

1
223
H2X
NMAH

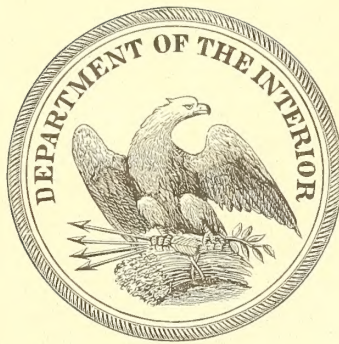
ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR THE YEAR

1915



WASHINGTON
GOVERNMENT PRINTING OFFICE

1916

REPORT

OF THE

COMMISSIONER OF PATENTS

TO CONGRESS

FOR THE YEAR ENDED DECEMBER 31, 1915.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 31, 1916.

*To the Senate and House of Representatives of the
United States of America in Congress assembled:*

In compliance with section 494 of the Revised Statutes I have the honor to submit the following report of the business of the Patent Office for the year ended December 31, 1915:

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:	
Cash received	\$1,969,048.65
Cash refunded	7,312.31
Net cash	1,961,736.34
Certificates of deposit	60,405.00
Total cash and certificates	2,022,141.34
Copies:	
Cash received	213,043.44
Cash refunded	3,256.96
Net cash	209,786.48
Certificates of deposit	1,259.10
Total cash and certificates	211,045.58
Recording assignments:	
Cash received	32,627.05
Cash refunded	1,362.75
Net cash	31,264.30
Certificates of deposit	155.00
Total cash and certificates	31,419.30
Registration of prints and labels:	
Cash received	8,753.00
Cash refunded	504.00
Net cash	8,249.00
Certificates of deposit	54.00
Total cash and certificates	8,303.00
Court costs:	
Cash received	85.90
Cash refunded	
Net cash	85.90
Certificates of deposit	
Total cash and certificates	85.90
Aggregates.	
Cash received	2,223,558.04
Cash refunded	12,436.02
Net cash	2,211,122.02
Certificates of deposit	61,873.10
Total cash and certificates	2,272,995.12
Receipts from sale of Official Gazette and other publications through Government Printing Office	17,778.35
Grand total	2,290,773.47

EXPENDITURES.

Amounts expended under the several appropriations from January 1 to December 31, 1915.

Salaries	\$1,313,924.75
Scientific library	3,105.06
International Union for Protection of Industrial Property	655.62
Stationery	10,221.24
Postage on foreign matter	1,039.00
Furniture, carpets, ice, telephones, washing towels, and sundries	23,977.99
Photolithographing:	
Current issue	49,037.26
Reproductions	51,244.96
Photographic copies	3,996.28
Photostat supplies	3,988.47
Foreign patents	15,136.00
Printing and binding:	
Official Gazette, with indexes	157,840.44
Specifications	392,078.83
Miscellaneous	26,834.99
Defending suits	361.26
Total	2,053,442.15

RECEIPTS AND EXPENDITURES.

Receipts from all sources	\$2,290,773.47
Expenditures	2,053,442.15
Surplus	237,331.32

Surplus earnings of the Patent Office, deposited in the Treasury of the United States.

Amount of total net surplus in Treasury, Jan. 1, 1915	\$7,548,175.16
Net surplus for the year 1915	237,331.32
Total net surplus, Dec. 31, 1915	7,785,506.48

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Applications for patents for inventions	67,138
Applications for patents for designs	2,734
Applications for reissues of patents	197
Total	70,069
Applications for registration of trade-marks	8,432
Applications for registration of labels	982
Applications for registration of prints	486
Disclaimers filed	25
Appeals on the merits	2,021
Total	11,946
Patents issued, excluding designs	43,207
Design patents issued	1,545
Patents reissued	182
Total	44,934
Trade-marks registered	6,262
Labels registered	803
Prints registered	371
Total	7,436
Patents expired during the year	20,404
Applications forfeited for nonpayment of final fees	11,331
Applications allowed, awaiting final fees	18,943
Trade-mark applications passed for publication	6,247

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States.	Patents and designs.	One to every—	States.	Patents and designs.	One to every—
Alabama.....	203	10,532	North Carolina.....	177	12,465
Arizona.....	77	2,654	North Dakota.....	161	3,584
Arkansas.....	135	11,662	Ohio.....	2,999	1,590
California.....	1,943	1,224	Oklahoma.....	286	5,794
Colorado.....	475	1,682	Oregon.....	315	2,136
Connecticut.....	1,129	987	Pennsylvania.....	3,941	1,945
Delaware.....	74	2,734	Rhode Island.....	301	1,803
Florida.....	141	5,327	South Carolina.....	90	16,838
Georgia.....	234	11,150	South Dakota.....	163	3,582
Idaho.....	104	3,131	Tennessee.....	240	9,103
Illinois.....	4,517	1,248	Texas.....	630	6,185
Indiana.....	955	2,828	Utah.....	146	2,557
Iowa.....	714	3,116	Vermont.....	98	3,632
Kansas.....	449	3,766	Virginia.....	334	6,172
Kentucky.....	293	7,815	Washington.....	663	1,722
Louisiana.....	191	8,672	West Virginia.....	266	4,591
Maine.....	166	4,472	Wisconsin.....	1,084	2,153
Maryland.....	379	3,418	Wyoming.....	48	3,041
Massachusetts.....	2,693	1,250			
Michigan.....	1,585	1,773	Alaska.....	8	8,044
Minnesota.....	779	2,665	Canal Zone.....	6	
Mississippi.....	103	17,447	District of Columbia.....	300	1,104
Missouri.....	1,180	2,791	Hawaii.....	24	7,996
Montana.....	189	1,990	Philippine Islands.....	14	545,387
Nebraska.....	346	3,446	Porto Rico.....	4	279,503
Nevada.....	41	1,997	United States Army.....	2	
New Hampshire.....	153	2,814	United States Navy.....	18	
New Jersey.....	2,129	1,192	United States Cutter Service.....	1	
New Mexico.....	50	6,546			
New York.....	6,575	1,386	Total.....	140,321	

¹ Not including 182 reissues, 1 patent without residence, and 96 patents withdrawn.

Patents granted to residents of foreign countries.

Argentina.....	19	France.....	340	New South Wales.....	38	Switzerland.....	129
Austria-Hungary.....	136	French Indo-China.....	1	New Zealand.....	44	Tasmania.....	1
Belgium.....	46	Germany.....	1,209	Norway.....	38	Transvaal.....	12
Bermuda.....	1	Greece.....	7	Peru.....	1	Turkey.....	1
Brazil.....	5	Guatemala.....	1	Queensland.....	3	Uruguay.....	1
Bulgaria.....	1	Honduras.....	1	Roumania.....	1	Venezuela.....	1
Canada.....	706	India.....	6	Russia.....	22	Victoria.....	53
Chile.....	1	Ireland.....	20	Salvador.....	2	Wales.....	14
China.....	3	Isle of Jersey.....	3	Scotland.....	81	West Australia.....	14
Cuba.....	18	Italy.....	83	South Africa.....	5		
Denmark.....	36	Japan.....	10	South Australia.....	8	Total.....	4,334
Dutch West Indies.....	1	Mexico.....	17	Spain.....	3		
England.....	1,069	Netherlands.....	30	Straits Settlements.....	2		
Finland.....	1	Newfoundland.....	2	Sweden.....	93		

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836, and exhibit in detail the business of the Office during the last calendar year:

Comparative statement of the business of the Office from 1837 to 1915, inclusive.

Year.	Applica-tions. ¹	Caveats filed. ²	Patents and re-issues.	Cash received.	Cash expended.	Surplus.
1837.....			435	\$29,289.08	\$33,506.98	
1838.....			520	42,123.54	37,338.92	\$4,784.62
1839.....			425	38,019.97	34,543.51	3,476.46
1840.....	765	228	473	38,056.51	39,020.67	
1841.....	847	312	495	40,413.01	52,666.87	
1842.....	761	291	517	36,505.63	31,241.43	5,264.20
1843.....	819	315	519	35,315.81	30,776.96	4,538.85
1844.....	1,045	380	497	42,509.26	36,344.53	6,164.73
1845.....	1,246	452	503	51,076.14	39,395.65	11,680.49
1846.....	1,272	448	638	50,264.16	46,158.71	4,105.45
1847.....	1,531	533	569	63,111.19	41,878.35	21,232.84
1848.....	1,628	607	653	67,576.69	58,905.84	8,670.85
1849.....	1,955	595	1,077	80,752.78	77,716.44	3,036.34
1850.....	2,193	602	993	86,927.05	80,100.95	6,826.10
1851.....	2,258	760	872	95,738.61	86,916.93	8,821.68
1852.....	2,639	996	1,019	112,056.34	95,916.91	16,139.43
1853.....	2,673	901	961	121,527.45	132,869.83	
1854.....	3,324	868	1,844	163,789.84	167,146.32	
1855.....	4,435	906	2,013	216,459.35	179,540.33	36,919.02
1856.....	4,960	1,024	2,505	192,588.02	199,931.02	
1857.....	4,771	1,010	2,896	196,132.01	211,582.09	
1858.....	5,364	943	3,710	203,716.16	193,193.74	10,522.42
1859.....	6,225	1,079	4,538	245,942.15	210,278.41	35,663.74
1860.....	7,653	1,084	4,819	256,352.59	252,820.80	3,531.79
1861.....	4,643	700	3,340	137,354.44	221,491.91	
1862.....	5,038	824	3,521	215,754.99	182,810.39	32,944.06
1863.....	6,014	787	4,170	195,593.29	189,414.14	6,179.15
1864.....	6,972	1,063	5,020	240,919.98	229,868.00	11,051.98
1865.....	10,664	1,932	6,616	348,791.84	274,199.34	74,592.50
1866.....	15,269	2,723	9,450	495,665.38	361,724.28	133,941.10

Comparative statement of the business of the Office from 1837 to 1915, inclusive—Continued.

Year.	Applica- tions. ¹	Caveats filed. ²	Patents and re- issues.	Cash received.	Cash ex- pended.	Surplus.
1867	21, 276	3, 597	13, 015	\$646, 581.92	\$639, 263.32	\$7, 318.60
1868	20, 445	3, 705	13, 378	681, 565.86	628, 679.77	52, 886.09
1869	19, 271	3, 624	13, 986	693, 145.81	486, 430.74	206, 715.07
1870	19, 171	3, 273	13, 321	669, 456.76	557, 147.19	112, 309.57
1871	19, 472	3, 366	13, 033	678, 716.46	562, 091.64	116, 624.82
1872	18, 246	3, 090	13, 590	699, 726.39	665, 595.00	34, 131.39
1873	20, 414	3, 248	12, 864	703, 191.77	691, 178.98	12, 012.79
1874	21, 602	3, 181	13, 599	738, 278.17	679, 288.41	58, 959.76
1875	21, 638	3, 094	14, 837	743, 453.36	721, 657.71	21, 795.65
1876	21, 425	2, 697	15, 595	757, 987.65	652, 542.60	105, 445.05
1877	20, 308	2, 809	14, 187	732, 342.85	613, 152.62	119, 190.23
1878	20, 260	2, 755	13, 444	725, 375.55	593, 082.89	132, 292.66
1879	20, 059	2, 620	13, 213	703, 931.47	529, 638.97	174, 292.50
1880	23, 012	2, 490	13, 947	749, 685.32	538, 865.17	210, 820.15
1881	26, 059	2, 406	16, 584	853, 665.89	605, 173.28	248, 492.61
1882	31, 522	2, 553	19, 267	1, 009, 219.45	683, 867.67	325, 351.78
1883	34, 576	2, 741	22, 383	1, 146, 240.00	675, 234.86	471, 005.14
1884	35, 600	2, 582	20, 413	1, 075, 798.80	970, 579.76	105, 219.04
1885	35, 717	2, 552	24, 233	1, 188, 089.15	1, 024, 378.85	163, 710.30
1886	35, 968	2, 513	22, 508	1, 154, 551.40	992, 503.45	162, 047.95
1887	35, 613	2, 622	21, 477	1, 144, 509.60	994, 472.22	150, 037.38
1888	35, 797	2, 251	20, 506	1, 118, 516.10	973, 108.78	145, 407.32
1889	40, 575	2, 481	24, 158	1, 281, 728.05	1, 052, 955.96	228, 772.09
1890	41, 048	2, 311	26, 292	1, 340, 372.66	1, 099, 297.74	241, 074.92
1891	40, 552	2, 408	23, 244	1, 271, 285.78	1, 139, 713.35	131, 572.43
1892	40, 753	2, 290	23, 559	1, 286, 331.88	1, 110, 739.24	175, 592.69
1893	38, 473	2, 247	23, 769	1, 242, 871.64	1, 141, 038.45	101, 833.19
1894	38, 439	2, 286	20, 867	1, 187, 439.58	1, 100, 047.12	87, 392.46
1895	40, 680	2, 415	22, 057	1, 245, 246.93	1, 106, 389.49	138, 857.44
1896	43, 982	2, 271	23, 373	1, 324, 059.83	1, 113, 413.71	210, 646.12
1897	47, 905	2, 176	23, 794	1, 375, 641.72	1, 122, 843.13	252, 798.59
1898	35, 842	1, 659	22, 267	1, 137, 734.48	1, 136, 196.20	1, 538.28
1899	41, 443	1, 716	25, 527	1, 325, 457.03	1, 211, 783.73	113, 673.30
1900	41, 980	1, 731	26, 499	1, 350, 828.53	1, 260, 019.62	90, 808.91
1901	46, 449	1, 842	27, 373	1, 449, 398.16	1, 297, 385.64	152, 012.52
1902	49, 641	1, 851	27, 886	1, 552, 859.08	1, 393, 345.54	159, 513.54
1903	50, 213	1, 771	31, 699	1, 642, 201.81	1, 448, 645.81	193, 156.00
1904	52, 143	1, 808	30, 934	1, 657, 326.53	1, 476, 000.38	181, 326.15
1905	54, 971	1, 896	30, 399	1, 806, 758.14	1, 479, 633.22	327, 124.92
1906	56, 482	1, 885	31, 965	1, 790, 921.38	1, 554, 891.20	236, 0

¹ Including patents, designs, and reissues.

² Caveat law repealed June 25, 1910.

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark, label, and print issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-marks.	Labels.	Prints.	Patents	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Prints.	Total certifi- cates.
1836 (July 28)	1						109							
1837	110						436							
1838	546						515							
1839	1,061		1				404		6					
1840	1,465		7				405		13					
1841	1,923		20				458		10					
1842	2,413		30				490		6					
1843	2,901		36				488		13					
1844	3,395	1	49				494	14	11	519				
1845	3,873	15	60				478	12	7	497				
1846	4,348	27	67				475	17	11	503				
1847	4,914	44	78				566	59	13	638				
1848	5,409	103	91				495	60	14	569				
1849	5,993	163	105				584	46	23	653				
1850	6,981	209	128				988	49	30	1,067				
1851	7,865	258	158				884	83	26	993				
1852	8,622	341	184				757	90	25	872				
1853	9,512	431	209				890	109	20	1,019				
1854	10,358	540	229				846	86	29	961				
1855	12,117	626	258				1,759	57	28	1,844				
1856	14,009	683	286				1,892	70	51	2,013				
		753	337				2,315	107	83	2,505				

Statement showing the number of the first patent, design patent, and reissue patent, etc.—Continued.

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Prints.	Total certificates.
1857.....	16,324	860	420				2,686	113	97	2,896				
1858.....	19,010	973	517				3,467	102	126	3,695				
1859.....	22,477	1,075	643				4,165	108	231	4,504				
1860.....	26,642	1,183	674				4,363	183	232	4,778				
1861.....	31,005	1,366	1,106				3,040	142	147	3,329				
1862.....	34,045	1,508	1,253				3,221	195	116	3,532				
1863.....	37,266	1,703	1,369				3,781	176	227	4,184				
1864.....	41,047	1,879	1,596				4,638	139	248	5,025				
1865.....	45,685	2,018	1,844				6,099	221	296	6,616				
1866.....	51,784	2,239	2,140				8,874	294	290	9,458				
1867.....	60,658	2,533	2,430				12,301	325	400	13,026				
1868.....	72,959	2,858	2,830				12,544	446	420	13,410				
1869.....	85,503	3,304	3,250				12,957	506	534	13,997				
1870.....	98,460	3,810	3,784				12,157	737	439	13,333	121			121
1871.....	110,617	4,547	4,223	122			11,687	905	464	13,056	486			486
1872.....	122,304	5,452	4,687	608			12,200	884	529	13,613	491			491
1873.....	134,504	6,336	5,216	1,099			11,616	747	501	12,864	492			492
1874.....	146,120	7,083	5,717	1,591	1		12,230	886	483	13,599	559	232		791
1875.....	158,350	7,969	6,200	2,150	233		13,291	915	631	14,837	1,138	232		1,370
1876.....	171,641	8,884	6,831	3,283	465		14,172	802	621	15,595	1,959	472		1,431
1877.....	185,813	9,686	7,452	4,247	937		12,920	699	568	14,187	1,216	392		1,608
1878.....	198,733	10,385	8,020	5,463	1,329		12,345	590	509	13,444	1,455	492		1,947
1879.....	211,078	10,975	8,529	6,918	1,821		12,133	592	488	13,213	872	355		1,227
1880.....	223,211	11,567	9,017	7,790	2,176		12,926	515	506	13,947	349	203		552
1881.....	236,137	12,082	9,523	8,139	2,379		15,548	565	471	16,584	834	202		1,036
1882.....	251,685	12,647	9,994	8,973	2,581		18,135	861	271	19,267	947	304		1,251
1883.....	269,820	13,508	10,265	9,920	2,885		21,196	1,020	167	22,383	902	906		1,808
1884.....	291,016	14,528	10,432	10,822	3,791		19,147	1,150	116	20,413	1,021	513		1,534
1885.....	310,163	15,678	10,548	11,843	4,304		23,331	773	129	24,233	1,067	391		1,458
1886.....	333,494	16,451	10,677	12,910	4,695		21,797	595	116	22,508	1,029	378		1,407
1887.....	355,291	17,046	10,793	13,939	5,073		20,429	949	99	21,477	1,133	380		1,513
1888.....	375,720	17,995	10,892	15,072	5,453		19,585	835	86	20,506	1,059	327		1,386
1889.....	395,305	18,830	10,978	16,131	5,780		23,360	723	75	24,158	1,229	319		1,548
1890.....	418,665	19,553	11,053	17,360	6,099		25,322	886	84	26,292	1,415	304		1,719
1891.....	443,987	20,439	11,137	18,475	6,403		22,328	836	80	23,244	1,762	137		1,899
1892.....	466,315	21,275	11,217	20,537	6,540		22,661	817	81	23,559	1,737	16		1,743
1893.....	488,976	22,092	11,298	22,274	None.	1	22,768	902	99	23,769	1,677	None.	2	1,679
1894.....	511,744	22,994	11,397	23,951	None.	3	19,875	928	64	20,857	1,806	None.	4	1,810
1895.....	531,619	23,922	11,461	25,757	None.	7	20,883	1,115	59	22,057	1,829	None.	3	1,832
1896.....	552,502	25,037	11,520	27,586	6,546	10	21,867	1,445	61	23,273	1,813	1	32	1,846
1897.....	574,369	26,482	11,581	29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16	1,701
1898.....	596,467	28,113	11,646	31,070	6,561	58	20,404	1,803	60	22,267	1,238	200	35	1,773
1899.....	616,871	29,916	11,706	32,308	6,761	93	23,296	2,139	92	25,527	1,649	511	100	2,260
1900.....	640,167	32,055	11,798	33,957	7,272	193	24,660	1,758	81	26,499	1,721	737	93	2,551
1901.....	664,827	33,813	11,879	35,678	8,009	286	25,558	1,734	81	27,373	1,928	878	159	2,965
1902.....	690,385	35,547	11,960	37,606	8,887	445	27,136	1,734	110	27,886	2,006	767	158	2,931
1903.....	717,521	36,187	12,070	39,612	9,654	603	31,046	1,734	110	31,699	2,186	990	270	3,446
1904.....	748,567	36,723	12,189	41,798	10,644	873	30,267	1,734	110	30,934	2,158	1,114	297	3,569
1905.....	778,834	37,280	12,299	43,956	11,758	1,170	29,784	1,734	110	30,399	4,490	830	359	5,679
1906.....	808,618	37,766	12,428	46,446	12,588	1,529	31,181	1,734	110	31,965	10,568	709	656	11,933
1907.....	839,799	38,391	12,587	49,014	13,297	1,874	35,880	1,734	110	36,620	7,878	667	315	8,860
1908.....	875,679	38,980	12,738	51,892	14,064	2,189	32,757	1,734	110	33,682	5,191	618	220	6,029
1909.....	908,436	39,737	12,906	54,882	14,852	2,409	36,574	1,734	110	37,421	4,184	492	148	4,824
1910.....	945,010	40,424	13,066	57,867	15,074	2,557	35,168	1,734	110	35,930	4,239	370	120	4,729
1911.....	980,178	41,063	13,189	60,505	15,444	2,677	32,917	1,734	110	34,084	4,205	659	248	5,112
1912.....	1,013,095	42,073	13,346	64,711	16,103	2,925	36,231	1,734	110	37,731	5,020	633	243	5,896
1913.....	1,049,326	43,415	13,504	69,731	16,736	3,168	33,941	1,734	110	35,788	5,065	708	290	6,063
1914.....	1,083,267	45,098	13,668	74,796	17,444	3,458	39,945	1,734	110	41,850	6,817	719	338	7,874
1915.....	1,123,212	46,813	13,858	80,613	18,163	3,796	43,207	1,545	182	44,934	6,262	803	371	7,436

¹ Registration of labels practically suspended May 27, 1891, under decision of the United States Supreme Court in *Higgins et al. v. Keuffel et al.* (55 O. G., 1139) with the registration No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

Expenditures for photolithographic and photographic work since 1912-13.

Fiscal year.	Contractor.	Price per page.			Total.
		Current issue.	Reproduction of exhausted copies, etc.	Photographic copies.	
1912-1913.....	Columbia Planograph Co.....	{ ¹ \$0.63 2.50 }	{ ³ \$0.52 4.60 }	{ ⁶ \$0.09 5.10 }	\$140,000
	Sackett & Wilhelms Co.....				
	F. W. Ernst.....				
1913-1914.....	Columbia Planograph Co.....	{ ¹ 57½¢ 7.48 }	{ 4.57 3.47 }	{ 9.078 5.078 }	140,000
	Sackett & Wilhelms Co.....				
	Leet Bros.....				
	Norris Peters Co.....	{ ¹ 64¢ 7.50 }			
1914-1915.....	A. J. Imgram.....		{ ³ 40½¢ 4.50 }		140,000
	Commercial Photo Co.....			{ 6.064 5.067 }	
	Leet Bros.....				
	Webb & Bocrorselski.....		8.42		
	Columbia Planograph Co.....	1.61, 50¢ 7.49			
1915-1916.....	The Norris Peters Co.....				140,000
	A. J. Imgram.....		{ 3.39 4.49 }		
	Commercial Photo Co.....			{ 6.056 5.06 }	
	Webb & Bocrorselski.....		8.40		

¹ For 100 thin, 2 thick, and 1 bond copies.² For 50 thin, 2 thick, and 1 bond copies of trade-marks and designs.³ For 50 copies each, mechanical and design patents and trade-marks.⁴ For 100 copies each, mechanical and design patents and trade-marks.⁵ Size, 10 by 15 in.⁶ Size, 8 by 12½ in.⁷ For 50 thin, 2 thick, and 1 bond copies of designs.⁸ For 2 copies of drawings of foreign patents.⁹ Estimated.*Number of patents issued by the United States to December 31, 1915, and by foreign countries to December 31, 1914.*

Countries.	To 1870, inclusive.	1871 to 1914.	Total.	Countries.	To 1870, inclusive.	1871 to 1914.	Total.
Argentina ¹	83	13,009	13,092	Mexico ²	22	13,199	13,221
Australia.....		15,676	15,676	Netherlands.....	4,535	455	4,990
Austria.....		86,392	86,392	Newfoundland.....		40	495
Austria-Hungary.....	15,350	67,583	82,933	New South Wales.....	236	11,740	11,976
Bahamas ¹		2	2	New Zealand.....	109	16,702	16,811
Barbados ¹		151	151	Norway.....	737	26,179	26,916
Belgium ²	35,044	236,000	271,044	Paraguay.....		102	102
Bolivia.....	42	65	107	Peru ¹		160	160
Brazil ¹	185	8,885	9,070	Portugal.....	245	8,537	8,782
British Guiana.....	32	94	126	Queensland.....	67	6,368	6,435
British Honduras.....		1	20	Russia ²	1,464	30,844	32,308
Canada.....	4,081	159,167	163,248	St. Helena ¹		4	4
Ceylon ¹	58	809	867	South African Republic.....		1,262	1,262
Chile.....	266	2,696	2,962	South Australia.....	123	6,221	6,344
Colombia ¹		1,067	1,067	Spain.....		54,390	54,390
Congo Free States ¹		284	284	Straits Settlements.....		338	338
Costa Rica ¹		72	72	Sweden.....	1,629	39,789	41,418
Cuba.....		1,994	1,994	Switzerland.....		68,282	68,282
Denmark.....	464	26,778	27,242	Tasmania.....	43	2,426	2,469
Ecuador.....		10	10	Trinidad.....	6	262	268
Fiji Islands ²		47	47	Tunis ¹		1,081	1,081
Finland.....	112	5,250	5,362	Turkey ¹		2,560	2,560
France.....	103,934	399,458	503,392	Union South Africa.....		4,007	4,007
Germany.....	9,996	288,324	298,320	Uruguay ¹		455	455
Great Britain.....	53,408	440,099	493,507	Venezuela.....		295	295
Guatemala.....		57	57	Victoria.....	822	12,463	13,285
Hawaii.....		148	148	West Australia.....		3,524	3,524
Hongkong.....		235	235				
Hungary.....		61,688	61,688	Totals.....	238,437	2,305,659	2,544,096
India.....	445	13,210	13,655	United States.....	120,573	1,012,595	1,133,168
Italy and Sardinia.....	4,723	126,038	130,761				
Jamaica.....	22	250	272	Total to 1870.....	359,010		
Japan.....		27,016	27,016	Total, 1915.....		3,318,254	3,677,264
Leeward Islands.....		29	29	United States, 1915.....			43,207
Liberia.....		2	2				
Luxembourg ¹		10,498	10,498	Grand total, including 1915, U. S.....			3,720,471
Malta ¹		106	106				
Mauritius ¹	113	311	424				

¹ Estimated, no report received since before 1913.² No information at hand for 1914.

Number of applications pending December 31, 1915.

Year of filing.	Applica- tions filed.	Including all divisional applications and continuations, not in issue or forfeited.				
		Dec. 31, 1915.	15 years or longer.	10 years or longer.	5 years or longer.	2 years or longer.
Prior to 1901.....		29	29			
In 1901.....	43,973	6				
1902.....	48,320	14				
1903.....	49,289	16				
1904.....	51,168	45				
1905.....	54,034	73		183		
1906.....	65,471	125				
1907.....	57,679	188				
1908.....	60,143	265				
1909.....	64,408	529			2,646	
1910.....	63,293	1,356				
1911.....	67,370	3,916				
1912.....	68,968	6,961				
1913.....	68,117	13,648				26,171
1914.....	67,774	26,978				
1915.....	67,138	49,483				
Total.....		102,632				
In issue.....		22,449				
Forfeited.....		16,312				
Grand total.....		141,393				
Applications in interference and on appeal, included in above table.....		1,766	9	68	324	1,049

Comparison of pending applications by years.

	December 31, 1914.		December 31, 1915.	
Cases filed prior to.....	1900	37	1901	29
Cases filed in.....	1900	13	1901	6
Do.....	1901	17	1902	14
Do.....	1902	29	1903	16
Do.....	1903	60	1904	45
Do.....	1904	83	1905	73
Do.....	1905	141	1906	125
Do.....	1906	249	1907	188
Do.....	1907	454	1908	265
Do.....	1908	790	1909	529
Do.....	1909	1,748	1910	1,356
Do.....	1910	3,710	1911	2,916
Do.....	1911	7,498	1912	6,961
Do.....	1912	15,203	1913	13,648
Do.....	1913	28,867	1914	26,978
Do.....	1914	50,947	1915	49,483
Totals.....	109,846		102,632	

Attention is invited to the following comparisons:

Number of applications pending fifteen years or longer:	
January 1, 1912.....	59
January 15, 1914.....	84
June 30, 1914.....	52
December 31, 1914.....	37
December 31, 1915.....	29
Number of applications pending ten years or longer:	
January 1, 1912.....	289
June 30, 1914.....	241
December 31, 1914.....	239
December 31, 1915.....	183
Number of applications pending eight years or longer:	
June 1, 1914.....	799
December 31, 1914.....	629
December 31, 1915.....	419
Number of applications pending five years or longer:	
January 1, 1912.....	4,296
June 30, 1914.....	4,231
December 31, 1914.....	3,621
December 31, 1915.....	2,646
Number of applications pending two years or longer:	
June 30, 1914.....	31,677
December 31, 1914.....	30,032
December 31, 1915.....	26,171
Total number pending not in issue or forfeited:	
January 1, 1912.....	108,126
June 30, 1914.....	116,832
December 31, 1914.....	109,846
December 31, 1915.....	102,632

Number of applications in issue:

January 1, 1912.....	11,804
June 30, 1914.....	22,623
December 31, 1914.....	22,613
December 31, 1915.....	22,449
Total number pending, not including forfeited applications:	
January 1, 1912.....	119,930
June 30, 1914.....	139,455
December 31, 1914.....	132,459
December 31, 1915.....	125,081

Allowances and publications.

	1914.	1915.	Decrease.
Patents.....	56,469	54,944	1,525
Reissues.....	172	169	3
Designs.....	1,612	1,569	43
Trade-marks.....	7,463	5,691	1,772
Labels.....	728	810	182
Prints.....	327	371	44
Totals.....	66,771	63,554	3,217

¹ Increase.

Patents and certifications issued.

	1914.	1915.	Increase.
Patents.....	39,945	43,207	3,262
Reissues.....	190	182	8
Designs.....	1,715	1,545	170
Trade-marks.....	6,817	6,262	555
Labels.....	719	803	84
Prints.....	338	371	33
Totals.....	49,724	52,370	2,646

¹ Decrease.

OTHER DETAILS OF BUSINESS.

During the year a total of 70,069 applications for patents, reissues of patents, and designs and 187,366 amendments in pending applications for patent were filed. The number of amendments filed shows a reduction from last year of 18,960. This is, doubtless, one result of the effort to make thorough actions. The reduction in the number of amendments which

follows the complete disposition of applications lightens the work, and, it is hoped, will make it possible to bring the work more nearly up to date. The reduction effected during the past year has required 69,043 actions on new cases and 188,721 actions on amended cases. The total number of actions was 257,764. Counting the members of the examining corps, excluding those who are assigned to other work, but including the Primary Examiners, this amounts to fourteen actions per week per member of the corps throughout the year. The weekly average of actions on new cases was 1,328 and on amended cases 3,629, making the total average weekly actions 4,957. The number of letters recorded, constituting the general correspondence of the Office, was 285,102, an increase of 8,401 over the work of the preceding year. In addition to this 51,346 letters of inquiry were returned with circulars of information answering the questions propounded. The fees received by mail and express amounted to \$1,332,088.95, and the fees paid by hand to the Financial Clerk amounted to \$891,469.09. There were received 12,644 pieces of registered mail and 4,149 express parcels.

During the year 1,401 applications previously allowed and forfeited for non-payment of the final fee within the time allowed by law were renewed, and 6,968 cases previously allowed and forfeited were abandoned on account of failure to renew. The number of cases abandoned within the year by reason of failure to further prosecute was 20,779. The total abandonments were 27,747.

In the Drafting Division, 1,051 drawings were made for inventors, who paid \$3,768 therefor, and 7,247 drawings, previously filed, were corrected at the request of the inventors, for which the Office received \$6,502.05. Nine tracings were made at a cost of \$14.00. A total of \$10,284.05 was received as fees for work by the Drafting Division. In addition to this 39 drawings, having a value of \$205.50, were made for the use of the Office, and 4,171 drawings were corrected as to minor features without charge to inventors.

In the Assignment Division 28,714 deeds, transferring title to patents, etc., containing 13,071,250 words and averaging 455 words per deed, were recorded, for which the Office received \$48,502.30. In addition to this the Assignment Division prepared 1,350 abstracts of title, for which fees amounting to \$1,959.45 were paid. The total earnings of the Assignment Division were \$50,461.75, although the table on page 1 of this report shows the receipt of only \$31,419.30 by this division. The difference in these amounts covers work charged to miscellaneous deposit accounts, which are entered under the general head "Moneys received for copies."

Type-written copies of records to the extent of 26,424,000 words were furnished, and other copies containing 3,469,400 words made by outsiders were compared and certified by the Office. For the whole of this work \$29,893.40 was paid. For the certificates attached to such of these copies as were certified the Office received \$1,162.00.

Inventors and attorneys were furnished with 50,378 photographic copies of drawings, 8 x 12½, at fifteen cents each, and 5,066 photographic copies, 10 x 15, at twenty-five cents each; also, 31,236 small-sized photostat copies at fifteen cents each, and 37,911 large-sized photostat copies at twenty-five cents each. The amounts received for these photographic and photostat copies were \$8,823.20 and \$14,163.15, respectively. In addition 10,696 small-sized photostat copies were made for the use of the Office. The expenditures during the year on account of supplies for the photostat machine were \$3,988.47.

Printed copies of the specifications and drawings of patents to the number of 2,764,921 were sold at five cents each, bringing into the Office on this account \$123,613.40 in cash and coupons to the value of \$14,632.65, sold in previous years. Copies to the number of 1,103,470 were shipped to foreign countries in exchange, and 160,502 were drawn for Office use.

CONDITION OF THE WORK IN THE OFFICE.

If the business of the Office be considered with reference to the average time of pendency of applications, the showing as to promptness is satisfactory. The average time that applications upon which patents are granted are in the Office is only about twenty-two months, and ninety-seven per cent. of all applications are disposed of within five years; but, since important patents are frequently unduly delayed, the proper way to handle the business is to enforce the prosecution of all applications as rapidly as is reasonably possible. One of the Law Examiners is assigned to this particular duty. That the work is being done, and with fair success, is shown by the reductions indicated in the foregoing comparative table of distribution of applications by the years in which they were filed as of January 1, 1916, and January 1, 1915, respectively. Every year shows a decrease. The total decrease in the number of applications pending in the examining divisions or on appeal, omitting allowed and forfeited applications, is 7,214 applications. After making allowance for the slight falling off of applications this year there remains a net gain of 6,578 applications. Thus it appears that the Office completed its examination of almost ten per cent. more applications than it received during the year. This does not indicate that the corps is unnecessarily large. It is in pursuance of a definite policy to require prompt prosecution by applicants and their attorneys. This has brought up for final disposition many applications where heretofore dilatory proceedings have been resorted to.

The method by which the Office can force the prosecution of applications is to hold the applicant strictly to the rule requiring complete response to each Office action. If the response filed within a period of one year from the date of the Office action is not complete the Office may hold the application abandoned for lack of proper prosecution.

Now that the amendment work is substantially

up to date risk of having an application held abandoned for lack of proper prosecution can be entirely avoided by filing amendments six weeks or two months in advance of the expiration of the year. If the proposed amendment is not a complete response, the applicant will be notified, so that the response may be completed within the year. It is not the intention to suggest that the filing of amendments be delayed, but to urge that they be not delayed in any case to so near the end of the year that correction of defects cannot be made within the statutory period of one year.

The number of applications awaiting official action January 1, 1916, compared with January 1, 1915, is less both in new applications and in applications which have been acted upon and amended. The total reduction is 3,270 applications. That this is a real gain and not the result of merely hasty actions is shown by the fact that the total number of applications pending before the Office, including applications in all stages short of abandonment, on January 1, 1916, was 3,513 less than the total number pending on January 1, 1915. On January 29, 1916, there were awaiting action by the Office 17,591 applications. At the present rate of reduction and continuing the policy of final disposition of applications without hasty actions the work can be brought up to date in about three years. It should be brought up to date and kept there, for when the Office is behind it is working at a disadvantage both to itself and to the public.

INTERFERENCES.

For approximately two years the practice has been followed of having all prospective interferences submitted to one of the Law Examiners before declaration thereof. From the first this practice has resulted in the correction of numerous inadvertencies and errors. Somewhat more than thirty per cent. of all interferences proposed have been wholly disapproved and six per cent. disapproved in part. As a consequence there has been a considerable reduction not only in the number of interferences, but also in the number of motions for dissolution of interferences.

Since the latter part of 1914 in cases where a difference of one year exists between the filing dates of pending applications found to disclose and claim common patentable subject-matter inquiry has been made of the junior applicant as to his claimed dates of conception, disclosure, and reduction to practice of the common subject-matter. When the response has revealed a date of conception subsequent to the filing date of the senior application, the junior party has been notified that no interference would be declared, but that the senior application would be allowed and when patented be cited as a reference against the junior party's application. This procedure has resulted in a still further and large reduction in the number of interferences declared; but application of it at present is suspended because of a mandamus respecting which an appeal is now pending before the Court of Appeals of the District of Columbia.

While it is not desired to argue in this report the legal questions involved, it seems proper to point out certain facts which have led to the adoption of the course which has been followed.

It was found by actual count of all interferences arising in one year which had been finally determined that where the difference between the filing dates exceeded one year the junior party was successful in less than six per cent. of the cases. This meant that the Office was trying out twenty cases for every one in which an outcome differed from what a judgment on the record would have effected. This disproportion seemed so large as to require that steps be taken to cut it down. Under the scheme adopted a letter has been written to the junior party asking his dates of invention, and interferences were of course declared in all cases where the junior party in his response set up dates showing that he could possibly overcome the filing date of the senior party. It was found that in about two-thirds of this class of cases the dates of conception alleged by the junior party did not go back of the filing date of the senior party, and the prospective interferences were never started.

Special care has been taken to avoid passing out any patents which a junior party in an interference might be able to show should not issue. The Law Examiner has fully discussed the art with the Primary Examiner, suggesting further search whenever this seemed to be advisable, and has also carefully considered all possible irregularities of prosecution of the applications.

Among the duties of the Patent Office the chief one would seem to be to grant a patent to an applicant entitled thereto as promptly and with as little cost and trouble to the applicant as may be possible. To hold him back in order to try out questions of priority which do not in fact exist and which the Office has only to inquire to find do not exist is to permit the processes of the Office to be used for purposes not set forth in the statutes. Such interferences have in the past been a fruitful source of oppression.

The ultimate purpose of all of the supervisory work discussed herein is to make better the conditions under which the work of examination is carried on. The prime function of the Office is to gather the appropriate known art and determine questions of patentability in view of it. The Examiner, if his opinion as to patentability is to be valuable, must know his art. His time should be kept free to study his art and to consider questions of patentability thoughtfully and thoroughly. It is therefore important that the examining corps be relieved of as many matters not essential to searching or passing upon patentability as is possible.

What the public needs from the Office more than anything else is good searches. Any member of the examining corps has an opportunity of wide usefulness. Any one who does not make the best searches of which he is capable, with the facilities provided, not only brings discredit and trouble upon the Office, but causes loss and disappointment

the extent of which cannot be estimated. In many cases it is so large as to be tragic, for inventors are prone to trust the favorable conclusions of the Office and soberly take grave risks in backing their inventions, which if taken in other enterprises would be recognized as risks which should be avoided as unwarranted.

But with the Office doing the best work of which it is capable it still would remain true, in my belief, that it would pay the public if twice as much money were spent in making it possible to make better searches. Great sums now wasted on needless litigation and fruitless enterprises would be saved. The resultant increase in refusal of patents would diminish the fees collected by the Office; but for all fees lost in this way far greater sums would be saved to the inventors and business interests of the country.

REQUIREMENT OF DIVISION.

One of the Law Examiners has been assigned to the work of passing upon requirements for division of applications.

The submission of final requirements for division to a Law Examiner has shown the existence of wide variations of practice among the Primary Examiners. Such divergence has been found particularly as to claims to a process, a product, and a machine, to an improved element and its combination with a machine, broadly stated, and to improvements in parts of an old machine and sub-combinations and elements thereof theoretically capable of use in other machines and other arts.

Care has been taken to avoid requirements of division which might result in the issuance to an applicant of two patents of doubtful validity over each other, as where a process and product or a process and machine are so intimately related as to make joinder advisable, or where the process can only be carried out by the machine, or the product only made by the process, or where they are stated in the same or like terms.

The necessity of classification, so that the statutory examination can be made, has been borne in mind, and where process, product, or machine are of broader application and utility than with each other and the development of trade and invention have pointed to severance and the fields of search have become divergent divisions have been approved. Division is not believed proper where the result might be issuance of two patents resting on the same patentable novelty. Division in such cases is not the appropriate action. Division has been approved as to elements, parts, and subcombinations of a machine where they are clearly separable in structure and function from the other parts of the machine, are capable of use in other relations, and when the course and development of trade and invention has pointed them out as severable. In such cases Office classification indicates and follows a natural development. Where such a development has not taken place, it is not thought necessary for the Office to anticipate the development. A mere theoretical independence of intellectual conception

or of possible use is not believed sufficient in itself to warrant division.

Of the requirements formally submitted to the Law Examiner since September 1, 1915, for approval for final action, forty-two per cent. have been disapproved.

CLASSIFICATION.

During the year 1915 eight classes, containing 17,500 patents, have been revised, fully defined, and published as additional revised classes. Six others, containing 8,200 patents, have been established, subdivided, and published, but without definitions. Eight others, including about 30,000 patents, have been substantially completed by the classifiers and await approval, final revision, and the necessary clerical work to make them available for use. Two hundred and two new subclasses have been created and established in classes already existing.

Estimating that 21,000 of the patents granted in 1915 went into previously-defined classes and adding the 17,500 patents in the newly-defined classes, the number of patents in revised classes with published definitions increased by 38,500. This addition is estimated to bring the number of patents in defined classes, allowing a percentage for partially completed classes, to be defined, up to approximately 576,000. The whole number of published classes is now 262, of which 130 have published class and subclass definitions, copious cross references, and search notes.

At the rate of progress measured by the completed assignment of patents to classes indicated above the classification of all of the patents could not be accomplished under thirty years.

In the work of revising and defining utilization of Examiners having detailed knowledge of the particular subject-matter to be classified is of undoubted advantage when that knowledge is applied in coöperation with an Examiner having some practice and skill in the theory of classification and able to keep in mind the relationships of all the arts. The difficulty of utilizing men in the examining divisions when those divisions are doing their best to keep the examining work up to date has been great. In view of the high pressure required to keep up the work of examination classification has been carried on in some divisions with many interruptions and in others has had to be completely dropped. Examiners employing all their time on examination cannot be utilized to study the relationship of their particular classes to others. In those divisions that have been able to give some time and work in willing coöperation with a classifier good results have followed.

It is hoped that such increase in the examining corps may be obtained in the near future that in each division having unrevised classes at least one man with some knowledge of the arts of that division may be utilized continuously for classification purposes in coöperation with a man from the division devoted to classification. At the present time some of the classifiers are endeavoring to supervise work in more than one division, and present experience indicates that this is practicable. More-

over, there is a large amount of clerical work which must be provided for and which with the present clerical force the Office cannot perform.

TRADE-MARK DIVISION.

The Trade-Mark Division of designs and trade-marks examines applications for patents for designs, applications for registration of trade-marks, and applications for registration of prints and labels. The work in this division has steadily increased. As the reference files constantly grow larger and the number of applications filed is constantly increasing the force provided is unable to keep pace with the work and is gradually falling farther and farther behind. This is bad both for the Office and for the commercial public. Applicants are compelled to wait for long periods of time before the first action can be made by the Office, and after response to the Office action is made by the applicant the congestion of the work necessitates another delay on the part of the Office.

I am asking Congress to provide one additional First Assistant and four Second Assistant Examiners for the Trade-Mark Division, so that the important work gradually piling up in the division may be properly disposed of within a reasonable time after its receipt.

EXCHANGE OF PATENT COPIES WITH CANADA.

A joint resolution of Congress approved January 14, 1915, authorized an exchange of copies of patents with the Canadian Patent Office. Copies of all patents issued since October 7, 1913, have been forwarded to the Canadian Patent Office; but on account of the lack of available force in the Patent Office and the pressure of current work it has up to this time been impossible to draw from the files a set of copies earlier than the date mentioned. I hope, however, to be able to complete this work within the near future.

THE PANAMA-PACIFIC EXPOSITION.

Operation of the act of September 18, 1913.

In obedience to the act of September 18, 1913, known as the "Kahn Act," an office was established at San Francisco, California, on July 1, 1914, under the joint direction of the Commissioner of Patents and the Register of Copyrights.

Including informal and incomplete applications eighteen applicants presented themselves asking for Certificates of Proprietorship for the Patent Office. Four of these applications involved foreign mechanical patents distributed as follows: one English; one Canadian; two French.

The two French applications were found to be incomplete and were subsequently withdrawn by the applicants.

The English applicants have not yet complied with the requirements of the Patent Office.

The remaining fourteen applications involved French trade-marks. At the time of presentation all of these were informal and incomplete and were returned to the applicants for completion in accordance with the requirements of the Office. Two were never returned. One was returned with require-

ments complied with and the certificate has been issued. The eleven remaining applications were returned after December 4, 1915, the date upon which the branch office became non-existent by law, and were refused on the ground that the applications were too late.

It is evident from the showing that the disposition of foreign exhibitors at the Panama-Pacific International Exposition to take advantage of the provisions of the act was so slight as to be practically negligible.

The cost of maintaining the branch Patent Office at San Francisco, as required by law, from July 1, 1914, until the close of the exposition was \$1,304.45. The amount appropriated for this purpose was \$15,000, and the balance of \$13,695.55 remains unexpended. To the expenditures for the maintenance of the branch Patent Office should be added \$1,800, the salary for one year to Mr. William Osborn, clerk in charge, detailed from the Patent Office, but paid from the regular appropriation for salaries.

RULES.

As stated in my last report, a committee was appointed to revise the Rules of Practice. Their recommendations were published in the OFFICIAL GAZETTE and further amendment was found advisable in view of suggestions received from a number of attorneys practising before this Office. The revised rules were, with the approval of the Secretary of the Interior, adopted to be effective January 1, 1916.

In the new rules the practice has been in many respects more clearly stated, and the procedure with reference to certain classes of appeals and in interferences has been simplified.

THE PATENT OFFICE BUILDING.

The crowded condition existing in this Office, which has frequently been called to the attention of Congress, is steadily growing worse. The patent copies kept for sale, to the number of about forty-seven millions, are scattered all over the Office. This fact increases enormously the difficulty of "pulling" them. Moreover, as they are stacked upon wooden shelves and are exposed, the danger of fire is very serious.

The new building for the use of the Department of the Interior now being erected in the square bounded by F, G, Eighteenth, and Nineteenth streets in all probability will be ready for occupancy near the end of the year. The removal of the offices of the Secretary of the Interior from the Patent Office Building and of the General Land Office from the building now occupied by it to the new building will enable the Patent Office to expand, and thus have relief from the congested conditions which in some parts of the Office have become almost unendurable.

There is no doubt that much could be done to increase the safety of the employees and property of this Office in case of fire. Moreover, when the new building for the Interior Department is completed and a large part of the Land Office Build-

ing, as is now contemplated, turned over to the Patent Office, it will require considerable remodeling to make the best use of the space available. I therefore ask Congress to appropriate \$2,500 for the preparation of plans, so that the work may be proceeded with as soon as the additional space is placed at our disposal.

SCIENTIFIC LIBRARY.

The collection of books, periodicals, and foreign patents in the Library of the Patent Office is of immeasurable value to the examining corps, inventors, manufacturers, and attorneys, but, owing to the small force available for reclassifying, indexing, and assembling the material at hand, we have experienced considerable difficulty in putting it in condition for ready reference. The library contains more than seventy-five thousand volumes of scientific works and more than two million foreign patents. There should be in charge of a library of the importance and value of the Patent Office Library a librarian of wide experience and special training. It is believed that he should be familiar with the art of making searches and should be selected from the examining corps. The present salary, \$2,000, is less than the salary of a Second Assistant Examiner. Any member of the corps appointed to the place will seek to be promoted out of it. In order to avoid this difficulty and to keep a well-trained man in the position, the salary of the Librarian should be increased to that of a Principal Examiner, \$2,700 a year.

We have in the Library a complete set of German patents not at present available for use, but which would be of great value if bound according to the classification of the German Patent Office. They would fill 2,100 large volumes. The estimate of the Public Printer for binding these patents is \$16 a volume, a total of about \$33,000. I have not been able to have this work done with the funds provided for binding. I ask that a special appropriation be made for this purpose.

LEGISLATION.

Personnel.

In view of the fact that legislation of great importance to proper development of the plan to reorganize the examining corps in the Patent Office is at this time pending in the House of Representatives after passage through the Senate on December 16, 1915, it is deemed important to include in this report the explanation of the legislation asked for, found in the report of last year. It will be remembered that the bill now before the House of Representatives passed both the House and Senate last year and failed to become a law because of an oversight.

The examining corps in the Patent Office is composed of an Examiner of Classification, an Examiner of Interferences, an Examiner of Trade-Marks, four Law Examiners, forty-three Principal or Primary Examiners, and three hundred and

thirty-four Assistant Examiners. Of the Assistant Examiners sixty-three are paid \$2,400 a year, seventy-three are paid \$2,100 a year, eighty-eight are paid \$1,800 a year, and one hundred and ten are paid \$1,500 a year. It will be noted that the number of Assistant Examiners receiving only \$1,500 a year is equal to the sum total of the Law Examiners, the Primary Examiners, and those Assistant Examiners receiving \$2,400 a year. This disproportion of the number in the lowest grade to those in the higher grades slows down promotions. This has contributed materially to induce ambitious young men to leave the Office after they have been admitted to the bar. On an average, one Assistant Examiner to each examining division resigns every two years. This is a serious handicap.

It is urged that the examining corps be reorganized by reducing the number in the lower grades, so as to make them equal.

The cost of such changes applied to the present force would be about twenty-three thousand dollars.

I have, however, asked Congress to make the number of the four grades eighty-six, which would increase the number of Assistant Examiners by ten, and would increase the pay roll by about forty-two thousand dollars. As stated above, the bill which when finally passed would accomplish this reorganization has passed the Senate during the present Congress and has been reported favorably by the Committee on Patents of the House.

No increase in the number of examining divisions is recommended. While it is difficult for the Primary Examiners to oversee the work of more than six or seven Assistant Examiners, as must be done now in the larger divisions, the advantage to be gained by reducing the number of Assistant Examiners in these large divisions must be balanced against and is believed to be outweighed by the inconvenience of increasing the number of divisions, with the consequent splitting up of the classes of invention among the different Primary Examiners. It is believed, however, that if the number of Law Examiners, who are substantially of the same rank as the Primary Examiners, were increased a large amount of supervisory work in addition to what is now being done, as indicated below, could be accomplished under the direction of the Commissioner. This supervisory work would be directed toward unifying the practice in the different divisions to the end that there may be a more speedy prosecution of applications and more certainty of arriving at correct conclusions.

The present Board of Examiners-in-Chief consists of three members, two of whom constitute a quorum. An increase of two members is necessary, and for three reasons:

1. The number of cases appealed is so large that there is more work than three men can properly dispose of, and it is increasing. At present a Second Assistant Examiner is detailed to assist the members of the board in their work.

2. Where because of the necessary absence of one member an appeal is heard by two members, in the

event of a divided board it is the uniform practice to set down cases for rehearing before the full board. This increases the work of the Office and the cost to the applicant. With five Examiners-in-Chief, three of whom constitute a quorum, this difficulty would be obviated.

3. The enforced absence of two members of the board at one time suspends the work of the board. In the event of serious and protracted illness this would cause great inconvenience.

The number of interferences which must be passed upon by the Examiner of Interferences is so large that it is impossible for him personally to examine the records submitted. It is therefore proposed to divide the work between two Examiners of Interferences, one of whom shall take the contested cases in trade-marks and the other the interferences involving inventions. I ask Congress to provide an additional Examiner of Interferences for this purpose.

The act making appropriation for the sundry civil expenses of the Government contains a provision under the heading of "Public printing and binding" as follows:

And no more than an allotment of one-half of the sum hereby appropriated shall be expended in the first two quarters of the fiscal year, and no more than one-fourth thereof may be expended in either of the last two quarters of the fiscal year, except that, in addition thereto, in either of said last quarters, the unexpended balances of allotments for preceding quarters may be expended.

Under the provisions of this act all printing of patents granted by the Office is done by the Public Printer. The patents are printed in the traditional form, and no provision is made for issuing them in any other form. Therefore unless the work may be done by the Public Printer patents cannot be granted. The general patent statute, however, provides that patents shall be granted after due proceedings have been had, which include the payment of a final fee within the time prescribed by the statute, and section 4885 expressly provides that the patent shall be granted in not less than three months after the payment of the final fee. If, therefore, the portion of the appropriation available at any time is exhausted, the Commissioner may find himself unable to comply with the provisions of the law as to the granting of patents because of the foregoing provision respecting the use of the appropriation.

If this difficulty should arise in the fall before Congress has convened or in the spring after a short session, the Office might be thrown into confusion, and the rights of patentees might be seriously jeopardized. I would, therefore, suggest that to the above-quoted passage from the appropriation act there be added the proviso that it shall not apply to the printing of Letters Patent for inventions.

Section 4934 of the Revised Statutes requires the payment of a fee of fifteen dollars upon the filing of each original application and a fee of twenty dollars upon the issuance of each patent. The cost of printing the patent after the examination of the application has been completed is much less than twenty dollars. The cost to the Office of the

prosecution of applications is considerably more than fifteen dollars. It is believed that if the filing fee were made twenty dollars, and the final fee made fifteen dollars, no substantial falling off in the number of applications would be experienced. As about forty per cent. of the applications filed do not eventuate into patents, the increase in the receipts of the Office by the readjustment of fees suggested would probably exceed \$125,000.

Attorneys.

It has been suggested many times that the privilege of practising before the Office should be granted only after examination similar to examinations held for admission to the bar. It is believed that this requirement would be too severe, as many persons not specially trained in the law and without any particular educational advantages may by careful study of the practice and of the useful arts learn adequately to prosecute applications. Fundamentally knowledge of the invention is more important than knowledge of the rules and is often possessed by men of a type of mind which does not acquire legal knowledge readily.

Last year, toward the end of the session, a bill was passed by the Senate and failed to pass the House of Representatives, which declared it to be unlawful for any person, firm, or corporation practising before the Patent Office to use the name of any member of either House of Congress or of any officer of the Government to advertise said business. I recommend that a law be enacted in the terms of this bill, (S. 7427, 63d Congress, 3d Session.) The attorneys who make use of letters from Members of Congress for purposes of advertising are not as a class entitled to be commended to their constituents. A recent investigation showed one concern in Washington which had pending for different applicants 94 applications for nutlocks. This is doubtless an exceptional instance; but it is nevertheless true that these advertisers take applications which conflict without considering the fact that they are representing conflicting interests. They make searches which careful examination will show to be inadequate and inaccurate, and they induce people whose circumstances they do not know to file applications both in this country and abroad which no attorney should permit a client to file. In this way they collect hundreds of thousands of dollars every year from people scattered all over the United States, and, on the whole, people of the poorer class. The Office never recommends these concerns. I trust the bill referred to may pass.

Payment and refundment of fees.

On pages 186, 187, and 188 of the Report of the Investigation of the United States Patent Office, made by the President's Commission on Economy and Efficiency in December, 1912, (62d Congress, 3d session, H. R. Document No. 110,) will be found some valuable recommendations regarding the payment of fees into the Patent Office and the refundment of such fees as were paid by mistake or were

in excess of what was required by law. The subjects therein discussed should receive congressional action in the interest of economy and efficient administration.

PAYMENT OF FEES.

Section 4935, R. S.

Patent fees may be paid to the Commissioner of Patents, or to the Treasurer, or any of the assistant treasurers of the United States, or to any of the designated depositories, national banks, or receivers of public money, designated by the Secretary of the Treasury for that purpose; and such officer shall give the depositor a receipt or certificate of deposit therefor. All money received at the Patent Office, for any purpose, or from any source whatever, shall be paid into the Treasury as received, without any deduction whatever.

The purpose of the proposed amendment to section 4935, Revised Statutes, is to eliminate the provision for payment by Treasury certificate of deposit. Less than three per cent. of the patent fees are paid by certificate of deposit, and this method of payment is a source of confusion and trouble. Under the regulations of the Treasury Department these certificates when issued are forwarded by the depository to the Patent Office, and the depositor is therefore without means to control the actual time of payment into the Patent Office other than to receive the benefit of payment as of the date upon which the deposit is made.

The weekly issues of patents are made up of cases in which the final fees have been received by the Office not later than Thursday. Under the rules of the Patent Office the patents bear date as of the fourth Tuesday following the close of the issue, the intervening time being required to lithograph and engross the patent papers. It has happened in many cases that the failure to issue a patent upon a date arranged for by the inventor was due to the delay of the depository in forwarding to this Office the certificate of deposit. For instance, an inventor residing in Chicago will make a payment of his final fee at the subtreasury on Monday, expecting that the patent will be in the issue which closes on the following Thursday; but if the depository delays the transmission of this certificate until too late to reach the Office by Thursday the issue of the patent goes over one week, very often to the inconvenience and disappointment of the inventor, and it will be several days before the unfavorable condition becomes known to the inventor, at which time it will be too late to correct the error. In numerous other cases there has been a failure of the depository to date the certificate, and this necessitates correspondence and further delay in the issuance of the patent, for the fee cannot be credited as having been paid unless the date of deposit thereof be shown.

When a certificate of deposit is used to pay the filing fee of an application, a bad situation sometimes

Section 4935, R. S. (Proposed Amendment.)

Patent fees shall be paid to the Commissioner of Patents, and the Commissioner, or such person as he shall deputize, shall make daily deposits in some bank in the District of Columbia, to be designated by the Secretary of the Treasury for this purpose, of all moneys received as patent fees; and shall make deposits of such fees with the Treasurer of the United States, at such times and in such manner as the latter shall direct; and shall also make monthly reports in aggregate to the Secretary of the Treasury of all remittances received and moneys refunded.

arises. An inventor residing, say, in one of the Pacific Coast cities will lodge in this Office an application for patent, complete except as to the fee, and on the last day of the year within which he could make payment of the fee under the law he will make a deposit of the fee with a depository. Eight or ten days thereafter and after the expiration of the year the Office will receive the certificate, but must antedate the completion of the application to the date of the deposit of the fee. This requires that the application be given a fractional serial number and otherwise disarranges the continuity of our records. When a final fee is paid by an inventor under similar circumstances, it acts to prolong by eight or ten days the period during which the application is pending, contrary to the purposes of the law.

Payment by certificate of deposit is discriminatory and unfair to inventors residing in small places remote from Washington in that such inventors, not having access to a depository, are required to pay their fees in the form of remittance by cash, bank draft, or money order such a time in advance as to insure the receipt of the remittance within the lawful period. It is therefore apparent that section 4935, Revised Statutes, should be amended so as to require all fees to be paid directly into the Patent Office.

REFUNDMENT OF FEES.

Section 4936, R. S.

The Treasurer of the United States is authorized to pay back any sum or sums of money to any person who has through mistake paid the same into the Treasury, or to any receiver or depository, to the credit of the Treasury, as for fees accruing at the Patent Office, upon a certification thereof being made to the Treasurer by the Commissioner of Patents.

Section 4936, R. S. (Proposed Amendment.)

The Commissioner of Patents is authorized to refund any money to any person who has paid the sum for fees to the Patent Office through mistake, or in excess, but no refundment of any money shall be made after the expiration of five years from the date of payment.

A decision of the Comptroller of the Treasury, dated November 23, 1911, (18 Comp. Dec., 368,) in the matter of refundments by the Patent Office, has placed upon the Office a very great burden and has increased considerably the cost of administration. Prior to the decision referred to section 4936, Revised Statutes, was considered to have created an appropriation out of which the Financial Clerk of the Patent Office was authorized to refund such fees as were paid into the Office by mistake or in excess. The old practice is found to have been in operation for about forty years without question. Under the new practice the Patent Office certifies to the Treasury Department an abstract of all fees received by the Patent Office, including thousands of five-cent items. This abstract, which is made monthly, comprises between four hundred and five hundred pages and embodies the name of each remitter, his address, the purpose for which the fee was paid into the Office, and the amount thereof. After such abstract of fees received has been sent to the Treasury the Commissioner of Patents certifies to the Treasurer a list of the comparatively few cases wherein refundments of excess fees or fees paid by mistake

are to be made. The certificate of refundment and the abstract of payments are audited, and thereafter a Treasury warrant for the amount to be refunded is drawn. About six thousand of such warrants are issued annually. Three-fourths of the number are for sums of less than one dollar. The number of warrants for five cents each run into the hundreds. The gross receipts of the Patent Office for the year ended December 31, 1914, were \$2,264,419.76, and the refundments during the same year amounted to \$12,526.94. This method of auditing and refunding by warrants through the Treasury is estimated to cost one dollar for each transaction—that is, for each warrant—so that, to quote from the report (p. 187) mentioned—

it will be seen that while the practice established under the ruling of the Comptroller conforms to the requirement of the law, the expense is out of proportion to the benefits.

The Commission referred to recommended that the law be amended so as to authorize refundments to be made by the Patent Office.

In view of the fact that persons who pay money into the Patent Office by mistake or in excess of the amount required are notified promptly that refundment will be made upon request it is believed that there should be some limitation upon the time within which such refundments can be made. For this reason it is proposed to add to section 4936, as amended, a provision that refundments on account of fees paid by mistake or in excess shall not be made after the expiration of five years from the date of payment. This limitation will enable the Office to close its transactions and not be required to make reference to records which in future years may not be available. A requirement that refundment shall be made within a reasonable and definite time after payment will also eliminate the liability to make duplicate refundments.

These items enter very largely into the operations of the Patent Office, and the public business will be facilitated, at a reduced cost, if sections 4935 and 4936, Revised Statutes, are amended in the particulars pointed out.

Assignments.

One of my predecessors—Commissioner Benton J. Hall—in his annual report to Congress for the year 1887 said:

Section 4898 provides that an assignment, grant or conveyance shall be void as against any subsequent purchaser or mortgagee for a valuable consideration without notice unless such instrument be recorded in the Patent Office within three months from the date thereof. In my opinion, this requirement operates unjustly in providing that an assignment, if recorded after three months from the date thereof, shall have no effect as constructive notice to a subsequent purchaser or mortgagee for a valuable consideration. The provision in my judgment should be modified so as to declare that while the assignment should be valid without recording for the period of three months from and after its date, thereafter it should be void against subsequent purchaser or mortgagee for a valuable consideration without notice, unless it be recorded in the Patent Office prior to the date of such subsequent purchase or mortgage, so that should the assignee fail through forgetfulness or accident to file his instrument or assignment within three months he might still file it for record at a subsequent period, and it should then give constructive notice from the date of its actual filing.

I concur in the views expressed here and the suggested amendment to the law to carry it into effect.

Under section 4934 of the Revised Statutes, originally enacted in 1870, the maximum fee for recording each "assignment, agreement, power of attorney, or other paper" was three dollars. Assignments have been and are now being received and recorded weekly that embody hundreds of patents and thousands of words. Recently, for example, there were recorded eight writings, three of which contained 966 patents, applications, and trademarks, and the legal fees for recording the eight writings were thirty dollars under the Revised Statute mentioned, as amended May 27, 1908. The actual time occupied by the clerical force in verifying and supplying missing data of these patents, digesting, indexing, recording, and comparing was 172 hours, equivalent to the time of one clerk for twenty-four and four-sevenths days. At a minimum fee of fifty cents per hour legally chargeable for this class of work the cost to the Office for recording these writings was eighty-six dollars, nearly three times the amount paid therefor.

In addition to the number of words in writing presented for record, a nominal fee for each additional patent, application, design, trade-mark, or invention enumerated therein should, in my judgment, be charged. It is therefore suggested that twenty-five cents be charged for each of said additional items. I may add that this recommendation was included in the report to Congress of the investigation of the United States Patent Office by the President's Commission on Economy and Efficiency in December, 1912, and reference is made therein to this matter on pages 185-196.

It is therefore recommended that section 4934 be suitably amended to provide for this change in fees. A proper amendment will be submitted at an early date for consideration of Congress.

Assignees' index.

In 1870 a special appropriation was made by Congress for the purpose of indexing all prior recorded deeds, assignments, etc., under the name of the inventor, and all assignments recorded since that date have been so indexed. Under this law, pursuant to the records established thereby, it is necessary to know at least the name of the applicant or inventor to make the necessary search to run down a chain of title. Experience has shown that it is frequently necessary or desired by attorneys, inventors, and the general public to ascertain what patents are owned by a particular individual, firm, or corporation.

There is no authentic manner at present in which such search can be made except in each of the volumes wherein are recorded assignments and the data of the application, where they are indexed from assignor to assignee. It is therefore very desirable that a consolidated assignees' index be established and kept up to date in the Patent Office for this purpose. Requests are frequently made for such an authentic, verified, and checked index from which a reliable search may be made to ascertain what patents are owned by given corporations, firms, or individuals. To perform this service, it is

believed that three more index clerks will be required in addition to those now employed in the Assignment Division, and for the indexing covering the past seventeen years five or six additional clerks will probably be needed to bring up its arrearage within a reasonable time.

I will therefore submit at an early date to Congress a request for authority to establish this index and a request for additional clerks for this purpose.

Clerks of courts to file decrees.

I would also suggest that the law be amended to require the clerks of the Federal courts to file in this Office a copy of every decree granting or refusing an injunction in a suit for infringement of a patent and every final decree affecting the validity of a patent.

If such copies were filed in this Office and placed in the file of the patent, it would enable any one to determine the litigation in which this patent had been involved, a thing which is now practically impossible, since many of the decisions of the lower courts are not published.

Protection of designs.

The present method of protecting designs is cumbersome and so costly that designers make little use of it. The problems of a court in passing upon the validity and infringement of design patents are so simple, generally speaking, as not to require the assistance of expert opinion. Little or nothing, therefore, is gained by examination prior to the granting of a patent. It is recommended that protection of designs be put upon a registration basis and the fees be greatly reduced.

Subpœna duces tecum.

The present statute does not provide for *subpœna duces tecum* in interference cases. This remedy should be provided by amending section 4906 of the Revised Statutes by adding thereto the statement that the provisions of section 869 of the Revised Statutes with relation to the issuance of a *subpœna duces tecum* shall apply to contested cases in the Patent Office.

Applications filed by attorneys.

Under date of September 15, 1914, I wrote to a firm of attorneys practising before the Office a let-

ter subsequently published in the *Scientific American* of September 26, 1914, page 246, as follows:

I am accepting two applications filed by you as attorneys to-day, wherein the inventor's name to the petition and specification is signed by you as attorneys and the oath is made by a member of your firm. The time for filing these applications expires under the Convention to-morrow. Therefore, in filing these applications in the form in which you have presented them, you are doing all that you can to save your client's rights, and in permitting them to be filed and giving them a serial number and date of filing of to-day, I am doing all I can with the same end in view. If this should not prove to be effective, the loss must be attributed to the troubled conditions of Europe and not laid at your door or that of the Office.

It will be necessary before patents are granted that applications be filed executed by the inventor himself, as provided in section 4888. Whether the applications to be filed can be tied to the applications which you are filing to-day under the provisions of section 4887 is, of course, a matter which only a court of last resort can determine. *Ex parte Tropenas* (90 O. G., 749) to the contrary notwithstanding, I think it a possible construction of section 4887 that its requirements may be satisfied by the filing of applications executed by an attorney.

I hope, however, in case there are a number of applications executed by attorneys, that Congress may be induced to validate patents granted or to be granted upon proceedings indicated above.

Pursuant to this letter there have been filed in this Office 263 applications signed by attorneys. In 132 of these applications substituted papers signed by the inventor have since been received. From among these 132 applications 33 patents have been granted as follows: Patents Nos. 1,125,794, 1,128,972, 1,128,973, 1,136,521, 1,140,137, 1,140,296, 1,142,222, 1,144,192, 1,144,905, 1,148,420, 1,150,414, 1,150,682, 1,151,928, 1,153,774, 1,153,821, 1,154,933, 1,156,295, 1,158,269, 1,159,264, 1,160,268, 1,161,147, 1,161,161, 1,161,254, 1,161,723, 1,161,744, 1,161,866, 1,162,226, 1,162,496, 1,165,128, 1,167,341, 1,168,748, 1,169,514, and 1,169,652. In addition to these patents two applications which have been allowed and the fees paid therein will result in patents on February 22d. Nine other applications have reached the stage of allowance, where they await only the payment of the final fee before the patent will be granted, and one application has become forfeited.

These applications were accepted in good faith under conditions which were beyond control, and it is recommended that Congress validate the patents granted and to be granted.

Respectfully submitted.

THOMAS EWING,
Commissioner of Patents.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1915.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

[Abbreviations: "Gaz."=Official Gazette.]

- A. Geo. Schulz Co. (See Graffenberger, Friedrich, assignor.)
A. Goodman & Sons. (See Goodman and Cowen, assignors.)
A. Kimball Company. (See Anthony, Marcus O., assignor.)
A. Kimball Company. (See Platt, Maurice A., assignor.)
A. Magnus Sons Company. (See Maul, Christ, assignor.)
A. Mecky Co. (See Ledig, Richard G., assignor.)
A. Schrader's Son. (See Bowden, Junius A., assignor.)
A. Schrader's Son. (See Freer, Phelps M., assignor.)
A. Schrader's Son. (See Schweinert and Kraft, assignors.)
A. Schrader's Son Incorporated. (See Kraft and Kautzman, assignors.)
A. Stein & Company. (See Kuehn, Charles P., assignor.)
A. Weiskittel & Son Company. (See Hearl, John, assignor.)
A. Wittnauer Co. (See Giset, Olaf E., assignor.)
A & A Manufacturing Company, The. (See Swanson, Charles H., assignor.)
A. A. Simonds & Son Co., The. (See Simonds, Herbert R., assignor.)
A. B. Dick Company. (See Dick, Albert B., assignor.)
A. B. Dick Company. (See Edmonds, Samuel O., assignor.)
A. B. Dick Company. (See Green, Charles F., assignor.)
A. B. Gaston Company. (See Gaston and Hood, assignors.)
A-B Stove Company. (See Berry, Frank K., assignor.)
A-B Stove Company. (See Reedy, Alfred J., assignor.)
A. C. Clark & Company. (See Clark, Albert C., assignor.)
A. C. Williams Company, The. (See Thompson, Henry G., assignor.)
A. D. Kneuper Specialty Company. (See Kneuper, Alexander D., assignor.)
A. & F. Brown Company, The. (See Toeplitz, Richard, assignor.)
A. F. Flanders Manufacturing Company. (See Flanders, Albert F., assignor.)
A. F. Messelbach & Brother. (See Catucci, Pliny, assignor.)
A. F. Meyer Manufacturing Co. (See Meyer, Alfred F., assignor.)
A. F. Ward Machinery Co., The. (See Ward, Ashley F., assignor.)
A. G. Spalding & Bros. Man'g. Co. (See Reach and Richey, assignors.)
A. G. Spalding & Bros. Man'g. Company. (See Reach, Robert, assignor.)
A. G. Spalding & Bros. Man'g. Company. (See Reach, William F., assignor.)
A. G. Spalding & Bros. Manufacturing Co. (See Reach, Milton B., assignor.)
A. G. Spalding & Bros. Mfg. Co. (See Pierce, George L., assignor.)
A. G. Spalding & Bros. Mnf'g. Co. (See Pierce and Peterson, assignors.)
A. H. Wirz, Incorporated. (See Wirz, August H., assignor.)
A. J. Deer Co., The. (See Prims, Josef C., assignor.)
A. J. Ellis, Inc. (See Ellis and Nellis, assignors.)
A. J. Lindemann & Hoverson Co. (See Camp, Key D., assignor.)
A. J. Lindemann & Hoverson Co. (See Lindemann, Albert J., assignor.)
A. J. Lindemann & Hoverson Co. (See Lindemann and Camp, assignors.)
A. J. Meyer Motor Car Company. (See Meyer, August J., assignor.)
A K-Ray Corporation. (See Roffy, Joseph T., assignor.)
A. L. Barber Asphalt Company, The. (See Kasson, Livingston S., assignor.)
A. R. Mosler & Co. (See Klingner, Adolph, assignor.)
A. R. Mosler & Co. (See Mosler, Arthur R., assignor.)
A. S. Aloe Instrument Company. (See Bode, Charles, assignor.)
A. S. Cameron Steam Pump Works. (See Sebald, Joseph H., assignor.)
A/S Johnny Fabriker. (See Nygaard, Johan O., assignor.)
Aagaard, Otto W., Chicago, Ill. Portable building. No. 1,162,432; Nov. 30; Gaz. vol. 220; p. 1590.
Aalborg, Christian. (See Davis and Aalborg.)
Aaron, Jacob, et al. (See Wittenberg, Paul J., assignor.)
Aaron, Julius D., Mount Olive, N. C. Hameless horse-collar. No. 1,143,015; June 15; Gaz. vol. 215; p. 753.
Aaron, Mabel, Stockton, Cal. Dish-washing device. No. 1,133,691; Mar. 30; Gaz. vol. 212; p. 1522.
Aaron, Mabel, Stockton, Cal. Broiler and baking attachment for gas-stoves. No. 1,143,603; June 22; Gaz. vol. 215; p. 983.
Aaron, Solomon E., Boston, Mass. Device for handling and lowering ships' boats. No. 1,123,645; Jan. 5; Gaz. vol. 210; p. 153.
Aasen, Niels W. (See Hansen-Ellehammer, Jacob C., assignor.)
Aasen, Ole T., Starbuck, Minn. Changeable vehicle. No. 1,164,051; Dec. 14; Gaz. vol. 221; p. 507.
Aasheim, John A., M. J., and L. J., Fargo, N. D. Wild-oats separator. No. 1,164,052; Dec. 14; Gaz. vol. 221; p. 507.
Aasheim, Lewis J. (See Aasheim, John A., M. J., and L. J.)
Aasheim, Morgan J. (See Aasheim, John A., M. J., and L. J.)
Abady, Jacques. (See Simmance and Abady.)
Abbate, Vincent, New York, N. Y. Automatic cut-off for gas-burners. No. 1,136,202; Apr. 20; Gaz. vol. 213; p. 832.
Abbey, Charles C., and E. L. Madden, Santa Ana, Cal. Capsule-filler. No. 1,161,276; Nov. 23; Gaz. vol. 220; p. 1143.
Abbey & Imbrie. (See Mayer, Frank H., assignor.)
Abbot, Andrew A., Boston, Mass. Portable fire-escape. No. 1,160,809; Nov. 16; Gaz. vol. 220; p. 931.
Abbott, Carl M. (See Peterson, Erick B., assignor.)
Abbott, Charles C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Primary-voting mechanism. No. 1,127,149; Feb. 2; Gaz. vol. 211; p. 171.
Abbott, Charles C., and L. Hale, Birmingham, Ala. Closet. No. 1,124,098; Jan. 5; Gaz. vol. 210; p. 306.
Abbott, Charles M., Watertown, assignor to Samuel Cabot, Inc., Boston, Mass. Means for applying adhesive to seams. No. 1,126,156; Jan. 26; Gaz. vol. 210; p. 1157.
Abbott, Charles M., Watertown, assignor to Samuel Cabot, Inc., Boston, Mass. Insulating material. No. 1,126,157; Jan. 26; Gaz. vol. 210; p. 1157.

Alphabetical list of patentees—Continued.

- Abbott, Chauncey W., Auburn, N. Y., and H. R. Gilson, Baden, assignors to National Metal Molding Company, Pittsburgh, Pa. Electrical fixtures and their attachment to conduits. No. 1,127,383; Feb. 9; Gaz. vol. 211; p. 291.
- Abbott, Edgar C., *et al.* (See Connor, Patrick F., assignor.)
- Abbott, Franklin E., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Splice-bar. No. 1,152,375; Aug. 31; Gaz. vol. 217; p. 1632.
- Abbott, Gheen R., Baltimore, Md. Mold for constructing concrete tunnels. No. 1,137,442; Apr. 27; Gaz. vol. 213; p. 1315.
- Abbott, James W., Ingalls, Kans. Automatic steam-reverse. No. 1,126,331; Jan. 26; Gaz. vol. 210; p. 1221.
- Abbott, John J., *et al.* (See Knowles, George H., assignor.)
- Abbott, John M., Nebo, Ill. Boiler-feeder. No. 1,157,357; Oct. 19; Gaz. vol. 219; p. 766.
- Abbott, Lawrence A., Chicago, Ill. Gas-motor. No. 1,126,332; Jan. 26; Gaz. vol. 210; p. 1221.
- Abbott, Lawrence A., Chicago, Ill. Heat-regulator. No. 1,136,084; Apr. 20; Gaz. vol. 213; p. 790.
- Abbott, Lawrence A., Jr., assignor of one-third to H. Browne and one-third to F. Wiegand, Newark, N. J. Bearing-rollers. No. 1,143,479; June 15; Gaz. vol. 215; p. 916.
- Abbott, Peter, Franklin, N. H. Center-finder for center-squares. No. 1,153,149; Sept. 7; Gaz. vol. 218; p. 276.
- Abbott, William C., Baltimore, Md. Car-fender. No. 1,156,737; Oct. 12; Gaz. vol. 219; p. 517.
- Abbott, William G., Jr., Milford, N. H., assignor to General Electric Company, Drawn electrode. No. 1,157,280; Oct. 19; Gaz. vol. 219; p. 740.
- Aberbalden, Emil, Halle-on-the-Saale, Germany. Potentiated serum and making it. No. 1,151,536; Aug. 24; Gaz. vol. 217; p. 1295.
- Abezg, Julius, Hoboken, N. J., assignor to The Picard Importing Company, Inc., New York, N. Y. Fountain-pen. No. 1,134,936; Apr. 6; Gaz. vol. 213; p. 304.
- Abel, Edward C. (See Abel, John A. and E. C.)
- Abel, John A. and E. C., Woodhaven, N. Y. Jewel-cluster setting. No. 1,134,497; Apr. 6; Gaz. vol. 213; p. 151.
- Abel, John A. and E. C., Woodhaven, N. Y. Article of jewelry. No. 1,146,543; July 13; Gaz. vol. 216; p. 571.
- Abel, Percy, Alton, Ill. Knife. No. 1,155,331; Oct. 5; Gaz. vol. 219; p. 3.
- Abeles, Leo, assignor of one-half to D. J. Shern, Philadelphia, Pa. Signalling device. No. 1,155,294; Sept. 28; Gaz. vol. 218; p. 1118.
- Abeling, Otto, Washington, D. C. Road-rammer. No. 1,145,734; July 6; Gaz. vol. 216; p. 266.
- Abell, Rollin, Milton, Mass. Valve. No. 1,132,542; Mar. 23; Gaz. vol. 212; p. 1067.
- Abell, Rollin, Boston, Mass. Carbureter. No. 1,158,359; Oct. 26; Gaz. vol. 219; p. 1178.
- Abella, José, Isabela, Philippines Islands. Plow. No. 1,161,825; Nov. 30; Gaz. vol. 220; p. 1379.
- Abendschein, George F., and A. Staib, New York, N. Y. Upright-piano action. No. 1,123,646; Jan. 5; Gaz. vol. 210; p. 153.
- Abendschein, George F., and A. Staib, New York, N. Y. Rebound-checking mechanism for piano-actions. No. 1,126,931; Feb. 2; Gaz. vol. 211; p. 94.
- Abercrombie, Charles M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Cloth-presser mechanism for sewing-machines. No. 1,150,321; Aug. 17; Gaz. vol. 217; p. 821.
- Abercrombie, David T. (See Buckelew, Albert H., assignor.)
- Aberle, Edward. (See Freer, James S., assignor.)
- Aberle, Edward, West Nutley, N. J. Stamping-machine. No. 1,134,431; Apr. 6; Gaz. vol. 213; p. 126.
- Aberle, Jesse H. (See Johnson and Aberle.)
- Abernathy, Hugh H., Chicago, Ill. Rapid-acting vise. No. 1,140,646; May 25; Gaz. vol. 214; p. 1137.
- Abernethy, Edwin F., assignor of one-half to G. H. Abernethy, Brooklyn, N. Y. Carbureter for internal-combustion engines. No. 1,137,727; May 4; Gaz. vol. 214; p. 3.
- Abernethy, Edwin F., assignor of one-half to G. H. Abernethy, Brooklyn, N. Y. Carbureter or vaporizer for explosive-engines. No. 1,137,728; May 4; Gaz. vol. 214; p. 3.
- Abernethy, Edwin F., New York, assignor of one-half to G. H. Abernethy, Brooklyn, N. Y. Convertible turbine-engine. No. 1,148,813; Aug. 3; Gaz. vol. 217; p. 119.
- Abernethy, George H. (See Abernethy, Edwin F., assignor.)
- Abert, Hamilton, assignor to The Manhattan Rubber Manufacturing Company, Passaic, N. J. Golf-tee. No. 1,144,747; June 29; Gaz. vol. 215; p. 1407.
- Abplanalp, Arthur, Basel, Switzerland. Exercising apparatus for use in a lying position. No. 1,144,085; June 22; Gaz. vol. 215; p. 1149.
- Abraham, Adolph, Rockford, Ill. Window attachment. No. 1,139,008; May 11; Gaz. vol. 214; p. 491.
- Abraham, Henri, assignor to Henri Abraham et Jules Carpentier, Paris, France. Apparatus for producing directive forces by induction in alternating-current circuits. No. 1,157,281; Oct. 19; Gaz. vol. 219; p. 740.
- Abraham, Herbert, Boundbrook, N. J. Process and apparatus for the manufacture and preparation of roofing-strips. No. 1,126,932; Feb. 2; Gaz. vol. 211; p. 94.
- Abraham, Herbert, Boundbrook, N. J., and H. W. Haines, New York, N. Y., assignors to Impervious Products Company. Cement-making. No. 1,134,573; Apr. 6; Gaz. vol. 213; p. 179.
- Abraham, Isaac B., Chicago, Ill. Wedge-supporting block for axle-boxes. No. 1,133,082; Mar. 23; Gaz. vol. 212; p. 1267.
- Abraham, Morris, *et al.* (See Smith, Hugh A., assignor.)
- Abrahams, Arthur L., Philadelphia, Pa. Metal door. No. 1,143,245; June 15; Gaz. vol. 215; p. 835.
- Abrahamsen, Henry M., Elmwood, Mass. Container-stopper. No. 1,144,678; June 29; Gaz. vol. 215; p. 1382.
- Abram Cox Stove Company. (See Edgar, Andrew C., assignor.)
- Abram Cox Stove Company. (See Nelson, Alfred, assignor.)
- Abram Cox Stove Company (See Van Buren, Jafew S., assignor.)
- Abramovitz, Hyman, New York, N. Y. Change-making machine. No. 1,166,302; Dec. 28; Gaz. vol. 221; p. 1376.
- Abramowitz, Joseph, North Venice, assignor of one-half to J. Selb, Venice, Ill. Combined ventilating-insole and arch-support for boots, shoes, and the like. No. 1,160,810; Nov. 16; Gaz. vol. 220; p. 932.
- Abrams, Rose, New York, N. Y. Garment. No. 1,150,006; Aug. 17; Gaz. vol. 217; p. 709.
- Abrams, Samuel, New York, N. Y. Dress. No. 1,123,212; Jan. 5; Gaz. vol. 210; p. 3.
- Abramski, Joseph, Newark, N. J. Manually-propelled boat. No. 1,165,375; Dec. 28; Gaz. vol. 221; p. 1047.
- Abramson, Alfred C. (See Person and Abramson.)
- Abramson, Alfred C., Rockford, Ill. Lamp. No. 1,134,574; Apr. 6; Gaz. vol. 213; p. 179.
- Abrashin, Harry, Seattle, Wash. Combined table and ironing-board. No. 1,151,505; Aug. 24; Gaz. vol. 217; p. 1284.
- Abalom, Arthur, and W. H. Coley, Montgomery, W. Va. Valve. No. 1,160,118; Nov. 16; Gaz. vol. 220; p. 687.
- Abt, Alfred, assignor to The Warner Brothers Company, Bridgeport, Conn. Corset. No. 1,155,864; Oct. 5; Gaz. vol. 219; p. 188.
- Abtmeyer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Percolator. No. 1,124,633; Jan. 12; Gaz. vol. 210; p. 564.
- Abtmeyer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Armature. No. 1,153,474; Sept. 14; Gaz. vol. 218; p. 431.
- Abtmeyer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Percolating device. No. 1,158,421; Nov. 2; Gaz. vol. 220; p. 3.
- Accounting Devices Company. (See Jones, William G., assignor.)
- Acétylène Dissous & Applications de L'acétylène. (See Picard, Charles, assignor.)
- Ach, Lorenz, Mannheim, and A. Rothmann, Heidelberg, assignors to Farbwerke vorm. Meister Lucius & Bruening, Höchst-on-the-Main, Germany. Preparing amino-arsenobenzenes. No. 1,156,044; Oct. 12; Gaz. vol. 219; p. 277.
- Ach, Lorenz, Mannheim-Waldhof, A. Rothmann, Heidelberg, and H. Dieterich, Mannheim, assignors to Farbwerke vorm. Meister Lucius & Bruening, Höchst-on-the-Main, Germany. Preparing 2-chloro-4-aminobenzene-1-arsinic acids. No. 1,156,045; Oct. 12; Gaz. vol. 219; p. 277.
- Ach, Lorenz, A. Rothmann, Mannheim, and H. Hatzl, Heidelberg, Baden, assignors to Farbwerke vorm. Meister Lucius & Bruening, Höchst-on-the-Main, Germany. Preparing nitrated aminobenzol arsinic acid. No. 1,163,496; Dec. 7; Gaz. vol. 221; p. 266.
- Achard, John W., Philadelphia, Pa. End-cell switch. No. 1,140,322; May 18; Gaz. vol. 214; p. 987.
- Achberger, Józef, Middletown, Ohio. Interchangeable portable light. No. 1,143,604; June 22; Gaz. vol. 215; p. 983.
- Achberger, Józef, Middletown, Ohio. Insulated utensil-handle. No. 1,162,896; Dec. 7; Gaz. vol. 221; p. 56.
- Achenbach, Moore S., Pittsburgh, Pa. Display device for bottles, &c. No. 1,144,086; June 22; Gaz. vol. 215; p. 1149.
- Acheson, Edwin S., St. Louis, Mo. Wire-splicer. No. 1,158,018; Oct. 26; Gaz. vol. 219; p. 1059.
- Acker, Charles E., New York, N. Y., assignor to The Nitrogen Company. Electrolyte for the production of alkali and alkaline-earth metals. No. 1,142,220; June 8; Gaz. vol. 215; p. 435.
- Acker, Charles E., Ossining, N. Y., assignor to The Nitrogen Company. Producing nitrogen compounds. No. 1,160,811; Nov. 16; Gaz. vol. 220; p. 932.
- Acker, Edwin. (See Kunert and Acker.)
- Ackerman, Charles N., Chicago, Ill. Screw-holding insert. No. 1,137,443; Apr. 27; Gaz. vol. 213; p. 1315.
- Ackerman, Charles N., and J. L. Johnson, Chicago, Ill. Tool for setting screw-anchors. No. 1,164,903; Dec. 21; Gaz. vol. 221; p. 843.

Alphabetical list of patentees—Continued.

- Ackerman, Edward L., assignor to Joseph N. Smith & Company, Detroit, Mich. Rail and bracket construction for vehicles. No. 1,141,915; June 8; Gaz. vol. 215; p. 329.
- Ackerman, Edward L., and C. P. Chamberlin, assignors to Jos. N. Smith Company, Detroit, Mich. Fastener for automobile-hoods. No. 1,151,986; Aug. 31; Gaz. vol. 217; p. 1496.
- Ackerman, Frank J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,131,979; Mar. 16; Gaz. vol. 212; p. 815.
- Ackerman, Frank J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,131,980; Mar. 16; Gaz. vol. 212; p. 815.
- Ackerman, Frank J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,131,981; Mar. 16; Gaz. vol. 212; p. 816.
- Ackerman, Frank J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controlling device. No. 1,131,982; Mar. 16; Gaz. vol. 212; p. 817.
- Ackerman, Frederick, North Bergen, N. J. Pipe-fitter's vise-bench. No. 1,156,965; Oct. 19; Gaz. vol. 219; p. 627.
- Ackerman, Henry, Clifton Park, N. J. Base or support for gem-settings. No. 1,130,128; Mar. 2; Gaz. vol. 212; p. 99.
- Ackerman, Jessie E., Portland, Oreg. Self-marking dress-marker. No. 1,125,790; Jan. 19; Gaz. vol. 210; p. 994.
- Ackerman, William G., Westpoint, Nebr. Beet-harvester. No. 1,136,858; Apr. 20; Gaz. vol. 213; p. 1065.
- Ackerman, William G., Westpoint, Nebr. Sharpener for hair-clippers. No. 1,141,095; June 1; Gaz. vol. 215; p. 3.
- Ackley, Griffin S., Buffalo, N. Y., assignor to G. S. Ackley & Company. Brake mechanism. No. 1,158,764; Nov. 2; Gaz. vol. 220; p. 124.
- Ackman, Albert H., Billett, Ill. Mail-box. No. 1,123,647; Jan. 5; Gaz. vol. 210; p. 154.
- Acme Electric Heater Company. (See Schneider, George J., assignor.)
- Acme Harvesting Machine Co. (See Case, Henry J., assignor.)
- Acme Harvesting Machine Co. (See Smith, Ernest C., assignor.)
- Acme Knitting Machine & Needle Company. (See Stewart, Albert E., assignor.)
- Acme Machine Tool Company, The. (See Pearson, James R., assignor.)
- Acme Manufacturing Company. (See Bacon and Nicolet, assignors.)
- Acme Patent and Development Company, The. (See Blevins and Randall, assignors.)
- Acme Register Company. (See Williams, Frederick, assignor.)
- Acme Road Machinery Company. (See Cook, David B., assignor.)
- Acme Steel Goods Company. (See Norton, Ralph H., assignor.)
- Acme Supply Company, The. (See Schroyer, Harry H., assignor.)
- Acme White Lead and Color Works. (See Holley, Clifford D., assignor.)
- Acme Wire Company, The. (See Underhill, Charles, assignor.)
- Acme Wire Company, The. (See Underhill, Charles R., assignor.)
- Actien Gesellschaft für Anilin Fabrikation. (See Erlenbach and Marx, assignors.)
- Actien Gesellschaft für Anilin Fabrikation. (See Geldermann and Haas, assignors.)
- Actien Gesellschaft für Anilin Fabrikation. (See Herzberg and Hoppe, assignors.)
- Acton, John B. (See Grace, Henry S., assignor.)
- Acton, Robert, La Salle, Ill. Alligator-wrench. No. 1,138,168; May 4; Gaz. vol. 214; p. 158.
- Acton, Robert, La Salle, Ill. Step-ladder. No. 1,152,687; Sept. 7; Gaz. vol. 218; p. 113.
- Adair, Charles R., and F. B. Banc, Narrows, Va. Delivering-cabinet. No. 1,144,928; June 29; Gaz. vol. 215; p. 1467.
- Adair, Thomas D., Boston, Mass., assignor to Standard Thermometer Company, Portland, Me. Speedometer. No. 1,161,757; Nov. 23; Gaz. vol. 220; p. 1309.
- Adam, Harry C., St. Louis, Mo. Indirect-lighting fixture. No. 1,160,094; Nov. 9; Gaz. vol. 220; p. 624.
- Adam, Henry C., Hamilton, Ontario, assignor of one-half to J. C. Adam, Vancouver, British Columbia, Canada. Antifriction-bearing for trolley-wheels. No. 1,136,200; Apr. 20; Gaz. vol. 213; p. 832.
- Adam, Henry C., Hamilton, Ontario, and J. C. Adam, Trenton, Ontario, Canada. Trolley-wheel. No. 1,141,512; June 1; Gaz. vol. 215; p. 152.
- Adam, Henry C., Hamilton, and J. C. Adam, Trenton, Ontario, Canada. Scotch. No. 1,149,316; Aug. 10; Gaz. vol. 217; p. 399.
- Adam, Jacob C. (See Adam, Henry C., assignor.)
- Adam, Jacob C. (See Adam, Henry C. and J. C.)
- Adam, Matthew A. (See Testrup, Adam, Rigby, and Andrew.)
- Adam, Matthew A., London, England, and W. J. Fernie, Dromara, Ireland. Retting. No. 1,140,296; May 18; Gaz. vol. 214; p. 977.
- Adamec, Vaclav A., Cincinnati, Ohio. Fender. No. 1,160,030; Nov. 9; Gaz. vol. 220; p. 601.
- Adams, A. H., et al. (See Byron, Hagar B., assignor.)
- Adams, Albert L., Cedar Rapids, Iowa. Ventilator. No. 1,126,333; Jan. 26; Gaz. vol. 210; p. 1222.
- Adams, Albert L., Cedar Rapids, Iowa. Coal-chute. No. 1,133,692; Mar. 30; Gaz. vol. 212; p. 1523.
- Adams, Alfred C., Peckham, London, England. Side mud-splash guard for motor and other vehicles. No. 1,137,688; Apr. 27; Gaz. vol. 213; p. 1395.
- Adams, Alfred N., Stockton, Cal. Reversing-gearing. No. 1,138,718; May 11; Gaz. vol. 214; p. 387.
- Adams, Alfred N., Stockton, Cal. Automatic gear-shifter. No. 1,138,719; May 11; Gaz. vol. 214; p. 387.
- Adams, Alonzo T. (See Adams, John Q. and A. T.)
- Adams, Alonzo T., Moline, assignor, by mesne assignments, to Marseilles Company, East Moline, Ill. Elevator. No. 1,163,057; Dec. 7; Gaz. vol. 221; p. 112.
- Adams, Alonzo T., and J. Dain, Moline, assignors to Marseilles Company, East Moline, Ill. Grain-elevator. No. 1,161,758; Nov. 23; Gaz. vol. 220; p. 1309.
- Adams, Alva J., et al. (See Knowles, George H., assignor.)
- Adams, Arthur A., Brookline, assignor to National Binding Machine Company, Boston, Mass. Strip-serving device. No. 1,166,106; Dec. 28; Gaz. vol. 221; p. 1302.
- Adams, Arthur H. (See McBERTY and Adams.)
- Adams, Arthur H. (See Pfannenstiel and Adams.)
- Adams, Arthur H., Sparkill, assignor to Western Electric Company, New York, N. Y. Printing-machine. No. 1,128,649; Feb. 16; Gaz. vol. 211; p. 783.
- Adams, Arthur H., Sparkill, assignor to Western Electric Company, New York, N. Y. Apparatus for determining the speed of rotation of impulse-transmitters. No. 1,160,356; Nov. 16; Gaz. vol. 220; p. 769.
- Adams, Arthur H., Sparkill, assignor to Western Electric Company, New York, N. Y. Impulse-sending mechanism. No. 1,164,625; Dec. 21; Gaz. vol. 221; p. 746.
- Adams, Arthur H., Sparkill, assignor to Western Electric Company, New York, N. Y. Impulse-transmitting mechanism. No. 1,164,626; Dec. 21; Gaz. vol. 221; p. 747.
- Adams, Arthur S. (See Blaney, William, assignor.)
- Adams, Benjamin F., Albuquerque, N. Mex. Bath apparatus. No. 1,134,364; Apr. 6; Gaz. vol. 213; p. 102.
- Adams Brothers Company, The. (See Kwis, Joseph J., assignor.)
- Adams, Charles, trustee. (See Hobbs, Wilber A., assignor.)
- Adams, Charles, trustee. (See Kohman, Hoffman, and Godfrey, assignors.)
- Adams, Charles, Detroit, Mich. Automobile door opening and closing device. No. 1,150,090; Aug. 17; Gaz. vol. 217; p. 738.
- Adams, Charles, assignor of one-half to P. J. A. Schnoor, Holstein, Iowa. Dirigible head-lamps for vehicles. No. 1,134,089; Apr. 6; Gaz. vol. 213; p. 3.
- Adams, Charles, assignor of one-half to P. J. A. Schnoor, Holstein, Iowa. Head-lamps for vehicles. No. 1,134,090; Apr. 6; Gaz. vol. 213; p. 3.
- Adams, Charles J., Hatfield, W. Va. Caster. No. 1,136,915; Apr. 27; Gaz. vol. 213; p. 1123.
- Adams, Charles J., East Orange, and W. M. P. Taylor, Maplewood, N. J. Bath-tub fixture. No. 1,163,302; Dec. 7; Gaz. vol. 221; p. 198.
- Adams, Charley. (See Schnoor, Peter J. A., assignor.)
- Adams, Comfort A. (See Barker and Adams.)
- Adams, Daniel W., Glendale Springs, N. C. Turpentine-hack. No. 1,137,723; Apr. 27; Gaz. vol. 213; p. 1407.
- Adams, David, et al. (See Bradshaw, Ira J., assignor.)
- Adams, David, et al. (See Regan, Philip C., assignor.)
- Adams, Donnison B., assignor of one-half to E. B. Douglas, Minneapolis, Minn. Vehicle-spring with air-cushion. No. 1,140,095; May 18; Gaz. vol. 214; p. 911.
- Adams, Edward, and C. Niemitalo, Belden, N. D. Railway-crossing gate. No. 1,132,821; Mar. 23; Gaz. vol. 212; p. 1172.
- Adams, Edwin G., Medford, Mass. Waste-pipe stopper. No. 1,166,303; Dec. 28; Gaz. vol. 221; p. 1377.
- Adams, Egbert D., Sacramento, Cal. Sand or lawn chair. No. 1,162,540; Nov. 30; Gaz. vol. 220; p. 1628.
- Adams, Elmer L., Granite, Okla. Currycomb. No. 1,135,482; Apr. 13; Gaz. vol. 213; p. 538.
- Adams, Francesco, Clarke Station, Ind. Scrubbing-machine. No. 1,160,031; Nov. 9; Gaz. vol. 220; p. 602.
- Adams, Frank, Blenheim, New Zealand. Means for use in feeding sheep and cattle. No. 1,155,189; Sept. 28; Gaz. vol. 218; p. 1088.
- Adams, Frank A., Rochester, N. Y. Contracting device for piston-rings. No. 1,148,472; July 27; Gaz. vol. 216; p. 1293.
- Adams, Frank C., London, England. Artist's stippling-pen. No. 1,132,896; Mar. 23; Gaz. vol. 212; p. 1198.
- Adams, Frank C., assignor of one-fourth to H. R. Estel and one-fourth to S. Wilson, Yellow Springs, Ohio. Shock-absorber. No. 1,153,531; Sept. 14; Gaz. vol. 218; p. 453.

Alphabetical list of patentees—Continued.

- Adams, Frederick O. and J. F., Pittsburgh, Pa. Reflecting-heater. No. 1,132,822; Mar. 23; Gaz. vol. 212; p. 1173.
- Adams, Frederick R., Los Angeles, assignor to W. A. Plummer Manufacturing Company, San Francisco, Cal. Water-bag. No. 1,127,384; Feb. 9; Gaz. vol. 211; p. 291.
- Adams, Frederick U., Hastings-upon-Hudson, N. Y. Road bed and leveler. No. 1,136,916; Apr. 27; Gaz. vol. 213; p. 1123.
- Adams, Frederick U., Hastings-upon-Hudson, N. Y. Vehicle-tire. No. 1,152,470; Sept. 7; Gaz. vol. 218; p. 31.
- Adams, Harry S., and G. F. Wagener, Youngstown, Ohio. Reinforced-concrete tie. No. 1,147,132; July 20; Gaz. vol. 216; p. 794.
- Adams, Henry K., Nashville, Tenn. Apparatus for making rolled stay-bolts. No. 1,123,460; Jan. 5; Gaz. vol. 210; p. 90.
- Adams, Homer E., Fort Worth, Tex. Electric motor. No. 1,137,729; May 4; Gaz. vol. 214; p. 4.
- Adams, Jack, San Francisco, Cal. Fuel economizer and decarbonizer for internal-combustion engines. No. 1,138,828; May 11; Gaz. vol. 214; p. 427.
- Adams, James D., and A. G. Johnson, Monessen, Pa., assignors to Pittsburgh Steel Co. Reel. No. 1,137,730; May 4; Gaz. vol. 214; p. 4.
- Adams, James L., Jr., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical switch. No. 1,162,541; Nov. 30; Gaz. vol. 220; p. 1629.
- Adams, James T., Vernonia, Oreg. Electrocutting device. No. 1,165,485; Dec. 28; Gaz. vol. 221; p. 1086.
- Adams, James W., and W. Leach, Bradford, England. Valve for steam-engines. No. 1,148,425; July 27; Gaz. vol. 216; p. 1277.
- Adams, Joe B., and L. M. Miller, Cooper, Tex. Cotton-chopper. No. 1,132,543; Mar. 23; Gaz. vol. 212; p. 1067.
- Adams, John A., Nogales, Ariz. Combined automatic and straight air valve mechanism. No. 1,152,258; Aug. 31; Gaz. vol. 217; p. 1589.
- Adams, John M., Chicago, Ill. Metal bedstead. No. 1,130,873; Mar. 9; Gaz. vol. 212; p. 393.
- Adams, John M., Chicago, Ill. Caster-socket. No. 1,136,201; Apr. 20; Gaz. vol. 213; p. 832.
- Adams, John M., Chicago, Ill. Metal bedstead. No. 1,153,590; Sept. 14; Gaz. vol. 218; p. 475.
- Adams, John Q., Westmont, N. J. Device for viewing and magnifying lines, &c. No. 1,137,444; Apr. 27; Gaz. vol. 213; p. 1315.
- Adams, John Q., Marseilles, and A. T. Adams, Moline, assignors to Marseilles Company, East Moline, Ill. Feeder. No. 1,150,091; Aug. 17; Gaz. vol. 217; p. 738.
- Adams, Joseph, *et al.* (See Eckenwiler, George M., assignor.)
- Adams, Joseph F., St. Clair, Mich. Berry-box. No. 1,130,236; Mar. 2; Gaz. vol. 212; p. 137.
- Adams, Joseph F., St. Clair, Mich. Machine for making boxes. No. 1,160,558; Nov. 16; Gaz. vol. 220; p. 841.
- Adams, Julius E. (See Adams, Frederick O. and J. F.)
- Adams, Mary C., Atlantic City, N. J. Plate-lifter. No. 1,138,169; May 4; Gaz. vol. 214; p. 158.
- Adams-Randall, Charles, assignor to National Shawmut Bank, Boston, Mass., trustee. Head-support for telephone-receivers. No. 1,133,833; Mar. 30; Gaz. vol. 212; p. 1571.
- Adams, Richard C., Lone Wolf, Okla. Advertising device. No. 1,124,245; Jan. 12; Gaz. vol. 210; p. 405.
- Adams, Robert N., Richfield, Utah. Beet-harvester. No. 1,145,538; July 6; Gaz. vol. 216; p. 197.
- Adams, Roy E., Indianapolis, Ind. Grader. No. 1,133,251; Mar. 30; Gaz. vol. 212; p. 1363.
- Adams, Thomas D. (See Hyde and Adams.)
- Adams, Thomas P., assignor of one-half to L. Cooper, Chicago, Ill. Water-still. No. 1,148,273; July 27; Gaz. vol. 216; p. 1224.
- Adams, W. A. (See Adams, Wilber E., assignor.)
- Adams, Waldo P., Syracuse, N. Y. Light-projecting apparatus. No. 1,163,192; Dec. 7; Gaz. vol. 221; p. 161.
- Adams, Walter A., Rochester, N. Y., assignor to The Singer Manufacturing Company. Label-stitching machine. No. 1,151,846; Aug. 31; Gaz. vol. 217; p. 1448.
- Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Car-truck. No. 1,127,716; Feb. 9; Gaz. vol. 211; p. 408.
- Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Car-truck. No. 1,133,252; Mar. 30; Gaz. vol. 212; p. 1363.
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Bolster guide and damper. No. 1,135,483; Apr. 13; Gaz. vol. 213; p. 539.
- Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Bolster guide and damper. No. 1,150,322; Aug. 17; Gaz. vol. 217; p. 821.
- Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Car-truck. No. 1,157,971; Oct. 26; Gaz. vol. 219; p. 1044.
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,161,015; Nov. 23; Gaz. vol. 220; p. 1049.
- Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Sweeper for railway-tracks. No. 1,161,574; Nov. 23; Gaz. vol. 220; p. 1248.
- Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Car-truck. No. 1,162,201; Nov. 30; Gaz. vol. 220; p. 1512.
- Adams & Westlake Company, The. (See Getty and Eichel, assignors.)
- Adams & Westlake Company, The. (See Giese, James A., assignor.)
- Adams & Westlake Company, The. (See Hamm, William S., assignor.)
- Adams & Westlake Company, The. (See Krohn, Nels, assignor.)
- Adams & Westlake Company, The. (See Newpher, Alfred H., assignor.)
- Adams & Westlake Company, The. (See Willits, Ward W., assignor.)
- Adams, Wilber E., assignor to W. A. Adams, Detroit, Mich. Wheel dresser and truer. No. 1,144,277; June 22; Gaz. vol. 215; p. 1218.
- Adams, William A., Detroit, Mich. Dental casting apparatus. No. 1,124,099; Jan. 5; Gaz. vol. 210; p. 306.
- Adams, William C., Upland, Cal. Oil-burning orchard-heater. No. 1,144,986; July 6; Gaz. vol. 216; p. 3.
- Adams, William E., and C. B. Hall, Tulsa, Okla. Valve-motion mechanism. No. 1,144,987; July 6; Gaz. vol. 216; p. 3.
- Adamski, Zigman. (See Keen and Adamski.)
- Adamson, Alexander, Akron, Ohio. Collapsible core. No. 1,124,381; Jan. 12; Gaz. vol. 210; p. 455.
- Adamson, Alexander, Akron, Ohio. Collapsible core. No. 1,125,431; Jan. 19; Gaz. vol. 210; p. 866.
- Adamson, Alexander, Akron, Ohio. Vulcanizer-press. No. 1,128,831; Feb. 16; Gaz. vol. 211; p. 847.
- Adamson, Cecil F., East Palestine, Ohio, assignor to United States Rubber Company. Apparatus for vulcanizing tire-shoes. No. 1,150,922; Aug. 24; Gaz. vol. 217; p. 1086.
- Adamson, Charles E., Derby, Conn. Sad-iron. No. 1,128,567; Feb. 16; Gaz. vol. 211; p. 755.
- Adamson, Charles E., Buffalo, N. Y., assignor to Knapp Husker Company, Baltimore, Md. Duplicating or printing machine. No. 1,155,696; Oct. 5; Gaz. vol. 219; p. 129.
- Adamson, James P., St. Paul, Minn. Wall-radiator bracket. No. 1,158,151; Oct. 26; Gaz. vol. 219; p. 1106.
- Adamson, John W., Fullerton, Nebr. Means for protecting shores and directing the flow of watercourses. No. 1,146,229; July 13; Gaz. vol. 216; p. 459.
- Adamson, Oliver E., Grimes, Iowa. Resilient wheel. No. 1,155,332; Oct. 5; Gaz. vol. 219; p. 3.
- Adder Machine Company, The. (See Kling, Wilgus, and Bickford, assignors.)
- Adder Machine Company. (See Kuntzler, Henry, assignor.)
- Adder Machine Company, The. (See Wilgus, Charles V., assignor.)
- Adderson, James G., Renton, assignor to Denny-Renton Clay & Coal Co., Seattle, Wash. Forming paving-brick. No. 1,156,574; Oct. 12; Gaz. vol. 219; p. 461.
- Addicks, Lawrence, Douglas, Ariz. Recovering metals by electrolysis. No. 1,138,921; May 11; Gaz. vol. 214; p. 459.
- Addicks, Lawrence, Perth Amboy, and C. L. Brower, Chrome, N. J. Metallurgy of copper. No. 1,148,814; Aug. 3; Gaz. vol. 217; p. 119.
- Addis, Frederick H., Ajmer, India. Railway-carriage ventilator. No. 1,129,053; Feb. 23; Gaz. vol. 211; p. 961.
- Addograph Company. (See Crawley, Mansfield C., assignor.)
- Addometer Corporation. (See De Camp, Witsel R., assignor.)
- Addometer Corporation. (See Lotterhand, Jason C., assignor.) (Reissue.)
- Addessograph Company. (See Duncan, Joseph S., assignor.)
- Addessograph Company. (See Hughes, Davydd C., assignor.)
- Addessograph Company. (See Rogers, Russell N., assignor.)
- Addessograph Company. (See Wright, Walter, assignor.)
- Adelson, Benjamin, Cleveland, Ohio. Window-sash lock. No. 1,159,636; Nov. 9; Gaz. vol. 220; p. 462.
- Aderente, Eugene, Jersey City, N. J. Non-blinding device. No. 1,140,096; May 18; Gaz. vol. 214; p. 911.
- Aderer, Hugo, Bloomfield, N. J., assignor to J. F. Jelenko & Company, New York, N. Y. Bending apparatus. No. 1,141,858; June 1; Gaz. vol. 215; p. 268.
- Aderer, Hugo, Bloomfield, N. J., assignor to J. F. Jelenko & Company, New York, N. Y. Electroplating apparatus. No. 1,148,272; July 27; Gaz. vol. 216; p. 1223.
- Aderer, Julius, New York, N. Y. Pliers. No. 1,141,916; June 8; Gaz. vol. 215; p. 329.
- Adickes, Henning F., Jr., deceased, Baltimore, N. C.; H. F. Adickes, Sr., executor. Sash-fastener. No. 1,159,637; Nov. 9; Gaz. vol. 220; p. 462.
- Adjusta Company. (See Hirsch, Fred, assignor.)
- Adkins, Oscar E., Columbus, Ohio, assignor to J. W. Wolfe, Monongah, W. Va., and J. Kelly, Columbus, Ohio. Amusement device. No. 1,142,387; June 8; Gaz. vol. 215; p. 495.

Alphabetical list of patentees—Continued.

- Adkins, Spencer, Minneapolis, Minn. Coffee-pot. No. 1,165,376; Dec. 28; Gaz. vol. 221; p. 1047.
- Adler, Bror A., assignor of one-half to P. A. Lorenz, Chicago, Ill. Folding chair. No. 1,135,647; Apr. 13; Gaz. vol. 213; p. 598.
- Adler, Bror A., assignor of one-half to P. A. Lorenz, Chicago, Ill. Horological motor. No. 1,144,748; June 29; Gaz. vol. 215; p. 1407.
- Adler, De Witt S., Allston, Mass., assignor to The Metalite Company, Inc. Adjustable holder for pocket electric lamps. No. 1,144,087; June 22; Gaz. vol. 215; p. 1150.
- Adler, Eli, Buffalo, N. Y. Safety beam-grip. No. 1,128,277; Feb. 16; Gaz. vol. 211; p. 657.
- Adler, Eugene, Pittsburgh, Pa. Motor-driven tractor. No. 1,165,930; Dec. 28; Gaz. vol. 221; p. 1240.
- Adler, Harry, Melville, Johannesburg, South Africa. Hood for motor-buses and other vehicles. No. 1,146,745; July 13; Gaz. vol. 216; p. 639.
- Adler, Herman S. Z., New York, N. Y. Robe for automobiles. No. 1,164,445; Dec. 14; Gaz. vol. 221; p. 644.
- Adler, Jacob, Ridgefield Park, N. J. Coating composition and wooden articles. No. 1,147,066; July 20; Gaz. vol. 216; p. 772.
- Adler, Morton L., New York, N. Y. Register for pool or billiard tables. No. 1,154,226; Sept. 21; Gaz. vol. 218; p. 727.
- Adler, Rudolf, assignor to Naamlooze Vennootschap Algemeene Uitvindende Exploitatie Maatschappij, Amsterdam, Netherlands. Making animal charcoal. No. 1,151,553; Aug. 31; Gaz. vol. 217; p. 1347.
- Adler, Siegfried, assignor to Common Sense Novelty Company, Chicago, Ill. Display device. No. 1,135,484; Apr. 13; Gaz. vol. 213; p. 539.
- Adler, Stephen O. (See Trysna, Josef, assignor.)
- Adolfson, John A., Duluth, Minn. Spring-wheel. No. 1,160,119; Nov. 16; Gaz. vol. 220; p. 687.
- Adreon, Robert E., assignor to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Automatic train-pipe coupling. No. 1,130,694; Mar. 9; Gaz. vol. 212; p. 333.
- Adrianse, Benjamin. (See Calleson, Amos, assignor.)
- Adsit, Charles W., Owatonna, Minn. Acetylene-gas generator. No. 1,132,143; Mar. 16; Gaz. vol. 212; p. 875.
- Adt, Leo F. (See Silbert, Herman, assignor.)
- Adt, Leo F., Albany, N. Y. Spectacles. No. 1,145,454; July 6; Gaz. vol. 216; p. 168.
- Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,150,845; Aug. 24; Gaz. vol. 217; p. 1061.
- Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,154,743; Sept. 28; Gaz. vol. 218; p. 933.
- Adt, Otto. (See Steiner and Adt.)
- Advance Machine Co. (See Antoine and Travis, assignors.)
- Advance Manufacturing Company, The. (See Holmes, Roy N., assignor.)
- Advance Manufacturing Company. (See Jack, Robert E., assignor.)
- Advance Mfg. Co. (See Barnes, Edward M., assignor.)
- Advertising Device Company. (See Birdsall, James E., assignor.)
- Adzit Company, The. (See Harris, Carl C., assignor.)
- Aebi, Charles J. (See Dodson and Aebi.)
- Aeolian Company, The. (See Empson, Frederick J., assignor.)
- Aeolian Company. (See Kelly, George B., assignor.)
- Aeolian Company, The. (See Votey, Edwin S., assignor.)
- Aeolian Company. (See Waters, Samuel S., assignor.)
- Aeolian Company. (See Young, Francis L., assignor.)
- Aerators Limited. (See Read, Harry V., assignor.)
- Aerial Tramway Company. (See Shaw, Frank M., assignor.)
- Aermotor Company. (See Noyes, La Verne, assignor.)
- Aermotor Company. (See Scholes, Daniel R., assignor.)
- Aero Fire Alarm Company. (See White, John W., assignor.)
- Aeroplane Destroyer Company. (See Lazarte, Enrique, assignor.)
- Aetna Foundry and Machine Company, The. (See Moore, William G., assignor.)
- Affolter, Emil. (See Richardson, Paul, assignor.)
- Africa, Elmer M., Huntingdon, Pa., and B. E. McSheehy, Nutley, N. J., assignors to J. C. Blair Company, Huntingdon, Pa. Tablet or the like. No. 1,139,394; May 11; Gaz. vol. 214; p. 625.
- Agar, Calvin A., East Orange, N. J. Easel. No. 1,134,802; Apr. 6; Gaz. vol. 213; p. 262.
- Agar, Calvin A., East Orange, N. J. Shipping-crate. No. 1,140,231; May 18; Gaz. vol. 214; p. 956.
- Agasote Millboard Co., The. (See Sutherland, Daniel M., Jr., assignor.)
- Agee, Eva J., Washington, D. C. Front post for corsets. No. 1,150,726; Aug. 17; Gaz. vol. 217; p. 961.
- Agner, Charles, Jr., Philadelphia, Pa. Phonograph. No. 1,162,202; Nov. 30; Gaz. vol. 220; p. 1513.
- Agnes, Barthel, Chicago, Ill. Tailor's measuring appliance. No. 1,148,135; July 27; Gaz. vol. 216; p. 1176.
- Agnew Electric Welding Company. (See Agnew, Ray F., assignor.)
- Agnew, John W. (See Frum, Creed C., assignor.)
- Agnew, Omer, Portland, Oreg. Wrench. No. 1,137,942; May 4; Gaz. vol. 214; p. 76.
- Agnew, Ray F., Cleveland, Ohio, assignor to Agnew Electric Welding Company, Detroit, Mich. Electrical transformer. No. 1,160,357; Nov. 16; Gaz. vol. 220; p. 769.
- Agricultural Research Corporation. (See Peacock, Samuel, assignor.)
- Ahara, Edwin H., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Driving-clutch and guard. No. 1,130,237; Mar. 2; Gaz. vol. 212; p. 137.
- Ahearn, Harold H. H., Wellington, New Zealand. Loose-leaf book and the like. No. 1,131,648; Mar. 16; Gaz. vol. 212; p. 695.
- Ahearn, Michael, Denver, Colo. Stone-cutting machine. No. 1,137,731; May 4; Gaz. vol. 214; p. 4.
- Ahern, Albert M., St. Louis, Mo. Smoke-producing device for routing wild animals. No. 1,140,015; May 18; Gaz. vol. 214; p. 882.
- Ahern, Michael V. (See Wainwright and Ahern.)
- Ahern, Michael V., assignor of one-half to F. Dawkins, Norfolk, Va. Device for sealing envelopes. No. 1,135,932; Apr. 13; Gaz. vol. 213; p. 695.
- Ahern, William E., Westfield, Mass. Decarbonizing internal-combustion engines. No. 1,160,682; Nov. 16; Gaz. vol. 220; p. 888.
- Ahlberg, Gustav A. F., Chicago, Ill. Carbureter. No. 1,138,829; May 11; Gaz. vol. 214; p. 428.
- Ahlborn, Mattie E., Dayton, Ohio. Head and back rest. No. 1,156,125; Oct. 12; Gaz. vol. 219; p. 304.
- Ahlborn, Theodore, Chicago, Ill. Mixing apparatus. No. 1,127,150; Feb. 2; Gaz. vol. 211; p. 171.
- Ahlburg, Frank, Fairbanks, Alaska. Marking fruit. No. 1,151,506; Aug. 24; Gaz. vol. 217; p. 1284.
- Ahlburg, Frank, Fairbanks, Alaska. Marking fruit. No. 1,151,507; Aug. 24; Gaz. vol. 217; p. 1284.
- Ahlen, William. (See Diehl and Ahlen.)
- Ahlen, William. (See Williams and Ahlen.)
- Ahlert, Henry, et al. (See Paprian, Ignace, assignor.)
- Ahlhelm, Edward C., Mansfield, Ohio. Rolling-pin. No. 1,158,111; Oct. 26; Gaz. vol. 219; p. 1092.
- Ahlm, Charles E. F., assignor to M. S. Towson, Cleveland, Ohio. Dynamo-electric machine. No. 1,132,144; Mar. 16; Gaz. vol. 212; p. 875.
- Ahlm, Charles E. F., assignor to M. S. Towson, Cleveland, Ohio. Dynamo-electric machine. No. 1,132,145; Mar. 16; Gaz. vol. 212; p. 875.
- Ahlm, Charles E. F., and C. E. Cochran, Cleveland, Ohio. Internal-combustion turbine. No. 1,135,648; Apr. 13; Gaz. vol. 213; p. 598.
- Ahlstrom, Charles A., Jamestown, N. Y. Music-roll for mechanical musical instruments. No. 1,136,577; Apr. 20; Gaz. vol. 213; p. 967.
- Ahlstrom, Charles A., Jamestown, N. Y. Music-roll for mechanical musical instruments. No. 1,149,317; Aug. 10; Gaz. vol. 217; p. 399.
- Ahrens, Henry A., assignor to The H. Franke Steel Range Company, Cleveland, Ohio. Cooking-range. No. 1,141,748; June 1; Gaz. vol. 215; p. 233.
- Ahrens, Werner, Berlin, Germany. Antifriction-bearing. No. 1,131,649; Mar. 16; Gaz. vol. 212; p. 695.
- Ahrens, Werner, Tegel, Germany. Antifriction-bearing. No. 1,151,847; Aug. 31; Gaz. vol. 217; p. 1449.
- Ahrens, William H., Canandaigua, N. Y. Sleet-cutter for trolley-wires. No. 1,154,828; Sept. 28; Gaz. vol. 218; p. 963.
- Ahrle, Hermann. (See Rovira and Ahrle.)
- Aiazzi, Pietro, Winnemucca, Nev. Spike-extractor. No. 1,156,870; Oct. 19; Gaz. vol. 219; p. 593.
- Aichele, Albert, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Prevention of disturbing vibration. No. 1,161,575; Nov. 23; Gaz. vol. 220; p. 1248.
- Aichele, Albert, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Liquid resistance. No. 1,161,576; Nov. 23; Gaz. vol. 220; p. 1248.
- Aicher, Gustav A., and S. Lazar, assignors to National Paper Products Co., San Francisco, Cal. Drawing and cutting machine for paper towels. No. 1,153,183; Sept. 14; Gaz. vol. 218; p. 327.
- Aiken, Edward L. (See Aylsworth and Aiken.)
- Aiken, Edward L., Springfield, Mass. Screw-driver and other tool. No. 1,158,765; Nov. 2; Gaz. vol. 220; p. 125.
- Aiken, Herrick, Lawrence, Mass., assignor, by mesne assignments, to Aiken Lamp Company, Franklin, N. H. Lamp-socket. No. 1,144,956; June 29; Gaz. vol. 215; p. 1477.
- Aiken Lamp Company. (See Aiken, Herrick, assignor.)
- Aiken Lamp Company. (See Ramsey, James C., Jr., assignor.)
- Aiken, Thomas M., Pittsburgh, Pa. Fruit and vegetable slicer. No. 1,156,652; Oct. 12; Gaz. vol. 219; p. 488.
- Alkman, Burton S., Chicago, Ill., assignor to National Brake & Electric Company, Milwaukee, Wis. Pneumatic governor. No. 1,153,879; Sept. 21; Gaz. vol. 218; p. 609.
- Alkman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Brake-valve device. No. 1,156,871; Oct. 19; Gaz. vol. 219; p. 593.
- Aiman, Roland B., Pendleton, Ind. Go-cart. No. 1,129,054; Feb. 23; Gaz. vol. 211; p. 961.
- Aimond, Emile, Paris, France. Elastic wheel. No. 1,155,865; Oct. 5; Gaz. vol. 219; p. 189.

- Aine, Harry E., Richmond, Cal. Machine for winding pipes or pipe-coverings. No. 1,137,943; May 4; Gaz. vol. 214; p. 77.
- Aine, Harry E., Richmond, Cal. Machine for double-winding pipes or pipe-coverings. No. 1,146,912; July 20; Gaz. vol. 216; p. 717.
- Ains, Napoleon L., Chicopee, Mass. Drill for boring gun-barrels. No. 1,144,088; June 22; Gaz. vol. 215; p. 1150.
- Ainslie, Albert E., Brashear, Mo. Resiliently-attached but removable cap for oil-cans. No. 1,154,829; Sept. 28; Gaz. vol. 218; p. 963.
- Ainsworth, Chester D., Worcester, Mass. Electric-wave detector. No. 1,145,735; July 6; Gaz. vol. 216; p. 267.
- Ainsworth, George R., Great Neck, assignor to E. F. Caldwell & Co., New York, N. Y. Electric-lamp-shade holder. No. 1,125,629; Jan. 19; Gaz. vol. 210; p. 935.
- Ainsworth, Mark, assignor of one-half to G. S. Kieffer, Kansas City, Mo. Flushing-tank. No. 1,151,148; Aug. 24; Gaz. vol. 217; p. 1164.
- Ainsworth, Robert G., Denver, Colo. Surveyor's transit. No. 1,132,236; Mar. 16; Gaz. vol. 212; p. 909.
- Air Friction Carburetor Company, The. (See Raymond, John W., assignor.)
- Air Turbine Company of America. (See Clade, Robert, assignor.)
- Airhart, Noah S., Denison, Tex., and E. H. Gold, Chicago, Ill. Broom or brush. No. 1,131,890; Mar. 16; Gaz. vol. 212; p. 782.
- Airolabst Corporation, The. (See Schwenger, Ben, assignor.)
- Aitken, Andrew W., assignor to Austin Manufacturing Company, Chicago, Ill. Transmission-bearing for road-rollers. No. 1,132,544; Mar. 23; Gaz. vol. 212; p. 1068.
- Aitken, Hugh W., Glasgow, Scotland. Pressure-regulating device for the rollers of sugar-cane mills. No. 1,149,802; Aug. 10; Gaz. vol. 217; p. 573.
- Aitken, William, Liverpool, England. Telephone system. No. 1,143,680; June 22; Gaz. vol. 215; p. 1009.
- Aitken, William, London, England, assignor to The Relay Automatic Telephone Company, Limited. Electrical-impulse transmitter. No. 1,150,007; Aug. 17; Gaz. vol. 217; p. 709.
- Ajax Manufacturing Company. (See Wright, Wilbur L., assignor.)
- Ajax Universal Joint Company, The. (See Sponsel, Charles W., assignor.)
- Ajek, Alex. (See Jambor, Steve, assignor.)
- Akans, George, Atlanta, Ga., assignor to said George Akans, trustee. Fluid-actuated motor. No. 1,156,855; Oct. 12; Gaz. vol. 219; p. 559.
- Akeley Camera, Inc. (See Akeley, Carl E., assignor.)
- Akeley, Carl E., New York, N. Y. Film-box for motion-picture cameras. No. 1,159,732; Nov. 9; Gaz. vol. 220; p. 496.
- Akeley, Carl E., New York, N. Y. Finding and focusing device for motion-picture cameras. No. 1,159,733; Nov. 9; Gaz. vol. 220; p. 496.
- Akeley, Carl E., assignor to Akeley Camera, Inc., New York, N. Y. Combined finding and focusing device for cameras. No. 1,159,731; Nov. 9; Gaz. vol. 220; p. 496.
- Akeley, Carl E., assignor to Akeley Camera, Inc., New York, N. Y. Panorama device for motion-picture cameras. No. 1,159,734; Nov. 9; Gaz. vol. 220; p. 497.
- Akemann, Walther, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electrical apparatus for transmitting signals. No. 1,166,034; Dec. 28; Gaz. vol. 221; p. 1276.
- Aken, Edward R., et al. (See Degenhardt, John J., assignor.)
- Aken, Raleigh B., et al. (See Degenhardt, John J., assignor.)
- Aker, Chelsea R. (See Malm, Raub, and Aker.)
- Akerhielm, Albert, assignor, by mesne assignments, to Uni-Motion Door Handle Co., Chicago, Ill. Door-catch-operating mechanism. No. 1,158,881; Nov. 2; Gaz. vol. 220; p. 166.
- Akers, Harry G., Toronto, Ontario, Canada. Rotary furnace. No. 1,130,953; Mar. 9; Gaz. vol. 212; p. 420.
- Akers, Joseph G., and J. Britsch, Philadelphia, Pa. Globe-holder. No. 1,133,905; Mar. 30; Gaz. vol. 212; p. 1596.
- Akers, Maurice L., Pendleton, Ore. Adjustable platform for harvesting-machines. No. 1,144,679; June 29; Gaz. vol. 215; p. 1382.
- Akimoff, Nicholas W., Philadelphia, Pa., assignor to American Blower Company, Green Island, N. Y. Centrifugal fan or pump. No. 1,165,931; Dec. 28; Gaz. vol. 221; p. 1241.
- Akin, Willis H., assignor of one-fourth to C. F. Moyer and one-fourth to A. J. Bateman, Falconer, N. Y. Film-rewinding mechanism. No. 1,156,025; Oct. 5; Gaz. vol. 219; p. 243.
- Akins, Edwin J., Moundsville, W. Va. Road-building machine. No. 1,161,016; Nov. 23; Gaz. vol. 220; p. 1049.
- Akins, Edwin J., Moundsville, W. Va. Overshoe-retainer. No. 1,161,017; Nov. 23; Gaz. vol. 220; p. 1050.
- Akins, Randall P., assignor to Colorado Iron Works Company, Denver, Colo. Vibrating screen. No. 1,160,812; Nov. 16; Gaz. vol. 220; p. 932.
- Akro-Agate Company, The. (See Hill, Horace C., assignor.)
- Akron Motor Lock Co., The. (See Dugan and Smith, assignors.)
- Aktiebolaget Adderator. (See Wiberg, Helge A., assignor.)
- Aktiebolaget Astra, Apotekarnas Kemiska Fabriker. (See Euler-Chelpin, Hans K. A. S. von, assignor.)
- Aktiebolaget Baltic. (See Johansson and Risberg, assignors.)
- Aktiebolaget Baltic. (See Risberg, Johannes V. M., assignor.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungström, Birger, assignor.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)
- Aktiebolaget Lux. (See Lindblom, Carl G., assignor.)
- Aktiebolaget Lux. (See Rustige, Frans J. H., assignor.)
- Aktiebolaget Princeps. (See Lagerman and Lindström, assignors.)
- Aktiebolaget Princeps. (See Lindström, Gustaf H., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Fjellman, Bengt W., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Henning A., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Sörensen, Carl A. T., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Wieselgreen, Carl E., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Wingquist, Sven G., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (Reissue.) (See Wingquist, Sven G., assignor.)
- Aktiebolaget Svenska Kullagerfabriken Safve Strandgata. (See Wingquist, Sven G., assignor.) (Reissue.)
- Aktiebolaget Wigelius Motorer. (See Wigelius, Sven G., assignor.)
- Aktien-Gesellschaft für Kohlendestillation. (See Collin, Francis J., assignor.)
- Aktiengesellschaft Brown Boveri & Cie. (See Aichele, Albert, assignor.)
- Aktiengesellschaft Brown Boveri & Cie. (See Buchli, Jacob, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Jonas, Julius, assignor.)
- Aktiengesellschaft Brown Boveri & Cie. (See Rebstein, Jakob, assignor.)
- Aktiengesellschaft Brown Boveri & Cie. (See Roebel, Ludwig, assignor.)
- Aktiengesellschaft der Eisen- und Stahlwerke vorm. Georg Fischer. (See Künzi, Karl, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Keller, Huldreich, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher, Wyss & Cie. (See Ruegger, Eduard, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Schlumpf, Edwin, assignor.)
- Aktiengesellschaft des Eisen- und Stahlwerke vorm. Georg Fischer. (See Künzi, Karl, assignor.)
- Aktiengesellschaft für patentierte Korksteinfabrikation und Korkstein-Bauten vormals Kleiner & Bokmayer. (See Metz and Hornstein, assignors.)
- Aktiengesellschaft Porzellanfabrik Weiden, Gebrüder Bauscher. (See Eckstein, Christian, assignor.)
- Aktieselskabet Dansk Svovlsyre- & Superphosphatfabrik. (See Warming, Kai, assignor.)
- Aktieselskabet Drivremme-fabriken "Dana." (See Kochmann and Seldal, assignors.)
- Aktieselskabet Vermehrens Regnemaskiner. (See Vermehren, Johannes, assignor.)
- Alanchikoff, Leonid, Philadelphia, Pa. Combination-padlock. No. 1,147,133; July 20; Gaz. vol. 216; p. 794.
- Alary, Alphonse, St. Casimir, Quebec, Canada. Automatic crossing-gate. No. 1,125,925; Jan. 26; Gaz. vol. 210; p. 1072.
- Alary, Alphonse, St. Casimir, Quebec, Canada. Railway-gate. No. 1,127,385; Feb. 9; Gaz. vol. 211; p. 291.
- Alaska Hydraulic Motor Company. (See Osterholtz, Frederick J., assignor.)
- Alban, Hyman, Chicago, Ill. Pocket. No. 1,133,906; Mar. 30; Gaz. vol. 212; p. 1596.
- Albanese, Gaetano, New York, N. Y. Permutation-lock. No. 1,158,152; Oct. 26; Gaz. vol. 219; p. 1107.
- Albanese, Gaetano, New York, N. Y. Grater for culinary use. No. 1,158,153; Oct. 26; Gaz. vol. 219; p. 1107.
- Albenart Company. (See Richards, Benjamin, assignor.)
- Alber, James G., assignor to The Guggenheim Laundry Machinery Company, Cleveland, Ohio. Ironing-press. No. 1,145,958; July 13; Gaz. vol. 216; p. 363.
- Alberger Pump and Condenser Company. (See Ray, Frederick, assignor.)
- Albert, Charles H., assignor to The Hartmann Trunk Company, Racine, Wis. Gang-punch. No. 1,164,158; Dec. 14; Gaz. vol. 221; p. 543.
- Albert and J. M. Anderson Manufacturing Company. (See Andersen, Johan M., assignor.)
- Albert, Sylvain J., Paris, France. Mechanotherapeutic apparatus. No. 1,166,304; Dec. 28; Gaz. vol. 221; p. 1377.
- Albert, William H. (See Boots, Israel F., assignor.)

Alphabetical list of patentees—Continued.

- Alberti, Emilio, and N. J. Miano, New York, assignors to International Cork Company, Brooklyn, N. Y. Automatic apparatus for feeding caps or crowns. No. 1,161,577; Nov. 23; Gaz. vol. 220; p. 1248.
- Albertson, Abram H. (See Field and Albertson.)
- Albertson, Anton, Minot, N. D. Flange-oiler. No. 1,154,156; Sept. 21; Gaz. vol. 218; p. 704.
- Albertson, George H., Pittsburgh, Pa. Deodorizing device. No. 1,130,681; Mar. 2; Gaz. vol. 212; p. 293.
- Albracht, Anton J., and J. Wessel, Lindsay, Nebr. Farm machinery. No. 1,138,720; May 11; Gaz. vol. 214; p. 388.
- Albrecht, Christian A., Berlin, Germany, assignor to The Mergenthaler Linotype Company. Typographical machine. No. 1,135,423; Apr. 13; Gaz. vol. 213; p. 518.
- Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,142,221; June 8; Gaz. vol. 215; p. 436.
- Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company. Distributing mechanism of typographical composing-machines. No. 1,142,222; June 8; Gaz. vol. 215; p. 436.
- Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company. Galley mechanism for repeating and non-repeating line-casting machines. No. 1,153,880; Sept. 21; Gaz. vol. 218; p. 609.
- Albrecht, Guido J., assignor to Long Mailing Machine Company, Minneapolis, Minn. Envelop-sealing machine. No. 1,125,926; Jan. 26; Gaz. vol. 210; p. 1073.
- Albrecht, Guido J., assignor to Long Mailing Machine Company, Minneapolis, Minn. Envelop-sealing machine. No. 1,125,927; Jan. 26; Gaz. vol. 210; p. 1073.
- Albrecht, Guido J., assignor to Long Mailing Machine Company, Minneapolis, Minn. Envelop-sealing machine. No. 1,146,746; July 13; Gaz. vol. 216; p. 639.
- Albrecht, Guido J., and S. L. Long, assignors to Long Mailing Machine Company, Minneapolis, Minn. Envelop-sealing machine. No. 1,144,955; June 29; Gaz. vol. 215; p. 1477.
- Albrecht, John H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,152,376; Aug. 31; Gaz. vol. 217; p. 1633.
- Albrecht, Martin, Frankfort-on-the-Main, Germany. Miner's safety-lamp. No. 1,153,003; Sept. 7; Gaz. vol. 218; p. 229.
- Albrecht, Nunnally H., assignor of one-half to W. A. Baldwin, Dawson, Ga. Game. No. 1,148,944; Aug. 3; Gaz. vol. 217; p. 163.
- Albrecht, Wilhelm, Boston, Mass. Apparatus for preventing waste. No. 1,124,246; Jan. 12; Gaz. vol. 210; p. 405.
- Albrecht, William F. (See Shebol and Albrecht.)
- Albree, Chester B., Pittsburgh, Pa. Grating. No. 1,158,154; Oct. 26; Gaz. vol. 219; p. 1108.
- Albridge, James W. (See Ryan, John A., assignor.)
- Albright, Arbannes S., Gainesville, Fla. Automobile-jack. No. 1,131,891; Mar. 16; Gaz. vol. 212; p. 782.
- Albright, Arbannes S., Gainesville, Fla. Automobile-jack. No. 1,142,655; June 8; Gaz. vol. 215; p. 587.
- Albright, Eugene C., Marion, Ohio. Fountain-scrubber. No. 1,147,667; July 20; Gaz. vol. 216; p. 983.
- Albright, William. (See Vandegriff, William G., assignor.)
- Albro-Clem Elevator Company. (See Mechling, Benjamin F., Jr., assignor.)
- Alcan, Félix, Zanesville, Ohio, assignor to American Encaustic Tiling Company, Ltd., New York, N. Y. Means for setting mosaics. No. 1,133,604; Mar. 30; Gaz. vol. 212; p. 1488.
- Alcemo Manufacturing Company. (See Harris, Earl A., assignor.)
- Alcorn, Robert E., Lake Village, Ark. Tool-handle connection. No. 1,128,650; Feb. 16; Gaz. vol. 211; p. 783.
- Aldehoff, Hermann, Berlin, Germany. Roll-mill for hard materials. No. 1,133,212; Mar. 23; Gaz. vol. 212; p. 1313.
- Alden, Arthur B., *et al.* (See Brown, Harold A., assignor.)
- Alden, Charles A., Steelton, Pa. Railway switch-stand. No. 1,124,576; Jan. 12; Gaz. vol. 210; p. 525.
- Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle-brake. No. 1,135,148; Apr. 13; Gaz. vol. 213; p. 425.
- Alden, John S., deceased; W. Alden, administrator, assignor of one-half to B. L. Kline, Van, Pa. Safety-envelop. No. 1,152,364; Aug. 31; Gaz. vol. 217; p. 1629.
- Alden, Walter J. (See Task, Henry, assignor.)
- Alden, Wm., administrator. (See Alden, John S.)
- Aldendorff, Fritz, Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Automatic telephone-exchange system for subscribers' lines with extension sets. No. 1,130,697; Mar. 9; Gaz. vol. 212; p. 333.
- Aldendorff, Fritz, Vieux Dieu, near Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Selector for machine-switching telephone systems. No. 1,131,811; Mar. 16; Gaz. vol. 212; p. 755.
- Aldendorff, Fritz, Mortsel, near Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Conversation-registering circuits for machine-switching telephone systems. No. 1,147,997; July 27; Gaz. vol. 216; p. 1124.
- Alderfer, John M., Sharon Center, Ohio. Shipping-crate. No. 1,135,485; Apr. 13; Gaz. vol. 213; p. 539.
- Aldrich, Alonzo, Beloit, Wis. Paper-drying machine. No. 1,139,625; May 18; Gaz. vol. 214; p. 742.
- Aldrich, Chester S., assignor of one-half to E. Gray, Boston, Mass. Windlass-operating mechanism. No. 1,150,800; Aug. 17; Gaz. vol. 217; p. 986.
- Aldrich, Edward B., *et al.* (See Waddell, Montgomery, assignor.)
- Aldrich, Frank, assignor of one-half to J. M. Nicol, Detroit, Mich. Garbage-container. No. 1,131,102; Mar. 9; Gaz. vol. 212; p. 472.
- Aldrich, William H., Pasadena, Cal. Carbonaceous fuel. No. 1,124,382; Jan. 12; Gaz. vol. 210; p. 455.
- Aldrich, William O., assignor to The Whitin Machine Works, Whitinsville, Mass. Roving-creel. No. 1,156,451; Oct. 12; Gaz. vol. 219; p. 417.
- Aldridge, Andrew J., *et al.* (See Beck, Washington, assignor.)
- Aldridge, Harry G., Rochester, N. Y. Closure for milk bottles or jars. No. 1,157,282; Oct. 19; Gaz. vol. 219; p. 740.
- Aldridge, Thomas, Griffith, Ind. Spot-board. No. 1,124,247; Jan. 12; Gaz. vol. 210; p. 406.
- Aldridge, Thomas J., Rochester, N. Y. Garment-stretching device. No. 1,153,150; Sept. 7; Gaz. vol. 218; p. 276.
- Alefs, Daniel, Great Bend, Kans. Valve-lifter. No. 1,158,618; Nov. 2; Gaz. vol. 220; p. 74.
- Aleman, Joaquin, assignor to Havana Commercial Company, Habana, Cuba. Machine for banding packages. No. 1,151,429; Aug. 24; Gaz. vol. 217; p. 1256.
- Alemite Metals Company. (See Goldberg, John S., assignor.)
- Alenius, Carl G., Meadowlands, Minn. Steam cut-off. No. 1,152,589; Sept. 7; Gaz. vol. 218; p. 78.
- Aleshire, David F., Minden Mines, Mo. Wagon running-gear. No. 1,158,155; Oct. 26; Gaz. vol. 219; p. 1108.
- Alexalite Company, The. (See Alexander, Harry, assignor.)
- Alexander, Albert D., Fredericksburg, Va. Pad-machine. No. 1,164,591; Dec. 14; Gaz. vol. 221; p. 693.
- Alexander, Albert O., Franklin, N. H. Fish-holding frame. No. 1,132,417; Mar. 16; Gaz. vol. 212; p. 974.
- Alexander, Alexander M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Insole-reinforcing machine. No. 1,143,016; June 15; Gaz. vol. 215; p. 753.
- Alexander, Alexander M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lubricating friction-surfaces. No. 1,157,358; Oct. 19; Gaz. vol. 219; p. 766.
- Alexander, Alexander M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lubricating apparatus. No. 1,157,359; Oct. 19; Gaz. vol. 219; p. 767.
- Alexander, Alexander M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lubricating apparatus. No. 1,157,360; Oct. 19; Gaz. vol. 219; p. 767.
- Alexander, Bernard C., *et al.* (See Burrow, Edgar A., assignor.)
- Alexander, Chris Z., Redwood City, Cal. Barber's accessory. No. 1,152,870; Sept. 7; Gaz. vol. 218; p. 180.
- Alexander, Clinton B., Washington, D. C. Loose-leaf binder. No. 1,165,305; Dec. 21; Gaz. vol. 221; p. 983.
- Alexander, Edward R., Cleveland, Ohio. Radiator-indicator attaching and positioning mechanism. No. 1,162,673; Nov. 30; Gaz. vol. 220; p. 1669.
- Alexander, Elizabeth A., assignor to C. A. Herle, Rochester, N. Y. Dust-cap for tire-valves. No. 1,161,578; Nov. 23; Gaz. vol. 220; p. 1249.
- Alexander, Francis M., Winterset, Iowa. Truck. No. 1,150,727; Aug. 17; Gaz. vol. 217; p. 961.
- Alexander, Harry, assignor to The Alexalite Company, New York, N. Y. Illuminating device. No. 1,129,438; Feb. 23; Gaz. vol. 211; p. 1096.
- Alexander, Henry B., assignor of one-half to W. H. Esdohr, Los Angeles, Cal. Making germ and bread. No. 1,148,815; Aug. 3; Gaz. vol. 217; p. 120.
- Alexander, James S., Los Angeles, Cal. Combined chair and folding table-top. No. 1,145,455; July 6; Gaz. vol. 216; p. 169.
- Alexander, Jesse, assignor of one-half to G. W. Potter, Brooklyn, N. Y. Type-bar-operating mechanism. No. 1,150,801; Aug. 17; Gaz. vol. 217; p. 986.
- Alexander, Jesse, assignor of one-half to G. W. Potter, Brooklyn, N. Y. Type-writing-machine ribbon feeding and operating mechanism. No. 1,163,580; Dec. 7; Gaz. vol. 221; p. 295.
- Alexander, Jesse W., Birmingham, Ala. Concrete-wall mold. No. 1,142,388; June 8; Gaz. vol. 215; p. 495.
- Alexander, Joseph D., *et al.* (See Wood, Charles R., assignor.)
- Alexander, Olin M., Anniston, Ala. Friction-clutch. No. 1,139,249; May 11; Gaz. vol. 214; p. 574.

Alphabetical list of patentees—Continued.

- Alexander, Solomon, assignor of one-half to O. C. Mitchell, Long Beach, Cal. Foot-protector for shoe-wearing animals. No. 1,129,774; Feb. 23; Gaz. vol. 211; p. 1209.
- Alexander, W. B. D. (See Johnson, Wilfred G., assignor.)
- Alexander, Walter, New York, N. Y. Paint-remover composition. No. 1,143,877; June 22; Gaz. vol. 215; p. 1076.
- Alexander, Walter, New York, N. Y. Paint-remover. No. 1,143,878; June 22; Gaz. vol. 215; p. 1076.
- Alexander, Warren A., *et al.* (See Kendall, William S., assignor.)
- Alexander, William L., Omega, Okla. Combined vehicle axle and wheel. No. 1,125,432; Jan. 19; Gaz. vol. 210; p. 867.
- Alexander, Wilson H., Philadelphia, Pa. Shipping-can. No. 1,131,650; Mar. 16; Gaz. vol. 212; p. 695.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. High-frequency alternator. No. 1,126,334; Jan. 26; Gaz. vol. 210; p. 1222.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. No. 1,150,652; Aug. 17; Gaz. vol. 217; p. 936.
- Alexandrowsky, Wladimir, and A. Slobinski, St. Petersburg, Russia. Pneumatic wheel. No. 1,143,565; June 15; Gaz. vol. 215; p. 944.
- Alfano, Louis, assignor of one-half to F. Galletti, Southington, Conn. Device for printing diagrams for tailors' patterns. No. 1,130,653; Mar. 2; Gaz. vol. 212; p. 283.
- Alford, Charles L. (See Owens and Alford.)
- Alford, William D., Samson, Ala. Sanitary closet. No. 1,127,151; Feb. 2; Gaz. vol. 211; p. 172.
- Alfred, Clarence J., assignor to National Biscuit Company, New York, N. Y. Strip-holder. No. 1,137,732; May 4; Gaz. vol. 214; p. 5.
- Alfred, John W., Jeffersonville, Ind. Alarm-lock. No. 1,151,149; Aug. 24; Gaz. vol. 217; p. 1164.
- Alfreds, Torris H., Chicago, Ill. Operating mechanism for washing-machines. No. 1,165,377; Dec. 28; Gaz. vol. 221; p. 1047.
- Alfsen, Adolf A., Hönöfors, assignor to J. & A. Jensen & Dahl, Christiania, Norway. Apparatus for barking wood. No. 1,148,136; July 27; Gaz. vol. 216; p. 1176.
- Alger, Harley C., Chicago Heights, Ill. Liquid-meter. No. 1,126,933; Feb. 2; Gaz. vol. 211; p. 94.
- Alger, Harley C., Chicago Heights, Ill. Liquid-siphon. No. 1,127,387; Feb. 9; Gaz. vol. 211; p. 292.
- Alger, Harley C., Chicago Heights, Ill. Recorder. No. 1,130,954; Mar. 9; Gaz. vol. 212; p. 420.
- Alger, Harley C., Chicago Heights, Ill. Recorder. No. 1,131,892; Mar. 16; Gaz. vol. 212; p. 783.
- Alger, Harley C., Chicago Heights, Ill. Liquid-meter. No. 1,132,994; Mar. 23; Gaz. vol. 212; p. 1236.
- Algoma Fly Net Company, The. (See Anderegg, Edward W., assignor.)
- All Angle Square Company. (See Barker, John, assignor.)
- Allabor, Jean. (See Allabor, Wilhelm and J.)
- Allabor, Wilhelm and J., Rheineck, near St. Gallen, Switzerland. Means for tempering metal members. No. 1,163,303; Dec. 7; Gaz. vol. 221; p. 199.
- Allais, John R., assignor to Sears, Roebuck & Co., Chicago, Ill. Packer's cutting implement. No. 1,137,445; Apr. 27; Gaz. vol. 213; p. 1316.
- Allamong, Jonas. (See Burke, Stephen E., assignor.)
- Allan, Alvan A., and E. T. Elliott, Everett, Wash. Wrench. No. 1,126,335; Jan. 26; Gaz. vol. 210; p. 1222.
- Allan, Alvan A., and E. T. Elliott, Everett, Wash. Wrench. No. 1,126,336; Jan. 26; Gaz. vol. 210; p. 1223.
- Allan, Charles D., Chicago, Ill. Fire-extinguisher. No. 1,134,498; Apr. 6; Gaz. vol. 213; p. 151.
- Allan, Charles D., Chicago, Ill. Radiator-control valve. No. 1,142,389; June 8; Gaz. vol. 215; p. 495.
- Allan, Edward T., Cincinnati, Ohio. Pasteboard shipping-case. No. 1,160,813; Nov. 16; Gaz. vol. 220; p. 933.
- Allan, Harry, Toronto, Ontario, Canada. Rotary tooth-brush. No. 1,133,907; Mar. 30; Gaz. vol. 212; p. 1596.
- Allan, Hugh G. (See Hauerbach and Allan.)
- Allan, William N., San Antonio, Tex. Speed-indicator. No. 1,146,913; July 20; Gaz. vol. 216; p. 718.
- Allan, William N., San Antonio, Tex. Automobile-head-light. No. 1,146,914; July 20; Gaz. vol. 216; p. 718.
- Allan, William N., San Antonio, Tex. Driving mechanism for automobiles and the like. No. 1,160,032; Nov. 9; Gaz. vol. 220; p. 602.
- Allard, Andrew J., Richmond, Va. Electric train signaling and controlling system. No. 1,136,751; Apr. 20; Gaz. vol. 213; p. 1029.
- Allard, Andrew J., assignor of one-third to T. F. Green and one-third to D. R. Creedy, Jr., Richmond, Va. Electric train signaling and controlling system. No. 1,136,750; Apr. 20; Gaz. vol. 213; p. 1028.
- Allard, Joseph M., Baltimore, Md. Shade-bracket. No. 1,126,934; Feb. 2; Gaz. vol. 211; p. 95.
- Albee, Elmer E., Arlington, N. J., assignor to Safety Car Heating & Lighting Company. Gas-lamp. No. 1,123,648; Jan. 5; Gaz. vol. 210; p. 154.
- Albright-Nell Company, The. (See Kohlhepp, John W., assignor.)
- Albright, William B., Chicago, Ill. Loop-beater. No. 1,161,180; Nov. 23; Gaz. vol. 220; p. 1107.
- Albright, William B., Chicago, Ill. Carcass-beater. No. 1,164,053; Dec. 14; Gaz. vol. 221; p. 507.
- Allegheny Steel Company. (See Scott, Arthur P., assignor.)
- Alleman & Ebersole *et al.* (See Alleman, Grant E., assignor.)
- Alleman, Grant E., assignor of one-half to Alleman & Ebersole and one-half to Alleman & Wolfe, Shoemakersville, Pa. Dredging-machine. No. 1,148,816; Aug. 3; Gaz. vol. 217; p. 120.
- Alleman, Grant E., assignor of one-half to Alleman & Wolfe and one-half to Alleman & Ebersole, Shoemakersville, Pa. Coal and sand reclaiming device. No. 1,165,379; Dec. 28; Gaz. vol. 221; p. 1048.
- Alleman & Wolfe *et al.* (See Alleman, Grant E., assignor.)
- Alleman, Arnold, assignor to Firma Schweiz, Kommissions- und Aufbewahrungs-Haus für Das in- und Ausland Tomashpolsky & Weidenfeld, Berne, Switzerland. Tachometer. No. 1,135,486; Apr. 13; Gaz. vol. 213; p. 540.
- Allen, Albert E., Spirit Lake, Iowa. Fire-extinguisher. No. 1,137,827; May 4; Gaz. vol. 214; p. 36.
- Allen, Albert M., St. Louis, Mo. Pneumatic tire. No. 1,134,660; Apr. 6; Gaz. vol. 213; p. 211.
- Allen, Alonzo W., assignor of one-half to E. M. Davis, Streator, Ill. Arcograph. No. 1,146,607; July 13; Gaz. vol. 216; p. 593.
- Allen, Ambrose, Kansas City, Mo. Incubator. No. 1,153,184; Sept. 14; Gaz. vol. 218; p. 327.
- Allen, Arthur M., New Brighton, N. Y. Double-gearped velocipede. No. 1,149,422; Aug. 10; Gaz. vol. 217; p. 437.
- Allen Auto Specialty Company, The. (See Kellar, Victor T., assignor.)
- Allen, Bona, Jr., Buford, Ga. Tanning-drum. No. 1,155,866; Oct. 5; Gaz. vol. 219; p. 189.
- Allen-Bradley Company. (See Bradley, Lynde and H. L., assignors.)
- Allen, Charles, El Paso, Tex. Slime separator and classifier. No. 1,147,356; July 20; Gaz. vol. 216; p. 872.
- Allen, Charles A., assignor to The Whitin Machine Works, Whitinsville, Mass. Skewer-support for creels. No. 1,152,388; Sept. 7; Gaz. vol. 218; p. 3.
- Allen, Charles A., assignor to The Whitin Machine Works, Whitinsville, Mass. Card-fleece-width controller. No. 1,152,389; Sept. 7; Gaz. vol. 218; p. 3.
- Allen, Charles A., Jr. (See Bain, Foré, assignor.)
- Allen, Charles F., Los Angeles, Cal. Door construction for freight-cars. No. 1,141,513; June 1; Gaz. vol. 215; p. 152.
- Allen, Charles H., Attleboro, Mass. Watch-holder. No. 1,164,621; Dec. 21; Gaz. vol. 221; p. 745.
- Allen, Charles L., Lake City, S. C. Plow. No. 1,129,055; Feb. 23; Gaz. vol. 211; p. 961.
- Allen, Charles L., assignor to Utah Patent and Implement Company, Salt Lake City, Utah. Lay-off and pulverizing machine. No. 1,160,120; Nov. 16; Gaz. vol. 220; p. 687.
- Allen, Charles M., Worcester, Mass. Friction-clutch. No. 1,137,944; May 4; Gaz. vol. 214; p. 77.
- Allen, Charles M., Worcester, Mass. Hydrostatic recorder. No. 1,137,945; May 4; Gaz. vol. 214; p. 77.
- Allen, Charles M., San Francisco, Cal. Compound internal-combustion engine. No. 1,153,881; Sept. 21; Gaz. vol. 218; p. 610.
- Allen, Charles T., Carthage, Mo. Vehicle-wheel. No. 1,129,157; Feb. 23; Gaz. vol. 211; p. 997.
- Allen, Claude N., Michigan City, Ind. Carpet-cleaner. No. 1,164,904; Dec. 21; Gaz. vol. 221; p. 844.
- Allen, David, Trenton, N. J. Steering device. No. 1,144,278; June 22; Gaz. vol. 215; p. 1218.
- Allen, David E., and D. M. Forbess, Ardmore, Okla. Work-holder. No. 1,147,357; July 20; Gaz. vol. 216; p. 872.
- Allen, David M., Melrose Park, Ill. Combined shade-roller and curtain-pole support. No. 1,124,829; Jan. 12; Gaz. vol. 210; p. 616.
- Allen, Edward A., Rumford Falls, and H. I. Allen, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,148,274; July 27; Gaz. vol. 216; p. 1224.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole cutting and stitching machine. No. 1,135,933; Apr. 13; Gaz. vol. 213; p. 696.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole cutting and sewing machine. No. 1,136,388; Apr. 20; Gaz. vol. 213; p. 899.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stitched buttonhole. No. 1,136,389; Apr. 20; Gaz. vol. 213; p. 900.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread-cutting mechanism. No. 1,153,412; Sept. 14; Gaz. vol. 218; p. 410.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,155,120; Sept. 28; Gaz. vol. 218; p. 1064.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stitch-forming mechanism. No. 1,159,345; Nov. 9; Gaz. vol. 220; p. 357.

Alphabetical list of patentees—Continued.

- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine needle mechanism. No. 1,161,277; Nov. 23; Gaz. vol. 220; p. 1143.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stitch-forming mechanism for sewing-machines. No. 1,162,207; Nov. 30; Gaz. vol. 220; p. 1514.
- Allen, Edward E., assignor to Allen Machinery Company, Erie, Pa. Skiving-machine. No. 1,131,589; Mar. 9; Gaz. vol. 212; p. 639.
- Allen, Edward E., assignor to Allen Machine Company, Erie, Pa. Door-securing mechanism. No. 1,160,814; Nov. 16; Gaz. vol. 220; p. 933.
- Allen, Edward H., *et al.* (See Druitt, Percy W., assignor.)
- Allen, Edward H., *et al.* (See Druitt and Gilpin, assignors.)
- Allen, Edward R., Corning, N. Y. Potato-digger. No. 1,133,908; Mar. 30; Gaz. vol. 212; p. 1597.
- Allen, Edward V., Pontiac, Mich. Match-box holder. No. 1,143,345; June 15; Gaz. vol. 215; p. 869.
- Allen, Ernest C., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing mechanism for cameras. No. 1,146,837; July 20; Gaz. vol. 216; p. 691.
- Allen, Ernest C., and F. J. Mueller, West Allis, Wis. Rotary engine. No. 1,135,750; Apr. 13; Gaz. vol. 213; p. 633.
- Allen, Ernest J. (See Lane and Allen.)
- Allen, Ernest J., assignor to Rathbone, Sard & Company, Albany, N. Y. Surface combustion burner. No. 1,139,321; May 11; Gaz. vol. 214; p. 598.
- Allen, Ernest J., assignor to Rathbone, Sard & Company, Albany, N. Y. Gas heater and stove. No. 1,141,096; June 1; Gaz. vol. 215; p. 3.
- Allen, Ernest J., assignor to Rathbone, Sard & Company, Albany, N. Y. Gas-stove. No. 1,160,486; Nov. 16; Gaz. vol. 220; p. 815.
- Allen, Eugene E., Los Angeles, Cal. Treating roadways. No. 1,142,788; June 15; Gaz. vol. 215; p. 673.
- Allen, Eugene E., Santa Ana, Cal. Weed-burner. No. 1,166,305; Dec. 28; Gaz. vol. 221; p. 1378.
- Allen, Eugene S., New York, N. Y. Lighting device for gas-burners. No. 1,124,383; Jan. 12; Gaz. vol. 210; p. 455.
- Allen, Fannie A., Louisville, Ky. Copy-holder. No. 1,130,559; Mar. 2; Gaz. vol. 212; p. 252.
- Allen, Frances B. (See Thornton and Settle, assignors.)
- Allen, Frank C., Monon, Ind. Clutch-release for Ford automobiles. No. 1,130,560; Mar. 2; Gaz. vol. 212; p. 252.
- Allen, Frank E., Port Huron, Mich. Music-stand. No. 1,147,589; July 20; Gaz. vol. 216; p. 955.
- Allen, Frank G., Boulder, Colo. Set-square. No. 1,146,608; July 13; Gaz. vol. 216; p. 593.
- Allen, Frank H., Donaldsonville, La. Inkstand. No. 1,161,579; Nov. 23; Gaz. vol. 220; p. 1249.
- Allen, Frank R., Passaic, N. J. Folding vestibule. No. 1,133,693; Mar. 30; Gaz. vol. 212; p. 1523.
- Allen, Fred R., assignor to Allen Wrench & Tool Company, Providence, R. I. Wrench. No. 1,124,191; Jan. 5; Gaz. vol. 210; p. 339.
- Allen, Fred R., Providence, R. I., assignor, by mesne assignments, to National Envelope Sealing & Stamping Manufacturing Company. Stamp-affixing machine. No. 1,124,577; Jan. 12; Gaz. vol. 210; p. 525.
- Allen, Fred R., Providence, R. I., assignor, by mesne assignments, to National Envelope Sealing and Stamping Manufacturing Company. Stamp-affixing machine. No. 1,127,843; Feb. 9; Gaz. vol. 211; p. 455.
- Allen, George E. (See Spade, Herbert O., assignor.)
- Allen, George E., Philadelphia, Pa. Package-winding machine. No. 1,135,090; Apr. 13; Gaz. vol. 213; p. 404.
- Allen, George W., *et al.* (See Farthing, Charles M. and J., assignors.)
- Allen, George W., assignor to B. F. Sturtevant Company, Boston, Mass. Pneumatic cleaner. No. 1,124,684; Jan. 12; Gaz. vol. 210; p. 565.
- Allen, Gilbert S., Everett, Mass. Caster. No. 1,160,121; Nov. 16; Gaz. vol. 220; p. 688.
- Allen, Harry, Savannah, Ga. Wrench. No. 1,132,146; Mar. 16; Gaz. vol. 212; p. 876.
- Allen, Harry E., and F. T. Mitchell, Washington, D. C. Vacuum-drier. No. 1,165,306; Dec. 21; Gaz. vol. 221; p. 984.
- Allen, Harry L., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Sand-reclaimer. No. 1,124,830; Jan. 12; Gaz. vol. 210; p. 616.
- Allen, Harry L., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Side frame. No. 1,165,740; Dec. 28; Gaz. vol. 221; p. 1176.
- Allen, Harry T., East Orange, N. J. Ice-cream cone. No. 1,153,744; Sept. 14; Gaz. vol. 218; p. 527.
- Allen, Herbert I. (See Allen, Edward A. and H. I.)
- Allen, Herbert W., Coalinga, Cal. Carbureter. No. 1,140,232; May 13; Gaz. vol. 214; p. 956.
- Allen-Higgins Wall Paper Company. (See Dupuis, Moses, assignor.)
- Allen, Houston T., Nashville, Tenn. Hay-harvester. No. 1,127,152; Feb. 2; Gaz. vol. 211; p. 172.
- Allen, Irving R., Chicago, Ill. Scrap-book. No. 1,161,580; Nov. 23; Gaz. vol. 220; p. 1250.
- Allen, James. (See Mason and Allen.)
- Allen, James R. (See Hotzel and Allen.)
- Allen, James B. (See Shufeldt, John B. Jr., assignor.)
- Allen, James G., Detroit, Mich. Wire-cloth-measuring instrument. No. 1,123,649; Jan. 5; Gaz. vol. 210; p. 155.
- Allen, James M., St. Louis, Mo., assignor to Allen Novelty Company. Scissors-sharpener. No. 1,130,695; Mar. 9; Gaz. vol. 212; p. 333.
- Allen, James M., assignor of one-tenth to W. A. Gruenewald, St. Louis, Mo. Hydrocarbon-engine. No. 1,137,446; Apr. 27; Gaz. vol. 213; p. 1316.
- Allen, John, San Francisco, Cal. Reversible turbine-engine. No. 1,127,386; Feb. 9; Gaz. vol. 211; p. 292.
- Allen, John C. (See Wheeler, Ira R., assignor.)
- Allen, John L., Manville, R. I. Lubricator. No. 1,144,988; July 6; Gaz. vol. 216; p. 3.
- Allen, John V., South Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tension device. No. 1,149,244; Aug. 10; Gaz. vol. 217; p. 371.
- Allen, Joseph H., El Paso, Tex. Necktie. No. 1,136,917; Apr. 27; Gaz. vol. 213; p. 1123.
- Allen, Joseph J., South Orange, N. J. Heel-pocket. No. 1,129,439; Feb. 23; Gaz. vol. 211; p. 1096.
- Allen, Judge S., New York, N. Y. Train-signal apparatus. No. 1,132,418; Mar. 16; Gaz. vol. 212; p. 974.
- Allen, Lincoln E., Kokomo, Ind. Headlight. No. 1,158,156; Oct. 26; Gaz. vol. 219; p. 1108.
- Allen, Louis R., Sparks, Nebr. Wagon-brake. No. 1,153,745; Sept. 14; Gaz. vol. 218; p. 527.
- Allen Machine Company. (See Allen, Edward E., assignor.)
- Allen Machinery Company. (See Allen, Edward E., assignor.)
- Allen Manufacturing Company, The. (See McIntyre and Weir, assignors.)
- Allen, Melvin P., Kansas City, Mo. Duster. No. 1,138,922; May 11; Gaz. vol. 214; p. 459.
- Allen, Myron H., New Brunswick, N. J. Egg-carrier. No. 1,153,185; Sept. 14; Gaz. vol. 218; p. 327.
- Allen, Neal, *et al.* (See Lamar, Alexis L., assignor.)
- Allen Novelty Company. (See Allen, James M., assignor.)
- Allen, Oliver P. (See Griffin and Allen.)
- Allen, Orren. (See Isbell, John F., assignor.)
- Allen, Oscar H., Brockton, Mass. Connector for bead-chains. No. 1,157,917; Oct. 26; Gaz. vol. 219; p. 1024.
- Allen, Patrick V. (See James, Anderson, and Allen.)
- Allen, Robert, Caversham, England. Packing for rods and the like. No. 1,165,486; Dec. 28; Gaz. vol. 221; p. 1086.
- Allen, Robert C. (See London, Plaine, and Allen.)
- Allen, Robert N., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Shuttle-cutting machine. No. 1,126,337; Jan. 26; Gaz. vol. 210; p. 1223.
- Allen, Robert N., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Self-threading shuttle. No. 1,126,338; Jan. 26; Gaz. vol. 210; p. 1224.
- Allen, Robert N., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Self-threading shuttle. No. 1,145,649; July 6; Gaz. vol. 216; p. 236.
- Allen, Robert N., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Bobbin-clamp for shuttles. No. 1,145,650; July 6; Gaz. vol. 216; p. 236.
- Allen, Robert N., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Loom-shuttle. No. 1,145,651; July 6; Gaz. vol. 216; p. 237.
- Allen S. Davison Company. (See Meyer, Albert P., assignor.)
- Allen, Samuel J., Kinmundy, Ill. Snow-plow. No. 1,158,766; Nov. 2; Gaz. vol. 220; p. 125.
- Allen Tractor Company. (See Allen, William P., assignor.)
- Allen, W. P., *et al.* (See Lamar, Alexis L., assignor.)
- Allen, Walter P. (See Post, Howell B., assignor.)
- Allen, Walter P., Ardmore, and G. R. Scattergood, Philadelphia, assignors to The Union Switch and Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,144,017; June 22; Gaz. vol. 215; p. 1125.
- Allen, Walter S. (See Bair, George R., assignor.)
- Allen, Wesley P., Russet, Okla. Portable hoister. No. 1,148,068; July 27; Gaz. vol. 216; p. 1150.
- Allen, William H., Gallatin, Tex. Plant-supporting device. No. 1,129,838; Mar. 2; Gaz. vol. 212; p. 3.
- Allen, William H., Momence, assignor of one-half to O. E. Cook, Grant Park, Ill. Automatic brick-handling machine. No. 1,125,630; Jan. 19; Gaz. vol. 210; p. 935.
- Allen, William L. (See Worswick, James E., assignor.)
- Allen, William P., Little Rock, Ark., assignor to Allen Tractor Company. Tractor. No. 1,139,009; May 11; Gaz. vol. 214; p. 492.
- Allen, William R., assignor to The American Multigraph Company, Cleveland, Ohio. Folding-machine. No. 1,152,259; Aug. 31; Gaz. vol. 217; p. 1500.
- Allen, William R., and A. McNally, Blaine, Wash. Vehicle-wheel. No. 1,143,480; June 15; Gaz. vol. 215; p. 916.
- Allen, Willis E., San Diego, Cal. Combination dental instrument. No. 1,143,927; June 22; Gaz. vol. 215; p. 1092.
- Allen Wrench & Tool Company. (See Allen, Fred R., assignor.)

Alphabetical list of patentees—Continued.

- Allender, Charles S., and G. G. McNee, Clay Center, Kans. Valve. No. 1,131,024; Mar. 9; Gaz. vol. 212; p. 446.
- Allensworth, Harry R., Columbus, Ohio. Relay. No. 1,130,654; Mar. 2; Gaz. vol. 212; p. 284.
- Allering, Cletus N., assignor to the Ohio Brass Company, Mansfield, Ohio. Valve. No. 1,138,721; May 11; Gaz. vol. 214; p. 388.
- Allering, Cletus N., assignor to The Ohio Brass Company, Mansfield, Ohio. Sand-trap. No. 1,150,480; Aug. 17; Gaz. vol. 217; p. 876.
- Allers, Henry G., Buffalo, N. Y. Electroplating apparatus. No. 1,144,680; June 29; Gaz. vol. 215; p. 1382.
- Allerton, Robert W., South Orange, N. J., assignor to Henry R. Worthington. Stroke-adjuster for direct-acting engines. No. 1,142,789; June 15; Gaz. vol. 215; p. 673.
- Alleva, Sante T. (See Bravi, Giuseppe, assignor.)
- Alley, Frederick L., Sydney, New South Wales, Australia, assignor to United Shoe Machinery Company, Paterson, N. J. Inseam-shoe-sewing machine. No. 1,157,200; Oct. 19; Gaz. vol. 219; p. 710.
- Alley, Jesse L., Indianapolis, Ind. Scraper and hoist apparatus. No. 1,158,097; Oct. 26; Gaz. vol. 219; p. 1088.
- Alley, John J., Bristol, Va. Dispensing apparatus. No. 1,132,545; Mar. 23; Gaz. vol. 212; p. 1068.
- Alley, Merritt W., Yonkers, N. Y. Carbureter. No. 1,163,581; Dec. 7; Gaz. vol. 221; p. 296.
- Alley, Whitfield H., Chicago, Ill. Pendant-scaffold support. No. 1,141,749; June 1; Gaz. vol. 215; p. 233.
- Allgemeine Publikations-Gesellschaft m. b. H. (See Ptok, Franz, assignor.)
- Allgemeine Treuband-Aktiengesellschaft. (See Mauersberger, Walther, assignor.)
- Alliger, Andrew, Grand Rapids, Mich., assignor to R. O. Rudolph, Bellevue, Ohio. Combined spring hinge and check. No. 1,155,867; Oct. 5; Gaz. vol. 219; p. 189.
- Allgood, Francis D., Leesville, La. Brace. No. 1,162,542; Nov. 30; Gaz. vol. 220; p. 1629.
- Allgood, Oscar B., Blocton, assignor of one-half to J. W. Groves, Birmingham, Ala. Transformer-protector. No. 1,138,170; May 4; Gaz. vol. 214; p. 158.
- Alliance Machine Company. (See Kendall, Edward H., assignor.)
- Alliance Machine Company, The. (See Oyster, Earl F., assignor.)
- Allin, Henry P., Cambridge, England. Indicator for taxicabs. No. 1,142,390; June 8; Gaz. vol. 215; p. 496.
- Allinger, Charles E. *et al.* (See Garros, Benjamin, assignor.)
- Allinger, Frank A., Los Angeles, Cal. Hydrocarbon-burner. No. 1,159,151; Nov. 2; Gaz. vol. 220; p. 256.
- Allinger, Frank A., assignor of one-half to C. Volz, Los Angeles, Cal. Locomotive fire-box. No. 1,165,932; Dec. 28; Gaz. vol. 221; p. 1241.
- Allino Switch Box Manufacturing Company. (See Maison and Robinson, assignors.)
- Alliot, Hector, Los Angeles, Cal. Means for carbonating liquids. No. 1,148,817; Aug. 3; Gaz. vol. 217; p. 120.
- Allis-Chalmers Manufacturing Company. (See Behrend, Bernard A., assignor.)
- Allis-Chalmers Manufacturing Company. (See Bogen and Nichols, assignors.)
- Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Brown, John W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
- Allis-Chalmers Manufacturing Company. (See De Wein, George F., assignor.)
- Allis-Chalmers Manufacturing Company. (See Englessen, John E., assignor.)
- Allis-Chalmers Manufacturing Company. (See George, Edgar C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Grow, John H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Haskins, Bradley, assignor.)
- Allis-Chalmers Manufacturing Company. (See Johnson, John L., assignor.)
- Allis-Chalmers Manufacturing Company. (See Knight, Earle R., assignor.)
- Allis-Chalmers Manufacturing Company. (See Kollberg, Gustaf L., assignor.)
- Allis-Chalmers Manufacturing Company. (See Latta, Nisbet, assignor.)
- Allis-Chalmers Manufacturing Company. (See Lieber, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Lincoln, Charles S., assignor.)
- Allis-Chalmers Manufacturing Company. (See Loguin, Alexander J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Luck, Gustave J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Marburg, Louis C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Mattman, Emil, assignor.)
- Allis-Chalmers Manufacturing Company. (See Menningen, Joseph F., assignor.)
- Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Nichols, Louis C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Nicht, Alexander J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
- Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)
- Allis-Chalmers Manufacturing Company. (See Pomeroy, William D., assignor.)
- Allis-Chalmers Manufacturing Company. (See Rotter, Max, assignor.)
- Allis-Chalmers Manufacturing Company. (See Schley, George B., assignor.)
- Allis-Chalmers Manufacturing Company. (See Sprado, Carl G., assignor.)
- Allis-Chalmers Manufacturing Company. (See Steen, Halfdan A., assignor.)
- Allis-Chalmers Manufacturing Company. (See Stull, Emmett W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Tobiesen, Emanuel, assignor.)
- Allis-Chalmers Manufacturing Company. (See Van Valkenburg, Hermon L., assignor.)
- Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
- Allis-Chalmers Manufacturing Company. (See Wright, Edwin C., assignor.)
- Allis, Dexter W., Revere, assignor, by mesne assignments, to Boston Talking Machine Company, Boston, Mass. Acoustic apparatus for detecting sound-vibrations in non-gaseous media. No. 1,149,610; Aug. 10; Gaz. vol. 217; p. 505.
- Allis, Louis, Milwaukee, Wis. Animal toy. No. 1,149,170; Aug. 10; Gaz. vol. 217; p. 345.
- Allis, Thomas V., Pittsburgh, Pa. Pair-heating-furnace hearth. (Reissue.) No. 14,032; Dec. 14; Gaz. vol. 221; p. 704.
- Allison, Charles H., Glendale, Cal. Explosive-cap protector. No. 1,163,965; Dec. 14; Gaz. vol. 221; p. 476.
- Allison, Daniel K., assignor to The J. H. Day Company, Cincinnati, Ohio. Dough-molding machine. No. 1,163,626; Dec. 7; Gaz. vol. 221; p. 312.
- Allison, Daniel K., Cincinnati, Ohio, and B. D. Pinkney, Newport, Ky., assignors to The J. H. Day Company, Cincinnati, Ohio. Mechanical movement for cracker-cutting machines. No. 1,166,378; Dec. 28; Gaz. vol. 221; p. 1048.
- Allison, Emily T., New York, N. Y. Bottle-cap remover. No. 1,150,160; Aug. 17; Gaz. vol. 217; p. 764.
- Allison, Estelle, San Francisco, Cal. Artificial flower. No. 1,148,208; July 27; Gaz. vol. 216; p. 1200.
- Allison, Estelle, San Francisco, Cal. Toy. No. 1,152,067; Aug. 31; Gaz. vol. 217; p. 1525.
- Allison, James A., assignor to The Prest-O-Lite Company, Indianapolis, Ind. Starting apparatus for explosive-engines. No. 1,151,151; Aug. 24; Gaz. vol. 217; p. 1165.
- Allison, James A., and O. H. Skinner, assignors to The Prest-O-Lite Company, Indianapolis, Ind. Starting apparatus for internal-combustion engines. No. 1,151,150; Aug. 24; Gaz. vol. 217; p. 1164.
- Allison, John. (See Pulliam and Allison.)
- Allison, William E., *et al.* (See Smith, Frank W., assignor.)
- Allmand, John T. (See McCarthy and Allmand.)
- Allmand, John T., assignor to Fisher Closed Body Co., Detroit, Mich. Metal window-sash. No. 1,147,836; July 27; Gaz. vol. 216; p. 1068.
- Allmand, John T., assignor to Fisher Closed Body Co., Detroit, Mich. Carriage-window. No. 1,147,837; July 27; Gaz. vol. 216; p. 1068.
- Allmayer, McGerry, Chicago, Ill. Electric heating device. No. 1,134,661; Apr. 6; Gaz. vol. 213; p. 212.
- Allport, Katherine E., Chicago, Ill. Fastener for articles of wearing-apparel. No. 1,153,366; Sept. 14; Gaz. vol. 218; p. 893.
- Allred, Emanuel A., Carey, Idaho. Clevis. No. 1,148,275; July 27; Gaz. vol. 216; p. 1225.
- Allsop, Thomas. (See Sibson and Allsop.)
- Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Circulating dyeing-machine. No. 1,142,476; June 8; Gaz. vol. 215; p. 526.
- Allspaw, John M., Middletown, Ohio. Aseptic shaving-cup. No. 1,143,879; June 22; Gaz. vol. 215; p. 1076.
- Allsteadt, John E., Hastings, Nebr. Roof structure for storage bins. No. 1,137,689; Apr. 27; Gaz. vol. 213; p. 1396.
- Allvor-Apparate-Gesellschaft mit beschränkter Haftung. (See Münch, Gottfried, assignor.)
- Allyn, Robert S., New York, N. Y., assignor, by mesne assignments, to The Clark Caster Company, Plainville, Conn. Metal corner-bead. No. 1,151,554; Aug. 31; Gaz. vol. 217; p. 1347.
- Allyn, Rufus B., Colorado Springs, Colo. Drafting instrument. No. 1,156,512; Oct. 12; Gaz. vol. 219; p. 439.
- Allyne Brass Foundry Company, The. (See Leahy, David A., assignor.)

Alphabetical list of patentees—Continued.

- Alm, Thure W., Brooklyn, N. Y. Cutting surfaces on carburetor and emery wheels. No. 1,135,978; Apr. 20; Gaz. vol. 213; p. 755.
- Alma Manufacturing Company of Baltimore City. (See Hartmann, Emil, assignor.)
- Alma Manufacturing Company of Baltimore City. (See Kerngood and Blum, assignors.)
- Almetal Manufacturing Company, The. (See Nunn, Nevens N., assignor.)
- Alonso, Elias. (See Ferrer and Alonso.)
- Alpaugh, Clifford J., assignor to Trenton Electric and Conduit Company, Trenton, N. J. Swivel attachment-plug. No. 1,164,249; Dec. 14; Gaz. vol. 221; p. 573.
- Alpha Alcohol Utensil Company. (See Foster and Hill, assignors.)
- Alpha Brush Company. (See Bradshaw, James W., assignor.)
- Alphagraph Manufacturing Company. (See Bagge, Gustaf F., assignor.)
- Alquist, Karl, Rugby, England. Spur-gearing. No. 1,141,097; June 1; Gaz. vol. 215; p. 3.
- Alquist, Karl, Schenectady, N. Y. Flexible gear. No. 1,141,098; June 1; Gaz. vol. 215; p. 4.
- Alquist, Karl, Schenectady, N. Y. Means for grinding or polishing gears. No. 1,154,830; Sept. 28; Gaz. vol. 218; p. 963.
- Alquist, Karl, Schenectady, N. Y. Marine turbine. No. 1,155,029; Sept. 28; Gaz. vol. 218; p. 1030.
- Alquist, Karl, Schenectady, N. Y. Marine turbine. No. 1,155,030; Sept. 28; Gaz. vol. 218; p. 1030.
- Alquist, Karl, Schenectady, N. Y. Elastic gearing. No. 1,157,918; Oct. 26; Gaz. vol. 219; p. 1024.
- Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,165,827; Dec. 28; Gaz. vol. 221; p. 1205.
- Alquist, Karl, Schenectady, N. Y. Elastic helical gearing. No. 1,165,828; Dec. 28; Gaz. vol. 221; p. 1205.
- Alquist, Karl, Schenectady, N. Y. Double reduction-gearing. No. 1,165,829; Dec. 28; Gaz. vol. 221; p. 1205.
- Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,165,830; Dec. 28; Gaz. vol. 221; p. 1206.
- Alquist, Karl, Schenectady, N. Y. Manufacturing elastic helical gears. No. 1,165,933; Dec. 28; Gaz. vol. 221; p. 1241.
- Alquist, Karl, Schenectady, N. Y., assignor to General Electric Company. Marine turbine. No. 1,153,475; Sept. 14; Gaz. vol. 218; p. 431.
- Alquist, Sven P. (See Hartough and Alquist.)
- Alsop, Bertha S., New York, N. Y. Bottle. No. 1,125,034; Jan. 19; Gaz. vol. 210; p. 723.
- Alsop, Bertha S., New York, N. Y. Hose-supporter. No. 1,154,556; Sept. 21; Gaz. vol. 218; p. 841.
- Alsop, Bertha S., New York, N. Y. Bottle. No. 1,155,333; Oct. 5; Gaz. vol. 219; p. 3.
- Alsop, Bertha S., New York, N. Y. Pen and pencil retainer. No. 1,164,697; Dec. 21; Gaz. vol. 221; p. 772.
- Alsted, Edward P., Truesdell, Wis. Attrition-mill plate. No. 1,144,089; June 22; Gaz. vol. 215; p. 1150.
- Alsteel Manufacturing Company. (See Macomber, Lynn W., assignor.)
- Alsten, Alfred O. (See Johnson and Alsten.)
- Alsten, John A., *et al.* (See Johnson and Alsten, assignors.)
- Alston, Walter M., Ben Avon, and I. E. Hindman, Oakmont, assignors to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,147,476; July 20; Gaz. vol. 216; p. 916.
- Alston, Walter M., Ben Avon, and I. E. Hindman, Oakmont, assignors to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,151,232; Aug. 24; Gaz. vol. 217; p. 1192.
- Alston, Walter M., Ben Avon, and I. E. Hindman, Oakmont, assignors to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,165,380; Dec. 28; Gaz. vol. 221; p. 1048.
- Alsup, Thomas B., Erick, Okla. Stalk-cutter. No. 1,164,774; Dec. 21; Gaz. vol. 221; p. 799.
- Alt, Charles M., Baltimore, Ohio. Corn-harvester. No. 1,134,575; Apr. 6; Gaz. vol. 213; p. 180.
- Altendorf, Julian A. (See Metzger, Altendorf, and Verill.)
- Altenfeld, Paul, New York, N. Y. Making animal food. No. 1,124,831; Jan. 12; Gaz. vol. 210; p. 617.
- Alter, Jacob, *et al.* (See Linn, Robert, assignor.)
- Alter, Lute S., Los Angeles, Cal. Direction-pointer. No. 1,145,652; July 6; Gaz. vol. 216; p. 237.
- Altheide, August F., Mount Carmel, Ill. Roller-mill. No. 1,130,365; Mar. 2; Gaz. vol. 212; p. 182.
- Altheide, August J., Lewiston, Idaho. Chair. No. 1,129,620; Feb. 23; Gaz. vol. 211; p. 1161.
- Altheide, August J., Lewiston, Idaho. Spike. No. 1,144,279; June 22; Gaz. vol. 215; p. 1218.
- Althoff, Alfons, St. Louis, Mo. Fishing apparatus. No. 1,163,193; Dec. 7; Gaz. vol. 221; p. 161.
- Althoff, August W., Oklahoma, Okla. Machine for elevating and mixing concrete. No. 1,155,190; Sept. 28; Gaz. vol. 218; p. 1088.
- Althouse, Albert C., Dublin, Pa. Broom-bridle holder. No. 1,146,681; July 13; Gaz. vol. 216; p. 618.
- Althouse, Charles S., Reading, Pa. Treating thread. No. 1,153,004; Sept. 7; Gaz. vol. 218; p. 229.
- Altick, Harry M., Dayton, Ohio. Game-board. No. 1,147,776; July 27; Gaz. vol. 216; p. 1046.
- Altman, Elmer F., assignor to O. M. Oulman, Minneapolis, Minn. Automobile-chassis. No. 1,124,578; Jan. 12; Gaz. vol. 210; p. 526.
- Altman, Michael, Chicago, Ill. Implement for decorating fruit. No. 1,146,610; July 13; Gaz. vol. 216; p. 594.
- Altman, Mofse, Bagnolet, France, assignor to H. E. Snodgrass, Newark, N. J. Apparatus for welding the meeting edges of metallic articles. (Reissue.) No. 13,941; June 29; Gaz. vol. 215; p. 1489.
- Altmann, Joseph. (See Johannesmann, Karl, assignor.)
- Alton, George E., Hawkeye, Iowa. Cushion-wheel. No. 1,158,422; Nov. 2; Gaz. vol. 220; p. 3.
- Altorfer, Alpheus W., Roanoke, assignor to Power Washing Machine Company, Peoria, Ill. Driving mechanism. No. 1,152,377; Aug. 31; Gaz. vol. 217; p. 1633.
- Altorfer, Alpheus W., Roanoke, assignor to Power Washing Machine Co., Peoria, Ill. Clothes-wringer. No. 1,158,099; Oct. 26; Gaz. vol. 219; p. 1088.
- Altorfer, Alpheus W., assignor to Altorfer Bros. Co., Roanoke, Ill. Driving mechanism. No. 1,158,098; Oct. 26; Gaz. vol. 219; p. 1088.
- Altorfer Bros. Co. (See Altorfer, Alpheus W., assignor.)
- Aluminum Seal Company. (See Buhles, William C., assignor.)
- Alunan, Salvador, Jaro, Philippine Islands. Hand-plow. No. 1,125,435; Jan. 19; Gaz. vol. 210; p. 868.
- Alunan, Salvador, Jaro, Philippine Islands. Hand-weeder. No. 1,142,869; June 15; Gaz. vol. 215; p. 701.
- Alvey, Benjamin H., Elizabethtown, Ky. Rotary engine. No. 1,144,018; June 22; Gaz. vol. 215; p. 1125.
- Alvey, Benjamin H., Elizabethtown, Ky. Rotary engine. No. 1,151,430; Aug. 24; Gaz. vol. 217; p. 1256.
- Alvey, Benjamin H., Elizabethtown, Ky. Ship loader or unloader. No. 1,156,653; Oct. 12; Gaz. vol. 219; p. 489.
- Alvey, Benjamin H., Louisville, Ky., assignor, by mesne assignments, to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. Conveyor. No. 1,144,337; June 22; Gaz. vol. 215; p. 1238.
- Alvey-Ferguson Company, The. (See Alvey, Benjamin H., assignor.)
- Alvey-Ferguson Company, The. (See Bernheim, Morris U., assignor.)
- Alvey, John A., assignor, by mesne assignments, to Alvey Manufacturing Company, St. Louis, Mo. Bearing for conveyor-rollers. No. 1,141,514; June 1; Gaz. vol. 215; p. 153.
- Alvey, John A., assignor to Alvey Manufacturing Company, St. Louis, Mo. Bearing for conveyor-rollers. No. 1,141,515; June 1; Gaz. vol. 215; p. 153.
- Alvey Manufacturing Company. (See Alvey, John A., assignor.)
- Alvord, Donald. (See Bayly, Taver, assignor.)
- Alvea, Emery T., Minneapolis, Minn. Operating mechanism for lifting-jacks. No. 1,135,649; Apr. 13; Gaz. vol. 213; p. 598.
- Alvea, Emery T., Minneapolis, Minn. Lifting-jack. No. 1,148,648; Aug. 3; Gaz. vol. 217; p. 59.
- Amacher, Henry, Cullom, Ill. Clothes-line. No. 1,148,818; Aug. 3; Gaz. vol. 217; p. 120.
- Amalgamated Machinery Corporation. (See Yeomans, Lucien I., assignor.)
- Amalgamated Radio-Telegraph Company, The. (See Raymond-Barker, Edward, assignor.)
- Amaranth Machinery and Supply Works. (See Wittemann, Jacob F. and R. W., assignors.)
- Amberg, Walter E., Chicago, Ill. Lateral-motion bearing for railway-trucks. No. 1,144,520; June 29; Gaz. vol. 215; p. 1328.
- Amberger, Walter H., Philadelphia, Pa. Buoy for submarines. No. 1,160,122; Nov. 16; Gaz. vol. 220; p. 688.
- Ambler, George B., assignor to F. A. Whitney Carriage Co., Leominster, Mass. Vehicle. No. 1,148,276; July 27; Gaz. vol. 216; p. 1225.
- Amborn, George, Chapinville, Conn., assignor to J. H. Williams & Co., Brooklyn, N. Y. Chain pipe-wrench. No. 1,146,119; July 13; Gaz. vol. 216; p. 420.
- Amborn, George, Chapinville, Conn., assignor to J. H. Williams & Co., Brooklyn, N. Y. Chain pipe-wrench. No. 1,146,120; July 13; Gaz. vol. 216; p. 420.
- Amborn, George, Chapinville, Conn., assignor to J. H. Williams & Co., Brooklyn, N. Y. Holder for threading-tools or the like. No. 1,146,546; July 13; Gaz. vol. 216; p. 572.
- Amborn, George, Chapinville, Conn., assignor to J. H. Williams & Co., Brooklyn, N. Y. Tool-holder. No. 1,158,100; Oct. 26; Gaz. vol. 219; p. 1089.
- Amborn, George, Chapinville, Conn., assignor to J. H. Williams & Co., Brooklyn, N. Y. Chain pipe-vise. No. 1,158,414; Oct. 26; Gaz. vol. 219; p. 1200.
- Ambrette, Conrad, Brooklyn, assignor to Cevasco, Cavanaugh & Ambrette, New York, N. Y. Transmission for presses. No. 1,163,304; Dec. 7; Gaz. vol. 221; p. 199.
- Ambrose, George. (See Clark, Ambrose, and Clark.)
- Ambrose, Harry T. (See Donning, George W., assignor.)
- Ambrose, Joseph S., Prescott, Ariz. Device used in molding walls. No. 1,160,033; Nov. 9; Gaz. vol. 220; p. 603.
- Ambrose, Robert L., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Valve-motion for pneumatic tools. No. 1,131,812; Mar. 16; Gaz. vol. 212; p. 755.

Alphabetical list of patentees—Continued.

- Ambroz, Eugene, assignor of three and one-half one-hundredths to L. Kraft, three and one-half one-hundredths to C. Török, and three and one-half one-hundredths to J. Wagner, New York, N. Y. Boat construction. No. 1,127,153; Feb. 2; Gaz. vol. 211; p. 173.
- Ambruster, Cornelius, Roslyn, Pa. Insulating-support for storage batteries. No. 1,146,298; July 13; Gaz. vol. 216; p. 482.
- Ambursen Company. (See Ambursen, Nils F., assignor.)
- Ambursen, Nils F., Brookline, assignor to Ambursen Company, Boston, Mass. Nozzle. No. 1,124,579; Jan. 12; Gaz. vol. 210; p. 526.
- Amdursky, Isidore. (See Katz, Max, assignor.)
- Amdursky, Samuel S., Syracuse, N. Y. Tub-drip. No. 1,162,124; Nov. 30; Gaz. vol. 220; p. 1486.
- Ameling, Emil. (See Heckel, Otto A., assignor.)
- Amend, Alois L., Wichita, Kans. Fly-trap. No. 1,166,306; Dec. 28; Gaz. vol. 221; p. 1378.
- America, Richard F., Philadelphia, Pa. Street and station indicator. No. 1,147,590; July 20; Gaz. vol. 216; p. 955.
- American Abrasive Metals Company. (See Jacobs, Charles B., assignor.)
- American Air-Liquifying Company. (See Place, James F., assignor.)
- American Arch Company. (See Bean, Guy M., assignor.)
- American Arch Company. (See Gaines, Frederick F., assignor.)
- American Arch Company. (See Miller, Charles E., assignor.)
- American Arch Company. (See Moore, Charles B., assignor.)
- American Arch Company. (See Neff, John P., assignor.)
- American Arch Company. (See Nelson, Arthur W., assignor.)
- American Arch Company. (See Parish, Le Grand, assignor.)
- American Arch Company. (See Savage, Harlow D., assignor.)
- American Arch Company. (See Willett, Alfred H., assignor.)
- American Assembling Machine Company. (See Curry, Claud D., assignor.) (Reissue.)
- American Automatic Shoe Polishing Machine Company, The. (See Oliver and Ohlgart, assignors.)
- American Automatic and Springless Faucet Company, The. (See Ross and McCulley, assignors.)
- American Automatic Vending Machine Company. (See Loveren, Arthur D., assignor.)
- American Automatic Water Heater Co. (See Cochran, Harry A., assignor.)
- American Bag Company. (See Noyes, Albert, assignor.)
- American Ball Bearing Company, The. (See Baker, Walter C., assignor.)
- American Bank Note Company. (See Eaton, William S., assignor.)
- American Bank Note Company. (See Marquardt, Frank C., assignor.)
- American Bank Note Company. (See Reinhardt, James H., assignor.)
- American Bank Note Company. (See Smith, Amos H., assignor.)
- American Bank Note Company. (See Smith and McHugh, assignors.)
- American Bankers Dust Proof Time Lock Company. (See Benham, Edgar M., assignor.)
- American Bankers Dust Proof Time Lock Company. (See Splvey, Thomas S., assignor.)
- American Bankers Safety Company. (See Bollwinkel and Kline, assignors.)
- American Banking Machine Corporation. (See Hosking, Richard T., assignor.)
- American Beet Topper Company. (See Gardner, William R., assignor.)
- American Blower Company. (See Akimoff, Nicholas W., assignor.)
- American Blower Company. (See Davidson, Samuel C., assignor.)
- American Blower Company. (See Luehrs, Daniel M., assignor.)
- American Brake Company. (See Burton, Thomas L., assignor.)
- American Brake Company. (See Schwentler, Francis E., assignor.)
- American Brake Shoe & Foundry Company. (See Gallagher and Jones, assignors.)
- American Brake Shoe & Foundry Company. (See Jones, Harry, assignor.)
- American Brake Shoe & Foundry Company. (See Lockard, Alan T., assignor.)
- American Brake Shoe & Foundry Company. (See Olberding and Elliott, assignors.)
- American Brake Shoe & Foundry Company. (See Peterson, Carl A., assignor.)
- American Brake Shoe & Foundry Company. (See Sargent, Fitz William, assignor.)
- American Brake Shoe & Foundry Company. (See Winter, Charles N., assignor.)
- American Can Company. (See Ayres, William, assignor.)
- American Can Company. (See Block, Michael, assignor.)
- American Can Company. (See Dixon, James W., assignor.)
- American Can Company. (See Eberhart, Felix, assignor.)
- American Can Company. (See Ford, Ben K., assignor.)
- American Can Company. (See Ford and Birch, assignors.)
- American Can Company. (See Freundt, Louis J., assignor.)
- American Can Company. (See Graham, Charles W., assignor.)
- American Can Company. (See Gray, James A., assignor.)
- American Can Company. (See Harbeck, Jervis R., assignor.)
- American Can Company. (See Hodgson, John G., assignor.)
- American Can Company. (See Hothersall, John M., assignor.)
- American Can Company. (See Jagenberg, Emil, assignor.)
- American Can Company. (See Johnson, Axel, assignor.)
- American Can Company. (See Jones, Harry W., assignor.)
- American Can Company. (See Marcuse, Isaac J., assignor.)
- American Can Company. (See Nelson, Ostlin, and Swangren, assignors.)
- American Can Company. (See Payne, Frank, assignor.)
- American Can Company. (See Pilarowski, Stephen, assignor.)
- American Can Company. (See Pittelkow, August, assignor.)
- American Can Company. (See Rudolph and Carnes, assignors.)
- American Can Company. (See Rudolphi, Frank, assignor.)
- American Can Company. (See Shaffer, Frank, assignor.)
- American Can Company. (See Sharp, Lee C., assignor.)
- American Can Company. (See Stollberg, Charles, assignor.)
- American Can Company. (See Swangren and Widell, assignors.)
- American Can Company. (See Taylor, William E., assignor.)
- American Can Company. (See Tourtellot, Henry B., assignor.)
- American Can Company. (See Ward, Thomas, assignor.)
- American Can Company. (See Weber, George W., assignor.)
- American Can Company. (See Wood, Frederick P., assignor.)
- American Can Company. (See Young, John M., assignor.)
- American Car and Foundry Company. (See Bateman, Paul, assignor.)
- American Car and Foundry Company. (See Beard, Paul M., assignor.)
- American Car and Foundry Company. (See Belcher, Charles L., assignor.)
- American Car and Foundry Company. (See Bender, George P., assignor.)
- American Car and Foundry Company. (See Campbell, Edmund D., assignor.)
- American Car and Foundry Company. (See Clarke, Allen W., assignor.)
- American Car and Foundry Company. (See Ellis, Robert G., assignor.)
- American Car and Foundry Company. (See Gibbs, Frederick H., assignor.)
- American Car and Foundry Company. (See Hochberg, Oscar, assignor.)
- American Car and Foundry Company. (See Hochberg and Cooper, assignors.)
- American Car and Foundry Company. (See Lane, Victor E., assignor.)
- American Car and Foundry Company. (See Ostrander, Allen E., assignor.)
- American Car and Foundry Company. (See Parsons, Harry E., assignor.)
- American Car and Foundry Company. (See Rohlfing, John M., assignor.)
- American Car and Foundry Company. (See Sparks, Levi C., assignor.)
- American Car and Foundry Company. (See Stevenson, Frederick A., assignor.)
- American Car and Foundry Company. (See Willoughby, Victor, assignor.)
- American Car Roof Co. (See Christy, Henry A., assignor.)
- American Carbolite Company. (See Duncan and Shoup, assignors.)
- American Cash Register Company, The. (See Wells, Byron B., assignor.)
- American Cash Register Manufacturing Company, The. (See Wells, Byron B., assignor.)
- American Cement Tile Mfg. Co. (See Finley, George I., assignor.)
- American Chain Company. (See Campbell, Andrew C., assignor.)
- American Chain Company. (See Lashar, Walter B., assignor.)
- American Chain Company. (See Luce, Thomas C., assignor.)
- American Clay Machinery Company. (See Brown, Davis, assignor.)
- American Corset Company. (See Dymock, Arthur, assignor.)

Alphabetical list of patentees—Continued.

- American Couch Company. (See Plunkett, Charles L., assignor.)
 American Creosote Works. (See Powell, Edwin L., assignor.)
 American Creosoting Company. (See Moore, Robert H., assignor.)
 American Cutlery Company. (See Chapleau, Phileas T., assignor.)
 American Cyanamid Company. (See Cooper, Kenneth F., assignor.)
 American Cyanamid Company. (See Landis, Walter S., assignor.)
 American Cycle Car Company. (See Pierce, Joseph, assignor.)
 American Cystoscope Makers. (See Wappler, Reinhold H., assignor.)
 American Dan Stopper Company, The. (See Müller, Friedrich, assignor.)
 American Die and Tool Company. (See Sternbergh, David D., assignor.)
 American District Steam Company. (See Hall, Robert, assignor.)
 American Ditching Machine Company. (See Linga, Torbjorn, assignor.)
 American Drafting Furniture Co. (See Forbes and Barkley, assignors.)
 American Drainage Company. (See Appelman, Erastus W., assignor.)
 American Electric Company. (See Burns, Peter C., assignor.)
 American Electric and Controller Company. (See Sperry, Elmer A., assignor.)
 American Electrical Heater Company. (See Kuhn and Shallor, assignors.)
 American Encaustic Tiling Company. (See Alcan, Félix, assignor.)
 American Engineering Company. (See Riley, Robert S., assignor.)
 American Engineering Company. (See Wilkinson, William S., assignor.)
 American Ever Ready Company. (See Kuskin, David K., assignor.)
 American Ferroelectric Corporation. (See Machalske, Florentine J., assignor.)
 American Flyer Manufacturing Company. (See Becker, Harry S., assignor.)
 American Fork & Hoe Company, The. (See Lowell, Erwin D., assignor.)
 American Gas Machine Company. (See Nelson, Hans Z., assignor.)
 American Granite Saw Company. (See Chase, Elroy A., assignor.)
 American Graphophone Company. (See Emerson, Victor H., assignor.)
 American Graphophone Company. (See Hays and Johnson, assignors.)
 American Graphophone Company. (See Lyle, Mervin E., assignor.)
 American Graphophone Company. (See Macdonald, Thomas H., assignor.)
 American Graphophone Company. (See Parker, William E., assignor.)
 American Graphophone Company. (See Pumphrey, Walter H., assignor.)
 American Graphophone Company. (See Sheble and Capps, assignors.)
 American Graphophone Company. (See Steventon, Thomas, assignor.)
 American Graphophone Company. (See Woods, Clinton E., assignor.)
 American Grondal Company. (See Salwén, Sven R., assignor.)
 American Hardware Corporation, The. (See Arens, August, assignor.)
 American Hardware Corporation, The. (See Charland, Frederick J., assignor.)
 American Hardware Corporation, The. (See Gérard, John, assignor.)
 American Hardware Corporation, The. (See Gold, Russell S., assignor.)
 American Hardware Corporation, The. (See Henry, William K., assignor.)
 American Hardware Corporation, The. (See Hill, Henderson F., assignor.)
 American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
 American Hardware Corporation, The. (See Leeds, Robert R., assignor.)
 American Hardware Corporation, The. (See Smyser, Louis B., assignor.)
 American Hardware Corporation, The. (See Svenson, Charles W., assignor.)
 American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
 American Hardware Corporation, The. (See Trask, William S., assignor.)
 American Hardware Corporation, The. (See Voight, Henry G., assignor.)
 American Hardware Corporation, The. (See Wessoleck, Augustus W., assignor.)
 American Heel Machine Company. (See Wolfe, William, assignor.)
 American High Speed Press Company. (See Hayes, Charles S., assignor.)
 American Highway Supply Company. (See Larsh, John M., assignor.)
 American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)
 American Holding Company. (See Buttress, George, assignor.)
 American Hosiery Company. (See Pasco, Martin K., assignor.)
 American Key Can Company. (See McColl, Francis P., assignor.)
 American La France Fire Engine Company. (See Hawley, William G., assignor.)
 American Labeling Machine Company. (See Riikonen, John, assignor.)
 American Lacing Hook Co. (See Havener, Arthur R., assignor.)
 American Laundry Machinery Company. (See Andree, William E., assignor.)
 American Laundry Machinery Company, The. (Reissue.) (See Bercaw, John W., assignor.)
 American Laundry Machinery Company. (See Binder, Gottlob, assignor.)
 American Laundry Machinery Company. (See Cooper, Daniel M., assignor.)
 American Laundry Machinery Company. (See Hagen and Binder, assignors.)
 American Laundry Machinery Company. (See Kelso and Binder, assignors.)
 American Life Saving Garment Company. (See Garrison, Charles, assignor.)
 American Linen Fibre Company. (See Cooke, Clayton G., assignor.)
 American Lithographic Company. (See Banzett, William H., assignor.)
 American Lock Nut Company. (See Radcliffe, Benjamin D., assignor.)
 American Locomotive Company. (See Mellin, Carl J., assignor.)
 American Machine & Foundry Company. (See Rejsek, Rudolph, assignor.)
 American Metal Cap Co., The. (See Hammer, Charles, assignor.) (Reissue.)
 American Metal Weather Strip Company. (See Gould, Albert E., assignor.)
 American Metal Wheel & Auto Company, The. (See Barschow, George H., assignor.)
 American Mineral Wood Manufacturing Company. (See Ferla, John, assignor.)
 American Mining Tool Company. (See Hallander, John A., assignor.)
 American Moistening Company. (See Comfort, Edward W., assignor.)
 American Morgan Company. (See Morgan, Edmund C., assignor.)
 American Multigraph Company, The. (See Allen, William R., assignor.)
 American Multigraph Company, The. (See Bates, Albert H., assignor.)
 American Multigraph Company, The. (See Gammeter, Harry C., assignor.)
 American Multigraph Company, The. (See Trundle, George T., Jr., assignor.)
 American Multinola Company, The. (See Le Pontois, Leon J., assignor.)
 American Nitro-Products Company. (See Brownlee and Uhlinger, assignors.)
 American Optical Company. (See Bugbee, Lucian W., assignor.)
 American Optical Company. (See Day, George H., assignor.)
 American Optical Company. (See Emerson, Alfred H., assignor.)
 American Optical Company. (See Sibley, Lyman E., assignor.)
 American Paper Goods Company, The. (See Cooley, Henry B., assignor.)
 American Paper Products Company. (See Gores, Henry N., assignor.)
 American Paper Products Company. (See Jones and Rexford, assignors.)
 American Paper Products Company. (See Jones, Rexford, and Gores, assignors.)
 American Paper Products Company. (See Rexford, Ley P., assignor.)
 American Patent Holding Co. (See Thompson, George F., assignor.) (Reissue.)
 American Patent Manufacturing Company. (See Bryant, Henry E., assignor.)
 American Perforator Company. (See Day, Alfred L., assignor.)
 American Pin Company. (See Courtland, William A., assignor.)
 American Pin Company. (See Harcke, Gustav E., assignor.)
 American Pin Company. (See Kast, Henry J., assignor.)
 American Plaster-Drill Co. (See Kunitz, Benjamin, assignor.)
 American Player Action Company. (See Turney, Eugene T., assignor.)

Alphabetical list of patentees—Continued.

- American Pneumatic Service Company. (See Fordyce, Edmond A., assignor.)
 American Pneumatic Service Company. (See Jennings, Chester S., assignor.)
 American Postal Machines Company, The. (See Stoddard, Thomas G., assignor.)
 American Pulley Company, The. (See Bowen, Russell H., assignor.)
 American Pulley Company, The. (See Brinley, Charles A. and C. E., assignors.)
 American Pulley Company, The. (See Walther, Richard J., assignor.)
 American Radiator Company. (See Sutton, William S., assignor.)
 American Radiator Company. (See Thompson, Charles B., assignor.)
 American Rolling Mill Company, The. (See Freese, Jonathan R., assignor.)
 American Rolling Mill Company, The. (See Lewis, Abraham A., assignor.)
 American Rotary Motor Company. (See Mears, William N., assignor.)
 American Rotary Valve Company. (See Moorhead, Albert E., assignor.)
 American Safety Device Company. (See Johnston, Frank B., assignor.)
 American Sales Book Company. (See Bottle, Edward K., assignor.)
 American Sales Book Company. (See Greig, Walter, assignor.)
 American Sales Book Company. (See Hageman, Louis F., Jr., assignor.)
 American Sales Book Company. (See Pringle, William A., assignor.)
 American Sanitary Lock Company. (See Garvin, Benjamin, assignor.)
 American Sanitary Works. (See Florey, Tilghman J., assignor.)
 American Saw and Manufacturing Company. (See Ericson, Carl L., assignor.)
 American Seating Company. (See Wills, Wayne, assignor.)
 American Seeding Machine Company, The. (See Huntington, Hiram H., assignor.)
 American Seedtape Company. (See Gray, Edward E. and D. E., assignors.)
 American Sheet Metal Elbow Company. (See Robertson, Robert R., assignor.)
 American Sheet and Tin Plate Company. (See Beck, Berthold G., assignor.)
 American Sheet & Tin Plate Company. (See Gibson and Skemp, assignors.)
 American Sheet & Tin Plate Company. (See Lindquist and Pisarcik, assignors.)
 American Sheet and Tin Plate Company. (See McIlvried, Howard G., assignor.)
 American Sheet and Tin Plate Company. (See Ryan, Winfred T., assignor.)
 American Sheet & Tin Plate Company. (See White, George A., assignor.)
 American Shoe Finding Company, The. (See Waterman, Bradford B., assignor.)
 American Shop Equipment Co. (See Lunger, Waldo G., assignor.)
 American Sign Company. (See Bambeck, Edward, assignor.)
 American Skate & Manufacturing Company. (See Deem, Miller M., assignor.)
 American Skeln & Foundry Company. (See Simms, Horace R., assignor.)
 American Slicing Machine Company. (See McCormick, John I., assignor.)
 American Smelting & Refining Company. (See Whitehead, Robert L., assignor.)
 American Smokeless Burner Company. (See Niedergsaess, Robert, assignor.)
 American Specialty Co., The. (See Egge, Frederick, assignor.)
 American Stamping Co. (See Andrews, Herbert B., assignor.)
 American Stamping Machine Company. (See Woodward, Erastus, assignor.)
 American Standard Motion Picture Machine Company. (See Uebelmesser, Charles R., assignor.)
 American Standard Oil Burner Co. (See King, Joseph H., assignor.)
 American Steam Gauge & Valve Manufacturing Co. (See Collette, Austin B., assignor.)
 American Steam Gauge and Valve Manufacturing Company. (See Hopkins, Frank H., assignor.)
 American Steam Gauge & Valve Manufacturing Company. (See Manning, Coleman J., assignor.)
 American Steel Foundries. (See Allen, Harry L., assignor.)
 American Steel Foundries. (See Bauer, Carl E., assignor.)
 American Steel Foundries. (See Darby, Robert F., assignor.)
 American Steel Foundries. (See Davis, James C., assignor.)
 American Steel Foundries. (See Davis, Henke, and Hawley, assignors.)
 American Steel Foundries. (See Floyd, George G., assignor.)
 American Steel Foundries. (See Fowler, William E., Jr., assignor.)
 American Steel Foundries. (See Hedgecock, William C., assignor.)
 American Steel Foundries. (See Janney and Kinne, assignors.)
 American Steel Foundries. (See Kinne, Edmund P., assignor.)
 American Steel Foundries. (See Lamont, John A., assignor.)
 American Steel Foundries. (See Lynch, Warren J., assignor.)
 American Steel Foundries. (See Palmquist, Eric W., assignor.)
 American Steel Foundries. (See Peycke, Armand H., assignor.)
 American Steel Foundries. (See Scott, George E., assignor.)
 American Steel Foundries. (See Shoemaker, Dudley, assignor.)
 American Steel Foundries. (See Stuart, John R., assignor.)
 American Steel Foundries. (See Trowbridge, William S., assignor.)
 American Steel Foundries. (See Weinland, Joseph W., assignor.)
 American Steel Foundries. (See Whitney, Loren L., assignor.)
 American Steel Package Company, The. (See Kruse, August M., assignor.)
 American Steel Package Company, The. (See Willock, Curtis M., assignor.)
 American Steel & Wire Company, The. (See Viall, Charles P., assignor.)
 American Steel & Wire Company of New Jersey. (See Ayers, Burley B., assignor.)
 American Steel & Wire Company of New Jersey. (See Hindmarsh, Percy J., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Ingraham and Lynch, assignors.)
 American Steel & Wire Company of New Jersey, The. (See Kilmer, William A., assignor.)
 American Steel & Wire Company of New Jersey. (See Merkt, Gustav A., assignor.)
 American Steel & Wire Company of New Jersey, The. (See Phifer, James S., assignor.)
 American Steel & Wire Company of New Jersey, The. (See Sturdevant and Benoit, assignors.)
 American Steel & Wire Company, of New Jersey, The. (See Weaver and Hauk, assignors.)
 American Sterilizer Company. (See Underwood, Weeden B., assignor.)
 American Stopper Company. (See Perry, Eugene L., assignor.)
 American Stove Company. (See Boekenkamp, Edward, assignor.)
 American Stove Company. (See Child and Munzner, assignors.)
 American Stove Company. (See Meacham, Benjamin E., assignor.)
 American Stove Company. (See Nicolaus, Frederic G., assignor.)
 American Stove Company. (See Possons, Minard A., assignor.)
 American Stove Company. (See Ruppel, Henry, assignor.)
 American Stove Company. (See Stockstrom, Louis, assignor.)
 American Stove Company. (See Weaver, Charles E., assignor.)
 American Tampon and Applicator Company, The. (See Ellis, Avarad A., assignor.)
 American Tap Bush Co. (See Rice, Frank E., assignor.)
 American Telegraphone Company. (See Tiffany, George S., assignor.)
 American Telegraphone Company. (See Washburn, Howard L., assignor.)
 American Telephone and Telegraph Company. (See Browne, Sidney H., assignor.)
 American Telephone and Telegraph Company. (See Clark, Alva B., assignor.)
 American Telephone and Telegraph Company. (See Hoyt, Ray S., assignor.)
 American Telephone and Telegraph Company. (See Molina, Edward C., assignor.)
 American Telephone and Telegraph Company. (See Shaw, Thomas, assignor.)
 American Textile Company. (See Thompson, Thomas, assignor.)
 American 3-Way Prism Company. (See Vannaman, Silas R., assignor.)
 American Tire Company, The. (See Dees, Mark A., assignor.)
 American Tobacco Company, The. (See Wright, Benjamin S., assignor.)
 American Tool Handle Company. (See Renkenberger, Edward J., assignor.)
 American Tool & Machine Company. (See Barker and Adams, assignors.)

Alphabetical list of patentees—Continued.

- American Tool & Machine Company. (See Phillips, Eli W., assignor.)
 American Tool Works. (See Karcher, Arthur A., assignor.)
 American Tool Works Company, The. (See Robinson, Albert E., assignor.)
 American Tool Works Company. (See Schatz, Herman W., assignor.)
 American Toy Works. (See Wankel, Frank, assignor.)
 American Train Control Company, The. (See Jones, Frank T., assignor.)
 American Trolley Wheel Company. (See Anderson, John W., assignor.)
 American Type Founders Company. (See Hay, Levi C., assignor.)
 American Type Founders Company. (See Kelly, William M., assignor.)
 American Type Founders Company. (See Springer, Winton L., assignor.)
 American Valve & Meter Company, The. (See Anderson, Frank C., assignor.)
 American Voting Machine Company. (See Butler, James A., assignor.)
 American Vulcanized Fibre Company. (See Lawton, Stanley H., assignor.)
 American Warp-Drawing Machine Company. (See Blair, Charles E., assignor.)
 American Warp Drawing Machine Company. (See Hathaway, Edgar F., assignor.)
 American Warp-Drawing Machine Company. (See Hathaway and Lea, assignors.)
 American Warp Drawing Machine Company. (See Lanning and Hathaway, assignors.)
 American Warp Drawing Machine Company. (See Lea, Charles, assignor.)
 American Water Supply Company of New England. (See Bohlman, George J., assignor.)
 American Water Supply Company of New England. (See Hussey, Alfred R., assignor.)
 American Water Supply Company of New England. (See Provandie, Herbert F., assignor.)
 American Water Supply Company of New England. (See Provandie and Whitney, assignors.)
 American Water Supply Company of New England. (See Silveira, Henry M., assignor.)
 American Well Works, The. (See Bodinson, Lars W., assignor.)
 American Well Works, The. (See Chapman, Matthew T., assignor.)
 American Well Works, The. (See Chapman, Matthew T. and M. C., assignors.)
 American Window Glass Machine Company. (See Thornburg, Lincoln A., assignor.)
 American Window Screen Company. (See Vanstrom, John, assignor.)
 American Wood Encysting Co. (See Marr, Robert A., assignor.) (Relssue.)
 American Writing Paper Company. (See Howe, Henry P., assignor.)
 Amerman, John E., Brooklyn, N. Y. Gas-engine igniter. No. 1,162,206; Nov. 30; Gaz. vol. 220; p. 1513.
 Ames, Albert F., Battle Creek, Mich. Lubricator. No. 1,148,493; Aug. 3; Gaz. vol. 217; p. 3.
 Ames, Alexander, Alluwe, Okla. Means preventing the accumulation of gas within oil-wells. No. 1,139,745; May 18; Gaz. vol. 214; p. 785.
 Ames, Bliss C., Waltham, Mass., assignor to The E. Ingraham Co., Bristol, Conn. Watch-bezel with unbreakable concavo-convex tensional crystal. No. 1,133,780; Mar. 30; Gaz. vol. 212; p. 1552.
 Ames Bonner Company, The. (See Jobst, Conrad, assignor.)
 Ames, Butler, Lowell, Mass. Armature-spring. No. 1,140,432; May 25; Gaz. vol. 214; p. 1062.
 Ames, Butler, Lowell, Mass. Adjusting-post. No. 1,140,433; May 25; Gaz. vol. 214; p. 1062.
 Ames, Butler, Lowell, Mass. Spark-coil. No. 1,153,005; Sept. 7; Gaz. vol. 218; p. 229.
 Ames, Butler, Lowell, Mass. Armature for magnetos. No. 1,153,006; Sept. 7; Gaz. vol. 218; p. 229.
 Ames, Butler, Lowell, Mass. Dough-raising device. No. 1,162,897; Dec. 7; Gaz. vol. 221; p. 56.
 Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Needle-controlling mechanism. No. 1,149,884; Aug. 10; Gaz. vol. 217; p. 603.
 Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Transmission mechanism. No. 1,151,431; Aug. 24; Gaz. vol. 217; p. 1257.
 Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Mechanical movement. No. 1,155,191; Sept. 28; Gaz. vol. 218; p. 1038.
 Ames, George W., Staples, Minn. Guard for water-glasses. No. 1,144,805; June 29; Gaz. vol. 215; p. 1428.
 Ames Holden McCready, Ltd. (See Johnson, Andrew L., assignor.)
 Ames, James W., Montclair, and L. J. Batzle, Bayonne, assignors to W. Ames & Co., Jersey City, N. J. Spike-machine. No. 1,138,171; May 4; Gaz. vol. 214; p. 158.
 Ames, Joseph A., assignor to T. W. McGovern, Columbus, Ohio. Insole. No. 1,156,026; Oct. 5; Gaz. vol. 219; p. 243.
 Ames, William H. (See Harlan, Claud E., assignor.)
 Amet, Edward H., Redondo Beach, Cal. Method of and means for localizing sound reproduction. No. 1,124,580; Jan. 12; Gaz. vol. 210; p. 527.
 Amet, Edward H., Redondo Beach, Cal. Combined phonographic and motion-picture apparatus for producing indexed synchronous records. No. 1,162,433; Nov. 30; Gaz. vol. 220; p. 1591.
 Amidon, Thomson S. (See Westman, Emil, assignor.)
 Amies, Joseph H., Philadelphia, Pa. Making a cementitious plastic composition. No. 1,150,481; Aug. 17; Gaz. vol. 217; p. 876.
 Amis, John C., Toms Creek, Va. Jig. No. 1,146,682; July 13; Gaz. vol. 216; p. 618.
 Amiss, Benjamin F., Salem, Va. Leach-sprayer. No. 1,130,561; Mar. 2; Gaz. vol. 212; p. 253.
 Amling, Henry. (See Simmons, Sheridan D., assignor.)
 Amling, Henry. (See Simmons and Amling.)
 Amman, Albert F., Bloomington, Nebr. Folding crate. No. 1,123,461; Jan. 5; Gaz. vol. 210; p. 91.
 Amman, Albert F., Naponee, Nebr. Fire-escape. No. 1,158,952; Nov. 2; Gaz. vol. 220; p. 189.
 Ammann, Everett M. (See Armstrong, John J., Sr., assignor.)
 Ammon, John, assignor to H. Christman, New York, N. Y. Piano-key. No. 1,166,351; Dec. 28; Gaz. vol. 221; p. 1393.
 Ammon, Karl, Berlin-Tempelhof, Germany. Cryptographic type-writing machine. No. 1,149,803; Aug. 10; Gaz. vol. 217; p. 574.
 Ammons, Evander, *et al.* (See Ammons, John B., assignor.)
 Ammons, John B., assignor of one-tenth to E. Ammons and one-fifteenth to O. McGaffey, Houston, Tex. Fire-alarm system. No. 1,132,245; Mar. 16; Gaz. vol. 212; p. 913.
 Ammons, John B., assignor of one-tenth to E. Ammons and one-fifteenth to O. McGaffey, Houston, Tex. Automatic fire-alarm system. No. 1,132,419; Mar. 16; Gaz. vol. 212; p. 975.
 Ammons, John B., assignor of one-tenth to E. Ammons and one-fifteenth to O. McGaffey, Houston, Tex. Fire-alarm system. No. 1,134,064; Mar. 30; Gaz. vol. 212; p. 1647.
 Annelius, Theodore, South Framingham, Mass. Propeller. No. 1,146,121; July 13; Gaz. vol. 216; p. 421.
 Amon, Josef. (See Hadaway and Amon.)
 Amos, Richard W., Brooklyn, N. Y., assignor to National Purification Company. Disposition of garbage, sludge, and like substances. No. 1,165,368; Dec. 21; Gaz. vol. 221; p. 1006.
 Amos, Richard W., Brooklyn, N. Y., assignor to National Purification Company. Sewage-filtering system. No. 1,165,741; Dec. 28; Gaz. vol. 221; p. 1177.
 Amouroux, André S., Vizille, France. Machine for folding vermicelli and similar products. No. 1,145,874; July 13; Gaz. vol. 216; p. 335.
 Amper Electric Co. (See Robinson, Theodore D., assignor.)
 Amphion Piano Player Company, The. (See Doman, Lewis B., assignor.)
 Ampt, Norman C., St. Kilda, Victoria, Australia. Stretcher and the like. No. 1,150,008; Aug. 17; Gaz. vol. 217; p. 709.
 Amrhein, Georg, assignor to Wildsche Buchdruckerel Gehr. Parcus, Munich, Germany. Machine for perforating strips for single-type-casting machines. No. 1,158,767; Nov. 2; Gaz. vol. 220; p. 126.
 Amrhein, Henry, executor. (See Hartmann, Louis.)
 Amrhein, Henry, executor. (See Iden and Suckert.)
 Ansel, Henry, and B. Reichard, New York, N. Y. Extension-table. No. 1,153,666; Sept. 14; Gaz. vol. 218; p. 499.
 Amsler, Walter O., Pittsburgh, Pa. Gas-producer. No. 1,149,611; Aug. 10; Gaz. vol. 217; p. 505.
 Amstrutz, Noah S., Valparaiso, Ind. Microscopy. No. 1,145,959; July 13; Gaz. vol. 216; p. 363.
 Anthor, Fritz E., assignor to The Schaeffer & Budenberg Mfg. Co., Brooklyn, N. Y. Thermometer. No. 1,165,564; Dec. 28; Gaz. vol. 221; p. 1112.
 Anthor, Fritz E., assignor to The Schaeffer & Budenberg Mfg. Co., Brooklyn, N. Y. Compensating thermometer. No. 1,165,934; Dec. 28; Gaz. vol. 221; p. 1242.
 Amundson, Alfred, Canby, Minn. Road-grader attachment for wagons. No. 1,138,172; May 4; Gaz. vol. 214; p. 159.
 Amundson, George C., Grayling, Minn. Rail-fastener. No. 1,150,323; Aug. 17; Gaz. vol. 217; p. 822.
 Amuse-U-Riding Device. (See Greene, John W., assignor.)
 Amyx, C. B. (See Phipps, Isaac N., assignor.)
 Anable, Frederick S., assignor to National Binding Machine Company, Boston, Mass. Strip-serving device. No. 1,147,290; July 20; Gaz. vol. 216; p. 849.
 Anable, Frederick S., assignor to National Binding Machine Company, Boston, Mass. Strip-serving device. No. 1,150,802; Aug. 17; Gaz. vol. 217; p. 986.
 Anastasi, Anthony, assignor to Anastasi Life-Boat Company, Boston, Mass. Buoyant life-boat. No. 1,124,248; Jan. 12; Gaz. vol. 210; p. 406.
 Anastasi Life-Boat Company. (See Anastasi, Anthony, assignor.)
 Anchor Cap & Closure Corporation. (See Hull, Joseph V., assignor.)

Alphabetical list of patentees—Continued.

- Anchor Cap & Closure Corporation. (See Magrane, Robert, assignor.)
- Anchor Cap & Closure Corporation. (See Townsend, Harry E., assignor.)
- Ancona, John F. (See Ancona, John F. and J. F.)
- Ancona, John F., Reading, Pa., and J. F. Ancona, Rochester, N. Y. Reading device. No. 1,165,219; Dec. 21; Gaz. vol. 221; p. 956.
- And. H. Kiaer & Co. (See Strehlenert, Robert W., assignor.)
- Anderau, Joseph E., Terlingua, Tex. Heater for gaseous fluids. No. 1,132,420; Mar. 16; Gaz. vol. 212; p. 975.
- Anderegg, Edward W., assignor to The Algoma Fly Net Company, Algoma, Wis. Tipping-machine. No. 1,150,324; Aug. 17; Gaz. vol. 217; p. 822.
- Anderegg, Edward W., assignor to The Algoma Fly Net Company, Algoma, Wis. Net. No. 1,150,325; Aug. 17; Gaz. vol. 217; p. 822.
- Anderegg, Edward W., Algoma, assignor to Gem Hammock & Fly Net Co., Milwaukee, Wis. Fly-net. No. 1,156,654; Oct. 12; Gaz. vol. 219; p. 489.
- Anderegg, Gustavus A., Oak Park, Ill., assignor to Western Electric Company, New York, N. Y. Manufacture of electric cables. No. 1,124,249; Jan. 12; Gaz. vol. 210; p. 406.
- Anderman, Henry. (See Peters, Charles H., assignor.)
- Anders, George L., Sydenham, London, England, assignor of one-half to W. Kitzgen, Berlin, Germany. Electromagnetic selecting apparatus. No. 1,124,192; Jan. 5; Gaz. vol. 210; p. 339.
- Andersen, Alfred, Minneapolis, Minn. Harrow. No. 1,145,653; July 6; Gaz. vol. 216; p. 237.
- Andersen, Charles L., East Chicago, and L. M. Kniffin, Hammond, Ind. Spring-wheel. No. 1,127,154; Feb. 2; Gaz. vol. 211; p. 173.
- Andersen, Edward, and H. M. Mink, assignors to J. P. Zens and W. J. Cavanagh, Kenosha, Wis. Door-hinge. No. 1,134,309; Apr. 6; Gaz. vol. 213; p. 83.
- Andersen, Johan M., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Time-switch. No. 1,156,126; Oct. 12; Gaz. vol. 219; p. 305.
- Anderson, Johan M., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Controlling device. No. 1,165,935; Dec. 28; Gaz. vol. 221; p. 1242.
- Andersen, Lauritz W., Waterbury, Conn. Socket-shell. No. 1,159,346; Nov. 9; Gaz. vol. 220; p. 357.
- Andersen, Lauritz W., assignor to The Plume and Atwood Manufacturing Company, Waterbury, Conn. Two-piece socket cover and holder. No. 1,125,248; Jan. 19; Gaz. vol. 210; p. 801.
- Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Manufacturing screws. No. 1,145,737; July 6; Gaz. vol. 216; p. 268.
- Andersen, Nils E., Miami, Fla. Extension-boom. No. 1,163,497; Dec. 7; Gaz. vol. 221; p. 266.
- Andersen, Otto E., Harris, Iowa. Adjustable wagon-seat. No. 1,158,953; Nov. 2; Gaz. vol. 220; p. 190.
- Anderson, Alexander, Chicago, Ill., assignor to H. H. Beckwith, Boston, Mass. Apparatus for softening parts of assembled unlashed shoe-uppers. No. 1,132,645; Mar. 23; Gaz. vol. 212; p. 1107.
- Anderson, Alexander P., Chicago, Ill. Pebbling starch materials. No. 1,129,440; Feb. 23; Gaz. vol. 211; p. 1096.
- Anderson, Alfred. (See Anderson, Frank O., assignor.)
- Anderson, Alfred. (See Thulander, Konstantine, assignor.)
- Anderson, Alfred A., Jamestown, N. Y. Secret drawer. No. 1,147,998; July 27; Gaz. vol. 216; p. 1125.
- Anderson, Alice M., St. Louis, Mo. Stenotype-keyboard. No. 1,143,160; June 15; Gaz. vol. 215; p. 803.
- Anderson, Anders, Lindsay, Nebr. Mail-box attachment. No. 1,123,650; Jan. 5; Gaz. vol. 210; p. 155.
- Anderson, Anders, Garnet, Mich. Log-loader. No. 1,133,526; Mar. 30; Gaz. vol. 212; p. 1461.
- Anderson, Andrew, Glenhazel, Pa. Protected flexible shoe-sole. No. 1,134,803; Apr. 6; Gaz. vol. 213; p. 263.
- Anderson, Andrew, Portland, Oreg. Power-transmission mechanism. No. 1,153,882; Sept. 21; Gaz. vol. 218; p. 610.
- Anderson, Andrew J., Parsons, Pa. Draft-regulator. No. 1,157,490; Oct. 19; Gaz. vol. 219; p. 813.
- Anderson, Andrew O., et al. (See Anderson, Martin E., assignor.)
- Anderson, Andrew R., North Arlington, assignor of one-half to J. H. Paul, Newark, N. J. Shoe-last. No. 1,163,630; Dec. 14; Gaz. vol. 221; p. 357.
- Anderson, Andrew S., Point Richmond, assignor of nine one-hundredths to C. H. Woodruff, twenty-five one-hundredths to W. B. Richmond, Richmond, and fifteen one-hundredths to J. Roth, Point Richmond, Cal. Transmission mechanism. No. 1,143,928; June 22; Gaz. vol. 215; p. 1092.
- Anderson, Arthur G., Brayton, Iowa. Automatic train-stopping device. No. 1,148,277; July 27; Gaz. vol. 216; p. 1225.
- Anderson, Arthur J., Chicago Heights, Ill. Spring-wheel. No. 1,158,157; Oct. 26; Gaz. vol. 219; p. 1109.
- Anderson, Arvid R., Columbus, Ohio. Automatic circuit-breaker. No. 1,161,278; Nov. 23; Gaz. vol. 220; p. 1143.
- Anderson, August, Louisville, Ky. Animal-controlling device. No. 1,125,247; Jan. 19; Gaz. vol. 210; p. 801.
- Anderson, August P., Newport, R. I. Antirattling device for window-blinds. No. 1,160,123; Nov. 16; Gaz. vol. 220; p. 688.
- Anderson, Axel, St. Paul, assignor to Russell Grader Manufacturing Company, Minneapolis, Minn. Draft-rigging. No. 1,153,007; Sept. 7; Gaz. vol. 218; p. 230.
- Anderson, Axel G. (See Johnson and Anderson.)
- Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
- Anderson, Carl E., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,164,446; Dec. 14; Gaz. vol. 221; p. 644.
- Anderson, Carl E., and E. E. Fey, San Francisco, Cal. Rotary-piston internal-combustion engine. No. 1,147,838; July 27; Gaz. vol. 216; p. 1069.
- Anderson, Carl H. (See Anderson, Eloy, assignor.)
- Anderson, Carl J., Sanborn, N. D. Land-packer. No. 1,135,091; Apr. 13; Gaz. vol. 213; p. 404.
- Anderson, Carl J., Chicago, Ill., assignor, by mesne assignments, to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Switch. No. 1,140,491; May 25; Gaz. vol. 214; p. 1084.
- Anderson, Carl W., Jamestown, N. Y. Pulley. No. 1,151,748; Aug. 31; Gaz. vol. 217; p. 1413.
- Anderson, Charles A., and S. Trepp, East Orange, N. J. Pencil-holder. No. 1,130,696; Mar. 9; Gaz. vol. 212; p. 333.
- Anderson, Charles B., Ruffton, Ind. Pumping-jack. No. 1,153,746; Sept. 14; Gaz. vol. 218; p. 527.
- Anderson, Charles E., Chicago, Ill. Automatic furnace-regulator. No. 1,139,095; May 11; Gaz. vol. 214; p. 522.
- Anderson, Charles E., Needham, Mass. Liquid-flow meter. No. 1,161,279; Nov. 23; Gaz. vol. 220; p. 1144.
- Anderson, Charles H., Cincinnati, Ohio. Steel car. No. 1,123,651; Jan. 5; Gaz. vol. 210; p. 155.
- Anderson, Charles H., Cincinnati, Ohio. Steel passenger car. No. 1,123,652; Jan. 5; Gaz. vol. 210; p. 156.
- Anderson, Charles H., Cincinnati, Ohio. Window-sash lock. No. 1,137,828; May 4; Gaz. vol. 214; p. 37.
- Anderson, Charles H., Cincinnati, Ohio. Floor for steel cars. No. 1,147,999; July 27; Gaz. vol. 216; p. 1125.
- Anderson, Charles H., Cincinnati, Ohio. Steel passenger-car. No. 1,148,000; July 27; Gaz. vol. 216; p. 1125.
- Anderson, Charles H., Cincinnati, Ohio. Passenger-car. No. 1,148,001; July 27; Gaz. vol. 216; p. 1126.
- Anderson, Charles H., Cincinnati, Ohio. Metal passenger-car. No. 1,148,002; July 27; Gaz. vol. 216; p. 1126.
- Anderson, Charles H., and T. Elliott, Cincinnati, Ohio. Window for vestibules of street-cars. No. 1,153,008; Sept. 7; Gaz. vol. 218; p. 230.
- Anderson, Charles J., Melrose, Oreg. Shock-absorber. No. 1,151,326; Aug. 24; Gaz. vol. 217; p. 1222.
- Anderson, Charles L., Denver, Col. Disappearing top for automobile-bodies. No. 1,156,738; Oct. 12; Gaz. vol. 219; p. 518.
- Anderson, Charles O., Cleveland, Ohio. Drier, tempering-heater, and cooker. No. 1,132,422; Mar. 16; Gaz. vol. 212; p. 976.
- Anderson, Charles O., Waterville, Kans. Agricultural machine. No. 1,163,194; Dec. 7; Gaz. vol. 221; p. 161.
- Anderson, Charles O., Omaha, Nebr., assignor, by mesne assignments, of two-thirds to L. D. Spaulding. Slack-adjuster for railway-brakes. No. 1,125,035; Jan. 19; Gaz. vol. 210; p. 723.
- Anderson, Charles O., Omaha, Nebr., assignor, by mesne assignments, of two-thirds to L. D. Spaulding. Automatic slack-adjuster. No. 1,147,777; July 27; Gaz. vol. 216; p. 1046.
- Anderson, Charles O., Omaha, Nebr., assignor, by mesne assignments, of two-thirds to L. D. Spaulding. Railway-brake rigging. No. 1,160,358; Nov. 16; Gaz. vol. 220; p. 770.
- Anderson, Charles O., assignor of seven-tenths to A. T. Austin and three-tenths to W. A. Austin, Omaha, Nebr. Railway-switch or the like. No. 1,128,568; Feb. 16; Gaz. vol. 211; p. 755.
- Anderson, Charles O., assignor of seven-tenths to A. T. Austin and three-tenths to W. A. Austin, Omaha, Nebr. Railway-switch or the like. No. 1,163,631; Dec. 14; Gaz. vol. 221; p. 357.
- Anderson, Charles R. (See Brooks and Anderson.)
- Anderson, Charles S., Minneapolis, Minn. Cylinder-boring machine. No. 1,152,590; Sept. 7; Gaz. vol. 218; p. 78.
- Anderson, Charles V., Salt Lake City, Utah. Curtain-pole-lifting device. No. 1,159,819; Nov. 9; Gaz. vol. 220; p. 528.
- Anderson, Charles W. (See Hinchliff and Anderson.)
- Anderson, Christ, Two Harbors, Minn. Door operating and controlling mechanism. No. 1,145,736; July 6; Gaz. vol. 216; p. 267.
- Anderson, Clayton & Company. (See Treese, Albert L., assignor.)
- Anderson, Cloyd F. and W. C., Denver, Colo. Coffee-percolator. No. 1,130,131; Mar. 2; Gaz. vol. 212; p. 100.
- Anderson, David, Christine, N. D. Rein-guard. No. 1,136,920; Apr. 27; Gaz. vol. 213; p. 1124.

Alphabetical list of patentees—Continued.

- Anderson, David R. (See Giberson and Anderson.)
- Anderson, David W., La Fayette, Ind. Making convex or concave bodies of felt or other flexible substances. No. 1,145,654; July 6; Gaz. vol. 216; p. 237.
- Anderson, Dow M. (See James, Anderson, and Allen.)
- Anderson, Edward. (See Liebig and Anderson.)
- Anderson, Edward, assignor of one-half to A. H. Haussou, St. Paul, Minn. Securing means for a removable pulley-housing. No. 1,142,870; June 15; Gaz. vol. 215; p. 701.
- Anderson, Edward, assignor of one-half to N. P. Larson, Minneapolis, Minn. Safety attachment for gas-burners. No. 1,163,878; Dec. 14; Gaz. vol. 221; p. 446.
- Anderson, Edward C. (See Frisk and Anderson.)
- Anderson, Edward L., assignor to R. and G. Company, Attleboro, Mass. Combined match-case and cigar-cutter. No. 1,156,513; Oct. 12; Gaz. vol. 219; p. 439.
- Anderson, Edward V., Monessen, assignor of one-half to C. E. Golden, Crafton, Pa. Fluid-controlled electric regulator. No. 1,164,159; Dec. 14; Gaz. vol. 221; p. 543.
- Anderson Electric Car Company. (See Medhurst, Arthur W., assignor.)
- Anderson, Elihu M., Holsington, Kans. Collapsible container. No. 1,160,815; Nov. 16; Gaz. vol. 220; p. 934.
- Anderson, Elmer V., Morristown, Minn. Egg-turning device. No. 1,136,918; Apr. 27; Gaz. vol. 213; p. 1123.
- Anderson, Eloy, assignor to C. H. Anderson, Los Angeles, Cal. Flexible arch-support. No. 1,133,781; Mar. 30; Gaz. vol. 212; p. 1552.
- Anderson, Emery E., Ellsworth, Iowa. Shoe structure. No. 1,162,011; Nov. 30; Gaz. vol. 220; p. 1446.
- Anderson, Emil. (See Johnson, Fred, assignor.)
- Anderson, Emil, New York, N. Y., assignor to The Universal Turbine Company, Jersey City, N. J. Turbine. No. 1,134,985; Apr. 13; Gaz. vol. 213; p. 367.
- Anderson, Emil, New York, N. Y., assignor to The Universal Turbine Company, Newark, N. J. Turbine. No. 1,138,173; May 4; Gaz. vol. 214; p. 159.
- Anderson, Emil, New York, N. Y., assignor to The Universal Turbine Company, Jersey City, N. J. Yieldable gearing. No. 1,165,381; Dec. 28; Gaz. vol. 221; p. 1049.
- Anderson, Emil A., Swea City, Iowa. Cleaner for excavating-dippers. No. 1,128,215; Feb. 9; Gaz. vol. 211; p. 583.
- Anderson, Emil A., Swea City, Iowa. Shovel. No. 1,146,609; July 13; Gaz. vol. 216; p. 593.
- Anderson, Erik, San Francisco, Cal. Combined harrow and cultivator. No. 1,155,192; Sept. 28; Gaz. vol. 218; p. 1089.
- Anderson, Ernest D., New York, N. Y. Packing and wrapping machine. No. 1,151,233; Aug. 24; Gaz. vol. 217; p. 1193.
- Anderson, Ernest D., New York, N. Y. Means for charging receptacles. No. 1,161,581; Nov. 23; Gaz. vol. 220; p. 1250.
- Anderson, Ernst G., Cranford, N. J. Adjusting device for the note-sheets of self-playing musical instruments. No. 1,134,986; Apr. 13; Gaz. vol. 213; p. 367.
- Andersoa, F. M., et al. (See Highley, John P., assignor.)
- Anderson, Fortesque W., assignor to H. C. and H. W. Anderson, Middletown, N. Y. Folding table. No. 1,165,382; Dec. 28; Gaz. vol. 221; p. 1049.
- Anderson, Frank A. (See Voorhees and Anderson.)
- Anderson, Frank B., Cleveland, Ohio. Drier, tempering-heater, and cooker. No. 1,132,421; Mar. 16; Gaz. vol. 212; p. 976.
- Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Switch-stand semaphore mechanism. No. 1,141,296; June 1; Gaz. vol. 215; p. 74.
- Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Combined target and interlock operating switch-stand. No. 1,141,905; June 1; Gaz. vol. 215; p. 287.
- Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Switch-stand semaphore mechanism. No. 1,141,906; June 1; Gaz. vol. 215; p. 288.
- Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Switch-stand crank mechanism. No. 1,141,907; June 1; Gaz. vol. 215; p. 289.
- Anderson, Frank G., et al. (See Anderson, Martin E., assignor.)
- Anderson, Frank J., Box Elder, Mont. Fly-killing apparatus. No. 1,155,697; Oct. 5; Gaz. vol. 219; p. 129.
- Anderson, Frank O., assignor to A. Anderson, Minneapolis, Minn. Ring-expander. No. 1,139,149; May 11; Gaz. vol. 214; p. 541.
- Anderson, Fred E., Osage City, Kans. Loading apparatus. No. 1,125,928; Jan. 26; Gaz. vol. 210; p. 1073.
- Anderson, Frederick E., assignor to United States Glass Company, Pittsburgh, Pa. Drinking-glass. No. 1,128,216; Feb. 9; Gaz. vol. 211; p. 584.
- Anderson, Frederick L., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pieced-stay-joining machine. No. 1,148,736; Aug. 3; Gaz. vol. 217; p. 91.
- Anderson, Fritz A., Milton, Wis. Hinge-joint. No. 1,144,090; June 22; Gaz. vol. 215; p. 1151.
- Anderson, George E., Shaw, Kans. Bracket. No. 1,136,752; Apr. 20; Gaz. vol. 213; p. 1029.
- Anderson, George W., et al. (See Hackett, Harry C., assignor.)
- Anderson, Gustaf, Ishpeming, Mich. Accordion. No. 1,139,010; May 11; Gaz. vol. 214; p. 492.
- Anderson, Gustaf A., Waynesboro, Pa. Spring-rigging for vehicles. No. 1,137,720; Apr. 27; Gaz. vol. 213; p. 1406.
- Anderson, Gustaf A., Waynesboro, Pa. Spring-rigging for vehicles. No. 1,137,721; Apr. 27; Gaz. vol. 213; p. 1406.
- Anderson, Gustavus E., Socorro, N. Mex. Top for vehicles. No. 1,163,632; Dec. 14; Gaz. vol. 221; p. 358.
- Anderson, Hans J., assignor of one-half to G. W. Carleton, Lakemills, Wis. Pin-setter. No. 1,144,091; June 22; Gaz. vol. 215; p. 1151.
- Anderson, Hans J., assignor of one-half to G. W. Carleton, Lake Mills, Wis. Pin-setter. No. 1,149,318; Aug. 10; Gaz. vol. 217; p. 400.
- Anderson, Harold B. (See Winton and Anderson.)
- Anderson, Harold B., Cleveland, Ohio. Indicating device for heat treatment of metal. No. 1,124,234; Jan. 5; Gaz. vol. 210; p. 354.
- Anderson, Harold B., Cleveland, Ohio. Signaling device. No. 1,140,492; May 25; Gaz. vol. 214; p. 1085.
- Anderson, Harold B., Lakewood, Ohio. Starting device for internal-combustion engines. No. 1,145,655; July 6; Gaz. vol. 216; p. 238.
- Anderson, Harold B., assignor to The Winton Motor Carriage Company, Cleveland, Ohio. Fastening device. No. 1,127,574; Feb. 9; Gaz. vol. 211; p. 358.
- Anderson, Harold B., and B. B. Brockway, Lakewood, assignors, by mesne assignments, to H. B. Anderson, Cleveland, Ohio. Amusement apparatus or aviator-instructor. No. 1,123,653; Jan. 5; Gaz. vol. 210; p. 156.
- Anderson, Harold C., et al. (See Anderson, Fortesque W., assignor.)
- Anderson, Harry J., Chicago, Ill. Pneumatic musical instrument. No. 1,151,957; Sept. 28; Gaz. vol. 218; p. 1005.
- Anderson, Harry T., Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Door-operating mechanism. No. 1,160,559; Nov. 16; Gaz. vol. 220; p. 841.
- Anderson, Hartwig E., Foley, Minn. Currycomb. No. 1,135,246; Apr. 13; Gaz. vol. 213; p. 456.
- Anderson, Henning. (See Washington and Anderson.)
- Anderson, Herman R. (See Nelson, Charles J., assignor.)
- Anderson, Hiram C., Westchester, N. Y., and J. Gaffney, Roselle, N. J. Music-sheet turner. No. 1,156,199; Oct. 12; Gaz. vol. 219; p. 328.
- Anderson, Homer W., et al. (See Anderson, Fortesque W., assignor.)
- Anderson, Horace M. (See King, Charles T., assignor.)
- Anderson, Isaac, assignor to Lawndale Utility Manufacturing Company, Lawndale, Cal. Gold-saving apparatus. No. 1,125,631; Jan. 19; Gaz. vol. 210; p. 936.
- Anderson, James H., Chicago, Ill. Tire-armor. No. 1,130,562; Mar. 2; Gaz. vol. 212; p. 253.
- Anderson, James W., San Francisco, Cal. Multiplying-camera. No. 1,158,019; Oct. 26; Gaz. vol. 219; p. 1060.
- Anderson, James W., New York, assignor to F. N. Burt Company, Limited, Buffalo, N. Y. Labelling-machine. No. 1,130,129; Mar. 2; Gaz. vol. 212; p. 100.
- Anderson, John, Saratoga Springs, N. Y. Edge-trimmer. No. 1,140,233; May 18; Gaz. vol. 214; p. 957.
- Anderson, John, Chicago, Ill. Automobile-wheel. No. 1,141,516; June 1; Gaz. vol. 215; p. 153.
- Anderson, John, Chicago, Ill. Nail-driving implement. No. 1,152,260; Aug. 31; Gaz. vol. 217; p. 1591.
- Anderson, John, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cover-plate and locking device therefor. No. 1,130,238; Mar. 2; Gaz. vol. 212; p. 137.
- Anderson, John and J. E., Portland, Conn. Wrench. No. 1,123,462; Jan. 5; Gaz. vol. 210; p. 91.
- Anderson, John A., Bridgeport, Conn. Tire-mender tool. No. 1,141,082; May 25; Gaz. vol. 214; p. 1287.
- Anderson, John A., and O. T. Ferngren, Chicago, Ill. Hoisting apparatus. No. 1,149,612; Aug. 10; Gaz. vol. 217; p. 505.
- Anderson, John C., assignor of one-half to A. W. Carlson, Jamestown, N. Y. Sheet-metal door. No. 1,146,470; July 13; Gaz. vol. 216; p. 546.
- Anderson, John E. (See Anderson, John and J. E.)
- Anderson, John F., San Francisco, Cal. Combination-tool. No. 1,125,433; Jan. 19; Gaz. vol. 210; p. 867.
- Anderson, John F., Seattle, Wash. Signal device for automobiles. No. 1,148,137; July 27; Gaz. vol. 216; p. 1177.
- Anderson, John M. (See Dennis, Elbert W., assignor.)
- Anderson, John N. (See Baldwin, Luther C., assignor.)
- Anderson, John O., Cass Lake, Minn. Wick raising or adjusting device for shaving-mugs. No. 1,124,250; Jan. 12; Gaz. vol. 210; p. 407.
- Anderson, John P., assignor of one-third to E. Peterson, Denver, Colo. Arch-support for shoes. No. 1,134,804; Apr. 6; Gaz. vol. 213; p. 263.
- Anderson, John P., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Brake-mast. No. 1,150,883; Nov. 9; Gaz. vol. 220; p. 551.
- Anderson, John R., assignor of one-half to J. Herstedt, Moline, Ill. Collapsible trestle. No. 1,147,668; July 20; Gaz. vol. 216; p. 983.

Alphabetical list of patentees—Continued.

- Anderson, John T., Etowah, N. C. Violin. No. 1,133,782; Mar. 30; Gaz. vol. 212; p. 1553.
- Anderson, John W. (See Davison and Anderson.)
- Anderson, John W., Hamilton, Ontario, Canada, assignor, by mesne assignments, to American Trolley Wheel Company, Inc., Buffalo, N. Y. Trolley-wheel. No. 1,143,880; June 22; Gaz. vol. 215; p. 1077.
- Anderson, Lars. (See Engel and Anderson.)
- Anderson, Louis, Chicago, Ill. Harvesting-machine. No. 1,143,161; June 15; Gaz. vol. 215; p. 803.
- Anderson, Louis, Chicago, Ill. Grain-shocker. No. 1,146,838; July 20; Gaz. vol. 216; p. 691.
- Anderson, Louis, Chicago, Ill. Harvesting-machine. No. 1,156,575; Oct. 12; Gaz. vol. 219; p. 461.
- Anderson, Magnus E., Cokato, Minn. Wrench. No. 1,146,544; July 13; Gaz. vol. 216; p. 571.
- Anderson, Martin E., De Kalb, Ill. Manure-loader. No. 1,148,278; July 27; Gaz. vol. 216; p. 1225.
- Anderson, Martin E., assignor to Jacob Haisch Company, De Kalb, Ill. Wagon-scale. No. 1,137,447; Apr. 27; Gaz. vol. 213; p. 1316.
- Anderson, Martin E., assignor of one-third to himself, one-third to F. G. Anderson, and one-third to A. O. Anderson, De Kalb, Ill. Vehicle-pole. No. 1,138,436; May 4; Gaz. vol. 214; p. 252.
- Anderson, Martin E., assignor of one-third to himself, one-third to F. G. Anderson, and one-third to A. O. Anderson, De Kalb, Ill. Vehicle-pole. No. 1,143,456; July 6; Gaz. vol. 216; p. 169.
- Anderson, Millard F., New York, N. Y. Trimming-machine for rolls. No. 1,139,322; May 11; Gaz. vol. 214; p. 598.
- Anderson, Millard F., New York, N. Y. Banding-machine. No. 1,142,656; June 8; Gaz. vol. 215; p. 587.
- Anderson, Nels B., assignor of four-fifths to E. B. Deming, Bellingham, Wash. Fish-cleaning machine. No. 1,137,448; Apr. 27; Gaz. vol. 213; p. 1317.
- Anderson, Nels B., assignor of four-fifths to E. B. Deming, Bellingham, Wash. Cleaning attachment for fish-dressing machines. No. 1,137,449; Apr. 27; Gaz. vol. 213; p. 1317.
- Anderson, Nils H., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,123,463; Jan. 5; Gaz. vol. 210; p. 91.
- Anderson, Nils H., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,155,634; Oct. 5; Gaz. vol. 219; p. 107.
- Anderson, Nils H., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Platen-shifting mechanism for type-writing machines. No. 1,155,635; Oct. 5; Gaz. vol. 219; p. 107.
- Anderson, Nils H., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,155,636; Oct. 5; Gaz. vol. 219; p. 108.
- Anderson, Nils H., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,164,622; Dec. 21; Gaz. vol. 221; p. 745.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-action for type-writing machines. No. 1,130,130; Mar. 2; Gaz. vol. 212; p. 100.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,141,168; June 1; Gaz. vol. 215; p. 27.
- Anderson, Nils H., assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Key for type-writing machines. No. 1,160,560; Nov. 16; Gaz. vol. 220; p. 842.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,161,181; Nov. 23; Gaz. vol. 220; p. 1108.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,162,434; Nov. 30; Gaz. vol. 220; p. 1591.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,163,966; Dec. 14; Gaz. vol. 221; p. 476.
- Anderson, Nils H., assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Paper-holder for type-writers. No. 1,164,623; Dec. 21; Gaz. vol. 221; p. 745.
- Anderson, Ola, Grand Rapids, Mich. Nut for bench-vises. No. 1,134,937; Apr. 6; Gaz. vol. 213; p. 304.
- Anderson, Olof, assignor, by mesne assignments, to D. E. Town, Chicago, Ill. Draft-rigging. No. 1,134,576; Apr. 6; Gaz. vol. 213; p. 180.
- Anderson, Ortaf, Wausau, Wis. Lubricator. No. 1,140,557; May 25; Gaz. vol. 214; p. 1108.
- Anderson, Oscar, Chelsea, Wis. Locking means for boxes. No. 1,146,230; July 13; Gaz. vol. 216; p. 460.
- Anderson, Oscar, Lancaster, Pa. Pneumatic milking-machine. No. 1,162,844; Dec. 7; Gaz. vol. 221; p. 40.
- Anderson, Oscar, Chicago, and C. Nelson, Chicago Heights, Ill. Tumbler-washer. No. 1,124,239; Jan. 5; Gaz. vol. 210; p. 356.
- Anderson, Oscar H., et al. (See Friberg, John G., assignor.)
- Anderson, Oscar L., Flint, Mich. Vehicle-fender. No. 1,132,546; Mar. 23; Gaz. vol. 212; p. 1068.
- Anderson, Oscar L., and C. H. Skillings, Flint, Mich. Dies. No. 1,147,839; July 27; Gaz. vol. 216; p. 1069.
- Anderson, Owen, Corona, Ala. Lock-nut. No. 1,140,234; May 18; Gaz. vol. 214; p. 957.
- Anderson, Pahr, Cambridge, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me. Pour-out. No. 1,164,775; Dec. 21; Gaz. vol. 221; p. 799.
- Anderson, Philip O., Boise, Idaho. Violin-bow. No. 1,151,918; Aug. 31; Gaz. vol. 217; p. 1473.
- Anderson, Raleigh M., and C. A. Berry, Brookfield, Mo. Railway-rail fastener. No. 1,126,677; Feb. 2; Gaz. vol. 211; p. 3.
- Anderson, Raymond M. (See Bessom and Anderson.)
- Anderson, Richard S., Coban, Guatemala. Gas-engine speed-controller. No. 1,130,563; Mar. 2; Gaz. vol. 212; p. 253.
- Anderson, Robert, Cincinnati, Ohio. Metal-bending machine. No. 1,124,251; Jan. 12; Gaz. vol. 210; p. 407.
- Anderson, Robert A. (See Becker, Charles F., assignor.)
- Anderson, Robert L., Philadelphia, Pa. Game apparatus. No. 1,145,457; July 6; Gaz. vol. 216; p. 170.
- Anderson, Robert T., Pope, Miss. Fine-supporting structure. No. 1,127,844; Feb. 9; Gaz. vol. 211; p. 455.
- Anderson, Rosemond T. (See Sears, Prose, and Anderson.)
- Anderson, Samuel W., Spokane, Wash. Apparatus for the dissolution of lead ores. No. 1,165,742; Dec. 28; Gaz. vol. 221; p. 1177.
- Anderson, Stephen J., Harvey, Ill. Wall for buildings and the like. No. 1,132,995; Mar. 23; Gaz. vol. 212; p. 1236.
- Anderson, Stephen J., Harvey, Ill. Composite block. No. 1,132,996; Mar. 23; Gaz. vol. 212; p. 1236.
- Anderson, Swan, Denver, Colo., assignor of one-half to C. H. Tomlinson, Mansfield, Ohio, and one-eighth to J. Tomlinson, Denver, Colo. Locking mechanism. No. 1,163,612; Dec. 7; Gaz. vol. 221; p. 307.
- Anderson Tool Company, The. (See Forbes, Robert A., assignor.)
- Anderson, Torval J., Rockdale, Wis. Foot-lever. No. 1,157,140; Oct. 19; Gaz. vol. 219; p. 688.
- Anderson, Walter H., assignor to Kino Limited, Wellington, New Zealand. Masking device for cinematograph apparatus. No. 1,127,155; Feb. 2; Gaz. vol. 211; p. 173.
- Anderson, William A., Greenfield, Ohio. Scraper. No. 1,141,917; June 8; Gaz. vol. 215; p. 329.
- Anderson, William B., assignor to Haggard and Marcusson Company, Chicago, Ill. Wire link fabric. No. 1,135,979; Apr. 20; Gaz. vol. 213; p. 755.
- Anderson, William B., assignor to Haggard and Marcusson Company, Chicago, Ill. Metallic fabric. No. 1,156,127; Oct. 12; Gaz. vol. 219; p. 305.
- Anderson, William C. (See Anderson, Cloyd F. and W. C.)
- Anderson, William H., assignor of one-half to O. W. Smith, Clarksburg, W. Va. Nut-lock. No. 1,162,543; Nov. 30; Gaz. vol. 220; p. 1629.
- Anderson, William J., Hyde, England. Display device. No. 1,144,341; June 29; Gaz. vol. 215; p. 1269.
- Anderson, William K., Colorado Springs, Colo. Railway-switch. No. 1,131,025; Mar. 9; Gaz. vol. 212; p. 446.
- Anderson, William K., Colorado Springs, Colo. Rail-joint. No. 1,147,912; July 27; Gaz. vol. 216; p. 1095.
- Anderson, William P., New York, N. Y. Automatic ejector-valve for sumps. No. 1,157,491; Oct. 19; Gaz. vol. 219; p. 813.
- Anderson, William P., assignor to The Ferro Concrete Construction Company, Cincinnati, Ohio. Column-footing. No. 1,137,108; Apr. 27; Gaz. vol. 213; p. 1193.
- Anderson, Williamson D., El Paso, Tex., and E. J. Shearer, Lordsburg, N. Mex. Low-water alarm for boilers. No. 1,123,831; Jan. 5; Gaz. vol. 210; p. 216.
- Anderson, Williamson D., Tucson, Ariz., and E. J. Shearer, Lordsburg, N. Mex. Low-water alarm. No. 1,127,156; Feb. 2; Gaz. vol. 211; p. 174.
- Andersson, Aron, et al. (See Wigellius, Sven G., assignor.)
- Andersson, Carl E., assignor of forty-five one-hundredths to D. W. Cusick, Jr., Duluth, Minn. Automobile sleigh-runner. No. 1,124,384; Jan. 12; Gaz. vol. 210; p. 458.
- Andersson, Carl E., assignor of one-half to L. A. Larsen, Duluth, Minn. Automobile sleigh-runner. No. 1,127,157; Feb. 2; Gaz. vol. 211; p. 174.
- Andersson, Carl E., assignor of forty-five one-hundredths to M. Cusick, Duluth, Minn. Smoke-consumer. No. 1,157,661; Oct. 26; Gaz. vol. 219; p. 935.
- Andersson, Ivan, New York, N. Y. Airship. No. 1,144,578; June 29; Gaz. vol. 215; p. 1347.
- Andrade, Cipriano, Jr. (See Knorr and Andrade.)
- Andrade, Jules, Besancon, France. Systematic association of cylindrical springs. No. 1,151,432; Aug. 24; Gaz. vol. 217; p. 1257.
- Andraud, Berthe A. (born Berthe A. Goudon.) and M. C. Andraud, Paris, France. Mute for violins and other stringed instruments. No. 1,125,929; Jan. 26; Gaz. vol. 210; p. 1074.
- Andraud, Maurice C. (See Andraud, Berthe A. and M. C.)
- Andreas, Frederick, St. Louis, Mo. Gas-burner igniter. No. 1,151,327; Aug. 24; Gaz. vol. 217; p. 1222.

Alphabetical list of patentees—Continued.

- Andreas, Harry G., Sterling, Ill. Eaves-trough hanger. No. 1,160,124; Nov. 16; Gaz. vol. 220; p. 689.
- Andree, William E., Chicago, Ill., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Truck. No. 1,144,957; June 29; Gaz. vol. 215; p. 1478.
- Andrejak, George, and M. Salony, Lilly, Pa. Handgrenade. No. 1,151,433; Aug. 24; Gaz. vol. 217; p. 1257.
- Andren, Fritz L., assignor to S. Karpen & Bros., Chicago, Ill. Folding couch. No. 1,155,779; Oct. 5; Gaz. vol. 219; p. 157.
- Andres, Charles M., assignor of one-half to A. Solomon, Albany, N. Y. Medicated mouthpiece-connector. No. 1,143,097; June 15; Gaz. vol. 215; p. 782.
- Andres, Charles S., Philadelphia, Pa. Synchronizing apparatus. No. 1,140,434; May 25; Gaz. vol. 214; p. 1062.
- Andres, Detlef, Kiel-Gaarden, assignor to Deutsch-Luxemburgische Bergwerks- und Huetten-Aktiengesellschaft, Bochum, Germany. Torch. No. 1,145,875; July 13; Gaz. vol. 216; p. 335.
- Andresen, Herman P., assignor to D. J. Evans, Chicago, Ill. Grab-bucket. No. 1,134,987; Apr. 13; Gaz. vol. 213; p. 368.
- Andrew, Frederick W., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Meter-case. No. 1,158,768; Nov. 2; Gaz. vol. 220; p. 126.
- Andrew, George W. (See Testrup, Adam, Rigby, and Andrew.)
- Andrew, Gordon, C. H. Sloacombe, and H. H. Kingham, Timaru, New Zealand. Automatic oil-feed for motor-cars. No. 1,155,168; Sept. 28; Gaz. vol. 218; p. 1080.
- Andrew, James T., and A. W. Landers, Montgomery, Ala. Subsoil plow or cultivator. No. 1,130,655; Mar. 2; Gaz. vol. 212; p. 284.
- Andrew, William E., Atlantic Highlands, N. J. Spring structure. No. 1,147,134; July 20; Gaz. vol. 216; p. 795.
- Andrew, William K. (See Falk and Andrew.)
- Andrew, William K. (See Waterman, Bradley, and Andrew.)
- Andrews, Adolph P., Minneapolis, Minn. Ash-sifter. No. 1,141,297; June 1; Gaz. vol. 215; p. 75.
- Andrews, Amos. (See Heldeloff, Werner B., assignor.)
- Andrews, Amos, Plainfield, N. J. Irrigating plant. No. 1,142,223; June 8; Gaz. vol. 215; p. 436.
- Andrews, Benjamin, Houston, Tex. Air-lift for elevating liquids. No. 1,144,342; June 29; Gaz. vol. 215; p. 1269.
- Andrews, Bernard R., Newton, Mass., and C. J. Merrill, Portland, Me. Apparatus for drying paper. No. 1,123,464; Jan. 5; Gaz. vol. 210; p. 92.
- Andrews, Charles, Jr., assignor to Andrews Wire & Iron Works, Rockford, Ill. Elevator safety-stop. No. 1,143,017; June 15; Gaz. vol. 215; p. 753.
- Andrews, Edwin C., Adrian, Mich. Gate. No. 1,130,874; Mar. 9; Gaz. vol. 212; p. 393.
- Andrews, Frank M., London, England. Means for drying and heating sand, stone, grit, or other materials. No. 1,147,203; July 20; Gaz. vol. 216; p. 821.
- Andrews, George C. (See Raymond, Harry T., assignor.)
- Andrews, George C., Minneapolis, Minn. Thermostat. No. 1,131,651; Mar. 16; Gaz. vol. 212; p. 696.
- Andrews, George C., and L. V. Barnes, Minneapolis, Minn.; said Barnes assignor to said Andrews. Weight-motor. No. 1,164,323; Dec. 14; Gaz. vol. 221; p. 601.
- Andrews, Harold C., London, England. Dark slide for photographic cameras. No. 1,141,750; June 1; Gaz. vol. 215; p. 234.
- Andrews, Herbert B., assignor to American Stamping Co., Battle Creek, Mich. Locking device for grease-cups. No. 1,144,280; June 22; Gaz. vol. 215; p. 1219.
- Andrews, Herbert B., assignor to H. B. Sherman Manufacturing Company, Battle Creek, Mich. Making terminals. No. 1,144,281; June 22; Gaz. vol. 215; p. 1219.
- Andrews, James G., Cleveland, Ohio. Bobbin. No. 1,136,305; Apr. 20; Gaz. vol. 213; p. 869.
- Andrews, Jasper. (See Robinson and Andrews.)
- Andrews, John W. R., Leominster, Mass. Chair. No. 1,143,566; June 15; Gaz. vol. 215; p. 945.
- Andrews, Oliver B., Chattanooga, Tenn. Knockdown crate. No. 1,154,831; Sept. 28; Gaz. vol. 218; p. 964.
- Andrews, Paul I., Keenebunk, Me. Cylindrical can. No. 1,166,168; Dec. 28; Gaz. vol. 221; p. 1327.
- Andrews, Peter L. (See Ray, Miles E., assignor.)
- Andrews, Robert D., Brookline, Mass. Aerial vehicle. No. 1,145,960; July 13; Gaz. vol. 216; p. 363.
- Andrews, Roger W., Lombard, Ill., assignor to Erie Pump & Equipment Company, Erie, Pa. Feeding water to boilers. No. 1,148,483; July 27; Gaz. vol. 216; p. 1296.
- Andrews, Walter. (See Brila and Andrews.)
- Andrews, William E., assignor of one-half to W. A. Stellers, Bellaire, Ohio. Electrical welding apparatus. No. 1,141,517; June 1; Gaz. vol. 215; p. 154.
- Andrews, William G. (See Larabee, Frederick D., assignor.)
- Andrews, William G., Chicago, Ill., assignor to himself, and F. D. Larabee, Hutchinson, Kans. Treating flour. No. 1,136,501; Apr. 20; Gaz. vol. 213; p. 940.
- Andrews, William H. (See Carroll and Andrews.)
- Andrews Wire & Iron Works. (See Andrews, Charles, Jr., assignor.)
- Andrick, Wallace P., Jamaica, N. Y., assignor to General Acoustic Company. Telephone set. No. 1,150,009; Aug. 17; Gaz. vol. 217; p. 710.
- Andrick, Wallace P., assignor to General Acoustic Company, Jamaica, N. Y. Dictograph intercommunicating telephone system. No. 1,160,125; Nov. 16; Gaz. vol. 220; p. 689.
- Andros, Randall B., Portland, assignor of forty-five one-hundredths to R. B. Rideout, South Berwick, Me. Sheet-music turner. No. 1,149,885; Aug. 10; Gaz. vol. 217; p. 603.
- Andrus, Charles H., Harrisburg, Pa. Sliding door for pressed-steel freight-cars. No. 1,149,319; Aug. 10; Gaz. vol. 217; p. 400.
- Andrus, Charles H., Harrisburg, Pa. Door for freight-cars. No. 1,152,261; Aug. 31; Gaz. vol. 217; p. 1591.
- Andrus, Waddell P., Springfield, Mo. Coin-controlled device. No. 1,150,923; Aug. 24; Gaz. vol. 217; p. 1086.
- Anfinson, Lars A., Clermont, Iowa. Rail-tie. No. 1,136,859; Apr. 20; Gaz. vol. 213; p. 1066.
- Angel, John. (See Greider, Amos C., assignor.)
- Angell, Charles W. (See Willower, Angell, and Gallaspie.)
- Angell, Chester M., Santa Barbara, Cal., assignor to The Van Briggie Tile and Pottery Company, Colorado Springs, Colo. Electric heater. No. 1,126,935; Feb. 2; Gaz. vol. 211; p. 95.
- Angell, Edward C., assignor, by mesne assignments, to Single Service Bottle Corporation of New York, New York, N. Y. Container or receptacle. No. 1,160,561; Nov. 16; Gaz. vol. 220; p. 842.
- Angell, Edward C., assignor to Single Service Bottle Corporation of New York, New York, N. Y. Apparatus for making receptacles or containers. No. 1,160,816; Nov. 16; Gaz. vol. 220; p. 934.
- Angell, William T., Chicago, Ill. Pump-valve. No. 1,159,347; Nov. 9; Gaz. vol. 220; p. 357.
- Angelo Miceli Unsinkable Vessel Company. (See Miceli, Angelo, assignor.)
- Anger, Gustav, Lowestoft, England. Machine for oiling tin or other plates. No. 1,150,092; Aug. 17; Gaz. vol. 217; p. 779.
- Anger, John E., Preston, England. Reversible seat for tram-cars and other purposes. No. 1,140,097; May 18; Gaz. vol. 214; p. 911.
- Anger, John E., Preston, England. Reversible seat for tram-cars and other purposes. No. 1,140,342; May 18; Gaz. vol. 214; p. 995.
- Anger, John E., Preston, England. Slack-adjuster. No. 1,151,328; Aug. 24; Gaz. vol. 217; p. 1223.
- Anger, John E., Preston, England. Suspension device for brake-blocks. No. 1,164,447; Dec. 14; Gaz. vol. 221; p. 645.
- Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Guard-rail. No. 1,145,738; July 6; Gaz. vol. 216; p. 268.
- Angeski, Peter A., Lilly, Pa. Fruit-picker. No. 1,158,158; Oct. 26; Gaz. vol. 219; p. 1109.
- Angeski, Peter A., Lilly, Pa. Spring-wheel. No. 1,163,195; Dec. 7; Gaz. vol. 221; p. 162.
- Anglada Company, The. (See Anglada, Joseph A., assignor.)
- Anglada, Joseph A., New York, N. Y., assignor to The Anglada Company, Detroit, Mich. Remountable rim. No. 1,146,122; July 13; Gaz. vol. 216; p. 421.
- Angle, Alfred T., Dayton, Ohio. Rail-brace. No. 1,136,753; Apr. 20; Gaz. vol. 213; p. 1030.
- Angle, Edward H., New London, Conn. Orthodontia appliance. No. 1,142,790; June 15; Gaz. vol. 215; p. 673.
- Angle, Edward H., New London, Conn. Dental pliers. No. 1,163,196; Dec. 7; Gaz. vol. 221; p. 162.
- Angle, Edward H., New London, Conn. Orthodontia appliance. No. 1,163,197; Dec. 7; Gaz. vol. 221; p. 162.
- Anglemyer, Willard A., Indianapolis, Ind. Metal post and wire-fastening means. No. 1,129,621; Feb. 23; Gaz. vol. 211; p. 1161.
- Anglo American Aerator Co. (See Howes, Wright E., assignor.)
- Anglo-American Mill Co., The. (See Little, Lucius F., assignor.)
- Anglo-American Patent Bottle Company, The. (See Prall, Claude C., assignor.)
- Anglo-Continental Fertilizers Syndicate Limited. (See Irwin, Thomas K., assignor.)
- Angstead, Raymond D., assignor of one-half to W. H. Angstead, Fairfield, Iowa. Bag-holder. No. 1,159,152; Nov. 2; Gaz. vol. 220; p. 257.
- Angstead, William H. (See Angstead, Raymond D., assignor.)
- Angster, Clarence E., Wausa, Nebr. Post-puller. No. 1,153,747; Sept. 14; Gaz. vol. 218; p. 528.
- Anhaltzer, Henry, Pittsburgh, Pa. Pipe-cleaning mixture or compound. No. 1,129,056; Feb. 23; Gaz. vol. 211; p. 962.
- Anheuser, Ernst, Racine, Wis. Detachable tool-handle. No. 1,147,204; July 20; Gaz. vol. 216; p. 821.
- Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp. No. 1,131,652; Mar. 16; Gaz. vol. 212; p. 696.
- Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp-socket. No. 1,153,591; Sept. 14; Gaz. vol. 218; p. 475.

Alphabetical list of patentees—Continued.

- Anklam, William F., assignor to C. M. Hall Lamp Company, Detroit, Mich. Electrical fitting. No. 1,161,582; Nov. 23; Gaz. vol. 220; p. 1250.
- Ann Arbor Machine Company, The. (See Langford, Theron S., assignor.)
- Annable, George A. (See Sparks, Walter, assignor.)
- Annable Pneumatic Spring Company. (See Annable, Warren W., assignor.)
- Annable, Warren W., Grand Rapids, Mich. Steering-gear for automobiles. No. 1,158,360; Oct. 26; Gaz. vol. 219; p. 1179.
- Annable, Warren W., Grand Rapids, assignor to Annable Pneumatic Spring Company, Detroit, Mich. Pneumatic spring for vehicles. No. 1,130,656; Mar. 2; Gaz. vol. 212; p. 284.
- Annard, Alexander H., Buenos Aires, Argentina. Electromagnetic recording apparatus for telegraph-circuits. No. 1,150,326; Aug. 17; Gaz. vol. 217; p. 822.
- Annis, Burleigh S. (See Orr and Annis.)
- Annis, Daniel J., Plainfield, assignor of two-ninths to T. C. Davis, five-ninths to T. Wensel, Joliet, and two-ninths to L. Coleman, Chicago, Ill. Carpenter's combination-tool. No. 1,138,722; May 11; Gaz. vol. 214; p. 389.
- Annisson, Richard H., London, England. Driving-hood for piles. No. 1,140,558; May 25; Gaz. vol. 214; p. 1108.
- Anschütz-Kaempfe, Hermann, Neumühlen, near Kiel, Germany. Artificial horizon. No. 1,141,099; June 1; Gaz. vol. 215; p. 4.
- Anso Company. (See Binder, Frank A., assignor.)
- Anso Company. (See Bornmann, Carl, assignor.)
- Anso Company. (See Nasief, Benjamin J., assignor.)
- Anso Company. (See Nasief and Dorsey, assignors.)
- Ansley, Frank, Spokane, Wash. Grinding-mill. No. 1,147,067; July 20; Gaz. vol. 216; p. 772.
- Ansley, Frank, Spokane, Wash. Grinding-mill. No. 1,147,068; July 20; Gaz. vol. 216; p. 772.
- Ansley, H. W., *et al.* (See Gamble, George R., assignor.)
- Ansonia O & C Company, The. (See Fassett, Wallace F., assignor.)
- Anspach, Francis G., Deerfield, Mich., assignor of one-fourth to V. B. Cannon, Whittier, Cal. Controllable headlight for automobiles. No. 1,145,961; July 13; Gaz. vol. 216; p. 364.
- Anspach, Jacob H., Cleveland, Ohio. Gas-furnace. No. 1,132,296; Mar. 16; Gaz. vol. 212; p. 932.
- Ansted, Edward W. (See Russell, Edwin L., assignor.)
- Anstey, Harry L., Orster Bay, N. Y. Internal-combustion engine. No. 1,124,581; Jan. 12; Gaz. vol. 210; p. 527.
- Anstie, Josiah. (See Smith, Edward F., assignor.)
- Ant. Jurgens Vereenigde Fabrieken. (See Erslev, Knud, assignor.)
- Ant. Jurgens Vereenigde Fabrieken. (See Naumann, Hermann G. R., assignor.)
- Anthell, Victor, Springfield, Ill. Beet pulping and topping machine. No. 1,148,492; Aug. 3; Gaz. vol. 217; p. 3.
- Anthony, Abel C., San Francisco, Cal. Toy gun. No. 1,138,529; May 4; Gaz. vol. 214; p. 282.
- Anthony, Harold G., assignor of forty-five one-hundredths to A. Q. Reynolds, Chicago, Ill. Truck. No. 1,129,775; Feb. 23; Gaz. vol. 211; p. 1209.
- Anthony, Harold G., assignor of forty-five one-hundredths to A. Q. Reynolds, Chicago, Ill. Truck. No. 1,129,776; Feb. 23; Gaz. vol. 211; p. 1210.
- Anthony, Joseph G., Detroit, Mich. Indicator. No. 1,151,152; Aug. 24; Gaz. vol. 217; p. 1165.
- Anthony, Marcus O., assignor to A. Kimball Company, New York, N. Y. Tag or ticket seal. No. 1,132,897; Mar. 23; Gaz. vol. 212; p. 1108.
- Anthony, Marcus O., assignor to A. Kimball Company, New York, N. Y. Tag-sewing machine. No. 1,143,929; June 22; Gaz. vol. 215; p. 1093.
- Anthony, Marcus O., Englewood, N. J., assignor to A. Kimball Company. Pin-ticket. No. 1,140,935; May 25; Gaz. vol. 214; p. 1239.
- Anthony, Marcus O., Englewood, N. J., assignor to A. Kimball Company, New York, N. Y. Pin-ticket cartridge and container. No. 1,152,471; Sept. 7; Gaz. vol. 218; p. 32.
- Anthony, Marcus O., Englewood, N. J., assignor to A. Kimball Company, New York, N. Y. Printing-machine. No. 1,156,966; Oct. 19; Gaz. vol. 219; p. 627.
- Anthony, Marcus O., Englewood, N. J., assignor to A. Kimball Company, New York, N. Y. Wire-cutting machine. No. 1,163,121; Dec. 7; Gaz. vol. 221; p. 134.
- Anthony, Noel L., Cranston, R. I. Electric annunciator or code-signaling device. No. 1,131,813; Mar. 16; Gaz. vol. 212; p. 756.
- Anthony, Noel L., Cranston, R. I. Truck or carrier for cylindrical objects. No. 1,153,476; Sept. 14; Gaz. vol. 218; p. 432.
- Anthony, Stanley, Boston, Mass., assignor to Rapid Equipment Company, Chicago, Ill. Adjustable index. No. 1,123,215; Jan. 5; Gaz. vol. 210; p. 4.
- Anthony, William R., Memphis, Tenn. Machine for truing faced wheels or pulleys. No. 1,148,563; Aug. 3; Gaz. vol. 217; p. 29.
- Anti-Frost Stove Company, The. (See Mayer, William E., assignor.)
- Antisdale, Edwin S., Chicago, Ill. Attachment for talking-machines. No. 1,149,804; Aug. 10; Gaz. vol. 217; p. 574.
- Antley, Viola V. (See Fairchild, Joseph A., assignor.)
- Antoine, Alfred D., assignor to C. C. Travis, Chicago, Ill. Machine for making light-mantles. No. 1,131,893; Mar. 16; Gaz. vol. 212; p. 783.
- Antoine, Alfred D., and C. C. Travis, assignors to Advance Machine Co., Chicago, Ill. Vending-machine. No. 1,145,458; July 6; Gaz. vol. 216; p. 170.
- Antoine, Aloise and E. Passaic, N. J. Sugar-bowl. No. 1,123,974; Jan. 5; Gaz. vol. 210; p. 263.
- Antoine, Ernest. (See Antoine, Aloise and E.)
- Antoni, Victor, Chicago, Ill. Collar. No. 1,147,691; July 20; Gaz. vol. 216; p. 991.
- Antonovich, Emile P. (See Dreifuss, Leopold, assignor.)
- Antonuccio, Frank, Oakland, Cal. Burner. No. 1,130,132; Mar. 2; Gaz. vol. 212; p. 101.
- Antrobus, Charles, U. S. Navy. Dividers and center-punch. No. 1,158,020; Oct. 26; Gaz. vol. 219; p. 1060.
- Anttila, Frank L., and A. I. Lilius, Lowell, Mass. Paper and twine cutter. No. 1,134,500; Apr. 6; Gaz. vol. 213; p. 152.
- Anway, Harry B., Chicago, Ill. Paper-gripper for job-presses. No. 1,163,305; Dec. 7; Gaz. vol. 221; p. 200.
- Apfelbaum, Frederick A., New York, N. Y. Lantern-slide. No. 1,132,423; Mar. 16; Gaz. vol. 212; p. 976.
- Apfeld, Bernard V., Spokane, Wash. Wrench. No. 1,126,678; Feb. 2; Gaz. vol. 211; p. 3.
- Apfeld, Bernard V., Spokane, Wash. Spice-cabinet. No. 1,162,203; Nov. 30; Gaz. vol. 220; p. 1513.
- Apgar, John T., New York, N. Y. Artificial leg. No. 1,144,681; June 29; Gaz. vol. 215; p. 1383.
- Apgar, John T., New York, N. Y. Forming artificial-leg sockets. No. 1,153,532; Sept. 14; Gaz. vol. 218; p. 454.
- Appel, Daniel, East Cleveland, Ohio. Wrapping-tube. No. 1,133,253; Mar. 30; Gaz. vol. 212; p. 1363.
- Appelman, Erastus W., Clermont, assignor, by mesue assignments, to American Drainage Company, Dubuque, Iowa. Draining land. No. 1,129,324; Feb. 23; Gaz. vol. 211; p. 1055.
- Appelqvist, Gunnar S. A., and E. O. E. Tydén, Stockholm, Sweden. Separating the constituents of rocks. No. 1,143,797; June 22; Gaz. vol. 215; p. 1048.
- Apple Electric Company, The. (See Apple, Vincent G., assignor.)
- Apple Electric Company, The. (See Apple and Miller, assignors.)
- Apple, Vincent G., Dayton, Ohio. Switch. No. 1,155,121; Sept. 28; Gaz. vol. 218; p. 1064.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Dynamo-electric machine. No. 1,127,158; Feb. 2; Gaz. vol. 211; p. 174.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Power-transmission gearing. No. 1,129,777; Feb. 23; Gaz. vol. 211; p. 1210.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Electrical equipment for internal-combustion engines. No. 1,132,297; Mar. 16; Gaz. vol. 212; p. 932.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Switch. No. 1,132,997; Mar. 23; Gaz. vol. 212; p. 1236.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Controller for lighting-circuits of dynamo-battery equipments. No. 1,133,783; Mar. 30; Gaz. vol. 212; p. 1553.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Transmission-gearing. No. 1,133,784; Mar. 30; Gaz. vol. 212; p. 1553.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Electrical equipment for internal-combustion engines. No. 1,142,791; June 15; Gaz. vol. 215; p. 674.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Gearing. No. 1,144,092; June 22; Gaz. vol. 215; p. 1152.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Centrifugal speed-governor. No. 1,145,656; July 6; Gaz. vol. 216; p. 238.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Gearing. No. 1,148,884; Aug. 3; Gaz. vol. 217; p. 142.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Power generating and transmitting system. No. 1,153,667; Sept. 14; Gaz. vol. 218; p. 499.
- Apple, Vincent G., assignor to The Apple Electric Company, Dayton, Ohio. Clutch mechanism. No. 1,156,576; Oct. 12; Gaz. vol. 219; p. 461.
- Apple, Vincent G., Dayton, Ohio, and W. M. S. Miller, Milwaukee, Wis.; said Miller assignor to The Apple Electric Company, Dayton, Ohio. Switch. No. 1,158,955; Nov. 2; Gaz. vol. 220; p. 191.
- Apple, Vincent G., and G. B. Sayre, assignors to The Apple Electric Company, Dayton, Ohio. Electrical indicating and regulating apparatus. No. 1,158,954; Nov. 2; Gaz. vol. 220; p. 190.
- Apple, William M., San Antonio, Tex. Parcel-carrier for bicycles. No. 1,134,577; Apr. 6; Gaz. vol. 213; p. 180.

Alphabetical list of patentees—Continued.

- Applebaugh, Eugene M., and G. M. Keller, Danville, Pa. Post or strut for brake-beams. No. 1,152,262; Aug. 31; Gaz. vol. 217; p. 1591.
- Appleby Automatic Sign Company. (See Appleby, Bert, assignor.)
- Appleby, Bert, assignor to Appleby Automatic Sign Company, Milwaukee, Wis. Means for displaying cards. No. 1,136,919; Apr. 27; Gaz. vol. 213; p. 1124.
- Appleby, Edmund G. (See Bentley, George H., assignor.)
- Appleby, John F., Davenport, Iowa, assignor of one-half to P. D. Middlekauff, Chicago, Ill. Grain-harvester. No. 1,141,298; June 1; Gaz. vol. 215; p. 75.
- Appleby, John F., Peoria, Ill., assignor of one-half to P. D. Middlekauff, Chicago, Ill. Grain-harvester. No. 1,141,299; June 1; Gaz. vol. 215; p. 76.
- Applegate, Addison, Liberty, N. Y. Stuccolike siding for building purposes. No. 1,138,069; May 4; Gaz. vol. 214; p. 123.
- Applegate, Alva, Toledo, Iowa. Sawing-machine. No. 1,159,153; Nov. 2; Gaz. vol. 220; p. 257.
- Applegate, Daniel, Lacarne, Ohio. Gear mechanism. No. 1,158,882; Nov. 2; Gaz. vol. 220; p. 167.
- Applegate, James W., Western Springs, assignor to The Gunthorp-Warren Printing Company, Chicago, Ill. Indicator for type-casting machines. No. 1,160,359; Nov. 16; Gaz. vol. 220; p. 770.
- Applegate, Lee R., assignor to Utility Manufacturing Company, Seattle, Wash. Pump. No. 1,150,803; Aug. 17; Gaz. vol. 217; p. 987.
- Applegate, Miles B., Sugarloaf, Pa. Rail fastener and tie. No. 1,163,879; Dec. 14; Gaz. vol. 221; p. 446.
- Appleman, William H., Belmont, N. Y. Steering-gear for motor-vehicles. No. 1,131,590; Mar. 9; Gaz. vol. 212; p. 640.
- Appleman, William H., Belmont, N. Y. Device for steering vehicles. No. 1,135,247; Apr. 13; Gaz. vol. 213; p. 456.
- Appleman, William H., Belmont, N. Y. Device for steering vehicles. No. 1,150,161; Aug. 17; Gaz. vol. 217; p. 764.
- Appleman, William H., Pittsburgh, Pa. Steering-gear for motor-vehicles. No. 1,159,348; Nov. 9; Gaz. vol. 220; p. 358.
- Appleton, Jeanne W., New York, N. Y. Container. No. 1,145,286; July 6; Gaz. vol. 216; p. 108.
- Appleton, Lola, New York, N. Y. Fumigating device. No. 1,164,624; Dec. 21; Gaz. vol. 221; p. 745.
- Appleton Machine Company. (See Saecker, Frank E., assignor.)
- Appleton, William M., Weston-super-Mare, England. Two-stroke-cycle internal-combustion engine. No. 1,151,434; Aug. 24; Gaz. vol. 217; p. 1258.
- Appleyard, Arthur E., Ashland, Wis. Electric incandescent lamp. No. 1,156,967; Oct. 19; Gaz. vol. 219; p. 628.
- Appugliese, Louis, assignor to Mersereau Metal Bed Company, Jersey City, N. J. Catch device for crib-gates and the like. No. 1,143,881; June 22; Gaz. vol. 215; p. 1077.
- Araki, Shuzoburo, Fromberg, Mont. Butter-cutter. No. 1,144,282; June 22; Gaz. vol. 215; p. 1219.
- Aranar Company, The. (See Roberts, Fred T., assignor.)
- Arant, John E., Manning, S. C. Paper-fastener. No. 1,146,231; July 13; Gaz. vol. 216; p. 460.
- Arbanasin, Edward A., Truckee, Cal. Can-opener. No. 1,164,776; Dec. 21; Gaz. vol. 221; p. 799.
- Arbeiter, Traugott, assignor to J. S. Ewert, Dolton, S. D. Guard. No. 1,132,147; Mar. 16; Gaz. vol. 212; p. 876.
- Arbetter Felling Machine Company. (See Arbetter, Wolf, assignor.)
- Arbetter Felling Machine Company. (See Hayes, Thomas J., assignor.)
- Arbetter, Wolf, Roxbury, assignor to Arbetter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 1,140,235; May 18; Gaz. vol. 214; p. 957.
- Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Blindstitch-felling machine. No. 1,152,871; Sept. 7; Gaz. vol. 218; p. 181.
- Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Two-needle blindstitch sewing-machine. No. 1,156,128; Oct. 12; Gaz. vol. 219; p. 306.
- Arbogast, Wilson. (See Sheer, Henry M., assignor.)
- Arbuckle Brothers. (See Grimm and Cocks, assignors.)
- Arca Manufacturing Company. (See Morgan, Charles, assignor.)
- Arca Manufacturing Company. (See Tscherning, Henry, assignor.)
- Arca, Joseph G., New York, N. Y. Resilient wheel. No. 1,147,591; July 20; Gaz. vol. 216; p. 955.
- Archambault, Arthur J., Chicago, Ill. Plumber's furnace. No. 1,130,133; Mar. 2; Gaz. vol. 212; p. 101.
- Archer, Vernon C., Colony, Kans. Silo. No. 1,125,249; Jan. 19; Gaz. vol. 210; p. 801.
- Archer, William E. (See Shoemaker and Archer.)
- Archibald, Frederick, Virginia, Minn. Music-leaf turner. No. 1,125,250; Jan. 19; Gaz. vol. 210; p. 801.
- Archibald, Frederick, Virginia, Minn. Plug-opening closure. No. 1,129,535; Feb. 23; Gaz. vol. 211; p. 1130.
- Arco, Georg von, Berlin, Germany, and R. H. Rendahl, Lillienholm, near Stockholm, Sweden. Self-inductive means for electrical oscillatory circuits. No. 1,131,187; Mar. 9; Gaz. vol. 212; p. 500.
- Arco, Georg von, Berlin, Germany, and R. H. Rendahl, Lillienholm, near Stockholm, Sweden. Self-inductive means for electrical oscillatory circuits. No. 1,148,279; July 27; Gaz. vol. 216; p. 1226.
- Arco, Georg von, and A. Meissner, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. System for signaling by wireless telegraphy under the quenched-spark method. No. 1,162,830; Dec. 7; Gaz. vol. 221; p. 35.
- Arcus, Charles R., Poplar, London, assignor of one-half to O. P. Macfarlane, London, England. Pressure regulating or reducing valve. No. 1,132,424; Mar. 16; Gaz. vol. 212; p. 977.
- Arden, Thomas R. (See Heyman and Arden.)
- Ardron, Fay A. (See Farrell and Ardron.)
- Arduser, Fred L., Parkston, S. D. Hoisting-machine. No. 1,131,103; Mar. 9; Gaz. vol. 212; p. 472.
- Arehart, George J., Maroa, Ill. Lantern or lamp support. No. 1,149,320; Aug. 10; Gaz. vol. 217; p. 400.
- Arena, Felice, assignor of one-fourth to O. Scotto, one-fourth to G. Carpaneto, and one-fourth to R. Maggio, New York, N. Y. Telephonic-telegraphic communication system for railway-trains. No. 1,145,287; July 6; Gaz. vol. 216; p. 108.
- Arendt, Morton, assignor to Maimin Brothers and Company, New York, N. Y. Cloth-cutting machine. No. 1,125,434; Jan. 19; Gaz. vol. 210; p. 867.
- Arendt, Morton, assignor to H. L. J. Siemund, New York, N. Y. Depositing repair metal across an alternating-current arc. No. 1,146,988; July 20; Gaz. vol. 216; p. 745.
- Arendt, Morton, assignor to H. L. J. Siemund, New York, N. Y. Electric-arc welding. No. 1,146,989; July 20; Gaz. vol. 216; p. 746.
- Arens, August, assignor to The American Hardware Corporation, New Britain, Conn. Lock-bolt. No. 1,140,343; May 18; Gaz. vol. 214; p. 995.
- Arey, Fred C., Oak Park, Ill. Expanded-sheet-metal lath. No. 1,166,107; Dec. 28; Gaz. vol. 221; p. 1302.
- Arey, Fred C., Oak Park, assignor to Northwestern Expanded Metal Company, Chicago, Ill. Ribbed expanded-metal lathing. No. 1,164,160; Dec. 14; Gaz. vol. 221; p. 544.
- Arey, Samuel E., et al. (See Grady, Frank W., assignor.)
- Arsten, George J., Denver, Colo. Telephone-receiver attachment. No. 1,123,654; Jan. 5; Gaz. vol. 210; p. 156.
- Argall, Frank L., San Jose, Cal. Artificial tooth. No. 1,149,016; Aug. 3; Gaz. vol. 217; p. 189.
- Arial, Charles W., Colerain, Mass. Trolley. No. 1,157,608; Oct. 19; Gaz. vol. 219; p. 850.
- Arion Manufacturing Company. (See Cole, Otto B., assignor.)
- Arita, Moto, Boston, Mass. Knife. No. 1,133,213; Mar. 23; Gaz. vol. 212; p. 1313.
- Arizona Automatic-Air Association. (See Canion, William G., assignor.)
- Arkell & Smiths. (See Genest, Homer A., assignor.)
- Arkon Carbon Co., The. (See Matthes, Julius H., assignor.)
- Arlidge, Thomas J., Winchester, Ky. Combined rail-brace and anchor tie-plate. No. 1,155,868; Oct. 5; Gaz. vol. 219; p. 190.
- Arlidter, Herman, Frodsham, England. Treating pulp for making paper and like materials. No. 1,153,883; Sept. 21; Gaz. vol. 218; p. 611.
- Arlitz, Oscar C., Grantwood, N. J., assignor, by mesne assignments, to Lovell-McConnell Manufacturing Company, Mechanical horn. (Reissue.) No. 13,909; May 4; Gaz. vol. 214; p. 311.
- Arlitz, Oscar C., New York, N. Y., assignor to Lovell-McConnell Manufacturing Company, Mechanical horn. No. 1,148,945; Aug. 3; Gaz. vol. 217; p. 163.
- Armacki, Stanislaw, Natrona, Pa. Boat-propelling mechanism. No. 1,139,471; May 18; Gaz. vol. 214; p. 689.
- Armantage, John, and F. Roehrig, Oakland, assignors of one-half to said Roehrig and one-half to W. G. Pearson, Alameda, Cal. Illuminating-sign. No. 1,139,395; May 11; Gaz. vol. 214; p. 626.
- Armbruster, George, Fairbury, Ill. Portable mold for fence-posts. No. 1,131,653; Mar. 16; Gaz. vol. 212; p. 696.
- Armbruster, Philip M., Gig Harbor, Wash. Automatic window-lock. No. 1,161,583; Nov. 23; Gaz. vol. 220; p. 1251.
- Armentraut, Richard B., Eden, Tex. Plow. No. 1,131,026; Mar. 9; Gaz. vol. 212; p. 446.
- Armitage, George H. (See Armitage, Joseph B. and G. H.)
- Armitage, Joseph B., assignor to Narragansett Machine Company, Pawtucket, R. I. Vaulting horse-buck. No. 1,128,832; Feb. 16; Gaz. vol. 211; p. 847.
- Armitage, Joseph B., Pawtucket, and G. H. Armitage, Woonsocket, assignors to Consolidated Car Fender Company, Pawtucket, R. I. Fender for automobile-trucks. No. 1,128,833; Feb. 16; Gaz. vol. 211; p. 847.
- Armor, William R., and L. A. Young, Denver, Colo. Receiver-supporting arm. No. 1,162,012; Nov. 30; Gaz. vol. 220; p. 1446.
- Armour Fertilizer Works. (See Hershman, Paul R., assignor.)
- Armspear Manufacturing Company. (See Spear, Furman D., assignor.)

Alphabetical list of patentees—Continued.

- Armstrong, Andrew C., Sawyer's Valley, Western Australia, Australia. Combination adjustable hygienic desk and seat. No. 1,142,657; June 8; Gaz. vol. 215; p. 588.
- Armstrong, Carter C., Cincinnati, Ohio. Valve for downspouts and the like. No. 1,134,717; Apr. 6; Gaz. vol. 213; p. 232.
- Armstrong, Charles D., assignor to Armstrong Cork Company, Pittsburgh, Pa. Floor-covering. No. 1,134,578; Apr. 6; Gaz. vol. 213; p. 181.
- Armstrong, Charles G. (See Southworth and Armstrong.)
- Armstrong Cork Company. (See Armstrong, Charles D., assignor.)
- Armstrong Cork Company. (See Busch, Herman F., assignor.)
- Armstrong Cork Company. (See Frenkel, Gustav, assignor.)
- Armstrong Cork Company. (See Humphreys, Charles F., assignor.)
- Armstrong Cork Company. (See Paschke, Herbert, assignor.)
- Armstrong Cork and Insulation Company. (See Grunzweig, Max, assignor.)
- Armstrong, Cudellas, Hobart, Okla. Steam-separator. No. 1,139,150; May 11; Gaz. vol. 214; p. 542.
- Armstrong, Earl W., Pittsford, N. Y. Shovel. No. 1,162,845; Dec. 7; Gaz. vol. 221; p. 40.
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Axle-joint. No. 1,162,204; Nov. 30; Gaz. vol. 220; p. 1513.
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Portable engine. No. 1,163,122; Dec. 7; Gaz. vol. 221; p. 135.
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Power-shovel. No. 1,163,633; Dec. 14; Gaz. vol. 221; p. 358.
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Power-shovel. No. 1,163,634; Dec. 14; Gaz. vol. 221; p. 359.
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Steam-engine. No. 1,164,972; Dec. 21; Gaz. vol. 221; p. 868.
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Engine and clutch control. No. 1,165,831; Dec. 28; Gaz. vol. 221; p. 1206.
- Armstrong, Francis H., Brownwood, Tex. Recording and duplicating machine. No. 1,147,592; July 20; Gaz. vol. 216; p. 956.
- Armstrong, Frank H., Vulcan, Mich. Tripping device for shovel-dipper doors. No. 1,154,157; Sept. 21; Gaz. vol. 218; p. 704.
- Armstrong, George F., Hamilton, Ontario, Canada. Heater for incubators. No. 1,130,052; Mar. 2; Gaz. vol. 212; p. 73.
- Armstrong, Harry Y., Springfield, Mass. Rail-testing device. No. 1,130,657; Mar. 2; Gaz. vol. 212; p. 285.
- Armstrong, Henry A., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. First elevator for typographical machines. No. 1,129,941; Mar. 2; Gaz. vol. 212; p. 37.
- Armstrong, Henry A., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Escapement mechanism for line-composing machines. No. 1,152,688; Sept. 7; Gaz. vol. 218; p. 113.
- Armstrong, Henry A., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Elevator-lift for machines of the linotype class. No. 1,156,027; Oct. 5; Gaz. vol. 219; p. 243.
- Armstrong, Henry A., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Manual shift for mold-disk slides. No. 1,161,584; Nov. 23; Gaz. vol. 220; p. 1251.
- Armstrong, John. (See Bennett and Armstrong.)
- Armstrong, John, London, England. Apparatus for washing gases. No. 1,143,162; June 15; Gaz. vol. 215; p. 804.
- Armstrong, John J., Honolulu, Hawaii. Continuous-discharge centrifugal machine. No. 1,153,367; Sept. 14; Gaz. vol. 218; p. 393.
- Armstrong, John J., assignor of one-half to A. G. Hawes, Honolulu, Hawaii. Sugar product and producing the same. No. 1,154,557; Sept. 21; Gaz. vol. 218; p. 841.
- Armstrong, John J., Sr., assignor of one-half to E. M. Ammann, Weimar, Tex. Adjustable hoe. No. 1,147,913; July 27; Gaz. vol. 216; p. 1095.
- Armstrong, Joseph A., and E. Olsen, Ephraim, Utah. Sled-brake. No. 1,164,905; Dec. 21; Gaz. vol. 221; p. 844.
- Armstrong, Louis E., Fort Dodge, Iowa. Vitrified block. No. 1,163,880; Dec. 14; Gaz. vol. 221; p. 446.
- Armstrong, Ralph W., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Regulating system. No. 1,163,306; Dec. 7; Gaz. vol. 221; p. 200.
- Armstrong, Richard. (See Gandy, Harry P., assignor.)
- Armstrong, Stanley L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Centrifugal switching device. No. 1,150,010; Aug. 17; Gaz. vol. 217; p. 710.
- Armstrong, Ulysses S., New Kensington, Pa. Galvanizing pipe. No. 1,159,820; Nov. 9; Gaz. vol. 220; p. 529.
- Armstrong, Walter J. (See Liggett and Armstrong.)
- Armstrong, Walter J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Belt-idler. No. 1,156,386; Oct. 12; Gaz. vol. 219; p. 395.
- Armstrong, William C., Springfield, Ohio. Furnace-grate. No. 1,124,252; Jan. 12; Gaz. vol. 210; p. 407.
- Arndt, Franklin E., assignor to The Galion Iron Works and Manufacturing Company, Gallion, Ohio. Cut-off gate and spout for discharge-chutes. No. 1,135,980; Apr. 20; Gaz. vol. 213; p. 753.
- Arndt, Franklin E., assignor to The Galion Iron Works and Manufacturing Company, Gallion, Ohio. Hoisting and dumping bucket. No. 1,152,472; Sept. 7; Gaz. vol. 218; p. 31.
- Arndt, Franklin E., assignor to The Galion Iron Works and Manufacturing Company, Gallion, Ohio. Hoisting and dumping mechanism. No. 1,154,474; Sept. 21; Gaz. vol. 218; p. 813.
- Arndt, Franklin E., assignor to The Galion Iron Works and Manufacturing Company, Gallion, Ohio. Dumping-bucket and hoisting mechanism therefor. No. 1,166,035; Dec. 28; Gaz. vol. 221; p. 1277.
- Arndt, Franklin E., assignor to The Galion Iron Works and Manufacturing Company, Gallion, Ohio. Steering-gear for road-machines. No. 1,166,036; Dec. 28; Gaz. vol. 221; p. 1277.
- Arndt, Franklin E., assignor to D. C. Boyd, Gallion, Ohio. Burial-vault. No. 1,144,579; June 29; Gaz. vol. 215; p. 1347.
- Arndt, Franklin E., assignor to D. C. Boyd, Gallion, Ohio. Burial-vault. No. 1,149,488; Aug. 10; Gaz. vol. 217; p. 458.
- Arndt, George E., Chicago, Ill. Stove. No. 1,127,575; Feb. 9; Gaz. vol. 211; p. 353.
- Arndt, John P., Neenah, Wis. Automatic circuit-breaker. No. 1,164,906; Dec. 21; Gaz. vol. 221; p. 844.
- Arndt, Richard L. (See Porter, Joseph W., assignor.)
- Arndt, William E., assignor to Capitol Brass Works, Detroit, Mich. Valve. No. 1,138,613; May 11; Gaz. vol. 214; p. 349.
- Arnemann, Heinrich W., Hamburg, Germany. Barrel-cleaning apparatus. No. 1,125,930; Jan. 26; Gaz. vol. 210; p. 1074.
- Arnemann, Wilhelm, Hamburg, Germany. Apparatus for removing and applying coats of pitch and the like to casks and the like. No. 1,128,278; Feb. 16; Gaz. vol. 211; p. 657.
- Arneson, Ove H., St. Paul, Minn. Clamp. No. 1,137,109; Apr. 27; Gaz. vol. 213; p. 1193.
- Arnest, Bernard P., Denver, Colo. Paint-brush holder. No. 1,125,931; Jan. 26; Gaz. vol. 210; p. 1075.
- Arnett, Homer H., Osceola, Ohio. Land-roller. No. 1,131,654; Mar. 16; Gaz. vol. 212; p. 697.
- Arney, Albert L., Pettibone, N. D. Harrow. No. 1,162,013; Nov. 30; Gaz. vol. 220; p. 1446.
- Arnholm, Charles A., assignor to St. Albans Foundry and Implement Company, St. Albans, Vt. Engine-rack. No. 1,131,027; Mar. 9; Gaz. vol. 212; p. 447.
- Arnold, Arthur W., Minneapolis, Minn. Automatic damper. No. 1,132,214; Mar. 23; Gaz. vol. 212; p. 1313.
- Arnold, Charles J., and W. P. Rutherford, Louisville, Ky. Automatic smoke-preventer. No. 1,166,307; Dec. 28; Gaz. vol. 221; p. 1378.
- Arnold, Daniel F. (See Kliebenstein and Arnold.)
- Arnold, Don Juan, Omaha, Nebr. Resilient vehicle-tire. No. 1,139,323; May 11; Gaz. vol. 214; p. 598.
- Arnold, Edwin E., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Brake-support for vehicle-axles. No. 1,162,737; Dec. 7; Gaz. vol. 220; p. 3.
- Arnold Electric Company. (See Arnold, George A., assignor.)
- Arnold, Erich, Berlin, Germany. Hoe. No. 1,139,472; May 18; Gaz. vol. 214; p. 689.
- Arnold, Frank P., Carbondale, Pa., and G. F. Wedeman, Washington, D. C. Amalgamator. No. 1,139,324; May 11; Gaz. vol. 214; p. 599.
- Arnold, George A., Middletown, Conn., assignor to Arnold Electric Company. Locking-valve-operating device. No. 1,150,162; Aug. 17; Gaz. vol. 217; p. 765.
- Arnold, Gilbert J., Eastbourne, England. Wheel with detachable rim. No. 1,147,477; July 20; Gaz. vol. 216; p. 916.
- Arnold, Hans, Charlottenburg, assignor to Dr. O. Knöfeler & Co., Ploetzensee, near Berlin, Germany. Manufacture of fireproof utensils from refractory oxides. No. 1,157,662; Oct. 26; Gaz. vol. 219; p. 935.
- Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Electric-wave amplifier. No. 1,128,279; Feb. 16; Gaz. vol. 211; p. 657.
- Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Thermionic detector. No. 1,128,280; Feb. 16; Gaz. vol. 211; p. 658.
- Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Gaseous repeater in circuits of low impedance. No. 1,129,942; Mar. 2; Gaz. vol. 212; p. 38.
- Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Gaseous repeater in circuits of low impedance. No. 1,129,943; Mar. 2; Gaz. vol. 212; p. 38.

Alphabetical list of patentees—Continued.

- Arnold, Harry W., Brandon, Manitoba, assignor of fifty-one one-hundredths to B. M. Green, Welland, Ontario, Canada. Rifle-carrier for mounted troops. No. 1,163,307; Dec. 7; Gaz. vol. 221; p. 201.
- Arnold, Henry R., Council Bluffs, Iowa. Thread-receptacle. No. 1,148,209; July 27; Gaz. vol. 216; p. 1201.
- Arnold, Howard, and T. A. Austin, Atlanta, Ga. Spacer for gin-saws. No. 1,150,728; Aug. 17; Gaz. vol. 217; p. 961.
- Arnold, Isaac H., Animas, N. Mex. Washing-machine. No. 1,154,832; Sept. 28; Gaz. vol. 218; p. 964.
- Arnold, Matthew, San Jose, Cal. Amalgamating-machine. No. 1,127,845; Feb. 9; Gaz. vol. 211; p. 455.
- Arnold, Matthew, assignor of one-half to L. E. Haven. Butte, Mont. Excavating-machine. No. 1,164,448; Dec. 14; Gaz. vol. 221; p. 645.
- Arnold, Price, Fort Worth, Tex. Coffin. No. 1,143,018; June 15; Gaz. vol. 215; p. 754.
- Arnold, Wiley M. (See Corwin and Arnold.)
- Arnold, William B., North Abington, Mass. Boot and shoe. No. 1,143,481; June 15; Gaz. vol. 215; p. 916.
- Arnold, William E., Omaha, Nebr. Lawn-mower sharpener. No. 1,123,975; Jan. 5; Gaz. vol. 210; p. 264.
- Arnold, William E., Waterville, Kans. Hay-stacker. No. 1,128,569; Feb. 16; Gaz. vol. 211; p. 756.
- Arnold, William H., Morning Sun, Iowa. Locking device for ladders. No. 1,125,251; Jan. 19; Gaz. vol. 210; p. 802.
- Arnold, Willis F., *et al.* (See Moses, Mose, assignor.)
- Arnett, Robert F., Upper Montclair, N. J., assignor to I. L. Myers, New York, N. Y. Closure for paper packages. No. 1,128,266; Feb. 9; Gaz. vol. 211; p. 601.
- Arnow, Isaac F., St. Marys, Ga. Shovel. No. 1,136,754; Apr. 20; Gaz. vol. 213; p. 1030.
- Arnzen, Asbjorn, and F. Rasmussen, Brooklyn, N. Y. Shaft-coupling. No. 1,163,967; Dec. 14; Gaz. vol. 221; p. 476.
- Aron Elektricitätszählerfabrik G. m. b. H., H. (See Schoder and Sembach, assignors.)
- Aron Elektricitätszählerfabrik G. m. b. H., H. (See Huth, Gustav, assignor.)
- Aron, Leonard J., assignor to X. L. Electric Company Limited, London, England. Electric-clock system. No. 1,144,885; June 29; Gaz. vol. 215; p. 1455.
- Aronson, Frank, Chicago, Ill. Shelving. No. 1,138,586; May 4; Gaz. vol. 214; p. 301.
- Aronson, Louis v., Newark, N. J. Cigar-tip cutter. No. 1,127,576; Feb. 9; Gaz. vol. 211; p. 359.
- Aronson, Louis V., Newark, N. J. Igniter. No. 1,181,655; Mar. 16; Gaz. vol. 212; p. 697.
- Aronson, Louis V., Newark, N. J. Talking-toy mechanism. No. 1,140,647; May 25; Gaz. vol. 214; p. 1138.
- Aronson, Louis V., Newark, N. J. Talking-toy mechanism. No. 1,140,648; May 25; Gaz. vol. 214; p. 1138.
- Aronson, Louis V., Newark, N. J. Talking-toy mechanism. No. 1,140,649; May 25; Gaz. vol. 214; p. 1138.
- Aronson, Louis V., Newark, N. J. Talking-toy mechanism. No. 1,140,650; May 25; Gaz. vol. 214; p. 1139.
- Aronson, Louis V., Newark, N. J. Doll. No. 1,140,651; May 25; Gaz. vol. 214; p. 1139.
- Aronson, Saul. (See Wilkinson and Aronson.)
- Aronson, Saul, New York, assignor to E. E. Wilkinson, Brooklyn, N. Y. Clock winding and setting mechanism. No. 1,153,533; Sept. 14; Gaz. vol. 218; p. 454.
- Aronson, Simon, Brookline, Mass. Artificial feather. No. 1,152,137; Aug. 31; Gaz. vol. 217; p. 1548.
- Aroza Company, The. (See MacQuesten, William D., assignor.)
- Arquebourg, Emile H., assignor to Société J. Grouvelle, H. Arquebourg & Cie., Paris, France. Carbureter. No. 1,166,308; Dec. 28; Gaz. vol. 221; p. 1378.
- Arrighi, Pietro, San Jose, Cal. Sack-sewing machine. No. 1,153,009; Sept. 7; Gaz. vol. 218; p. 230.
- Arrighi, Pietro, San Jose, Cal. Ear forming and tying mechanism for sack-sewing machines. No. 1,162,014; Nov. 30; Gaz. vol. 220; p. 1447.
- Arrington, A. H. (See Brogdon, Joel E., assignor.)
- Arrow Bottlers Company. (See Roberts, George W., assignor.)
- Arrow Electric Company, The. (See Gates, Frederic P., assignor.)
- Arrow Electric Company, The. (See Gates and Gauthier, assignors.)
- Arrow Electric Company, The. (See Gauthier, George A., assignor.)
- Arrow Electric Company, The. (See Girling, James G., assignor.)
- Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
- Arrow Electric Company, The. (See Pratt, Willis H., assignor.)
- Arsem, William C., Schenectady, N. Y., assignor to General Electric Company. Electric cut-out. No. 1,157,919; Oct. 26; Gaz. vol. 219; p. 1025.
- Art Metal Construction Company. (See Ekedahl, Erik, assignor.)
- Art Metal Construction Company. (See Ellison, Edward H., assignor.)
- Art Metal Construction Company. (See Stuck, Everett, assignor.)
- Art Photo Company. (See Hoskins, Ernest J., assignor.)
- Art Stove Company, The. (See Coda, Christopher F., assignor.)
- Arter, William, assignor of one-half to B. E. Delle, Worcester, Mass. Valve mechanism. No. 1,126,679; Feb. 2; Gaz. vol. 211; p. 3.
- Arter, William, and B. E. Delle, Worcester, Mass. Valve mechanism. No. 1,129,944; Mar. 2; Gaz. vol. 212; p. 38.
- Arthur Colton Co. (See Scott and Schiemer, assignors.)
- Arthur D. Little, Incorporated. (See Whitaker and Bates, assignors.)
- Arthur, James W., Warren, Ohio. Vulcanizing apparatus. No. 1,157,751; Oct. 26; Gaz. vol. 219; p. 966.
- Arthur, James W., Warren, Ohio. Vulcanizing apparatus. No. 1,164,054; Dec. 14; Gaz. vol. 221; p. 508.
- Arthur, John E., Lane, and R. L. Arthur, Le Roy; said R. L. Arthur assignor to E. C. Herschberger, Arthur, Ill. Hoof-clipper. No. 1,145,459; July 6; Gaz. vol. 216; p. 170.
- Arthur, Joseph B., Hutchinson, Kans. Demountable rim. No. 1,139,151; May 11; Gaz. vol. 214; p. 542.
- Arthur, Roy L. (See Arthur, John E. and R. L.)
- Arthur, Roy L., Lane, assignor to E. C. Herschberger, Arthur, Ill. Hoof-clipper. No. 1,136,991; Apr. 27; Gaz. vol. 213; p. 1149.
- Arthur, Russell, assignor of one-third to E. P. Cummings, Erwin, W. Va. Poling device for railway-cars. No. 1,157,492; Oct. 19; Gaz. vol. 219; p. 814.
- Arthur S. Hoyt Company, The. (See Hoyt, Arthur S., assignor.)
- Arthurs, Biddle. (See Truxall, Ephraim, assignor.)
- Artibee, Wilfred J., Chazy, N. Y. Wheel for windmills. No. 1,123,465; Jan. 5; Gaz. vol. 210; p. 92.
- Artista Piano Player Company. (See Bennett, Robert J., assignor.)
- Artista Piano Player Company. (See Steinhilber, Adolf A., assignor.)
- Artista Piano Player Company. (See Turney, Eugene T., assignor.)
- Artz, Adolphe G., assignor to Kelp Products Company, San Francisco, Cal. Extraction of mineral salts and organic constituents of kelp. No. 1,136,390; Apr. 20; Gaz. vol. 213; p. 900.
- Artz, John D., Dayton, Ohio. Apparatus for forming sheet-metal articles. No. 1,164,698; Dec. 21; Gaz. vol. 221; p. 772.
- Asadoorian, Hovsep H., Troy, N. Y. Thread cutter and holder for buttonhole-sewing machines. No. 1,133,605; Mar. 30; Gaz. vol. 212; p. 1489.
- Asbestos Brake Company, The. (See Bonner, William T., assignor.)
- Asbestos Shingle Company. (See Norton, Charles L., assignor.)
- Asbury, Frank, *et al.* (See Gore, Frederick W., assignor.)
- Asbury, Harry F., *et al.* (See Gore, Frederick W., assignor.)
- Asch, Andrew J., New York, N. Y. Backing for artificial teeth. No. 1,140,936; May 25; Gaz. vol. 214; p. 1239.
- Aschbacher, Edward, Wilmette, Ill. Rolling-pin. No. 1,164,777; Dec. 21; Gaz. vol. 221; p. 800.
- Aschinger, Edward J., Oshkosh, Wis. Bench-clamp and planing-vise. No. 1,152,365; Aug. 31; Gaz. vol. 217; p. 1629.
- Asef, Waldemar, Philadelphia, Pa. Making pure zinc oxid and recovering substances from waste and like liquors. No. 1,135,981; Apr. 20; Gaz. vol. 213; p. 756.
- Asef, Waldemar, Philadelphia, Pa. Making pure zinc oxid. No. 1,165,743; Dec. 28; Gaz. vol. 221; p. 1177.
- Asendorf, Cord, Jr., Savannah, Ga. Cigar-cutter. No. 1,154,158; Sept. 21; Gaz. vol. 218; p. 704.
- Aseptic Service Company. (See Morse, Benjamin E., assignor.)
- Aseptic Service Company. (See Rees, Warren C., assignor.)
- Ash, Harry L., Somerset, Pa. Ratchet-wrench. No. 1,127,717; Feb. 9; Gaz. vol. 211; p. 408.
- Ashbaugh, Nowal. (See Riddle and Ashbaugh.)
- Ashburn, John H., Ararat, N. C. Tobacco curing and yellowing pan. No. 1,134,805; Apr. 6; Gaz. vol. 213; p. 263.
- Ashby, Holdon M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Primer and sealer. No. 1,164,324; Dec. 14; Gaz. vol. 221; p. 601.
- Ashby, John G. (See Pardington and Ashby.)
- Ashcroft, Edgar A., London, England. Apparatus for the electrolytic manufacture of alloys of light metals with heavier metals and the continuous treatment of such alloys for obtaining final products. No. 1,159,154; Nov. 2; Gaz. vol. 220; p. 257.
- Ashcroft, Edgar A., London, England. Electrolytic production of sodium alloys. No. 1,161,585; Nov. 23; Gaz. vol. 220; p. 1251.
- Ashcroft, Edgar A., London, England. Manufacture of metallic amides, cyanamides, and cyanids. No. 1,163,498; Dec. 7; Gaz. vol. 221; p. 266.
- Ashcroft Manufacturing Company, The. (See Crocker, Ernest B., assignor.)
- Aselman, Hervey B., and J. S. Johnson, Fargo, N. D. Air-valve and indicating mechanism. No. 1,140,937; May 25; Gaz. vol. 214; p. 1239.

Alphabetical list of patentees—Continued.

- Ashby, John P., Worcester, Mass. Apparatus for operating alarms. No. 1,129,057; Feb. 23; Gaz. vol. 211; p. 962.
- Ashland Manufacturing Company, The. (See Willour, Le Roy, assignor.)
- Ashley, Charles G., Chicago, Ill., assignor, by mesne assignments, to General Engineering and Construction Company, Limited. Rapid printing-telegraph system. No. 1,130,688; Mar. 2; Gaz. vol. 212; p. 297.
- Ashley, Charles G., Chicago, Ill., assignor to General Engineering and Construction Company, Limited, Toronto, Canada. Printing-telegraph alphabet. No. 1,135,344; Apr. 13; Gaz. vol. 213; p. 490.
- Ashley, Charles G., Chicago, Ill., assignor to General Engineering and Construction Company, Limited, Toronto, Canada. Printing-telegraph receiver. No. 1,138,830; May 11; Gaz. vol. 214; p. 428.
- Ashley, Charles G., Chicago, Ill., assignor to General Engineering and Construction Company, Limited, Toronto, Canada. Printing-telegraph system and alphabet. No. 1,141,751; June 1; Gaz. vol. 215; p. 234.
- Ashley, Charles G., Chicago, Ill., assignor to General Engineering and Construction Company, Limited, Toronto, Canada. Printing-telegraph system and alphabet. No. 1,145,460; July 6; Gaz. vol. 216; p. 171.
- Ashley, Charles G., Chicago, Ill., assignor to General Engineering and Construction Company, Limited, Toronto, Canada. Printing-telegraph receiver. No. 1,161,105; Nov. 23; Gaz. vol. 220; p. 1079.
- Ashley, Charles G., Chicago, Ill., assignor to General Engineering and Construction Company, Limited, Toronto, Canada. Printing-telegraph system. No. 1,164,907; Dec. 21; Gaz. vol. 221; p. 845.
- Ashley, Charles G., and J. B. Crippen, Chicago, Ill., assignors, by mesne assignments, to General Engineering and Construction Company, Limited. Printing-telegraph system and alphabet. No. 1,126,339; Jan. 26; Gaz. vol. 210; p. 1224.
- Ashley, Douglas V. (See Greene, Beatrice H., assignor.)
- Ashley, Edward L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Suspender-loop. No. 1,138,587; May 4; Gaz. vol. 214; p. 301.
- Ashley, Frank M., New York, N. Y. Fountain-pen. No. 1,145,657; July 6; Gaz. vol. 216; p. 239.
- Ashley, Leonard W., assignor of one-half to E. M. McVicker, Milwaukee, Wis. Trolley-wheel mount. No. 1,141,518; June 1; Gaz. vol. 215; p. 154.
- Ashley, Robert W., and F. Oberkirch, New York, N. Y., assignors to General Rim Company. Wire wheel. No. 1,135,424; Apr. 13; Gaz. vol. 213; p. 518.
- Ashley, Sanford H. (See Stroud, Charles M., assignor.)
- Ashman, William H. (See Birkbeck and Ashman.)
- Asborn, Inshriish, New Ulm, Tex. Ventilator. No. 1,162,205; Nov. 30; Gaz. vol. 220; p. 1513.
- Ashtabula Bow Socket Company, The. (See Lewis, Fred K., assignor.)
- Ashton, Edwin P., Detroit, Mich. Yieldable thrust-bearing for worm-shafts. No. 1,152,689; Sept. 7; Gaz. vol. 218; p. 114.
- Ashton, John H., Providence, R. I. Water-heater. No. 1,132,757; Mar. 23; Gaz. vol. 212; p. 1148.
- Ashton, John T., Willimantic, Conn. Crow-hick. No. 1,125,632; Jan. 19; Gaz. vol. 210; p. 936.
- Ashton, Orrell, Swampscott, Mass. Sewing-machine. No. 1,144,958; June 29; Gaz. vol. 215; p. 1478.
- Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,137,564; Apr. 27; Gaz. vol. 213; p. 1355.
- Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tacking mechanism. No. 1,137,565; Apr. 27; Gaz. vol. 213; p. 1356.
- Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,137,566; Apr. 27; Gaz. vol. 213; p. 1356.
- Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Relasting-machine. No. 1,150,804; Aug. 17; Gaz. vol. 217; p. 987.
- Asbton, William E., and A. M. Curtis, assignors to J. O. Fowler, New York, N. Y. Wireless-telegraph detector. No. 1,145,658; July 6; Gaz. vol. 216; p. 239.
- Ashworth, Albert P. (See Ashworth, Dannie G. and A. P.)
- Ashworth, Asa, Salamanca, N. Y. Bit for valve-grinders. No. 1,154,159; Sept. 21; Gaz. vol. 218; p. 704.
- Ashworth, Asa, Salamanca, N. Y. Valve-grinder. No. 1,158,021; Oct. 26; Gaz. vol. 219; p. 1060.
- Ashworth, Dannie G. and A. P., West Brookville, N. Y. Hammock and hammock attachment. No. 1,156,200; Oct. 12; Gaz. vol. 219; p. 328.
- Ashworth, Fred, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shuttle tension device. No. 1,128,651; Feb. 16; Gaz. vol. 211; p. 783.
- Askenasy, Paul, Karlsruhe, assignor to Chemisch Metallurgische Industrie-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Producing white zirconium oxide free of iron. No. 1,158,769; Nov. 2; Gaz. vol. 220; p. 126.
- Askin, John, *et al.* (See Fishburne, Edward W., assignor.)
- Asmus, Henry J., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Manufacturing shoes. No. 1,160,967; Nov. 16; Gaz. vol. 220; p. 987.
- Asmus, Henry J., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of footwear. No. 1,160,968; Nov. 16; Gaz. vol. 220; p. 987.
- Asmussen, Otto, Brooklyn, N. Y. Combined automatic burglar and fire alarm system. No. 1,145,224; July 6; Gaz. vol. 216; p. 86.
- Asmussen, Otto, Brooklyn, N. Y. Automatic selecting multiparty-telephone system. No. 1,145,659; July 6; Gaz. vol. 216; p. 239.
- Asmussen, Otto, Brooklyn, N. Y. Combined automatic burglar and fire alarm system and telephone service. No. 1,150,239; Aug. 17; Gaz. vol. 217; p. 792.
- Asor, Henry. (See Molina and Asor.)
- Aspinall, Frank B., Blackheath, London, England. Production of motive power. No. 1,128,834; Feb. 16; Gaz. vol. 211; p. 848.
- Aspinwall, George E., and J. Terway, Beaulieu, Minn. Device for screening grain. No. 1,133,421; Mar. 30; Gaz. vol. 212; p. 1422.
- Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Manufacturing Company. Relief-valve for liquid-sprayers. No. 1,133,785; Mar. 30; Gaz. vol. 212; p. 1554.
- Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Manufacturing Company. Liquid-sprayer. No. 1,162,435; Nov. 30; Gaz. vol. 220; p. 1591.
- Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Manufacturing Company. Pump. No. 1,162,436; Nov. 30; Gaz. vol. 220; p. 1592.
- Aspinwall, Louis M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrode-cooling system. No. 1,159,884; Nov. 9; Gaz. vol. 220; p. 551.
- Aspinwall Manufacturing Company. (See Aspinwall, Lewis A., assignor.)
- Asplund, Vio A., Glenburn, N. D. Attachment for steering-wheels. No. 1,128,088; Feb. 9; Gaz. vol. 211; p. 540.
- Asprooth, Axel H. (See Benson and Asprooth.)
- Asquith, Leonard A., and J. Greene, Central Falls, R. I. Drinking device. No. 1,146,383; July 13; Gaz. vol. 216; p. 512.
- Asquith, Stead A., Waterloo, Iowa. Speedometer. No. 1,164,908; Dec. 21; Gaz. vol. 221; p. 845.
- Associated Automatic Sprinkler Co. (See Rowley, Arthur C., assignor.)
- Associated Engineers Company. (See Withers, Francis P., assignor.)
- Associated Manufacturers Company. (See Menges, Theodore C., assignor.)
- Astley, John W. (See Mordey, Astley, and Saunderson.)
- Aston, Albert A., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Rand-guide for rand-attaching machines. No. 1,123,213; Jan. 5; Gaz. vol. 210; p. 3.
- Aston, George, assignor of three-fourths to J. Beasley, New York, N. Y. Lock. No. 1,125,791; Jan. 19; Gaz. vol. 210; p. 995.
- Astrom, John, assignor to Fort Wayne Engineering and Manufacturing Company, Fort Wayne, Ind. Differential pump. No. 1,128,089; Feb. 9; Gaz. vol. 211; p. 541.
- Atchison, Herbert E., assignor to M. E. Atchison, Lincoln, Nebr. Clamp for angle-iron posts and the like. No. 1,125,436; Jan. 19; Gaz. vol. 210; p. 868.
- Atchison, M. E. (See Atchison, Herbert E., assignor.)
- Atlay, David, *et al.* (See Sawyer, Harry B., assignor.)
- Atherton, Frederick L., Paterson, N. J. Spooling-machine. No. 1,163,499; Dec. 7; Gaz. vol. 221; p. 267.
- Atkin, Clay B. (See Bohner, William H., assignor.)
- Atkins, Daniel W., Marion, Ind. Heater. No. 1,152,263; Aug. 31; Gaz. vol. 217; p. 1591.
- Atkins, David H., assignor to Atkins, Kroll & Co., San Francisco, Cal. Tube-mill. No. 1,125,921; Jan. 26; Gaz. vol. 210; p. 1071.
- Atkins, Edgar H., Richmond, Va., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,126,340; Jan. 26; Gaz. vol. 210; p. 1224.
- Atkins, Evan A. (See Field, Howarth, and Atkins.)
- Atkins, Howard D., Philadelphia, Pa. Game apparatus. No. 1,148,737; Aug. 3; Gaz. vol. 217; p. 92.
- Atkins, Joe S., *et al.* (See Moses, Moses, assignor.)
- Atkins, Kroll & Co. (See Atkins, David H., assignor.)
- Atkins, William, assignor of three-fourths to E. N. Ross and W. A. Tice, Auburn, N. Y. Carriage-coupling. No. 1,140,863; May 25; Gaz. vol. 214; p. 1212.
- Atkins, William H., assignor, by mesne assignments, to C. H. Bowman, Madison, Wis. Lasting device. No. 1,143,798; June 22; Gaz. vol. 215; p. 1048.
- Atkinson, Abraham N., *et al.* (See McBride, Thomas W., assignor.)
- Atkinson, Christopher D., Ukiah, Cal. Cultivator. No. 1,162,544; Nov. 30; Gaz. vol. 220; p. 1629.
- Atkinson, Edward E., and C. F. Overmyer, Norfolk, Va. Vehicle shaft-support. No. 1,125,036; Jan. 19; Gaz. vol. 210; p. 723.
- Atkinson, Edward M., Portland, Oreg. Folding structure. No. 1,145,825; July 6; Gaz. vol. 216; p. 298.

Alphabetical list of patentees—Continued.

- Atkinson, Elijah B., Denver, Colo. Shipping-tag. No. 1,142,294; June 8; Gaz. vol. 215; p. 461.
- Atkinson, Fred S., Brookline, Mass. Secondary clock-movement. No. 1,141,752; June 1; Gaz. vol. 215; p. 234.
- Atkinson, George W., Denver, Colo. Pneumatic wheel. No. 1,141,918; June 8; Gaz. vol. 215; p. 329.
- Atkinson, George W., Denver, Colo. Headlight control. No. 1,144,886; June 29; Gaz. vol. 215; p. 1455.
- Atkinson, Herbert S., Weehawken, N. J., assignor to The Hayward Company, New York, N. Y. Bucket. No. 1,128,398; Feb. 16; Gaz. vol. 211; p. 696.
- Atkinson, Herbert S., East Orange, N. J., assignor to The Hayward Company, New York, N. Y. Tooth-plate for excavating apparatus. No. 1,128,399; Feb. 16; Gaz. vol. 211; p. 696.
- Atkinson, Herbert S., East Orange, N. J., assignor to The Hayward Company, New York, N. Y. Bucket. No. 1,138,614; May 11; Gaz. vol. 214; p. 349.
- Atkinson, Mentzer & Company. (See Crowdus, Walter A., assignor.)
- Atkinson, Ray E., Fowler, Ind. Adjustable supporting-bracket for mirrors and reading-glasses. No. 1,130,689; Mar. 2; Gaz. vol. 212; p. 297.
- Atkinson, Robert O., Eden Vale, assignor of one-half to W. L. Smith, Ferndale, Cal. Baling-press. No. 1,126,680; Feb. 2; Gaz. vol. 211; p. 4.
- Atlanta Utility Works. (See Nash, Walter D., assignor.)
- Atlantic Can Company. (See Ranney, Darwin D., assignor.)
- Atlantic National Bank. (See Wilson and Clafin, assignors.)
- Atlantic Refining Company, The. (See Nichols, Howard M., assignor.)
- Atlantic Refining Company, The. (See Van Dyke and Irish, assignors.)
- Atlantic Refining Company, The. (See Welsh, Michael J., assignor.)
- Atlas Concrete Pipe Machinery Company. (See Tunison, Arthur C., assignor.)
- Atlas Educational Film Co. (See Holmes, Oscar J., assignor.)
- Atlas Mercantile Company, The. (See Jorgensen, Olav E., assignor.)
- Atlas Powder Company. (See Fletcher, William E., assignor.)
- Atlas Press Co. (See White, Henry P., assignor.)
- Atlas Tack Company. (See Italiche, Andrew, assignor.)
- Atlas Tack Company. (See Roach, Joseph C., assignor.)
- Atlee, Joshua W., Riverton, N. J. Lavatory. No. 1,129,325; Feb. 23; Gaz. vol. 211; p. 1055.
- Atlee, Joshua W., Riverton, N. J. Sight for firearms. No. 1,129,326; Feb. 23; Gaz. vol. 211; p. 1056.
- Atterbury, Grosvenor, New York, N. Y. Apparatus for casting blocks or shapes of cementitious, viscous, or other hardening materials. No. 1,123,832; Jan. 5; Gaz. vol. 210; p. 216.
- Atterbury, Grosvenor, New York, N. Y. Artificial stone. No. 1,140,559; May 25; Gaz. vol. 214; p. 1108.
- Atterbury, Grosvenor, New York, N. Y. Artificial stone. No. 1,163,060; Dec. 7; Gaz. vol. 221; p. 113.
- Atterbury, Grosvenor, New York, N. Y. Apparatus for casting blocks. No. 1,163,198; Dec. 7; Gaz. vol. 221; p. 162.
- Atterbury, Thomas W., and P. W. Matthews, Dansville, N. Y., assignors of five-twelfths to said Matthews, five-twelfths to F. E. Bedale, Scottsdale, Pa., and one-sixth to J. F. Brandenburg, Mahwah, N. J. Furnace. No. 1,160,360; Nov. 16; Gaz. vol. 220; p. 770.
- Attridge, Oliver H., *et al.* (See Wade, Samuel L., assignor.)
- Attridge, Oliver H., assignor of one-fourth to W. N. Cox, one-fourth to C. W. Reale, and one-fourth to F. G. Bennett, Montgomery, Ala. Wheel. No. 1,127,377; Feb. 2; Gaz. vol. 211; p. 248.
- Atuesta, Mark A., Schenectady, N. Y., assignor to General Electric Company. Black finish. No. 1,157,283; Oct. 19; Gaz. vol. 219; p. 741.
- Atwater, Arthur S., and D. F. Selzer, Cleveland, Ohio. Battery-plate. No. 1,144,628; June 29; Gaz. vol. 215; p. 1365.
- Atwater, Lucius C. (See Van Winkle, George H., assignor.)
- Atwood, Albert A. (See Myers, Hubert A., assignor.)
- Atwood Automobile Company, The. (See Miller, Frank B., assignor.)
- Atwood, Clarence B., assignor to National Sewing Machine Company, Belvidere, Ill. Tension device for sewing-machines. No. 1,129,945; Mar. 2; Gaz. vol. 212; p. 38.
- Atwood, George F., Wakefield, Mass., assignor of one-half to J. B. Carrigan, Poughkeepsie, N. Y. Suspenders. No. 1,125,792; Jan. 19; Gaz. vol. 210; p. 995.
- Atwood, George F., Newark, N. J., assignor to Westinghouse Lamp Company. Machine for mounting incandescent-lamp filaments. No. 1,145,660; July 6; Gaz. vol. 216; p. 240.
- Atwood, George M., Colfax, Cal. Combined step-ladder and ironing-board. No. 1,145,396; July 6; Gaz. vol. 216; p. 146.
- Atwood, Harry N., and D. D. Sternbergh, Reading, Pa. Equalizing drive mechanism for airships. No. 1,148,280; July 27; Gaz. vol. 216; p. 1226.
- Atwood, James T., Rockford, Ill. Suction relief-valve. No. 1,156,872; Oct. 19; Gaz. vol. 219; p. 593.
- Atwood, John B., Pittsburgh, Pa. Rail-fastener. No. 1,155,698; Oct. 5; Gaz. vol. 219; p. 130.
- Atwood, Leonard, Farmington, Me. Automatic train-controlling device. No. 1,139,948; May 18; Gaz. vol. 214; p. 857.
- Atwood, Leonard, Farmington, Me., assignor of one-half to A. H. Gillard, Englewood, N. J. Two-cycle internal-combustion engine. No. 1,130,658; Mar. 2; Gaz. vol. 212; p. 285.
- Atwood, William, Longmont, Colo. Beet-harvester. No. 1,157,920; Oct. 26; Gaz. vol. 219; p. 1025.
- Atwood, William S., Montreal, Quebec, Canada. Brake-step. No. 1,154,160; Sept. 21; Gaz. vol. 218; p. 705.
- Atwood, William S., assignor to Canadian Car & Foundry Company, Limited, Montreal, Quebec, Canada. Reinforced truck-bolster end member. No. 1,123,214; Jan. 5; Gaz. vol. 210; p. 3.
- Atwood, William S., assignor to Canadian Car & Foundry Company, Limited, Montreal, Quebec, Canada. Ore-car. No. 1,123,655; Jan. 5; Gaz. vol. 210; p. 157.
- Atwood, William S., assignor to The Canadian Car & Foundry Company, Limited, Montreal, Quebec, Canada. Bolster. No. 1,123,656; Jan. 5; Gaz. vol. 210; p. 157.
- Atwood, William S., and F. Ditchfield, Montreal, Quebec, Canada. Railway-car. No. 1,125,932; Jan. 26; Gaz. vol. 210; p. 1075.
- AuloGo Motor Cap Company. (See Cohoon, James A., Jr., assignor.)
- Aube, Armidos J., Sault Ste. Marie, Mich. Pipe-wrench. No. 1,134,499; Apr. 6; Gaz. vol. 213; p. 152.
- Auberlin, Herman, Detroit, Mich. Street-stanchion. No. 1,164,909; Dec. 21; Gaz. vol. 221; p. 845.
- Aubrey, James M., Los Angeles, Cal. Means for thawing out water-pipes. No. 1,140,864; May 25; Gaz. vol. 214; p. 1213.
- Auble, James H., assignor of one-half to H. A. Barrett, Cincinnati, Ohio. Transmission-gearing. No. 1,145,826; July 6; Gaz. vol. 216; p. 298.
- Aubry, Harry T., and O. M. Schmidt, Chicago, Ill. Signal-lamp. No. 1,152,264; Aug. 31; Gaz. vol. 217; p. 1592.
- Auchu, Henry, Emporium, Pa. Producing closures on shells. No. 1,123,976; Jan. 5; Gaz. vol. 210; p. 264.
- Auchu, Henry, Emporium, Pa. Derrick. No. 1,141,919; June 8; Gaz. vol. 215; p. 330.
- Auchu, Henry, Emporium, Pa. Derrick. No. 1,143,019; June 15; Gaz. vol. 215; p. 754.
- Auchu, Henry, assignor to Keystone National Powder Company, Emporium, Pa. Shell-closer for shell-making machines. No. 1,127,718; Feb. 9; Gaz. vol. 211; p. 408.
- Audet, Frank X., Boston, Mass. Musical instrument. No. 1,142,744; June 8; Gaz. vol. 215; p. 614.
- Audett, Christopher H., and J. Linhoff, Minneapolis, Minn. Gas-generating oil-burner. No. 1,151,329; Aug. 24; Gaz. vol. 217; p. 1223.
- Audibert, Maurice. (See Berthon and Audibert.)
- Audibert, Maurice, Villeurbanne, France. Lens system for color photography and for projection. No. 1,124,253; Jan. 12; Gaz. vol. 210; p. 408.
- Audiffren, Marcel, Golbey, near Epinal, and H. A. Singrün, Epinal, France, assignors to Audiffren Refrigerating Machine Company. Refrigerating apparatus. No. 1,155,780; Oct. 5; Gaz. vol. 219; p. 158.
- Audiffren Refrigerating Machine Company. (See Audiffren and Singrün, assignors.)
- Audsley, Maurice A., Corona, N. Y. Game. No. 1,134,579; Apr. 6; Gaz. vol. 213; p. 181.
- Auel, Carl B., Wilkensburg, and J. A. Burns, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Welding-machine. No. 1,130,239; Mar. 2; Gaz. vol. 212; p. 138.
- Auer, Andrew, *et al.* (See Hoferle, John, assignor.)
- Auer, George, White Plains, N. Y. Adjustable sign and lighting post. No. 1,144,629; June 29; Gaz. vol. 215; p. 1365.
- Auer, George, White Plains, N. Y. Concrete fence construction. No. 1,149,613; Aug. 10; Gaz. vol. 217; p. 506.
- Auer, Louis, *et al.* (See Hoferle, John, assignor.)
- Auiero, Emanuel, Brooklyn, N. Y. Direction-indicating device. No. 1,130,690; Mar. 2; Gaz. vol. 212; p. 297.
- Auiero, Emanuel, Brooklyn, N. Y. Metallic acoustic diaphragm and the manufacture thereof. No. 1,146,773; July 13; Gaz. vol. 216; p. 649.
- Auiero, Emanuel, Brooklyn, N. Y. Mechanical horn-agitator. No. 1,164,250; Dec. 14; Gaz. vol. 221; p. 573.
- Auiero, Michael A., Brooklyn, N. Y. Automobile-horn. No. 1,153,534; Sept. 14; Gaz. vol. 218; p. 454.
- Aufinger, Francissek, and J. Lemankiewicz, Braddock, Pa. Life-boat. No. 1,142,224; June 8; Gaz. vol. 215; p. 437.
- Aufuldish, John B., Dayton, Ohio. Starter for explosive-engines. No. 1,143,930; June 22; Gaz. vol. 215; p. 1093.
- Aufuldish, John B., Dayton, Ohio. Starter for explosive-engines. No. 1,151,987; Aug. 31; Gaz. vol. 217; p. 1496.
- Aufuldish, John B., Dayton, Ohio. Starter for explosive-engines. No. 1,155,781; Oct. 5; Gaz. vol. 219; p. 159.

Alphabetical list of patentees—Continued.

- Aug. Goertz & Co. (See Eigen, Renno vom, assignor.)
 Augensen, August M., Maywood, Ill., assignor to Sanitary Can Company, New York, N. Y. Combined counting and stamping mechanism. No. 1,130,682; Mar. 2; Gaz. vol. 212; p. 294.
 Augensen, August M., Maywood, Ill., assignor to Sanitary Can Company, New York, N. Y. Can-body-feeding mechanism. No. 1,134,028; Mar. 30; Gaz. vol. 212; p. 1635.
 Augensen, August M., Maywood, Ill., assignor to Sanitary Can Company, New York, N. Y. Article-feeding mechanism. No. 1,138,588; May 4; Gaz. vol. 214; p. 301.
 Auger, William H. A. (See Stopp, Alvin C., assignor.)
 August Buermann Manufacturing Company. (See Buermann, George, assignor.)
 August, Nathan Jr., Newark, N. J. Plumber's fixture. No. 1,142,225; June 8; Gaz. vol. 215; p. 437.
 Augustin, Walter J., Fond du Lac, Wis. Brake-operating means for phonographs. No. 1,151,330; Aug. 24; Gaz. vol. 217; p. 1224.
 Augustine, Charles, Hermann, Mo. Work-feeding attachment for sewing-machines. No. 1,156,339; Oct. 12; Gaz. vol. 219; p. 376.
 Aukam & Co., Hermann. (See Leatham, James, assignor.)
 Auld, Elgie C., Scottdale, Pa. Coke-oven door. No. 1,151,331; Aug. 24; Gaz. vol. 217; p. 1224.
 Aull, Jerome J., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Priming-cup. No. 1,154,683; Sept. 28; Gaz. vol. 218; p. 914.
 Ault, Mary, executrix. (See Ault, William S.)
 Ault, William S., deceased, Wabash, Ind.; M. Ault, executrix. Hinge. No. 1,128,931; Feb. 16; Gaz. vol. 211; p. 883.
 Aultman & Taylor Machinery Company, The. (See Seaman, George W., assignor.)
 Aune, Anders, Waltham, Mass., assignor to Waltham Watch Company. Winding-indicator. No. 1,143,567; June 15; Gaz. vol. 215; p. 945.
 Aunes, Leonard, Cambridge, Mass. Sugar-wafer machine. No. 1,164,566; Dec. 14; Gaz. vol. 221; p. 685.
 Augner, Clyde A., San Francisco, Cal. Artificial knee-joint. No. 1,138,923; May 11; Gaz. vol. 214; p. 459.
 Auracher, Charles E., assignor to Le Febure Ledger Company, Cedar Rapids, Iowa. Loose-leaf book. No. 1,146,915; July 20; Gaz. vol. 216; p. 719.
 Aurand, Balera J., assignor of one-half to H. G. Peters, Mount Giload, Ohio. Vehicle-wheel. No. 1,132,148; Mar. 16; Gaz. vol. 212; p. 876.
 Aurand, Edward L., assignor to H. O. Jackson, Denver, Colo. Rotary explosive-engine. No. 1,146,545; July 13; Gaz. vol. 216; p. 571.
 Aurora Automatic Machinery Company. (See Levedahl, Axel, assignor.)
 Aurora Automatic Machinery Company. (See Norling, Reinhold A., assignor.)
 Aurora Automatic Machinery Company. (See Ottaway, William, assignor.)
 Aurora Automatic Machinery Company. (See Sperry, Frank E., assignor.)
 Austin, A. T., *et al.* (See Anderson, Charles O., assignor.)
 Austin, A. T. (See Austin, Wilson A., assignor.)
 Austin, Basil G., assignor to Austin Organ Company, Hartford, Conn. Organ stop mechanism. No. 1,162,279; Nov. 30; Gaz. vol. 220; p. 1539.
 Austin, Cassinuss K., Woodstock, Ill. Spark-plug. No. 1,166,108; Dec. 28; Gaz. vol. 221; p. 1303.
 Austin, F. C. (See Nicoll, Konrad, assignor.)
 Austin, Frederick C. (See Bager, Frederic E., assignor.)
 Austin, Frederick C. (See Bathrick, Charles E., assignor.)
 Austin, Frederick C. (See Bettis, William I., assignor.)
 Austin, Frederick C. (See Bunnell, Morton G., assignor.)
 Austin, Frederick C. (See French, James C., assignor.)
 Austin, Frederick C. (See Jacobs, Charles C., assignor.)
 Austin, Frederick C. (See Rosendahl, Nils M., assignor.)
 Austin, George E., New York, and F. Lachance, Brooklyn, N. Y.; said Lachance assignor to said Austin. Pinion-puller. No. 1,150,729; Aug. 17; Gaz. vol. 217; p. 961.
 Austin, Harry L., Huron, S. D. Coaster-wagon. No. 1,165,832; Dec. 28; Gaz. vol. 221; p. 1206.
 Austin, Henry K., Reading, Mass. Heating apparatus. No. 1,155,782; Oct. 5; Gaz. vol. 219; p. 159.
 Austin, Herbert, Bromsgrove, England. Wheel-rim for holding pneumatic tires. No. 1,132,898; Mar. 23; Gaz. vol. 212; p. 1199.
 Austin, John D., Tampa, Fla. Clothes-washer. No. 1,160,361; Nov. 16; Gaz. vol. 220; p. 771.
 Austin, John T., assignor to Austin Organ Company, Hartford, Conn. Organ stop-action. No. 1,123,216; Jan. 5; Gaz. vol. 210; p. 4.
 Austin, John T., assignor to Austin Organ Company, Hartford, Conn. Pedal mechanism. No. 1,124,685; Jan. 12; Gaz. vol. 210; p. 565.
 Austin, John T., assignor to Austin Organ Company, Hartford, Conn. Organ stop-action. No. 1,131,814; Mar. 16; Gaz. vol. 212; p. 756.
 Austin, John T., assignor to Austin Organ Company, Hartford, Conn. Organ. No. 1,145,867; July 6; Gaz. vol. 216; p. 312.
 Austin, John T., assignor to Austin Organ Company, Hartford, Conn. Shutter mechanism. No. 1,164,973; Dec. 21; Gaz. vol. 221; p. 868.
 Austin, Manufacturing Company. (See Aitken, Andrew W., assignor.)
 Austin Manufacturing Company. (See Bunnell, Morton G., assignor.)
 Austin Organ Company. (See Austin, Basil G., assignor.)
 Austin Organ Company. (See Austin, John T., assignor.)
 Austin, Sydney B., Sudbrook Park, Md., assignor, by mesne assignments, to F. L. Huidekoper, trustee, Washington, D. C. Calculating-machine. No. 1,136,391; Apr. 20; Gaz. vol. 213; p. 900.
 Austin, Thomas A. (See Arnold and Austin.)
 Austin, Walter M., Swissvale, and J. N. Mahoney, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Circuit-interrupting device. No. 1,156,655; Oct. 12; Gaz. vol. 219; p. 490.
 Austin, William, Scranton, assignor of one-half to M. W. O'Boyle, Pittston, Pa. Track-stop. No. 1,137,178; Apr. 27; Gaz. vol. 213; p. 1217.
 Austin, William, Scranton, assignor of one-half to M. W. O'Boyle, Pittston, Pa. Valve mechanism for air-brake systems. No. 1,137,179; Apr. 27; Gaz. vol. 213; p. 1218.
 Austin, William, Scranton, assignor of one-half to M. W. O'Boyle, Pittston, Pa. Safety automatic train-stopping means. No. 1,144,454; June 29; Gaz. vol. 215; p. 1307.
 Austin, William A., Lima, Ohio, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Means for operating the clutches of rack-locomotives. No. 1,124,990; Jan. 12; Gaz. vol. 210; p. 672.
 Austin, William A., and S. S. Lawson, assignors to Lima Locomotive Corporation, Lima, Ohio. Screw reverse-gear for engine-valves. No. 1,144,455; June 29; Gaz. vol. 215; p. 1507.
 Austin, Wilson A., *et al.* (See Anderson, Charles O., assignor.)
 Austin, Wilson A., assignor of one-half to A. T. Austin, Omaha, Nebr. Railway-switch-operating mechanism or the like. No. 1,128,570; Feb. 16; Gaz. vol. 211; p. 756.
 Austin, Wilson A., assignor of one-half to A. T. Austin, Omaha, Nebr. Railway-switch and the like. No. 1,148,564; Aug. 3; Gaz. vol. 217; p. 29.
 Auth, Charles, New York, assignor to E. L. Auth, Brooklyn, N. Y. Annunciator-drop. No. 1,142,477; June 8; Gaz. vol. 215; p. 527.
 Auth, Emma L. (See Auth, Charles, assignor.)
 Authier, Joseph M. (See Cordeau, Adolphe, assignor.)
 Auto Air-Rotar Company. (See Ten Eyck, Frank E., assignor.)
 Auto Device Manufacturing Company. (See Furmidge, Samuel, assignor.)
 Auto-Marine Equipment Co. (See McCarthy, Thomas J., assignor.)
 Auto Parts Mfg. Co., The. (See Sonnichsen, Andreas M., assignor.)
 Auto Pneumatic Action Company. (See Danquard, Thomas, assignor.)
 Auto Pneumatic Action Company. (See Keeley, William J., assignor.)
 Auto Pneumatic Action Company, The. (See Southgate, Louis W., assignor.)
 Auto Pneumatic Action Company, The. (See Staples, Sidney J., assignor.)
 Auto Stopper Company. (See Hicks, John A., assignor.)
 Auto Strop Company. (See Fuller, Franz A., assignor.)
 Auto Strop Company. (See Gaisman, Henry J., assignor.)
 Auto Strop Company. (See Simms, Harold H., assignor.)
 Auto Trunk and Acme Suit Case Mfg. Co., The. (See Zieve, Abraham, assignor.)
 Auto Utilities Manufacturing Company. (See Breldert, George C., assignor.)
 Automatic Air Brake Company. (See Taft, Sydney E., assignor.)
 Automatic Appliance Company. (See Bordeaux, Foster J., assignor.)
 Automatic Appliances and Manufacturing Corporation. (See Webber and Slater, assignors.)
 Automatic Arms Company, The. (See Lewis, Isaac N., assignor.)
 Automatic Can Filling Machinery Company. (See Small, Chesley T., assignor.)
 Automatic Cashier Corporation, The. (See Hibner, Joseph F., assignor.)
 Automatic Chemical Closet Company. (See Scarborough and King, assignors.)
 Automatic Chemical Fire Extinguisher and Alarm Company. (See Brodton, Edward R., assignor.)
 Automatic Coin Wrapping Machine Company. (See Batdorf, Charles S., assignor.)
 Automatic Devices Company. (See Knutson, Alfred W., assignor.)
 Automatic Electric Company. (See Blessing, John G., assignor.)
 Automatic Electric Company. (See Davis, Bethuel M., assignor.)
 Automatic Electric Company. (See Erickson, John, assignor.)
 Automatic Electric Company. (See Fales, Edward D., assignor.)
 Automatic Electric Company. (See Hovland, Henry, assignor.)
 Automatic Electric Company. (See Hulit, John A., assignor.)

Alphabetical list of patentees—Continued.

- Automatic Electric Company. (See Keith, Alexander E., assignor.)
 Automatic Electric Company. (See Martin, Talbot G., assignor.)
 Automatic Electric Company. (See Mellinger, Edward A., assignor.)
 Automatic Electric Company. (See Meyer, Johan L. E., assignor.)
 Automatic Electric Company. (See Newforth, Frank, Jr., assignor.) (Reissue.)
 Automatic Electric Company. (See Olson, Otto V., assignor.)
 Automatic Electric Company. (See Powell, Winfred T., assignor.)
 Automatic Electric Company. (See Schwartz, Michael, assignor.)
 Automatic Electric Company. (See Willis, Bernard D., assignor.)
 Automatic Electric Company. (See Witt, Samuel E., assignor.)
 Automatic Electric Pump Company. (See Hall and Fraser, assignors.)
 Automatic Enunciator Company. (See Comer, John J., assignor.)
 Automatic Furnace Co. (See Johnston, Robert T., assignor.)
 Automatic Furnace Company. (See Wood, Henry A. W., assignor.)
 Automatic Gas Lighting Equipment Co. (See Shaw, A. B., assignor.)
 Automatic Heat Regulator Co. (See Brown, Caroline M., assignor.)
 Automatic Heat Regulator Co. (See Daugherty, Otto M., assignor.)
 Automatic Justifier Company. (See Langseth, Randolph, assignor.)
 Automatic Lamp Control Company, The. (See Meeker, William B., assignor.)
 Automatic Lifting Jack Company, The. (See Parker and Wittliff, assignors.)
 Automatic Machine Company. (See Northrup, Elmer C., assignor.)
 Automatic Machine Manufacturing Company. (See Melchert, Charles A., assignor.)
 Automatic Magazine Cigarette Box Co. (See O'Donnell, Patrick S., assignor.)
 Automatic Press Feeder Company. (See Kirkman, Karl F., assignor.)
 Automatic Railway Street and Station Indicator and Advertising Co. (See Sullivan, Michael F., assignor.)
 Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
 Automatic Recording Safe Company, The. (See Larsen, Ivert, assignor.)
 Automatic Refrigerating Company. (See Date, William E., assignor.)
 Automatic Refrigerating Company. (See Owens, Michael F., assignor.)
 Automatic Retrieving Trolley Corporation. (See McFarland, Samuel E., assignor.)
 Automatic Sprinkler Company of America, The. (See Brainard, Sidney W., assignor.)
 Automatic Time Stamp Company, The. (See Wilson, John C., assignor.)
 Automatic Train Control & Signal Company. (See Gray, Gardner B., assignor.)
 Automatic Train Control & Signal Company. (See Thurber, Guy P., assignor.)
 Automatic Train Stop Company. (See Woltmann, Ernst, assignor.)
 Automatic Utilities Co. (See Honecker, Charles A., assignor.)
 Automatic Vending Machine Company. (See Bachman, Clayton S., assignor.)
 Automatic Weighing Machine Company. (See Tremaine, Edward G., assignor.)
 Automatic Weighing Machine Company. (See Webber, John D., assignor.)
 Autometrograph Részvénytársaság. (See Kolár, Nándor, assignor.)
 Autoplano Co. (See O'Connor, James, assignor.)
 Autopress Company, The. (See Freeman, Rufus A., assignor.)
 Autopress Company, The. (See Thomas, Frank W., assignor.)
 Autosales Gum and Chocolate Company. (See Bridges, Charles E., assignor.)
 Autosales Gum and Chocolate Company. (See Corbet, Denys W., assignor.)
 Autosales Gum and Chocolate Company. (See Patterson, James W., assignor.)
 Autosales Gum and Chocolate Company. (See Webster, John A., assignor.)
 Avera, Margaret C., Los Angeles, Cal. Hook and eye. No. 1,154,558; Sept. 21; Gaz. vol. 218; p. 841.
 Averitt, Cyrus M., Kansas City, Mo. Tent. No. 1,136,992; Apr. 27; Gaz. vol. 213; p. 1150.
 Avery, Charles E., Jersey City, N. J., assignor to Manhattan Electrical Supply Company, New York, N. Y. Electric horn. No. 1,148,348; July 27; Gaz. vol. 216; p. 1252.
 Avery, Charles E., Trenton, N. J., assignor to The Manhattan Electrical Supply Company, New York, N. Y. Gong. No. 1,155,869; Oct. 5; Gaz. vol. 219; p. 190.
 Avery Company. (See Bartholomew, John B., assignor.)
 Avery Company. (See Chubbuck, Orlo P., assignor.)
 Avery Company. (See Gregory, Walter, assignor.) (Re-issue.)
 Avery Company. (See Solomon, Edgar J., assignor.)
 Avery Company. (See Springer, William N., assignor.)
 Avery, Courtney C. (See Underhill and Avery.)
 Avery, Eugene H., Bradgate, Iowa. Gearing. No. 1,150,568; Aug. 17; Gaz. vol. 217; p. 907.
 Avery, Frederick C., Chicago, Ill. Gas-engine. No. 1,135,650; Apr. 13; Gaz. vol. 213; p. 599.
 Avery, Frederick C., Chicago, Ill. Vehicle transmission. No. 1,147,669; July 20; Gaz. vol. 216; p. 983.
 Avery, Ross B., South Bend, Ind. Receiver for wireless telegraphy. No. 1,148,799; June 22; Gaz. vol. 215; p. 1049.
 Avery, Sarah E., Columbia, S. C. Folding sewing-machine. No. 1,136,921; Apr. 27; Gaz. vol. 213; p. 1124.
 Avery Scale Company, The. (See Johnson, Sidney H., assignor.)
 Avery, True M., Glens Falls, N. Y., assignor to The Union Bag & Paper Company, Apparatus for making paper bags. No. 1,144,630; June 29; Gaz. vol. 215; p. 1365.
 Avery, William, Richmond, England. Feeding mechanism for screw nipping and turning machines. No. 1,150,240; Aug. 17; Gaz. vol. 217; p. 793.
 Avis, Samuel W., assignor to The Merrow Machine Company, Hartford, Conn. Stitch-controller for crochet machines. No. 1,125,437; Jan. 19; Gaz. vol. 210; p. 868.
 Avisus, Leopold, assignor to Brambach Piano Company, New York, N. Y. Grand-piano case. No. 1,160,969; Nov. 16; Gaz. vol. 220; p. 987.
 Avram, Mois H., New York, N. Y. Composite stock-certificate. No. 1,148,946; Aug. 3; Gaz. vol. 217; p. 163.
 Avram, Mois H., assignor to Slocum, Avram & Slocum, Inc., New York, N. Y. Efficiency-recorder. No. 1,131,104; Mar. 9; Gaz. vol. 212; p. 472.
 Avram, Mois H., assignor to Slocum, Avram & Slocum, Inc., New York, N. Y. Automatic time-switch. No. 1,151,848; Aug. 31; Gaz. vol. 217; p. 1450.
 Avram, Mois H., New York, N. Y., assignor to Standard Silica Brick Machinery Company, Wilmington, Del. Apparatus for hydrating lime. No. 1,157,284; Oct. 19; Gaz. vol. 219; p. 741.
 Awalt, James C., and T. F. Stevens, Braman, Okla. Automobile-wheel. No. 1,140,560; May 25; Gaz. vol. 214; p. 1108.
 Axe, Roy T., Syracuse, N. Y. Trap-door for railway-cars. No. 1,144,983; June 29; Gaz. vol. 215; p. 1486.
 Axe, Roy T., assignor to O. M. Edwards, Syracuse, N. Y. Trap-door for railway-cars and similar structures. No. 1,138,070; May 4; Gaz. vol. 214; p. 123.
 Axe, Roy T., assignor to O. M. Edwards, Syracuse, N. Y. Spring-roller. No. 1,145,962; July 13; Gaz. vol. 216; p. 864.
 Axelrod, Harry. (See Gershovitz and Axelrod.)
 Axmacher, Christ, T. A. Gorman, and J. Hart, Johnstown, Pa. Ejector for thread-rolling machines. No. 1,161,586; Nov. 23; Gaz. vol. 220; p. 1252.
 Axman, Julia A., executrix. (See Axman, Rudolf.)
 Axman, Rudolf, deceased, San Francisco, Cal.; J. A. Axman, executrix. Railway-rail joint. No. 1,129,622; Feb. 23; Gaz. vol. 211; p. 1161.
 Axtell, Fred W., Fort Worth, Tex. Pump-jack for double-acting pumps. (Reissue.) No. 1,387,0; Jan. 19; Gaz. vol. 210; p. 1040.
 Aycock, William E., Moultrie, Ga. Penciling-guide. No. 1,164,449; Dec. 14; Gaz. vol. 221; p. 646.
 Ayer, Joseph V., and W. L. McCarel, assignors to Ayer-McCarel-Reagan Clay Company, Brazil, Ind. Silo-tile. No. 1,166,405; Dec. 28; Gaz. vol. 221; p. 1413.
 Ayer-McCarel-Reagan Clay Company. (See Ayer and McCarel, assignors.)
 Ayer, Nathan E., Portland, Oreg. Cable-tractor. No. 1,164,910; Dec. 21; Gaz. vol. 221; p. 846.
 Ayer & Son, N. W. (See Sackett, Harrie A., assignor.)
 Ayers, Albert M. (See Beck and Ayers.)
 Ayers, Augustine R., assignor of one-half to J. J. Bernet, Chicago, Ill. Locomotive-stoker. No. 1,156,263; Oct. 12; Gaz. vol. 219; p. 350.
 Ayers, Augustine R., assignor of one-half to J. J. Bernet, Chicago, Ill. Stoker for locomotives. No. 1,156,264; Oct. 12; Gaz. vol. 219; p. 350.
 Ayers, Burley B., Chicago, Ill. Towing-cable. No. 1,147,914; July 27; Gaz. vol. 216; p. 1096.
 Ayers, Burley B., Oak Park, Ill., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Hub for wire wheels. No. 1,151,646; Aug. 31; Gaz. vol. 217; p. 1379.
 Ayers, Charles B., Philadelphia, Pa. Asbestos-containing composition for making shingles. No. 1,130,240; Mar. 2; Gaz. vol. 212; p. 138.
 Ayers, Clifford E., San Francisco, Cal. Trowel. No. 1,164,161; Dec. 14; Gaz. vol. 221; p. 544.
 Ayers, Edward W., Manchester, Mass. Ice-plow. No. 1,134,250; Apr. 6; Gaz. vol. 213; p. 62.
 Ayers, James R., Petersburg, Va. Peanut-planter. No. 1,161,369; Nov. 23; Gaz. vol. 220; p. 1176.

Alphabetical list of patentees—Continued.

- Ayers, James R., Petersburg, Va. Guano-sower. No. 1,161,370; Nov. 23; Gaz. vol. 220; p. 1177.
- Ayers, James R., Petersburg, Va. Fertilizer-distributor. No. 1,161,371; Nov. 23; Gaz. vol. 220; p. 1177.
- Ayers, William N., Jr., Fort Smith, Ark. Piston. No. 1,147,915; July 27; Gaz. vol. 216; p. 1096.
- Ayerst, Harry C., assignor to Sanitary Pulp Products Company, Seattle, Wash. Paper bottle. No. 1,161,759; Nov. 23; Gaz. vol. 220; p. 1310.
- Aylsworth, Jonas W., East Orange, assignor to Halogen Products Company, Glen Ridge, N. J. Process and apparatus for compressing, drying, and transferring chlorine gas. No. 1,134,432; Apr. 6; Gaz. vol. 213; p. 127.
- Aylsworth, Jonas W., East Orange, assignor to Condensite Company of America, Glen Ridge, N. J. Molding hollow objects of refractory condensation products. No. 1,135,962; Apr. 13; Gaz. vol. 213; p. 708.
- Aylsworth, Jonas W., East Orange, assignor to Condensite Company of America, Glen Ridge, N. J. Expanded graphite and composition thereof. No. 1,137,373; Apr. 27; Gaz. vol. 213; p. 1290.
- Aylsworth, Jonas W., East Orange, assignor to Condensite Company of America, Glen Ridge, N. J. Varnish, enamel, or lacquer composition. No. 1,137,374; Apr. 27; Gaz. vol. 213; p. 1291.
- Aylsworth, Jonas W., East Orange, assignor to Condensite Company of America, Glen Ridge, N. J. Coating porous substances. No. 1,139,470; May 18; Gaz. vol. 214; p. 689.
- Aylsworth, Jonas W., assignor to Condensite Company of America, East Orange, N. J. Production of matrices. No. 1,144,338; June 22; Gaz. vol. 215; p. 1239.
- Aylsworth, Jonas W., East Orange, assignor to Condensite Company of America, Glen Ridge, N. J. Plastic molding composition and producing same. No. 1,146,299; July 13; Gaz. vol. 216; p. 482.
- Aylsworth, Jonas W., East Orange, assignor to Condensite Company of America, Glen Ridge, N. J. Forming phenolic condensation products. No. 1,146,300; July 13; Gaz. vol. 216; p. 483.
- Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Condensite Company of America, Bloomfield, N. J. Molding disk-shaped articles. No. 1,146,389; July 13; Gaz. vol. 216; p. 514.
- Aylsworth, Jonas W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Molding duplicate sound-records and other objects. No. 1,146,384; July 13; Gaz. vol. 216; p. 512.
- Aylsworth, Jonas W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Molding duplicate sound-records and other objects. No. 1,146,385; July 13; Gaz. vol. 216; p. 513.
- Aylsworth, Jonas W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Making phonograph-records. No. 1,146,386; July 13; Gaz. vol. 216; p. 513.
- Aylsworth, Jonas W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Disk sound-records. No. 1,146,387; July 13; Gaz. vol. 216; p. 514.
- Aylsworth, Jonas W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Making sound-records. No. 1,146,388; July 13; Gaz. vol. 216; p. 514.
- Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Molding sound-records and other objects. No. 1,146,390; July 13; Gaz. vol. 216; p. 515.
- Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Forming molded articles. No. 1,146,391; July 13; Gaz. vol. 216; p. 515.
- Aylsworth, Jonas W., East Orange, N. J., assignor, by mesne assignments, to Pyrene Manufacturing Company. Fire-extinguishing liquid. No. 1,154,161; Sept. 21; Gaz. vol. 218; p. 705.
- Aylsworth, Jonas W., East Orange, and D. Smith, Montclair, assignors to Condensite Company of America, Glen Ridge, N. J. Production of hollow resilient balls. No. 1,134,433; Apr. 6; Gaz. vol. 213; p. 127.
- Aylsworth, Jonas W., East Orange, N. J., and E. L. Aiken, Springfield, Mass., assignors, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Sound-record and other object. No. 1,151,849; Aug. 31; Gaz. vol. 217; p. 1450.
- Aylward, John J., Brooklyn, N. Y. Signaling and indicating device. No. 1,126,681; Feb. 2; Gaz. vol. 211; p. 4.
- Ayotte, Joseph R., assignor to René Wheel Company, Chicago, Ill. Wheel. No. 1,142,226; June 8; Gaz. vol. 215; p. 428.
- Ayrault, John, *et al.* (See Casler, Benjamin G., assignor.)
- Ayrault, Miles, *et al.* (See Casler, Benjamin G., assignor.)
- Ayre, John H., Tilton, N. H. Steering mechanism for vehicles. No. 1,142,658; June 8; Gaz. vol. 215; p. 588.
- Ayres, Elwood B. (See Rihl and Ayres.)
- Ayres, Elwood B., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,147,593; July 20; Gaz. vol. 216; p. 956.
- Ayres, Elwood B., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying apparatus. No. 1,161,587; Nov. 23; Gaz. vol. 220; p. 1252.
- Ayres & Sons, Wm. (See Ayres, William G., assignor.)
- Ayres, Wallace S., Hazleton, Pa. Conveyer. No. 1,136,578; Apr. 20; Gaz. vol. 213; p. 967.
- Ayres, Wallace S., Hazleton, Pa. Separating-machine. No. 1,139,250; May 11; Gaz. vol. 214; p. 575.
- Ayres, Wallace S., Hazleton, Pa. Endless floor. No. 1,140,236; May 18; Gaz. vol. 214; p. 958.
- Ayres, William, Mount Hamilton, Ontario, Canada, assignor to American Can Company, New York, N. Y. Can-end. No. 1,136,993; Apr. 27; Gaz. vol. 213; p. 1150.
- Ayres, William G., assignor to Wm. Ayres & Sons, Philadelphia, Pa. Coated fabric. No. 1,159,155; Nov. 2; Gaz. vol. 220; p. 258.
- Ayrton, Hertha, London, England. Lantern or inclosure for lamps. No. 1,125,438; Jan. 19; Gaz. vol. 210; p. 869.
- Azurit Company Limited For Chemical Industry Koloza-var. (See Erdős, Eugene, assignor.)
- Azzara, Santo, Brooklyn, N. Y. Shoe. No. 1,151,850; Aug. 31; Gaz. vol. 217; p. 1450.
- B. A. Ballou and Company. (See Coombs, Edgar I., assignor.)
- B. A. Ballou & Company. (See Morehouse, Eugene, assignor.)
- B. A. Ballou and Company. (See Naylor, William R., assignor.)
- B. & B. Manufacturing Company. (See Belcher, Robert E., assignor.)
- B. & B. Mfg. Co., The. (See Bixby, Allan S., assignor.)
- B. F. Goodrich Company, The. (See Gammeter, John R., assignor.)
- B. F. Goodrich Company, The. (See Hemenover, William E., assignor.)
- B. F. Goodrich Company, The. (See Kepler, Irwin F., assignor.)
- B. F. Goodrich Company, The. (See Moses, Edmund Q., assignor.)
- B. F. Goodrich Company, The. (See Olin, Robert R., assignor.)
- B. F. Goodrich Company, The. (See Raymond, Harry K., assignor.)
- B. F. Goodrich Company, The. (See Shaw, Edwin C., assignor.)
- B. F. Goodrich Company, The. (See Spence and Clarke assignors.)
- B. F. Goodrich Company, The. (See Stauffer, Burton F., assignor.)
- B. F. Goodrich Company, The. (See Tew, James D., assignor.)
- B. F. Goodrich Company, The, *et al.* (See Wagenhorst, James H., assignor.)
- B. F. Perkins & Son. (See Pope, Charles E., assignor.)
- B. F. Perkins & Son. (See Torrance, Charles E., assignor.)
- B. F. Sturtevant Company. (See Allen, George W., assignor.)
- B. F. Sturtevant Company. (See Bentley, Oliver D. H., assignor.)
- B. F. Sturtevant Company. (See Bergstrom, Carl O., assignor.)
- B. F. Sturtevant Company. (See Ellis, Frederic R., assignor.)
- B. F. Sturtevant Company. (See Maxfield, Daniel E., assignor.)
- B. F. Sturtevant Company. (See Ross, John O., assignor.)
- B. F. Sturtevant Company. (See Williams, Eugene B., assignor.)
- B. K. Elliot Company. (See Weldin, Lewis C., assignor.)
- B. M. Shanley, Jr., Co. (See Pryor, Thomas F., Jr., assignor.)
- B. R. E. Manufacturing Company. (See Seavey, Edward I., assignor.)
- B. V. D. Company, The. (See Heyn, Edmund C., assignor.)
- B. Z. Toy Mfg. Co. (See Greayer, Philip J., assignor.)
- Baader, Stephan, Philadelphia, Pa. Reversing-gear. No. 1,127,846; Feb. 9; Gaz. vol. 211; p. 456.
- Baaron, John J., and A. T. Thorson, Odin, Minn. Horse-collar. No. 1,144,682; June 29; Gaz. vol. 215; p. 1383.
- Baash, Lawrence F., Fillmore, Cal. Pipe or casing dent remover. No. 1,157,073; Oct. 19; Gaz. vol. 219; p. 665.
- Babb, Charles H. (See Schutz, Joseph M., assignor.)
- Babb, Edwin, Akron, Ohio, assignor to National Fire Proofing Company, Pittsburgh, Pa. Silo and buildings therefor. No. 1,164,055; Dec. 14; Gaz. vol. 221; p. 508.
- Babb, Rease B., Blackwell, Okla. Threshing-machine and grain-separator. No. 1,140,237; May 18; Gaz. vol. 214; p. 958.
- Babb, Walter A. (See Osborne, Evan E., assignor.)
- Babbitt, Isaac N., Fairhaven, Mass. Sprocket attachment for valve-handles. No. 1,151,749; Aug. 31; Gaz. vol. 217; p. 1413.
- Babbitt, Miles E., Brookfield, and J. F. Beaumont, Worcester, Mass. Carbureter. No. 1,133,452; Mar. 30; Gaz. vol. 212; p. 1434.
- Babcock, Earle J., Grand Forks, N. D. Artificial fuel and making the same. No. 1,130,564; Mar. 2; Gaz. vol. 212; p. 254.

Alphabetical list of patentees—Continued.

- Babcock, Edward O., Niagara Falls, N. Y. Machine for making paper-board. No. 1,143,931; June 22; Gaz. vol. 215; p. 1094.
- Babcock, Frank H., Punxsutawney, Pa. Auto wheel attachment. No. 1,130,366; Mar. 2; Gaz. vol. 212; p. 182.
- Babcock, Garrison, Rochester, assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Multiple-contact relay. No. 1,133,786; Mar. 30; Gaz. vol. 212; p. 1554.
- Babcock, Garrison, Chicago, Ill., assignor to F. C. Stevens, Attica, N. Y. Relay device. No. 1,133,787; Mar. 30; Gaz. vol. 212; p. 1555.
- Babcock, Garrison, assignor to Telechronometer Company, Rochester, N. Y. Telephone-exchange system. No. 1,138,174; May 4; Gaz. vol. 214; p. 159.
- Babcock, Garrison, assignor to The Telechronometer Company, Rochester, N. Y. Telephone system. No. 1,138,175; May 4; Gaz. vol. 214; p. 160.
- Babcock, Ira J., Chicago, Ill. Smoke-indicator. No. 1,135,651; Apr. 13; Gaz. vol. 213; p. 599.
- Babcock, Wilbert L., assignor to The Waterbury Brass Goods Corporation, Waterbury, Conn. Hinge construction for face-plates and the like. No. 1,130,241; Mar. 2; Gaz. vol. 212; p. 138.
- Babcock & Wilcox Company, The. (See Bell, John E., assignor.)
- Babcock & Wilcox Company, The. (See Chester, Wilfred D., assignor.)
- Babcock & Wilcox Company, The. (See Harter, Isaac, assignor.)
- Babcock & Wilcox Company, The. (See Irish, David J., assignor.)
- Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
- Babcock & Wilcox Company, The. (See Jacobus and Lewis, assignors.)
- Babcock & Wilcox Company, The. (See Mosher, Charles D., assignor.)
- Babcock & Wilcox Company, The. (See Peabody, Ernest H., assignor.)
- Babcock & Wilcox Company, The. (See Peabody and Irish, assignors.)
- Babcock & Wilcox Company, The. (See Rosenthal, James H., assignor.)
- Babcock & Wilcox Company, The. (See Sewall, Minott W., assignor.)
- Babcock & Wilcox Company, The. (See Sewall and Jacobus, assignors.)
- Babcock & Wilcox Company, The. (See Sneddon, James P., assignor.)
- Babcock & Wilcox Company, The. (See Wells, Edward H., assignor.)
- Babcock & Wilcox Company, The. (See Wolff, John, assignor.)
- Babcock, William J., *et al.* (See Sinclair, George, assignor.)
- Babek, Aloysius S., Waco, Tex. Agitator. No. 1,129,158; Feb. 23; Gaz. vol. 211; p. 997.
- Babich, George G., New York, N. Y. Burial-vault. No. 1,153,535; Sept. 14; Gaz. vol. 218; p. 455.
- Bablon, René, Les Lilas, France. Construction of cocks. No. 1,140,938; May 25; Gaz. vol. 214; p. 1240.
- Babos, Lacey, Winslow, Wash. Hose-coupling. No. 1,136,502; Apr. 20; Gaz. vol. 213; p. 940.
- Babos, Lacey, Winslow, Wash. Hose-coupling. No. 1,151,851; Aug. 31; Gaz. vol. 217; p. 1451.
- Bach, John A., St. Paul, Minn. Stringed musical instrument. No. 1,152,925; Sept. 7; Gaz. vol. 218; p. 200.
- Bach, William F. (See Cooley and Bach.)
- Bacharach, Abe, *et al.* (See Schwarz, Julius, assignor.)
- Bacharach, Emile M., *et al.* (See Brown, David L., assignor.)
- Bachardy, Stephen J., Newark, N. J. assignor of one-half to A. De Dominicis, New York, N. Y. Money-paying machine. No. 1,149,886; Aug. 10; Gaz. vol. 217; p. 604.
- Bache, John H. V., Boundbrook, N. J. Sanitary tent. No. 1,123,657; Jan. 5; Gaz. vol. 210; p. 157.
- Bache, Leigh S., assignor to The Graphite Lubricating Company, Boundbrook, N. J. Self-lubricating bearing. No. 1,132,758; Mar. 23; Gaz. vol. 212; p. 1148.
- Bache, Leigh S., assignor to The Graphite Lubricating Company, Boundbrook, N. J. Floating bearing. No. 1,132,759; Mar. 23; Gaz. vol. 212; p. 1148.
- Bache, Leigh S., assignor to The Graphite Lubricating Company, Boundbrook, N. J. Oilless spindle. No. 1,153,592; Sept. 14; Gaz. vol. 218; p. 475.
- Bache, Leigh S., assignor to W. W. Smalley, Boundbrook, N. J. Egg-package. No. 1,149,489; Aug. 10; Gaz. vol. 217; p. 459.
- Bacher, Peter, Canton, Ohio. Making collapsible cores. No. 1,139,325; May 11; Gaz. vol. 214; p. 599.
- Bacher, Peter, Canton, Ohio, assignor of one-third to A. Hoeffer, Hammononton, N. J., and one-third to J. Yemiker, Akron, Ohio. Railway-joint. No. 1,133,694; Mar. 30; Gaz. vol. 212; p. 1523.
- Bacher, Solomon, Wolford, N. D. Bearing-bolt for plowcolters and the like. No. 1,166,309; Dec. 28; Gaz. vol. 221; p. 1379.
- Bachler, Frederick R., assignor to Kieselguhr Company of America, Los Angeles, Cal. Decolorizing liquids. No. 1,131,308; Mar. 9; Gaz. vol. 212; p. 543.
- Bachman, Clayton S., Fullerton, Pa. Vending-machine. No. 1,164,911; Dec. 21; Gaz. vol. 221; p. 846.
- Bachman, Clayton S., Fullerton, Pa., assignor to Automatic Vending Machine Company, Belvidere, N. J. Vending-machine. No. 1,125,037; Jan. 19; Gaz. vol. 210; p. 724.
- Bachman, Frank W. (See Osgood and Bachman.)
- Bachman, Franklin H. (See Bachman, Reuben H. and F. H.)
- Bachman, Hugo J., Denver, Colo. Internal-combustion engine. No. 1,155,699; Oct. 5; Gaz. vol. 219; p. 130.
- Bachman, Reuben H. and F. H., Allentown, Pa. Antidrip subframe for vehicles. No. 1,148,426; July 27; Gaz. vol. 216; p. 1277.
- Bachmann, Siegmund, Chicago, Ill. Box. No. 1,157,285; Oct. 19; Gaz. vol. 219; p. 741.
- Bachrach, Arthur N., assignor to S. L. Bachrach, New York, N. Y. Necktie. No. 1,163,308; Dec. 7; Gaz. vol. 221; p. 201.
- Bachrach, Samuel L. (See Bachrach, Arthur N., assignor.)
- Back, Alfred de, Essen-on-the-Ruhr, Germany, assignor to Goldschmidt Detinning Company, New York, N. Y. Modification of the method for recovering iron and steel from waste enameled articles. No. 1,126,621; Jan. 26; Gaz. vol. 210; p. 1327.
- Backer, Arthur J., Syracuse, N. Y. Folding table. No. 1,132,061; Mar. 16; Gaz. vol. 212; p. 844.
- Backert, John C., New York, N. Y. Cutter. No. 1,136,085; Apr. 20; Gaz. vol. 213; p. 790.
- Backert, John C., New York, N. Y. Cutting-machine. No. 1,137,251; Apr. 27; Gaz. vol. 213; p. 1245.
- Backman, William, Beacon, Iowa. Internal-combustion engine. No. 1,138,271; May 4; Gaz. vol. 214; p. 192.
- Backstrand, Clarence F., and C. M. Hoag, Riverside, Cal. Calculator. No. 1,157,609; Oct. 19; Gaz. vol. 219; p. 851.
- Backus, Cornelius D., Belva, W. Va. Spring-wheel. No. 1,162,545; Nov. 30; Gaz. vol. 220; p. 1630.
- Backus, Edward E., Chicago, Ill., assignor, by mesne assignments, to Hall Switch & Signal Company. Signaling system. No. 1,135,487; Apr. 13; Gaz. vol. 213; p. 540.
- Backus, Henry N., Detroit, Mich. Crate-lock. No. 1,133,254; Mar. 30; Gaz. vol. 212; p. 1364.
- Backus, Henry N., Detroit, Mich. Delivery-crate. No. 1,152,366; Aug. 31; Gaz. vol. 217; p. 1629.
- Backus, John C., Smethport, Pa. Locking-clamp. No. 1,156,739; Oct. 12; Gaz. vol. 219; p. 518.
- Backus, Oscar E., Waukesha, Wis. Button. No. 1,127,847; Feb. 9; Gaz. vol. 211; p. 456.
- Backus, William H., Danielson, Conn. Rake-cleaner. No. 1,158,022; Oct. 26; Gaz. vol. 219; p. 1061.
- Bacon, Asa E., Yates Center, Kans. Hat-pin guard. No. 1,127,346; Feb. 2; Gaz. vol. 211; p. 237.
- Bacon, Charles F., Toledo, Ohio. Bug-eliminating machine. No. 1,144,019; June 22; Gaz. vol. 215; p. 1126.
- Bacon, Charles J. (See Brassert and Bacon.)
- Bacon, Charles J., Chicago, Ill. Boiler for utilizing waste heat. No. 1,138,346; May 4; Gaz. vol. 214; p. 220.
- Bacon, Dexter S., Minneapolis, Minn. Appliance for regulating teeth. No. 1,130,242; Mar. 2; Gaz. vol. 212; p. 138.
- Bacon, Frank R., Kalamazoo, Mich. Upholstering-machine. No. 1,159,885; Nov. 9; Gaz. vol. 220; p. 551.
- Bacon, Frederick J. (See Hewitt, Bernor, and Bacon.)
- Bacon, Joseph H., Cleveland, Ohio. Boiler. No. 1,151,750; Aug. 31; Gaz. vol. 217; p. 1413.
- Bacon, Nathaniel, assignor of one-half to S. A. Bodwell, Sanford, Me. Jack-stand. No. 1,127,159; Feb. 2; Gaz. vol. 211; p. 175.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Research Company, New York, N. Y. Flotation of minerals. No. 1,140,865; May 25; Gaz. vol. 214; p. 1213.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Research Company, New York, N. Y. Flotation of minerals. No. 1,140,866; May 25; Gaz. vol. 214; p. 1213.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Research Company, New York, N. Y. Recovery of cuprous sulfid from ores, &c. No. 1,151,234; Aug. 24; Gaz. vol. 217; p. 1193.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Research Company, New York, N. Y. Recovery of cuprous sulfid from ores, &c. No. 1,151,235; Aug. 24; Gaz. vol. 217; p. 1193.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Research Company, New York, N. Y. Metallurgy of copper. No. 1,151,236; Aug. 24; Gaz. vol. 217; p. 1194.
- Bacon, Raymond F., and B. H. Nicolet, Pittsburgh, Pa., assignors to Acme Manufacturing Company, Chicago, Ill. Manufacture of catalysts. No. 1,152,591; Sept. 7; Gaz. vol. 218; p. 79.
- Bacon, Raymond F., R. T. Brooks, and C. W. Clark, assignors to Gulf Refining Company, Pittsburgh, Pa. Manufacture of gasoline. No. 1,131,309; Mar. 9; Gaz. vol. 212; p. 543.
- Bacon, Reginald H. S., and J. H. Mansell, assignors to The Coventry Ordnance Works, Limited, Coventry, England. Fuse. No. 1,145,051; July 6; Gaz. vol. 216; p. 28.
- Bacon, Reginald H. S., and J. H. Mansell, assignors to The Coventry Ordnance Works, Limited, Coventry, England. Fuse. No. 1,161,147; Nov. 23; Gaz. vol. 220; p. 1095.

Alphabetical list of patentees—Continued.

- Bacus, Thomas E., Ada, Kans. Silo. No. 1,125,439; Jan. 19; Gaz. vol. 210; p. 869.
- Badcock, Edward B., London, England. Target. No. 1,165,487; Dec. 28; Gaz. vol. 221; p. 1086.
- Baddley, James. (See Levinstein and Baddley.)
- Bade, Heinrich, Jr., Wunstorf, Germany. Scaffold. No. 1,153,884; Sept. 21; Gaz. vol. 218; p. 611.
- Badeau, Charles C., Bethlehem, Pa., assignor to Roller-Smith Company. Time-limit circuit-breaker. No. 1,124,832; Jan. 12; Gaz. vol. 210; p. 617.
- Badeau, Harry U., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Panel-board fitting. No. 1,141,032; May 25; Gaz. vol. 214; p. 1271.
- Badeau, Isaac F. (See Patterson and Badeau.)
- Badeau, Louis C., New York, N. Y. Steering apparatus for airships. No. 1,155,031; Sept. 28; Gaz. vol. 218; p. 1030.
- Badeau, Louis C., New York, N. Y. Steering apparatus for airships. No. 1,156,514; Oct. 12; Gaz. vol. 219; p. 440.
- Badeker, John, assignor of fifteen one-hundredths to H. W. Harsch, Omaha, Nebr. Metallic packing for piston-rods. No. 1,134,091; Apr. 6; Gaz. vol. 213; p. 3.
- Baden, Ernest H. W., St. Joseph, Mo. Reinforcement for shirt-fronts. No. 1,125,440; Jan. 19; Gaz. vol. 210; p. 870.
- Bader, Gustav A., Rochester, and C. W. Howland, assignors to The Standard Optical Company, Geneva, N. Y. Lens centering, marking, and testing instrument. No. 1,134,938; Apr. 6; Gaz. vol. 213; p. 304.
- Bader, Gustav A., Rochester, and C. W. Howland, assignors to The Standard Optical Company, Geneva, N. Y. Lens-drilling machine. No. 1,141,859; June 1; Gaz. vol. 215; p. 269.
- Bader, Gustav A., Rochester, and C. W. Howland, assignors to The Standard Optical Company, Geneva, N. Y. Work-holder for lens-drilling machines. No. 1,162,327; Nov. 30; Gaz. vol. 220; p. 1556.
- Badger, Arthur C., Newton Center, Mass. Waste-outlet and stopper therefor. No. 1,163,582; Dec. 7; Gaz. vol. 221; p. 296.
- Badger Basket & Veneer Co. (See Wegwart, Herman, assignor.)
- Badger Brass Mfg. Co., The. (See Moru, Carl, assignor.)
- Badger Brass Mfg. Co., The. (See White, Walter H., assignor.)
- Badger Safety Razor Company. (See Petosky, Charles W., assignor.)
- Badger Steel House Company. (See Downey, Richard F., assignor.)
- Badgley, Jay T. (See Schell, Charles F., assignor.)
- Badham, Bertram G., Waikato, New Zealand. Ring-bearing-lubricating device. No. 1,152,872; Sept. 7; Gaz. vol. 218; p. 189.
- Badin, Adrien, assignor to Société Generale des Nitrures, Paris, France. Manufacture of aluminum nitrid. No. 1,143,482; June 15; Gaz. vol. 215; p. 916.
- Badische Anilin & Soda Fabrik. (See Bally, Oscar, assignor.)
- Badische Anilin & Soda Fabrik. (See Bohn, René, assignor.)
- Badische Anilin & Soda Fabrik. (See Boner, Johann H., assignor.)
- Badische Anilin & Soda Fabrik. (See Bosch, Carl, assignor.)
- Badische Anilin & Soda Fabrik. (See Bosch and Mittasch, assignors.)
- Badische Anilin & Soda Fabrik. (See Bosch and Wild, assignors.)
- Badische Anilin- & Soda-Fabrik. (See Bosch, Mittasch, Wolf, and Stern, assignors.)
- Badische Anilin & Soda Fabrik. (See Dehnel, Erich, assignor.)
- Badische Anilin & Soda Fabrik. (See Gaus, Wilhelm, assignor.)
- Badische Anilin & Soda Fabrik. (See Haber, Bosch, and Mittasch, assignors.)
- Badische Anilin & Soda Fabrik. (See Hutzler, Rudolf, assignor.)
- Badische Anilin & Soda Fabrik. (See Isler, Max H., assignor.)
- Badische Anilin & Soda Fabrik. (See Just and Eckhard, assignors.)
- Badische Anilin & Soda Fabrik. (See Mittasch and Schneider, assignors.)
- Badische Anilin & Soda Fabrik. (See Müller and Stober, assignors.)
- Badische Anilin & Soda Fabrik. (See Reindel, Hans, assignor.)
- Badische Anilin & Soda Fabrik. (See Wolff, Hugo, assignor.)
- Badische Company. (See Schutz, Otto, assignor.)
- Badols, Louis, Paris, France. Pressure-indicating means. No. 1,165,833; Dec. 28; Gaz. vol. 221; p. 1207.
- Baeder, Carl, Hoboken, N. J. Insulating-varnish. No. 1,149,171; Aug. 10; Gaz. vol. 217; p. 345.
- Baehr, Frederick G., New Baden, Ill. Combined book-support and leaf-turner. No. 1,151,647; Aug. 31; Gaz. vol. 217; p. 1379.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Phenolic condensation product. No. 1,133,083; Mar. 23; Gaz. vol. 212; p. 1267.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Making insoluble bodies derived from phenol alcohols. No. 1,146,045; July 13; Gaz. vol. 216; p. 395.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Insulating composition. No. 1,156,452; Oct. 12; Gaz. vol. 219; p. 417.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Making a plastic body. No. 1,160,362; Nov. 16; Gaz. vol. 220; p. 771.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Waterproof object or article. No. 1,160,363; Nov. 16; Gaz. vol. 220; p. 771.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Machine element. No. 1,160,364; Nov. 16; Gaz. vol. 220; p. 771.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Paper-like product and making the same. No. 1,160,365; Nov. 16; Gaz. vol. 220; p. 772.
- Baender, Charles L., Oakland, Cal., assignor, by mesne assignments, to National Sweeper Company, Torrington, Conn. Carpet-sweeping appliance. No. 1,138,437; May 4; Gaz. vol. 214; p. 252.
- Baer, Abraham L., Milwaukee, assignor of one-half to J. Falbe, Wauwatosa, Wis. Pipe. No. 1,148,494; Aug. 3; Gaz. vol. 217; p. 3.
- Baer, Clinton H., Shickshinny, Pa. Dish-washer. No. 1,140,561; May 25; Gaz. vol. 214; p. 1109.
- Baer, Henry, Cincinnati, Ohio. Envelop. No. 1,126,341; Jan. 26; Gaz. vol. 210; p. 1225.
- Baer, Herman A., Shickshinny, Pa. Fob-guard. No. 1,155,032; Sept. 28; Gaz. vol. 218; p. 1031.
- Baemie, John, Milwaukee, Wis. Clothes-line nolder. No. 1,140,787; May 25; Gaz. vol. 214; p. 1183.
- Baemler, Christian. (See Gewecke and Baemler.)
- Baezner, Carlo, assignor to E. De Haën, Chemische Fabrik List, G. m. b. H., Seelze, near Hannover, Germany. Opaque enamel or glaze composition. No. 1,153,748; Sept. 14; Gaz. vol. 218; p. 528.
- Bagby, William H., Los Angeles, Cal. Nutcracker. No. 1,146,683; July 13; Gaz. vol. 216; p. 618.
- Bager, Frederic E., South Milwaukee, Wis., assignor to F. C. Austin, Chicago, Ill. Bank-spud for barges or the like. No. 1,124,254; Jan. 12; Gaz. vol. 210; p. 408.
- Baggaley, Ralph, Pittsburgh, Pa. Treating ores. No. 1,135,488; Apr. 13; Gaz. vol. 213; p. 540.
- Baggaley, Ralph, Pittsburgh, Pa. Means for increasing the air-blast of converters and furnaces. No. 1,135,489; Apr. 13; Gaz. vol. 213; p. 541.
- Baggaley, Ralph, Pittsburgh, Pa. Mixing apparatus. No. 1,151,332; Aug. 24; Gaz. vol. 217; p. 1224.
- Baggaley, Ralph, Pittsburgh, Pa. Means for utilizing the heat of molten slag. No. 1,160,817; Nov. 16; Gaz. vol. 220; p. 935.
- Bagge, Gustaf F., assignor to Alphagraph Manufacturing Company, Chicago, Ill. Flash-lettering machine. No. 1,149,490; Aug. 10; Gaz. vol. 217; p. 459.
- Bagley, John N. (See Pfelderer and Bagley.)
- Bagley, Joseph P., Warwood, assignor to Wheeling Steel Casting Company, Wheeling, W. Va. Core-barrel for ingot-molds. No. 1,155,122; Sept. 28; Gaz. vol. 218; p. 1065.
- Bahls, Otto, New York, N. Y. Tire-grip. No. 1,145,876; July 13; Gaz. vol. 216; p. 335.
- Bahmuller, Wilhelm, Youngstown, Ohio. Plow. No. 1,166,169; Dec. 28; Gaz. vol. 221; p. 1327.
- Bahr, Amel F. and O. B., Marion, Ind. Shell-lining for paper-pulp-grinding mills. No. 1,133,215; Mar. 23; Gaz. vol. 212; p. 1314.
- Bahr, Amel F. and O. B., Marion, Ind. Shell-lining for paper-pulp-grinding mills. No. 1,152,690; Sept. 7; Gaz. vol. 218; p. 114.
- Bahr, Amel F. O. B., and W. F., Marion, Ind. Plug. No. 1,166,310; Dec. 28; Gaz. vol. 221; p. 1379.
- Bahr, Edwin, New York, N. Y. Pipe-joint. No. 1,134,092; Apr. 6; Gaz. vol. 213; p. 4.
- Bahr, Otto B. (See Bahr, Amel F. and O. B.)
- Bahr, Otto B. (See Bahr, Amel F., O. B., and W. F.)
- Bahr, Paul, Chicago, Ill. Life-preserver. No. 1,127,848; Feb. 9; Gaz. vol. 211; p. 456.
- Bahr, William F. (See Bahr, Amel F., O. B., and W. F.)
- Baier, Friedrich, Chicago, Ill., assignor, by mesne assignments, to The Swiss Magneto Company, Buffalo, N. Y. Magneto-electric machine. No. 1,161,434; Nov. 23; Gaz. vol. 220; p. 1199.
- Bailes, Stephen, Nettie, W. Va. Churn. No. 1,133,909; Mar. 30; Gaz. vol. 212; p. 1597.
- Bailey, Alfred J., Brixton, London, England. Packing for stuffing-boxes. No. 1,158,770; Nov. 2; Gaz. vol. 220; p. 127.
- Bailey, Alfred O., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Electric heater. No. 1,147,916; July 27; Gaz. vol. 216; p. 1096.
- Bailey, Alfred O., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Electric heater. No. 1,147,917; July 27; Gaz. vol. 216; p. 1096.

Alphabetical list of patentees—Continued.

- Bailey, Almont A., Jr., assignor of one-half to N. D. Stearns, Portland, Oreg. Faucet drinking-fountain. No. 1,146,766; July 13; Gaz. vol. 216; p. 646.
- Bailey, Archer N., assignor to Standard Company, Torrington, Conn. Thread-rolling device. No. 1,145,661; July 6; Gaz. vol. 216; p. 240.
- Bailey, Arlon D., assignor of one-third to A. C. Towne and one-third to C. T. Brown, Winchendon, Mass. Catch-basin. No. 1,141,678; June 1; Gaz. vol. 215; p. 211.
- Bailey, Auburn, Oakland, Cal. Gearing. No. 1,136,392; Apr. 20; Gaz. vol. 213; p. 901.
- Bailey, Auburn, Oakland, Cal. Shifting multiple-clutch device. No. 1,136,922; Apr. 27; Gaz. vol. 213; p. 1125.
- Bailey, Auburn, Oakland, Cal. Shock-absorber. No. 1,155,700; Oct. 5; Gaz. vol. 219; p. 131.
- Bailey, Benjamin F., Ann Arbor, Mich. Circuit-breaker. No. 1,141,300; June 1; Gaz. vol. 215; p. 76.
- Bailey, Charles H., Irving, Ill. Portable railway-crossing. No. 1,131,457; Mar. 9; Gaz. vol. 212; p. 595.
- Bailey, Charles L., Glen Ridge, N. J. Thread-gage. No. 1,138,438; May 4; Gaz. vol. 214; p. 253.
- Bailey, Charles L., Arthur Bay, Mich. Jointed pile. No. 1,138,924; May 11; Gaz. vol. 214; p. 460.
- Bailey, Clarence W. (See Lotz and Bailey.)
- Bailey, Daniel, assignor of one-half to E. D. Chilson, Tecumseh, Mich. Fastener. No. 1,150,482; Aug. 17; Gaz. vol. 217; p. 877.
- Bailey, De Witt C., Nichols, Fla. Hose-coupling. No. 1,143,020; June 15; Gaz. vol. 215; p. 754.
- Bailey, Ervin G., Newton, Mass. Pressure-relaxation gage. No. 1,153,413; Sept. 14; Gaz. vol. 218; p. 410.
- Bailey, Ervin G., Newton Highlands, Mass. Pressure-relaxation gage. No. 1,153,414; Sept. 14; Gaz. vol. 218; p. 411.
- Bailey, Fenner C., *et al.* (See Goldberg, Max, assignor.)
- Bailey, George D., assignor to Gearless Differential Co., Detroit, Mich. Releasing-clutch. No. 1,164,627; Dec. 21; Gaz. vol. 221; p. 747.
- Bailey, George W., assignor to Walsh's Holyoke Steam Boiler Works, Holyoke, Mass. Bench-leg. No. 1,141,083; May 25; Gaz. vol. 214; p. 1287.
- Bailey, Harriet and P. E., Hillsdale, Oreg. Non-puncturable tire. No. 1,148,427; July 27; Gaz. vol. 216; p. 1278.
- Bailey, Homer E., St. Louis, Mo. Ambulatory ankylosis and tendoo apparatus. No. 1,126,682; Feb. 2; Gaz. vol. 211; p. 5.
- Bailey, Howard C., Downingtown, Pa. Spring-tire. No. 1,123,466; Jan. 5; Gaz. vol. 210; p. 92.
- Bailey, Irving R., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Rubber heel. No. 1,141,227; June 1; Gaz. vol. 215; p. 48.
- Bailey, James G., Delavan, Ill. Hay-rack. No. 1,155,783; Oct. 5; Gaz. vol. 219; p. 159.
- Bailey, James G., Delavan, Ill. Ground-roller and clod-crusher. No. 1,162,015; Nov. 30; Gaz. vol. 220; p. 1447.
- Bailey, James H., New York, N. Y. Register. No. 1,142,792; June 15; Gaz. vol. 215; p. 674.
- Bailey, James H., Brooklyn, N. Y. Register. No. 1,143,800; June 22; Gaz. vol. 215; p. 1049.
- Bailey, John E., Milwaukee, Wis. Combination drafting implement. No. 1,139,746; May 18; Gaz. vol. 214; p. 785.
- Bailey, John G., assignor of one-third to W. Howell and one-third to C. H. Bence, East Liverpool, Ohio. Folding go-cart. No. 1,125,441; Jan. 19; Gaz. vol. 210; p. 870.
- Bailey, Joshua, West Bromwich, England. Ruling-machine. No. 1,157,361; Oct. 19; Gaz. vol. 219; p. 767.
- Bailey, Leroy E., Madera, Cal. Gate-latch. No. 1,140,562; May 25; Gaz. vol. 214; p. 1109.
- Bailey, Miles E., Washington, D. C. Elevating-truck. No. 1,146,779; July 20; Gaz. vol. 216; p. 671.
- Bailey, Nellie M., Kinsale, Va. Hook-and-eye fastening. No. 1,138,439; May 4; Gaz. vol. 214; p. 253.
- Bailey, Nelson B., and I. A. Lutz, San Francisco, Cal. Violin friction-peg. No. 1,128,835; Feb. 16; Gaz. vol. 211; p. 848.
- Bailey, Paris L., Indianapolis, Ind. Safety system for electric railways. No. 1,156,046; Oct. 12; Gaz. vol. 219; p. 277.
- Bailey, Pearl E. (See Bailey, Harriet and P. E.)
- Bailey, Raymond N., Muncy, Pa. Grinding-mill. No. 1,123,217; Jan. 5; Gaz. vol. 210; p. 4.
- Bailey, Robert L., assignor to A. L. MacLeod, Portland, Oreg. Clutch mechanism for motor-cycles. No. 1,145,225; July 6; Gaz. vol. 216; p. 87.
- Bailey, Van P., Indianapolis, Ind. Pumping apparatus. No. 1,140,939; May 25; Gaz. vol. 214; p. 1240.
- Bailey, Walter, Smith River, Cal. Ink-well. No. 1,141,753; June 1; Gaz. vol. 215; p. 235.
- Bailey, Warren E., Smith River, Cal. Garment-hanger. No. 1,126,342; Jan. 26; Gaz. vol. 210; p. 1225.
- Bailey, William, Birmingham, England, assignor, by mesne assignments, to Crown Cork & Seal Company, Baltimore, Md. Manufacture of stoppering crowns or caps for bottles. No. 1,136,393; Apr. 20; Gaz. vol. 213; p. 902.
- Bailey, William T., assignor of one-half to J. H. Barrett, Girard, Ohio. Manufacture of a cereal food. No. 1,165,646; Dec. 28; Gaz. vol. 221; p. 1143.
- Baille-Lemaire, Jean B., Paris, France. Telescope with variable magnification. No. 1,127,720; Feb. 9; Gaz. vol. 211; p. 409.
- Bailod, Charles M. J. (See Bials, Cambon, and Bailod.)
- Bain, Benjamin F., Pittsburgh, Pa. Mechanical toy. No. 1,140,788; May 25; Gaz. vol. 214; p. 184.
- Bain, Benjamin F., Pittsburgh, Pa. Mechanical toy. No. 1,151,919; Aug. 31; Gaz. vol. 217; p. 1473.
- Bain, Benjamin F., Pittsburgh, Pa. Apparatus for demonstrating toys. No. 1,162,546; Nov. 30; Gaz. vol. 220; p. 1630.
- Bain, David B. (See Keith and Bain.)
- Bain, Forée. (See Brunell, Frank J., assignor.)
- Bain, Forée, La Grange, Ill. Sheet-metal receptacle. No. 1,123,218; Jan. 5; Gaz. vol. 210; p. 5.
- Bain, Forée, La Grange, Ill., assignor to Federal Rubber Manufacturing Company, Milwaukee, Wis. Pneumatic tire. No. 1,132,998; Mar. 23; Gaz. vol. 212; p. 1237.
- Bain, Forée, assignor to C. A. Allen, Jr., La Grange, Ill. Clamp. No. 1,154,904; Sept. 28; Gaz. vol. 218; p. 987.
- Bainbridge-Bell, Eleanor L., Mount Bethel, Pa. Sanitary shield. No. 1,138,440; May 4; Gaz. vol. 214; p. 253.
- Bair, Alvin. (See Liversberger, Albert M., assignor.)
- Bair, Alvin, Tiffin, Ohio. Starter for automotors. No. 1,141,033; May 25; Gaz. vol. 214; p. 1271.
- Bair, George R., assignor of one-half to W. S. Allen, Belton, Mo. Resilient wheel. No. 1,137,375; Apr. 27; Gaz. vol. 213; p. 1291.
- Bair, George R., assignor of one-half to F. H. Bennett, Lawrence, Kans. Folding boat. No. 1,151,435; Aug. 24; Gaz. vol. 217; p. 1258.
- Baird, Archie M., Topeka, Kans. Portable pneumatic stay-bolt cutter. No. 1,129,267; Feb. 23; Gaz. vol. 211; p. 1036.
- Baird, Archie M., and H. D. Palmer, Topeka, Kans. Pneumatic trip. No. 1,143,346; June 15; Gaz. vol. 215; p. 869.
- Baird, Edward P., Evanston, Ill., assignor to W. T. Baird, New York, N. Y. Counter. No. 1,143,921; June 15; Gaz. vol. 215; p. 754.
- Baird, Edward P., Evanston, assignor to Baird Manufacturing Company, Chicago, Ill. Toll-telephone system. No. 1,149,614; Aug. 10; Gaz. vol. 217; p. 506.
- Baird, Edward P., Evanston, assignor to F. Gerlach, Chicago, Ill. Coin-controlled lock. No. 1,149,990; Aug. 10; Gaz. vol. 217; p. 642.
- Baird, Edward P., Evanston, assignor to The King Lock Company, Chicago, Ill. Key. No. 1,161,760; Nov. 23; Gaz. vol. 220; p. 1310.
- Baird, Jesse H. (See Peterson and Baird.)
- Baird, Joseph C., *et al.* (See MacPherson, John G., assignor.)
- Baird Manufacturing Company. (See Baird, Edward P., assignor.)
- Baird, Myron T., St. Louis, Mo. Governor for automobile-engines and the like. No. 1,143,347; June 15; Gaz. vol. 215; p. 869.
- Baird, William J., Detroit, Mich. Molding-machine. No. 1,137,946; May 4; Gaz. vol. 214; p. 78.
- Baird, William T. (See Baird, Edward P., assignor.)
- Baisley, Reuben T., Billerica, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stopping mechanism. No. 1,158,619; Nov. 2; Gaz. vol. 220; p. 74.
- Bajohr, William, St. Louis, Mo. Device for protecting structures from lightning-strokes. No. 1,162,437; Nov. 30; Gaz. vol. 220; p. 1593.
- Baker, Abner D., Swanton, Ohio. Engine. No. 1,145,177; July 6; Gaz. vol. 216; p. 70.
- Baker, Arthur B., East Orange, N. J. Four-cycle gasoline-engine. No. 1,146,990; July 20; Gaz. vol. 216; p. 746.
- Baker, Augustus H. (See Duffy, Thomas L., assignor.)
- Baker, Bryon G., assignor to M. Rumely Company, La Porte, Ind. Wheel. No. 1,133,353; Mar. 30; Gaz. vol. 212; p. 1399.
- Baker, Bryon G., assignor to M. Rumely Company, La Porte, Ind. Carbureter. No. 1,142,793; June 15; Gaz. vol. 215; p. 674.
- Baker, Bryon G., assignor to M. Rumely Company, La Porte, Ind. Wheel. No. 1,151,988; Aug. 31; Gaz. vol. 217; p. 1497.
- Baker, Charles E., and E. M. De Long, Hartford, assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn. Motor-vehicle frame. No. 1,125,442; Jan. 19; Gaz. vol. 210; p. 870.
- Baker, Charles E., and E. M. De Long, Hartford, assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn. Transmission mechanism. No. 1,126,175; Jan. 26; Gaz. vol. 210; p. 1166.
- Baker, Charles E., and E. M. De Long, Hartford, assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn. Take-up for flexible connections. No. 1,126,176; Jan. 26; Gaz. vol. 210; p. 1166.
- Baker, Charles E., and E. M. De Long, Hartford, assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn. Internal-combustion engine. No. 1,138,831; May 11; Gaz. vol. 214; p. 429.

Alphabetical list of patentees—Continued.

- Baker, Charles E., and E. M. De Long, Hartford, assignors, by mesne assignments, to The New Britain Machine Company, New Britain, Conn. Explosive-engine. No. 1,154,475; Sept. 21; Gaz. vol. 218; p. 813.
- Baker, Charles F., *et al.* (See Rogers, John T., assignor.)
- Baker, Charles H., Pittsburgh, Pa. Spraying device. No. 1,154,833; Sept. 28; Gaz. vol. 218; p. 964.
- Baker, Charles W., Montclair, N. J. Method of and apparatus for delivering liquid fuel to oil-engines. No. 1,149,321; Aug. 10; Gaz. vol. 217; p. 401.
- Baker, Charles W., Montclair, N. J. Method of and apparatus for feeding liquid fuel to internal-combustion engines. No. 1,149,322; Aug. 10; Gaz. vol. 217; p. 401.
- Baker, Charles W., Montclair, and J. J. Swan, Plainfield, N. J. Apparatus for feeding fuel to oil-engines. No. 1,149,323; Aug. 10; Gaz. vol. 217; p. 401.
- Baker & Co. (See Zimmermann, Fritz, assignor.)
- Baker, Commodore P., St. Catherine, Mo. Wrench. No. 1,136,755; Apr. 20; Gaz. vol. 213; p. 1030.
- Baker, David, Los Angeles, Cal. Signal apparatus. No. 1,154,162; Sept. 21; Gaz. vol. 218; p. 705.
- Baker, Dexter C., and H. F. Hansen, Oakland, assignors to Baker-Hansen Manufacturing Company, East Oakland, Cal. Rotary pump. No. 1,123,977; Jan. 5; Gaz. vol. 210; p. 264.
- Baker, Dexter C., and H. F. Hansen, Oakland, assignors to Baker-Hansen Manufacturing Company, East Oakland, Cal. Rotary pump. No. 1,136,756; Apr. 20; Gaz. vol. 213; p. 1030.
- Baker, Elbert C. (See Williams and Baker.)
- Baker, Erle K. (See Hawley and Baker.)
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable rim for automobile-wheels. No. 1,140,652; May 25; Gaz. vol. 214; p. 1139.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Pneumatic-tire mounting. No. 1,155,394; Oct. 5; Gaz. vol. 219; p. 24.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Vehicle-wheel. No. 1,155,395; Oct. 5; Gaz. vol. 219; p. 25.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Mounting for tires. No. 1,155,396; Oct. 5; Gaz. vol. 219; p. 25.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Vehicle-wheel. No. 1,155,397; Oct. 5; Gaz. vol. 219; p. 25.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable rim for automobile-wheels. No. 1,155,398; Oct. 5; Gaz. vol. 219; p. 26.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Vehicle-wheel. No. 1,159,313; Nov. 2; Gaz. vol. 220; p. 315.
- Baker, Frank R. (See Woodard, William H., assignor.)
- Baker, Frank E., Birmingham, England. Internal-combustion engine. No. 1,132,425; Mar. 16; Gaz. vol. 212; p. 977.
- Baker, Frank E., Royal Oak, Mich., assignor to Detroit Tractor Company, La Fayette, Ind. Control mechanism. No. 1,127,160; Feb. 2; Gaz. vol. 211; p. 175.
- Baker, Frederick W., Pittsburg, Kans. Check-holder. No. 1,131,591; Mar. 9; Gaz. vol. 212; p. 640.
- Baker, George, *et al.* (See Bourke, Martin, assignor.)
- Baker, George H., Idaho Falls, Idaho. Lamp. No. 1,127,577; Feb. 9; Gaz. vol. 211; p. 359.
- Baker, George R. (See Baker, George S. and G. R.)
- Baker, George S., London, England. Baker's oven. No. 1,141,599; June 1; Gaz. vol. 215; p. 183.
- Baker, George S., London, England. Apparatus for proving dough preparatory to baking. No. 1,141,600; June 1; Gaz. vol. 215; p. 183.
- Baker, George S., London, England. Baker's oven. No. 1,141,601; June 1; Gaz. vol. 215; p. 184.
- Baker, George S. and G. R., London, England. Machine for dividing dough and like plastic substances. No. 1,162,898; Dec. 7; Gaz. vol. 221; p. 57.
- Baker, George W., assignor to G. W. Baker Machine Company, Wilmington, Del. Seasoning-machine. No. 1,162,547; Nov. 30; Gaz. vol. 220; p. 1630.
- Baker, Gwyn H. (See Baker, James B., G. H., and N. D.)
- Baker-Hansen Manufacturing Company. (See Baker and Hansen, assignors.)
- Baker, Howard H. (See Baker, Ransom R., assignor.)
- Baker, James A., Mutual, Okla. Header attachment for engines. No. 1,154,595; Sept. 28; Gaz. vol. 218; p. 883.
- Baker, James B., G. H., and N. D., Oakland, Cal. Indicator. No. 1,124,100; Jan. 5; Gaz. vol. 210; p. 306.
- Baker, James M., Providence, R. I. Play-pipe for use with fire-hose. No. 1,132,899; Mar. 23; Gaz. vol. 212; p. 1199.
- Baker, John S., Peekskill, N. Y. Convertible toy-box. No. 1,131,894; Mar. 16; Gaz. vol. 212; p. 784.
- Baker, John T., Los Angeles, Cal. Automobile-tire. No. 1,146,747; July 13; Gaz. vol. 216; p. 640.
- Baker, Joseph G., Allentown, assignor to J. E. Durham, Philadelphia, Pa. Lost-motion take-up for tools. No. 1,141,602; June 1; Gaz. vol. 215; p. 184.
- Baker, Lee H. (See Dickel and Baker.)
- Baker, Louis H., Evansville, assignor of one-half to W. M. Smith, Vanderburg county, Ind. Pocket. No. 1,161,435; Nov. 23; Gaz. vol. 220; p. 1200.
- Baker Manufacturing Company, The. (See Osten, James H., assignor.)
- Baker, Max L. (See Hemming and Baker.)
- Baker Motor Vehicle Company, The. (See Gruenfeldt, Emil, assignor.)
- Baker, Ned D. (See Baker, James B., G. H., and N. D.)
- Baker, Nelson M., Southbridge, Mass. Guard. No. 1,132,760; Mar. 23; Gaz. vol. 212; p. 1149.
- Baker, Paul S. (See Vance and Baker.)
- Baker, Ralph B., Galion, Ohio. License-plate carrier and signal. No. 1,163,199; Dec. 7; Gaz. vol. 221; p. 163.
- Baker, Ralph M., Alliance, and J. Datus, Westerville, Nebr. Hay-retainer for hay-stackers. No. 1,163,123; Dec. 7; Gaz. vol. 221; p. 135.
- Baker, Ransom R., assignor to H. H. Baker, Buffalo, N. Y. Nursing-bottle. No. 1,166,406; Dec. 28; Gaz. vol. 221; p. 1414.
- Baker, Reuben C., Coalinga, Cal. Anchor for well-tubing. No. 1,140,789; May 25; Gaz. vol. 214; p. 1184.
- Baker, Reuben C., Coalinga, Cal. Calf and bull wheel bearing. No. 1,155,539; Oct. 5; Gaz. vol. 219; p. 76.
- Baker, Robert D., Detroit, Mich. Apparatus for installing pavement-joints. No. 1,127,378; Feb. 2; Gaz. vol. 211; p. 248.
- Baker, Robert J., Denver, Colo. Seal. No. 1,163,124; Dec. 7; Gaz. vol. 221; p. 135.
- Baker, Rollyn H., Dayton, Ohio. Box-opener. No. 1,140,016; May 18; Gaz. vol. 214; p. 882.
- Baker Steel Tie Corporation. (See Baker, William F., assignor.)
- Baker, Thomas W. (See Magee, Frederick W., assignor.)
- Baker, Walter C., assignor to The American Ball Bearing Company, Cleveland, Ohio. Brake mechanism. No. 1,132,540; Mar. 16; Gaz. vol. 212; p. 1020.
- Baker, Walter C., assignor to The American Ball Bearing Company, Cleveland, Ohio. Brake mechanism. No. 1,132,541; Mar. 16; Gaz. vol. 212; p. 1020.
- Baker, William, Birmingham, England. Drop-down small-arm. No. 1,125,633; Jan. 19; Gaz. vol. 210; p. 937.
- Baker, William A., Georgetown, Tex. Cotton-chopper. No. 1,131,028; Mar. 9; Gaz. vol. 212; p. 447.
- Baker, William F., assignor to Baker Steel Tie Corporation, Oklahoma, Okla. Rail tie and fastener. No. 1,158,423; Nov. 2; Gaz. vol. 220; p. 4.
- Baker, William G. (See Spurgeon, Hunt, and Baker.)
- Baker, William J. (See Gates, Frank M., assignor.)
- Baker, Wm. B. (See Knight, Henry C., assignor.)
- Bakevich, Anthony G., New Britain, Conn. Belt-dressing. No. 1,137,450; Apr. 27; Gaz. vol. 213; p. 1317.
- Bakken, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Centrifugal clutch. No. 1,135,092; Apr. 13; Gaz. vol. 213; p. 405.
- Bakken, Thore A., Hartland, Wis. Cockeye. No. 1,124,686; Jan. 12; Gaz. vol. 210; p. 565.
- Balaban, Marcar, West Didsbury, Manchester, England. Copy-holder for type-writing machines. No. 1,135,751; Apr. 13; Gaz. vol. 213; p. 634.
- Balaban, Marcar, West Didsbury, Manchester, England. Copyholder for type-writing machines. No. 1,135,752; Apr. 13; Gaz. vol. 213; p. 634.
- Balachowsky, Dimitry, and P. Calre, Neuilly-sur-Seine, France. Dynamo-electric machine. No. 1,133,834; Mar. 30; Gaz. vol. 212; p. 1572.
- Balanced Chute Dump Car Company. (See Frede and Dinkel, assignors.)
- Balassa, Frederick, assignor to Societe Anonyme Hongroise de Banque et de Commerce, Budapest, Austria-Hungary. Portable gas-producer. No. 1,134,580; Apr. 6; Gaz. vol. 213; p. 181.
- Balassa, Friedrich, assignor to Magyar Kir.-Allami Vasgyarak Központi Igazgatósága, Budapest, Austria-Hungary. Starting device for internal-combustion engines. No. 1,136,394; Apr. 20; Gaz. vol. 213; p. 902.
- Balassa, Friedrich, assignor to Magyar Kir.-Allami Vasgyarak Központi Igazgatósága, Budapest, Austria-Hungary. Carburetor. No. 1,151,989; Aug. 31; Gaz. vol. 217; p. 1497.
- Balcanaul, John, Poughkeepsie, N. Y. Ash sifter and can. No. 1,162,280; Nov. 30; Gaz. vol. 220; p. 1540.
- Balch, Milton H., and F. Lange, Chicago, Ill.; said Lange assignor to said Balch. Holder for paper bags and the like. No. 1,131,310; Mar. 9; Gaz. vol. 212; p. 544.
- Balcke, Walter H., Winchester, Mass. Dancing toy figure. No. 1,131,895; Mar. 16; Gaz. vol. 212; p. 784.
- Balcome, Herbert A., Boston, assignor to The Holtzer-Cabot Electric Company, Brookline, Mass. Electric motor or generator. No. 1,141,860; June 1; Gaz. vol. 215; p. 269.
- Balden, Frank E., Northville, Mich. Branding-iron. No. 1,148,819; Aug. 3; Gaz. vol. 217; p. 120.
- Baldrige, Charles W., Chicago, Ill. Contour-recorder. No. 1,154,596; Sept. 28; Gaz. vol. 218; p. 883.
- Baldwin, Allen T., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Arc-lamp electrode. No. 1,127,578; Feb. 9; Gaz. vol. 211; p. 359.
- Baldwin, Arthur H., Norwalk, Conn. Filtering apparatus. No. 1,135,753; Apr. 13; Gaz. vol. 213; p. 634.
- Baldwin, Arthur J., East Orange, N. J., assignor to Mississippi Wire Glass Company, New York, N. Y. Single-strand-wire-glass machine. No. 1,144,976; June 29; Gaz. vol. 215; p. 1484.

Alphabetical list of patentees—Continued.

- Baldwin, Arthur L., assignor to Detroit Steel Products Company, Detroit, Mich. Spacing-clip for double-pane windows. No. 1,129,839; Mar. 2; Gaz. vol. 212; p. 3.
- Baldwin, Charles F. (See Reynolds and Baldwin.)
- Baldwin Company, The. (See Gally, Robert A., assignor.)
- Baldwin, Dennis. (See Hohl and Baldwin.)
- Baldwin, Edward C., Boston, Mass. Folding drinking-cup. No. 1,129,778; Feb. 23; Gaz. vol. 211; p. 1210.
- Baldwin, Edwin J. (See Bowlin, Elihu, assignor.)
- Baldwin, Ernest, Salt Lake City, Utah. Hose-coupling. No. 1,127,579; Feb. 9; Gaz. vol. 211; p. 360.
- Baldwin, Ferdinand, near North Hampton, assignor of one-half to H. L. Heistand, Clark county, Ohio. Soli-pulverizer. No. 1,156,873; Oct. 19; Gaz. vol. 219; p. 593.
- Baldwin, George W., and P. H. Stapley, assignors to The Coe-Stapley Manufacturing Company, Bridgeport, Conn. Compound air-pump. No. 1,149,324; Aug. 10; Gaz. vol. 217; p. 402.
- Baldwin, Guy, Mark Center, assignor of one-half to A. Clark, Latty, Ohio. Disk-jointer. No. 1,163,200; Dec. 7; Gaz. vol. 221; p. 163.
- Baldwin, Henry G., San Francisco, Cal. Electrically-controlled change-speed mechanism. No. 1,130,134; Mar. 2; Gaz. vol. 212; p. 102.
- Baldwin, James H., Englewood, N. J., assignor to Dulles-Baldwin Electric Drill Company, New York, N. Y. Impact mechanism. No. 1,159,462; Nov. 9; Gaz. vol. 220; p. 400.
- Baldwin, James L., Chicago, Ill. Parcel-carrier. No. 1,165,565; Dec. 28; Gaz. vol. 221; p. 1112.
- Baldwin Locomotive Works, The. (See Austin, William A., assignor.)
- Baldwin Locomotive Works, The. (See Bullock, Samuel A., assignor.)
- Baldwin Locomotive Works, The. (See Henderson, George R., assignor.)
- Baldwin Locomotive Works, The. (See Rushton, Kenneth, assignor.)
- Baldwin Locomotive Works, The. (See Shannon, Elwood M., assignor.)
- Baldwin Locomotive Works, The. (See Van Kirk, Benjamin R., assignor.)
- Baldwin Locomotive Works, The. (See Vauclain, Charles P., assignor.)
- Baldwin Locomotive Works, The. (See Vauclain and Rushton, assignors.)
- Baldwin Locomotive Works. (See Walker, Thomas H., assignor.)
- Baldwin Locomotive Works, The. (See Wallace, Allen, assignor.)
- Baldwin Locomotive Works, The. (See Wille, Henry V., assignor.)
- Baldwin, Luther C., Providence, R. I., and J. N. Anderson, Lawrence, Mass., assignors to U. S. Bobbin & Shuttle Company, Providence, R. I. Protecting-ferrule for bobbins. No. 1,145,662; July 6; Gaz. vol. 216; p. 241.
- Baldwin, Merrill H., San Diego, Cal. Sanitary toilet attachment. No. 1,149,109; Aug. 3; Gaz. vol. 217; p. 218.
- Baldwin, Nathaniel, Mill Creek, Utah. Head-band for telephone-receivers. No. 1,127,161; Feb. 2; Gaz. vol. 211; p. 175.
- Baldwin, Nathaniel, Mill Creek, Utah. Telephone-receiver. No. 1,153,593; Sept. 14; Gaz. vol. 218; p. 475.
- Baldwin, Nathaniel, Midway, Utah. Governor mechanism. No. 1,130,659; Mar. 2; Gaz. vol. 212; p. 285.
- Baldwin, Otis N., Baxter Springs, Kans. Clutch mechanism. No. 1,130,788; Mar. 9; Gaz. vol. 212; p. 364.
- Baldwin, Percy M., *et al.* (See Hume, Walter E., assignor.)
- Baldwin, Reese P., Collegeville, Pa. Manual motor. No. 1,150,410; Aug. 17; Gaz. vol. 217; p. 851.
- Baldwin, Robert T., Klamath Falls, Oreg. Spraying device. No. 1,163,635; Dec. 14; Gaz. vol. 221; p. 359.
- Baldwin, Samuel J., Tacoma, and J. W. Sly, Eatonville, Wash. Thrust-pin for winding-drums. No. 1,129,441; Feb. 23; Gaz. vol. 211; p. 1097.
- Baldwin, Walter A. (See Albrecht, Nunnally H., assignor.)
- Baldwin, William D., New York, and A. Sundh, Yonkers, N. Y. Tree-cutting device. No. 1,127,347; Feb. 2; Gaz. vol. 211; p. 237.
- Baldwin, William D., New York, and G. John, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Safety device. No. 1,159,563; Nov. 9; Gaz. vol. 220; p. 435.
- Bale, Damon, Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Collapsible spacing-frame. No. 1,154,688; Sept. 28; Gaz. vol. 218; p. 916.
- Bales, James E., Montgomery, assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,140,940; May 25; Gaz. vol. 214; p. 1240.
- Balès, Jean J. F., Talence, France. Drying apparatus. No. 1,166,311; Dec. 28; Gaz. vol. 221; p. 1380.
- Bales, William S., Kopperl, Tex. Self-dumping drag-harrow. No. 1,156,968; Oct. 19; Gaz. vol. 219; p. 628.
- Ball, Albert, Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Mining-machine. No. 1,149,110; Aug. 3; Gaz. vol. 217; p. 218.
- Ball, Albert, and H. H. Mercer, Claremont, N. H., assignors, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Channeling-machine. No. 1,130,660; Mar. 2; Gaz. vol. 212; p. 286.
- Ball, Albert, and H. H. Mercer, Claremont, N. H., assignors, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Tool-actuating mechanism. No. 1,160,683; Nov. 16; Gaz. vol. 220; p. 888.
- Ball, Albert P., Detroit, Mich., assignor of one-half to Hudson Motor Car Company and one-half to Detroit Body Co. Wind-shield pivot. No. 1,143,932; June 22; Gaz. vol. 215; p. 1094.
- Ball, Benjamin A. (See Mettler, Caspar, assignor.)
- Ball, Benjamin A. (See Sévigné and Dooley, assignors.)
- Ball, Bert C., Portland, Oreg. Pulley-block. No. 1,145,110; July 6; Gaz. vol. 216; p. 49.
- Ball, Bert C., Portland, Oreg. Traction-engine. No. 1,162,208; Nov. 30; Gaz. vol. 220; p. 1514.
- Ball, Bert C., Portland, Oreg. Aerial conveyor system. No. 1,164,628; Dec. 21; Gaz. vol. 221; p. 748.
- Ball, Bert C., and L. E. Younie, Portland, Oreg. Demountable tire-rim. No. 1,157,141; Oct. 19; Gaz. vol. 219; p. 689.
- Ball Brothers Glass Manufacturing Company. (See Birmingham, Alvah L., assignor.)
- Ball, Calvin C., Huntington, W. Va. Dental tool. No. 1,147,594; July 20; Gaz. vol. 216; p. 957.
- Ball, Charles E. (See Dwyer, Richard B., assignor.)
- Ball Engine Company. (See Armstrong, Edwin J., assignor.)
- Ball Engine Company. (See Weston, Clarence B., assignor.)
- Ball, Frederick, *et al.* (See Jackson, John S., assignor.)
- Ball Grain Explosives Company. (See Du Pont, Ernest, assignor.)
- Ball Grain Explosives Company. (See Du Pont, Francis I., assignor.)
- Ball, Harry, assignor to Worcester Manufacturing Company, Worcester, Mass. Door-check. No. 1,133,453; Mar. 30; Gaz. vol. 212; p. 1434.
- Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Electric flat-iron. No. 1,132,299; Mar. 16; Gaz. vol. 212; p. 933.
- Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Electric flat-iron. No. 1,149,172; Aug. 10; Gaz. vol. 217; p. 345.
- Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Resistance element. No. 1,149,173; Aug. 10; Gaz. vol. 217; p. 345.
- Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Attaching-plug. No. 1,154,834; Sept. 28; Gaz. vol. 218; p. 965.
- Ball, Henry P., Pittsfield, Mass., assignor to General Electric Company. Electric percolator. No. 1,160,684; Nov. 16; Gaz. vol. 220; p. 888.
- Ball, Henry P., New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Lamp attachment for culinary articles. No. 1,155,033; Sept. 28; Gaz. vol. 218; p. 1031.
- Ball, Herman F., New York, N. Y. Chafing device for railway draft-gear. No. 1,130,462; Mar. 2; Gaz. vol. 212; p. 218.
- Ball, Herman F., New York, N. Y., and H. R. Stafford, Plainfield, N. J. Steam-engine cylinder. No. 1,151,237; Aug. 24; Gaz. vol. 217; p. 1194.
- Ball, Horace D., and J. I. Floyd, assignors of one-fourth to H. R. Gray and one-fourth to J. F. Murray, Beloit, Wis. Speedometer. No. 1,126,683; Feb. 2; Gaz. vol. 211; p. 5.
- Ball, Horace D., J. I. Floyd, and L. S. Carr, Beloit, Wis. Direction-indicator. No. 1,126,634; Feb. 2; Gaz. vol. 211; p. 5.
- Ball, J. C., *et al.* (See Paprian, Ignace, assignor.)
- Ball, John P., Chicago, Ill. System of separating sewage. No. 1,154,597; Sept. 28; Gaz. vol. 218; p. 883.
- Ball, Joseph E. (See Vogel, Lobdell, and Ball.)
- Ball, Joseph E., Syracuse, N. Y. Stamp-canceling device. No. 1,145,052; July 6; Gaz. vol. 216; p. 28.
- Ball, Louis R., U. S. Army. Hat-fastener. No. 1,124,385; Jan. 12; Gaz. vol. 210; p. 456.
- Ball, Ralph L., South Berwick, Me. Fire-escape. No. 1,135,248; Apr. 13; Gaz. vol. 213; p. 456.
- Ball, Robert, Philadelphia, Pa., assignor to The International Pneumatic Tube Company. Control for pneumatic-despatch apparatus. No. 1,124,255; Jan. 12; Gaz. vol. 210; p. 408.
- Ball, Rodney W., Purcellville, Va. Stock. No. 1,163,500; Dec. 7; Gaz. vol. 221; p. 267.
- Ball, Rufus E., Webb City, Mo. Mineral-faucet. No. 1,135,345; Apr. 13; Gaz. vol. 213; p. 490.
- Ball, Silas, West Orange, N. J. Cord and twine cutter. No. 1,158,159; Oct. 26; Gaz. vol. 219; p. 1109.
- Ball, Thomas G. (See Branch and Ball.)
- Ballantine, Noten D., Chicago, Ill. Interchange-car-report blank. No. 1,155,540; Oct. 5; Gaz. vol. 219; p. 76.
- Ballard Drop-Forge Company. (See Haley, Thomas H., assignor.)
- Ballard, George. (See Ballard, Walter, assignor.)
- Ballard, George L. (See Wildman and Ballard.)
- Ballard, George L., Norristown, Pa., assignor to Wildman Mfg. Co. Dogless circular-knitting machine. No. 1,140,790; May 25; Gaz. vol. 214; p. 1185.

Alphabetical list of patentees—Continued.

- Ballard, Harrie A., Boston, assignor to The Boylston Mfg. Company, South Boston, Mass. Welt-sewing machine. No. 1,125,038; Jan. 19; Gaz. vol. 210; p. 724.
- Ballard, Harrie A., Boston, assignor to The Boylston Mfg. Company, South Boston, Mass. Thread-clamp for shoe sewing-machines. No. 1,127,719; Feb. 9; Gaz. vol. 211; p. 409.
- Ballard, Harrie A., Boston, assignor to The Boylston Mfg. Company, South Boston, Mass. Presser-foot mechanism. No. 1,139,626; May 18; Gaz. vol. 214; p. 743.
- Ballard, Harrie A., Boston, assignor to The Boylston Manufacturing Company, South Boston, Mass. Lock-stitch shoe-sewing machine. No. 1,142,391; June 8; Gaz. vol. 215; p. 496.
- Ballard, Harrie A., Boston, assignor to The Boylston Manufacturing Company, South Boston, Mass. Shoe-sewing machine. No. 1,158,771; Nov. 2; Gaz. vol. 220; p. 127.
- Ballard, Harrie A., Ashland, assignor, by mesne assignments, to The Boylston Manufacturing Company, Boston, Mass. Lasting-machine. No. 1,131,983; Mar. 16; Gaz. vol. 212; p. 817.
- Ballard & Holliday. (See Dodson, Samuel C., assignor.)
- Ballard, James L. G., Wadeville, N. C. Car-coupling. No. 1,125,252; Jan. 19; Gaz. vol. 210; p. 803.
- Ballard, Leavi S., Holstein, Iowa. Hay-sling. No. 1,135,249; Apr. 13; Gaz. vol. 213; p. 457.
- Ballard, Leavi S., Holstein, Iowa. Agricultural implement. No. 1,136,579; Apr. 20; Gaz. vol. 213; p. 968.
- Ballard, Milton H., Lynn, Mass., assignor to Tripp Fruit Wrapping Machine Company, San Francisco, Cal. Label-affixing device. No. 1,136,757; Apr. 20; Gaz. vol. 213; p. 1031.
- Ballard, Milton H., Lynn, Mass., assignor to Tripp Fruit Wrapping Machine Company, San Francisco, Cal. Label-cutting machine. No. 1,136,758; Apr. 20; Gaz. vol. 213; p. 1448.
- Ballard, Milton H., Lynn, Mass., assignor to Federal Manufacturing Company, San Francisco, Cal. Printing mechanism. No. 1,162,016; Nov. 30; Gaz. vol. 220; p. 1448.
- Ballard, Nicholas G., Chicago, Ky. Combined robe and whip lock. No. 1,161,588; Nov. 23; Gaz. vol. 220; p. 1252.
- Ballard, Sylvester, Cloverdale, W. Va. Saw-set. No. 1,131,105; Mar. 9; Gaz. vol. 212; p. 473.
- Ballard, Walter, assignor of one-half to G. Ballard, Oakland, Cal. Valve. No. 1,140,017; May 18; Gaz. vol. 214; p. 882.
- Ballard, Wiley P., Birmingham, Ala. Curtain drier and stretcher. No. 1,162,738; Dec. 7; Gaz. vol. 221; p. 3.
- Ballauf, Daniel, deceased, Washington, D. C.; A. W. C. Wurdeman, administrator. Navigational sounding apparatus. No. 1,153,885; Sept. 21; Gaz. vol. 218; p. 612.
- Ballet, Ray, West Hazleton, Pa. Insulator. No. 1,149,017; Aug. 3; Gaz. vol. 217; p. 189.
- Ballman, Edwin C., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current rectifier. No. 1,131,896; Mar. 16; Gaz. vol. 212; p. 784.
- Ballico, Alberto, assignor to Itala Fabbrica Di Automobili, Turin, Italy. Combustion-engine. No. 1,124,193; Jan. 5; Gaz. vol. 210; p. 339.
- Ballou, Charles E., assignor to Ballou Safety Rail-Joint Co., Inc., Roanoke, Va. Insulated rail-joint. No. 1,164,974; Dec. 21; Gaz. vol. 221; p. 869.
- Ballou, Eugene H., Pawtucket, R. I., assignor to Draper Company, Hopedale, Mass. Thread-cutter for the depleted web of weft-replenishing looms. No. 1,138,272; May 4; Gaz. vol. 214; p. 192.
- Ballou, Holden P., assignor to W. S. Schutz, trustee, Hartford, Conn. Pneumatic piano-player. No. 1,136,923; Apr. 27; Gaz. vol. 213; p. 1125.
- Ballou, Holden P., assignor to W. S. Schutz, trustee, Hartford, Conn. Automatic piano-player. No. 1,136,924; Apr. 27; Gaz. vol. 213; p. 1126.
- Ballou, Holden P., assignor to W. S. Schutz, trustee, Hartford, Conn. Valve mechanism. No. 1,157,972; Oct. 26; Gaz. vol. 219; p. 1044.
- Ballou, Leon H., Lockport, N. Y. Dispensing-receptacle for paste, &c. No. 1,154,163; Sept. 21; Gaz. vol. 218; p. 706.
- Ballou Safety Rail-Joint Co. (See Ballou, Charles E., assignor.)
- Bally, Oscar, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Vat dyes. No. 1,128,836; Feb. 16; Gaz. vol. 211; p. 849.
- Balmer, Thomas J., Boone, Iowa. Emergency-truck. No. 1,152,265; Aug. 31; Gaz. vol. 217; p. 1592.
- Balogh, Maria, Bessemer, Mich. Hat-fastener. No. 1,151,852; Aug. 31; Gaz. vol. 217; p. 1451.
- Balough, Charles, assignor to The Kelly-Springfield Motor Truck Company, Springfield, Ohio. Engine-governor. No. 1,137,110; Apr. 27; Gaz. vol. 213; p. 1193.
- Balough, Charles, assignor to The Kelly-Springfield Motor Truck Company, Springfield, Ohio. Oiling device. No. 1,137,111; Apr. 27; Gaz. vol. 213; p. 1194.
- Bals, Anthony F. (See Warren and Bals.)
- Balsley, Eugene A., Chicago, Ill. Belt-shifting mechanism. No. 1,131,195; Mar. 9; Gaz. vol. 212; p. 504.
- Baltes, John, New York, N. Y. Burglar-alarm lock. No. 1,130,152; May 11; Gaz. vol. 214; p. 543.
- Balthazar, Ernest, Pawnee, La. Cork-extractor. No. 1,155,193; Sept. 28; Gaz. vol. 218; p. 1089.
- Balthazar, Rosalie D., Pawnee, La. Shoe-polisher. No. 1,135,871; Apr. 13; Gaz. vol. 213; p. 676.
- Baltimore Tube Company. (See Brinkman, Louis H., assignor.)
- Baltin, Otto, Lipline, Germany. Production of zinc. No. 1,166,170; Dec. 28; Gaz. vol. 221; p. 1328.
- Baltin, Otto, Lipline, Germany. Smelting metallic ores. No. 1,166,171; Dec. 28; Gaz. vol. 221; p. 1328.
- Baltzley, Edwin, Wechawken, assignor to E. D. Farmer, trustee, Montclair, N. J. Culinary beater. No. 1,165,307; Dec. 21; Gaz. vol. 221; p. 984.
- Baltzley, Louis E., Washington, D. C. Paper-binding clip. No. 1,139,627; May 18; Gaz. vol. 214; p. 744.
- Balz, Robert J., assignor of one-half to G. C. Meyer, Syracuse, N. Y. Internal-combustion engine. No. 1,154,958; Sept. 28; Gaz. vol. 218; p. 1006.
- Balzer, Frederick. (See Bezold, John E., assignor.)
- Balzer, Fritz, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Reversing mechanism for cylinder washing-machines. No. 1,151,990; Aug. 31; Gaz. vol. 217; p. 1497.
- Balzer, Fritz, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Reversing mechanism for electrically-driven washing-machines. No. 1,151,991; Aug. 31; Gaz. vol. 217; p. 1498.
- Balzer, Fritz, Chicago, Ill., assignor to Troy Laundry Machinery Company, Ltd. Centrifugal extractor. No. 1,152,266; Aug. 31; Gaz. vol. 217; p. 1592.
- Balzer & Son. (See Balzer, Stephen M., assignor.)
- Balzer, Stephen M., assignor to Balzer & Son, Andover, N. J. Transmission-gearing. No. 1,151,648; Aug. 31; Gaz. vol. 217; p. 1379.
- Bambeck, Edward, assignor to American Sign Company, Kalamazoo, Mich. Sign. No. 1,132,823; Mar. 23; Gaz. vol. 212; p. 1173.
- Bamberg, Ottomar F., and E. Weinholt, Laibach, Austria-Hungary. Writing-machine. No. 1,138,832; May 11; Gaz. vol. 214; p. 429.
- Bamberger, Alfred H. (See Hansen, Charles A., assignor.)
- Bamberger Lerol & Company. (See Stern, Guido, assignor.)
- Bame, Noah R., Anaconda, Mont. Agricultural implement. No. 1,145,963; July 13; Gaz. vol. 216; p. 365.
- Bamfield, Thomas C., and G. Rechter, Angel Island, Cal. Sanitary and self-cleaning comb. No. 1,131,592; Mar. 9; Gaz. vol. 212; p. 640.
- Bamfield, Thomas C., and G. Rechter, Angel Island, Cal. Comb-cleaner. No. 1,133,910; Mar. 30; Gaz. vol. 212; p. 1597.
- Bamford, Arthur A., Chicago, Ill. Gas-engine. No. 1,163,309; Dec. 7; Gaz. vol. 221; p. 201.
- Bamford, James B., Junction City, Oreg. Automobile wheel attachment. No. 1,151,436; Aug. 24; Gaz. vol. 217; p. 1259.
- Bancel, Paul A. (See Gibson, George H., assignor.)
- Bancel, Paul A., New York, N. Y. Multistage steam-condensing. No. 1,143,349; June 15; Gaz. vol. 215; p. 871.
- Bancel, Paul A., New York, N. Y., assignor to himself, and G. H. Gibson, Upper Montclair, N. J. Method of and apparatus for utilizing the energy of steam. No. 1,143,348; June 15; Gaz. vol. 215; p. 870.
- Bancroft, Alfred G. (See Nekirk and Bancroft.)
- Bancroft, Frederick J., Pawtucket, R. I. Tennis-racket. No. 1,156,340; Oct. 12; Gaz. vol. 219; p. 376.
- Bancroft, James E., Toledo, Ohio, assignor to Toledo Computing Scale Company, Newark, N. J. Vulcanizer. No. 1,141,519; June 1; Gaz. vol. 215; p. 154.
- Bancroft, Jessie H., New York, N. Y. Garment-supporter. No. 1,141,754; June 1; Gaz. vol. 215; p. 235.
- Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type-carrier for type-casting machines. No. 1,149,174; Aug. 10; Gaz. vol. 217; p. 346.
- Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Record-strip composing-machine. No. 1,149,175; Aug. 10; Gaz. vol. 217; p. 346.
- Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Controller composing mechanism. No. 1,149,176; Aug. 10; Gaz. vol. 217; p. 347.
- Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Galley mechanism for type-composing machines. No. 1,149,177; Aug. 10; Gaz. vol. 217; p. 347.
- Randi, William N. (See Spring and Randi.)
- Bandlow, Henry E., assignor to National Stamping & Electric Works, Chicago, Ill. Shade-holder for lamps. No. 1,135,250; Apr. 13; Gaz. vol. 213; p. 457.
- Bandtel, Herbert E., assignor of one-half to R. H. Becker, Milwaukee, Wis. Bar tie and support. No. 1,144,093; June 22; Gaz. vol. 215; p. 1152.
- Banduray, Ladislaus. (See Sivak, Nagy, and Banduray.)
- Bandy, Claude M. (See Reeves and Bandy.)
- Bane, Frank A. (See Adair and Bane.)
- Bane, James O., St. Paul, Minn. Spring attachment for pumps. No. 1,133,695; Mar. 30; Gaz. vol. 212; p. 1524.

Alphabetical list of patentees—Continued.

- Banes, Edward T., Ogontz, Pa. Signaling system for automobiles or the like. No. 1,156,453; Oct. 12; Gaz. vol. 219; p. 418.
- Banghart, Charles S., Flushing, assignor, by mesne assignments, to N-W Equipment Co., Inc., New York, N. Y. Check-plate for journal-boxes. No. 1,136,640; Apr. 20; Gaz. vol. 213; p. 988.
- Banghart, Charles S., Flushing, assignor, by mesne assignments, to N-W Equipment Co., Inc., New York, N. Y. Fender for railway-cars. No. 1,136,641; Apr. 20; Gaz. vol. 213; p. 988.
- Banghart, Charles S., Flushing, assignor to N-W Equipment Co., Inc., New York, N. Y. Fender. No. 1,136,642; Apr. 20; Gaz. vol. 213; p. 989.
- Banholzer, Paul P., Philadelphia, Pa. Mechanical sounder for telegraph systems. No. 1,163,201; Dec. 7; Gaz. vol. 221; p. 163.
- Banker, George, Pittsburgh, Pa. Valve for flush-tanks. No. 1,162,209; Nov. 30; Gaz. vol. 220; p. 1514.
- Banker Manufacturing Company, The. (See Daly, John J., assignor.)
- Banks, Chester, Quincy, Ill. Holder for fabric rolls. No. 1,161,106; Nov. 23; Gaz. vol. 220; p. 1080.
- Banks & Company, F. S. (See Slee, Richard, assignor.)
- Banks, Frank. (See Lindberg, John F., assignor.)
- Banks, Harold J. (See Fritz, Gustav E., assignor.)
- Banks, Lynn F., Kahoka, Mo. Gate and door fastener. No. 1,153,910; Sept. 7; Gaz. vol. 218; p. 231.
- Banks, Robert W., Jr., Gulfport, Miss. Blade-sharpener. No. 1,145,053; July 6; Gaz. vol. 216; p. 29.
- Banks, William C., New York, N. Y. Bowling-alley. No. 1,150,570; Aug. 17; Gaz. vol. 217; p. 908.
- Banks, William C., assignor, by mesne assignments, to N-W Equipment Co., Inc., New York, N. Y. Fuse. No. 1,124,194; Jan. 5; Gaz. vol. 210; p. 340.
- Banks, William C., assignor, by mesne assignments, to N-W Equipment Co., Inc., New York, N. Y. Fuse. No. 1,150,569; Aug. 17; Gaz. vol. 217; p. 908.
- Banks, William C., assignor, by mesne assignments, to N-W Equipment Co., Inc., New York, N. Y. Coupling. No. 1,157,921; Oct. 26; Gaz. vol. 219; p. 1025.
- Banner, Otto, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Regulator for mixed-pressure engines. No. 1,148,738; Aug. 3; Gaz. vol. 217; p. 92.
- Banner, Otto, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Regulating means for centrifugal compressors. No. 1,154,959; Sept. 28; Gaz. vol. 218; p. 1006.
- Banner, Otto, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Combined thrust and journal bearing. No. 1,158,424; Nov. 2; Gaz. vol. 220; p. 4.
- Banner, Otto, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing mechanism for centrifugal blowing-engines. No. 1,160,562; Nov. 16; Gaz. vol. 220; p. 842.
- Banner, Otto, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steam-turbine. No. 1,161,436; Nov. 23; Gaz. vol. 220; p. 1200.
- Banner, S. Morrill. (See Smith, Harry M., assignor.)
- Banning & Banning. (See Schneider, Adolph, assignor.)
- Banning, Raymond H., Oakland, Cal. Screen attachment for window-sashes. No. 1,162,328; Nov. 30; Gaz. vol. 220; p. 1556.
- Bannon, Martin J. (See Gray, William B., assignor.)
- Banovitch, Joseph, Jr. (See Banovitch, Joseph, Sr., and J., Jr.)
- Banovitch, Joseph, Sr., and J., Jr., Cartersville, Va. Toy. No. 1,127,388; Feb. 9; Gaz. vol. 211; p. 293.
- Banta, Margaret E., et al. (See Haney, William, assignor.)
- Banwarth, William, Gary, S. D. Acetylene-gas generator. No. 1,150,730; Aug. 17; Gaz. vol. 217; p. 962.
- Banwell, James, assignor of one-third to R. L. Beck, Cleveland, Ohio. Paving-strip. No. 1,134,939; Apr. 6; Gaz. vol. 213; p. 305.
- Banzett, William E., Huntington, N. Y. Locking attachment for hinges. No. 1,133,454; Mar. 30; Gaz. vol. 212; p. 1434.
- Banzett, William H., Bergenfield, N. J., assignor to Mercantile Corporation, New York, N. Y. Making window-envelope blanks. No. 1,123,659; Jan. 5; Gaz. vol. 210; p. 158.
- Banzett, William H., Bergenfield, N. J., assignor to American Lithographic Company, New York, N. Y. Offset-printing machine. No. 1,162,739; Dec. 7; Gaz. vol. 221; p. 3.
- Banzett, William H., Bergenfield, N. J., and E. Kenny, assignors to Mercantile Corporation, New York, N. Y. Machine for making perfected envelope-blanks. No. 1,123,658; Jan. 5; Gaz. vol. 210; p. 158.
- Banzhof, Charles P. (See Stauffer, Banzhof, and Stauffer.)
- Banzhof, Charles P., assignor of one-fourth to L. W. Horting, one-fourth to C. F. Stauffer, and one-fourth to B. G. Stauffer, Lancaster, Pa. Fan-blade. No. 1,150,241; Aug. 17; Gaz. vol. 217; p. 794.
- Baptist, Emanuel. (See Larson and Baptist.)
- Baptiste, George. (See Stubbinsfield, William P., assignor.)
- Bar, Andrew J., Mansfield, Ohio. Valve. No. 1,158,773; Nov. 2; Gaz. vol. 220; p. 127.
- Bar-Loek Typewriter Company Limited, The. (See Etheridge, Herbert, assignor.)
- Barabás, Louis, and J. Hada, Cleveland, Ohio. Coffee-percolator. No. 1,143,022; June 15; Gaz. vol. 215; p. 755.
- Barash, Andrew, Glouster, Ohio. Safety device for elevators. No. 1,129,536; Feb. 23; Gaz. vol. 211; p. 1130.
- Barash, S. S. (See Reeves, James W., assignor.)
- Barb, Roy E., Kitzmiller, Md. Nut-lock. No. 1,147,595; July 20; Gaz. vol. 216; p. 957.
- Barba, Charles E., Altoona, Pa. Fish-car. No. 1,156,515; Oct. 12; Gaz. vol. 219; p. 440.
- Barber, Albert E., Mishawaka, Ind. Shaft-coupling. No. 1,150,483; Aug. 17; Gaz. vol. 217; p. 877.
- Barber Asphalt Paving Company, The. (See Birney, George H., assignor.)
- Barber Asphalt Paving Company, The. (See Forrest, Charles N., assignor.)
- Barber Asphalt Paving Company, The. (See Smalley, Harvey S., assignor.)
- Barber, Austin W., Everett, Wash. Ironing-board. No. 1,134,662; Apr. 6; Gaz. vol. 213; p. 212.
- Barber-Colman Company. (See Boozer and Hill, assignors.)
- Barber-Colman Company. (See Colman, Howard D., assignor.)
- Barber-Colman Company. (See Colman and Peterson, assignors.)
- Barber-Coleman Company. (See Peterson, Burt A., assignor.)
- Barber-Colman Company. (See Williams, Humphrey and J. H., assignors.)
- Barber, Earl E. (See Bowers, Barber, and Grover.)
- Barber, Earl E. (See Grover and Barber.)
- Barber, Earl E., Boston, assignor to L. L. Hartwell, Chelsea, Mass. Visual minimum-thickness-indicating machine. No. 1,125,443; Jan. 19; Gaz. vol. 210; p. 871.
- Barber, Efraim, Hartford, Conn. Time-actuating device for gas-cocks and the like. No. 1,143,933; June 22; Gaz. vol. 215; p. 1094.
- Barber, Frank B., Fulton, Ill. Work-holder. No. 1,125,253; Jan. 19; Gaz. vol. 210; p. 803.
- Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Underframe for cars. No. 1,126,343; Jan. 26; Gaz. vol. 210; p. 1225.
- Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Truck-bolster. No. 1,126,936; Feb. 2; Gaz. vol. 211; p. 95.
- Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Adjustable brake-staff. No. 1,130,955; Mar. 9; Gaz. vol. 212; p. 421.
- Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Hopper-car. No. 1,134,251; Apr. 6; Gaz. vol. 213; p. 62.
- Barber, Henry J. (See Hennecke, Joseph W., assignor.)
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Printing-plate-shaving machine. No. 1,126,344; Jan. 26; Gaz. vol. 210; p. 1226.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for printing-presses. No. 1,146,916; July 20; Gaz. vol. 216; p. 719.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for rotary printing-machines. No. 1,147,697; July 27; Gaz. vol. 216; p. 1019.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting, associating, and folding machine. No. 1,148,003; July 27; Gaz. vol. 216; p. 1126.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting, associating, and folding machine. No. 1,148,004; July 27; Gaz. vol. 216; p. 1127.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Rotary sheet-printing machine. No. 1,152,068; Aug. 31; Gaz. vol. 217; p. 1525.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Rotary sheet-printing machine. No. 1,152,069; Aug. 31; Gaz. vol. 217; p. 1525.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Tympan for box cutting and scoring machines. No. 1,158,772; Nov. 2; Gaz. vol. 220; p. 127.
- Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery apparatus for printing-machines. No. 1,159,638; Nov. 9; Gaz. vol. 220; p. 462.
- Barber, Joel D., New York, N. Y. Furniture construction. No. 1,142,006; June 8; Gaz. vol. 215; p. 360.
- Barber, John C., Chicago, Ill. Underframe structure for cars. No. 1,138,615; May 11; Gaz. vol. 214; p. 350.
- Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Flat-car-underframe structure. No. 1,126,345; Jan. 26; Gaz. vol. 210; p. 1226.

Alphabetical list of patentees—Continued.

- Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,128,090; Feb. 9; Gaz. vol. 211; p. 541.
- Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Roller center-bearing for cars. No. 1,130,956; Mar. 9; Gaz. vol. 212; p. 421.
- Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Roller-bearing device. No. 1,135,982; Apr. 20; Gaz. vol. 213; p. 756.
- Barber, Lee W., assignor to Standard Car Truck Company, Chicago, Ill. Center-bearing for railway-cars. No. 1,128,743; Feb. 16; Gaz. vol. 211; p. 815.
- Barber, Lee W., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Roller side bearing. No. 1,128,400; Feb. 16; Gaz. vol. 211; p. 696.
- Barber, Martin A., *et al.* (See Moler, Abraham L., assignor.)
- Barber, Martin A., assignor of two-fifths to I. G. Clayton and one-fifth to A. L. Moler, Montreal, Quebec, Canada. Automatic train-pipe coupling. No. 1,161,372; Nov. 23; Gaz. vol. 220; p. 1178.
- Barber, Martin A., assignor of two-fifths to I. G. Clayton and one-fifth to A. L. Moler, Montreal, Quebec, Canada. Automatic train-pipe coupling. No. 1,161,373; Nov. 23; Gaz. vol. 220; p. 1178.
- Barber, R. B. (See Schmidt, Gottfried, assignor.)
- Barber, Ralph R., Harrison, Ark. Manifold sales-book. No. 1,157,142; Oct. 19; Gaz. vol. 219; p. 689.
- Barber, Reuben E., Pittsburgh, Pa. Single-service towel-rack. No. 1,129,623; Feb. 23; Gaz. vol. 211; p. 1161.
- Barber, William, Brooklyn, N. Y. Motor-vehicle. No. 1,153,536; Sept. 14; Gaz. vol. 218; p. 455.
- Barber, William, Brooklyn, N. Y. Motor-vehicle. No. 1,153,537; Sept. 14; Gaz. vol. 218; p. 455.
- Barber, William, Brooklyn, N. Y. Traction-machine. No. 1,153,538; Sept. 14; Gaz. vol. 218; p. 456.
- Barberis, Alberto, Mexico, Mexico. Lubricating-packing and making the same. No. 1,145,877; July 13; Gaz. vol. 216; p. 336.
- Barberis, Giuseppe S., Saluggia, Italy. Apparatus for printing vignette photographs. No. 1,126,346; Jan. 26; Gaz. vol. 210; p. 1226.
- Barbora, John, Buffalo, N. Y. Bedstead attachment. No. 1,133,696; Mar. 30; Gaz. vol. 212; p. 1524.
- Barbour, Charles, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Armor for flexible articles. No. 1,155,460; Oct. 5; Gaz. vol. 219; p. 47.
- Barbour, George H., Pittsburgh, Pa. Railway-track construction. No. 1,144,164; June 22; Gaz. vol. 215; p. 1178.
- Barbour, James G., Canton, Ohio. Brick-cut-off table. No. 1,152,873; Sept. 7; Gaz. vol. 218; p. 181.
- Barbour, Robert P., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Clip. No. 1,155,637; Oct. 5; Gaz. vol. 219; p. 108.
- Barclay, William P., Chicago, Ill. Steam-boiler furnace. No. 1,126,685; Feb. 2; Gaz. vol. 211; p. 6.
- Barclay, William R., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for compressing heels. No. 1,125,254; Jan. 19; Gaz. vol. 210; p. 803.
- Barclay, Gaylord A., Newark, N. J. Protected wire garment-stay. No. 1,124,582; Jan. 12; Gaz. vol. 210; p. 527.
- Barclay, Gaylord A., Newark, N. J. Wire garment-stay. No. 1,150,327; Aug. 17; Gaz. vol. 217; p. 823.
- Barcus, George N., and C. E. Smith, assignors to The Rock City Manufacturing Company, Wabash, Ind. Machine for assembling spring-hinges. No. 1,137,451; Apr. 27; Gaz. vol. 213; p. 1317.
- Barcus, Orville F., Shanghai, China. Star-finder. No. 1,150,731; Aug. 17; Gaz. vol. 217; p. 962.
- Barcy, William W., Jr., assignor to Wll Bar Manufacturing Company, Detroit, Mich. Push-button. No. 1,128,744; Feb. 16; Gaz. vol. 211; p. 815.
- Bard, Jacob W., Peoria, assignor to Sangamo Electric Company, Springfield, Ill. Interval-demand indicating mechanism. No. 1,133,455; Mar. 30; Gaz. vol. 212; p. 1434.
- Bardeen Corporation, The. (See Bardeen and Harris, assignors.)
- Bardeen, Hugh A., assignor of one-half to R. E. Kline, Los Angeles, Cal. Fish-tail bit. No. 1,136,203; Apr. 20; Gaz. vol. 213; p. 833.
- Bardeen, Hugh A., Hollywood, assignor of one-fourth to H. G. Palmer and one-half to J. E. Randall, Los Angeles, Cal. Well-tool. No. 1,132,062; Mar. 16; Gaz. vol. 212; p. 845.
- Bardeen, Hugh A., Hollywood, assignor of one-fourth to H. G. Palmer and one-half to J. E. Randall, Los Angeles, Cal. Impact-tool. No. 1,132,063; Mar. 16; Gaz. vol. 212; p. 845.
- Bardeen, Hugh A., and F. W. Harris, assignors to The Bardeen Corporation, Los Angeles, Cal. Pump. No. 1,148,069; July 27; Gaz. vol. 216; p. 1151.
- Barden, George. (See Doyle and Barden.)
- Barder, Byron R., Akron, Ohio. Vulcanizer. No. 1,144,683; June 29; Gaz. vol. 215; p. 1383.
- Bardin, James B., Chadbourn, N. C. Adjustable operator's seat for dental chairs. No. 1,155,541; Oct. 5; Gaz. vol. 219; p. 76.
- Bardsley, Joseph, Yeadon, assignor to Dairymens Supply Company, Lansdowne, Pa. Bottle-capping machine. No. 1,127,348; Feb. 2; Gaz. vol. 211; p. 237.
- Bardsley, Walter R., Philadelphia, Pa. Making die-plates. No. 1,157,493; Oct. 19; Gaz. vol. 219; p. 814.
- Bardwell, George, Winkelman, Ariz. Combination hand-car lever and flag-scabard. No. 1,150,093; Aug. 17; Gaz. vol. 217; p. 739.
- Bardwell, George W., assignor to Hall-Borchert Dress Form Company, New York, N. Y. Dress-form. No. 1,140,941; May 25; Gaz. vol. 214; p. 1241.
- Barefield, Mercer D., Hollandale, Miss. Insect-destroyer. No. 1,131,458; Mar. 9; Gaz. vol. 212; p. 595.
- Barenz, William, Chicago, Ill. Valve. No. 1,151,751; Aug. 31; Gaz. vol. 217; p. 1414.
- Bargamin, Clifford. (See Coyle-Irving, William E., assignor.)
- Barger, Edward G., assignor of one-half to E. I. Neustadter, Portland, Oreg. Supporting-clamp. No. 1,159,821; Nov. 9; Gaz. vol. 220; p. 529.
- Barhorst, Albert, McLean township, Shelby county, Ohio. Finger-board for threshing-machines. No. 1,162,548; Nov. 30; Gaz. vol. 220; p. 1631.
- Barili, Arthur E., II., Pittsburgh, Pa. Change-giving vender. No. 1,128,281; Feb. 16; Gaz. vol. 211; p. 658.
- Bark, Otto. (See Gunn, Bark, and Scowcroft.)
- Barkalow, John W. (See Kline, Harvey Z., assignor.)
- Barker, Charles H., Regina, Saskatchewan, Canada. Attachment to sheaf-loaders. No. 1,145,878; July 13; Gaz. vol. 216; p. 336.
- Barker, Charles H., Chicago, Ill. War-maneuvering game. No. 1,147,478; July 20; Gaz. vol. 216; p. 917.
- Barker, Charles L., Norwalk, Conn. Floating bearing. No. 1,124,256; Jan. 12; Gaz. vol. 210; p. 409.
- Barker, Charles R. (See Farrow and Barker.)
- Barker, Cloyd K., assignor of twenty-one and two-thirds one-hundredths to F. L. Jones, twenty-one and two-thirds one-hundredths to R. A. Mack, Cincinnati, and twenty-one and two-thirds one-hundredths to F. S. Gates, Gallipolis, Ohio. Making a composition for plugging tire-punctures. No. 1,128,282; Feb. 16; Gaz. vol. 211; p. 659.
- Barker, David J. (See Brandenburg and Barker.)
- Barker, England J., Chicago, Ill. Attachment for typewriters, adding-machines, and the like. No. 1,140,493; May 25; Gaz. vol. 214; p. 1085.
- Barker, George E., Arlington, assignor to The Reece Button Hole Machine Company, Boston, Mass. Button-feeding device for button-sewing machines. No. 1,160,487; Nov. 16; Gaz. vol. 220; p. 815.
- Barker, Guy R., Branford, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,150,571; Aug. 17; Gaz. vol. 217; p. 909.
- Barker, John, assignor to All Angle Square Company, Los Angeles, Cal. Folding protractor-square. No. 1,161,761; Nov. 23; Gaz. vol. 220; p. 1310.
- Barker, John J., *et al.* (See Miller, John, Sr., assignor.)
- Barker, Lewis W., Fredericton, New Brunswick, Canada. Skate-clamp. No. 1,153,993; Sept. 21; Gaz. vol. 218; p. 647.
- Barker, Melville H. (See Weston and Barker.)
- Barker, Melville H., Boston, Mass. Suspension and driving means for centrifugal machines. No. 1,139,473; May 18; Gaz. vol. 214; p. 689.
- Barker, Melville H., Boston, Mass. Bearing for centrifugal machines. No. 1,146,392; July 13; Gaz. vol. 216; p. 516.
- Barker, Melville H., Boston, and C. A. Adams, Cambridge, assignors to American Tool & Machine Company, Boston, Mass. Means for driving centrifugal machines. No. 1,146,767; July 13; Gaz. vol. 216; p. 647.
- Barker, Samuel, Providence, R. I. Dyeing-machine. No. 1,141,301; June 1; Gaz. vol. 215; p. 77.
- Barker, Spencer A., assignor of one-half to W. R. Magill, Deport, Tex. Plow. No. 1,156,831; Oct. 12; Gaz. vol. 219; p. 549.
- Barker, Walter S., Cambridge, Mass. Storm-coat. No. 1,161,589; Nov. 23; Gaz. vol. 220; p. 1253.
- Barker, Wendell A., Chicago, Ill. Water-circulation system for subways. No. 1,144,094; June 22; Gaz. vol. 215; p. 1152.
- Barker, Wendell A., assignor to Thomas Elevator Company, Chicago, Ill. Electrically-driven hoist. No. 1,141,679; June 1; Gaz. vol. 215; p. 211.
- Barker, Wendell A., assignor to Thomas Elevator Company, Chicago, Ill. Hoisting-machine. No. 1,155,784; Oct. 5; Gaz. vol. 219; p. 160.
- Barker, William, Yonkers, N. Y. Spool-head fastener. No. 1,150,011; Aug. 17; Gaz. vol. 217; p. 710.
- Barker, William H. (See Booraem, Robert E., assignor.)
- Barkin, Abraham, Chicago, Ill. Soldering-iron. No. 1,129,442; Feb. 23; Gaz. vol. 211; p. 1097.
- Barkley, Fred W. (See Forbes and Barkley.)
- Barksdale, Horatio T. (See McBurney, Barksdale, and Howe.)
- Barkwill, William H., assignor to Die Sinking and Machine Co., Akron, Ohio. Frictional gearing. No. 1,154,598; Sept. 28; Gaz. vol. 218; p. 883.
- Barlet, Natalie M., assignor to The Junoform Company, Philadelphia, Pa. Garment. No. 1,144,631; June 29; Gaz. vol. 215; p. 1366.

Alphabetical list of patentees—Continued.

- Barlet, Natalie M., assignor to The Junoform Company, Philadelphia, Pa. Sanitary napkin. No. 1,150,572; Aug. 17; Gaz. vol. 217; p. 909.
- Barley, William B., assignor to Fearless Dishwasher Co., Rochester, N. Y. Dish-holder. No. 1,125,444; Jan. 19; Gaz. vol. 210; p. 871.
- Barley, William B., assignor to Fearless Dishwasher Company, Rochester, N. Y. Dish-washing machine. No. 1,161,916; Nov. 30; Gaz. vol. 220; p. 1412.
- Barlow, Bronson, Chicago, Ill. Culture-starter-mallix packet and making the same. No. 1,160,818; Nov. 16; Gaz. vol. 220; p. 935.
- Barlow, Frank, London, England. Locking mechanism for elevator-gates. No. 1,155,870; Oct. 5; Gaz. vol. 219; p. 191.
- Barlow, John T., Oak Park, Ill. Bath apparatus. No. 1,163,732; Dec. 14; Gaz. vol. 221; p. 394.
- Barna, Joseph W., Chicago, Ill. Button and buttonhole marker for shoe-uppers. No. 1,132,507; Mar. 16; Gaz. vol. 212; p. 1008.
- Barnard, Bleecker S. (See Blumenthal and Barnard.)
- Barnard, Elmer E., Lynchburg, Va. Attachment for drawing-boards. No. 1,139,011; May 11; Gaz. vol. 214; p. 493.
- Barnard, Hugh A., Houstonville, N. C. Paper bag. No. 1,133,911; Mar. 30; Gaz. vol. 212; p. 1597.
- Barnard, John W., assignor of one-half to W. T. Ingram, Trenton, Tenn. Harrow. No. 1,140,238; May 18; Gaz. vol. 214; p. 958.
- Barnard and Leas Manufacturing Company. (See Cornwall, John B., assignor.)
- Barnard, Robert P. (See Marley, Thacker, and Barnard.)
- Barnard, Samuel G., Seattle, Wash. Self-lubricating bolt. No. 1,145,288; July 6; Gaz. vol. 216; p. 109.
- Barnard, Sidney M., Forestville, Conn. Case for shipping cans of ice-cream. No. 1,147,291; July 20; Gaz. vol. 216; p. 849.
- Barnard, Sidney N., et al. (See Newman, Arthur S., assignor.)
- Barnard, Therides V., Schaller, Iowa. Harrow. No. 1,128,283; Feb. 16; Gaz. vol. 211; p. 659.
- Barnes, Ansley, Waterville, Me. Cable-tightener. No. 1,143,483; June 15; Gaz. vol. 215; p. 916.
- Barnes, Arthur P. (See Jackson and Barnes.)
- Barnes, Cecil, Chadron, Nebr. Oil-cup. No. 1,160,236; Nov. 16; Gaz. vol. 220; p. 727.
- Barnes, Charles H., assignor to Remington Arms & Ammunition Company, Iilon, N. Y. Frame and receiver construction for firearms. No. 1,157,752; Oct. 26; Gaz. vol. 219; p. 967.
- Barnes, Charles H., assignor to Remington Arms & Ammunition Company, Iilon, N. Y. Gun-sight. No. 1,161,280; Nov. 23; Gaz. vol. 220; p. 1144.
- Barnes, Charles H., J. O. Simpson, W. H. Steere, Iilon, and W. F. Lawrence, Utica, assignors to Remington Arms & Ammunition Company, Iilon, N. Y. Gun-sight. No. 1,161,281; Nov. 23; Gaz. vol. 220; p. 1145.
- Barnes, Charles O., Detroit, Mich. Pressing device. No. 1,141,680; June 1; Gaz. vol. 215; p. 211.
- Barnes, Charles S., Washington, D. C. Boat-propeller. No. 1,162,549; Nov. 30; Gaz. vol. 220; p. 1631.
- Barnes, David S., Watkins, N. Y. Necktie. No. 1,125,793; Jan. 19; Gaz. vol. 210; p. 995.
- Barnes, Edward M., assignor to Advance Mfg. Co., Hastings, Mich. Vacuum-creator. No. 1,152,473; Sept. 7; Gaz. vol. 218; p. 33.
- Barnes, Edward M., assignor to Advance Mfg. Co., Hastings, Mich. Suction-cleaner. No. 1,156,874; Oct. 19; Gaz. vol. 219; p. 594.
- Barnes, Frank C., Haddon Heights, N. J., assignor to National Chemical Company, Syracuse, N. Y. Seam-dampener. No. 1,134,434; Apr. 6; Gaz. vol. 213; p. 128.
- Barnes, Frederick W., and F. W. Lovejoy, assignors to Eastman Kodak Company, Rochester, N. Y. Cut-film holder. No. 1,151,153; Aug. 24; Gaz. vol. 217; p. 1165.
- Barnes, George F., Phoenix, Ariz. Leaf-holder for books. No. 1,160,237; Nov. 16; Gaz. vol. 220; p. 728.
- Barnes, George L., Montowese, assignor to The Lyman Gun Sight Corporation, Middlefield, Conn. Sight for firearms. No. 1,131,029; Mar. 9; Gaz. vol. 212; p. 447.
- Barnes, George W. (See Hawkins, Frank E., assignor.)
- Barnes, Henry, Brooklyn, N. Y. Spraying attachment for bath-tubs. No. 1,140,347; May 25; Gaz. vol. 214; p. 1031.
- Barnes, Herbert C., assignor to Standard Roller Bearing Company, Philadelphia, Pa. Machine for grinding taper rolls. No. 1,128,091; Feb. 9; Gaz. vol. 211; p. 542.
- Barnes, Herbert M., Silver Creek, N. Y. Combination carrier and closure for fruit-baskets. No. 1,150,732; Aug. 17; Gaz. vol. 217; p. 962.
- Barnes, J. F., et al. (See Bragg, Julius, assignor.)
- Barnes, James W., assignor to Estey Piano Company, New York, N. Y. Automatic music-sheet-registration mechanism for automatic musical instruments. No. 1,132,547; Mar. 23; Gaz. vol. 212; p. 1069.
- Barnes, John S., and N. E. Sherwood, Detroit, Mich.; said Barnes assignor to said Sherwood. Strand-guide for rope-making machines. No. 1,154,905; Sept. 28; Gaz. vol. 218; p. 987.
- Barnes, John W., Rock Ferry, England. Clutch mechanism. No. 1,151,079; Aug. 24; Gaz. vol. 217; p. 1139.
- Barnes, Justus W., Jr., Becket, Mass. Locomotive-stopping apparatus. No. 1,124,583; Jan. 12; Gaz. vol. 210; p. 528.
- Barnes, Leonora E., Lincoln, Nebr. Tailor's rule. No. 1,158,425; Nov. 2; Gaz. vol. 220; p. 4.
- Barnes, Linniaeus V. (See Andrews and Barnes.)
- Barnes, Llewellyn T., Sea Cliff, N. Y. Carbureter. No. 1,134,365; Apr. 6; Gaz. vol. 213; p. 103.
- Barnes, Llewellyn T., Sea Cliff, N. Y. Carbureter. No. 1,134,366; Apr. 6; Gaz. vol. 213; p. 103.
- Barnes, Llewellyn T., Sea Cliff, assignor to National Meter Company, New York, N. Y. Water-meter. No. 1,127,849; Feb. 9; Gaz. vol. 211; p. 457.
- Barnes, Ned E. (See Edmond and Barnes.)
- Barnes, Thomas, Rockville, Ind. Roller cutter attachment for drills. No. 1,148,428; July 27; Gaz. vol. 216; p. 1278.
- Barnes, Wilfred, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric motor. No. 1,135,093; Apr. 13; Gaz. vol. 213; p. 405.
- Barnes, Wilfred, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Shaft-bearing. No. 1,154,227; Sept. 21; Gaz. vol. 218; p. 727.
- Barnes, William A., Kenly, N. C. Tobacco-drier. No. 1,165,308; Dec. 21; Gaz. vol. 221; p. 984.
- Barnes, William E., Creighton, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Process and apparatus for drying pots. No. 1,151,555; Aug. 31; Gaz. vol. 217; p. 1347.
- Barnes, William G., Seattle, Wash. Mold. No. 1,126,686; Feb. 2; Gaz. vol. 211; p. 6.
- Barnes, William H., Spokane, Wash. Truck for handling brick and like material. No. 1,130,243; Mar. 2; Gaz. vol. 212; p. 139.
- Barnes, William H., Manchester, England. Knife-polishing apparatus. No. 1,144,456; June 29; Gaz. vol. 215; p. 1308.
- Barnes, William O., Leominster, assignor to M. E. Johnson, trustee, Fitchburg, Mass. Breech-loading firearm. No. 1,131,984; Mar. 16; Gaz. vol. 212; p. 818.
- Barnes, William O., Leominster, assignor to M. E. Johnson, trustee, Fitchburg, Mass. Barrel-locking device for guns. No. 1,137,045; Apr. 27; Gaz. vol. 213; p. 1169.
- Barnett, Arthur R., Portland, Ore., assignor to Barnetts Incorporated. Knife. No. 1,124,690; Jan. 12; Gaz. vol. 210; p. 567.
- Barnett, James. (See Montgomery, Gustavus A., assignor.)
- Barnett, John M., Lawrenceville, Ga. Wrench. No. 1,162,550; Nov. 30; Gaz. vol. 220; p. 1631.
- Barnett, John N., et al. (See Stanley, Richard E., assignor.)
- Barnett, Otto R. (See Hanson, Louis, assignor.)
- Barnett, Otto R. (See Laas, Edward, assignor.)
- Barnett, Otto R. (See Scott, John M., assignor.)
- Barnett, Otto R. (See Sponeburg, Hiram H., assignor.)
- Barnett, Otto R. (See Trueman, Percival H., assignor.)
- Barnett, Otto R. (See Walker, William A., assignor.)
- Barnett, Solomon V., assignor of one-half to G. Gatzki, Seymour, Tex. Harvester. No. 1,133,422; Mar. 40; Gaz. vol. 212; p. 1423.
- Barnett, W. D., et al. (See Jackson, John S., assignor.)
- Barnett, Wade, New Orleans, La. Flushing apparatus. No. 1,149,887; Aug. 10; Gaz. vol. 217; p. 604.
- Barnett, William S., Decatur, Ill. Combustion device. No. 1,152,691; Sept. 7; Gaz. vol. 218; p. 114.
- Barnetts Incorporated. (See Barnett, Arthur R., assignor.)
- Barney, Edwin E. (See Barr and Barney.)
- Barney, Edwin E., assignor to Remington Typewriter Company, Iilon, N. Y. Type-writing machine. No. 1,125,922; Jan. 26; Gaz. vol. 210; p. 1071.
- Barney, Edwin E., assignor to Remington Typewriter Company, Iilon, N. Y. Type-writing machine. No. 1,133,697; Mar. 30; Gaz. vol. 212; p. 1524.
- Barney, Frank A., Saginaw, Mich. Dish-washing machine. No. 1,126,347; Jan. 26; Gaz. vol. 210; p. 1227.
- Barney, Frank P., Chertley, Mass. Garment-clasp. No. 1,151,556; Aug. 31; Gaz. vol. 217; p. 1347.
- Barney and Smith Car Company, The. (See Heater, Jacob D., assignor.)
- Barney and Smith Car Company, The. (See Horne, James H., assignor.)
- Barney, Walter S., assignor to W. S. Barney Co., Boston, Mass. Dispensing device. No. 1,133,698; Mar. 30; Gaz. vol. 212; p. 1524.
- Barnhardt, Herman, Davenport, Wash. Beverage-producing material and making same. No. 1,150,733; Aug. 17; Gaz. vol. 217; p. 963.
- Barnhardt, Edwin E., Orangeville, Ontario, Canada, and W. N. Barnhardt, Central Islip, N. Y. Roller-bearing. No. 1,156,516; Oct. 12; Gaz. vol. 219; p. 440.
- Barnhardt, William N. (See Barnhardt, Edwin B. and W. N.)
- Barnhart Bros. & Spindler. (See Schmitt, Otto G., assignor.)
- Barnhart, Harvey P., Portland, Ore. Weed-destroyer. No. 1,135,346; Apr. 13; Gaz. vol. 213; p. 491.
- Barnstead, Robert P., Boston, Mass. Sterilizing-hopper. No. 1,126,937; Feb. 2; Gaz. vol. 211; p. 95.

Alphabetical list of patentees—Continued.

- Barnstead, Robert P., Boston, Mass. Water-heater. No. 1,132,548; Mar. 23; Gaz. vol. 212; p. 1069.
- Barnstead, Robert P., Boston, Mass. Valve. No. 1,140,653; May 25; Gaz. vol. 214; p. 1140.
- Barnstead, Robert P., Boston, Mass. Electric water-heater. No. 1,143,568; June 15; Gaz. vol. 215; p. 945.
- Barnum, Dana D. (See Carpenter and Barnum.)
- Barnum, Thomas E., assignor to Cutler-Hammer Clutch Co., Milwaukee, Wis. Driving mechanism for turrets and the like. No. 1,130,053; Mar. 2; Gaz. vol. 212; p. 74.
- Barnum, Thomas E., assignor to Cutler-Hammer Clutch Co., Milwaukee, Wis. Driving mechanism for turrets and the like. No. 1,130,054; Mar. 2; Gaz. vol. 212; p. 74.
- Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,149,325; Aug. 10; Gaz. vol. 217; p. 492.
- Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch or contactor. No. 1,156,201; Oct. 12; Gaz. vol. 219; p. 329.
- Baron, Charles S., Tiffin, Ohio. Jug or cover top. No. 1,145,461; July 6; Gaz. vol. 216; p. 171.
- Baron, Edwin T., *et al.* (See Cleaver, Fremont J., assignor.)
- Baron, Joseph V. (See Farr, Ira E., assignor.)
- Baron, Louis, New York, N. Y. Combined table and ironing-board. No. 1,160,126; Nov. 16; Gaz. vol. 220; p. 690.
- Barr, Archibald. (See Monton, Barr, and Stroud.)
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Means for use in association with range-finders. No. 1,164,326; Dec. 14; Gaz. vol. 221; p. 602.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Sighting apparatus for ordnance. No. 1,164,325; Dec. 14; Gaz. vol. 221; p. 602.
- Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Range and deflection computer. No. 1,147,358; July 20; Gaz. vol. 216; p. 872.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Apparatus for the conversion of motion according to one law into a motion according to another law. No. 1,159,463; Nov. 9; Gaz. vol. 220; p. 400.
- Barr, Archibald, W. Stroud, and J. W. French, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Step-by-step electrical transmitting and receiving apparatus. No. 1,147,359; July 20; Gaz. vol. 216; p. 873.
- Barr, David M., Philadelphia, Pa. Inhaler. No. 1,151,649; Aug. 31; Gaz. vol. 217; p. 1380.
- Barr, Frank M., assignor to L. P. Haight, Muskegon, Mich. Knitted hose. No. 1,160,819; Nov. 16; Gaz. vol. 220; p. 935.
- Barr, Frederic, Woodhaven, N. Y. Shade-support. No. 1,157,201; Oct. 19; Gaz. vol. 219; p. 711.
- Barr, Frederic, New York, N. Y. Electric switch. No. 1,158,426; Nov. 2; Gaz. vol. 220; p. 4.
- Barr, Frederic, New York, N. Y. Electric switch. No. 1,158,427; Nov. 2; Gaz. vol. 220; p. 5.
- Barr, Frederic, Woodhaven, N. Y. Pull-switch. No. 1,158,428; Nov. 2; Gaz. vol. 220; p. 5.
- Barr, Hugh A. (See Barr, William R. and H. A.)
- Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,128,571; Feb. 16; Gaz. vol. 211; p. 756.
- Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,130,875; Mar. 9; Gaz. vol. 212; p. 394.
- Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,153,668; Sept. 14; Gaz. vol. 218; p. 499.
- Barr, John H., New York, and E. E. Barney, assignors to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,164,056; Dec. 14; Gaz. vol. 221; p. 508.
- Barr, John L., Guthrie, Okla. Cotton-chopper. No. 1,145,964; July 13; Gaz. vol. 216; p. 365.
- Barr, John U., assignor of one-half to C. Rose, New York, N. Y. Advertising device. No. 1,146,839; July 20; Gaz. vol. 216; p. 692.
- Barr, John W., Park City, Mont. Rotatable work-stand. No. 1,145,663; July 6; Gaz. vol. 216; p. 241.
- Barr, Joseph A., Gates, N. Y. Means for transferring liquids. No. 1,133,606; Mar. 30; Gaz. vol. 212; p. 1490.
- Barr, Samuel G., Laredo, Mo. Windmill. No. 1,129,779; Feb. 23; Gaz. vol. 211; p. 1211.
- Barr and Stroud. (See Barr and Stroud, assignors.)
- Barr and Stroud. (See Barr, Stroud, and French, assignors.)
- Barr and Stroud Limited. (See Monton, Barr, and Stroud, assignors.)
- Barr, Thomas B., Bethlehem, and F. G. Hoyer, South Bethlehem, Pa. Crucible-lifting mechanism. No. 1,148,138; July 27; Gaz. vol. 216; p. 1177.
- Barr, William R., and H. A., Oakland, Cal. Pruning-shears. No. 1,136,759; Apr. 20; Gaz. vol. 213; p. 1032.
- Barrabee, Thomas R., Los Angeles, Cal. Folding box. No. 1,149,805; Aug. 10; Gaz. vol. 217; p. 575.
- Barrager, Kenneth W., Atlantic Highlands, N. J. Adjustable shade-roller hanger. No. 1,144,283; June 22; Gaz. vol. 215; p. 1219.
- Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Submarine torpedo-boat. No. 1,134,940; Apr. 6; Gaz. vol. 213; p. 305.
- Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Attachment for submarine boats. No. 1,142,768; June 8; Gaz. vol. 215; p. 625.
- Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Anchor-cable-cutting apparatus for submarine boats. No. 1,158,160; Oct. 26; Gaz. vol. 219; p. 1110.
- Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Submarine boat. No. 1,158,883; Nov. 2; Gaz. vol. 220; p. 167.
- Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Safety mechanism for operating the muzzle and breech doors of torpedo-firing tubes. No. 1,158,884; Nov. 2; Gaz. vol. 220; p. 168.
- Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Torpedo-expulsion tube. No. 1,161,182; Nov. 23; Gaz. vol. 220; p. 1108.
- Barrash, Joseph J., Chicago, Ill. Rain-signal. No. 1,143,246; June 15; Gaz. vol. 215; p. 825.
- Barratt, William T., assignor of one-third to A. Cooper, one-third to A. J. Cooper, and one-third to E. C. Stoddard, Bennington, Vt. Sinker-wheel mechanism. No. 1,140,098; May 18; Gaz. vol. 214; p. 912.
- Barrel & Cask Closure Company, The. (See Smith, Benjamin, assignor.)
- Barrel & Cask Closure Company, The. (See Terney, Charles F., assignor.)
- Barrelle, Marie A. L. (See Logan and Barrelle.)
- Barrère, Joseph, New York, N. Y. Lid-lifter. No. 1,133,912; Mar. 30; Gaz. vol. 212; p. 1598.
- Barrett, James H., Metrose, Tex. Timber-jack. No. 1,134,581; Apr. 6; Gaz. vol. 213; p. 182.
- Barrett Adding Machine Company. (See Barrett, Glenn J., assignor.)
- Barrett, Alex C., Montgomery, Ala. Breast-shield. No. 1,156,202; Oct. 12; Gaz. vol. 219; p. 329.
- Barrett, Arthur M., Chicago, Ill. Truck. No. 1,125,634; Jan. 19; Gaz. vol. 210; p. 937.
- Barrett, Arthur M., Chicago, Ill. Binder. No. 1,147,698; July 27; Gaz. vol. 216; p. 1019.
- Barrett, Charles R. (See Shannon, Robert P., assignor.)
- Barrett, Charles W., San Jose, Cal. Automatic air and elastic cushion-tire. No. 1,135,425; Apr. 13; Gaz. vol. 213; p. 519.
- Barrett, Edward J., Sheboygan, Wis. Chart-puzzle. No. 1,148,885; Aug. 3; Gaz. vol. 217; p. 142.
- Barrett, Glenn J., Grand Rapids, Mich., assignor to Barrett Adding Machine Company, Philadelphia, Pa. Punctuating device for adding machines. No. 1,127,953; Feb. 9; Gaz. vol. 211; p. 494.
- Barrett, Glenn J., Grand Rapids, Mich., assignor to Barrett Adding Machine Company, Philadelphia, Pa. Operating-handle for adding-machines. No. 1,130,463; Mar. 2; Gaz. vol. 212; p. 218.
- Barrett, Halsey M., *et al.*, receivers. (See Beakes, William E., assignor.)
- Barrett, Halsey M., *et al.*, trustees. (See Cohen, Louis, assignor.)
- Barrett, Halsey M., *et al.*, receivers. (See Fessenden, Reginald A., assignor.)
- Barrett, Halsey M., *et al.*, receivers. (See Hogan, John L., Jr., assignor.)
- Barrett, Halsey M., *et al.*, receivers. (See Kintner and Lee, assignors.)
- Barrett, Halsey M., *et al.*, receivers. (See Kroger, Fred H., assignor.)
- Barrett, Halsey M., *et al.*, receivers. (See Lee and Hogan, assignors.)
- Barrett, Harry A. (See Anble, James H., assignor.)
- Barrett, Harvey N. (See Newberry and Barrett.)
- Barrett, John H. (See Bailey, William T., assignor.)
- Barrett, John H., Paso Robles, Cal. Spring-tire. No. 1,130,367; Mar. 2; Gaz. vol. 212; p. 182.
- Barrett, John J., Maspeth, N. Y. Sheet-music turner. No. 1,125,635; Jan. 19; Gaz. vol. 210; p. 937.
- Barrett, John J., Maspeth, N. Y. Cork-puller. No. 1,162,017; Nov. 30; Gaz. vol. 220; p. 1448.
- Barrett Manufacturing Company. (See Church, Sumner R., assignor.)
- Barrett Manufacturing Company. (See Stewart and Perry, assignors.)
- Barrett, Martin J., Miners Mills, Pa. Rail-clearing device. No. 1,147,069; July 20; Gaz. vol. 216; p. 773.
- Barrett, Reginald, New York, N. Y. Finger-trainer for pianists. No. 1,126,938; Feb. 2; Gaz. vol. 211; p. 96.
- Barrett, Ross J., Toledo, Ohio. Valve. No. 1,128,092; Feb. 9; Gaz. vol. 211; p. 542.
- Barrie, George N., Brookline, Mass. Rake. No. 1,130,789; Mar. 9; Gaz. vol. 212; p. 364.

Alphabetical list of patentees—Continued.

- Barrie, George N., Brookline, and A. P. Hanscom, West Medford, Mass. Coupling. No. 1,140,491; Aug. 10; Gaz. vol. 217; p. 459.
- Barrier, Horace B., Spokane, Wash. Photographic-roll holder. No. 1,140,099; May 18; Gaz. vol. 214; p. 912.
- Barringer, Francis S. (See Bradley, Richard C., assignor.)
- Barringer, Paul B., Blacksburg, Va. Chemical fire-extinguishing system. No. 1,165,744; Dec. 28; Gaz. vol. 221; p. 1177.
- Barrington, Charles, Jr. (See Ginss, Armand, assignor.)
- Barrington, John, Boston, Mass. Alkali-free detergent for scouring and dyeing and making same. No. 1,139,326; May 11; Gaz. vol. 214; p. 599.
- Barrington, John, Brooklyn, N. Y. Washing and bleaching compound. No. 1,160,563; Nov. 16; Gaz. vol. 220; p. 843.
- Barron, Anastasia G., New York, assignor to C. G. Barron and W. V. Barry, Brooklyn, N. Y. Duster. No. 1,153,011; Sept. 7; Gaz. vol. 218; p. 231.
- Barron, Chester G., *et al.* (See Barron, Anastasia G., assignor.)
- Barron, Kathrine G., Faribault, Minn. Mail-cart. No. 1,130,464; Mar. 2; Gaz. vol. 212; p. 219.
- Barron, Melvil, Rogers, Tex. Automatic circuit-control apparatus. No. 1,157,663; Oct. 26; Gaz. vol. 219; p. 935.
- Barron, William H., Jr., Atlantic City, and C. Leseman, Egg Harbor City, N. J. Carpenter's tool. No. 1,134,806; Apr. 6; Gaz. vol. 213; p. 263.
- Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Sewing-machine looper mechanism. No. 1,125,636; Jan. 19; Gaz. vol. 210; p. 937.
- Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Work-holder for sewing-machines. No. 1,151,535; Aug. 24; Gaz. vol. 217; p. 1294.
- Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Button-sewing machine. No. 1,151,853; Aug. 31; Gaz. vol. 217; p. 1451.
- Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Button-feeding mechanism. No. 1,152,692; Sept. 7; Gaz. vol. 218; p. 115.
- Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Sewing-machine take-up. No. 1,166,037; Dec. 28; Gaz. vol. 221; p. 1277.
- Barrow Cottonseed Preserver Company. (See Barrow, Edward R., assignor.)
- Barrow, David W., Chattanooga, Tenn. Card-displaying apparatus. No. 1,140,348; May 25; Gaz. vol. 214; p. 1031.
- Barrow, Edward R., Memphis, Tenn. Sterilizing and preserving grain. No. 1,165,220; Dec. 21; Gaz. vol. 221; p. 957.
- Barrow, Edward R., assignor to Barrow Cottonseed Preserver Company, Memphis, Tenn. Sterilizing and preserving cotton-seed. No. 1,155,194; Sept. 28; Gaz. vol. 218; p. 1089.
- Barrow, Morris, New York, N. Y. Egg-carrier. No. 1,139,628; May 18; Gaz. vol. 214; p. 744.
- Barrows, Asahel H. (See Barrows, Wilber S. and A. H.)
- Barrows, Asahel H., Chicago, Ill. Aeroplane appliance. No. 1,142,134; June 8; Gaz. vol. 215; p. 406.
- Barrows, Harry E., Maquoketa, Iowa. Spring-wheel. No. 1,133,216; Mar. 23; Gaz. vol. 212; p. 1314.
- Barrows, Walter A., Belvidere, Ill. Measuring device. No. 1,139,831; May 18; Gaz. vol. 214; p. 816.
- Barrows, Wilber S., Chicago, Ill., and A. H. Barrows, Long Island City, N. Y. Aeroplane. No. 1,124,584; Jan. 12; Gaz. vol. 210; p. 528.
- Barrows, Wilber S. and A. H., Chicago, Ill. Aerial propeller. No. 1,144,521; June 29; Gaz. vol. 215; p. 1328.
- Barry, Arthur R., administrator. (See Cloos, Jacob.)
- Barry, James A., New York, N. Y. Emergency-horseshoe. No. 1,131,815; Mar. 16; Gaz. vol. 212; p. 757.
- Barry, James E. (See Zika, Frank A., assignor.)
- Barry, Richard V., Ottumwa, Iowa. Grain-shocking attachment for harvesting-machines. No. 1,149,492; Aug. 10; Gaz. vol. 217; p. 459.
- Barry, Sherman A., Lincoln, Cal. Collapsible case. No. 1,123,978; Jan. 5; Gaz. vol. 210; p. 265.
- Barry, Thomas F., assignor to Rubber & Celluloid Harness Trimming Co., Newark, N. J. Brush. No. 1,148,565; Aug. 3; Gaz. vol. 217; p. 30.
- Barry, Thomas F., assignor to Rubber & Celluloid Harness Trimming Co., Newark, N. J. Brush. No. 1,148,566; Aug. 3; Gaz. vol. 217; p. 30.
- Barry-Wehmiller Machinery Company. (See Dawson, Joseph W., assignor.)
- Barry-Wehmiller Machinery Company. (See Gallup, Rockwell L., assignor.)
- Barry, William, Oswego, N. Y. Chain holst. No. 1,128,401; Feb. 16; Gaz. vol. 211; p. 697.
- Barry, William V., *et al.* (See Barron, Anastasia G., assignor.)
- Barschow, George H., assignor to The American Metal Wheel & Auto Company, Toledo, Ohio. Child's sulky. No. 1,127,389; Feb. 9; Gaz. vol. 211; p. 293.
- Barsness, Edwin S. (See Barsness, Herman and E. S.)
- Barsness, Herman and E. S., Black Earth, Wis. Cattle-stanchion. No. 1,138,616; May 11; Gaz. vol. 214; p. 350.
- Barsness, Herman J., Black Earth, Wis. Cattle-stanchion. No. 1,142,135; June 8; Gaz. vol. 215; p. 406.
- Bársony, Emery. Castleton-on-Hudson, N. Y. Elevator safety device. No. 1,133,084; Mar. 23; Gaz. vol. 212; p. 1267.
- Bársony, Emery, Castleton-on-Hudson, N. Y. Lock for sliding doors. No. 1,156,341; Oct. 12; Gaz. vol. 219; p. 376.
- Barstow, Edwin O. (See Griswold and Barstow.)
- Barstow, Edwin O., Midland, Mich., assignor, by mesne assignments, to The Cleveland Trust Company, trustee, Cleveland, Ohio. Manufacturing arsenate of lead. No. 1,141,920; June 8; Gaz. vol. 215; p. 330.
- Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making bromin. No. 1,141,921; June 8; Gaz. vol. 215; p. 330.
- Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making bromin. No. 1,141,922; June 8; Gaz. vol. 215; p. 331.
- Barstow, Edwin O. and T. Griswold, Jr., Midland, Mich. Extracting oils and the like. No. 1,125,920; Jan. 19; Gaz. vol. 210; p. 1039.
- Barstow, Francis L., Appleton, Wis. Paper-stock soak-tank. No. 1,150,163; Aug. 17; Gaz. vol. 217; p. 765.
- Barstow, George E. (See Rietzel and Barstow.)
- Barstow Stove Co., The. (See Starr, Clarence D., assignor.)
- Barszcz, Ambrozy. (See Pejta, Grymulski, and Barszcz.)
- Bartel, William P., Waltham, Mass., assignor to Judson L. Thomson Mfg Co. Clasp-buckle. No. 1,133,456; Mar. 30; Gaz. vol. 212; p. 1435.
- Bartels, Carl. (See Mosler and Bartels.)
- Bartels, Charles W. (See Bartels, William H. and C. W.)
- Bartels, Lucas A., Hartford, Conn. Adjusting means for spring screw-threading dies and hollow mills. No. 1,164,567; Dec. 14; Gaz. vol. 221; p. 685.
- Bartels, William F., *et al.* (See Harris and Chromasta, assignors.)
- Bartels, William H. and C. W., Oakland, Cal. Pocket-container. No. 1,124,257; Jan. 12; Gaz. vol. 210; p. 409.
- Barten, William H., Gordon, Nebr. Baling-machine. No. 1,159,639; Nov. 9; Gaz. vol. 220; p. 463.
- Barten, William H., Gordon, Nebr. Apparatus for making concrete blocks. No. 1,166,312; Dec. 28; Gaz. vol. 221; p. 1380.
- Barter, Frank, assignor to Brown Bag Filling Machine Company, Fitchburg, Mass. Nail-feeding machine. No. 1,164,975; Dec. 21; Gaz. vol. 221; p. 869.
- Barter, John D., Calgary, Alberta, Canada. Engine. No. 1,150,734; Aug. 17; Gaz. vol. 217; p. 963.
- Bartges, Ervin A., Coburn, Pa. Cutter-bar. No. 1,145,739; July 6; Gaz. vol. 216; p. 268.
- Barth, Ernest C., Providence, R. I. Combined hot-water or steam and hot-air heater. No. 1,140,239; May 18; Gaz. vol. 214; p. 958.
- Barth, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-unloading vessel. No. 1,128,572; Feb. 16; Gaz. vol. 211; p. 757.
- Barth, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-unloading receptacle. No. 1,140,240; May 18; Gaz. vol. 214; p. 959.
- Barth, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-unloading receptacle. No. 1,140,563; May 25; Gaz. vol. 214; p. 1109.
- Barth, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Locking device for dumping-doors of self-unloading cars. No. 1,159,349; Nov. 9; Gaz. vol. 220; p. 358.
- Bartha, John, Clinton, Mass. Level. No. 1,153,012; Sept. 7; Gaz. vol. 218; p. 232.
- Barthel, Oliver E., Detroit, Mich. Piston. No. 1,139,396; May 11; Gaz. vol. 214; p. 626.
- Bartholdt, Bernhardt H., San Jose, Cal. Machine for stamping or marking cans. No. 1,140,791; May 25; Gaz. vol. 214; p. 1185.
- Bartholomew, Cassius M. (See Bartholomew, Thomas and C. M.)
- Bartholomew, Cassius M., Columbus, assignor of one-third to H. D. Bartholomew, Newark, Ohio. Vehicle-wheel. No. 1,151,238; Aug. 24; Gaz. vol. 217; p. 1194.
- Bartholomew, Ellis, Toledo, assignor to The National Peat Refining Company, Cleveland, Ohio. Gathering-head for dredges. No. 1,144,406; June 29; Gaz. vol. 215; p. 1290.
- Bartholomew, Ellis, Toledo, assignor to The National Peat Refining Company, Cleveland, Ohio. Apparatus for obtaining peat. No. 1,156,387; Oct. 12; Gaz. vol. 219; p. 395.
- Bartholomew, Henry D. (See Bartholomew, Cassius M., assignor.)
- Bartholomew, J. B. (See Fjarll, John O., assignor.) (Re-issue.)
- Bartholomew, John B., Peoria, Ill., assignor, by mesne assignments to Avery Company. Agricultural implement. No. 1,131,897; Mar. 16; Gaz. vol. 212; p. 785.
- Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Clutch mechanism for planters. No. 1,131,898; Mar. 16; Gaz. vol. 212; p. 785.
- Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Seed-separating mechanism for planters. No. 1,131,899; Mar. 16; Gaz. vol. 212; p. 786.

Alphabetical list of patentees—Continued.

- Bartholomew, John B., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Portable tank. No. 1,137,733; May 4; Gaz. vol. 214; p. 5.
- Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Vehicle-wheel. No. 1,138,177; May 4; Gaz. vol. 214; p. 161.
- Bartholomew, John B., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Cultivator. No. 1,138,925; May 11; Gaz. vol. 214; p. 460.
- Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Plow. No. 1,143,163; June 15; Gaz. vol. 215; p. 804.
- Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Traction device for vehicle-wheels. No. 1,150,846; Aug. 24; Gaz. vol. 217; p. 1061.
- Bartholomew, John B., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Traction-engine. No. 1,156,203; Oct. 12; Gaz. vol. 219; p. 329.
- Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Straw-bruise. No. 1,159,822; Nov. 9; Gaz. vol. 220; p. 529.
- Bartholomew, John B., Peoria, Ill., assignor to Avery Company. Gang-plow. No. 1,160,685; Nov. 16; Gaz. vol. 220; p. 889.
- Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Gang-plow. No. 1,160,686; Nov. 16; Gaz. vol. 220; p. 889.
- Bartholomew, Ohmer H., Beardstown, Ill. Beet-harvester. No. 1,132,149; Mar. 16; Gaz. vol. 212; p. 876.
- Bartholomew, Ohmer H., Beardstown, Ill. Beet-harvester. No. 1,158,956; Nov. 2; Gaz. vol. 220; p. 191.
- Bartholomew, Thomas, Columbus, Ohio. Toy. No. 1,162,674; Nov. 30; Gaz. vol. 220; p. 1670.
- Bartholomew, Thomas, Columbus, assignor to H. T. Hance, Westerville, Ohio. Hoop-projecting device. No. 1,163,609; Dec. 7; Gaz. vol. 221; p. 306.
- Bartholomew, Thomas and C. M., Columbus, Ohio. Holder for toothpicks or other sticklike devices. No. 1,125,933; Jan. 26; Gaz. vol. 210; p. 1075.
- Bartholomew, Thomas, and H. J. Percy: said Bartholomew assignor to F. O. Schoedinger, Columbus, Ohio. Auxiliary locking device. No. 1,155,195; Sept. 28; Gaz. vol. 218; p. 1089.
- Bartholomew, William, assignor to The Troy Laundry Machinery Company, Limited, Chicago, Ill. Stop mechanism for mangles. No. 1,133,699; Mar. 30; Gaz. vol. 212; p. 1525.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Safety mechanism for mangles. No. 1,148,739; Aug. 3; Gaz. vol. 217; p. 93.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Cuff-press. No. 1,151,239; Aug. 24; Gaz. vol. 217; p. 1195.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Centrifugal extractor. No. 1,151,992; Aug. 31; Gaz. vol. 217; p. 1498.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Cylinder washing-machine. No. 1,151,993; Aug. 31; Gaz. vol. 217; p. 1499.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Cylinder washing-machine. No. 1,151,994; Aug. 31; Gaz. vol. 217; p. 1499.
- Bartholomew, William O., *et al.* (See Martin, Stephen G., assignor.)
- Bartlebaugh, Benjamin C., Wheeling, W. Va. Gas-burner. No. 1,153,013; Sept. 7; Gaz. vol. 218; p. 232.
- Bartlebaugh, Benjamin C., Wheeling, W. Va. Gas-burner. No. 1,161,282; Nov. 23; Gaz. vol. 220; p. 1145.
- Bartlebaugh, Benjamin C., Wheeling, W. Va. Gas-stove. No. 1,166,313; Dec. 28; Gaz. vol. 221; p. 1380.
- Bartleson, C. A., *et al.*, executors. (See Mason, Frederick H.)
- Bartlett, Albion N., Harbor Springs, Mich. Spring-wheel. No. 1,165,647; Dec. 28; Gaz. vol. 221; p. 1143.
- Bartlett, Charles H., Cambridge, Mass. Holder for telephones and other articles. No. 1,161,762; Nov. 23; Gaz. vol. 220; p. 1310.
- Bartlett, Edwin E., Hyde Park, Mass. Arbor-press. No. 1,135,933; Apr. 20; Gaz. vol. 213; p. 756.
- Bartlett, Frank V., Detroit, Mich. Pruning-tool. No. 1,124,991; Jan. 12; Gaz. vol. 210; p. 673.
- Bartlett, Frederick W., Caldwell, N. J. Drying apparatus. No. 1,123,833; Jan. 5; Gaz. vol. 210; p. 216.
- Bartlett, Frederick W., Caldwell, N. J. Sealing-in machine. No. 1,124,386; Jan. 12; Gaz. vol. 210; p. 456.
- Bartlett, Frederick W., Caldwell borough, N. J. Crack-off machine. No. 1,135,652; Apr. 13; Gaz. vol. 213; p. 600.
- Bartlett, Frederick W., Caldwell borough, N. J. Silvering apparatus. No. 1,135,653; Apr. 13; Gaz. vol. 213; p. 600.
- Bartlett, Frederick W., Caldwell, N. J. Producing a vacuum in a metallic-walled chamber and sealing the same. No. 1,150,242; Aug. 17; Gaz. vol. 217; p. 794.
- Bartlett, Gad R. (See Dahill and Bartlett.)
- Bartlett, George W., Meredith, N. H. Timber-measuring device. No. 1,124,833; Jan. 12; Gaz. vol. 210; p. 618.
- Bartlett, George W., Spokane, Wash. Burner. No. 1,159,314; Nov. 2; Gaz. vol. 220; p. 315.
- Bartlett Hayward Company, The. (See Bruce, Howard, assignor.)
- Bartlett Hayward Company, The. (See Kuehn, Paul M., assignor.)
- Bartlett, Herbert D., *et al.* (See Wefel, William C. H., assignor.)
- Bartlett, Howard L., Devils Lake, N. D. Testing device for electric-current-translating devices, fuses, &c. No. 1,139,832; May 18; Gaz. vol. 214; p. 816.
- Bartlett, John H., Jr., Orange, N. J. Trunk. No. 1,147,918; July 27; Gaz. vol. 216; p. 1097.
- Bartlett, John H., Jr., Orange, N. J. Trunk. No. 1,147,919; July 27; Gaz. vol. 216; p. 1097.
- Bartlett, Leonard, assignor of one-half to M. J. Lynch, Chicago, Ill. Bottle cap or seal. No. 1,135,094; Apr. 13; Gaz. vol. 213; p. 405.
- Bartlett, Marcus M., Geneva, N. Y. Scythe. No. 1,133,423; Mar. 30; Gaz. vol. 212; p. 1423.
- Bartlett, Percy H. (See Goldensky and Bartlett.)
- Bartlett, Reginald C., South Porcupine, Ontario, Canada. Automobile construction. No. 1,124,687; Jan. 12; Gaz. vol. 210; p. 566.
- Bartlett, Reginald C., Toronto, Ontario, Canada. Vehicle construction. No. 1,156,875; Oct. 19; Gaz. vol. 219; p. 594.
- Bartley, George B., assignor of one-third to O. G. Twedell and one-third to R. Spoelstra, Detroit, Mich. Pump for vacuum cleaning systems. No. 1,138,617; May 11; Gaz. vol. 214; p. 351.
- Bartol, Michael J., Beaverdale, Pa. Telephone attachment for cars. No. 1,123,979; Jan. 5; Gaz. vol. 210; p. 265.
- Barton, Alfred, Marlboro, Mass. Shoe-toe heater. No. 1,155,196; Sept. 28; Gaz. vol. 218; p. 1090.
- Barton, Charles H., assignor of one-half to A. Woldert, Tyler, Tex. Fender. No. 1,137,829; May 4; Gaz. vol. 214; p. 37.
- Barton, Charles W. (See Ott and Barton.)
- Barton, Charles W., assignor to Spencer Lens Company, Buffalo, N. Y. Object-holder for projection apparatus. No. 1,158,429; Nov. 2; Gaz. vol. 220; p. 5.
- Barton, Edward H. R., Englewood, N. J. Photographic shutter. No. 1,141,681; June 1; Gaz. vol. 215; p. 211.
- Barton, Edward L., assignor to National Sewing Machine Company, Belvidere, Ill. Thread-take-up mechanism. No. 1,134,252; Apr. 6; Gaz. vol. 213; p. 62.
- Barton, Ella L. (See Stevens, William X., assignor.)
- Barton, Francis M., Chicago, Ill. Socket for concrete construction. No. 1,145,462; July 6; Gaz. vol. 216; p. 171.
- Barton, Francis M., Chicago, Ill. Reinforced-concrete building construction. No. 1,155,461; Oct. 5; Gaz. vol. 219; p. 48.
- Barton, Frederick C., Schenectady, N. Y., assignor to General Electric Company. Driving mechanism. No. 1,155,123; Sept. 28; Gaz. vol. 218; p. 1065.
- Barton, James W., Pequot, Minn. Wire-splicing tool. No. 1,136,760; Apr. 20; Gaz. vol. 213; p. 1032.
- Barton, Jesse H., Brownsville, Tenn. Automatic sash-lock. No. 1,133,217; Mar. 23; Gaz. vol. 212; p. 1314.
- Barton, Lionel V., and W. P. Thompson, Liverpool, England. Apparatus for making white lead. No. 1,152,693; Sept. 7; Gaz. vol. 218; p. 115.
- Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Composite titanic-oxid pigment and producing same. No. 1,155,462; Oct. 5; Gaz. vol. 219; p. 48.
- Barton, Richard J., *et al.* (See Wolstenholme, Charles, assignor.)
- Barton, Thomas E., Washington, D. C. Child's carriage. No. 1,157,610; Oct. 19; Gaz. vol. 219; p. 851.
- Barton, William B., assignor of one-half to D. W. Bills, Dowagiac, Mich. Bottle-holder. No. 1,151,920; Aug. 31; Gaz. vol. 217; p. 1474.
- Bartos, Michael, Rayland, Ohio. Elevator safety device. No. 1,151,854; Aug. 31; Gaz. vol. 217; p. 1451.
- Bartow, Edward C., Little Neck, N. Y. Rain-protector for wind-shields. No. 1,132,900; Mar. 23; Gaz. vol. 212; p. 1200.
- Bartram, Harold. (See Gillies and Bartram.)
- Bartsch, Hans, Zehlendorf, near Berlin, Germany. Planetary transmission-gearing. No. 1,124,834; Jan. 12; Gaz. vol. 210; p. 618.
- Baruch, Alphons, Hamburg, Germany. Holder for toilet-paper. No. 1,137,830; May 4; Gaz. vol. 214; p. 37.
- Baruch, Samuel, New York, N. Y. Waistband construction for garments. No. 1,151,333; Aug. 24; Gaz. vol. 217; p. 1225.
- Baruch, Samuel, New York, N. Y. Nut-protector. No. 1,154,960; Sept. 28; Gaz. vol. 218; p. 1007.
- Barwell, C. W., *et al.* (See Gamble, George R., assignor.)
- Barwick, James W., Thomasville, Ga. Hoe. No. 1,160,238; Nov. 16; Gaz. vol. 220; p. 728.
- Bary, Charles P., assignor to H. Debaugue, Paris, France. Purification of natural and regenerated caoutchoucs and other colloidal matters. No. 1,134,462; Apr. 20; Gaz. vol. 213; p. 925.
- Barzano & Zanardo, Ing. (See Gui, Emilio, assignor.)
- Basch, David, New York, N. Y. Collar-support. No. 1,133,457; Mar. 30; Gaz. vol. 212; p. 1435.

Alphabetical list of patentees—Continued.

- Basch, David, New York, N. Y. Hinge for ear-muffs. No. 1,149,806; Aug. 10; Gaz. vol. 217; p. 575.
- Basch, David, Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,154,359; Sept. 21; Gaz. vol. 218; p. 774.
- Bascom, Joseph D., St. Louis, Mo. Tow-line. No. 1,149,807; Aug. 10; Gaz. vol. 217; p. 575.
- Bash, Ambrose. (See Bash, Charles W. and A.)
- Bash, Charles W. and A., Kansas City, Kans. Grain-car door. No. 1,140,100; May 18; Gaz. vol. 214; p. 913.
- Bashelier, Frank M., Jenkintown, assignor to Keystone Type Foundry, Philadelphia, Pa. Dumping-truck. No. 1,145,740; July 6; Gaz. vol. 216; p. 268.
- Bashlin, William M., Grove City, Pa. Removing rosin and turpentine from resinous woods. No. 1,136,994; Apr. 27; Gaz. vol. 213; p. 1151.
- Bashor, Ulla O., Dorris, Cal. Gem-setting. No. 1,131,593; Mar. 9; Gaz. vol. 212; p. 641.
- Basile, David, Bridgeport, Conn. Life-boat. No. 1,141,755; June 1; Gaz. vol. 215; p. 235.
- Basile, David E., New Britain, Conn. Life-boat device. No. 1,133,700; Mar. 30; Gaz. vol. 212; p. 1525.
- Baskerville, Charles, New York, N. Y. Refining animal and vegetable oils. No. 1,130,698; Mar. 9; Gaz. vol. 212; p. 334.
- Baskerville, William L. (See Cline and Baskerville.)
- Baskin, Edwin T., Independence, Mo. Glove. No. 1,156,517; Oct. 12; Gaz. vol. 219; p. 440.
- Baskin, Edwin T., Independence, Mo. Waist-closure. No. 1,156,518; Oct. 12; Gaz. vol. 219; p. 441.
- Baskin, Edwin T., Independence, Mo. Glove. (Reissue.) No. 14,025; Dec. 7; Gaz. vol. 221; p. 314.
- Basler, George, assignor to Basler Machinery Company, Lynn, Mass. Sole flexing and tempering machine. No. 1,154,961; Sept. 28; Gaz. vol. 218; p. 1007.
- Basler Machinery Company. (See Basler, George, assignor.)
- Basman, Anthony M., Detroit, Mich. Ventilator-hood. No. 1,126,348; Jan. 26; Gaz. vol. 210; p. 1227.
- Basrek, Tomo, Harrisburg, Pa. Rail-joint. No. 1,126,349; Jan. 26; Gaz. vol. 210; p. 1228.
- Bass, Charles P., Los Angeles, Cal. Ratchet driving mechanism for cutters. No. 1,141,682; June 1; Gaz. vol. 215; p. 212.
- Bass, James W., et al. (See Forsgard, Edward F., assignor.)
- Bass, Rubin. (See Rosen, Hyman, assignor.)
- Bass, Rubin, Brooklyn, N. Y. Apparatus for pressing velvet. No. 1,127,580; Feb. 9; Gaz. vol. 211; p. 360.
- Bass, Rubin, Brooklyn, N. Y. Pressing-cloth. No. 1,159,156; Nov. 2; Gaz. vol. 220; p. 258.
- Bass, Rubin, Brooklyn, N. Y. Velvet-presser. No. 1,161,283; Nov. 23; Gaz. vol. 220; p. 1146.
- Bass, Willard S., Wilton, Me. Moccasin. No. 1,139,153; May 11; Gaz. vol. 214; p. 543.
- Bass, William A., Rio Vista, Tex. Electric fly-trap. No. 1,159,157; Nov. 2; Gaz. vol. 220; p. 259.
- Bass, William W., Middle Inlet, Wis. Calendar attachment for clocks. No. 1,139,474; May 18; Gaz. vol. 214; p. 690.
- Bassett, Elmer, Shelbyville, Ind. Water-power plant. No. 1,157,922; Oct. 26; Gaz. vol. 219; p. 1025.
- Bassett, Elmer C., Milton, assignor to The Reece Button Hole Machine Company, Boston, Mass. Controlling device for sewing-machines. No. 1,147,670; July 20; Gaz. vol. 216; p. 984.
- Bassett, Harry P., Catonsville, assignor to The Spar Chemical Company, Baltimore, Md. Recovering potash from potassium-iron silicates. No. 1,159,464; Nov. 9; Gaz. vol. 220; p. 401.
- Bassett, J. Colby. (See Wheaton, Carl M., assignor.)
- Bassett, Pliny E., Worcester, Mass. Device for overcoming vibration in spindles. No. 1,162,125; Nov. 30; Gaz. vol. 220; p. 1486.
- Bassett, Rufus C., Comanche, Tex. Knee-protector. No. 1,131,816; Mar. 16; Gaz. vol. 212; p. 757.
- Bassett, William E., Fresno, Cal. Self-laying traction-track. No. 1,144,284; June 22; Gaz. vol. 215; p. 1220.
- Bassford, Thomas, St. Thomas, Ontario, Canada. Boat doing away with oars and rudder. No. 1,133,788; Mar. 30; Gaz. vol. 212; p. 1555.
- Bast, Joseph, Houston, Tex. Window-mounting. No. 1,160,366; Nov. 16; Gaz. vol. 220; p. 772.
- Basten, Peter J. (See Lee, John, assignor.)
- Baster, Harry C., Benton Harbor, Mich. Machine for crimping paper and the like. No. 1,136,086; Apr. 20; Gaz. vol. 213; p. 790.
- Bastian, August H., Hillsdale, Oreg. Combined weeder and cultivator. No. 1,144,314; June 22; Gaz. vol. 215; p. 1230.
- Bastian, Charles L., Chicago, Ill. Fluid-pressure-regulating valve. No. 1,161,917; Nov. 30; Gaz. vol. 220; p. 1412.
- Bastian, Charles O., London, England. Electrical resistance. No. 1,160,488; Nov. 16; Gaz. vol. 220; p. 816.
- Bastian, Frederick G., Buffalo, N. Y. Automatic train-stop. No. 1,128,932; Feb. 16; Gaz. vol. 211; p. 883.
- Bataille, Achille F., New York, N. Y. Gate for elevator-shafts. No. 1,129,537; Feb. 23; Gaz. vol. 211; p. 1130.
- Batchelder, Charles A., St. Albans, Me. Last. No. 1,162,330; Nov. 30; Gaz. vol. 220; p. 1557.
- Batchelder, Elmer R. (See Gallant, John E., assignor.)
- Batchelder, Frank R., Worcester, Mass. Sheath or scabbard. No. 1,131,196; Mar. 9; Gaz. vol. 212; p. 504.
- Batchelder, Frank R., Worcester, Mass. Cartridge-belt. No. 1,139,629; May 18; Gaz. vol. 214; p. 744.
- Batchelder, Frank R., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven strap. No. 1,147,135; July 20; Gaz. vol. 216; p. 795.
- Batchelder, Fred A., Cambridge, Mass. Can-reshaping machine. No. 1,151,995; Aug. 31; Gaz. vol. 217; p. 1499.
- Batchelor, Telford C., Hay Mills, near Birmingham, England. Wire rope. No. 1,137,690; Apr. 27; Gaz. vol. 213; p. 1396.
- Batdorf, Charles S., Brooklyn, N. Y. Check-controlled liquid-dispensing apparatus. No. 1,135,251; Apr. 13; Gaz. vol. 213; p. 457.
- Batdorf, Charles S., Brooklyn, N. Y. Check-controlled dispensing apparatus. No. 1,135,252; Apr. 13; Gaz. vol. 213; p. 458.
- Batdorf, Charles S., Brooklyn, assignor to Automatic Coin-wrapping Machine Company, New York, N. Y. Paper tucking and wrapping mechanism. No. 1,130,244; Mar. 2; Gaz. vol. 212; p. 139.
- Batdorf, Charles S., Brooklyn, assignor to Automatic Coin-wrapping Machine Company, New York, N. Y. Coin-handling machine. No. 1,130,245; Mar. 2; Gaz. vol. 212; p. 140.
- Batdorf, Charles S., Brooklyn, assignor to Automatic Coin-wrapping Machine Company, New York, N. Y. Coin-package wrapper. No. 1,130,246; Mar. 2; Gaz. vol. 212; p. 140.
- Batdorf, Charles S., Brooklyn, assignor to Automatic Coin Wrapping Machine Company, New York, N. Y. Coin-separator. No. 1,149,615; Aug. 10; Gaz. vol. 217; p. 507.
- Bate, James, Detroit, Mich. Die-casting machine. No. 1,153,749; Sept. 14; Gaz. vol. 218; p. 528.
- Bateman, Adolphus J., et al. (See Akin, Willis H., assignor.)
- Bateman Manufacturing Company. (See Hart, Lewis A., assignor.)
- Bateman Manufacturing Company. (See Willis, Leland, assignor.)
- Bateman, Paul, Webster Groves, assignor to American Car and Foundry Company, St. Louis, Mo. Car-roof. No. 1,164,057; Dec. 14; Gaz. vol. 221; p. 508.
- Bateman, Thomas A. (See Hye, Campbell, and Bateman.)
- Bateman, William H. S. (See Matthews, Freeman, and Bateman.)
- Bater, Harold M., et al. (See Bostwick, Seymour A., assignor.)
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Ring-welding machine. No. 1,124,258; Jan. 12; Gaz. vol. 210; p. 409.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire-tying bags. No. 1,131,311; Mar. 9; Gaz. vol. 212; p. 544.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bagging-machine. No. 1,137,376; Apr. 27; Gaz. vol. 213; p. 1291.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-filling machine. No. 1,138,618; May 11; Gaz. vol. 214; p. 351.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-filling machine. No. 1,140,867; May 25; Gaz. vol. 214; p. 1214.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Making and filling bags. No. 1,143,801; June 22; Gaz. vol. 215; p. 1049.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-tying machine. No. 1,151,752; Aug. 31; Gaz. vol. 217; p. 1414.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-tie. No. 1,156,265; Oct. 12; Gaz. vol. 219; p. 351.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire tie. No. 1,158,957; Nov. 2; Gaz. vol. 220; p. 191.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire-tie-forming machine. No. 1,162,675; Nov. 30; Gaz. vol. 220; p. 1670.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-tie. No. 1,164,450; Dec. 14; Gaz. vol. 221; p. 646.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag. No. 1,164,451; Dec. 14; Gaz. vol. 221; p. 646.
- Bates, Albert H., East Cleveland, assignor to The American Multigraph Company, Cleveland, Ohio. Machine for printing addresses. No. 1,151,557; Aug. 31; Gaz. vol. 217; p. 1348.
- Bates, Arthur. (See Gouldbourn, Bates, and Jerram.)
- Bates, Arthur. (See Harris and Bates.)
- Bates, Arthur. (See Jerram, Gouldbourn, and Bates.)
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,124,195; Jan. 5; Gaz. vol. 210; p. 340.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for rendering soles flexible. No. 1,126,350; Jan. 26; Gaz. vol. 210; p. 1228.

Alphabetical list of patentees—Continued.

- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Sole-trimming machine. No. 1,129,058; Feb. 23; Gaz. vol. 211; p. 962.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for leveling the ends of tools. No. 1,129,059; Feb. 23; Gaz. vol. 211; p. 963.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,140,349; May 25; Gaz. vol. 214; p. 1031.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,141,302; June 1; Gaz. vol. 215; p. 77.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for handling articles. No. 1,142,136; June 8; Gaz. vol. 215; p. 403.
- Bates, Arthur, and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 1,123,219; Jan. 5; Gaz. vol. 210; p. 5.
- Bates, Arthur, and A. S. Kemp, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Folding-machine. No. 1,160,127; Nov. 16; Gaz. vol. 220; p. 690.
- Bates, Carl F. W., *et al.* (See Gebauer, Theophil H., assignor.)
- Bates, Charles G., London, England, assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven fabric and weaving the same. No. 1,132,508; Mar. 16; Gaz. vol. 212; p. 1008.
- Bates, Charles T. (See Rexroat, George P., assignor.)
- Bates, Clarence A., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,127,379; Feb. 2; Gaz. vol. 211; p. 249.
- Bates, Clifford V., Chicago, Ill. Shock-absorber. No. 1,154,599; Sept. 28; Gaz. vol. 218; p. 884.
- Bates, Eddo V., Lowell, Mass. Breast for carding-machines. No. 1,162,846; Dec. 7; Gaz. vol. 221; p. 40.
- Bates, Eddo V., assignor to Bates & Robinson Machine Company, Lowell, Mass. Carding-engine. No. 1,160,367; Nov. 16; Gaz. vol. 220; p. 772.
- Bates, Edward T., Washington, D. C. Nut-lock. No. 1,143,247; June 15; Gaz. vol. 215; p. 835.
- Bates, Ernest M., and F. Phillips, London, England, assignors to The National Cash Register Company, Dayton, Ohio. Register-concealing mechanism. No. 1,135,149; Apr. 13; Gaz. vol. 213; p. 425.
- Bates, Franklin P., Indianapolis, Ind. Forging-machine. No. 1,151,753; Aug. 31; Gaz. vol. 217; p. 1415.
- Bates, George, *et al.* (See Clemons, James H., assignor.)
- Bates, George M., Lebanon, Mo. Farm-gate. No. 1,155,463; Oct. 5; Gaz. vol. 219; p. 48.
- Bates, Harry, East Orange, N. J., and A. G. Kurowski, assignors to Underwood Typewriter Company, New York, N. Y. Stand for type-writing machines. No. 1,139,833; May 18; Gaz. vol. 214; p. 816.
- Bates, Harry, West Copake, and C. E. Smith, assignors to Underwood Typewriter Company, New York, N. Y. Automatic centering-scale for type-writers. No. 1,146,393; July 13; Gaz. vol. 216; p. 516.
- Bates, Harry A., Galesburg, Ill. Telephone. No. 1,129,840; Mar. 2; Gaz. vol. 212; p. 3.
- Bates, Henri L., Springfield, Mass. Air-tight-surface-forming compound. No. 1,129,268; Feb. 23; Gaz. vol. 211; p. 1036.
- Bates, Henry A., Middletown, Conn. Wax thread and making the same. No. 1,132,150; Mar. 16; Gaz. vol. 212; p. 877.
- Bates, J. M., *et al.* (See Engle, William G., assignor.)
- Bates, John, Turlock, Cal. Ditch-guard. No. 1,153,186; Sept. 14; Gaz. vol. 218; p. 328.
- Bates, John C., Lake City, Fla. Plant and tree digger. No. 1,162,126; Nov. 30; Gaz. vol. 220; p. 1487.
- Bates, John S. (See Whitaker and Bates.)
- Bates, John T., Pittsburgh, Pa. Furnace-hotting apparatus. No. 1,154,281; Sept. 21; Gaz. vol. 218; p. 747.
- Bates, Joseph W. (See Blake and Bates.)
- Bates, Madison F., Lansing, Mich. Carbureter. No. 1,160,239; Nov. 16; Gaz. vol. 220; p. 728.
- Bates Manufacturing Company. (See Scotford, Louis K., assignor.)
- Bates, Milton B. and S. T. Hohenwald, Tenn. Gasolene-engine. No. 1,129,375; Feb. 23; Gaz. vol. 211; p. 1073.
- Bates, Ralph E., assignor to J. Nazel, Philadelphia, Pa. Mechanism for applying flexible strips. No. 1,132,901; Mar. 23; Gaz. vol. 212; p. 1200.
- Bates & Robinson Machine Company. (See Bates, Eddo V., assignor.)
- Bates, Samuel T. (See Bates, Milton B. and S. T.)
- Bates, Thomas W., *et al.* (See Whitaker, Samuel T., assignor.)
- Bates, Uri C., and J. McLeland, Seattle, Wash. Surgica apparatus. No. 1,157,202; Oct. 19; Gaz. vol. 219; p. 711.
- Bates Valve Bag Company. (See Bates, Adelmor M., assignor.)
- Bateson, Charles E. W., New York, N. Y., assignor to Standard Knitting Mills Company, Union suit. No. 1,135,253; Apr. 13; Gaz. vol. 213; p. 459.
- Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Clam-shell excavating-machine. No. 1,162,740; Dec. 7; Gaz. vol. 221; p. 4.
- Bathrick, Ellsworth R., Akron, Ohio. Exercising apparatus. No. 1,142,137; June 8; Gaz. vol. 215; p. 407.
- Bathurst, Thomas T., *et al.* (See Clark, Has., assignor.)
- Bathurst, Thomas T., Kansas City, Kans. Storing and dispensing apparatus. No. 1,127,391; Feb. 9; Gaz. vol. 211; p. 294.
- Batla, Thomas H., Temple, Tex. Fish-grapple. No. 1,148,740; Aug. 3; Gaz. vol. 217; p. 93.
- Batsford, Cramer. (See Batsford, Sterling B., assignor.)
- Batsford, Sterling B. (See Reist and Batsford.)
- Batsford, Sterling B., Berkeley, assignor of one-third to C. Batsford, Oakland, Cal. Spaceband buffer-finger and drag for line-casting machines. No. 1,124,688; Jan. 12; Gaz. vol. 210; p. 566.
- Batsford, Sterling B., Berkeley, assignor of one-third to C. Batsford, Oakland, Cal. Line-casting stop device for type-casting machines. No. 1,124,689; Jan. 12; Gaz. vol. 210; p. 566.
- Batsner, Arthur M., Dayton, Ohio. Clutch-control and gear-shifting apparatus. No. 1,127,581; Feb. 9; Gaz. vol. 211; p. 360.
- Batt, John B., North Tonawanda, assignor to The Central Foundry Company, New York, N. Y. Closure for pipes. No. 1,148,567; Aug. 3; Gaz. vol. 217; p. 30.
- Batt, William L., Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Co. Cage for ball-bearings. No. 1,144,989; July 6; Gaz. vol. 216; p. 4.
- Battaglia, Orlando F., New York, N. Y. Electric water-fountain. No. 1,136,995; Apr. 27; Gaz. vol. 213; p. 1151.
- Batten, John H., Wichita, Kans. Rall-brace. No. 1,147,671; July 20; Gaz. vol. 216; p. 984.
- Batten, Percy H., assignor, by mesne assignments, to The Hewitt Company, Chicago, Ill. Metallic packing. No. 1,138,178; May 4; Gaz. vol. 214; p. 161.
- Batterman, Herman E., Chicago, Ill. Register. No. 1,143,802; June 22; Gaz. vol. 215; p. 1050.
- Battershall, Fletcher W., Albany, N. Y. Photographic-film apparatus. No. 1,148,139; July 27; Gaz. vol. 216; p. 1177.
- Battisti, Enrico, Rome, Italy. Fastening device for wearing-apparel. No. 1,129,624; Feb. 23; Gaz. vol. 211; p. 1162.
- Battisti, Enrico, Rome, Italy. Fastening device. No. 1,152,778; Sept. 7; Gaz. vol. 218; p. 146.
- Batton, William E., Mooringsport, La. Vacuum gas-burner. No. 1,126,939; Feb. 2; Gaz. vol. 211; p. 96.
- Battu, Leonce L., New York, N. Y. Steam-regenerator. No. 1,128,837; Feb. 16; Gaz. vol. 211; p. 849.
- Battu, Leonce L., assignor to Slag Steam Generator Company, New York, N. Y. Slag steam-generator. No. 1,135,984; Apr. 20; Gaz. vol. 213; p. 757.
- Battu, Leonce L., assignor to Slag Steam Generator Company, New York, N. Y. Slag steam-generator. No. 1,145,178; July 6; Gaz. vol. 216; p. 71.
- Battu, Leonce L., assignor to Rateau Steam Regenerator Company, New York, N. Y. Steam-regenerative accumulator. No. 1,140,435; May 25; Gaz. vol. 214; p. 1063.
- Baty, Edward N., Des Moines, Iowa. Rotary engine. No. 1,131,459; Mar. 9; Gaz. vol. 212; p. 595.
- Baty, George, Brooklyn, and R. M. Ryan, New York, N. Y. Incandescent gas-burner. No. 1,138,833; May 11; Gaz. vol. 214; p. 430.
- Batzle, Louis J., *et al.* (See Ames, James W., assignor.)
- Bauch, Kurt. (See Uhlig and Bauch.)
- Bauchet, Henry, Reibel, France. Clutch mechanism for motor haulage-vehicles. No. 1,153,014; Sept. 7; Gaz. vol. 218; p. 232.
- Baecom, Henry B., Marshallville, N. C. Plow-stock shield. No. 1,138,273; May 4; Gaz. vol. 214; p. 193.
- Baecom, Jesse A., Raeford, N. C. Motor-vehicle steering-gear. No. 1,136,503; Apr. 20; Gaz. vol. 213; p. 941.
- Bauer, Adolph H., New York, N. Y. Card system. No. 1,142,007; June 8; Gaz. vol. 215; p. 360.
- Bauer & Black. (See Bauer, Perry S., assignor.)
- Bauer & Black. (See Schulz, Otto C., assignor.)
- Bauer, Carl, Wolfe, W. Va. Toilet-stand. No. 1,156,519; Oct. 12; Gaz. vol. 219; p. 441.
- Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Brake-head. No. 1,135,490; Apr. 13; Gaz. vol. 213; p. 541.
- Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Spring-dampener. No. 1,140,101; May 18; Gaz. vol. 214; p. 913.
- Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Brake-beam. No. 1,151,650; Aug. 31; Gaz. vol. 217; p. 1380.
- Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Built-up slide frame. No. 1,157,832; Oct. 26; Gaz. vol. 219; p. 993.
- Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Forging fulcrums. No. 1,157,833; Oct. 26; Gaz. vol. 219; p. 994.
- Bauer, Conrad, Pittsburgh, Pa. Screen. No. 1,130,465; Mar. 2; Gaz. vol. 212; p. 219.

Alphabetical list of patentees—Continued.

- Bauer, Conrad, Pittsburgh, Pa. Screen. No. 1,153,015; Sept. 7; Gaz. vol. 218; p. 232.
- Bauer, Edward H., Washington, D. C. Primer for gas-engines. No. 1,155,871; Oct. 5; Gaz. vol. 219; p. 191.
- Bauer, Edwin, assignor to Franz Bauer & Söhne, A.-G., Zurich, Switzerland. Armor-plating for safes, strong-rooms, and the like. No. 1,132,902; Mar. 23; Gaz. vol. 212; p. 1200.
- Bauer, Eugen, assignor to Firm of R. Bosch, Stuttgart, Germany. Spark-plug for internal-combustion engines. No. 1,127,390; Feb. 9; Gaz. vol. 211; p. 293.
- Bauer, Harry A., Lansdowne, Pa. Support for indirect or semi-indirect lighting fixtures. No. 1,144,095; June 22; Gaz. vol. 215; p. 1153.
- Bauer, Henry, Buffalo, N. Y. Weather-strip for doors. No. 1,145,539; July 6; Gaz. vol. 216; p. 197.
- Bauer, Isaac, Hartford, assignor to The New England Enameling Company, Middletown, Conn. Teapot. No. 1,123,467; Jan. 5; Gaz. vol. 210; p. 93.
- Bauer, John, Louisville, Ky. Propeller. No. 1,144,580; June 29; Gaz. vol. 215; p. 1348.
- Bauer, Leo. (See Knight and Bauer.)
- Bauer, Louis P., Pekin, Ill. Evaporating apparatus. No. 1,143,743; June 22; Gaz. vol. 215; p. 1029.
- Bauer, Louis P., Pekin, Ill. Evaporating apparatus. No. 1,143,744; June 22; Gaz. vol. 215; p. 1030.
- Bauer, Louis P., Pekin, Ill. Apparatus and process for purifying starch. No. 1,161,826; Nov. 30; Gaz. vol. 220; p. 1379.
- Bauer, Oscar, New York, N. Y. Universal stoneworking-machine. (Reissue.) No. 13,918; May 18; Gaz. vol. 214; p. 997.
- Bauer, Oscar, New York, N. Y. Universal stoneworking-machine. No. 1,146,684; July 13; Gaz. vol. 216; p. 619.
- Bauer, Perry S., assignor to Bauer & Black, Chicago, Ill. Adhesive-plaster container. No. 1,166,352; Dec. 28; Gaz. vol. 221; p. 1393.
- Bauer, Wilhelm, and A. Herre, Opladen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Red vat dye. No. 1,147,778; July 27; Gaz. vol. 216; p. 1047.
- Bauer, William C., Evanston, Ill. Electric battery. No. 1,134,093; Apr. 6; Gaz. vol. 213; p. 4.
- Bauer, William C., assignor of one-half to J. R. C. Jensen, Neenah, Wis. Paper-making-machine slice. No. 1,150,328; Aug. 17; Gaz. vol. 217; p. 823.
- Bauer, William N., Cincinnati, Ohio. Egg-conveyer. No. 1,134,807; Apr. 6; Gaz. vol. 213; p. 263.
- Bauer, William N., assignor of one-half to A. C. Kaufmann, Cincinnati, Ohio. Guide for trolleys for trolley-wheels of overhead trolleys for electric cars. No. 1,165,309; Dec. 21; Gaz. vol. 221; p. 985.
- Bauerle, John, assignor to The Hauser-Stander Tank Company, Cincinnati, Ohio. Silo. No. 1,143,164; June 15; Gaz. vol. 215; p. 804.
- Baurs, Clarence D. (See Miller, Frank W., assignor.)
- Baursfeld, Walther, assignor to Firm of C. Zeiss, Jena, Germany. Copying device. No. 1,138,347; May 4; Gaz. vol. 214; p. 220.
- Baursfeld, Walther, assignor to Firm of C. Zeiss, Jena, Germany. Stereo-isohypsograph. No. 1,151,996; Aug. 31; Gaz. vol. 217; p. 1499.
- Baursfeld, Walther, assignor to Firm of C. Zeiss, Jena, Germany. Cinematographic apparatus. No. 1,154,835; Sept. 28; Gaz. vol. 218; p. 965.
- Baugh, William T., Madison, Ga. Window-cleaner. No. 1,139,834; May 18; Gaz. vol. 214; p. 817.
- Baughman, George H., and E. J. Semradek, Chicago, Ill. Clamp for sales-book pads. No. 1,156,876; Oct. 19; Gaz. vol. 219; p. 595.
- Baughman, John U., *et al.* (See Pearson, James H., assignor.)
- Bankin, Peter, assignor to C. Mattison Machine Works, Beloit, Wis. Rubbing or polishing machine. No. 1,135,491; Apr. 13; Gaz. vol. 213; p. 542.
- Baum, Albert J., assignor to A. Wanner, Jr., New York, N. Y. Seat-securing device for chairs. No. 1,162,281; Nov. 30; Gaz. vol. 220; p. 1540.
- Baum, Edwin P., Keokuk, Iowa. Oil-filter. No. 1,135,150; Apr. 13; Gaz. vol. 213; p. 426.
- Baum, Edwin W., Nokomis, Ill. Shock-absorber. No. 1,130,055; Mar. 2; Gaz. vol. 212; p. 74.
- Baum, Louis J., East Orange, N. J. Nozzle. No. 1,157,973; Oct. 26; Gaz. vol. 219; p. 1044.
- Bauman, George C., Chicago, Ill. Cutting, counting, and packaging machine. No. 1,134,941; Apr. 6; Gaz. vol. 213; p. 305.
- Bauman, Herman, New York, N. Y. Ash and garbage can. No. 1,135,426; Apr. 13; Gaz. vol. 213; p. 519.
- Bauman, Paul H., Battle Creek, Mich. Boot-scraper. No. 1,132,646; Mar. 23; Gaz. vol. 212; p. 1107.
- Bauman, Paul H., Battle Creek, Mich. Boot-scraper. No. 1,154,228; Sept. 21; Gaz. vol. 218; p. 728.
- Baummann, Adolph, and A. Sommerfeld, New York, N. Y. Garbage-can. No. 1,158,958; Nov. 2; Gaz. vol. 220; p. 192.
- Baummann, Gottfried, Heaton Mersey, England. Cycle-lock. No. 1,137,691; Apr. 27; Gaz. vol. 213; p. 1396.
- Baummann, Karl. (See Scanes and Baumann.)
- Baumeister, Christian H., Des Moines, Iowa. Display-rack for whips. No. 1,140,102; May 18; Gaz. vol. 214; p. 913.
- Baumer, Clarence E., and J. Correy, Troy, Ohio. Safety appliance for railway-trains. No. 1,131,594; Mar. 9; Gaz. vol. 212; p. 641.
- Baumgardt, Max W., Steubenville, Ohio. Shade and curtain fixture. No. 1,151,921; Aug. 31; Gaz. vol. 217; p. 1474.
- Baumgartl, Leroy, Chicago, Ill. Roof or floor structure. No. 1,140,731; May 25; Gaz. vol. 214; p. 1164.
- Baumgartner, Charles G., Chicago, Ill. Ore-pocket door. No. 1,140,436; May 25; Gaz. vol. 214; p. 1063.
- Baumgartner, Herman E., Osage, Iowa. Apparatus for cooling or agitating air. No. 1,133,255; Mar. 30; Gaz. vol. 212; p. 1364.
- Baumstark, Guisepe J., Bradley Beach, N. J. Internal-combustion engine. No. 1,151,855; Aug. 31; Gaz. vol. 217; p. 1452.
- Baur, Edward J., St. Louis, Mo. Ash-receptacle. No. 1,160,820; Nov. 16; Gaz. vol. 220; p. 935.
- Baur, Frederick J., Lucas county, assignor of one-third to J. Kohn and one-third to S. Kohn, Toledo, Ohio. Rate-finder. No. 1,129,033; Feb. 16; Gaz. vol. 211; p. 919.
- Baur, Hugo J. (See Johnson and Baur.)
- Baur, Hugo J., assignor to J. M. Johnson, Chicago, Ill. Total-adding fare-register. No. 1,163,881; Dec. 14; Gaz. vol. 221; p. 446.
- Bauroth, Leonhard, Toledo, Ohio, assignor to C. H. Wacker, Chicago, Ill. Sheet-metal-shaping means. No. 1,129,625; Feb. 23; Gaz. vol. 211; p. 1162.
- Bauroth, Leonhard, Toledo, Ohio, assignor to C. H. Wacker, Chicago, Ill. Sheet-metal-shaping means. No. 1,129,626; Feb. 23; Gaz. vol. 211; p. 1162.
- Bauroth, Walter J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric motor. No. 1,125,039; Jan. 19; Gaz. vol. 210; p. 725.
- Baus, Floyd. (See Korteum and Baus.)
- Bausch & Lomb Optical Company. (See Kandler, Edmund, assignor.)
- Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)
- Bausch & Lomb Optical Company. (See Saegmuller, George N., assignor.)
- Bausch Machine Tool Company. (See Cannell, William, assignor.)
- Bausch Machine Tool Company. (See Eden, James A., Jr., assignor.)
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Chocolate-tempering machine. No. 1,141,683; June 1; Gaz. vol. 215; p. 212.
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Conveyer-belt for confectionery-machines. No. 1,141,861; June 1; Gaz. vol. 215; p. 269.
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Continuous cooker. No. 1,141,862; June 1; Gaz. vol. 215; p. 270.
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Brush-lined sieve. No. 1,141,863; June 1; Gaz. vol. 215; p. 270.
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Coating-machine. No. 1,160,991; Nov. 16; Gaz. vol. 220; p. 995.
- Bausmith, William P. (See Ludlow and Bausmith.)
- Bautzner Industriewerk, Aktiengesellschaft. (See John, Otto, assignor.)
- Bauwens, Seraphine F., Chicago, Ill. Box-blank machine. No. 1,131,460; Mar. 9; Gaz. vol. 212; p. 596.
- Bauwens, Seraphine F., Chicago, Ill. Box-machine. No. 1,142,008; June 8; Gaz. vol. 215; p. 360.
- Bawel, Edward H., Boonville, Ind. Harrow. No. 1,140,564; May 25; Gaz. vol. 214; p. 1110.
- Baxter, Berry A., assignor to New Method Stove Company, Mansfield, Ohio. Making hinges for stove-doors or the like. No. 1,143,023; June 15; Gaz. vol. 215; p. 755.
- Baxter, Cad C. (See Christopher, Walter B., assignor.)
- Baxter, George L., Salt Lake City, Utah. Wrench. No. 1,157,834; Oct. 26; Gaz. vol. 219; p. 994.
- Baxter, Irving K., Utica, N. Y. Pump. No. 1,159,350; Nov. 9; Gaz. vol. 220; p. 359.
- Baxter, John B., assignor to Covert Manufacturing Company, Watervliet, N. Y. Snap-hook. No. 1,134,310; Apr. 6; Gaz. vol. 213; p. 83.
- Baxter, John B., assignor to Covert Manufacturing Company, Watervliet, N. Y. Bolt snap-hook. No. 1,134,311; Apr. 6; Gaz. vol. 213; p. 84.
- Baxter, John B., assignor to Covert Manufacturing Co., Troy, N. Y. Harness-trace. No. 1,137,692; Apr. 27; Gaz. vol. 213; p. 1396.
- Baxter, John H., Sligo, Colo. Pipe and rod clamp. No. 1,137,693; Apr. 27; Gaz. vol. 213; p. 1396.
- Baxter, Leonidas, assignor to The Thomas Manufacturing Company, Dayton, Ohio. Hydrocarbon lamp. No. 1,144,684; June 29; Gaz. vol. 215; p. 1384.
- Baxter, Leonidas, assignor to The Thomas Manufacturing Company, Dayton, Ohio. Hydrocarbon-lantern. No. 1,155,464; Oct. 5; Gaz. vol. 219; p. 49.
- Baxter Stove Company, The. (See Dirlam and Pritschau, assignors.)
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,123,220; Jan. 5; Gaz. vol. 210; p. 6.
- Bay City Iron Co. (See Burman, Frank V., assignor.)

Alphabetical list of patentees—Continued.

- Bay, Evelyn U. (See Hutchison and Bay.)
 Bay State Metal Wheel Company. (See Turner, Ora N., assignor.)
 Bayerl, Robert F. (See Hoffman, Koegele, and Bayerl.)
 Bayle, Burdette S., Ambridge, Pa. Paper-holder. No. 1,157,286; Oct. 19; Gaz. vol. 219; p. 742.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tools. No. 1,126,940; Feb. 2; Gaz. vol. 211; p. 96.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front-head construction for self-rotating hammer-drills. No. 1,126,941; Feb. 2; Gaz. vol. 211; p. 97.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front-head construction for self-rotating hammer-drills. No. 1,126,942; Feb. 2; Gaz. vol. 211; p. 97.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,126,943; Feb. 2; Gaz. vol. 211; p. 97.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive tool. No. 1,126,944; Feb. 2; Gaz. vol. 211; p. 98.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front-head construction for self-rotating hammer-drills. No. 1,130,957; Mar. 9; Gaz. vol. 212; p. 421.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Percussive tool. No. 1,134,718; Apr. 6; Gaz. vol. 213; p. 233.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Percussive tool. No. 1,138,179; May 4; Gaz. vol. 214; p. 161.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Percussive tool. No. 1,142,478; June 8; Gaz. vol. 215; p. 527.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Pulsatory percussive drill. No. 1,144,990; July 6; Gaz. vol. 216; p. 4.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Exhaust-closing valve for hollow steel percussive drills. No. 1,144,991; July 6; Gaz. vol. 216; p. 4.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation mechanism for percussive drills. No. 1,148,049; Aug. 3; Gaz. vol. 217; p. 60.
 Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Flow-controlling valve for conduits. No. 1,154,962; Sept. 28; Gaz. vol. 218; p. 1007.
 Bayless, Patrick A., Oklahoma, Okla., assignor, by mesne assignments, to Sanitary Vacuum Street Cleaner Company of America. Vacuum street-cleaner. No. 1,151,856; Aug. 31; Gaz. vol. 217; p. 1453.
 Bayless, William K., Lexington, Ky. Banana-crate. No. 1,125,255; Jan. 19; Gaz. vol. 210; p. 803.
 Bayley, George W., New York, assignor to Bayley & Sons, Inc., Brooklyn, N. Y. Electric-lighting fixture. No. 1,156,454; Oct. 12; Gaz. vol. 219; p. 418.
 Bayley, Mary A., executrix. (See Bayley, Perry H.)
 Bayley, Perry H., deceased, West Alexandria, Ohio; M. A. Bayley, executrix. Gaseous-fuel mixer. No. 1,139,747; May 18; Gaz. vol. 214; p. 785.
 Bayley & Sons. (See Bayley, George W., assignor.)
 Bayley, William, Springfield, Ohio. Interlocking joint for sash-bars. No. 1,136,087; Apr. 20; Gaz. vol. 213; p. 791.
 Bayley, William, Springfield, Ohio. Music-sheet. No. 1,152,926; Sept. 7; Gaz. vol. 218; p. 201.
 Bayley, William, Springfield, Ohio. Swinging window-sash. No. 1,152,927; Sept. 7; Gaz. vol. 218; p. 201.
 Baylis, Everest A., Madera, Mexico, assignor to J. A. McMahon, El Paso, Tex. Protective covering for concentrator-tables and applying the same. (Reissue.) No. 13,981; Sept. 21; Gaz. vol. 218; p. 855.
 Baylson, J. Jacob. (See Rosenthal, Harry, assignor.)
 Bayly, Taver, assignor of one-half to D. Alvord, Clearwater, Fla. Tire-inflating device. No. 1,165,057; Dec. 21; Gaz. vol. 221; p. 897.
 Bayne, George G., Tulsa, Okla. Heater for freight-cars. No. 1,164,058; Dec. 14; Gaz. vol. 221; p. 509.
 Bayne, John, Wheeling, W. Va. Internal-combustion engine. No. 1,133,458; Mar. 30; Gaz. vol. 212; p. 1435.
 Baynes, Cyril. (See Hall and Baynes.)
 Baynton, Charles S., Birmingham, England. Apparatus for washing photographic prints, films, and such like. No. 1,124,196; Jan. 5; Gaz. vol. 210; p. 341.
 Bays, George R., Michigan City, Ind., and J. T. Bays, Kalamazoo, Mich. Wrench. No. 1,160,128; Nov. 16; Gaz. vol. 220; p. 690.
 Bays, John T. (See Bays, George R. and J. T.)
 Baysore, Amos H., Canton, S. D. Conveyor pipe and spout. No. 1,124,259; Jan. 12; Gaz. vol. 210; p. 410.
 Bazaine, Léon, Issy-les-Moulineaux, France. Hydroplane. No. 1,125,794; Jan. 19; Gaz. vol. 210; p. 996.
 Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,128,652; Feb. 16; Gaz. vol. 211; p. 784.
 Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,144,315; June 22; Gaz. vol. 215; p. 1231.
 Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,144,317; June 22; Gaz. vol. 215; p. 1232.
 Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,152,138; Aug. 31; Gaz. vol. 217; p. 1548.
 Bazemore, Merrill A., assignor of one-half to H. L. Howard, Sylvania, Ga. Hay-stacker. No. 1,125,795; Jan. 19; Gaz. vol. 210; p. 996.
 Bazille, Marcel, Angers, France. Safety-lock for car-doors. No. 1,127,721; Feb. 9; Gaz. vol. 211; p. 410.
 Bazino, Charles A., North Bennington, Vt. Blower for knitting-machines. No. 1,141,034; May 25; Gaz. vol. 214; p. 1271.
 Bazley, William H., Everett, Mass. Sausage-stuffing machine. No. 1,130,661; Mar. 2; Gaz. vol. 212; p. 286.
 Bazzoni, Lewis J., Swampscott, and J. J. Gillespie, Boston, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Molding-machine. No. 1,145,397; July 6; Gaz. vol. 216; p. 147.
 Beabes, Harvey J., assignor to Somerset Door and Column Company, Somerset, Pa. Wooden column. No. 1,126,351; Jan. 26; Gaz. vol. 210; p. 1228.
 Beach, Charles, Muscatine, Iowa. Detachable handle for receptacles. No. 1,143,484; June 15; Gaz. vol. 215; p. 917.
 Beach, Charles M., Martel, Ohio. Draft-tongue coupling. No. 1,156,342; Oct. 12; Gaz. vol. 219; p. 377.
 Beach, Clarence E., Binghamton, assignor to G. O. Knapp, New York, N. Y. Apparatus for testing storage-battery circuits. (Reissue.) No. 13,858; Jan. 5; Gaz. vol. 210; p. 358.
 Beach, Clarence E., Binghamton, assignor to G. O. Knapp, New York, N. Y. Telltale system for electric circuits. No. 1,134,435; Apr. 6; Gaz. vol. 213; p. 128.
 Beach, Clarence E., Binghamton, assignor to G. O. Knapp, New York, N. Y. Signaling system. No. 1,135,427; Apr. 13; Gaz. vol. 213; p. 520.
 Beach, Edward S., Ridgefield, Conn. Motor-tricycle. No. 1,139,835; May 18; Gaz. vol. 214; p. 817.
 Beach, Edward S., Ridgefield, Conn., assignor to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Cotton-harvester. No. 1,135,096; Apr. 13; Gaz. vol. 213; p. 406.
 Beach, Edward W., Waterbury, Conn. Foundry-riddle. No. 1,131,768; Mar. 16; Gaz. vol. 212; p. 738.
 Beach, Edward W., Winnetka, Ill. Centrifugal separator. No. 1,158,959; Nov. 2; Gaz. vol. 220; p. 192.
 Beach, George F., assignor to Mires Fuel-Oil Equipment Company, Incorporated, Norfolk, Va. Furnace or forge. No. 1,140,350; May 25; Gaz. vol. 214; p. 1032.
 Beach, George F., assignor to Mires Fuel-Oil Equipment Company, Incorporated, Norfolk, Va. Hydrocarbon-burner. No. 1,161,183; Nov. 23; Gaz. vol. 220; p. 1109.
 Beach, George H., Litchfield, Minn. Tension device for scissors and shears. No. 1,148,429; July 27; Gaz. vol. 216; p. 1278.
 Beach, Harry L., Coshocton, Ohio. Thermometer. No. 1,132,426; Mar. 16; Gaz. vol. 212; p. 977.
 Beach, Howard L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of electric-motor control. No. 1,155,197; Sept. 28; Gaz. vol. 218; p. 1090.
 Beach, Howard L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,156,656; Oct. 12; Gaz. vol. 219; p. 490.
 Beach, Howard L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system for electric motors. No. 1,157,203; Oct. 19; Gaz. vol. 219; p. 711.
 Beach, John A. (See Matheson, Robert, assignor.)
 Beach, Robert O., assignor of one-half to E. W. Weiland, San Francisco, Cal. Sash-lock. No. 1,137,302; Apr. 27; Gaz. vol. 213; p. 1264.
 Beach, Sidney C., Jr., and J. R. Hagan, Jr., Huntington, W. Va. Gas-burner. No. 1,165,488; Dec. 28; Gaz. vol. 221; p. 1087.
 Beacon Falls Rubber Shoe Company, The. (See Crowley, John T., assignor.)
 Beacon Falls Rubber Shoe Company, The. (See Warner, Lewis C., assignor.)
 Beacon Miniature Electric Co. (See Kaplan, Morduch L., assignor.)
 Beadle, George W. (See Beatty, Wallace A., assignor.)
 Beadle, George W., Bayonne, N. J. Machine for making paper cups. No. 1,135,986; Apr. 20; Gaz. vol. 213; p. 758.
 Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for simultaneously crimping a plurality of bottles. No. 1,125,040; Jan. 19; Gaz. vol. 210; p. 725.
 Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Carton-capping machine. No. 1,125,041; Jan. 19; Gaz. vol. 210; p. 725.

Alphabetical list of patentees—Continued.

- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for crimping paper cartons. No. 1,125,042; Jan. 19; Gaz. vol. 210; p. 726.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for automatically capping cartons. No. 1,125,043; Jan. 19; Gaz. vol. 210; p. 726.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Manufacturing compo-board. No. 1,125,445; Jan. 19; Gaz. vol. 210; p. 872.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for closing paper cartons. No. 1,133,425; Mar. 30; Gaz. vol. 212; p. 1424.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for capping cartons. No. 1,133,426; Mar. 30; Gaz. vol. 212; p. 1425.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for making carton-bodies. No. 1,133,913; Mar. 30; Gaz. vol. 212; p. 1598.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for making paper cartons. No. 1,134,808; Apr. 6; Gaz. vol. 213; p. 264.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Drying and cooling attachment for paraffining machines. No. 1,134,809; Apr. 6; Gaz. vol. 213; p. 264.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for drying cartons. No. 1,135,985; Apr. 20; Gaz. vol. 213; p. 757.
- Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Rendering paper bottles liquid-tight. No. 1,154,282; Sept. 21; Gaz. vol. 218; p. 747.
- Beadle, George W., Montclair, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Crimping-machine for cartons. No. 1,133,424; Mar. 30; Gaz. vol. 212; p. 1423.
- Beadle, George W., East Orange, N. J., assignor to Westinghouse Lamp Company. Welding-machine. No. 1,153,283; Sept. 14; Gaz. vol. 218; p. 362.
- Beadle, George W., New York, N. Y., assignor of ten one-hundredths to D. Smith, Lake Forest, and ten one-hundredths to E. P. Russell, Chicago, Ill. Detachable bottle-cap. No. 1,153,477; Sept. 14; Gaz. vol. 218; p. 432.
- Beadle, Warren E., Grand Rapids, Wis. Bark-rossing machine. No. 1,139,012; May 11; Gaz. vol. 214; p. 493.
- Beadle, Warren E., Brook, Wis., assignor to Samuel M. Langston Company, Camden, N. J. Stop mechanism for winding machines. No. 1,124,260; Jan. 12; Gaz. vol. 210; p. 410.
- Beadling, Thomas. (See Clark and Beadling.)
- Beadman, Joseph B., Keighley, and H. J. Macklin, Ulverston, England. Journal-box. No. 1,130,876; Mar. 9; Gaz. vol. 212; p. 394.
- Beakes, William E., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Detector for oscillating currents. No. 1,158,112; Oct. 26; Gaz. vol. 219; p. 1093.
- Beal, Frederick C., Toronto, Ontario, Canada. Saddle. No. 1,155,465; Oct. 5; Gaz. vol. 219; p. 49.
- Beale, George B., Maywood, Ill. Coin-controlled mechanism. No. 1,142,745; June 8; Gaz. vol. 215; p. 615.
- Beale, Cadwalder W., et al. (See Attridge, Oliver H., assignor.)
- Beall, Richard J., Jr., assignor to The Simplex Concrete Piling Company, Washington, D. C. Removable pile for forming concrete piling. No. 1,127,392; Feb. 9; Gaz. vol. 211; p. 294.
- Beall, Richard J., Jr., assignor to The Simplex Concrete Piling Company, Washington, D. C. Making concrete piles. No. 1,127,393; Feb. 9; Gaz. vol. 211; p. 294.
- Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Cultivator. No. 1,143,248; June 15; Gaz. vol. 215; p. 836.
- Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Cultivator. No. 1,154,084; Sept. 21; Gaz. vol. 218; p. 680.
- Beam, Howard F., Harmony, Pa. Swab-unloader. No. 1,156,657; Oct. 12; Gaz. vol. 219; p. 491.
- Beam, Mathew, Old Forge, Pa. Overhoist automatic cut-off. No. 1,156,877; Oct. 19; Gaz. vol. 219; p. 595.
- Beam, Matthew M., Old Forge, Pa. Safety device for elevators. No. 1,134,582; Apr. 6; Gaz. vol. 213; p. 182.
- Beam, Willie C., assignor of one-half to T. D. Reber, Rockford, Ill. Smoke-preventer. No. 1,131,106; Mar. 9; Gaz. vol. 212; p. 473.
- Beam, Willie C., assignor of one-half to T. D. Reber, Rockford, Ill. Smoke-preventer. No. 1,131,107; Mar. 9; Gaz. vol. 212; p. 473.
- Beamer, Willis D., and J. F. Duffy, Chicago, Ill. Carbureter. No. 1,131,312; Mar. 9; Gaz. vol. 212; p. 544.
- Beamer, Willis D., and J. F. Duffy, Chicago, Ill. Carbureter. No. 1,161,437; Nov. 23; Gaz. vol. 220; p. 1201.
- Beamish, Thomas M., Vancouver, British Columbia, Canada. Railway-rail fastening to tie. No. 1,165,834; Dec. 28; Gaz. vol. 221; p. 1207.
- Bean, Andrew W., Mount Rainier, Md., and J. A. Killinger, Washington, D. C. Ammunition-boist. No. 1,158,161; Oct. 26; Gaz. vol. 219; p. 1110.
- Bean, Charles E., assignor to Killifer Manufacturing Company, Los Angeles, Cal. Wheel. No. 1,144,632; June 29; Gaz. vol. 215; p. 1366.
- Bean, Guy M., Los Angeles, Cal., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Oil-burning locomotive-furnace. No. 1,138,065; May 4; Gaz. vol. 214; p. 121.
- Bean, Guy M., Los Angeles, Cal., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler fire-box. No. 1,138,066; May 4; Gaz. vol. 214; p. 122.
- Bean, Guy M., Los Angeles, Cal., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Oil-burning locomotive-furnace. No. 1,138,067; May 4; Gaz. vol. 214; p. 122.
- Bean, Irene A., Lonepine, Ark. Envelop. No. 1,155,198; Sept. 28; Gaz. vol. 218; p. 1090.
- Bean, Jesse A., assignor of one-half to C. R. Montgomery, Texarkana, Tex. Wrench. No. 1,140,018; May 18; Gaz. vol. 214; p. 882.
- Bean, Joseph S., Sharon, Vt. Rail-fastener. No. 1,149,888; Aug. 10; Gaz. vol. 217; p. 605.
- Bean, Preston C., and H. S. Collinson, Arkansas City, Kans. Side curtain for automobiles. No. 1,145,965; July 13; Gaz. vol. 216; p. 366.
- Bean Spray Pump Co. (See Warring, Franklin B., assignor.)
- Bean Spray Pump Company. (See Hansen, Harvey F., assignor.)
- Bean, William E. (See Spohrer and Bean.)
- Bean, William L., Chicago, Ill. Mud-ring. No. 1,156,455; Oct. 12; Gaz. vol. 219; p. 419.
- Beane, Harry E., Bowling Green, Ky. Telephone-indicator. No. 1,162,899; Dec. 7; Gaz. vol. 221; p. 57.
- Beane, James, Charleston, W. Va. Economical feeder. No. 1,125,044; Jan. 19; Gaz. vol. 210; p. 727.
- Beane, Joseph L., Le Grand, Iowa. Bolt-bearing. No. 1,160,821; Nov. 16; Gaz. vol. 220; p. 936.
- Beard, Clement E., Columbiana, Ohio. Resilient tire for vehicles. No. 1,131,313; Mar. 9; Gaz. vol. 212; p. 545.
- Beard, Ferdinand W., Yountville, Cal. Shoe. No. 1,127,850; Feb. 9; Gaz. vol. 211; p. 457.
- Beard, George M., Pleasant Lake, Ind. Trouble-detector for spark-plugs. No. 1,138,441; May 4; Gaz. vol. 214; p. 254.
- Beard, James, Two Rivers, Cal. Tractor-wheel. No. 1,155,872; Oct. 5; Gaz. vol. 219; p. 191.
- Beard, James W. (See Berg, Carl, assignor.)
- Beard, John W., Sunbury, Pa. Salvaging device. No. 1,124,261; Jan. 12; Gaz. vol. 210; p. 410.
- Beard, Johnson D., Taylorsville, Ky. Educational appliance. No. 1,158,774; Nov. 2; Gaz. vol. 220; p. 128.
- Beard, Paul M., assignor to American Car and Foundry Company, St. Louis, Mo. Convertible car. No. 1,140,654; May 25; Gaz. vol. 214; p. 1140.
- Beard, Paul M., assignor to American Car and Foundry Company, St. Louis, Mo. Sectional carline. No. 1,164,059; Dec. 14; Gaz. vol. 221; p. 510.
- Beard, Paul M., assignor to American Car and Foundry Company, St. Louis, Mo. Railway-car underframe. No. 1,164,060; Dec. 14; Gaz. vol. 221; p. 510.
- Beard, Richard M., New York, N. Y. Intercommunicating trunk-line telephone system. No. 1,135,654; Apr. 13; Gaz. vol. 213; p. 600.
- Beardsley, Charles M., deceased, Cleveland, Ohio; H. M. Beardsley, administratrix. Vulcanizing apparatus. No. 1,152,267; Aug. 31; Gaz. vol. 217; p. 1593.
- Beardsley, Charles P., Reinbeck, Iowa. Power-driven hair-clipper. No. 1,123,980; Jan. 5; Gaz. vol. 210; p. 265.
- Beardsley, Frank W., assignor to Seaboard Specialty Corporation, New York, N. Y. Dish-washing machine. No. 1,150,924; Aug. 24; Gaz. vol. 217; p. 1087.
- Beardsley, Harriet M., administratrix. (See Beardsley, Charles M.)
- Bearings Company of America, The. (See Mossig and Sachs, assignors.)
- Bearings Company of America, The. (See Neukirch, Clemens, assignor.)
- Bearings Company of America, The. (See Sachs, Ernst, assignor.)
- Beasecker, Clarence H., and G. P. Simons, Sparta, Mich. Go-cart. No. 1,125,934; Jan. 26; Gaz. vol. 210; p. 1075.
- Beasley, Frank, Richmond, Va. Adjustable-frame cultivator. No. 1,140,019; May 18; Gaz. vol. 214; p. 882.
- Beasley, Frank A., Garnett, Kans. Device for heating charges for explosive-engines. No. 1,125,446; Jan. 19; Gaz. vol. 210; p. 872.
- Beasley, Joseph. (See Aston, George, assignor.)
- Beatley, Don E., and P. M. Feltwell, Sewickley, Pa. Electrical signaling apparatus. No. 1,143,024; June 15; Gaz. vol. 215; p. 755.
- Beattie, George A., Jersey City, N. J. Ticket-holder. No. 1,134,501; Apr. 6; Gaz. vol. 213; p. 153.
- Beattie, James M. (See Spear and Beattie.)
- Beattie Manufacturing Co., The. (See Beattie, Walter J., assignor.)

Alphabetical list of patentees—Continued.

- Beattie, Walter J., assignor to The Beattie Manufacturing Co., Cohoes, N. Y. Operating mechanism for folding-machines. No. 1,164,976; Dec. 21; Gaz. vol. 221; p. 870.
- Beattie, William J. (See Mason and Beattie.)
- Beatty, Luther C. (See Smith, Voorhees G., assignor.)
- Beatty, Norman L., assignor of one-half to W. S. Brown, Punksutawney, Pa. Single-trigger mechanism for double-barreled guns. No. 1,149,326; Aug. 10; Gaz. vol. 217; p. 403.
- Beatty, Thomas W., New Cumberland, W. Va. Insulator. No. 1,139,748; May 18; Gaz. vol. 214; p. 786.
- Beatty, Wallace A., assignor to G. W. Readle, New York, N. Y. Artificial filament and other product. No. 1,156,969; Oct. 19; Gaz. vol. 219; p. 628.
- Beatty, Wallace A., assignor to G. W. Readle, New York, N. Y. Plastic compound and making same. No. 1,158,960; Nov. 2; Gaz. vol. 220; p. 192.
- Beatty, Wallace A., assignor to G. W. Readle, New York, N. Y. Plastic compound and making same. No. 1,158,961; Nov. 2; Gaz. vol. 220; p. 192.
- Beatty, Wallace A., assignor to G. W. Readle, New York, N. Y. Plastic product. No. 1,158,962; Nov. 2; Gaz. vol. 220; p. 193.
- Beatty, Wallace A., assignor to G. W. Readle, New York, N. Y. Moving-picture film. No. 1,158,963; Nov. 2; Gaz. vol. 220; p. 193.
- Beatty, Wallace A., assignor to G. W. Readle, New York, N. Y. Graphophone-record blank. No. 1,158,964; Nov. 2; Gaz. vol. 220; p. 193.
- Beatty, Wallace A., assignor of one-fourth to H. H. Smith, New York, N. Y., and one half to V. M. Fleming, Fredericksburg, Va. Depositing carbon in porous substance. No. 1,158,965; Nov. 2; Gaz. vol. 220; p. 193.
- Beatty, Wallace A., assignor of three-twentieths to H. H. Smith, one-half to J. D. Dusenberry, New York, N. Y., and one-tenth to T. A. Witherspoon, Washington, D. C. Impregnating porous substances. No. 1,134,436; Apr. 6; Gaz. vol. 213; p. 128.
- Beatty, William M., Beaver Falls, Pa. Apparatus for the transmission of power. No. 1,124,387; Jan. 12; Gaz. vol. 210; p. 457.
- Beaty, Arthur, San Fernando, Cal. Projectile-thrower. No. 1,153,415; Sept. 14; Gaz. vol. 218; p. 412.
- Beaty, Arthur, San Fernando, Cal. Aeroplane-propeller. No. 1,156,577; Oct. 12; Gaz. vol. 219; p. 462.
- Beaty, W. R. (See Tower, George W., assignor.)
- Beauchamp, Frederick W., Indianapolis, Ind. Glare-guard for headlights. No. 1,148,650; Aug. 3; Gaz. vol. 217; p. 60.
- Beauchemin, Joseph O., Berthierville, Quebec, Canada. Ballot-box. No. 1,125,796; Jan. 19; Gaz. vol. 210; p. 996.
- Beaudry, Deunbord, assignor of one-half to J. S. St. Onge, Montreal, Quebec, Canada. Circular-saw attachment. No. 1,125,637; Jan. 19; Gaz. vol. 210; p. 938.
- Beaudry, Zolione, assignor to Hamel Shoe Machinery Co., Inc., Lynn, Mass. Edge setting and indenting machine. No. 1,125,894; Jan. 19; Gaz. vol. 210; p. 1029.
- Beaudry, Zolique, assignor to Hamel Shoe Machinery Co., Inc., Lynn, Mass. Sole-edge-burnishing machine. No. 1,162,438; Nov. 30; Gaz. vol. 220; p. 1593.
- Beaufort, Charles W., Augusta, Ga. Rail-and-socket pipe-joint. No. 1,138,071; May 4; Gaz. vol. 214; p. 123.
- Beaufort, Charles W., Augusta, Ga. Coupling. No. 1,138,072; May 4; Gaz. vol. 214; p. 124.
- Beaumont Iron Works Co. (See Lewis, Guy V., assignor.)
- Beaumont, James F. (See Babbitt and Beaumont.)
- Beaumont, Robert H., Philadelphia, Pa. Roll-crusher. No. 1,153,016; Sept. 7; Gaz. vol. 218; p. 233.
- Beaumont, William W., Westminster, England. Apparatus for straining paper-pulp. No. 1,148,651; Aug. 3; Gaz. vol. 217; p. 61.
- Beaupré, Elzear, St. Boniface, Manitoba, Canada. Switch-point controller. No. 1,139,749; May 18; Gaz. vol. 214; p. 786.
- Beauregard, Osius H., Marlboro, N. H. Folding box. No. 1,129,627; Feb. 23; Gaz. vol. 211; p. 1162.
- Beausejour, Reme A., assignor to Standard Varnish Works, New York, N. Y. Article-holder for liquid-coating machines. No. 1,123,660; Jan. 5; Gaz. vol. 210; p. 158.
- Beaver, Francis M., assignor of one-half to W. P. Bolin, Cisco, Okla. Agricultural machine. No. 1,158,023; Oct. 26; Gaz. vol. 219; p. 1061.
- Bezlev, Thomas C., Richmond, Va. Heel-plate for rubber heels. No. 1,153,368; Sept. 14; Gaz. vol. 218; p. 394.
- Debout, John W. (See Highers, Charles, assignor.)
- Becher, George, New York, N. Y. Fishing-pole attachment. No. 1,141,684; June 1; Gaz. vol. 215; p. 213.
- Becher, Otto A. J., Copiague, N. Y. Bottle and jar closure. No. 1,140,103; May 18; Gaz. vol. 214; p. 914.
- Bechler, André, Moutier, Switzerland. Driving mechanism for the moving parts of automatic and semi-automatic machine-tools. No. 1,137,180; Apr. 27; Gaz. vol. 213; p. 1218.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Stereotype-plate fastener for rotary cylinder printing-presses. No. 1,129,946; Mar. 2; Gaz. vol. 212; p. 39.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Stereotype-plate boring and cutting machine. No. 1,129,947; Mar. 2; Gaz. vol. 212; p. 39.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Plate finishing and trimming machine. No. 1,129,948; Mar. 2; Gaz. vol. 212; p. 40.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Rotary printing-press. No. 1,139,154; May 11; Gaz. vol. 214; p. 543.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Ink-fountain for printing-presses. No. 1,142,659; June 8; Gaz. vol. 215; p. 588.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Tubular-plate printing-press. No. 1,147,920; July 27; Gaz. vol. 216; p. 1098.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Mechanical pressure mechanism. No. 1,150,484; Aug. 17; Gaz. vol. 217; p. 877.
- Bechmann, Albertina, Cincinnati, Ohio. Educational appliance. No. 1,163,125; Dec. 7; Gaz. vol. 221; p. 136.
- Becht, Edward C. (See Becht, Herman W. and E. C.)
- Becht, Herman W., Dayton, and E. C. Becht, Newport, Ky. Confectionery-coating machine. No. 1,133,789; Mar. 30; Gaz. vol. 212; p. 1555.
- Bechtel, Charles W. (See Smith, Stuart D., assignor.)
- Bechtel, John, Earlham, Iowa. Heat-retainer for bakers' ovens. No. 1,128,933; Feb. 16; Gaz. vol. 211; p. 883.
- Bechtel, John A., Tarentum, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Grading apparatus. No. 1,151,558; Aug. 31; Gaz. vol. 217; p. 1348.
- Bechtel, John A., Tarentum, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Cullet-hopper. No. 1,164,977; Dec. 21; Gaz. vol. 221; p. 870.
- Bechtold, Reuben E., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Controlling mechanism for pumps. No. 1,164,699; Dec. 21; Gaz. vol. 221; p. 773.
- Bechtold, Reuben E., and A. D. Wyckoff, assignors to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Pump. No. 1,164,700; Dec. 21; Gaz. vol. 221; p. 773.
- Bechtold, William S., Newark, N. J. Shoe-buckle. No. 1,124,585; Jan. 12; Gaz. vol. 210; p. 529.
- Bechtold, William S., Newark, N. J. Comb. No. 1,153,669; Sept. 14; Gaz. vol. 218; p. 500.
- Bechtold, William S., Newark, N. J. Barrette. No. 1,155,399; Oct. 5; Gaz. vol. 219; p. 26.
- Beck, Alfred, New York, N. Y. Safety appliance. No. 1,148,820; Aug. 3; Gaz. vol. 217; p. 121.
- Beck, August, Cranford, assignor of one-half to P. D. Campbell, Newark, N. J. Dispensing-receptacle. No. 1,156,456; Oct. 12; Gaz. vol. 219; p. 419.
- Beck, Berthold G., Gary, Ind. assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Lubricating device. No. 1,161,590; Nov. 23; Gaz. vol. 220; p. 1253.
- Beck, Charles H., Altoona, Pa. Battery connection. No. 1,143,485; June 15; Gaz. vol. 215; p. 917.
- Beck, Charles K. (See Hester, Beck, and Post.)
- Beck, Charles K., and Anderson, Ind. Take-up sprocket for motion-picture machines. No. 1,125,045; Jan. 19; Gaz. vol. 210; p. 727.
- Beck, Charles W., Detroit, Mich. Oil-can holder. No. 1,158,361; Oct. 26; Gaz. vol. 219; p. 1179.
- Beck, Charles W., Rockville Center, N. Y., assignor, by mesne assignments, to Beck-Frost Corporation, Detroit, Mich. Spark-plug. No. 1,136,996; Apr. 27; Gaz. vol. 213; p. 1152.
- Beck, Charles W., Rockville Center, N. Y., assignor, by mesne assignments, to The Beck-Frost Corporation, Detroit, Mich. Tool-clamp. No. 1,143,025; June 15; Gaz. vol. 215; p. 756.
- Beck, Charles W., Detroit, Mich., assignor to The Beck-Frost Corporation. Fastening-clip. No. 1,142,479; June 8; Gaz. vol. 215; p. 527.
- Beck, Christopher W., Canastota, S. D. Collapsible carrier. No. 1,158,885; Nov. 2; Gaz. vol. 220; p. 168.
- Beck Company, Charles. (See Henry, Ferdinand G., assignor.)
- Beck, Ernest L., New York, N. Y., and A. M. Ayers, Nutley, N. J., assignors to Dodge & Dent Mfg. Co. Bottle-stopper. No. 1,151,997; Aug. 31; Gaz. vol. 217; p. 1500.
- Beck-Frost Corporation, The. (See Beck, Charles W., assignor.)
- Beck, John C., Indianapolis, and J. M. Doddridge, Milton, Ind. Detachable casket-handle. No. 1,128,573; Feb. 16; Gaz. vol. 211; p. 757.
- Beck, John W., assignor of one-half to N. T. Gaines, Bellevue, Tex. Automatic engine-starter. No. 1,161,827; Nov. 30; Gaz. vol. 220; p. 1380.
- Beck, Joseph, Elberta, Ala. Outrigger for boats. No. 1,136,306; Apr. 20; Gaz. vol. 213; p. 869.
- Beck, Joseph H., and G. Bedford, Brooklyn, N. Y. Player-piano. No. 1,164,912; Dec. 21; Gaz. vol. 221; p. 847.
- Beck, Joseph P., Snyder, Tex. Sad-iron heater. No. 1,132,549; Mar. 23; Gaz. vol. 212; p. 1070.
- Beck, Marshall, assignor to The Borg & Beck Company, Moline, Ill. Friction-clutch. No. 1,132,903; Mar. 23; Gaz. vol. 212; p. 1200.

Alphabetical list of patentees—Continued.

- Beck, Marshall, Moline, assignor of one-third to D. K. Hill, Chicago, Ill., and one-third to J. T. Skinkle, Kenosha, Wis. Machine for gathering and handling hay. No. 1,142,927; June 15; Gaz. vol. 215; p. 721.
- Beck, Michael, Minneapolis, Minn. Heavy-oil carburetor for explosive engines. No. 1,149,710; Aug. 10; Gaz. vol. 217; p. 541.
- Beck, Nicholas, Seattle, Wash. Skirt and waist holder. No. 1,134,176; Apr. 6; Gaz. vol. 213; p. 34.
- Beck, Otto M., New York, N. Y. Fireproof window for warehouses. No. 1,128,402; Feb. 16; Gaz. vol. 211; p. 697.
- Beck, Robert L. (See Banwell, James, assignor.)
- Beck, Rufus L., Sullivan, Wis. Device for mixing frostings and cakes. No. 1,144,749; June 29; Gaz. vol. 215; p. 1407.
- Beck, Washington, Rochester, N. Y., assignor of one-fourth to C. D. Coker, one-fourth to A. J. Aldridge, and one-fourth to J. Lewis, Birmingham, Ala. Station-indicator. No. 1,152,129; Aug. 31; Gaz. vol. 217; p. 1549.
- Becker, Amalie M., *et al.*, executors. (See Hoffman, Ernst G.)
- Becker, Anton, Columbus, Ohio. Anchor for tank-cars. No. 1,151,651; Aug. 31; Gaz. vol. 217; p. 1381.
- Becker, August C., assignor of one-half to O. A. Knapp, Elkins, W. Va. Boot or shoe. No. 1,154,360; Sept. 21; Gaz. vol. 218; p. 775.
- Becker, Charles A. (See Sterling and Becker.)
- Becker, Charles F., assignor of one-half to R. A. Anderson, New Philadelphia, Ohio. Safety device. No. 1,129,269; Feb. 23; Gaz. vol. 211; p. 1036.
- Becker, Charles H., Milwaukee, Wis. Antiskidding device. No. 1,148,281; July 27; Gaz. vol. 216; p. 1227.
- Becker, Christian L. (See Weber, Emil, assignor.)
- Becker, Edmund. (See Christie, Benjamin J., assignor.)
- Becker, Frank E., Jamaica, assignor to Underwood Type writer Company, New York, N. Y. Type-writing machine. No. 1,159,886; Nov. 9; Gaz. vol. 220; p. 552.
- Becker, Frank S., *et al.* (See Laziny, Victor, assignor.)
- Becker, Frederick W., New York, N. Y. Shoulder-rest for stringed instruments. No. 1,163,636; Dec. 14; Gaz. vol. 221; p. 360.
- Becker, Fritz, New York, N. Y., assignor to National Labeling Machine Co. Bottle-labeling machine. No. 1,165,936; Dec. 28; Gaz. vol. 221; p. 1243.
- Becker, Harry J., Northampton, Pa. Chicken feeder and exerciser. No. 1,144,929; June 29; Gaz. vol. 215; p. 1468.
- Becker, Harry S., River Forest, assignor to American Flyer Manufacturing Company, Chicago, Ill. Spring-motor. No. 1,144,581; June 29; Gaz. vol. 215; p. 1348.
- Becker, John, Hyde Park, Mass., assignor to Becker Milling Machine Company, Portland, Me. Universal milling-machine. No. 1,139,475; May 18; Gaz. vol. 214; p. 690.
- Becker, John B., New York, N. Y. Projectile. No. 1,146,780; July 20; Gaz. vol. 216; p. 671.
- Becker, Joseph, Washington, D. C. Copying or enlarging camera. No. 1,126,352; Jan. 26; Gaz. vol. 210; p. 1229.
- Becker, Joseph, Washington, D. C. Copying or enlarging camera. No. 1,126,353; Jan. 26; Gaz. vol. 210; p. 1229.
- Becker, Joseph, Washington, D. C. Panoramic photographic camera. No. 1,136,761; Apr. 20; Gaz. vol. 213; p. 1032.
- Becker, Joseph, Washington, D. C. Automatic-focusing camera. No. 1,142,295; June 8; Gaz. vol. 215; p. 461.
- Becker, Joseph, Montclair, N. J. Curtain-fixture. No. 1,132,151; Mar. 16; Gaz. vol. 212; p. 877.
- Becker, Julius, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with pivot-mount. No. 1,127,394; Feb. 9; Gaz. vol. 211; p. 295.
- Becker, Julius H., San Francisco, Cal. Friction heat-generator. No. 1,126,354; Jan. 26; Gaz. vol. 210; p. 1229.
- Becker, Louis, and K. Heine, New York, N. Y. Scarf-pin fastener. No. 1,157,835; Oct. 26; Gaz. vol. 219; p. 994.
- Becker, Mathew, Chicago, Ill. Holder for safety-razor blades. No. 1,140,942; May 25; Gaz. vol. 214; p. 1241.
- Becker, Mathias B., Chicago, Ill. Ornamenting and improving prepared roofing. No. 1,157,664; Oct. 26; Gaz. vol. 219; p. 936.
- Becker, Mathias B., Chicago, Ill. Prepared roofing. No. 1,157,665; Oct. 26; Gaz. vol. 219; p. 937.
- Becker Milling Machine Company. (See Becker, John, assignor.)
- Becker, Oscar, Südende, near Berlin, Germany. Pack-casing for photographic-film packs provided with pulling tabs. No. 1,127,851; Feb. 9; Gaz. vol. 211; p. 457.
- Becker, Philip, Utica, N. Y. Shoe-jack. No. 1,149,327; Aug. 10; Gaz. vol. 217; p. 403.
- Becker, Philip A., New York, N. Y. Supplemental display-case. No. 1,150,329; Aug. 17; Gaz. vol. 217; p. 823.
- Becker, Reinhold, Krefeld, Germany. Automatic firearm. No. 1,144,285; June 22; Gaz. vol. 215; p. 1220.
- Becker, Richard M., New York, assignor to J. T. Underwood, Brooklyn, N. Y. Type-writing machine. No. 1,150,164; Aug. 17; Gaz. vol. 217; p. 766.
- Becker, Richard M., New York, assignor to J. T. Underwood, Brooklyn, N. Y. Type-writing machine. No. 1,152,928; Sept. 7; Gaz. vol. 218; p. 201.
- Becker, Robert H. (See Bandtel, Herbert E., assignor.)
- Becker, William F., Chicago, Ill., assignor to Thomas Cusack Company. Advertising device. No. 1,144,096; June 22; Gaz. vol. 215; p. 1153.
- Beckers, Hubert, Kallspeil, Mont. Baby-carriage and like vehicle. No. 1,149,111; Aug. 3; Gaz. vol. 217; p. 219.
- Beckers, William, and I. Dreyfus, assignors to W. Beckers Aniline and Chemical Works, Brooklyn, N. Y. Chromium compound. No. 1,162,210; Nov. 30; Gaz. vol. 220; p. 1514.
- Beckert, Emil R., Chicago, Ill. Underreamer. No. 1,139,096; May 11; Gaz. vol. 214; p. 522.
- Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Treating mill-scale. No. 1,127,162; Feb. 2; Gaz. vol. 211; p. 176.
- Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Treating mill-scale. No. 1,127,163; Feb. 2; Gaz. vol. 211; p. 176.
- Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Treating tungsten ores. No. 1,153,594; Sept. 14; Gaz. vol. 218; p. 476.
- Becket, Frederick M., Niagara Falls, assignor to Union Carbide Company, New York, N. Y. Manufacture of calcium carbide. No. 1,137,567; Apr. 27; Gaz. vol. 213; p. 1356.
- Beckett, Gilbert T., Tunbridge Wells, England. Washer. No. 1,146,917; July 20; Gaz. vol. 216; p. 719.
- Beckett, John R., Boston, Mass. Universal angle-plate. No. 1,155,987; Oct. 5; Gaz. vol. 219; p. 229.
- Beckfield, John C., Pittsburgh, Pa. Water-heater. No. 1,164,061; Dec. 14; Gaz. vol. 221; p. 510.
- Beckham, Charles L. and H. C., Toledo, Ohio. Cushion-tire. No. 1,166,314; Dec. 28; Gaz. vol. 221; p. 1381.
- Beckham, Harry C. (See Beckham, Charles L. and H. C.)
- Beckley, Albert J., Westfield, N. J. Stapling-machine. No. 1,123,221; Jan. 5; Gaz. vol. 210; p. 6.
- Beckley, Harry, Cincinnati, Ohio. Cork-extractor. No. 1,149,112; Aug. 3; Gaz. vol. 217; p. 215.
- Beckley, Louis E. (See Nicodemus and Beckley.)
- Beckley, Major H. E., Chicago, Ill. Holder for maps or the like. No. 1,163,310; Dec. 7; Gaz. vol. 221; p. 201.
- Beckley, Reuben E., Coalinga, Cal. Oil and gas separator. No. 1,127,722; Feb. 9; Gaz. vol. 211; p. 410.
- Beckman, August H., Madison, Wis. Trap-door fitting. No. 1,165,384; Dec. 28; Gaz. vol. 221; p. 1050.
- Beckman, Jacob H., Seattle, Wash. Ice-machine. No. 1,154,836; Sept. 28; Gaz. vol. 218; p. 965.
- Beckman, John, Yosemite Valley, Cal. Gage. No. 1,148,430; July 27; Gaz. vol. 216; p. 1278.
- Beckman, John E., Chicago, Ill. Valve. No. 1,150,573; Aug. 17; Gaz. vol. 217; p. 909.
- Beckman, John W., Berkeley, Cal. Reducing metals. No. 1,160,822; Nov. 16; Gaz. vol. 220; p. 936.
- Beckman, Werner M. (See Walters, Beckman, and Kohl.)
- Becton, Dickinson & Co. (See Duggan, George J., assignor.)
- Becton, Dickinson & Co. (See Pedretti, Henry, assignor.)
- Beckwith Box Toe Company. (See Beckwith, Harry M., assignor.)
- Beckwith Box-Toe Company. (See Butterfield, Frank E., assignor.)
- Beckwith, Franklin B., Oconee, Nebr. Garment-stretcher. No. 1,146,991; July 20; Gaz. vol. 216; p. 746.
- Beckwith, George F., Elliott, Iowa. Motor-driven hoof-trimmer. No. 1,126,945; Feb. 2; Gaz. vol. 211; p. 98.
- Beckwith, Harry H. (See Anderson, Alexander, assignor.)
- Beckwith, Harry H., Boston, Mass. Stiffened shoe-blank. No. 1,124,835; Jan. 12; Gaz. vol. 210; p. 618.
- Beckwith, Harry M., Wollaston, Mass. assignor to Beckwith Box Toe Company, Dover, N. H. Moistening apparatus. No. 1,124,586; Jan. 12; Gaz. vol. 210; p. 529.
- Beckwith, Joseph, Broken Bow, Nebr. Oil-burner. No. 1,155,873; Oct. 5; Gaz. vol. 219; p. 192.
- Beckwith, Louis I., Boston, Mass. Hammock-support. No. 1,163,637; Dec. 14; Gaz. vol. 221; p. 360.
- Beckwith, Walter C., Postoria, Ohio. Manufacturing torpedoes. No. 1,154,164; Sept. 21; Gaz. vol. 218; p. 706.
- Beckwith, Walter C., Postoria, Ohio. Railway-fussee. No. 1,154,165; Sept. 21; Gaz. vol. 218; p. 706.
- Bedale, Frederick E., *et al.* (See Atterbury and Matthews, assignors.)
- Bedell, Clinton W., New York, N. Y. Indicating device. No. 1,131,314; Mar. 9; Gaz. vol. 212; p. 545.
- Bedell, Richard M., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting-machine. No. 1,129,159; Feb. 23; Gaz. vol. 211; p. 997.
- Bedell, Richard M., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,157,753; Oct. 26; Gaz. vol. 219; p. 967.
- Bedford, Fred, Stratton, Nebr. Brake-actuating device for automatic train-stop mechanism. No. 1,152,695; Sept. 7; Gaz. vol. 218; p. 116.
- Bedford, George. (See Beck and Bedford.)
- Bedingfield, Wade R., Macon, Ga. Railway-switch. No. 1,128,284; Feb. 16; Gaz. vol. 211; p. 659.
- Bee, Frederick G., Columbus, Ohio. Vaporizer. No. 1,135,151; Apr. 13; Gaz. vol. 213; p. 426.
- Beebe, Eugene F., Minneapolis, Minn. Washing-machine. No. 1,135,565; Apr. 13; Gaz. vol. 213; p. 569.
- Beebe, Frederick H., Elyria, Ohio. Ladle-fastening. No. 1,126,687; Feb. 2; Gaz. vol. 211; p. 6.

- Beebe, George H., assignor to Fisher Governor Company, Marshalltown, Iowa. Float-valve. No. 1,125,046; Jan. 19; Gaz. vol. 210; p. 727.
- Beebe, Stanley J., Binghamton, N. Y. Paper pulley. No. 1,132,509; Mar. 16; Gaz. vol. 212; p. 1009.
- Beebout, Samuel P., New Cumberland, W. Va., and T. E. Morgan, Columbus, Ohio. Kiln. No. 1,139,327; May 11; Gaz. vol. 214; p. 599.
- Beech, John M., Marshalltown, Iowa. Damper-regulating mechanism. No. 1,127,954; Feb. 9; Gaz. vol. 211; p. 494.
- Beech-Nut Packing Company. (See Lorenz, William A., assignor.)
- Beech-Nut Packing Company *et al.* (See Lorenz and Merritt, assignors.)
- Beech-Nut Packing Company. (See Merritt, Joseph, assignor.)
- Beecham, Oscar. (See Taylor and Beecham.)
- Beecher, Titus A., Drumright, Okla. Locating liquid strata in a well. No. 1,133,218; Mar. 23; Gaz. vol. 212; p. 1315.
- Beecher, Titus A., Taft, Cal. Knife-blade. No. 1,135,987; Apr. 20; Gaz. vol. 213; p. 758.
- Beechry, John T., Lynn, Mass., assignor to General Electric Company. Lamp and support for same. No. 1,153,281; Sept. 14; Gaz. vol. 218; p. 362.
- Beede, Herbert G., Pawtucket, R. I. Wheel-mount for spinning-machines. No. 1,148,741; Aug. 3; Gaz. vol. 217; p. 94.
- Beede, Herbert G., Pawtucket, R. I. Expandable pulley. No. 1,158,886; Nov. 2; Gaz. vol. 220; p. 168.
- Beeler, Herbert L., assignor to The John B. Morris Machine Tool Company, Cincinnati, Ohio. Lathe. No. 1,124,262; Jan. 12; Gaz. vol. 210; p. 411.
- Beeler, James W., Maynardville, Tenn. Automatic brake mechanism. No. 1,125,638; Jan. 19; Gaz. vol. 210; p. 938.
- Beeler, Samuel E., Waynesboro, Pa. Motor-driven lawnmower. No. 1,156,520; Oct. 12; Gaz. vol. 219; p. 441.
- Beeler, Samuel E., assignor to Frick Company, Waynesboro, Pa. Traction-wheel. No. 1,142,227; June 8; Gaz. vol. 215; p. 438.
- Beeman, Edwin R., and T. Brennan, Jr., St. Louis Park, assignors to Monitor Drill Company, Minneapolis, Minn. Disk attachment. No. 1,130,699; Mar. 9; Gaz. vol. 212; p. 334.
- Beemer, Frank, Philadelphia, Pa. Roller-bearing. No. 1,149,889; Aug. 10; Gaz. vol. 217; p. 605.
- Beemer, Frank, Philadelphia, assignor of one-half to B. G. Nice, Ocozof, Pa. Change-speed mechanism. No. 1,145,344; July 6; Gaz. vol. 216; p. 127.
- Beemer, George S., Meeker, Colo. Mowing-machine. No. 1,133,085; Mar. 23; Gaz. vol. 212; p. 1268.
- Beemer, George S., Meeker, Colo. Churn-operating means. No. 1,135,655; Apr. 13; Gaz. vol. 213; p. 601.
- Beemer, Idalyne M., Los Angeles, Cal. Shoe-polishing cabinet. No. 1,147,779; July 27; Gaz. vol. 216; p. 1047.
- Beer, Alfred V. (See Thompson, Roy E., assignor.)
- Beer, Attilio, deceased, Venice, Italy; C. Beer, widow. Electromechanical system to avoid railway collisions. No. 1,132,427; Mar. 16; Gaz. vol. 212; p. 978.
- Beer, Attilio, deceased, Venice; C. Beer, widow Conte Decio Bonamini, Pesaro, Italy, heir at law. Electromechanical system to avoid railway collisions. No. 1,147,596; July 20; Gaz. vol. 216; p. 957.
- Beer, Bernard de, Viry-Chatillon, France. Control-lever and controlling mechanism for aeroplanes. No. 1,126,179; Jan. 26; Gaz. vol. 210; p. 1167.
- Beer, Cesira, widow. (See Beer, Attilio.)
- Beer, Edward J., *et al.* (See James, William E., assignor.)
- Beerbower, George M., New York, assignor of one-half to W. F. Johns, Pelhamwood, N. Y. Automatic door opening and closing apparatus. No. 1,134,810; Apr. 6; Gaz. vol. 213; p. 264.
- Beers, Frank T., Barksdale, Wis., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Heating retorts. No. 1,140,351; May 25; Gaz. vol. 214; p. 1032.
- Beers, Frank T., Barksdale, Wis., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for heating stills. No. 1,149,711; Aug. 10; Gaz. vol. 217; p. 541.
- Beers, George E., New York, N. Y., assignor to Lord & Taylor, Hosiery. No. 1,151,652; Aug. 31; Gaz. vol. 217; p. 1381.
- Beers, John L., Jersey City, N. J. Label-holder. No. 1,159,735; Nov. 9; Gaz. vol. 220; p. 497.
- Beers, Roy R., Tulsa, Okla. Saw-filing machine. No. 1,131,030; Mar. 9; Gaz. vol. 212; p. 447.
- Beers, Wilbur M., Johnsonburg, Pa. Pipe-hanger. No. 1,132,999; Mar. 23; Gaz. vol. 212; p. 1237.
- Beery, John H., Springfield, assignor of one-fourth to H. A. Boxill, one-fourth to P. M. Gale, and one-fourth to V. Towler, Cincinnati, Ohio. Molding and pressing machine. No. 1,137,377; Apr. 27; Gaz. vol. 213; p. 1292.
- Beery, William H., Celina, Ohio. Concrete pipe and mold. No. 1,126,355; Jan. 26; Gaz. vol. 210; p. 1230.
- Bees, William H., assignor of one-half to A. Straka, Chicago, Ill. Relief-valve. No. 1,148,568; Aug. 3; Gaz. vol. 217; p. 31.
- Beetem, Frank G., Philadelphia, Pa. Electrical system of distribution. No. 1,147,692; July 20; Gaz. vol. 216; p. 991.
- Beetz, Otto M., Coney Island, N. Y. Antiskidding device for automobiles. No. 1,159,823; Nov. 9; Gaz. vol. 220; p. 530.
- Beetzley, Charles F., Jr., Chicago, Ill. Indexing stock-page catalogues. No. 1,127,852; Feb. 9; Gaz. vol. 211; p. 458.
- Begg, George B., Harvey, La. Saw-treating device. No. 1,143,934; June 22; Gaz. vol. 215; p. 1095.
- Begg, Roderick. (See Hynds, John G., assignor.)
- Beggs, George W. (See White, Robert C., assignor.)
- Begusch, Franz, Liesling, near Pottschach, Austria-Hungary. Instrument for minute measurings. No. 1,143,165; June 15; Gaz. vol. 215; p. 805.
- Behan, Richard L., Jersey City, N. J. Kindergarten device. No. 1,165,058; Dec. 21; Gaz. vol. 221; p. 897.
- Behlen, Charles A., Richmond, Va. Means for supporting vehicle-bodies. No. 1,123,661; Jan. 5; Gaz. vol. 210; p. 159.
- Behles, Nicholas G., *et al.* (See Callery, George F., assignor.)
- Behling, William, McDonald, Pa. Folding umbrella. No. 1,157,974; Oct. 26; Gaz. vol. 219; p. 1045.
- Behm, Frank, Toledo, Ohio. Latch. No. 1,131,315; Mar. 9; Gaz. vol. 212; p. 546.
- Behm, Henry, assignor of one-half to W. S. Heal, Elizabeth, N. J. Vibrator. No. 1,141,373; June 1; Gaz. vol. 215; p. 102.
- Behm, Henry, and J. Vene, assignors of one-fifth to said Behm, one-fifth to said Vene, one-fifth to W. Marks, one-fifth to G. J. Streissel, Sr., and one-fifth to C. C. Mair, Elizabeth, N. J. Tire. No. 1,152,779; Sept. 7; Gaz. vol. 218; p. 146.
- Behnke, Albert R., St. Paul, Minn. Removable rim. No. 1,133,835; Mar. 30; Gaz. vol. 212; p. 1572.
- Behnke, Albert R., St. Paul, Minn. Hub for removable wheels. No. 1,134,367; Apr. 6; Gaz. vol. 213; p. 104.
- Behnke, Bernard R., and V. Keech, Mount Iron, Minn. Drier for ores, sand, &c. No. 1,123,222; Jan. 5; Gaz. vol. 210; p. 7.
- Behr, Hans C., Scarsdale, N. Y. Process of and apparatus for crushing ore. No. 1,127,853; Feb. 9; Gaz. vol. 211; p. 458.
- Behrend, Bernard A., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Dynamo-electric machine. No. 1,135,656; Apr. 13; Gaz. vol. 213; p. 601.
- Behrend, Helene, assignor to H. Bierbaum, Berlin, Germany. Ball-game device. No. 1,150,947; Oct. 12; Gaz. vol. 219; p. 277.
- Behrendt, Barnim L., Brooklyn, N. Y. Container for disinfectants. No. 1,149,890; Aug. 10; Gaz. vol. 217; p. 606.
- Behring, Frederick H., St. Louis, Mo. Playing-cards. No. 1,143,595; June 15; Gaz. vol. 215; p. 955.
- Behringer, Grover F., assignor to The Deliance Pressed Steel Company, Deliance, Ohio. Bottle-crate and adapter therefor. No. 1,143,166; June 15; Gaz. vol. 215; p. 805.
- Beidler, George C., Oklahoma, Okla. Photographing and developing apparatus. No. 1,153,017; Sept. 7; Gaz. vol. 218; p. 233.
- Beidler, George C., Oklahoma, Okla. Developing apparatus. No. 1,160,240; Nov. 16; Gaz. vol. 220; p. 728.
- Beidler, George C., Oklahoma, Okla. Photographing and developing apparatus. No. 1,160,241; Nov. 16; Gaz. vol. 220; p. 729.
- Beidler, George C., Rochester, N. Y. Photographing apparatus. No. 1,155,785; Oct. 5; Gaz. vol. 219; p. 160.
- Beidler, George C., Rochester, N. Y. Photographing and developing apparatus. No. 1,157,611; Oct. 19; Gaz. vol. 219; p. 851.
- Beidler, George C., Rochester, N. Y. Photographing and developing apparatus. No. 1,160,242; Nov. 16; Gaz. vol. 220; p. 729.
- Beidler, George C., Rochester, N. Y. Film delivering and severing means. No. 1,160,564; Nov. 16; Gaz. vol. 220; p. 843.
- Beier, Paul T., Rodenheim, Frankfurt-on-the-Main, Germany, assignor to United Shoe Machinery Company, Paterson, N. J. Stitch-down-shoe-lasting machine. No. 1,152,694; Sept. 7; Gaz. vol. 218; p. 116.
- Beierly, George W., Milwaukee, Wis. Self-feeding grease-cup. No. 1,148,431; July 27; Gaz. vol. 216; p. 1279.
- Belersdorf, August R., Evanston, Ill. Valve-spring compressor. No. 1,164,452; Dec. 14; Gaz. vol. 221; p. 646.
- Beindl, Carl, Munich, Germany. Producing cyanogen compounds. No. 1,144,457; June 29; Gaz. vol. 215; p. 1308.
- Beisel, William J., Brooklyn, N. Y. Non-refillable bottle. No. 1,144,286; June 22; Gaz. vol. 215; p. 1221.
- Beisel, William J., Brooklyn, N. Y. Non-refillable bottle. No. 1,144,287; June 22; Gaz. vol. 215; p. 1221.
- Belanger, Celia M., Northampton, Mass. Ear-protector. No. 1,158,966; Nov. 2; Gaz. vol. 220; p. 193.
- Belanger, John D., assignor of one-half to G. Racky, Chicago, Ill. Wrench. No. 1,150,094; Aug. 17; Gaz. vol. 217; p. 740.

Alphabetical list of patentees—Continued.

- Belanger, Joseph N., assignor of one-half to J. A. Brunelle, St. Paul, Minn. Latch-operating device for steam-shovels. No. 1,148,432; July 27; Gaz. vol. 216; p. 1279.
- Belanski, Stanley, Easthampton, Mass. Door stop and retainer. No. 1,127,854; Feb. 9; Gaz. vol. 211; p. 459.
- Belanski, Stanley, Easthampton, Mass. Foldable canvas boat. No. 1,128,934; Feb. 16; Gaz. vol. 211; p. 884.
- Belart, Hans, Huddersfield, England. Medicinal preparation for human use. No. 1,129,270; Feb. 23; Gaz. vol. 211; p. 1037.
- Belasco, Jacob, New York, N. Y. Non-refillable bottle. No. 1,143,486; June 15; Gaz. vol. 215; p. 917.
- Belher, Minnie, Philadelphia, Pa. Wardrobe-trunk. No. 1,135,428; Apr. 13; Gaz. vol. 213; p. 520.
- Belcher, Charles C., Wigham, Ga. Hydrometer. No. 1,145,879; July 13; Gaz. vol. 216; p. 336.
- Belcher, Charles L., Brooklyn, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Metallic car-roof. No. 1,164,062; Dec. 14; Gaz. vol. 221; p. 511.
- Belcher, George E., Stoughton, Mass. Last. No. 1,134,502; Apr. 6; Gaz. vol. 213; p. 153.
- Belcher, George E., Stoughton, Mass. Last. No. 1,134,503; Apr. 6; Gaz. vol. 213; p. 153.
- Belcher, George E., Stoughton, Mass. Last. No. 1,134,504; Apr. 6; Gaz. vol. 213; p. 153.
- Belcher, George E., Stoughton, Mass. Last. No. 1,134,505; Apr. 6; Gaz. vol. 213; p. 154.
- Belcher, George E., Stoughton, Mass. Last. No. 1,134,506; Apr. 6; Gaz. vol. 213; p. 154.
- Belcher, Robert E., Chicago, Ill., assignor to B. & B. Manufacturing Company. Arch-support. No. 1,131,900; Mar. 16; Gaz. vol. 212; p. 786.
- Belcher, Warren J., assignor to Whitney Manufacturing Company, Hartford, Conn. Drive-chain. No. 1,145,827; July 6; Gaz. vol. 216; p. 299.
- Beldam, George W., Ealing, England. Engine or machine packing. No. 1,128,745; Feb. 16; Gaz. vol. 211; p. 816.
- Belden, Albert G., assignor to Norton Grinding Company, Worcester, Mass. Head-stock. No. 1,150,243; Aug. 17; Gaz. vol. 217; p. 795.
- Belden, David, assignor to Jewell Manufacturing Company, Auburn, N. Y. Thermostat. No. 1,154,361; Sept. 21; Gaz. vol. 218; p. 775.
- Belden, David, assignor to Jewell Manufacturing Company, Auburn, N. Y. Damper-controlling apparatus. No. 1,154,600; Sept. 28; Gaz. vol. 218; p. 884.
- Belden, Edward H., assignor to Belden Engineering Company, Pittsburgh, Pa. Internal-explosion engine. No. 1,126,256; Jan. 26; Gaz. vol. 210; p. 1230.
- Belden Engineering Company. (See Belden, Edward H., assignor.)
- Beldoch, Herman, New York, assignor of one-half to B. Lesser, Brooklyn, N. Y. Razor-blade holder. No. 1,163,061; Dec. 7; Gaz. vol. 221; p. 113.
- Beler, Adolf, Pittsburgh, Pa. Regulating-valve. No. 1,126,177; Jan. 26; Gaz. vol. 210; p. 1167.
- Belfield, Andrew M., assignor to The Cable Company, Chicago, Ill. Mechanical musical instrument. No. 1,150,653; Aug. 17; Gaz. vol. 217; p. 936.
- Belfran Company. (See Lohel and Frank, assignors.)
- Belfranci, Marie C. (See Belfranci, Thomas J., assignor.)
- Belfranci, Thomas J., assignor of one-half to M. C. Belfranci, Oroville, Cal. Sewage-treatment plant. No. 1,163,058; Dec. 7; Gaz. vol. 221; p. 112.
- Belfry, Michael, Chicago, Ill. Waste-pipe-trap plug. No. 1,151,653; Aug. 31; Gaz. vol. 217; p. 1381.
- Belicza, Eugene, assignor of one-sixth to C. Wiltzan and one-sixth to P. Schaefer, Chicago, Ill. Propeller-wheel. No. 1,134,029; Mar. 30; Gaz. vol. 212; p. 1635.
- Belin, Edouard, Paris, France. Microphone and like instrument. No. 1,143,487; June 15; Gaz. vol. 215; p. 918.
- Belliveau, Alfred, Providence, R. I. Automatic valve and hose coupling and dust-cap for pneumatic tires. No. 1,159,333; Nov. 2; Gaz. vol. 220; p. 321.
- Belk, Edgar. (See Eddy, Gerald A., assignor.) (Re-issue.)
- Belknap, Edwin D., New York, N. Y. Stencil. No. 1,134,094; Apr. 6; Gaz. vol. 213; p. 5.
- Belknap, Edwin D., New York, N. Y. Stencil-card. No. 1,134,095; Apr. 6; Gaz. vol. 213; p. 5.
- Belknap, Edwin D., New York, N. Y. Selective addressing-machine. No. 1,134,096; Apr. 6; Gaz. vol. 213; p. 5.
- Belknap, Eva, Vancouver, British Columbia, Canada. Abdominal supporter. No. 1,151,922; Aug. 31; Gaz. vol. 217; p. 1474.
- Belknap, Jackson O., Mobile, Ala., assignor to W. C. Belknap, New York, N. Y. Sign. No. 1,141,685; June 1; Gaz. vol. 215; p. 213.
- Belknap, Wilber C. (See Belknap, Jackson O., assignor.)
- Belknap, William L., and M. G. Cunningham, Bridgeport, Conn. Regulator for hot-water systems. No. 1,140,565; May 25; Gaz. vol. 214; p. 1110.
- Belkó, Kólmán, Palouse, Wash. Autosled. No. 1,155,786; Oct. 5; Gaz. vol. 219; p. 161.
- Bell, Albert C., Chicago, Ill. Lock. No. 1,129,841; Mar. 2; Gaz. vol. 212; p. 3.
- Bell, Alfred. (See Wallace and Bell.)
- Bell, Alfred B. (See Caverly and Bell.)
- Bell, Alfred B., assignor to Hale and Kilburn Company, Philadelphia, Pa. Burner-box for gas-ranges. No. 1,159,351; Nov. 9; Gaz. vol. 220; p. 359.
- Bell, Alfred B., assignor to Hale and Kilburn Company, Philadelphia, Pa. Pilot-burner for gas-ranges. No. 1,161,438; Nov. 23; Gaz. vol. 220; p. 1201.
- Bell, Alfred B., assignor to Hale and Kilburn Company, Philadelphia, Pa. Gas-range burner and support therefor. No. 1,163,202; Dec. 7; Gaz. vol. 221; p. 164.
- Bell, Bradley W. (See Cook, David A., assignor.)
- Bell, Charles L., et al. (See Jackson, John, assignor.)
- Bell, Charlie W., Rickey, Ala. Fine-ore separator. No. 1,135,754; Apr. 13; Gaz. vol. 213; p. 635.
- Bell, Clinton L., Palmyra, assignor of one-third to O. Z. Coutant, Springfield, and one-third to C. R. Van Winkle, Palmyra, Ill. Tool. No. 1,158,430; Nov. 2; Gaz. vol. 220; p. 6.
- Bell, Edward, New Orleans, La. Garment-fitting device. No. 1,124,836; Jan. 12; Gaz. vol. 210; p. 619.
- Bell, Edward M., Greenville, Tenn. Bottle-holding rack. No. 1,143,488; June 15; Gaz. vol. 215; p. 918.
- Bell, Ernest E. (See Hoexter, Samuel J., assignor.)
- Bell, Ernest J., New Richmond, Wis. Carbureting device. No. 1,163,059; Dec. 7; Gaz. vol. 221; p. 113.
- Bell, Frank E. (See Jackson and Bell.)
- Bell, George W., Stockport, England. Apparatus for shaping the outer casings of pneumatic tires. No. 1,132,904; Mar. 23; Gaz. vol. 212; p. 1201.
- Bell, Harry E., Philadelphia, Pa., assignor to Bell Reeves Company, Wilmington, Del. Covering for textile-spinning rolls. No. 1,161,591; Nov. 23; Gaz. vol. 220; p. 1253.
- Bell, Harry L., Norfolk, Va. Earthworking implement. No. 1,132,152; Mar. 16; Gaz. vol. 212; p. 877.
- Bell, Horace M., and E. R. Lape, Swanton, Vt. Treating printed paper to remove the ink and recover the pulp. No. 1,130,466; Mar. 2; Gaz. vol. 212; p. 219.
- Bell & Howell Company, The. (See Crabb, Earl L., assignor.)
- Bell & Howell Company. (See Howell, Albert S., assignor.) (Re-issue.)
- Bell, Hugh H., Burr Oak, Kans. Carburetor. No. 1,147,672; July 20; Gaz. vol. 216; p. 985.
- Bell, Ira. (See Moon and Bell.)
- Bell, Isabell, St. Paul, Minn. Jar-cover. No. 1,139,328; May 11; Gaz. vol. 214; p. 600.
- Bell, James H., Philadelphia, Pa. Timing device for pigeons. No. 1,130,247; Mar. 2; Gaz. vol. 212; p. 140.
- Bell, John A., assignor to Railway Specialties Company, Los Angeles, Cal. Wigwag flagman. No. 1,134,071; Mar. 30; Gaz. vol. 212; p. 1649.
- Bell, John A., C. R. Twitchell, and D. M. Palmer, assignors to Railway Specialties Company, Los Angeles, Cal. Wigwag-flagman. No. 1,160,243; Nov. 16; Gaz. vol. 220; p. 730.
- Bell, John C., Sevierville, Tenn. Planer feed-gear. No. 1,161,592; Nov. 23; Gaz. vol. 220; p. 1253.
- Bell, John E., assignor to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 1,129,538; Feb. 23; Gaz. vol. 211; p. 1131.
- Bell, John E., assignor to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 1,141,520; June 1; Gaz. vol. 215; p. 155.
- Bell, John F., Craigmillar, Edinburgh, Scotland. Machine for washing casks, &c. No. 1,151,334; Aug. 24; Gaz. vol. 217; p. 1225.
- Bell, John N., Oneida, N. Y. Telegraph-key. No. 1,127,855; Feb. 9; Gaz. vol. 211; p. 459.
- Bell, John W., assignor of one-half to J. A. Loggie, Bellingham, Wash. Pipe and tube cleaner. No. 1,133,607; Mar. 30; Gaz. vol. 212; p. 1490.
- Bell, Joseph, assignor of one-half to G. W. Eisenhoer, Cincinnati, Ohio. Electric generator. No. 1,163,501; Dec. 7; Gaz. vol. 221; p. 268.
- Bell, Joseph D., San Francisco, Cal. Apparatus for conveying water. No. 1,124,197; Jan. 5; Gaz. vol. 210; p. 341.
- Bell, Joseph D., San Francisco, Cal. Combined bed and seat. No. 1,166,315; Dec. 28; Gaz. vol. 221; p. 1381.
- Bell, Joseph M., Mount Gilead, Ohio. Self-serving table. No. 1,142,480; June 8; Gaz. vol. 215; p. 528.
- Bell, Otis D., New York, N. Y. Cord-fastening seal. No. 1,160,634; Nov. 9; Gaz. vol. 220; p. 603.
- Bell Reeves Company. (See Bell, Harry E., assignor.)
- Bell, Robert, London, England, and R. Maguire, Glasgow, Scotland, assignors of one-half to J. W. Thompson, New York, N. Y. Operating device for switches. No. 1,125,256; Jan. 19; Gaz. vol. 210; p. 804.
- Bell, Robert M., et al. (See Tomlinson, John K., assignor.)
- Bell, Roscoe C., W. H. Roberson, and D. C. Hinderliter, Mount Carmel, Ill. Trap. No. 1,141,756; June 1; Gaz. vol. 215; p. 236.
- Bell, Silas D., Childress, Tex. Mouse-guard for pianos. No. 1,149,423; Aug. 10; Gaz. vol. 217; p. 437.
- Bell, Thomas, Tyler, Tex. Automatic time-check for oil-presses and other machines. No. 1,139,251; May 11; Gaz. vol. 214; p. 575.
- Bell, Thomas A., New York, N. Y. Gas-burner tip. No. 1,140,655; May 25; Gaz. vol. 214; p. 1140.
- Bell, Thomas A., Kew, Melbourne, Victoria, Australia. Shock-absorber for vehicles. No. 1,157,494; Oct. 19; Gaz. vol. 219; p. 814.
- Bell, William H., Jacksonville, Fla. Fire-escape. No. 1,149,616; Aug. 10; Gaz. vol. 217; p. 507.

- Beil, William W., Alameda, Cal. Direction-indicator for vehicles. No. 1,138,834; May 11; Gaz. vol. 214; p. 430.
- Bellaire, Albert G., Detroit, Mich. Feed-finger for automatic screw-machines. No. 1,142,660; June 8; Gaz. vol. 215; p. 589.
- Bellairs, John W., Mishawaka, Ind. Trundling toy. No. 1,152,367; Aug. 31; Gaz. vol. 217; p. 1629.
- Bellavance, Edward, Jr., Moosup, Conn. Machine for straightening loom-shuttles. No. 1,161,828; Nov. 30; Gaz. vol. 220; p. 1380.
- Bellem, Louis H. L., and G. J. Brégéras, Neuilly-sur-Seine, France. Internal-combustion engine. No. 1,157,287; Oct. 19; Gaz. vol. 219; p. 742.
- Bellens, Charles, Brussels-Ixelles, Belgium. Pump for variable-speed hydraulic transmission-gears. No. 1,153,478; Sept. 14; Gaz. vol. 218; p. 433.
- Bellerose, Henry E., Lincoln, N. H. Pulp-grindstone. No. 1,142,296; June 8; Gaz. vol. 215; p. 462.
- Belles, Peter D., New York, N. Y. Bottle-cap. No. 1,164,453; Dec. 14; Gaz. vol. 221; p. 647.
- Bellhouse, Thomas F., Sacramento, Cal. Automatic flange-lubricator. No. 1,143,681; June 22; Gaz. vol. 215; p. 1009.
- Bellinger, Arthur F., Mohawk, N. Y. Ticket-holder. No. 1,134,988; Apr. 13; Gaz. vol. 213; p. 368.
- Bellinger, Edward, Rocky Ford, Colo. Safety gage-cock. No. 1,126,357; Jan. 26; Gaz. vol. 210; p. 1231.
- Bellingham, Leonard, Tunbridge Wells, England. Means for detecting the presence at a distance of icebergs, steamships, and other cold or hot objects. No. 1,158,967; Nov. 2; Gaz. vol. 220; p. 194.
- Belliss & Morcom Limited. (See Jude, Alexander, assignor.)
- Bellois, Frederick W., New York, N. Y. Bottle-closure. No. 1,131,985; Mar. 16; Gaz. vol. 212; p. 818.
- Bellows, Fred E., Worcester, Mass. Safety-fender. No. 1,130,056; Mar. 2; Gaz. vol. 212; p. 75.
- Bellows, Winfield S., Steelton, Pa. Motor for baling-presses. No. 1,150,574; Aug. 17; Gaz. vol. 217; p. 910.
- Bellwood, Thomas, Methuen, and H. Garth, Lawrence, Mass. Condenser-guide. No. 1,130,467; Mar. 2; Gaz. vol. 212; p. 219.
- Belot, Emile, Paris, France. Device for delivering tobacco to cigar and other similar machines. No. 1,128,093; Feb. 9; Gaz. vol. 211; p. 542.
- Belotti, Augustus, Amsterdam, N. Y. Undergarment. No. 1,161,439; Nov. 23; Gaz. vol. 220; p. 1201.
- Belsanté, Luca, Gloucester City, N. J. Saw-gage. No. 1,164,568; Dec. 14; Gaz. vol. 221; p. 685.
- Beltramini, Louis, Spring Valley, Ill. Envelop. No. 1,141,603; June 1; Gaz. vol. 215; p. 184.
- Beltz, Herman, and R. Moir, Minneapolis, Minn. Elevator-door hanger. No. 1,148,652; Aug. 3; Gaz. vol. 217; p. 61.
- Beltz, William L., Mowrystown, Ohio. Silo construction. No. 1,134,663; Apr. 6; Gaz. vol. 213; p. 212.
- Belvidere Screw & Machine Company. (See Brown, Richard R., assignor.)
- Belz, Albert, Unter-Goldach, Switzerland. Spooling-machine. No. 1,141,604; June 1; Gaz. vol. 215; p. 185.
- Belz, Albert, Unter-Goldach, Switzerland. Spooling-machine. No. 1,161,284; Nov. 23; Gaz. vol. 220; p. 1146.
- Belz, Louis C., and A. Nacke, Philadelphia, Pa., assignors to The Tri-Prong Hair Pin Co. Wire-drawing die. No. 1,163,062; Dec. 7; Gaz. vol. 221; p. 114.
- Bem, Joseph P., Berkeley, Cal. Wheelbarrow. No. 1,146,046; July 13; Gaz. vol. 216; p. 396.
- Bemen, Louis H. (See Davies and Bemen.)
- Bemies, Charles O., McClellandtown, Pa., and J. F. Bemies, New York, N. Y. Mining machinery. No. 1,127,395; Feb. 9; Gaz. vol. 211; p. 295.
- Bemies, James F. (See Bemies, Charles O. and J. F.)
- Bemis Car Truck Company. (See Boyer, Warren L., assignor.)
- Bemis, Gilbert C., assignor of one-half to E. F. Fletcher, Worcester, Mass. Brush-bridle. No. 1,152,474; Sept. 7; Gaz. vol. 218; p. 33.
- Bemis, John B., St. Paul, Minn. Collapsible tent. No. 1,124,263; Jan. 12; Gaz. vol. 210; p. 411.
- Bemiss, Sylvester E., and P. Johnson, Clarkston, Wash. Current-motor. No. 1,153,416; Sept. 14; Gaz. vol. 218; p. 412.
- Benage, George W., Juda, Wis. Calf-weaner. No. 1,144,020; June 22; Gaz. vol. 215; p. 1126.
- Benbow, Charles A., Portland, Oreg. Windmill. No. 1,143,803; June 22; Gaz. vol. 215; p. 1050.
- Benbow, Thomas C., Absarokee, Mont. Wheel. No. 1,138,442; May 4; Gaz. vol. 214; p. 254.
- Benc, Jacob. (See Mesker and Benc.)
- Bence, Charles H., et al. (See Bailey, John G., assignor.)
- Bendein, Jacques. (See Morris and Bendein.)
- Bender, Charles J., Chicago, Ill. Leaf-turning device. No. 1,136,927; Apr. 27; Gaz. vol. 213; p. 1126.
- Bender, Conrad, Indianapolis, Ind. Folding bed. No. 1,155,199; Sept. 28; Gaz. vol. 218; p. 1091.
- Bender, George P., Berwick, Pa., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car. No. 1,140,656; May 25; Gaz. vol. 214; p. 1140.
- Bender, Herman, New York, N. Y. Chair. No. 1,159,158; Nov. 2; Gaz. vol. 220; p. 259.
- Bender, Howard E. (See Gunning, Frederick, assignor.)
- Bending, William P., Palo Alto, Cal. Apparatus for drying oils. No. 1,144,522; June 29; Gaz. vol. 215; p. 1329.
- Bendix, Herman G. (See Mason and Bendix.)
- Bendix, Vincent, Chicago, Ill. Starter for engines. No. 1,124,264; Jan. 12; Gaz. vol. 210; p. 412.
- Bendix, Vincent, Chicago, Ill. Starter for engines. No. 1,125,935; Jan. 26; Gaz. vol. 210; p. 1076.
- Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,134,975; Apr. 6; Gaz. vol. 213; p. 318.
- Bendix, Vincent, Chicago, Ill. Starter for engines. No. 1,146,992; July 20; Gaz. vol. 216; p. 747.
- Bendix, Vincent, Memphis, Tenn. Starter for gas-engines. No. 1,144,097; June 22; Gaz. vol. 215; p. 1154.
- Benecke, Adelbert O., Foxboro, Mass. Electrical measuring instrument. No. 1,165,745; Dec. 28; Gaz. vol. 221; p. 1178.
- Benecke, Louis A., St. Louis, Mo. Pin extractor and driver. No. 1,128,838; Feb. 16; Gaz. vol. 211; p. 849.
- Benecke, Louis A., St. Louis, Mo. Light-obstructor. No. 1,156,578; Oct. 12; Gaz. vol. 219; p. 462.
- Benedict, Adelbert E. (See Springstein, Luther W., assignor.)
- Benedict, Centennial H., Lake Linden, Mich. Extracting copper. No. 1,131,986; Mar. 16; Gaz. vol. 212; p. 818.
- Benedict, Charles A., Bellvale, N. Y. Electric safety appliance. No. 1,125,936; Jan. 26; Gaz. vol. 210; p. 1076.
- Benedict, Charles L., Toronto, Ontario, Canada. Envelop. No. 1,148,433; July 27; Gaz. vol. 216; p. 1279.
- Benedict, Harris M., Cincinnati, Ohio. Bird-box. No. 1,158,968; Nov. 2; Gaz. vol. 220; p. 194.
- Benedict, Henry L., New York, N. Y. Propeller. No. 1,148,434; July 27; Gaz. vol. 216; p. 1280.
- Benedict, James Z., Farley, Iowa. Hand-cart. No. 1,129,539; Feb. 23; Gaz. vol. 211; p. 1131.
- Benedict, Laurence D., Chicago, Ill. Pipe-wrench. No. 1,143,350; June 15; Gaz. vol. 215; p. 871.
- Benedictus, Edouard, Paris, France. Reinforced glass and its manufacture. No. 1,128,094; Feb. 9; Gaz. vol. 211; p. 543.
- Beneke, George C., et al. (See Westwood, John T., assignor.)
- Beneker, Jay C., Cincinnati, Ohio. Metal-coating. No. 1,144,523; June 29; Gaz. vol. 215; p. 1329.
- Beneker, Jay C., Cincinnati, Ohio. Alloy-coating. No. 1,144,524; June 29; Gaz. vol. 215; p. 1329.
- Benes, Julius C., Chicago, Ill. Valve for closed-system hot-water heating plants. No. 1,150,831; Aug. 17; Gaz. vol. 217; p. 997.
- Benét, Laurence V., and H. A. Mercié, Paris, France. Automatic shoulder-ride. No. 1,125,937; Jan. 26; Gaz. vol. 210; p. 1077.
- Benét, Laurence V., and H. A. Mercié, Paris, France. Muzzle-support for guns. No. 1,153,018; Sept. 7; Gaz. vol. 218; p. 234.
- Benford, David, et al. (See Hickish, Robert S., assignor.)
- Benford, Edward M., et al. (See Hickish, Robert S., assignor.)
- Benford, Sarah, et al. (See Hickish, Robert S., assignor.)
- Benge, Ralph L., Lexington, Oreg. Weeder. No. 1,135,755; Apr. 13; Gaz. vol. 213; p. 635.
- Bengston, Nels P., Plainville, Conn. Cow-tail holder. No. 1,136,395; Apr. 20; Gaz. vol. 213; p. 902.
- Benham, Edgar M., Norwood, Ohio, assignor, by mesne assignments, to American Bankers Dust Proof Time Lock Company, New York, N. Y. Lock for safety-deposit boxes. No. 1,148,282; July 27; Gaz. vol. 216; p. 1227.
- Benham, Harry, Chicago, Ill., assignor to Chesterman and Streeter, Inc., Philadelphia, Pa. Hernal truss. No. 1,160,565; Nov. 16; Gaz. vol. 220; p. 843.
- Benham, William T., Rising Sun, Ind. Dial for combination-locks. No. 1,156,658; Oct. 12; Gaz. vol. 219; p. 491.
- Benham, William T., Norwood, Ohio. Dial for combination-locks. No. 1,156,659; Oct. 12; Gaz. vol. 219; p. 491.
- Benham, William T., Norwood, Ohio. Dial for combination-locks. No. 1,158,969; Nov. 2; Gaz. vol. 220; p. 194.
- Benisch, Edward A., New York, N. Y. Automatic siphon-filling apparatus. No. 1,162,741; Dec. 7; Gaz. vol. 221; p. 4.
- Benisch, Gustav, Brooklyn, N. Y. Universal adjustable pivot for swinging doors. No. 1,147,360; July 20; Gaz. vol. 216; p. 874.
- Benisch, Gustav, Brooklyn, N. Y. Pivoted door. No. 1,147,361; July 20; Gaz. vol. 216; p. 874.
- Benisch, Gustav, Brooklyn, N. Y. Ventilating window-sash. No. 1,164,251; Dec. 14; Gaz. vol. 221; p. 574.
- Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company of New Jersey. Machine for forming openings in woven fabrics. No. 1,157,754; Oct. 26; Gaz. vol. 219; p. 968.
- Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company of New Jersey. Woven fabric for belts. No. 1,157,755; Oct. 26; Gaz. vol. 219; p. 968.
- Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company of New Jersey. Grain-harvester. No. 1,159,887; Nov. 9; Gaz. vol. 220; p. 552.

Alphabetical list of patentees—Continued.

- Benjamin, Clarence F., Milford, Conn. Combined carpenter's square and miter-gage. No. 1,158,775; Nov. 2; Gaz. vol. 220; p. 128.
- Benjamin, Dowling, Camden, N. J. Compound density and freezing-point indicator. No. 1,159,889; Nov. 9; Gaz. vol. 220; p. 553.
- Benjamin Eastwood Company. (See Searing, Eugene P., assignor.)
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben R., assignor.)
- Benjamin Electric Manufacturing Company. (See Dean, William W., assignor.)
- Benjamin Electric Manufacturing Company. (See Trezoning, William C., assignor.)
- Benjamin, George E., Waterbury, Conn., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,126,358; Jan. 26; Gaz. vol. 210; p. 1231.
- Benjamin, George H. (See Hübner, Robert, assignor.)
- Benjamin, George H., New York, N. Y. Bobbin. No. 1,140,352; May 25; Gaz. vol. 214; p. 1033.
- Benjamin, George H., New York, N. Y. Producing sugar-bearing bodies. No. 1,140,353; May 25; Gaz. vol. 214; p. 1033.
- Benjamin, George H., New York, N. Y. Bobbin. No. 1,156,579; Oct. 12; Gaz. vol. 219; p. 462.
- Benjamin, George H., New York, N. Y. Making soluble coffee. No. 1,158,431; Nov. 2; Gaz. vol. 220; p. 6.
- Benjamin, George H., New York, N. Y. System of automatic block-signalling for railways. No. 1,160,129; Nov. 16; Gaz. vol. 220; p. 690.
- Benjamin, George H., New York, N. Y. System of automatic block-signalling for electric railways. No. 1,163,063; Dec. 7; Gaz. vol. 221; p. 114.
- Benjamin, George H., New York, N. Y., assignor to W. T. Lane & Brother, Poughkeepsie, N. Y. Basket. No. 1,148,948; Aug. 3; Gaz. vol. 217; p. 164.
- Benjamin, George H., New York, N. Y., assignor to W. T. Lane & Brother, Poughkeepsie, N. Y. Basket. No. 1,148,949; Aug. 3; Gaz. vol. 217; p. 164.
- Benjamin, Harry S., Rochester, N. Y. Filling device. No. 1,154,476; Sept. 21; Gaz. vol. 218; p. 813.
- Benjamin, James I., New York, N. Y. Cap. No. 1,145,463; July 6; Gaz. vol. 216; p. 172.
- Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Company. Paterson, N. J. Sole-slotting machine. No. 1,153,886; Sept. 21; Gaz. vol. 218; p. 612.
- Benjamin, Morris, Atlanta, Ga., assignor to Benjamin Pulverizer Co., New York, N. Y. Lubricating system for pulverizers. No. 1,142,746; June 8; Gaz. vol. 215; p. 815.
- Benjamin, Newton, Elmira, N. Y. Armored tire. No. 1,164,978; Dec. 21; Gaz. vol. 221; p. 871.
- Benjamin Pulverizer Co. (See Benjamin, Morris, assignor.)
- Benjamin, Reuben R., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Separable attachment-plug. No. 1,154,963; Sept. 28; Gaz. vol. 218; p. 1007.
- Benjamin, Reuben R., assignor to Benjamin Electric Mfg. Company, Chicago, Ill. Electrolier. No. 1,158,113; Oct. 26; Gaz. vol. 219; p. 1093.
- Benjamin, William H., Roseburg, Ore. Brake. No. 1,135,872; Apr. 13; Gaz. vol. 213; p. 676.
- Benjamin, William T., assignor to Shoe Manufacturers' Supply Company, Newark, N. J. Machine for marking buttonholes. No. 1,156,580; Oct. 12; Gaz. vol. 219; p. 463.
- Benjamins, Israel, assignor to Mark & Mohl, Inc., Brooklyn, N. Y. Grating. No. 1,140,657; May 25; Gaz. vol. 214; p. 1141.
- Benka, Elek, Woodland, Me. Milk-boiler. No. 1,149,156; Aug. 3; Gaz. vol. 217; p. 235.
- Benker, John. (See Stengel, William F., assignor.)
- Benko, Kalman F., Syracuse, N. Y. Traveler's toilet set. No. 1,164,979; Dec. 21; Gaz. vol. 221; p. 871.
- Benkovics, Marek, Johnstown, N. Y. Brake-shoe mechanism. No. 1,123,468; Jan. 5; Gaz. vol. 210; p. 93.
- Benmosche, Moses, Nashua, N. H., and R. P. Elliott, Boston, Mass. Hypodermic syringe. No. 1,144,343; June 29; Gaz. vol. 215; p. 1269.
- Benn, William E., McAdam Junction, New Brunswick, Canada. Air-brake hose-coupling. No. 1,166,407; Dec. 28; Gaz. vol. 221; p. 1414.
- Benn, William E., McAdam Junction, assignor of one-half to G. E. Davis, Debec Junction, New Brunswick, Canada, and W. B. Hall, Caribou, Me. Train-signal system. No. 1,126,178; Jan. 26; Gaz. vol. 210; p. 1167.
- Benner, James H., Akron, Ohio. Combined rail tie and fastener. No. 1,156,581; Oct. 12; Gaz. vol. 219; p. 463.
- Benner, Russell E., assignor to Barroughs Adding Machine Company, Detroit, Mich. Dash-pot. No. 1,150,925; Aug. 24; Gaz. vol. 217; p. 1087.
- Benners, Edwin H., Elizabeth, N. J. Side frame for car-trucks. No. 1,131,031; Mar. 9; Gaz. vol. 212; p. 448.
- Bennett, Archie R., Knoxville, Tenn. Mail-box signal. No. 1,139,155; May 11; Gaz. vol. 214; p. 544.
- Bennett, Ashley C., Minneapolis, Minn. Carbureter. No. 1,123,469; Jan. 5; Gaz. vol. 210; p. 93.
- Bennett, Ashley C., Minneapolis, Minn. Carbureter. No. 1,130,700; Mar. 9; Gaz. vol. 212; p. 335.
- Bennett, Ashley C., Minneapolis, Minn. Carbureter. No. 1,133,527; Mar. 30; Gaz. vol. 212; p. 1461.
- Bennett, Ashley C., Minneapolis, Minn. Carbureter-manifold. No. 1,133,528; Mar. 30; Gaz. vol. 212; p. 1462.
- Bennett, Ashley C., Minneapolis, Minn. Carbureter. No. 1,136,997; Apr. 27; Gaz. vol. 213; p. 1152.
- Bennett, Bankston A. (See Mercer, Alonzo M., assignor.)
- Bennett, Charles, Cleveland, Ohio. Boat clamp-screw. No. 1,147,070; July 20; Gaz. vol. 216; p. 773.
- Bennett, Charles C., West Liberty, Ill. Barrel-packing-head holder. No. 1,133,701; Mar. 30; Gaz. vol. 212; p. 1526.
- Bennett, Charles D., Scipio, Ind. Combined post and tension device for wire fences. No. 1,128,095; Feb. 9; Gaz. vol. 211; p. 543.
- Bennett, Clarence E. (See Foster, Turner, Bennett, and Linn.)
- Bennett, Clarence W., Toledo, Ohio. Child's sulky. No. 1,131,197; Mar. 9; Gaz. vol. 212; p. 504.
- Bennett, Cornelius V., assignor to The Locke Insulator Manufacturing Company, Victor, N. Y. Die for insulators. No. 1,157,612; Oct. 19; Gaz. vol. 219; p. 852.
- Bennett, Cyril G. M., London, and S. H. Smith, West Ealing, assignors to Smokeless Economisers Limited, London, England. Oil-fuel burner. No. 1,144,021; June 22; Gaz. vol. 215; p. 1126.
- Bennett, David E. (See Driscoll, John, assignor.)
- Bennett, Don A., assignor of one-half to A. Fenske, Seattle, Wash. Gasolene-strainer. No. 1,146,748; July 13; Gaz. vol. 216; p. 640.
- Bennett, Edward B., and J. Armstrong, Kansas City, Kans. Combined gage and compass. No. 1,155,542; Oct. 5; Gaz. vol. 219; p. 77.
- Bennett, Edward O., San Jose, assignor of one-fourth to H. A. Munro, Gilroy, and one-eighth to C. A. Preston, San Francisco, Cal. Coin and check operative lock. No. 1,142,392; June 8; Gaz. vol. 215; p. 497.
- Bennett, Erastus B., Denver, Colo. Amalgamator. No. 1,157,836; Oct. 26; Gaz. vol. 219; p. 995.
- Bennett, Francis I., Nutley, N. J. Steerable sled. No. 1,160,130; Nov. 16; Gaz. vol. 220; p. 691.
- Bennett, Frank, Delmar, N. Y. Door-lock. No. 1,124,992; Jan. 12; Gaz. vol. 210; p. 673.
- Bennett, Frank, Delmar, N. Y. Flour-sifter. No. 1,124,993; Jan. 12; Gaz. vol. 210; p. 674.
- Bennett, Frank H. (See Blair, George R., assignor.)
- Bennett, Frank H., and E. A. Robertson, Sheffield, Ala. Hinge. No. 1,141,303; June 1; Gaz. vol. 215; p. 77.
- Bennett, Frederick E., Ulysses, Pa. Gas-bracket stove. No. 1,148,435; July 27; Gaz. vol. 216; p. 1280.
- Bennett, Frederick G., et al. (See Attridge, Oliver H., assignor.)
- Bennett, Frederick G., et al. (See Wade, Samuel L., assignor.)
- Bennett, George M., Kenosha, Wis. Securing an apertured member to a cylindrical member. No. 1,157,666; Oct. 26; Gaz. vol. 219; p. 937.
- Bennett, George R., Denver, Colo. Rock-drill. No. 1,127,396; Feb. 9; Gaz. vol. 211; p. 296.
- Bennett, Gustave, Jersey City, N. J. Bed, &c. No. 1,146,123; July 13; Gaz. vol. 216; p. 422.
- Bennett, James A., et al. (See Wolfe, Ira B., assignor.)
- Bennett, James C., Detroit, Mich. Blower for boilers. No. 1,139,630; May 18; Gaz. vol. 214; p. 745.
- Bennett, James C., Detroit, Mich. Blower for boilers. No. 1,141,304; June 1; Gaz. vol. 215; p. 78.
- Bennett, James E., Muncie, Ill. Locomotive. No. 1,151,240; Aug. 24; Gaz. vol. 217; p. 1195.
- Bennett, James L., and O. C. Sevebeck, San Diego, Cal. Internal-combustion engine. No. 1,150,411; Aug. 17; Gaz. vol. 217; p. 852.
- Bennett, Joseph C., assignor to Otis-Fensom Elevator Company, Limited, Toronto, Ontario, Canada. Elevator-gate. No. 1,156,204; Oct. 12; Gaz. vol. 219; p. 330.
- Bennett, Maggie, et al. (See Toney, Joseph, assignor.)
- Bennett, Orin, Placerville, Cal. Carriage-escapement for type-writing machines. No. 1,151,755; Aug. 31; Gaz. vol. 217; p. 1415.
- Bennett, Orin, Placerville, Cal. Carriage-return mechanism for type-writing machines. No. 1,151,756; Aug. 31; Gaz. vol. 217; p. 1416.
- Bennett, Orin, Placerville, Cal. Type-writing machine. No. 1,151,757; Aug. 31; Gaz. vol. 217; p. 1416.
- Bennett, Sarah J., Denison, Kans. Mattress-handle. No. 1,162,551; Nov. 30; Gaz. vol. 220; p. 1632.
- Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Pneumatic automatic musical instrument. No. 1,135,152; Apr. 13; Gaz. vol. 213; p. 426.
- Bennett, Theodore J., assignor to B. H. Kaufman, Bloomfield, N. J. Hat-stretching apparatus. No. 1,143,935; June 22; Gaz. vol. 215; p. 1095.
- Bennett, Thomas F., Philadelphia, Pa. Incinerating plant. No. 1,158,162; Oct. 26; Gaz. vol. 219; p. 1110.
- Bennett, Thomas S., Seattle, Wash. Safety-pin catch. No. 1,139,836; May 18; Gaz. vol. 214; p. 817.
- Bennett, W. S., et al. (See Koehler, Maximilian E., assignor.)
- Bennett, Walter E., Houston, Tex. Fuel-economizer. No. 1,153,994; Sept. 21; Gaz. vol. 218; p. 648.

- Bennett, Walter E., assignor to Clover Leaf Manufacturing Company, Carbondale, Pa. Bobbin. No. 1,140,868; May 25; Gaz. vol. 214; p. 1214.
- Bennett, William L., Downingtown, Pa. Combined fender and wheel-brake. No. 1,164,569; Dec. 14; Gaz. vol. 221; p. 685.
- Bennetts, John G. (See Knight and Bennetts.)
- Bennion, Charles F., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,123,662; Jan. 5; Gaz. vol. 210; p. 150.
- Bennion, Charles F., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Stretching shoe-uppers. No. 1,123,663; Jan. 5; Gaz. vol. 210; p. 159.
- Benoit, Aime, assignor of one-half to J. A. Duffy, Red Lake Falls, Minn. Guard-finger. No. 1,133,219; Mar. 23; Gaz. vol. 212; p. 1315.
- Benoit, Arthur L. (See Sturdevant and Benoit.)
- Benoit, Joseph F., Sanford, Me. Tension device for winding-machines. No. 1,158,432; Nov. 2; Gaz. vol. 220; p. 7.
- Bens, Samuel J., Berkeley, and A. B. Hubbard, Oakland, Cal. Toilet-paper holder. No. 1,156,266; Oct. 12; Gaz. vol. 219; p. 351.
- Benson, Bernard, Chicago, Ill. Flushing mechanism. No. 1,139,397; May 11; Gaz. vol. 214; p. 626.
- Benson, Victor, Duluth, Minn. Bow-facing oar. No. 1,133,220; Mar. 23; Gaz. vol. 212; p. 1315.
- Bensinger, Carl, Mannheim, Germany. Manufacture of hollow combs. No. 1,124,691; Jan. 12; Gaz. vol. 210; p. 567.
- Benson, Albert, *et al.* (See Benson, Andrew, assignor.)
- Benson, Andrew, assignor to Benson Gear Company, Chicago, Ill. Cutting worm-gears. No. 1,131,198; Mar. 9; Gaz. vol. 212; p. 505.
- Benson, Andrew, assignor of one-fourth to J. A. Benson, one-fourth to H. Benson, and one-fourth to A. Benson, Batavia, Ill. Dumping-wagon. No. 1,159,640; Nov. 9; Gaz. vol. 220; p. 463.
- Benson, Andrew C. (See Benson, John C. and A. C.)
- Benson, Anthon B., St. Paul, Minn. Refrigerator. No. 1,159,564; Nov. 9; Gaz. vol. 220; p. 435.
- Benson, Autha C., Rosenberg, Tex. Fence-stay. No. 1,136,088; Apr. 20; Gaz. vol. 213; p. 791.
- Benson, Axle, assignor to No-Sag Gate Company, Galesburg, Ill. Baling-press. No. 1,125,938; Jan. 26; Gaz. vol. 210; p. 1077.
- Benson, David, Lamolille, Ill. Grain-sprouter. No. 1,130,135; Mar. 2; Gaz. vol. 212; p. 102.
- Benson Dry Plate and Camera Co. (See Benson, William S., assignor.)
- Benson, Edwin A. (See Tate, Charles G., assignor.)
- Benson, Emil, Hartford, Conn. Trolley-retriever. No. 1,152,269; Aug. 31; Gaz. vol. 217; p. 1593.
- Benson, Ernest J., assignor of one-half to C. V. Fisher, Blackfoot, Idaho. Chain-tightening device. No. 1,160,823; Nov. 16; Gaz. vol. 220; p. 936.
- Benson Gear Company. (See Benson, Andrew, assignor.)
- Benson, Harry H., and A. H. Asprooth, Rockford, Ill. Fluid-clutch. No. 1,145,464; July 6; Gaz. vol. 216; p. 172.
- Benson, Henry, *et al.* (See Benson, Andrew, assignor.)
- Benson, Ira C., Silver City, Idaho. Irrigating device. No. 1,143,351; June 15; Gaz. vol. 215; p. 871.
- Benson, John A., *et al.* (See Benson, Andrew, assignor.)
- Benson, John C. and A. C., Huttig, Ark. Check-valve. No. 1,147,292; July 20; Gaz. vol. 216; p. 849.
- Benson, John E. (See Potter and Benson.)
- Benson, Melvin B., assignor of one-half to G. A. Tomlinson, Duluth, Minn. Recording-compass. No. 1,131,622; Mar. 9; Gaz. vol. 212; p. 651.
- Benson, Morris N. (See Norris, Robert E., assignor.)
- Benson, Ralph G., assignor to The Cable Company, Chicago, Ill. Adjusting device for musical instruments. No. 1,125,047; Jan. 19; Gaz. vol. 210; p. 728.
- Benson, W. J., *et al.* (See Henneuse, Clarence A., assignor.)
- Benson, William J. (See Johnson, Alfred C., assignor.)
- Benson, William S., assignor to Benson Dry Plate and Camera Co., New York, N. Y. Dry-plate camera. No. 1,127,164; Feb. 2; Gaz. vol. 211; p. 176.
- Benster, Olin W., Toledo, Ohio. Loom for weaving wire fabric. No. 1,152,592; Sept. 7; Gaz. vol. 218; p. 79.
- Bent, Stedman. (See Newhall, Ezra A., assignor.)
- Bente, Henry K., assignor of one-fourth to M. T. Henderson and one-fourth to E. D. Bosserman, Sedalia, Mo. Fence-post. No. 1,144,288; June 22; Gaz. vol. 215; p. 1222.
- Bentfeld, Benedikt, assignor to I. A. Hall, Paterson, N. J. Heddle-frame. No. 1,150,012; Aug. 17; Gaz. vol. 217; p. 711.
- Bentine, William H. (See Huntley and Bentine.)
- Bentley, Anson J., Niles, and F. F. Bentley, Warren, Ohio. Brick-pallet. No. 1,140,104; May 18; Gaz. vol. 214; p. 914.
- Bentley, F. R. (See Irish, Luther B., assignor.)
- Bentley, Frank, Watertown, assignor to Simplex Wire & Cable Company, Cambridge, Mass. Braider mechanism. No. 1,154,964; Sept. 28; Gaz. vol. 218; p. 1008.
- Bentley, Frank F. (See Bentley, Anson J. and F. F.)
- Bentley, Frank F., Warren, Ohio. Spray-trough for cooling condensers. No. 1,139,156; May 11; Gaz. vol. 214; p. 544.
- Bentley, George H., Westminster, assignor of one-half to E. G. Appleby, London, England. Gas-generator. No. 1,153,417; Sept. 14; Gaz. vol. 218; p. 412.
- Bentley, Oliver D. H., assignor to B. F. Sturtevant Company, Boston, Mass. Bearing. No. 1,150,485; Aug. 17; Gaz. vol. 217; p. 877.
- Bentley, Oliver D. H., assignor to B. F. Sturtevant Company, Boston, Mass. Turbine-rotor. No. 1,166,316; Dec. 28; Gaz. vol. 221; p. 1381.
- Benton, Albert H., Long Island City, assignor to Defiance Button Machine Co., New York, N. Y. Safety device for presses. No. 1,125,257; Jan. 19; Gaz. vol. 210; p. 804.
- Benton, Earl M., Greeley, Colo. Meat-cutting machine. No. 1,130,248; Mar. 2; Gaz. vol. 212; p. 141.
- Benton, Edward T., Jr., Washington, D. C. Plate-setting and heel-blank-binding device. No. 1,124,265; Jan. 12; Gaz. vol. 210; p. 412.
- Benton, Francis E., Stoughton, Mass. Last. No. 1,150,735; Aug. 17; Gaz. vol. 217; p. 963.
- Benton, Henry, Elizabeth, N. J. Fire-grate. No. 1,131,461; Mar. 9; Gaz. vol. 212; p. 596.
- Benton, Henry, Elizabeth, N. J. Furnace-grate. No. 1,139,097; May 11; Gaz. vol. 214; p. 523.
- Bentz, William T., and W. McKee, assignors to The Elyria Iron & Steel Company, Elyria, Ohio. Gate. No. 1,128,839; Feb. 16; Gaz. vol. 211; p. 849.
- Benus, Henry P., Kansas City, Kans. Sash-lock. No. 1,150,412; Aug. 17; Gaz. vol. 217; p. 852.
- Benz, Eugene A. (See Hoecker and Benz.)
- Benzing, Alfred B., assignor to St. Louis Coffin Company, St. Louis, Mo. Coffin. No. 1,134,719; Apr. 6; Gaz. vol. 213; p. 233.
- Beppler, Adolph, St. Louis, Mo. Household can-sealer. No. 1,131,901; Mar. 16; Gaz. vol. 212; p. 787.
- Beran, Albert, Hirschwang, Austria-Hungary. Roller mechanism for producing corrugated paper, metal, and the like. No. 1,150,805; Aug. 17; Gaz. vol. 217; p. 988.
- Berbecker & Rowland Manufacturing Company. (See Lann, Christian F., assignor.)
- Bercaw, John W., Hamilton, assignor to The American Laundry Machinery Company, Norwood, Ohio. Laundry-washing machine. (Reissue.) No. 13,922; June 8; Gaz. vol. 215; p. 634.
- Berehen, Roy, Fayetteville, Tenn. Acetylene-gas generator. No. 1,159,159; Nov. 2; Gaz. vol. 220; p. 259.
- Berehtold, John A., Sigel, Ill. Yardstick-support. No. 1,143,489; June 15; Gaz. vol. 215; p. 918.
- Berdan, Charles M., Maywood, N. J. Blanket-holder. No. 1,156,740; Oct. 12; Gaz. vol. 219; p. 519.
- Berebaum, Lee E., Chicago, Ill. Garment-supporter. No. 1,152,929; Sept. 7; Gaz. vol. 218; p. 202.
- Berebaum, Lee E., Chicago, Ill. Fabric-clasp. No. 1,154,362; Sept. 21; Gaz. vol. 218; p. 776.
- Beregh, Theodore J., assignor of one-half to C. Francis, New York, N. Y. Paper-feed-controlling apparatus. No. 1,149,018; Aug. 3; Gaz. vol. 217; p. 189.
- Berendes, Rudolph, Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Gallo-carboxylic-acid compounds. No. 1,150,654; Aug. 17; Gaz. vol. 217; p. 937.
- Berens, Stanislaus, Chicago, Ill. Headlight-lamp for automobiles. No. 1,135,566; Apr. 13; Gaz. vol. 213; p. 569.
- Berenstein, Frank, Chelsea, assignor of one-half to W. Bernstein, Boston, Mass. Friction and metal plug for rubber heels and other tread-surfaces. No. 1,155,874; Oct. 5; Gaz. vol. 219; p. 192.
- Beres, Steve, East Youngstown, Ohio. Non-skid device. No. 1,132,905; Mar. 23; Gaz. vol. 212; p. 1201.
- Beresford, Fred G., assignor to Maywood Packing Co., Corning, Cal. Preparing olives and product thereof. No. 1,154,363; Sept. 21; Gaz. vol. 218; p. 776.
- Berfield, Montgomery, Vergas, Minn. Grinding-machine. No. 1,143,882; June 22; Gaz. vol. 215; p. 1077.
- Berg, Albert and H., Marysville, Cal. Distillate-burner. No. 1,162,552; Nov. 30; Gaz. vol. 220; p. 1632.
- Berg, Carl, Brooklyn, assignor to J. W. Beard, New York, N. Y. Cultivator-tooth. No. 1,133,221; Mar. 23; Gaz. vol. 212; p. 1315.
- Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Method and apparatus for measuring the flow of fluids. No. 1,156,660; Oct. 12; Gaz. vol. 219; p. 492.
- Berg, Frederick A., Chicago, Ill. Shutter for motion-picture machines. No. 1,160,824; Nov. 16; Gaz. vol. 220; p. 936.
- Berg, Fritz. (See Nies, Vogel, and Berg.)
- Berg, Henry. (See Berg, Albert and H.)
- Berg, Henry. (See Rifter, Theodore J., assignor.)
- Berg, John, Chicago, Ill. Refuse and garbage receptacle. No. 1,160,566; Nov. 16; Gaz. vol. 220; p. 843.
- Berg, John, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Electric lamp. No. 1,142,548; June 8; Gaz. vol. 215; p. 551.
- Berg, Lars J., assignor to The Pullman Company, Chicago, Ill. Upper buffing mechanism for railway-cars. No. 1,137,734; May 4; Gaz. vol. 214; p. 5.

Alphabetical list of patentees—Continued.

- Berg, Olaf, Rjukan, assignor to Norsk Hydro-Elektrisk Kvaestofaktieselskab, Christiania, Norway. Simultaneously scraping off and granulating substances. No. 1,137,181; Apr. 27; Gaz. vol. 213; p. 1219.
- Berg, Oscar W., Kewanee, Ill., assignor to National Tube Company, Pittsburgh, Pa. Chuck. No. 1,141,305; June 1; Gaz. vol. 215; p. 78.
- Berge, Samuel, Lethbridge, Alberta, Canada. Cleaning device for hand-rakes. No. 1,138,530; May 4; Gaz. vol. 214; p. 282.
- Bergedorfer Eisenwerk Aktiengesellschaft. (See Hansen, Emil, assignor.)
- Bergen, George B., Springfield, Ohio. Lead-pencil. No. 1,142,794; June 15; Gaz. vol. 215; p. 675.
- Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Scale. No. 1,154,965; Sept. 28; Gaz. vol. 218; p. 1008.
- Bergendahl, Einar B., Chicago, Ill., assignor to H. R. Kethley, Davenport, Iowa. Car-underframe. No. 1,141,084; May 25; Gaz. vol. 214; p. 1287.
- Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Convertible lamp. No. 1,136,580; Apr. 20; Gaz. vol. 213; p. 968.
- Bergengroth, William, New York, N. Y. Fire-escape. No. 1,125,797; Jan. 19; Gaz. vol. 210; p. 996.
- Bergengroth, William, New York, N. Y. Fire-escape. No. 1,164,980; Dec. 21; Gaz. vol. 221; p. 871.
- Berger, Arthur. (See Remy and Berger.)
- Berger, Bruno A., Richmond, Va. Bracket. No. 1,156,129; Oct. 12; Gaz. vol. 219; p. 306.
- Berger, Christian, New York, N. Y., assignor to Submarine Wireless Company. Submarine signaling apparatus. No. 1,155,124; Sept. 28; Gaz. vol. 218; p. 1066.
- Berger, Christian L., Boston, Mass. Surveyor's instrument. No. 1,125,939; Jan. 26; Gaz. vol. 210; p. 1078.
- Berger, Christian L., Boston, Mass. Surveyor's instrument. No. 1,135,153; Apr. 13; Gaz. vol. 213; p. 426.
- Berger, Christian L., Boston, Mass. Spirit-level. No. 1,148,349; July 27; Gaz. vol. 216; p. 1252.
- Berger, Homer S., Muncy, Pa. Gate-valve. No. 1,134,811; Apr. 6; Gaz. vol. 213; p. 265.
- Berger, James A., et al. (See German, Solomon, assignor.)
- Berger, Joseph, Bayonne, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,133,608; Mar. 30; Gaz. vol. 212; p. 1490.
- Berger, Joseph, Jr. (See Hayes and Berger.)
- Berger, Joseph, Jr., Utica, N. Y., assignor, by mesne assignments, to Union Special Machine Company. Feeding mechanism for sewing-machines. No. 1,124,198; Jan. 5; Gaz. vol. 210; p. 341.
- Berger, Leopold, Pittsburgh, Pa. Cuspidor. No. 1,148,283; July 27; Gaz. vol. 216; p. 1227.
- Berger, Louis, and G. A. Hassinger, New Orleans, La. Non-refillable bottle. No. 1,136,762; Apr. 20; Gaz. vol. 213; p. 1033.
- Berger, Max, et al. (See Martin and Jones, assignors.)
- Berger, Otto R., Cleveland, Ohio. Molder's flask. No. 1,149,328; Aug. 10; Gaz. vol. 217; p. 404.
- Berger, Otto R., Cleveland, Ohio. Snap-flask. No. 1,154,559; Sept. 21; Gaz. vol. 218; p. 841.
- Berger, Richard A., assignor to Sapal Société Anonyme Des Plieuses Automatiques, Lausanne, Switzerland. Machine for wrapping sweets. No. 1,144,022; June 22; Gaz. vol. 215; p. 1127.
- Berger, Samuel, New York, N. Y. Cigar-maker's moistening device. No. 1,127,165; Feb. 2; Gaz. vol. 211; p. 177.
- Berger, William, Morton, Ill. Fender for agricultural implements. No. 1,150,847; Aug. 24; Gaz. vol. 217; p. 1061.
- Bergerson, Henry O., Hawley, Minn. Treadle-operating mechanism. No. 1,161,018; Nov. 23; Gaz. vol. 220; p. 1050.
- Bergesen, John, New York, N. Y. Oscillating engine. No. 1,125,639; Jan. 19; Gaz. vol. 210; p. 938.
- Bergfeld, Reinhold, assignor to Berlin Anhaltische Maschinenbau-Aktiengesellschaft, Berlin, Germany. Gas-mixer. No. 1,123,981; Jan. 5; Gaz. vol. 210; p. 265.
- Berggren, Karl J., Spokane, Wash. Sleeping-bed structure. No. 1,132,906; Mar. 23; Gaz. vol. 212; p. 1202.
- Bergh, Frederick P. (See Taylor and Bergh.)
- Bergh, Frederick P., Yonkers, N. Y. Atomizer. No. 1,129,540; Feb. 23; Gaz. vol. 211; p. 1132.
- Bergh, Frederick P., and H. C. Neuberger, New York, N. Y., assignors, by mesne assignments, to General Reduction Company. Treating starch, &c. No. 1,133,914; Mar. 30; Gaz. vol. 212; p. 1598.
- Berglund, Albin E., Motley, Minn. Cutter attachment. No. 1,154,837; Sept. 28; Gaz. vol. 218; p. 965.
- Berglund, Edward S., Trollhättan, Sweden. Treating materials in electric furnaces. No. 1,160,244; Nov. 16; Gaz. vol. 220; p. 730.
- Berglund, Gustaf H. F., Stockholm, Sweden. Milking-machine. No. 1,128,574; Feb. 16; Gaz. vol. 211; p. 757.
- Berglund, Louis, et al. (See Fryberg, Elmer E., assignor.)
- Berglund, Otto R. P., Stockholm, Sweden. Two-cycle internal-combustion engine. No. 1,162,967; Dec. 7; Gaz. vol. 221; p. 81.
- Bergman, Carl O., assignor to C. Mark, Evanston, Ill. Thread-milling machine. No. 1,126,688; Feb. 2; Gaz. vol. 211; p. 7.
- Bergman, Erick, Wayside, Miss. Seine-puller machine. No. 1,164,629; Dec. 21; Gaz. vol. 221; p. 742.
- Bergman, Gustaf, Marlboro, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting apparatus. No. 1,161,918; Nov. 30; Gaz. vol. 220; p. 1413.
- Bergman, John, Brooklyn, N. Y. Electric relay system. No. 1,129,541; Feb. 23; Gaz. vol. 211; p. 1132.
- Bergman, John T., Winnipeg, Manitoba, Canada. Sheaf-loader. No. 1,124,274; Jan. 12; Gaz. vol. 210; p. 416.
- Bergman, Theodore, Chicago, Ill. Breast-drill support. No. 1,164,327; Dec. 14; Gaz. vol. 221; p. 602.
- Bergmann, Christian N., Pittsburgh, assignor of one-half to C. Schuster, Bellevue, Pa. Current-distributing apparatus. No. 1,162,553; Nov. 30; Gaz. vol. 220; p. 1632.
- Bergmann, Herman A., St. Louis, Mo. Pipe-cleaner tool. No. 1,145,966; July 13; Gaz. vol. 216; p. 366.
- Bergreen, Emanuel F., Brooklyn, N. Y. Show-case bracket. No. 1,144,930; June 29; Gaz. vol. 215; p. 1468.
- Bergren, John A., assignor of one-tenth to A. F. Youngberg and two-fifths to H. S. Wilson, Lake Park, Minn. Threshing-machine. No. 1,138,835; May 11; Gaz. vol. 214; p. 430.
- Bergstein, Samuel, Middletown, Ohio. Folding box. No. 1,131,462; Mar. 9; Gaz. vol. 212; p. 597.
- Bergstrom, Carl, Lawton, Okla. Attachment for cultivators. No. 1,143,591; June 15; Gaz. vol. 215; p. 954.
- Bergstrom, Carl O., assignor to B. F. Sturtevant Company, Boston, Mass. Brush-holder. No. 1,150,486; Aug. 17; Gaz. vol. 217; p. 878.
- Bergstrom, Edward F., assignor to W. T. Gill and F. L. Butman, Waltham, Mass. Envelop. No. 1,135,429; Apr. 13; Gaz. vol. 213; p. 520.
- Bergstrom, George O., assignor to Bergstrom Stove Company, Neenah, Wis. Stove or range. No. 1,160,245; Nov. 16; Gaz. vol. 220; p. 731.
- Bergström, Hilding O. V., Stockholm, Sweden. Producing methyl alcohol or other volatile substances from wood or other material containing cellulose. No. 1,129,542; Feb. 23; Gaz. vol. 211; p. 1132.
- Bergström, Hilding O. V., Stockholm, Sweden. Production of calcium-bisulfite liquor. No. 1,159,352; Nov. 9; Gaz. vol. 220; p. 360.
- Bergstrom, John P., Rhinelander, Wis. Meat-tenderer. No. 1,125,940; Jan. 26; Gaz. vol. 210; p. 1078.
- Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Wrench for veneer-press screws. No. 1,145,856; July 6; Gaz. vol. 216; p. 308.
- Bergstrom, Oscar M., Minneapolis, Minn. Gearing. No. 1,137,735; May 4; Gaz. vol. 214; p. 6.
- Bergstrom, Oscar M., assignor to Universal Manufacturing Company, Minneapolis, Minn. Explosive-engine. No. 1,150,244; Aug. 17; Gaz. vol. 217; p. 795.
- Bergstrom, Oscar M., assignor to Universal Manufacturing Company, Minneapolis, Minn. Explosive-engine. No. 1,161,184; Nov. 23; Gaz. vol. 220; p. 1109.
- Bergstrom Stove Company. (See Bergstrom, George O., assignor.)
- Bergwall, Edward A., Milwaukee, Wis. Tree-holder. No. 1,159,353; Nov. 9; Gaz. vol. 220; p. 360.
- Bering, Wilson M., Decatur, Ill. Cylinder-rake. No. 1,144,992; July 6; Gaz. vol. 216; p. 4.
- Beringer, Anna C., Bellwood, Neb. Hot-water belt. No. 1,159,160; Nov. 2; Gaz. vol. 220; p. 260.
- Berk, Edward P., Bucyrus, Ohio. Vulcanizer. No. 1,123,223; Jan. 5; Gaz. vol. 210; p. 7.
- Berkebile, Adam G., Somerset, Pa. Combination folding plumb-rule, straight-edge, and level. No. 1,163,203; Dec. 7; Gaz. vol. 221; p. 164.
- Berkeley Electric Cooker Company. (See Kercher, Arthur J., assignor.)
- Berkeley, Robert M. (See Huntley and Berkeley.)
- Berker, Adolf, and F. Sachtleben, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Device for conveying loads on pack-animals. No. 1,141,923; June 8; Gaz. vol. 215; p. 331.
- Berkey, Peter. (See Valasek, Otakar, assignor.)
- Berkey, Peter, Chicago, Ill. Carton. No. 1,124,266; Jan. 12; Gaz. vol. 210; p. 413.
- Berkey, Laurence J., Santa Monica, Cal. Bottle-crate. No. 1,154,906; Sept. 28; Gaz. vol. 218; p. 988.
- Berkowitz, Maurice, New York, N. Y. Patch-envelop machine. No. 1,161,829; Nov. 30; Gaz. vol. 220; p. 1381.
- Berlin-Anhaltische Maschinenbau-Aktien-Gesellschaft. (See Dicke, Hugo, assignor.)
- Berlin-Anhaltische Maschinenbau-Aktien-Gesellschaft. (See Schaefer, Karl, assignor.)
- Berlin-Anhaltische Maschinenbau-Aktiengesellschaft. (See Bergfeld, Reinhold, assignor.)
- Berliner, Emil, Washington, D. C. Helicopter. No. 1,152,268; Aug. 31; Gaz. vol. 217; p. 1593.
- Berliner, Emil, Washington, D. C. Two-cycle rotary gas-engine. No. 1,165,059; Dec. 21; Gaz. vol. 221; p. 898.
- Berliner, Emil, and H. D. Chapman, assignors to The Gyro Motor Company, Washington, D. C. Valve for gas-engines. No. 1,139,837; May 18; Gaz. vol. 214; p. 818.
- Berliner Import- und Export-Gesellschaft m. b. H. (See Finckh, Karl, assignor.)
- Berliner Maschinenbau-Aktien-Gesellschaft vormals L. Schwartzkopf. (See Kortmann, Paul, assignor.)

Alphabetical list of patentees—Continued.

- Berling, Wilhelm C., Buffalo, N. Y. Combination magnetogenerator. No. 1,165,221; Dec. 21; Gaz. vol. 221; p. 957.
- Berlize, Theophile, Brussels, Belgium. Explosion-motor. No. 1,151,654; Aug. 31; Gaz. vol. 217; p. 1381.
- Berman, Samuel, Chicago, Ill. Instep-arch support. No. 1,164,328; Dec. 14; Gaz. vol. 221; p. 603.
- Bernard, Benjamin, New York, N. Y. Garment. No. 1,123,224; Jan. 5; Gaz. vol. 210; p. 7.
- Bernard, Benjamin, Seattle, Wash. Dredge. No. 1,123,982; Jan. 5; Gaz. vol. 210; p. 266.
- Bernard, Jacob. (See Müller, Henry, assignor.)
- Bernard, James L., Beaver, Pa. Chuck. No. 1,154,283; Sept. 21; Gaz. vol. 218; p. 748.
- Bernard, James L., Beaver, Pa. Riveter. No. 1,162,742; Dec. 7; Gaz. vol. 221; p. 5.
- Bernard, John P., Orosi, Cal. Spring-tire. No. 1,150,736; Aug. 17; Gaz. vol. 217; p. 963.
- Bernard, Leopold, New York, N. Y. Controlling device for billiard-tables and the like. No. 1,125,640; Jan. 19; Gaz. vol. 210; p. 938.
- Bernard, Milton. (See Haskins, William F., assignor.)
- Bernard, Philip, Sioux City, Iowa. Hog-waterer. No. 1,130,662; Mar. 2; Gaz. vol. 212; p. 287.
- Bernard, Philip, Sioux City, Iowa. Rain-water filter. No. 1,130,663; Mar. 2; Gaz. vol. 212; p. 287.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Pliers or similar tool. No. 1,134,177; Apr. 6; Gaz. vol. 213; p. 34.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,159,641; Nov. 9; Gaz. vol. 220; p. 464.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,162,439; Nov. 30; Gaz. vol. 220; p. 1593.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,162,440; Nov. 30; Gaz. vol. 220; p. 1594.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Nippers or similar tool. No. 1,163,733; Dec. 14; Gaz. vol. 221; p. 395.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,164,981; Dec. 21; Gaz. vol. 221; p. 871.
- Bernardini, Adolph, and W. L. E. Keuffel, assignors to The Keuffel & Esser Company, Hoboken, N. J. Tape-reel. No. 1,144,993; July 6; Gaz. vol. 216; p. 5.
- Bernaer, Gaston, Philadelphia, Pa. Car-fender. No. 1,164,592; Dec. 14; Gaz. vol. 221; p. 693.
- Bernbrock, Henry O., *et al.* (See Walker, Daniel P., assignor.)
- Bernd, William, and L. W. Burden, New Richmond, Wis. Adjustment device for quack-grass plows. No. 1,129,780; Feb. 23; Gaz. vol. 211; p. 1211.
- Berndt, Wilhelm. (See Degener and Berndt.)
- Berndt, Wilhelm C. G., Kenesaw, Neb. Bundle-carrier attachment for binders. No. 1,139,013; May 11; Gaz. vol. 214; p. 493.
- Bernecker, Frank L., *et al.* (See Heinze, Gustav A., assignor.)
- Bernecker, George E., Chicago, Ill., assignor to The Cutler-Hammer Mfg. Co. Electric resistance device and means for regulating the same. No. 1,123,225; Jan. 5; Gaz. vol. 210; p. 8.
- Berneking, Edward F. (See Broschart and Berneking.)
- Bernet, John J. (See Ayers, Augustine R., assignor.)
- Bernett, Willis J., assignor to W. B. Thayer, Kansas City, Mo. Frictional coupling. No. 1,138,926; May 11; Gaz. vol. 214; p. 461.
- Bernhagen, Max P., Milwaukee, Wis. Leather-cutting machine. No. 1,159,161; Nov. 2; Gaz. vol. 220; p. 260.
- Bernhard, Bernie J., Chicago, Ill. Draft-arm and carry-on for railway-cars. No. 1,163,802; Dec. 14; Gaz. vol. 221; p. 420.
- Bernhard, Edward E., St. Mary Cray, England. Machine for marking show-cards or tickets. No. 1,134,812; Apr. 6; Gaz. vol. 213; p. 265.
- Bernhard, George, Dayton, Ohio. Garden-hose support. No. 1,132,065; Mar. 16; Gaz. vol. 212; p. 846.
- Bernhard, Louis, Boston, Mass. Arch construction. No. 1,158,776; Nov. 2; Gaz. vol. 220; p. 128.
- Bernhard, Michael H., Buffalo, N. Y., assignor to M. J. Bernhard Company, Inc. Ball-return for pool-tables. No. 1,137,736; May 4; Gaz. vol. 214; p. 6.
- Bernhard, Richard, and J. M. Sholl, Milwaukee, Wis., assignors to Power and Mining Machinery Company. Lubricating device for gyratory crushers. No. 1,145,967; July 13; Gaz. vol. 216; p. 366.
- Bernhardt, Peter. (See Van Guelpen and Bernhardt.)
- Bernheim, Lynn B., Louisville, Ky. Detachable tire. No. 1,145,741; July 6; Gaz. vol. 216; p. 268.
- Bernheim, Morris U., Cincinnati, assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. System for transferring freight and baggage. No. 1,124,267; Jan. 12; Gaz. vol. 210; p. 413.
- Bernheim, Morris U., Cincinnati, assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. System for transferring freight and baggage. No. 1,124,268; Jan. 12; Gaz. vol. 210; p. 413.
- Bernheim, Morris U., Cincinnati, assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. System for transferring freight and baggage. No. 1,124,269; Jan. 12; Gaz. vol. 210; p. 414.
- Bernheim, Morris U., Cincinnati, assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. System for transferring freight and baggage. No. 1,124,270; Jan. 12; Gaz. vol. 210; p. 414.
- Bernheim, Morris U., Cincinnati, assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. System for transferring freight and baggage. No. 1,124,273; Jan. 12; Gaz. vol. 210; p. 415.
- Bernheim, Morris U., assignor to The Alvey-Ferguson Company, Cincinnati, Ohio. Spiral conveyer. No. 1,129,781; Feb. 23; Gaz. vol. 211; p. 1211.
- Bernheim, Morris U., Louisville, Ky., assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. System for transferring freight and baggage. No. 1,124,271; Jan. 12; Gaz. vol. 210; p. 414.
- Bernheim, Morris U., Louisville, Ky., assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. System for handling freight and baggage. No. 1,124,272; Jan. 12; Gaz. vol. 210; p. 415.
- Bernheim, Morris U., Louisville, Ky., assignor, by mesne assignments, to The Alvey-Ferguson Company, Cincinnati, Ohio. Conveying system. No. 1,130,877; Mar. 9; Gaz. vol. 212; p. 395.
- Bernheim, Morris U., Louisville, Ky., assignor, by mesne assignments, to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. Friction-reducing bearing. No. 1,136,089; Apr. 20; Gaz. vol. 213; p. 791.
- Bernheim, Morris U., Louisville, Ky., assignor, by mesne assignments, to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. Bearing for shafts. No. 1,147,136; July 20; Gaz. vol. 216; p. 796.
- Bernheimer, Sanford J., assignor to The Electromobile Company, St. Louis, Mo. Motor-truck. No. 1,141,924; June 8; Gaz. vol. 215; p. 331.
- Bernholz, Philip G., Schenectady, N. Y. Telephone system. No. 1,140,658; May 25; Gaz. vol. 214; p. 1141.
- Bernia, John, assignor of one-half to C. E. Marker, Detroit, Mich. Scale. No. 1,144,685; June 29; Gaz. vol. 215; p. 1384.
- Bernier, Frederick, Fitchburg, Mass. Picker-stick attachment for looms. No. 1,153,595; Sept. 14; Gaz. vol. 218; p. 476.
- Bernor, John. (See Hewitt, Bernor, and Bacon.)
- Bernovits, Victor, assignor to "Procento" Hungarian Reckoning Machine and Typewriter Company, Limited, Kassa, Austria-Hungary. Machine for the calculation of interest and similar values. No. 1,145,179; July 6; Gaz. vol. 216; p. 71.
- Bernower, John A., *et al.* (See Klink, Frederick R., assignor.)
- Bernstein, Abraham, Cincinnati, Ohio. Loop for thill-supports. No. 1,133,356; Mar. 30; Gaz. vol. 212; p. 1400.
- Bernstein, Cella, New York, N. Y. Card-display holder. No. 1,148,742; Aug. 3; Gaz. vol. 217; p. 94.
- Bernstein, David S., Evansville, Ind. Pocket. No. 1,146,685; July 13; Gaz. vol. 216; p. 619.
- Bernstein, John, Lewisburg, Pa. Armor for inner tubes of pneumatic tires. No. 1,147,293; July 20; Gaz. vol. 216; p. 850.
- Bernstein, Leicester T. (See Dasher, Isidor R., assignor.)
- Bernstein, Louis, *et al.* (See Burke, Thomas, assignor.)
- Bernstein, Peter, Roxbury, Mass. Tire. No. 1,163,311; Dec. 7; Gaz. vol. 221; p. 202.
- Bernstein, Sándor. (See Kasanszky and Bernstein.)
- Bernstein, William. (See Berenstein, Frank, assignor.)
- Berold, Frederick H., Wyoming, Ohio. Closure. No. 1,150,736; Nov. 9; Gaz. vol. 220; p. 498.
- Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington. Apparatus for expressing liquids from solids. No. 1,130,701; Mar. 9; Gaz. vol. 212; p. 335.
- Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington. Pressing apparatus. No. 1,130,878; Mar. 9; Gaz. vol. 212; p. 396.
- Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington. Expressing liquids. No. 1,130,879; Mar. 9; Gaz. vol. 212; p. 396.
- Berrigan, John J., Orange, N. J., assignor to Henry R. Worthington. Pressing apparatus. No. 1,131,032; Mar. 9; Gaz. vol. 212; p. 448.
- Berrill, Thomas F. (See Frey and Berrill.)
- Berriman, Job, Virden, Ill. Car-coupling. No. 1,151,154; Aug. 24; Gaz. vol. 217; p. 1166.
- Berry, Andrew J. (See Schwartz, Willard A., assignor.)
- Berry, Carl A. (See Anderson and Berry.)
- Berry, Charles E., Somerville, Mass. Door check and lock. No. 1,147,921; July 27; Gaz. vol. 216; p. 1098.
- Berry, Charles V., Mansfield, Ohio. Door check and closer. No. 1,123,226; Jan. 5; Gaz. vol. 210; p. 8.
- Berry, David, Anchor Bay, Cal. Engine. No. 1,125,641; Jan. 19; Gaz. vol. 210; p. 939.
- Berry, Earle A., Kansas City, Mo. Ladder for stave structures. No. 1,153,750; Sept. 14; Gaz. vol. 218; p. 528.
- Berry, Earle A., Kansas City, Mo. Concrete-mold. No. 1,162,554; Nov. 30; Gaz. vol. 220; p. 1633.
- Berry, Earle A., Kansas City, Mo. Silo-ladder. No. 1,162,743; Dec. 7; Gaz. vol. 221; p. 5.

Alphabetical list of patentees—Continued.

- Berry, Edward F., New Orleans, La. Flexible joint. No. 1,153,187; Sept. 14; Gaz. vol. 218; p. 328.
- Berry, Edward R., Malden, Mass., assignor to General Electric Company. Shaping ceramic materials. No. 1,131,463; Mar. 9; Gaz. vol. 212; p. 597.
- Berry, Ephraim E., Seymour, Tex. Wheel. No. 1,161,285; Nov. 23; Gaz. vol. 220; p. 1146.
- Berry, Everet, *et al.* (See Way, David, assignor.)
- Berry, Frank E., *et al.* (See Berry, James E., assignor.)
- Berry, Frank K., assignor to A.-B. Stove Company, Battle Creek, Mich. Proportional gas and air mixer. No. 1,159,737; Nov. 9; Gaz. vol. 220; p. 498.
- Berry, Harry C., assignor to Rapid Transit Air Navigation Company, Los Angeles, Cal. Aerial-navigation machine. No. 1,133,609; Mar. 30; Gaz. vol. 212; p. 1491.
- Berry, Herbert H., London, England. Indicator for electric switches. No. 1,129,628; Feb. 23; Gaz. vol. 211; p. 1163.
- Berry, James, and D. T. Odineal, Lexington, Va. Illuminating attachment for telephones. No. 1,150,413; Aug. 17; Gaz. vol. 217; p. 852.
- Berry, James E., assignor of two-thirds to F. E. and R. C. Berry, Indianapolis, Ind. Reclining-chair. No. 1,165,489; Dec. 28; Gaz. vol. 221; p. 1087.
- Berry, James W., Iowa City, Iowa. Siphon for flush-tanks. No. 1,128,575; Feb. 16; Gaz. vol. 211; p. 758.
- Berry, John F., and W. E. Burrill, Bangor, Me. Cement-block machine. No. 1,143,490; June 15; Gaz. vol. 215; p. 919.
- Berry, John H., Owensboro, Ky. Cultivator. No. 1,135,756; Apr. 13; Gaz. vol. 213; p. 635.
- Berry, John M., *et al.* (See Mosteller Dosier H., assignor.)
- Berry, John S., Plainfield, N. J. Window. No. 1,153,200; Sept. 28; Gaz. vol. 218; p. 1091.
- Berry, John S., Norwood, Ohio. Window. No. 1,158,887; Nov. 2; Gaz. vol. 220; p. 168.
- Berry, Robert C., *et al.* (See Berry, James E., assignor.)
- Berry, Robert C., Indianapolis, Ind. Hack-saw-machine. No. 1,138,927; May 11; Gaz. vol. 214; p. 461.
- Berry, Robert C., Indianapolis, Ind. Band-saw. No. 1,152,696; Sept. 7; Gaz. vol. 218; p. 116.
- Berry, Thomas, and W. Breymaier, Bucyrus, Ohio. Cement burial-vault. No. 1,154,085; Sept. 21; Gaz. vol. 218; p. 680.
- Berry, Thomas O., Coahoma, Tex. Means for making continuous concrete pipes or tiles. No. 1,150,487; Aug. 17; Gaz. vol. 217; p. 878.
- Berry, Walter, North Tonawanda, N. Y. Tuning-fork and resonator. No. 1,166,317; Dec. 28; Gaz. vol. 221; p. 1382.
- Berryman, Joseph D., Philadelphia, Pa. Body for automobiles. No. 1,136,643; Apr. 20; Gaz. vol. 213; p. 989.
- Berstler, Joshua B., Middletown, Pa. Friction transmission-gearing. No. 1,129,629; Feb. 23; Gaz. vol. 211; p. 1163.
- Berthier, André V. P. M., Paris, France. Machine-gun. No. 1,144,994; July 6; Gaz. vol. 216; p. 5.
- Berthold, Edward E., Chicago, Ill. Annunciator-fixture for residences. No. 1,149,973; Aug. 10; Gaz. vol. 217; p. 636.
- Berthold, Henry J., Irvington, N. J. Spark-plug. No. 1,143,026; June 15; Gaz. vol. 215; p. 756.
- Berthold, Mart, Olex, Oreg. Caliper-gage. No. 1,127,955; Feb. 9; Gaz. vol. 211; p. 495.
- Berthon, Rodolphe, and M. Audibert, Villeurbanne, France; said Berthon assignor to said Audibert. Camera for color photography. No. 1,126,689; Feb. 2; Gaz. vol. 211; p. 7.
- Berthoud, Ray J., Swanton, Ohio. Anti-rail-creeper. No. 1,162,968; Dec. 7; Gaz. vol. 221; p. 82.
- Bertoli, Charles. (See Tegoli, August, assignor.)
- Bertoli, Charles R., *et al.* (See Tegoli, August, assignor.)
- Bertolini, Giuseppe. (See Nanni and Bertolini.)
- Bertolino, Dominick. (See Dailey and Bertolino.)
- Bertram, Charles, assignor to The Morreau Company, Cleveland, Ohio. Lamp-globe fixture. No. 1,146,471; July 13; Gaz. vol. 216; p. 547.
- Bertram, Charles, assignor to The Morreau Company, Cleveland, Ohio. Portable electric lamp. No. 1,147,205; July 20; Gaz. vol. 216; p. 821.
- Bertram, Hermann, Halle-on-the-Saale, Germany. Dough dividing and working machine. No. 1,150,655; Aug. 17; Gaz. vol. 217; p. 937.
- Bertram, Milton E., Cleveland, Ohio. Valve mechanism for internal-combustion engines. No. 1,128,935; Feb. 16; Gaz. vol. 211; p. 884.
- Bertram, William E., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Linotype-machine. No. 1,124,101; Jan. 5; Gaz. vol. 210; p. 307.
- Bertram, William E., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Slug-trimming mechanism for line-casting machines. No. 1,124,994; Jan. 12; Gaz. vol. 210; p. 674.
- Bertram, William E., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Line-casting machine. No. 1,153,020; Sept. 7; Gaz. vol. 218; p. 234.
- Bertram, William E., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Line composing and casting machine. No. 1,161,796; Nov. 23; Gaz. vol. 220; p. 1323.
- Bertrand, Louis, Seattle, Wash. Mowing-machine. No. 1,155,988; Oct. 5; Gaz. vol. 219; p. 229.
- Bertsch & Company. (See Tarpenning, Charles T., assignor.)
- Bertsch, John C., Fort Worth, Tex. Rotary refrigerating apparatus. No. 1,145,226; July 6; Gaz. vol. 216; p. 88.
- Bertucci, Peter J., New York, N. Y. Music-leaf turner. No. 1,133,915; Mar. 30; Gaz. vol. 212; p. 1599.
- Berwick, John W., Brooklyn, N. Y. Camera. No. 1,149,493; Aug. 10; Gaz. vol. 217; p. 460.
- Besag, Ernst, assignor to Voigt & Haefner Actien Gesellschaft, Frankfurt-on-the-Main, Germany. Polyphase-current starter. No. 1,147,071; July 20; Gaz. vol. 216; p. 774.
- Besaw, Willie O., Reedley, Cal. Postage-stamp. No. 1,131,464; Mar. 9; Gaz. vol. 212; p. 597.
- Besemann, Charles A., assignor to Superior Thermometer Company, Chicago, Ill. Mechanical movement for indicating instruments. No. 1,125,798; Jan. 19; Gaz. vol. 210; p. 997.
- Besharov, Naum S., Paterson, N. J. Tumbler for combination-locks. No. 1,156,741; Oct. 12; Gaz. vol. 219; p. 519.
- Besharov, Naum S. G., Paterson, N. J. Combination-lock. No. 1,144,887; June 29; Gaz. vol. 215; p. 1456.
- Beskow, Bernhard M., New York, N. Y., assignor to Commercial Tractor Company. Motor-truck. No. 1,124,275; Jan. 12; Gaz. vol. 210; p. 416.
- Beskow, Knut J. (See Ramén and Beskow.)
- Bessemer Gas Engine Company. (See Shepherd, Harold F., assignor.)
- Besser, Charles, Minonk, Ill. Nut-lock. No. 1,158,163; Oct. 26; Gaz. vol. 219; p. 1111.
- Besser, Herman, Alpena, Mich. Tire for vehicles. No. 1,150,986; Aug. 24; Gaz. vol. 217; p. 1108.
- Besser, Jacob, Jacksonville, Fla. Cigar-box. No. 1,134,990; Apr. 13; Gaz. vol. 213; p. 368.
- Besserlich, William A., assignor of one-half to B. A. Mosling, Clintonville, Wis. Transmission mechanism. No. 1,136,644; Apr. 20; Gaz. vol. 213; p. 989.
- Besserlich, William A., assignor of one-half to B. A. Mosling, Clintonville, Wis. Steering mechanism. No. 1,152,874; Sept. 7; Gaz. vol. 218; p. 182.
- Bessinger, George J. (See Dietz, Lafferty, and Bessinger.)
- Bessolo, William L., San Diego, Cal. Nut-wrench. No. 1,157,495; Oct. 19; Gaz. vol. 219; p. 815.
- Bessolo, William L., San Diego, Cal. Wrench. No. 1,158,164; Oct. 26; Gaz. vol. 219; p. 1111.
- Bessom, Earl A., and R. M. Anderson, assignors to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,134,942; Apr. 6; Gaz. vol. 213; p. 306.
- Besson, William M. T., assignor of one-half to H. A. Vaughan, Selma, Ala. Time-indicating device. No. 1,159,162; Nov. 2; Gaz. vol. 220; p. 260.
- Best, Annie H., New York, N. Y. Burner. No. 1,146,395; July 13; Gaz. vol. 216; p. 517.
- Best, Annie H., assignor of one-half to W. N. Best, Brooklyn, N. Y. Mechanical atomizer. No. 1,146,394; July 13; Gaz. vol. 216; p. 517.
- Best, Charles H., Morland, Kans. Vacuum-creator. No. 1,155,201; Sept. 28; Gaz. vol. 218; p. 1091.
- Best, Clarence A., Floyd Knobs, Ind. Broom-holder. No. 1,134,813; Apr. 6; Gaz. vol. 213; p. 265.
- Best, Clarence L., San Leandro, Cal. Autotractor. No. 1,158,114; Oct. 26; Gaz. vol. 219; p. 1093.
- Best, Clarence L., Elmhurst, Cal. Tractor-chain. No. 1,159,163; Nov. 2; Gaz. vol. 220; p. 261.
- Best & Company. (See Gallagher, Edward D., assignor.)
- Best, Eben, San Antonio, Tex. Nut-lock. No. 1,163,064; Dec. 7; Gaz. vol. 221; p. 115.
- Best, Harry L., Sr., Davis, W. Va. Sighting-shade. No. 1,154,838; Sept. 28; Gaz. vol. 218; p. 966.
- Best, John H., Guthrie, Okla. Baling-press. No. 1,155,543; Oct. 5; Gaz. vol. 219; p. 77.
- Best, Otto, San Francisco, Cal. Extraction, purification, and electrolytic precipitation of metallic zinc from smelter-fumes, zinc ores, and the like. No. 1,154,601; Sept. 28; Gaz. vol. 218; p. 885.
- Best, Otto, San Francisco, Cal. Hydrometallurgy of zinc. No. 1,154,602; Sept. 28; Gaz. vol. 218; p. 885.
- Best, Seward. (See Miller, Charles D., assignor.)
- Best, William J., and W. M. Mervin, Detroit, Mich. Broiler-pan. No. 1,159,890; Nov. 9; Gaz. vol. 220; p. 553.
- Best, William N. (See Best, Annie H., assignor.)
- Best, William N., New York, N. Y. Melting-furnace. No. 1,137,378; Apr. 27; Gaz. vol. 213; p. 1292.
- Best, William N., New York, N. Y. Gas-stove. No. 1,141,521; June 1; Gaz. vol. 215; p. 155.
- Best, William N., New York, N. Y., assignor of one-third to E. S. Hammond, Wilmington, Del. Furnace. No. 1,140,732; May 25; Gaz. vol. 214; p. 1165.
- Bestwall Manufacturing Company. (See Johnson, Frank W., assignor.)
- Beth, Wilhelm F. L., Lübeck, Germany. Apparatus for cleaning filters. No. 1,153,751; Sept. 14; Gaz. vol. 218; p. 528.
- Bethenod, Joseph. (See Girardeau, Emile, assignor.)
- Bethenod, Joseph. (See Girardeau and Bethenod.)

Alphabetical list of patentees—Continued.

- Bethka, Fredrick F., Schenectady, N. Y. Window shade and curtain holder. No. 1,155,343; Oct. 12; Gaz. vol. 219; p. 377.
- Bethke, Edward O. (See Bethke, Gustav O., assignor.)
- Bethke, Gustav O., assignor of one-half to E. O. Bethke, Chicago, Ill. Fermentation-lock. No. 1,151,335; Aug. 24; Gaz. vol. 217; p. 1225.
- Bethlehem Steel Company. (See Meigs and Jakobsson, assignors.)
- Bethlehem Steel Company. (See Mixsell, Leighton N. D., assignor.)
- Bethlehem Steel Company. (See Mixsell and Julstedt, assignors.)
- Bethlehem Steel Company, The. (See Stout and Lukens, assignors.)
- Bethlehem Steel Company. (See Von Philp, Casimir, assignor.)
- Bethlehem Steel Company. (See Wright, Carter L., assignor.)
- Betschart, Joseph S., Bridgeville, Pa. Game apparatus. No. 1,139,949; May 18; Gaz. vol. 214; p. 857.
- Bettcher Manufacturing Company, The. (See Painter, Otto G., assignor.)
- Betten, Henry L., Alameda, Cal. Carton. No. 1,123,470; Jan. 5; Gaz. vol. 210; p. 93.
- Betten, Henry L., Alameda, Cal. Interlocking rail-joint. No. 1,163,126; Dec. 7; Gaz. vol. 221; p. 136.
- Bettendorf Company, The. (See Taylor, Ralph G., assignor.)
- Bettenga, Creno P., Wadena, Minn. Rotary road-grader. No. 1,131,902; Mar. 16; Gaz. vol. 212; p. 787.
- Betteridge, Frederick H. (See Frankenburg and Betteridge.)
- Betterman, Reinhold, Johnstown, Pa. Tapping apparatus. No. 1,154,603; Sept. 28; Gaz. vol. 218; p. 885.
- Bettis, William I., Houston, Tex., assignor to F. C. Austin, Chicago, Ill. Bucket excavator. No. 1,162,676; Nov. 30; Gaz. vol. 220; p. 1670.
- Bettmann, Charles F., New Albany, Ind. Fan attachment for lawn-swings. No. 1,125,799; Jan. 19; Gaz. vol. 210; p. 997.
- Betts, Benjamin B., St. Louis, Mo. Tie-plate. No. 1,155,989; Oct. 5; Gaz. vol. 219; p. 229.
- Betts, Benjamin B., St. Louis, Mo. Tie-plate. No. 1,155,990; Oct. 5; Gaz. vol. 219; p. 230.
- Betts, Benjamin B., St. Louis, Mo. Tie-plate. No. 1,155,991; Oct. 5; Gaz. vol. 219; p. 230.
- Betts, Benjamin B., St. Louis, Mo. Guard-rail mounting. No. 1,155,992; Oct. 5; Gaz. vol. 219; p. 230.
- Betts, Benjamin B., St. Louis, Mo. Guard-rail mounting. No. 1,155,993; Oct. 5; Gaz. vol. 219; p. 231.
- Betts, Benjamin B., St. Louis, Mo. Guard-rail. No. 1,155,994; Oct. 5; Gaz. vol. 219; p. 231.
- Betts, Farron S., New York, N. Y. Post for loose-leaf binders. No. 1,138,619; May 11; Gaz. vol. 214; p. 351.
- Betts, John L. (See Smith, Jay B., assignor.)
- Betulander Automatic Telephone Company. (See Betulander, Gotthilf A., assignor.)
- Betulander Automatic Telephone Company, The. (See Betulander and Palmgren, assignors.)
- Betulander, Gotthilf A., Villa Castor, Södertörns Villastad, Sweden. Automatic or semi-automatic telephone-exchange system. No. 1,129,543; Feb. 23; Gaz. vol. 211; p. 1132.
- Betulander, Gotthilf A., Södertörns Villastad, Sweden, assignor to The Betulander Automatic Telephone Company, Limited, London, England. Impulse-transmitter for automatic telephone plants. No. 1,142,228; June 8; Gaz. vol. 215; p. 438.
- Betulander, Gotthilf A., Södertörns Villastad, and N. G. Palmgren, Stockholm, Sweden, assignors to The Betulander Automatic Telephone Company, Limited, London, England. Automatic telephone-exchange system. No. 1,162,556; Nov. 30; Gaz. vol. 220; p. 1633.
- Betz, William G., Chicago, Ill. Hammer rest-rail for pianos. No. 1,143,936; June 22; Gaz. vol. 215; p. 1096.
- Betz, William G., Chicago, Ill. Combination music-cabinet and piano-case. No. 1,145,828; July 6; Gaz. vol. 216; p. 299.
- Betz, William G., Chicago, Ill. Piano-back. No. 1,155,295; Sept. 28; Gaz. vol. 218; p. 1119.
- Beuchert, George H., et al. (See Hume, Walter E., assignor.)
- Beucus, Thomas, Cedar Springs, Mich. Carbureter. No. 1,126,690; Feb. 2; Gaz. vol. 211; p. 7.
- Baugler, Edwin F., assignor to E. & B. Holmes Machinery Co., Buffalo, N. Y. Variable-speed counter-shaft. No. 1,127,166; Feb. 2; Gaz. vol. 211; p. 177.
- Baugler, Edwin F., assignor to E. & B. Holmes Machinery Co., Buffalo, N. Y. Sandpapering-machine. No. 1,153,479; Sept. 14; Gaz. vol. 218; p. 433.
- Baugler, Edwin F., assignor to E. & B. Holmes Machinery Company, Buffalo, N. Y. Hoop expanding and flaring machine. No. 1,153,480; Sept. 14; Gaz. vol. 218; p. 434.
- Baugler, Edwin F., assignor to E. & B. Holmes Machinery Company, Buffalo, N. Y. Machine for making barrels. No. 1,154,684; Sept. 28; Gaz. vol. 218; p. 915.
- Benoy, George, Cedar Vale, Kans. Rotary engine. No. 1,127,723; Feb. 9; Gaz. vol. 211; p. 410.
- Beurrier, Alexis, Thaims par Cozes, and E. Bigourdan, Maise, France. Aerial vehicle. No. 1,147,294; July 20; Gaz. vol. 216; p. 850.
- Beutel, Werner, assignor of one-third to R. D. Hillebrant, Bridgeport, Conn. Automatic train-stopping mechanism. No. 1,157,144; Oct. 19; Gaz. vol. 219; p. 690.
- Beuther, William F., assignor of one-third to E. Cohn and one-third to R. G. Tafel, Louisville, Ky. Transfer-pad holder. No. 1,155,296; Sept. 28; Gaz. vol. 218; p. 1119.
- Beutlich, Richard F., assignor to The 20th Century Machinery Company, Chicago, Ill. Bottle-washer. No. 1,125,048; Jan. 19; Gaz. vol. 210; p. 728.
- Beutlich, Richard F., assignor to Twentieth Century Machinery Co., Chicago, Ill. Bottle-washing machine. No. 1,144,023; June 22; Gaz. vol. 215; p. 1128.
- Beutner, Amanda, New York, N. Y. Hat or bonnet pin protector. No. 1,166,172; Dec. 28; Gaz. vol. 221; p. 1328.
- Beutnell, Alfred W., Streatham, London, England. Show-case light. No. 1,137,379; Apr. 27; Gaz. vol. 213; p. 1292.
- Bevacqua, Alessandro, Des Moines, N. Mex. Combination plumb and level. No. 1,162,018; Nov. 30; Gaz. vol. 220; p. 1448.
- Bevan, Alexander, Providence, R. I. Block-signal apparatus. No. 1,146,993; July 20; Gaz. vol. 216; p. 747.
- Bevard, William A., Washington, D. C. Ash-sifter. No. 1,135,567; Apr. 13; Gaz. vol. 213; p. 569.
- Rever, Harold H., Portland, Oreg. Pipe-vise. No. 1,161,593; Nov. 23; Gaz. vol. 220; p. 1254.
- Beverley, Stafford, Winnipeg, Manitoba, Canada. Safety horseshoe-calk. No. 1,148,743; Aug. 3; Gaz. vol. 217; p. 94.
- Beverly, Alexander, Glacier, Wash. Fruit-picker. No. 1,130,057; Mar. 2; Gaz. vol. 212; p. 75.
- Beyer, Philip H., New York, N. Y. Hollow-tile wall. No. 1,158,362; Oct. 26; Gaz. vol. 219; p. 1180.
- Beyington, Thomas, assignor of one-half to T. J. Brownfield and C. S. Polk, Lincoln, Nebr. Convertible stock and dump car. No. 1,133,702; Mar. 30; Gaz. vol. 212; p. 1596.
- Bevis, Lonnie A., Roanoke, Ala. Fertilizer-distributor. No. 1,165,490; Dec. 28; Gaz. vol. 221; p. 1087.
- Bevis, Luther L., Franklin, Ga. Planter. No. 1,142,481; June 8; Gaz. vol. 215; p. 528.
- Bevis, Restal R., Birkenhead, England. Propeller. No. 1,133,222; Mar. 23; Gaz. vol. 212; p. 1316.
- Bey, Julius J., Dodge Center, Minn. Neck-yoke. No. 1,145,540; July 6; Gaz. vol. 216; p. 197.
- Beye, William G., Youngstown, Ohio. Cuspidor. No. 1,155,202; Sept. 28; Gaz. vol. 218; p. 1091.
- Beyer, Charles, Cedar Rapids, Iowa. Blow-stacker. No. 1,125,958; Jan. 19; Gaz. vol. 210; p. 805.
- Beyer, Herman E., Philadelphia, Pa. Counter-current condenser. No. 1,162,969; Dec. 7; Gaz. vol. 221; p. 82.
- Beyer, Theodor E., Sebastopol, Russia. Altitude instrument. No. 1,151,336; Aug. 24; Gaz. vol. 217; p. 1226.
- Beyerle, George W. (See Lake and Beyerle.)
- Beyl, Emil A., Minneapolis, Minn. Adjustable support for spouts and the like. No. 1,133,529; Mar. 30; Gaz. vol. 212; p. 1462.
- Beyland, Sidney A., North Ridgeville, assignor to The Garford Manufacturing Company, Elyria, Ohio. Horn for automobiles and motor-cycles. No. 1,158,620; Nov. 2; Gaz. vol. 220; p. 74.
- Bezner, Albert, Ravensburg, Germany. Sorting-machine. No. 1,126,359; Jan. 26; Gaz. vol. 210; p. 1231.
- Bezold, John E., Jersey City, N. J., assignor of one-half to F. Balzer, New York, N. Y. Attachment on player-pianos or like instruments. No. 1,161,807; Nov. 23; Gaz. vol. 220; p. 1327.
- Bhisey, Shanker A., London, England. Type-casting machine. No. 1,146,124; July 13; Gaz. vol. 216; p. 422.
- Biais, Auguste P., J. J. Cambou, Bordeaux, and C. M. J. Baillo, Paris, France. Aeroplane. No. 1,127,167; Feb. 2; Gaz. vol. 211; p. 177.
- Biais, Auguste P., J. J. Cambou, Bordeaux, and C. M. J. Baillo, Colombes, France. Aeroplane. No. 1,153,752; Sept. 14; Gaz. vol. 218; p. 529.
- Bianchi, Manlio, Galveston, Tex. Receptacle-lid lifter. No. 1,152,270; Aug. 31; Gaz. vol. 217; p. 1594.
- Blasiolli, Joseph J., San Antonio, Tex. Veterinary apparatus. No. 1,150,848; Aug. 24; Gaz. vol. 217; p. 1061.
- Blays, Benjamin H., assignor of one-half to W. S. Barker, Cumberland, Md. Carbureter. No. 1,166,173; Dec. 28; Gaz. vol. 221; p. 1328.
- Bibb, Dandridge H., New York, assignor to Continental Process Corporation, Briarcliff Village, N. Y. Cohering mass and forming the same. No. 1,158,363; Oct. 26; Gaz. vol. 219; p. 1180.
- Bibb, Dandridge H., New York, assignor to Continental Process Corporation, Briarcliff Village, N. Y. Making cohering masses. No. 1,158,364; Oct. 26; Gaz. vol. 219; p. 1181.
- Bibb, Dandridge H., New York, assignor to Continental Process Corporation, Briarcliff Village, N. Y. Briquets and other product composed of bonded divided material. No. 1,158,365; Oct. 26; Gaz. vol. 219; p. 1181.
- Bibb, Dandridge H., assignor to Continental Process Corporation, New York, N. Y. Making cohering masses. No. 1,158,366; Oct. 26; Gaz. vol. 219; p. 1181.

Alphabetical list of patentees—Continued.

- Bibb, Dandridge H., assignor to Continental Process Corporation, New York, N. Y. Waterproofed wood and producing the same. No. 1,165,355; Dec. 21; Gaz. vol. 221; p. 1001.
- Bibeault, Frank X., Waterbury, Conn. Heel. No. 1,159,738; Nov. 9; Gaz. vol. 220; p. 498.
- Bibolini, Aldo, Agordo, and P. Riboni, Naples, Italy. Electrostatic separator for sorting out the constituent parts of commodities according to their permeability. No. 1,154,907; Sept. 28; Gaz. vol. 218; p. 988.
- Bick, Charles W., London, England. Spring-suspension mechanism of motor-vehicles. No. 1,149,617; Aug. 10; Gaz. vol. 217; p. 507.
- Bick, Henry. (See Roth, Karl H., assignor.)
- Bickel, Henry F., Plainfield, N. J., assignor to New York Air Brake Company. Dust-separator. No. 1,124,199; Jan. 5; Gaz. vol. 210; p. 342.
- Bickel, Henry F., Plainfield, N. J., assignor to New York Air Brake Company. Air-brake apparatus. No. 1,124,200; Jan. 5; Gaz. vol. 210; p. 342.
- Bickel, Henry F., Plainfield, N. J., assignor to New York Air Brake Company. Air-brake apparatus. No. 1,124,201; Jan. 5; Gaz. vol. 210; p. 342.
- Bickel, Henry F., Plainfield, N. J., assignor to New York Air Brake Company. Air-brake apparatus. No. 1,124,202; Jan. 5; Gaz. vol. 210; p. 343.
- Bicker, Edgar B., assignor of one-half to E. Eikhoff, St. Louis, Mo. Cigar-can. No. 1,164,913; Dec. 21; Gaz. vol. 221; p. 847.
- Bickford, Ernest A., Worcester, Mass. Slipper-sole. No. 1,129,160; Feb. 23; Gaz. vol. 211; p. 998.
- Bickford, Ernest A., Worcester, Mass. Slipper-sole. No. 1,150,987; Aug. 24; Gaz. vol. 217; p. 1108.
- Bickford, Frank H. (See Klink, Wilgus, and Bickford.)
- Bickford, Oramel S., assignor to L. B. Weissbrod, Greenfield, Mass. Machine for setting articles such as buttons and the like. No. 1,151,998; Aug. 31; Gaz. vol. 217; p. 1500.
- Bickford, Thomas, Brewster, Mass. Clutch. No. 1,163,803; Dec. 14; Gaz. vol. 221; p. 421.
- Bickley, Everett H., assignor to Motograph Company of America, Detroit, Mich. Electric-display switching mechanism. No. 1,155,466; Oct. 5; Gaz. vol. 219; p. 49.
- Bickley, Walter S., Chester, Pa. Sand-grinding apparatus. No. 1,147,362; July 20; Gaz. vol. 216; p. 874.
- Bickmeier, Charles, and D. A. Liston, Bellaire, Ohio. Continuous-burning furnace for burning enamel ware. No. 1,140,105; May 18; Gaz. vol. 214; p. 914.
- Bicknell, Harry E., Niagara Falls, Ontario, Canada. Paper-clasp. No. 1,163,127; Dec. 7; Gaz. vol. 221; p. 137.
- Bicojon Manufacturing Company. (See Johnson, Bird, and Connell, assignors.)
- Biddle, John M. (See Marrow and Biddle.)
- Biddlecombe, Frank G. L., Luton, assignor to The Westminster Carburetor Company, Limited, Westminster, England. Apparatus for the generation of combustible gas or vapor from liquid fuel. No. 1,147,363; July 20; Gaz. vol. 216; p. 874.
- Bidelman, Howard L. (See Tyler, Aaron J., assignor.)
- Bidle, William S., assignor to The W. S. Bidle Company, Cleveland, Ohio. Tire-tool. No. 1,132,153; Mar. 16; Gaz. vol. 212; p. 878.
- Bidle, William S., and J. A. Costello, Cleveland, Ohio. Machine for making hot-pressed nut-blanks. No. 1,145,227; July 6; Gaz. vol. 216; p. 88.
- Bidle, William S., and J. A. Costello, Cleveland, Ohio. Machine for making nut-blanks. No. 1,147,364; July 20; Gaz. vol. 216; p. 875.
- Bidle, William S., and J. A. Costello, assignors to Cleveland Car Specialty Company, Cleveland, Ohio. Car roof construction. No. 1,124,276; Jan. 12; Gaz. vol. 210; p. 417.
- Bidwell, Clifford W., Kalamazoo, Mich. Fish bait or lure. No. 1,148,140; July 27; Gaz. vol. 216; p. 1178.
- Bidwell, Edgar P., London, England. Toilet-case. No. 1,126,360; Jan. 26; Gaz. vol. 210; p. 1232.
- Bidwell, Edward P., Monrovia, Cal. Wind-shield. No. 1,143,491; June 15; Gaz. vol. 215; p. 919.
- Bidwell, Irwin E. (See Henry, Eugene E., assignor.)
- Bidwell, Paul W., Holyoke, Mass. Paper-finishing machine. No. 1,155,203; Sept. 28; Gaz. vol. 218; p. 1092.
- Bielberger, David A., Moline, Ill., assignor to La Crosse Plow Co., La Crosse, Wis. Plow. No. 1,161,919; Nov. 30; Gaz. vol. 220; p. 1413.
- Biela, Valentine, Cestohowa, Tex. Traction-wheel. No. 1,125,800; Jan. 19; Gaz. vol. 210; p. 998.
- Biela, Valentine, Cestohowa, Tex. Gear-wheel. No. 1,142,661; June 8; Gaz. vol. 215; p. 589.
- Bielenberg, Alfred A., Elgin, Ill. Form or mold for concrete roof for a silo. No. 1,124,995; Jan. 12; Gaz. vol. 210; p. 674.
- Bienenzuel, Abraham, New York, N. Y. Powder-puff attachment for hand-bags, purses, and like articles. No. 1,150,737; Aug. 17; Gaz. vol. 217; p. 964.
- Bienstock, Anna E., Newark, N. J. Dress-shield protector. No. 1,137,452; Apr. 27; Gaz. vol. 213; p. 1318.
- Bierbaum, Christopher H., Buffalo, N. Y. Apparatus for producing castings. No. 1,138,443; May 4; Gaz. vol. 214; p. 254.
- Bierbaum, H. (See Behrend, Helene, assignor.)
- Bierbrauer, William L., and P. A. H. Sachse, assignors to Eugene Dietzgen Company, Factory, Chicago, Ill. Eyepiece adjustment for surveyors' telescopes. No. 1,130,468; Mar. 2; Gaz. vol. 212; p. 220.
- Bierce, Fred N., Cincinnati, Ohio. Creeper. No. 1,128,746; Feb. 16; Gaz. vol. 211; p. 816.
- Bierck, Harold A., Philadelphia, Pa. Combination-blower. No. 1,132,237; Mar. 16; Gaz. vol. 212; p. 909.
- Bierens, Gerard C. M., Towner, N. D. Portable mass set. No. 1,141,306; June 1; Gaz. vol. 215; p. 78.
- Bierig, Carl W. (See Legg and Bierig.)
- Bierman, Frank H. (See Strite and Bierman.)
- Bierman, Howard J., et al. (See Strite and Bierman, assignors.)
- Biersdorf, Mathew F., Los Angeles, Cal. Combined lock and butt-gage. No. 1,142,138; June 8; Gaz. vol. 215; p. 407.
- Biertumpfel, Albert H., Newark, N. J. Composition-cork compressor. No. 1,128,840; Feb. 16; Gaz. vol. 211; p. 850.
- Biesanz, Charles P., assignor to Biesanz Stone Company, Wabona, Minn. Gravel screening and washing machine. No. 1,141,169; June 1; Gaz. vol. 215; p. 28.
- Biesanz Stone Company. (See Biesanz, Charles P., assignor.)
- Bigelow Binder Company, The. (See Dingens, Carl L., assignor.)
- Bigelow, Clarence E. (See Ray, Albert D., assignor.)
- Bigford, John W., Toronto, Ontario, Canada. Garden-tool. No. 1,154,839; Sept. 28; Gaz. vol. 218; p. 966.
- Biggar, Leroy A., Oneida, N. Y. Bushing. No. 1,156,582; Oct. 12; Gaz. vol. 219; p. 463.
- Biggar, Leroy A. and R. H., Oneida, N. Y. Lubricating device. No. 1,135,873; Apr. 13; Gaz. vol. 213; p. 677.
- Biggar, Rutherford H. (See Biggar, Leroy A. and R. H.)
- Bigger, Lucy, Pittsburgh, Pa. Curtain and fastening means. No. 1,148,950; Aug. 3; Gaz. vol. 217; p. 164.
- Biggert, Florence C., Jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Table-actuating mechanism for rolling-mills. No. 1,161,441; Nov. 23; Gaz. vol. 220; p. 1202.
- Biggert, Florence C., Jr., Crafton, and L. Jones, Wilkesburg, assignors to United Engineering & Foundry Company, Pittsburgh, Pa. Screw-down mechanism for rolling-mills. No. 1,161,440; Nov. 23; Gaz. vol. 220; p. 1201.
- Biggs, Robert, administrator. (See Gross, Henry P.)
- Biggs, Thomas A., Rapid City, S. D. Freight-car-card holder. No. 1,141,925; June 8; Gaz. vol. 215; p. 332.
- Bigler, Robert M. (See Dick and Bigler.)
- Rigley, Edward J. (See Ross, James A., assignor.)
- Rigley, William J. (See Ward, John C., assignor.)
- Biglow, John H., Brooklyn, N. Y. Steam-boiler. No. 1,142,229; June 8; Gaz. vol. 215; p. 438.
- Bigourdan, Edouard. (See Beurrier and Bigourdan.)
- Bigshy Rotary Manufacturing Company, The. (See Sherbondy, William E., assignor.)
- Bihon, József, Daisytown, Pa. Letter-box. No. 1,130,136; Mar. 2; Gaz. vol. 212; p. 102.
- Bijsur, Joseph, New York, N. Y. Electric-lighting system for automobiles. No. 1,137,831; May 4; Gaz. vol. 214; p. 38.
- Bijsur, Joseph, assignor to The Safety Car Heating and Lighting Co., New York, N. Y. System of distribution. No. 1,124,277; Jan. 12; Gaz. vol. 210; p. 418.
- Bijsur, Joseph, assignor to The Safety Car Heating and Lighting Co., New York, N. Y. Electrical system of distribution. No. 1,131,316; Mar. 9; Gaz. vol. 212; p. 546.
- Bijsur, Joseph, assignor to The Safety Car Heating and Lighting Co., New York, N. Y. Regulating system. No. 1,140,106; May 18; Gaz. vol. 214; p. 914.
- Bilan, John A., Oklahoma, Okla. Railway-tie. No. 1,153,670; Sept. 14; Gaz. vol. 218; p. 500.
- Rilzer, Harry E. (See Clifford, Slaymaker, and Bilger.)
- Bilhorn, Peter P., Chicago, Ill. Folding organ. No. 1,152,475; Sept. 7; Gaz. vol. 218; p. 33.
- Billan, Charles F., Cedar Rapids, Iowa. Fountain-pen. No. 1,162,557; Nov. 30; Gaz. vol. 220; p. 1634.
- Billenstein, John E., Cleveland, Ohio. Stair-carpet fastener. No. 1,126,361; Jan. 26; Gaz. vol. 210; p. 1232.
- Billings, Arthur S., North Vancouver, British Columbia, Canada. Wood-trimmer. No. 1,137,453; Apr. 27; Gaz. vol. 213; p. 1318.
- Billings-Chapin Company, The. (See Roberts, Daniel W., assignor.)
- Billings, Frank. (See Greenleaf, Robert P., assignor.)
- Billings, Frederick C., Milwaukee, Wis. Player-piano casing. No. 1,129,443; Feb. 23; Gaz. vol. 211; p. 1097.
- Billingsley, Calvin H., French Lick, Ind. Feed-water heater. No. 1,143,605; June 22; Gaz. vol. 215; p. 983.
- Billingsley, Percy L., Ocala, Fla. Table. No. 1,148,070; July 27; Gaz. vol. 216; p. 1151.
- Billington, John E. (See Pearce and Billington.)
- Billington, John E., Broadheath, assignor to Linotype and Machinery Limited, London, England. Escapement mechanism of typographical composing-machines. No. 1,163,204; Dec. 7; Gaz. vol. 221; p. 164.
- Billman, Obed C., Cleveland, Ohio. Car coupling. No. 1,151,559; Aug. 31; Gaz. vol. 217; p. 1349.
- Bills, Daniel W. (See Barton, William B., assignor.)

Alphabetical list of patentees—Continued.

- Billstein, Aaron M., Riderwood, assignor to The Lord Baltimore Press, Baltimore, Md. Display-box. No. 1,149,891; Aug. 10; Gaz. vol. 217; p. 606.
- Billwiller, Johann, Goldach, near Rohrschach, Switzerland. Artificial stone. No. 1,129,060; Feb. 23; Gaz. vol. 211; p. 963.
- Biltgen, Albert F., Arrowrock, Idaho. Folding car-steps. No. 1,136,581; Apr. 20; Gaz. vol. 213; p. 968.
- Bilyeu, Josephine. (See Bilyeu, Thomas, assignor.)
- Bilyeu, Thomas, assignor to J. Bilyeu, Hillsboro, Oreg. Automatic safety-check-writing machine. No. 1,161,808; Nov. 23; Gaz. vol. 220; p. 1327.
- Bilyeu, Thomas, and W. S. Overlin, Portland, Oreg., assignors to International Money Machine Company, Terre Haute, Ind. Record mechanism for coin-delivery machines. No. 1,165,491; Dec. 28; Gaz. vol. 221; p. 1088.
- Blackley, William C., Jasper, Ind., assignor of one-third to E. J. Kempf, Baltimore, Md., and one-third to L. T. Koerner, Jasper, Ind. Shipping-case. No. 1,129,061; Feb. 23; Gaz. vol. 211; p. 963.
- Binder, Frank A., New York, assignor to Ansco Company, Binghamton, N. Y. Photographic-roll-film-developing apparatus. No. 1,159,565; Nov. 9; Gaz. vol. 220; p. 435.
- Binder, Gottlob. (See Hagen and Binder.)
- Binder, Gottlob. (See Kelso and Binder.)
- Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Co., Cincinnati, Ohio. Ironing-machine. No. 1,129,161; Feb. 23; Gaz. vol. 211; p. 998.
- Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Drying apparatus. No. 1,136,645; Apr. 20; Gaz. vol. 213; p. 990.
- Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Reversing mechanism. No. 1,160,687; Nov. 16; Gaz. vol. 220; p. 890.
- Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Safety device for centrifugal extractors. No. 1,162,847; Dec. 7; Gaz. vol. 221; p. 41.
- Binder, Leo J., Spokane, Wash. Grate. No. 1,154,477; Sept. 21; Gaz. vol. 218; p. 814.
- Bladhammer, Charles A., Chicago, Ill. Sign. No. 1,163,638; Dec. 14; Gaz. vol. 221; p. 360.
- Binetti, Giovanni B., Vigevano, Italy. Production of boots and shoes. No. 1,138,444; May 4; Gaz. vol. 214; p. 255.
- Binford, Edgar P., Chicago, Ill. Dental grinding-wheel and mandrel therefor. No. 1,162,970; Dec. 7; Gaz. vol. 221; p. 82.
- Bing, Julius, Eisenach, Germany. Demagnetization of tools working magnetically-mounted work-pieces. No. 1,136,646; Apr. 20; Gaz. vol. 213; p. 990.
- Bingaman, James K. P., Cincinnati, Ohio. Paper carton. No. 1,150,488; Aug. 17; Gaz. vol. 217; p. 878.
- Bingaman, James K. P., Cincinnati, Ohio. Paper carton. No. 1,150,489; Aug. 17; Gaz. vol. 217; p. 879.
- Bingaman, James K. P., Cincinnati, Ohio. Knockdown box. No. 1,150,490; Aug. 17; Gaz. vol. 217; p. 879.
- Bingaman, James K. P., Cincinnati, Ohio. Folding fiber-board carton. No. 1,150,491; Aug. 17; Gaz. vol. 217; p. 879.
- Bingaman, Wallace O., Flora, Ind. Gas-engine. No. 1,151,155; Aug. 24; Gaz. vol. 217; p. 1166.
- Bingaman, Wallace O., Flora, Ind. Carbureter. No. 1,151,156; Aug. 24; Gaz. vol. 217; p. 1166.
- Binger, Herman H., Lewistown, Mo. Silo-mold. No. 1,160,131; Nov. 16; Gaz. vol. 220; p. 691.
- Bingham, Alvah L., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-machine. No. 1,125,895; Jan. 19; Gaz. vol. 210; p. 1029.
- Bingham, Daniel, *et al.* (See Jobke, August F., assignor.)
- Bingham, George W., New York, N. Y. Kinetoscope. No. 1,123,664; Jan. 5; Gaz. vol. 210; p. 160.
- Bingham, George W., New York, N. Y. Moving-picture machine. No. 1,123,665; Jan. 5; Gaz. vol. 210; p. 160.
- Bingham, George W., Brooklyn, N. Y. Shutter for moving-picture cameras. No. 1,129,327; Feb. 23; Gaz. vol. 211; p. 1056.
- Bingham, George W., Brooklyn, N. Y. Moving-picture machine. No. 1,129,328; Feb. 23; Gaz. vol. 211; p. 1056.
- Bingham, George W., New Britain Conn. Moving-picture machine. No. 1,156,457; Oct. 12; Gaz. vol. 219; p. 419.
- Bingham, George W., Brooklyn, N. Y., assignor to The Bingham Manufacturing Company. Moving-picture machine. No. 1,134,664; Apr. 6; Gaz. vol. 213; p. 212.
- Bingham Manufacturing Company, The. (See Bingham, George W., assignor.)
- Bingley, John W., Watertown, N. Y., assignor to New York Air Brake Company. Safety-valve for air-brake apparatus. No. 1,124,203; Jan. 5; Gaz. vol. 210; p. 343.
- Binkley, John T., Chicago, Ill. Locking mechanism for boxes, cases, or trunks. No. 1,132,824; Mar. 23; Gaz. vol. 212; p. 1174.
- Binkley, John T., Chicago, Ill. Locking mechanism. No. 1,145,541; July 6; Gaz. vol. 216; p. 198.
- Binkley, William E., Lanark, Ill. Manure-spreader. No. 1,123,834; Jan. 5; Gaz. vol. 210; p. 217.
- Binning, Wood, Grand River, Iowa. Mold. No. 1,133,223; Mar. 23; Gaz. vol. 212; p. 1316.
- Binns, Arthur E., Norwich, Conn. Shower-pipe for paper-making machines. No. 1,163,734; Dec. 14; Gaz. vol. 221; p. 395.
- Binns, James R., assignor of one-half to E. D. Myers, Canton, Ohio. Explosive-engine starter. No. 1,148,071; July 27; Gaz. vol. 216; p. 1151.
- Binz, Albert W., Philadelphia, Pa. Pile fabric. No. 1,137,833; May 4; Gaz. vol. 214; p. 39.
- Binz, Albert W., assignor to Schofield, Mason & Co., Philadelphia, Pa. Loom for weaving double pile fabrics. No. 1,137,832; May 4; Gaz. vol. 214; p. 38.
- Binz, Albert W., assignor to Schofield, Mason & Co., Philadelphia, Pa. Pile fabric. No. 1,143,804; June 22; Gaz. vol. 215; p. 1050.
- Biograph Company. (See Casler, Herman, assignor.)
- Bippart, Achill, Newark, N. J. Liuk-button. No. 1,148,821; Aug. 3; Gaz. vol. 217; p. 121.
- Biquard, Robert, assignor to himself, H. Cheron, and H. Dominici, Paris, France. Apparatus applicable for illuminating cavities or surfaces. No. 1,143,682; June 22; Gaz. vol. 215; p. 1010.
- Birath, Theodor, assignor to Manhattan Electrical Supply Company, Jersey City, N. J. Lamp-carrier. No. 1,137,568; Apr. 27; Gaz. vol. 213; p. 1357.
- Birch, Charles H., Chicago, Ill. Fluid motor, pump, and the like. No. 1,158,621; Nov. 2; Gaz. vol. 220; p. 75.
- Birch, Clarence E., Lawrence, Kans. Educational chart. No. 1,139,329; May 11; Gaz. vol. 214; p. 601.
- Birch, David, New York, N. Y. Non-refillable bottle. No. 1,142,230; June 8; Gaz. vol. 215; p. 439.
- Birch-Field, Charles A., New York, N. Y. Making reel-pictures in motion photography. No. 1,164,252; Dec. 14; Gaz. vol. 221; p. 574.
- Birch, Gustaf B. (See Cameron and Birch.)
- Birch, John H., Gatlin, Ky. Incandescent electric lamp. No. 1,150,738; Aug. 17; Gaz. vol. 217; p. 964.
- Birch, Leslie E. (See Ford and Birch.)
- Birch, William T., Chicago, Ill. Pump-valve. No. 1,140,869; May 25; Gaz. vol. 214; p. 1214.
- Birchall, Harry, assignor of one-half to F. K. Shepherd, New York, N. Y. Paint and varnish remover. No. 1,165,148; Dec. 21; Gaz. vol. 221; p. 931.
- Birchall, William, Whitworth, near Rochdale, England. Vacuum stripping apparatus. No. 1,160,825; Nov. 16; Gaz. vol. 220; p. 937.
- Bird, Arthur L. (See Johnson, Bird, and Connell.)
- Bird, Charles S. (See Paige, Chester A., assignor.)
- Bird, Charles S. (See Wyman, George R., assignor.)
- Bird, Charles S., East Walpole, Mass. Floor-covering. No. 1,131,317; Mar. 9; Gaz. vol. 212; p. 547.
- Bird, Charles S., East Walpole, Mass. Pulp-reclaimer. No. 1,151,999; Aug. 31; Gaz. vol. 217; p. 1500.
- Bird, Charles S., Walpole township, Norfolk county, Mass. Shingle. No. 1,153,418; Sept. 14; Gaz. vol. 218; p. 412.
- Bird, Charles S., Walpole, Mass. Paper tube and making the same. No. 1,158,024; Oct. 26; Gaz. vol. 219; p. 1062.
- Bird, Charles S., and G. R. Wyman, East Walpole, Mass.; said Wyman assignor to said Bird. Floor-covering. No. 1,131,595; Mar. 9; Gaz. vol. 212; p. 641.
- Bird, J. Philip. (See Hilbert, John N. J., assignor.)
- Bird, James P., New York, N. Y. Box-making machine. No. 1,131,199; Mar. 9; Gaz. vol. 212; p. 505.
- Bird, John, Toronto, Ontario, Canada. Horseshoe. No. 1,148,886; Aug. 3; Gaz. vol. 217; p. 142.
- Bird, Reginald W., Brookline, Mass., assignor to Flintkote Manufacturing Company, Rutherford, N. J. Roofing-strip. No. 1,130,368; Mar. 2; Gaz. vol. 212; p. 183.
- Bird, Thos. E., *et al.* (See Hoffman, Robert O., assignor.)
- Birdsall, James E., Philadelphia, Pa., assignor, by mesne assignments, to Advertising Device Company. Mechanical shoe-polishing machine. No. 1,136,647; Apr. 20; Gaz. vol. 213; p. 990.
- Birdsall, Wilbert S., Brooklyn, N. Y. Triplicating sales-book. No. 1,147,922; July 27; Gaz. vol. 216; p. 1098.
- Birdsey, Somers Company. (See Birse, William, assignor.)
- Birdsey, Somers Company. (See McDermott, Francis J., assignor.)
- Birdsey-Somers Company. (See Somers, Thomas F., assignor.)
- Birdsey, John W., Gorham, N. Y. Grab for pump-rods and pipes. No. 1,148,495; Aug. 3; Gaz. vol. 217; p. 4.
- Birdsong, John L. (See Studebaker, Enoch H., assignor.)
- Birdsong, John L., Kenbridge, assignor of one-half to E. Studebaker, Waverly, Va. Lock-shield. No. 1,136,582; Apr. 20; Gaz. vol. 213; p. 969.
- Birkbeck, William, and W. H. Ashman, Freeland, Pa. Valve. No. 1,138,531; May 4; Gaz. vol. 214; p. 283.
- Birkeland, Kristian, and O. Devik, Christiania, Norway. Hardening oils. No. 1,125,259; Jan. 19; Gaz. vol. 210; p. 805.
- Birkenbeuel, Edward B., assignor to Coin Machine Manufacturing Company, Portland, Oreg. Coin-delivering machine. No. 1,139,838; May 18; Gaz. vol. 214; p. 818.
- Birkenmaier, Theodore, St. Louis, Mo. Stencil-cutting machine. No. 1,149,151; Aug. 3; Gaz. vol. 217; p. 233.
- Birkholz Company, The. (See Birkholz, Ernest, assignor.)

Alphabetical list of patentees—Continued.

- Birkholz, Ernest, assignor to The Birkholz Company, Chicago, Ill. Gas-burner. No. 1,165,835; Dec. 28; Gaz. vol. 221; p. 1207.
- Birkholz, William A., Hebron, Nebr. Attachment for manure-spreaders. No. 1,160,688; Nov. 16; Gaz. vol. 220; p. 890.
- Birkinshaw, William G. K., Wolverhampton, and C. A. Brown, Syston, England. Construction of promenades and playing-courts. No. 1,140,241; May 18; Gaz. vol. 214; p. 960.
- Birky, Levi E., Rantoul, Ill. Gate. No. 1,123,835; Jan. 5; Gaz. vol. 210; p. 217.
- Birmeley, William C., Paton, Iowa. Self-lighter for cigars. No. 1,153,419; Sept. 14; Gaz. vol. 218; p. 413.
- Birmingham Iron Foundry. (See Gordon, William A., assignor.)
- Birnbaum, Joseph W. (See Ladew, Charles H., Sr., assignor.)
- Birney, George R., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Surface-heater. No. 1,135,493; Apr. 13; Gaz. vol. 213; p. 542.
- Birstock, William W., assignor to Hensch & Dromgold Company, York, Pa. Fertilizer-distributor. No. 1,155,204; Sept. 28; Gaz. vol. 218; p. 1092.
- Birse, William, assignor to Birdsey, Somers Company, Bridgeport, Conn. Extensible corset clasp or stay. No. 1,156,205; Oct. 12; Gaz. vol. 219; p. 330.
- Birshfield, Jules A., La Crosse, Wis. Vending-machine. No. 1,149,618; Aug. 10; Gaz. vol. 217; p. 508.
- Bisbee, Charles A., Chicago, Ill. Device for forming and retaining plaits. No. 1,166,174; Dec. 28; Gaz. vol. 221; p. 1329.
- Bisbee, Robert A., Central Park, N. Y. Windmill-brake. No. 1,152,271; Aug. 31; Gaz. vol. 217; p. 1594.
- Bisbee Straight Motion Engine Co. (See Lane, Forrest D., assignor.)
- Bisch, Floyd, Philadelphia, Pa. Portable electric motor. No. 1,142,482; June 8; Gaz. vol. 215; p. 528.
- Bischof, Bernhard, Nuremberg, Germany. Internal-combustion turbine. No. 1,129,544; Feb. 23; Gaz. vol. 211; p. 1133.
- Bischoff, Karl, New York, N. Y. Horseshoe. No. 1,144,344; June 29; Gaz. vol. 215; p. 1270.
- Bisek, Frank, Alexandria, Minn. Ice-cutting machine. No. 1,125,941; Jan. 26; Gaz. vol. 210; p. 1078.
- Bishoff, Louis C., Pittsburgh, Pa. Music-leaf turner. No. 1,164,570; Dec. 14; Gaz. vol. 221; p. 686.
- Bishop, Alfred J., Perth, Western Australia, Australia. Appliance for picking wheat or grain. No. 1,136,763; Apr. 20; Gaz. vol. 213; p. 1033.
- Bishop-Babcock-Becker Company, The. (See Sebring, James A., assignor.)
- Bishop-Babcock-Becker Company, The. (See Weatherhead, Edward H., assignor.)
- Bishop, Clifford M., New York, N. Y. Mechanism for testing and for instruction in the operation of automobiles. No. 1,161,920; Nov. 30; Gaz. vol. 220; p. 1413.
- Bishop, Frederic L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Drawing hollow glass articles. No. 1,142,139; June 8; Gaz. vol. 215; p. 407.
- Bishop, Harry W. (See Schaar, Adolph H. F., assignor.)
- Bishop, Harry W., Oakland, Cal. Proscenium structure. No. 1,136,860; Apr. 20; Gaz. vol. 213; p. 1066.
- Bishop, Howard B., assignor to General Chemical Company, New York, N. Y. Manufacture of hydrofluoric acid. No. 1,150,415; Aug. 17; Gaz. vol. 217; p. 852.
- Bishop, James, Carthage, N. Y. Method of and apparatus for cleaning pulp-screens. No. 1,147,295; July 20; Gaz. vol. 216; p. 850.
- Bishop, James A., Mascoutah, Ill. Continuous-process coke-oven. No. 1,166,175; Dec. 28; Gaz. vol. 221; p. 1329.
- Bishop, James E., Fitzgerald, Ga. Circuit-closer. No. 1,161,594; Nov. 23; Gaz. vol. 220; p. 1254.
- Bishop, John, and E. P. Hughes, Detroit, Mich. Weighing-machine. No. 1,131,108; Mar. 9; Gaz. vol. 212; p. 474.
- Bishop, John K., Roswell, N. Mex. Replacing broken dental facings. No. 1,147,597; July 20; Gaz. vol. 216; p. 958.
- Bishop, Joseph M. (See Boyce, Arthur R., assignor.)
- Bishop, Louis N., Bellevue, Ky. Marking-tag. No. 1,160,035; Nov. 9; Gaz. vol. 220; p. 603.
- Bishop, Michael, Chicago, Ill. Guard for rollers. No. 1,146,547; July 13; Gaz. vol. 216; p. 572.
- Bishop, Norman D., Los Angeles, Cal. Lighting-fixture apparatus. No. 1,138,836; May 11; Gaz. vol. 214; p. 431.
- Bishop, Raymond T., New York, N. Y. Extensible window-screen. No. 1,130,565; Mar. 2; Gaz. vol. 212; p. 254.
- Bishop, Warren A., Lowell, Mass. Screen. No. 1,152,390; Sept. 7; Gaz. vol. 218; p. 3.
- Bishop, William K. (See Woodruff and Bishop.)
- Bishopric, George F., Ottawa, Ontario, Canada. Machine for manufacturing outer covering material for packages. No. 1,129,949; Mar. 2; Gaz. vol. 212; p. 40.
- Biss, Benni, and L. Kohn, New York, N. Y. Curling-iron. No. 1,147,296; July 20; Gaz. vol. 216; p. 850.
- Bissell, Arthur, *et al.* (See Jameson, Charles V., assignor.)
- Bissell, Carl H. (See Clary and Bissell.)
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Conduit-outlet fitting. No. 1,126,362; Jan. 26; Gaz. vol. 210; p. 1232.
- Bissell, Carl H., Syracuse, and D. C. Gidley, Albany, assignors to Crouse-Hinds Company, Syracuse, N. Y. Cord-support. No. 1,129,782; Feb. 23; Gaz. vol. 211; p. 1212.
- Bissell, Carl H., and F. Smith, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electric-conduit fitting. No. 1,156,583; Oct. 12; Gaz. vol. 219; p. 463.
- Bissell, Joseph E., Pittsburgh, Pa. Internal-combustion engine. No. 1,134,097; Apr. 6; Gaz. vol. 213; p. 6.
- Bissell, Joseph E., Pittsburgh, Pa. Transmission mechanism. No. 1,141,228; June 1; Gaz. vol. 215; p. 49.
- Bissell, Kathleen S., Ashton, Iowa. Stove-leg. No. 1,163,312; Dec. 7; Gaz. vol. 221; p. 202.
- Bissett, Alfred R., Vancouver, British Columbia, Canada. Wreck-lifting device. No. 1,129,376; Feb. 23; Gaz. vol. 211; p. 1073.
- Bitner, Harry, Freeport, Ill. Latch. No. 1,124,278; Jan. 12; Gaz. vol. 210; p. 418.
- Bittell, Henry, San Francisco, Cal. Convertible chair and bed. No. 1,154,685; Sept. 28; Gaz. vol. 218; p. 915.
- Bittermann, George P. (See Schiek and Bittermann.)
- Bitting, Hervey S., assignor to J. F. Bruedery, Lancaster, Pa. Shade and curtain-pole hanger. No. 1,141,757; June 1; Gaz. vol. 215; p. 236.
- Bittlestone, John J., and H. T. Johnson, Sunderland, England. Cargo vessel. No. 1,148,822; Aug. 3; Gaz. vol. 217; p. 121.
- Bittner, Theodore O., Brooklyn, N. Y. Card-support. No. 1,135,874; Apr. 13; Gaz. vol. 213; p. 677.
- Bitzer, Charles, Jr., *et al.* (See Stanley, Richard E., assignor.)
- Bivins, Robert A., Danville, Va. Poultry-coop. No. 1,162,971; Dec. 7; Gaz. vol. 221; p. 83.
- Bixby, Allan S., Indianapolis, Ind., assignor to The National Malleable Castings Company, Cleveland, Ohio. Chain-link. No. 1,152,476; Sept. 7; Gaz. vol. 218; p. 34.
- Bixby, Allan S., Indianapolis, Ind., assignor to The National Malleable Castings Company, Cleveland, Ohio. Chain-link. No. 1,152,477; Sept. 7; Gaz. vol. 218; p. 34.
- Bixby, Allan S., assignor to The B. & B. Mfg. Co., Indianapolis, Ind. Power molding-machine. No. 1,158,398; Oct. 26; Gaz. vol. 219; p. 1194.
- Bixby Company. (See Bixby, Joseph G., assignor.)
- Bixby, Joseph G., assignor to Bixby Company, Decatur, Ill. Burial-shoe. No. 1,165,060; Dec. 21; Gaz. vol. 221; p. 898.
- Bixler, Eva H., North Manchester, Ind. Indicator. No. 1,125,447; Jan. 19; Gaz. vol. 210; p. 872.
- Bizon, John, Bretz, W. Va. Combined stretcher and body-carrier. No. 1,131,987; Mar. 16; Gaz. vol. 212; p. 818.
- Bjerregaard, Rasmus, Copenhagen, Denmark. Film. No. 1,130,702; Mar. 9; Gaz. vol. 212; p. 335.
- Björkdahl, Carl H., Chicago, Ill. Hat-pin. No. 1,161,442; Nov. 23; Gaz. vol. 220; p. 1202.
- Bjorklund, Robert, Worcester, Mass. Carbureter. No. 1,161,374; Nov. 23; Gaz. vol. 220; p. 1179.
- Bjorn, John, assignor to The Thomas B. Jeffrey Company, Kenosha, Wis. Steering-wheel. No. 1,140,943; May 25; Gaz. vol. 214; p. 1241.
- Bjorndahl, Tobias N., Watrous, Saskatchewan, Canada. Dump-rack. No. 1,123,666; Jan. 5; Gaz. vol. 210; p. 160.
- Bjor, Arthur, Kulm, N. D. Compound internal-combustion engine. No. 1,146,840; July 20; Gaz. vol. 216; p. 692.
- Bjur, Oscar H., Kennewick, Wash. Weed-cutting machine. No. 1,154,364; Sept. 21; Gaz. vol. 218; p. 776.
- Blabon, Edwin L., Bryn Mawr, assignor to Geo. W. Blabon Company, Nicetown, Pa. Linoleum. No. 1,132,647; Mar. 23; Gaz. vol. 212; p. 1107.
- Black, Albert L., Whitman, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for preparing welting. No. 1,158,433; Nov. 2; Gaz. vol. 220; p. 7.
- Black, Alexander L. (See Von Phul, Black, and Lockett.)
- Black, Carl A., and W. H. Teare, Cleveland, assignors of one-third to said Black and two-thirds to J. R. Cowell, Toledo, Ohio. Fertilizer and producing same. No. 1,140,437; May 25; Gaz. vol. 214; p. 1063.
- Black, Charles F. (See Clark and Black.)
- Black, Charles F., Waukegan, Ill. Starch-shovel. No. 1,131,518; Mar. 9; Gaz. vol. 212; p. 547.
- Black-Clawson Company, The. (See Kutter, Herman L., assignor.)
- Black, Daniel G., Detroit, Mich. Flange-oiler. No. 1,152,593; Sept. 7; Gaz. vol. 218; p. 79.
- Black, David R. (See Larson, Ole G., assignor.)
- Black, Edward A., Phoenix, British Columbia, Canada. Variable-speed gearing for motor-cycles. No. 1,139,330; May 11; Gaz. vol. 214; p. 601.
- Black, Fred E., St. Louis, Mo. Internal-combustion engine. No. 1,144,582; June 29; Gaz. vol. 215; p. 1349.
- Black, Henry F., Sioux City, Iowa. Flushing-cuspidor. No. 1,130,249; Mar. 2; Gaz. vol. 212; p. 141.
- Black, Homer E., *et al.* (See Wills, William, assignor.)
- Black, Hugh M., Brighton, England. Advertising-sign. No. 1,152,780; Sept. 7; Gaz. vol. 218; p. 146.

Alphabetical list of patentees—Continued.

- Black, James F., assignor of one-half to H. B. Richmond, Prophetstown, Ill. Shears. No. 1,134,814; Apr. 6; Gaz. vol. 213; p. 265.
- Black, James H. (See Whale and Black.)
- Black, Jay E., Elwood, Ind. Pot-furnace. No. 1,147,699; July 27; Gaz. vol. 216; p. 1020.
- Black, John A., Springfield, Ohio. Vehicle-tire. No. 1,148,072; July 27; Gaz. vol. 216; p. 1152.
- Black, John C., Point Richmond, Cal., assignor to Standard Oil Company. Refining petroleum. No. 1,152,478; Sept. 7; Gaz. vol. 218; p. 35.
- Black, John C., Oakland, assignor to Standard Oil Company, Richmond, Cal. Refining petroleum. No. 1,164,162; Dec. 14; Gaz. vol. 221; p. 544.
- Black, Lee J., Beaumont, Tex. Rotary drilling apparatus. No. 1,144,098; June 22; Gaz. vol. 215; p. 1154.
- Black, Lee J., Beaumont, Tex. Hoisting-hook. No. 1,144,099; June 22; Gaz. vol. 215; p. 1155.
- Black, Lee J., Beaumont, Tex. Wrench. No. 1,157,362; Oct. 19; Gaz. vol. 219; p. 768.
- Black, Mathew, New York, N. Y. Window-cleaning device. No. 1,130,703; Mar. 9; Gaz. vol. 212; p. 336.
- Black, McClellan. (See Dibel and Black.)
- Black, Newton. (See Taylor, Charles A., assignor.)
- Black, Walter L., Allen, Neb. Vehicle-spindle. No. 1,140,792; May 25; Gaz. vol. 214; p. 1186.
- Black, William N., Wilkesburg, Pa. Portable hand-truck. No. 1,131,656; Mar. 16; Gaz. vol. 212; p. 697.
- Blackall, Robert H., Pittsburgh, Pa., assignor to Ratchet Brake Company, New York, N. Y. Ratchet-brake mechanism. No. 1,136,090; Apr. 20; Gaz. vol. 213; p. 792.
- Blackaller, Miguel, San Antonio, Tex. Universal lever. No. 1,164,455; Dec. 14; Gaz. vol. 221; p. 648.
- Blackard, Lucian, Hatt, Mo. Broom. No. 1,157,074; Oct. 19; Gaz. vol. 219; p. 666.
- Blackburn, C. B. (See Mulligan, James M., assignor.)
- Blackburn, Charles D., Lime, Colo. Electric-lamp socket. No. 1,157,075; Oct. 19; Gaz. vol. 219; p. 666.
- Blackburn, Charles E., Brooklyn, N. Y. Siphonic flushing apparatus. No. 1,157,667; Oct. 26; Gaz. vol. 219; p. 937.
- Blackburn, Charles W., and L. C. Shattuck, Bisbee, Ariz. Collar-button. No. 1,147,673; July 20; Gaz. vol. 216; p. 985.
- Blackburn, Fletcher J. (See Goheen, Edward E., assignor.)
- Blackburn, Guy W., Elgin, Ill. Tube-forming machine. No. 1,126,691; Feb. 2; Gaz. vol. 211; p. 8.
- Blackburn, Jasper, Webster Groves, Mo. Cable-hanger. No. 1,144,318; June 22; Gaz. vol. 215; p. 1232.
- Blackburn, Jasper, Kirkwood, Mo. Train-pipe coupling. No. 1,158,970; Nov. 2; Gaz. vol. 220; p. 194.
- Blackburn, Rendo J., Bulls Gap, Tenn. Car-door fastener. No. 1,164,456; Dec. 14; Gaz. vol. 221; p. 648.
- Blackert, Charles H. (See Cluett and Blackert.)
- Blackman, Charles E., et al. (See Hammond, John W. and P. M., assignors.)
- Blackman, Malcolm L., Ozark, Ala. Car-coupling. No. 1,157,496; Oct. 19; Gaz. vol. 219; p. 815.
- Blackman, Walter W., Birmingham, Ala. Toy motion-picture machine. No. 1,131,033; Mar. 9; Gaz. vol. 212; p. 449.
- Blackmore, Percy R., Ilford, England. Mount for printers' and like blocks. No. 1,164,329; Dec. 14; Gaz. vol. 221; p. 603.
- Blackmore, William, assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,144,024; June 22; Gaz. vol. 215; p. 1128.
- Blacksher, Erasmus M. (See Hammons and Blacksher.)
- Blackstone Manufacturing Company, The. (See More, Glenn, assignor.)
- Blackstone Manufacturing Company, The. (See Moynihan, John P., assignor.)
- Blackwell, Adelaide M., Seattle, Wash. Buffet-server. No. 1,151,923; Aug. 31; Gaz. vol. 217; p. 1474.
- Blackwell, Elmer C., Salem, Mo. Propeller. No. 1,159,824; Nov. 9; Gaz. vol. 220; p. 530.
- Blackwood, Alexander F. S., Detroit, Mich., assignor to Detroit Air Pump Company. Pump. No. 1,150,832; Aug. 17; Gaz. vol. 217; p. 997.
- Blackwood, Arthur J., Carboro, N. C. Adjustable roller-holder. No. 1,130,880; Mar. 9; Gaz. vol. 212; p. 396.
- Blagburn, Charles, San Francisco, Cal. Preserving and transporting fruit and other edibles. No. 1,128,936; Feb. 16; Gaz. vol. 211; p. 885.
- Blahnik, Fred. (See Kinsel, John, assignor.)
- Blaho, Rudolf. (See Kovacs and Blaho.)
- Blach, Alfred O., Chicago, Ill. Case-hardening compound. No. 1,138,073; May 4; Gaz. vol. 214; p. 124.
- Blain, George A., Long Lake, Minn. Pack-carrier. No. 1,156,878; Oct. 19; Gaz. vol. 219; p. 595.
- Blain, Wilson R., Albany, Oreg. Undergarment. No. 1,147,072; July 20; Gaz. vol. 216; p. 774.
- Blain, Wilson R., Albany, Oreg. Fixture support and bracket. No. 1,148,436; July 27; Gaz. vol. 216; p. 1280.
- Blaine, Joseph R., Taunton, Mass. Indicating device. No. 1,155,788; Oct. 5; Gaz. vol. 219; p. 162.
- Blair, Allen F., Seattle, Wash. Coal-washer. No. 1,158,777; Nov. 2; Gaz. vol. 220; p. 129.
- Blair, Charles E., Somerville, Mass., assignor to American Warp-Drawing Machine Company. Warp-drawing-in machine. No. 1,153,855; Sept. 14; Gaz. vol. 218; p. 567.
- Blair, Charles E., Boston, Mass., assignor to American Warp-Drawing Machine Company. Warp-drawing-in machine. No. 1,153,856; Sept. 14; Gaz. vol. 218; p. 567.
- Blair, Charles E., Dorchester, Mass., assignor to American Warp-Drawing Machine Company. Detached heddle or the like. No. 1,153,857; Sept. 14; Gaz. vol. 218; p. 568.
- Blair, Charles E., Dorchester, Mass., assignor to American Warp-Drawing Machine Company. Detached heddle or the like. No. 1,153,858; Sept. 14; Gaz. vol. 218; p. 568.
- Blair, David E. (See Dyer and Blair.)
- Blair, F. W., et al. (See Sawyer, Harry B., assignor.)
- Blair, Frank P., assignor to E. A. Strause, Los Angeles, Cal. Bubble-blower. No. 1,124,204; Jan. 5; Gaz. vol. 210; p. 343.
- Blair, Fred C., Kalispell, Mont. Agricultural machine. No. 1,164,163; Dec. 14; Gaz. vol. 221; p. 545.
- Blair, George C., Kansas City, Mo. Silo. No. 1,128,576; Feb. 16; Gaz. vol. 211; p. 758.
- Blair, Hosea, assignor of one-half to W. R. Grogan, San Francisco, Cal. Post-card-printing machine. No. 1,131,657; Mar. 16; Gaz. vol. 212; p. 697.
- Blair, John C., and R. L. Freudenberger, Charleston, W. Va. Sash-fastener. No. 1,144,289; June 22; Gaz. vol. 215; p. 1222.
- Blair, Robert S., New Rochelle, N. Y. Recording apparatus. No. 1,130,469; Mar. 2; Gaz. vol. 212; p. 220.
- Blair, Theodore H. (See McElfitt and Blair.)
- Blair, Thomas H., Northboro, Mass. Adjustable bearing for power-transmission mechanism. No. 1,153,285; Sept. 14; Gaz. vol. 218; p. 362.
- Blair, Thomas H., assignor to Whiting Manufacturing Company, Northboro, Mass. Kinetograph. No. 1,153,887; Sept. 21; Gaz. vol. 218; p. 612.
- Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Awt-feeding mechanism. No. 1,143,683; June 22; Gaz. vol. 215; p. 1010.
- Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Bobbin-retaining mechanism. No. 1,152,140; Aug. 31; Gaz. vol. 217; p. 1549.
- Blajeske, John. (See Falk and Blinkey, assignors.)
- Blake, Alfred E. (See Kolman, Hoffman, and Blake.)
- Blake Car Step Works. (See Blake, Fred D., assignor.)
- Blake, Charles T., St. Petersburg, Fla. Distributor for electric igniters. No. 1,147,598; July 20; Gaz. vol. 216; p. 958.
- Blake, Clinton F., assignor to W. F. Rogers, Portland, Oreg. Diffusing apparatus. No. 1,144,525; June 29; Gaz. vol. 215; p. 1329.
- Blake, Fred D., assignor to Blake Car Step Works, Charlotte, N. C. Car-step. No. 1,136,583; Apr. 20; Gaz. vol. 213; p. 969.
- Blake, Frederick L., and M. D. Reldy, Worcester, Mass. Calipers or dividers. No. 1,135,095; Apr. 13; Gaz. vol. 213; p. 406.
- Blake, Frederick J., Bassett, and R. J. Caldwell, Southampton, England. Fire-bridge of marine-boiler and other furnaces. No. 1,124,102; Jan. 5; Gaz. vol. 210; p. 307.
- Blake, Frederick W. (See Schrafft, Blake, and Lorentzen.)
- Blake, George W., Wyandotte, Mich. Pouring-spout. No. 1,124,996; Jan. 12; Gaz. vol. 210; p. 674.
- Blake, James H., Seaman, Ohio. Lamp-chimney holder. No. 1,125,448; Jan. 19; Gaz. vol. 210; p. 873.
- Blake, Kenneth B. (See Kalms, Savell, and Blake.)
- Blake, Lionel J. B., Carlisle, England. Gas-turbine. No. 1,148,653; Aug. 3; Gaz. vol. 217; p. 61.
- Blake, Ralph V., Yonkers, N. Y. Hose-supporter. No. 1,161,107; Nov. 23; Gaz. vol. 220; p. 1080.
- Blake, Samuel M., and J. W. Bates, Minneapolis, Minn. Lock-switch for electric circuits. No. 1,132,700; Mar. 23; Gaz. vol. 212; p. 1126.
- Blake Signal and Manufacturing Company. (See Jansson, Bennett G., assignor.)
- Blakely, Archibald J., Chandler, Ariz. Flume-gate. No. 1,158,165; Oct. 26; Gaz. vol. 219; p. 1111.
- Blakely, Clarence, et al. (See Kendrick, Karl A., assignor.)
- Blakely, Edward B., Muskegon, assignor to Gray Motor Company, Detroit, Mich. Boat-motor. No. 1,139,631; May 18; Gaz. vol. 214; p. 745.
- Blakeslee, Charles F., Rapatee, Ill. Wagon-seat. No. 1,150,739; Aug. 17; Gaz. vol. 217; p. 965.
- Blakeslee, Everett L., Portland, Oreg. Bottle-cap. No. 1,158,622; Nov. 2; Gaz. vol. 220; p. 75.
- Blakeslee, Henry J., Hartford, Conn. Electrical testing apparatus. No. 1,159,354; Nov. 9; Gaz. vol. 220; p. 360.
- Blakeslee, Raymond I. (See Hill, Aaron, assignor.)
- Blakey, Edward B. (See Blakey, Joseph F. and E. B.)
- Blakey, Edward B., and R. B. McCollum, Kansas City, Mo. Pneumatic jack for motor-cars. No. 1,130,884; Mar. 9; Gaz. vol. 212; p. 398.
- Blakey, Joseph F. and E. B., Kansas City, Mo. Compensating gearing. No. 1,134,665; Apr. 6; Gaz. vol. 213; p. 213.
- Blanchard, Alva W., Brooklyn, N. Y. Shock-absorber. No. 1,125,942; Jan. 26; Gaz. vol. 210; p. 1079.

Alphabetical list of patentees—Continued.

- Blanchard, Arthur H., Worcester, Mass. Adjustable coupling. No. 1,125,642; Jan. 19; Gaz. vol. 210; p. 939.
- Blanchard, Arthur I., Upper Clapton, London, England. Liquid-hydrocarbon-vapor burner. No. 1,129,783; Feb. 23; Gaz. vol. 211; p. 1212.
- Blanchard, Benjamin F., Fullerton, Cal. Fishing-tool. No. 1,130,881; Mar. 9; Gaz. vol. 212; p. 397.
- Blanchard, Charles M., Elyria, Ohio. Internal-combustion engine. No. 1,124,837; Jan. 12; Gaz. vol. 210; p. 619.
- Blanchard, Charles M., Elyria, Ohio. Valve-operating mechanism for internal-combustion engines. No. 1,124,838; Jan. 12; Gaz. vol. 210; p. 619.
- Blanchard, Charles M., Elyria, Ohio. Cylinder and piston construction for internal combustion engines. No. 1,124,839; Jan. 12; Gaz. vol. 210; p. 620.
- Blanchard, Charles M., Willoughby, Ohio. Cylinder construction for internal combustion engines. No. 1,124,840; Jan. 12; Gaz. vol. 210; p. 620.
- Blanchard Delinier Co. (See Blanchard, George L., assignor.)
- Blanchard, Elias P., A. C. Smith, and G. W. Bouldry, East Bridgewater, Mass. Altering the designs of shoe-lasts. No. 1,128,096; Feb. 9; Gaz. vol. 211; p. 543.
- Blanchard, Fred M., assignor of one-half to H. N. Comey, Danvers, Mass. Crayon-making machine. No. 1,123,667; Jan. 5; Gaz. vol. 210; p. 161.
- Blanchard, Frederick C., and E. B. Crocker, assignors to The Consolidated Safety Valve Company, Bridgeport, Conn. Safety-valve. No. 1,143,027; June 15; Gaz. vol. 215; p. 756.
- Blanchard, Frederick C., and E. B. Crocker, assignors to The Consolidated Safety Valve Company, Bridgeport, Conn. Safety-valve. No. 1,151,508; Aug. 24; Gaz. vol. 217; p. 1284.
- Blanchard, George L., Montgomery, Ala. Machine for manufacturing strip-saws. No. 1,156,458; Oct. 12; Gaz. vol. 219; p. 420.
- Blanchard, George L., Montgomery, Ala. Saw and saw-cylinder for linters and cotton-gins. No. 1,161,830; Nov. 30; Gaz. vol. 220; p. 1381.
- Blanchard, George L., Montgomery, Ala. Saw and saw-cylinder for linters and cotton-gins. No. 1,161,831; Nov. 30; Gaz. vol. 220; p. 1382.
- Blanchard, George L., assignor to Blanchard Delinier Co., Montgomery, Ala. Linter and cotton-gin. No. 1,125,049; Jan. 19; Gaz. vol. 210; p. 729.
- Blanchard, George N., assignor of one-half to W. H. Busch, Jr., San Francisco, Cal. Thermo-electric regulating system. No. 1,141,207; June 1; Gaz. vol. 215; p. 79.
- Blanchard, Helen A., Philadelphia, Pa., assignor to Union Special Machine Company, Chicago, Ill. Hat-sewing machine. No. 1,161,595; Nov. 23; Gaz. vol. 220; p. 1254.
- Blanchard, Irving W., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for forming uppers of boots and shoes. No. 1,148,744; Aug. 3; Gaz. vol. 217; p. 95.
- Blanchard, Irving W., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for forming uppers of boots and shoes. No. 1,161,019; Nov. 23; Gaz. vol. 220; p. 1050.
- Blanchard, Jeanne M., Bordeaux, France. Dial-moving mechanism for clocks. No. 1,137,182; Apr. 27; Gaz. vol. 213; p. 1219.
- Blanchard, Kirk S., Brooklyn, N. Y. Water-closet. No. 1,165,836; Dec. 28; Gaz. vol. 221; p. 1208.
- Blanchard, Leon E., Boston, assignor, by mesne assignments, to E. T. Newton, Holyoke, Mass. Speedometer. No. 1,129,329; Feb. 23; Gaz. vol. 211; p. 1057.
- Blanchard Machine Company, The. (See Spencer, Henry K., assignor.)
- Blanchard, William H., Jr., Baltimore, Md. Form for neck-scarfs. No. 1,128,403; Feb. 16; Gaz. vol. 211; p. 698.
- Blanchette, Joseph, Tacoma, Wash. Spark-arrester. No. 1,126,692; Feb. 2; Gaz. vol. 211; p. 8.
- Bland, Charles C. (See Spencer and Bland.)
- Blanding, Robert L., Providence, R. I. Heating apparatus. No. 1,160,489; Nov. 16; Gaz. vol. 220; p. 816.
- Blaney, William, assignor of one-half to A. S. Adams, Marblehead, Mass. Heel. No. 1,142,662; June 8; Gaz. vol. 215; p. 589.
- Blank, August, C. Heidenreich, and J. Janssen, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Blue trisazo coloring-matter. No. 1,125,050; Jan. 19; Gaz. vol. 210; p. 729.
- Blank, August, C. Heidenreich, and J. Jansen, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Azo dyestuffs. No. 1,150,656; Aug. 17; Gaz. vol. 217; p. 937.
- Blank, Charles A. (See Lavan, Frank, assignor.)
- Blank, Henry, Glen Ridge, N. J., assignor to Whiteside & Blank. Necklace-clasp. No. 1,156,267; Oct. 12; Gaz. vol. 219; p. 351.
- Blank, Herman, Jr., Madison, Nebr. Ice-cutting machine. No. 1,155,400; Oct. 5; Gaz. vol. 219; p. 26.
- Blankenhagen, Albert, assignor of one-half to F. W. Blankenhagen, Akron, Ohio. Ladder. No. 1,155,125; Sept. 28; Gaz. vol. 218; p. 1066.
- Blankenhagen, Frank W. (See Blankenhagen, Albert, assignor.)
- Blankner, William, Cleveland, Ohio, assignor of one-half to C. G. Urschel, Trenton, N. J. Ice-machine. No. 1,156,832; Oct. 12; Gaz. vol. 219; p. 550.
- Blansett, John E., assignor of one-third to A. T. Knauss, Teton, Idaho. Hay-stacker. No. 1,139,157; May 11; Gaz. vol. 214; p. 544.
- Bardone, George, C. W. Nichols, and F. Bruguiere, New Orleans, La. Substitute for lampblack. No. 1,156,742; Oct. 12; Gaz. vol. 219; p. 519.
- Blashfield, James M., assignor of one-half to T. Scott, Jackson, Mich. Hot-air furnace. No. 1,125,449; Jan. 19; Gaz. vol. 210; p. 873.
- Blastingame, Charles J., Gibsonburg, Ohio. Gear-shifting mechanism and lock therefor. No. 1,166,318; Dec. 28; Gaz. vol. 221; p. 1382.
- Blasius, Oscar. (See Wuest, Philip, Jr., assignor.)
- Blaske, William C., assignor, by mesne assignments, to Heat Saver Company, Chicago, Ill. Fuel-saving device. No. 1,134,943; Apr. 6; Gaz. vol. 213; p. 306.
- Blass, Edwin J., Portage, Wis. Ash-sifter. No. 1,155,875; Oct. 5; Gaz. vol. 219; p. 192.
- Blass, John, Girardville, Pa. Drill-bit. No. 1,162,211; Nov. 30; Gaz. vol. 220; p. 1515.
- Blasser, Ernest, et al. (See Miller, John, Sr., assignor.)
- Blatchford, John, Oak Park, Ill. Electric furnace. No. 1,129,842; Mar. 2; Gaz. vol. 212; p. 4.
- Bláthy, Otto T., Budapest, Austria-Hungary. Radial-pole dynamo-electric machine. No. 1,142,009; June 8; Gaz. vol. 215; p. 361.
- Bláthy, Otto T., Budapest, Austria-Hungary. Method of and means for calibrating electric meters. No. 1,160,567; Nov. 16; Gaz. vol. 220; p. 844.
- Blattner, Israel S., McKeesport, Pa. Faucet. No. 1,149,892; Aug. 10; Gaz. vol. 217; p. 606.
- Blattstein, Adolphe, New York, N. Y. Casting-machine. No. 1,124,841; Jan. 12; Gaz. vol. 210; p. 621.
- Blau, Ernst, Ratibor, Germany. Lathe for the turning of wheels. No. 1,129,545; Feb. 23; Gaz. vol. 211; p. 1133.
- Blau, Fritz, Berlin, Germany, assignor, by mesne assignments, to General Electric Company, Removing carbon from pressed bodies of tungsten. No. 1,135,154; Apr. 13; Gaz. vol. 213; p. 427.
- Blau, Fritz, Charlottenburg, Germany, assignor to General Electric Company. Manufacture of fine refractory-metal wires. No. 1,157,288; Oct. 19; Gaz. vol. 219; p. 742.
- Blau, Hermann, Augsburg, Germany. Separating water from gas. No. 1,160,826; Nov. 16; Gaz. vol. 220; p. 937.
- Blaul, Charles, Morton Grove Station, and F. H. Kimmich, Chicago, Ill. Combination conveyor and drier for bricks. No. 1,129,444; Feb. 23; Gaz. vol. 211; p. 1098.
- Blauvelt, Archie J., Elm, N. Y. Motor-plow. No. 1,157,289; Oct. 19; Gaz. vol. 219; p. 743.
- Blauvelt, James P., Nyack, N. Y. Terminal connection for spark-plugs. No. 1,138,445; May 4; Gaz. vol. 214; p. 255.
- Blaw Collapsible Steel Centering Co. (See Blaw, Jacob B., assignor.)
- Blaw Collapsible Steel Centering Company. (See McArthur, Charles D., assignor.)
- Blaw Collapsible Steel Centering Company. (See Venable, William M., assignor.)
- Blaw, Jacob B., assignor to Blaw Collapsible Steel Centering Co., Pittsburgh, Pa. Centering. No. 1,125,943; Jan. 26; Gaz. vol. 210; p. 1079.
- Blaw Steel Construction Company. (See McArthur, Charles D., assignor.)
- Blaw Steel Construction Company. (See Rawley, Wayne, assignor.)
- Blaw Steel Construction Company. (See Venable, William M., assignor.)
- Blayney, Robert O., Niagara Falls, Ontario, Canada. Mold for tubular concrete structures. No. 1,145,228; July 6; Gaz. vol. 216; p. 89.
- Blažek, Stephan A., New York, N. Y. Keyless lock. No. 1,157,837; Oct. 26; Gaz. vol. 219; p. 995.
- Blazer, George W., Copperopolis, Cal. Farm-gate. No. 1,131,109; Mar. 9; Gaz. vol. 212; p. 474.
- Blazer, Philip H., Minerva, Ohio. Wagon-brake-actuating mechanism. No. 1,165,648; Dec. 28; Gaz. vol. 221; p. 1144.
- Blecher, Carl, Berlin-Dahlen, assignor to Rotophot Aktiengesellschaft für graphische Industrie, Berlin, Germany. Producing combination printing-plates for printing combined half-tone and printed type or line work. No. 1,150,414; Aug. 17; Gaz. vol. 217; p. 852.
- Blechman, Kamille, New York, N. Y. Collapsible hat. No. 1,163,313; Dec. 7; Gaz. vol. 221; p. 202.
- Bleckwenn, Ludwig G., Hanover, assignor to Chemische Fabrik von Heyden, Aktiengesellschaft, Radebeul, near Dresden, Germany. Manufacture of salts of formaldehyde sulfurous acid with aluminum oxid. No. 1,149,712; Aug. 10; Gaz. vol. 217; p. 541.
- Bledsoe, John C., Cleburne, Kans. Collapsible coop. No. 1,161,108; Nov. 23; Gaz. vol. 220; p. 1080.
- Bledsoe, John C., Cleburne, Kans. Poultry-coop. No. 1,164,457; Dec. 14; Gaz. vol. 221; p. 648.
- Bledsoe, John H., assignor to Equitable Asphalt Maintenance Company, Kansas City, Mo. Asphalt-mixing apparatus. No. 1,136,204; Apr. 20; Gaz. vol. 213; p. 833.

Alphabetical list of patentees—Continued.

- Bledsoe, John H., assignor to Equitable Asphalt Maintenance Company, Kansas City, Mo. Mixing asphalt. No. 1,136,205; Apr. 20; Gaz. vol. 213; p. 833.
- Bledsoe, Oscar F., Jr., Shelimound, Miss. Machine for catching boll-weevils. No. 1,151,437; Aug. 24; Gaz. vol. 217; p. 1259.
- Blee, Charles O. (See Palmer, Blee, Bowman, and Palmer.)
- Bleeker, Albert, assignor to The Portage Rubber Company, Barberton, Ohio. Tubing-machine. No. 1,133,610; Mar. 30; Gaz. vol. 212; p. 1491.
- Blennerhassett, Arthur A., Fort William, assignor to J. Hodgson, Toronto, Ontario, Canada. Wheel-guard. No. 1,134,178; Apr. 6; Gaz. vol. 213; p. 35.
- Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone switching apparatus. No. 1,145,542; July 6; Gaz. vol. 216; p. 198.
- Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Impulse-transmitting device. No. 1,145,543; July 6; Gaz. vol. 216; p. 198.
- Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Impulse-transmitting device. No. 1,145,544; July 6; Gaz. vol. 216; p. 199.
- Blest, Minot C., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Hopper-bottom car. No. 1,160,827; Nov. 16; Gaz. vol. 220; p. 938.
- Blest, Minot C., Hegewisch, Ill., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Door-operating mechanism. No. 1,160,828; Nov. 16; Gaz. vol. 220; p. 938.
- Blevins, David T., and A. B. Randall, assignors to The Acme Patent and Development Company, Windsor, Colo. Beet-topper. No. 1,135,988; Apr. 20; Gaz. vol. 213; p. 758.
- Blevney, John C., Newark, N. J. Gromet-inserting machine. No. 1,134,507; Apr. 6; Gaz. vol. 213; p. 154.
- Blevney, John C., Newark, N. J. Grinding and polishing machine. No. 1,134,508; Apr. 6; Gaz. vol. 213; p. 155.
- Blichfeldt, Søren H., Southall, England, assignor to Flakes A/S, Copenhagen, Denmark. Emulsifying apparatus. No. 1,166,319; Dec. 28; Gaz. vol. 221; p. 1382.
- Blickhan, Matilda. (See Wells and Blickhan.)
- Blieberger, Gustav, New York, N. Y. Making menthyl-salicylic methyl ester. No. 1,133,832; Mar. 30; Gaz. vol. 212; p. 1571.
- Blieberger, Gustav, New York, N. Y. Fuel for kinetic engines and making the same. No. 1,158,367; Oct. 26; Gaz. vol. 219; p. 1181.
- Billey, Charles A., Cripple Creek, assignor of one-half to E. A. Colburn, Jr., Victor, Colo. Electric pull-switch. No. 1,132,154; Mar. 16; Gaz. vol. 212; p. 878.
- Blinks, Walter M., trustee. (See Wardy, Harry A., assignor.)
- Blinn, Charles P., Jr., et al., receivers. (See McElroy, Patrick J., assignor.)
- Blish, John, Brookline, Mass. Breech-closure for firearms. No. 1,131,319; Mar. 9; Gaz. vol. 212; p. 547.
- Bliss, Amos R., Chicago, Ill. Humidifying device. No. 1,155,701; Oct. 5; Gaz. vol. 219; p. 131.
- Bliss, Donald M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Alternating-current motor. No. 1,126,363; Jan. 26; Gaz. vol. 210; p. 1233.
- Bliss, Donald M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Alternating-current-rectifying system. No. 1,152,594; Sept. 7; Gaz. vol. 218; p. 70.
- Bliss, Edward C., Waverly, Ohio. Shaft-releasing and brake-applying device for vehicles. No. 1,156,661; Oct. 12; Gaz. vol. 219; p. 492.
- Bliss, Ellis B., New York, N. Y. Automobile. No. 1,131,034; Mar. 9; Gaz. vol. 212; p. 449.
- Bliss, Elmer F., Schenectady, N. Y., assignor to General Electric Company. Heating system. No. 1,161,596; Nov. 23; Gaz. vol. 220; p. 1255.
- Bliss, Emily B., Cincinnati, Ohio. Loom. No. 1,160,132; Nov. 16; Gaz. vol. 220; p. 691.
- Bliss, Henry J. W. (See Matthews and Bliss.)
- Bliss, Herbert R., and L. Johnston, Detroit, Mich.; said Johnston assignor to G. M. Tuttle, Niagara Falls, N. Y. Anvil-pedal. No. 1,131,320; Mar. 9; Gaz. vol. 212; p. 548.
- Bliss, Herbert R., and L. Johnston, Detroit, Mich.; said Johnston assignor to G. M. Tuttle, Niagara Falls, N. Y. Work-table for a machine for driving metallic fasteners. No. 1,131,321; Mar. 9; Gaz. vol. 212; p. 548.
- Bliss, William L., Niagara Falls, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Adapter for axle-driven generators. No. 1,125,944; Jan. 26; Gaz. vol. 210; p. 1080.
- Bliss, William L., Brooklyn, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Support for dynamo-electric machines. No. 1,131,200; Mar. 9; Gaz. vol. 212; p. 506.
- Bliss, William L., Brooklyn, N. Y., assignor, by mesne assignments, to Central Trust Company of New York. End-cell regulator. No. 1,135,494; Apr. 13; Gaz. vol. 213; p. 543.
- Bliss, William L., assignor, by mesne assignments, to The U. S. Light and Heat Corporation, Niagara Falls, N. Y. Hand-hole cover for generators. No. 1,157,497; Oct. 19; Gaz. vol. 219; p. 816.
- Bliss, William L., assignor, by mesne assignments, to The U. S. Light and Heat Corporation, Niagara Falls, N. Y. Oil-well closure. No. 1,157,498; Oct. 19; Gaz. vol. 219; p. 816.
- Bliss, William L., assignor, by mesne assignments, to The U. S. Light and Heat Corporation, Niagara Falls, N. Y. Belt and belt-fastener. No. 1,157,499; Oct. 19; Gaz. vol. 219; p. 816.
- Bliss, William L., assignor, by mesne assignments to The United States Light and Heat Corporation, Niagara Falls, N. Y. Means for circulating electrolyte. No. 1,160,133; Nov. 16; Gaz. vol. 220; p. 692.
- Blitz Bros. (See Blitz, Herman, assignor.)
- Blitz, Herman, assignor to Blitz Bros., Chicago, Ill. Anti-friction-bearing for display-cabinet doors. No. 1,128,653; Feb. 16; Gaz. vol. 211; p. 784.
- Bloch, Bruno, Berlin, Germany, assignor to Mergenthaler Linotype Company. Distributor for typographical machines. No. 1,135,430; Apr. 13; Gaz. vol. 213; p. 521.
- Bloch, Bruno, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,154,166; Sept. 21; Gaz. vol. 218; p. 707.
- Bloch, Emanuel T., Lejre, Denmark. Apparatus for the treatment of the limbs of the human body. No. 1,136,397; Apr. 20; Gaz. vol. 213; p. 903.
- Bloch, Joseph H., Scranton, Pa. Shoe-protector. No. 1,124,842; Jan. 12; Gaz. vol. 210; p. 621.
- Bloch, Mayer J. R., Paris, France. Perfume-sprayer. No. 1,134,098; Apr. 6; Gaz. vol. 213; p. 6.
- Bloch, Moses L. (See Hyde, Frederick, assignor.)
- Bloch-Pimentel, Emile, Paris, France. Press-vat. No. 1,135,757; Apr. 13; Gaz. vol. 213; p. 636.
- Blocher, Daniel J., Pearl City, Ill. Nut-lock. No. 1,134,666; Apr. 6; Gaz. vol. 213; p. 213.
- Block, Albert J., assignor to E. Jones, Chicago, Ill. Electrically-heated appliance. No. 1,142,769; June 8; Gaz. vol. 215; p. 626.
- Block, Alexander E., St. Louis, Mo. Support for the anterior metatarsal arch of the foot. No. 1,127,349; Feb. 2; Gaz. vol. 211; p. 238.
- Block, Alexander E., St. Louis, Mo. Arch-support. No. 1,145,180; July 6; Gaz. vol. 216; p. 72.
- Block, Charles W., Neenah, Wis. Hitching device. No. 1,153,188; Sept. 14; Gaz. vol. 218; p. 328.
- Block, John W., Joliet, Ill. Oiling device. No. 1,132,701; Mar. 23; Gaz. vol. 212; p. 1127.
- Block, Michael, Boston, Mass., assignor to American Can Company, New York, N. Y. Display-cover for packages. No. 1,148,654; Aug. 3; Gaz. vol. 217; p. 62.
- Block, Michael, Boston, Mass., assignor to American Can Company, New York, N. Y. Display-cover for containers of various types. No. 1,148,655; Aug. 3; Gaz. vol. 217; p. 62.
- Block, Otto B., Shippensburg, Pa. Fountain shaving-brush. No. 1,126,693; Feb. 2; Gaz. vol. 211; p. 9.
- Block, William I., Chicago, Ill. Metal table. No. 1,165,061; Dec. 21; Gaz. vol. 221; p. 898.
- Blocki, Frank A. (See Blocki, Franz and F. A.)
- Blocki, Franz and F. A., Sheboygan, Wis. Windrower-rod connector. No. 1,125,260; Jan. 19; Gaz. vol. 210; p. 806.
- Blodgett, Charles L., Alameda, Cal. Clothes-line pulley. No. 1,157,143; Oct. 19; Gaz. vol. 219; p. 690.
- Blodgett, John W., Chicago, Ill. Valve for pneumatic tires. No. 1,162,744; Dec. 7; Gaz. vol. 221; p. 5.
- Blodgett, John W., Chicago, Ill. Manufacturing reinforced air-tubes. No. 1,162,745; Dec. 7; Gaz. vol. 221; p. 5.
- Blodgett, Stephen H., Lincoln, Mass. Receptacle. No. 1,126,364; Jan. 26; Gaz. vol. 210; p. 1233.
- Blodgett, William G., Milwaukee, Wis. Fishing-reel. No. 1,150,575; Aug. 17; Gaz. vol. 217; p. 910.
- Blogg, Max and S., Hamburg, Germany. Covering for bread or the like. No. 1,149,713; Aug. 10; Gaz. vol. 217; p. 541.
- Blogg, Siegfried. (See Blogg, Max and S.)
- Blom & Voss, Kommandit-Gesellschaft auf Aktien. (See Jessen, Theodor, assignor.)
- Blom, John H. (See McRae and Blom.)
- Blom, Ole H., Fairfield, Wash. Tiltable-ladder structure. No. 1,134,437; Apr. 6; Gaz. vol. 213; p. 129.
- Blomquist, August, Chicago, Ill. Hot-water attachment for gas-stoves. No. 1,160,246; Nov. 16; Gaz. vol. 220; p. 731.
- Blomquist, John O., Dorchester, Mass., assignor to Maxim Manufacturing Company. Carbureter. No. 1,157,363; Oct. 19; Gaz. vol. 219; p. 768.
- Blomstrom, Vern, Detroit, Mich. Rail-tie. No. 1,142,663; June 8; Gaz. vol. 215; p. 589.
- Blonay, Jean de, assignor to Sapal Societe Anonyme des Pileuses Automatiques, Lausanne, Switzerland. Packing and wrapping machine. No. 1,136,412; Apr. 20; Gaz. vol. 213; p. 909.
- Blondel, André E., Paris, France. Rapid photographic record of curves of oscillographs, rheographs, and the like. No. 1,139,476; May 18; Gaz. vol. 214; p. 691.
- Blood, Burr B., assignor, by mesne assignments, of one-half to Kinney-Rome Company, Chicago, Ill., and one-half to Rome Metallic Bedstead Company, Rome, N. Y. Bed construction. No. 1,161,921; Nov. 30; Gaz. vol. 220; p. 1414.

Alphabetical list of patentees—Continued.

- Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Self-centering support for rotary heads. No. 1,166,408; Dec. 28; Gaz. vol. 221; p. 1414.
- Blood, Howard E., Kalamazoo, Mich. Vehicle-seat. No. 1,125,801; Jan. 19; Gaz. vol. 210; p. 998.
- Blood, Howard E., Kalamazoo, Mich. Variable-speed gearing. No. 1,154,365; Sept. 21; Gaz. vol. 218; p. 777.
- Blood, Joseph W., Minneapolis, Minn. Automatic damper. No. 1,135,568; Apr. 13; Gaz. vol. 213; p. 569.
- Blood, Maurice E., Kalamazoo, Mich. Driving-gear. No. 1,155,467; Oct. 5; Gaz. vol. 219; p. 49.
- Bloom, Anna B. (See Haugh, Frank A., assignor.)
- Bloom, David, Berkeley, Cal. Receptacle-closure. No. 1,159,825; Nov. 9; Gaz. vol. 220; p. 530.
- Bloom, Edgar J., Tiffin, Ohio. Lavatory-fixture. No. 1,136,091; Apr. 20; Gaz. vol. 213; p. 793.
- Bloom, Edward, Haledon, N. J. Warming-machine. No. 1,138,620; May 11; Gaz. vol. 214; p. 352.
- Bloom, Jacob E., Brooklyn, N. Y. Process and apparatus for preparing beverages, and products produced thereby. No. 1,162,212; Nov. 30; Gaz. vol. 220; p. 1515.
- Bloom, Jacob E., Brooklyn, N. Y. Process and apparatus for the electrical treatment of liquids and fluids, and the products resulting therefrom. No. 1,162,213; Nov. 30; Gaz. vol. 220; p. 1515.
- Bloom, Moses E., New York, N. Y. Poison-tablet. No. 1,156,584; Oct. 12; Gaz. vol. 219; p. 464.
- Bloom, Samuel C. (See Braemer and Bloom.)
- Bloomberg, Joseph E., assignor to The Wallace & Smith Co., Milwaukee, Wis. Whip. No. 1,157,838; Oct. 26; Gaz. vol. 219; p. 996.
- Bloomer, Charles T. (See Green, Charles E., assignor.)
- Bloomer, Charles T. (See Green and Bloomer.)
- Bloomer, Charles T., Newark, N. Y. Egg-box. No. 1,143,745; June 22; Gaz. vol. 215; p. 1030.
- Bloomer, Charles T., Newark, N. Y. Paper pail or box. No. 1,154,086; Sept. 21; Gaz. vol. 218; p. 680.
- Bloomer, Harvey E., assignor to P. & B. Mfg. Co., Milwaukee, Wis. Electric heating-pad. No. 1,142,393; June 8; Gaz. vol. 215; p. 498.
- Blose, Irvin R., Sharon, Pa., assignor of one-half to W. Dixon, Martins Ferry, Ohio. Rolling-mill. No. 1,150,492; Aug. 17; Gaz. vol. 217; p. 879.
- Blosick, Thomas J., Shaniko, Oreg. Wire-stretcher. No. 1,130,704; Mar. 9; Gaz. vol. 212; p. 336.
- Blosick, Thomas J., assignor of one-fourth to J. W. Fisher, Shaniko, Oreg. Window-sash lock. No. 1,161,597; Nov. 23; Gaz. vol. 220; p. 1255.
- Bloss, William H., assignor of one-half to W. D. Hamer, Indianapolis, Ind. Drill. No. 1,162,441; Nov. 30; Gaz. vol. 220; p. 1594.
- Blount, Frederick A., *et al.* (See Smith, Edward W., assignor.)
- Blount, James J. (See McDermott, Dominic D., assignor.)
- Blount, William A. (See Thompson, Joshua E., assignor.)
- Bloxham, Charles M., Verona, assignor to Union Tank Line Company, Bayonne, N. J. Discharge appliance for railway tank-cars. No. 1,135,254; Apr. 13; Gaz. vol. 213; p. 459.
- Blubaugh, Francis P., Fort Scott, Kans. Rotary valve for explosive-engines. No. 1,141,758; June 1; Gaz. vol. 215; p. 236.
- Blue, Cary S., assignor of one-half to W. A. McDaniel, Converse, Ind. Brake mechanism. No. 1,123,471; Jan. 5; Gaz. vol. 210; p. 94.
- Blue, Chilton W., assignor to Janney & Company, Montgomery, Ala. Brake-shoe. No. 1,153,753; Sept. 14; Gaz. vol. 218; p. 529.
- Blue Island Specialty Company. (See Montag, Christoph F., assignor.)
- Bluege, Adam, Chicago, Ill. Cutter. No. 1,144,750; June 29; Gaz. vol. 215; p. 1407.
- Bluff, John T., assignor of one-half to F. F. Hayes, Butte, Mont. Sanitary appliance. No. 1,124,103; Jan. 5; Gaz. vol. 210; p. 307.
- Blum, Joseph. (See Geier, James, assignor.)
- Blum, Edward W., assignor to The Bradford Machine Tool Company, Cincinnati, Ohio. Lathe. No. 1,143,592; June 15; Gaz. vol. 215; p. 954.
- Blum, Isaac. (See Kerngood and Blum.)
- Blum, Joseph, New York, N. Y. Roach-trap. No. 1,128,946; Feb. 16; Gaz. vol. 211; p. 889.
- Blum, Louis, and J. Kruse, assignors to Mechanical Novelty and Manufacturing Co., St. Louis, Mo. Game apparatus. No. 1,150,657; Aug. 17; Gaz. vol. 217; p. 937.
- Blumberg, Robert L., assignor to The Way Co., Inc., New York, N. Y. Oil-gas burner. No. 1,162,558; Nov. 30; Gaz. vol. 220; p. 1634.
- Blume, Charles, Chicago, Ill. Hame and trace connector. No. 1,126,946; Feb. 2; Gaz. vol. 211; p. 99.
- Blume, Michael, New York, N. Y. Receptacle cover and spout. No. 1,135,758; Apr. 13; Gaz. vol. 213; p. 636.
- Blume, Robert A., assignor to Valveless Engine Corporation, Seattle, Wash. Internal-combustion engine. No. 1,154,366; Sept. 21; Gaz. vol. 218; p. 778.
- Blumenfeld, Locher Co. (See Fuhr, Henry, assignor.)
- Blumenstein, Louis. (See Fischer, William, assignor.)
- Blumenthal, Maurice, Brooklyn, N. Y. Tool for detaching obstructions from electric-wire conduits. No. 1,160,829; Nov. 16; Gaz. vol. 220; p. 938.
- Blumenthal, Maurice, Brooklyn, and B. S. Barnard, New York, N. Y. Electric-cable hanger. No. 1,123,668; Jan. 5; Gaz. vol. 210; p. 161.
- Blumer, Elizabeth, Albany, Wis. Drinking-fountain or waterer for fowls. No. 1,136,092; Apr. 20; Gaz. vol. 213; p. 793.
- Blumer, Firm of Louis. (See Pechstein, Max, assignor.)
- Blundell, George, Los Angeles, Cal. Arm-rest. No. 1,135,155; Apr. 13; Gaz. vol. 213; p. 427.
- Blundell, William C., assignor of one-half to J. M. Huling, Los Angeles, Cal. Fusible-plug mechanism for steam motor-vehicles. No. 1,123,669; Jan. 5; Gaz. vol. 210; p. 162.
- Blunt, James G., Schenectady, N. Y. Locomotive trailing truck. No. 1,133,427; Mar. 30; Gaz. vol. 212; p. 1425.
- Blunt, Laurien E., Wilmette, and T. J. Blunt, Chicago, Ill. Hame-fastener. No. 1,161,443; Nov. 23; Gaz. vol. 220; p. 1202.
- Blunt, Thomas J. (See Blunt, Laurien E. and T. J.)
- Bluthardt, Edwin, Chicago, Ill. Bottle seal and cap. No. 1,131,201; Mar. 9; Gaz. vol. 212; p. 506.
- Bluthenthal, Herbert C., Pine Bluff, Ark. Device for opening receptacles. No. 1,147,266; July 20; Gaz. vol. 216; p. 822.
- Blye, Samuel, Bowling Green, Ky. Flood-fence. No. 1,161,375; Nov. 23; Gaz. vol. 220; p. 1179.
- Blystone Manufacturing Company. (See McIntyre, David, assignor.)
- Blything, John F., Chicago, Ill. Lock-valve. No. 1,153,189; Sept. 14; Gaz. vol. 218; p. 329.
- Boal, Hugh M., Corry, Pa. Circuit-breaker. No. 1,148,437; July 27; Gaz. vol. 216; p. 1280.
- Boal, Robert T., Kearney, N. J. Safety belt and clutch shifting mechanism. No. 1,152,781; Sept. 7; Gaz. vol. 218; p. 146.
- Board, Patrick T. (See Krebs and Morgan, assignors.)
- Boardman, Charles H., Vivian, W. Va. Car-brake. No. 1,161,598; Nov. 23; Gaz. vol. 220; p. 1255.
- Boardman, Charles H., Columbus, Ohio, assignor to Sundries Manufacturing Company, Portland, Me. Machine for mining coal. No. 1,130,250; Mar. 2; Gaz. vol. 212; p. 141.
- Boardman, Charles W., Pawtucket, R. I. Wheel-mount for spinning-machines. No. 1,146,396; July 13; Gaz. vol. 216; p. 517.
- Boardman, Charles W., Pawtucket, R. I. Tension-pulley for spindle-driving mechanism of textile-spinning machines, &c. No. 1,148,745; Aug. 3; Gaz. vol. 217; p. 95.
- Boardman, Harry L., Portland, Oreg. Casing-spear. No. 1,150,095; Aug. 17; Gaz. vol. 217; p. 740.
- Boas, Hans, Berlin, Germany. Electric spark-gap. No. 1,152,272; Aug. 31; Gaz. vol. 217; p. 1594.
- Boatwright, Acree L. (See Walker and Boatwright.)
- Boax, John J., McKeesport, assignor to The National Tube Company, Pittsburgh, Pa. Pipe-threading machine. No. 1,124,692; Jan. 12; Gaz. vol. 210; p. 567.
- Bobbitt, Charles M., Alma, Nebr. Corn-busking implement. No. 1,161,020; Nov. 23; Gaz. vol. 220; p. 1050.
- Boblett, Kinderman M., Toledo, Ohio. Radiator. No. 1,140,494; May 25; Gaz. vol. 214; p. 1085.
- Boblit, George W., Baltimore, Md. Envelop-fastener. No. 1,123,983; Jan. 5; Gaz. vol. 210; p. 266.
- Bobrick, Gabriel A., Los Angeles, Cal. Liquid-soap dispenser. No. 1,158,166; Oct. 26; Gaz. vol. 219; p. 1112.
- Bobroff, Burnett L., Milwaukee, Wis. Vehicle signal apparatus. No. 1,149,245; Aug. 10; Gaz. vol. 217; p. 372.
- Bobroff, Burnett L., Milwaukee, Wis. Vehicle signal apparatus. No. 1,162,442; Nov. 30; Gaz. vol. 220; p. 1595.
- Bobroff, Burnett L., assignor to Universal Indicator Company, Milwaukee, Wis. Telegraphy. No. 1,144,290; June 22; Gaz. vol. 215; p. 1222.
- Bobroff, Burnett L., assignor to Universal Indicator Company, Milwaukee, Wis. Telegraphy. No. 1,157,839; Oct. 26; Gaz. vol. 219; p. 996.
- Bocandé, Olivier, Paris, France. Preservation of meat and other foodstuffs. No. 1,148,823; Aug. 3; Gaz. vol. 217; p. 122.
- Boccia, Charles. (See Colonnese, Frank, assignor.)
- Boch, Philipp, assignor of one-half to P. Reich, New York, N. Y. Car-brake. No. 1,153,151; Sept. 7; Gaz. vol. 218; p. 276.
- Bochenek, Pawel, Brooklyn, N. Y. Change-handler. No. 1,141,759; June 1; Gaz. vol. 215; p. 237.
- Bock, Alfred C. O. (See Fleischer and Bock.)
- Bock, Alfred C. O., assignor of one-third to J. J. Donnellan and one-third to J. L. Donnellan, Brooklyn, N. Y. Coin-counting machine. No. 1,160,830; Nov. 16; Gaz. vol. 220; p. 939.
- Bock, Henry L., assignor to W. E. Bock, Toledo, Ohio, Roller-bearing. No. 1,138,180; May 4; Gaz. vol. 214; p. 161.
- Bock, Henry L., assignor to W. E. Bock, Toledo, Ohio. Combined radiator and headlight for motor-vehicles. No. 1,138,182; May 4; Gaz. vol. 214; p. 162.
- Bock, Henry L., assignor to W. E. Bock, Toledo, Ohio. Roller-bearing. No. 1,144,751; June 29; Gaz. vol. 215; p. 1408.
- Bock, Herman F. (See Severin and Bock.)
- Bock, John V., *et al.* (See Erickson, Arthur F., assignor.)
- Bock, Victor E., Pharr, Tex. Train-stopping apparatus. No. 1,163,502; Dec. 7; Gaz. vol. 221; p. 263.

Alphabetical list of patentees—Continued.

- Bock, William A., assignor to W. H. Miner, Chicago, Ill. Rail-anchor. No. 1,126,694; Feb. 2; Gaz. vol. 211; p. 9.
- Bock, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,153,671; Sept. 14; Gaz. vol. 218; p. 500.
- Bock, William E. (See Rock, Henry L., assignor.)
- Bock, William E., Toledo, Ohio. Spring-frame for motor-driven vehicles. No. 1,138,181; May 4; Gaz. vol. 214; p. 162.
- Bock, William E., Toledo, Ohio. Stabilizing mechanism for vehicle running-gear. No. 1,138,183; May 4; Gaz. vol. 214; p. 162.
- Bock, William E., Toledo, Ohio. Vehicle drive mechanism. No. 1,144,752; June 29; Gaz. vol. 215; p. 1408.
- Bock, William E., Toledo, Ohio. Machine for truing worms. No. 1,159,739; Nov. 9; Gaz. vol. 220; p. 498.
- Bockelman, Frederick, New York, N. Y. Shower-bath body. No. 1,128,097; Feb. 9; Gaz. vol. 211; p. 543.
- Bockelman, Martin F., Nashville, Kans. Sewing-machine attachment. No. 1,150,330; Aug. 17; Gaz. vol. 217; p. 824.
- Bockhoff, William F., assignor to National Automatic Tool Company, Richmond, Ind. Universal joint. No. 1,143,596; June 15; Gaz. vol. 215; p. 956.
- Bockhoff, William F., assignor to National Automatic Tool Company, Richmond, Ind. Sight-feed oiler. No. 1,150,988; Aug. 24; Gaz. vol. 217; p. 1109.
- Bocock, Ulysses J., Kimmundly, Ill. Ensilage-packing device. No. 1,148,569; Aug. 3; Gaz. vol. 217; p. 31.
- Bocorselski, Frank E., Richmond, Va. Fuel-feeder. No. 1,131,988; Mar. 16; Gaz. vol. 212; p. 819.
- Bocorselski, Frank E., Richmond, Va. Fuel-feeder. No. 1,131,989; Mar. 16; Gaz. vol. 212; p. 819.
- Bocorselski, Frank E., Richmond, Va. Drill-chuck. No. 1,131,990; Mar. 16; Gaz. vol. 212; p. 819.
- Bocorselski, Frank E., Richmond, Va. Rotary drill. No. 1,131,991; Mar. 16; Gaz. vol. 212; p. 819.
- Bodde, Theodore, Brant Rock, Mass. Submarine signaling. No. 1,152,697; Sept. 7; Gaz. vol. 218; p. 117.
- Bodde, Theodore, Westfield, N. J., assignor to Hall Switch & Signal Company, New York, N. Y. Black-signal system. No. 1,164,330; Dec. 14; Gaz. vol. 221; p. 603.
- Boddy, Edward V., Artesia, N. Mex. Coin-controlled mechanism for vending-machines and the like. No. 1,139,477; May 18; Gaz. vol. 214; p. 691.
- Boddy, George M., and W. Carroll, assignors to Boddy Lifesaving Appliances (1914) Limited, London, England. Marine life-saving jacket. No. 1,162,214; Nov. 30; Gaz. vol. 220; p. 1516.
- Boddy Lifesaving Appliances (1914) Limited. (See Boddy and Carroll, assignors.)
- Bode, Charles, assignor to himself and A. S. Aloe Instrument Company, St. Louis, Mo. Support for welding blanks of bifocal lenses. No. 1,126,365; Jan. 26; Gaz. vol. 210; p. 1233.
- Bode, Peter J., assignor of one-eighth to F. K. Heuser, St. Louis, Mo. Air-pump. No. 1,148,073; July 27; Gaz. vol. 216; p. 1152.
- Bodeen, John W., Greeley, assignor of one-half to O. V. Johnson, Denver, Colo. Repair-counter for shoes. No. 1,136,764; Apr. 20; Gaz. vol. 213; p. 1033.
- Boden, Clarence S., San Francisco, Cal., assignor to Boden's Automatic Hammer Co. Automatic hammer. No. 1,162,677; Nov. 30; Gaz. vol. 220; p. 1671.
- Boden, Clarence S., San Francisco, Cal., assignor to Boden's Automatic Hammer Co. Automatic hammer. No. 1,162,678; Nov. 30; Gaz. vol. 220; p. 1671.
- Bodendick, Henry W., Springfield, Ill. Street-car fender. No. 1,154,686; Sept. 28; Gaz. vol. 218; p. 915.
- Bodene, John, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Animal shears or clipper. No. 1,124,843; Jan. 12; Gaz. vol. 210; p. 621.
- Bodenhoff, George O., assignor of one-half to A. J. Kroenert, Portland, Oreg. Take-up mechanism for wheels. No. 1,150,989; Aug. 24; Gaz. vol. 217; p. 1109.
- Boden's Automatic Hammer Co. (See Boden, Clarence S., assignor.)
- Bodenschatz, John G. (See Kennedy, Martin, assignor.)
- Bodensiek, Gottfried O., et al. (See Bodensiek, Jennie M., assignor.)
- Bodensiek, Jennie M., assignor of one-third to G. O. Bodensiek, New York, and one-third to F. Brooker, Brooklyn, N. Y. Bust-reducer. No. 1,126,366; Jan. 26; Gaz. vol. 210; p. 1234.
- Bodensiek, Jennie M., assignor of one-third to G. O. Bodensiek, New York, and one-third to F. Brooker, Brooklyn, N. Y. Hip-reducer. No. 1,126,367; Jan. 26; Gaz. vol. 210; p. 1234.
- Bodensiek, Jennie M., assignor of one-third to G. O. Bodensiek, New York, and one-third to F. Brooker, Brooklyn, N. Y. Invalid's corset. No. 1,152,595; Sept. 7; Gaz. vol. 218; p. 80.
- Bodenstein, Jacob, Herkimer, N. Y. Filling device. No. 1,160,104; Nov. 9; Gaz. vol. 220; p. 628.
- Bodenstein, Jacob, Herkimer, N. Y. Latch mechanism for furniture. No. 1,160,105; Nov. 9; Gaz. vol. 220; p. 628.
- Bodine, Henry M., Wichita, Kans. Railway-tie and brace. No. 1,132,155; Mar. 16; Gaz. vol. 212; p. 879.
- Bodine, Murray R., Muner, Pa. Support for drawers. No. 1,164,571; Dec. 14; Gaz. vol. 221; p. 686.
- Bodinger, Jacob H., New York, N. Y. Steam-boiler. No. 1,144,995; July 6; Gaz. vol. 216; p. 5.
- Bodinson, Lars W., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,136,928; Apr. 27; Gaz. vol. 213; p. 1126.
- Bodinson, Lars W., assignor to The American Well Works, Aurora, Ill. Deep-well pump. No. 1,152,479; Sept. 7; Gaz. vol. 218; p. 35.
- Bodinson, Lars W., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,155,401; Oct. 5; Gaz. vol. 219; p. 27.
- Bodker, Albert J., and W. H. Ponchatoula, La. Collapsible crate. No. 1,123,227; Jan. 5; Gaz. vol. 210; p. 9.
- Bodker, William H. (See Bodker, Albert J. and W. H.)
- Bodkin, John A., New York, N. Y. Rail-anchor. No. 1,146,994; July 20; Gaz. vol. 216; p. 748.
- Bodkin, Morris A., New York, N. Y. Reversible rail-bender. No. 1,136,463; Apr. 20; Gaz. vol. 213; p. 925.
- Bodmer, Christian, assignor to Stanley Rule & Level Co. New Britain, Conn. Chuck. No. 1,132,550; Mar. 23; Gaz. vol. 212; p. 1070.
- Bodmer, Christian, assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 1,134,072; Mar. 30; Gaz. vol. 212; p. 1650.
- Bodwell, Stillman A. (See Bacon, Nathaniel, assignor.)
- Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Hydrocarbon-burner. No. 1,151,560; Aug. 31; Gaz. vol. 217; p. 1349.
- Boeck, Percy A., assignor to Norton Company, Worcester, Mass. Electric furnace. No. 1,158,971; Nov. 2; Gaz. vol. 220; p. 195.
- Boeck, Percy A., assignor to Norton Company, Worcester, Mass. Electric furnace. No. 1,158,972; Nov. 2; Gaz. vol. 220; p. 195.
- Boeck, William C., Hartford, Wis., assignor to G. Sotdorus, Glen Rock, Pa. Condiment-shaker. No. 1,123,228; Jan. 5; Gaz. vol. 210; p. 9.
- Boecker, Friedrich, Hohenlimburg, Wilhelmshöhe, Germany. Merry-go-round. No. 1,143,352; June 15; Gaz. vol. 215; p. 872.
- Boedecker, Friedrich, Berlin-Mariendorf, assignor to J. D. Riedel Aktiengesellschaft, Berlin-Brandenburg, Germany. Compounds of hexamethylene-tetramin. No. 1,133,916; Mar. 30; Gaz. vol. 212; p. 1599.
- Boedtscher, Franz A., Bergenfeld, N. J. Elevator-indicator system. No. 1,165,383; Dec. 28; Gaz. vol. 221; p. 1049.
- Boehler, Wilhelm, Fort Wayne, assignor to L. E. Pontius, Columbia City, Ind. Shaft-bearing. No. 1,158,778; Nov. 2; Gaz. vol. 220; p. 129.
- Boehm, Oscar A., New York, N. Y. Pocket-lamp. No. 1,127,856; Feb. 9; Gaz. vol. 211; p. 459.
- Boehm, Wilhelm, Charlottenburg, Germany. Manufacturing porcelain insulators. No. 1,128,747; Feb. 16; Gaz. vol. 211; p. 816.
- Boehm, Wilhelm, Berlin, Germany. Device for sterilizing medical instruments. No. 1,129,271; Feb. 23; Gaz. vol. 211; p. 1037.
- Boehne, Ralph L., Doniphan township, Hall county, Nebr. Harrow. No. 1,127,169; Feb. 2; Gaz. vol. 211; p. 178.
- Boehringer & Soehne, C. F. (See Buchner, Max, assignor.)
- Boehringer & Soehne, C. F. (See Funk, Casimir, assignor.)
- Boekel, Julius, and J. H. Scherer, Philadelphia, Pa., assignors to said Boekel. Thermostat. No. 1,141,605; June 1; Gaz. vol. 215; p. 185.
- Boekel, Julius, and J. H. Scherer, Philadelphia, Pa., assignors to said Boekel. Bacterial incubator. No. 1,145,054; July 6; Gaz. vol. 216; p. 29.
- Boekenkamp, Edward, assignor to American Stove Company, St. Louis, Mo. Means for raising and lowering combustion-tubes. No. 1,128,937; Feb. 16; Gaz. vol. 211; p. 885.
- Boekenkamp, Edward, assignor to American Stove Company, St. Louis, Mo. Knockdown oven. No. 1,143,028; June 15; Gaz. vol. 215; p. 757.
- Boeing, Ernest, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Rope-drive elevator. No. 1,132,761; Mar. 23; Gaz. vol. 212; p. 1149.
- Boenning, William M., Manitowoc, Wis. Adjustable gage mechanism. No. 1,125,261; Jan. 19; Gaz. vol. 210; p. 806.
- Boensch, William M., and T. B. Weaver, San Francisco, Cal. Warehouse-truck. No. 1,126,368; Jan. 26; Gaz. vol. 210; p. 1234.
- Boerner, Arno, Paris, France. Airship. No. 1,160,095; Nov. 9; Gaz. vol. 220; p. 624.
- Boerner, Emil G., Washington, D. C. Device for sampling, mixing, and blending granular substances. No. 1,160,036; Nov. 9; Gaz. vol. 220; p. 604.
- Boerner, Emile C. (See Ward, Remsen, and Boerner.)
- Boerner, Hermann, St. Louis, Mo. Device for honing razors. No. 1,133,256; Mar. 30; Gaz. vol. 212; p. 1364.
- Boerner, Hermann, assignor to W. D. Mahaney, St. Louis, Mo. Vending-machine. No. 1,141,170; June 1; Gaz. vol. 215; p. 28.
- Boerner, Rudolf. (See Santos and Boerner.)
- Boero, Joseph, New York, N. Y. Crushing apparatus. No. 1,152,141; Aug. 31; Gaz. vol. 217; p. 1550.

Alphabetical list of patentees—Continued.

- Boero, Joseph, New York, N. Y., assignor to Stedman's Foundry & Machine Works, Aurora, Ind. Pulverizer. No. 1,130,251; Mar. 2; Gaz. vol. 212; p. 142.
- Boerries, Frédéric S., Paris, France. Vibration-absorbing support. No. 1,139,158; May 11; Gaz. vol. 214; p. 544.
- Boesch, Herman R., New York, N. Y. Cleaning attachment for fire tubular boilers. No. 1,164,914; Dec. 21; Gaz. vol. 221; p. 848.
- Boesch, John E., Vancouver, British Columbia, Canada. Automatic arc-lamp cut-out. No. 1,147,700; July 27; Gaz. vol. 216; p. 1020.
- Boesch, John E., Vancouver, British Columbia, Canada. Automatic lamp cut-out. No. 1,147,701; July 27; Gaz. vol. 216; p. 1020.
- Boettiger, Richard F., Aberdeen, Wash. Electric stove. No. 1,143,883; June 22; Gaz. vol. 215; p. 1078.
- Bogan, Arthur H., Jersey City, N. J. Fibrous ring and making the same. No. 1,146,125; July 13; Gaz. vol. 216; p. 422.
- Bogdanffy, Alexander, New York, N. Y. Machine for manufacturing wood top corks. No. 1,132,238; Mar. 16; Gaz. vol. 212; p. 910.
- Bogdanffy, Alexander, New York, N. Y. Machine for the manufacture of bottle-closures. No. 1,136,398; Apr. 20; Gaz. vol. 213; p. 903.
- Bogdanffy, Alexander, New York, N. Y. Heated stopper. No. 1,162,443; Nov. 30; Gaz. vol. 220; p. 1505.
- Bogdanffy, Alexander, New York, assignor to International Cork Company, Brooklyn, N. Y. Feeding attachment for cork-cutting machines. No. 1,125,923; Jan. 26; Gaz. vol. 210; p. 1071.
- Bogdanffy, Alexander, New York, assignor to International Cork Company, Brooklyn, N. Y. Manufacturing bottle-closures. No. 1,143,353; June 15; Gaz. vol. 215; p. 872.
- Bogdanffy, Alexander, New York, assignor to The International Cork Company, Brooklyn, N. Y. Crown-cork-sorting machine. No. 1,148,005; July 27; Gaz. vol. 216; p. 1127.
- Boge, John H., Denver, Colo. Lawn-edger. No. 1,163,882; Dec. 14; Gaz. vol. 221; p. 447.
- Bogen, Louis E., and L. C. Nichols, Milwaukee, Wis., assignors, by mesne assignments, to Allis-Chalmers Manufacturing Company, System of distribution. No. 1,150,416; Aug. 17; Gaz. vol. 217; p. 853.
- Bogenschutz, William C., Kalamazoo, Mich. Flask. No. 1,134,368; Apr. 6; Gaz. vol. 213; p. 104.
- Roggs, Arthur V. (See MacLennan, Malcolm J., assignor.)
- Boggs, Atwood L. (See Riley, Lester S., assignor.)
- Boggs, Frank, Atlanta, N. Y. Double-belt potato-sorter. No. 1,136,584; Apr. 20; Gaz. vol. 213; p. 969.
- Bogle, Chesley M. (See Conradi, Edward W., assignor.)
- Bogle, John F., Rushnell, Nehr, Pipe-lifter. No. 1,154,687; Sept. 28; Gaz. vol. 218; p. 916.
- Bognár, John, Renovo, Pa. Torpedo-protecting net for ships. No. 1,164,778; Dec. 21; Gaz. vol. 221; p. 800.
- Bohan, John J., Nanticoke, Pa. Hat-pin protector. No. 1,148,746; Aug. 3; Gaz. vol. 217; p. 95.
- Bohan, William J., St. Paul, Minn. Electric-light fixture. No. 1,156,585; Oct. 12; Gaz. vol. 219; p. 464.
- Bohan, William J., St. Paul, Minn. Electrical switch-actuating mechanism. No. 1,157,076; Oct. 19; Gaz. vol. 219; p. 666.
- Bohanan, Franklin L. (See Hawley and Bohanan.)
- Bohannon, Nathaniel, Chase City, Va. Door-brace. No. 1,154,087; Sept. 21; Gaz. vol. 218; p. 681.
- Bohleber, William, assignor to W. J. Spain, New York, N. Y. Closure. No. 1,123,670; Jan. 5; Gaz. vol. 210; p. 162.
- Bohliz, Martin, St. Paul, Minn. Tin-forming device for billiard-cues and the like. No. 1,123,472; Jan. 5; Gaz. vol. 210; p. 94.
- Bohliz, Martin, St. Paul, Minn. Tin-forming device for billiard-cues and the like. No. 1,159,891; Nov. 9; Gaz. vol. 220; p. 553.
- Bohlman, George J., Everett, assignor to American Water Supply Company of New England, Boston, Mass. Holder for drinking-cups. No. 1,136,882; Mar. 9; Gaz. vol. 212; p. 397.
- Bohlman, George J., Medford, assignor to American Water Supply Company of New England, Boston, Mass. Apparatus for making paper cups with rolled edges. No. 1,155,787; Oct. 5; Gaz. vol. 219; p. 161.
- Bohlman, George J., Medford, assignor to American Water Supply Company of New England, Boston, Mass. Bottle-closure. No. 1,161,797; Nov. 23; Gaz. vol. 220; p. 1324.
- Bohmann, Joseph, Chicago, Ill. Stringed musical instrument. No. 1,125,262; Jan. 19; Gaz. vol. 210; p. 806.
- Bohmann, Joseph, Chicago, Ill. Musical string instrument. No. 1,128,217; Feb. 9; Gaz. vol. 211; p. 584.
- Bohmann, Joseph, Chicago, Ill. Auxiliary vibrator for guitars, &c. No. 1,128,218; Feb. 9; Gaz. vol. 211; p. 584.
- Bohmann, Joseph, Chicago, Ill. Tuning-peg for musical instruments. No. 1,135,347; Apr. 13; Gaz. vol. 213; p. 491.
- Bohmach, Jennie. (See Corbin, Elfreda J., assignor.)
- Böhme, Eugen R. (See Marcus and Böhme.)
- Böhmer, Max, Chemnitz, Germany. Combining-machine. No. 1,164,458; Dec. 14; Gaz. vol. 221; p. 649.
- Bohn, Gebhard C., St. Paul, Minn. Bulkhead. No. 1,151,754; Aug. 31; Gaz. vol. 217; p. 1415.
- Bohn, René, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Bucking vegetable material. No. 1,156,048; Oct. 12; Gaz. vol. 219; p. 278.
- Bohner, William H., assignor to C. B. Atkin, Knoxville, Tenn. Roundtop-work construction. No. 1,132,156; Mar. 16; Gaz. vol. 212; p. 879.
- Bohon, Emile, assignor to J. Sloan and E. Bohon, Paris, France. Production of soluble nitrogen compounds from organic substances of animal origin. No. 1,138,348; May 4; Gaz. vol. 214; p. 221.
- Bohr, Henry B., administrator. (See Bohr, Nicholas C.)
- Bohr, Mathias F., Stickney, S. D. Locking device. No. 1,143,029; June 15; Gaz. vol. 215; p. 757.
- Bohr, Nicholas C. (See Nicholson, Norman J., assignor.)
- Bohr, Nicholas C., deceased, Boston, Mass.; H. B. Bohr, administrator. Shoe-sole-tempering device. No. 1,158,101; Oct. 26; Gaz. vol. 219; p. 1089.
- Bohringer, Arthur J., Hammersmith, assignor to The Fenning Film Service, Ltd., London, England. Cinematograph film-inspection or home projection apparatus. No. 1,128,841; Feb. 16; Gaz. vol. 211; p. 850.
- Boies, Frank S., et al. (See Neller, Albert H., assignor.)
- Boillot, Elmer. (See Fillmore and Boillot.)
- Boirault, Louis, Paris, France. Pipe-coupling device for railway and tram cars. No. 1,127,170; Feb. 2; Gaz. vol. 211; p. 178.
- Boirault, Louis, Paris, France. Pipe-coupling device for railway and tram cars. No. 1,155,876; Oct. 5; Gaz. vol. 219; p. 102.
- Bois, Joseph A. C. (See Reno and Bois.)
- Boissier, Edgar. (See Henry, George W., assignor.)
- Boissier, Hermann R., Great Neck, N. Y. Electroplating device. No. 1,154,604; Sept. 28; Gaz. vol. 218; p. 886.
- Boisvert, Philippe, Lowell, assignor of one-fourth to E. Maille, Dracut, and one-fourth to T. Fortier, Lowell, Mass. Tension device for loom-shuttles. No. 1,162,215; Nov. 30; Gaz. vol. 220; p. 1516.
- Boje, Rudolf W., Jr., Buffalo, N. Y. Hose-coupling. No. 1,148,824; Aug. 3; Gaz. vol. 217; p. 122.
- Bokop, Frederick A. (See Bokop, Henry D. and F. A.)
- Bokop, Henry D., Defiance, Ohio. Bottle crate or case. No. 1,132,157; Mar. 16; Gaz. vol. 212; p. 879.
- Bokop, Henry D. and F. A., Defiance, Ohio. Harrow. No. 1,128,285; Feb. 16; Gaz. vol. 211; p. 659.
- Bokulic, Nikola, et al. (See Grozej, Ivan, assignor.)
- Bokum, William F. (See Hill and Bokum.)
- Bolam, Thomas H., et al. (See Newman, Arthur S., assignor.)
- Boland, Ed, Big Creek, Miss. Insect-destroyer. No. 1,133,357; Mar. 30; Gaz. vol. 212; p. 1400.
- Boland, Francis P., Providence, R. I. Drying jewelry. No. 1,154,167; Sept. 21; Gaz. vol. 218; p. 707.
- Boland, Francis P., Providence, R. I. Apparatus for drying jewelry and the like. No. 1,163,205; Dec. 7; Gaz. vol. 221; p. 165.
- Boland, Gustave, San Jose, Cal. Spring-hinge. No. 1,155,702; Oct. 5; Gaz. vol. 219; p. 132.
- Boland, Jefferson D., Eureka, Mo. Combined reel-carrier and wire-stretcher. No. 1,152,273; Aug. 31; Gaz. vol. 217; p. 1595.
- Bolde, Henry, New York, N. Y., assignor to General Optical Company, Inc. Trifocal lens. No. 1,158,102; Oct. 26; Gaz. vol. 219; p. 1090.
- Bolding, William D. (See Willoughby, Alford P., assignor.)
- Bolding, William D. (See Willoughby and Bolding.)
- Boldizzoni, Teobaldo, and P. Bosio, New York, N. Y., assignors of one-third to said Bosio, one-third to E. Corino, West Hoboken, N. J., and one-third to E. Presto and B. Giannotti, New York, N. Y. Music-leaf turner. No. 1,150,740; Aug. 17; Gaz. vol. 217; p. 965.
- Bolduc, George H., Detroit, Mich. Car-fender. No. 1,128,577; Feb. 16; Gaz. vol. 211; p. 758.
- Bolen, Emerson A., assignor to North Western Novelty Company, Morris, Ill. Coin-controlled vending-machine. No. 1,140,438; May 25; Gaz. vol. 214; p. 1064.
- Bolen, Emerson A., assignor to North Western Novelty Company, Morris, Ill. Vending-machine. No. 1,144,100; June 22; Gaz. vol. 215; p. 1155.
- Bolens, Harry W., Port Washington, Wis. Crank-casing. No. 1,143,098; June 15; Gaz. vol. 215; p. 782.
- Boley, Benjamin, New York, N. Y. Case for demijohns. No. 1,162,444; Nov. 30; Gaz. vol. 220; p. 1595.
- Boley, John D. (See Story, Hudson F., assignor.)
- Boley, Oland, Somerset, Mich. Closure for milk-cans. No. 1,163,804; Dec. 14; Gaz. vol. 221; p. 421.
- Bolger, Robert S., assignor of one-half to R. F. McCabe, Richmond Hill, N. Y. Exercising-couch. No. 1,158,779; Nov. 2; Gaz. vol. 220; p. 130.
- Bolger, Thomas P., Gloucester, Mass. Refrigerator. No. 1,123,984; Jan. 5; Gaz. vol. 210; p. 266.
- Bolger, Thomas P., Gloucester, Mass. Flower-box. No. 1,133,836; Mar. 30; Gaz. vol. 212; p. 1572.
- Bolick, Jerome, Conover, N. C. Vehicle wheel-mounting. No. 1,132,825; Mar. 23; Gaz. vol. 212; p. 1174.
- Bolln, Charles D., and L. E. More, assignors to National Thermo Company, St. Louis, Mo. Oven-thermometer. No. 1,141,926; June 8; Gaz. vol. 215; p. 332.

Alphabetical list of patentees—Continued.

- Bolin, Floyd C. (See Hale, Leigh E., assignor.)
- Bolin, Richard H., Kane, assignor, by mesne assignments, to Consolidated Machine Company, Bradford, Pa. Glass-drawing furnace. No. 1,163,583; Dec. 7; Gaz. vol. 221; p. 297.
- Bolin, Richard H., Kane, assignor, by mesne assignments, to Consolidated Machine Company, Bradford, Pa. Glass-furnace. No. 1,163,584; Dec. 7; Gaz. vol. 221; p. 297.
- Bolin, Richard H., Kane, assignor, by mesne assignments, to Consolidated Machine Company, Bradford, Pa. Glass-drawing furnace. No. 1,163,585; Dec. 7; Gaz. vol. 221; p. 297.
- Bolln, Sven G., Kansas City, Mo. Metal door. No. 1,138,837; May 11; Gaz. vol. 214; p. 431.
- Bolln, William F. (See Beaver, Francis M., assignor.)
- Bolling, Elmer E., Indianapolis, Ind. Coin-controlled vending-cabinet. No. 1,134,509; Apr. 6; Gaz. vol. 213; p. 155.
- Bolling, John W., and J. F. Cline, Nashville, Mo. Tool. No. 1,125,945; Jan. 26; Gaz. vol. 210; p. 1080.
- Bollinger, Irvin L., deceased, Chicago, Ill.; R. K. Page, sole heir. Cattle-guard. No. 1,156,856; Oct. 12; Gaz. vol. 219; p. 560.
- Boller, Alfred P., Jr. (See Robinson and Boller.)
- Bollerup, Jens J. (See Moller and Bollerup.)
- Bollerup, Jens J., Lakeside, Nebr. Sweep-rake. No. 1,127,171; Feb. 2; Gaz. vol. 211; p. 179.
- Bolles, Percy S., Fort Worth, Tex. Chase for printers. No. 1,144,458; June 29; Gaz. vol. 215; p. 1308.
- Bolling, Baltzar E., assignor to J. K. Stewart Manufacturing Company, Chicago, Ill. Parcel-post-rate indicator. No. 1,153,539; Sept. 14; Gaz. vol. 218; p. 456.
- Bölling, Friedrich, Oberursel, assignor of one-half to "Prometheus" Fabrik Elektrischer Koch- und Herzaparate Gesellschaft mit beschränkter Haftung, Frankfurt-on-the-Main, Germany. Insulating material. No. 1,123,985; Jan. 5; Gaz. vol. 210; p. 267.
- Bollinger, Henry W., Altoona, Pa. Headlight-adjuster for automobiles. No. 1,133,224; Mar. 23; Gaz. vol. 212; p. 1316.
- Bollinger, James, Whitefish, Mont. Dirigible lamp for automobiles. No. 1,155,877; Oct. 5; Gaz. vol. 219; p. 193.
- Bollinger, Morgan D., San Jose, Cal. Adjustable side-hill wagon. No. 1,151,561; Aug. 31; Gaz. vol. 217; p. 1349.
- Bollwinkel, William C., and E. C. Kline, Norwood, assignors to American Bankers Safety Company, Cincinnati, Ohio. Safe. No. 1,127,956; Feb. 9; Gaz. vol. 211; p. 495.
- Bolson, Abraham L., Mason, Nev. Adjusting device for rock-drills. No. 1,155,034; Sept. 28; Gaz. vol. 218; p. 1031.
- Bolt, James P., Keggley, W. Va. Safety train-line controller. No. 1,128,098; Feb. 9; Gaz. vol. 211; p. 544.
- Boltless Arch Bar Truck Inc. (See Sherman, Clifton W., assignor.)
- Bolton, Edwin, Coventry, England. Locking device for nuts and the like. No. 1,124,388; Jan. 12; Gaz. vol. 210; p. 457.
- Bolton, Elizabeth A. (See Gray, Tom F., assignor.)
- Bolton, James, Brush, Colo. Road-drag. No. 1,127,380; Feb. 2; Gaz. vol. 211; p. 249.
- Bolton, Joseph, assignor of one-half to J. Ryan, Jackson, Nebr. Fruit-picker. No. 1,134,099; Apr. 6; Gaz. vol. 213; p. 6.
- Bolton, Richard M., Chicago, Ill. Gas-dispensing device. No. 1,158,780; Nov. 2; Gaz. vol. 220; p. 130.
- Bolton, William R., Huntington, Ind., assignor to United Shoe Machinery Company, Paterson, N. J. Stitch-down-welt guide. No. 1,158,434; Nov. 2; Gaz. vol. 220; p. 7.
- Boltz, George, Amy, Kans. Power-generator. No. 1,141,308; June 1; Gaz. vol. 215; p. 79.
- Boltz, George, Dighton, Kans. Rotary engine. No. 1,151,562; Aug. 31; Gaz. vol. 217; p. 1350.
- Bolus, Glenn H. (See Starkey and Bolus.)
- Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Mine section insulator switch. No. 1,129,062; Feb. 23; Gaz. vol. 211; p. 963.
- Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Suspension device for trolley-wires. No. 1,138,184; May 4; Gaz. vol. 214; p. 163.
- Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wheel mount. No. 1,138,723; May 11; Gaz. vol. 214; p. 389.
- Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Lock-hanger for trolley-wires. No. 1,142,394; June 8; Gaz. vol. 215; p. 498.
- Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire pick-up. No. 1,165,385; Dec. 28; Gaz. vol. 221; p. 1050.
- Boman, Claes W., Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Pen and pencil clip. No. 1,153,754; Sept. 14; Gaz. vol. 218; p. 529.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,658; Mar. 16; Gaz. vol. 212; p. 698.
- Bommer, Emil, New York, N. Y. Spring-hinge for doors. No. 1,131,659; Mar. 16; Gaz. vol. 212; p. 698.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,660; Mar. 16; Gaz. vol. 212; p. 699.
- Bommer, Emil, New York, N. Y. Double-acting spring-hinge. No. 1,131,661; Mar. 16; Gaz. vol. 212; p. 699.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,662; Mar. 16; Gaz. vol. 212; p. 700.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,663; Mar. 16; Gaz. vol. 212; p. 700.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,664; Mar. 16; Gaz. vol. 212; p. 700.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,665; Mar. 16; Gaz. vol. 212; p. 700.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,666; Mar. 16; Gaz. vol. 212; p. 701.
- Bommer, Emil, New York, N. Y. Spring-hinge. No. 1,131,667; Mar. 16; Gaz. vol. 212; p. 701.
- Bon, Frank J. (See Stahl, Karl E., assignor.)
- Bonaly, Louis F., Kickapoo township, Leavenworth county, Kans. Jack. No. 1,133,358; Mar. 30; Gaz. vol. 212; p. 1400.
- Bonaly, Louis F., Kickapoo township, Leavenworth county, Kans., assignor of one-half to F. M. Planck, Kansas City, Mo. Door-lock. No. 1,164,982; Dec. 21; Gaz. vol. 221; p. 872.
- Bonaly, Victor G. (See Zachert and Brangier, assignors.)
- Bonamini, Conte Decio, heir at law. (See Beer, Attilio.)
- Bonard, Marcel J. L. P., Montreal, Quebec, Canada. Safety apparatus for submarines. No. 1,156,970; Oct. 19; Gaz. vol. 219; p. 628.
- Bonastre Llopert, Ramón, Cordoba, Argentina. Production of zinc sulfate. No. 1,140,354; May 25; Gaz. vol. 214; p. 1033.
- Bonastre Llopert, Ramón, Cordoba, Argentina. Production of zinc sulfate. No. 1,142,795; June 15; Gaz. vol. 215; p. 675.
- Bonawitz, George. (See Bowen, David J., assignor.)
- Bond, Alice B., Visalia, Cal. Fireless brooder. No. 1,149,019; Aug. 3; Gaz. vol. 217; p. 189.
- Bond, Austin, Liscard, England. Meat-holder for slicing-machines. No. 1,147,923; July 27; Gaz. vol. 216; p. 1099.
- Bond, Bennett, Los Angeles, Cal. Vehicle demonstrating and testing device. No. 1,155,126; Sept. 28; Gaz. vol. 218; p. 1066.
- Bond, Edgar T., Chicago, Ill. Foldable crate. No. 1,127,582; Feb. 9; Gaz. vol. 211; p. 360.
- Bond Foundry and Machine Company. (See Condé, Charles A., assignor.)
- Bond, George T., Huntington, W. Va. Flexible shaft. No. 1,157,148; Oct. 19; Gaz. vol. 219; p. 692.
- Bond, Jayson K., assignor of one-half to K. W. Jacobs, Milwaukee, Wis. Fender for automobiles. No. 1,136,998; Apr. 27; Gaz. vol. 213; p. 1152.
- Bond, Jayson K., assignor of one-half to K. W. Jacobs, Milwaukee, Wis. Automobile-fender. No. 1,160,247; Nov. 16; Gaz. vol. 220; p. 731.
- Bond, William A., Lynnfield, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-support. No. 1,161,832; Nov. 30; Gaz. vol. 220; p. 1382.
- Bondurant, Roy E. (See Cole and Bondurant.)
- Bondy, Joseph L., Chicago, Ill. Fence. No. 1,136,999; Apr. 27; Gaz. vol. 213; p. 1153.
- Bonell, Lawrence, Chicago, Ill. Sewing-machine. No. 1,147,479; July 20; Gaz. vol. 216; p. 917.
- Bonenberger, George, assignor to Steel Scaffolding Company, Evansville, Ind. Trestle-scaffold. No. 1,138,838; May 11; Gaz. vol. 214; p. 431.
- Bonenberger, George, and J. R. Goodwin, assignors to Steel Scaffolding Company, Evansville, Ind. Folding bracket-scaffold. No. 1,125,051; Jan. 19; Gaz. vol. 210; p. 730.
- Boner, Johann H., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing chromium salts. No. 1,157,668; Oct. 26; Gaz. vol. 219; p. 937.
- Bones, J. W. (See Reed, Thomas B., assignor.)
- Bong, John M., Milwaukee, Wis. Nut-lock. No. 1,149,329; Aug. 10; Gaz. vol. 217; p. 404.
- Bongner, Jacob, et al. (See Cowgill, Orph W., assignor.)
- Bonham, Guy L., Dorranceton, Pa. Train-pipe coupling. No. 1,136,093; Apr. 20; Gaz. vol. 213; p. 794.
- Bonham, Guy L., West Hartford, Conn. Spring-motor brake. No. 1,143,030; June 15; Gaz. vol. 215; p. 757.
- Bonham, Guy L., West Hartford, Conn. Revolving safety-razor and massage mechanism. No. 1,158,781; Nov. 2; Gaz. vol. 220; p. 130.
- Bonham, Tom B. (See Edey, Charles E. C., assignor.)
- Bonhard, Alfred M., Cleveland, Ohio. Bed. No. 1,156,833; Oct. 12; Gaz. vol. 219; p. 550.
- Bonime, Albert, assignor to M. and L. Mandel, Chicago, Ill. Bag-lock. No. 1,157,364; Oct. 19; Gaz. vol. 219; p. 769.
- Bonn, Frank R., and B. D. Hamill, Salt Lake City, Utah. Bottle-closure. No. 1,163,805; Dec. 14; Gaz. vol. 221; p. 421.
- Bonnallie, Frederick J., Chester, England. Matrix device. No. 1,165,149; Dec. 21; Gaz. vol. 221; p. 931.
- Bonnell, Harry G., et al. (See Hoover, George S., assignor.)
- Bonnell, Russell, Olivers Mills, Pa. Cooler. No. 1,125,450; Jan. 19; Gaz. vol. 210; p. 874.
- Bonnell, William A., Brooklyn, N. Y. Conduit clamping plate and disk. No. 1,128,842; Feb. 16; Gaz. vol. 211; p. 850.
- Bonnell, William A., Brooklyn, N. Y. Connector. No. 1,138,074; May 4; Gaz. vol. 214; p. 124.

Alphabetical list of patentees—Continued.

- Bonnell, William A., Brooklyn, N. Y., assignor to Fountain Electrical Floor Box Corporation. Universal floor-box. No. 1,136,929; Apr. 27; Gaz. vol. 213; p. 1127.
- Bonner, James, Brooklandsville, and W. B. Walsh, Baltimore, Md. Street-sweeping machine. No. 1,149,893; Aug. 10; Gaz. vol. 217; p. 607.
- Bonner, Stephen T., Spokane, Wash. Flsh-hook. No. 1,152,698; Sept. 7; Gaz. vol. 218; p. 117.
- Bonner, William T., New York, N. Y. Liquid-circulator. No. 1,165,311; Dec. 21; Gaz. vol. 221; p. 985.
- Bonner, William T., assignor, by mesne assignments, to The Asbestos Brake Company, Trenton, N. J. Brake and brake-liner. No. 1,141,606; June 1; Gaz. vol. 215; p. 186.
- Bonnet, Lorenzo A., Chicago Heights, Ill. Stove. No. 1,163,206; Dec. 7; Gaz. vol. 221; p. 165.
- Bonney-Floyd Company, The. (See Dorsey, Walter A., assignor.)
- Bonnicksen, Bahne, Coventry, England. Speed-indicator and the like. No. 1,134,369; Apr. 6; Gaz. vol. 213; p. 104.
- Bonnot Company, The. (See Dorn, Charles A., assignor.)
- Bonnot Company, The. (See Schlub, Benjamin, assignor.)
- Bonoff, Charles A., New York, N. Y. Gown. No. 1,155,544; Oct. 5; Gaz. vol. 219; p. 78.
- Bonom, Alfred, Paterson, N. J. Clutch. No. 1,129,784; Feb. 23; Gaz. vol. 211; p. 1213.
- Bonzanigo, Carlo, Basel, Switzerland. Gate for locks, weirs, and the like. No. 1,136,765; Apr. 20; Gaz. vol. 213; p. 1033.
- Boogher, Archer, Roanoke, Va. Vacuum-cleaner. No. 1,144,931; June 29; Gaz. vol. 215; p. 1468.
- Bookmiller, E. E. (See Sullivan, John P., assignor.)
- Bookwalter, Miles L., and S. Saunooke, Altoona, Pa. Train-line couplings. No. 1,130,252; Mar. 2; Gaz. vol. 212; p. 142.
- Boomer, Hobert A., Indianapolis, Ind. Car-connector. No. 1,150,806; Aug. 17; Gaz. vol. 217; p. 988.
- Boon, William H. A., San Dimas, Cal. Bolt-lock. No. 1,137,569; Apr. 27; Gaz. vol. 213; p. 1357.
- Boone, Buel G., Gaston, S. C. Automatic wagon-oiler. No. 1,158,888; Nov. 2; Gaz. vol. 220; p. 169.
- Boone, Charles T., Kansas City, Mo. Plant-stand. No. 1,137,737; May 4; Gaz. vol. 214; p. 6.
- Boone, Enoch, assignor to Phoenix Horse Shoe Company. Poughkeepsie, N. Y. Making horseshoes and the like. No. 1,163,314; Dec. 7; Gaz. vol. 221; p. 202.
- Boone, John F., New York, N. Y. Self-dumping fresno scraper. No. 1,164,459; Dec. 14; Gaz. vol. 221; p. 649.
- Booraem, J. Francis. (See Rohmer, Gabriel E., assignor.)
- Booraem, John V. V. (See Jacquart, Bernard, assignor.)
- Booraem, Robert E., Fort Collins, Colo., assignor of one-fourth to W. H. Barker, New York, N. Y. Building material. No. 1,163,613; Dec. 7; Gaz. vol. 221; p. 308.
- Boorum & Pease Loose Leaf Book Company. (See Trussell, Emory A., assignor.)
- Boos, August N. E., New York, N. Y. Walter's controlling-check. No. 1,130,691; Mar. 2; Gaz. vol. 212; p. 297.
- Boos, Henry P., Minneapolis, Minn. Dental plate-holder. No. 1,140,566; May 25; Gaz. vol. 214; p. 1110.
- Booth, Alba C., Burlington, Vt. Tooth-brush. No. 1,155,878; Oct. 5; Gaz. vol. 219; p. 193.
- Booth, B. F. (See Grunendike, Edward B., assignor.)
- Booth, Charles G., and F. Sanks, Pomona, Cal. Vehicle-spring. No. 1,134,030; Mar. 30; Gaz. vol. 212; p. 1636.
- Booth, Charles W., Chicago, Ill. Car-door fastener. No. 1,130,470; Mar. 2; Gaz. vol. 212; p. 220.
- Booth Demountable Rim Company, The. (See Booth, William N., assignor.)
- Booth, Edgar and N. R. Halifax, England. By-pass for incandescent-electric-lamp circuits. No. 1,126,369; Jan. 26; Gaz. vol. 210; p. 1235.
- Booth, F. E. (See Hauber, August, assignor.)
- Booth, Henry S., Manchester, England. Calculating-machine. No. 1,133,917; Mar. 30; Gaz. vol. 212; p. 1599.
- Booth, Lionel B., Cambridge, England. Objective for photographic and like purposes. No. 1,156,743; Oct. 12; Gaz. vol. 219; p. 519.
- Booth, Louis C., Sheridan, Wyo., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Bullet. No. 1,124,279; Jan. 12; Gaz. vol. 210; p. 419.
- Booth, Lyman, Dixon, Ill. Resilient wheel. No. 1,123,671; Jan. 5; Gaz. vol. 210; p. 162.
- Booth, Norman E. (See Booth, Edgar and N. R.)
- Booth, Schellinger and Williams Company. (See Lepper, John G., assignor.)
- Booth, Thomas, Boise, Idaho. Fire-escape. No. 1,123,229; Jan. 5; Gaz. vol. 210; p. 9.
- Booth, Thomas B., Newton Center, Mass. Electrical receiving apparatus. No. 1,139,632; May 18; Gaz. vol. 214; p. 745.
- Booth, Thomas C., New York, N. Y. Attachment for collapsible tubes. No. 1,148,284; July 27; Gaz. vol. 216; p. 1227.
- Booth, William N., Detroit, Mich. Clamping device for demountable rims. No. 1,132,648; Mar. 23; Gaz. vol. 212; p. 1107.
- Booth, William N., assignor to The Booth Demountable Rim Company, Cleveland, Ohio. Demounting device. No. 1,146,301; July 13; Gaz. vol. 216; p. 483.
- Booth, William N., assignor to The Booth Demountable Rim Company, Cleveland, Ohio. Detachable marginal flange or ring for pneumatic-tire rims. No. 1,162,216; Nov. 30; Gaz. vol. 220; p. 1516.
- Booth, William N., Detroit, Mich., assignor to The Booth Demountable Rim Company, Cleveland, Ohio. Detachable tire-holding ring. No. 1,162,217; Nov. 30; Gaz. vol. 220; p. 1517.
- Booth, Zachariah E., New Bedford, Mass. Spinning and winding machine. No. 1,153,190; Sept. 14; Gaz. vol. 218; p. 329.
- Boots, Israel F., assignor of one-half to W. H. Albert, Hartford City, Ind. Fodder-squeezer. No. 1,146,047; July 13; Gaz. vol. 216; p. 396.
- Booty, Robert, assignor of one-half to W. White, Toronto, Canada. Dental flask-closing device. No. 1,165,937; Dec. 28; Gaz. vol. 221; p. 1243.
- Boozer, Albert E. (See Perry and Boozer.)
- Boozer, Arthur G., Jr., and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Bobbin-placing and bobbin-removing attachment for spinning-machines. No. 1,142,010; June 8; Gaz. vol. 215; p. 361.
- Boozer, Arthur G., Jr., and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Doffing-machine for spinning-frames. No. 1,142,011; June 8; Gaz. vol. 215; p. 362.
- Boozer, Arthur G., Jr., and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Doffing-machine for spinning-frames. No. 1,142,012; June 8; Gaz. vol. 215; p. 362.
- Boozer, Arthur G., Jr., and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Doffing-machine for spinning-frames. No. 1,142,013; June 8; Gaz. vol. 215; p. 363.
- Boozer, Arthur G., Jr., Greenville, and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Doffing-machine. No. 1,142,014; June 8; Gaz. vol. 215; p. 363.
- Boozer, Arthur G., Jr., Greenville, and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Doffing-machine. No. 1,142,015; June 8; Gaz. vol. 215; p. 363.
- Boozer, Arthur G., Jr., Greenville, and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Doffing-machine for spinning-frames. No. 1,142,747; June 8; Gaz. vol. 215; p. 616.
- Boozer, Arthur G., Jr., Greenville, and G. Hill, Tucapau, S. C., assignors to Barber-Colman Company, Rockford, Ill. Doffing-machine. No. 1,142,748; June 8; Gaz. vol. 215; p. 617.
- Bope, William P. (See Hudson and Bope.)
- Bopp, Gustave P., Kirkwood, Mo. Valve. No. 1,156,049; Oct. 12; Gaz. vol. 219; p. 278.
- Borch, Niels S., Copenhagen, Denmark. Nodulizing ores. No. 1,123,672; Jan. 5; Gaz. vol. 210; p. 162.
- Borchardt, Hugo, Charlottenburg, Germany. Toggle breech mechanism for automatic firearms. No. 1,147,780; July 27; Gaz. vol. 216; p. 1047.
- Borchardt, Hugo, Charlottenburg, Germany. Automatic firearm with toggle-joint. No. 1,160,831; Nov. 16; Gaz. vol. 220; p. 940.
- Borchardt, Reinholdt, South Kaukauna, Wis. Valve-gear. No. 1,137,112; Apr. 27; Gaz. vol. 213; p. 1194.
- Borchers, Wilhelm, and E. Thilges, Aachen, Germany. Separating iron and nickel from copper in certain ores and masses. No. 1,152,699; Sept. 7; Gaz. vol. 218; p. 117.
- Bordeaux, Foster J., assignor to Automatic Appliance Company, Boston, Mass. Starter for internal-combustion engines. No. 1,128,219; Feb. 9; Gaz. vol. 211; p. 585.
- Borden Company, The. (See Koehler, Fredrick G., assignor.)
- Borden Company, The. (See Nonneman, Ira W., assignor.)
- Borden, William A., Westport, Conn. Library book-stack. No. 1,165,566; Dec. 28; Gaz. vol. 221; p. 1112.
- Borden, William H., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,145,055; July 6; Gaz. vol. 216; p. 30.
- Börder, William N., Dunlap, Mo. Shock-absorber. No. 1,154,284; Sept. 21; Gaz. vol. 218; p. 748.
- Borders, Bert. (See Maschek, Henry, assignor.)
- Bordner, Charles S., Circleville, Kans. Chicken-brooder. No. 1,152,700; Sept. 7; Gaz. vol. 218; p. 118.
- Bordner, Vaiden, Elkhart, Ind. Fishing-reel. No. 1,139,252; May 11; Gaz. vol. 214; p. 576.
- Bordo, Lambert J., Hillside, Pa. Roller-feed governor. No. 1,150,013; Aug. 17; Gaz. vol. 217; p. 711.
- Bordson, John, et al. (See Bordson, Martin M., assignor.)
- Bordson, Martin M., deceased, A. B. Thorsrud, administrator, assignor to J. and M. Bordson, Black Earth, Wis. Gate-operating mechanism. No. 1,132,066; Mar. 16; Gaz. vol. 212; p. 846.
- Bordson, Melver, et al. (See Bordson, Martin M., assignor.)
- Bordwell, Lavern, New York, N. Y. Clothes-line reel. No. 1,147,599; July 20; Gaz. vol. 216; p. 958.

Alphabetical list of patentees—Continued.

- Boren, William E., Lakeview, Tex. Nut-lock. No. 1,128,748; Feb. 16; Gaz. vol. 211; p. 816.
- Borer, William, Evansville, Ind. Wrench. No. 1,164,164; Dec. 14; Gaz. vol. 221; p. 545.
- Borg & Beck Company, The. (See Beck, Marshall, assignor.)
- Borg & Beck Company, The. (See Borg, George W., assignor.)
- Borg, George W., Rock Island, assignor to The Borg & Beck Company, Moline, Ill. Friction-clutch. No. 1,131,769; Mar. 16; Gaz. vol. 212; p. 738.
- Borg, Hans, San Francisco, Cal. Wallet or purse. No. 1,165,746; Dec. 28; Gaz. vol. 221; p. 1178.
- Berge, Ole J., Davis township, Kittson county, Minn. Rivet-feeding mechanism. No. 1,132,826; Mar. 23; Gaz. vol. 212; p. 1174.
- Borgenicht, Louis, New York, N. Y. Dress. No. 1,149,619; Aug. 10; Gaz. vol. 217; p. 508.
- Borgersen, Herman L., Philadelphia, Pa. Printing-surface holder. No. 1,124,104; Jan. 5; Gaz. vol. 210; p. 307.
- Borgersen, Herman L., Philadelphia, Pa. Printing-surface holder. No. 1,129,630; Feb. 23; Gaz. vol. 211; p. 1163.
- Borgeson, Charles J., Syracuse, N. Y. Centering-tool. No. 1,152,070; Aug. 31; Gaz. vol. 217; p. 1526.
- Borgfeldt, Richard, Metuchen, N. J., assignor of one-half to H. G. Latimer, Brooklyn, N. Y. Commutation-ticket. No. 1,159,642; Nov. 9; Gaz. vol. 220; p. 464.
- Borgmeyer, David H., St. Charles, Mo. Mail-bag rack. No. 1,133,611; Mar. 30; Gaz. vol. 212; p. 1492.
- Boright, William W., South Framingham, Mass. Wheelbarrow. No. 1,135,431; Apr. 13; Gaz. vol. 213; p. 521.
- Boring, Herbert, Portsmouth, Ohio, assignor of one-half to H. H. Hart, Chicago, Ill. Chuck. No. 1,140,567; May 25; Gaz. vol. 214; p. 1110.
- Borja, Felipe M., New York, N. Y. Swinging clothes-line support. No. 1,149,894; Aug. 10; Gaz. vol. 217; p. 607.
- Börjeson, Arvid A. H. (See Pægerlund and Börjeson.)
- Borkgren, Theodore, Geneseo, Ill. Tire safety-valve. No. 1,125,263; Jan. 19; Gaz. vol. 210; p. 806.
- Borkhuis, Louis, Vayland, S. D. Gambrel. No. 1,150,331; Aug. 17; Gaz. vol. 217; p. 824.
- Borland, Archibald. (See Edinger, Fred S., assignor.)
- Borland, Bruce, Chicago, Ill. Lock and key. No. 1,151,080; Aug. 24; Gaz. vol. 217; p. 1139.
- Borland, Bruce, assignor to The Borland-Grannis Company, Chicago, Ill. Seat. No. 1,156,834; Oct. 12; Gaz. vol. 219; p. 550.
- Borland, Deloss, Charleston, Miss. Combined lock and latch. No. 1,143,492; June 15; Gaz. vol. 215; p. 919.
- Borland-Grannis Company, The. (See Borland, Bruce, assignor.)
- Borland, John A., assignor of one-half to P. Crosley, Cincinnati, Ohio. Wheel. No. 1,126,174; Jan. 26; Gaz. vol. 210; p. 1166.
- Borland, John A., assignor of one-half to P. Crosley, Cincinnati, Ohio. Wheel. No. 1,144,996; July 6; Gaz. vol. 216; p. 6.
- Borland, John A., assignor of one-half to P. Crosley, Cincinnati, Ohio. Tire. No. 1,147,600; July 20; Gaz. vol. 216; p. 959.
- Borman, Herman C. (See Matthews, Richard M., assignor.)
- Bornemann, Adolph, Bettendorf, Iowa. Sewer-cleaning means. No. 1,136,766; Apr. 20; Gaz. vol. 213; p. 1034.
- Bornemann, Herman, and J. Tennessen, Jr., Dundas, Wis. Thistle-eradicator. No. 1,136,206; Apr. 20; Gaz. vol. 213; p. 834.
- Börner, Gustav R., Leipzig, Entritzsch, assignor to Firm of L. Hupfeld Aktien-Gesellschaft, Leipzig, Germany. Automatic throttling mechanism. No. 1,139,478; May 18; Gaz. vol. 214; p. 691.
- Bornmann, Carl, assignor to AnSCO Company, Ringhamton, N. Y. Finder for cameras. No. 1,152,782; Sept. 7; Gaz. vol. 218; p. 147.
- Bornmann, Carl, Ringhamton, N. Y., assignor to AnSCO Company. Film-pack camera. No. 1,154,285; Sept. 21; Gaz. vol. 218; p. 748.
- Bornmann, Ernst, assignor to J. A. Topf & Soehne, Erfurt, Germany. Apparatus for drying granular material. No. 1,155,402; Oct. 5; Gaz. vol. 219; p. 27.
- Bornt, Charles F. (See Pedersen, Thomas F., assignor.)
- Borntræger, Arthur G., Louisville, Ky. Drawing-board. No. 1,164,253; Dec. 14; Gaz. vol. 221; p. 574.
- Borowska, Anna, Fork River, Manitoba, Canada. Rail-fastener. No. 1,123,836; Jan. 5; Gaz. vol. 210; p. 217.
- Borresen, Helge A., Marquette, Mich. Device for ascertaining the vertical angle and direction of diamond-drill holes. No. 1,152,701; Sept. 7; Gaz. vol. 218; p. 118.
- Borresen, Helge A., Marquette, Mich., assignor to M. W. Zabel, trustee, Chicago, Ill. Centering device for screw-drivers. No. 1,126,370; Jan. 26; Gaz. vol. 210; p. 1235.
- Borresen, Helge A., Marquette, Mich., assignor to M. W. Zabel, trustee, Chicago, Ill. Chuck. No. 1,153,995; Sept. 21; Gaz. vol. 218; p. 648.
- Borsari-Fischer, Heinrich, Zollikon, near Zurich, Switzerland. Material for lining concrete tanks. No. 1,152,783; Sept. 7; Gaz. vol. 218; p. 147.
- Borschitzky, Karl, Herbesthal, Germany. Combined dredging and ramming device. No. 1,132,510; Mar. 16; Gaz. vol. 212; p. 1009.
- Borsella, Anthony, New York, N. Y. Penholder. No. 1,160,832; Nov. 16; Gaz. vol. 220; p. 940.
- Borsodi, Morris, New York, N. Y. Ink-supplying device. No. 1,157,613; Oct. 19; Gaz. vol. 219; p. 852.
- Borst, Harbin D. (See Childers and Borst.)
- Borstelman, Henry L., Small, Idaho. Sack-holder. No. 1,156,744; Oct. 12; Gaz. vol. 219; p. 520.
- Bortman, Emanuel W., Norristown, Pa., assignor to Wildman Mfg. Co. Cloth-cutting machine. No. 1,130,369; Mar. 2; Gaz. vol. 212; p. 183.
- Borzner, Andrew C., Philadelphia, Pa. Manufacture from cellulose of a fireproof substitute for excelsior for bedding and packing purposes. No. 1,165,062; Dec. 21; Gaz. vol. 221; p. 899.
- Borzychowski, Leo, Berlin, Germany, assignor to General Electric Company. Apparatus for mounting filaments. No. 1,143,493; June 15; Gaz. vol. 215; p. 919.
- Borzykowski, Benno. (See Foltzer, Josef, assignor.)
- Borzykowski, Benno, Charlottenburg-Berlin, Germany. Production of articles or materials from viscose. No. 1,143,569; June 15; Gaz. vol. 215; p. 945.
- Bosch, Carl. (See Haber, Bosch, and Mittasch.)
- Bosch, Carl, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of ammonium sulfate. No. 1,133,086; Mar. 23; Gaz. vol. 212; p. 1268.
- Bosch, Carl, and W. Wild, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Purifying hydrogen gas. No. 1,126,371; Jan. 26; Gaz. vol. 210; p. 1235.
- Bosch, Carl, and W. Wild, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Purification of hydrogen. No. 1,133,087; Mar. 23; Gaz. vol. 212; p. 1268.
- Bosch, Carl, and W. Wild, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing hydrogen. No. 1,157,669; Oct. 26; Gaz. vol. 219; p. 938.
- Bosch, Carl, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of ammonia. No. 1,128,843; Feb. 16; Gaz. vol. 211; p. 851.
- Bosch, Carl, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of ammonia. No. 1,158,167; Oct. 26; Gaz. vol. 219; p. 1112.
- Bosch, Carl, A. Mittasch, H. Wolf, Ludwigshafen-on-the-Rhine, and G. Stern, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Catalytic agents for use in producing ammonia. No. 1,148,570; Aug. 3; Gaz. vol. 217; p. 31.
- Bosch, Carl, A. Mittasch, H. Wolf, and G. Stern, assignors to Badische Anilin & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of ammonia. No. 1,152,930; Sept. 7; Gaz. vol. 218; p. 202.
- Bosch Magneto Company. (See Heins, Otto, assignor.)
- Bosch Magneto Company. (See Heins and Wild, assignors.)
- Bosch, Firm of Robert. (See Bauer, Eugen, assignor.)
- Bosch, Firm of Robert. (See Honold, Gottlob, assignor.)
- Bosch, Firm of Robert. (See Kratz, Franz, assignor.)
- Bosch, Firm of Robert. (See Krauss, Adolf, assignor.)
- Bosch, Firm of Robert. (See Steinhart, Hermann, assignor.)
- Bosch, Firm of Robert. (See Wagner, Robert, assignor.)
- Bosch, Firm of Robert. (See Woerner, Eugen, assignor.)
- Bosch, Robert, Stuttgart, Germany. Benzol-washstand. No. 1,143,354; June 15; Gaz. vol. 215; p. 872.
- Boser, Emil, and E. Matz, Hollywood, Cal. Non-refillable bottle. No. 1,133,225; Mar. 23; Gaz. vol. 212; p. 1316.
- Boshell, James P., Coldwater, Kans. Discharge-feed for unloaders. No. 1,135,348; Apr. 13; Gaz. vol. 213; p. 492.
- Boslo, Peter. (See Boldizsoni and Boslo.)
- Bosler, Benjamin E., and W. L. McMeans, Johnstown, Pa. Apparatus for cutting metals. No. 1,164,593; Dec. 14; Gaz. vol. 221; p. 693.
- Bosnische Elektrizitäts-Aktiengesellschaft. (See Kaufser, Felix, assignor.)
- Boss-Conzelmann, Johannes, Osniettingen, Germany. Adding apparatus. No. 1,154,367; Sept. 21; Gaz. vol. 218; p. 778.
- Boss, Hattie A. (See Miller, John L., assignor.)
- Boss, John C., Elkhardt, Ind. Air-box of brick-kilns. No. 1,138,532; May 4; Gaz. vol. 214; p. 283.
- Boss, John C., Elkhardt, Ind. Brick-drier. No. 1,147,601; July 20; Gaz. vol. 216; p. 959.
- Boss Manufacturing Company. (See Waller, Peter A., assignor.)
- Boss, William, St. Paul, Minn. Grass-catcher. No. 1,136,207; Apr. 20; Gaz. vol. 213; p. 834.
- Boss, William, St. Paul, Minn. Humidifier. No. 1,136,208; Apr. 20; Gaz. vol. 213; p. 834.
- Bossart, James, San Francisco, Cal. Memorandum-calendar. No. 1,139,159; May 11; Gaz. vol. 214; p. 545.
- Bossenberger, William P., Williams, Iowa. Buggy-runner. No. 1,159,643; Nov. 9; Gaz. vol. 220; p. 464.
- Bosserman, Edward D., et al. (See Bente, Henry K., assignor.)
- Bosserman, Joseph S., Sedalla, Mo. Fish-hook. No. 1,154,168; Sept. 21; Gaz. vol. 218; p. 708.

Alphabetical list of patentees—Continued.

- Bossert, Albert T., assignor to Smith & Sons Mfg. Co., Kansas City, Mo. Worm-gearing. No. 1,146,995; July 20; Gaz. vol. 216; p. 748.
- Bossert, William F., Utica, N. Y. Apparatus for operating switch-points. No. 1,136,767; Apr. 20; Gaz. vol. 213; p. 1034.
- Bossert, William F., Utica, N. Y. Adjustable connection for switch-points. No. 1,161,599; Nov. 23; Gaz. vol. 220; p. 1256.
- Bosshardt, Edwin, Emmenbrücke, near Lucerne, Switzerland. Furnace for melting metals. No. 1,164,983; Dec. 21; Gaz. vol. 221; p. 872.
- Bost, Francis W., China Grove, N. C. Circuit-closer for fire-alarms. No. 1,153,755; Sept. 14; Gaz. vol. 218; p. 530.
- Bostock & Sons, Thomas. (See Lyon, Harry, assignor.)
- Bostock, William F., Providence, R. I., assignor to Williams-Kneeland Company, Braintree, Mass. Composite sole. No. 1,162,445; Nov. 30; Gaz. vol. 220; p. 1596.
- Boston Auto Gage Company. (See Stable, Carl W., assignor.)
- Boston Coin Machines Company. (See Grover and Barber, assignors.)
- Boston Floor Company. (See Moore, Herbert C., assignor.)
- Boston Machine Works Company. (See Freer, Henry H., assignor.)
- Boston Music Company. (See Matthay, Tobias, assignor.)
- Boston Pressed Metal Company. (See Woodworth, Joseph V., assignor.)
- Boston Rubber Shoe Company. (See Piper, Walter E., assignor.)
- Boston Rubber Shoe Company. (See Randall, Chester J., assignor.)
- Boston Talking Machine Company. (See Allis, Dexter W., assignor.)
- Boston Woven Hose and Rubber Company. (See Landin, Carl J., assignor.)
- Bostwick, James A., New York, N. Y. Musical educational game-cards. No. 1,139,098; May 11; Gaz. vol. 214; p. 523.
- Bostwick, Seymour A., assignor of one-third to C. A. Glentworth and one-third to H. M. Bator, Boston, Mass. Valve-grinding device. No. 1,154,605; Sept. 28; Gaz. vol. 218; p. 886.
- Bostwick, Tuffel L., Burlington, Vt. Construction-block. No. 1,155,035; Sept. 28; Gaz. vol. 218; p. 1032.
- Boswan, Johannes P. C., assignor to Western Electric Company, New York, N. Y. Selective signaling device. No. 1,163,883; Dec. 14; Gaz. vol. 221; p. 447.
- Boswell, Arthur, Philadelphia, Pa. Animal-trap. No. 1,132,428; Mar. 16; Gaz. vol. 212; p. 978.
- Boswell, George G. F., Indianapolis, Ind. Electric coin-controlled lock. No. 1,148,438; July 27; Gaz. vol. 216; p. 1281.
- Boswell, Henson R., Greenwood, Va. Tractor-plow. No. 1,157,670; Oct. 26; Gaz. vol. 219; p. 938.
- Bosworth, George P. (See Godin and Bosworth.)
- Bosworth, George P., Central Falls, R. I. Automatic circular-knitting machine for producing split-foot hosiery. No. 1,154,169; Sept. 21; Gaz. vol. 218; p. 708.
- Bosworth, George P., Central Falls, assignor to Hemphill Manufacturing Co., Pawtucket, R. I. Take-up mechanism for knitting machines. No. 1,149,330; Aug. 10; Gaz. vol. 217; p. 404.
- Bosworth, George P., Central Falls, assignor to Hemphill Manufacturing Company, Pawtucket, R. I. Stocking-knitting machine. No. 1,149,714; Aug. 10; Gaz. vol. 217; p. 542.
- Both, David, St. Johns, Mich. Mane-holder. No. 1,131,903; Mar. 16; Gaz. vol. 212; p. 787.
- Both, Tonjes A. C., Malden, assignor, by mesne assignments, to The Zee Socket & Mfg. Co., Boston, Mass. Mechanical movement. No. 1,143,606; June 22; Gaz. vol. 215; p. 983.
- Both, Tonjes A. C., New York, N. Y., assignor, by mesne assignments, to The Zee Socket and Mfg. Co., Boston, Mass. Snap-lock for electric-socket shells. No. 1,143,937; June 22; Gaz. vol. 215; p. 1096.
- Both, Tonjes A. C., Fairhaven, assignor, by mesne assignments, to The Zee Socket and Mfg. Co., Boston, Mass. Mechanical movement and electric-light socket. (Reissue.) No. 13,990; Oct. 5; Gaz. vol. 219; p. 250.
- Bothman, John, Dante, S. D. Neck-yoke. No. 1,133,918; Mar. 30; Gaz. vol. 212; p. 1599.
- Bothwell, George W., Ontario, Cal. Fuel-supply means for orchard-heaters. No. 1,145,289; July 6; Gaz. vol. 216; p. 109.
- Botscheller, Alexander P. (See Schmidt, Frederick, assignor.)
- Bott, Robert W., Minneapolis, Minn. End-play device for rotary engines. No. 1,153,888; Sept. 21; Gaz. vol. 218; p. 613.
- Bott, Walter C., Walla Walla, Wash. Wrench. No. 1,166,320; Dec. 28; Gaz. vol. 221; p. 1382.
- Bott, Walter C., and O. P. Clemens, Walla Walla, Wash. Necktie-fastener. No. 1,162,559; Nov. 30; Gaz. vol. 220; p. 1634.
- Bottaro, Giacomo, Genoa, Italy. Separation of fatty and oleous materials from watery emulsions and finely-subdivided solid materials insoluble in water. No. 1,159,355; Nov. 9; Gaz. vol. 220; p. 361.
- Bottcher, John M., Highmore, S. D. Mold. No. 1,123,473; Jan. 5; Gaz. vol. 210; p. 95.
- Böttcher, Paul, Gross Flottbeck, near Hamburg, Germany. Curved teeth for gears. No. 1,154,840; Sept. 28; Gaz. vol. 218; p. 966.
- Bottenstein, Leopold, Albany, N. Y. Window-cleaner. No. 1,151,758; Aug. 31; Gaz. vol. 217; p. 1417.
- Bottineil, Michele J., Kellogg, Idaho. Safety device. No. 1,139,839; May 18; Gaz. vol. 214; p. 818.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold sales-book. No. 1,150,096; Aug. 17; Gaz. vol. 217; p. 740.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Multicolor manifold sales-book. No. 1,151,655; Aug. 31; Gaz. vol. 217; p. 1382.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold sales-book. No. 1,157,290; Oct. 19; Gaz. vol. 219; p. 743.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold sales-book. No. 1,158,889; Nov. 2; Gaz. vol. 220; p. 169.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold sales-book. No. 1,160,248; Nov. 16; Gaz. vol. 220; p. 732.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Apparatus for removing staples. No. 1,160,568; Nov. 16; Gaz. vol. 220; p. 844.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold sales-book. No. 1,165,938; Dec. 28; Gaz. vol. 221; p. 1243.
- Bottle, Edward W., London, England. Electrically-operated system of and apparatus for automatic signaling on railways. No. 1,140,659; May 25; Gaz. vol. 214; p. 1141.
- Bottom, Turner D., Indianapolis, Ind. Carbureting. No. 1,153,889; Sept. 21; Gaz. vol. 218; p. 613.
- Bottomley, Wilfred, Manchester, England. Baling-press. No. 1,125,451; Jan. 19; Gaz. vol. 210; p. 874.
- Bottomf, Dick. (See Shaw and Bottomf.)
- Bottom, George L., Chicago, Ill. Thermostatic valve. No. 1,147,297; July 20; Gaz. vol. 216; p. 850.
- Botz, George W., Milwaukee, Wis. Developing-tank. No. 1,131,817; Mar. 16; Gaz. vol. 212; p. 757.
- Bouchard, Everett J., Ware, Mass. Pipe-coupling. No. 1,137,113; Apr. 27; Gaz. vol. 213; p. 1194.
- Bouchard, Timothy, J. V. Cunliffe, and P. J. Juncas, Fall River, Mass. Stop-motion for looms. No. 1,150,493; Aug. 17; Gaz. vol. 217; p. 880.
- Bouché, William F., Depew, N. Y., assignor to Gould Coupler Company. Means for driving dynamos from car-axles. No. 1,145,465; July 6; Gaz. vol. 216; p. 172.
- Bouché, William F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Connection-box. No. 1,153,019; Sept. 7; Gaz. vol. 218; p. 234.
- Boucher, Peter, assignor to Inland Knitting Works, Green Bay, Wis. Suction-roll covering. No. 1,152,596; Sept. 7; Gaz. vol. 218; p. 80.
- Boucher, Philius J., assignor to The Standard Optical Company, Geneva, N. Y. Tool-holder. No. 1,141,864; June 1; Gaz. vol. 215; p. 270.
- Bouchery, August, assignor, by mesne assignments, to The Wallace Novelty Company, New York, N. Y. Portable electric-lamp stand. No. 1,132,532; Mar. 16; Gaz. vol. 212; p. 1017.
- Bouchery, August, assignor, by mesne assignments, to C. K. McCornick, New York, N. Y. Dish-washing apparatus. No. 1,143,099; June 15; Gaz. vol. 215; p. 782.
- Boudrenux, Carlos, Marathon, Tex. Display apparatus. No. 1,128,938; Feb. 16; Gaz. vol. 211; p. 886.
- Bouduban, Francois, Highland Park, Mich. Horseshoe-calk. No. 1,160,249; Nov. 16; Gaz. vol. 220; p. 732.
- Boudwin, Edward H., assignor of one-sixth to D. W. Harner, one-sixth to R. L. Worsing, one-sixth to C. M. Gage, one-sixth to J. A. Pfouts, Philadelphia, and one-sixth to A. E. Yohn, Huntingdon, Pa. Telephone system of railway-trains. No. 1,148,141; July 27; Gaz. vol. 216; p. 1178.
- Boudwin, Edward H., assignor of one-sixth to D. W. Harner, one-sixth to R. L. Worsing, one-sixth to C. M. Gage, one-sixth to J. A. Pfouts, Philadelphia, and one-sixth to A. E. Yohn, Huntingdon, Pa. Signaling system for railway-trains. No. 1,148,142; July 27; Gaz. vol. 216; p. 1178.
- Boudwin, Walker J., Salt Lake City, Utah. Classifier and dewaterer. No. 1,140,793; May 25; Gaz. vol. 214; p. 1186.
- Boufford, Joseph T., Linwood, Mass. Fire-escape. No. 1,162,679; Nov. 30; Gaz. vol. 220; p. 1671.
- Boughan, Andrew B., Chicago, Ill. Holder for scrub-brushes. No. 1,132,511; Mar. 16; Gaz. vol. 212; p. 1009.
- Boughan, Archie L., Canton, Ill. Frame for stacking straw. No. 1,145,111; July 6; Gaz. vol. 216; p. 49.

- Boughner, Chas. L. (See Matlock, Thomas, assignor.)
 Boughton Flying Machine Company, The. (See Boughton, John W., assignor.)
 Boughton, John W., Philadelphia, Pa., assignor to The Boughton Flying Machine Company. Airship. No. 1,138,724; May 11; Gaz. vol. 214; p. 390.
 Boughton, Judson H., St. Louis, Mo., Curtain. No. 1,161,444; Nov. 23; Gaz. vol. 220; p. 1203.
 Boughton, Solon J., *et al.* (See Robinson, Jay A., assignor.)
 Boughton, Walter W. (See Walker and Boughton.)
 Bouillon, Constant, Torrington, Conn., assignor to The Hendey Machine Company. Mechanism for relieving the teeth of cutters. No. 1,132,551; Mar. 23; Gaz. vol. 212; p. 1070.
 Bouk, Henry A., assignor to Bouk Patents Company, Seattle, Wash. Theater-chair. No. 1,152,480; Sept. 7; Gaz. vol. 218; p. 36.
 Bouk, Henry A., and J. F. Leise, Seattle, Wash. Oiling device. No. 1,149,020; Aug. 3; Gaz. vol. 217; p. 189.
 Bouk Patents Company. (See Bouk, Henry A., assignor.)
 Boulard, Henri, Paris, France. Manufacture of vinegar. No. 1,164,063; Dec. 14; Gaz. vol. 221; p. 511.
 Boulard, Joseph, assignor to Universal Filter-Faucet Corporation, New York, N. Y. Faucet-filter. No. 1,139,331; May 11; Gaz. vol. 214; p. 602.
 Bouldry, George W. (See Blanchard, Smith, and Bouldry.)
 Bouliou, John, and P. Brady, Sault Ste. Marie, Mich. Fire-escape. No. 1,147,365; July 20; Gaz. vol. 216; p. 876.
 Boulton, John P., Barrow-in-Furness, England. Covering surfaces. No. 1,138,928; May 11; Gaz. vol. 214; p. 461.
 Bourbonnais, Joseph A., Granby, Mass. Running-gear for wagons. No. 1,163,806; Dec. 14; Gaz. vol. 221; p. 421.
 Bourcier, Gabriel, Erith, assignor to Vickers Limited, Westminster, England. Crank-pin bearing. No. 1,157,975; Oct. 26; Gaz. vol. 219; p. 1045.
 Bourdon, Allen P. (See Bourdon, Leo R. and A. P.)
 Bourdon, Elie, West Vancouver, British Columbia, Canada. Protective device for ball-players. No. 1,136,307; Apr. 20; Gaz. vol. 213; p. 870.
 Bourdon, Leo R. and A. P., Woodstock, Vt. Sled. No. 1,160,569; Nov. 16; Gaz. vol. 220; p. 845.
 Bourdon, Victor. (See Conning and Bourdon.)
 Bourgeois, Tilman A., Auburndale, Mass. Clothes-pin. No. 1,136,768; Apr. 20; Gaz. vol. 213; p. 1034.
 Bourikas, Vasilios, Acushnet, Mass. Whip. No. 1,160,490; Nov. 16; Gaz. vol. 220; p. 816.
 Bourke, Martin, assignor of one-half to G. Baker and one-half to J. A. Logan, Youngstown, Ohio. Ship's life-boat. No. 1,130,137; Mar. 2; Gaz. vol. 212; p. 102.
 Bourn, Robert T., Templeton, Mass. Post-office furniture. No. 1,152,274; Aug. 31; Gaz. vol. 217; p. 1595.
 Bourn, Robert T., Templeton, Mass. Post-office furniture. No. 1,152,275; Aug. 31; Gaz. vol. 217; p. 1595.
 Bourne, Henry J., Lyons, N. Y. Game device. No. 1,150,014; Aug. 17; Gaz. vol. 217; p. 712.
 Bourne, Theodore F., Montclair, N. J. Carbureter. No. 1,158,435; Nov. 2; Gaz. vol. 220; p. 8.
 Bourne, William A., Lancaster, Pa. Cooking-stove. No. 1,145,399; July 6; Gaz. vol. 216; p. 148.
 Bourquin, Gustave L., Perkaskie, Pa., and R. Loeb, assignors to R. Loeb, Camden, N. J. Embroidery-trimming machine. No. 1,143,884; June 22; Gaz. vol. 215; p. 1078.
 Bourquin, Gustave L., Perkaskie, Pa., and R. Loeb, Camden, N. J., assignors to said Loeb. Fabric-trimming machine. No. 1,144,319; June 22; Gaz. vol. 215; p. 1232.
 Bourquin, Gustave L., Perkaskie, Pa., and R. Loeb, Camden, N. J., assignors to said Loeb. Grinding and sharpening machine. No. 1,149,991; Aug. 10; Gaz. vol. 217; p. 642.
 Bourquin, Gustave L., Sellersville, Pa., and R. Loeb, Camden, N. J., assignors to R. Loeb, Jenkintown, Pa. Embroidery-trimming machine. No. 1,144,320; June 22; Gaz. vol. 215; p. 1232.
 Bourquin, Harry B. (See Bourquin, Henry C. and H. R.)
 Bourquin, Henry C., St. Marys, and H. B. Bourquin, Springfield, Ohio. Device for casting ornaments in work of plastic material. No. 1,146,397; July 13; Gaz. vol. 216; p. 518.
 Bourquin, Numa. (See Willson and Bourquin.)
 Boury, André, Paris, France, assignor to General Electric Company. Regulating device. No. 1,133,000; Mar. 23; Gaz. vol. 212; p. 1237.
 Bousfield, John H. A., assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Scale. No. 1,128,844; Feb. 16; Gaz. vol. 211; p. 851.
 Bousfield, John H. A., assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Automatic hopper-scale. No. 1,149,331; Aug. 10; Gaz. vol. 217; p. 405.
 Bousquet, Louis, *et al.* (See Landry, Louis H., assignor.)
 Bousquet, Theodore, *et al.* (See Landry, Louis H., assignor.)
 Bouflet, Georges J., Paris, France. Vaporizer for internal-combustion engines. No. 1,140,944; May 25; Gaz. vol. 214; p. 1242.
 Bovard & Seyfang Manufacturing Company. (See Wright, William, assignor.)
 Bové, Ramon, New York, N. Y. Hat-retainer. No. 1,128,749; Feb. 16; Gaz. vol. 211; p. 817.
 Boyee, Ransom Y., Chicago, Ill. Pipe-wrench. No. 1,125,946; Jan. 26; Gaz. vol. 210; p. 1080.
 Boyee, Ransom Y., Denver, Colo. Wrench. No. 1,133,530; Mar. 30; Gaz. vol. 212; p. 1462.
 Boyee, Ransom Y., Chicago, Ill., assignor to B. A. Franklin, trustee. Screw-cutter. No. 1,151,857; Aug. 31; Gaz. vol. 217; p. 1453.
 Bowden, Clyde A., and J. F. Gordon, Garrett, Ind. Attachment for speed-recorders. No. 1,131,668; Mar. 16; Gaz. vol. 212; p. 702.
 Bowden, Junius A., Los Angeles, Cal., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Pressure-gage. No. 1,152,276; Aug. 31; Gaz. vol. 217; p. 1596.
 Bowden-Smith, Edward C., Brockenhurst, England. Pneumatic ejector. No. 1,144,806; June 29; Gaz. vol. 215; p. 1428.
 Bowdish, Albertis, Norwich, assignor of three-fourths to J. W. and F. K. Rhines and R. T. Shaw, Cortland, N. Y. Cultivator. No. 1,131,110; Mar. 9; Gaz. vol. 212; p. 474.
 Bowditch, Horace E., *et al.* (See Wilson, Charles A., assignor.)
 Bowdle, Frank A., Cerro Gordo, Ill. Insulator-bracket. No. 1,139,950; May 18; Gaz. vol. 214; p. 857.
 Bowdoin, Harry L., Bayonne, N. J. Theatrical apparatus. No. 1,146,548; July 13; Gaz. vol. 216; p. 572.
 Bowdoin, Harry L., Bayonne, N. J. Submarine armor. No. 1,146,781; July 20; Gaz. vol. 216; p. 672.
 Bowdren, George P., Hempstead, N. Y. Water-closet. No. 1,141,375; June 1; Gaz. vol. 215; p. 103.
 Bowell, George B., Margate, England. Film-feed gearing. No. 1,160,970; Nov. 16; Gaz. vol. 220; p. 988.
 Bowen, Aaron L. (See Clarke and Bowen.)
 Bowen, Aaron L., assignor to H. B. Hardt, Seattle, Wash. Table-service apparatus. No. 1,155,638; Oct. 5; Gaz. vol. 219; p. 109.
 Bowen, Adna G., Medina, N. Y. Universal joint. No. 1,145,400; July 6; Gaz. vol. 216; p. 148.
 Bowen, Adna G., Medina, N. Y. Universal joint. No. 1,145,401; July 6; Gaz. vol. 216; p. 148.
 Bowen, Annie F. W., San Francisco, Cal. Eraser-holder for pencils. No. 1,136,094; Apr. 20; Gaz. vol. 213; p. 794.
 Bowen, Charles W., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-building machine. No. 1,146,996; July 20; Gaz. vol. 216; p. 748.
 Bowen, David J., assignor of one-half to G. Bonawitz, Brooklyn, N. Y. Feed-bag. No. 1,154,229; Sept. 21; Gaz. vol. 218; p. 728.
 Bowen, David R., assignor to Farrel Foundry & Machine Company, Ansonia, Conn. Shaft or roll bearing. No. 1,158,436; Nov. 2; Gaz. vol. 220; p. 8.
 Bowen, Ed C., Bottineau, N. D. Internal-combustion engine. No. 1,161,833; Nov. 30; Gaz. vol. 220; p. 1382.
 Bowen, Edward T., Los Angeles, Cal., assignor to Kellar-Thomson Company. Gate-valve. No. 1,141,374; June 1; Gaz. vol. 215; p. 103.
 Bowen, Frank L., and W. I. Cook, Birmingham, Ala. Packing-ring. No. 1,152,277; Aug. 31; Gaz. vol. 217; p. 1596.
 Bowen, George W. (See Pribil, Alexis R., assignor.)
 Bowen, George W. (See Zerk, Oscar, assignor.)
 Bowen, George W., Auburn, N. Y. Lubricant-cup. No. 1,158,437; Nov. 2; Gaz. vol. 220; p. 9.
 Bowen, George W., Auburn, N. Y. Sheet-metal bolt. No. 1,162,746; Dec. 7; Gaz. vol. 221; p. 6.
 Bowen, Jesse B., Lumberton, N. C. Propelling device for type-writer carriages. No. 1,165,150; Dec. 21; Gaz. vol. 221; p. 932.
 Bowen, John G., Fort Madison, Iowa. Wet-process cement-brick mold. No. 1,158,973; Nov. 2; Gaz. vol. 220; p. 195.
 Bowen, Roy, Hoopeston, Ill. Camera attachment. No. 1,158,025; Oct. 26; Gaz. vol. 219; p. 1062.
 Bowen, Roy A., Commonwealth, Wis. Direction-indicating attachment for drilling-machines. No. 1,131,596; Mar. 9; Gaz. vol. 212; p. 641.
 Bowen, Russell H., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,125,643; Jan. 19; Gaz. vol. 210; p. 940.
 Bowen, Russell H., assignor to The American Pulley Company, Philadelphia, Pa. Rim-clamp for pulleys. No. 1,142,749; June 8; Gaz. vol. 215; p. 617.
 Bowen, Russell H., assignor to The American Pulley Company, Philadelphia, Pa. Spool. No. 1,152,278; Aug. 31; Gaz. vol. 217; p. 1596.
 Bowen, William. (See Nies and Bowen.)
 Bower, Abram L., Boyertown, Pa. Automatic train-controlling device. No. 1,138,349; May 4; Gaz. vol. 214; p. 221.
 Bower, Benjamin H., and O. L. Osborn, St. Louis, Mo. Ball-bearing caster and the like. No. 1,153,838; Sept. 14; Gaz. vol. 218; p. 560.
 Bower, Ferdinand A., Flint, assignor to General Motors Company, Detroit, Mich. Axle and forming the same. No. 1,164,915; Dec. 21; Gaz. vol. 221; p. 848.
 Bower, George, Otis, Kans. Revolving harrow. No. 1,133,919; Mar. 30; Gaz. vol. 212; p. 1600.
 Bower, George P., Buffalo, N. Y. High-water trap. No. 1,147,702; July 27; Gaz. vol. 216; p. 1021.
 Bower, Harold J. (See Bower, James R. and H. J.)

Alphabetical list of patentees—Continued.

- Bower, Jacob M., Durham, N. C. Sliding door for automobiles. No. 1,131,322; Mar. 9; Gaz. vol. 212; p. 548.
- Bower, James G., Johannesburg, Transvaal, South Africa. Leveling instrument for use in underground workings. No. 1,145,664; July 6; Gaz. vol. 216; p. 241.
- Bower, James R. and H. J., Seattle, Wash. Stove. No. 1,163,807; Dec. 14; Gaz. vol. 221; p. 422.
- Bower, Lewis A., Sigourney, Iowa. Music-leaf turner. No. 1,135,255; Apr. 13; Gaz. vol. 213; p. 459.
- Bower, Ralph F., Los Angeles, Cal. Fuse-nozzle. No. 1,165,313; Dec. 21; Gaz. vol. 221; p. 986.
- Bower, Robert F., assignor to Bower Roller Bearing Company, Detroit, Mich. Roller-bearing. No. 1,125,452; Jan. 19; Gaz. vol. 210; p. 874.
- Bower, Robert F., Dayton, Ohio, assignor to Bower Roller Bearing Company, Detroit, Mich. Roller-bearing. No. 1,163,884; Dec. 14; Gaz. vol. 221; p. 448.
- Bower Roller Bearing Company. (See Bower, Robert F., assignor.)
- Bowers, Bose B., Macon, Ga. Propelling apparatus for boats. No. 1,123,474; Jan. 5; Gaz. vol. 210; p. 95.
- Bowers, Franklin A. (See Erwin and Bowers.)
- Bowers, Frederick M., Chester, Pa. Apparatus for cutting, welding, and brazing metals. No. 1,137,834; May 4; Gaz. vol. 214; p. 39.
- Bowers, Frederick M., Chester, Pa. Helmet. No. 1,135,759; Apr. 13; Gaz. vol. 213; p. 636.
- Bowers, George, San Francisco, Cal. Pulley. No. 1,152,597; Sept. 7; Gaz. vol. 218; p. 80.
- Bowers, Harry L., Bay City, Mich. Motor-boat. No. 1,123,230; Jan. 5; Gaz. vol. 210; p. 10.
- Bowers, John C., Boston, Mass. Can-sealing machine. No. 1,136,399; Apr. 20; Gaz. vol. 213; p. 904.
- Bowers, John C., Boston, Mass. Hermetically-sealed receptacle. No. 1,161,445; Nov. 23; Gaz. vol. 220; p. 1203.
- Bowers, John C., Boston, Mass. Hermetically-sealed receptacle. No. 1,161,446; Nov. 23; Gaz. vol. 220; p. 1203.
- Bowers, John C., Boston, Mass. Hermetically-sealed receptacle. No. 1,161,447; Nov. 23; Gaz. vol. 220; p. 1204.
- Bowers, John C., E. E. Barber, Boston, and A. D. Grover, Malden, assignors to A. H. Parker, Bedford, and W. H. Emerson, Newton, Mass. Machine for sealing metal boxes or cans. No. 1,136,401; Apr. 20; Gaz. vol. 213; p. 905.
- Bowers, Lionel F., assignor to Columbia Manufacturing Company, Columbia, Pa. Dry-room. No. 1,147,298; July 20; Gaz. vol. 216; p. 851.
- Bowers, Louis H., Newark, N. J. Adjustable gage. No. 1,147,602; July 20; Gaz. vol. 216; p. 960.
- Bowers, Otho D., Arcanum, Ohio. Electric permutation-switch mechanism. No. 1,157,923; Oct. 26; Gaz. vol. 219; p. 1026.
- Bowers, William H., Lincoln, Nebr. Clamp. No. 1,134,815; Apr. 6; Gaz. vol. 213; p. 266.
- Bowes, Louis M., et al. (See Greenwood, Edgar and J., assignors.) (Reissue.)
- Bowie, George W., and C. R. Smith, deceased, Bremen; W. Turkenton, administrator, assignor to H. A. Smith, Lancaster, Ohio. Swivel combination valve. No. 1,145,742; July 6; Gaz. vol. 216; p. 269.
- Bowie, Wallace D., Bowie, Colo. Lamp-cleaner. No. 1,126,372; Jan. 26; Gaz. vol. 210; p. 1235.
- Bowker, Fred W., and D. W. Smith, assignors, by mesne assignments, to Forest King Machine Company, Machias, Me. Tree-sawing machine. No. 1,127,172; Feb. 2; Gaz. vol. 211; p. 179.
- Bowlard, Frank Y., assignor to F. R. Meadors, Pasadena, Cal. Front-wheel-centering device. No. 1,154,908; Sept. 28; Gaz. vol. 218; p. 988.
- Bowler, Bartholomew, Providence, R. I. Manifold-recording device. No. 1,147,137; July 20; Gaz. vol. 216; p. 796.
- Bowles, Philip E., Jr. (See McNear and Bowles.)
- Bowles, William M., Shawnee, Okla. Safety-vent for crude-oil-storage tanks. No. 1,162,019; Nov. 30; Gaz. vol. 220; p. 1448.
- Bowlin, Elihu, Chattanooga, assignor of one-half to E. J. Baldwin, East Chattanooga, Tenn. Reversible disk plow. No. 1,152,279; Aug. 31; Gaz. vol. 217; p. 1597.
- Bowling, Charles, Buffalo, N. Y. Animal-trap. No. 1,151,438; Aug. 24; Gaz. vol. 217; p. 1259.
- Bowling, Clarence B., Detroit, Mich. Dental floss-holder. No. 1,153,890; Nov. 2; Gaz. vol. 220; p. 169.
- Bowman, Alton H., Allentown, Pa. Vending-machine. No. 1,138,075; May 4; Gaz. vol. 214; p. 124.
- Bowman, Arthur A. (See Palmer, Blee, Bowman, and Palmer.)
- Bowman, Benjamin. (See Bowman, John and B.)
- Bowman, Charles H. (See Atkins, William H., assignor.)
- Bowman, Charles M., assignor of four-tenths to G. S. Bowman and three-tenths to F. P. Hammar, Lebanon, Pa. Knockdown metallic shipping or storage receptacle. No. 1,147,073; July 20; Gaz. vol. 216; p. 774.
- Bowman, David, Edmonton, Alberta, Canada. Rotary valve. No. 1,138,446; May 4; Gaz. vol. 214; p. 255.
- Bowman, Elhanan, Elmwood, Ontario, assignor of one-half to C. R. Miller, Berlin, Canada. Indicator for party-line telephones. No. 1,125,947; Jan. 26; Gaz. vol. 210; p. 1081.
- Bowman, Ezra, et al. (See Meyers, Jacob E., assignor.)
- Bowman, Frank A., and J. E. Briggs, Gilbert, Minn. Slide-valve mechanism for engines. No. 1,123,986; Jan. 5; Gaz. vol. 210; p. 267.
- Bowman, George S., et al. (See Bowman, Charles M., assignor.)
- Bowman, George S., Lebanon, Pa. Knockdown package. No. 1,144,633; June 29; Gaz. vol. 215; p. 1366.
- Bowman, George W., Estherville, Iowa. Drum and cymbal beater. No. 1,138,839; May 11; Gaz. vol. 214; p. 432.
- Bowman, Henry, et al. (See Cave, Daniel, assignor.)
- Bowman, Hiram V., Toledo, Ill. Gas-engine valve. No. 1,157,077; Oct. 19; Gaz. vol. 219; p. 667.
- Bowman, Howard H., Owen Sound, Ontario, Canada. Skate. No. 1,153,890; Sept. 21; Gaz. vol. 218; p. 614.
- Bowman, James, Brooklyn, N. Y., assignor to Griswoldville Manufacturing Company, Griswoldville, Mass. Package for bandages and analogous articles. No. 1,161,286; Nov. 23; Gaz. vol. 220; p. 1146.
- Bowman, James C. (See Williams and Bowman.)
- Bowman, James M., Johnson City, Tenn. Drill. No. 1,147,674; July 20; Gaz. vol. 216; p. 986.
- Bowman, John and B., Toronto, Ontario, Canada. Primer for internal-combustion engines. No. 1,130,705; Mar. 9; Gaz. vol. 212; p. 336.
- Bowman, John E. (See Osgood, Horatio B., assignor.)
- Bowman, John E., Syracuse, N. Y. Accelerator for automobiles. No. 1,132,907; Mar. 23; Gaz. vol. 212; p. 1202.
- Bowman, Levi M., assignor of one-half to G. T. Martin, Tulsa, Okla. Novelty advertising device. No. 1,126,373; Jan. 26; Gaz. vol. 210; p. 1236.
- Bowman, Levi M., Fort Worth, Tex., assignor to W. C. Farmer, Tulsa, Okla. Razor-stropping device. No. 1,150,658; Aug. 17; Gaz. vol. 217; p. 938.
- Bowman, Lloyd, assignor of one-half to W. E. Eastman, Detroit, Mich. Concealed hinge. No. 1,152,000; Aug. 31; Gaz. vol. 217; p. 1501.
- Bowman, Newton K., North Lawrence, Ohio. Rerailer. No. 1,152,784; Sept. 7; Gaz. vol. 218; p. 147.
- Bowman, Newton K., North Lawrence, Ohio. Manually-operated mine-door. No. 1,155,703; Oct. 5; Gaz. vol. 219; p. 132.
- Bowman, Thomas. (See McGonigal, Jerome T., assignor.)
- Bowman, Walter H., Bridgeport, Conn. Fire-alarm. No. 1,162,020; Nov. 30; Gaz. vol. 220; p. 1449.
- Bowman, William B., Wilkes-Barre, Pa. Box. No. 1,145,665; July 6; Gaz. vol. 216; p. 241.
- Bown, David E. (See Gray, Adelbert W., assignor.)
- Bowne, John D., New York, N. Y., assignor, by mesne assignments, to Elevator Supply and Repair Company. Elevator signal system. No. 1,132,552; Mar. 23; Gaz. vol. 212; p. 1071.
- Bowser, Allen A., Fort Wayne, Ind. Adjustable stop device. No. 1,137,454; Apr. 27; Gaz. vol. 213; p. 1318.
- Bowser, Allen A., Fort Wayne, Ind. Check-valve. No. 1,147,840; July 27; Gaz. vol. 216; p. 1069.
- Bowser, Allen A., Fort Wayne, Ind. Expansion relief pump. No. 1,147,841; July 27; Gaz. vol. 216; p. 1070.
- Bowser, Allen A., Fort Wayne, Ind. Compensating indicator mechanism. No. 1,147,842; July 27; Gaz. vol. 216; p. 1070.
- Bowser, Allen A., Fort Wayne, Ind. Oil-storage apparatus. No. 1,160,106; Nov. 9; Gaz. vol. 220; p. 629.
- Bowser, Allen A., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Pump. No. 1,138,621; May 11; Gaz. vol. 214; p. 352.
- Bowser, James Y., et al. (See Kinnard, Robert M., assignor.)
- Bowser, Sylvanus F., Fort Wayne, Ind. Pump. No. 1,137,456; Apr. 27; Gaz. vol. 213; p. 1319.
- Bowser, Sylvanus F., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Pump-operating means. No. 1,137,114; Apr. 27; Gaz. vol. 213; p. 1195.
- Bowser, Sylvanus F., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Adjustable pointer and stop for pumps and the like. No. 1,137,455; Apr. 27; Gaz. vol. 213; p. 1319.
- Box Company of America. (See Ticknor, William D., assignor.)
- Boxill, H. A., et al. (See Beery, John H., assignor.)
- Boxley, David W. (See Boxley, Roy C. and D. W.)
- Boxley, Roy C. and D. W., Bumpass, Va. Poultry-coop. No. 1,127,583; Feb. 9; Gaz. vol. 211; p. 361.
- Boy, Will C., Bluff City, Tenn. Valve. No. 1,152,280; Aug. 31; Gaz. vol. 217; p. 1597.
- BoyaJean, John A., Jersey City, N. J. Liquid-coloring implement. No. 1,141,522; June 1; Gaz. vol. 215; p. 156.
- Boyajian, Kamaghiel G., Swarthmore, Pa. Sad-iron-balancing mechanism. No. 1,127,397; Feb. 9; Gaz. vol. 211; p. 296.
- Boyce, Alfred A., Barre, Vt. Folding-machine. No. 1,138,185; May 4; Gaz. vol. 214; p. 163.
- Boyce, Arthur R., assignor of one-half to J. M. Bishop, Thief River Falls, Minn. Scaffold-bracket. No. 1,142,297; June 8; Gaz. vol. 215; p. 462.
- Boyce, Irving J. (See Clark, William W., assignor.)
- Boyce, John A., Springfield, Ill. Apparatus for printing and folding papers. No. 1,149,620; Aug. 10; Gaz. vol. 217; p. 509.

Alphabetical list of patentees—Continued.

- Boyce, John A., Springfield, Ill. Apparatus for printing and folding newspapers. No. 1,149,621; Aug. 10; Gaz. vol. 217; p. 509.
- Boyce, John E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Controlling device for hydraulic elevators. No. 1,152,481; Sept. 7; Gaz. vol. 218; p. 36.
- Boyd, Alonzo, and L. Fallert, Arapahoe, Nebr. Spring hame-tug connection. No. 1,149,332; Aug. 10; Gaz. vol. 217; p. 405.
- Boyd, Arthur, West Hartlepool, England. Propelling mechanism for vehicles. No. 1,126,947; Feb. 2; Gaz. vol. 211; p. 99.
- Boyd, Austin C., Roslyn, Md. Brake mechanism for motor-vehicles. No. 1,146,918; July 20; Gaz. vol. 216; p. 720.
- Boyd, Clifford, assignor of one-half to E. Boyd, Sumas, Wash. Coupling. No. 1,134,179; Apr. 6; Gaz. vol. 213; p. 35.
- Boyd, David C. (See Arndt, Franklin E., assignor.)
- Boyd, David C., assignor to The Gallion Iron Works and Manufacturing Company, Gallion, Ohio. Steering-gear for road-machines. No. 1,130,471; Mar. 2; Gaz. vol. 212; p. 221.
- Boyd, David C., assignor to The Gallion Iron Works and Manufacturing Company, Gallion, Ohio. Pinion device operating mechanism. No. 1,147,366; July 20; Gaz. vol. 216; p. 876.
- Boyd, David C., assignor to The Gallion Iron Works & Mfg. Co., Gallion, Ohio. Automatic chute-closure. No. 1,147,367; July 20; Gaz. vol. 216; p. 876.
- Boyd, David C., Gallion, assignor to Security Metallic Grave Vault Co., Orrville, Ohio. Burial-vault. No. 1,158,399; Oct. 26; Gaz. vol. 219; p. 1194.
- Boyd, Ernest. (See Boyd, Clifford, assignor.)
- Boyd, Ernest. (See Boyd and Fallert.)
- Boyd, George W., Rector, Ark. Launching apparatus for life boats and rafts. No. 1,162,218; Nov. 30; Gaz. vol. 220; p. 1517.
- Boyd, John, Shettleston, Glasgow, Scotland. Tensioning device. No. 1,164,165; Dec. 14; Gaz. vol. 221; p. 545.
- Boyd, John R. M. (See Pidgeon and Boyd.)
- Boyd, Peter, Pittsburgh, and A. M. Saunders, McKeesport, assignors to The National Tube Company, Pittsburgh, Pa. Well-sinking apparatus. No. 1,141,927; June 8; Gaz. vol. 215; p. 332.
- Boyd, Robert J., Detroit, Mich. Heel. No. 1,123,475; Jan. 5; Gaz. vol. 210; p. 95.
- Boyd, Robert L., Meridian, La. Front-end construction for vehicles. No. 1,158,168; Oct. 26; Gaz. vol. 219; p. 1112.
- Boyd, Samuel A., Jr., Brooklyn, N. Y. Clothes-line support. No. 1,166,321; Dec. 28; Gaz. vol. 221; p. 1383.
- Boyd, Thomas A., Glasgow, Scotland. Pirm or cop winding machine. No. 1,139,332; May 11; Gaz. vol. 214; p. 602.
- Boyd, Thomas A., Glasgow, Scotland. Spinning and twisting paper and other fibrous materials. No. 1,139,333; May 11; Gaz. vol. 214; p. 602.
- Boyd, William, Dundee, Scotland. Depositing into chocolate confectionery centers of fruit products or other foodstuffs. No. 1,138,929; May 11; Gaz. vol. 214; p. 462.
- Boyd, William C. (See Martin, James S., assignor.)
- Boyd, William H., Mount Victory, Ohio. Roofing-bracket. No. 1,127,173; Feb. 2; Gaz. vol. 211; p. 179.
- Boyd, William J. (See Killefer and Boyd.)
- Boyd, William T., Scranton, Tex. Peanut-harvester. No. 1,154,368; Sept. 21; Gaz. vol. 218; p. 779.
- Boyd, William T., Scranton, Tex. Receptacle for peanut-harvesters. No. 1,158,974; Nov. 2; Gaz. vol. 220; p. 195.
- Boyde, Maude, New York, N. Y. Writer's guide and pad. No. 1,150,990; Aug. 24; Gaz. vol. 217; p. 1109.
- Boyden, John H., Glenn Dale, Md. Electric indicating system. No. 1,131,202; Mar. 9; Gaz. vol. 212; p. 500.
- Boyden, Llewellyn W. (See Root and Boyden.)
- Boye, James H., Chicago, assignor to The Bore Needle Company, Ravenswood Park Station, Chicago, Ill. Holder for balls and spools of strand material. No. 1,130,658; Mar. 2; Gaz. vol. 212; p. 75.
- Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Combination thimble and needle-threader. No. 1,143,249; June 15; Gaz. vol. 215; p. 836.
- Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Ribbon-leader. No. 1,161,448; Nov. 23; Gaz. vol. 220; p. 1204.
- Boye Needle Company, The. (See Boye, James H., assignor.)
- Boyea, Oliver. (See Christy, Guy H., assignor.)
- Boyer, Alden S., assignor, by mesne assignments, to A. G. McCaleb, Chicago, Ill. Insole. No. 1,144,291; June 22; Gaz. vol. 215; p. 1223.
- Boyer, Charles T., Indianapolis, Ind. Automobile fuel-tank. No. 1,150,332; Aug. 17; Gaz. vol. 217; p. 824.
- Boyer, Earl F. (See Watson and Boyer.)
- Boyer, George B., Lansdale, Pa. Apparatus for sprouting grain. No. 1,124,844; Jan. 12; Gaz. vol. 210; p. 621.
- Boyer, Joseph, assignor of one-half to J. Boyer, Jr., and one-half to W. A. C. Miller, Jr., Detroit, Mich. Gearing. No. 1,149,333; Aug. 10; Gaz. vol. 217; p. 406.
- Boyer, Murray C., Riverton, N. J., assignor to Philadelphia Steel & Wire Co., Philadelphia, Pa. Reinforcing means for concrete construction. No. 1,147,603; July 20; Gaz. vol. 216; p. 960.
- Boyer, Warren L., Kingston, N. Y., assignor to Bemis Car Truck Company, Springfield, Mass. Brake-head. No. 1,152,391; Sept. 7; Gaz. vol. 218; p. 4.
- Boyer, William W. E., Oklahoma, Okla. Cultivator or plow attachment. No. 1,139,840; May 18; Gaz. vol. 214; p. 819.
- Boyes, William H., Brooklyn, N. Y. Vehicle-tire. No. 1,141,908; June 1; Gaz. vol. 215; p. 289.
- Boylan, James D., Ann Arbor, Mich. Tobacco-can. No. 1,148,947; Aug. 3; Gaz. vol. 217; p. 163.
- Boyle, Albert C., Jr., Laramie, Wyo. Grinding and polishing machine. No. 1,134,944; Apr. 6; Gaz. vol. 213; p. 307.
- Boyle, Albert J., Baltimore, Md. Sewer-pipe. No. 1,158,415; Oct. 26; Gaz. vol. 219; p. 1200.
- Boyle, Albert J., Baltimore, Md. Sewer-pipe. No. 1,158,416; Oct. 26; Gaz. vol. 219; p. 1200.
- Boyle, Albert J., Baltimore, Md. Mold for making sewer-pipes. No. 1,162,127; Nov. 30; Gaz. vol. 220; p. 1487.
- Boyle, Francis, New York, N. Y., assignor to United States Rubber Company, Rubber sole. No. 1,137,724; Apr. 27; Gaz. vol. 213; p. 1407.
- Boyle, Frank H., Champaign, Ill. Trolley-wire switch. No. 1,148,439; July 27; Gaz. vol. 216; p. 1281.
- Boyle, Homer L., assignor of one-half to S. H. Davis, Lansing, Mich. Vacuum or suction sweeper. No. 1,124,997; Jan. 12; Gaz. vol. 210; p. 675.
- Boyle, John T., Mount Vernon, Ill. Make-and-break device for electric circuits. No. 1,165,312; Dec. 21; Gaz. vol. 221; p. 986.
- Boyle, Magnus F., et al. (See Webb, Ferdinand, assignor.)
- Boyle, Raymond E., Chicago, Ill. Vehicle-signal. No. 1,142,016; June 8; Gaz. vol. 215; p. 364.
- Boyle, Theodore T., assignor to Deadlock Elevator Safety Company, Detroit, Mich. Elevator safety device. No. 1,125,948; Jan. 26; Gaz. vol. 210; p. 1081.
- Boyer, Emanuel J. (See Greist and Boyler.)
- Boyles, John H., Winston-Salem, N. C. Steaming apparatus. No. 1,141,760; June 1; Gaz. vol. 215; p. 237.
- Boylston Manufacturing Company, The. (See Ballard, Harrie A., assignor.)
- Boylston Manufacturing Company, The. (See Erickson, Edward, assignor.)
- Boynton, Albert B. (See Lafon, Alphonse, assignor.)
- Boynton, Frederick C., Springpark, assignor of one-half to E. R. Gaylord, Minneapolis, Minn. Combined scraper and rake. No. 1,138,840; May 11; Gaz. vol. 214; p. 432.
- Boynton, John J., et al. (See Buchanan, Clinton C., assignor.)
- Boynton, Seth W. (See Leonard and Boynton.)
- Boyrle, Harry E. (See Tracy, Hayden H., assignor.)
- Bozard, Harrison B., La Crosse, Wis. Fuel-burning apparatus. No. 1,154,606; Sept. 28; Gaz. vol. 218; p. 887.
- Bozarth, John A., El Paso, Tex. Garden implement. No. 1,138,274; May 4; Gaz. vol. 214; p. 193.
- Bozell, Harold V., and H. B. Dwight, Norman, Okla. Molding and baking machine. No. 1,160,368; Nov. 16; Gaz. vol. 220; p. 772.
- Bozic, Joseph, Johnstown, Pa. Register. No. 1,141,309; June 1; Gaz. vol. 215; p. 79.
- Bozym, Alexander, Charleroi, Pa. Driving mechanism. No. 1,161,601; Nov. 23; Gaz. vol. 220; p. 1256.
- Braatz, Fritz et al. (See Forsgard, Edward F., assignor.)
- Brabson, Tom, assignor to G. W. Frank, Brooklyn, N. Y. Soldering-iron holder and heater. No. 1,162,972; Dec. 7; Gaz. vol. 221; p. 83.
- Brace, Henry P. (See Turcs, William, assignor.)
- Brace, R. J., et al. (See Miner, Frank A., assignor.)
- Bracey, Henry C., New York, N. Y. Spirit-level. No. 1,129,785; Feb. 23; Gaz. vol. 211; p. 1213.
- Bracey, Monsel, Thomasville, Ga. Tire-core. No. 1,140,242; May 18; Gaz. vol. 214; p. 960.
- Brach, Leon S., New York, N. Y. Grounding device. No. 1,138,186; May 4; Gaz. vol. 214; p. 163.
- Brachey, John B., et al. (See Robinson, Frank, assignor.)
- Bracht, James T., Memphis, Tenn. Artificial limb. No. 1,155,545; Oct. 5; Gaz. vol. 219; p. 78.
- Brack, William R., assignor to International Typesetting Machine Company, New York, N. Y. Rebound-check for line composing and casting machines. No. 1,161,798; Nov. 23; Gaz. vol. 220; p. 1324.
- Bracken, William J., Zion City, Ill. Hot-air-supply means for internal-combustion engines. No. 1,142,871; June 15; Gaz. vol. 215; p. 701.
- Bräckerbohm, Franz, Wilhelmsruh, near Reinickendorf-Berlin, Germany. Apparatus for making cables. No. 1,157,500; Oct. 19; Gaz. vol. 219; p. 817.
- Brackett, Edward M., Topeka, Kans. Book-stripping machine. No. 1,124,205; Jan. 5; Gaz. vol. 210; p. 344.
- Brackett, John C., Chicago, Ill. Electric-motor-controlling means. No. 1,124,280; Jan. 12; Gaz. vol. 210; p. 419.
- Brackett, Robert G., Rochester, N. Y. Cutter-holder. No. 1,131,818; Mar. 16; Gaz. vol. 212; p. 757.

Alphabetical list of patentees—Continued.

- Bracq, Emil, Lens, France. Ore-roasting furnace. No. 1,125,949; Jan. 26; Gaz. vol. 210; p. 1081.
- Bracy, Edward L., Scotland Neck, assignor to R. H. Wright, Durham, N. C. Tobacco-packaging machine. No. 1,125,802; Jan. 19; Gaz. vol. 210; p. 999.
- Bradač, Ivan, assignor of one-third to S. Rajki and one-third to P. Varga, Akron, Ohio. Metallic rail tie and fastener. No. 1,137,738; May 4; Gaz. vol. 214; p. 7.
- Bradburn, Charles F., Delmer, Ontario, Canada. Shock-absorber. No. 1,141,310; June 1; Gaz. vol. 215; p. 80.
- Bradburn, Joseph A., Syracuse, N. Y. Obtaining potassium chlorid. No. 1,156,388; Oct. 12; Gaz. vol. 219; p. 395.
- Bradburn, Joseph A., Syracuse, N. Y. Obtaining magnesia. No. 1,156,662; Oct. 12; Gaz. vol. 219; p. 492.
- Bradbury, Clifford C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Party-line ringing system. No. 1,158,103; Oct. 26; Gaz. vol. 219; p. 1090.
- Bradbury, Clifford C., Mount Vernon, assignor to Western Electric Company, New York, N. Y. Overflow trunking system. No. 1,161,602; Nov. 23; Gaz. vol. 220; p. 1256.
- Bradbury, Frederick G. (See Sinclair, George, assignor.)
- Bradbury, Frederick G., trustee. (See Sorg, William A., assignor.)
- Bradbury, Roy J., assignor of two-fifths to A. Jackson, Denver, Colo. Safety device for gasoline-motors. No. 1,144,101; June 22; Gaz. vol. 215; p. 1155.
- Braddock, Edward I., Winchester, Mass., assignor to Lamb & Nash Company, Kittery, Me. Wire-bound article. No. 1,156,131; Oct. 12; Gaz. vol. 219; p. 307.
- Braddock, Edward I., Winchester, assignor to Lamb & Nash Co., Boston, Mass. Machine for cutting sheet- or layers. No. 1,160,833; Nov. 16; Gaz. vol. 220; p. 940.
- Braddy, Rufus D., Anaconda, Mont. Fender. No. 1,154,478; Sept. 21; Gaz. vol. 218; p. 814.
- Braden, Robert D. (See Wright, Charles D., assignor.)
- Braden, Robert D., Chicago, Ill., assignor, by mesne assignments, to Oxweld Acetylene Company. Acetylene-gas generator. No. 1,147,843; July 27; Gaz. vol. 216; p. 1071.
- Braden, Robert D., Chicago, Ill., assignor, by mesne assignments, to Oxweld Acetylene Company. Acetylene-gas generator. No. 1,148,496; Aug. 3; Gaz. vol. 217; p. 4.
- Braden, Robert D., assignor to Oxweld-Acetylene Company, Chicago, Ill. Acetylene-gas generator and holder. No. 1,148,497; Aug. 3; Gaz. vol. 217; p. 4.
- Braden, Robert E. (See Moore and Braden.)
- Bradford, Beulah, Norristown, assignor to Lee Tire & Rubber Co., Conshohocken, Pa. Detachable rim for pneumatic tires. No. 1,143,031; June 15; Gaz. vol. 215; p. 758.
- Bradford, Edwin L., Takoma Park, and G. P. Ritter, Washington, D. C., assignors to McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. No. 1,148,006; July 27; Gaz. vol. 216; p. 1127.
- Bradford, Ernest W., *et al.* (See Salkeld, Eugene W., assignor.)
- Bradford, Joseph D., Barnesboro, Pa. Coin-receptacle. No. 1,145,743; July 6; Gaz. vol. 216; p. 269.
- Bradford Machine Tool Company, The. (See Blum, Edward W., assignor.)
- Bradford, McDuffee, Nacona, Tex. Boll-breaking machine. No. 1,123,837; Jan. 5; Gaz. vol. 210; p. 217.
- Bradley, Alexander, and F. A. Elliott, Merritton, Ontario, Canada, assignors to The Paradise Brooder Company. Hen's nest. No. 1,160,250; Nov. 16; Gaz. vol. 220; p. 732.
- Bradley, Charles A., assignor of one-half to N. Frisk, Burnstad, N. D. Adjustable hoe. No. 1,140,020; May 18; Gaz. vol. 214; p. 883.
- Bradley, Charles H., Cleveland, Ohio. Suspender attachment. No. 1,123,231; Jan. 5; Gaz. vol. 210; p. 10.
- Bradley, Charles M., Harvey, Ill. Internal-combustion engine. No. 1,153,191; Sept. 14; Gaz. vol. 218; p. 329.
- Bradley, Charles S., New York, N. Y. Process and apparatus for producing chemical action in gases. No. 1,134,583; Apr. 6; Gaz. vol. 213; p. 182.
- Bradley, Emma, Paw Paw, Mich. Potato-chip cutter. No. 1,148,747; Aug. 3; Gaz. vol. 217; p. 96.
- Bradley, Eugene A., Georgetown, Ky. Camera viewfinder. No. 1,151,157; Aug. 24; Gaz. vol. 217; p. 1167.
- Bradley, Frederick J., Tacoma, Wash. Casting apparatus. No. 1,157,840; Oct. 26; Gaz. vol. 219; p. 997.
- Bradley, Harry L. (See Bradley, Lynde and H. L.)
- Bradley, James N., Denver, Colo. Dirigible headlight for automobiles. No. 1,163,315; Dec. 7; Gaz. vol. 221; p. 203.
- Bradley, John H., Philadelphia, Pa. Therapeutical device. No. 1,134,720; Apr. 6; Gaz. vol. 213; p. 233.
- Bradley, John M., and C. F. Pike, Philadelphia, Pa. Eyeglass-case. No. 1,158,169; Oct. 26; Gaz. vol. 219; p. 1113.
- Bradley, John M., and C. F. Pike, Philadelphia, Pa. Eyeglass-case. No. 1,158,170; Oct. 26; Gaz. vol. 219; p. 1113.
- Bradley, John S., assignor of one-half to W. Watters, Delaware, Ohio. Orchard-heater. No. 1,157,671; Oct. 26; Gaz. vol. 219; p. 938.
- Bradley, John W., Fruitvale, Cal. Explosion-engine. No. 1,155,297; Sept. 28; Gaz. vol. 218; p. 1119.
- Bradley, Joseph H. (See Scroggins, Robert H., assignor.)
- Bradley, Josiah, assignor to A. Westlake, New York, N. Y. Bottle capping and sealing machine. No. 1,160,369; Nov. 16; Gaz. vol. 220; p. 773.
- Bradley, Lyford C. (See Waterman, Bradley, and Andrew.)
- Bradley, Lynde, Milwaukee, Wis. Automatic starter for electric motors. No. 1,161,021; Nov. 23; Gaz. vol. 220; p. 1051.
- Bradley, Lynde and H. L., Milwaukee, Wis. Short-circuiting and retrieving apparatus for rheostats. No. 1,148,656; Aug. 3; Gaz. vol. 217; p. 62.
- Bradley, Lynde and H. L., Milwaukee, Wis. Magnetic short-circuiting switch. No. 1,151,241; Aug. 24; Gaz. vol. 217; p. 1196.
- Bradley, Lynde and H. L., Milwaukee, Wis., assignors to Allen-Bradley Company, Lining containers. No. 1,124,281; Jan. 12; Gaz. vol. 210; p. 419.
- Bradley, Ralph L., Butte, Mont. Stretcher or bed for automobiles. No. 1,134,312; Apr. 6; Gaz. vol. 213; p. 84.
- Bradley, Richard C., Shreveport, assignor of one-half to F. S. Barringer, Monroe, La. Button. No. 1,164,460; Dec. 14; Gaz. vol. 221; p. 650.
- Bradley, Wakeman, Detroit, Mich. Armor. No. 1,154,689; Sept. 28; Gaz. vol. 218; p. 916.
- Bradley, William H., Kiefer, Okla. Pump for oil and like wells. No. 1,129,631; Feb. 23; Gaz. vol. 211; p. 1163.
- Bradley, William J., Troy, assignor to The Rail Joint Company, New York, N. Y. Shears for metal bars. No. 1,127,857; Feb. 9; Gaz. vol. 211; p. 460.
- Bradley, William W., assignor of one-half to W. L. Day, Syracuse, N. Y. Machine for making head chains. No. 1,130,253; Mar. 2; Gaz. vol. 212; p. 143.
- Bradley, William W., and A. M. Campbell, assignors to W. H. Bundy Recording Company, Syracuse, N. Y. Recording-machine. No. 1,150,165; Aug. 17; Gaz. vol. 217; p. 766.
- Bradshaw, Charles E., Waterbury, and W. B. Runk, Derby, assignors to The Robert N. Bassett Company, Shelton, Conn. Wire-straightening machine. No. 1,145,345; July 6; Gaz. vol. 216; p. 128.
- Bradshaw, Edgar. (See Bridge and Bradshaw.)
- Bradshaw, George B., Brooklyn, N. Y. Drying colloidal substances. No. 1,161,603; Nov. 23; Gaz. vol. 220; p. 1257.
- Bradshaw, George B. and W. H., Brooklyn, N. Y.; said George B. Bradshaw assignor to said W. H. Bradshaw. Chicle substitute and making same. No. 1,134,073; Mar. 30; Gaz. vol. 212; p. 1650.
- Bradshaw, Grant D., Westmont borough, Pa. Gas-burner. No. 1,149,622; Aug. 10; Gaz. vol. 217; p. 510.
- Bradshaw, Grant D., Westmont borough, Pa. Stove-burner. No. 1,157,841; Oct. 26; Gaz. vol. 219; p. 997.
- Bradshaw, Ira J., *et al.* (See Regan, Philip C., assignor.)
- Bradshaw, Ira J., assignor of one-fourth to J. S. Whyte, one-fourth to P. C. Regan, and one-fourth to D. Adams, Waukegan, Ill. Rail-anchor. No. 1,124,206; Jan. 5; Gaz. vol. 210; p. 344.
- Bradshaw, James W., assignor, by mesne assignments, to Alpha Brush Company, Troy, N. Y. Brush. No. 1,160,370; Nov. 16; Gaz. vol. 220; p. 773.
- Bradshaw, Richard. (See Whittaker, Bradshaw, and Briggs.)
- Bradshaw, Richard. (See Whittaker, Briggs, and Bradshaw.)
- Bradshaw, Richard, Toronto, Ontario, Canada. Child's crib. No. 1,140,439; May 25; Gaz. vol. 214; p. 1064.
- Bradshaw, Richard, Toronto, Ontario, Canada. Mattress. No. 1,144,888; June 29; Gaz. vol. 215; p. 1456.
- Bradshaw, Richard G., and J. C. Lyell, London, England. Film for color photography and making the same. No. 1,139,633; May 18; Gaz. vol. 214; p. 746.
- Bradshaw, Thomas, East Oakland, Cal. Machine for cutting curved strips. No. 1,162,331; Nov. 30; Gaz. vol. 220; p. 1557.
- Bradshaw, William H. (See Bradshaw, George B. and W. H.)
- Bradshaw, William H., Brooklyn, N. Y. Purified gum and obtaining same. No. 1,133,790; Mar. 30; Gaz. vol. 212; p. 1556.
- Bradshaw, William P., Sydenham, Christchurch, New Zealand. Motor-vehicle. No. 1,138,447; May 4; Gaz. vol. 214; p. 256.
- Bradshaw, William T., Oakland, Cal. Burglar-alarm. No. 1,129,786; Feb. 23; Gaz. vol. 211; p. 1214.
- Bradshaw, William T., and W. E. Joost, Oakland, Cal. Toothpick-vending machine. No. 1,132,239; Mar. 16; Gaz. vol. 212; p. 911.
- Bradshaw, William W., Harrington, Del. Hammock attachment. No. 1,145,290; July 6; Gaz. vol. 216; p. 109.
- Bradsher, Ollie W., Harrisburg, Ark. Self-loading vehicle. No. 1,157,291; Oct. 19; Gaz. vol. 219; p. 743.
- Bradstreet, Arthur H., Haverhill, Mass. Hoel-building form. No. 1,154,744; Sept. 28; Gaz. vol. 218; p. 934.
- Brady, Andrew J. (See Moorefield and Brady.)
- Brady, Charles N. (See Proeger, Julius, assignor.)
- Brady, Edward J., Mendota, Ill. Cultivator. No. 1,124,845; Jan. 12; Gaz. vol. 210; p. 622.

Alphabetical list of patentees—Continued.

- Brady, Edward J., Mendota, Ill. Draft-elevator. No. 1,162,021; Nov. 30; Gaz. vol. 220; p. 1449.
- Brady, Henry H., *et al.* (See Watres, Lewis S., assignor.)
- Brady, Joseph C. (See Long, Roscoe C., assignor.)
- Brady, Joseph D., Pineville, La. Tool for splitting nuts. No. 1,156,745; Oct. 12; Gaz. vol. 219; p. 520.
- Brady, Joseph F., Boise, Idaho. Container. No. 1,162,560; Nov. 30; Gaz. vol. 220; p. 1634.
- Brady, Patrick. (See Boullieu and Brady.)
- Brady, Terence G., Calmar, Iowa. Combined power washing and wringing machine. (Reissue.) No. 13,923; June 8; Gaz. vol. 215; p. 634.
- Brady, Thomas F., Kansas City, Mo. Card-holder. No. 1,148,887; Aug. 3; Gaz. vol. 217; p. 143.
- Bracklein, Alfred H., Baltimore, Md. Bottle-seal. No. 1,145,666; July 6; Gaz. vol. 216; p. 241.
- Braemer, William G. R., and S. C. Bloom, Camden, N. J., assignors to Warren Webster & Company. Means for humidifying air. No. 1,134,976; Apr. 6; Gaz. vol. 213; p. 319.
- Braemer, William G. R., and S. C. Bloom, Camden, N. J., assignors to Warren Webster & Company. Humidifying air. No. 1,142,483; June 8; Gaz. vol. 215; p. 529.
- Braga, Manuel C., Gooding, Idaho. Cam-operating mechanism for windmills. No. 1,165,837; Dec. 28; Gaz. vol. 221; p. 1208.
- Bragassa, Louis D., Augusta, Ga. Wear-compensating bearing. No. 1,124,282; Jan. 12; Gaz. vol. 210; p. 420.
- Braddon, Herbert J., assignor of one-half to A. J. Nolin-sky, Rock Island, Ill. Shoe-button-removing machine. No. 1,133,226; Mar. 23; Gaz. vol. 212; p. 1316.
- Brage, Carl O. (See Powell and Brage.)
- Bragz, Edward, Farmerville, La. Seat. No. 1,161,604; Nov. 23; Gaz. vol. 220; p. 1257.
- Bragz, Julius, assignor of one-fourth to himself, one-fourth to S. Winchester, one-fourth to V. L. Plummer, Huntington, Ore., and one-fourth to J. F. Barnes, Nampa, Idaho. Brake-head. No. 1,137,252; Apr. 27; Gaz. vol. 213; p. 1245.
- Bragstad, Adolph N., assignor to Bragstad Concrete Machinery Co., Inc., Canton, S. D. Automatic cleaning-hammer. No. 1,125,950; Jan. 26; Gaz. vol. 210; p. 1082.
- Bragstad Concrete Machinery Co. (See Bragstad, Adolph N., assignor.)
- Brall, Herbert. (See Urle, James W., assignor.)
- Brainard, Charles E., Chicago, Ill. Rotary pulverizer. No. 1,144,102; June 22; Gaz. vol. 215; p. 1156.
- Brainard, Sidney W., Akron, Ohio, assignor to The Automatic Sprinkler Company of America. Automatic fire-extinguisher system. No. 1,165,886; Dec. 28; Gaz. vol. 221; p. 1051.
- Braine, Bancroft G. (See Braine, Lawrence F. and B. G.)
- Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,141,440; June 1; Gaz. vol. 215; p. 127.
- Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Means for insulating rail-joints. (Reissue.) No. 13,994; Oct. 19; Gaz. vol. 219; p. 870.
- Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,162,973; Dec. 7; Gaz. vol. 221; p. 83.
- Braine, Bancroft G., and J. G. Delfox, Flushing, assignors to The Rail Joint Company, New York, N. Y. Inter-locked insulation for rail-joints. No. 1,133,921; Mar. 30; Gaz. vol. 212; p. 1600.
- Braine, Lawrence F. and B. G., assignors to The Rail Joint Company, New York, N. Y. Renewable insulation for rail-joints. No. 1,133,920; Mar. 30; Gaz. vol. 212; p. 1600.
- Brainerd, Charles R. (See Wilkins, Frederick M., assignor.)
- Braithwaite, Cora B., Minneapolis, Minn. Spool-carrier. No. 1,153,021; Sept. 7; Gaz. vol. 218; p. 235.
- Brake, Archibald, Toronto, Ontario, Canada. Brake-shoe. No. 1,143,494; June 15; Gaz. vol. 215; p. 920.
- Brambach Piano Company. (See Avisus, Leopold, assignor.)
- Brambach Piano Company. (See Flint, Arthur J., assignor.)
- Bramberry, William A., Norfolk, Va. Self-locking seal. No. 1,123,838; Jan. 5; Gaz. vol. 210; p. 218.
- Brankamp, Henry C., San Jose, Cal. Non-refillable bottle. No. 1,123,987; Jan. 5; Gaz. vol. 210; p. 267.
- Brankamp, John H., Portland, Ore. Roundabout. No. 1,150,245; Aug. 17; Gaz. vol. 217; p. 796.
- Brankamp, John H., Portland, Ore. Roundabout. No. 1,150,246; Aug. 17; Gaz. vol. 217; p. 796.
- Bramley, Matthew F., Cleveland, Ohio. Inclined-track construction. No. 1,149,623; Aug. 10; Gaz. vol. 217; p. 511.
- Branch, Anthony B., and T. G. Ball, Pittsburgh, Pa. Dispensing apparatus. No. 1,132,429; Mar. 16; Gaz. vol. 212; p. 978.
- Branch, Charles J., Philadelphia, Pa. Concrete-insert. No. 1,146,686; July 13; Gaz. vol. 216; p. 619.
- Brand, Edward D. (See Parke and Brand.)
- Brand, Frederick A. (See Knapp, Sewell A., assignor.)
- Brand, George, Brooklyn, N. Y. Suction-head connection. No. 1,136,889; Apr. 20; Gaz. vol. 213; p. 1076.
- Brand, George, Brooklyn, N. Y. Vacuum-cleaning machine. No. 1,136,890; Apr. 20; Gaz. vol. 213; p. 1077.
- Brand, George, Brooklyn, N. Y., assignor to The Brand Manufacturing Corporation. Vacuum cleaning-machine. No. 1,145,112; July 6; Gaz. vol. 216; p. 49.
- Brand, George B., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,134,991; Apr. 13; Gaz. vol. 213; p. 369.
- Brand, George B., Syracuse, assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,151,337; Aug. 24; Gaz. vol. 217; p. 1226.
- Brand, George P., New York, N. Y. Pneumatic action. No. 1,133,257; Mar. 30; Gaz. vol. 212; p. 1364.
- Brand, George P., New York, N. Y. Expression device for automatic musical instruments. No. 1,141,607; June 1; Gaz. vol. 215; p. 186.
- Brand, George P., New York, N. Y. Sheet-centralizing mechanism. No. 1,143,684; June 22; Gaz. vol. 215; p. 1010.
- Brand, John F., Utica, N. Y. Bottle-label. No. 1,159,164; Nov. 2; Gaz. vol. 220; p. 261.
- Brand Manufacturing Corporation, The. (See Brand, George, assignor.)
- Brand, Maurice B., Chicago, Ill. Milk-bottle holder. No. 1,147,368; July 20; Gaz. vol. 216; p. 877.
- Brand, Maurice B., Chicago, Ill. Keyless lock. No. 1,151,242; Aug. 24; Gaz. vol. 217; p. 1196.
- Brande, Louis L., Pittsburgh, Pa., assignor to Goodman Manufacturing Company, Chicago, Ill. Approach for rack-rails. No. 1,137,694; Apr. 27; Gaz. vol. 213; p. 1397.
- Brandelle, Joseph N., Chicago, Ill. Bath-cabinet. No. 1,157,842; Oct. 26; Gaz. vol. 219; p. 998.
- Brandenberg, Heinz, Schwientochlowitz, Germany. Theodolite. No. 1,128,578; Feb. 16; Gaz. vol. 211; p. 759.
- Brandenburg, Albert F., assignor of one-half to J. M. Chase, Dayton, Ohio. Interchangeable-letter sign. No. 1,159,465; Nov. 9; Gaz. vol. 220; p. 401.
- Brandenburg, Edwin, Brussels, Belgium. Sectioning means for electric stations provided with accumulators. No. 1,137,046; Apr. 27; Gaz. vol. 213; p. 1169.
- Brandenburg, Emil A., Waverly, Iowa. Door for silos and the like. No. 1,162,022; Nov. 30; Gaz. vol. 220; p. 1449.
- Brandenburg, Joseph F., *et al.* (See Atterbury and Matthews, assignors.)
- Brandenburg, William, and D. J. Barker, Picton, Ontario, Canada. Cook-stove. No. 1,138,622; May 11; Gaz. vol. 214; p. 353.
- Brandenstein, Daniel. (See Fischer, Jacob, assignor.)
- Brandenstein, Daniel. (See Fischer and Brandenstein.)
- Brander, Lewis W., and C. H. Surner, Concord, N. C., said Surner assignor to said Brander. Jacquard mechanism for looms. No. 1,158,782; Nov. 2; Gaz. vol. 220; p. 130.
- Brandetti, Alberto, Detroit, Mich. Wrench. No. 1,161,287; Nov. 23; Gaz. vol. 220; p. 1147.
- Brandon, Carl, Indianapolis, Ind. Electric signaling device. No. 1,164,572; Dec. 14; Gaz. vol. 221; p. 686.
- Brandon, James S., Albin, Wyo. Line-splice. No. 1,155,334; Oct. 5; Gaz. vol. 219; p. 4.
- Brandstatter, Frank. (See Veranich, Frank N., assignor.)
- Brandstetter, Georg, Hohenstadt, and R. Freund, Vienna, Austria-Hungary. Air-pump. No. 1,126,613; Jan. 26; Gaz. vol. 210; p. 1324.
- Brandt, Bernard L., deceased, Dundee, Mich.; S. A. Brandt, administratrix. Spring tension device. No. 1,137,722; Apr. 27; Gaz. vol. 213; p. 1407.
- Brandt Cashier Company. (See Brandt, Edward J., assignor.)
- Brandt Cashier Company. (See Foster, Herbert, assignor.)
- Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Coin-delivery machine. No. 1,129,063; Feb. 23; Gaz. vol. 211; p. 964.
- Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Automatic cashier. No. 1,143,167; June 15; Gaz. vol. 215; p. 805.
- Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Coin-delivery machine. No. 1,143,685; June 22; Gaz. vol. 215; p. 1010.
- Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Coin-delivery apparatus. No. 1,160,251; Nov. 16; Gaz. vol. 220; p. 733.
- Brandt, Ernest H., Clermont, Iowa. Ratchet mechanism for cement-mixers. No. 1,125,052; Jan. 19; Gaz. vol. 210; p. 730.
- Brandt, Louis, Louisburg, Wis. Potato-gatherer. No. 1,131,465; Mar. 9; Gaz. vol. 212; p. 597.
- Brandt, Sarah A., administratrix. (See Brandt, Bernard L.)
- Brandt, Theodore J., Gresham, assignor, by mesne assignments, to National Specialty Company, Portland, Ore. Ice-cream-cone disher. No. 1,138,533; May 4; Gaz. vol. 214; p. 283.
- Brandt, Wilhelm, Osterode, Germany. Iron structure. No. 1,166,399; Dec. 28; Gaz. vol. 221; p. 1411.
- Brandwood, Edward. (See Brandwood, John T., and E.)
- Brandwood, John T., and E. Bury, England. Apparatus for dyeing and like treatment of textile material. No. 1,125,803; Jan. 19; Gaz. vol. 210; p. 999.
- Brandwood, John T., and E. Bury, England. Perforated bobbin, tube, or the like for use in textile industries. No. 1,132,240; Mar. 16; Gaz. vol. 212; p. 911.

Alphabetical list of patentees—Continued.

- Brandwood, John, T., and E. Bury, England. Beam-warping machine. No. 1,145,857; July 6; Gaz. vol. 216; p. 308.
- Brandwood, John, T., and E. Bury, England. Compact dyeing and like machinery. No. 1,145,858; July 6; Gaz. vol. 216; p. 309.
- Brandwood, Thomas. (See Brandwood, John, T., and E.)
- Brangier, Pierre A. (See Zachert and Brangier.)
- Brannington, Edwin O., assignor to A. Hochreiter, Rochester, N. Y. Signal. No. 1,136,402; Apr. 20; Gaz. vol. 213; p. 905.
- Brant, Edmund D., Canton, Ohio. Surgical device. No. 1,144,103; June 22; Gaz. vol. 215; p. 1156.
- Brantingham, Allen C., Toledo, Ohio, assignor to C. G. Hammond, trustee, Silver Creek, N. Y. Grain-heater controller. No. 1,158,623; Nov. 2; Gaz. vol. 220; p. 76.
- Brantingham, Allen C., Toledo, Ohio, assignor to C. G. Hammond, trustee, Silver Creek, N. Y. Self-controlling heater. No. 1,158,624; Nov. 2; Gaz. vol. 220; p. 76.
- Brantingham, Allen C., Toledo, Ohio, assignor to C. G. Hammond, trustee, Silver Creek, N. Y. Heater control mechanism. No. 1,161,834; Nov. 30; Gaz. vol. 220; p. 1383.
- Brantingham, Allen C., Toledo, Ohio, assignor to C. G. Hammond, trustee, Silver Creek, N. Y. Heater control device. No. 1,161,835; Nov. 30; Gaz. vol. 220; p. 1383.
- Brashear, Peter C., *et al.* (See Downey and Wood, assignors.)
- Brasington, George E., *et al.* (See Friberg, John G., assignor.)
- Brassell, William E., Philadelphia, Pa., assignor to E. L. Masure Company, Chicago, Ill. Fringe-knotting machine. No. 1,134,721; Apr. 6; Gaz. vol. 213; p. 233.
- Brassert, Hermann A., and C. J. Bacon, Chicago, Ill. Gas-washing. No. 1,123,232; Jan. 5; Gaz. vol. 210; p. 10.
- Brasseur, Charles L. A., New York, N. Y. Screen for color photography. No. 1,154,607; Sept. 28; Gaz. vol. 218; p. 887.
- Brasseur, Charles L. A., New York, N. Y. Color photography. No. 1,163,207; Dec. 7; Gaz. vol. 221; p. 166.
- Brassington, John W., Wilmington, Del. Expandable rope-sheave. No. 1,159,165; Nov. 2; Gaz. vol. 220; p. 261.
- Brasted, Clair H., assignor to The Ludlow Typograph Company, Cleveland, Ohio. Casting mechanism for typographs. No. 1,146,302; July 13; Gaz. vol. 216; p. 483.
- Bratt, Fred A., *et al.* (See Chapman, Frank M., assignor.)
- Bratzel, George V., Hebron, N. D. Window-button. No. 1,165,151; Dec. 21; Gaz. vol. 221; p. 932.
- Brauer, Paul E., Ridgeway, N. C. Muffler. No. 1,163,128; Dec. 7; Gaz. vol. 221; p. 137.
- Brauer, Richard B., Richmond, Va. Gas-engine primer. No. 1,155,205; Sept. 28; Gaz. vol. 218; p. 1092.
- Brauer, William A., North Tonawanda, N. Y. Valve for self-playing musical instruments. No. 1,131,203; Mar. 9; Gaz. vol. 212; p. 507.
- Braught, John D., Carlisle, Pa. Acrobatic toy. No. 1,143,495; June 15; Gaz. vol. 215; p. 920.
- Braun, Emil J., New York, N. Y. Humidifier. No. 1,137,570; Apr. 27; Gaz. vol. 213; p. 1357.
- Braun, Jacob G., Chicago, Ill. Fireproof building construction. No. 1,157,078; Oct. 19; Gaz. vol. 219; p. 667.
- Braun, Otto E., Brooklyn, N. Y. Vehicle wheel-lock. No. 1,141,100; June 1; Gaz. vol. 215; p. 4.
- Braun, Otto E., Brooklyn, N. Y. Vehicle-lock. No. 1,158,891; Nov. 2; Gaz. vol. 220; p. 170.
- Braun, William A., assignor to Dover Manufacturing Company, Canal Dover, Ohio. Electric sad-iron. No. 1,138,841; May 11; Gaz. vol. 214; p. 432.
- Braune, Friedrich, Clifton, Tex. Cultivator. No. 1,154,841; Sept. 28; Gaz. vol. 218; p. 966.
- Brauninger, Joseph, Trenton, N. J. Gas-stove and water-heater. No. 1,150,333; Aug. 17; Gaz. vol. 217; p. 825.
- Brauninger, Joseph, Trenton, N. J. Gas-stove. No. 1,150,334; Aug. 17; Gaz. vol. 217; p. 825.
- Brautigam, Henry, assignor of one-half to P. Weiss, Denver, Colo. Surveying instrument. No. 1,125,053; Jan. 19; Gaz. vol. 210; p. 730.
- Bravi, Giuseppe, Lansdale, assignor of one-half to S. T. Alleva, Norristown, Pa. Springless suspension for vehicles. No. 1,142,395; June 8; Gaz. vol. 215; p. 498.
- Brawner, Harry O., Baltimore, Md. Sprinkler for bottles. No. 1,159,166; Nov. 2; Gaz. vol. 220; p. 262.
- Bray, Alvin G., Eatonton, Ga. Rock-collecting machine. No. 1,126,695; Feb. 2; Gaz. vol. 211; p. 9.
- Bray, Edward W., Norfolk, Va. Water-circulator for steam-boilers. No. 1,139,334; May 11; Gaz. vol. 214; p. 603.
- Bray, John R., New York, N. Y. Method of and articles for producing moving pictures. No. 1,159,740; Nov. 9; Gaz. vol. 220; p. 499.
- Bray, William C., Newton, assignor to Tubular Rivet & Stud Company, Boston, Mass. Rivet and cap setting machine. No. 1,161,022; Nov. 23; Gaz. vol. 220; p. 1051.
- Brayton, Charles W., assignor to Waterloo Cement Machinery Corporation, Waterloo, Iowa. Controlling mechanism for mixing-machines and the like. No. 1,145,829; July 6; Gaz. vol. 216; p. 299.
- Brayton, James T., deceased, Chicago, Ill.; L. Brayton, executrix. Goggles. No. 1,146,549; July 13; Gaz. vol. 216; p. 573.
- Brayton, Libbie, executrix. (See Brayton, James T.)
- Brazil, Thomas F., New Bedford, assignor to Draper Company, Hopedale, Mass. Protecting-tip for drop-wire-bar ends. No. 1,144,686; June 29; Gaz. vol. 215; p. 1385.
- Brazel, David F. (See Lawrie and Brazel.)
- Brazell, Charles H., St. Louis, Mo. Coin-controlled dispensing apparatus. No. 1,156,746; Oct. 12; Gaz. vol. 219; p. 520.
- Brazelle, Benjamin, St. Louis, Mo. Pneumatic tool. No. 1,132,649; Mar. 23; Gaz. vol. 212; p. 1108.
- Brazier, Charles G., assignor to Knox Hat Company, Inc., New York, N. Y. Hat. No. 1,144,321; June 22; Gaz. vol. 215; p. 1233.
- Brazil, Manoel A., Pará, Brazil. Life-preserver. No. 1,127,174; Feb. 2; Gaz. vol. 211; p. 180.
- Breach, James J., South Weymouth, assignor to Merriman Brothers, Boston, Mass. Lawn-edge trimmer. No. 1,135,989; Apr. 20; Gaz. vol. 213; p. 759.
- Breakey, John W. (See Jones, Breakey, and Casey.)
- Breath, William L., Brooklyn, N. Y. Internal-combustion engine. No. 1,133,531; Mar. 30; Gaz. vol. 212; p. 1463.
- Breath, William L., New York, N. Y. Carbureter. No. 1,153,891; Sept. 21; Gaz. vol. 218; p. 614.
- Brecht, Albert, I'forzheim, Germany. Producing units composed of different metals. No. 1,159,644; Nov. 9; Gaz. vol. 220; p. 464.
- Breckenridge, John G., assignor to The Ridgely Trimmer Company, Springfield, Ohio. Folding board for paper-hangers. No. 1,134,100; Apr. 6; Gaz. vol. 213; p. 7.
- Bredchoft, Edward F., St. Louis, Mo. Account-book. No. 1,158,892; Nov. 2; Gaz. vol. 220; p. 170.
- Bredenberg, Alfred, Champlain, N. Y., assignor of one-half to The Sheridan Iron Works and one-half to T. W. & C. B. Sheridan Company. Bookbinding-machine. No. 1,129,064; Feb. 23; Gaz. vol. 211; p. 964.
- Bredt, Otto P. C., New York, N. Y. Production of concentrated radium residue and the separation of radium compounds therefrom. No. 1,154,230; Sept. 21; Gaz. vol. 218; p. 728.
- Bredt, Otto P. C., assignor of three-fifths to Radium Therapy Corporation, New York, N. Y. Concentrating radium ores and residues. No. 1,154,231; Sept. 21; Gaz. vol. 218; p. 728.
- Breed, George, Philadelphia, Pa., assignor to Lyrachord Company, New York, N. Y. Electric switch. No. 1,164,984; Dec. 21; Gaz. vol. 221; p. 873.
- Breehl, Alfred, Louisville, Ky. Trunk. No. 1,165,063; Dec. 21; Gaz. vol. 221; p. 899.
- Breen, Charles A., Southam, N. D. Music-turner. No. 1,128,939; Feb. 16; Gaz. vol. 211; p. 886.
- Breese, Charles P., Norfolk, Va. Valve for internal-combustion engines. No. 1,123,233; Jan. 5; Gaz. vol. 210; p. 11.
- Breeze, George A., Detroit, Mich. Carbureter. No. 1,159,167; Nov. 2; Gaz. vol. 220; p. 262.
- Breezley, Ernest L., and F. Lane, Mount Pleasant, Iowa. Fertilizer-distributor. No. 1,135,492; Apr. 13; Gaz. vol. 213; p. 542.
- Brégéras, Gaston J. (See Bellem and Brégéras.)
- Brehmer, Herman C., assignor to H. W. Butterworth & Sons Company, Philadelphia, Pa. Pressure-motor. No. 1,144,322; June 22; Gaz. vol. 215; p. 1233.
- Breidert, George C., assignor to Auto Utilities Manufacturing Company, Chicago, Ill. Ventilating device. No. 1,147,369; July 20; Gaz. vol. 216; p. 877.
- Breirly, Felix, New Bedford, Mass. Skirt-drafting instrument. No. 1,142,298; June 8; Gaz. vol. 215; p. 462.
- Breitenbaugh, William F., Philadelphia, Pa. Adjustable golf-club. No. 1,137,457; Apr. 27; Gaz. vol. 213; p. 1820.
- Breithut, Benjamin T., Asbury Park, N. J. Bottle-cap opener. No. 1,123,234; Jan. 5; Gaz. vol. 210; p. 11.
- Breitung, Conradin A., Seattle, Wash. Internal-explosion engine. No. 1,147,370; July 20; Gaz. vol. 216; p. 878.
- Breitung, Edward N., Marquette, Mich., and A. Pick, assignors to Subterranean Heater Corporation, New York, N. Y. Treating subterranean wells. No. 1,152,392; Sept. 7; Gaz. vol. 218; p. 4.
- Brell, Julius J., New York, N. Y. Snap-button. No. 1,152,785; Sept. 7; Gaz. vol. 218; p. 148.
- Brelle, Frank, Sr., San Jose, Cal. Fruit-jar. No. 1,142,231; June 8; Gaz. vol. 215; p. 439.
- Bremer & Bruckmann. (See Buhles, William C., assignor.)
- Bremer & Bruckmann. (See Dempewolf, Otto, assignor.)
- Bremer & Bruckman. (See Sharp, Lee C., assignor.)
- Bremer, Herman C., Florence, Mo. Automatic mud-rim for automobiles. No. 1,145,667; July 6; Gaz. vol. 216; p. 242.
- Bremer, John. (See Coffield and Bremer.)
- Bremer, Joseph H., Tampa, Fla. Pen-point remover. No. 1,153,756; Sept. 14; Gaz. vol. 218; p. 530.
- Bremer, Walter H., Kansas City, Mo. Holster for ice-picks. No. 1,131,669; Mar. 16; Gaz. vol. 212; p. 702.
- Brending, Frederick J., Brainerd, Minn. Attachment for cooking utensils. No. 1,153,757; Sept. 14; Gaz. vol. 218; p. 530.
- Breneman, Joseph T., Lancaster, Pa. Gravity traveling toy. No. 1,154,088; Sept. 21; Gaz. vol. 218; p. 681.
- Brenizer, Orson W., Philadelphia, Pa., assignor of one-half to D. L. Short, West Collingswood, N. J. Cable-support. No. 1,155,127; Sept. 28; Gaz. vol. 218; p. 1067.

- Brennan, Charles M., Bridgeport, Conn. Trolley-wheel. No. 1,154,170; Sept. 21; Gaz. vol. 218; p. 709.
- Brennan, Charles T., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Screw-slotting machine. No. 1,132,553; Mar. 23; Gaz. vol. 212; p. 1071.
- Brennan, Charles T., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Pointing-tool carriage for wood-screw machines. No. 1,163,885; Dec. 14; Gaz. vol. 221; p. 448.
- Brennan, Daniel, Jr., New York, N. Y. Machine for making blocks. No. 1,124,846; Jan. 12; Gaz. vol. 210; p. 622.
- Brennan, Daniel A. (See Kramer and Brennan.)
- Brennan, John J. (See Brennan, Michael H. and J. J.)
- Brennan, John S., Milwaukee, Wis. Valve for heating systems. No. 1,158,893; Nov. 2; Gaz. vol. 220; p. 170.
- Brennan, Michael H., Devils Lake, N. D., and J. J. Brennan, Girardville, Pa. Heating apparatus. No. 1,154,608; Sept. 28; Gaz. vol. 218; p. 887.
- Brennan, Thomas, Jr. (See Beeman and Brennan.)
- Brennan, Thomas, Jr., Moline, Ill., assignor to Monitor Drill Company, Minneapolis, Minn. Disk furrow-opener. No. 1,149,992; Aug. 10; Gaz. vol. 217; p. 643.
- Brennan, William, Jr. (See McIntyre, Michael J., assignor.)
- Brennan, William R., Hawthorne, near Melbourne, Victoria, Australia. Lock for doors. No. 1,131,992; Mar. 16; Gaz. vol. 212; p. 820.
- Brennecke, Herman J., Chicago, Ill. Goggle-lens connection. No. 1,129,950; Mar. 2; Gaz. vol. 212; p. 40.
- Brenner, Bella B., New York, N. Y. Horseshoe. No. 1,135,657; Apr. 13; Gaz. vol. 213; p. 602.
- Brunessell, John W., Brooklyn, N. Y. Die-stock oiler. No. 1,147,781; July 27; Gaz. vol. 216; p. 1048.
- Brent, Charles, Buffalo, N. Y. Vacuum-pump. No. 1,145,181; July 6; Gaz. vol. 216; p. 72.
- Brent, Charles, Kenora, Ontario, Canada. Fire-extinguishing apparatus. No. 1,157,614; Oct. 19; Gaz. vol. 219; p. 852.
- Breon, George C., Sunbury, Pa. Table-slide. No. 1,123,673; Jan. 5; Gaz. vol. 210; p. 163.
- Bresce, James M., Mattoon, Ill. Road-grading machine. No. 1,128,654; Feb. 16; Gaz. vol. 211; p. 785.
- Bresce, James M., Mattoon, Ill. Road-machine. No. 1,128,655; Feb. 16; Gaz. vol. 211; p. 785.
- Bresce, James M., Mattoon, Ill. Road-machine. No. 1,143,032; June 15; Gaz. vol. 215; p. 758.
- Breslin, James J., et al. (See Mundy, William J., assignor.)
- Breslin, John W., et al. (See Mundy, William J., assignor.)
- Broslove, Abel H., and A. Wetzig, assignors to S. O. Powell, Chicago, Ill. Bottle-closure. No. 1,155,639; Oct. 5; Gaz. vol. 219; p. 109.
- Bresnahan, John, Newark, N. J. Feed-bag. No. 1,145,744; July 6; Gaz. vol. 216; p. 270.
- Brest, Alfred E., Williamsport, Pa. Toy. No. 1,129,065; Feb. 23; Gaz. vol. 211; p. 964.
- Breth, Maximilian, New York, N. Y. Cushion positive clutch. No. 1,126,374; Jan. 26; Gaz. vol. 210; p. 1236.
- Breton, Rene J., Stockton, Cal. Switch-stand. No. 1,161,449; Nov. 23; Gaz. vol. 220; p. 1204.
- Bretsch, Garfield H., San Diego, Cal. Dental instrument. No. 1,152,281; Aug. 31; Gaz. vol. 217; p. 1597.
- Brett, Albert H., Mason City, Iowa. Device for dimming the headlights of automobiles. No. 1,132,554; Mar. 23; Gaz. vol. 212; p. 1072.
- Brett, Walter B., Kelvedon, England. Tray for printing-type, printing-blocks, and the like. No. 1,129,843; Mar. 2; Gaz. vol. 212; p. 4.
- Brett, William J., Brooklyn, N. Y. Hair-waver. No. 1,139,398; May 11; Gaz. vol. 214; p. 626.
- Brettelle, Ambrose K., assignor of one-half to C. H. Stephens, Chicago, Ill. Gas-burner. No. 1,129,546; Feb. 23; Gaz. vol. 211; p. 1134.
- Bretz, Homer A., Jackson, Mich., assignor to Mineral Electric Company, Chicago, Ill. Automobile-horn. No. 1,157,292; Oct. 19; Gaz. vol. 219; p. 744.
- Breul, Frederick G., Bridgeport, Conn. Shaping wire ends. No. 1,164,254; Dec. 14; Gaz. vol. 221; p. 575.
- Brewer, Alfred A., New York, N. Y., assignor to Ransome International Conduit Co., Dunellen, N. J. Concrete-tunnel form. No. 1,139,335; May 11; Gaz. vol. 214; p. 603.
- Brewer, Carlos W., Minneapolis, Minn. Starting device for automobiles. No. 1,130,959; Mar. 2; Gaz. vol. 212; p. 76.
- Brewer, Charles R., Hyattsville, Md. Puzzle. No. 1,139,253; May 11; Gaz. vol. 214; p. 576.
- Brewer, Harvey, and J. K. Shanaman, Annville; said Brewer assignor to G. P. Speicher, Lebanon, Pa. Combined fishing-rod support and alarm. No. 1,132,158; Mar. 16; Gaz. vol. 212; p. 879.
- Brewer, Jacob, Hazleton, Pa. Stove. No. 1,139,750; May 18; Gaz. vol. 214; p. 787.
- Brewer, James E., Pinson, Tenn. Insect-trap. No. 1,148,748; Aug. 3; Gaz. vol. 217; p. 96.
- Brewer, John H., Silverton, Oreg. Fruit-collecting apparatus. No. 1,138,930; May 11; Gaz. vol. 214; p. 462.
- Brewer, Joseph, New York, N. Y. Photographic-roll film. No. 1,160,037; Nov. 9; Gaz. vol. 220; p. 604.
- Brewer, Joseph A., Washington, D. C., and W. A. Brewer, Long Island City, N. Y. Rake-cleaner. No. 1,136,770; Apr. 20; Gaz. vol. 213; p. 1035.
- Brewer, Joseph J., Greensburg, Pa. Marking-gage. No. 1,166,322; Dec. 28; Gaz. vol. 221; p. 1383.
- Brewer, Malichi C., Nashville, Tenn. Cotton-chopping machine. No. 1,136,930; Apr. 27; Gaz. vol. 213; p. 1127.
- Brewer, Moultrie A., Concord, N. C. Chair. No. 1,136,308; Apr. 20; Gaz. vol. 213; p. 870.
- Brewer, Thomas, Homestead, Fla. Apparatus for building roads. No. 1,124,847; Jan. 12; Gaz. vol. 210; p. 622.
- Brewer, Thomas E., Germantown, Ill. Rotatable headlight. No. 1,166,109; Dec. 28; Gaz. vol. 221; p. 1303.
- Brewer, Walker A. (See Brewer, Joseph A. and W. A.)
- Brewer, William A., Pittsburgh, assignor, by mesne assignments, to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,130,370; Mar. 2; Gaz. vol. 212; p. 183.
- Brewer, William A., Pittsburgh, assignor, by mesne assignments, to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,130,371; Mar. 2; Gaz. vol. 212; p. 184.
- Brewer, William A., Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Metal car-roof. No. 1,130,372; Mar. 2; Gaz. vol. 212; p. 184.
- Brewer, William A., Pittsburgh, assignor, by mesne assignments, to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,145,545; July 6; Gaz. vol. 216; p. 199.
- Brewer, William A., Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Metal roof for railway-cars. No. 1,145,546; July 6; Gaz. vol. 216; p. 200.
- Brewer, William A., Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Pressed-steel carline. No. 1,145,547; July 6; Gaz. vol. 216; p. 200.
- Brewer, William A., Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Support for running-boards of freight-cars. No. 1,145,548; July 6; Gaz. vol. 216; p. 200.
- Brewer, William A., Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Latitudinal running-board extension for freight-cars. No. 1,145,549; July 6; Gaz. vol. 216; p. 201.
- Brewington, Henry S., Baltimore, Md. Paper container. No. 1,125,644; Jan. 19; Gaz. vol. 210; p. 940.
- Brewington, Henry S., Baltimore, Md. Drapery-hook. No. 1,143,100; June 15; Gaz. vol. 215; p. 783.
- Brewington, Henry S., assignor of one-third to C. G. Guth and one-third to R. B. Tippet, Baltimore, Md. Candy-pulling machine. No. 1,130,683; Mar. 2; Gaz. vol. 212; p. 294.
- Brewitt, Walter. (See Goldschmidt and Brewitt.)
- Brewster, Arthur P. (See Roberts, Brewster, and Bryson.)
- Brewster, Elmer J., assignor of one-half to J. Murrin, Chicago, Ill. Mechanism for holding tires of locomotive driving-wheels, &c. No. 1,145,182; July 6; Gaz. vol. 216; p. 73.
- Brewster Film Corporation. (See Brewster, Percy D., assignor.)
- Brewster, Percy D., East Orange, assignor to Brewster Film Corporation, Newark, N. J. Photographic film. No. 1,145,968; July 13; Gaz. vol. 216; p. 366.
- Breyfogel, William L., Lake George, N. Y., assignor to California Pharmacy Company, San Francisco, Cal. Root-root cracker or food. No. 1,161,450; Nov. 23; Gaz. vol. 220; p. 1205.
- Breymaier, William. (See Berry and Breymaier.)
- Briant, Lester H., Webster, Kans. Coin and stamp depository. No. 1,144,526; June 29; Gaz. vol. 215; p. 1329.
- Brice, Alfred L. (See Brice, Milton D. and A. L.)
- Brice, John F., Bensalem, Pa. Internal-combustion engine. No. 1,149,178; Aug. 10; Gaz. vol. 217; p. 347.
- Brice, John F., Bensalem, Pa. Internal-combustion engine. No. 1,149,179; Aug. 10; Gaz. vol. 217; p. 348.
- Brice, Milton D. and A. L., Minneapolis, Minn. Pole-coupling. No. 1,147,844; July 27; Gaz. vol. 216; p. 1071.
- Brickel, Charles A., Neilsonville, Quebec, Canada. Fire-escape. No. 1,136,931; Apr. 27; Gaz. vol. 213; p. 1128.
- Bricken, John, Maywood, Ill., assignor of two-thirds to R. Marks, Des Moines, Iowa. Electrocalculograph. No. 1,157,079; Oct. 19; Gaz. vol. 219; p. 667.
- Bricker, Garland A., Columbus, Ohio. Drainage apparatus. No. 1,143,938; June 22; Gaz. vol. 215; p. 1097.
- Bricker, Samuel P., assignor to National Metal Weather Strip Company, Pittsburgh, Pa. Weather-strip. No. 1,143,033; June 15; Gaz. vol. 215; p. 758.
- Brickerton, Joseph P. (See Roach, James C., assignor.)
- Brickey, Clarence, Morrilton, Ark. Bolt-holder. No. 1,125,454; Jan. 19; Gaz. vol. 210; p. 875.
- Brickey, Ira C., Morrilton, Ark. Attachment for vehicle-tongues. No. 1,125,455; Jan. 19; Gaz. vol. 210; p. 875.
- Brickell, John F. (See Chapman, William C., assignor.)
- Bricknell, Algernon J. G. (See Bricknell, Augustus L., A. J. G., and J. L.)
- Bricknell, Augustus L., A. J. G., and J. L., Carshalton, England. Internal-combustion engine. No. 1,155,335; Oct. 5; Gaz. vol. 219; p. 4.
- Bricknell, John L. (See Bricknell, Augustus L., A. J. G., and J. L.)
- Bridenbaugh, Elmer H. (See Ohmer and Bridenbaugh.)

Alphabetical list of patentees—Continued.

- Bridge, Jonathan. (See Bridge and Bradshaw.)
- Bridge, Robert. (See Cummins, Arthur E., assignor.)
- Bridge, Robert, Rochdale, England. Friction-clutch. No. 1,127,724; Feb. 9; Gaz. vol. 211; p. 411.
- Bridgeport Brass Company. (See Clark, Walter R., assignor.)
- Bridgeport Brass Company. (See Moore, Arthur H., assignor.)
- Bridgeport Brass Company. (See Webster, William R., assignor.)
- Bridgeport Hardware Manufacturing Corporation. (See Platt, Arthur L., assignor.)
- Bridges, Charles A. (See Westmoreland, Andrew J., assignor.)
- Bridges, Charles E., Chicago, assignor to Burgess-Norton Company, Geneva, Ill. Wheel. No. 1,130,951; May 18; Gaz. vol. 214; p. 857.
- Bridges, Charles E., Chicago, Ill., assignor to Autosales Gum and Chocolate Company. Vending device. No. 1,152,931; Sept. 7; Gaz. vol. 218; p. 202.
- Bridges, John, assignor to Universal Swing Joint and Machine Company, Louisville, Ky. Fitting for pipes and rods. No. 1,123,839; Jan. 5; Gaz. vol. 210; p. 218.
- Bridges, Joseph A., San Francisco, Cal. Disappearing window-screen. No. 1,155,546; Oct. 5; Gaz. vol. 219; p. 78.
- Bridges, Mack W., Chicora, Miss. Oar. No. 1,146,841; July 20; Gaz. vol. 216; p. 693.
- Bridges, Walter S., Chicago, Ill. Window-screen. No. 1,131,204; Mar. 9; Gaz. vol. 212; p. 507.
- Bridges, Walter S., Chicago, Ill. Hinge. No. 1,135,349; Apr. 13; Gaz. vol. 213; p. 492.
- Bridges, Walter S., Chicago, Ill. Faucet. No. 1,138,187; May 4; Gaz. vol. 214; p. 164.
- Bridges, William H., Grand Rapids, Mich. Toilet-brush. No. 1,141,662; June 1; Gaz. vol. 215; p. 205.
- Bridwell, Q. V. (See Hardy, Soula G., assignor.)
- Briegleb, Theodore, and M. O. Griswold, Rock Island, Ill., assignors to Midland Supply Co., Davenport, Iowa. Stamp-vending machine. No. 1,162,128; Nov. 30; Gaz. vol. 220; p. 1487.
- Brierley, Henry J., Brooklyn, N. Y. Agitator for barrels. No. 1,156,050; Oct. 12; Gaz. vol. 219; p. 278.
- Brierly, William W., and T. M. Scanlon, assignors to Millbury Steel Foundry Company, Millbury, Mass. Heating-furnace. No. 1,136,861; Apr. 20; Gaz. vol. 213; p. 1067.
- Brigance, Alice O., Navasota, Tex. Cutting implement. No. 1,138,076; May 4; Gaz. vol. 214; p. 125.
- Brigance, Jane H. (See Cooper and Brigance.)
- Bridgen, Burt A., Cleveland, Ohio. Moving-picture machine. No. 1,143,607; June 22; Gaz. vol. 215; p. 984.
- Bridgen, Burt A., East Cleveland, Ohio. Multicolor-moving-picture machine. No. 1,143,608; June 22; Gaz. vol. 215; p. 984.
- Brigel, Leo A., Cheviot, Ohio. Controlling mechanism for automobile-heaters. No. 1,159,566; Nov. 9; Gaz. vol. 220; p. 436.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,130,883; Mar. 9; Gaz. vol. 212; p. 397.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,131,670; Mar. 16; Gaz. vol. 212; p. 703.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,132,300; Mar. 16; Gaz. vol. 212; p. 933.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,132,908; Mar. 23; Gaz. vol. 212; p. 1202.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,134,101; Apr. 6; Gaz. vol. 213; p. 7.
- Briggs, Arthur J., Syracuse, assignor, by mesne assignments, to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,138,931; May 11; Gaz. vol. 214; p. 463.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,147,299; July 20; Gaz. vol. 216; p. 852.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,147,300; July 20; Gaz. vol. 216; p. 852.
- Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,160,134; Nov. 16; Gaz. vol. 220; p. 692.
- Briggs, Arthur J., Syracuse, assignor to The Vannette Bobbinless Sewing Machine Company, Amsterdam, N. Y. Sewing-machine. No. 1,147,138; July 20; Gaz. vol. 216; p. 796.
- Briggs, Arthur J., Syracuse, assignor to The Vannette Bobbinless Sewing Machine Company, Amsterdam, N. Y. Sewing-machine. No. 1,147,139; July 20; Gaz. vol. 216; p. 797.
- Briggs, Arthur J., Syracuse, assignor to The Vannette Bobbinless Sewing Machine Company, Amsterdam, N. Y. Sewing-machine. No. 1,147,140; July 20; Gaz. vol. 216; p. 797.
- Briggs, Arthur J., Syracuse, assignor to The Vannette Bobbinless Sewing Machine Company, Amsterdam, N. Y. Sewing-machine. No. 1,147,141; July 20; Gaz. vol. 216; p. 797.
- Briggs, Darlus B., Dayton, Ohio. Baker's device. No. 1,125,804; Jan. 19; Gaz. vol. 210; p. 999.
- Briggs, Delamar C., assignor to Detroit Steel Products Company, Detroit, Mich. Automatic lock for metallic windows. No. 1,125,951; Jan. 26; Gaz. vol. 210; p. 1082.
- Briggs, Delamar C., assignor to Detroit Steel Products Company, Detroit, Mich. Adjustable hinge for metallic-window ventilators. No. 1,134,180; Apr. 6; Gaz. vol. 213; p. 35.
- Briggs, Delamar C., assignor to Detroit Steel Products Company, Detroit, Mich. Clip for metallic window-sashes. No. 1,164,331; Dec. 14; Gaz. vol. 221; p. 604.
- Briggs, Delamar C., and C. W. Davock, assignors to Detroit Steel Products Company, Detroit, Mich. Window-stay. No. 1,142,140; June 8; Gaz. vol. 215; p. 407.
- Briggs, Earl S., Binghamton, N. Y. Rail-joint. No. 1,125,453; Jan. 19; Gaz. vol. 210; p. 874.
- Briggs, Edward A., assignor of one-half to F. Pettit, Hopewell, N. J. Dual ignition system for internal-combustion motors. No. 1,165,492; Dec. 28; Gaz. vol. 221; p. 1088.
- Briggs, George W. (See Fisher, Thaddeus C., Sr., assignor.)
- Briggs, Jay, Los Angeles, Cal. Assignor of one-half to W. T. Gunn, San Diego, Cal. Automatic electric crossing-gate. No. 1,134,584; Apr. 6; Gaz. vol. 213; p. 183.
- Briggs, John E. (See Bowman and Briggs.)
- Briggs, John R. (See Llewellyn and Briggs.)
- Briggs, Joseph. (See Whitaker, Bradshaw, and Briggs.)
- Briggs, Joseph. (See Whitaker, Briggs, and Bradshaw.)
- Briggs, Leslie F., Brooklyn, N. Y. Window-cleaner. No. 1,130,566; Mar. 2; Gaz. vol. 212; p. 254.
- Briggs, Magdalena M., executrix. (See Briggs, William.)
- Briggs, Thomas, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,136,095; Apr. 20; Gaz. vol. 213; p. 794.
- Briggs, Wells U., and H. M. Michael, Alamosa, Colo. Lawn-sprinkler. No. 1,135,495; Apr. 13; Gaz. vol. 213; p. 543.
- Briggs, William, deceased, Brooklyn, N. Y.; M. M. Briggs, executrix. Flush-tank. No. 1,149,494; Aug. 10; Gaz. vol. 217; p. 460.
- Briggs, William C., Lynchburg, Va., assignor to Carolina Banding Machine Company, Winston-Salem, N. C. Machine for applying bands to cigars. No. 1,138,275; May 4; Gaz. vol. 214; p. 193.
- Brigham-Hopkins Company. (See Robson, William H., assignor.)
- Brigham, Nathan, Whitewood, S. D. Conveyer. No. 1,126,696; Feb. 2; Gaz. vol. 211; p. 10.
- Bright, Albert E., Idagrove, Iowa. Nut-lock. No. 1,129,787; Feb. 23; Gaz. vol. 211; p. 1214.
- Bright, Albert W., Washington, D. C., assignor to The Columbus Glass Company, Lancaster, Ohio. Device for capping glass cylinders. No. 1,130,373; Mar. 2; Gaz. vol. 212; p. 185.
- Bright Envelope Company. (See Van Riper, Lewis C., assignor.)
- Bright, George M., Roanoke, Va. Condiment-holder. No. 1,139,841; May 18; Gaz. vol. 214; p. 819.
- Bright, Jesse L., Chicago, Ill. Combined gas and coal range. No. 1,142,928; June 15; Gaz. vol. 215; p. 722.
- Brightman, Latham H., Columbus, Ohio. Bolt-head and making same. No. 1,139,479; May 18; Gaz. vol. 214; p. 692.
- Brila, Léon A., and W. Andrews, London, England. Embossing apparatus. No. 1,133,922; Mar. 30; Gaz. vol. 212; p. 1600.
- Briles, Larkin, Lake City, Cal. Automatic cleaner for fish-screens. No. 1,143,496; June 15; Gaz. vol. 215; p. 920.
- Briles, Nathan, Custer, Okla. Automatic temperature-controlled receptacle. No. 1,142,075; June 8; Gaz. vol. 215; p. 384.
- Brill, Emil G. F. (See Keener, Francis M., assignor.)
- Brill, Joseph W., Los Angeles, Cal. Bath-cock nipple. No. 1,165,838; Dec. 28; Gaz. vol. 221; p. 1208.
- Brimhall, Lee H., Spanish Forks, Utah. Work-bench attachment. No. 1,140,243; May 18; Gaz. vol. 214; p. 960.
- Brimley, Harry S. B., London, England. Percussive tool for scaling tubes. No. 1,158,115; Oct. 26; Gaz. vol. 219; p. 1094.
- Briney, Carl A. (See Chase and Briney.)
- Briney, George B., Greenfield, Ind. Rotary valve for gas-engines. No. 1,154,479; Sept. 21; Gaz. vol. 218; p. 814.
- Bring, Einar J., Franklin, Pa. Dumping-vehicle. No. 1,153,369; Sept. 14; Gaz. vol. 218; p. 394.
- Brink, Charles L., Lansing, Mich. Stop mechanism. No. 1,131,671; Mar. 16; Gaz. vol. 212; p. 703.
- Brink, Norbert F., Boston, Mass. Projecting apparatus. No. 1,127,725; Feb. 9; Gaz. vol. 211; p. 411.
- Brinker, Frederic A., assignor of one-half to R. G. Walton, Missouri Valley, Iowa. Pipe-joint. No. 1,149,715; Aug. 10; Gaz. vol. 217; p. 542.

Alphabetical list of patentees—Continued.

- Brinkerhoff, William C., Chicago, Ill. Lock for door-bolts. No. 1,126,375; Jan. 26; Gaz. vol. 210; p. 1236.
- Brinkley, Robert L., Winston-Salem, N. C. Fire-alarm. No. 1,154,480; Sept. 21; Gaz. vol. 218; p. 815.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Baltimore Tube Company, Baltimore, Md. Tube-bending machine. No. 1,135,875; Apr. 13; Gaz. vol. 213; p. 677.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Baltimore Tube Company, Baltimore, Md. Metal-drawing machine. No. 1,143,101; June 15; Gaz. vol. 215; p. 783.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to General Industries Company. Power-transmitter. No. 1,152,001; Aug. 31; Gaz. vol. 217; p. 1501.
- Brinkman, William, *et al.* (See Hammond, John W. and P. M., assignors.)
- Brimley, Charles A. and C. E., assignors to The American Pulley Company, Philadelphia, Pa. Pulley. No. 1,152,282; Aug. 31; Gaz. vol. 217; p. 1598.
- Brimley, Charles E. (See Brimley, Charles A. and C. E.)
- Brimming, Thomas. (See Spillane and Brimming.)
- Brisson, Joseph G., assignor of one-half to A. V. Scott, Idaho Falls, Idaho. Train-stop. No. 1,152,283; Aug. 31; Gaz. vol. 217; p. 1598.
- Brinton, Walter, Wilmington, Del., assignor to Edgar Allen American Manganese Steel Company, Augusta, Me., and Chicago, Ill. Lining-plate for ball-mills. No. 1,132,909; Mar. 23; Gaz. vol. 212; p. 1203.
- Brinton, William C., Jr., Manoa, assignor to himself, and E. S. Phillips, Kennett Square, Pa. Contact maker and interrupter for ignition systems. No. 1,129,445; Feb. 23; Gaz. vol. 211; p. 1098.
- Brinton, William C., Jr., Manoa, assignor to himself, and E. S. Phillips, Kennett Square, Pa. Contact maker and interrupter. No. 1,129,446; Feb. 23; Gaz. vol. 211; p. 1098.
- Brisbois, Odilon, assignor of one-half to W. Lorimer, Jr., Chicago, Ill. Telephone system. No. 1,123,476; Jan. 5; Gaz. vol. 210; p. 95.
- Brisbois, Odilon, assignor of fifty-one one-hundredths to J. H. Ware, Chicago, Ill. Device for starting internal-combustion engines. No. 1,140,331; May 18; Gaz. vol. 214; p. 991.
- Brisbois, Odilon, assignor of fifty-one one-hundredths to J. H. Ware, Chicago, Ill. Valve. No. 1,140,332; May 18; Gaz. vol. 214; p. 991.
- Brisbois, Odilon, assignor of fifty-one one-hundredths to J. H. Ware, Chicago, Ill. Type-writer carriage-return device. No. 1,140,333; May 18; Gaz. vol. 214; p. 991.
- Brisbois, Odilon, assignor to J. H. Ware, Chicago, Ill. Prepay-box for use in telephone systems. No. 1,160,570; Nov. 16; Gaz. vol. 220; p. 845.
- Briscoe, Cole. (See Briscoe, Ina M. and C.)
- Briscoe, Ina M. and C., Castle Rock, Colo. Adjustable crutch. No. 1,156,747; Oct. 12; Gaz. vol. 219; p. 521.
- Briscoe Manufacturing Company. (See Farlinger, George E., assignor.)
- Briscoe Manufacturing Company. (See Groehn, Otto J., assignor.)
- Briscoe Manufacturing Company. (See Puddefoot, Alfred A., assignor.)
- Briscoe, William J., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,131,672; Mar. 16; Gaz. vol. 212; p. 704.
- Brisson, Joseph T., assignor of one-half to M. F. Kelly, Detroit, Mich. Driving mechanism. No. 1,139,634; May 18; Gaz. vol. 214; p. 746.
- Brister, John L., Norfolk, Va. Playing-cards. No. 1,138,534; May 4; Gaz. vol. 214; p. 284.
- Bristol, Bennet B., Naugatuck, Conn., assignor, by mesne assignments, to The Foxboro Company, Foxboro, Mass. Recording pressure-gage. No. 1,161,376; Nov. 23; Gaz. vol. 220; p. 1179.
- Bristol Company, The. (See Bristol, William H., assignor.)
- Bristol, Edgar H., Foxboro, Mass., assignor to The Industrial Instrument Company, Waterbury, Conn. Belt-fastener. No. 1,146,398; July 13; Gaz. vol. 216; p. 518.
- Bristol, Edgar H., Naugatuck, Conn., assignor, by mesne assignments, to The Foxboro Company, Foxboro, Mass. Belt-fastener. No. 1,146,472; July 13; Gaz. vol. 216; p. 547.
- Bristol, Edgar H. and W. E. Goodyear, Naugatuck, Conn., assignors, by mesne assignments, to The Foxboro Company, Foxboro, Mass. Measuring or controlling instrument. No. 1,164,573; Dec. 14; Gaz. vol. 221; p. 687.
- Bristol, Orin L. and A. F. Vorce, said Bristol assignor, by mesne assignments, to Sparta Mfg. Co., Grand Rapids, Mich. Coin-controlled mechanism for vending apparatus. No. 1,135,934; Apr. 13; Gaz. vol. 213; p. 696.
- Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Measuring instrument. No. 1,136,648; Apr. 20; Gaz. vol. 213; p. 991.
- Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Hygrometer. No. 1,162,446; Nov. 30; Gaz. vol. 220; p. 1596.
- Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Electric-motor device. No. 1,162,447; Nov. 30; Gaz. vol. 220; p. 1596.
- Bristow, Willard L., De Kalb, Ill. Fishing-rod. No. 1,159,466; Nov. 9; Gaz. vol. 220; p. 401.
- British Marine Motor & Launch Company, The. (See Munn and MacLaren, assignors.)
- British Railway and Tramway Interchangeable Railway Company, The. (See Wakelam, Henry T., assignor.)
- Britsch, Jacob. (See Akers and Britsch.)
- Britt, Alfred A., Detroit, Mich. Valve. No. 1,154,577; Sept. 21; Gaz. vol. 218; p. 849.
- Britt, Edmund C., Tacoma, Wash. Current-motor. No. 1,148,074; July 27; Gaz. vol. 216; p. 1153.
- Britt, William J., Jr., assignor to Killark Electric Manufacturing Company, St. Louis, Mo. Inclosed fuse. No. 1,129,447; Feb. 23; Gaz. vol. 211; p. 1099.
- Brittain, George C., Oxford, Kans. Mechanism for moving engines off a dead-center. No. 1,140,353; May 25; Gaz. vol. 214; p. 1033.
- Brittain, Robert O., Boston, Mass. Illuminated sign. No. 1,157,672; Oct. 26; Gaz. vol. 219; p. 938.
- Britten, Edwin F., Jr., Jersey City, N. J., assignor to L. E. Waterman Company, New York, N. Y. Spring and presser-bar for fountain-pens. No. 1,156,748; Oct. 12; Gaz. vol. 219; p. 521.
- Britting, William J., Washington, D. C. Vertically-adjustable shade-hanger. No. 1,129,162; Feb. 23; Gaz. vol. 211; p. 998.
- Britton, Arthur T. (See Wickland and Britton.)
- Britton, Charles S., Cleveland, Ohio. Golf-practising device. No. 1,164,985; Dec. 21; Gaz. vol. 221; p. 873.
- Britton, Daniel H. and D. H., Jr., Natchez, Miss. Apparatus for destroying boll-weevil. No. 1,146,687; July 13; Gaz. vol. 216; p. 620.
- Britton, Daniel H., Jr. (See Britton, Daniel H. and D. H., Jr.)
- Britton, James A., Chicago, Ill., assignor to International Harvester Company of New Jersey. Respirator. No. 1,150,991; Aug. 24; Gaz. vol. 217; p. 1109.
- Britton, John W., assignor to The Gas Meter Company Limited, London, England. Gas-meter. No. 1,149,716; Aug. 10; Gaz. vol. 217; p. 543.
- Britton, William E., Muskegon, Mich. Protective apparatus for electric circuits. No. 1,150,926; Aug. 24; Gaz. vol. 217; p. 1088.
- Britton, Willis N., Rochester, N. Y. Mold. No. 1,133,359; Mar. 30; Gaz. vol. 212; p. 1400.
- Britton, Willis N., Rochester, N. Y. Separator. No. 1,151,243; Aug. 24; Gaz. vol. 217; p. 1197.
- Brizius, William J., Los Angeles, Cal. Wax-extractor. No. 1,140,660; May 25; Gaz. vol. 214; p. 1142.
- Broadbent, Charles F., Baltimore, Md. Sign. No. 1,143,168; June 15; Gaz. vol. 215; p. 806.
- Broadbooks, Peter, Batavia, N. Y. Vehicle bow support and fastener. No. 1,126,948; Feb. 2; Gaz. vol. 211; p. 99.
- Broadbooks, Peter, and L. E. Smith, Batavia, N. Y. Arch-support for shoes. No. 1,152,284; Aug. 31; Gaz. vol. 217; p. 1599.
- Broadwell, Stuart, and C. Hollaway, Springfield, Ill. Capsule-filler. No. 1,144,634; June 29; Gaz. vol. 215; p. 1366.
- Broady, Harry W., Bayside, N. Y., assignor to Welln Marine Equipment Company. Apparatus for handling life-boats. No. 1,128,656; Feb. 16; Gaz. vol. 211; p. 786.
- Broady, Harry W., Bayside, N. Y., assignor to Welln Marine Equipment Company. Life-line projectile. No. 1,142,396; June 8; Gaz. vol. 215; p. 498.
- Broady, Harry W., assignor to A. P. Lundin, Bayside, N. Y. Davit for raising and lowering ships' boats. No. 1,128,845; Feb. 16; Gaz. vol. 211; p. 851.
- Broaker, Frank, *et al.* (See Bodensiek, Jennie M., assignor.)
- Broberg, Henry, Warmsprings, Mont. Clamp for cue-tips. No. 1,131,111; Mar. 9; Gaz. vol. 212; p. 475.
- Broberg, Henry, Warmsprings, Mont. Fish-stop. No. 1,147,301; July 20; Gaz. vol. 216; p. 852.
- Broberg, John A., Lincoln, Kans. Combination hames and collar. No. 1,128,404; Feb. 16; Gaz. vol. 211; p. 698.
- Brobst, Charles, Pasco, Wash. Grease-cup. No. 1,155,879; Oct. 5; Gaz. vol. 219; p. 193.
- Brock, Alfred O., Santa Margarita, Cal. Shock-absorber. No. 1,151,858; Aug. 31; Gaz. vol. 217; p. 1454.
- Brock, Edward R., *et al.* (See Kellenberger, John, assignor.)
- Brock, Ellis R. (See Day, Medicus F., assignor.)
- Brock, Harry M., North Yakima, Wash. Dental instrument. No. 1,136,649; Apr. 20; Gaz. vol. 213; p. 991.
- Brock, Henry E., and E. Z. Myre, Hancock, Mich. Box. No. 1,155,206; Sept. 28; Gaz. vol. 218; p. 1093.
- Brock, Matthias, Roxbury, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Molding-machine. No. 1,130,138; Mar. 2; Gaz. vol. 212; p. 103.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Holddown for lasting-machines. No. 1,134,253; Apr. 6; Gaz. vol. 213; p. 63.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-stiffener. No. 1,141,913; June 1; Gaz. vol. 215; p. 291.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 1,141,914; June 1; Gaz. vol. 215; p. 291.

Alphabetical list of patentees—Continued.

- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting shoes. No. 1,142,549; June 8; Gaz. vol. 215; p. 551.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,142,550; June 8; Gaz. vol. 215; p. 552.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Toe-clamp for lasting-machines. No. 1,143,939; June 22; Gaz. vol. 215; p. 1097.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Upper-forming machine. No. 1,160,135; Nov. 16; Gaz. vol. 220; p. 692.
- Brock, Samuel T., Mount Vernon, Ohio. Storm and insect shield for windows. No. 1,125,805; Jan. 19; Gaz. vol. 210; p. 1000.
- Brockbank, Clarence J., Niagara Falls, Ontario, Canada, assignor to The Carborundum Company, Niagara Falls, N. Y. Filtering apparatus. No. 1,152,875; Sept. 7; Gaz. vol. 218; p. 182.
- Brockbank, Clarence J., Niagara Falls, Ontario, Canada, assignor to The Carborundum Company, Niagara Falls, N. Y. Apparatus for the manufacture of chemical compounds. No. 1,157,293; Oct. 19; Gaz. vol. 219; p. 744.
- Brocken, Joseph A., Hoboken, N. J. Kettle attachment. No. 1,151,158; Aug. 24; Gaz. vol. 217; p. 1167.
- Brocker, Charles F. (See Moscherrosch and Brocker.)
- Brockett, Bluford W. (See Lord and Brockett.)
- Brockman, Charles A., and T. D. Conroy, Jolley, Iowa; said Conroy assignor to A. H. Zastrow, Chisholm, Minn. Wrench. No. 1,143,746; June 22; Gaz. vol. 215; p. 1030.
- Brockman, Edward, Aurora, Ill. Fly-swatter. No. 1,138,448; May 4; Gaz. vol. 214; p. 256.
- Brockman, Oscar, Louisville, Ky. Bridle-blind. No. 1,134,816; Apr. 6; Gaz. vol. 213; p. 266.
- Brockman, Oscar, Louisville, Ky. Snap-hook. No. 1,153,022; Sept. 7; Gaz. vol. 218; p. 235.
- Brockman, Oscar, Louisville, Ky. Bridle. No. 1,153,023; Sept. 7; Gaz. vol. 218; p. 235.
- Brockschmidt, William P. (See Hendricks and Brockschmidt.)
- Brocksmith, Adolph R., St. Louis, Mo. Rear-axle truss. No. 1,153,996; Sept. 21; Gaz. vol. 218; p. 648.
- Brockway, Byron B. (See Anderson and Brockway.)
- Brockway, Don M. (See Richards, Frank J., assignor.)
- Brockway, Edwin L., Glenside, Pa. Coupling for conduits. No. 1,165,747; Dec. 28; Gaz. vol. 221; p. 1179.
- Brockway, George F., Eden township, Fayette county, Iowa. Metallic tie. No. 1,136,771; Apr. 20; Gaz. vol. 213; p. 1035.
- Brockway Machine Bottle Company. (See Harding, John W., assignor.)
- Brockwell, Howard G., and L. W. Henderson, Richmond, Va., assignors to The Kentucky Tobacco Product Company. Method and means for removing foreign material from tobacco-scrap. No. 1,164,986; Dec. 21; Gaz. vol. 221; p. 873.
- Brodbeck, Adolf, Salt Lake City, Utah. Oil vaporizer and mixer. No. 1,148,440; July 27; Gaz. vol. 216; p. 1281.
- Broderick, Fred. (See Christopher, William E., assignor.)
- Broderick, John W., Newark, N. J. Airship. No. 1,146,842; July 20; Gaz. vol. 216; p. 693.
- Broderick, Robert H., assignor of one-half to A. Canning, Jr., Bethlehem, Pa. Camera. No. 1,129,448; Feb. 23; Gaz. vol. 211; p. 1100.
- Brodeur, François X., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Clicking-machine. No. 1,161,023; Nov. 23; Gaz. vol. 220; p. 1051.
- Brodie, Charles G., Fernhill, Wootton Bridge, Isle of Wight, England. Water-meter. No. 1,140,661; May 25; Gaz. vol. 214; p. 1142.
- Brodie, Hugo D., Biggar, Scotland. Valve for internal-combustion engines. No. 1,145,398; July 6; Gaz. vol. 216; p. 147.
- Brodrick, James A., Marshalltown, Iowa. Concrete silo. No. 1,130,958; Mar. 9; Gaz. vol. 212; p. 422.
- Brodton, Edward R., assignor to Automatic Chemical Fire Extinguisher and Alarm Company, Washington, D. C. Fire-extinguishing apparatus. No. 1,143,169; June 15; Gaz. vol. 215; p. 806.
- Brody, Alexander, New York, N. Y. Push and pinch contact-plug for flash-lights. No. 1,153,420; Sept. 14; Gaz. vol. 218; p. 413.
- Broe, Andrew G. (See Taylor and Broe.)
- Brogan, James A., Lawrence, assignor to M. Bruner, Newton, Mass. Puzzle. No. 1,132,430; Mar. 16; Gaz. vol. 212; p. 979.
- Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for laying soles. No. 1,146,303; July 13; Gaz. vol. 216; p. 484.
- Brogan, Michael F., Lawrence, Mass. Safety-razor. No. 1,145,466; July 6; Gaz. vol. 216; p. 173.
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,141,311; June 1; Gaz. vol. 215; p. 80.
- Brogen, Fay A., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Pull pendant switch. No. 1,156,344; Oct. 12; Gaz. vol. 219; p. 377.
- Brogden, Joab, and J. W. Watkins, assignors to David Lupton's Sons Company, Philadelphia, Pa. Sheet-metal fire-resisting closure. No. 1,139,842; May 18; Gaz. vol. 214; p. 819.
- Brogden, John, *et al.* (See Eckenwiler, George M., assignor.)
- Brogdon, Joel E., assignor of one-fourth to A. H. Arrington, Montgomery, Ala. Center-pin. No. 1,152,285; Aug. 31; Gaz. vol. 217; p. 1599.
- Brögger, Ivar W., Newark, N. J. Electrical measuring instrument. No. 1,141,523; June 1; Gaz. vol. 215; p. 156.
- Brokaw, William G., Trinity, N. C. Life-preserver. No. 1,150,335; Aug. 17; Gaz. vol. 217; p. 826.
- Brokaw, William G., High Point, N. C. Life-preserver. No. 1,155,207; Sept. 28; Gaz. vol. 218; p. 1093.
- Brokaw, William G., High Point, N. C. Life-preserver. No. 1,160,252; Nov. 16; Gaz. vol. 220; p. 733.
- Brokaw, William G., High Point, N. C. Life-preserver. No. 1,160,253; Nov. 16; Gaz. vol. 220; p. 734.
- Brokenicky, Charles V. (See Kennedy and Brokenicky.)
- Brokoff, Emil R., *et al.* (See Sinclair, George, assignor.)
- Broling, Andrew J., Chicago, Ill. Crank-handle. No. 1,150,659; Aug. 17; Gaz. vol. 217; p. 938.
- Broman, Charles E., Grand Rapids, Mich. Rotary internal-combustion engine. No. 1,140,870; May 25; Gaz. vol. 214; p. 1214.
- Broman, John G., Chicago, Ill. Steam-boiler. No. 1,165,064; Dec. 21; Gaz. vol. 221; p. 899.
- Brombacher, Julius, Los Angeles, Cal. Heater. No. 1,146,919; July 20; Gaz. vol. 216; p. 720.
- Bromberg, Oscar F. R., San Diego, Cal. Combined tire-valve and pressure-gage. No. 1,156,268; Oct. 12; Gaz. vol. 219; p. 351.
- Bromet, John, F. Thorman, and H. C. Wood, Tadcaster, England. Apparatus for drying sewage-sludge and the like. No. 1,153,192; Sept. 14; Gaz. vol. 218; p. 330.
- Bromley, Harry, New York, N. Y. Foot-ball. No. 1,128,099; Feb. 9; Gaz. vol. 211; p. 544.
- Bromley & Sons, John. (See Peters, Howard L., assignor.)
- Bronander, Bertil W., New York, N. Y. Variable-speed driving-gear. No. 1,135,990; Apr. 20; Gaz. vol. 213; p. 759.
- Bronder, Gaston A., Brooklyn, N. Y. Gas-heater. No. 1,149,334; Aug. 10; Gaz. vol. 217; p. 406.
- Brong, Walle J. (See Wright, Frederick A., assignor.)
- Bronn, Jeger L., assignor of one-half to Rombacher Hüttenwerke, Rombach, Germany. Manufacture of steel. No. 1,156,051; Oct. 12; Gaz. vol. 219; p. 279.
- Bronn, Jeger L., and W. Schemmann, assignors to Rombacher Hüttenwerke, Rombach, Germany. Method and apparatus for protecting the electrodes in arc-furnaces. No. 1,129,377; Feb. 23; Gaz. vol. 211; p. 1074.
- Bronner, Alfred F., Melbourne, and A. A. Quick, Northcote, Victoria, Australia. Gearing. No. 1,144,807; June 29; Gaz. vol. 215; p. 1428.
- Bronner, Alfred F., Melbourne, and A. A. Quick, Northcote, Victoria, Australia. Variable-speed gearing. No. 1,144,808; June 29; Gaz. vol. 215; p. 1429.
- Bronnert, Emile, Niedermorschweiler, Germany. Non-inflammable celluloid-like mass and production thereof. No. 1,153,596; Sept. 14; Gaz. vol. 218; p. 476.
- Bronosky, Josef F., Minden, W. Va. Wrench. No. 1,142,929; June 15; Gaz. vol. 215; p. 722.
- Bronson, Adelbert E., Jr., Cleveland, Ohio. Sad-iron. No. 1,123,840; Jan. 5; Gaz. vol. 210; p. 218.
- Brook, Oscar, *et al.* (See Maynard, Joseph A., assignor.)
- Brooke, Alec, Glasgow, Scotland. Mechanism for laying metallic leaf. No. 1,162,448; Nov. 30; Gaz. vol. 220; p. 1597.
- Brooke, Arthur O., Kansas City, Mo. Internal-combustion engine. No. 1,134,667; Apr. 6; Gaz. vol. 213; p. 214.
- Brooke, Banner M., Columbus, Ohio. Weighing-scale. No. 1,144,687; June 29; Gaz. vol. 215; p. 1385.
- Brooke, Thomas P., assignor to L. C. Kuhnert, Jr., Chicago, Ill. Internal-combustion engine. No. 1,139,336; May 11; Gaz. vol. 214; p. 604.
- Brooke, Thomas P., assignor, by mesne assignments, to F. A. Umsted, Chicago, Ill. Motor. No. 1,145,969; July 13; Gaz. vol. 216; p. 367.
- Brooke, Thomas P., assignor, by mesne assignments, to F. A. Umsted, Chicago, Ill. Gas-engine. No. 1,158,625; Nov. 2; Gaz. vol. 220; p. 76.
- Brookfield Glass Company, The. (See Brookfield and Olsen, assignors.)
- Brookfield Glass Company, The. (See Roehrich, Frank N., assignor.)
- Brookfield, Henry M., New York, N. Y. Glass and making same. No. 1,136,504; Apr. 20; Gaz. vol. 213; p. 941.
- Brookfield, Henry M., New York, N. Y. Making a compound of glass. No. 1,143,885; June 22; Gaz. vol. 215; p. 1078.
- Brookfield, Henry M., New York, and S. Olsen, Brooklyn, assignors to The Brookfield Glass Company, New York, N. Y. Fluid-molding press. No. 1,137,000; Apr. 27; Gaz. vol. 213; p. 1153.
- Brookfield, Henry M., and S. Olsen, assignors to The Brookfield Glass Company, New York, N. Y. Mold. No. 1,144,527; June 29; Gaz. vol. 215; p. 1330.

Alphabetical list of patentees—Continued.

- Brooklyn Cooperage Co. (See Lobley, Max E., assignor.)
 Brooks, Asa P., assignor to I. V. Glass, Minneapolis, Minn. Bronzing attachment for printing-presses. No. 1,133,258; Mar. 30; Gaz. vol. 212; p. 1365.
 Brooks Bank Note Company. (See Clarke, George T. F., assignor.)
 Brooks, Benjamin T. (See Bacon, Brooks, and Clark.)
 Brooks, Benjamin T., assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of aluminum chlorid. No. 1,165,065; Dec. 21; Gaz. vol. 221; p. 900.
 Brooks, Boulbee, Birmingham, England. Cycle, motor-cycle, and analogous saddle and seat. No. 1,128,940; Feb. 16; Gaz. vol. 211; p. 886.
 Brooks, Boulbee, and W. Holt, Birmingham, England. Electric starter for internal-combustion engines. No. 1,151,439; Aug. 24; Gaz. vol. 217; p. 1259.
 Brooks, Charles T. (See Sargent and Brooks.)
 Brooks, Chester K., Cleveland, Ohio, assignor to The National Malleable Castings Company. Car-door fastener. No. 1,148,143; July 27; Gaz. vol. 216; p. 1179.
 Brooks, Chester K., Cleveland, Ohio, assignor to The National Malleable Castings Company. Friction draft-rigging. No. 1,163,735; Dec. 14; Gaz. vol. 221; p. 395.
 Brooks, Claude C., Kansas City, Mo. Mold for securing screen-wire. No. 1,135,760; Apr. 13; Gaz. vol. 213; p. 637.
 Brooks, David W., Royston, Ga. Sterilizer. No. 1,133,088; Mar. 23; Gaz. vol. 212; p. 1268.
 Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,138,350; May 4; Gaz. vol. 214; p. 222.
 Brooks, Frank M., New York, N. Y. Gas-cock. No. 1,125,645; Jan. 19; Gaz. vol. 210; p. 940.
 Brooks, Frank M., New York, N. Y. Lighting-fixture. No. 1,155,789; Oct. 5; Gaz. vol. 219; p. 162.
 Brooks, George, E. I. Dodds, Pittsburgh, and A. Kitzinger, Hays, assignors to Flannery Bolt Company, Pittsburgh, Pa. Apparatus for making bars. No. 1,162,023; Nov. 30; Gaz. vol. 220; p. 1449.
 Brooks, George S., Depue, Ill., assignor to The New Jersey Zinc Company, New York, N. Y. Briquet for use in zinc-furnaces. No. 1,137,835; May 4; Gaz. vol. 214; p. 40.
 Brooks, George W., Missoula, Mont. Internal-combustion engine. No. 1,130,060; Mar. 2; Gaz. vol. 212; p. 76.
 Brooks, George W., Topeka, Kans. Metal stair. No. 1,134,992; Apr. 13; Gaz. vol. 213; p. 369.
 Brooks, Harry A., Glendale, assignor to C. A. Deal, Los Angeles, and M. E. Cox, San Diego, Cal. Pneumatic motor-starting apparatus. No. 1,148,888; Aug. 3; Gaz. vol. 217; p. 143.
 Brooks, James A., assignor to The J. G. Brill Co., Philadelphia, Pa. Brake mechanism for maximum-traction trucks. No. 1,138,842; May 11; Gaz. vol. 214; p. 433.
 Brooks, James A., assignor to The J. G. Brill Co., Philadelphia, Pa. Car-brake. No. 1,162,219; Nov. 30; Gaz. vol. 220; p. 1518.
 Brooks, John F., Vicksburg, assignor to H. M. Jordan, Kalamazoo, and A. A. Morse, Lansing, Mich. Box. No. 1,133,791; Mar. 30; Gaz. vol. 212; p. 1556.
 Brooks, John W. (See Sedlmayer and Brooks.)
 Brooks, John W., Stamford, Conn. Valve-seat-refacing tool. No. 1,127,175; Feb. 2; Gaz. vol. 211; p. 180.
 Brooks, Lawrence R., assignor of one-half to C. W. Ward, Pittsburgh, Pa. Testing apparatus for meters. No. 1,128,405; Feb. 16; Gaz. vol. 211; p. 698.
 Brooks Manufacturing Co. (See Brooks, Robert A., assignor.)
 Brooks, Morris, and H. B. Freeman, New York, N. Y. Hand-bag lock. No. 1,155,860; Oct. 5; Gaz. vol. 219; p. 194.
 Brooks, Robert A., assignor to Brooks Manufacturing Co., Chicago, Ill. Flushing-valve. No. 1,123,477; Jan. 5; Gaz. vol. 210; p. 96.
 Brooks, Robert S., Mount Sterling, Ill. Drinking-fountain. No. 1,125,806; Jan. 19; Gaz. vol. 210; p. 1000.
 Brooks, Sanlbury, Jr., and C. R. Anderson, Los Angeles, Cal. Electrotherapeutic apparatus. No. 1,155,036; Sept. 28; Gaz. vol. 218; p. 1032.
 Brooks, Stephen H. (See Theis, Leroy W., assignor.)
 Brooks, Stephen H., Cleveland, Ohio. Gas-shut-off valve. No. 1,164,461; Dec. 14; Gaz. vol. 221; p. 650.
 Brooks, William H., Toronto, Ontario, Canada. Skylight. No. 1,158,626; Nov. 2; Gaz. vol. 220; p. 77.
 Brooks, Winfred M., East Orange, N. J. Bag-seal. No. 1,126,376; Jan. 26; Gaz. vol. 210; p. 1237.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Self-locking seal. No. 1,137,183; Apr. 27; Gaz. vol. 213; p. 1219.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Box fastener and seal. No. 1,147,142; July 20; Gaz. vol. 216; p. 798.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Seal-press and cord-tightener. No. 1,147,845; July 27; Gaz. vol. 216; p. 1071.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Bag-seal. No. 1,150,336; Aug. 17; Gaz. vol. 217; p. 826.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Bag-seal. No. 1,151,509; Aug. 24; Gaz. vol. 217; p. 1285.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Garment-tag seal. No. 1,152,142; Aug. 31; Gaz. vol. 217; p. 1550.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Shackle-seal. No. 1,152,143; Aug. 31; Gaz. vol. 217; p. 1551.
 Brooks, Winfred M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Self-locking car-seal. No. 1,163,614; Dec. 7; Gaz. vol. 221; p. 308.
 Broome, Christopher C., Macon, Ga. Separator for cotton-ginning mechanism. No. 1,159,168; Nov. 2; Gaz. vol. 220; p. 262.
 Broomell, Albert P., York, Pa. Thermostatic means for operating hot-air registers. No. 1,133,089; Mar. 23; Gaz. vol. 212; p. 1269.
 Broomell, Albert P., York, Pa. Automatic heat-controlling device. No. 1,133,090; Mar. 23; Gaz. vol. 212; p. 1270.
 Brophy, Edward J., Brooklyn, N. Y. Paper-hanger's brush. No. 1,124,283; Jan. 12; Gaz. vol. 210; p. 421.
 Brophy, James H. (See Kammers and Brophy.)
 Brophy, James P., Birmingham, Ala. Sectional air-bag. No. 1,151,859; Aug. 31; Gaz. vol. 217; p. 1454.
 Brophy, John J., Salem, and W. C. Roche, Beverly, assignors to The Turner Tanning Machinery Company, Peabody, Mass. Guard for presses. No. 1,145,346; July 6; Gaz. vol. 216; p. 128.
 Brophy, Luke V., Fort Wayne, Ind. Grading-machine. No. 1,147,302; July 20; Gaz. vol. 216; p. 853.
 Brophy, Owen O., Philadelphia, Pa. Record-tablet for talking-machines. No. 1,126,377; Jan. 26; Gaz. vol. 210; p. 1237.
 Broschart, Jacob L., Trenton, Mo., and E. F. Bernecking, Atchison, Kans. Combined threader, reamer, and wrench. No. 1,161,377; Nov. 23; Gaz. vol. 220; p. 1180.
 Brosius, Clarence C. (See Harbaugh and Brosius.)
 Bross, William R., Babylon, N. Y. Heating system for automobiles. No. 1,126,378; Jan. 26; Gaz. vol. 210; p. 1237.
 Bross, William R., Babylon, N. Y. Jack for automobiles. No. 1,130,472; Mar. 2; Gaz. vol. 212; p. 222.
 Brossman, Walter D., Berthoud, Colo. Swimming-machine. No. 1,135,350; Apr. 13; Gaz. vol. 213; p. 492.
 Brostrom, Carl A., Moline, Ill. Gang-plow. No. 1,139,751; May 18; Gaz. vol. 214; p. 787.
 Brostrom, Ernest O. (See Stone and Brostrom.)
 Broszmer, Frances L. (See Falconer, Albert S., assignor.)
 Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,135,945; Apr. 13; Gaz. vol. 213; p. 700.
 Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,135,946; Apr. 13; Gaz. vol. 213; p. 701.
 Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over and lasting machine. No. 1,135,947; Apr. 13; Gaz. vol. 213; p. 701.
 Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,135,948; Apr. 13; Gaz. vol. 213; p. 702.
 Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on shoes. No. 1,146,304; July 13; Gaz. vol. 216; p. 484.
 Brothers, John, Grandview, Manitoba, Canada. Wheel. No. 1,135,432; Apr. 13; Gaz. vol. 213; p. 522.
 Brotherton, Harrison, Ashton-upon-Mersey, England. Flexible curve device for drawing-office and other purposes. No. 1,161,451; Nov. 23; Gaz. vol. 220; p. 1205.
 Brouff, William C. (See McKinnon and Brouff.)
 Broughton, Walter C., Kansas City, Mo. Concrete building. No. 1,155,037; Sept. 28; Gaz. vol. 218; p. 1032.
 Broughton, Walter C., Kansas City, Mo. Concrete building. No. 1,155,038; Sept. 28; Gaz. vol. 218; p. 1032.
 Broughton, Winn E., assignor to The Turner Tanning Machinery Company, Peabody, Mass. Positively-driven ring-roll. No. 1,158,627; Nov. 2; Gaz. vol. 220; p. 77.
 Broughton, Winn E., assignor to The Turner Tanning Machinery Company, Peabody, Mass. Apparatus for treating hides and skins. No. 1,158,628; Nov. 2; Gaz. vol. 220; p. 78.
 Broughton, Winn E., assignor to The Turner Tanning Machinery Company, Peabody, Mass. Clutch mechanism. No. 1,165,066; Dec. 21; Gaz. vol. 221; p. 900.
 Brouillet, Georges A., Brookline, Mass. Filling teeth. No. 1,126,949; Feb. 2; Gaz. vol. 211; p. 99.
 Brouillette, Alfred L., Campbell, Nebr., assignor of one-half to R. C. Chevalier, Holst. No. 1,140,440; May 25; Gaz. vol. 214; p. 1064.
 Brousseau, Harry, New York, N. Y. Rotary pump, &c. No. 1,128,579; Feb. 16; Gaz. vol. 211; p. 759.
 Browers, John, Sparta, Mich. Furnace. No. 1,145,970; July 13; Gaz. vol. 216; p. 367.
 Brouyette, Charles D., and G. P. McEntire, Topeka, Kans., assignors to McEntire Brothers, Bod or cot. No. 1,139,099; May 11; Gaz. vol. 214; p. 524.
 Broward, Benjamin T., Cleveland, Ohio. Metal-working machine. No. 1,148,007; July 27; Gaz. vol. 216; p. 1128.

Alphabetical list of patentees—Continued.

- Brower, Clarence L. (See Addicks and Brower.)
- Brower, Edward S., Ridgewood, N. J. Internal-combustion engine. No. 1,126,950; Feb. 2; Gaz. vol. 211; p. 99.
- Brower, Edward S., Ridgewood, N. J. Internal-combustion engine. No. 1,146,782; July 20; Gaz. vol. 216; p. 672.
- Brower, Josie M., Bartlesville, Okla. Mop. No. 1,156,750; Oct. 12; Gaz. vol. 219; p. 522.
- Brown, Abia W., Fredonia, Ariz. Safety-bridle. No. 1,126,697; Feb. 2; Gaz. vol. 211; p. 10.
- Brown, Abraham, Elkhorn, W. Va. Mail-bag receiving and delivering mechanism. No. 1,166,323; Dec. 28; Gaz. vol. 221; p. 1383.
- Brown, Abraham A., New York, N. Y., assignor to Sanitary Method Co. Inc. Trousers. No. 1,126,379; Jan. 26; Gaz. vol. 210; p. 1238.
- Brown, Albert A., Chicago, Ill. Pocket. No. 1,128,941; Feb. 16; Gaz. vol. 211; p. 887.
- Brown, Albert C. (See Parkes, John L., assignor.)
- Brown, Albert C., Chicago, Ill. Drinking-fount. No. 1,124,693; Jan. 12; Gaz. vol. 210; p. 568.
- Brown, Albert C., Chicago, Ill. Rapid-compression cock. No. 1,148,441; July 27; Gaz. vol. 216; p. 1282.
- Brown, Albert C., Chicago, Ill. Self-closing cock or faucet. No. 1,153,370; Sept. 14; Gaz. vol. 218; p. 395.
- Brown, Albert T. (See Eustis and Brown.)
- Brown, Alexander P., Long Island City, N. Y. Piano-maker's tool. No. 1,164,255; Dec. 14; Gaz. vol. 220; p. 575.
- Brown, Alexander T. (See Kippen, Brown, and White.)
- Brown, Alexander T., Syracuse, N. Y. Type-bar antifriction-bearing. No. 1,159,645; Nov. 9; Gaz. vol. 220; p. 465.
- Brown, Alfred G., assignor to Union Fibre Company, Winona, Minn. Machine for manufacturing insulating boards from fibrous material. No. 1,151,563; Aug. 31; Gaz. vol. 217; p. 1350.
- Brown, Alfred G., assignor to Union Fibre Company, Winona, Minn. Car insulation. No. 1,156,206; Oct. 12; Gaz. vol. 219; p. 331.
- Brown, Alfred H., Jersey City, N. J. Swimming device. No. 1,140,107; May 18; Gaz. vol. 214; p. 915.
- Brown, Alfred W., Soho Foundry, near Birmingham, England. Apparatus for testing or proving the center of gravity of connecting-rods. No. 1,124,359; Jan. 12; Gaz. vol. 210; p. 457.
- Brown, Allen B., Portland, Oreg. Sash-lock. No. 1,140,945; May 25; Gaz. vol. 214; p. 1242.
- Brown, Alvah W., and G. W. Sinclair, assignors to Durfee Embalming Fluid Co., Grand Rapids, Mich. Folding chair. No. 1,143,355; June 15; Gaz. vol. 215; p. 872.
- Brown, Alvan B., assignor of one-half to C. H. Field, Grand Rapids, Mich. Variable nozzle. No. 1,151,656; Aug. 31; Gaz. vol. 217; p. 1382.
- Brown, Alvin, Plainfield, Ill. Street-sweeper. No. 1,144,292; June 22; Gaz. vol. 215; p. 1223.
- Brown, Archie J., Chicago, Ill. Electric sign. No. 1,129,632; Feb. 23; Gaz. vol. 211; p. 1164.
- Brown, Artemus C., Salisbury, Md. Miter-box. No. 1,123,235; Jan. 5; Gaz. vol. 210; p. 11.
- Brown, Arthur E., assignor to Brown & Bailey Company, Philadelphia, Pa. Knockdown box. No. 1,145,668; July 6; Gaz. vol. 216; p. 242.
- Brown, Arthur J., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Dynamo-electric machine. No. 1,151,860; Aug. 31; Gaz. vol. 217; p. 1454.
- Brown, Augustus F., assignor to Gorrell Steel Spike Lock Railroad Tie Corporation, Havre de Grace, Md. Fastening means. No. 1,127,176; Feb. 2; Gaz. vol. 211; p. 181.
- Brown, Augustus F., assignor to Gorrell Steel Spike Lock Railroad Tie Corporation, Havre de Grace, Md. Metallic railway-tie. No. 1,127,350; Feb. 2; Gaz. vol. 211; p. 238.
- Brown, Augustus F., assignor to Gorrell Steel Spike Lock Railroad Tie Corporation, Havre de Grace, Md. Insulating fastening means for rails. No. 1,142,232; June 8; Gaz. vol. 215; p. 440.
- Brown, Augustus F., assignor to Gorrell Steel Spike Lock Railroad Tie Corporation, Havre de Grace, Md. Metallic railway-tie. No. 1,158,975; Nov. 2; Gaz. vol. 220; p. 196.
- Brown Automatic Indicator Company. (See Brown, George, assignor.)
- Brown Bag Filling Machine Company. (See Barter, Frank, assignor.)
- Brown & Bailey Company. (See Brown, Arthur E., assignor.)
- Brown & Bailey Company. (See Brown, Robert P., assignor.)
- Brown, Bence O., Colorado, Tex. Necktie-presser. No. 1,164,462; Dec. 14; Gaz. vol. 221; p. 650.
- Brown and Bigelow. (See Kristofek, Frank J., assignor.)
- Brown, Brasier H., Monon, Ind. Vehicle-tire. No. 1,162,900; Dec. 7; Gaz. vol. 221; p. 57.
- Brown, Carl A., Fostoria, Ohio, assignor to General Electric Company. Electric-lighting fixture. No. 1,157,294; Oct. 19; Gaz. vol. 219; p. 744.
- Brown, Carl E. (See Howard, Sidney C., assignor.)
- Brown, Carl E., Columbus, assignor to D. I. Hoch, Bellevue, Ohio. Collar-button. No. 1,128,750; Feb. 16; Gaz. vol. 211; p. 817.
- Brown, Caroline M., Minneapolis, assignor to Automatic Heat Regulator Co., St. Paul, Minn. Damper. No. 1,136,209; Apr. 20; Gaz. vol. 213; p. 835.
- Brown, Charles A., Hinsdale, Ill. System for operating burners by means of liquid fuel. No. 1,160,371; Nov. 16; Gaz. vol. 220; p. 773.
- Brown, Charles D., trustee. (See Ross, Charles S., assignor.)
- Brown, Charles D., Lisbon, Iowa. End-gate. No. 1,162,561; Nov. 30; Gaz. vol. 220; p. 1635.
- Brown, Charles F., trustee. (See Coy, Frederick W., assignor.)
- Brown, Charles F., assignor to Universal Liquid Register Company, New York, N. Y. Automobile liquid-fuel-tank register. No. 1,134,585; Apr. 6; Gaz. vol. 213; p. 183.
- Brown, Charles F., assignor to Universal Liquid Register Company, New York, N. Y. Liquid-measuring apparatus. No. 1,144,583; June 29; Gaz. vol. 215; p. 1349.
- Brown, Charles F., assignor to Universal Liquid Register Company, New York, N. Y. Liquid measuring and registering apparatus. No. 1,146,232; July 13; Gaz. vol. 216; p. 460.
- Brown, Charles F., assignor to Universal Liquid Register Company, New York, N. Y. Piston-valve for liquid-measuring apparatus. No. 1,162,562; Nov. 30; Gaz. vol. 220; p. 1635.
- Brown, Charles H., and C. C. Parker, Eureka, Utah. Ore-separator. No. 1,152,351; Aug. 31; Gaz. vol. 217; p. 1623.
- Brown, Charles H. and M., San Francisco, Cal. Sanitary earlidge-receptacle. No. 1,158,783; Nov. 2; Gaz. vol. 220; p. 131.
- Brown, Charles J. (See Marston, Edgar L., assignor.)
- Brown, Charles J., Newton, Mass. Knockdown extension dining-table. No. 1,143,805; June 22; Gaz. vol. 215; p. 1051.
- Brown, Charles O., Minot, N. D. Ironing-board. No. 1,153,758; Sept. 14; Gaz. vol. 218; p. 530.
- Brown, Charles S., Rice, Wash. Silo-door. No. 1,145,550; July 6; Gaz. vol. 216; p. 201.
- Brown, Charles S., Nashville, Tenn. Trap for separating fluids of different characteristics and particularly for separating liquids and gases from vapors. No. 1,163,316; Dec. 7; Gaz. vol. 221; p. 203.
- Brown, Charles T., et al. (See Bailey, Arlon D., assignor.)
- Brown, Charles T., assignor of sixty-six and two-thirds one-hundredths to J. H. Ware, Chicago, Ill. Shock-absorber. No. 1,161,185; Nov. 23; Gaz. vol. 220; p. 1110.
- Brown, Charles W. (See Pelz, Adolf F., assignor.)
- Brown, Charles W., trustee. (See Noyes, Edward P., assignor.)
- Brown, Cheney C. (See Milliken, Frank W., assignor.)
- Brown, Clair H., Detroit, Mich. Time-indicator. No. 1,128,751; Feb. 16; Gaz. vol. 211; p. 817.
- Brown, Clarence H., Bridgeport, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,137,115; Apr. 27; Gaz. vol. 213; p. 1195.
- Brown, Clark J., Petersburg, Va. Note-book and holder for same. No. 1,152,702; Sept. 7; Gaz. vol. 218; p. 119.
- Brown, Claude A. (See Birkinshaw and Brown.)
- Brown, Curtis P., East Hampton, Conn. Section-roller. No. 1,145,745; July 6; Gaz. vol. 216; p. 270.
- Brown, David A., Woodbridge, N. J. Water-closet disinfectant-holder. No. 1,129,066; Feb. 23; Gaz. vol. 211; p. 965.
- Brown, David A., Woodbridge, N. J. Urinal disinfectant-holder. No. 1,130,139; Mar. 2; Gaz. vol. 212; p. 103.
- Brown, David A., Woodbridge, N. J. Water-closet disinfectant-holder. No. 1,145,669; July 6; Gaz. vol. 216; p. 242.
- Brown, David E., Syracuse, N. Y. Ladder-scaffold. No. 1,148,350; July 27; Gaz. vol. 216; p. 1252.
- Brown, David L., assignor of one-third to E. M. Bacharach, one-sixth to M. J. Vogel, and one-sixth to E. Hirsch, New York, N. Y. Shutter-controlling device. No. 1,159,169; Nov. 2; Gaz. vol. 220; p. 263.
- Brown, Davis, Bucyrus, Ohio, assignor to American Clay Machinery Company. Brick and tile cutting machine. No. 1,166,409; Dec. 28; Gaz. vol. 221; p. 1414.
- Brown, Delbert C., Acres, Kans. Case for chewing-gum, tickets, or other similar articles. No. 1,131,112; Mar. 9; Gaz. vol. 212; p. 475.
- Brown, Edgar C., and W. B. May, Wadesboro, N. C. Card-door lock. No. 1,144,345; June 29; Gaz. vol. 215; p. 1270.
- Brown, Edmund E., Persia, Iowa. Seed-corn hanger or drying-rack. No. 1,142,484; June 8; Gaz. vol. 215; p. 529.
- Brown, Edward N. (See Owen and Brown.)
- Brown, Edward N. (See Pecinovsky and Brown.)
- Brown, Edward N., Cleveland, Ohio. Davenport-bed. No. 1,144,293; June 22; Gaz. vol. 215; p. 1223.
- Brown, Edward N., Cleveland, assignor of one-half to J. Gordon, East Cleveland, Ohio. Steam-vulcanizer. No. 1,151,924; Aug. 31; Gaz. vol. 217; p. 1475.

- Brown, Edward W., Holborn, London, England. Machine for intermittently displaying posters and the like. No. 1,132,910; Mar. 23; Gaz. vol. 212; p. 1203.
- Brown, Edwin P. (See Fitzgerald, William H. J., assignor.)
- Brown, Ellsworth D. (See Johnson, James A., assignor.)
- Brown, Elmer H. (See Williams and Brown.)
- Brown, Elmer R., New York, N. Y. Compound rail. No. 1,136,585; Apr. 20; Gaz. vol. 213; p. 970.
- Brown, Enoch S., assignor of one-half to W. M. Shields, Afton, Iowa. Corn-harvester. No. 1,140,244; May 18; Gaz. vol. 214; p. 960.
- Brown, Everett A., Calverton, N. Y. Exercising apparatus. No. 1,146,843; July 20; Gaz. vol. 216; p. 693.
- Brown, Francis H., Ridley Park, Pa. Regulation mechanism. No. 1,150,097; Aug. 17; Gaz. vol. 217; p. 741.
- Brown, Frank D., and J. H. Werling, Huntington, Ind. Apparatus for opening and closing doors, gates, &c. No. 1,126,380; Jan. 26; Gaz. vol. 210; p. 1238.
- Brown, Frederick E., Boston, Mass. Gas-burner. No. 1,150,166; Aug. 17; Gaz. vol. 217; p. 766.
- Brown, Garnet C. (See Stone and Brown.)
- Brown, George, Sarnia, Ontario, Canada, assignor to Brown Automatic Indicator Company, Port Huron, Mich. Signal system. No. 1,131,770; Mar. 16; Gaz. vol. 212; p. 739.
- Brown, George A., Cleveland, Ohio. Receptacle-holder. No. 1,164,701; Dec. 21; Gaz. vol. 221; p. 773.
- Brown, George C., Indianapolis, Ind. Self-locking pin. No. 1,139,337; May 11; Gaz. vol. 214; p. 604.
- Brown, George D. (See Cheetham, Walter, assignor.)
- Brown, George E., Summit, N. J. Shovel. No. 1,132,067; Mar. 16; Gaz. vol. 212; p. 847.
- Brown, George E., Lowell, Mass. Animal-trap. No. 1,164,916; Dec. 21; Gaz. vol. 221; p. 848.
- Brown, George P., Winnipeg, Manitoba, Canada. Coffin. No. 1,139,254; May 11; Gaz. vol. 214; p. 576.
- Brown, George H., Point Loma, Cal. Etching-machine. No. 1,132,911; Mar. 23; Gaz. vol. 212; p. 1203.
- Brown, George M., Cambridge, Mass. Carbureter. No. 1,151,159; Aug. 24; Gaz. vol. 217; p. 1167.
- Brown, George T. (See Lyons, John S., assignor.)
- Brown, George W., Maynard, Mass. Fountain-syringe. No. 1,161,836; Nov. 30; Gaz. vol. 220; p. 1383.
- Brown, Gregory. (See Craft and Brown.)
- Brown, Gregory, Brooklyn, assignor to Western Electric Company, New York, N. Y. Signaling system for train-despatching. No. 1,131,673; Mar. 16; Gaz. vol. 212; p. 704.
- Brown, Gregory, Brooklyn, assignor to Western Electric Company, New York, N. Y. Impulse-transmitter for selective systems. No. 1,155,640; Oct. 5; Gaz. vol. 219; p. 109.
- Brown, Harold A., assignor of one-half to J. Burdett and one-half to A. B. Alden, Brockton, Mass. Skiving-machine. No. 1,139,480; May 18; Gaz. vol. 214; p. 692.
- Brown, Harold P., Montclair, N. J. Producing railway-rails. No. 1,127,177; Feb. 2; Gaz. vol. 211; p. 181.
- Brown, Harold W., Ithaca, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Electrical protective device. No. 1,159,892; Nov. 9; Gaz. vol. 220; p. 554.
- Brown, Harry, Canton, Pa. Railway-tie. No. 1,129,163; Feb. 23; Gaz. vol. 211; p. 999.
- Brown, Harry, New York, N. Y. Necktie-package. No. 1,134,722; Apr. 6; Gaz. vol. 213; p. 234.
- Brown, Harry H., Passaic, N. J. Switch-support. No. 1,125,952; Jan. 26; Gaz. vol. 210; p. 1082.
- Brown, Harry W., assignor to J. G. Trainer, Chicago, Ill. Recording-lock. No. 1,127,178; Feb. 2; Gaz. vol. 211; p. 181.
- Brown, Henry C., Fort Smith, Ark. Switch-operating mechanism. No. 1,161,605; Nov. 23; Gaz. vol. 220; p. 1258.
- Brown, Henry C., Brooklyn, N. Y., assignor of one-third to H. Stockman, Englewood, N. J., and one-third to I. C. Lowenthal, New York, N. Y. Spring-wheel for vehicles. No. 1,149,624; Aug. 10; Gaz. vol. 217; p. 511.
- Brown, Henry J., New York, N. Y. Soldier's shield. No. 1,156,879; Oct. 19; Gaz. vol. 219; p. 596.
- Brown, Henry L., Paterson, N. J., assignor to Brown Spin-Wright Company, New York, N. Y. Apparatus for spinning thread and the like. No. 1,146,048; July 13; Gaz. vol. 216; p. 396.
- Brown, Henry L., Paterson, N. J., assignor to Brown Spin-Wright Company, New York, N. Y. Power-transmitting mechanism. No. 1,149,717; Aug. 10; Gaz. vol. 217; p. 543.
- Brown, Henry L., Paterson, N. J., assignor to Brown Spin-Wright Company, New York, N. Y. Textile apparatus. No. 1,149,718; Aug. 10; Gaz. vol. 217; p. 543.
- Brown, Henry L., assignor to Brown Spin-Wright Company, New York, N. Y. Power-transmitting mechanism. No. 1,149,625; Aug. 10; Gaz. vol. 217; p. 512.
- Brown, Henry L., assignor to Brown Spin-Wright Company, New York, N. Y. Spindle. No. 1,149,719; Aug. 10; Gaz. vol. 217; p. 544.
- Brown, Herman E., Kingston, N. Y. Obtaining alkali-metal compounds. No. 1,123,841; Jan. 5; Gaz. vol. 210; p. 219.
- Brown, Herman E., San Francisco, Cal. Washboiler. No. 1,132,431; Mar. 16; Gaz. vol. 212; p. 979.
- Brown, Herman E., Kingston, assignor of one-half to W. R. Warren, New York, N. Y. Making hydraulic cement. No. 1,124,238; Jan. 5; Gaz. vol. 210; p. 356.
- Brown Hoisting Machinery Company, The. (See Colby and Stewart, assignors.)
- Brown Hoisting Machinery Company, The. (See Colby and Taylor, assignors.)
- Brown Hoisting Machinery Company, The. (See Deucher, Eugene G., assignor.)
- Brown Hoisting Machinery Company, The, et al. (See Dowd and Thompson, assignors.)
- Brown Hoisting Machinery Company, The. (See Monroe, Will K., assignor.)
- Brown Hoisting Machinery Company, The. (See Sheridan, Richard B., assignor.)
- Brown, Horace P. (See Johnston and Brown.)
- Brown, Horace P., and C. L. Johnston, Emeryville, Cal. Loose-leaf-dispensing device. No. 1,135,658; Apr. 13; Gaz. vol. 213; p. 602.
- Brown, Howard, Springfield, Mass. Ledger-sheet and its production. No. 1,146,997; July 20; Gaz. vol. 216; p. 749.
- Brown, Howard, Springfield, Mass. Apparatus for controlling the thickness of paper. No. 1,157,204; Oct. 19; Gaz. vol. 219; p. 712.
- Brown, Howard, Mittineague, Mass. Paper-marking device. No. 1,152,393; Sept. 7; Gaz. vol. 218; p. 4.
- Brown, Howard J., Marseilles, Ill., assignor to Howe and Davidson Company, East Orange, N. J. Separator. No. 1,142,017; June 8; Gaz. vol. 215; p. 364.
- Brown, Hugh, Battle Creek, Mich. Box or crate. No. 1,133,001; Mar. 23; Gaz. vol. 212; p. 1238.
- Brown, Hugh, Battle Creek, Mich., assignor to The Green-street Folding Box Machine Company, Indianapolis, Ind. Box-blank machine. No. 1,140,297; May 18; Gaz. vol. 214; p. 978.
- Brown, Ida, San Francisco, Cal. Buttonhole-guide. No. 1,141,761; June 1; Gaz. vol. 215; p. 237.
- Brown Instrument Company, The. (See Cornman, George W. W., assignor.)
- Brown, Ira, et al. (See Harwood, William W., assignor.)
- Brown, James. (See Thomas, Bradford A., assignor.)
- Brown, James, Liverpool, England. Life-saving belt or buoy. No. 1,156,749; Oct. 12; Gaz. vol. 219; p. 521.
- Brown, James E. (See Martin, Aubrey H., assignor.)
- Brown, James F., Bokhoma, Okla. Attachment for scrapers. No. 1,155,039; Sept. 28; Gaz. vol. 218; p. 1032.
- Brown, James H., Coleman, Wis. Fender. No. 1,159,170; Nov. 2; Gaz. vol. 220; p. 263.
- Brown, James W., Covington, Ky. Garment-supporter. No. 1,146,126; July 13; Gaz. vol. 216; p. 423.
- Brown, James W., Canton, Ohio. Piano-truck. No. 1,164,332; Dec. 14; Gaz. vol. 221; p. 604.
- Brown, Jesse B., Detroit, Mich. Internal-combustion engine. No. 1,148,571; Aug. 3; Gaz. vol. 217; p. 32.
- Brown, Jesse B., Detroit, Mich. Internal-combustion engine. No. 1,148,657; Aug. 3; Gaz. vol. 217; p. 63.
- Brown, John E., Mitchellville, Iowa. End-raising platform-canvas. No. 1,123,842; Jan. 5; Gaz. vol. 210; p. 219.
- Brown, John H. (See Roberts and Brown.)
- Brown, John H., Morley, Mo. Draft appliance for harrows. No. 1,124,848; Jan. 12; Gaz. vol. 210; p. 623.
- Brown, John H., Morley, Mo. Harrow. No. 1,125,808; Jan. 19; Gaz. vol. 210; p. 1000.
- Brown, John H., Grand Forks, N. D. Wrench. No. 1,131,035; Mar. 9; Gaz. vol. 212; p. 449.
- Brown, John H., Midvale, Utah. Automatic vehicle tire-signal. No. 1,137,116; Apr. 27; Gaz. vol. 213; p. 1196.
- Brown, John H., Oneida, N. Y. Garment. No. 1,138,623; May 11; Gaz. vol. 214; p. 353.
- Brown, John H., Springfield, Mass. Garbage-can. No. 1,163,389; Dec. 7; Gaz. vol. 221; p. 229.
- Brown, John H. M., Vicksburg, Miss. Leveling device. No. 1,125,807; Jan. 19; Gaz. vol. 210; p. 1000.
- Brown, John J., Newark, N. J. Condensing apparatus. No. 1,144,104; June 22; Gaz. vol. 215; p. 1157.
- Brown, John L., assignor to E. R. Cooper, Baltimore, Md. Alloy and producing the same. No. 1,151,160; Aug. 24; Gaz. vol. 217; p. 1167.
- Brown, John O., Allerton, Iowa. Stump-puller. No. 1,160,038; Nov. 9; Gaz. vol. 220; p. 604.
- Brown, John R., Brighton, England. Clamping device for use with rods and the like. No. 1,125,953; Jan. 26; Gaz. vol. 210; p. 1083.
- Brown, John T. S., Jr., Prospect, Ky. Pump. No. 1,156,052; Oct. 12; Gaz. vol. 219; p. 279.
- Brown, John T. S., Jr., Prospect, Ky. Pump. No. 1,156,882; Oct. 19; Gaz. vol. 219; p. 597.
- Brown, John W., Washington, D. C. Pan-lifter. No. 1,123,988; Jan. 5; Gaz. vol. 210; p. 267.
- Brown, John W., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Brake-operating device. No. 1,124,998; Jan. 12; Gaz. vol. 210; p. 675.
- Brown, John W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Quick graphitization of carbon articles. No. 1,133,259; Mar. 30; Gaz. vol. 212; p. 1365.

Alphabetical list of patentees—Continued.

- Brown, John W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electric furnace. No. 1,134,817; Apr. 6; Gaz. vol. 213; p. 266.
- Brown, John W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electric furnace. No. 1,143,940; June 22; Gaz. vol. 215; p. 1097.
- Brown, John W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electric furnace. No. 1,147,703; July 27; Gaz. vol. 216; p. 1021.
- Brown, John W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Cementing carbon articles. No. 1,158,171; Oct. 26; Gaz. vol. 219; p. 1114.
- Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Valve mechanism. No. 1,126,381; Jan. 26; Gaz. vol. 210; p. 1238.
- Brown, John W. R., and G. S. Otey, Dallas, Tex. Automatic stop device for printing-presses. No. 1,129,844; Mar. 2; Gaz. vol. 212; p. 4.
- Brown, Landy B. (See Ries and Brown.)
- Brown, Landy B. (See Ries, Brown, and Yockel.)
- Brown, Leighton L., Minneapolis, and C. H. Patek, Brainerd, Minn., assignors of five-eighths to said Patek. Damper. No. 1,140,871; May 25; Gaz. vol. 214; p. 1215.
- Brown, Leonard, Cambridge, Idaho. Reversible gang-plow. No. 1,149,720; Aug. 10; Gaz. vol. 217; p. 544.
- Brown, Leonard, Cambridge, assignor of two-fifths to E. H. Swisher, Indian Valley, Idaho. Reversible gang-plow. No. 1,127,179; Feb. 2; Gaz. vol. 211; p. 181.
- Brown, Levi, assignor to J. M. Lontz, Richmond, Ind. Wheel-mounting. No. 1,123,236; Jan. 5; Gaz. vol. 210; p. 12.
- Brown, Levi, assignor to Clarinda Lawn Mower Company, Clarinda, Iowa. Driving mechanism. No. 1,135,496; Apr. 13; Gaz. vol. 213; p. 543.
- Brown, Louis E., assignor to Farrington Manufacturing Company, Roxbury, Mass. Machine for covering eye-glass-cases. No. 1,130,790; Mar. 9; Gaz. vol. 212; p. 365.
- Brown, Louis E., assignor to Farrington Manufacturing Company, Roxbury, Mass. Affixing covering material to frames. No. 1,152,786; Sept. 7; Gaz. vol. 218; p. 148.
- Brown, Louis H., New York, N. Y. Can and stopper therefor. No. 1,124,999; Jan. 12; Gaz. vol. 210; p. 676.
- Brown, Louis L., New York, N. Y., assignor to The Foundation Company. Apparatus and method for building foundations and the like. No. 1,159,171; Nov. 2; Gaz. vol. 220; p. 264.
- Brown, Louis M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pincers. No. 1,144,294; June 22; Gaz. vol. 215; p. 1224.
- Brown, Lucius A., Clay Center, Nebr. Butter-merging apparatus. No. 1,141,762; June 1; Gaz. vol. 215; p. 237.
- Brown, Lute, Fairmont, W. Va. Elastic connection. No. 1,165,839; Dec. 28; Gaz. vol. 221; p. 1208.
- Brown Machinery Manufacturing Company. (See Brown, Sherman T., assignor.)
- Brown, Marie. (See Brown, Charles H. and M.)
- Brown, Mark A. (See Renner and Brown.)
- Brown, Mark A., Chattanooga, Tenn. Car-coupling. No. 1,127,584; Feb. 9; Gaz. vol. 211; p. 361.
- Brown, Mark A., Chattanooga, Tenn. Car-coupling. No. 1,146,233; July 13; Gaz. vol. 216; p. 461.
- Brown, Matthias G., Gulfport, Miss. Grease-cup. No. 1,141,101; June 1; Gaz. vol. 215; p. 4.
- Brown, Maud V., Crowther, Tex. Foot-scraper for vehicles. No. 1,146,399; July 13; Gaz. vol. 216; p. 518.
- Brown, Milo, assignor of one-half to W. B. Kirby, Wellington, Tex. Pipe-clamp. No. 1,153,024; Sept. 7; Gaz. vol. 218; p. 236.
- Brown, Nelson, La Farge, Wis. Concrete culvert. No. 1,124,284; Jan. 12; Gaz. vol. 210; p. 421.
- Brown, Norton M., Aurora, Ill. Friction-clutch for ensilage-machines. No. 1,128,942; Feb. 16; Gaz. vol. 211; p. 887.
- Brown, Norton M., Aurora, Ill. Gearing for ensilage-machines. No. 1,136,650; Apr. 20; Gaz. vol. 213; p. 992.
- Brown, Norton M., Aurora, Ill. Machine element. No. 1,151,338; Aug. 24; Gaz. vol. 217; p. 1226.
- Brown, Oscar E., Buffalo, N. Y. Non-slipping attachment for horseshoes. No. 1,160,834; Nov. 16; Gaz. vol. 220; p. 940.
- Brown, Otis E., Brockton, Mass., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,123,237; Jan. 5; Gaz. vol. 210; p. 12.
- Brown, Otis E., Brockton, Mass., assignor to The Singer Manufacturing Company. Work-holder for sewing-machines. No. 1,136,651; Apr. 20; Gaz. vol. 213; p. 992.
- Brown, Otis E., Brockton, Mass., assignor to The Singer Manufacturing Company. Stitch-forming device. No. 1,152,482; Sept. 7; Gaz. vol. 218; p. 37.
- Brown, Owen R., Chatham, N. J. Sash-fastener. No. 1,144,635; June 29; Gaz. vol. 215; p. 1367.
- Brown, Patrick J., Cleveland, Ohio. Hot-blast stove. No. 1,140,872; May 25; Gaz. vol. 214; p. 1216.
- Brown, Paul, St. Louis, Mo. Furnace appliance. No. 1,133,612; Mar. 30; Gaz. vol. 212; p. 1492.
- Brown, Paul O. (See Burgess, James C., assignor.)
- Brown Perfection Tube Company. (See Voorhees, John J., assignor.)
- Brown, Perry, Coraopolis, Pa. Draft-rigging. No. 1,131,205; Mar. 9; Gaz. vol. 212; p. 507.
- Brown, Perry, Coraopolis, Pa. Car-brake. (Reissue.) No. 13,964; Aug. 24; Gaz. vol. 217; p. 1301.
- Brown, Perry, Coraopolis, Pa. Car-brake. (Reissue.) No. 13,965; Aug. 24; Gaz. vol. 217; p. 1303.
- Brown, Perry, Coraopolis, Pa. Journal-box. No. 1,155,040; Sept. 28; Gaz. vol. 218; p. 1033.
- Brown, Perry, Coraopolis, Pa. Lid for journal-boxes. No. 1,156,880; Oct. 19; Gaz. vol. 219; p. 596.
- Brown, Perry, Coraopolis, Pa. Draft-rigging. No. 1,156,881; Oct. 19; Gaz. vol. 219; p. 596.
- Brown, Phelps, Springfield, Mass. Battery. No. 1,160,491; Nov. 16; Gaz. vol. 220; p. 817.
- Brown, Philip G., Duluth, Minn. Robe-lock. No. 1,129,378; Feb. 23; Gaz. vol. 211; p. 1074.
- Brown, Philip G., Duluth, Minn. Robe-rail. No. 1,129,379; Feb. 23; Gaz. vol. 211; p. 1075.
- Brown, Philip V., New York, N. Y. Device for withdrawing blood from the body. No. 1,124,285; Jan. 12; Gaz. vol. 210; p. 421.
- Brown, Raymond E., and E. C. Gaines, assignors to Heyl & Patterson Inc., Pittsburgh, Pa. Rail-clamp for traveling-bridges. No. 1,153,672; Sept. 14; Gaz. vol. 218; p. 501.
- Brown, Reuben H., New Haven, Conn. Carton-feeding machine. No. 1,133,532; Mar. 30; Gaz. vol. 212; p. 1463.
- Brown, Rhinehart H., Chicago, Ill., assignor to La Porte Outing Sulky Company, Laporte, Ind. Collapsible sulky. No. 1,148,658; Aug. 3; Gaz. vol. 217; p. 63.
- Brown, Richard P., Philadelphia, Pa. Thermo-electric pyrometer system. No. 1,144,688; June 29; Gaz. vol. 215; p. 1385.
- Brown, Richard R., Lebanon, Mo. Device to prevent theft from cars. No. 1,160,835; Nov. 16; Gaz. vol. 220; p. 941.
- Brown, Richard R., assignor to Belvidere Screw & Machine Company, Belvidere, Ill. Stock-stop for screw-machines. No. 1,139,752; May 18; Gaz. vol. 214; p. 787.
- Brown, Robert. (See Stevenson and Brown.)
- Brown, Robert, Craigton, Glasgow, Scotland. Pulley-block. No. 1,142,485; June 8; Gaz. vol. 215; p. 529.
- Brown, Robert B., Washington, D. C. Handle-grip. No. 1,139,843; May 18; Gaz. vol. 214; p. 820.
- Brown, Robert P., assignor to Brown & Bailey Company, Philadelphia, Pa. Knockdown box. No. 1,140,794; May 25; Gaz. vol. 214; p. 1186.
- Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Turret for metal-working machines. No. 1,125,054; Jan. 19; Gaz. vol. 210; p. 731.
- Brown, Roy M., Wilmington, Ohio. Band-brake. No. 1,141,035; May 25; Gaz. vol. 214; p. 1271.
- Brown, S. E., et al. (See Powell, Charles J., assignor.)
- Brown, Samuel J., assignor of one-half to Z. Giberson, Vancouver, British Columbia, Canada. Inserted tooth for saws. No. 1,140,021; May 18; Gaz. vol. 214; p. 883.
- Brown, Samuel W., Klingerstown, Pa. Rail-joint. No. 1,157,145; Oct. 19; Gaz. vol. 219; p. 690.
- Brown, Santiago L., New York, N. Y. Hardening iron. No. 1,140,568; May 25; Gaz. vol. 214; p. 1111.
- Brown & Sharpe Manufacturing Co. (See Townsend, Herbert E., assignor.)
- Brown & Sharpe Manufacturing Company. (See Rich, Charles A., assignor.)
- Brown, Sherman T., assignor to Brown Machinery Manufacturing Company, St. Paul, Minn. Box-flanging machine. No. 1,138,351; May 4; Gaz. vol. 214; p. 222.
- Brown, Sidney G., London, England. Telephone-relay. No. 1,128,943; Feb. 16; Gaz. vol. 211; p. 887.
- Brown, Sidney G., London, England. Electrical relay. No. 1,128,944; Feb. 16; Gaz. vol. 211; p. 888.
- Brown, Sidney G., London, England. Telephony. No. 1,133,923; Mar. 30; Gaz. vol. 212; p. 1601.
- Brown, Sidney G., London, England. Compensating device for telephonic circuits. No. 1,140,946; May 25; Gaz. vol. 214; p. 1242.
- Brown, Silas B., assignor to The Rockaway Manufacturing Company, Cincinnati, Ohio. Can-caster. No. 1,130,684; Mar. 2; Gaz. vol. 212; p. 295.
- Brown Spin-Wright Company. (See Brown, Henry L., assignor.)
- Brown, Stanley, Garden City, N. Y. Direct-view finder for cameras. No. 1,140,108; May 18; Gaz. vol. 214; p. 915.
- Brown, Stanley, Garden City, N. Y. Direct-view finder for folding cameras. No. 1,151,564; Aug. 31; Gaz. vol. 217; p. 1350.
- Brown, Stanley, Garden City, N. Y. Finder for cameras. No. 1,154,966; Sept. 28; Gaz. vol. 218; p. 1009.
- Brown, Stanley, Garden City, N. Y. Camera. No. 1,160,136; Nov. 16; Gaz. vol. 220; p. 693.
- Brown, Stanley L., Spokane, Wash. Carbonator for soda-fountains. No. 1,143,941; June 22; Gaz. vol. 215; p. 1098.
- Brown, Stewart, Chicago, Ill. Collapsible sheet-metal wall. No. 1,156,053; Oct. 12; Gaz. vol. 219; p. 279.

Alphabetical list of patentees—Continued.

- Brown, Theodore P., Worcester, Mass., assignor to Simplex Player Action Company. Pedals for musical instruments. No. 1,129,067; Feb. 23; Gaz. vol. 211; p. 965.
- Brown, Theophilus, assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. No. 1,126,698; Feb. 2; Gaz. vol. 211; p. 10.
- Brown, Theophilus, Worcester, Mass., assignor, by mesne assignments, to Marseilles Company, East Moline, Ill. Manure-spreader. No. 1,139,481; May 18; Gaz. vol. 214; p. 693.
- Brown, Theophilus, Moline, Ill., assignor to Marseilles Company. Manure-spreader. No. 1,139,482; May 18; Gaz. vol. 214; p. 693.
- Brown, Theophilus, Moline, assignor to Marseilles Company, East Moline, Ill. Manure-spreader. No. 1,139,483; May 18; Gaz. vol. 214; p. 693.
- Brown, Theophilus, assignor to Deere and Company, Moline, Ill. Supply-cart. No. 1,163,610; Dec. 7; Gaz. vol. 221; p. 307.
- Brown, Theophilus, Moline, Ill., assignor to Deere and Company. Coupling for vehicles. No. 1,163,611; Dec. 7; Gaz. vol. 221; p. 307.
- Brown, Thomas A., Chicago, assignor of one-half to A. Mohr, South Chicago, Ill. Hose-coupling. No. 1,130,473; Mar. 2; Gaz. vol. 212; p. 222.
- Brown, Thomas E., New York, N. Y. Bascule-bridge. No. 1,151,657; Aug. 31; Gaz. vol. 217; p. 1382.
- Brown, Thomas E., New York, N. Y. Centrifugal separation. No. 1,159,741; Nov. 9; Gaz. vol. 220; p. 499.
- Brown, Thomas E., New York, N. Y. Centrifugal separation. No. 1,165,567; Dec. 28; Gaz. vol. 221; p. 1113.
- Brown, Thomas E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Furnace-bell hoist. No. 1,127,351; Feb. 2; Gaz. vol. 211; p. 238.
- Brown, Thomas E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevating baggage-truck. No. 1,141,928; June 8; Gaz. vol. 215; p. 332.
- Brown, Thomas E., New York, N. Y., and C. T. Westlin, Arlington, N. J., assignors to The Cotton Machinery Company, New York, N. Y. Machine for use in gathering cotton. No. 1,129,164; Feb. 23; Gaz. vol. 211; p. 999.
- Brown, Thomas F., Bath, N. Y. Tree-standard. No. 1,137,253; Apr. 27; Gaz. vol. 213; p. 1246.
- Brown, Thomas J., Crestwood, Ky. Envelop. No. 1,141,312; June 1; Gaz. vol. 215; p. 80.
- Brown, Wade T., Williamsburg, Va. Sanitary lid-cover. No. 1,133,091; Mar. 23; Gaz. vol. 212; p. 1270.
- Brown, Wallace C., Toronto, Ontario, Canada. Milking apparatus. No. 1,149,246; Aug. 10; Gaz. vol. 217; p. 372.
- Brown, Wallace C., Toronto, Ontario, Canada. Milking-machine. No. 1,163,808; Dec. 14; Gaz. vol. 221; p. 422.
- Brown, Walter J., assignor of one-half to J. Firth, Jr., Springfield, Mass. Internal-combustion engine. No. 1,144,105; June 22; Gaz. vol. 215; p. 1157.
- Brown, Walter S. (See Beatty, Norman L., assignor.)
- Brown, Walter T. (See Rowley and Brown.)
- Brown, Walter W., Erie, Pa. Mechanical movement. No. 1,127,398; Feb. 9; Gaz. vol. 211; p. 296.
- Brown, Walter W., Erie, Pa. Compressor. No. 1,142,299; June 8; Gaz. vol. 215; p. 462.
- Brown, Walter W., Erie, Pa. Fuel-injector. No. 1,164,064; Dec. 14; Gaz. vol. 221; p. 511.
- Brown, Walter W., Erie, Pa., assignor to General Electric Company. Controlling mechanism for internal-combustion engines. No. 1,132,301; Mar. 16; Gaz. vol. 212; p. 933.
- Brown, Walter W., assignor to Fulton Manufacturing Company, Erie, Pa. Controlling device for internal-combustion engines. No. 1,137,254; Apr. 27; Gaz. vol. 213; p. 1246.
- Brown, William. (See Irons, Brown, and Shepherdson.)
- Brown, William A., Evansville, Ind. Collar with tie-slide. No. 1,132,555; Mar. 23; Gaz. vol. 212; p. 1072.
- Brown, William C., Syracuse, N. Y., assignor to Humphrey Gas Pump Company. Utilizing heat energy. No. 1,152,394; Sept. 7; Gaz. vol. 218; p. 4.
- Brown, William F., Womble, Ark. Saw-sharpener. No. 1,145,746; July 6; Gaz. vol. 216; p. 270.
- Brown, William F., assignor of one-half to W. F. Decker, Clinton, Ind. Switch. No. 1,160,039; Nov. 9; Gaz. vol. 220; p. 605.
- Brown, William H., et al. (See Reynolds, George E., assignor.)
- Brown, William H., Jerome, Pa. Trolley-frog. No. 1,149,721; Aug. 10; Gaz. vol. 217; p. 545.
- Brown, William H., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Decimal mechanism for calculating machines. No. 1,160,372; Nov. 16; Gaz. vol. 220; p. 774.
- Brown, William L., Lansdowne, Pa. Prepayment-meter mechanism. No. 1,125,002; Jan. 12; Gaz. vol. 210; p. 677.
- Brown, William L., Lansdowne, assignor to Helme & McIlhenny, Philadelphia, Pa. Prepayment-meter mechanism. No. 1,125,000; Jan. 12; Gaz. vol. 210; p. 676.
- Brown, William L., Lansdowne, assignor to Helme & McIlhenny, Philadelphia, Pa. Prepayment-meter mechanism. No. 1,125,001; Jan. 12; Gaz. vol. 210; p. 677.
- Brown, William L., Lansdowne, assignor to Helme & McIlhenny, Philadelphia, Pa. Meter. No. 1,165,568; Dec. 28; Gaz. vol. 221; p. 1113.
- Brown, William L., and A. J. Menwly, Little Rock, Ark. Engine-rod connection. No. 1,152,876; Sept. 7; Gaz. vol. 218; p. 182.
- Brown, William M., Detroit, Mich. Door-holder. No. 1,149,424; Aug. 10; Gaz. vol. 217; p. 438.
- Brown, William M., Cambridge, Mass. Hot-water bottle. No. 1,156,054; Oct. 12; Gaz. vol. 219; p. 279.
- Brown, William M., Newark, N. J. Egg-grip. No. 1,156,459; Oct. 12; Gaz. vol. 219; p. 420.
- Brown, William R. (See Toles, Justin K., assignor.)
- Brown, William S., Knoxville, Tenn. Positioning mechanism. No. 1,143,634; June 15; Gaz. vol. 215; p. 758.
- Brown, William S., Knoxville, Tenn., assignor, by mesne assignments, to Southern Locomotive Valve Gear Company. Steam-engine valve-gear. (Reissue.) No. 14,014; Nov. 23; Gaz. vol. 220; p. 1332.
- Brown, William T., Hapeville, Ga. Locomotive-headlight. No. 1,138,449; May 4; Gaz. vol. 214; p. 256.
- Brown, William W., Swanson, Saskatchewan, Canada. Combined collar-button and tie-slide. No. 1,146,688; July 13; Gaz. vol. 216; p. 620.
- Brown, Willis S. (See Marean, William M., assignor.)
- Brown, Willis S., Beldvidere, Ill. Spark-plug. No. 1,128,580; Feb. 16; Gaz. vol. 211; p. 759.
- Browne, Alexander P., trustee. (See Bussey, Everett E., assignor.)
- Browne, Allan M., assignor of one-half to M. Young, Pascagoula, Miss. Music-holder. No. 1,161,606; Nov. 23; Gaz. vol. 220; p. 1258.
- Browne Apparatus Company et al. (See Browne, Ralph C., assignor.)
- Browne, Arthur W., Ithaca, N. Y. Playing-cards. No. 1,140,441; May 25; Gaz. vol. 214; p. 1064.
- Browne, Arthur W., Ithaca, and R. P. Nichols, New York, N. Y. Heat-responsive device. No. 1,159,893; Nov. 9; Gaz. vol. 220; p. 554.
- Browne, Harry, et al. (See Abbott, Lawrence A., Jr., assignor.)
- Browne, Harry P. C., Brooklyn, N. Y. Odometer. No. 1,157,365; Oct. 19; Gaz. vol. 219; p. 769.
- Browne, Harry P. C., New York, N. Y. Taximeter. No. 1,160,137; Nov. 16; Gaz. vol. 220; p. 693.
- Browne, John D., Springfield, Mass. Mail-box-elevating apparatus. No. 1,148,951; Aug. 3; Gaz. vol. 217; p. 165.
- Browne, Paul E., Delphi, Ind. Headlight for automobiles. No. 1,128,752; Feb. 16; Gaz. vol. 211; p. 818.
- Browne, Ralph C., Salem, assignor of one-half to J. C. Sherman, Brookline, and one-half to Browne Apparatus Company, Boston, Mass. Method of and apparatus for elevating fluids by elastic-fluid pressure. No. 1,154,745; Sept. 28; Gaz. vol. 218; p. 934.
- Browne, Richard H., Muskegon, Mich. Knockdown desk. No. 1,135,975; Apr. 13; Gaz. vol. 213; p. 712.
- Browne, Sidney H., Pittsburgh, Pa., assignor to American Telephone and Telegraph Company. Telephone-exchange system. No. 1,125,954; Jan. 26; Gaz. vol. 210; p. 1083.
- Browne, Sidney H., Short Hills, N. J., assignor to American Telephone and Telegraph Company. Telephone-exchange system. (Reissue.) No. 13,891; Mar. 16; Gaz. vol. 212; p. 1021.
- Browne, Willis Q., Boston, Mass. Electrically-lighted pencil. No. 1,155,208; Sept. 28; Gaz. vol. 218; p. 1013.
- Brownell, Cyril G., Umatilla, Oreg. Rake control for buck-rakes. No. 1,162,129; Nov. 30; Gaz. vol. 220; p. 1488.
- Brownell, George W., St. Albans, Vt. Automatic train-stopping mechanism. No. 1,140,109; May 18; Gaz. vol. 214; p. 915.
- Brownfield, T. J., et al. (See Bevington, Thomas, assignor.)
- Browning, Amy F., Devon, Pa., now by marriage A. F. B. Rothe, Pattern. No. 1,158,976; Nov. 2; Gaz. vol. 220; p. 196.
- Browning, Esther S., Keefeton, Okla. Telephone-exchange system. No. 1,129,951; Mar. 2; Gaz. vol. 212; p. 41.
- Browning, George, assignor to Perfection Razor Strop Company, Chicago, Ill. Stropping-machine. No. 1,142,076; June 8; Gaz. vol. 215; p. 385.
- Browning, John M., Ogden, Utah. Firearm. No. 1,143,170; June 15; Gaz. vol. 215; p. 807.
- Browning, Lewis M., Belmont, N. Y. Self-adjusting bearing for pitmen. No. 1,151,339; Aug. 24; Gaz. vol. 217; p. 1227.
- Browning, Thomas. (See Wofe and Browning.)
- Browning, Thomas H., Philadelphia, Pa. Man's and boy's drawers. No. 1,134,102; Apr. 6; Gaz. vol. 213; p. 7.
- Browning, Tillie J., Philadelphia, Pa. Cleaning appliance. No. 1,154,369; Sept. 21; Gaz. vol. 218; p. 779.
- Browning, William H., et al. (See Riggins, Albert B., assignor.)
- Browning, Woodson, Oklahoma, Okla. Corn-planter. No. 1,157,501; Oct. 19; Gaz. vol. 219; p. 817.
- Brownjohn, Benjamin J., Sydney, New South Wales, Australia. Casement-hinge. No. 1,141,171; June 1; Gaz. vol. 215; p. 29.

Alphabetical list of patentees—Continued.

- Brownlee, Dalmar T. (See Spacke, Brownlee, and Spacke.)
- Brownlee, Dalmar T., assignor to The F. W. Spacke Machine Company, Indianapolis, Ind. Geared-up starter. No. 1,156,863; Oct. 12; Gaz. vol. 219; p. 562.
- Brownlee, Dalmar T., F. W. Spacke, and J. D. Lowe, assignors to The F. W. Spacke Machine Company, Indianapolis, Ind. Compression-space annex for internal-combustion engines. No. 1,134,967; Apr. 6; Gaz. vol. 213; p. 315.
- Brownlee, Joseph P., Evanston, Ill., assignor to The Studebaker Corporation, South Bend, Ind. Horse-drawn vehicle. No. 1,135,352; May 4; Gaz. vol. 214; p. 223.
- Brownlee, Roy H., and R. H. Uhlinger, assignors, by mesne assignments, to American Nitro-Products Company, Pittsburgh, Pa. Making nitrogen and carbon dioxide. No. 1,150,337; Aug. 17; Gaz. vol. 217; p. 826.
- Brownlee, Roy H., and R. H. Uhlinger, assignors, by mesne assignments, to American Nitro-Products Company, Pittsburgh, Pa. Making nitrogen and carbon dioxide. No. 1,154,171; Sept. 21; Gaz. vol. 218; p. 709.
- Brownlee, Roy H., and R. H. Uhlinger, assignors to American Nitro-Products Company, Pittsburgh, Pa. Making nitrogen and carbon dioxide. No. 1,154,172; Sept. 21; Gaz. vol. 218; p. 709.
- Brownrigg, John J. (See Lundquist and Brownrigg.)
- Brownrigg, John J., H. Henderson, and A. E. Case, assignors to Delta Electric Company, Marion, Ind. Portable electric lamp. No. 1,128,945; Feb. 16; Gaz. vol. 211; p. 888.
- Brownson, Earl L., assignor to J. F. Norris, Rochester, N. Y. Garbage-can-receptacle cover. No. 1,152,286; Aug. 31; Gaz. vol. 217; p. 1599.
- Brownstein, Morris, assignor to Edward Katzinger Company, Chicago, Ill. Garbage-can. No. 1,163,886; Dec. 14; Gaz. vol. 221; p. 448.
- Brozovich, Nicholas, Albion, Iowa. Rail-joint. No. 1,157,205; Oct. 19; Gaz. vol. 219; p. 712.
- Brozokat, Anna P. H., London, England. Combination thread-reel and needle-cushion. No. 1,146,473; July 13; Gaz. vol. 216; p. 547.
- Brubaker, Howard C., Sault Ste. Marie, Ontario, Canada. Life-saving device. No. 1,133,924; Mar. 30; Gaz. vol. 212; p. 1601.
- Brubaker, Andrew, Ashland, Ohio. Spring-wheel. No. 1,125,955; Jan. 26; Gaz. vol. 210; p. 1083.
- Brubaker, Erwin E., Kiskiminetas township, Armstrong county, Pa. Automatic lock-nut. No. 1,141,608; June 1; Gaz. vol. 215; p. 186.
- Brubaker, Lloyd H., San Francisco, Cal. Hose-coupling. No. 1,130,140; Mar. 2; Gaz. vol. 212; p. 103.
- Brubaker, Oliver E. J., and G. Motes, Rarden, Ohio. Mail-bag delivering and receiving device. No. 1,150,167; Aug. 17; Gaz. vol. 217; p. 767.
- Brucato, George. (See Goodman, Solomon A., assignor.)
- Bruce, Andrew G., Mead, Nebr. Antiskid attachment for tires. No. 1,138,189; May 4; Gaz. vol. 214; p. 164.
- Bruce, Avery C., assignor to Senn Pressed Steel Hoe and Tool Company, Birmingham, Ala. Hoe. No. 1,148,210; July 27; Gaz. vol. 216; p. 1201.
- Bruce, Howard, assignor to The Bartlett Hayward Company, Baltimore, Md. Manufacturing coal-gas. No. 1,144,977; June 29; Gaz. vol. 215; p. 1484.
- Bruce, John R., Wooster, Ohio. Side-car attachment for motor-cycles. No. 1,130,061; Mar. 2; Gaz. vol. 212; p. 77.
- Bruce, Wallace, Manton, Cal. Life-preserver. No. 1,131,113; Mar. 9; Gaz. vol. 212; p. 475.
- Bruce, William M., Jr., Springfield, Ohio. Telegraphy. No. 1,146,049; July 13; Gaz. vol. 216; p. 397.
- Bruce, William M., Jr., Urbana, Ohio, assignor, by mesne assignments, to Western Electric Company, New York, N. Y. Impulse-transmitter. No. 1,124,105; Jan. 5; Gaz. vol. 210; p. 308.
- Bruce, William M., Jr., assignor to The United Telegraph & Cable Company, Springfield, Ohio. Telegraph system. No. 1,145,229; July 6; Gaz. vol. 216; p. 89.
- Bruce, William M., Jr., assignor to The United Telegraph & Cable Company, Springfield, Ohio. Telegraphy. No. 1,146,234; July 13; Gaz. vol. 216; p. 461.
- Bruce, William M., Jr., assignor to The International Automatic Telephone Company, Springfield, Ohio. Switch for automatic telephone systems. No. 1,161,837; Nov. 30; Gaz. vol. 220; p. 1384.
- Bruce, William M., Jr., assignor to The International Automatic Telephone Company, Springfield, Ohio. Automatic telephony. No. 1,163,390; Dec. 7; Gaz. vol. 221; p. 229.
- Bruce, William N., Hollister, Cal. Pipe wrench and cutter. No. 1,165,649; Dec. 28; Gaz. vol. 221; p. 1144.
- Brucker, Ferdinand F., assignor to Miller Rubber Company, Akron, Ohio. Toy balloon. No. 1,136,932; Apr. 27; Gaz. vol. 213; p. 1128.
- Brucker, Ferdinand F., assignor to Miller Rubber Co., Akron, Ohio. Tool. No. 1,159,646; Nov. 9; Gaz. vol. 220; p. 465.
- Brucker, Francis, Lansing, Mich. Spring-hinge. No. 1,123,478; Jan. 5; Gaz. vol. 210; p. 96.
- Brucker, Francis, Lansing, Mich. Roofing. No. 1,153,152; Sept. 7; Gaz. vol. 218; p. 277.
- Bruckman, Frederick A., Portland, Oreg. Ice-cream-cone machine. No. 1,138,450; May 4; Gaz. vol. 214; p. 257.
- Bruckmann, Franz, Jr., and O. Dempewolf, Brunswick, Germany. Can-heading machine. No. 1,146,474; July 13; Gaz. vol. 216; p. 548.
- Bruckner, Albert, Etna, Pa. Imitation wall and tile construction. No. 1,147,704; July 27; Gaz. vol. 216; p. 1022.
- Brudick, Louis, Redburn, Pa. Toy boat. No. 1,150,168; Aug. 17; Gaz. vol. 217; p. 767.
- Bruebach, August, Chicago, Ill. Flask or guard. No. 1,141,929; June 8; Gaz. vol. 215; p. 333.
- Brueck, Theodor. (See Klein and Brueck.)
- Bruecker, John, Fort Wayne, Ind. Safety-razor. No. 1,159,647; Nov. 9; Gaz. vol. 220; p. 465.
- Bruederly, Joseph F. (See Bitting, Hervey S., assignor.)
- Bruehler, Henry J., Cleveland, Ohio. Stair-carpet fastener. No. 1,141,524; June 1; Gaz. vol. 215; p. 157.
- Bruen, Henry L., Brooklyn, N. Y. Breast-pump. No. 1,148,952; Aug. 3; Gaz. vol. 217; p. 165.
- Bruening, Henry, Chicago, Ill. Swimming appliance. No. 1,142,872; June 15; Gaz. vol. 215; p. 702.
- Bruet, Maurice A., and L. J. Duffer, Croghan, N. Y. Ice-cutting apparatus. No. 1,136,769; Apr. 20; Gaz. vol. 213; p. 1035.
- Bruffat, Bennet, Blue Mounds, Wis. Carrier-track. No. 1,164,779; Dec. 21; Gaz. vol. 221; p. 800.
- Bruggemann, Henry L., Seattle, Wash. Cover. No. 1,125,956; Jan. 26; Gaz. vol. 210; p. 1084.
- Brugger, Frederick R., Lake City, Iowa. Steam-engine governor. No. 1,132,068; Mar. 16; Gaz. vol. 212; p. 847.
- Brugger, Frederick R., Yetter, Iowa. Dust-collector mechanism for street-sweepers. No. 1,137,184; Apr. 27; Gaz. vol. 213; p. 1220.
- Brugman, Frank E., New York, N. Y. Fishing-tip. No. 1,142,796; June 15; Gaz. vol. 215; p. 675.
- Bruguiere, Faurie. (See Blardone, Nichols, and Bruguiere.)
- Bruhn, Daniel, Hammond, Ind. Coal-chute. No. 1,146,127; July 13; Gaz. vol. 216; p. 423.
- Bruhn, George C., Jr., Elm Grove, assignor of one-half to W. F. Bruhn, Wheeling, W. Va. Photographic-plate magazine. No. 1,166,353; Dec. 28; Gaz. vol. 221; p. 1394.
- Bruhn, William F. (See Bruhn, George C., Jr., assignor.)
- Brull, Eugene C., Chicago, Ill. Street and station annunciator. No. 1,148,572; Aug. 3; Gaz. vol. 217; p. 32.
- Brüll, Koloman, Pestszentlőrinc, Austria-Hungary. Electric control-gear for automatic grab-cranes. No. 1,134,370; Apr. 6; Gaz. vol. 213; p. 105.
- Brumback, Ernest M., Silver City, N. Mex. Countersinking screw-head. No. 1,151,861; Aug. 31; Gaz. vol. 217; p. 1455.
- Brumbaugh, Oliver, Louisville, Ohio. Roof structure for silos and the like. No. 1,147,207; July 20; Gaz. vol. 216; p. 822.
- Brumberg, Eli. (See Simpson, Clarence L., assignor.)
- Brumder, William C., Milwaukee, Wis. Voting-machine. No. 1,149,113; Aug. 3; Gaz. vol. 217; p. 219.
- Brumhoff, Edward, Cincinnati, Ohio. Vender's display-stand. No. 1,137,947; May 4; Gaz. vol. 214; p. 79.
- Brummett, Sinclair H., Scantons, Tex. Peanut-harvester. No. 1,140,569; May 25; Gaz. vol. 214; p. 1111.
- Brunckhorst, William A., Chicago, Ill. Tile roof and roofing-tile. No. 1,123,674; Jan. 5; Gaz. vol. 210; p. 163.
- Brundage, Charles D., Ottawa, Ill. Resilient wheel. No. 1,158,977; Nov. 2; Gaz. vol. 220; p. 197.
- Brune, Frederick, Milwaukee, Wis. Anchor-post for guy-ropes. No. 1,146,128; July 13; Gaz. vol. 216; p. 123.
- Brune, Heinrich, and H. Horst, Dortmund, assignors to Nasspress-Gesellschaft mit beschränkter Haftung, Wiesbaden, Germany. Drying raw peat and the like. No. 1,143,497; June 15; Gaz. vol. 215; p. 921.
- Brunell, Frank J., Chicago, assignor of one-half to F. Bain, La Grange, Ill. Machine for making paper palls. No. 1,153,193; Sept. 14; Gaz. vol. 218; p. 330.
- Brunelle, J. A. (See Belanger, Joseph N., assignor.)
- Brunelli, James. (See Wender and Brunelli.)
- Bruner, Martin R., Wapakoneta, Ohio. Traction device. No. 1,123,238; Jan. 5; Gaz. vol. 210; p. 12.
- Bruner, Meylert. (See Brogan, James A., assignor.)
- Bruner, Preston M., St. Louis, Mo. Laying concrete floors and the like. No. 1,127,957; Feb. 9; Gaz. vol. 211; p. 495.
- Brungess, Frank, Portland, Pa. Water-power. No. 1,155,881; Oct. 5; Gaz. vol. 219; p. 194.
- Brunhoff, Edward, Cincinnati, Ohio. Vender's display-stand. No. 1,141,687; June 1; Gaz. vol. 215; p. 214.
- Bruniquel, Michel, Paris, France. Increasing the energy of a fluid-motor in motor-driven torpedoes. No. 1,154,609; Sept. 28; Gaz. vol. 218; p. 888.
- Brunker, Joseph, and C. A. Mattmiller, Helena, Mont. Fluid-pressure-controlling valve. No. 1,153,759; Sept. 14; Gaz. vol. 218; p. 531.
- Brünn, Paul de, Düsseldorf, Germany. Manufacture of zeolites. No. 1,161,200; Nov. 23; Gaz. vol. 220; p. 1115.
- Brunnemer, William T. M., Racine, Wis., assignor to M. Rumely Company, Laporte, Ind. Tractor. No. 1,150,247; Aug. 17; Gaz. vol. 217; p. 796.
- Brunner, Wolfgang, Two Rivers, Wis. Ice-harvester. No. 1,145,670; July 6; Gaz. vol. 216; p. 242.

Alphabetical list of patentees—Continued.

- Bruns, John M., assignor to Waterloo Cement Machinery Corporation, Waterloo, Iowa. Actuating means for dumping concrete-mixers. No. 1,140,298; May 18; Gaz. vol. 214; p. 978.
- Brunstien, Samuel. (See Schmidt and Brunstien.)
- Brunswick-Balke-Collender Co. (See Hjort, Axel F., assignor.)
- Brunswick-Balke-Collender Company, The. (See Hobbs, Frank C., assignor.)
- Brunswick-Balke-Collender Company, The. (See Johnston, Robert T., assignor.)
- Brunswick-Balke-Collender Company of New York. (See McIntire, Jacob N., assignor.)
- Brunswick, Edouard, Paris, France. Mud-guard for vehicle-wheels. No. 1,161,288; Nov. 23; Gaz. vol. 220; p. 1147.
- Brunswick, Robert B., Philadelphia, Pa. Bottle-opener. No. 1,129,952; Mar. 2; Gaz. vol. 212; p. 41.
- Brunt, Wilson F., Hammond, Ind. Earth-handling machine. No. 1,134,254; Apr. 6; Gaz. vol. 213; p. 63.
- Brush, Alanson P. (See Nacker, Owen M., assignor.)
- Brush, Alanson P., Detroit, Mich. Carbureter. No. 1,130,474; Mar. 2; Gaz. vol. 212; p. 222.
- Brush, Alanson P., Detroit, Mich. Vehicle drive mechanism. No. 1,130,793; Mar. 9; Gaz. vol. 212; p. 366.
- Brush, Alanson P., Detroit, Mich. Dual ignition system. No. 1,139,255; May 11; Gaz. vol. 214; p. 577.
- Brush, Alanson P., Detroit, Mich. Clutch. No. 1,158,629; Nov. 2; Gaz. vol. 220; p. 78.
- Brush, Alanson P., Detroit, Mich. Rotary fluid-pump. No. 1,162,848; Dec. 7; Gaz. vol. 221; p. 41.
- Brush, Alanson P., Detroit, Mich. Underpan for motor-cars and other vehicles. No. 1,163,317; Dec. 7; Gaz. vol. 221; p. 204.
- Brush, Alanson P., Detroit, Mich. Automobile construction. No. 1,165,067; Dec. 21; Gaz. vol. 221; p. 900.
- Brush, Oscar B., Joliet, Ill. Electrically-energized heater. No. 1,124,849; Jan. 12; Gaz. vol. 210; p. 623.
- Brutus, Leo, Burlington, Iowa. Milk-bottle holder. No. 1,165,840; Dec. 28; Gaz. vol. 221; p. 1209.
- Bryan, Daniel B., deceased; M. B. Bryan, administratrix Lexington, Ky., assignor to The Patent Appliance Co., New York, N. Y. Sliding door. No. 1,163,065; Dec. 7; Gaz. vol. 221; p. 115.
- Bryan, Daniel R., Chatham, N. J. Apparatus for sorting heterogeneous material. No. 1,139,484; May 18; Gaz. vol. 214; p. 694.
- Bryan, Frank O., assignor of one-half to E. F. Wetzel, Utica, N. Y. Garment. No. 1,145,467; July 6; Gaz. vol. 216; p. 173.
- Bryan, James A. (See Gaskill, Elijah T., assignor.)
- Bryan, Lindley N., Anoka, Minn. Bubbling fountain. No. 1,158,104; Oct. 26; Gaz. vol. 219; p. 1090.
- Bryan, Louis A., et al. (See Bryan, Pulaski J., assignor.)
- Bryan, Mary B., administratrix. (See Bryan, Daniel B.)
- Bryan, Pulaski J., Chicago, Ill., assignor of one-third to E. W. Rusk, Callaway, Nebr., one-third to L. A. Bryan, Gary, Ind., and one-third to G. N. Harris, Adrian, Mich. Meat-cutting machine. No. 1,130,664; Mar. 2; Gaz. vol. 212; p. 288.
- Bryan, William D. (See Dunlap and Bryan.)
- Bryant, Albert D., Palmerton, Pa., assignor to New Jersey Zinc Company, New York, N. Y. Bag-shaking apparatus. No. 1,163,318; Dec. 7; Gaz. vol. 221; p. 204.
- Bryant, Asa T., Lawrence, Mass. Drying-machine. No. 1,154,500; Sept. 21; Gaz. vol. 218; p. 842.
- Bryant, Clarence R., assignor to R. W. Colglazier, Fort Worth, Tex. Packing-ring for piston-rods. No. 1,152,002; Aug. 31; Gaz. vol. 217; p. 1501.
- Bryant, Dalton W., Carbondale, Pa. Phonograph-record reproducer. No. 1,126,382; Jan. 26; Gaz. vol. 210; p. 1239.
- Bryant, Earl C. (See Ortwig and Bryant.)
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Bryant Electric Company, The. (See Thomas, George B., assignor.)
- Bryant Electric Company, The. (See Tobin, Thomas J., assignor.)
- Bryant Electric Company, The. (See Wagner, Charles, assignor.)
- Bryant, Elmer J., assignor to The Taft Peirce Manufacturing Company, Woonsocket, R. I. Boring-tool holder. No. 1,153,673; Sept. 14; Gaz. vol. 218; p. 501.
- Bryant, Emmous, et al. (See Downey and Wood, assignors.)
- Bryant, Fredrick S., Reading, Mass. Tire. No. 1,139,338; May 11; Gaz. vol. 214; p. 605.
- Bryant, Henry E., assignor to American Patent Manufacturing Company, Jacksonville, Fla. Turpentine-distilling apparatus. No. 1,130,743; Mar. 9; Gaz. vol. 212; p. 349.
- Bryant, Jesse M., Ararat, N. C. Corn-planter and fertilizer-distributor. No. 1,135,433; Apr. 13; Gaz. vol. 213; p. 522.
- Bryant, John M. C., Binghamton, N. Y., assignor of one-fourth to J. A. Still, Bradford, Pa., and one-fourth to J. L. Henry, Rochester, N. Y. Aeroplane. No. 1,123,479; Jan. 5; Gaz. vol. 210; p. 96.
- Bryant, Richard S., assignor to The Standard Welding Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,125,055; Jan. 19; Gaz. vol. 210; p. 731.
- Bryant, Richard S., assignor to The Standard Welding Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,125,456; Jan. 19; Gaz. vol. 210; p. 875.
- Bryant, Richard S., assignor to The Standard Welding Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,153,481; Sept. 14; Gaz. vol. 218; p. 434.
- Bryant, Richard S., assignor to The Standard Welding Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,153,482; Sept. 14; Gaz. vol. 218; p. 435.
- Bryant, Richard S., assignor to The Standard Welding Company, Cleveland, Ohio. Vehicle-wheel. No. 1,160,254; Nov. 16; Gaz. vol. 220; p. 734.
- Bryant, Richard S., assignor to The Standard Welding Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,162,563; Nov. 30; Gaz. vol. 220; p. 1635.
- Bryant, Richard S., assignor to The Standard Welding Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,163,736; Dec. 14; Gaz. vol. 221; p. 396.
- Bryant, Robert F., Los Angeles, Cal. Balancing attachment for motor-cycles. No. 1,154,089; Sept. 21; Gaz. vol. 218; p. 681.
- Bryant, Roy B., Little Rock, Ark. Railway signal system. No. 1,130,706; Mar. 9; Gaz. vol. 212; p. 336.
- Bryant, Solomon L., Mount Airy, N. C. Plant-setting machine. No. 1,154,173; Sept. 21; Gaz. vol. 218; p. 710.
- Bryant, Stanley C., assignor to Bryant Zinc Company, Chicago, Ill. Electric motor. No. 1,150,169; Aug. 17; Gaz. vol. 217; p. 767.
- Bryant Zinc Company. (See Bryant, Stanley C., assignor.)
- Bryar, George, Boston, assignor to J. R. Green, Somerville, Mass. Slotting-machine. No. 1,127,180; Feb. 2; Gaz. vol. 211; p. 182.
- Bryce, Henry, Cohoes, N. Y. Wing-collar. No. 1,152,483; Sept. 7; Gaz. vol. 218; p. 37.
- Bryce, James W. (See Goss and Bryce.)
- Bryce, James W., Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y. Removable card for use in time-recorders. No. 1,146,998; July 20; Gaz. vol. 216; p. 749.
- Bryce, Walter S. (See Garlick, James D., assignor.)
- Bryce, William D., Saltillo, Tex. Pillers. No. 1,155,882; Oct. 5; Gaz. vol. 219; p. 194.
- Bryen, George J., Duquesne, Pa. Laminary valve. No. 1,145,113; July 6; Gaz. vol. 216; p. 50.
- Bryen, George J., Duquesne, Pa. Making valves. No. 1,145,114; July 6; Gaz. vol. 216; p. 50.
- Bryk, Ernst. (See Schmidt, Thies, and Bryk.)
- Bryla, Frank, Westfield, Mass. Potato-digger. No. 1,143,886; June 22; Gaz. vol. 215; p. 1079.
- Brylawski, Abram J., Washington, D. C. Score-board. No. 1,149,021; Aug. 3; Gaz. vol. 217; p. 190.
- Brylinski, Mirosław, Brussels, Belgium. Hydrocarbon-vapor lamp. No. 1,154,090; Sept. 21; Gaz. vol. 218; p. 632.
- Bryner, Adolf, Brooklyn, assignor to Conley Foil Company, New York, N. Y. Metal-foil envelop or container. No. 1,143,609; June 22; Gaz. vol. 215; p. 985.
- Bryning, Percy L., Boston, assignor to Parker Wire Goods Company, Worcester, Mass. Sectional fence. No. 1,142,233; June 8; Gaz. vol. 215; p. 440.
- Bryson, Boyd. (See Roberts, Brewster, and Bryson.)
- Bryson, Charles R., Pittsburgh, Pa. Metal-forming press. No. 1,130,254; Mar. 2; Gaz. vol. 212; p. 143.
- Bryson, James, Vancouver, British Columbia, Canada. Oil-lamp. No. 1,142,234; June 8; Gaz. vol. 215; p. 441.
- Bryson, James R., Xenia, Ohio. Breeding-pen. No. 1,130,062; Mar. 2; Gaz. vol. 212; p. 77.
- Bryson, John M. (See McConnell, Charles D., assignor.)
- Bryson, Kenneth D., New York, N. Y. Collapsible tube. No. 1,123,989; Jan. 5; Gaz. vol. 210; p. 268.
- Bryson, Samuel L., Battle Creek, Colo. Tongue-support for vehicles. No. 1,123,239; Jan. 5; Gaz. vol. 210; p. 13.
- Bryson, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Works. Closure for centrifugal machines. No. 1,160,373; Nov. 16; Gaz. vol. 220; p. 774.
- Bryson, W. B., et al. (See Miller, Benjamin D., assignor.)
- Brzozowski, Boleslaw, Erie, Pa. Crib. No. 1,132,432; Mar. 16; Gaz. vol. 212; p. 980.
- Bubar, Dean B., Roseburg, Ore. Magazine-rifle. No. 1,140,245; May 18; Gaz. vol. 214; p. 961.
- Bubb, Elmer F., Chicago, Ill. Transmission-cone-gearing apparatus. No. 1,156,883; Oct. 19; Gaz. vol. 219; p. 597.
- Bubb, Peter F., Leavenworth, Kans. Centrifugal clothes-wringer. No. 1,145,291; July 6; Gaz. vol. 216; p. 110.
- Bubel, George H., Cleveland, Ohio. Engine-starting device. No. 1,123,240; Jan. 5; Gaz. vol. 210; p. 13.
- Bubenheim, Louis E., Pittsburgh, Pa. Sash-lock. No. 1,147,604; July 20; Gaz. vol. 216; p. 960.
- Bubler, Howard F., Lynn, Mass., assignor to The Singer Manufacturing Company. Buttonhole-fly for shoes. No. 1,158,368; Oct. 26; Gaz. vol. 219; p. 1182.
- Bublinger, Albert, Concord Junction, Mass. Friction-clutch pulley. No. 1,151,759; Aug. 31; Gaz. vol. 217; p. 1417.
- Bublitz, G. H., et al. (See Pohlman, Frank W., assignor.)
- Bucci, Antonio. (See Santarsiero, Antonio V., assignor.)

Alphabetical list of patentees—Continued.

- Buch, Adam J., Portsmouth, Ohio, assignor, by mesne assignments, to Savoday Rack Company, St. Louis, Mo. Device for forming box-toes on shoes. No. 1,157,481; Oct. 19; Gaz. vol. 219; p. 810.
- Buch, Max A., Detroit, Mich. Automobile-door. No. 1,158,438; Nov. 2; Gaz. vol. 220; p. 9.
- Buch, Newton W., New Castle, assignor to Safety Armored Conduit Company, Pittsburgh, Pa. Apparatus for galvanizing. No. 1,141,930; June 8; Gaz. vol. 215; p. 333.
- Buch, Newton W., New Castle, assignor to Safety Armored Conduit Company, Pittsburgh, Pa. Galvanizing. No. 1,141,931; June 8; Gaz. vol. 215; p. 333.
- Buch, Paul H., assignor of one-half to E. McCarthy, Chicago, Ill. Line-stretcher. No. 1,130,063; Mar. 2; Gaz. vol. 212; p. 77.
- Buchak, Andrew. (See Gruzecki, Frank, assignor.)
- Buchanan, Albert E., and H. Gaffney, assignors to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Disk harrow. No. 1,162,332; Nov. 30; Gaz. vol. 220; p. 1557.
- Buchanan, Alexander W., Colorado Springs, Colo. Floor-cleaner. No. 1,130,064; Mar. 2; Gaz. vol. 212; p. 78.
- Buchanan, Alexandria J. (See Poulson and Buchanan.)
- Buchanan, Charles G., New York, N. Y. Keying means for crushing-rolls. No. 1,149,626; Aug. 10; Gaz. vol. 217; p. 512.
- Buchanan, Clinton C., assignor of one-third to J. J. Boynton and one-third to S. G. Wilson, Bartow, Fla. Index of land-titles and other records. No. 1,128,100; Feb. 9; Gaz. vol. 211; p. 544.
- Buchanan, Clinton C., assignor of one-third to J. J. Boynton and one-third to S. G. Wilson, Bartow, Fla. Plotter. No. 1,142,077; June 8; Gaz. vol. 215; p. 385.
- Buchanan, David E., Dublin, Tex. Folding grain-harvester reel. No. 1,136,403; Apr. 20; Gaz. vol. 213; p. 906.
- Buchanan, Duncan J., Windsor, Ontario, Canada. Gun-sight. No. 1,160,374; Nov. 16; Gaz. vol. 220; p. 775.
- Buchanan Electric Steel Company *et al.* (See Burrows and Ross, assignors.)
- Buchanan, Frank, Syracuse, N. Y. Headlight. No. 1,136,404; Apr. 20; Gaz. vol. 213; p. 906.
- Buchanan, Frank, Syracuse, N. Y. Headlight. No. 1,150,170; Aug. 17; Gaz. vol. 217; p. 768.
- Buchanan, Frank, Syracuse, N. Y. Incandescent-electric-lamp fixture. No. 1,162,974; Dec. 7; Gaz. vol. 221; p. 84.
- Buchanan, Frank, Dayton, Ohio. Headlight. No. 1,143,806; June 22; Gaz. vol. 215; p. 1051.
- Buchanan, Frank P., Lawrenceburg, Tenn. Fifth-wheel. No. 1,146,235; July 13; Gaz. vol. 216; p. 461.
- Buchanan, George T., Highland Park, Mich. Signal device for toll-collecting apparatus. No. 1,143,356; June 15; Gaz. vol. 215; p. 873.
- Buchanan, George T., Highland Park, Mich. Coin-separator for toll-collecting apparatus. No. 1,143,357; June 15; Gaz. vol. 215; p. 873.
- Buchanan, George T., Highland Park, Mich. Telegraph transmitting instrument. No. 1,152,287; Aug. 31; Gaz. vol. 217; p. 1599.
- Buchanan, James B., Seattle, Wash. Wax-carver. No. 1,129,634; Feb. 23; Gaz. vol. 211; p. 1165.
- Buchanan, James G., Cananea, Mexico, assignor to H. A. Hatfield, Forest Grove, Oreg. Valve mechanism. No. 1,141,376; June 1; Gaz. vol. 215; p. 103.
- Buchanan, John J., and J. Maltby, assignors to Waterbury Buckle Co., Waterbury, Conn. Friction-buckle. No. 1,165,939; Dec. 28; Gaz. vol. 221; p. 1244.
- Buchanan, John P., Cleveland, Ohio, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,140,495; May 25; Gaz. vol. 214; p. 1086.
- Buchanan, John P., and F. B. Wiegand, Cleveland, Ohio. Signal system. No. 1,150,494; Aug. 17; Gaz. vol. 217; p. 880.
- Buchanan, Leonard B., Woburn, Mass. Railway-car. No. 1,125,056; Jan. 19; Gaz. vol. 210; p. 731.
- Buchanan, Monty J., Lynn, Mass. Moistener. No. 1,123,675; Jan. 5; Gaz. vol. 210; p. 163.
- Buchanan, Mose R. (See Pennewill and Buchanan.)
- Bucher, John E., Coventry, assignor to Nitrogen Products Company, Providence, R. I. Fixing atmospheric nitrogen. No. 1,138,190; May 4; Gaz. vol. 214; p. 165.
- Bucher, John E., Coventry, assignor to Nitrogen Products Company, Providence, R. I. Producing ammonia and the like. No. 1,138,191; May 4; Gaz. vol. 214; p. 165.
- Bucher, Teodoro, Pegli, Italy. Plate-holder. No. 1,128,286; Feb. 16; Gaz. vol. 211; p. 659.
- Buchholz, Charles, Cleveland, Ohio. Weigher. No. 1,137,836; May 4; Gaz. vol. 214; p. 40.
- Büchi, Alfred, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Marine-engine installation. No. 1,138,077; May 4; Gaz. vol. 214; p. 125.
- Büchi, Alfred, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Combustion-engine. No. 1,142,873; June 15; Gaz. vol. 215; p. 702.
- Büchi, Alfred, Winterthur, assignor of one-fifth to W. Honegger and one-fifth to H. Honegger, Wetzikon, Switzerland. Turbine-pump, turbine-blower, and propeller. No. 1,158,978; Nov. 2; Gaz. vol. 220; p. 197.
- Buchignani, Angelo. (See Ghinelli and Buchignani.)
- Buchli, Jacob, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Driving mechanism of vehicles. No. 1,141,764; June 1; Gaz. vol. 215; p. 238.
- Buchner, Georg, Munich, Germany. Means for softening water. No. 1,162,024; Nov. 30; Gaz. vol. 220; p. 1450.
- Buchner, Hans, Munich, Germany. Boot and shoe tree. No. 1,130,707; Mar. 9; Gaz. vol. 212; p. 337.
- Buchner, Max, Heidelberg, Germany. Producing pure alumina from clay and other alumina-bearing materials. No. 1,162,130; Nov. 30; Gaz. vol. 220; p. 1488.
- Buchner, Max, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Chlorinating. No. 1,129,165; Feb. 23; Gaz. vol. 211; p. 1000.
- Buchner, Max, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Material for coating and impregnating purposes. No. 1,165,222; Dec. 21; Gaz. vol. 221; p. 957.
- Bucholtz, August, Delmenhorst, Germany. Apparatus for manufacturing striped linoleum on a calender. No. 1,149,895; Aug. 10; Gaz. vol. 217; p. 607.
- Buchrim, Max, Chicago, Ill. Coin or token holder. No. 1,160,255; Nov. 16; Gaz. vol. 220; p. 734.
- Buchtel, William D., assignor of one-half to W. E. Paxton, Paxton, Nebr. Shoe-lace fastener. No. 1,138,535; May 4; Gaz. vol. 214; p. 284.
- Buchwald, Henry C., Baltimore, Md. Tender coal-loading apparatus. No. 1,157,366; Oct. 19; Gaz. vol. 219; p. 770.
- Buchy, Henri. (See Lera, Ramón, assignor.)
- Buck, David W., Rhodes, Iowa. Barrel-sling. No. 1,145,292; July 6; Gaz. vol. 216; p. 110.
- Buck, Frank S., assignor to Gilman & Son, Inc., Springfield, Vt. Machine for turning irregular forms. No. 1,137,117; Apr. 27; Gaz. vol. 213; p. 1196.
- Buck, Herman J., assignor to Mathews Gravity Carrier Company, Ellwood City, Pa. Elevator. No. 1,140,110; May 18; Gaz. vol. 214; p. 915.
- Buck, John, Lincoln, England. Machine for cutting miter and bevel gear-wheels. No. 1,143,498; June 15; Gaz. vol. 215; p. 921.
- Buck, John, Lincoln, England. Operating mechanism for gear-cutting machines. No. 1,163,503; Dec. 7; Gaz. vol. 221; p. 268.
- Buck, Vertrude P., assignor to Shawmut Machinery Company, Boston, Mass. Seam-rubbing machine. No. 1,146,761; July 13; Gaz. vol. 216; p. 645.
- Buck, William C., Lethbridge, Alberta, Canada. Combination nut-lock and washer. No. 1,142,018; June 8; Gaz. vol. 215; p. 365.
- Büchel, Carl, Frankfurt-on-the-Main, Germany. Manufacture of emulsions and substances for use therein. No. 1,143,499; June 15; Gaz. vol. 215; p. 921.
- Buckelew, Albert H., assignor of one-half to D. T. Abercrombie, Newark, N. J. Radiator-valve. No. 1,123,480; Jan. 5; Gaz. vol. 210; p. 97.
- Buckeye Engine Company, The. (See Cope, Edge T., assignor.)
- Buckeye Products Company, The. (See Warman, Ora J., assignor.)
- Buckeye Steel Castings Company, The. (See Bush, Samuel P., assignor.)
- Buckeye Steel Castings Company, The. (See Johnson, George T., assignor.)
- Buckeye Steel Castings Company, The. (See Johnson and Murphy, assignors.)
- Buckeye Steel Castings Company, The. (See Whitridge, John C., assignor.)
- Buckeye Steel Castings Company, The. (See Whitridge and Johnson, assignors.)
- Buckeye Traction Ditcher Company, The. (See Krupp, Leo A., assignor.)
- Buckham, George T. (See Dawson and Buckham.)
- Buckham, George T. (See Vickers and Buckham.)
- Buckie, John F., Chicago, Ill. Noiseless stamping-pad. No. 1,131,904; Mar. 16; Gaz. vol. 212; p. 787.
- Buckingham, Edward J., Brixton Oval, London, England. Vehicle wheel-guard. No. 1,143,035; June 15; Gaz. vol. 215; p. 759.
- Buckingham, Roswell H., East Moline, assignor to J. E. Porter Company, Ottawa, Ill. Cattle-stanchion. No. 1,134,255; Apr. 6; Gaz. vol. 213; p. 63.
- Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Journal-box. No. 1,145,347; July 6; Gaz. vol. 216; p. 128.
- Buckland, Joseph W., Montreal, Quebec, Canada. Universal power-transmission joint. No. 1,127,352; Feb. 2; Gaz. vol. 211; p. 239.
- Buckles, Enoch, *et al.* (See Martin, Commodore V., assignor.)
- Buckley Automatic Flagpole Company. (See Buckley, John J., assignor.)
- Buckley, Duer H., Vienna, Ohio, assignor of one-half to J. E. Searles, Chicago, Ill. Steering device for automobiles. No. 1,139,453; May 11; Gaz. vol. 214; p. 646.

Alphabetical list of patentees—Continued.

- Buckley, Duer H., assignor to A. F. Gall and A. Campbell, Vienna, Ohio. Automatic bottle-locker. No. 1,129,068; Feb. 23; Gaz. vol. 211; p. 966.
- Buckley, Georgiana A., Montrose, Colo. Double-spring adjustable curtain-rod. No. 1,140,570; May 25; Gaz. vol. 214; p. 1111.
- Buckley, Georgiana A., Montrose, Colo. Pin-ticket. No. 1,148,659; Aug. 3; Gaz. vol. 217; p. 63.
- Buckley, John, assignor to A. Sommer, Boston, Mass. Control mechanism for electric motors. No. 1,136,405; Apr. 20; Gaz. vol. 213; p. 906.
- Buckley, John J., Lynn, Mass., assignor to Buckley Automatic Flagpole Company. Non-tangling device for flags. No. 1,151,658; Aug. 31; Gaz. vol. 217; p. 1382.
- Buckley, John P., Washington, D. C. Machine for counting paper money. No. 1,159,826; Nov. 9; Gaz. vol. 220; p. 531.
- Buckley, Michael, assignor of one-half to H. A. Fritz, Minneapolis, Minn. Closet tank-valve. No. 1,149,722; Aug. 10; Gaz. vol. 217; p. 545.
- Buckley, Robert C., Peoria, Ill. Fertilized grain and making same. No. 1,125,457; Jan. 19; Gaz. vol. 210; p. 875.
- Buckley, Thomas J., New Brunswick, N. J. Machine for printing tubes. No. 1,128,753; Feb. 16; Gaz. vol. 211; p. 818.
- Buckley, William, Chicago, Ill. Fluid-pressure-operated ejector. No. 1,127,726; Feb. 9; Gaz. vol. 211; p. 412.
- Buckley, William, Ashland, Wis. Means for preventing incrustation of boilers. No. 1,133,092; Mar. 23; Gaz. vol. 212; p. 1270.
- Buckley, William M., Winnipeg, Manitoba, Canada. Garment. No. 1,131,674; Mar. 16; Gaz. vol. 212; p. 705.
- Buckman, Frank. (See Moss, William T., assignor.)
- Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,133,533; Mar. 30; Gaz. vol. 212; p. 1463.
- Bucknam, Fredrick A., Auburn, N. Y., assignor to International Harvester Company of New Jersey. Disk gang for use in harrows and similar tillage implements. No. 1,157,080; Oct. 19; Gaz. vol. 219; p. 668.
- Bucknum, Pearl D., Oklahoma, Okla. Electric switch. No. 1,126,951; Feb. 2; Gaz. vol. 211; p. 100.
- Buckwalter, Charles E., *et al.* (See Jones, Jefferson D., assignor.)
- Buckwalter, Tracy V., Altoona, Pa. Braking mechanism. No. 1,135,097; Apr. 13; Gaz. vol. 213; p. 406.
- Buckwalter, Tracy V., Altoona, Pa. Warehouse-truck. No. 1,155,336; Oct. 5; Gaz. vol. 219; p. 4.
- Buckwalter, Tracy V., Altoona, Pa. Tractor-engine. No. 1,161,922; Nov. 30; Gaz. vol. 220; p. 1414.
- Bucky, Gustav, assignor to Siemens & Halske, A. G., Berlin, Germany. Method of and apparatus for projecting X-ray images. No. 1,164,987; Dec. 21; Gaz. vol. 221; p. 874.
- Bucyrus Company. (See Ferris, Walter, assignor.)
- Bucyrus Company. (See Roys, Lawrence, assignor.)
- Bucyrus Company. (See Stark, William O., assignor.)
- Budaji, Frank S., New York, N. Y. Clothes-line support. No. 1,157,502; Oct. 19; Gaz. vol. 219; p. 817.
- Budd, Alice K., deceased, Denver, Colo.; E. W. Budd, San Francisco, Cal., administrator. Clothes-hook. No. 1,149,723; Aug. 10; Gaz. vol. 217; p. 545.
- Budd, Allen, *et al.* (See Machamer, Isaac A., assignor.)
- Budd, Andrew, *et al.* (See Machamer, Isaac A., assignor.)
- Budd, Edward G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Seating. No. 1,159,356; Nov. 9; Gaz. vol. 220; p. 361.
- Budd, Edward G., and J. Ledwinka, assignors to Hale and Kilburn Company, Philadelphia, Pa. Wheel. No. 1,137,458; Apr. 27; Gaz. vol. 213; p. 1320.
- Budd, Edward W., administrator. (See Budd, Alice K.)
- Budd, Henry A. (See Sullivan, Joseph F., assignor.)
- Budd, Richard, *et al.* (See Machamer, Isaac A., assignor.)
- Buddle, George T., Chicago, Ill. Combined table lock and opener. No. 1,156,460; Oct. 12; Gaz. vol. 219; p. 421.
- Buddle, George T., Chicago, Ill. Combined table lock and opener. No. 1,156,461; Oct. 12; Gaz. vol. 219; p. 421.
- Budenbach, William F. (See Hazen and Budenbach.)
- Budge, Oliver H., Logan, Utah. Buckle. No. 1,127,727; Feb. 9; Gaz. vol. 211; p. 412.
- Budge, Thomas F., Malad City, Idaho. Steam-generator feed apparatus and appertaining mechanism. No. 1,148,075; July 27; Gaz. vol. 216; p. 1153.
- Budke, Edward W. (See Hamilton and Nyhagen, assignors.)
- Budroe, Charles F., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Fork for bicycles and the like. No. 1,144,753; June 29; Gaz. vol. 215; p. 1408.
- Budrowski, Henry A. (See Melink, Walter J., assignor.)
- Buechner, Theodore E., Philadelphia, Pa. Non-refillable bottle. No. 1,129,069; Feb. 23; Gaz. vol. 211; p. 966.
- Buell, John L., Chicago, Ill. Collapsible or interchangeable case. No. 1,141,865; June 1; Gaz. vol. 215; p. 271.
- Buehle, Erich, New York, N. Y., assignor to The Pelton Water Wheel Co., Inc., San Francisco, Cal. Pressure-turbine. No. 1,137,948; May 4; Gaz. vol. 214; p. 79.
- Buell, Daniel H. (See Mueller and Buell.)
- Buell, Edgar, Clinton, Conn. Pruning-shears. No. 1,137,380; Apr. 27; Gaz. vol. 213; p. 1293.
- Buell, William H., New Haven, assignor, by mesne assignments, to Union Metallic Cartridge Company, Bridgeport, Conn. Ammunition. No. 1,156,857; Oct. 12; Gaz. vol. 219; p. 560.
- Buente, Charles F., assignor to Concrete Products Company of Pittsburgh, Pittsburgh, Pa. Reinforced-concrete road-guard. No. 1,162,282; Nov. 30; Gaz. vol. 220; p. 1540.
- Buerger, Charles B., assignor of one-half to S. Lippstadt, New York, N. Y. Roll of paper towels or the like and making the same. No. 1,141,229; June 1; Gaz. vol. 215; p. 49.
- Buerger, Joseph J. (See Buerger, Theodor J., assignor.)
- Buerger, Theodor J., assignor of one-fourth to J. J. Buerger, Minneapolis, Minn. Collar-spacer. No. 1,137,571; Apr. 27; Gaz. vol. 213; p. 1358.
- Buermann, George, assignor to August Buermann Manufacturing Company, Newark, N. J. Spur. No. 1,135,991; Apr. 20; Gaz. vol. 213; p. 759.
- Buescher, Julius G., Warrenton, Mo. Farm-wagon attachment. No. 1,162,564; Nov. 30; Gaz. vol. 220; p. 1636.
- Buettner, Charles H., Cincinnati, Ohio. Ink-mixing mechanism for printing-presses. No. 1,142,019; June 8; Gaz. vol. 215; p. 365.
- Buff, Emil. (See Soule, Edward, assignor.)
- Buff, Max. (See Flachslaender, Gralert, and Buff.)
- Buff, Max. (See Gralert, Buff, and Flachslaender.)
- Buffalo Forge Company. (See Carrier, Willis H., assignor.)
- Buffalo Forge Company. (See Carrier and Comfort, assignors. (Reissue.)
- Buffalo Foundry & Machine Company. (See Sleeper, Oliver S., assignor.)
- Buffalo Lounge Company. (See Jacobs, Henry J., assignor.)
- Buffalo Pitts Company. (See Todd, Marquis J., assignor.)
- Buffalow, Drury S., assignor of one-third to J. B. Grots and one-third to W. R. Finney, Pondecreek, Okla. Shovel for cultivators. No. 1,124,106; Jan. 5; Gaz. vol. 210; p. 308.
- Buffat, Edward F., Knoxville, Tenn. Water-car. No. 1,162,565; Nov. 30; Gaz. vol. 220; p. 1636.
- Buffenbarger, Sanford, Titusville, Pa. Pickling-weight. No. 1,136,772; Apr. 20; Gaz. vol. 213; p. 1035.
- Buffington, Roscoe P., Baltimore, Md. Bottle-seal. No. 1,160,571; Nov. 16; Gaz. vol. 220; p. 845.
- Buffum, Frank W. (See McCawley and Phillips, assignors.)
- Buffum, Frank W., Louisiana, Mo. Stencil-writing attachment for type-writing machines. No. 1,141,525; June 1; Gaz. vol. 215; p. 157.
- Buffum, Frank W., and M. A. Culling, assignors to Buffum Tool Company, Louisiana, Mo. Card attachment for type-writing machines. No. 1,146,129; July 13; Gaz. vol. 216; p. 424.
- Buffum, Herbert H., The Weirs, N. H. Spring structure. No. 1,158,026; Oct. 26; Gaz. vol. 219; p. 1062.
- Buffum, Herbert H., The Weirs, N. H. Drive mechanism. No. 1,158,027; Oct. 26; Gaz. vol. 219; p. 1063.
- Buffum Tool Company. (See Buffum and Culling, assignors.)
- Buffum Tool Company. (See Phillips, William W., assignor.)
- Bugarszky, István, assignor of one-third to L. Torok, Budapest, and one-third to Dr. Kereszty, Dr. Wolf és Tsa Vegyszeti Gyár, Rt. Ujpest, Austria-Hungary. Manufacture of a light-colored tar colloid having curative properties. No. 1,160,992; Nov. 16; Gaz. vol. 220; p. 996.
- Bugatti, Ettore, Molsheim, Germany. Cam-shaft drive. No. 1,124,107; Jan. 5; Gaz. vol. 210; p. 308.
- Bugatti, Ettore, Molsheim, Germany. Shock-absorber. No. 1,133,093; Mar. 23; Gaz. vol. 212; p. 1271.
- Bugatti, Ettore, Molsheim, Germany. Connection of axle parts. No. 1,140,496; May 25; Gaz. vol. 214; p. 1086.
- Bugatti, Ettore, Molsheim, Germany. Means for journaling the motor-shaft in self-propelled vehicles. No. 1,143,887; June 22; Gaz. vol. 215; p. 1079.
- Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Forming ophthalmic lenses. No. 1,153,859; Sept. 14; Gaz. vol. 218; p. 568.
- Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Goggles. No. 1,156,389; Oct. 12; Gaz. vol. 219; p. 396.
- Bugbee & Niles Co. (See King, Rufus, assignor.)
- Bugele, Hudson H., St. Louis, Mo. Baby-crib. No. 1,138,451; May 4; Gaz. vol. 214; p. 257.
- Buhl Stamping Company. (See Harris, Thomas A., assignor.)
- Buhles, William C., San Francisco, Cal., assignor to Bremer & Bruckmann. Sheet-metal-shaping machine. No. 1,126,699; Feb. 2; Gaz. vol. 211; p. 11.
- Buhles, William C., San Francisco, Cal., assignor, by mesne assignments, to Aluminum Seal Company, Capping-machine. No. 1,162,025; Nov. 30; Gaz. vol. 220; p. 1450.
- Buhles, William C., Alameda, Cal., assignor to Aluminum Seal Company, Pittsburgh, Pa. Closing-machine. No. 1,150,992; Aug. 24; Gaz. vol. 217; p. 1110.

Alphabetical list of patentees—Continued

- Buhles, William C., Alameda, Cal., assignor to Aluminum Seal Company, Pittsburgh, Pa. Packing and making the same. No. 1,162,026; Nov. 30; Gaz. vol. 220; p. 1450.
- Buhles, William C., and J. A. Landsberger, Alameda, Cal. Hermetically-sealed jar. No. 1,158,784; Nov. 2; Gaz. vol. 220; p. 131.
- Buhmann, Charles H., Maywood, W. C. Buhmann and E. E. Iversen, Chicago, Ill. Die-stock oiler. No. 1,150,660; Aug. 17; Gaz. vol. 217; p. 938.
- Buhmann, William C. (See Buhmann and Iversen.)
- Buhoup, Harry C., Chicago, Ill. Coupling carrier and centering device. No. 1,120,547; Feb. 23; Gaz. vol. 211; p. 1134.
- Buhoup, Harry C., Chicago, Ill. Coupling-release rigging. No. 1,162,333; Nov. 30; Gaz. vol. 220; p. 1557.
- Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-centralizing mechanism. No. 1,150,495; Aug. 17; Gaz. vol. 217; p. 881.
- Buhse, Alexander F. (See Buhse, Maximilian E., W. W., A. F., and H. L.)
- Buhse, Henry L. (See Buhse, Maximilian E., W. W., A. F., and H. L.)
- Buhse, Maximilian E., W. W., A. F., and H. L., Minneapolis, Minn. Candy-pulling machine. No. 1,132,556; Mar. 23; Gaz. vol. 212; p. 1072.
- Buhse, Walter W. (See Buhse, Maximilian E., W. W., A. F., and H. L.)
- Buick, David D., Los Angeles, Cal. Well-boring tool. No. 1,159,172; Nov. 2; Gaz. vol. 220; p. 264.
- Buick, David D., Los Angeles, Cal. Carbureter. No. 1,162,680; Nov. 30; Gaz. vol. 220; p. 1672.
- Builders Iron Foundry. (See Dolbey, Harry S., assignor.)
- Builders Iron Foundry. (See Walpole, Benjamin M., assignor.)
- Buls, James G., Coatesville, Ind. Valve-operating mechanism for internal-combustion engines. No. 1,165,841; Dec. 28; Gaz. vol. 221; p. 1209.
- Bujese, Louis, New York, N. Y. Store-goods lifter. No. 1,124,207; Jan. 5; Gaz. vol. 210; p. 345.
- Buker, Ray, Castleock, Wash. Power transmission. No. 1,125,899; Jan. 19; Gaz. vol. 210; p. 1001.
- Bukolt, John J., Stevens Point, Wis. Tightening-link. No. 1,136,309; Apr. 20; Gaz. vol. 213; p. 879.
- Bukovsky, Frank W., Amarillo, Tex. Internal-combustion engine. No. 1,124,850; Jan. 12; Gaz. vol. 210; p. 623.
- Bule, Edward R., New York, N. Y. Wheeled attachment for sleds. No. 1,123,676; Jan. 5; Gaz. vol. 210; p. 163.
- Bulkley, Emory L. (See Treiber and Bulkley.)
- Bull, Albert W. (See Wiebke and Bull.)
- Bull, Anders H., Brooklyn, N. Y. Electric signaling system. No. 1,155,547; Oct. 5; Gaz. vol. 219; p. 78.
- Bull, Clinton H. (See Zincke and Bull.)
- Bull, George W., Stettler, Alberta, Canada. Pruning device. No. 1,125,057; Jan. 19; Gaz. vol. 210; p. 732.
- Bull, Grant, Wellman, Iowa. Wire-fence tightener. No. 1,151,161; Aug. 24; Gaz. vol. 217; p. 1168.
- Bull, Lionel, Chicago, Ill. Teat-cup. No. 1,144,346; June 29; Gaz. vol. 215; p. 1270.
- Bull, Norris C., Downsville, N. Y. Wire-fence fabric. No. 1,161,607; Nov. 23; Gaz. vol. 220; p. 1258.
- Bull, Orvie R., Withee, Wis. Door-latch. No. 1,126,700; Feb. 2; Gaz. vol. 211; p. 11.
- Bull, Robert W., assignor of one-half to W. B. Frazer and one-tenth to W. B. Frazer, trustee, Los Angeles, Cal. Stop-cock. No. 1,156,269; Oct. 12; Gaz. vol. 219; p. 352.
- Bull Tractor Company. (See Hartsough, D. Maurice, assignor.)
- Bulla, Melbern B., El Paso, Tex. Automatic train-stop. No. 1,165,152; Dec. 21; Gaz. vol. 221; p. 933.
- Bullard, Albert M., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Semi-mechanical telephone system. No. 1,126,701; Feb. 2; Gaz. vol. 211; p. 11.
- Bullard, Albert M., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Semi-mechanical telephone system. No. 1,126,952; Feb. 2; Gaz. vol. 211; p. 100.
- Bullard, Albert M., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Semi-automatic exchange system. No. 1,144,997; July 6; Gaz. vol. 216; p. 6.
- Bullard, Albert M., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Semimechanical telephone-exchange system. No. 1,161,608; Nov. 23; Gaz. vol. 220; p. 1258.
- Bullard, Alfred. (See De Palkowska and Bullard.)
- Bullard, Charles E., Brookline, assignor to G. R. Stetson, New Bedford, Mass. Heel-cushion or sock-sole for shoes. No. 1,128,220; Feb. 9; Gaz. vol. 211; p. 585.
- Bullard, Otto B., Spaulding, Nebr. Disk blade. No. 1,141,765; June 1; Gaz. vol. 215; p. 239.
- Bulley, George W., Chicago, Ill. Guiding mechanism for vehicles. No. 1,136,652; Apr. 20; Gaz. vol. 213; p. 993.
- Bulley, Louis T., and G. E. Wheeler, New Haven, Conn. Plating-machine. No. 1,139,454; May 11; Gaz. vol. 214; p. 647.
- Bullinger, Constantine J., Berwyn, Ill. Ink for printing on cloth. No. 1,162,027; Nov. 30; Gaz. vol. 220; p. 1451.
- Bullington, Frank A. (See Roberts and Bullington.)
- Bullington, Lafayette J., Nashville, Ark. Strainer for water-pipes upon locomotives. No. 1,124,587; Jan. 12; Gaz. vol. 210; p. 529.
- Bullis, Frederick O., assignor to Lektric Sales Company, Louisville, Ky. Dispensing-machine. (Reissue.) No. 13,859; Jan. 5; Gaz. vol. 210; p. 363.
- Bullock, Arthur R., Cleveland, Ohio, assignor to H. C. Lee, trustee, Los Angeles, Cal. Condenser arrangement. (Reissue.) No. 14,015; Nov. 23; Gaz. vol. 220; p. 1335.
- Bullock, Charles A. H., London, England. Machine for delivering and affixing postage-stamps and the like. No. 1,147,208; July 20; Gaz. vol. 216; p. 822.
- Bullock, Charles T., Winterville, Ga. Stop mechanism for presses. No. 1,131,597; Mar. 9; Gaz. vol. 212; p. 642.
- Bullock, Charles W., assignor, by mesne assignments, to Fairsimo Glue Company, Inc., Buffalo, N. Y. Waterproof glue or cement and making the same. No. 1,124,286; Jan. 12; Gaz. vol. 210; p. 422.
- Bullock, Charles W., assignor, by mesne assignments, to Fairsimo Glue Company Inc., Buffalo, N. Y. Waterproof composition. No. 1,127,181; Feb. 2; Gaz. vol. 211; p. 182.
- Bullock, H. E. & J. E. (See Bullock, Henry E., assignor.)
- Bullock, Henry E., et al. (See Scherling, Rudolph C., assignor.)
- Bullock, Henry E., assignor to Bullock Tractor Co., Chicago, Ill. Traction-wheel. No. 1,124,287; Jan. 12; Gaz. vol. 210; p. 422.
- Bullock, Henry E., assignor to H. E. & J. E. Bullock, Chicago, Ill. Gearing. No. 1,156,055; Oct. 12; Gaz. vol. 219; p. 280.
- Bullock, Henry E., assignor to Illinois Malleable Iron Company, Chicago, Ill. Brake-shoe. No. 1,160,971; Nov. 16; Gaz. vol. 220; p. 988.
- Bullock, James E., et al. (See Scherling, Rudolph C., assignor.)
- Bullock, Samuel A., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Swing-dampener for truckbolsters. No. 1,130,665; Mar. 2; Gaz. vol. 212; p. 288.
- Bullock, Samuel A., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Truck. No. 1,143,500; June 15; Gaz. vol. 215; p. 922.
- Bullock, Samuel A., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Swing-link bearing for trucks. No. 1,150,741; Aug. 17; Gaz. vol. 217; p. 965.
- Bullock, Samuel M., Chicago, and H. S. Lloyd, Oak Park, Ill. Abrasive. No. 1,133,269; Mar. 30; Gaz. vol. 212; p. 1365.
- Bullock Tractor Co. (See Bullock, Henry E., assignor.)
- Bullock Tractor Co. (See Walker, Frank H., assignor.)
- Bullock Tractor Company. (See Houghton, Orley C., assignor.)
- Bullock Tractor Company. (See Morris, John O., assignor.)
- Bullock Tractor Company. (See Stark, William O., assignor.)
- Bulman, Elvah O., Grand Rapids, Mich. Cigar-cutter. No. 1,124,288; Jan. 12; Gaz. vol. 210; p. 422.
- Bulman, Elvah O., Grand Rapids, Mich. Puzzle. No. 1,146,844; July 20; Gaz. vol. 216; p. 693.
- Bulmer, John B., Toronto, Ontario, Canada. Track-switch. No. 1,138,624; May 11; Gaz. vol. 214; p. 353.
- Bultge, Martin F., Lansing, assignor to National Brick Company, Chicago, Ill. Brick-setting machine. No. 1,131,905; Mar. 16; Gaz. vol. 212; p. 788.
- Bültzingslöwen, Bruno von, New York, N. Y. Aeroplane. No. 1,163,718; Dec. 14; Gaz. vol. 221; p. 390.
- Bültzingslöwen, Bruno von, assignor, by mesne assignments, to A. and M. Freund, New York, N. Y. Meat-tenderer. No. 1,164,240; Dec. 14; Gaz. vol. 221; p. 570.
- Bumann, Albert T., Litchfield, Ill. Safety device for power-presses. No. 1,150,496; Aug. 17; Gaz. vol. 217; p. 881.
- Bumbaugh, George L., assignor of one-half to A. L. Waters, Indianapolis, Ind. Advertising-lighting for dirigible balloons. No. 1,143,807; June 22; Gaz. vol. 215; p. 1051.
- Bump, Charles M., Bay City, Mich. Massaging-machine. No. 1,134,181; Apr. 6; Gaz. vol. 213; p. 35.
- Bunau-Varilla, Etienne, Paris, France. Wind-dividing apparatus for transport-vehicles with kinematic equilibrium. No. 1,135,337; Apr. 13; Gaz. vol. 213; p. 488.
- Bunce, Wesley, Ashton, S. D. Weeder attachment for cultivators. No. 1,163,586; Dec. 7; Gaz. vol. 221; p. 298.
- Bunch, Burt K., Marshall, Mo. Electric lantern. No. 1,130,567; Mar. 2; Gaz. vol. 212; p. 255.
- Bunch, John A., Rockcreek, Ore. Thermostatic automatic regulator for dampers. No. 1,125,810; Jan. 19; Gaz. vol. 210; p. 1001.
- Bunch, William. (See Pool and Bunch.)
- Bunch, William H., Connell, Wash. Engine-starting mechanism. No. 1,150,742; Aug. 17; Gaz. vol. 217; p. 966.
- Bundy, Cyrus L., East Orange, N. J. Car-diaphragm-hood construction. No. 1,145,859; July 6; Gaz. vol. 216; p. 309.
- Bundy, Cyrus L., East Orange, and W. Grant, Passaic, N. J. Curtain-roller. No. 1,133,227; Mar. 23; Gaz. vol. 212; p. 1317.
- Bundy, Cyrus L., East Orange, and W. Grant, Passaic, N. J. Curtain-roller. No. 1,149,993; Aug. 10; Gaz. vol. 217; p. 643.

Alphabetical list of patentees—Continued.

- Bundy, Louis, Medford, Oreg. Carbon-remover. No. 1,125,003; Jan. 12; Gaz. vol. 210; p. 678.
- Bunet, Paul, Whitney, N. C., assignor to Société Generale des Nitrures, Paris, France. Manufacture of aluminium nitrid. No. 1,145,747; July 6; Gaz. vol. 216; p. 270.
- Bunet, Paul, Whitney, N. C., assignor to Société Generale des Nitrures, Paris, France. Electric furnace. No. 1,145,748; July 6; Gaz. vol. 216; p. 271.
- Bunger, George G., Eskridge, Kans. Screen-frame. No. 1,135,352; Apr. 13; Gaz. vol. 213; p. 492.
- Bunker, Charles A., assignor to The Triumph Manufacturing Company, Kansas City, Mo. Laundry-marking machine. No. 1,127,728; Feb. 9; Gaz. vol. 211; p. 412.
- Bunker, James H. (See Warlick and Bunker.)
- Bunker, Raymond U., Yonkers, N. Y. Apparatus for treating materials with liquids. No. 1,131,675; Mar. 16; Gaz. vol. 212; p. 705.
- Bunker, Ward S., Biloxi, Miss. Road-scraper. No. 1,133,094; Mar. 23; Gaz. vol. 212; p. 1271.
- Bunnell, Frederick N., Barnegat, N. J. Clearing device for automobile wind-shields. No. 1,157,673; Oct. 26; Gaz. vol. 219; p. 939.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Hillside-excavator. No. 1,125,896; Jan. 19; Gaz. vol. 210; p. 1029.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Excavating-machine. No. 1,131,114; Mar. 9; Gaz. vol. 212; p. 475.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Excavator. No. 1,140,662; May 25; Gaz. vol. 214; p. 1143.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Window-ventilator. No. 1,147,074; July 20; Gaz. vol. 212; p. 774.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Two-way bucket excavator. No. 1,153,997; Sept. 21; Gaz. vol. 218; p. 649.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Railway trench-machine. No. 1,158,979; Nov. 2; Gaz. vol. 220; p. 198.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Excavating-machine. No. 1,159,173; Nov. 2; Gaz. vol. 220; p. 265.
- Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Bucket excavator. No. 1,160,572; Nov. 16; Gaz. vol. 220; p. 845.
- Bunnell, Morton G., Porter, Ind., assignor to Austin Manufacturing Company, Chicago, Ill. Elevator. No. 1,145,971; July 13; Gaz. vol. 216; p. 368.
- Bunnell, Samuel N., Toms River, N. J. Clothes-line stretcher. No. 1,158,172; Oct. 26; Gaz. vol. 219; p. 1114.
- Bunnell, Sterling H., New Canaan, Conn., assignor to The Griscom-Russell Company. Desiccating apparatus. No. 1,141,102; June 1; Gaz. vol. 215; p. 5.
- Bunnell, Sterling H., New Canaan, Conn., assignor to The Griscom-Russell Company. Desiccating. No. 1,149,627; Aug. 10; Gaz. vol. 217; p. 512.
- Bunnell, William O., and Q. A. Gates, Wilkes-Barre, Pa. Rigid-block car-replacer. No. 1,162,334; Nov. 30; Gaz. vol. 220; p. 1558.
- Bunten, William G., assignor of one-half to M. Fabrizio, Coal Creek, Colo. Combination tack-puller. No. 1,142,664; June 8; Gaz. vol. 215; p. 589.
- Bunting Brass & Bronze Company. (See Bunting, William H., assignor.)
- Bunting, John T., Chicago, Ill. Hot-water heater. No. 1,136,862; Apr. 20; Gaz. vol. 213; p. 1067.
- Bunting, Norman E., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company of New Jersey. Differential gearing. No. 1,158,439; Nov. 2; Gaz. vol. 220; p. 10.
- Bunting, William, Brookline, Mass. Lavatory apparatus. No. 1,150,098; Aug. 17; Gaz. vol. 217; p. 741.
- Bunting, William H., assignor to Bunting Brass & Bronze Company, Toledo, Ohio. Bearing. No. 1,158,369; Oct. 26; Gaz. vol. 219; p. 1182.
- Bunts, Robert Jr., Pulaski, Va. Crane trip-hammer. No. 1,144,025; June 22; Gaz. vol. 215; p. 1129.
- Buquo, G. C., *et al.* (See Mosteller, Dostier H., assignor.)
- Buraczewski, Bronislaw I., Hammond, Ind. Aeroplane. No. 1,151,862; Aug. 31; Gaz. vol. 217; p. 1455.
- Buras, Norbert. (See Collette, Larry, and Buras.)
- Burbank, Louis S., assignor to Draper Company, Hopedale, Mass. Traverse-motion for yarn-spinning apparatus. No. 1,125,924; Jan. 26; Gaz. vol. 210; p. 1072.
- Burbridge, Harry J. (See Melvin and Burbridge.)
- Burchardi, Bernhard T., and B. E. Teille, Brooklyn, N. Y. Cigarette wrapping and tucking machine. No. 1,134,438; Apr. 6; Gaz. vol. 213; p. 129.
- Burchartz, Ferdinand, New York, N. Y. Construction of buildings. No. 1,149,180; Aug. 10; Gaz. vol. 217; p. 348.
- Burchartz, Ferdinand, assignor to Burchartz Fireproofing Company, New York, N. Y. Reinforced-concrete floor and ceiling construction. No. 1,140,571; May 25; Gaz. vol. 214; p. 1111.
- Burchartz, Ferdinand, assignor to Burchartz Fireproofing Company, Inc., New York, N. Y. Floor and ceiling construction. No. 1,142,486; June 8; Gaz. vol. 215; p. 530.
- Burchartz, Ferdinand, New York, N. Y., assignor to Burchartz Fireproofing Company, Inc. Floor or ceiling construction. No. 1,162,028; Nov. 30; Gaz. vol. 220; p. 1451.
- Burchartz Fireproofing Company. (See Burchartz, Ferdinand, assignor.)
- Burchartz Fireproofing Company Inc. (See Lyle, Robert W., assignor.)
- Burchenal, John J., assignor to The Procter and Gamble Company, Cincinnati, Ohio. Food product. No. 1,135,351; Apr. 13; Gaz. vol. 213; p. 492.
- Burchenal, John J., assignor to The Procter and Gamble Company, Cincinnati, Ohio. Food product. No. 1,135,935; Apr. 13; Gaz. vol. 213; p. 696.
- Burchiel, Otha P. (See Stapleton and Burchiel.)
- Burckhalter, Charles H., Bath, S. C. Loom attachment. No. 1,147,675; July 20; Gaz. vol. 216; p. 986.
- Burdell, Victor O., Alameda, Cal. Safety device for pocket purses and wallets. No. 1,148,825; Aug. 3; Gaz. vol. 217; p. 122.
- Burden, Lewis W. (See Bernd and Burden.)
- Burden, Thomas, and E. A. Martin, Warrnambool, Victoria, Australia. Appliance for indicating or correcting errors in printers' galleys. No. 1,128,221; Feb. 9; Gaz. vol. 211; p. 585.
- Burden, Thomas, and E. A. Martin, Warrnambool, Victoria, Australia. Appliance for indicating or correcting errors in printers' galleys. No. 1,128,222; Feb. 9; Gaz. vol. 211; p. 586.
- Burdett, John, *et al.* (See Brown, Harold A., assignor.)
- Burdett, John B., Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Divided door for street-cars or other purposes. No. 1,134,668; Apr. 6; Gaz. vol. 213; p. 214.
- Burdett, John B., Chicago, Ill., assignor to Davis-Bournonville Company, New York, N. Y., and Chicago, Ill. Electrolytic apparatus. No. 1,154,091; Sept. 21; Gaz. vol. 218; p. 682.
- Burdett, John B., Chicago, Ill., assignor to Davis-Bournonville Company, New York, N. Y., and Chicago, Ill. Electrode for electrolytic cells. No. 1,154,092; Sept. 21; Gaz. vol. 218; p. 683.
- Burdick, Fred F., Milton, Wis. Collapsible cabinet. No. 1,141,036; May 25; Gaz. vol. 214; p. 1272.
- Burdick, Lyman E., Berlin, N. Y. Shirt-button-locating attachment. No. 1,160,492; Nov. 16; Gaz. vol. 220; p. 817.
- Burdine, Charles C., Washington, D. C., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,126,383; Jan. 26; Gaz. vol. 210; p. 1239.
- Burdorf, Charles B. (See Hawsworth, Percy, assignor.)
- Burdorf, Henry H. (See Schlag, Burdorf, and Schlag.)
- Burg, Bertha R., San Diego, Cal. Garbage-incinerator. No. 1,160,256; Nov. 16; Gaz. vol. 220; p. 734.
- Burger, Alfred, New Brighton, N. Y. Filtering. No. 1,164,065; Dec. 14; Gaz. vol. 221; p. 512.
- Bürger, Franz, assignor to Firm of H. Lanz, Mannheim, Germany. Superheater and economizer for horizontal smoke-tube boilers. No. 1,143,501; June 15; Gaz. vol. 215; p. 922.
- Burger, Frederick W. (See Leilich and Burger.)
- Burger, Herman A., Kansas City, Mo. Etching-machine. No. 1,145,183; July 6; Gaz. vol. 216; p. 73.
- Burger, Jerrymlah M. (See Howard and Burger.)
- Burger, Philipp, Berlin, Germany. Depolarizer for galvanic cells. No. 1,123,843; Jan. 5; Gaz. vol. 210; p. 220.
- Burger, William S. (See Blays, Benjamin H., assignor.)
- Burgeson, Andrew G., Douglas, N. D. Belt-guide. No. 1,134,103; Apr. 6; Gaz. vol. 213; p. 7.
- Burgess, Charles F., assignor to C. F. Burgess Laboratories, Madison, Wis. Sheet metal and its production. No. 1,144,106; June 22; Gaz. vol. 215; p. 1158.
- Burgess, Charles F., Madison, Wis., assignor to C. F. Burgess Laboratories. Battery. No. 1,162,449; Nov. 30; Gaz. vol. 220; p. 1597.
- Burgess, Charles F., assignor to C. F. Burgess Laboratories, Madison, Wis. Electric hand-lantern. No. 1,163,887; Dec. 14; Gaz. vol. 221; p. 449.
- Burgess, Ernest, Norwalk, Conn. Tension device for loom-shuttles. No. 1,146,689; July 13; Gaz. vol. 216; p. 620.
- Burgess, Ezra R., *et al.* (See Goodyer, Harold J., assignor.)
- Burgess, Frank, Norfolk Downs, Mass. Gear-cutting machine. No. 1,143,570; June 15; Gaz. vol. 215; p. 946.
- Burgess, Gardner M., Providence, R. I. Pocket-clip for spectacle-cases or other articles. No. 1,132,912; Mar. 23; Gaz. vol. 212; p. 1204.
- Burgess, Garrett, Detroit, Mich. Blower for boilers. No. 1,128,406; Feb. 16; Gaz. vol. 211; p. 699.
- Burgess, Garrett, Detroit, Mich. Signal for automobiles. No. 1,134,104; Apr. 6; Gaz. vol. 213; p. 8.
- Burgess, Garrett, Detroit, Mich., assignor to Vulcan Soot Cleaner Co. of Pittsburg, Pa., Dubois, Pa. Boiler-tube cleaner. (Reissue.) No. 13,966; Aug. 24; Gaz. vol. 217; p. 1306.
- Burgess, George A., assignor of one-third to E. E. Seufferle, Washington, D. C. Garter. No. 1,131,467; Mar. 9; Gaz. vol. 212; p. 598.
- Burgess, George F. (See Burgess, John W. and G. F.)

Alphabetical list of patentees—Continued.

- Burgess, George R., Tacoma, Wash. Saw. No. 1,136,181; Apr. 20; Gaz. vol. 213; p. 825.
- Burgess, James C., Indianapolis, Ind. Rail tie and fastener. No. 1,159,742; Nov. 9; Gaz. vol. 220; p. 500.
- Burgess, James C., assignor of one-half to P. O. Brown, Indianapolis, Ind. Rail tie and fastener. No. 1,149,724; Aug. 10; Gaz. vol. 217; p. 545.
- Burgess, John W. and G. F., Brookfield, Mo. Tire-fastening means. No. 1,134,313; Apr. 6; Gaz. vol. 213; p. 84.
- Burgess, Louis W., Wheaton, Ill. Making cuts. No. 1,155,128; Sept. 28; Gaz. vol. 218; p. 1067.
- Burgess-Norton Company. (See Bridges, Charles E., assignor.)
- Burgess, Richard H., Mullin, Tex. Resilient wheel. No. 1,131,468; Mar. 9; Gaz. vol. 212; p. 538.
- Burgess, William J., Oleum, Cal. Tool for truing cylindrical objects. No. 1,146,305; July 13; Gaz. vol. 216; p. 485.
- Burgess, Willard N., et al. (See Templeton, William G., assignor.)
- Burgess, William T., Crowville, La. Keyless padlock. No. 1,149,022; Aug. 3; Gaz. vol. 217; p. 190.
- Burgher, Earle R., East Liverpool, Ohio. Wire straightening and planishing machine. No. 1,128,223; Feb. 9; Gaz. vol. 211; p. 586.
- Burglar Proof Lock and Hardware Corporation. (See Segal, Samuel, assignor.)
- Burgschmiet, Georg, Morden, Manitoba, Canada. Explosive. No. 1,139,339; May 11; Gaz. vol. 214; p. 605.
- Burgwald, Charles C., New York, N. Y. Window-screen. No. 1,158,116; Oct. 26; Gaz. vol. 219; p. 1094.
- Burham, Henry F., Wauweta, Nebr. Cream-can rinser and sterilizer. No. 1,146,845; July 20; Gaz. vol. 216; p. 694.
- Burhans, Van Dyke, New York, N. Y. Adjustable window-scaffold. No. 1,157,503; Oct. 19; Gaz. vol. 219; p. 818.
- Burk, William H., St. Louis, Mo. Structural unit. No. 1,146,999; July 20; Gaz. vol. 216; p. 749.
- Burk, William H., St. Louis, Mo. Metallic lathing and concrete-reinforcing structure. No. 1,147,000; July 20; Gaz. vol. 216; p. 750.
- Burkart, William J., Latrobe, assignor of one-half to C. H. Hook, Pittsburgh, Pa. Relief-valve. No. 1,149,023; Aug. 3; Gaz. vol. 217; p. 191.
- Burke, Alfred W., Wilkensburg, Pa. Limiter and interrupter for alternating electric currents. No. 1,123,677; Jan. 5; Gaz. vol. 210; p. 164.
- Burke, Alfred W., Wilmington, Del. Insulated support for electrical devices. No. 1,162,747; Dec. 7; Gaz. vol. 221; p. 6.
- Burke, Cordelia A. (See Gill and Burke.)
- Burke, Edwin, assignor to Manila Refining Co., Manila, Philippine Islands. Paraffin candle. No. 1,125,058; Jan. 19; Gaz. vol. 210; p. 732.
- Burke Electric Company. (See Burke, James, assignor.)
- Burke, Helen G. (See Recents, Richard H., assignor.)
- Burke, James, Erie, Pa., assignor to Burke Electric Company. Transformer. No. 1,145,551; July 6; Gaz. vol. 216; p. 201.
- Burke, James E., et al. (See Burke, William W., assignor.)
- Burke, James E., assignor of one-half to Cooper Manufacturing Co., Bennington, Vt. Union garment. No. 1,152,484; Sept. 7; Gaz. vol. 218; p. 37.
- Burke, John H. (See Saltzger and Burke.)
- Burke, John H., and O. A. Wilming, Willits, Cal. Sanitary meat-case. No. 1,129,635; Feb. 23; Gaz. vol. 211; p. 1165.
- Burke, Joseph J., and W. F. McPhee, Joliet, Ill. Smudging device. No. 1,162,975; Dec. 7; Gaz. vol. 221; p. 84.
- Burke, Michael A., Kingman, Ariz. Support. No. 1,131,906; Mar. 16; Gaz. vol. 212; p. 788.
- Burke, Michael H., Denver, Colo. Heel-grip. No. 1,155,209; Sept. 28; Gaz. vol. 218; p. 1093.
- Burke, Patrick, Masonville, Iowa. Planter. No. 1,147,480; July 20; Gaz. vol. 216; p. 917.
- Burke, Patrick J. (See Whalen and Burke.)
- Burke, Robert F., and J. E. Craven, Philadelphia, Pa. Attachment for displacement-lubricators. No. 1,131,323; Mar. 9; Gaz. vol. 212; p. 549.
- Burke, Solon W., Archbold, Ohio. Pocket-atomizer. No. 1,148,749; Aug. 3; Gaz. vol. 217; p. 96.
- Burke, Stephen E., assignor of one-half to J. Allamong, Hamilton, Ind. Draft-regulator. No. 1,131,036; Mar. 9; Gaz. vol. 212; p. 450.
- Burke, Thomas, New York, N. Y. Combined sleigh and wagon. No. 1,154,370; Sept. 21; Gaz. vol. 218; p. 779.
- Burke, Thomas, assignor of one-third to F. A. Leatnow and one-third to L. Bernstein, Cleveland, Ohio. Compound railway-rail. No. 1,141,766; June 1; Gaz. vol. 215; p. 239.
- Burke, Thomas P., Nicholson, Pa. Wheel and track heater. No. 1,124,289; Jan. 12; Gaz. vol. 210; p. 422.
- Burke, Timothy J., Middletown, N. Y. Hat and cap holder. No. 1,154,371; Sept. 21; Gaz. vol. 218; p. 779.
- Burke, Ulysses J., Des Moines, Iowa. Adjustable letter-package tier. No. 1,139,100; May 11; Gaz. vol. 214; p. 524.
- Burke, William J., New York, N. Y. Signaling device for motor-vehicles. No. 1,133,002; Mar. 23; Gaz. vol. 212; p. 1238.
- Burke, William J., New York, N. Y. Signaling device for motor-vehicles. No. 1,133,003; Mar. 23; Gaz. vol. 212; p. 1239.
- Burke, William P., assignor of twenty-four one-hundredths to F. T. Walsh, Springfield, Mass. Vacuum reducing-valve. No. 1,162,731; Nov. 30; Gaz. vol. 220; p. 1690.
- Burke, William W., assignor of one-fourth to J. E. Burke and one-fourth to A. J. Cooper, Bennington, Vt. Brake for rotary shafts. No. 1,141,230; June 1; Gaz. vol. 215; p. 49.
- Burke, William W., assignor of one-fourth to J. E. Burke and one-fourth to A. J. Cooper, Bennington, Vt. Stop-motion mechanism for knitting-machines. No. 1,148,076; July 27; Gaz. vol. 216; p. 1154.
- Burkel Manufacturing Company. (See Kelly, William D., assignor.)
- Burket, Elmer, Wayne, Pa. Shoe-lace holder. No. 1,137,381; Apr. 27; Gaz. vol. 213; p. 1293.
- Burket, Wilbert A., assignor to The Sidney Manufacturing Company, Sidney, Ohio. Runabout-seat. No. 1,135,761; Apr. 13; Gaz. vol. 213; p. 637.
- Burkett, Frank, Lufkin, Tex. Boiler-tube. No. 1,146,050; July 13; Gaz. vol. 216; p. 397.
- Burkey, Harvey M. (See Rody and Burkey.)
- Burkhardt, Alexander, Indianapolis, Ind. Engine. No. 1,137,118; Apr. 27; Gaz. vol. 213; p. 1196.
- Burkhardt, Alexander, Indianapolis, Ind. Engine. No. 1,149,335; Aug. 10; Gaz. vol. 217; p. 406.
- Burkhardt, Frederick C., assignor to The Crosby Company, Buffalo, N. Y. Axle-housing. No. 1,127,399; Feb. 9; Gaz. vol. 211; p. 297.
- Burkhart, Daniel S., Spokane, Wash. Fire-escape. No. 1,164,988; Dec. 21; Gaz. vol. 221; p. 874.
- Burkhart, Daniel S., Spokane, Wash. Governor. No. 1,165,842; Dec. 28; Gaz. vol. 221; p. 1209.
- Burkhart, Frank C., Omaha, Nebr. Lighting-fixture. No. 1,163,208; Dec. 7; Gaz. vol. 221; p. 166.
- Burkhart, William S., assignor of one-half to C. J. Miller, Martins Ferry, Ohio. Carpenter's tool. No. 1,160,103; Nov. 9; Gaz. vol. 220; p. 628.
- Burkhartzmeyer, Jacob, Faribault, Minn. Folding chair. No. 1,161,609; Nov. 23; Gaz. vol. 220; p. 1259.
- Burkhead, Charles W., assignor to Burkhead Metal Working Company, Cincinnati, Ohio. Extensible metallic window-screen. No. 1,158,440; Nov. 2; Gaz. vol. 220; p. 10.
- Burkhead Metal Working Company. (See Burkhead, Charles W., assignor.)
- Burkheiser & Company (Gesellschaft mit beschränkter Haftung). (See Burkheiser, Karl, assignor.)
- Burkheiser, Karl, Fruchthof, Hamburg, Germany. Removing sulfureted hydrogen from gases. No. 1,160,375; Nov. 16; Gaz. vol. 220; p. 775.
- Burkheiser, Karl, assignor to Burkheiser & Company (Gesellschaft mit beschränkter Haftung), Hamburg, Germany. Purifying gases of dry distillation and recovering the by-products thereof. No. 1,160,836; Nov. 16; Gaz. vol. 220; p. 941.
- Burkholder, John H., assignor to The Elite Manufacturing Company, Ashland, Ohio. Lift-jack for vehicles. No. 1,161,610; Nov. 23; Gaz. vol. 220; p. 1259.
- Burkle, Edward E., Bridgeport, Ohio. Curing meats. No. 1,124,851; Jan. 12; Gaz. vol. 210; p. 624.
- Burkle, Edward E., Bridgeport, Ohio. Rendering lard and the like. No. 1,124,852; Jan. 12; Gaz. vol. 210; p. 624.
- Burkman, Arthur, Traverse City, Mich. Artificial bait. No. 1,155,883; Oct. 5; Gaz. vol. 219; p. 195.
- Burks, Eugene G., and N. Hayes, Birmingham, Ala. Coal-washing apparatus. No. 1,132,433; Mar. 16; Gaz. vol. 212; p. 980.
- Burleson, William E., and W. T. Staebler, Ann Arbor, Mich.; said Staebler assignor to said Burleson. Cover-plate for stoves. No. 1,164,066; Dec. 14; Gaz. vol. 221; p. 512.
- Burlingame, George L., Chicago, Ill. Gas-shut-off valve. No. 1,154,561; Sept. 21; Gaz. vol. 218; p. 842.
- Burlingame, Stephen C., Sterling, Conn. Bundle-tying device. No. 1,140,246; May 18; Gaz. vol. 214; p. 961.
- Burlingham, William. (See Palen and Burlingham.)
- Burlingham, William, assignor of one-half to J. B. Weaver, Newport News, Va. Pneumatic impact-tool. No. 1,123,678; Jan. 5; Gaz. vol. 210; p. 164.
- Burlingham, William, assignor of one-half to J. B. Weaver, Newport News, Va. Percussive boiler-tube cleaner. No. 1,134,723; Apr. 6; Gaz. vol. 213; p. 234.
- Burlingham, William, assignor of one-half to J. B. Weaver, Newport News, Va. Percussive boiler-tube cleaner. No. 1,151,510; Aug. 24; Gaz. vol. 217; p. 1285.
- Burlingham, William, assignor of one-half to J. B. Weaver, Newport News, Va. Lining tubes. No. 1,166,038; Dec. 28; Gaz. vol. 221; p. 1278.
- Burlingham, William, assignor of one-half to J. B. Weaver, Newport News, Va. Lined tube. No. 1,166,039; Dec. 28; Gaz. vol. 221; p. 1279.
- Burlingham, William, Newport News, Va. Apparatus for lining tubes. No. 1,166,040; Dec. 28; Gaz. vol. 221; p. 1279.
- Burman, Frank V., assignor to Bay City Iron Co., Bay City, Mich. Angle-iron-bending machine. No. 1,144,459; June 29; Gaz. vol. 215; p. 1308.

Alphabetical list of patentees—Continued.

- Burmeister, Robert F., Milwaukee, Wis. Radiator. No. 1,159,357; Nov. 9; Gaz. vol. 220; p. 361.
- Burnam, Lyman. (See Fine and Burnam.)
- Burnap, Charles E., Chicago, Ill. Key-tag. No. 1,156,345; Oct. 12; Gaz. vol. 219; p. 378.
- Burnell, Arthur S., and I. L. Lavender, assignors to Queen Manufacturing Company, Webster City, Iowa. Steering device for motor-vehicles. No. 1,144,754; June 29; Gaz. vol. 215; p. 1409.
- Burnell, William E., Silver Springs, assignor to Gundlach-Manhattan Optical Company, Rochester, N. Y. Tripod for cameras. No. 1,152,071; Aug. 31; Gaz. vol. 217; p. 1526.
- Burnet, Lewis C., Bloomfield, N. J. Household utensil or the like. No. 1,147,001; July 20; Gaz. vol. 216; p. 750.
- Burnett, Buell S., Jacksonville, Fla. Permutation-lock. No. 1,136,653; Apr. 20; Gaz. vol. 213; p. 993.
- Burnett, Buell S., Jacksonville, Fla. Permutation-lock. No. 1,163,504; Dec. 7; Gaz. vol. 221; p. 268.
- Burnett, Charley, Washington Court-House, Ohio. Fruit-jar. No. 1,165,314; Dec. 21; Gaz. vol. 221; p. 986.
- Burnett, Frank W., Roanoke, Va. Lock-out for bolts. No. 1,136,310; Apr. 20; Gaz. vol. 213; p. 871.
- Burnett, Richard W. (See Ord, Lewis C., assignor.)
- Burnett, Richard W., Montreal, Quebec, Canada. Angle-cock hanger for air-brake pipes of cars. No. 1,125,811; Jan. 19; Gaz. vol. 210; p. 1001.
- Burnett, Richard W., Montreal, Quebec, Canada. Berth-ventilator. No. 1,127,858; Feb. 9; Gaz. vol. 211; p. 460.
- Burnett, Richard W., Montreal, Quebec, Canada. Draft-rigging for railway-cars. No. 1,127,958; Feb. 9; Gaz. vol. 211; p. 495.
- Burnett, Richard W., Montreal, Quebec, Canada. Car-truck. No. 1,149,181; Aug. 10; Gaz. vol. 217; p. 349.
- Burnett, Richard W., Montreal, Quebec, Canada. Railway-car roof. No. 1,152,072; Aug. 31; Gaz. vol. 217; p. 1527.
- Burnett, Richard W., Montreal, Canada, assignor to Camel Company, Chicago, Ill. Track structure for freight-car doors. No. 1,156,884; Oct. 19; Gaz. vol. 219; p. 598.
- Burnett, Richard W., assignor to himself and W. W. Butler and H. H. Vaughan, Montreal, Quebec, Canada. Grain-door lock. No. 1,133,534; Mar. 30; Gaz. vol. 212; p. 1464.
- Burnett, Richard W., and H. H. Vaughan, Montreal, Quebec, Canada. Railway freight-car. No. 1,130,791; Mar. 9; Gaz. vol. 212; p. 365.
- Burnett, Robert L., Sr. (See Page, Harvey L., assignor.)
- Burnett, William J., Minneapolis, Minn. Cooker. No. 1,161,838; Nov. 30; Gaz. vol. 220; p. 1384.
- Burnfield, David, Denver, Colo. Soft-coal burning and smoke-consuming apparatus for locomotive-engines. No. 1,150,338; Aug. 17; Gaz. vol. 217; p. 826.
- Burnham Basket Company. (See Burnham, Charles, assignor.)
- Burnham, Charles, Los Angeles, Cal. Metal-strip-bending mechanism. No. 1,154,970; Sept. 28; Gaz. vol. 218; p. 1010.
- Burnham, Charles, Los Angeles, Cal., assignor to Burnham Basket Company. Box-making machine. No. 1,154,610; Sept. 28; Gaz. vol. 218; p. 888.
- Burnham, Charles, Los Angeles, Cal., assignor to Burnham Basket Company. Feeding mechanism for box-making machines. No. 1,154,968; Sept. 28; Gaz. vol. 218; p. 1009.
- Burnham, Charles, Los Angeles, Cal., assignor to Burnham Basket Company. Box-making machine. No. 1,154,969; Sept. 28; Gaz. vol. 218; p. 1009.
- Burnham, Edward K. (See Ryan, William P., assignor.)
- Burnham, Francis M., Kentfield, and C. A. Myers, Berkeley, Cal. Ventilated produce-crate. No. 1,142,300; June 8; Gaz. vol. 215; p. 463.
- Burnham, Frederick E., assignor of one-third to J. E. Burr, Scranton, Pa. Shaft attachment. No. 1,155,210; Sept. 28; Gaz. vol. 218; p. 1094.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Current-controlling device for electric circuits. No. 1,124,290; Jan. 12; Gaz. vol. 210; p. 422.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Time-controlled tripping-coil. No. 1,126,384; Jan. 26; Gaz. vol. 210; p. 1239.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Time-limit controlling device for electric switches. No. 1,140,248; May 18; Gaz. vol. 214; p. 962.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Time-limit relay. No. 1,140,249; May 18; Gaz. vol. 214; p. 962.
- Burnham, George A., Saugus, Mass., assignor, by mesne assignments, to General Electric Company. Protecting means for electrical distribution systems. No. 1,165,844; Dec. 28; Gaz. vol. 221; p. 1210.
- Burnham, George A., Cliftondale, assignor to S. B. Condit, Jr., Brookline, Mass. Series transformer. No. 1,138,625; May 11; Gaz. vol. 214; p. 353.
- Burnham, George A., Cliftondale, assignor to S. B. Condit, Jr., Boston, Mass. Electric compensator. No. 1,140,247; May 18; Gaz. vol. 214; p. 961.
- Burnham, George A., Cliftondale, Mass., assignor, by mesne assignments, to General Electric Company. Removable unit oil-switch. No. 1,165,843; Dec. 28; Gaz. vol. 221; p. 1210.
- Burnham, Louis T., assignor of one-half to N. A. Simmons, Hinton, Okla. Hand harvesting device. No. 1,135,569; Apr. 13; Gaz. vol. 213; p. 570.
- Burnham, Raymond, Chicago, Ill. Steam-meter. No. 1,145,860; July 6; Gaz. vol. 216; p. 309.
- Burnham, Raymond, Minneapolis, Minn., assignor to Gebhardt Meter Company. Magnetic engine. No. 1,144,998; July 6; Gaz. vol. 216; p. 7.
- Burnham, Timon J., Jackson, Miss. Carbureter. No. 1,160,837; Nov. 16; Gaz. vol. 220; p. 941.
- Burnhart, George W., Denver, Colo. Fluid-pressure motor. No. 1,142,551; June 8; Gaz. vol. 215; p. 552.
- Burns & Bassick Company, The. (See Cummins, Norman W., assignor.)
- Burns & Bassick Company, The. (See Pfeiffer, Herbert J., assignor.)
- Burns, Benjamin A., Hoboken, N. J. Calliper-compass tool. No. 1,162,748; Dec. 7; Gaz. vol. 221; p. 6.
- Burns, Clinton S., Kansas City, Mo. Flushing device. No. 1,130,885; Mar. 9; Gaz. vol. 212; p. 398.
- Burns, Clyde F., Chicago, Ill. Stump-puller. No. 1,143,358; June 15; Gaz. vol. 215; p. 874.
- Burns, Edward, Covington, La. Water-cycle appliance. No. 1,160,257; Nov. 16; Gaz. vol. 220; p. 735.
- Burns, Edward V., Chicago, Ill., assignor to Chicago Shipping & Receipt Book Company. Locking means for loose-leaf blunders. No. 1,143,359; June 15; Gaz. vol. 215; p. 874.
- Burns, Elliott. (See Overfield, Hamsley, and Burns.)
- Burns, Floyd L., Casper, Wyo. Vehicle running-gear. No. 1,160,258; Nov. 16; Gaz. vol. 220; p. 735.
- Burns, Francis B., North River, N. Y. Pipe-holding device. No. 1,155,337; Oct. 5; Gaz. vol. 219; p. 4.
- Burns, Francis E., San Francisco, Cal. Paper-cutter. No. 1,125,458; Jan. 19; Gaz. vol. 210; p. 876.
- Burns, Garrett, Canandaigua, N. Y. Machine for spreading road-surfacing material. No. 1,162,029; Nov. 30; Gaz. vol. 220; p. 1451.
- Burns, Herbert A. (See Cottrell and Burns.)
- Burns, Hugh D., Chicago, Ill. Tobacco-case. No. 1,129,636; Feb. 23; Gaz. vol. 211; p. 1165.
- Burns, James A. (See Auel and Burns.)
- Burns, James O., Chicago, Ill. Railway-switch stand. No. 1,127,959; Feb. 9; Gaz. vol. 211; p. 496.
- Burns, John, New York, N. Y. Dental molding apparatus. No. 1,146,550; July 13; Gaz. vol. 216; p. 573.
- Burns, John, assignor to The Simmons Manufacturing Company, Kenosha, Wis. Bed fabric. No. 1,128,581; Feb. 16; Gaz. vol. 211; p. 760.
- Burns, John G., et al. (See Jobke, August F., assignor.)
- Burns, John W. (See Powers and Burns.)
- Burns, Owen. (See Hazen, Jean D., assignor.)
- Burns, P. J. (See Gurney, Edmund, assignor.)
- Burns, Patrick. (See Van Schalk, Burns, and Reardon.)
- Burns, Paul, Hartsville, S. C. Automatic draining attachment for valves. No. 1,126,385; Jan. 26; Gaz. vol. 210; p. 1240.
- Burns, Peter C., assignor to American Electric Company, Chicago, Ill. Automobile-horn. No. 1,159,467; Nov. 9; Gaz. vol. 220; p. 402.
- Burns, Peter C., assignor to American Electric Company, Chicago, Ill. Horn. No. 1,159,468; Nov. 9; Gaz. vol. 220; p. 402.
- Burns, Robert, assignor to Jabez Burns & Sons, New York, N. Y. Coffee-roaster. No. 1,128,101; Feb. 9; Gaz. vol. 211; p. 545.
- Burns, Robert H., and H. M. Mason, Kennewick, Wash. Milk-cooler. No. 1,148,351; July 27; Gaz. vol. 216; p. 1252.
- Burns, Thomas J. (See Oppenheim and Burns.)
- Burns, Walter G. (See Young, Flavius J., assignor.)
- Burpee, Frank W., Bellingham, Wash. Weighing-machine. No. 1,148,826; Aug. 3; Gaz. vol. 217; p. 123.
- Burpee, Frank W., Bellingham, Wash. Assorting-machine. No. 1,150,171; Aug. 17; Gaz. vol. 217; p. 768.
- Burpee, Frank W., South Bellingham, Wash. Continuous can-cooking retort. No. 1,154,611; Sept. 28; Gaz. vol. 218; p. 888.
- Burpee and Letson. (See McIntosh, David A., assignor.)
- Burr, George H., et al., trustees. (See Schwartz, Herman M., assignor.)
- Burr, James E. (See Burnham, Frederick E., assignor.)
- Burr, Jason L., assignor to The Gloversville Silk Mills, Gloversville, N. Y. Covering for display-forms. No. 1,141,313; June 1; Gaz. vol. 215; p. 80.
- Burrell, Edward P., assignor to The Warner and Swasey Company, Cleveland, Ohio. Tool-holding turret. No. 1,140,733; May 25; Gaz. vol. 214; p. 1165.
- Burrell, George, Durban, Natal, South Africa. Device for delivering pouches from moving trains. No. 1,140,022; May 18; Gaz. vol. 214; p. 884.
- Burrell, Ralph, Pomerania, N. J. Device for clenching eyelets and books. No. 1,142,797; June 15; Gaz. vol. 215; p. 675.
- Burriil, Peter, Balmalm, near Sydney, New South Wales, Australia. Axle-lubricator. No. 1,155,790; Oct. 5; Gaz. vol. 216; p. 163.

Alphabetical list of patentees—Continued.

- Burrill, William E. (See Berry and Burrill.)
- Burris, Frank D., Waukegan, Ill. Motor-truck. No. 1,139,635; May 18; Gaz. vol. 214; p. 746.
- Burris, George P., Pueblo, Colo. Meat tenderer. No. 1,149,336; Aug. 10; Gaz. vol. 217; p. 407.
- Burris, Melvin, Mendon, Ohio. Fence post mold. No. 1,147,075; July 20; Gaz. vol. 216; p. 775.
- Burris, Samuel L., Southport, N. C. Combination step-ladder and ironing-board. No. 1,149,725; Aug. 10; Gaz. vol. 217; p. 546.
- Burritt, Augustus F., Ozone Park, N. Y. Battery-cell. No. 1,154,372; Sept. 21; Gaz. vol. 218; p. 780.
- Burritt, Josephine T. (See Burritt, William H., assignor.)
- Burritt, William H., assignor to J. T. Burritt, St. Louis, Mo. Pneumatic tire. No. 1,162,749; Dec. 7; Gaz. vol. 221; p. 6.
- Burmann, Henry, Davenport, Iowa. Safety appliance for elevators. No. 1,134,182; Apr. 6; Gaz. vol. 213; p. 36.
- Burroughs Adding Machine Company. (See Benner, Russell E., assignor.)
- Burroughs Adding Machine Company. (See Chapin, John J., assignor.)
- Burroughs Adding Machine Company. (See Gardner, Clyde E. W., assignor.)
- Burroughs Adding Machine Company. (See Gooch, Claborn W., assignor.)
- Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)
- Burroughs Adding Machine Company. (See Kilpatrick, William J., assignor.)
- Burroughs Adding Machine Company. (See Macauley, Alvan, assignor.)
- Burroughs Adding Machine Company. (See Main, Fred F., assignor.)
- Burroughs Adding Machine Company. (See McFarland, Charles N., assignor.)
- Burroughs Adding Machine Company. (See Pentecost, Arthur, assignor.)
- Burroughs Adding Machine Company. (See Rinsche, Frank C., assignor.)
- Burroughs Adding Machine Company. (See Swalm, William E., assignor.)
- Burroughs Adding Machine Company. (See Vincent, Jesse G., assignor.)
- Burroughs Adding Machine Company. (See Wales, Charles, assignor.)
- Burroughs, Charles F., East Orange, and F. B. Northrup, Orange, assignors to The Charles Burroughs Company, Newark, N. J. Power molding-press. No. 1,126,953; Feb. 2; Gaz. vol. 211; p. 101.
- Burroughs, Charles F., East Orange, and F. B. Northrup, Orange, assignors to The Charles Burroughs Company, Newark, N. J. Die for power molding-presses. No. 1,126,954; Feb. 2; Gaz. vol. 211; p. 101.
- Burroughs, Charles F., East Orange, and F. B. Northrup, Orange, assignors to The Charles Burroughs Company, Newark, N. J. Extrusion-machine. No. 1,162,335; Nov. 30; Gaz. vol. 220; p. 1558.
- Burroughs, Eben, Racine, Wis. Motor-car. No. 1,138,078; May 4; Gaz. vol. 214; p. 126.
- Burroughs, Harry H., Keosauqua, Me. Garment-supporter. No. 1,133,095; Mar. 23; Gaz. vol. 212; p. 1271.
- Burroughs, James W., Irvington, N. Y. Making phosphoric acid. No. 1,142,397; June 8; Gaz. vol. 215; p. 499.
- Burrow, Edgar A., San Angelo, Tex., assignor of seventy one-hundredths to himself and thirty one-hundredths to B. C. Alexander and M. A. Guthrie, executrix of W. A. Guthrie, deceased. Engine. No. 1,144,584; June 29; Gaz. vol. 215; p. 1349.
- Burrow, Edgar A., San Angelo, Tex., assignor of seventy one-hundredths to himself and thirty one-hundredths to B. C. Alexander and M. A. Guthrie, executrix of W. A. Guthrie, deceased. Valve-gear. No. 1,144,585; June 29; Gaz. vol. 215; p. 1349.
- Burrow, Edgar A., San Angelo, Tex., assignor of seventy one-hundredths to himself and thirty one-hundredths to B. C. Alexander and M. A. Guthrie, executrix of W. A. Guthrie, deceased. Governor. No. 1,144,586; June 29; Gaz. vol. 215; p. 1350.
- Burrow, Edward F., assignor to R. M. Hunter, Philadelphia, Pa. Grease-cup. No. 1,148,473; July 27; Gaz. vol. 216; p. 1293.
- Burrowes, Edward T., Portland, Me. Billiard or pool table bed. No. 1,125,459; Jan. 19; Gaz. vol. 210; p. 876.
- Burrowes, Edward T., Portland, Me. Billiard or pool table. No. 1,125,460; Jan. 19; Gaz. vol. 210; p. 876.
- Burrowes, Edward T., Portland, Me. Billiard and pool table. No. 1,125,461; Jan. 19; Gaz. vol. 210; p. 876.
- Burrowes, Edward T., Portland, Me. Metallic frame. No. 1,152,073; Aug. 31; Gaz. vol. 217; p. 1527.
- Burrowes, Edward T., Portland, Me. Metal screen-guide. No. 1,152,074; Aug. 31; Gaz. vol. 217; p. 1527.
- Burrows, Charles F. (See Ford, Hannibal C., assignor.)
- Burrows, John. (See Vogel and Burrows.)
- Burrows, Robert J., and E. B. Ross, Buchanan, Mich., assignors of one-half to Celfor Tool Company and one-half to Buchanan Electric Steel Company, Chicago, Ill. Wheel. No. 1,131,819; Mar. 16; Gaz. vol. 212; p. 758.
- Burrows, William J., assignor to Daisy Manufacturing Company, Plymouth, Mich. Plunger-shaft for spring air-guns. No. 1,150,248; Aug. 17; Gaz. vol. 217; p. 797.
- Burrows, William R., Newark, N. J. Machine for the manufacture of vacuum-receptacles. No. 1,156,971; Oct. 19; Gaz. vol. 219; p. 629.
- Burson Manufacturing Company. (See Hinchliff and Anderson, assignors.)
- Burson Manufacturing Company. (See Stites, Samuel T., assignor.)
- Burson, Schuyler C., assignor of one-half to D. H. Piper, Axtell, Kans. Automobile-wheel. No. 1,131,324; Mar. 9; Gaz. vol. 212; p. 549.
- Burstyn, Walther, Berlin, Germany. Wireless-telephone transmitter. No. 1,148,827; Aug. 3; Gaz. vol. 217; p. 123.
- Burt, Charles P., East Orange, N. J. Selective speed mechanism and controlling device therefor. No. 1,133,925; Mar. 30; Gaz. vol. 212; p. 1602.
- Burt, Edward W., Boston, Mass. Shoe-heel. No. 1,151,511; Aug. 24; Gaz. vol. 217; p. 1285.
- Burt Machine Company. (See Wild, Frederick W., Jr., assignor.)
- Burt, Maurice O., Colorado Springs, Colo. Electric signal system for hospitals. No. 1,134,105; Apr. 6; Gaz. vol. 213; p. 8.
- Burt, William H., assignor to Waterbury Mfg. Co., Waterbury, Conn. Switch-plate. No. 1,144,107; June 22; Gaz. vol. 215; p. 1158.
- Burt, William J., Oklahoma, Okla., assignor to Oklahoma Paper Company, Paper box. No. 1,163,209; Dec. 7; Gaz. vol. 221; p. 166.
- Burch, Delbert, Toronto, Ontario, Canada. Centrifugal separator. No. 1,161,839; Nov. 30; Gaz. vol. 220; p. 1385.
- Burichaell, Arthur E., San Francisco, Cal. Cell-case. No. 1,160,493; Nov. 16; Gaz. vol. 220; p. 817.
- Burton, Carl O., New Duluth, Minn. Insulated joint. No. 1,148,498; Aug. 3; Gaz. vol. 217; p. 5.
- Burton, Carl O., Duluth, Minn. Joint-insulator. No. 1,159,567; Nov. 9; Gaz. vol. 220; p. 436.
- Burton, Carroll, Johnstown, Pa. Switch-operating mechanism. No. 1,125,957; Jan. 26; Gaz. vol. 210; p. 1084.
- Burton, Charles A., Chicago, Ill. Perforating-machine. No. 1,155,129; Sept. 28; Gaz. vol. 218; p. 1067.
- Burton, Charles H., Washington, D. C., assignor of one-half to R. Hayne, Cincinnati, Ohio. Package-tie. No. 1,127,859; Feb. 9; Gaz. vol. 211; p. 460.
- Burton, Charles S., Oak Park, Ill. Extension-table lock. No. 1,130,141; Mar. 2; Gaz. vol. 212; p. 104.
- Burton, Charles S., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Driving-gear. No. 1,147,303; July 20; Gaz. vol. 216; p. 853.
- Burton Company, The. (See Burton, George D., assignor.)
- Burton, Frank W., San Diego, Cal. Illuminated sign. No. 1,152,703; Sept. 7; Gaz. vol. 218; p. 119.
- Burton, George D., assignor to The Burton Company, Boston, Mass. Treating yarn and the like. No. 1,131,623; Mar. 9; Gaz. vol. 212; p. 651.
- Burton, George D., assignor to The Burton Company, Boston, Mass. Softening and strengthening degummed vegetable fibers. No. 1,156,462; Oct. 12; Gaz. vol. 219; p. 421.
- Burton, Irwin G., Asbury Park, N. J. Eyeglass-protector. No. 1,143,502; June 15; Gaz. vol. 215; p. 922.
- Burton, James M., Long Island City, assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 1,128,657; Feb. 16; Gaz. vol. 211; p. 786.
- Burton, James M., Long Island City, assignor to Neptune Meter Company, New York, N. Y. Separator for meters. No. 1,130,792; Mar. 9; Gaz. vol. 212; p. 366.
- Burton, James M., New York, assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 1,142,141; June 8; Gaz. vol. 215; p. 408.
- Burton, Thomas L., Pittsburgh, Pa., assignor, by mesne assignments, to The American Brake Company, St. Louis, Mo. Brake-rigging application to trucks. No. 1,148,285; July 27; Gaz. vol. 216; p. 1228.
- Burton, Thomas L., Pittsburgh, Pa., assignor, by mesne assignments, to American Brake Company, St. Louis, Mo. Brake-rigging. No. 1,166,176; Dec. 28; Gaz. vol. 221; p. 1329.
- Burton, Thomas L., Pittsburgh, Pa., assignor, by mesne assignments, to American Brake Company, St. Louis, Mo. Brake-rigging. No. 1,166,177; Dec. 28; Gaz. vol. 221; p. 1330.
- Burton, Thomas L., Pittsburgh, Pa., assignor, by mesne assignments, to American Brake Company, St. Louis, Mo. Brake-rigging. No. 1,166,178; Dec. 28; Gaz. vol. 221; p. 1330.
- Burton, Thomas L., Pittsburgh, Pa., assignor to American Brake Company, St. Louis, Mo. Clasp brake-rigging. No. 1,166,179; Dec. 28; Gaz. vol. 221; p. 1330.
- Burton, Thomas L., Pittsburgh, Pa., assignor to American Brake Company, St. Louis, Mo. Foundation brake-rigging. No. 1,166,180; Dec. 28; Gaz. vol. 221; p. 1331.
- Burton, William B., Annandale, New South Wales, Australia. Rifle-sight. No. 1,142,665; June 8; Gaz. vol. 215; p. 589.

- Burton, William M., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Safeguarding stills. No. 1,160,689; Nov. 16; Gaz. vol. 220; p. 891.
- Burtsell, Bertram W., assignor to Packard Motor Car Company, Detroit, Mich. Gear. No. 1,146,306; July 13; Gaz. vol. 216; p. 485.
- Burwell, George O., Salt Lake City, Utah, and C. M. Kurtz, Bellevue, Pa. Trolley. No. 1,154,234; Sept. 21; Gaz. vol. 218; p. 729.
- Burwell, Henrietta P., Maysville, Ky. Garment-receptacle. No. 1,123,679; Jan. 5; Gaz. vol. 210; p. 165.
- Burwell, Walter R., Inavale, Nebr. Post-mold. No. 1,125,958; Jan. 26; Gaz. vol. 210; p. 1084.
- Busbee, Ander J. (See Busbee, Thomas C., assignor.)
- Busbee, Thomas C., assignor to one-half to A. J. Busbee, Andalusia, Ala. Subsoiler. No. 1,157,295; Oct. 19; Gaz. vol. 219; p. 745.
- Buscavage, Joseph, Tamaqua, Pa. Hand-drill. No. 1,140,572; May 25; Gaz. vol. 214; p. 1112.
- Busch, Albert, Brunswick, assignor to Firm of J. A. Wuefeling, Berlin, Germany. Manufacturing lithium acetylsalicylate. No. 1,129,953; Mar. 2; Gaz. vol. 212; p. 41.
- Busch, Arthur O., Flasher, N. D. Spring-motor. No. 1,123,241; Jan. 5; Gaz. vol. 210; p. 14.
- Busch, Charles H., New York, N. Y. Door-check hinge. No. 1,134,510; Apr. 6; Gaz. vol. 213; p. 156.
- Busch, Frederic C., East Cleveland, Ohio. Faucet. No. 1,165,940; Dec. 28; Gaz. vol. 221; p. 1244.
- Busch, Gerhard, Philadelphia, Pa. Stop for tone-arms of talking-machines. No. 1,141,037; May 25; Gaz. vol. 214; p. 1272.
- Busch, Herman F., Millvale, assignor to Armstrong Cork Company, Pittsburgh, Pa. Machine for assembling bottle-stoppers. No. 1,131,325; Mar. 9; Gaz. vol. 212; p. 549.
- Busch, Herman F., Millvale, assignor to Armstrong Cork Company, Pittsburgh, Pa. Cork seal for bottle-stoppers and the like and making the same. No. 1,131,326; Mar. 9; Gaz. vol. 212; p. 550.
- Busch, Mary, McArthur, N. D. Rail chair and fastening. No. 1,132,827; Mar. 23; Gaz. vol. 212; p. 1175.
- Busch, Otto P., Marcellus, Wash. Weeder. No. 1,161,109; Nov. 23; Gaz. vol. 220; p. 1081.
- Busch, Peter P., Bedford, Ohio. Core-making machine. No. 1,150,497; Aug. 17; Gaz. vol. 217; p. 882.
- Busch-Sulzer Bros.-Diesel Engine Company. (See Büchi, Alfred, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Kägi, Emil, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Landolt, Rodolphe, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Müller, Jakob, assignor.)
- Busch, William H., Jr. (See Blanchard, George N., assignor.)
- Buschemeyer, Henry W., assignor to V. L. Buschemeyer, Louisville, Ky. Dough-mixer and process. No. 1,147,924; July 27; Gaz. vol. 216; p. 1099.
- Buschemeyer, Virginia L. (See Buschemeyer, Henry W., assignor.)
- Buschke, Charles F., Milwaukee, assignor to one-half to L. F. Snyder, Rome, Wis. Internal-combustion engine. No. 1,148,286; July 27; Gaz. vol. 216; p. 1228.
- Buschmann, Theodor E., Chemnitz, assignor to The Wanderer Werke vorm. Winkhofer & Jaenicke Akt.-Ges., Schönau, near Chemnitz, Germany. Type-writing machine. No. 1,133,096; Mar. 23; Gaz. vol. 212; p. 1272.
- Buschmann, Theodor E., Chemnitz, assignor to Wanderer Werke vorm. Winkhofer & Jaenicke Akt.-Ges., Schönau, near Chemnitz, Germany. Platen-shifting mechanism. No. 1,150,498; Aug. 17; Gaz. vol. 217; p. 882.
- Buschmann, Theodor E., assignor to Wanderer Werke, vorm. Winkhofer & Jaenicke Akt.-Ges., Chemnitz, Germany. Mechanism for type-writers for coupling the paper-cylinder to the line-spacing wheel. No. 1,152,075; Aug. 31; Gaz. vol. 217; p. 1528.
- Buschmann, Theodor E., assignor to Wanderer Werke, vorm. Winkhofer & Jaenicke Akt.-Ges., Schönau, near Chemnitz, Germany. Type-writer ribbon-shift. No. 1,165,942; Dec. 28; Gaz. vol. 221; p. 1245.
- Buse, Fritz, Terra Nova, Lulu Island, British Columbia, Canada. Grain-saving device. No. 1,143,503; June 15; Gaz. vol. 215; p. 923.
- Busenbenz, Jacob J., Grand Rapids, Mich., assignor to Differential Clock Co., Chicago, Ill. Regulator for lever time-movements. No. 1,144,026; June 22; Gaz. vol. 215; p. 1129.
- Bussey, F. L. (See Purcell, John H., assignor.)
- Busb, Charles T., et al. (See Garros, Benjamin, assignor.)
- Busb, George F., Bidwell, Ohio. Wed-cutting cultivator. No. 1,159,568; Nov. 9; Gaz. vol. 220; p. 436.
- Bush, Hazel B., Redlands, Cal. Wrench. No. 1,160,494; Nov. 16; Gaz. vol. 220; p. 818.
- Rush, Howard E., Jackson, assignor of one-third to I. E. Sherwood and one-third to P. E. McIntosh, Kalamazoo, Mich. Beading-tool for boiler-tubes. No. 1,162,681; Nov. 30; Gaz. vol. 220; p. 1672.
- Bush & Lane Piano Co. (See Lane, Walter, assignor.)
- Bush and Lane Piano Company. (See Courville, Joseph, assignor.)
- Bush, Samuel I., Edom, Va. Constructing concrete buildings. No. 1,163,210; Dec. 7; Gaz. vol. 221; p. 166.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-coupling. No. 1,132,434; Mar. 16; Gaz. vol. 212; p. 980.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-coupling. No. 1,135,963; Apr. 13; Gaz. vol. 213; p. 708.
- Bush, Thomas W., Colquitt, Ga. Combined car fender and brake. No. 1,136,586; Apr. 20; Gaz. vol. 213; p. 970.
- Bushell, Charles S., Beloit, assignor of one-half to A. M. Schroeder, Williams Bay, Wis. Device for setting band-saws. No. 1,144,889; June 29; Gaz. vol. 215; p. 1456.
- Bushey, Fillmore, St. Albans, Vt. Coupling. No. 1,131,820; Mar. 16; Gaz. vol. 212; p. 758.
- Bushnell, Benjamin P., Reeder, N. D. Sack. No. 1,149,337; Aug. 10; Gaz. vol. 217; p. 407.
- Bushong, Grover C., Maricopa, Cal. Tubing-bleeder. No. 1,150,661; Aug. 17; Gaz. vol. 217; p. 938.
- Bushwick, Nathan, Maspeth, N. Y. Folding hand-bag. No. 1,137,047; Apr. 27; Gaz. vol. 213; p. 1170.
- Bushwick, Nathan, Maspeth, N. Y. Folding hand-bag. No. 1,143,171; June 15; Gaz. vol. 215; p. 807.
- Bushyeager, Charles E., Wilkinsburg, Pa. Nut-locking washer. No. 1,162,566; Nov. 30; Gaz. vol. 220; p. 1636.
- Buskard, Samuel G., assignor of one-sixth to L. Lyons, one-sixth to F. G. Mummery, and one-sixth to H. Carpenter, Hamilton, Ontario, Canada. Trolley-wheel. No. 1,156,270; Oct. 12; Gaz. vol. 219; p. 352.
- Büsken, Joseph, Vilvorde, Belgium. Lubricating-bolt. No. 1,124,588; Jan. 12; Gaz. vol. 210; p. 530.
- Busler, Harry W., Littleton, N. H. Sharpening-machine for edge-tools. No. 1,139,485; May 18; Gaz. vol. 214; p. 694.
- Buss, Charles, Glenwinter, Pa. Combined tie and rail-fastener. No. 1,129,548; Feb. 23; Gaz. vol. 211; p. 1134.
- Buss, Clayton D., and F. Heacock, Easton, Pa. Incandescent-lamp-attaching implement. No. 1,133,613; Mar. 30; Gaz. vol. 212; p. 1493.
- Buss, John E., Wellsboro, Pa. Lid-lifter. No. 1,137,949; May 4; Gaz. vol. 214; p. 79.
- Busse, Edwin G. (See Le Beau and Busse.)
- Busse, Edwin G., and E. A. Le Beau, assignors to Chicago Railway Equipment Company, Chicago, Ill. Roller side bearing for railway-cars. No. 1,142,398; June 8; Gaz. vol. 215; p. 499.
- Busse, Edwin G., and E. A. Le Beau, assignors to Chicago Railway Equipment Company, Chicago, Ill. Roller side bearing. No. 1,148,144; July 27; Gaz. vol. 216; p. 1179.
- Busse, Edwin G., and E. A. Le Beau, assignors to Chicago Railway Equipment Company, Chicago, Ill. Roller side bearing for railway-cars. No. 1,148,145; July 27; Gaz. vol. 216; p. 1179.
- Bussey, Allan C., Minneapolis, Minn. Egg-filler. No. 1,146,749; July 13; Gaz. vol. 216; p. 640.
- Bussey, Everett E., Malden, assignor to A. P. Browne, trustee, Cambridge, Mass. Dispenser for liquid soap and the like. No. 1,129,449; Feb. 23; Gaz. vol. 211; p. 1100.
- Bustin, John F., Pasadena, Cal. Lawn-sprinkler. No. 1,126,614; Jan. 26; Gaz. vol. 210; p. 1324.
- Butcheck, August H., and A. H. Lawton, Portland, Oreg. Shaving-mug. No. 1,158,785; Nov. 2; Gaz. vol. 220; p. 132.
- Butcher, Arthur L., and H. Flick, assignors to Hayes Wheel Company, Jackson, Mich. Automatic spoke-sanding machine. No. 1,144,347; June 29; Gaz. vol. 215; p. 1270.
- Butcher, John A., York, Pa. Relief-valve. No. 1,145,671; July 6; Gaz. vol. 216; p. 243.
- Butcher, Joseph A., Dallas, Tex. Vehicle-step. No. 1,149,338; Aug. 10; Gaz. vol. 217; p. 407.
- Butcher, Joseph J., South Framingham, Mass. Wheel for vehicles. No. 1,142,487; June 8; Gaz. vol. 215; p. 530.
- Butcher, Nelson H., Detroit, Mich. Fish-trap. No. 1,161,186; Nov. 23; Gaz. vol. 220; p. 1110.
- Butcher, Ura, Athens, Ohio. Single-wheel emergency-truck. No. 1,154,287; Sept. 21; Gaz. vol. 218; p. 749.
- Butenschon, John, Anniston, Ala. Illuminated sign. No. 1,133,926; Mar. 30; Gaz. vol. 212; p. 1602.
- Butenschon, John, Anniston, Ala. Illuminated sign. No. 1,157,504; Oct. 19; Gaz. vol. 219; p. 818.
- Butkus, John A., Baltimore, Md. Freight-elevator. No. 1,163,391; Dec. 7; Gaz. vol. 221; p. 230.
- Butler, Alfred G., Valley Ford, Wash. Device for checking horses. No. 1,155,403; Oct. 5; Gaz. vol. 219; p. 28.
- Butler, Charles A., Spokane, Wash. Moving-picture machine. No. 1,152,288; Aug. 31; Gaz. vol. 217; p. 1600.
- Butler, Charles H., Oakland, Cal. Chassis. No. 1,123,481; Jan. 5; Gaz. vol. 210; p. 97.
- Butler, Charles H., Oakland, Cal. Street-sweeper. No. 1,134,586; Apr. 6; Gaz. vol. 213; p. 184.

Alphabetical list of patentees—Continued.

- Butler, Charles H., Denver, Colo. Carton. No. 1,143,250; June 15; Gaz. vol. 215; p. 836.
- Butler, Clinton C., assignor, by mesne assignments, to G. W. Dickinson, Waterloo, Iowa. Gas-producer for explosive-engines. No. 1,152,003; Aug. 31; Gaz. vol. 217; p. 1502.
- Butler, Edward E., Chattanooga, Tenn. Power-transmitting device. No. 1,149,339; Aug. 10; Gaz. vol. 217; p. 408.
- Butler, Frank, Oxnard, Cal. Spirit-level. No. 1,153,760; Sept. 14; Gaz. vol. 218; p. 531.
- Butler, Frank D., Burlington, Iowa. Valve mechanism. No. 1,157,081; Oct. 19; Gaz. vol. 219; p. 668.
- Butler, Fred E. (See Wilburn, Hugh H., assignor.)
- Butler, George F., Jacksonport, Wis. Plow. No. 1,153,025; Sept. 7; Gaz. vol. 218; p. 236.
- Butler, George H., assignor of three-eighths to G. A. Coudery, Vancouver, and one-eighth to R. Kidd, South Vancouver, British Columbia, Canada. Non-refillable bottle. No. 1,142,666; June 8; Gaz. vol. 215; p. 590.
- Butler, Howard B. (See Grubb and Butler.)
- Butler, James A., Wollaston, assignor to American Voting Machine Company, Boston, Mass. Voting-machine. No. 1,134,724; Apr. 6; Gaz. vol. 213; p. 234.
- Butler, James A., Winthrop, assignor to American Voting Machine Company, Boston, Mass. Indicator mechanism for restrictive voting. No. 1,155,041; Sept. 28; Gaz. vol. 218; p. 1033.
- Butler, James A., Winthrop, assignor to American Voting Machine Company, Boston, Mass. Controlling device for voting-machines and the like. No. 1,156,028; Oct. 5; Gaz. vol. 219; p. 244.
- Butler, James W. (See Roberts and Butler.)
- Butler, Joseph C., Pomona, Cal. Motor-car signal. No. 1,152,704; Sept. 7; Gaz. vol. 218; p. 119.
- Butler, Louis W., New York, N. Y. Automatic focusing device. No. 1,142,767; June 8; Gaz. vol. 215; p. 625.
- Butler, Ossie H., Chicago, Ill. Paring-knife. No. 1,133,228; Mar. 23; Gaz. vol. 212; p. 1317.
- Butler, Paul, Lowell, Mass., assignor to United States Cartridge Company. Constructing packages. No. 1,152,598; Sept. 7; Gaz. vol. 218; p. 80.
- Butler, Paul, Lowell, Mass., assignor to United States Cartridge Company. Cartridge. No. 1,153,860; Sept. 14; Gaz. vol. 218; p. 569.
- Butler, Silas E., assignor to The National Paper Box Company, Toledo, Ohio. Box. No. 1,146,307; July 13; Gaz. vol. 216; p. 485.
- Butler, Solomon S., Nashville, Tenn. Lock. No. 1,158,630; Nov. 2; Gaz. vol. 220; p. 78.
- Butler, William F., Indianapolis, Ind., assignor to Sanitary Can Company, New York, N. Y. Can-had-flange curling and coating machine. No. 1,152,395; Sept. 7; Gaz. vol. 218; p. 5.
- Butler, William F., Indianapolis, Ind., assignor to Sanitary Can Company, New York, N. Y. Can-body-flanging machine. No. 1,161,923; Nov. 30; Gaz. vol. 220; p. 1415.
- Butler, William G., Wilkes-Barre, Pa. Adjustable socket-wrench. No. 1,140,947; May 25; Gaz. vol. 214; p. 1243.
- Butler, Wilson W., *et al.* (See Burnett, Richard W., assignor.)
- Butman, Fred L., *et al.* (See Bergstrom, Edward F., assignor.)
- Buttafoco, Alfredo, Chicago Heights, Ill. Windmill. No. 1,144,932; June 29; Gaz. vol. 215; p. 1469.
- Butte, Emile, Warren Point, N. J. Composition of matter for weighting silk yarns and fabrics. No. 1,154,174; Sept. 21; Gaz. vol. 218; p. 710.
- Butterfield, Arthur W., St. Louis, Mo. Oil-vaporizer. No. 1,129,845; Mar. 2; Gaz. vol. 212; p. 5.
- Butterfield, Charles S., San Francisco, Cal. Clothes-pin. No. 1,147,305; July 20; Gaz. vol. 216; p. 854.
- Butterfield, Edward J., Chamberlain, S. D. Shipping-receptacle. No. 1,157,206; Oct. 19; Gaz. vol. 219; p. 712.
- Butterfield, Eugene M., administrator. (See Butterfield, Frank E.)
- Butterfield, Frank E., deceased, Wakefield; E. M. Butterfield, administrator, Waltham, Mass., assignor to Beckwith Box-Toe Company, Dover, N. H. Box-toe and blank therefor. No. 1,124,694; Jan. 12; Gaz. vol. 210; p. 568.
- Butters, Charles. (See Hamilton, Edward M., assignor.)
- Butters, Charles, Oakland, Cal. Filter. No. 1,136,363; Apr. 20; Gaz. vol. 213; p. 1067.
- Butters, Charles, Oakland, Cal. Filter. No. 1,165,068; Dec. 21; Gaz. vol. 221; p. 901.
- Butterworth, Charles F., *et al.* (See Fuller, Eugene, assignor.)
- Butterworth, George H., and R. Canlin, Great Crosby, near Liverpool, England. Fire-bridge for boiler or like furnaces. No. 1,137,048; Apr. 27; Gaz. vol. 213; p. 1171.
- Butterworth, Joseph, Indianapolis, Ind. Convertible motor-vehicle. No. 1,132,435; Mar. 16; Gaz. vol. 212; p. 981.
- Butterworth, Joseph A., assignor to Herbert Morris Limited, Loughborough, England. Worm-gear hoisting machinery. No. 1,128,754; Feb. 16; Gaz. vol. 211; p. 818.
- Butterworth, Samuel D., Lansing, Mich. Clamp. No. 1,127,585; Feb. 9; Gaz. vol. 211; p. 362.
- Buttler, William, Indianapolis, Ind. Combination kitchen-cabinet and stove. No. 1,153,597; Sept. 14; Gaz. vol. 218; p. 477.
- Buttles, Augustus H., assignor to Luedke-Schaefer-Buttles Co., Milwaukee, Wis. Shoe construction. No. 1,139,014; May 11; Gaz. vol. 214; p. 494.
- Buttles, Gilbert W., Appleton, Wis. Mechanism for producing an oscillating movement to a shaft. No. 1,152,368; Aug. 31; Gaz. vol. 217; p. 1630.
- Buttner, Julius C., and F. J. Merklein, Brooklyn, N. Y. Stereopticon-dissolver for moving-picture machines. No. 1,144,108; June 22; Gaz. vol. 215; p. 1158.
- Button Machinery Company, The. (See Zuleg, Joseph, assignor.)
- Button, Miladore A., Lamar, Mo. Circuit-closer. No. 1,148,750; Aug. 3; Gaz. vol. 217; p. 96.
- Button, Samuel S., and J. A. McTaggart, Hanston, Kans. Weed-cutter attachment for hand-cars. No. 1,160,838; Nov. 16; Gaz. vol. 220; p. 942.
- Button, William N., assignor of one-half to W. Lunnie, Providence, R. I. Window-blind catch. No. 1,131,206; Mar. 9; Gaz. vol. 212; p. 508.
- Buttress, George, assignor to American Holding Company, Los Angeles, Cal. Street-indicator for cars. No. 1,153,421; Sept. 14; Gaz. vol. 218; p. 413.
- Buttress, Joseph A., Los Angeles, Cal. Fumigator and disinfecter. No. 1,147,306; July 20; Gaz. vol. 216; p. 854.
- Butts, Daniel C. (See Menger, Joseph R. W., assignor.)
- Butts, Daniel G., assignor to The Ivory Garter Company, New Orleans, La. Garment-supporter. No. 1,150,993; Aug. 24; Gaz. vol. 217; p. 1110.
- Butts, Daniel G., assignor to The Ivory Garter Company, New Orleans, La. Garment-supporter. No. 1,156,835; Oct. 12; Gaz. vol. 219; p. 551.
- Butts, Frank E., Chicago, Ill. Radiator-fitting. No. 1,160,839; Nov. 16; Gaz. vol. 220; p. 942.
- Butts, James L., Chester, assignor of one-half to L. M. Johnson, Norwood, Pa. Safety-valve. No. 1,150,743; Aug. 17; Gaz. vol. 217; p. 966.
- Butts, John W., Atlanta, Ga. Pipe-fitting. No. 1,126,386; Jan. 26; Gaz. vol. 210; p. 1240.
- Butts, John W., Atlanta, Ga. Water system. No. 1,136,406; Apr. 20; Gaz. vol. 213; p. 907.
- Butts, Newton M., and C. L. Haworth, Wilmington, Ohio. Brush for bolting-machines. No. 1,135,762; Apr. 13; Gaz. vol. 213; p. 637.
- Buttschau, William J. (See Hopkins, Arthur C., assignor.)
- Butusov, William P., assignor of one-half to J. M. Lopez, Blosi, Miss. Garment. No. 1,154,842; Sept. 28; Gaz. vol. 218; p. 966.
- Butz, Clarence, Muscatine, Iowa. Ham presser and cooker. No. 1,165,223; Dec. 21; Gaz. vol. 221; p. 957.
- Butz, Walter H., and J. McCarthy, Plainfield, N. J., assignors to Q. & C. Company. Portable rail-saw. No. 1,151,340; Aug. 24; Gaz. vol. 217; p. 1227.
- Butzen, Thomas F., and M. W. Kingsley, Milwaukee, Wis. Electric work-light. No. 1,129,846; Mar. 2; Gaz. vol. 212; p. 5.
- Buuck, Christian D. C., Hoagland, Ind. Towing apparatus. No. 1,129,380; Feb. 23; Gaz. vol. 211; p. 1075.
- Buuck, Christian D. C., Hoagland, Ind. Towing apparatus. No. 1,157,674; Oct. 26; Gaz. vol. 219; p. 939.
- Buxton, Warner R., Springfield, Mass. Polishing outfit. No. 1,146,130; July 13; Gaz. vol. 216; p. 424.
- Buxton, Warner R., Springfield, Mass. Collar-container. No. 1,159,743; Nov. 9; Gaz. vol. 220; p. 500.
- Buzard, Edmird D., Pittsburgh, Pa. Fruit-picker. No. 1,133,927; Mar. 30; Gaz. vol. 212; p. 1602.
- Buzard, Jacob M., Pittsburgh, E. P. Cole, Coraopolis, and F. H. Haslage, Pittsburgh, Pa. Protecting device for air-brake-pipe couplings. No. 1,154,481; Sept. 21; Gaz. vol. 218; p. 815.
- Buzuk, Constantine M., New York, N. Y. Flotation-belt for vessels. No. 1,124,208; Jan. 5; Gaz. vol. 210; p. 345.
- Buzzard, George M. (See McConaughy, Hugh, assignor.)
- Byam, George F. (See Wilcox and Byam.)
- Byam Tire and Rim Company. (See Byam, William W., assignor.)
- Byam, William W., Chicago, Ill., assignor to Byam Tire and Rim Company. Wheel. No. 1,127,729; Feb. 9; Gaz. vol. 211; p. 413.
- Byam, William W., Chicago, Ill., assignor to Byam Tire and Rim Company. Wheel. No. 1,130,886; Mar. 9; Gaz. vol. 212; p. 398.
- Byars, Leonidas P. (See Strahle, Arthur L., assignor.)
- Byars, William R. (See Riley, Joseph J., assignor.)
- Bye, Mortimer, assignor to The Eli Lilly and Company, Indianapolis, Ind. Inhaler. No. 1,134,993; Apr. 13; Gaz. vol. 213; p. 370.
- Bye, Mortimer, assignor to The Eli Lilly & Company, Indianapolis, Ind. Closure for containers. No. 1,163,888; Dec. 14; Gaz. vol. 221; p. 449.
- Byerlein, Erle J., Saginaw, Mich. Molding-flask. No. 1,159,469; Nov. 9; Gaz. vol. 220; p. 402.
- Byers, Firm B., New York, N. Y. Splice-bar or holder. No. 1,162,976; Dec. 7; Gaz. vol. 221; p. 84.
- Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Door-hanging mechanism. No. 1,126,955; Feb. 2; Gaz. vol. 211; p. 101.

Alphabetical list of patentees—Continued.

- Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-door bracket. No. 1,156,587; Oct. 12; Gaz. vol. 219; p. 464.
- Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Track-fastener. No. 1,164,620; Dec. 14; Gaz. vol. 221; p. 703.
- Byington, James A., Jacksonville, Fla. Fruit-drying machine. No. 1,158,980; Nov. 2; Gaz. vol. 220; p. 198.
- Byram Foundry Company. (See Farris, Harry W., assignor.)
- Byram, Gertrude J. (See Byram, Theodore P., assignor.)
- Byram, Joseph L., Clements, Kans. Itake-cleaner. No. 1,140,663; May 25; Gaz. vol. 214; p. 1143.
- Byram, Theodore P., assignor to G. J. Byram, Detroit, Mich. Ladle-bowl. No. 1,150,994; Aug. 24; Gaz. vol. 217; p. 1110.
- Byram, William F., and R. P. Phronebarger, Charlotte, N. C. Current-supply system for electric railways. No. 1,134,371; Apr. 6; Gaz. vol. 213; p. 105.
- Byrd, John M., Hazlehurst, Ga. Spike. No. 1,154,482; Sept. 21; Gaz. vol. 218; p. 815.
- Byrd, Thomas M., Raleigh, N. C. Folding ironing-board. No. 1,155,884; Oct. 5; Gaz. vol. 219; p. 195.
- Byrne, Clare, Wagner, S. D. Spring-wheel. No. 1,150,995; Aug. 24; Gaz. vol. 217; p. 1111.
- Byrne, Michael H., Ashland, Wis. Loading apparatus. No. 1,144,460; June 29; Gaz. vol. 215; p. 1309.
- Byrne, Thomas W., Los Angeles, Cal. Direction-indicator for vehicles. No. 1,127,730; Feb. 9; Gaz. vol. 211; p. 413.
- Byrnes, Clarence P., Sewickley, Pa. Forming glass vacuum-receptacles. No. 1,127,381; Feb. 2; Gaz. vol. 211; p. 249.
- Byrnes, Clarence P., Sewickley, Pa. Vacuum-bottle. No. 1,130,255; Mar. 2; Gaz. vol. 212; p. 143.
- Byrnes, Clarence P., Sewickley, Pa. Drawing glass. No. 1,141,932; June 8; Gaz. vol. 215; p. 334.
- Byrnes, Clarence P., Sewickley, Pa. Apparatus for cooling automobile-tires. No. 1,159,894; Nov. 9; Gaz. vol. 220; p. 555.
- Byrnes, Clarence P., Sewickley, Pa. Spring-cushion device. No. 1,162,283; Nov. 30; Gaz. vol. 220; p. 1541.
- Byrnes, Clarence P., Sewickley, Pa. Heat-insulating material. No. 1,162,450; Nov. 30; Gaz. vol. 220; p. 1597.
- Byrnes, Clarence P., Sewickley, and J. R. Heller, Pittsburgh, Pa. Credit-register. No. 1,145,552; July 6; Gaz. vol. 216; p. 202.
- Byrnes, William M., Vall, Iowa. Telephone apparatus. No. 1,131,598; Mar. 9; Gaz. vol. 212; p. 642.
- Byrns, Harry, assignor of one-half to W. F. Condon, Hamilton, Ontario, Canada. Apparatus for raising submerged bodies. No. 1,164,067; Dec. 14; Gaz. vol. 221; p. 512.
- Byron, David R., Philadelphia, Pa. Lumb-bob-point protector and cord-holder. No. 1,147,304; July 20; Gaz. vol. 216; p. 853.
- Byron, Hagar B., assignor, by mesne assignments, of one-third to A. H. Adams, A. E. Pickard, and J. L. Jackson, Chicago, Ill. Apparatus for producing a round or relief effect by photography. No. 1,154,232; Sept. 21; Gaz. vol. 218; p. 729.
- Byron, Hagar B., assignor, by mesne assignments, of one-third to A. H. Adams, A. E. Pickard, and J. L. Jackson, Chicago, Ill. Kinetographic apparatus. No. 1,154,233; Sept. 21; Gaz. vol. 218; p. 729.
- Byron Jackson Iron Works. (See Czajkowski, Alexander, assignor.)
- Byron Jackson Iron Works. (See Paulsmeler, Albert C., assignor.)
- Byron, Thomas F., Chicago, Ill. Drapery-hanger. No. 1,149,628; Aug. 10; Gaz. vol. 217; p. 512.
- Byron, Thomas F., Chicago, Ill. Drapery-hanger. No. 1,160,573; Nov. 16; Gaz. vol. 220; p. 846.
- Byrum, Eli, Canton, Ill. Window-cabinet. No. 1,151,863; Aug. 31; Gaz. vol. 217; p. 1455.
- Bytheway, John G. (See North, McCauley, and Bytheway.)
- C. Kurtzmann & Co. (See Higel, Otto, assignor.)
- C. Mattison Machine Works. (See Baukin, Peter, assignor.)
- C. Mattison Machine Works. (See Clemons, De Laski T., assignor.)
- C. Mattison Machine Works. (See Mattison, Carl L., assignor.)
- C. A. Dunham Co. (See Dunham, Clayton A., assignor.) (Reissue.)
- C. A. Dunham Company. (See Dunham, Clayton A., assignor.)
- C. A. Lawton Company, The. (See Lawton, Charles A., assignor.)
- C. A. P. Turner Company. (See Turner, Claude A. P., assignor.)
- C. B. Cottrell & Sons Company. (See Barber, Howard M., assignor.)
- C. B. Cottrell & Sons Company. (See Cottrell, Charles P., assignor.)
- C. B. Cottrell & Sons Company. (See McKee, Milton A., assignor.)
- C. C. Fouts Company, The. (See Fouts, Calvin C., assignor.)
- C. C. Morgan Company, The. (See Morgan, Charles C., assignor.)
- C. C. Morgan Company, The. (See Morgan and Wright, assignors.)
- C. F. Burgess Laboratories. (See Burgess, Charles F., assignor.)
- C. F. Pease Company, The. (See Pease, Charles F., assignor.)
- C. F. Pease Company, The. (See Pease and Green, assignors.)
- C. G. Conn, Inc. (See Hardy, Paul C., assignor.)
- C. & G. Cooper Co., The. (See Thiel, Martin A., assignor.)
- C. G. Sargent's Sons Corporation. (See Sargent, Allan C., assignor.)
- C. G. Sargent's Sons Corporation. (See Sargent, Frederick G., assignor.)
- C. G. Sargent's Sons Corporation. (See Sargent and Brooks, assignors.)
- C. G. Sargent's Sons Corporation. (See Swain, Fred W., assignor.)
- C. H. Driver & Kerr Co. (See Driver, Charles H., assignor.)
- C. H. Wheeler Manufacturing Company. (See Platt, Thomas M., assignor.)
- C. H. Wheeler Manufacturing Company. (See Pratt, Louis L., assignor.)
- C. H. & E. Manufacturing Company. (See Nydegger, Adolph, assignor.)
- C. J. White Manufacturing Company, The. (See White, Charles J., assignor.)
- C. M. Hall Lamp Company. (See Anklam, William F., assignor.)
- C. M. Hall Lamp Company. (See Grandy, Levett T., assignor.)
- C. O. Bartlett & Snow Company, The. (See Chinnock, James E., assignor.)
- C. O. Bartlett & Snow Company, The. (See Dupuy, Arthur O., assignor.)
- C. R. Carver Company. (See Lockwood, Edward M., assignor.)
- C. & S. Rubber Sole Company. (See Crawford, Harvey F., assignor.)
- C. T. Ham Manufacturing Company. (See Bergener, Charles, assignor.)
- C. T. Ham Manufacturing Company. (See Pomeroy, Benjamin H., assignor.)
- C. W. Ferguson Collar Company. (See Gardner, John W., assignor.)
- C. W. Raymond Company, The. (See Mumma, George R., assignor.)
- Cabelinsky, Julius L., Boston, Mass. Machine-casing. No. 1,162,220; Nov. 30; Gaz. vol. 220; p. 1518.
- Cabell, John L., Savannah, Ga. Special receptacle. No. 1,155,791; Oct. 5; Gaz. vol. 219; p. 163.
- Cabinet Spring-Seal Company. (See Parker, Fred G., assignor.)
- Cable Company, The. (See Belfield, Andrew M., assignor.)
- Cable Company, The. (See Benson, Ralph G., assignor.)
- Cable Company, The. (See Hagey, James C., assignor.)
- Cable Company, The. (See Klugh, Paul B., assignor.)
- Cable, James R., assignor to P. Petersen, Toledo, Ohio. Safety-valve for fluid-pressure mains. No. 1,139,952; May 18; Gaz. vol. 214; p. 858.
- Cabot, Godfrey L., Boston, Mass. Means for handling and transporting liquid gas. No. 1,140,250; May 18; Gaz. vol. 214; p. 963.
- Cabot, Godfrey L., Cambridge, Mass. Apparatus for making carbon-black. No. 1,162,131; Nov. 30; Gaz. vol. 220; p. 1488.
- Cabral, Daniel, Guadalajara, Mexico. Apparatus for pumping water from wells. No. 1,164,989; Dec. 21; Gaz. vol. 221; p. 875.
- Cade, John T., Arcola, N. J., assignor to Federal Signal Company. System for vehicle control. No. 1,140,356; May 25; Gaz. vol. 214; p. 1034.
- Cadenel, Louis, Paris, France. Electrically-controlled lock. No. 1,165,943; Dec. 28; Gaz. vol. 221; p. 1245.
- Cadett, James W. T., Ashstead, England. Carbureter. No. 1,165,224; Dec. 21; Gaz. vol. 221; p. 958.
- Cadle, Charles L., Rochester, N. Y., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Converter. No. 1,129,330; Feb. 23; Gaz. vol. 211; p. 1057.
- Cadwgan, Thomas C., Springfield, Ohio. Grinding-mill. No. 1,144,689; June 29; Gaz. vol. 215; p. 1385.
- Cady, Frank P., assignor to The Cady Patent Appliance Company, Cleveland, Ohio. Lifting device for motor-vehicles. No. 1,133,703; Mar. 30; Gaz. vol. 212; p. 1526.
- Cady, Fred B., et al. (See Clemons, James H., assignor.)
- Cady Patent Appliance Company, The. (See Cady, Frank P., assignor.)
- Cady, William M., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic train-stop device. No. 1,131,207; Mar. 9; Gaz. vol. 212; p. 508.
- Caesar, John. (See Morris, William S., assignor.)
- Caffrey, Walter T. (See Marsh, George H., assignor.)
- Caffisch, Ernest L., Clymer, N. Y. Sled. No. 1,135,256; Apr. 13; Gaz. vol. 213; p. 460.
- Cage, John M., assignor to L. A. Submarine Boat Company, Long Beach, Cal. Submarine. No. 1,126,616; Jan. 20; Gaz. vol. 210; p. 1325.

Alphabetical list of patentees—Continued.

- Cahill, Daniel, Piqua, Ohio. Union suit. No. 1,129,331; Feb. 23; Gaz. vol. 211; p. 1057.
- Cahill, Harry C., Akron, Ohio. Repeater for telegraph-lines. No. 1,152,877; Sept. 7; Gaz. vol. 218; p. 183.
- Cahill, Henry D., assignor to Frank W. Whitchee Company, Boston, Mass. Tool for stripping insulation-covering from electric wires. No. 1,153,286; Sept. 14; Gaz. vol. 218; p. 363.
- Cahill, Leo F., Elmira, N. Y. Brick-tongs. No. 1,135,992; Apr. 20; Gaz. vol. 213; p. 760.
- Cahill, Mortimer, assignor of one-half to H. A. Morey, Oklahoma, Okla. Clothes-line stretcher. No. 1,136,096; Apr. 20; Gaz. vol. 213; p. 794.
- Cahill, Patrick J., Utica, N. Y. Unsinkable ship. No. 1,133,928; Mar. 30; Gaz. vol. 212; p. 1603.
- Cahn, Edgar B., Far Rockaway, N. Y. Hosiery. No. 1,136,097; Apr. 20; Gaz. vol. 213; p. 794.
- Cahn, Louis D., New York, N. Y. Handle for culinary vessels. No. 1,155,792; Oct. 5; Gaz. vol. 219; p. 163.
- Cahusac, Clarence N., assignor to Western Electric Company, New York, N. Y. Testing apparatus. No. 1,125,462; Jan. 19; Gaz. vol. 210; p. 876.
- Caille Brothers Company, The. (See Vanderziel and Goodall, assignors.)
- Caillouette, Alcée, assignor of one-half to J. Caillouette, Jr., Central, La. Device for connecting blades to snathes. No. 1,130,666; Mar. 2; Gaz. vol. 212; p. 289.
- Caillouette, Joseph, Jr. (See Caillouette, Alcée, assignor.)
- Cain, Fred L., and C. J. Dorff, assignors to Harvard Electric Company, Chicago, Ill. Outlet-box hanger. No. 1,133,535; Mar. 30; Gaz. vol. 212; p. 1464.
- Cain, John R. (See Cain, William R. and J. R.)
- Cain, William R. and J. R., Houston, Tex. Cheese-hoop. No. 1,133,261; Mar. 30; Gaz. vol. 212; p. 1365.
- Cain, William W., Fowler, Kans. Wind-wheel. No. 1,127,400; Feb. 9; Gaz. vol. 211; p. 297.
- Caine, James C., assignor of one-half to The New England Electric Company, Denver, Colo. Outlet-box bracket. No. 1,156,885; Oct. 19; Gaz. vol. 219; p. 598.
- Caire, Philippe. (See Balachowsky and Caire.)
- Cairns, John, Willenhall, South Staffs, England. Tire for vehicle-wheels. No. 1,143,102; June 15; Gaz. vol. 215; p. 783.
- Cairns, John, Hove, Brighton, England. Vehicle-tire. No. 1,165,845; Dec. 28; Gaz. vol. 221; p. 1211.
- Caister, Caleb C. (See Caister, Israel H., assignor.)
- Caister, Israel H., Burbank, assignor of one-half to C. C. Caister, Los Angeles, Cal. Lawn-mower. No. 1,144,690; June 29; Gaz. vol. 215; p. 1386.
- Cake, Horace M., Washington, D. C. Forming bottle-caps. No. 1,131,676; Mar. 16; Gaz. vol. 212; p. 705.
- Calahan, Edward L., Clifton, N. J. Packaging device. No. 1,136,505; Apr. 20; Gaz. vol. 213; p. 941.
- Calden, Fred W., Burlington, Vt. Camera. No. 1,134,725; Apr. 6; Gaz. vol. 213; p. 235.
- Calderwood, Benjamin C., Valley Falls, R. I., assignor to Price-Campbell Cotton Picker Corporation, New York, N. Y. Picking mechanism for cotton-picking machines. No. 1,161,611; Nov. 23; Gaz. vol. 220; p. 1260.
- Caldwell, Andrew H., Port Byron, N. Y. Valve. No. 1,123,844; Jan. 5; Gaz. vol. 210; p. 220.
- Caldwell, Andrew H., Port Byron, N. Y. Pipe-clamp. No. 1,142,235; June 8; Gaz. vol. 215; p. 431.
- Caldwell, Burr H., Niagara Falls, N. Y. Shutter apparatus for motion-picture-projecting machines. No. 1,160,495; Nov. 16; Gaz. vol. 220; p. 818.
- Caldwell, Charles A., Dallas, Tex. Sealing device for cocks. No. 1,158,631; Nov. 2; Gaz. vol. 220; p. 78.
- Caldwell & Co., E. F. (See Ainsworth, George R., assignor.)
- Caldwell, Edmund R. (See Housel, Joseph M., assignor.)
- Caldwell, Edwin D., Dunkirk, N. Y. Brake-gear for motor-vehicles. No. 1,124,291; Jan. 12; Gaz. vol. 210; p. 423.
- Caldwell, Edwin D., Dunkirk, N. Y. Motor-vehicle axle. No. 1,130,065; Mar. 2; Gaz. vol. 212; p. 78.
- Caldwell, Eugene S., Philadelphia, Pa. Thermostatic valve. No. 1,149,182; Aug. 10; Gaz. vol. 217; p. 349.
- Caldwell, Eugene W., New York, N. Y. Photographic developing apparatus. No. 1,141,314; June 1; Gaz. vol. 215; p. 81.
- Caldwell, Frank, Cincinnati, Ohio. Spray-burner. No. 1,152,144; Aug. 31; Gaz. vol. 217; p. 1551.
- Caldwell, George, Philadelphia, Pa. Manhole-cover. No. 1,131,327; Mar. 9; Gaz. vol. 212; p. 550.
- Caldwell, George W., Philadelphia, Pa. Facial steamer or bath. No. 1,148,953; Aug. 3; Gaz. vol. 217; p. 165.
- Caldwell, Gilbert W., Gay, Ga. Separator. No. 1,157,756; Oct. 26; Gaz. vol. 219; p. 968.
- Caldwell, John C., Beaumont, Tex. Water-craft. No. 1,137,695; Apr. 27; Gaz. vol. 213; p. 1397.
- Caldwell, John J., Oconto, Wis. Trap-nest. No. 1,149,340; Aug. 10; Gaz. vol. 217; p. 408.
- Caldwell, Paul F., Los Angeles, Cal. Portable rabbit hutch. No. 1,159,744; Nov. 9; Gaz. vol. 220; p. 500.
- Caldwell, Robert J. (See Blake and Caldwell.)
- Caldwell, Ward, Dekalb county, near Leland, Ill. Nut-lock. No. 1,127,586; Feb. 9; Gaz. vol. 211; p. 362.
- Caldwell, Ward, Dekalb county, near Leland, Ill. Detachable head for connecting rods or bolts. No. 1,133,428; Mar. 30; Gaz. vol. 212; p. 1426.
- Caldwell, William F., assignor of one-half to J. A. Riggs, Hot Springs, Ark. Indicator. No. 1,139,486; May 18; Gaz. vol. 214; p. 694.
- Caldwell, William F., assignor to J. A. Riggs, Hot Springs, Ark. Automatic fire-alarm. No. 1,152,932; Sept. 7; Gaz. vol. 218; p. 203.
- Calef, Harry G., Haverhill, Mass. Shank for shoes. No. 1,154,690; Sept. 28; Gaz. vol. 218; p. 916.
- Caler, David R., deceased, Beaver, Pa.; M. J. Caler, administratrix. Window. No. 1,149,024; Aug. 3; Gaz. vol. 217; p. 191.
- Caler, Francis M., Inglewood, Cal. Wall-bed. No. 1,164,594; Dec. 14; Gaz. vol. 221; p. 694.
- Caler, Mary J., administratrix. (See Caler, David R., assignor.)
- Calfin Engineering Company, The. (See Watson, Harry C., assignor.)
- Calhoun, Tilmon J., Monroe, La. Wrench. No. 1,154,612; Sept. 23; Gaz. vol. 218; p. 889.
- Calhoun, Andrew S., East Liverpool, Ohio. Drill-jar. No. 1,154,483; Sept. 21; Gaz. vol. 218; p. 816.
- Calhoun, Curtis S., Decatur, Ill. Hand truck. No. 1,139,636; May 18; Gaz. vol. 214; p. 747.
- Calhoun, Harry L., Iowa, Ill. Syringe. No. 1,123,990; Jan. 5; Gaz. vol. 210; p. 268.
- Calhoun, John W., Huntington, W. Va. Water-meter setting or connection. No. 1,142,667; June 8; Gaz. vol. 215; p. 590.
- Calhoun, Lawrence V. (See Ewell and Calhoun.)
- Calhoun, Van, Chandler, Ariz. Harrow. No. 1,148,352; July 27; Gaz. vol. 216; p. 1253.
- California Corrugated Culvert Company. (See Thorsby, Karl J., assignor.)
- California Fruit Canners Association. (See Olsen, John A., assignor.)
- California Macvan Co. (See Vandercook, Albert E., assignor.)
- California Pharmacy Company. (See Breyfogle, William L., assignor.)
- California Pipe Line Machine Co. (See Mahoney and Norris, assignors.)
- California Retarder & Fibre Company. (See Strauss, Dennis Y., assignor.)
- California Valve and Air Brake Company. (See Neal, Spencer G., assignor.)
- Calkins, Fred D., and A. C. Johnson, Sunnyvale, Cal. Internal-combustion engine. No. 1,134,726; Apr. 6; Gaz. vol. 213; p. 235.
- Calkins, Fred D., and A. C. Johnson, Sunnyvale, Cal. Internal-combustion engine. No. 1,156,663; Oct. 12; Gaz. vol. 219; p. 493.
- Call, Ira A., assignor to Call Switch Company, Denver, Colo. Railway-switch. No. 1,138,006; May 4; Gaz. vol. 214; p. 308.
- Call Switch Company. (See Call, Ira A., assignor.)
- Callahan, Charles K., et al. (See O'Brien, James D., assignor.)
- Callahan, Charles M., Worcester, Mass. Casket. No. 1,148,828; Aug. 3; Gaz. vol. 217; p. 124.
- Callahan, John, Lynn, Mass. Presser-foot. No. 1,154,373; Sept. 21; Gaz. vol. 218; p. 780.
- Callahan, Louis P., Westfield, Mass. Body-supporter. No. 1,164,333; Dec. 14; Gaz. vol. 221; p. 604.
- Callahan, Mark A., Cleveland, Ohio. Beach-forming jetty. No. 1,137,049; Apr. 27; Gaz. vol. 213; p. 1171.
- Callahan, Patrick J., Spokane, Wash. Knife-sharpener. No. 1,134,587; Apr. 6; Gaz. vol. 213; p. 184.
- Callan, Christopher B., Austin, Tex. Attachment for lino-type-machines. No. 1,132,557; Mar. 23; Gaz. vol. 212; p. 1073.
- Callan, John G., Boston, Mass., assignor to General Electric Company. Governing mechanism for mixed-pressure turbines. No. 1,159,174; Nov. 2; Gaz. vol. 220; p. 265.
- Callanan, James T. (See Miller, Frank L., assignor.)
- Callane, Waldo E., Lebanon, Ind. Centrifugal cream-separator. No. 1,136,654; Apr. 20; Gaz. vol. 213; p. 994.
- Callaway, William, Wichita, Kans. Clip. No. 1,135,353; Apr. 13; Gaz. vol. 213; p. 493.
- Callender, Edwin F., assignor of one-half to L. B. Callender, Galesburg, Ill. Insulating-tube. No. 1,158,105; Oct. 26; Gaz. vol. 219; p. 1091.
- Callender, L. Belle. (See Callender, Edwin F., assignor.)
- Callender, Ward G., Mansfield, Ohio. Shoe-cleaner. No. 1,156,751; Oct. 12; Gaz. vol. 219; p. 522.
- Callery, George F., assignor of one-third to F. C. Crofts and one-third to N. G. Behles, Chicago, Ill. Collapsible box. No. 1,158,632; Nov. 2; Gaz. vol. 220; p. 79.
- Calleson, Amos, New York, N. Y. Rlm-tool. No. 1,140,023; May 18; Gaz. vol. 214; p. 884.
- Calleson, Amos, assignor to R. Adriance, Brooklyn, N. Y. Bottle-support for bottle-sealing machines. No. 1,142,078; June 8; Gaz. vol. 215; p. 385.
- Calleson, Amos, assignor to R. Adriance, Brooklyn, N. Y. Bottle-sealing machine. No. 1,153,174; Sept. 7; Gaz. vol. 218; p. 285.
- Callow, Herschel L. (See Callow, John and H. L.)
- Callow, John, Liverpool, England. Apparatus for proving dough. No. 1,130,568; Mar. 2; Gaz. vol. 212; p. 255.
- Callow, John, Liverpool, England. Apparatus for molding, shaping, and compressing dough and the like plastic materials. No. 1,131,328; Mar. 9; Gaz. vol. 212; p. 550.

- Callow, John and H. L., Liverpool, England. Apparatus for dividing and molding dough and other plastic material. No. 1,131,329; Mar. 9; Gaz. vol. 212; p. 551.
- Callow, John M., Salt Lake City, Utah, assignor to Metals Recovery Company, Augusta, Me. Ore-concentrating apparatus. No. 1,124,853; Jan. 12; Gaz. vol. 210; p. 624.
- Callow, John M., Salt Lake City, Utah, assignor to Metals Recovery Company, Augusta, Me. Rotary mixing-drum. No. 1,124,854; Jan. 12; Gaz. vol. 210; p. 625.
- Callow, John M., Salt Lake City, Utah, assignor to Metals Recovery Company, Augusta, Me. Ore-rotation apparatus. No. 1,124,856; Jan. 12; Gaz. vol. 210; p. 626.
- Callow, John M., Salt Lake City, Utah, assignor to Metals Recovery Company, Augusta, Me. Concentrating ores. No. 1,125,897; Jan. 19; Gaz. vol. 210; p. 1030.
- Callow, John M., Salt Lake City, Utah, assignor, by mesne assignments, to Metals Recovery Company. Ore-concentrating apparatus. No. 1,141,377; June 1; Gaz. vol. 215; p. 104.
- Callow, John M., and D. J. Kelly, Salt Lake City, Utah, assignors to Metals Recovery Company, Augusta, Me. Ore-separatory apparatus. No. 1,124,855; Jan. 12; Gaz. vol. 210; p. 625.
- Calnan, William H., Clinton, Iowa. Portable distributing-machine. No. 1,139,844; May 18; Gaz. vol. 214; p. 820.
- Caloy, James J., assignor of two-fifths to F. Genomi, St. Louis, Mo. Rail. No. 1,125,463; Jan. 19; Gaz. vol. 210; p. 877.
- Calthrop, Everard R., London, England. Parachute. No. 1,165,846; Dec. 28; Gaz. vol. 221; p. 1211.
- Calumet Steel Company. (See Gillespie, Alexander W., assignor.)
- Calumet Steel Company. (See Porter, Sidney S., assignor.)
- Calvert, Frank W. (See Hamilton and Calvert.)
- Calvert, Frank W., Narberth, assignor to The Charles E. Hires Company, Philadelphia, Pa. Dispensing apparatus. No. 1,144,890; June 29; Gaz. vol. 215; p. 1456.
- Calvert, Frank W., Narberth, Pa., assignor to Scott Paper Company. Dispensing-cabinet for toilet purposes. No. 1,163,737; Dec. 14; Gaz. vol. 221; p. 396.
- Calvert, George, London, England. Hydrogenization of oils. No. 1,142,608; June 8; Gaz. vol. 215; p. 591.
- Calvert, Osceola, et al. (See Pearson, James H., assignor.)
- Calvert, Sebastian L., Coweta, assignor of one-half to C. F. Leech, Bartlesville, Okla. Pump. No. 1,160,840; Nov. 16; Gaz. vol. 220; p. 942.
- Calvert, Sebastian L., assignor of one-half to C. F. Leech, Bartlesville, Okla. Pump. No. 1,164,917; Dec. 21; Gaz. vol. 221; p. 848.
- Calvert, Walter R., San Antonio, Tex. Hose-washer. No. 1,137,382; Apr. 27; Gaz. vol. 213; p. 1293.
- Cambers, Joseph B., San Jose, Cal. Earth-scraper. No. 1,125,464; Jan. 19; Gaz. vol. 210; p. 877.
- Camblin, Arthur E., Stella, Nebr. Collapsible core for concrete culverts. No. 1,142,669; June 8; Gaz. vol. 215; p. 591.
- Cambou, Jean J. (See Biais, Cambou, and Baillod.)
- Cambre, Henry P., New Orleans, La. Railway draft device. No. 1,133,704; Mar. 30; Gaz. vol. 212; p. 1526.
- Cambria Steel Company. (See Fox, John C., assignor.)
- Camburn, Elmer, Tecumseh, Mich. Device for attaining cutter-bars. No. 1,161,024; Nov. 23; Gaz. vol. 220; p. 1052.
- Camden, Andrew B., assignor of one-half to H. G. Ross, Idabel, Okla. Razor. No. 1,127,182; Feb. 2; Gaz. vol. 211; p. 182.
- Camden Iron Works. (See Lindsay, William J., assignor.)
- Camden Pottery Company. (See I'odmore and Croasdale, assignors.)
- Camel Company. (See Burnett, Richard W., assignor.)
- Camel Company. (See Comee, Joseph F., assignor.)
- Camel Company. (See Comee, Joseph F., assignor.) (Re-issue.)
- Camel Company. (See Hopkins, James M., assignor.)
- Camel Company. (See Nylander, Erik G., assignor.)
- Camenzind, Joseph B., San Francisco, Cal. Fuel-supply tank for gas-generators. No. 1,151,081; Aug. 24; Gaz. vol. 217; p. 1140.
- Cameragraph Company, The. (See Schwab, William R., assignor.)
- Cameron, Alexander, East Jordan, Mich. Process of and apparatus for the destructive distillation of wood. No. 1,137,255; Apr. 27; Gaz. vol. 213; p. 1246.
- Cameron, Charles S., Correctionville, Iowa. Disk pulverizer. No. 1,148,008; July 27; Gaz. vol. 216; p. 1128.
- Cameron, Colin, Jr., Tucson, Ariz. Repeating graphophone. No. 1,142,670; June 8; Gaz. vol. 215; p. 591.
- Cameron, De Lancy A., Geneseo, assignor to Delac Plaster Co., Mumford, N. Y. Plaster-board. No. 1,129,637; Feb. 23; Gaz. vol. 211; p. 1165.
- Cameron, Edward, St. Kilda, Victoria, Australia. Milking-machine. No. 1,142,488; June 8; Gaz. vol. 215; p. 531.
- Cameron, Edward, Melbourne, Victoria, Australia. Milking-machine. No. 1,164,256; Dec. 14; Gaz. vol. 221; p. 575.
- Cameron, Helen I., West Collingswood, N. J. Hair-curler. No. 1,151,659; Aug. 31; Gaz. vol. 217; p. 1383.
- Cameron, James A., New York, N. Y., assignor to Cameron Picture Machine Company. Shutter for moving-picture machines. No. 1,151,760; Aug. 31; Gaz. vol. 217; p. 1417.
- Cameron, James A., and G. B. Birch, New York, assignors to Cameron Machine Company, Brooklyn, N. Y. Coll-tightening device. No. 1,136,311; Apr. 20; Gaz. vol. 213; p. 871.
- Cameron, James A., and G. B. Birch, New York, assignors to Cameron Machine Company, Brooklyn, N. Y. Collapsible shaft. No. 1,138,079; May 4; Gaz. vol. 214; p. 126.
- Cameron, James A., and G. B. Birch, New York, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,148,146; July 27; Gaz. vol. 216; p. 1180.
- Cameron, James D. (See Jacobsen, Cameron, and Lough.)
- Cameron, James R. (See Sheppard, George W., assignor.)
- Cameron, James R., and W. J. Dennin, Elizabeth, N. J. Machine for pebbling and glazing leather and like purposes. No. 1,137,119; Apr. 27; Gaz. vol. 213; p. 1197.
- Cameron, John, Newark, N. J. Davit. No. 1,162,132; Nov. 30; Gaz. vol. 220; p. 1488.
- Cameron, John M., Ravenscourt Park, London, England. Drying-machine. No. 1,136,933; Apr. 27; Gaz. vol. 213; p. 1128.
- Cameron, Joseph A., Indianapolis, Ind. Temporary carrying-case. No. 1,142,301; June 8; Gaz. vol. 215; p. 463.
- Cameron, Joseph A., Indianapolis, assignor to G. W. Infield, Marion county, Ind. Animal-trap. No. 1,142,781; June 8; Gaz. vol. 215; p. 631.
- Cameron Machine Company. (See Cameron and Birch, assignors.)
- Cameron, Neil S., Weed, Cal. Take-up device for electric-lamp cords and the like. No. 1,157,505; Oct. 19; Gaz. vol. 219; p. 818.
- Cameron Picture Machine Company. (See Cameron, James A., assignor.)
- Cameron, Robert T., Chattanooga, Tenn. Aseptic box or carton for packing medical supplies. No. 1,143,103; June 15; Gaz. vol. 215; p. 784.
- Cameron, Thomas, Norfolk, Va. Combined button and watch-chain attachment. No. 1,134,372; Apr. 6; Gaz. vol. 213; p. 105.
- Cameron, William A. (See Schauman, Bror M., assignor.)
- Cameron, William D., Cerro Gordo, N. C. Fertilizer-distributor. No. 1,162,903; Dec. 7; Gaz. vol. 221; p. 58.
- Cameron, William F., Ogden, Utah. Governor-valve. No. 1,165,315; Dec. 21; Gaz. vol. 221; p. 987.
- Cameron, William W., assignor to La Crosse Plow Company, La Crosse, Wis. Plow. No. 1,124,292; Jan. 12; Gaz. vol. 210; p. 423.
- Camfield, William H., Newark, N. J. Talking-machine. No. 1,138,843; May 11; Gaz. vol. 214; p. 434.
- Camilleri, Giuseppe, Chelsea, Mass. Envelop. No. 1,161,110; Nov. 23; Gaz. vol. 220; p. 1081.
- Caminiti, Antonio, Brooklyn, N. Y. Cork-machine. No. 1,162,567; Nov. 30; Gaz. vol. 220; p. 1636.
- Camino, Duchess, New York, N. Y. Coffee-pot. No. 1,125,812; Jan. 19; Gaz. vol. 210; p. 1002.
- Camnack, Charles, Crossett, Ark. Silo-door. No. 1,123,680; Jan. 5; Gaz. vol. 210; p. 165.
- Camp Bros. & Co. (See Camp, Joseph E., assignor.)
- Camp, Curtis B., trustee. (See Dean, William W.)
- Camp, Curtis B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Signaling device. No. 1,134,256; Apr. 6; Gaz. vol. 213; p. 64.
- Camp, James G. (See Heintzelman and Camp.)
- Camp, Joseph E., Washington, Ill. Jack. No. 1,136,934; Apr. 27; Gaz. vol. 213; p. 1129.
- Camp, Joseph E., assignor to Camp Bros. & Co., Washington, Ill. Support for wagon-jacks. No. 1,146,131; July 13; Gaz. vol. 216; p. 424.
- Camp, Key D. (See Lindemann and Camp.)
- Camp, Key D., assignor to A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Vent-controller for cook-stoves. No. 1,165,387; Dec. 28; Gaz. vol. 221; p. 1051.
- Campbell, Alex, et al. (See Buckley, Duer H., assignor.)
- Campbell, Alexander B., Jr., Jacksonville, Fla. Pocket-cutter. No. 1,137,459; Apr. 27; Gaz. vol. 213; p. 1320.
- Campbell, Alexander H., Woodmere, N. Y. Hand-truck. No. 1,140,795; May 25; Gaz. vol. 214; p. 1187.
- Campbell, Alfonso, Mexico, Mexico. Newspaper-vending machine. No. 1,126,702; Feb. 2; Gaz. vol. 211; p. 12.
- Campbell, Alonzo C., Asheville, N. C. Actuating device for percussion-tables. No. 1,141,767; June 1; Gaz. vol. 215; p. 239.
- Campbell, Andrew C., Waterbury, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Snap-hook. No. 1,157,757; Oct. 26; Gaz. vol. 219; p. 968.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Combined plow, gondola, and ballast car. No. 1,125,959; Jan. 26; Gaz. vol. 210; p. 1084.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Ore-car. No. 1,133,614; Mar. 30; Gaz. vol. 212; p. 1493.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism for dump-cars. No. 1,140,111; May 18; Gaz. vol. 214; p. 916.

Alphabetical list of patentees—Continued.

- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible general-service ballast-car. No. 1,164,918; Dec. 21; Gaz. vol. 221; p. 849.
- Campbell, Arthur M. (See Bradley and Campbell.)
- Campbell, Benjamin G., Oakland, Cal. Operating and controlling means for valves. No. 1,159,175; Nov. 2; Gaz. vol. 220; p. 266.
- Campbell, Bitum G., Jackson, Mich. Stop-cock seal. No. 1,131,821; Mar. 16; Gaz. vol. 212; p. 759.
- Campbell, Byron D., *et al.* (See Cartwright, Ernest O., assignor.)
- Campbell, Charles C. (See Peter, Stephen, assignor.)
- Campbell, Charles E., assignor of one-half to F. R. Campbell, Lynn, Mass. Electric-lighting device. No. 1,161,840; Nov. 30; Gaz. vol. 220; p. 1385.
- Campbell, Charles H., New York, N. Y. Fluid-impelling device of the screw-propeller type. No. 1,136,098; Apr. 20; Gaz. vol. 213; p. 795.
- Campbell, Charles W. (See Edington and Campbell.)
- Campbell, Charles W., Macon, Ga. Bridle. No. 1,125,465; Jan. 19; Gaz. vol. 210; p. 877.
- Campbell, Coolie D., Traverse City, Mich. Collapsible crate. No. 1,143,888; June 22; Gaz. vol. 215; p. 1079.
- Campbell, Daniel M., Leechburg, Pa. Billiard-cue. No. 1,147,705; July 27; Gaz. vol. 216; p. 1022.
- Campbell, Daniel W. (See Carr, George L., assignor.)
- Campbell, David R. (See Care, Thomas, assignor.)
- Campbell, Donald J., Muskegon, Mich. Piston-ring pliers. No. 1,153,674; Sept. 14; Gaz. vol. 218; p. 502.
- Campbell, Donald J., Muskegon Heights, Mich. Piston-ring pliers. No. 1,157,082; Oct. 19; Gaz. vol. 219; p. 669.
- Campbell, Duncan R., Boston, assignor of one-half to F. Rumrill, Newton, Mass. Embossing-machine. No. 1,144,340; June 22; Gaz. vol. 215; p. 1240.
- Campbell, Edmund D., assignor to American Car and Foundry Company, St. Louis, Mo. Flexible metallic car-roof. No. 1,161,068; Dec. 14; Gaz. vol. 221; p. 512.
- Campbell, Edward B., St. Louis, Mo. Packing-ring. No. 1,132,762; Mar. 23; Gaz. vol. 212; p. 1149.
- Campbell, Edward B., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Packing-ring. No. 1,136,506; Apr. 20; Gaz. vol. 213; p. 941.
- Campbell, Francis H., Flushing, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,165,069; Dec. 21; Gaz. vol. 221; p. 901.
- Campbell, Frederick R. (See Campbell, Charles E., as signor.)
- Campbell, George L., assignor of one-half to R. R. Dent, Williamsport, Pa. Burial-case. No. 1,137,696; Apr. 27; Gaz. vol. 213; p. 1397.
- Campbell, George W., assignor, by mesne assignments, to The Perfection Mortise Machine Company, Columbus, Ohio. Mortising-machine. No. 1,149,629; Aug. 10; Gaz. vol. 217; p. 513.
- Campbell, George W., Jr., Philadelphia, Pa. Gas-cock. No. 1,141,768; June 1; Gaz. vol. 215; p. 239.
- Campbell, Hardy W., Bethany, Nebr. Grain-drill. No. 1,124,695; Jan. 12; Gaz. vol. 210; p. 568.
- Campbell, James W., Reno, Nev. Variable-speed gearing. No. 1,133,837; Mar. 30; Gaz. vol. 212; p. 1572.
- Campbell, John, assignor of one-half to T. E. McDermott, Minneapolis, Minn. Animal-trap. No. 1,150,927; Aug. 24; Gaz. vol. 217; p. 1088.
- Campbell, John A., Carbondale, Ill. Press. No. 1,149,025; Aug. 3; Gaz. vol. 217; p. 191.
- Campbell, John P. (See Morrell, Lon, assignor.)
- Campbell, John P., Spokane, Wash. Combination pepper and salt box. No. 1,149,630; Aug. 10; Gaz. vol. 217; p. 513.
- Campbell, Joseph N., Linden, N. J. Paper-hanging device. No. 1,140,112; May 18; Gaz. vol. 214; p. 916.
- Campbell, Leon J., Chicago, Ill. Transmission-gearing. No. 1,135,354; Apr. 13; Gaz. vol. 213; p. 493.
- Campbell, Leon J., Chicago, Ill. Operating device for punch-press clutches. No. 1,158,370; Oct. 26; Gaz. vol. 219; p. 1182.
- Campbell, Leon J., assignor to J. T. Healy, trustee, Chicago, Ill. Clutch. No. 1,125,646; Jan. 19; Gaz. vol. 210; p. 941.
- Campbell, Leon J., assignor of one-half to J. T. Healy, Chicago, Ill. Transmission device. No. 1,162,336; Nov. 30; Gaz. vol. 220; p. 1559.
- Campbell, Louis W., South Yarra, Victoria, Australia. Electrically-heated soldering-iron. No. 1,128,102; Feb. 9; Gaz. vol. 211; p. 545.
- Campbell, Louis W., South Yarra, Victoria, Australia. Electrical heating-unit and resistance-coil. No. 1,134,818; Apr. 6; Gaz. vol. 213; p. 266.
- Campbell, Osmon B., Jr., Kansas City, Mo. Rotary conical valve for internal-combustion motors. No. 1,139,953; May 18; Gaz. vol. 214; p. 858.
- Campbell, Percy A., Newark, N. J., assignor to Westinghouse Lamp Company. Electrical measuring instrument. No. 1,144,636; June 29; Gaz. vol. 215; p. 1367.
- Campbell, Philip D. (See Beck, August, assignor.)
- Campbell, Robert A., Minneapolis, Minn. Tire-pressure gage. No. 1,129,450; Feb. 23; Gaz. vol. 211; p. 1100.
- Campbell, Robert A., Minneapolis, Minn. Tire-stem cover. No. 1,146,774; July 13; Gaz. vol. 216; p. 649.
- Campbell, Robert A., Minneapolis, Minn. Tire-pressure gage. No. 1,153,026; Sept. 7; Gaz. vol. 218; p. 236.
- Campbell, Robert S., Straw Plains, Tenn. Lubricator. No. 1,166,181; Dec. 28; Gaz. vol. 221; p. 1331.
- Campbell, Robert S., Straw Plains, Tenn. Lubricator. No. 1,166,182; Dec. 28; Gaz. vol. 221; p. 1331.
- Campbell, Ross L., Wilmington, Del. Pump. No. 1,130,959; Mar. 9; Gaz. vol. 212; p. 422.
- Campbell, Royal B., Three Rivers, Mich. Rewinding wallpaper machine. No. 1,141,441; June 1; Gaz. vol. 215; p. 127.
- Campbell, Sanford B., assignor of one-half to H. H. Fraleigh, Birmingham, Ala. Handle for suit-boxes and analogous receptacles. No. 1,144,637; June 29; Gaz. vol. 215; p. 1367.
- Campbell, Socrates A., Mound Valley, Kans. Folding car-step. No. 1,156,752; Oct. 12; Gaz. vol. 219; p. 522.
- Campbell, Sterling H., St. Louis, Mo. Pin-lifter for car-couplings. No. 1,159,470; Nov. 9; Gaz. vol. 220; p. 402.
- Campbell, Sterling H., assignor to Railway Devices Company, St. Louis, Mo. Angle-cock holder. No. 1,148,751; Aug. 3; Gaz. vol. 217; p. 97.
- Campbell, Sterling H., assignor to Railway Devices Company, St. Louis, Mo. Combined angle-cock and train-pipe clamp. No. 1,156,463; Oct. 12; Gaz. vol. 219; p. 421.
- Campbell, Sterling H., assignor to Railway Devices Company, St. Louis, Mo. Angle-cock holder. No. 1,162,030; Nov. 30; Gaz. vol. 220; p. 1451.
- Campbell, Thomas M., Los Angeles, Cal. Display-can. No. 1,130,256; Mar. 2; Gaz. vol. 212; p. 143.
- Campbell, W. B. (See Despain, Charles A., assignor.)
- Campbell, William A., Maricopa, Cal. Valve structure. No. 1,126,171; Jan. 26; Gaz. vol. 210; p. 1164.
- Campbell, William A., Maricopa, Cal. Hose-coupling. No. 1,130,475; Mar. 2; Gaz. vol. 212; p. 222.
- Campbell, William B. (See Hye, Campbell, and Bate-man.)
- Campbell, William B., Gadsden, Ala. Disinfecter for flushing-tanks. No. 1,131,677; Mar. 16; Gaz. vol. 212; p. 706.
- Campbell, William O., St. Louis, Mo. Fountain tooth-brush. No. 1,163,319; Dec. 7; Gaz. vol. 221; p. 204.
- Campbell, William R., Lancaster, Ohio. Apparatus for drawing glass. No. 1,143,104; June 15; Gaz. vol. 215; p. 784.
- Campbell, William V. (See Welch, Thomas, assignor.)
- Campbell, Wilson L., La Grange, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Common-battery automatic telephone system. No. 1,137,200; Apr. 27; Gaz. vol. 213; p. 1225.
- Campello Nailless Heel Company. (See Ryberg, Charles O., assignor.)
- Campfield, Thomas, Unity, Ill. Portable elevator. No. 1,157,367; Oct. 19; Gaz. vol. 219; p. 770.
- Camphuis, Peter D. (See Tower and Camphuis.)
- Campion, William, and J. A. McKay, assignors of three-eighths to W. Campion and three-eighths to P. Kasack, New Toronto, Ontario, Canada. Billiard-table. No. 1,161,111; Nov. 23; Gaz. vol. 220; p. 1081.
- Campodonico, Frank G., Stockton, Cal. Potato-cleaning apparatus. No. 1,125,898; Jan. 19; Gaz. vol. 210; p. 1030.
- Campus, Cesare, New York, N. Y. Match-book. No. 1,125,647; Jan. 19; Gaz. vol. 210; p. 941.
- Campus, Cesare, New York, N. Y. Intermittent transmission mechanism. No. 1,132,436; Mar. 16; Gaz. vol. 212; p. 981.
- Canadian Car & Foundry Company. (See Atwood, William S., assignor.)
- Canadian Car & Foundry Company. (See Rankin, John W., assignor.)
- Canadian Consolidated Rubber Company. (See Rieder, Talmon H., assignor.)
- Canadian Independent Telephone Company. (See Hulfish, David S., assignor.)
- Canale, John D., Memphis, Tenn. Nut-cracking machine. No. 1,160,370; Nov. 16; Gaz. vol. 220; p. 775.
- Canby, Amos G., Detroit, Mich. Pouring-spout for cans. No. 1,153,998; Sept. 21; Gaz. vol. 218; p. 649.
- Cancellieri, Lionello G., and A. Cappelletti, Florence, Italy. Apparatus for applying closures. No. 1,125,466; Jan. 19; Gaz. vol. 210; p. 878.
- Canchester, David J., Chicago, Ill. Igniter. No. 1,134,314; Apr. 6; Gaz. vol. 213; p. 85.
- Canda, Charles A., Elizabeth, N. J. Machine for making tubes and tires. No. 1,159,895; Nov. 9; Gaz. vol. 220; p. 555.
- Candee, Raphael R. (See Drader and Candee.)
- Candee, Zenas P. (See Wilcox and Candee.)
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Dial mechanism. No. 1,136,891; Apr. 20; Gaz. vol. 213; p. 1077.
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Punch-shifting device. No. 1,153,287; Sept. 14; Gaz. vol. 218; p. 363.
- Candey, Earl, Chicago Heights, assignor to Kewanee Water Supply Company, Kewanee, Ill. Internal-combustion engine. No. 1,156,886; Oct. 19; Gaz. vol. 219; p. 598.
- Candfield, Charles H., Syracuse, N. Y. Shipping-box. No. 1,148,752; Aug. 3; Gaz. vol. 217; p. 97.

Alphabetical list of patentees—Continued.

- Canfield, Frank A., Chicago, Ill. Exhibiting and vending case. No. 1,162,750; Dec. 7; Gaz. vol. 221; p. 7.
- Canfield, Frank A., Chicago, Ill. Exhibiting and vending device. No. 1,164,166; Dec. 14; Gaz. vol. 221; p. 546.
- Canfield, James H., *et al.* (See Hartman, Louis H., assignor.)
- Canfield, Lewis T., Chicago, Ill. Uncoupling mechanism. No. 1,141,933; June 8; Gaz. vol. 215; p. 334.
- Canfield, Lewis T., Chicago, Ill. assignor to Union Draft Gear Co. Draft-gear. No. 1,123,482; Jan. 5; Gaz. vol. 210; p. 97.
- Cancen, Mark. (See McNalley, Alfred H., assignor.)
- Cangia, Giuseppe D., Naples, Italy. Electric-power-transmission pole. No. 1,139,487; May 18; Gaz. vol. 214; p. 695.
- Canion, William G., El Paso, Tex., assignor to Arizona Automatic-Air Association, Bisbee, Ariz. Economy air-brake apparatus. No. 1,149,152; Aug. 3; Gaz. vol. 217; p. 234.
- Canlin, Howland. (See Butterworth and Canlin.)
- Cann, Charles E. (See Drake and Cann.)
- Cannedy, Edgar P., Clovis, N. Mex. Harrow. No. 1,153,027; Sept. 7; Gaz. vol. 218; p. 236.
- Cannell, William, Springfield, Mass., assignor to Baush Machine Tool Company. Universal joint. No. 1,159,176; Nov. 2; Gaz. vol. 220; p. 266.
- Cannetti, Giuseppe, New York, N. Y. Outlet-valve. No. 1,146,846; July 20; Gaz. vol. 216; p. 694.
- Canning, Albert, Jr. (See Broderick, Robert H., assignor.)
- Canning, Louis P., Athens, Ga. Glass-holder. No. 1,141,609; June 1; Gaz. vol. 215; p. 186.
- Cannon, Edson L., Cleveland, Ohio. Tool for spreading roofing material. No. 1,144,891; June 29; Gaz. vol. 215; p. 1457.
- Cannon, Elizabeth S., St. Louis, Mo. Child's garment. No. 1,125,467; Jan. 19; Gaz. vol. 210; p. 878.
- Cannon, Francis P. (See Wilbur, Merritt D., assignor.)
- Cannon, Frederick W., assignor to H. J. Percy and F. O. Schoedinger, Columbus, Ohio. Tool. No. 1,149,726; Aug. 10; Gaz. vol. 217; p. 546.
- Cannon, Martin L., Portis, Kans. Belt-tightener. No. 1,142,874; June 15; Gaz. vol. 215; p. 702.
- Cannon, Vernon B. (See Anspach, Francis G., assignor.)
- Cannon, William J., and A. Herman, Chicago, Ill. Coupon railway-ticket. No. 1,160,377; Nov. 16; Gaz. vol. 220; p. 776.
- Canon, Edward L., Quitman, Ga. Peanut-picker. No. 1,153,598; Sept. 14; Gaz. vol. 218; p. 477.
- Cantey, Edward B., Columbia, S. C. Instrument for cutting cores from solid substances. No. 1,162,901; Dec. 7; Gaz. vol. 221; p. 57.
- Cantley, William L. (See Henderson and Cantley.)
- Canton, James L. and D. Hurley, Hillyard, Wash. Locomotive. No. 1,157,843; Oct. 26; Gaz. vol. 219; p. 998.
- Canton Art Metal Company, The. (See Olson, Carl, assignor.)
- Canton Culvert Company, The. (See Schlafly, Julius H., assignor.)
- Canton, Georges H. M., assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Fluid-pressure motor for driving torpedoes. No. 1,152,004; Aug. 31; Gaz. vol. 217; p. 1502.
- Canton, Georges H. M., P. G. Unne, and E. J. J. Salmson, Billancourt, France. Valve-spring. No. 1,154,971; Sept. 28; Gaz. vol. 218; p. 1010.
- Cantor, Joseph. (See Rovelli, Angelo C., assignor.)
- Cantovitz, Harry S. (See Kunz and Cantovitz.)
- Cantwell, James T., Grand Haven, Mich. Skirt-gage. No. 1,146,401; July 13; Gaz. vol. 216; p. 519.
- Caulet, Frank N., Shidell, La. Grappling-hook. No. 1,141,038; May 25; Gaz. vol. 214; p. 1273.
- Capdevila, Jose, New York, N. Y. Repair-heel for rubber footwear. No. 1,138,725; May 11; Gaz. vol. 214; p. 390.
- Capece, Giovanni, Providence, R. I. Artificial-stone cement. No. 1,141,610; June 1; Gaz. vol. 215; p. 187.
- Capewell Horse Nail Company, The. (See Cutter, Solomon M., assignor.)
- Capitol Brass Works. (See Arndt, William E., assignor.)
- Capparella, Thomas, and M. Mallone, New York, N. Y. Tire for vehicles. No. 1,135,876; Apr. 13; Gaz. vol. 213; p. 677.
- Cappelle, Albert. (See Latour and Cappelle.)
- Cappelletti, Anchise. (See Cancellieri and Cappelletti.)
- Cappelli, Mike, Washington, Pa. Coke-oven door. No. 1,159,827; Nov. 9; Gaz. vol. 220; p. 531.
- Capps, Frank L. (See Sheble and Capps.)
- Capps, Guy B. (See Gaylord and Capps.)
- Capsoni, Carlo, Alessandria, Italy. Distributing apparatus. No. 1,146,132; July 13; Gaz. vol. 216; p. 425.
- Capstick, Foster. (See Fry, Charley, assignor.)
- Capwell, Courtland G., Roslindale, Mass. Universal joint. No. 1,142,489; June 8; Gaz. vol. 215; p. 531.
- Capwell, Vernon L., Dorraconet, Pa. Valve-gear. No. 1,129,272; Feb. 23; Gaz. vol. 211; p. 1037.
- Caraway, Gordon B. (See Shimota and Caraway.)
- Carbic Corporation, The. (See Morris, John M., assignor.)
- Carbis, Samuel H., Freeport, Pa. Strainer. No. 1,154,175; Sept. 21; Gaz. vol. 218; p. 710.
- Carbon-Oxygen Gas Engine Company. (See Willey and Galletly, assignors.)
- Carbone, Peter. (See Mago, Bartholomeo, assignor.)
- Carbone, Tito L., Charlottenburg, Germany, assignor to General Electric Company. Inclosed flaming-arc lamp. No. 1,154,093; Sept. 21; Gaz. vol. 218; p. 683.
- Carborundum Company, The. (See Brockbank, Clarence J., assignor.)
- Carborundum Company, The. (See Clark, Bennett F., assignor.)
- Carborundum Company, The. (See Coulter, Leonard B., assignor.)
- Carborundum Company, The. (See Manley, Ralph B., assignor.)
- Card, George C., and W. Myers, Seattle, Wash. Winch. No. 1,125,813; Jan. 19; Gaz. vol. 210; p. 1002.
- Cardell, Ella, Chicago, Ill., assignor of one-half to A. Shiffer, Mechanicsville, Iowa. Adjustable marker. No. 1,163,505; Dec. 7; Gaz. vol. 221; p. 269.
- Cardin, Joseph, and E. Deady, Providence, R. I. Skeln-yarn-setting machine. No. 1,164,167; Dec. 14; Gaz. vol. 221; p. 546.
- Cardwell, Charles E., assignor of one-third to R. E. L. Jenkins, Houston, Tex. Farm-gate. No. 1,135,434; Apr. 13; Gaz. vol. 213; p. 522.
- Cardwell, James R., assignor to Union Draft Gear Company, Chicago, Ill. Draft-gear. No. 1,137,951; May 4; Gaz. vol. 214; p. 80.
- Cardwell, Joseph C. (See Restorff and Life, assignors.)
- Cardy, Fred E., Chicago, Ill. Loose-leaf binder. No. 1,140,442; May 25; Gaz. vol. 214; p. 1065.
- Cardy, William A., Winchester, Mass. Ornamental box. No. 1,164,463; Dec. 14; Gaz. vol. 221; p. 650.
- Care, Thomas, McKeesport, assignor of one-half to D. R. Campbell, Monessen, Pa. Crutch and the like. No. 1,164,608; Dec. 14; Gaz. vol. 221; p. 699.
- Carence, Thomas, Kansas City, Mo. Means to prevent condensation of water on glass windows. No. 1,128,103; Feb. 9; Gaz. vol. 211; p. 546.
- Carence, Thomas, and E. W. Sumpter, Kansas City, Mo. Hose-coupling. No. 1,149,727; Aug. 10; Gaz. vol. 217; p. 546.
- Caretto, John F. (See Nies and Caretto.)
- Carew, James, Liverpool, England. Furnace fire-grate. No. 1,147,605; July 20; Gaz. vol. 216; p. 961.
- Carew, William A., Syracuse, N. Y. Steam-separator. No. 1,129,638; Feb. 23; Gaz. vol. 211; p. 1166.
- Carey, Clarence C., New York, N. Y. Scale-check perforator. No. 1,129,639; Feb. 23; Gaz. vol. 211; p. 1166.
- Carey, Clarence F., *et al.* (See Duncan, Lester C., assignor.)
- Carey & Co. (See Flaherty and Gerlach, assignors.)
- Carey, Daniel G., Elmira, N. Y. Uterine supporter. No. 1,162,568; Nov. 30; Gaz. vol. 220; p. 1637.
- Carey, Ida, Tuscarora, Nev. Raffle tie and fastening. No. 1,132,437; Mar. 16; Gaz. vol. 212; p. 981.
- Carey, John. (See Hornbostel and Carey.)
- Carey, M. J., *et al.* (See Sheridan, Lawrence J., assignor.)
- Carey, Patrick J., New York, N. Y. Wall-board. No. 1,156,753; Oct. 12; Gaz. vol. 219; p. 522.
- Cargill, Robert G., assignor to Standard Baking Company, Minneapolis, Minn. Machine for baking ice-cream cones. No. 1,127,401; Feb. 9; Gaz. vol. 211; p. 297.
- Carhart, Herbert A., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,127,731; Feb. 9; Gaz. vol. 211; p. 414.
- Carhartt, Hamilton H., Jr., and O. E. Kratz, assignors to Hamilton Carhartt Manufacturer, Detroit, Mich. Overalls. No. 1,152,289; Aug. 31; Gaz. vol. 217; p. 1601.
- Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,142,552; June 8; Gaz. vol. 215; p. 552.
- Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupting device. No. 1,164,257; Dec. 14; Gaz. vol. 221; p. 576.
- Carius, Emil, Taucha, near Leipzig, Germany. Toy brick-press. No. 1,156,521; Oct. 12; Gaz. vol. 219; p. 442.
- Carjulo, Domenico, New York, N. Y. Combined heating and cooking stove. No. 1,143,504; June 15; Gaz. vol. 215; p. 923.
- Carkhuff, Norman W. (See Gregory and Carkhuff.)
- Carl, David. (See Pinkel, Daniel, assignor.)
- Carl, Elizabeth, *et al.* (See Carl, Louis M., assignor.)
- Carl Hamel Actien-Gesellschaft. (See Günther, Oskar A., assignor.)
- Carl, John A., Pottstown, Pa. Apparatus for casting metal. No. 1,151,660; Aug. 31; Gaz. vol. 217; p. 1383.
- Carl, John H., Gilroy, Cal. Magazine for firearms. No. 1,158,981; Nov. 2; Gaz. vol. 220; p. 198.
- Carl, Louis M., assignor of one-fourth to M. Jacobs, one-fourth to J. Meier, and one-fourth to E. Carl, Chicago, Ill. Window construction. No. 1,123,681; Jan. 5; Gaz. vol. 210; p. 165.
- Carlander, Thor, *et al.* (See Wigellus, Sven G., assignor.)
- Carlton, George W. (See Anderson, Hans J., assignor.)
- Carlton, Herbert O., New York, and E. W. Nelson, New Rochelle, N. Y. Apparatus for printing positive motion-picture films. No. 1,152,599; Sept. 7; Gaz. vol. 218; p. 81.
- Carlton, Herbert O., New York, and E. W. Nelson, New Rochelle, N. Y. Cam-movement. No. 1,152,600; Sept. 7; Gaz. vol. 218; p. 81.

Alphabetical list of patentees—Continued.

- Carleton, Jerry. (See Scudder and Corlew, assignors.)
- Carley, Leonard R., assignor to Patent Button Company, Waterbury, Conn. Tack. No. 1,149,183; Aug. 10; Gaz. vol. 217; p. 349.
- Carlin, Albert N. (See Carlin, Edmund P., assignor.)
- Carlin, Arvid P., New York, N. Y. Mechanical fan. No. 1,135,257; Apr. 13; Gaz. vol. 213; p. 460.
- Carlin, David N., Pittsburgh, Pa. Unloading device for grinding and mixing machines. No. 1,127,587; Feb. 9; Gaz. vol. 211; p. 362.
- Carlin, Edmund P., La Prairie, Ill., assignor of one-half to A. N. Carlin, St. Louis, Mo. End-gate rod and lock. No. 1,140,796; May 25; Gaz. vol. 214; p. 1187.
- Carlin, Edward M., Montreal, Quebec, Canada. Mixing-machine. No. 1,125,814; Jan. 19; Gaz. vol. 210; p. 1003.
- Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. No. 1,132,558; Mar. 23; Gaz. vol. 212; p. 1073.
- Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. No. 1,133,004; Mar. 23; Gaz. vol. 212; p. 1239.
- Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. No. 1,156,464; Oct. 12; Gaz. vol. 219; p. 422.
- Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Calculating-machine. No. 1,164,630; Dec. 21; Gaz. vol. 221; p. 748.
- Carlisle, Charles J., Coldwater, Mich. Toy magazine-rifle. No. 1,148,753; Aug. 3; Gaz. vol. 217; p. 98.
- Carlisle, Fred B., Malden, Mass., assignor to Revere Rubber Company. Indicating means. No. 1,137,697; Apr. 27; Gaz. vol. 213; p. 1397.
- Carli, Addison B., Boothwyn, Pa. Ratchet-drill. No. 1,138,276; May 4; Gaz. vol. 214; p. 193.
- Carli, Addison B., Boothwyn, Pa. Ratchet mechanism for tools. No. 1,138,277; May 4; Gaz. vol. 214; p. 194.
- Carlock, John P., Jr., Dennis, Mont. Automobile-jack. No. 1,149,114; Aug. 3; Gaz. vol. 217; p. 220.
- Carlow, Andrew J., *et al.* (See Warren, Edward H., assignor.)
- Carlow, J. Howard, *et al.* (See Warren, Edward H., assignor.)
- Carlson, Albert, Walcott, N. D. Cage animal-trap. No. 1,130,667; Mar. 2; Gaz. vol. 212; p. 289.
- Carlson, Albin V., Degerhamn, assignor to C. L. Carlson, Stockholm, Sweden. Manufacturing hydraulic cement. No. 1,130,143; Mar. 2; Gaz. vol. 212; p. 105.
- Carlson, Alfred J., Monticello, Minn. Hay-rack. No. 1,147,371; July 20; Gaz. vol. 216; p. 878.
- Carlson, Amanda C., Cannon Falls, Minn. Adjustable cake-holding band. No. 1,154,972; Sept. 28; Gaz. vol. 218; p. 1010.
- Carlson, Arthur G., North Easton, Mass. Detectometer. No. 1,155,338; Oct. 5; Gaz. vol. 219; p. 5.
- Carlson, August W. (See Anderson, John C., assignor.)
- Carlson, Carl A., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making card-matches. No. 1,132,302; Mar. 16; Gaz. vol. 212; p. 934.
- Carlson, Carl A. and K. E., Campbell, Mass. Apparatus for moistening toe-pieces of shoes. No. 1,130,374; Mar. 2; Gaz. vol. 212; p. 185.
- Carlson, Carl L. (See Carlson, Albin V., assignor.)
- Carlson, Carl M. (See Diskrow and Carlson.)
- Carlson, Charles, Blue Island, Ill., assignor to Chicago Coach & Carriage Co. Wind-shield for vehicles. No. 1,129,451; Feb. 23; Gaz. vol. 211; p. 1101.
- Carlson, Edward, Parkers Prairie, Minn. Hog-feeding trough. No. 1,137,460; Apr. 27; Gaz. vol. 213; p. 1321.
- Carlson, Einar W., Upland, N. D. Post-puller. No. 1,130,144; Mar. 2; Gaz. vol. 212; p. 105.
- Carlson, Enoch. (See Johnson, John A., assignor.)
- Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Oven. No. 1,128,755; Feb. 16; Gaz. vol. 211; p. 819.
- Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Electrical heater. No. 1,120,381; Feb. 23; Gaz. vol. 211; p. 1075.
- Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Casing for vacuum-bottles and other devices. No. 1,132,512; Mar. 16; Gaz. vol. 212; p. 1010.
- Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Electrical cooking device. No. 1,137,050; Apr. 27; Gaz. vol. 213; p. 1171.
- Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum-bottle support. No. 1,143,172; June 15; Gaz. vol. 215; p. 807.
- Carlson, Frederick E., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum-bottle support. No. 1,143,173; June 15; Gaz. vol. 215; p. 808.
- Carlson, Frederick W. (See Larscheid, Carlson, and Firner.)
- Carlson, George. (See Thomas and Carlson.)
- Carlson, George K., New York, N. Y. Valve-grinder. No. 1,134,511; Apr. 6; Gaz. vol. 213; p. 156.
- Carlson, Gust, assignor to Deere & Mansur Company, Moline, Ill. Grain-sorter. No. 1,163,889; Dec. 14; Gaz. vol. 221; p. 449.
- Carlson, Hjalmar G., Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts. Ceiling-drilling machine. No. 1,137,837; May 4; Gaz. vol. 214; p. 40.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Method of making unions and the like. No. 1,142,302; June 8; Gaz. vol. 215; p. 463.
- Carlson, Hjalmar G., Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts. Making unions and the like. No. 1,142,303; June 8; Gaz. vol. 215; p. 464.
- Carlson, Hjalmar G., Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts. Set of dies. No. 1,142,782; June 8; Gaz. vol. 215; p. 631.
- Carlson, Hjalmar G., Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts. Pipe-hanger. No. 1,144,296; June 22; Gaz. vol. 215; p. 1224.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making a male member of a union coupling. No. 1,150,249; Aug. 17; Gaz. vol. 217; p. 797.
- Carlson, Hjalmar G., Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts. Apparatus for forming hollow articles by dies. No. 1,156,972; Oct. 19; Gaz. vol. 219; p. 630.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making nuts and the like. No. 1,156,973; Oct. 19; Gaz. vol. 219; p. 630.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Nut. No. 1,157,615; Oct. 19; Gaz. vol. 219; p. 853.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making bicycle crank-hangers. No. 1,165,316; Dec. 21; Gaz. vol. 221; p. 987.
- Carlson, Johan W., Clallam Bay, Wash. Boiler-flue cleaner. No. 1,144,461; June 29; Gaz. vol. 215; p. 1309.
- Carlson, John, *et al.* (See Fryberg, Elmer E., assignor.)
- Carlson, John, Jersey City, N. J. Lock. No. 1,162,569; Nov. 30; Gaz. vol. 220; p. 1637.
- Carlson, John A., Rockford, Ill. Drawer-equalizer. No. 1,148,573; Aug. 3; Gaz. vol. 217; p. 33.
- Carlson, John P. (See Duffy, David, assignor.)
- Carlson, Joseph, Chicago, Ill. Surgical appliance. No. 1,149,341; Aug. 10; Gaz. vol. 217; p. 409.
- Carlson, Karl O., assignor to National Piano Manufacturing Company, Grand Rapids, Mich. Automatic musical instrument with magazine. No. 1,152,287; Sept. 7; Gaz. vol. 218; p. 148.
- Carlson, Knute E. (See Carlson, Carl A. and K. E.)
- Carlson, Martin H., Gibbon, Nebr. Automobile license number tag. No. 1,152,076; Aug. 31; Gaz. vol. 217; p. 1528.
- Carlson, Oscar, New York, N. Y. Game. No. 1,127,588; Feb. 9; Gaz. vol. 211; p. 363.
- Carlson, Oscar F., and J. Foran, Biglake, Wash. Pulley-block. No. 1,164,919; Dec. 21; Gaz. vol. 221; p. 849.
- Carlson, Otto A., Jamestown, N. Y. Pipe-wrench. No. 1,147,782; July 27; Gaz. vol. 216; p. 1048.
- Carlson, Victor, Chatcolet, Idaho. Saw-set. No. 1,131,208; Mar. 9; Gaz. vol. 212; p. 508.
- Carlson, Walter C., Milwaukee, Wis., assignor to Stokes & Smith Company, Summerdale, Pa. Paper-cutting machine. No. 1,125,648; Jan. 19; Gaz. vol. 210; p. 942.
- Carlson-Wenstrom Manufacturing Company, The. (See Lundgren, Jacob, assignor.)
- Carlton, Serena, Blue Island, Ill. Guide attachment for sewing-machines. No. 1,159,358; Nov. 9; Gaz. vol. 220; p. 361.
- Carlyon Manufacturing Company. (See Kremer, Robert W., assignor.)
- Carlyon, Philip H., Jr., Dunkirk, N. Y. Fitting for hot-water-radiator connections. No. 1,141,611; June 1; Gaz. vol. 215; p. 187.
- Carman, Edwin S., assignor to The Ludlow Typograph Company, Cleveland, Ohio. Casting mechanism for typographs. No. 1,124,293; Jan. 12; Gaz. vol. 210; p. 423.
- Carman, Frederick E., Jamaica, assignor to M. E. Carman, Babylon, N. Y. Cyaniding apparatus. No. 1,146,783; July 20; Gaz. vol. 216; p. 672.
- Carman & Fryer. (See Carman, Victor H., assignor.)
- Carman, Miriam E. (See Carman, Frederick E., assignor.)
- Carman, Victor H., Indianapolis, Ind., assignor to Carman & Fryer. Automatic stop. No. 1,128,582; Feb. 16; Gaz. vol. 211; p. 760.
- Carmany, Charles A., Coatesville, Pa. Shade-roller. No. 1,134,727; Apr. 6; Gaz. vol. 213; p. 236.
- Carmichael, Archibald D., West Norfolk, assignor of one-third to H. S. Montgomery, Norfolk, Va. Sulfatizing ores. No. 1,124,696; Jan. 12; Gaz. vol. 210; p. 568.
- Carmichael, Henry, Malden, assignor of one-half to A. F. Glasier, Boston, Mass. Supplemental spring for automobiles. No. 1,125,264; Jan. 19; Gaz. vol. 210; p. 807.

Alphabetical list of patentees—Continued.

- Carmichael, John P., Milwaukee, Wis. Making polishing compositions and the product thereof. No. 1,128,287; Feb. 16; Gaz. vol. 211; p. 660.
- Carmina, Benjamin M., New York, N. Y. Pneumatic tool. No. 1,142,671; June 8; Gaz. vol. 215; p. 592.
- Carmody, Harold J., assignor of one-third to J. M. Levine and one-third to H. Uland, New York, N. Y. Fire-extinguisher. No. 1,162,133; Nov. 30; Gaz. vol. 220; p. 1489.
- Carmon, James A., Chicago, Ill. Safety-razor-blade-sharpening holder. No. 1,123,242; Jan. 5; Gaz. vol. 210; p. 14.
- Carmont, William H., Kingston, England. Resilient tire for road-vehicles. No. 1,154,484; Sept. 21; Gaz. vol. 218; p. 816.
- Carmouche, Emile A., Crowley, La. Cotton-gin. No. 1,151,565; Aug. 31; Gaz. vol. 217; p. 1351.
- Carnahan, John E. (See Maskrey, Arthur J., assignor.)
- Carnahan, John E., Canton, Ohio. Bluing steel or iron sheets. No. 1,141,770; June 1; Gaz. vol. 215; p. 240.
- Carnahan, John E., and A. J. Maskrey, Canton, Ohio. Oxidizing steel or iron sheets. No. 1,141,769; June 1; Gaz. vol. 215; p. 240.
- Carnahan, Orlando B., New Eagle, assignor to Window Glass Machine Company, Pittsburgh, Pa. Handling glass sheets. No. 1,125,468; Jan. 19; Gaz. vol. 210; p. 878.
- Carneal, Edwin E., assignor of one-half to F. O. Lake, Washington, D. C. Knife-sharpener. No. 1,165,070; Dec. 21; Gaz. vol. 221; p. 902.
- Carnegie, Alfred O. (See Parsons, Carnegie, and Parsons.)
- Carnell, Arthur L., Dungog, New South Wales, Australia. Pin-point catch. No. 1,144,638; June 29; Gaz. vol. 215; p. 1367.
- Carnes, Dudley D., Lott, Tex. Stalk-cutter. No. 1,131,907; Mar. 16; Gaz. vol. 212; p. 788.
- Carnes, Edward W. (See Rudolph and Carnes.)
- Carnes, George M., Rochester, N. Y. Drum. No. 1,127,589; Feb. 9; Gaz. vol. 211; p. 363.
- Carnes, James J., Malden, and W. T. Strong, Everett, Mass. Ice-cutter for railway-cars. No. 1,148,754; Aug. 3; Gaz. vol. 217; p. 98.
- Carnes, William K., McKees Rocks, Pa. Shearing-machine. No. 1,159,828; Nov. 9; Gaz. vol. 220; p. 531.
- Carney, E. B. (See Heylman, William R., assignor.)
- Carney, Felix A., Memphis, Tenn. Handle-turning machine. No. 1,147,372; July 20; Gaz. vol. 216; p. 879.
- Carney, Frank D., and R. V. McKay, Steelton, Pa. Charging-car. No. 1,158,982; Nov. 2; Gaz. vol. 220; p. 199.
- Carney, James J., Haverhill, Mass. Trousers attachment. No. 1,140,251; May 18; Gaz. vol. 214; p. 963.
- Carney, Jesse T., Rio de Janeiro, Brazil. Metal and concrete railway-sleeper. No. 1,148,353; July 27; Gaz. vol. 216; p. 1253.
- Carney, Jesse T., Rio de Janeiro, Brazil. Chair or socket for the rails of railways and the like. No. 1,156,754; Oct. 12; Gaz. vol. 219; p. 523.
- Carney, John, Pawtucket, R. I. Combined cover and carrier device for liquid-containers. No. 1,125,469; Jan. 19; Gaz. vol. 210; p. 879.
- Carney, John, Pawtucket, R. I. Device for withdrawing closure-caps from milk-bottles. No. 1,141,378; June 1; Gaz. vol. 215; p. 104.
- Carney, Martin. (See Greer and Carney.)
- Carney, Maurice, assignor to Paul Dickinson, Incorporated, Chicago, Ill. Chimney. No. 1,138,726; May 11; Gaz. vol. 214; p. 390.
- Carney, Peter J., Mandan, N. D. Screwless door-hinge. No. 1,150,744; Aug. 17; Gaz. vol. 217; p. 966.
- Carnie, Alexander, Independence, Mo. Calcining and clinkering. No. 1,158,371; Oct. 26; Gaz. vol. 219; p. 1183.
- Carnie, Alexander, North Branch, Mich. Calcining-furnace. No. 1,158,372; Oct. 26; Gaz. vol. 219; p. 1184.
- Carolina Banding Machine Company. (See Briggs, William C., assignor.)
- Caron, Napoleon, Nashua, N. H., assignor of one-half to N. Rodier, Lowell, Mass. Hammer. No. 1,133,705; Mar. 30; Gaz. vol. 212; p. 1527.
- Caron, Omer, and G. Surprenant, Maisonneuve, Quebec, Canada. Pipe-bender. No. 1,155,042; Sept. 28; Gaz. vol. 218; p. 1033.
- Caronia, Frank J., New York, N. Y. Step-ladder. No. 1,135,763; Apr. 13; Gaz. vol. 213; p. 637.
- Carothers, George R. (See Williamson and Carothers.)
- Carothers, George R., Philadelphia, Pa. Double-gear chain hoist. No. 1,124,390; Jan. 12; Gaz. vol. 210; p. 458.
- Carpaneto, Giacinto, et al. (See Arena, Felice, assignor.)
- Carpenter, Alexander, Prairie Depot, assignor of one-half to F. K. Geiwix, Findlay, Ohio. Block-surfacing machine. No. 1,135,972; Apr. 13; Gaz. vol. 213; p. 712.
- Carpenter, Allan O. (See Lucker and Carpenter.)
- Carpenter, Allie M., et al. (See Carpenter, Mason P., assignor.)
- Carpenter, Campbell C., Buffalo, N. Y., assignor, by mesne assignments, to Guaranty Trust Company of New York, trustee. Treatment of storage-battery plates. No. 1,164,464; Dec. 14; Gaz. vol. 221; p. 651.
- Carpenter, Charles E., Philadelphia, Pa. Composite leather belt. No. 1,160,040; Nov. 9; Gaz. vol. 220; p. 605.
- Carpenter, Charles E., Philadelphia, Pa. Composite leather belt. No. 1,160,041; Nov. 9; Gaz. vol. 220; p. 605.
- Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Printing-press controller. No. 1,143,686; June 22; Gaz. vol. 215; p. 1011.
- Carpenter, Charlie A., Wenatchee, Wash. Fruit-gathering bag. No. 1,137,303; Apr. 27; Gaz. vol. 213; p. 1264.
- Carpenter, Chauncey C., Concomully, Wash. Cultivator. No. 1,130,887; Mar. 9; Gaz. vol. 212; p. 399.
- Carpenter, Daniel A., New York, assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,156,588; Oct. 12; Gaz. vol. 219; p. 464.
- Carpenter, David E. (See Farnsworth, Carpenter, and Frost.)
- Carpenter, David E. (See Farnsworth, Carpenter, Frost, Rose, and Sipher.)
- Carpenter, David E., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rectifier system. No. 1,158,441; Nov. 2; Gaz. vol. 220; p. 10.
- Carpenter, David E., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrode-adjusting means. No. 1,162,031; Nov. 30; Gaz. vol. 220; p. 1452.
- Carpenter, Frankie L., Orange City, Fla. Folding box. No. 1,146,847; July 20; Gaz. vol. 216; p. 694.
- Carpenter, George A., Fort Morgan, Colo. Bottle-stopper. No. 1,162,032; Nov. 30; Gaz. vol. 220; p. 1452.
- Carpenter, Guy C. (See Menzel and Carpenter.)
- Carpenter, Harold N., Woodford, Vt. Fountain-pen-filling and ink-packaging device. No. 1,125,470; Jan. 19; Gaz. vol. 210; p. 879.
- Carpenter, Harold N., Woodford, Vt. Fountain-pen filler. No. 1,152,601; Sept. 7; Gaz. vol. 218; p. 81.
- Carpenter, Harold N., Bennington, Vt. Fountain-pen filler. No. 1,152,602; Sept. 7; Gaz. vol. 218; p. 82.
- Carpenter, Henry, et al. (See Buskard, Samuel G., assignor.)
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Stand-pipe-cleaning means. No. 1,135,498; Apr. 13; Gaz. vol. 213; p. 544.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Coal-gas-generating apparatus. No. 1,140,797; May 25; Gaz. vol. 214; p. 1187.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Coal-gas-generating apparatus. No. 1,140,798; May 25; Gaz. vol. 214; p. 1188.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Continuous conveyor. No. 1,144,323; June 22; Gaz. vol. 215; p. 1234.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Valve mechanism for gas-retorts. No. 1,149,026; Aug. 3; Gaz. vol. 217; p. 191.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Retort-furnace. No. 1,150,807; Aug. 17; Gaz. vol. 217; p. 988.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Retort-furnace. No. 1,150,808; Aug. 17; Gaz. vol. 217; p. 989.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Retort-furnace construction. No. 1,150,809; Aug. 17; Gaz. vol. 217; p. 989.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Retort-furnace construction. No. 1,150,810; Aug. 17; Gaz. vol. 217; p. 989.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Making gas. No. 1,166,183; Dec. 28; Gaz. vol. 221; p. 1332.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Valve mechanism for gas-retorts. No. 1,166,184; Dec. 28; Gaz. vol. 221; p. 1332.
- Carpenter, Henry A., and A. W. Warner, Sewickley, assignors to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Pressure control for gas-benches. No. 1,138,727; May 11; Gaz. vol. 214; p. 391.
- Carpenter, Henry A., and A. W. Warner, Sewickley, assignors to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Means for controlling the operation of gas-retorts. No. 1,144,167; June 22; Gaz. vol. 215; p. 1180.
- Carpenter, Henry A., and A. W. Warner, Sewickley, assignors to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Means for controlling the operation of gas-retorts. No. 1,144,168; June 22; Gaz. vol. 215; p. 1180.
- Carpenter, Henry A., and A. W. Warner, Sewickley, assignors to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Means for controlling the operation of gas-retorts. No. 1,144,169; June 22; Gaz. vol. 215; p. 1180.

Alphabetical list of patentees—Continued.

- Carpenter, Henry A., and A. W. Warner, Sewickley, assignors to Ritter-Conley Manufacturing Company, Pittsburgh, Pa. Computing weighing apparatus. No. 1,156,864; Oct. 12; Gaz. vol. 219; p. 562.
- Carpenter, Henry A., Sewickley, Pa., and D. D. Barnum, Worcester, Mass., assignors to Ritter-Conley Manufacturing Company, Pittsburgh, Pa. Manufacturing gas. No. 1,140,113; May 18; Gaz. vol. 214; p. 917.
- Carpenter, Henry A., and R. L. Hibbard, Sewickley, assignors to Ritter-Conley Manufacturing Company, Pittsburgh, Pa. Machine for charging and discharging gas-retorts. No. 1,144,165; June 22; Gaz. vol. 215; p. 1179.
- Carpenter, Henry A., and R. L. Hibbard, Sewickley, assignors to Ritter-Conley Manufacturing Company, Pittsburgh, Pa. Machine for charging and discharging gas-retorts. No. 1,149,631; Aug. 10; Gaz. vol. 217; p. 513.
- Carpenter, Henry A., R. L. Hibbard, and A. W. Warner, Sewickley, assignors to Ritter-Conley Manufacturing Company, Pittsburgh, Pa. Apparatus for charging and discharging gas-retorts. No. 1,144,166; June 22; Gaz. vol. 215; p. 1179.
- Carpenter, Henry A., R. L. Hibbard, and C. Warren, Sewickley, assignors to Ritter-Conley Manufacturing Company, Pittsburgh, Pa. Closure means for gas-retorts. No. 1,145,672; July 6; Gaz. vol. 216; p. 243.
- Carpenter, Horatio N., De Witt, Mich. Traction-plow. No. 1,123,991; Jan. 5; Gaz. vol. 210; p. 268.
- Carpenter, James M., Pawtucket, R. I. Die-holder. No. 1,155,211; Sept. 28; Gaz. vol. 218; p. 1094.
- Carpenter, James M., Pawtucket, R. I. Tool-holder. No. 1,160,042; Nov. 9; Gaz. vol. 220; p. 606.
- Carpenter, James W., Brooklyn, N. Y. Locking mechanism for vaults. No. 1,137,739; May 4; Gaz. vol. 214; p. 7.
- Carpenter, John C., Houston Heights, Tex. Carbureter. No. 1,153,999; Sept. 21; Gaz. vol. 218; p. 649.
- Carpenter, John H., Columbus, Ohio. Baking-machine. No. 1,128,407; Feb. 16; Gaz. vol. 211; p. 699.
- Carpenter, John L., Palmerton, Pa. Manufacturing calcium sulfate-zinc silind pigment. No. 1,146,690; July 13; Gaz. vol. 216; p. 621.
- Carpenter, Joseph F., Wheeling, W. Va. Cross-tie. No. 1,138,080; May 4; Gaz. vol. 214; p. 127.
- Carpenter, Lewis A., and R. Middleton, Revere, Mass. Pipe-hanger. No. 1,158,633; Nov. 2; Gaz. vol. 220; p. 79.
- Carpenter, Linn E., East Orange, N. J. Cheese. No. 1,163,066; Dec. 7; Gaz. vol. 221; p. 115.
- Carpenter, Mason P., assignor to A. M. Carpenter, Hickory Ridge, P. M. Carpenter, Blytheville, Ark., F. O. Hadley, P. H. Cullen, St. Louis, Mo., and H. J. Parks, East St. Louis, Ill. Nut-lock. No. 1,154,691; Sept. 28; Gaz. vol. 218; p. 917.
- Carpenter, Nathan H., Coshocton, Ohio. Machine for making paper. No. 1,153,892; Sept. 21; Gaz. vol. 218; p. 614.
- Carpenter, Price M., *et al.* (See Carpenter, Mason P., assignor.)
- Carpenter, Purva V., Worth, N. C. Brake and lever lock. No. 1,135,435; Apr. 13; Gaz. vol. 213; p. 522.
- Carpenter, Ralph W. (See Hart and Carpenter.)
- Carpenter, Solomon L. (See Warren, William M., assignor.)
- Carpenter, Teunnauski Z., assignor to Federal Screw Corporation, Providence, R. I. Screw-threading machine. No. 1,143,942; June 22; Gaz. vol. 215; p. 1098.
- Carpenter, Teunnauski Z., assignor to Federal Screw Corporation, Providence, R. I. Screw-slitting machine. No. 1,153,540; Sept. 14; Gaz. vol. 218; p. 456.
- Carpenter, W. B. (See MacVane, James, assignor.)
- Carpenter, William B. (See MacVane, James, assignor.)
- Carpenter, William H., Bristol, Conn. Spooling device. No. 1,141,771; June 1; Gaz. vol. 215; p. 240.
- Carpentier, Ernest F., Garden Valley, Idaho. Spring-board. No. 1,158,173; Oct. 26; Gaz. vol. 219; p. 1114.
- Carpentier, Rodolphe, assignor to Société Carpentier, Ba. & Cie., St.-Denis, France. Sparking plug. No. 1,131,115; Mar. 9; Gaz. vol. 212; p. 476.
- Carper, Albert A., Catonsville, assignor to The Crown Cork & Seal Company, Baltimore, Md. Bottling-machine. No. 1,133,929; Mar. 30; Gaz. vol. 212; p. 1603.
- Carr, Albert B., Atlanta, Ga., assignor to The Procter and Gamble Company, Cincinnati, Ohio. Treating cotton-seed. No. 1,141,104; June 1; Gaz. vol. 215; p. 5.
- Carr, Albert B., Atlanta, Ga., assignor to The Procter and Gamble Company, Cincinnati, Ohio. Cotton-seed drier. No. 1,150,996; Aug. 24; Gaz. vol. 217; p. 1111.
- Carr, Alfred E., Formby, near Liverpool, England. Device for detecting incomplete combustion. No. 1,143,889; June 22; Gaz. vol. 215; p. 1080.
- Carr, Alfred J. (See Mills, Charles B., assignor.)
- Carr, Arthur C., *et al.* (See Lovejoy, Harvey P., assignor.)
- Carr, Cassius M., Fort Worth, Tex. Dental tool. No. 1,138,355; May 4; Gaz. vol. 214; p. 224.
- Carr, Elmer E., Chicago, Ill. Flagstaff. No. 1,132,303; Mar. 16; Gaz. vol. 212; p. 934.
- Carr, George L., Wayland, N. Y., assignor of one-half to D. W. Campbell, Enfield, N. H. Trap-nest and egg-receptacle. No. 1,163,890; Dec. 14; Gaz. vol. 221; p. 450.
- Carr, George W., St. Louis, Mo. Railway-car. No. 1,161,025; Nov. 23; Gaz. vol. 220; p. 1052.
- Carr, Horace, Jr., assignor to The Carr Manufacturing Company, Kansas City, Mo. Oil-can. No. 1,135,156; Apr. 13; Gaz. vol. 213; p. 427.
- Carr, Hugh, Haugan, Mont. Street and highway snow-cleaning machine. No. 1,148,954; Aug. 3; Gaz. vol. 217; p. 166.
- Carr, Hugh E., Wallingford, Pa. Signaling mechanism for vehicles. No. 1,123,845; Jan. 5; Gaz. vol. 210; p. 221.
- Carr, James, Syracuse, assignor to Marvin & Casler Company, Canastota, N. Y. Drill-chuck. No. 1,125,649; Jan. 19; Gaz. vol. 210; p. 942.
- Carr, James, Syracuse, assignor to Marvin & Casler Company, Canastota, N. Y. Drill-chuck. No. 1,125,650; Jan. 19; Gaz. vol. 210; p. 942.
- Carr, James R., Rotan, Tex. Oil-burner. No. 1,157,758; Oct. 26; Gaz. vol. 219; p. 969.
- Carr, James W., Lakeland, Fla. Wood-preserving compound. No. 1,150,499; Aug. 17; Gaz. vol. 217; p. 882.
- Carr, Jessie D., Padgett, Tex. Cattle-yoke. No. 1,137,572; Apr. 27; Gaz. vol. 213; p. 1358.
- Carr, John H., Alhambra, Cal. Vehicle. No. 1,125,960; Jan. 26; Gaz. vol. 210; p. 1085.
- Carr, John H., Alhambra, Cal. Platform-wheel. No. 1,139,160; May 11; Gaz. vol. 214; p. 545.
- Carr, John H., Alhambra, Cal. Roller-bearing. No. 1,139,161; May 11; Gaz. vol. 214; p. 545.
- Carr, John H., Everett, Mass. Plumber's trap. No. 1,152,077; Aug. 31; Gaz. vol. 217; p. 1528.
- Carr, John H., Everett, Mass. Slow-closing valve. No. 1,162,134; Nov. 30; Gaz. vol. 220; p. 1489.
- Carr, John H., Alhambra, and A. C. Route, Los Angeles, Cal. Continuous concrete-pipe machine. No. 1,153,599; Sept. 14; Gaz. vol. 218; p. 477.
- Carr, Joseph B., Metamora, Ohio. Shoe-protector. No. 1,132,159; Mar. 16; Gaz. vol. 212; p. 880.
- Carr, Joseph R., Cleveland, Okla. Gate. No. 1,132,438; Mar. 16; Gaz. vol. 212; p. 982.
- Carr, Leonard S. (See Ball, Floyd, and Carr.)
- Carr, Lewis M., and P. J. Dugan, New York, N. Y. Valve. No. 1,162,570; Nov. 30; Gaz. vol. 220; p. 1637.
- Carr Manufacturing Company, The. (See Carr, Horace, Jr., assignor.)
- Carr, Marks E., *et al.* (See Cook, James H., assignor.)
- Carr, Michael R., Corte Madera, Cal. Pyrographic needle. No. 1,137,573; Apr. 27; Gaz. vol. 213; p. 1358.
- Carr, Robert P., assignor to U. S. Hame Company, Buffalo, N. Y. Making hames. No. 1,132,513; Mar. 16; Gaz. vol. 212; p. 1010.
- Carr, Selby C., Muskogee, Okla. Lock. No. 1,143,610; June 22; Gaz. vol. 215; p. 985.
- Carr, William C., Buffalo, N. Y. Truck. No. 1,129,954; Mar. 2; Gaz. vol. 212; p. 41.
- Carr, William C., Buffalo, N. Y. Switch-box for electric trucks. No. 1,139,954; May 18; Gaz. vol. 214; p. 858.
- Carr, William C., Buffalo, N. Y. Ore-car. No. 1,140,497; May 25; Gaz. vol. 214; p. 1087.
- Carr, William M., Wheeling, W. Va. Process of incinerating garbage and apparatus therefor. No. 1,134,512; Apr. 6; Gaz. vol. 213; p. 157.
- Carraine, Eugene, Philadelphia, Pa. Spool or reel for ribbons, &c. No. 1,143,505; June 15; Gaz. vol. 215; p. 923.
- Carrel, Claude M., assignor to himself and L. N. Maurier, Paris, France. Pressure-carbureter. No. 1,157,146; Oct. 19; Gaz. vol. 219; p. 691.
- Carrell, Fitchulee, and W. W. Moreau, Waco, Tex. Table. No. 1,163,506; Dec. 7; Gaz. vol. 221; p. 270.
- Carreras, Leo A., New York, N. Y. Hat-pin-point protector. No. 1,148,211; July 27; Gaz. vol. 216; p. 1201.
- Carrey, John O., St. Louis, Mo. Lighter. No. 1,132,559; Mar. 23; Gaz. vol. 212; p. 1073.
- Carrioco, Frank D., Hamtramck, assignor to Motor Appliance Sales Company, Ltd., Detroit, Mich. Steering-gear. No. 1,123,483; Jan. 5; Gaz. vol. 210; p. 98.
- Carrioco, Samuel F., and S. Gericke, South Greenfield, Mo. Nut-lock. No. 1,128,104; Feb. 9; Gaz. vol. 211; p. 546.
- Carrier, Courtland S., Omaha, Nebr. Check-protector. No. 1,133,459; Mar. 30; Gaz. vol. 212; p. 1436.
- Carrier, Walter J., Lansing, Mich. Water and fire shield for chimneys. No. 1,153,117; Oct. 26; Gaz. vol. 219; p. 1095.
- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Regulating humidity and temperature. No. 1,129,549; Feb. 23; Gaz. vol. 211; p. 1135.
- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Air washing and conditioning apparatus. No. 1,138,081; May 4; Gaz. vol. 214; p. 127.
- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Hygrostat or thermostatic device. No. 1,138,082; May 4; Gaz. vol. 214; p. 127.
- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Rotary fan. No. 1,138,083; May 4; Gaz. vol. 214; p. 128.

Alphabetical list of patentees—Continued.

- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Safety means for humidity-regulating apparatus. No. 1,138,984; May 4; Gaz. vol. 214; p. 128.
- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Psychrometer. No. 1,165,225; Dec. 21; Gaz. vol. 221; p. 958.
- Carrier, Willis H., Buffalo, N. Y., and E. W. Comfort, Chicago, Ill., assignors to Buffalo Forge Company, Buffalo, N. Y. Thermostatic regulating device. (Reissue.) No. 13,947; July 20; Gaz. vol. 216; p. 993.
- Carrigan, Daniel H., Portland, Me. Harness-pad. No. 1,129,847; Mar. 2; Gaz. vol. 212; p. 5.
- Carrigan, James B. (See Atwood, George F., assignor.)
- Carrigan, John, Seattle, Wash. Thermal circuit-closure. No. 1,136,407; Apr. 20; Gaz. vol. 213; p. 907.
- Carrill, Albert H., assignor to Hart-King System Company, Baltimore, Md. Recording and computing cards and holder therefor. No. 1,153,761; Sept. 14; Gaz. vol. 218; p. 531.
- Carroll, Charles E., Newport, Ark. Tooth-brush. No. 1,133,930; Mar. 30; Gaz. vol. 212; p. 1603.
- Carroll, Charles W., assignor of one-half to J. Kanapke, Celina, Ohio. Valve-movement. No. 1,124,857; Jan. 12; Gaz. vol. 210; p. 626.
- Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Means for securing blades in shearing-machines. No. 1,146,475; July 13; Gaz. vol. 216; p. 548.
- Carroll, Frank, Juneau, Alaska. Lemon-squeezer. No. 1,163,507; Dec. 7; Gaz. vol. 221; p. 270.
- Carroll, Fred M., assignor to The National Cash Register Company, Dayton, Ohio. Multiple cash-register. No. 1,163,739; Dec. 14; Gaz. vol. 221; p. 397.
- Carroll, George J., and J. Merkel, Tamaqua, Pa. Film-guard for the film-winding mechanism for moving-picture machines. No. 1,131,822; Mar. 16; Gaz. vol. 212; p. 759.
- Carroll, George P. (See Roehrich, Frank N., assignor.)
- Carroll, George P., Bridgeport, Conn. Rheostat-controller. No. 1,130,476; Mar. 2; Gaz. vol. 212; p. 223.
- Carroll, George P., Bridgeport, Conn., and F. N. Roehrich, Jersey City, N. J.; said Roehrich assignor to said Carroll. Sparkless thermostat. No. 1,125,059; Jan. 19; Gaz. vol. 210; p. 732.
- Carroll, George P., Bridgeport, Conn., and F. N. Roehrich, Jersey City, N. J.; said Roehrich assignor to said Carroll. Automatic expansion-valve. No. 1,137,051; Apr. 27; Gaz. vol. 213; p. 1172.
- Carroll, George V. (See McLaughlin, Thomas, assignor.)
- Carroll, James, Pittsfield, Ill. Rake. No. 1,123,682; Jan. 5; Gaz. vol. 210; p. 165.
- Carroll, James M. S., Westmount, Quebec, Canada. Strap-trimming machine. No. 1,157,844; Oct. 26; Gaz. vol. 219; p. 908.
- Carroll, Jay B., Sanborn, Iowa. Angle-cock. No. 1,128,846; Feb. 16; Gaz. vol. 211; p. 852.
- Carroll, Jeremiah E., Cleveland, Ohio. Automobile. No. 1,136,864; Apr. 20; Gaz. vol. 213; p. 1067.
- Carroll, John E., and W. H. Andrews, Boston, Mass., assignors, by mesne assignments, to Wizard Tire Inflator & Fire Extinguisher Co. Discharge control for fluid-receptacles. No. 1,152,485; Sept. 7; Gaz. vol. 218; p. 37.
- Carroll, John M. (See Godley and Carroll.)
- Carroll, John T. (See Choate and Carroll.)
- Carroll, Joseph, New York, N. Y. Adjustable piston-ring packing. No. 1,140,948; May 25; Gaz. vol. 214; p. 1243.
- Carroll Sparkless Thermostat. (See Carroll and Roehrich, assignors.)
- Carroll, Thomas, Dayton, Ohio. Motion translation and transmission mechanism. No. 1,156,271; Oct. 12; Gaz. vol. 219; p. 352.
- Carroll, Thomas, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,131,771; Mar. 16; Gaz. vol. 212; p. 739.
- Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,149,342; Aug. 10; Gaz. vol. 217; p. 409.
- Carroll, Thomas, assignor to The National Cash Register Company, Dayton, Ohio. Multiple cash-register. No. 1,150,997; Aug. 24; Gaz. vol. 217; p. 1111.
- Carroll, Thomas, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,163,738; Dec. 14; Gaz. vol. 221; p. 397.
- Carroll, Thomas, Oakwood, assignor to The National Cash Register Company, Dayton, Ohio. Fare-register. No. 1,143,747; June 22; Gaz. vol. 215; p. 1031.
- Carroll, Thomas and W. M., Dayton, Ohio. Engine-crankling mechanism. No. 1,161,841; Nov. 30; Gaz. vol. 220; p. 1335.
- Carroll, Thomas J., Clifton, Ariz. Hasp for suitcases. No. 1,140,949; May 25; Gaz. vol. 214; p. 1243.
- Carroll, William. (See Boddy and Carroll.)
- Carroll, William M. (See Carroll, Thomas and W. M.)
- Carruthers, George L., Pine Bluff, Ark. Pleasure-railway. No. 1,152,290; Aug. 31; Gaz. vol. 217; p. 1601.
- Carscadin, Charles A., and G. A. Woodman, Chicago, Ill. Uncoupling device. No. 1,129,070; Feb. 23; Gaz. vol. 211; p. 966.
- Carscadin, Charles A., and G. A. Woodman, Chicago, Ill. Uncoupling device. No. 1,141,612; June 1; Gaz. vol. 215; p. 187.
- Carscadin, Charles A., and G. A. Woodman, assignors of one-third to R. C. Dudley, Chicago, Ill. Uncoupling device. No. 1,140,114; May 18; Gaz. vol. 214; p. 917.
- Carson, Alexander A., Braintree, Mass. Mixing-valve. No. 1,152,291; Aug. 31; Gaz. vol. 217; p. 1602.
- Carson, Clarence, New Rochelle, N. Y. Electric switch. No. 1,151,162; Aug. 24; Gaz. vol. 217; p. 1168.
- Carson, David J. (See Lanigan and Carson.)
- Carson, George C., Denver, Colo. Metallurgical furnace. No. 1,149,495; Aug. 10; Gaz. vol. 217; p. 461.
- Carson, Lowell E., Cleveland, Ohio. Wire stretching or pulling device. No. 1,140,115; May 18; Gaz. vol. 214; p. 917.
- Carson, Robert. (See Jewell, Earl, assignor.)
- Carson, Walter H. (See Freuch and Carson.)
- Carson, Wilfred P., Winston-Salem, N. C. Grinding-mill-feeding mechanism. No. 1,157,506; Oct. 19; Gaz. vol. 219; p. 819.
- Carson, William, Sydney, New South Wales, Australia. Amalgamating-machine. No. 1,128,847; Feb. 16; Gaz. vol. 211; p. 852.
- Carsod, William B. (See Gregory, Thomas F., assignor.)
- Carstens, Johann, Leverkusen, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Printing-pastes and producing same. No. 1,126,387; Jan. 26; Gaz. vol. 210; p. 1240.
- Carswell, Robert E., Minneapolis, Minn. Transmission mechanism for automobiles. No. 1,143,037; June 15; Gaz. vol. 215; p. 760.
- Carter, Alonzo J. (See McArthur and Carter.)
- Carter, Augustus A., Fayette, Iowa. Adjustable shelving. No. 1,153,371; Sept. 14; Gaz. vol. 218; p. 395.
- Carter Carburetor Company. (See Carter, William C., assignor.)
- Carter, Charles B., Chicago, Ill. Metal-founding. No. 1,130,066; Mar. 2; Gaz. vol. 212; p. 79.
- Carter, Charles D., Spring Arbor, Mich. Mower. No. 1,129,640; Feb. 23; Gaz. vol. 211; p. 1166.
- Carter, Charles H., Colon, Panama. Controller for electric circuits. No. 1,123,484; Jan. 5; Gaz. vol. 210; p. 98.
- Carter, Charles W., Fairfield, N. C. Hinge. No. 1,125,265; Jan. 19; Gaz. vol. 210; p. 807.
- Carter-Crume Company, The. (See Turck, Frederick M., assignor.)
- Carter, Custis L., Charlottesville, Va. Trip and station indicator. No. 1,133,005; Mar. 23; Gaz. vol. 212; p. 1240.
- Carter, Dixon S., Davenport, Iowa. Pulverizing attachment for plowshares. No. 1,137,952; May 4; Gaz. vol. 214; p. 81.
- Carter, Edward C., Evanston, Ill. Angle-bar. No. 1,155,793; Oct. 5; Gaz. vol. 219; p. 163.
- Carter, Edward D., Montclair, N. J. Synchronism-indicator. No. 1,145,348; July 6; Gaz. vol. 216; p. 129.
- Carter, Elmer C., assignor to The National Cash Register Company, Dayton, Ohio. Treating metal. No. 1,147,783; July 27; Gaz. vol. 216; p. 1048.
- Carter, Emory J., assignor to The Simple Account Sales-book Company, Fremont, Ohio. Holder for manifold sales-books. No. 1,165,748; Dec. 28; Gaz. vol. 221; p. 1179.
- Carter, Faunt Le Roy, San Mateo, Cal. Vehicle-wheel and demountable rim. No. 1,145,115; July 6; Gaz. vol. 216; p. 50.
- Carter, Faunt Le Roy, San Mateo, Cal. Head-lamp control. No. 1,159,471; Nov. 9; Gaz. vol. 220; p. 403.
- Carter, Frank W. (See Connor, Maurice N., assignor.)
- Carter, George J., Kenton, Ohio. Brake-shoe. No. 1,128,224; Feb. 9; Gaz. vol. 211; p. 587.
- Carter, George S., Minneapolis, Minn. Cabinet. No. 1,138,353; May 4; Gaz. vol. 214; p. 223.
- Carter, George W., Goldson, Oreg. Lamp-chimney holder. No. 1,165,317; Dec. 21; Gaz. vol. 221; p. 987.
- Carter, Horace A., assignor, by mesne assignments, to The William Carter Co., Needham Heights, Mass. Knitted garment. No. 1,145,402; July 6; Gaz. vol. 216; p. 149.
- Carter, James B. (See Snodgrass and Carter.)
- Carter, James H., Chicago, Ill. Foldable box. No. 1,136,099; Apr. 20; Gaz. vol. 213; p. 795.
- Carter, James H., assignor of one-half to F. C. Maegly, Chicago, Ill. Filler for egg-cases. No. 1,143,036; June 15; Gaz. vol. 215; p. 759.
- Carter, John D. (See Vail and Carter.)
- Carter, John D., Denver, Colo. Automobile lamp-dimmer. No. 1,148,354; July 27; Gaz. vol. 216; p. 1253.
- Carter, John F. (See Laraway, William H., assignor.)
- Carter, Jonas, assignor of three-fourths to A. Long, Waukegan, Ill. Generator for intermittent electric currents. No. 1,130,257; Mar. 2; Gaz. vol. 212; p. 144.
- Carter, Llewellyn D., Portland, Oreg. Clothes-sprinkler. No. 1,151,244; Aug. 24; Gaz. vol. 217; p. 1197.
- Carter, Qvarnstrom & Remington. (See Qvarnstrom, Ernest J., assignor.)
- Carter, Ralph N., Bucklin, Mo. Headlight for vehicles. No. 1,130,067; Mar. 2; Gaz. vol. 212; p. 79.

Alphabetical list of patentees—Continued.

- Carter, Robert A., Pittsburgh, Pa. Machine for scarfing bars or rods. No. 1,146,611; July 13; Gaz. vol. 216; p. 594.
- Carter, Robert A., Pittsburgh, Pa. Scarfing bars or rods. No. 1,146,612; July 13; Gaz. vol. 216; p. 594.
- Carter, Russell S., New York, N. Y. Motor-car body. No. 1,144,999; July 6; Gaz. vol. 216; p. 7.
- Carter, Samuel C., Los Angeles, Cal. Friction-band clutch. No. 1,128,947; Feb. 16; Gaz. vol. 211; p. 889.
- Carter, Thomas J., Roanoke, Va. Guard-rail for bridges and like structures. No. 1,144,295; June 22; Gaz. vol. 215; p. 1224.
- Carter, Vina M. (See Stephens and Carter.)
- Carter, Wesley J., Tremonton, Utah. Toy. No. 1,151,663; Aug. 31; Gaz. vol. 217; p. 1384.
- Carter, William C., St. Louis, Mo. Needle-valve-operating mechanism for carbureters. No. 1,124,697; Jan. 12; Gaz. vol. 210; p. 569.
- Carter, William C., St. Louis, Mo. Fuel-supply apparatus. No. 1,146,133; July 13; Gaz. vol. 216; p. 425.
- Carter, William C., St. Louis, Mo. Fuel-supply apparatus. No. 1,146,134; July 13; Gaz. vol. 216; p. 425.
- Carter, William C., assignor to Carter Carburetor Company, St. Louis, Mo. Internal-combustion engine. No. 1,127,590; Feb. 9; Gaz. vol. 211; p. 363.
- Carter, William S., Lovington, Va. Knockdown barrel and hogthead. No. 1,148,355; July 27; Gaz. vol. 216; p. 1254.
- Carter, William T., Chicago, Ill. Ice-making apparatus. No. 1,130,960; Mar. 9; Gaz. vol. 212; p. 423.
- Carter, William W., et al. (See Pearson, James H., assignor.)
- Carlier, Willis M., New York, N. Y. Easel. No. 1,124,294; Jan. 12; Gaz. vol. 210; p. 424.
- Carter, Winthrop L., Nashua, N. H. Machine and method for waxing paper. No. 1,140,873; May 25; Gaz. vol. 214; p. 1216.
- Carter's Ink Company, The. (See Sabine, Wallace C., assignor.)
- Cartun, Jacob, Philadelphia, Pa. Vending-machine. No. 1,141,772; June 1; Gaz. vol. 215; p. 240.
- Cartwright, Dale P., Fort Wayne, assignor to Frigifax Manufacturing Company, La Fayette, Ind. Thermostatic control for electric motors. No. 1,136,312; Apr. 20; Gaz. vol. 213; p. 871.
- Cartwright, Daniel W., Detroit, Mich. Emery-wheel guard. No. 1,160,841; Nov. 16; Gaz. vol. 220; p. 942.
- Cartwright, David J., Boston, Mass. Ordnance. No. 1,137,953; May 4; Gaz. vol. 214; p. 81.
- Cartwright, Ernest O., Springfield, assignor of one-third to L. K. Fisher, Dayton, and one-third to B. D. Campbell, West Milton, Ohio. Elevator for sheet-feeding machines. No. 1,141,773; June 1; Gaz. vol. 215; p. 241.
- Cartwright, Ernest O., Springfield, assignor of one-third to L. K. Fisher, Dayton, and one-third to B. D. Campbell, West Milton, Ohio. Automatic printing-press. No. 1,146,920; July 20; Gaz. vol. 216; p. 720.
- Cartwright, Ernest O., Springfield, assignor of one-third to L. K. Fisher, Dayton, and one-third to B. D. Campbell, West Milton, Ohio. Sheet-conveyer. No. 1,151,082; Aug. 24; Gaz. vol. 217; p. 1140.
- Cartwright, George J. (See Price and Cartwright.)
- Carizadner, Roy E., assignor to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car. No. 1,157,147; Oct. 19; Gaz. vol. 219; p. 692.
- Carusel, Louis H. (See Gussner and Carusel.)
- Caruso, Leopold, and S. Morici, Chicago, Ill. Apparatus for coating articles. No. 1,124,858; Jan. 12; Gaz. vol. 210; p. 626.
- Caruth, Lawrence M., Vernon, Tex. Quilting apparatus. No. 1,151,440; Aug. 24; Gaz. vol. 217; p. 1260.
- Carvalho, Leslie R. N., assignor of one-half to M. King, Brooklyn, N. Y. Metallic cap for receptacles. No. 1,137,725; Apr. 27; Gaz. vol. 213; p. 1407.
- Carver, George W., East Orange, N. J. Pocket. No. 1,143,038; June 15; Gaz. vol. 215; p. 760.
- Carver, John F., Roslindale, Mass. Display-container. No. 1,142,040; June 8; Gaz. vol. 215; p. 365.
- Carver, William C., Tulsa, Okla. Automatic lantern-slide projecting machine. No. 1,165,318; Dec. 21; Gaz. vol. 221; p. 987.
- Cary, John F., McCandless township, Allegheny county, Pa. Brooder. No. 1,149,808; Aug. 10; Gaz. vol. 217; p. 575.
- Cary Manufacturing Co. (See Cary, Spencer C., assignor.)
- Cary Manufacturing Company. (See Miller, George C. D., assignor.)
- Cary Manufacturing Company. (See Solomon, Chapman, Jr., assignor.)
- Cary, Spencer C., New York, assignor to Cary Manufacturing Co., Brooklyn, N. Y. Making bands from sheet metal. No. 1,131,037; Mar. 9; Gaz. vol. 212; p. 450.
- Casabiancas, Fernando, Sabadell, Spain. Spinning-frame. No. 1,147,676; July 20; Gaz. vol. 216; p. 986.
- Casaday, James O., South Bend, Ind. Rotative boiler-tube cleaner. No. 1,133,262; Mar. 30; Gaz. vol. 212; p. 1366.
- Casaday, James O., South Bend, Ind. Clamping and supporting means. No. 1,146,750; July 13; Gaz. vol. 216; p. 641.
- Casale, Antonio, Scranton, Pa. Train-control system. No. 1,148,442; July 27; Gaz. vol. 216; p. 1282.
- Casale, Domenico T., Williamsport, Pa. Nut-lock. No. 1,129,955; Mar. 2; Gaz. vol. 212; p. 42.
- Case, Albert W., Highland Park, Conn. Apparatus for producing pulp for paper manufacture. No. 1,162,135; Nov. 30; Gaz. vol. 220; p. 1490.
- Case, Arthur E. (See Brownrigg, Henderson, and Case.)
- Case, Charles H., Oneco, Conn. Paper drying and finishing machine. No. 1,162,977; Dec. 7; Gaz. vol. 221; p. 84.
- Case, Charles S., Lestershire, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Block-handling device. No. 1,129,071; Feb. 23; Gaz. vol. 211; p. 967.
- Case, Francis M. (See Hub and Case.)
- Case, Francis M., Cleveland, Ohio. Cleaner. No. 1,147,307; July 20; Gaz. vol. 216; p. 854.
- Case, Henry J., Owasco, N. Y., assignor to Acme Harvesting Machine Co., Peoria, Ill. Bundle-carrier. No. 1,142,399; June 8; Gaz. vol. 215; p. 500.
- Case & Martin Co. (See Ehrlich, William, assignor.)
- Case, Robert E., and F. M. Walt, St. Edward, Nebr. Device for controlling the flow of water under pressure. No. 1,132,439; Mar. 16; Gaz. vol. 212; p. 982.
- Caseln Company of America. (See Dunham, Andrew A., assignor.)
- Caselli, Carlo, Brooklyn, N. Y. Combined fire-extinguisher and fire-alarm. No. 1,133,706; Mar. 30; Gaz. vol. 212; p. 1527.
- Casey, Irby B., Klesling Station, Wash. Traction-wheel. No. 1,124,209; Jan. 5; Gaz. vol. 210; p. 345.
- Casey, James D., Baltimore, Md. Automobile-wheel. No. 1,127,960; Feb. 9; Gaz. vol. 211; p. 496.
- Casey, Joseph C., Paoli, Pa. Safety attachment for gas-fittings. No. 1,166,110; Dec. 28; Gaz. vol. 221; p. 1303.
- Casey, Mark J., New Richmond, Wis. Extension-shelves. No. 1,156,755; Oct. 12; Gaz. vol. 219; p. 523.
- Casey, Patrick, Richmond, Ontario, Canada. Latch. No. 1,144,587; June 29; Gaz. vol. 215; p. 1350.
- Casey, Richard F., New York, N. Y. Bath-house. No. 1,135,764; Apr. 13; Gaz. vol. 213; p. 638.
- Casey, Thomas. (See Koski and Casey.)
- Casey, William F. (See Jones, Breakey, and Casey.)
- Casey, William F. J., Kingston, Ontario, Canada, assignor to Locomotive Superheater Company, New York, N. Y. Steam-superheater. No. 1,127,402; Feb. 9; Gaz. vol. 211; p. 298.
- Casey, William F. J., Kingston, Ontario, Canada, assignor to Locomotive Superheater Company, New York, N. Y. Steam-superheater. No. 1,132,069; Mar. 16; Gaz. vol. 212; p. 847.
- Casey, William F. J., Kingston, Ontario, Canada, assignor to Locomotive Superheater Company, New York, N. Y. Steam-superheater. No. 1,140,116; May 18; Gaz. vol. 214; p. 918.
- Casey, William F. J., and G. Cavin, Kingston, Ontario, Canada, assignors to Economy Devices Corporation, New York, N. Y. Reversing-gear for locomotives. No. 1,124,589; Jan. 12; Gaz. vol. 210; p. 530.
- Casey, William J., Chicago, Ill. Shock-absorber. No. 1,135,659; Apr. 13; Gaz. vol. 213; p. 603.
- Casgrain, Louis A., Beverly, Mass. Starting device for internal-combustion motors. No. 1,132,160; Mar. 16; Gaz. vol. 212; p. 880.
- Cash, Albert, Lewiston, Me. Surfacing-machine. No. 1,148,499; Aug. 3; Gaz. vol. 217; p. 5.
- Cash, Clifford E., Detroit, Mich. Hatch-cover. No. 1,152,486; Sept. 7; Gaz. vol. 218; p. 38.
- Cash, William L., and I. B. Crowe, Graham, Ky. Carbid-holder. No. 1,164,465; Dec. 14; Gaz. vol. 221; p. 651.
- Cashen, William P., Lincoln, Ill. Spraying apparatus. No. 1,159,829; Nov. 9; Gaz. vol. 220; p. 532.
- Cashman, Charles E., Fitchburg, Mass. Rubber heel-cushion. No. 1,165,847; Dec. 28; Gaz. vol. 221; p. 1211.
- Cashmore, Montague, London, England. Proportion-calculator. No. 1,163,392; Dec. 7; Gaz. vol. 221; p. 230.
- Caskey, Edgar M., Chicago, Ill., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Pumping and pressure-regulating system. No. 1,151,661; Aug. 31; Gaz. vol. 217; p. 1384.
- Caskey, Edgar M., Chicago, Ill., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Tank. No. 1,157,675; Oct. 26; Gaz. vol. 219; p. 939.
- Casler, Benjamin G., Tonawanda, N. Y. Roofer's spreading-tool for forming cement joints. No. 1,141,103; June 1; Gaz. vol. 215; p. 5.
- Casler, Benjamin G., Tonawanda, N. Y., assignor of one-third to F. W. Ritter, Jr., Washington, D. C., one-sixth to J. Ayrault and one-sixth to M. Ayrault, Tonawanda, N. Y. Reeling and wrapping machine. No. 1,144,348; June 29; Gaz. vol. 215; p. 1271.
- Casler, Herman, Canastota, assignor to Biograph Company, New York, N. Y. Motion-picture camera. No. 1,151,566; Aug. 31; Gaz. vol. 217; p. 1351.
- Casler, John L., Mansfield, Ohio. Safety gas-light. No. 1,125,471; Jan. 19; Gaz. vol. 210; p. 879.
- Casmier, Minnie, assignor to Stephenson Underwear Mills, South Bend, Ind. Union garment. No. 1,161,842; Nov. 30; Gaz. vol. 220; p. 1386.

- Cáspare, Adolf, Rotterdam, Netherlands. Isobarometrically filling vessels and apparatus therefor. No. 1,148,574; Aug. 3; Gaz. vol. 217; p. 33.
- Caspari, Charles, Milwaukee, Wis. Automatic storage-feeder. No. 1,124,559; Jan. 12; Gaz. vol. 210; p. 627.
- Caspary, Willy, Durlach, Germany. Jolt-ramming machine. No. 1,136,313; Apr. 20; Gaz. vol. 213; p. 871.
- Casper, Albert, Vallejo, Cal. Vehicle-check. No. 1,155,549; Oct. 5; Gaz. vol. 219; p. 79.
- Casper, Albert, Vallejo, Cal. Burglar and signal device. No. 1,169,496; Nov. 16; Gaz. vol. 220; p. 818.
- Casper, John R., Washington, D. C. Shade-bracket. No. 1,133,360; Mar. 30; Gaz. vol. 212; p. 1401.
- Casper, John R., Washington, D. C. Signaling device. No. 1,133,361; Mar. 30; Gaz. vol. 212; p. 1401.
- Casper, John R., Washington, D. C. Milk-bottle holder. No. 1,158,983; Nov. 2; Gaz. vol. 220; p. 199.
- Caspers, George A., and A. Lieberman, New York, N. Y. Hygienic cigar-cutter. No. 1,124,590; Jan. 12; Gaz. vol. 210; p. 530.
- Caspers, George A., and N. S. Deutsch, New York, N. Y. Milk-bottle cap. No. 1,163,968; Dec. 14; Gaz. vol. 221; p. 477.
- Cass, Harry S., Chicago, Ill., assignor to Lever-Lock Company. Detachable gear-shifting lever. No. 1,156,272; Oct. 12; Gaz. vol. 219; p. 353.
- Cassady, Benjamin C., Portland, Oreg. Scissors. No. 1,165,226; Dec. 21; Gaz. vol. 221; p. 958.
- Cassady, George, New Westminster, British Columbia, Canada, and C. F. Mendham, London, England. Mechanism for the conversion of reciprocating into rotary motion. No. 1,132,161; Mar. 16; Gaz. vol. 212; p. 880.
- Cassady, James B., assignor to The Perfect Bottle Cap Company, Baltimore, Md. Bottle-sealing machine. No. 1,161,924; Nov. 30; Gaz. vol. 220; p. 1415.
- Cassard, Harry L., Philadelphia, Pa. Climbing-ball toy. No. 1,154,094; Sept. 21; Gaz. vol. 218; p. 683.
- Cassard, Vernon, Stamford, Conn. Apparatus for killing poultry. No. 1,133,362; Mar. 30; Gaz. vol. 212; p. 1402.
- Cassel, Hjalmar S., Stockholm, Sweden. Electrical wire-regulating apparatus. No. 1,164,920; Dec. 21; Gaz. vol. 221; p. 850.
- Cassel, Maria M., Norristown, Pa. Stove. No. 1,151,662; Aug. 31; Gaz. vol. 217; p. 1384.
- Cassella Color Company. (See Kallscher and Nissen, assignors.)
- Cassella Color Company. (See Klingemann, Felix, assignor.)
- Casselman, Floyd, *et al.* (See Freeman, Malon E., assignor.)
- Cassidy, Charles L., Orange, N. J. Socket for electric lamps. No. 1,140,498; May 25; Gaz. vol. 214; p. 1087.
- Cassidy, Frederick W., Philadelphia, Pa. Non-refillable bottle. No. 1,156,346; Oct. 12; Gaz. vol. 219; p. 378.
- Cassidy, James, Chicago, Ill. Track-sanding device. No. 1,148,829; Aug. 3; Gaz. vol. 217; p. 124.
- Cassidy, James, Chicago, Ill. Removable handle for rock-shafts. No. 1,160,259; Nov. 16; Gaz. vol. 220; p. 735.
- Cassimus, George S. A., St. Louis, Mo. Varnish reviving and polishing composition. No. 1,161,187; Nov. 23; Gaz. vol. 220; p. 1110.
- Cassity, Jessie W., Ironmound, Ky. Car-replacer. No. 1,128,583; Feb. 16; Gaz. vol. 211; p. 761.
- Cassity, William J., Guthrie, Okla. Stump-burner. No. 1,126,388; Jan. 26; Gaz. vol. 210; p. 1241.
- Cast, George, Marion, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill. Scraper for furrow-operators. No. 1,129,848; Mar. 2; Gaz. vol. 212; p. 6.
- Cast Steel Pilot Company. (See Cox, Millard F., assignor.)
- Cast Steel Pilot Company. (See Harrison and Knox, assignors.)
- Castanho, Elisario, Sao Paulo, Brazil. Brake for railway-cars. No. 1,146,784; July 20; Gaz. vol. 216; p. 673.
- Castell, Frank A., Washington, D. C., and R. M. Mayfield, Kingwood, W. Va. Miner's lamp-attachment means. No. 1,148,889; Aug. 3; Gaz. vol. 217; p. 143.
- Casteran, Juan G., Buenos Aires, Argentina. Joint for flexible rails. No. 1,130,145; Mar. 2; Gaz. vol. 212; p. 105.
- Casteran, Juan G., Buenos Aires, Argentina. Gearing for tractors. No. 1,138,452; May 4; Gaz. vol. 214; p. 257.
- Casteran, Juan G., Buenos Aires, Argentina. Tractor. No. 1,138,453; May 4; Gaz. vol. 214; p. 258.
- Casterline, Cyrus L., *et al.* (See Crofoot, Edwin H., assignor.)
- Castiglioni, Ferruccio, Wilmette, Ill. System of electrical distribution. No. 1,160,842; Nov. 16; Gaz. vol. 220; p. 942.
- Castle, Ebert H., Quincy, Ill. Heating-stove. No. 1,140,950; May 25; Gaz. vol. 214; p. 1244.
- Castle, H. J., *et al.* (See Moore, Charles P., assignor.)
- Castle, John H., and W. G. Rogers, Painted Post, N. Y., assignors to Ingersoll-Rand Company, Jersey City, N. J. Pressure-controlled valve. No. 1,138,278; May 4; Gaz. vol. 214; p. 194.
- Castlebone Company. (See Schloss, Joseph W., assignor.)
- Castlebone Company. (See Schloss, Joseph W. and M. W., assignors.)
- Castona Improved Process Co. (See Castona, John H., assignor.)
- Castona, John H., Moss Point, assignor to Castona Improved Process Co., Gulfport, Miss. Obtaining turpentine and resin from resinous wood. No. 1,149,027; Aug. 3; Gaz. vol. 217; p. 192.
- Caswell, Annie E., *et al.* (See Caswell, William B., assignor.)
- Caswell, Herbert M., and F. Sherer, Oatman, Ariz. Can-opener. No. 1,153,600; Sept. 14; Gaz. vol. 218; p. 477.
- Caswell, William B., assignor of one-eighth to G. A. Simmons and one-eighth to A. E. Caswell, Newport, R. I. Window-shade-roller bracket. No. 1,150,339; Aug. 17; Gaz. vol. 217; p. 827.
- Catchings, Bob, Birmingham, Ala. Water-closet bowl. No. 1,155,885; Oct. 5; Gaz. vol. 219; p. 195.
- Cate, Charles S., Easthampton, Mass. Cop-skewer. No. 1,151,864; Aug. 31; Gaz. vol. 217; p. 1455.
- Cate, Charles W. (See Smith, Richard, assignor.)
- Cater, Harvey W., Smeadley, Ark. Tongue or shaft releaser. No. 1,164,466; Dec. 14; Gaz. vol. 221; p. 651.
- Cater, Theodore T., Columbus, Kans. Dental vulcanizer attachment. No. 1,157,759; Oct. 26; Gaz. vol. 219; p. 969.
- Cates, Homer F., assignor of one-half to J. H. Richa, Kansas City, Mo. Detachable storm-collar for coats. No. 1,160,378; Nov. 16; Gaz. vol. 220; p. 776.
- Cather, Kingman N., Chicago, Ill. Tie. No. 1,149,247; Aug. 10; Gaz. vol. 217; p. 372.
- Cathey, George A. (See Johnson and Cathey.)
- Cattlett, Harry, *et al.* (See Robinson, Frank, assignor.)
- Catlin, Abel D., assignor to J. M. Card Lumber Co., Chattanooga, Tenn. Machine for making chock-blocks. No. 1,133,931; Mar. 30; Gaz. vol. 212; p. 1603.
- Catlin, Ivan L., Herrin, Ill. Land-marker for corn-planners. No. 1,128,408; Feb. 16; Gaz. vol. 211; p. 699.
- Caton, Zeith H., Mattoon, Ill. Sleigh-runner for automobiles. No. 1,164,574; Dec. 14; Gaz. vol. 221; p. 687.
- Cattori, Michelangelo. (See Pennati, and Cattori.)
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Phonograph. No. 1,126,703; Feb. 2; Gaz. vol. 211; p. 12.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Tablet-support for talking-machines. No. 1,128,756; Feb. 16; Gaz. vol. 211; p. 819.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Throw-off mechanism for fishing-reels. No. 1,135,497; Apr. 13; Gaz. vol. 213; p. 544.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Talking-machine. No. 1,137,001; Apr. 27; Gaz. vol. 213; p. 1154.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Stylus for sound-reproducing machines. No. 1,138,354; May 4; Gaz. vol. 214; p. 223.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Universal tone-arm for talking-machines. No. 1,147,143; July 20; Gaz. vol. 216; p. 798.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Adapter for talking-machines. No. 1,156,120; Oct. 12; Gaz. vol. 219; p. 306.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Spring-motor for talking-machines. No. 1,162,033; Nov. 30; Gaz. vol. 220; p. 1452.
- Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Mandrel for talking-machines. No. 1,162,034; Nov. 30; Gaz. vol. 220; p. 1453.
- Cauger, Arthur V., Kansas City, Mo. Lantern-slide. No. 1,142,143; June 8; Gaz. vol. 215; p. 408.
- Caughey, Edward G., Sewickley, Pa., assignor of one-half to E. H. Schane, Youngstown, Ohio. Sheet-metal wall. No. 1,153,601; Sept. 14; Gaz. vol. 218; p. 478.
- Caughey, Robert C., assignor to Grand Detour Plow Company, Dixon, Ill. Clutch mechanism. No. 1,146,135; July 13; Gaz. vol. 216; p. 426.
- Caughling, Frank W., assignor to The National Railway Equipment Company, Toledo, Ohio. Dust-guard. No. 1,137,120; Apr. 27; Gaz. vol. 213; p. 1197.
- Caughron, Charles D., Santa Ana, Cal. Gravity-operated level. No. 1,141,315; June 1; Gaz. vol. 215; p. 81.
- Caulk, Thomas F., Old Ripley, Ill. Wagon-brake. No. 1,147,677; July 20; Gaz. vol. 216; p. 986.
- Caulkins, Theodore P., assignor to E. L. Krag, Chicago, Ill. Voting-machine. No. 1,148,575; Aug. 3; Gaz. vol. 217; p. 33.
- Causey, Thomas S., assignor to R. B. Kelley, Dallas, Tex. Air-pump. No. 1,147,002; July 20; Gaz. vol. 216; p. 750.
- Caution, Thomas J., Nowata, Okla. Combined penholder and blotter. No. 1,158,442; Nov. 2; Gaz. vol. 220; p. 11.
- Cavallini, Virginio, Spezia, Italy. Submarine with detachable conning-tower for life-saving purposes. No. 1,159,745; Nov. 9; Gaz. vol. 220; p. 501.
- Cavanagh, Anthony B. (See Wooden, Earle M., assignor.)
- Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. End-lasting machine. No. 1,130,142; Mar. 2; Gaz. vol. 212; p. 104.
- Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Jointing-machine. No. 1,150,849; Aug. 24; Gaz. vol. 217; p. 1062.

Alphabetical list of patentees—Continued.

- Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-laying machine. No. 1,161,843; Nov. 30; Gaz. vol. 220; p. 1386.
- Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,163,596; Dec. 7; Gaz. vol. 221; p. 301.
- Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,163,599; Dec. 7; Gaz. vol. 221; p. 302.
- Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-lasting machine. No. 1,163,600; Dec. 7; Gaz. vol. 221; p. 303.
- Cavanagh, W. J., *et al.* (See Andersen and Mink, assignors.)
- Cavanaugh, James F. (See Dow and Cavanaugh.)
- Cavanna, Larry, Fairmont, W. Va. Automatic adjusting pipe-wrench. No. 1,138,728; May 11; Gaz. vol. 214; p. 391.
- Cave, Daniel, assignor of one-third to H. M. George and one-third to H. Bowman, Lincoln, Nebr. Spring-wheel. No. 1,158,373; Oct. 26; Gaz. vol. 219; p. 1184.
- Caven, Alva H., Youngwood, Pa. Trolley contact. No. 1,138,279; May 4; Gaz. vol. 214; p. 195.
- Caven, Alva H., Youngwood, Pa. Electric signal device. No. 1,157,296; Oct. 19; Gaz. vol. 219; p. 745.
- Caven, Trevor M., Chicago, Ill., assignor to Kieselguhr Company of America, Los Angeles, Cal. Making molded articles. No. 1,139,637; May 18; Gaz. vol. 214; p. 747.
- Caven, Walter L., assignor of one-half to W. Macleod, Cincinnati, Ohio. Powdered-fuel feeder. No. 1,162,221; Nov. 30; Gaz. vol. 220; p. 1518.
- Caverly, Robert B., and A. B. Bell, assignors to Hale and Kilburn Company, Philadelphia, Pa. Gas-range. No. 1,159,896; Nov. 9; Gaz. vol. 220; p. 555.
- Caverly, Robert B., and A. B. Bell, assignors to Hale and Kilburn Company, Philadelphia, Pa. Support for gas-ranges. No. 1,162,451; Nov. 30; Gaz. vol. 220; p. 1558.
- Caverno, Xenophon, Kewanee, Ill. Septic tank. No. 1,148,500; Aug. 3; Gaz. vol. 217; p. 5.
- Caverno, Xenophon, Kewanee, Ill. Belt-tightener. No. 1,163,891; Dec. 14; Gaz. vol. 221; p. 450.
- Caviechi, Ercole, Quincy, Mass. Polishing-machine for floors. No. 1,126,615; Jan. 26; Gaz. vol. 210; p. 1324.
- Caviechi, Ercole, Quincy, Mass. Bush-hammer. No. 1,148,115; Aug. 3; Gaz. vol. 217; p. 220.
- Cavin, Gustave. (See Casey and Cavin.)
- Caws, Stanley W., Lac Ste. Anne, Alberta, Canada. Combined closure-cap and styptic-holder. No. 1,144,892; June 29; Gaz. vol. 215; p. 1457.
- Cayford, Benjamin F., Skowhegan, Me. Overdraw-bridle. No. 1,157,207; Oct. 19; Gaz. vol. 219; p. 712.
- Caylor, Harry D., and W. A. Scott, assignors to National Coning Machinery Company, Indianapolis, Ind. Sheet-feeding mechanism. No. 1,147,308; July 20; Gaz. vol. 216; p. 855.
- Caylor, Harry D., and W. A. Scott, assignors to National Coning Machinery Company, Indianapolis, Ind. Paper-bottle-bottoming machine. No. 1,164,921; Dec. 21; Gaz. vol. 221; p. 850.
- Caylor, Harry D., and W. A. Scott, assignors to National Coning Machinery Company, Indianapolis, Ind. Machine for making paper vessels. No. 1,164,922; Dec. 21; Gaz. vol. 221; p. 850.
- Cavacca, Joseph, Sacramento, Cal. Solder. No. 1,161,612; Nov. 23; Gaz. vol. 220; p. 1260.
- Cechal, Barbara, executrix. (See Cechal, Ferdinand, assignor.)
- Cechal, Ferdinand, deceased; B. Cechal, executrix, assignor of forty one-hundredths to said B. Cechal, individually, thirty one-hundredths to E. Tredup, and thirty one-hundredths to E. Freyer, Saratoga Springs, N. Y. Toilet-seat. No. 1,130,068; Mar. 2; Gaz. vol. 212; p. 79.
- Cederholm, Charles L., Jamestown, N. Y. Bottle-carrier. No. 1,151,163; Aug. 24; Gaz. vol. 217; p. 1168.
- Ceglowski, Ceslaw S., Newark, N. J. Match-safe. No. 1,161,613; Nov. 23; Gaz. vol. 220; p. 1260.
- Cejka, Louis. (See Vosatka and Cejka.)
- Celfor Tool Company *et al.* (See Burrows and Ross, assignors.)
- Celluloid Company, The. (See Lindsay, William G., assignor.)
- Celmo, Nicola C. (See Means and Celmo.)
- Cement Products Company. (See Singers, Earl H., assignor.)
- Centerfreze Ice Process Company, The. (See Gainer, Edward E., assignor.)
- Centervall, Hugo. (See Manly and Centervall.)
- Central Foundry Company, The. (See Batt, John B., assignor.)
- Central Glass Works. (See Schaub, Charles M., assignor.)
- Central Hardware Company, The. (See Vondenbosch, Raymond H., assignor.)
- Central Oil & Gas Stove Company. (See White, Fred E., assignor.)
- Central Railway Signal Company. (See Clark, Robert M., assignor.)
- Central Railway Signal Company. (See Clark, Ambrose, and Clark, assignors.)
- Central Railway Signal Company. (See Dutcher, Frank, assignor.)
- Central Tool Company, The. (See Jaques, Fernando O., Jr., assignor.)
- Central Trust Company of Illinois, trustee. (See Jones, Harry S., assignor.)
- Central Trust Company of New York, trustee. (See Bliss, William L., assignor.)
- Central Trust Company of New York, trustee. (See Engel, Frank, assignor.)
- Central Trust Company of New York, trustee. (See McElroy, James F., assignor.)
- Central Trust Company of New York, trustee. (See Moskowitz, Morris, assignor.)
- Central Trust Company of New York, trustee. (See Turbayne, William A., assignor.)
- Centrifugal Aeroplane Company, The. (See McRae and Blom, assignors.)
- Centrifugal Machinery Company. (See Haskell, Charles O., assignor.)
- Century Electric Company. (See Pillsbury, Edwin S., assignor.)
- Cera, David P., Highland Park, Ill. Pencil-sharpener. No. 1,125,060; Jan. 19; Gaz. vol. 210; p. 733.
- Ceramic Machinery Company, The. (See Goldsmith, Frederick E., assignor.)
- Cerbo, Ferdinando, Providence, R. I. Urethroscope or endoscope. No. 1,139,015; May 11; Gaz. vol. 214; p. 494.
- Černý, Alois, Shiner, Tex. Carbureter. No. 1,157,507; Oct. 19; Gaz. vol. 219; p. 819.
- Cerny, Charles. (See Cerny, Joseph and C.)
- Cerny, Joseph and C., St. Louis, Mo. Vehicle-wheel. No. 1,139,638; May 18; Gaz. vol. 214; p. 747.
- Cerruti, Antonio, San Francisco, Cal. Syrruping-machine. No. 1,154,374; Sept. 21; Gaz. vol. 218; p. 780.
- Cervello, Umberto M., assignor of two-fifths to C. L. Lehmann, Spokane, Wash. Concrete-reinforcing structure. No. 1,161,112; Nov. 23; Gaz. vol. 220; p. 1082.
- Cervenka, Emanuel, Paris, France. Stereo-cinematograph. No. 1,163,892; Dec. 14; Gaz. vol. 221; p. 451.
- Cesar, Ervin, Anadarko, Okla. Leather-sole cutter. No. 1,150,928; Aug. 24; Gaz. vol. 217; p. 1088.
- Cessna, John D., Minden Mines, Mo. Door-hasp. No. 1,149,809; Aug. 10; Gaz. vol. 217; p. 576.
- Cevasco, Cavaguaro & Ambrette. (See Ambrette, Conrad, assignor.)
- Chab, Joseph, Dorchester, Nebr. Hoisting-hook. No. 1,150,500; Aug. 17; Gaz. vol. 217; p. 883.
- Chabault, Emile, Marseille, France. Telephonograph. No. 1,135,436; Apr. 13; Gaz. vol. 213; p. 523.
- Chabre, Theodore, Alameda, Cal. Combination compasses and dividers. No. 1,140,800; May 25; Gaz. vol. 214; p. 1188.
- Chace, Ernest M., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Vapor oiling system. No. 1,125,031; Jan. 12; Gaz. vol. 210; p. 686.
- Chace, John B., South Attleboro, Mass., assignor to New England Butt Company, Providence, R. I. Thread-carrier for braiding-machines. No. 1,125,651; Jan. 19; Gaz. vol. 210; p. 943.
- Chace, Richard B., assignor to The Whitin Machine Works, Whitinsville, Mass. Combing-machine. No. 1,133,006; Mar. 23; Gaz. vol. 212; p. 1240.
- Chadbourne, Joseph R., *et al.* (See Reams and Hopkins, assignors.)
- Chadd, William, Wilkes-Barre, Pa. Paint. No. 1,134,819; Apr. 6; Gaz. vol. 213; p. 267.
- Chaddock, Charles E. and R. G., and G. A. Kurz, Zanesville, Ohio. Reversible glove. No. 1,136,587; Apr. 20; Gaz. vol. 213; p. 970.
- Chaddock, Richard G. (See Chaddock and Kurz.)
- Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)
- Chadwick, Everett D. (See Davis and Chadwick.)
- Chadwick, Everett D., trustee. (See Nickerson, William E., assignor.)
- Chadwick, Harry A. (See Walter, Edward L. and M., assignors.)
- Chadwick, Lee S., assignor to The Cleveland Foundry Company, Cleveland, Ohio. Closure-retaining device. No. 1,126,389; Jan. 26; Gaz. vol. 210; p. 1241.
- Chadwick, Lee S., assignor to The Cleveland Foundry Company, Cleveland, Ohio. Stove construction. No. 1,136,935; Apr. 27; Gaz. vol. 213; p. 1129.
- Chadwick, Lee S., assignor to The Cleveland Foundry Company, Cleveland, Ohio. Liquid-dispensing device. No. 1,137,574; Apr. 27; Gaz. vol. 213; p. 1358.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Foundry Company, Cleveland, Ohio. Oil-stove. No. 1,138,536; May 4; Gaz. vol. 214; p. 285.
- Chadwick, Lee S., assignor to The Cleveland Foundry Company, Cleveland, Ohio. Burner. No. 1,138,729; May 11; Gaz. vol. 214; p. 391.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Foundry Company, Cleveland, Ohio. Stove. No. 1,140,874; May 25; Gaz. vol. 214; p. 1216.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Foundry Company, Cleveland, Ohio. Heat-distributor. No. 1,150,172; Aug. 17; Gaz. vol. 217; p. 769.
- Chaffee, Alfred M., Oxford, Mass. Mechanism for making cloth boards. No. 1,138,537; May 4; Gaz. vol. 214; p. 285.

Alphabetical list of patentees—Continued.

- Chaffee, Alfred M., Oxford, Mass. Means for delivering moistened or glue-coated paper and similar fabrics. No. 1,138,538; May 4; Gaz. vol. 214; p. 286.
- Chaffee, Alney E., et al. (See Salkeld, Eugene W., assignor.)
- Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Trap-door for railway-car platforms. No. 1,140,951; May 25; Gaz. vol. 214; p. 1244.
- Chalfant, Joseph G., and H. G. Haun, Akron, Ohio. Core for use in molds and forms. No. 1,140,499; May 25; Gaz. vol. 214; p. 1087.
- Chalfant, Walter B. (See Davis, Ray W., assignor.)
- Chalfant, Walter B. (See Davis and Chalfant.)
- Challer, Marc, Paris, France. Reflector-arm for electric lamps. No. 1,165,944; Dec. 28; Gaz. vol. 221; p. 1245.
- Chalk, Alvin T., Baltimore, Md. Plant and flower stand. No. 1,153,028; Sept. 7; Gaz. vol. 218; p. 237.
- Chalker, Charles A., Traverse City, Mich. Bed-spring. No. 1,135,877; Apr. 13; Gaz. vol. 213; p. 678.
- Chalker, Edward G., Bancroft, Mich. Lock-nut. No. 1,164,575; Dec. 14; Gaz. vol. 221; p. 687.
- Challeen, Albert, Minneapolis, Minn. Combination mail and parcel-post box. No. 1,137,740; May 4; Gaz. vol. 214; p. 7.
- Challenge Machinery Company, The. (See McCabe, George E., assignor.)
- Challenge Machinery Company, The. (See Stonemetz, John H., assignor.)
- Challiner, Charles S. and J. A., Manchester, England. Metallic wheel-spoke. No. 1,152,292; Aug. 31; Gaz. vol. 217; p. 1602.
- Challiner, Joseph A. (See Challiner, Charles S. and J. A.)
- Chalmers, Harry B., Dedham, Mass. Aeroplane. No. 1,145,972; July 13; Gaz. vol. 216; p. 368.
- Chalmers, Harry B., Dedham, Mass. Aeroplane. No. 1,145,973; July 13; Gaz. vol. 216; p. 369.
- Chalmers, Harvey, assignor to H. Chalmers & Son, Amsterdam, N. Y. Button-cutting machine. No. 1,129,166; Feb. 23; Gaz. vol. 211; p. 1000.
- Chalmers, Hugh. (See Cleal, Joseph P., assignor.)
- Chalmers Motor Company. (See Dunham, George W., assignor.)
- Chalmers Motor Company. (See Simonsen, Johan C., assignor.)
- Chalmers & Son, Harvey. (See Chalmers, Harvey, assignor.)
- Chaloner, Thomas T., New York, N. Y. Automatic train-stop device. No. 1,164,467; Dec. 14; Gaz. vol. 221; p. 651.
- Chamberlain, Minor E., Lebanon, Mo. Tie. No. 1,149,632; Aug. 10; Gaz. vol. 217; p. 514.
- Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Company. Storage-battery cell. No. 1,141,526; June 1; Gaz. vol. 215; p. 157.
- Chamberlin, Albert L., Des Moines, Iowa. Storage-battery plate. No. 1,135,499; Apr. 13; Gaz. vol. 213; p. 544.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Apparatus for the production of glass articles. No. 1,124,698; Jan. 12; Gaz. vol. 210; p. 569.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Machine for the manufacture of blown-glass articles. No. 1,124,699; Jan. 12; Gaz. vol. 210; p. 570.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Blowpipe-receiving device for glass-blowing machines. No. 1,124,700; Jan. 12; Gaz. vol. 210; p. 570.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Machine for the manufacture of blown-glass articles. No. 1,124,701; Jan. 12; Gaz. vol. 210; p. 571.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Apparatus for the production of blown-glass articles. No. 1,124,702; Jan. 12; Gaz. vol. 210; p. 571.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Glass-working apparatus. No. 1,148,212; July 27; Gaz. vol. 216; p. 1202.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Production of formed blanks upon gathering-irons. No. 1,148,213; July 27; Gaz. vol. 216; p. 1202.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Apparatus for working glass. No. 1,148,214; July 27; Gaz. vol. 216; p. 1202.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Production of blown glass articles. No. 1,148,215; July 27; Gaz. vol. 216; p. 1203.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Machine for forming glass blanks. No. 1,148,216; July 27; Gaz. vol. 216; p. 1203.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Mold mechanism for glass-blowing machines. No. 1,156,056; Oct. 12; Gaz. vol. 219; p. 280.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Mold for glass-blowing machines. No. 1,156,057; Oct. 12; Gaz. vol. 219; p. 280.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Mold for glass-blowing machines. No. 1,156,058; Oct. 12; Gaz. vol. 219; p. 281.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Glass-blowing mold. No. 1,156,756; Oct. 12; Gaz. vol. 219; p. 523.
- Chamberlin, Benjamin D., Corning, N. Y., assignor to Empire Machine Company, Portland, Me. Take-off mechanism for glass-blowing pipes. No. 1,156,858; Oct. 12; Gaz. vol. 219; p. 561.
- Chamberlin, Benjamin D., assignor to Corning Glass Works, Corning, N. Y. Apparatus for drawing glass tubes. No. 1,163,969; Dec. 14; Gaz. vol. 221; p. 477.
- Chamberlin, Benjamin D., Washington, D. C., assignor to Empire Machine Company, Portland, Me. Glass-blowing machine. No. 1,137,304; Apr. 27; Gaz. vol. 213; p. 1265.
- Chamberlin, Benjamin F., Jr., Boston, and J. N. Moulton, Haverhill, assignors to Massachusetts Chemical Company, Boston, Mass. Apparatus for treating coated fabrics. No. 1,131,993; Mar. 16; Gaz. vol. 212; p. 820.
- Chamberlin, Charles C., Washington, Pa. Cooperating keys. No. 1,137,256; Apr. 27; Gaz. vol. 213; p. 1247.
- Chamberlin, Clarence P. (See Ackerman and Chamberlin.)
- Chamberlin, Clarence P., and C. T. Fezzey, Detroit, Mich. Double envelop. No. 1,141,688; June 1; Gaz. vol. 215; p. 214.
- Chamberlin, Edwin, and A. M. Gardner, Avella, Pa.; said Chamberlin assignor to said Gardner. Liquid-elevating apparatus. No. 1,131,209; Mar. 9; Gaz. vol. 212; p. 509.
- Chamberlin, John, Flat Rock, Mich. Tongue-truck turning attachment for binding-machines. No. 1,143,890; June 22; Gaz. vol. 215; p. 1080.
- Chambers, Allison R., New Glasgow, Nova Scotia, Canada. Ore dump-car. No. 1,135,993; Apr. 20; Gaz. vol. 213; p. 760.
- Chambers, Benjamin L., Fruita, Colo. Attachment for flushing-tanks. No. 1,149,896; Aug. 10; Gaz. vol. 217; p. 608.
- Chambers Brothers Company. (See King, Howard K., assignor.)
- Chambers, Clarence H., Brooklyn, assignor of one-half to M. Eichengreen, New York, N. Y. Envelop. No. 1,125,472; Jan. 19; Gaz. vol. 210; p. 879.
- Chambers, James H., Baltimore, Md., assignor to P. Lortillard & Co., Jersey City, N. J. Machine for making tapered or conical cigars or cigarettes. No. 1,124,860; Jan. 12; Gaz. vol. 210; p. 627.
- Chambers, John A., Newburg, Mo. Apparatus for receiving and delivering mail. No. 1,150,340; Aug. 17; Gaz. vol. 217; p. 827.
- Chambers, Robert L., Elmore, Broxburn, Scotland. Apparatus for sampling liquids. No. 1,146,402; July 13; Gaz. vol. 216; p. 519.
- Chambers, Thomas, Chicago, Ill. Loose-leaf binder. No. 1,142,021; June 8; Gaz. vol. 215; p. 366.
- Chambers, Warren. (See McCallum and Chambers.)
- Chambers, William G., Kansas City, Mo. Combined letter-sheet and envelop. No. 1,147,925; July 27; Gaz. vol. 216; p. 1099.
- Chambersburg Engineering Company. (See Derbyshire, Henry E., assignor.)
- Chambersburg Engineering Company. (See Longaker, Albert A., assignor.)
- Chambon, Louis, Paris, France. Apparatus for distributing and filling cigarettes into cases. No. 1,156,465; Oct. 12; Gaz. vol. 219; p. 422.
- Champ, John K., Paris, Ky. Fillers. No. 1,123,243; Jan. 5; Gaz. vol. 210; p. 14.
- Champ, John K., Paris, Ky. Drinking-cup. No. 1,142,304; June 8; Gaz. vol. 215; p. 464.
- Champ, John K., Paris, Ky. Open hook-link. No. 1,153,762; Sept. 14; Gaz. vol. 218; p. 532.
- Champ, John K., Paris, Ky. Shoe-hook. No. 1,159,648; Nov. 9; Gaz. vol. 220; p. 465.
- Champ, Joseph H., Cleveland, Ohio. Bottle-filling device. No. 1,154,746; Sept. 28; Gaz. vol. 218; p. 935.
- Champagne, Albert E. (See Mercer and Champagne.)
- Champion Blower & Forge Company, The. (See Keiper, Henry B., assignor.)
- Champion Chemical Company, The. (See Johnson, Charles L., assignor.)
- Champion Ignition Company. (See Schmidt, Albert; assignor.)
- Champion, John H. W., Hermon, Cal. Telephone attachment. No. 1,153,029; Sept. 7; Gaz. vol. 218; p. 237.
- Champion Metal Weather Strip and Parting Bead Company. (See Gifford, Harry E., assignor.)
- Champion Metal Weather Strip and Parting Bead Company. (See McGee, Charles H., assignor.)
- Champion, Rody A., Denison, Iowa. Beer-faucet. No. 1,162,035; Nov. 30; Gaz. vol. 220; p. 1453.
- Champion Safety Lock Company, The. (See Hasenpflug, Ezra W., assignor.)

Alphabetical list of patentees—Continued.

- Champion Shoe Machinery Company. (See Corcoran, George L., assignor.)
- Champion Shoe Machinery Company. (See Corcoran and Dolyne, assignors.)
- Champion Shoe Machinery Company. (See Corcoran, Dolyne, and Schoenky, assignors.)
- Champion Tool Company, The. (See De Arment, George B., assignor.)
- Chance, Albert B., Centralla, Mo. Land-anchor. No. 1,134,820; Apr. 6; Gaz. vol. 213; p. 267.
- Chance, Roy, San Francisco, Cal. Oil-burner. No. 1,152,293; Aug. 31; Gaz. vol. 217; p. 1602.
- Chancellor, George T., Sardis, Okla. Cutting, drawing, and measuring instrument. No. 1,159,569; Nov. 9; Gaz. vol. 220; p. 437.
- Chandlee, George H., Washington, D. C. Hose-supporter. No. 1,143,506; June 15; Gaz. vol. 215; p. 923.
- Chandler, Daniel L., Ayer, assignor to Fitchburg Bobbin Cleaning Machine Co., Fitchburg, Mass. Bobbin-cleaning mechanism. No. 1,145,000; July 6; Gaz. vol. 216; p. 8.
- Chandler, Daniel L., Ayer, assignor to Fitchburg Bobbin Cleaning Machine Co., Fitchburg, Mass. Bobbin-stripping machine. No. 1,147,678; July 20; Gaz. vol. 216; p. 986.
- Chandler Development Corporation. (See Chandler, Edward F., assignor.)
- Chandler, Edward F., Brooklyn, N. Y., assignor to Chandler Development Corporation. Gyroscopically-controlled torpedo. No. 1,127,403; Feb. 9; Gaz. vol. 211; p. 298.
- Chandler, Edward M., New Kensington, Pa. Camp cooking outfit. No. 1,163,211; Dec. 7; Gaz. vol. 221; p. 167.
- Chandler, Edwin N., Braintree, Mass. Edge-setting machine. No. 1,144,170; June 22; Gaz. vol. 215; p. 1181.
- Chandler, Edwin N., Braintree, Mass. Electrically-heated stenciling-machine. No. 1,144,809; June 29; Gaz. vol. 215; p. 1429.
- Chandler, Edwin N., Braintree, assignor to Simplex Electric Heating Company, Boston, Mass. Electric embossing apparatus. No. 1,141,689; June 1; Gaz. vol. 215; p. 214.
- Chandler, Elbert G., Portland, Oreg. Logging-truck. No. 1,140,875; May 25; Gaz. vol. 214; p. 1217.
- Chandler Engine Valve Company. (See Chandler, Milford G., assignor.)
- Chandler, Milford G., assignor to Chandler Engine Valve Company, Chicago, Ill. Valve device for internal-combustion engines. No. 1,128,757; Feb. 16; Gaz. vol. 211; p. 820.
- Chandler, Milford G., assignor to Chandler Engine Valve Company, Chicago, Ill. Valve device for internal-combustion engines. No. 1,139,101; May 11; Gaz. vol. 214; p. 525.
- Chandler, William L., Mishawaka, Ind. Churn for separating butter from milk and cream. No. 1,132,702; Mar. 23; Gaz. vol. 212; p. 1127.
- Chaney, Oscar E., assignor of one-half to P. Loretta, Steubenville, Ohio. Gas-heater. No. 1,150,998; Aug. 24; Gaz. vol. 217; p. 1112.
- Channell, Charles A., Chicago, Ill. Mop-head. No. 1,148,955; Aug. 3; Gaz. vol. 217; p. 166.
- Channell, Levi G., Palestine, W. Va. Nut-lock. No. 1,140,876; May 25; Gaz. vol. 214; p. 1217.
- Chantler, James D., Freeport, N. Y. Planter. No. 1,142,400; June 8; Gaz. vol. 215; p. 500.
- Chantler, John A., et al. (See Pringle, John L., assignor.)
- Chanut, Auguste J., Kennedy, Saskatchewan, Canada. Operating device for whips. No. 1,130,668; Mar. 2; Gaz. vol. 212; p. 289.
- Chanute, Paul F., assignor of one-half to G. A. Llamblas, New Orleans, La. Wheel-mount. No. 1,140,573; May 25; Gaz. vol. 214; p. 1112.
- Chapin, Charles E. (See Hetherington and Chapin.)
- Chapin, John J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Type-writer escapement mechanism. No. 1,123,244; Jan. 5; Gaz. vol. 210; p. 14.
- Chapin, John J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Tabulating mechanism for adding-machines. No. 1,135,500; Apr. 13; Gaz. vol. 213; p. 545.
- Chapin, John J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Type-writer carriage mechanism. No. 1,139,102; May 11; Gaz. vol. 214; p. 525.
- Chapin, John J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Type-writer ribbon mechanism. No. 1,166,111; Dec. 28; Gaz. vol. 221; p. 1304.
- Chapin, Mason I., Greeley, Colo. Head-gate for irrigation-ditches. No. 1,125,961; Jan. 26; Gaz. vol. 210; p. 1085.
- Chapin, Maurice S., Springfield, Mass. Vehicle-frame. No. 1,153,602; Sept. 14; Gaz. vol. 218; p. 478.
- Chapin, Robert M., Washington, D. C. Preparation of a concentrated animal-dip. No. 1,137,844; May 4; Gaz. vol. 214; p. 43.
- Chapleau, Phileas T., assignor to American Cutlery Company, Chicago, Ill. Guard for punch-presses. No. 1,153,603; Sept. 14; Gaz. vol. 218; p. 478.
- Chaplin-Fulton Manufacturing Company, The. (See Fulton, Louis B., assignor.)
- Chaplin, Manley J., assignor of one-half to F. C. Furth, Seattle, Wash. Riveting-machine. No. 1,144,297; June 22; Gaz. vol. 215; p. 1224.
- Chaplin, Merle P., Portland, assignor to Keyes Fibre Company, Waterville, Me. Apparatus for making pulp articles. No. 1,158,634; Nov. 2; Gaz. vol. 220; p. 79.
- Chaplin, Merle P., Fairfield, assignor to Keyes Fibre Company, Waterville, Me. Apparatus for making pulp articles. No. 1,158,635; Nov. 2; Gaz. vol. 220; p. 80.
- Chapman, Alonzo E., Redlands, Cal. Knockdown fly-trap. No. 1,136,210; Apr. 20; Gaz. vol. 213; p. 835.
- Chapman, Arthur B., Cella, Ohio. Adjustable wrench. No. 1,162,136; Nov. 30; Gaz. vol. 220; p. 1490.
- Chapman, Charles F., Newark, N. J. Package-sealing machine. No. 1,140,574; May 25; Gaz. vol. 214; p. 1112.
- Chapman, Charles H., Winchester, Mass. Ball-bearing. No. 1,123,485; Jan. 5; Gaz. vol. 210; p. 98.
- Chapman, Charles H., Winchester, Mass. Ball-bearing. No. 1,163,212; Dec. 7; Gaz. vol. 221; p. 167.
- Chapman, Charles M. (See Weis, John P., assignor.)
- Chapman, Charles S., Duluth, Minn. Combination golf-bag. No. 1,149,028; Aug. 3; Gaz. vol. 217; p. 192.
- Chapman Double Ball Bearing Company of Canada Limited. (See McCallum and Chambers, assignors.)
- Chapman, Edith E., executrix. (See Giroud, Felipe.)
- Chapman Engineering Company. (See Chapman, William B., assignor.)
- Chapman, Eugene M., and C. E. Cowan, Holyoke, Mass. Elevating-truck. No. 1,135,765; Apr. 13; Gaz. vol. 213; p. 638.
- Chapman, Fillmore H., Kansas City, Mo. Coin-handling device. No. 1,146,921; July 20; Gaz. vol. 216; p. 721.
- Chapman, Frank M., assignor of three-eighths to F. A. Bratt and three-eighths to R. McWhorter, Fort Edward, N. Y. Reversible-speed pulley. No. 1,156,132; Oct. 12; Gaz. vol. 219; p. 307.
- Chapman, Frank S., Greensburg, Ind., assignor to The National Electric Specialty Company, Toledo, Ohio. Lightning-arrester. (Reissue.) No. 1,3950; July 27; Gaz. vol. 216; p. 1300.
- Chapman, General S., St. Petersburg, Fla. Mold for concreting piles. No. 1,138,454; May 4; Gaz. vol. 214; p. 258.
- Chapman, George F., Natick, Mass. Self-feeding disinfecting and deodorizing device. No. 1,156,974; Oct. 19; Gaz. vol. 219; p. 630.
- Chapman, Guy F., Brook, Ind. Elevator. No. 1,136,773; Apr. 20; Gaz. vol. 213; p. 1036.
- Chapman, Howard A. (See Berliner and Chapman.)
- Chapman, John A., Bigelow, Ark. Attachment for car-steps. No. 1,129,956; Mar. 2; Gaz. vol. 212; p. 42.
- Chapman, Mark C. (See Chapman, Matthew T. and M. C.)
- Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Pumping machinery. No. 1,124,295; Jan. 12; Gaz. vol. 210; p. 424.
- Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Pumping machinery. No. 1,157,676; Oct. 26; Gaz. vol. 219; p. 940.
- Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Well-sinking apparatus. No. 1,163,213; Dec. 7; Gaz. vol. 221; p. 168.
- Chapman, Matthew T. and M. C., assignors to The American Well Works, Aurora, Ill. Deep-well pump. No. 1,149,633; Aug. 10; Gaz. vol. 217; p. 514.
- Chapman, Matthew T. and M. C., assignors to The American Well Works, Aurora, Ill. Pumping machinery. No. 1,152,603; Sept. 7; Gaz. vol. 218; p. 82.
- Chapman, Matthew T. and M. C., assignors to The American Well Works, Aurora, Ill. Pump. No. 1,163,809; Dec. 14; Gaz. vol. 221; p. 423.
- Chapman, Ralph W., Oldtown, Me. Electrical therapeutic apparatus. No. 1,153,839; Sept. 14; Gaz. vol. 218; p. 560.
- Chapman, Robert E., assignor of one-half to S. Waugh, Canon City, Colo. Shipping-receptacle. No. 1,155,212; Sept. 28; Gaz. vol. 218; p. 1094.
- Chapman, Solomon D., Canton, Ohio. Valve. No. 1,139,162; May 11; Gaz. vol. 214; p. 546.
- Chapman, Theron W., Belvidere, Ill. Guard for bottle-corks. No. 1,158,028; Oct. 26; Gaz. vol. 219; p. 1063.
- Chapman Truck Company, The. (See Lindsay, Clarence A., assignor.)
- Chapman, Walter S., et al. (See Nichols, Robert M., assignor.)
- Chapman, Walter W. (See Chapman, William H. and W. W.)
- Chapman, William B., Brooklyn, assignor to Chapman Engineering Co., New York, N. Y. Generating gas. No. 1,125,962; Jan. 26; Gaz. vol. 210; p. 1086.
- Chapman, William B., assignor to Chapman Engineering Company, New York, N. Y. Gas-producer. No. 1,142,144; June 8; Gaz. vol. 215; p. 409.
- Chapman, William B., assignor to Chapman Engineering Company, Mount Vernon, Ohio. Gas-producer. No. 1,162,452; Nov. 30; Gaz. vol. 220; p. 1598.
- Chapman, William B., assignor to Chapman Engineering Co., New York, N. Y. Gas-producer. No. 1,165,569; Dec. 28; Gaz. vol. 221; p. 1114.
- Chapman, William C., Grovetown, assignor of one-half to J. F. Brickle, Augusta, Ga. Internal coaster-brake lock. No. 1,141,774; June 1; Gaz. vol. 215; p. 241.

- Chapman, William H. and W. W., Newark, N. J.; said W. W. Chapman assignor to said William H. Chapman. Press. No. 1,139,845; May 18; Gaz. vol. 214; p. 821.
- Chappell, Marvin L. (See Mann and Chappell.)
- Chappell, Richard H., Rolla, Mo. Device for pointing brick walls. No. 1,142,022; June 8; Gaz. vol. 215; p. 366.
- Chappell, Winfield S., Jr., Mystic, Conn. Music-leaf turner. No. 1,164,780; Dec. 21; Gaz. vol. 221; p. 801.
- Chappelle, Charles, assignor of one-half to D. J. Hayden, Oklahoma, Okla. Pneumatic railway-switch. No. 1,130,477; Mar. 2; Gaz. vol. 212; p. 224.
- Chappelle, Edward C., Corning, N. Y. Pipe or flue connection for hot-air furnaces. No. 1,158,786; Nov. 2; Gaz. vol. 220; p. 132.
- Chapsal, François J., Paris, and A. L. E. Saillot, La Garene-Colombes, France. Piston with two cupped leathers. No. 1,153,604; Sept. 14; Gaz. vol. 218; p. 479.
- Charbonnier, Paul L., Boston, Mass. Scribing instrument. No. 1,126,390; Jan. 26; Gaz. vol. 210; p. 1241.
- Chard, Nicholas D. (See Schellenbach, Lodge, and Chard.)
- Charf, Reinhold, et al. (See Gronlund, Gunnar, assignor.)
- Chargueraud, Napoleon, Paris, France. Machine for making chain-mail fabric. No. 1,163,067; Dec. 7; Gaz. vol. 221; p. 116.
- Charland, Frederick J., assignor to The American Hardware Corporation, New Britain, Conn. Elevator-door-releasing device. No. 1,158,174; Oct. 26; Gaz. vol. 219; p. 1114.
- Charland, Joseph, and R. A. O'Connor, Copper Cliff, Ontario, Canada. Signal-bell. No. 1,157,508; Oct. 19; Gaz. vol. 219; p. 819.
- Charles, Alfred W., and C. E. McDonald, Butte, Mont.; said Charles assignor to said McDonald. Automatic brake-setting device for mine hoisting-engines. No. 1,127,183; Feb. 2; Gaz. vol. 211; p. 183.
- Charles Burroughs Company, The. (See Burroughs and Northrup, assignors.)
- Charles Burroughs Company, The. (See Northrup, Francis B., assignor.)
- Charles Cory & Son. (See Word and Laning, assignors.)
- Charles E. Benefiel Company. (See Hiatt, William F., assignor.)
- Charles E. Hires Company, The. (See Calvert, Frank W., assignor.)
- Charles F. Elmes Engineering Works. (See Slater, Harvey, assignor.)
- Charles F. Eyton Co. (See Ramsey and Hulburd, assignors.)
- Charles, George M., Chicago, Ill. Faucet. No. 1,148,217; July 27; Gaz. vol. 216; p. 1203.
- Charles, Oscar J., Fort McPherson, Ga. Field stove, oven, range, and the like. No. 1,141,934; June 8; Gaz. vol. 215; p. 334.
- Charles Parker Company, The. (See Walker, Percy H. D., assignor.)
- Charles, Samuel W., Palo Alto, Cal. Safety-razor. No. 1,151,083; Aug. 24; Gaz. vol. 217; p. 1140.
- Charles W. Shonk Company. (See Dun Lany, William P., assignor.)
- Charles W. Shonk Company. (See Eaton, Allan L., assignor.)
- Charles W. Shonk Company. (See Holloway, William M., assignor.)
- Charles Ward Engineering Works, The. (See Ward, Charles and C. E., assignors.)
- Charleston Window Glass Company, The. (See Henshaw, Seth B., assignor.)
- Charley, John J., Malvern, Victoria, Australia. Spring suspension for vehicles. No. 1,137,741; May 4; Gaz. vol. 214; p. 7.
- Charlton, Arthur J., Westford, Mass. Squeeze-roll. No. 1,149,551; Aug. 10; Gaz. vol. 217; p. 482.
- Charlton, Richard C., assignor to Henry Disston & Sons Incorporated, Philadelphia, Pa. Ice-saw. No. 1,160,843; Nov. 16; Gaz. vol. 220; p. 943.
- Chapier, Edward, Chicago, Ill. Electric switch, fuse, and protector therefor. No. 1,156,887; Oct. 19; Gaz. vol. 219; p. 599.
- Charm, Hyman, Dorchester, Mass. Vehicle tire-protector. No. 1,123,486; Jan. 5; Gaz. vol. 210; p. 99.
- Chartener, Victor, Pittsburgh, Pa. Rolling-mill for metal sheets and strips. No. 1,127,591; Feb. 9; Gaz. vol. 211; p. 364.
- Charter, James A., Chicago, Ill. Engine. No. 1,127,184; Feb. 2; Gaz. vol. 211; p. 183.
- Charter, James A., Chicago, Ill. Combined furnace and gas-generator therefor. No. 1,128,534; Feb. 16; Gaz. vol. 211; p. 761.
- Charters, David B., Peru, Ind. Valve-operating mechanism. No. 1,129,452; Feb. 23; Gaz. vol. 211; p. 1101.
- Chartrand, Carlos, assignor to Sociedad Anónima Encajetilladora Mecánica, Habana, Cuba. Wrapping-machine. No. 1,163,320; Dec. 7; Gaz. vol. 221; p. 204.
- Chary, Joseph, Oberhomburg, Lothringen, Germany. Buckle. No. 1,138,539; May 4; Gaz. vol. 214; p. 286.
- Chary, Joseph, Oberhomburg, Lothringen, Germany. Buckle. No. 1,138,540; May 4; Gaz. vol. 214; p. 286.
- Chas. G. Summers & Co. (See Summers, Charles G., Jr., assignor.)
- Chas. Pfriemer. (See Pfriemer, Charles J., assignor.)
- Chase, Albert E., and C. A. Briney, assignors of one-third to J. E. De Witt, New Sharon, Iowa. Camera. No. 1,137,185; Apr. 27; Gaz. vol. 213; p. 1220.
- Chase, Aurin M., Syracuse, N. Y. Governing means for internal-combustion engines. No. 1,129,788; Feb. 23; Gaz. vol. 211; p. 1215.
- Chase, Aurin M., Syracuse, N. Y. Air-cooling system for internal-combustion engines. No. 1,163,129; Dec. 7; Gaz. vol. 221; p. 137.
- Chase, Earl G., assignor of forty-five one-hundredths to G. W. Howard, Smethport, Pa. Glass-blowing machine. No. 1,162,337; Nov. 30; Gaz. vol. 220; p. 1559.
- Chase, Elroy A., Northfield, Vt., assignor to American Granite Saw Company, Kittery, Me. Stone-sawing machine. No. 1,141,231; June 1; Gaz. vol. 215; p. 50.
- Chase, Frank E., Danvers, Mass. Meter-support. No. 1,134,257; Apr. 6; Gaz. vol. 213; p. 64.
- Chase, Frank S., and J. H. Graham, assignors to The Standard Company, Torrington, Conn. Plating-barrel. No. 1,135,660; Apr. 13; Gaz. vol. 213; p. 603.
- Chase, Hamilton C., Dayton, Ohio. Internal-combustion engine. No. 1,129,957; Mar. 2; Gaz. vol. 212; p. 42.
- Chase, Harold M., and J. L. Graftin, assignors to National Wood Distilling Company, Wilmington, N. C. Redistillation of products of destructive distillation. No. 1,161,844; Nov. 30; Gaz. vol. 220; p. 1386.
- Chase, Harold M., and J. L. Graftin, assignors to National Wood Distilling Company, Wilmington, N. C. Redistillation of products resulting from destructive distillation of resinous wood. No. 1,162,036; Nov. 30; Gaz. vol. 220; p. 1453.
- Chase, Herbert C., assignor to Potter and Johnston Machine Company, Pawtucket, R. I. Combined fiber feeder and mixer. No. 1,129,167; Feb. 23; Gaz. vol. 211; p. 1000.
- Chase, Irwin, assignor to The Elco Company, Bayonne, N. J. Combined bollard and forward-deck light. No. 1,124,391; Jan. 12; Gaz. vol. 210; p. 458.
- Chase, Irwin, assignor to The Elco Company, Bayonne, N. J. Side light for boats. No. 1,133,536; Mar. 30; Gaz. vol. 212; p. 1465.
- Chase, John M. (See Brandenburg, Albert F., assignor.)
- Chase, Theron P., and A. Ward, Jr., assignors to King Motor Car Company, Detroit, Mich. Spring suspension. No. 1,149,166; Aug. 3; Gaz. vol. 217; p. 239.
- Chase, William D. (See Ward and Chase.)
- Chasey, Frederick S., Winnipeg, Manitoba, Canada. Collar-fastener. No. 1,128,658; Feb. 16; Gaz. vol. 211; p. 787.
- Chatneld, Franklin, assignor to Northwestern Knitting Company, Minneapolis, Minn. Attachment for shell-stitching machines. No. 1,144,810; June 29; Gaz. vol. 215; p. 1429.
- Chatfield, Franklin, assignor to Northwestern Knitting Company, Minneapolis, Minn. Fabric-guide for stitching-machines. No. 1,144,811; June 29; Gaz. vol. 215; p. 1429.
- Chatfield Manufacturing Company, The. (See Stansbury, Paul W., assignor.)
- Chatillon, Ralph F., Greenburg, N. Y. Meat-tenderer. No. 1,161,845; Nov. 30; Gaz. vol. 220; p. 1387.
- Chattanooga Implement Manufacturing Co. (See Schlar, Edward H., assignor.)
- Chautard, Eugène, Corbigny, France. Tongue-truck. No. 1,129,332; Feb. 23; Gaz. vol. 211; p. 1058.
- Chayes, Herman E. S., New York, N. Y. Dental instrument. No. 1,136,100; Apr. 20; Gaz. vol. 213; p. 795.
- Cheatham, Robert V., St. Matthews, Ky. Circuit-closer for trolley-signal systems. No. 1,136,314; Apr. 20; Gaz. vol. 213; p. 872.
- Cheeseman, Mary J., New York, N. Y. Washboiler. No. 1,133,097; Mar. 23; Gaz. vol. 212; p. 1272.
- Cheesman, James E., South Orange, N. J., assignor to Empire Duplex Gln Company, New York, N. Y. Treating lint. No. 1,128,758; Feb. 16; Gaz. vol. 211; p. 820.
- Cheetham, George. (See Goodwin and Cheetham.)
- Cheetham, Walter, Oakland, assignor, by mesne assignments, to G. D. Brown, Pasadena, Cal. Cramation-furnace. No. 1,147,310; July 20; Gaz. vol. 216; p. 855.
- Cheln, Julius, Upper Montclair, N. J. Toy safe. No. 1,138,626; May 11; Gaz. vol. 214; p. 354.
- Cheln, Julius, Montclair, N. J. Wagon. No. 1,160,574; Nov. 16; Gaz. vol. 220; p. 846.
- Cheln, Julius, Montclair, N. J. Wagon. No. 1,160,575; Nov. 16; Gaz. vol. 220; p. 846.
- Chellis, Eugene D., assignor, by mesne assignments, to National Metal Seal Corporation, Portland, Me. Neck and closure for containing vessels. No. 1,128,948; Feb. 16; Gaz. vol. 211; p. 889.
- Chellis, George F. (See Lardner and Chellis.)
- Chelmo, John E., and L. S. Webster, Wis. Joint-marker. No. 1,127,353; Feb. 2; Gaz. vol. 211; p. 240.
- Chelmo, Leonard S. (See Chelmo, John E. and L. S.)
- Chemical Products Company. (See McKenna, Philip M., assignor.)
- Chemisch Metallurgische Industrie-Gesellschaft mit beschränkter Haftung. (See Askenasy, Paul, assignor.)
- Chemische Fabrik auf Actien (vorm. E. Schering.) (See Thiele, Albrecht, assignor.)
- Chemische Fabrik Griesheim-Elektron. (See Kunert and Acker, assignors.)

Alphabetical list of patentees—Continued.

- Chemische-Fabrik Griesheim-Elektron. (See Laska and Rath, assignors.)
- Chemische Fabrik Griesheim-Elektron. (See Laska and Zitscher, assignors.)
- Chemische Fabrik Griesheim-Elektron. (See Singer, Fritz, assignor.)
- Chemische Fabrik Griesheim-Elektron. (See Specketer and Münch, assignors.)
- Chemische Fabrik von Heyden, Aktiengesellschaft. (See Bleckwenn, Ludwig G., assignor.)
- Chemische Fabrik von Heyden Aktiengesellschaft. (See Seifert and Leibrock, assignors.)
- Chemische Fabrik vormals Sandoz. (See Lagutt, Jan, assignor.)
- Chemische Fabriken vorm. Weiler-ter-Meer. (See Marwedel, Johann E., assignor.)
- Chemische Werke vorm. Dr. Heinrich Byk. (See Grütter and Pohl, assignors.)
- Chenard, William W., Ashland, N. H. Combination-lock. No. 1,129,641; Feb. 23; Gaz. vol. 211; p. 1167.
- Chenault, John C., Richmond, Ky. Bridle-bit. No. 1,124,108; Jan. 5; Gaz. vol. 210; p. 309.
- Chenette, Frank A., Worcester, Mass. Bottle-cover. No. 1,154,973; Sept. 28; Gaz. vol. 218; p. 1011.
- Cheney Brothers. (See Cheney, Howell, assignor.)
- Cheney, Herbert W., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Potential starter for alternating-current motors. No. 1,125,004; Jan. 12; Gaz. vol. 210; p. 678.
- Cheney, Herbert W., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Controlling system. No. 1,127,185; Feb. 2; Gaz. vol. 211; p. 184.
- Cheney, Herbert W., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Controller for electric motors. No. 1,125,815; Jan. 19; Gaz. vol. 210; p. 1003.
- Cheney, Herbert W., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Dash-pot. No. 1,130,375; Mar. 2; Gaz. vol. 212; p. 186.
- Cheney, Herbert W., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Unloading device for compressors. No. 1,133,792; Mar. 30; Gaz. vol. 212; p. 1556.
- Cheney, Herbert W., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Relay. No. 1,149,496; Aug. 10; Gaz. vol. 217; p. 461.
- Cheney, Herbert W., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Potential-regulator. No. 1,153,422; Sept. 14; Gaz. vol. 218; p. 414.
- Cheney, Howell, assignor to Cheney Brothers, South Manchester, Conn. Scarf. No. 1,160,972; Nov. 16; Gaz. vol. 220; p. 988.
- Cheney, Samuel, Wickopin, Western Australia, Australia. Automatic air-escape valve for railway-brakes. No. 1,137,575; Apr. 27; Gaz. vol. 213; p. 1359.
- Cheney, Samuel, Wickopin, Western Australia, Australia. Automatic-adjusting air-escape valve for railway-brakes. No. 1,137,576; Apr. 27; Gaz. vol. 213; p. 1359.
- Chenoweth, Edwin G. (See Mathews and Chenoweth.)
- Chenoweth, John H., Chicago, Ill. Hat-chuck. No. 1,125,963; Jan. 26; Gaz. vol. 210; p. 1086.
- Chenoweth, John H., Chicago, Ill. Sewing-machine support. No. 1,152,487; Sept. 7; Gaz. vol. 218; p. 38.
- Chernack, Abel E., assignor to Chernack Manufacturing Company, Pawtucket, R. I. Loom for weaving tubular fabrics. No. 1,129,642; Feb. 23; Gaz. vol. 211; p. 1167.
- Chernack Manufacturing Company. (See Chernack, Abel E., assignor.)
- Cherney, Joseph B., Milwaukee, Wis. Lid-control mechanism. No. 1,136,865; Apr. 20; Gaz. vol. 213; p. 1068.
- Chernyshoff, Alexander, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Arcing-ground suppressor. No. 1,160,844; Nov. 16; Gaz. vol. 220; p. 943.
- Cheron, Henri, *et al.* (See Biquard, Robert, assignor.)
- Cherrier, Harry A., Redlands, Cal. Solar cooker. No. 1,158,175; Oct. 26; Gaz. vol. 219; p. 1115.
- Cherry, Charles C., Hidalgo, Ill. Post. No. 1,156,207; Oct. 12; Gaz. vol. 219; p. 331.
- Cherry, Lester A., Kenmore, N. Y. Combined damper-regulator, relief-valve, gage, and alarm. No. 1,148,755; Aug. 3; Gaz. vol. 217; p. 98.
- Cherry, Moses, Jr., Larchmont Manor, N. Y. Trunk. No. 1,137,257; Apr. 27; Gaz. vol. 213; p. 1247.
- Cherry, Peterson H., Los Angeles, Cal. Smudging apparatus. No. 1,162,682; Nov. 30; Gaz. vol. 220; p. 1672.
- Cherry, William J., New York, N. Y. Player-piano. No. 1,166,185; Dec. 28; Gaz. vol. 221; p. 1332.
- Chesbrough, George W., Rochester, N. Y. Soft-soled shoe. No. 1,123,245; Jan. 5; Gaz. vol. 210; p. 15.
- Chesebro Whitman Co. (See Faulkner, Albert N., assignor.)
- Cheshire, Allen M. (See Epperson, Charles W., assignor.)
- Cheshire, Carey A., Des Moines, Iowa. Signature-gatherer. No. 1,147,481; July 20; Gaz. vol. 216; p. 918.
- Cheshire, Carey A., Chicago, Ill. Base-plate for feeding mechanisms. No. 1,147,482; July 20; Gaz. vol. 216; p. 918.
- Cheshire, Carey A., Chicago, Ill. Book gathering and stacking machine. No. 1,160,845; Nov. 16; Gaz. vol. 220; p. 944.
- Cheshire, Carey A., Chicago, Ill. Feeding mechanism. No. 1,160,846; Nov. 16; Gaz. vol. 220; p. 944.
- Cheshire, Edward, assignor to Miller Saw Trimmer Company of Michigan, Pittsburgh, Pa. Sheet-registering device. No. 1,135,766; Apr. 13; Gaz. vol. 213; p. 639.
- Cheshire, Edward, assignor to Miller Saw Trimmer Company of Michigan, Pittsburgh, Pa. Driving-motor support. No. 1,135,767; Apr. 13; Gaz. vol. 213; p. 639.
- Cheshire, Edward, assignor to Miller Saw Trimmer Company of Michigan, Pittsburgh, Pa. Table-elevating mechanism. No. 1,145,404; July 6; Gaz. vol. 216; p. 149.
- Cheshire, Edward, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company of Michigan, Alma, Mich. Paper feeding and handling device. No. 1,145,405; July 6; Gaz. vol. 216; p. 150.
- Cheshire, Edward, Milwaukee, Wis., assignor to Miller Saw Trimmer Company of Michigan, Alma, Mich. Sheet separating and moving device. No. 1,145,403; July 6; Gaz. vol. 216; p. 149.
- Chesler, Jerry, East Orange, assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Alternating-current rectifier and rectifying system. No. 1,145,116; July 6; Gaz. vol. 216; p. 50.
- Chesney, Madison R., Kansas City, Mo. Jumping toy. No. 1,147,606; July 20; Gaz. vol. 216; p. 961.
- Chesnutt, John L., Kansas City, Mo. Swivel-caster. No. 1,142,930; June 15; Gaz. vol. 215; p. 723.
- Chessin, Alexander S., New York, N. Y. Stabilizing apparatus. No. 1,134,439; Apr. 6; Gaz. vol. 213; p. 129.
- Chessin, Alexander S., New York, N. Y. Gyroscopic compass. No. 1,137,258; Apr. 27; Gaz. vol. 213; p. 1248.
- Chester, Ashmead B., Jacksonville, Ill. Grain-shocking machine. No. 1,165,319; Dec. 21; Gaz. vol. 221; p. 988.
- Chester, Wilfred D., Sewickley, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,124,392; Jan. 12; Gaz. vol. 210; p. 458.
- Chesterman and Streeter. (See Benham, Harry, assignor.)
- Cheston, Arthur S., Birmingham, England. Buffer device for doors. No. 1,128,105; Feb. 9; Gaz. vol. 211; p. 546.
- Cheston, Arthur S., Birmingham, England. Hood for vehicles. No. 1,158,443; Nov. 2; Gaz. vol. 220; p. 11.
- Chevalier, Frank, Columbus, Ohio. Game apparatus. No. 1,126,704; Feb. 2; Gaz. vol. 211; p. 13.
- Chevalier, Joseph P., *et al.* (See Frost, Walter E., assignor.)
- Chevalier, Romulus C. (See Brouillette, Alfred L., assignor.)
- Chevance, Lucien, Auxerre, France. Distributing device for four-stroke-cycle internal-combustion engines. No. 1,124,861; Jan. 12; Gaz. vol. 210; p. 628.
- Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom. No. 1,126,391; Jan. 26; Gaz. vol. 210; p. 1242.
- Chevrolet Motor Company of New York. (See Mason and Sturt, assignors.)
- Chevrolet Motor Company of New York. (See Sturt, Alfred T., assignor.)
- Chew, Harry L., and W. S. Sergeant, Washington, D. C., assignors to Hub Shock Absorber Wheel Company, Lancaster, Pa. Resilient wheel. No. 1,149,425; Aug. 10; Gaz. vol. 217; p. 438.
- Cheyne, Gertrude, Boston, Mass. Veil-fastener. No. 1,161,799; Nov. 23; Gaz. vol. 220; p. 1324.
- Chic Mfg. Co. (See Salzenstein, Solomon C., assignor.)
- Chicago Car Heating Company. (See Rietz, Elmer W., assignor.)
- Chicago Carton Company. (See Richardson, Ralph R., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Klohs, Sam F., assignor.)
- Chicago Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
- Chicago Coach & Carriage Co. (See Carlson, Charles, assignor.)
- Chicago Electric Meter Company. (See Conrad, Frank, assignor.)
- Chicago Electric Meter Company. (See Hall, Chester I., assignor.)
- Chicago Electric Meter Company. (See Karapetoff, Vladimir, assignor.)
- Chicago Electric Meter Company. (See Myrick, George H., assignor.)
- Chicago Electric Meter Company. (See Storer, Simon B., assignor.)
- Chicago Fire Brick Co. (See McFerren, Thomas H., assignor.)
- Chicago Flexible Shaft Company. (See Bodene, John, assignor.)
- Chicago Flexible Shaft Company. (See La Chance, Leander H., assignor.)
- Chicago Hardware Foundry Company. (See Hathorne, Sherman A., assignor.)
- Chicago Lino-Tabler Company. (See Stevenson, Ashton G., assignor.)
- Chicago Lubricator Company, The. (See Edwards, Frank W., assignor.)

Alphabetical list of patentees—Continued.

- Chicago Mop & Polish Company. (See Punch, David T., assignor.)
- Chicago Paper Company. (See Price, Joseph H., assignor.)
- Chicago Pneumatic Tool Company. (See Schmidt, William F., assignor.)
- Chicago Pneumatic Tool Company. (See Sherwood, Mather W., assignor.)
- Chicago Pneumatic Tool Company. (See Summers, Lewis E., assignor.)
- Chicago Pneumatic Tool Company. (See Wanamaker and McAllister, assignors.)
- Chicago Pneumatic Tool Company. (See Whitelaw, James, assignor.)
- Chicago Railway Equipment Company. (See Busse and Le Beau, assignors.)
- Chicago Railway Equipment Company. (See Le Beau, Ernest A., assignor.)
- Chicago Railway Equipment Company. (See Le Beau and Busse, assignors.)
- Chicago Railway Equipment Company. (See Rohlfing, John M., assignor.)
- Chicago Railway Equipment Company. (See Williams, Charles H., Jr., assignor.)
- Chicago Railway Equipment Company. (See Williams, Charles H., Jr., assignor.) (Reissue.)
- Chicago Shipping & Receipt Book Company. (See Burns, Edward V., assignor.)
- Chicago Shipping & Receipt Book Company. (See Olsen, George A., assignor.)
- Chicago Shipping & Receipt Book Company. (See Smith, Gilbert, assignor.)
- Chicago Signal Company. (See Levison, Maurice, assignor.)
- Chicago Solder Company. (See Simpson, Edmund A., assignor.)
- Chicago Spring Butt Company. (See Keene and Schuster, assignors.)
- Chicago Standard Equipment Company. (See Dunderdale, Herbert, assignor.) (Reissue.)
- Chicago Standard Equipment Company. (See Lester, Frederick A., assignor.)
- Chickering, Frank W., assignor of one-half to J. J. Gallagher. Hardwick, Vt. Extension car-step. No. 1,148,856; July 27; Gaz. vol. 216; p. 1254.
- Chidley, Joseph, and W. H. Winterrowd, Cleveland, Ohio. Locomotive. No. 1,130,669; Mar. 2; Gaz. vol. 212; p. 290.
- Child, Guy B., and C. Munzner, Chicago, Ill., assignors to American Stove Company, St. Louis, Mo. Sad-iron. No. 1,143,507; June 15; Gaz. vol. 215; p. 924.
- Child, Hal G., assignor of one-half to E. C. Walton, Spokane, Wash. Book-marker. No. 1,124,591; Jan. 12; Gaz. vol. 210; p. 531.
- Childers, Charles T., Galesburg, Ill. Bung. No. 1,127,961; Feb. 9; Gaz. vol. 211; p. 496.
- Childers, George W., and H. D. Borst, San Diego, Cal. Tire-armor. No. 1,136,774; Apr. 20; Gaz. vol. 213; p. 1036.
- Childers, Walter E., Mertzon, Tex. Multiple-record phonograph. No. 1,141,232; June 1; Gaz. vol. 215; p. 50.
- Childress, Benjamin F., Lynchburg, Va. Coffee-percolator. No. 1,146,922; July 20; Gaz. vol. 216; p. 721.
- Childress, Delana R., Spencer, Ind. Concrete-mixer. No. 1,129,453; Feb. 23; Gaz. vol. 211; p. 1101.
- Childs, Earl T., Akron, Ohio. Clasp. No. 1,151,084; Aug. 24; Gaz. vol. 217; p. 1141.
- Childs, John N., Hazleton, Pa., assignor to International Steam Pump Company, Pump. No. 1,164,168; Dec. 14; Gaz. vol. 221; p. 546.
- Childs, Nettie N., *et al.* (See Southard, George B., assignor.)
- Chilson, Bert S., Fayetteville, N. Y. Motor-cycle seat. No. 1,144,588; June 29; Gaz. vol. 215; p. 1351.
- Chilson, E. D. (See Bailey, Daniel, assignor.)
- Chilson, Frank B., *et al.* (See Funder, Mathew, assignor.)
- Chilton, Henry J., Chicago, Ill. Bottle-handling machine. No. 1,132,162; Mar. 16; Gaz. vol. 212; p. 881.
- Chimera, Joseph S., Buffalo, N. Y. Radiator-core. No. 1,164,923; Dec. 21; Gaz. vol. 221; p. 851.
- Chinakas, Andrew H., Spokane, Wash. Track-leveling device. No. 1,143,039; June 15; Gaz. vol. 215; p. 761.
- Chiniquy, William F., and W. O. Winch, Chicago, Ill. Apparatus for drying hats. No. 1,134,669; Apr. 6; Gaz. vol. 213; p. 214.
- Chinnock, George H., New York, N. Y. Vehicle-tire. No. 1,131,772; Mar. 16; Gaz. vol. 212; p. 740.
- Chinnock, James E., assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Car transferring and dumping mechanism. No. 1,126,392; Jan. 26; Gaz. vol. 210; p. 1242.
- Chiple, Gardiner W., Los Angeles, Cal. Brake-shoe. No. 1,136,936; Apr. 27; Gaz. vol. 213; p. 1129.
- Chiple, Gardiner W., Los Angeles, Cal. Interlocking brake-shoe. No. 1,144,639; June 29; Gaz. vol. 215; p. 1368.
- Chipman, William E., Easton, Pa. Knitting-machine. No. 1,163,970; Dec. 14; Gaz. vol. 221; p. 477.
- Chippis, Frederick J., High Wycombe, England. Seat. No. 1,146,236; July 13; Gaz. vol. 216; p. 462.
- Chisholm, Charles L., Marysville, New Brunswick, Canada, assignor to Chisholm Transmitter & Telephone Instruments Company. Telephone system and individual transmitter therefor. No. 1,158,636; Nov. 2; Gaz. vol. 220; p. 80.
- Chisholm, Clifton, San Francisco, Cal. Lithographic plate and producing the same. No. 1,149,974; Aug. 10; Gaz. vol. 217; p. 637.
- Chisholm, Herman T., assignor of one-half to W. F. Kilchenstein, Baltimore, Md. Game-table. No. 1,142,305; June 8; Gaz. vol. 215; p. 464.
- Chisholm Transmitter & Telephone Instruments Company. (See Chisholm, Charles L., assignor.)
- Chisko, John, Waymart, Pa. Armored hood for automobiles. No. 1,147,607; July 20; Gaz. vol. 216; p. 961.
- Chism, Howard F., Olive Branch, Ill. Self-reserving tablet. No. 1,155,886; Oct. 5; Gaz. vol. 219; p. 195.
- Chisolm, William B., Charleston, S. C. Manufacture of fertilizers. No. 1,147,926; July 27; Gaz. vol. 216; p. 1099.
- Chivers & Sons. (See Lack, Charles T., assignor.)
- Chiville, Gerald D., Chicago, Ill. Motor-vehicle construction. No. 1,165,848; Dec. 28; Gaz. vol. 221; p. 1212.
- Chloride Process Company. (See Jewell, William M., assignor.)
- Chloupek, Charles J., Green Bay, Wis. Power-increasing attachment for automobiles and similar driven vehicles. No. 1,145,830; July 6; Gaz. vol. 216; p. 299.
- Chmara, Anastasius A. (See Chmara, Leo A. and A. A.)
- Chmara, Leo A. and A. A., Bay City, Mich. Broom-brace. No. 1,164,924; Dec. 21; Gaz. vol. 221; p. 851.
- Chmielewski, Joseph, Cleveland, Ohio. Aeroplane. No. 1,125,652; Jan. 19; Gaz. vol. 210; p. 943.
- Chmielewski, Lucjan. (See Jarnuszkiewicz, Chmielewski, Szczesny, and Chybzyński.)
- Choate, King E., and J. T. Carroll; said Carroll assignor of one-half of his right to J. W. Wilkerson, Houston, Tex. Type-delivery machine. No. 1,164,595; Dec. 14; Gaz. vol. 221; p. 694.
- Choate, Roy E., Cedar Rapids, Iowa. House-moving truck. No. 1,160,690; Nov. 16; Gaz. vol. 220; p. 891.
- Choate, William B., Aurora, Ill. Amusement device. No. 1,143,808; June 22; Gaz. vol. 215; p. 1052.
- Choate, William E., Hamilton, Mass. Machine for marking articles. No. 1,128,225; Feb. 9; Gaz. vol. 211; p. 587.
- Cholin, Tony, Chinook, Mont. Gearing-lubricator. No. 1,156,664; Oct. 12; Gaz. vol. 219; p. 493.
- Chomier, Louis, and B. Fressinet, St. Etienne, France. Apparatus for weaving ribbons and fabrics. No. 1,132,440; Mar. 16; Gaz. vol. 212; p. 983.
- Chopieska, John A., Plattsmouth, Nebr. Packing-ring for internal-combustion engines. No. 1,127,962; Feb. 9; Gaz. vol. 211; p. 497.
- Choralcelo Company. (See Severy, Melvin L., assignor.)
- Choralcelo Company. (See Severy and Sinclair, assignors.)
- Choralcelo Company. (See Thomas, Edward G., assignor.)
- Choralcelo Manufacturing Company. (See Scuterud, Mikarl A., assignor.)
- Choralcelo Manufacturing Company. (See Severy and Sinclair, assignors.)
- Chorvath, Joseph. (See Chorvath, Paul and J.)
- Chorvath, Jozef. (See Chorvath, Paul and J.)
- Chorvath, Paul and J., Tarentum, Pa. Handle attachment for loors. No. 1,143,360; June 15; Gaz. vol. 215; p. 874.
- Chorvath, Paul and J., Tarentum, Pa. Clothes-tongs. No. 1,158,637; Nov. 2; Gaz. vol. 220; p. 81.
- Chott, Edward L., assignor of one-half to H. J. Chott, Chicago, Ill. Stand for swaging-anvils. No. 1,134,728; Apr. 6; Gaz. vol. 213; p. 236.
- Chott, Edward L., assignor of one-half to H. J. Chott, Chicago, Ill. Suction apparatus for dental casting apparatus. No. 1,142,023; June 8; Gaz. vol. 215; p. 367.
- Chott, Edward L., assignor of one-half to H. J. Chott, Chicago, Ill. Dental tool. No. 1,142,024; June 8; Gaz. vol. 215; p. 367.
- Chott, Hugo J. (See Chott, Edward L., assignor.)
- Chouinard, Oscar. (See Holst and Chouinard.)
- Chouinard, Oscar. (See Motley and Chouinard.)
- Chovanecz, Paul, Johnstown, Pa. Foldable vehicle-fender. No. 1,142,490; June 8; Gaz. vol. 215; p. 531.
- Chovanecz, Paul, Johnstown, Pa. Expandable horseshoe. No. 1,147,927; July 27; Gaz. vol. 216; p. 1100.
- Chrisco, Israel M., Bartlett, assignor of one-fourth to W. A. Ramsey and one-fourth to D. Meeker, Birch Tree, Mo. Corn-planter. No. 1,126,393; Jan. 26; Gaz. vol. 210; p. 1242.
- Chrisman, Horace, Edgewood Park, Pa., assignor to Pittsburgh Meter Company. Means for measuring and indicating flows. No. 1,134,373; Apr. 6; Gaz. vol. 213; p. 106.
- Chrisman, Loran T., assignor of one-fourth to J. G. Wickers, one-fourth to E. Mayer, and one-fourth to J. Mayer, Buffalo, N. Y. Trolley-restorer. No. 1,133,263; Mar. 30; Gaz. vol. 212; p. 1366.
- Chrissinger, Robert A., Stockport, Iowa. Silo-block former. No. 1,147,679; July 20; Gaz. vol. 216; p. 987.

Alphabetical list of patentees—Continued.

- Christel, Carl H., Berlin, Germany, assignor to Mergenthaler Linotype Company, New York, N. Y. Spacer for use in typographical machines. No. 1,142,236; June 8; Gaz. vol. 215; p. 441.
- Christen, Albert, *et al.* (See Mott, James W., assignor.)
- Christen, Clarence, *et al.* (See Mott, James W., assignor.)
- Christensen, Arthur O., Franklin Furnace, N. J. Electric heating and cooking stove. No. 1,133,098; Mar. 23; Gaz. vol. 212; p. 1272.
- Christensen, Arthur O., Franklin, N. J. Electric cooking-stove. No. 1,158,176; Oct. 26; Gaz. vol. 219; p. 1115.
- Christensen, August S., Kenmare, N. D. Driving-gear for mechanically-propelled vehicles. No. 1,129,643; Feb. 23; Gaz. vol. 211; p. 1167.
- Christensen, Barney, Slater, assignor of one-half to W. H. Keigley, Madrid, Iowa. Self-starter. No. 1,123,846; Jan. 5; Gaz. vol. 210; p. 221.
- Christensen, Carl, Windsor, Wis. Transplanting device. No. 1,151,341; Aug. 24; Gaz. vol. 217; p. 1228.
- Christensen, Christen, Copenhagen, Denmark. Apparatus for cooling molten or emulsion-like substances on a cooling-surface. No. 1,130,670; Mar. 2; Gaz. vol. 212; p. 290.
- Christensen, Christian. (See Lane, George S., assignor.)
- Christensen, Frederik C., and T. W. Fuller, Racine, Wis. Dimmer for headlights. No. 1,123,487; Jan. 5; Gaz. vol. 210; p. 99.
- Christensen, Henry A., assignor to Mountain City Mill Co., Chattanooga, Tenn. Package. No. 1,135,878; Apr. 13; Gaz. vol. 213; p. 678.
- Christensen, Jess. (See Pells and Christensen.)
- Christensen, Johannes E., Everett, Wash. Rotary engine. No. 1,140,952; May 25; Gaz. vol. 214; p. 1244.
- Christensen, Martin, Racine, Wis. Conveyor for book-stitching machines. No. 1,140,734; May 25; Gaz. vol. 214; p. 1165.
- Christensen, Martin, Racine, Wis. Book-stitching machine. No. 1,165,749; Dec. 28; Gaz. vol. 221; p. 1179.
- Christensen, Mous C., Chicago, Ill. Universal shaft-coupling. No. 1,142,750; June 8; Gaz. vol. 215; p. 617.
- Christensen, Peter, Argenta, Ark. Bracing device for screen-doors. No. 1,128,848; Feb. 16; Gaz. vol. 211; p. 852.
- Christensen, Peter, Kingsville, Tex. Swinging cradle. No. 1,133,429; Mar. 30; Gaz. vol. 212; p. 1426.
- Christenson, Alfred C. (See Tyssse, Hans C., assignor.)
- Christenson, George, Jamaica, N. Y., assignor to H. W. Johns-Manville Company. Slack take-up for fluid-pressure-brake systems. No. 1,158,177; Oct. 26; Gaz. vol. 219; p. 1116.
- Christenson, Peter A., Benson, Minn. Tire-armor. No. 1,153,194; Sept. 14; Gaz. vol. 218; p. 331.
- Christian, Charles F., New York, N. Y. Floor-plate. No. 1,124,210; Jan. 5; Gaz. vol. 210; p. 345.
- Christian, Gilbert, Detroit, Mich. Carbureter. No. 1,166,112; Dec. 28; Gaz. vol. 221; p. 1305.
- Christian, Gilbert, assignor to The Wilcke-Armstrong Company, Detroit, Mich. Telephone pay-station. No. 1,141,866; June 1; Gaz. vol. 215; p. 271.
- Christian, Joseph. (See Jamison and Christian.)
- Christiansen, Charles, Gelsenkirchen, Germany. Diver-saving apparatus. No. 1,133,932; Mar. 30; Gaz. vol. 212; p. 1604.
- Christiansen, Charles, Gelsenkirchen, Germany. Pneumatic tool. No. 1,157,924; Oct. 26; Gaz. vol. 219; p. 1026.
- Christiansen, Frederik C., and T. W. Fuller, Racine, Wis. Headlight-dimmer. No. 1,143,611; June 22; Gaz. vol. 215; p. 985.
- Christiansen, Ole F., Bedford, assignor of one-half to P. C. Thoner and R. M. Martens, Boston, Mass. Combined ice and snow skate. No. 1,159,897; Nov. 9; Gaz. vol. 220; p. 556.
- Christianson, Andrew, Butler, Pa. Journal-box. No. 1,136,937; Apr. 27; Gaz. vol. 213; p. 1130.
- Christianson, Andrew, Butler, Pa. Shock-absorber. No. 1,153,483; Sept. 14; Gaz. vol. 218; p. 435.
- Christianson, Andrew, Butler, Pa. Shock-absorber. No. 1,156,665; Oct. 12; Gaz. vol. 219; p. 493.
- Christianson, Andrew, Butler, assignor to Standard Motor Truck Company, Pittsburgh, Pa. Journal-box bearing. No. 1,127,963; Feb. 9; Gaz. vol. 211; p. 497.
- Christianson, Andrew, Butler, assignor to Standard Motor Truck Company, Pittsburgh, Pa. Bolster-hanger. No. 1,142,237; June 8; Gaz. vol. 215; p. 441.
- Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. End for box-cars. No. 1,158,444; Nov. 2; Gaz. vol. 220; p. 11.
- Christie, Albert H. (See Smith and Christie.)
- Christie, Albert H., assignor to The King Machine Company, Bridgeport, Conn. Ironing-machine. No. 1,145,117; July 6; Gaz. vol. 216; p. 51.
- Christie, Albert H., assignor to The King Machine Company, Bridgeport, Conn. Ironing-machine. No. 1,145,118; July 6; Gaz. vol. 216; p. 51.
- Christie, Benjamin J., assignor of one-half to E. Becker, Denver, Colo. Composition for covering steam-pipes, &c. No. 1,161,289; Nov. 23; Gaz. vol. 220; p. 1148.
- Christie, Evi W., Seward, assignor to Wheeler Condenser and Engineering Company, Carteret, N. J. Condensing apparatus. No. 1,135,661; Apr. 13; Gaz. vol. 213; p. 603.
- Christlein, Paul, Nuremberg, and G. Möller, Charlottenburg, Berlin, Germany. Condensing apparatus. No. 1,166,324; Dec. 28; Gaz. vol. 221; p. 1384.
- Christman, Charles F., Winslow, Ariz. Fire-alarm system. No. 1,143,809; June 22; Gaz. vol. 215; p. 1052.
- Christman, Henry. (See Ammon, John, assignor.)
- Christman, Henry G., South Bend, Ind. Clamping device. No. 1,128,585; Feb. 16; Gaz. vol. 211; p. 761.
- Christoe, Harry C., Alton, Ill. Automatic conveyor and distributor. No. 1,142,025; June 8; Gaz. vol. 215; p. 368.
- Christoffel, Thomas, Menominee, Wis. Window-frame. No. 1,135,662; Apr. 13; Gaz. vol. 213; p. 604.
- Christofferson, Christian A., and W. M. McClintock, St. Paul, Minn. Battery-well. No. 1,158,894; Nov. 2; Gaz. vol. 220; p. 170.
- Christofferson, Silas, assignor of one-half to L. K. Tevis, San Francisco, Cal. Adjustable coupling for aeroplane stay-wires. No. 1,159,472; Nov. 9; Gaz. vol. 220; p. 403.
- Christoph, Edward A. (See Elvyn and Christoph.)
- Christoph, Edward A. (See Kellaway and Christoph.)
- Christoph, Edward A., and E. T. Mueller, Chicago, Ill. Sharpening device. No. 1,165,750; Dec. 28; Gaz. vol. 221; p. 1180.
- Christophel, Lewis W., University City, Mo. Hinge. No. 1,132,560; Mar. 23; Gaz. vol. 212; p. 1074.
- Christopher, John R., Maben, Miss. Machine for removing boll-weevil. No. 1,156,208; Oct. 12; Gaz. vol. 219; p. 331.
- Christopher, Walter B., assignor of one-half to C. C. Baxter, Birmingham, Ala. Automobile-clamp. No. 1,145,293; July 6; Gaz. vol. 216; p. 110.
- Christopher, Walter B., assignor of one-half to C. C. Baxter, Birmingham, Ala. Collapsible rim. No. 1,154,288; Sept. 21; Gaz. vol. 218; p. 749.
- Christopher, William E., Bessemer, assignor of one-half to F. Broderick, Birmingham, Ala. Adjustable spring-puller. No. 1,139,488; May 18; Gaz. vol. 214; p. 695.
- Christophersen, Hagbart S., Odense, Denmark. Tire-alarm. No. 1,148,357; July 27; Gaz. vol. 216; p. 1255.
- Christopherson, Mansell, New Ellington, S. D. Clevis. No. 1,155,887; Oct. 5; Gaz. vol. 219; p. 196.
- Christy, Guy H., assignor of two-fifths to O. Boyea, Santa Cruz, Cal. Mail-bag receiver. No. 1,127,732; Feb. 9; Gaz. vol. 211; p. 414.
- Christy, Guy H., assignor of two-fifths to O. Boyea, Santa Cruz, Cal. Mail-bag-cast-off device. No. 1,129,273; Feb. 23; Gaz. vol. 211; p. 1037.
- Christy, Guy H., assignor of two-fifths to O. Boyea, Santa Cruz, Cal. Mail-bag-pick-up mechanism. No. 1,150,417; Aug. 17; Gaz. vol. 217; p. 853.
- Christy, Henry A., Kenilworth, assignor to American Car Roof Co., Chicago, Ill. Rail-joint. No. 1,153,153; Sept. 7; Gaz. vol. 218; p. 277.
- Christy, Henry A., Kenilworth, assignor to American Car Roof Co., Chicago, Ill. Draft-gear. No. 1,165,751; Dec. 28; Gaz. vol. 221; p. 1180.
- Christy, Henry A., Kenilworth, assignor to American Car Roof Co., Chicago, Ill. Draft-gear. No. 1,165,752; Dec. 28; Gaz. vol. 221; p. 1180.
- Christy, Joseph M., Des Moines, Iowa. Loader for box cars. No. 1,131,038; Mar. 9; Gaz. vol. 212; p. 450.
- Chromasta, Adolf H. (See Harris and Chromasta.)
- Chryst, William A. (See Kettering and Chryst.)
- Chryst, William A., assignor to The National Cash Register Company, Dayton, Ohio. Cash and autographic register. No. 1,140,443; May 25; Gaz. vol. 214; p. 1065.
- Chryst, William A., assignor to The National Cash Register Company, Dayton, Ohio. Multiple cash-register. No. 1,161,026; Nov. 23; Gaz. vol. 220; p. 1052.
- Chrzescinski, Otto. (See Merling, Chrzescinski, and Köhler.)
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic rectifier. No. 1,156,666; Oct. 12; Gaz. vol. 219; p. 493.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Contact device. No. 1,162,571; Nov. 30; Gaz. vol. 220; p. 1637.
- Chubbuck, H. Eugene, Peoria, Ill. Route-sign for street-cars. No. 1,142,491; June 8; Gaz. vol. 215; p. 532.
- Chubbuck, Orlo P., Peoria, Ill., assignor to Avery Company. Antislipping device for tires. No. 1,131,116; Mar. 9; Gaz. vol. 212; p. 476.
- Chupka, Miklos, Johnstown, Pa. Life-boat and launching-davit therefor. No. 1,136,938; Apr. 27; Gaz. vol. 213; p. 1130.
- Church, Clarence M., Arnold, Pa. Duplex pump. No. 1,144,298; June 22; Gaz. vol. 215; p. 1225.
- Church, Clarence M., Arnold, Pa. Duplex pump. No. 1,164,169; Dec. 14; Gaz. vol. 221; p. 547.
- Church, Earl D., Hartford, Conn. Rifle-range shot-indicator. No. 1,139,846; May 18; Gaz. vol. 214; p. 821.
- Church, Edmund S., Dayton, Ohio, assignor, by mesne assignments, to G. L. Church, Chicago, Ill. Internal-combustion engine. No. 1,133,007; Mar. 23; Gaz. vol. 212; p. 1240.
- Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,134,183; Apr. 6; Gaz. vol. 213; p. 36.

Alphabetical list of patentees—Continued.

- Church, Edmund S., assignor to National Cash Register Company, Dayton, Ohio. Cash and credit register. No. 1,136,101; Apr. 20; Gaz. vol. 213; p. 796.
- Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Reading and resetting device. No. 1,138,844; May 11; Gaz. vol. 214; p. 434.
- Church, Edmund S., assignor to National Cash Register Company, Dayton, Ohio. Adding and subtracting machine. No. 1,142,931; June 15; Gaz. vol. 215; p. 723.
- Church, George W., Wichita Falls, Tex. Well stuffing-box. No. 1,160,691; Nov. 16; Gaz. vol. 220; p. 891.
- Church, Georgiana L. (See Church, Edmund S., assignor.)
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,158,638; Nov. 2; Gaz. vol. 220; p. 81.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Ball-and-socket connection. No. 1,159,473; Nov. 9; Gaz. vol. 220; p. 404.
- Church, Herbert B., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Machine for carding safety-pins, &c. No. 1,133,363; Mar. 20; Gaz. vol. 212; p. 1402.
- Church, Ira A., Ontario, Cal. Bench-dog. No. 1,132,703; Mar. 23; Gaz. vol. 212; p. 1127.
- Church, James E., Cambridge, Mass. Game apparatus. No. 1,156,667; Oct. 12; Gaz. vol. 219; p. 494.
- Church, Leo, Moberg, S. D. Indicator. No. 1,139,489; May 18; Gaz. vol. 214; p. 695.
- Church, Lewis H. (See McMurtree and Church.)
- Church, Melvin B., Grand Rapids, Mich. Covering for walls and other surfaces. No. 1,166,325; Dec. 28; Gaz. vol. 221; p. 1384.
- Church, Philetus M., assignor to National Service Selling Company, Saginaw, Mich. Knife-sharpener. No. 1,154,375; Sept. 21; Gaz. vol. 218; p. 781.
- Church, Sumner R., Brooklyn, assignor to Barrett Manufacturing Company, New York, N. Y. Weather and flame resistant shingle, &c., and making same. No. 1,155,130; Sept. 28; Gaz. vol. 218; p. 1067.
- Church, Sumner R., Brooklyn, assignor to Barrett Manufacturing Company, New York, N. Y. Weather and flame resistant composition for fibrous materials, &c. No. 1,162,453; Nov. 30; Gaz. vol. 220; p. 1598.
- Churchill, Bert, Toulon, Ill. Corner putty-knife. No. 1,156,209; Oct. 12; Gaz. vol. 219; p. 332.
- Churchill, Floraman T., East Peacham, Vt. Plow. No. 1,135,879; Apr. 13; Gaz. vol. 213; p. 678.
- Churchill, George A. H., Rumson, N. J. Binding-post. No. 1,152,705; Sept. 7; Gaz. vol. 218; p. 120.
- Churchill, James, Reward, Cal. Pitman-boxing. No. 1,148,358; July 27; Gaz. vol. 216; p. 1255.
- Churchill, James H., Quincy, Mass. Golf-iron. No. 1,128,288; Feb. 16; Gaz. vol. 211; p. 660.
- Churchill, John, Mount Carmel, Pa. Dirigible headlight. No. 1,130,478; Mar. 2; Gaz. vol. 212; p. 224.
- Churchill, William, Corning, assignor to Corning Glass Works, New York, N. Y. Light signaling system. No. 1,126,705; Feb. 2; Gaz. vol. 211; p. 13.
- Churchward, Alexander, Boston, Mass. Electric-lighting and battery-charging system for vehicles. No. 1,152,878; Sept. 7; Gaz. vol. 218; p. 183.
- Churchward, Alexander, Boston, Mass. Power-transmission means for operating dynamos. No. 1,153,372; Sept. 14; Gaz. vol. 218; p. 395.
- Churnside, John. (See McLane and Churnside.)
- Chute, George G., and C. A. Groat, Portland, Oreg. Engine-starter. No. 1,136,464; Apr. 20; Gaz. vol. 213; p. 926.
- Czybyczyński, Ludwik. (See Jarnuszkiewicz, Chmielewski, Szczesny, and Czybyczyński.)
- Clarcelli, Leo, Bristol, R. I. Billiard-cue-tip fastener. No. 1,139,340; May 11; Gaz. vol. 214; p. 605.
- Clario, Esteban, Fountain Hill, Pa. Mechanical movement. No. 1,149,728; Aug. 10; Gaz. vol. 217; p. 547.
- Cibulas, Stephen E., Bridgeport, Conn. Self-locking window-operating device. No. 1,157,760; Oct. 26; Gaz. vol. 219; p. 969.
- Cigar Wrapper Register Company. (See Strasser, David, assignor.)
- Cigol, Frank A., Paterson, N. J. Forming hollow articles of rubber. No. 1,139,341; May 11; Gaz. vol. 214; p. 605.
- Ciley, Cassius S., Salem, Mass. Chair-lock. No. 1,155,043; Sept. 28; Gaz. vol. 218; p. 1034.
- Cincinnati-Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
- Cincinnati Coffin Company, The. (See Orr, John F., assignor.)
- Cincinnati Frog & Switch Company, The. (See Partington, Charles, assignor.)
- Cincinnati Gear Cutting Machine Company, The. (See Murray, Aristides R., assignor.)
- Cincinnati Milling Machine Co., The. (See Chace, Ernest M., assignor.)
- Cincinnati Milling Machine Co., The. (See Hazelton and Einstein, assignors.)
- Cincinnati Milling Machine Company, The. (See De Leeuw, Adolph L., assignor.)
- Cincinnati Milling Machine Company, The. (See Edgar, John, assignor.)
- Cincinnati Milling Machine Company, The. (See Einstein, Sol, assignor.)
- Cincinnati Milling Machine Company, The. (See Hazelton, Robert T., assignor.)
- Cincinnati Planer Company, The. (See Reston, Henry P., assignor.)
- Cincinnati Pulley Machinery Company. (See Hey, John G., assignor.)
- Cipolloni, Joseph, Franklin, Ky. Washboard. No. 1,155,888; Oct. 5; Gaz. vol. 219; p. 196.
- Cirigliano, Giovanni B., Turin, Italy. Compasses for describing ellipses. No. 1,128,289; Feb. 16; Gaz. vol. 211; p. 660.
- Citizens Savings & Trust Company, The, executor. (See Glauber, Joseph H.)
- Citizens Savings and Trust Company, The, trustee. (See Hughes, Dow B., assignor.)
- Cizek, Albert F., Tacoma, Wash. Ship-propeller. No. 1,134,670; Apr. 6; Gaz. vol. 213; p. 215.
- Claar, George C. (See Corle and Claar.)
- Clabby, Michael J., and W. H. Fallon, Bridgeport, Conn., assignors to Remington Typewriter Company, Ill. N. Y. Ribbon-spool. No. 1,146,551; July 13; Gaz. vol. 216; p. 573.
- Clade, Robert, Newark, assignor to Air Turbine Company of America, Jersey City, N. J. Windmill. No. 1,139,103; May 11; Gaz. vol. 214; p. 525.
- Claessens, Joseph F., and F. A. Geiger, Rochester, N. Y. Flying-machine. No. 1,133,707; Mar. 30; Gaz. vol. 212; p. 1527.
- Claeson, Gunnar, Superior, Wis. Animal-trap. No. 1,131,908; Mar. 16; Gaz. vol. 212; p. 788.
- Cladfin, Charles R. B. (See Wilson and Cladfin.)
- Clague, Thomas M., Newcastle-upon-Tyne, England. Extracting metals from living bodies. No. 1,123,683; Jan. 5; Gaz. vol. 210; p. 166.
- Claihorn, William I., Crocker, Mo. Collapsible crate. No. 1,158,984; Nov. 2; Gaz. vol. 220; p. 199.
- Claihorne, Alexander, Palms, assignor to Western Pipe & Steel Company of California, Los Angeles, Cal. Pipe-repairing device. No. 1,154,376; Sept. 21; Gaz. vol. 218; p. 781.
- Clair, John J. (See Koebel, Otto P., assignor.)
- Clairemont, Victor, San Francisco, Cal. Preserving eggs. No. 1,127,733; Feb. 9; Gaz. vol. 211; p. 414.
- Clanton, William M., Jr., Daisy, Ga. Syrup-skimmer. No. 1,129,789; Feb. 23; Gaz. vol. 211; p. 1215.
- Clapcott, Frederick B., Mount Eden, near Auckland, New Zealand. Gate-fastening. No. 1,136,102; Apr. 20; Gaz. vol. 213; p. 796.
- Clapham, George H., Manchester, England. Holder for eyeglasses and the like articles. No. 1,140,024; May 18; Gaz. vol. 214; p. 885.
- Clapp, Albert L., Braintree, Mass. Fiber-working process and product. No. 1,148,359; July 27; Gaz. vol. 216; p. 1255.
- Clapp, Albert L., Braintree, assignor to Hide-It Leather Company, Boston, Mass. Making leather-board. No. 1,128,290; Feb. 16; Gaz. vol. 211; p. 661.
- Clapp, Albert L., Braintree, assignor to Hide-It Leather Company, Boston, Mass. Leather-board and producing the same. No. 1,131,039; Mar. 9; Gaz. vol. 212; p. 451.
- Clapp, Albert L., Braintree, assignor to Hide-It Leather Company, Boston, Mass. Producing stock for leather-board and leather-board. No. 1,152,294; Aug. 31; Gaz. vol. 217; p. 1602.
- Clapp, Arthur W., San Francisco, Cal., assignor to F. E. Mix, Minneapolis, Minn. Envelop. No. 1,125,964; Jan. 26; Gaz. vol. 210; p. 1087.
- Clapp, Charles R., Evanston, Ill. Aeroplane. No. 1,157,616; Oct. 19; Gaz. vol. 219; p. 853.
- Clapp, Clark E., St. Joseph, Mo. Automobile attachment. No. 1,164,925; Dec. 21; Gaz. vol. 221; p. 851.
- Clapp, Clark E., assignor of one-half to R. L. and W. I. Green, St. Joseph, Mo. Train-stopping apparatus. No. 1,142,492; June 8; Gaz. vol. 215; p. 532.
- Clapp, Edward D., Washington, D. C. Steering mechanism. No. 1,139,399; May 11; Gaz. vol. 214; p. 627.
- Clapper, J. S., et al. (See Strite and Bierman, assignors.)
- Clapper, Leland, Two Harbors, Minn. Ore-bin-door-operating mechanism. No. 1,164,702; Dec. 21; Gaz. vol. 221; p. 774.
- Clare, Charlie R., Laddonia, Mo. Disk-harrow attachment. No. 1,124,703; Jan. 12; Gaz. vol. 210; p. 571.
- Clare, James P., Stratham, N. H. Self-healing composition for inner tubes of tires. No. 1,137,461; Apr. 27; Gaz. vol. 213; p. 1321.
- Claren, Ferdinand L., assignor to Drägerwerk Hehn, & Bernh. Dräger, Lübeck, Germany. Freely-portable breathing apparatus. No. 1,144,812; June 29; Gaz. vol. 215; p. 1430.
- Claren, Ferdinand L., assignor to Drägerwerk, Hehn, & Bernh. Dräger, Lübeck, Germany. Diver's dress consisting of a shirt or jacket and separate trousers. No. 1,153,030; Sept. 7; Gaz. vol. 218; p. 237.
- Claridge, Rupert R. (See Starr, William B., assignor.)
- Clarinda Lawn Mower Company. (See Brown, Levi, assignor.)
- Clark, Albert C., assignor to A. C. Clark & Company, Chicago, Ill. Device for mixing gases. No. 1,156,975; Oct. 19; Gaz. vol. 219; p. 631.

Alphabetical list of patentees—Continued.

- Clark, Alexander P. (See Spence and Clark.)
- Clark, Alfred, and G. Warren, Philadelphia, Pa. Metal-sash joint. No. 1,123,847; Jan. 5; Gaz. vol. 210; p. 221.
- Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Method of and means for equalizing the potentials of grounding-points. No. 1,126,956; Feb. 2; Gaz. vol. 211; p. 102.
- Clark, Arnold. (See Baldwin, Guy, assignor.)
- Clark, Arthur I., Edgewood, assignor to F. L. Smith, F. W. Gale, E. Maertens, J. M. Howard, Providence, J. C. Taylor, Cranston, R. I. and W. T. Lawrence, Boston, Mass. Starting mechanism for explosion-engines. No. 1,165,849; Dec. 28; Gaz. vol. 221; p. 1212.
- Clark, Ben F., Wichita, Kans. Nest. No. 1,152,706; Sept. 7; Gaz. vol. 218; p. 120.
- Clark, Bennett F., assignor to The Carborundum Company, Niagara Falls, N. Y. Work-holding attachment for grinding-machines. No. 1,155,213; Sept. 28; Gaz. vol. 218; p. 1094.
- Clark Blade & Razor Company. (See Molkenhuth, Joseph, Jr., assignor.)
- Clark, Burton E., Pittsburgh, Pa. Wheel for roller-skates. No. 1,130,794; Mar. 9; Gaz. vol. 212; p. 366.
- Clark, Byron G., London, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lacing-stud for boots, gloves, and the like. No. 1,161,027; Nov. 23; Gaz. vol. 220; p. 1053.
- Clark, Cadwallader J. (See Clark, Ambrose, and Clark.)
- Clark Car Company. (See Clark, Charles H., assignor.)
- Clark Caster Company, The. (See Allen, Robert S., assignor.)
- Clark, Charles A., Auburn, N. Y. Slivering-machine. No. 1,156,210; Oct. 12; Gaz. vol. 219; p. 332.
- Clark, Charles B., East Orange, N. J. Electric-lamp socket. No. 1,153,195; Sept. 14; Gaz. vol. 218; p. 331.
- Clark, Charles H., New York, N. Y. Reduction-gearing. No. 1,142,401; June 8; Gaz. vol. 215; p. 500.
- Clark, Charles H., Springfield, Ohio. Scrubbing device. No. 1,146,308; July 13; Gaz. vol. 216; p. 486.
- Clark, Charles H., Crafton, assignor to Clark Car Company, Pittsburgh, Pa. Dump-car. No. 1,136,315; Apr. 20; Gaz. vol. 213; p. 872.
- Clark, Charles H., Crafton, assignor to Clark Car Company, Pittsburgh, Pa. Ore-dump car. No. 1,136,316; Apr. 20; Gaz. vol. 213; p. 873.
- Clark, Charles H., Crafton, assignor to Clark Car Company, Pittsburgh, Pa. Dump-car doors. No. 1,136,317; Apr. 20; Gaz. vol. 213; p. 873.
- Clark, Charles H., Crafton, assignor to Clark Car Company, Pittsburgh, Pa. Gondola car. No. 1,136,318; Apr. 20; Gaz. vol. 213; p. 873.
- Clark, Charles H., Easton, assignor of one-third to D. Pelletier, Fort Kent, Me. Basket. No. 1,137,698; Apr. 27; Gaz. vol. 213; p. 1398.
- Clark, Charles H., assignor to Clark Flexible Company, Inc., New York, N. Y. Flexible coupling. No. 1,147,373; July 20; Gaz. vol. 216; p. 879.
- Clark, Charles H., Jr., New York; N. Y. Mechanical toy. No. 1,136,465; Apr. 20; Gaz. vol. 213; p. 927.
- Clark, Charles J., assignor of one-half to J. B. Dibelka, Chicago, Ill. Rotary gas-engine. No. 1,146,848; July 20; Gaz. vol. 216; p. 695.
- Clark, Charles J., assignor of one-half to J. B. Dibelka, Chicago, Ill. Rotary gas-engine. No. 1,155,794; Oct. 5; Gaz. vol. 219; p. 164.
- Clark, Charles M., Chicago, Ill. Automatic high and low water alarm for boilers. No. 1,149,497; Aug. 10; Gaz. vol. 217; p. 462.
- Clark, Charlie N., Minneapolis, Minn. Floor-engaging furniture-support. No. 1,159,570; Nov. 9; Gaz. vol. 220; p. 437.
- Clark, Charlie N., Minneapolis, Minn. Caster-socket. No. 1,159,571; Nov. 9; Gaz. vol. 220; p. 437.
- Clark, Chas. H., et al. (See Saint, Lee G., assignor.)
- Clark, Chester E., New York, N. Y. Gas-generating system. No. 1,147,608; July 20; Gaz. vol. 216; p. 962.
- Clark, Claude D., New Britain, Conn. Barrel-making machine. No. 1,130,888; Mar. 9; Gaz. vol. 212; p. 399.
- Clark, Clifford R., New Haven, assignor of one-half to F. H. Leonard, West Haven, Conn. Stretcher. No. 1,159,746; Nov. 9; Gaz. vol. 220; p. 501.
- Clark, Clinton W. (See Bacon, Brooks, and Clark.)
- Clark Company, The W. J. (See Clark, William H. and W. J., assignors.)
- Clark, Cornelius S., Norfolk, Va. Filler-block for rails. No. 1,163,214; Dec. 7; Gaz. vol. 221; p. 168.
- Clark, David P., and C. F. Black; said Black assignor to said Clark, Dayton, Ohio. Toy. No. 1,128,291; Feb. 16; Gaz. vol. 211; p. 661.
- Clark, Edgar H., Austin, Ill., assignor to Western Electric Company, New York, N. Y. Automatic switching system. No. 1,125,965; Jan. 26; Gaz. vol. 210; p. 1087.
- Clark, Edgar H., Austin, Ill., assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,127,405; Feb. 9; Gaz. vol. 211; p. 299.
- Clark, Edgar J., et al. (See Markham, Andrew J., assignor.)
- Clark, Edgar M., Alton, Ill., assignor to Standard Oil Company, Whiting, Ind., and Chicago, Ill. Petroleum distillation. No. 1,129,034; Feb. 16; Gaz. vol. 211; p. 919.
- Clark, Edgar M., Alton, Ill., assignor to Standard Oil Company, Whiting, Ind. Petroleum distillation. No. 1,132,163; Mar. 16; Gaz. vol. 212; p. 881.
- Clark, Edward A., Norfolk, Va. Bath-heater. No. 1,148,009; July 27; Gaz. vol. 216; p. 1129.
- Clark, Edward C., Nutley, N. J. Grate-bar. No. 1,145,349; July 6; Gaz. vol. 216; p. 129.
- Clark, Edward L. C., assignor to The Noiseless Typewriter Company, Middletown, Conn. Paper-feed-release mechanism for type-writing machines. No. 1,163,971; Dec. 14; Gaz. vol. 221; p. 478.
- Clark, Edwin W., Chicago, Ill. Pump. No. 1,164,926; Dec. 21; Gaz. vol. 221; p. 852.
- Clark, Elmer A., Joliet, Ill. Mixing-machine. No. 1,158,178; Oct. 26; Gaz. vol. 219; p. 1116.
- Clark, Emerson L., Lakewood, Ohio. Headlight. No. 1,136,507; Apr. 20; Gaz. vol. 213; p. 942.
- Clark, Emerson L., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Compression-rheostat. No. 1,143,810; June 22; Gaz. vol. 215; p. 1052.
- Clark, Emerson L., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Battery-tester. No. 1,148,218; July 27; Gaz. vol. 216; p. 1204.
- Clark, Emerson L., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Compression-rheostat. No. 1,154,377; Sept. 21; Gaz. vol. 218; p. 781.
- Clark, Epaminondas, New York, N. Y. Nasal liquid-inhaler. No. 1,130,961; Mar. 9; Gaz. vol. 212; p. 423.
- Clark, Ernest B., et al. (See Patterson, Charles A., assignor.)
- Clark, Ernest G., De Kalb, assignor to Melville Clark Piano Company, Chicago, Ill. Machine for applying expression-indicating lines and the like to perforated note-sheets. No. 1,137,259; Apr. 27; Gaz. vol. 213; p. 1248.
- Clark, Ernest G., De Kalb, assignor to Melville Clark Piano Company, Chicago, Ill. Note-sheet-perforating apparatus. No. 1,148,147; July 27; Gaz. vol. 216; p. 1180.
- Clark, Ernest G., De Kalb, assignor to Melville Clark Piano Company, Chicago, Ill. Die for perforated note-sheets. No. 1,159,830; Nov. 9; Gaz. vol. 220; p. 532.
- Clark, Ernest P., Morrison, Fla. Draw-bar attachment. No. 1,135,880; Apr. 13; Gaz. vol. 213; p. 678.
- Clark Flexible Company. (See Clark, Charles H., assignor.)
- Clark, Francis M., Garden City, N. Y., assignor to Multiple Grate-Bar Endless Chain Stoker Company. Grate for mechanical stokers. No. 1,125,473; Jan. 19; Gaz. vol. 210; p. 880.
- Clark, Francis M., Garden City, N. Y., assignor to Multiple Grate-Bar Endless Chain Stoker Company. Grate for mechanical stokers. No. 1,125,474; Jan. 19; Gaz. vol. 210; p. 880.
- Clark, Frank, Scranton, Pa. Crank-wheel. No. 1,149,029; Aug. 3; Gaz. vol. 217; p. 193.
- Clark, Frank J., Milwaukee, Wis. Sheet-guide for pneumatically-actuated mechanism. No. 1,158,639; Nov. 2; Gaz. vol. 220; p. 81.
- Clark, Frank T., Luther, Okla. Peanut-digger. No. 1,162,137; Nov. 30; Gaz. vol. 220; p. 1490.
- Clark, Franklin J., Montclair, N. J. Garbage-can cover. No. 1,153,288; Sept. 14; Gaz. vol. 218; p. 364.
- Clark, Fred B., Denver, Colo. Filtering-cup. No. 1,137,462; Apr. 27; Gaz. vol. 213; p. 1321.
- Clark, Frederick A., Cape Charles, Va. Grater. No. 1,160,043; Nov. 9; Gaz. vol. 220; p. 606.
- Clark, Frederick J., assignor to Eastman Machine Company, Buffalo, N. Y. Cloth-cutting machine. No. 1,133,839; Mar. 30; Gaz. vol. 212; p. 1573.
- Clark, Frederick W. (See Rock, John G., assignor.)
- Clark, George C., Fruitvale, assignor of four-fifths to W. H. Maxson, Oakland, and C. A. Graham, Nevada City, Cal. Electric type-writing telegraph apparatus. No. 1,124,704; Jan. 12; Gaz. vol. 210; p. 571.
- Clark, George E. (See Clark, Irrgang, and Clark.)
- Clark, George E., assignor to George P. Clark Company, Windsor Locks, Conn. Elevating-truck. No. 1,136,905; Apr. 20; Gaz. vol. 213; p. 1082.
- Clark, George H., Waterloo, Iowa. Game apparatus. No. 1,131,210; Mar. 9; Gaz. vol. 212; p. 509.
- Clark, George J. J., et al. (See Snell, Harry, assignor.)
- Clark, George M., Jr., Nahant, Mass., assignor to R. Hoe and Co., New York, N. Y. Apparatus for making castings. No. 1,160,973; Nov. 16; Gaz. vol. 220; p. 989.
- Clark, George P., W. F. Irrgang, and G. E. Clark, assignors to George P. Clark Company, Windsor Locks, Conn. Truck. No. 1,152,788; Sept. 7; Gaz. vol. 218; p. 149.
- Clark, George W. (See McGrath and Clark.)
- Clark, Gordon H., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Clip for pens, pencils, &c. No. 1,155,641; Oct. 5; Gaz. vol. 219; p. 110.
- Clark, Harrison, Inman, Va. Clevis. No. 1,163,215; Dec. 7; Gaz. vol. 221; p. 168.
- Clark, Harrison T., San Francisco, Cal. Distributer. No. 1,123,246; Jan. 5; Gaz. vol. 210; p. 15.
- Clark, Harry A., Crockett, Cal. Sanitary loaf-sugar dispenser. No. 1,125,653; Jan. 19; Gaz. vol. 210; p. 943.

Alphabetical list of patentees—Continued.

- Clark, Harry W., assignor of one-third to F. C. Powell, Kansas City, Kans., and one-third to S. I. Wedlansky, Kansas City, Mo. Cigar-lighter. No. 1,147,784; July 27; Gaz. vol. 216; p. 1049.
- Clark, Iias, Kansas City, Mo., assignor of two-thirds to J. R. Green, Oklahoma, Okla., and T. T. Bathurst, Kansas City, Mo. Electrical water-purifying appliance. No. 1,163,321; Dec. 7; Gaz. vol. 221; p. 205.
- Clark, Hinman H., Seattle, Wash. Folded letter-card. No. 1,141,172; June 1; Gaz. vol. 215; p. 29.
- Clark, Horace F. (See Kittenhouse, Irvin, assignor.)
- Clark, Ira P., Decatur, assignor of one-fourth to W. B. Hunter, Hagarstown, Ill. Water-closet. No. 1,140,252; May 18; Gaz. vol. 214; p. 963.
- Clark, Irving L., Newark, N. J. Automatic train-stop. No. 1,124,296; Jan. 12; Gaz. vol. 210; p. 424.
- Clark, J. D., *et al.* (See Farmer, James, assignor.)
- Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Repair device for pipe-lines. No. 1,165,388; Dec. 28; Gaz. vol. 221; p. 1051.
- Clark, James B., Morgan City, La. Pole-climber. No. 1,147,609; July 20; Gaz. vol. 216; p. 962.
- Clark, James C. (See Lawrence, John R., assignor.)
- Clark, James C., Louisville, Colo. Safety attachment for elevators. No. 1,127,592; Feb. 9; Gaz. vol. 211; p. 364.
- Clark, James H., Corydon, Iowa. Door or gate latch. No. 1,165,493; Dec. 28; Gaz. vol. 221; p. 1089.
- Clark, James H., assignor of two-thirds to J. M. Russell, St. Johns, Oreg. Headlight for motor-vehicles. No. 1,144,813; June 29; Gaz. vol. 215; p. 1430.
- Clark, James H., St. Maries, Idaho, assignor of one-half to J. M. Russell, Portland, Oreg. Engine-starter. No. 1,157,761; Oct. 26; Gaz. vol. 219; p. 969.
- Clark, James M., Stonington, Ill. Splice for vehicle shaft-poles. No. 1,158,895; Nov. 2; Gaz. vol. 220; p. 171.
- Clark, James M., 3d, Buffalo, N. Y. Starting device for gas-operated motors. No. 1,144,349; June 29; Gaz. vol. 215; p. 1272.
- Clark, James M., 3d, assignor to Clark Patents Company, Inc., Buffalo, N. Y. Target-practice apparatus. No. 1,125,475; Jan. 19; Gaz. vol. 210; p. 881.
- Clark, Jesse R., Chicago, Ill., assignor to The Forbes Lithograph Mfg. Co., Boston, Mass. Educational device. No. 1,139,256; May 11; Gaz. vol. 214; p. 577.
- Clark, John C., Atlanta, Ga. Pulverizing-mill. No. 1,127,964; Feb. 9; Gaz. vol. 211; p. 497.
- Clark, John L., Phoenix, Ariz. Wheel. No. 1,152,295; Aug. 31; Gaz. vol. 217; p. 1603.
- Clark, John L., Jr., Fairhaven, Mass. Necktie. No. 1,139,016; May 11; Gaz. vol. 214; p. 495.
- Clark, John M., Whitestone, N. Y. Steam-engine. No. 1,152,488; Sept. 7; Gaz. vol. 218; p. 38.
- Clark, John R., Earle, Ark. Billiard-cue tip. No. 1,164,781; Dec. 21; Gaz. vol. 221; p. 801.
- Clark, John W., Kimmell, Ind. Gate. No. 1,139,163; May 11; Gaz. vol. 214; p. 546.
- Clark, Lawrence A. (See Harris, Moses A., assignor.)
- Clark, Le Roy, Englewood, N. J. Coupling-connector for submarine cables. No. 1,152,005; Aug. 31; Gaz. vol. 217; p. 1502.
- Clark, Margaret M., Newport, Pa. Mailing-package. No. 1,130,889; Mar. 9; Gaz. vol. 212; p. 399.
- Clark, Melville, Chicago, Ill. Safety device for motor-driven road-vehicles. No. 1,127,406; Feb. 9; Gaz. vol. 211; p. 299.
- Clark, Melville, Chicago, Ill. Vehicle wheel-tire. No. 1,130,146; Mar. 2; Gaz. vol. 212; p. 105.
- Clark, Melville, Chicago, Ill. Vehicle wheel-tire. No. 1,130,795; Mar. 9; Gaz. vol. 212; p. 367.
- Clark, Melville, Chicago, Ill. Pneumatic-tired vehicle-wheel. No. 1,135,258; Apr. 13; Gaz. vol. 213; p. 460.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Combined recording and playing mechanism for automatic musical instruments. No. 1,132,441; Mar. 16; Gaz. vol. 212; p. 983.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Vent-regulator for pneumatic actions. No. 1,132,650; Mar. 23; Gaz. vol. 212; p. 1108.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Modulating device and muffler for pneumatic piano-players. No. 1,136,656; Apr. 20; Gaz. vol. 213; p. 994.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Pneumatic action for automatic players. No. 1,141,379; June 1; Gaz. vol. 215; p. 105.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Pneumatic action for interior piano-players. No. 1,160,260; Nov. 16; Gaz. vol. 220; p. 736.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Motor-support for musical-instrument bellows. No. 1,162,138; Nov. 30; Gaz. vol. 220; p. 1491.
- Clark, Melville A., Syracuse, N. Y. Harp-harness. No. 1,133,615; Mar. 30; Gaz. vol. 212; p. 1493.
- Clark, Melville A., Syracuse, N. Y. Harp. No. 1,133,616; Mar. 30; Gaz. vol. 212; p. 1493.
- Clark, Merrill E., New York, N. Y. Aeroplane. No. 1,140,444; May 25; Gaz. vol. 214; p. 1066.
- Clark, Merrill E., Bradford, Pa. Ball-bearing. No. 1,158,106; Oct. 26; Gaz. vol. 219; p. 1091.
- Clark, Myron H., Hastings-upon-Hudson, N. Y. Marking rubber articles. No. 1,161,614; Nov. 23; Gaz. vol. 220; p. 1261.
- Clark, Myron H., Hastings-upon-Hudson, N. Y., assignor to Goodyear's Metallic Rubber Shoe Company. Boot or shoe. No. 1,162,454; Nov. 30; Gaz. vol. 220; p. 1598.
- Clark, Norris E., Plainville, Conn. Metal fabric. No. 1,128,659; Feb. 16; Gaz. vol. 211; p. 787.
- Clark, Norris E., Plainville, Conn. Machine for making corner-bead, &c. No. 1,129,454; Feb. 23; Gaz. vol. 211; p. 1101.
- Clark, Norris E., Plainville, Conn. Metal fabric. No. 1,134,513; Apr. 6; Gaz. vol. 213; p. 157.
- Clark, Norris E., Plainville, Conn. Concrete reinforcement. No. 1,138,932; May 11; Gaz. vol. 214; p. 463.
- Clark, Norris E., Plainville, Conn. Machine for making corner-bead blanks. No. 1,142,493; June 8; Gaz. vol. 215; p. 533.
- Clark, Norris E., Plainville, Conn. Corner-bead manufacture. No. 1,142,494; June 8; Gaz. vol. 215; p. 533.
- Clark, Norris E., Plainville, Conn. Metal-working. No. 1,146,552; July 13; Gaz. vol. 216; p. 574.
- Clark, Norris E., Plainville, Conn. Metal-working. No. 1,146,553; July 13; Gaz. vol. 216; p. 574.
- Clark, Norris E., Plainville, Conn. Metal-working machine. No. 1,146,554; July 13; Gaz. vol. 216; p. 574.
- Clark, Norris E., Plainville, Conn. Metal-working. No. 1,165,071; Dec. 21; Gaz. vol. 221; p. 902.
- Clark, Norris E., Plainville, Conn., assignor to The National Metal-Fabric Company of New York. Expanded-metal manufacture. No. 1,140,117; May 18; Gaz. vol. 214; p. 918.
- Clark, Oliver O., Glendale, Cal. Baby-carrier for vehicles. No. 1,125,005; Jan. 12; Gaz. vol. 210; p. 679.
- Clark, Omar E., assignor, by mesne assignments, to The Denver Rock Drill Manufacturing Company, Denver, Colo. Motor for meters. No. 1,136,103; Apr. 20; Gaz. vol. 213; p. 796.
- Clark Patents Company. (See Clark, James M., 3d, assignor.)
- Clark, Robert G., New York, assignor to J. A. Johnson, Brooklyn, N. Y. Bottle-cap-assembling machine. No. 1,134,031; Mar. 30; Gaz. vol. 212; p. 1636.
- Clark, Robert M., Newton Center, Mass., assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-fusee. No. 1,129,644; Feb. 23; Gaz. vol. 211; p. 1168.
- Clark, Robert M., Newton, G. Ambrose, and C. J. Clark, Needham, Mass., assignors to Central Railway Signal Company, Pittsburgh, Pa. Stop mechanism for tube-making machines. No. 1,165,072; Dec. 21; Gaz. vol. 221; p. 902.
- Clark, Ruth A., Trenton, Mo. Lunch-box. No. 1,142,932; June 15; Gaz. vol. 215; p. 723.
- Clark, Theodore W., assignor to Gibb Instrument Company, Pittsburgh, Pa. Pyrometer method and apparatus. No. 1,147,483; July 20; Gaz. vol. 216; p. 918.
- Clark, Thomas F., West Hoboken, assignor of one-half to Hobbs Wall Paper Company, Hoboken, N. J. Electric cord-plug. No. 1,126,394; Jan. 26; Gaz. vol. 210; p. 1243.
- Clark, Thomas F., West Hoboken, assignor of one-half to Hobbs Wall Paper Company, Hoboken, N. J. Blow-down valve for boilers. No. 1,123,395; Jan. 26; Gaz. vol. 210; p. 1243.
- Clark, Wallace G. (See Locke, William P., assignor.)
- Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Automatic roll adjustment for rolling-mills. No. 1,145,880; July 13; Gaz. vol. 216; p. 336.
- Clark, Whitfield, Anniston, Ala. Logging-car. No. 1,147,311; July 20; Gaz. vol. 216; p. 855.
- Clark, Wilbur T., Ashtabula, Ohio. Compressed-air clstern. No. 1,162,572; Nov. 30; Gaz. vol. 220; p. 1638.
- Clark, William, Bulger, and T. Beadling, Carnegie, Pa. Trolley-wire splice. No. 1,125,816; Jan. 19; Gaz. vol. 210; p. 1004.
- Clark, William D., Portland, Oreg. Preservative treatment of timber. No. 1,165,753; Dec. 28; Gaz. vol. 221; p. 1181.
- Clark, William F., Coraopolis, Pa. Furnace-charging apparatus. No. 1,153,605; Sept. 14; Gaz. vol. 218; p. 479.
- Clark, William H. and W. J., assignors to The W. J. Clark Company, Salem, Ohio. Wheel. No. 1,145,553; July 6; Gaz. vol. 216; p. 202.
- Clark, William J. (See Clark, William H. and W. J.)
- Clark, William J. (See Heron and Clark.)
- Clark, William J., and F. Ryman, assignors to Hammon Coupler Company, Pittsburgh, Pa. Making middle rings for pipe-couplings. No. 1,132,828; Mar. 23; Gaz. vol. 212; p. 1175.
- Clark, William T. (See Peoples and Clark.)
- Clark, William T., Philadelphia, Pa., assignor to Otis Elevator Company, Jersey City, N. J. Shock-absorber. No. 1,140,357; May 25; Gaz. vol. 214; p. 1034.
- Clark, William T. and J. Peoples, Sr., assignors to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Change-speed and reverse mechanism. No. 1,126,396; Jan. 26; Gaz. vol. 210; p. 1244.
- Clark, William W., assignor of one-half to I. J. Boyce, Portland, Oreg. Trolley-pole. No. 1,152,707; Sept. 7; Gaz. vol. 218; p. 120.

Alphabetical list of patentees—Continued.

- Clark, Willie B. (See Weathersby and Clark.)
- Clark, Winthrop A., Stamford, Conn. Lubricating device. No. 1,165,227; Dec. 21; Gaz. vol. 221; p. 958.
- Clarke, Allen W., Jeffersonville, Ind., assignor, to American Car and Foundry Company, St. Louis, Mo. Lighting-fixture shade-holder. No. 1,163,972; Dec. 14; Gaz. vol. 221; p. 478.
- Clarke, Anna C., Scranton, Pa. Sewage system for railway-cars and the like. No. 1,155,550; Oct. 5; Gaz. vol. 219; p. 79.
- Clarke, Cecil M., Chicago, Ill. Insulating material. No. 1,128,759; Feb. 16; Gaz. vol. 211; p. 820.
- Clarke, Charles J., Kingsburg, Cal. Short-turning truck. No. 1,133,838; Mar. 30; Gaz. vol. 212; p. 1573.
- Clarke, Charles W. E. (See Santry, Joseph V., assignor.)
- Clarke, Charles W. E., New York, N. Y. Blower system. No. 1,137,463; Apr. 27; Gaz. vol. 213; p. 1321.
- Clarke, Edward S., deceased; Virginia Trust Company, executor, assignor of one-half to I. J. Marcuse, Richmond, Va. Double-cut tool. No. 1,135,157; Apr. 13; Gaz. vol. 213; p. 427.
- Clarke, George T. F., assignor to Brooks Bank Note Company, Springfield, Mass. Display-stand. No. 1,142,933; June 15; Gaz. vol. 215; p. 724.
- Clarke, Fisher R., Stockton, Cal. Mail-bag. No. 1,125,006; Jan. 12; Gaz. vol. 210; p. 679.
- Clarke, James F., Los Angeles, Cal. Vehicle-step. No. 1,134,032; Mar. 30; Gaz. vol. 212; p. 1637.
- Clarke, James F., Los Angeles, Cal. Step-tread. No. 1,157,083; Oct. 19; Gaz. vol. 219; p. 669.
- Clarke, John L., Albuquerque, N. Mex. Clothes-rack. No. 1,123,247; Jan. 5; Gaz. vol. 210; p. 15.
- Clarke, John Q., Crawfordsville, Ind. Corn-drier. No. 1,155,889; Oct. 5; Gaz. vol. 219; p. 196.
- Clarke, Joseph T., Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y. Ray-filter. No. 1,151,245; Aug. 24; Gaz. vol. 217; p. 1197.
- Clarke, Lewis L., New York, N. Y. Camera. No. 1,132,070; Mar. 16; Gaz. vol. 212; p. 848.
- Clarke, Matthew, Wilkes-Barre, Pa. Saw-holding device. No. 1,143,748; June 22; Gaz. vol. 215; p. 1031.
- Clarke, Matthew, Wilkes-Barre, Pa. Saw-holding device. No. 1,143,749; June 22; Gaz. vol. 215; p. 1031.
- Clarke, Matthew, Wilkes-Barre, Pa. Belt-shifter for coal-jiggers. No. 1,163,216; Dec. 7; Gaz. vol. 221; p. 169.
- Clarke, Nicholas S., and A. L. Bowen, assignors, by mesne assignments, to Compressed Fuel Company, Seattle, Wash. Fuel-pressing machine. No. 1,129,455; Feb. 23; Gaz. vol. 211; p. 1102.
- Clarke, Ralph S., Walpole, Mass., assignor to Wandel Screen Manufacturing Company. Rotary pulp-screen. No. 1,131,599; Mar. 9; Gaz. vol. 212; p. 643.
- Clarke, Ralph S., Walpole, Mass., assignor to Wandel Screen Manufacturing Company. Driving-gear for rotary pulp-screens. No. 1,138,192; May 4; Gaz. vol. 214; p. 165.
- Clarke, Robert. (See Whartnaby and Clarke.)
- Clarke, Robert H., Oakfield, Warlingham, England. Stereographic apparatus. No. 1,129,333; Feb. 23; Gaz. vol. 211; p. 1058.
- Clarke, Robert H., Warlingham, England. Apparatus for gaging the position of and directing access to points within closed surfaces. No. 1,134,106; Apr. 6; Gaz. vol. 213; p. 8.
- Clarke, William C., New York, N. Y. Hammock-bed. No. 1,152,006; Aug. 31; Gaz. vol. 217; p. 1502.
- Clarkson, Florian L., and O. P. Hummon, Leipsic, assignors to The Enterprise Manufacturing Company, Akron, Ohio. Fish-lure. No. 1,131,909; Mar. 16; Gaz. vol. 212; p. 789.
- Clarkson, John L., Gillespie, Ill. Automatic cage-safety. No. 1,150,341; Aug. 17; Gaz. vol. 217; p. 828.
- Clarkson, Thomas A. (See Kirchhofer, August, assignor.)
- Clarkson, William H., Troy, N. Y. Combined demountable rim and resilient tire. No. 1,146,309; July 13; Gaz. vol. 216; p. 486.
- Clarus, Bruno, Liege, Belgium. Breech mechanism of guns. No. 1,143,612; June 22; Gaz. vol. 215; p. 986.
- Clary, Francis W., and C. H. Bissell, assignors to Crouse-Hinds Company, Syracuse, N. Y. Sealing device. No. 1,139,490; May 18; Gaz. vol. 214; p. 695.
- Clary, Irvin W., El Paso, Tex. Tier. No. 1,165,320; Dec. 21; Gaz. vol. 221; p. 988.
- Alaska, Lee W., Garden Valley, Idaho. Tire-chain. No. 1,165,153; Dec. 21; Gaz. vol. 221; p. 933.
- Class, John H., Excello, Ohio. Sash-hanger. No. 1,150,015; Aug. 17; Gaz. vol. 217; p. 712.
- Classon, Albert N., Sheridan, Ill. Flexible coupling. No. 1,164,468; Dec. 14; Gaz. vol. 221; p. 652.
- Clatt, John, Gorin, Mo. Tire-armor. No. 1,133,099; Mar. 23; Gaz. vol. 212; p. 1273.
- Claud, William F., Portsmouth, Va. Safety device for ships. No. 1,145,749; July 6; Gaz. vol. 216; p. 271.
- Claude, Georges, Paris, France. System of illuminating by luminescent tubes. No. 1,125,476; Jan. 19; Gaz. vol. 210; p. 881.
- Claude, Georges, Paris, France. Vacuum discharge-tube for lighting purposes. No. 1,131,910; Mar. 16; Gaz. vol. 212; p. 789.
- Claude, Georges, assignor to Societe L'Air Liquide (Societe Anonyme Pour L'Etude Et L'Exploitation Des Procédes Georges Claude), Paris, France. Explosive containing liquid air or oxygen and lampblack. No. 1,131,994; Mar. 16; Gaz. vol. 212; p. 820.
- Claude, Georges, assignor to Societe L'Air Liquide (Societe Anonyme pour L'Etude et L'Exploitation des Procédes Georges Claude), Paris, France. Manufacture of hydrogen. No. 1,135,355; Apr. 13; Gaz. vol. 213; p. 404.
- Claude Smith Co. (See Smith, Claude, assignor.)
- Claus, August. (See Lohmiller, Claus, and Stamler.)
- Claus, Emil A., New York, N. Y. Process of and apparatus for making receptacles. No. 1,136,775; Apr. 20; Gaz. vol. 213; p. 1036.
- Claus, Emil A., New York, N. Y. Receptacle-closure. No. 1,155,890; Oct. 5; Gaz. vol. 219; p. 197.
- Claus, Emil A., Hartford, Conn., assignor to Public Service Cup Company, Brooklyn, N. Y. Cup-dispensing device. No. 1,145,350; July 6; Gaz. vol. 216; p. 130.
- Claus, Ida, executrix. (See Claus, Richard.)
- Claus, Richard, deceased, East Orange; I. Claus, executrix, Montague township, Suffolk county, N. J. Treating fullers' earth. No. 1,156,466; Oct. 12; Gaz. vol. 219; p. 423.
- Claude, William L., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-drawing apparatus. No. 1,123,684; Jan. 5; Gaz. vol. 210; p. 166.
- Clausen, Henry P., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Call-distributing telephone system. No. 1,128,660; Feb. 16; Gaz. vol. 211; p. 787.
- Clausen, Henry P., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Call-distributing telephone system. No. 1,131,911; Mar. 16; Gaz. vol. 212; p. 789.
- Clausen, Henry P., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Telephone system. No. 1,131,912; Mar. 16; Gaz. vol. 212; p. 790.
- Clausen, Henry P., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Telephony. No. 1,133,264; Mar. 30; Gaz. vol. 212; p. 1366.
- Clausen, Henry P., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Magneto hand-generator. No. 1,159,359; Nov. 9; Gaz. vol. 220; p. 362.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, New York, N. Y. Call-distributing system. No. 1,136,508; Apr. 20; Gaz. vol. 213; p. 942.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, New York, N. Y. Call-distributing telephone system. No. 1,161,615; Nov. 23; Gaz. vol. 220; p. 1261.
- Clausen, William H., Melrose, Mass. Game apparatus. No. 1,161,846; Nov. 30; Gaz. vol. 220; p. 1387.
- Clausing, George, assignor to The Vulcan Box Toe Process Company, Portsmouth, Ohio. Shoe-last. No. 1,128,586; Feb. 16; Gaz. vol. 211; p. 761.
- Clausing, Louis F. (See Wentworth and Clausing.)
- Clauss, Emil, Cincinnati, Ohio. Bake-oven. No. 1,159,747; Nov. 9; Gaz. vol. 220; p. 501.
- Clauss, Henrie, Fremont, Ohio. Shears. No. 1,159,360; Nov. 9; Gaz. vol. 220; p. 362.
- Claussen, Martin. (See McKay and Claussen.)
- Claussen, Martin, and W. A. McKay, assignors to Wizard Electric Lamp Company, San Francisco, Cal. Reflector for incandescent lamps. No. 1,162,139; Nov. 30; Gaz. vol. 220; p. 1491.
- Claverie, August J., et al. (See Schramm, Frederick C., assignor.)
- Clawson, Charles L. (See Clawson, Leroy, assignor.)
- Clawson, Leonard E., San Francisco, Cal. Cylinder-grinder. No. 1,154,378; Sept. 21; Gaz. vol. 218; p. 781.
- Clawson, Leroy, assignor of one-half to C. L. Clawson, Hall, Mont. Air-pump. No. 1,162,222; Nov. 30; Gaz. vol. 220; p. 1519.
- Clawson, Lewis F., Jr., Merchantville, N. J. Graphophone-cabinet. No. 1,129,790; Feb. 23; Gaz. vol. 211; p. 1215.
- Clawson, Monroe S., Weehawken, N. J. X-ray tube. No. 1,132,442; Mar. 16; Gaz. vol. 212; p. 983.
- Claxton, Ernest, Berkeley, Cal. Safety-stop for elevators. No. 1,163,217; Dec. 7; Gaz. vol. 221; p. 169.
- Clay, Charles C. (See Morris, James G., assignor.)
- Clay, Francis W. H., Pittsburgh, Pa. Sound-indicator. No. 1,145,554; July 6; Gaz. vol. 216; p. 202.
- Clay, Harry C., Columbus, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill. Scarifier. No. 1,155,795; Oct. 5; Gaz. vol. 219; p. 164.
- Clay, James R., Bootle, England. Ship's steering-gear. No. 1,128,661; Feb. 16; Gaz. vol. 211; p. 788.
- Clay, Joseph B., Cedar Falls, Iowa. Gate-latch or the like. No. 1,155,768; Apr. 13; Gaz. vol. 213; p. 639.
- Clay, Joseph B., Cedar Falls, Iowa. Clothes-drier or the like. No. 1,163,639; Dec. 14; Gaz. vol. 221; p. 360.
- Clay, Odin G., Washington, D. C. Window-cleaner. No. 1,156,522; Oct. 12; Gaz. vol. 219; p. 442.
- Clay, Robert, Cheadle, England. Tracing-cloth. No. 1,154,485; Sept. 21; Gaz. vol. 218; p. 816.
- Clay, William H. (See Ward and Clay.)

Alphabetical list of patentees—Continued.

- Clayborne, Eli, Hot Springs, Ark. Snow-plow. No. 1,127,407; Feb. 9; Gaz. vol. 211; p. 299.
- Claymier, Adam H., Lake, Wis. Trench-jack. No. 1,132,763; Mar. 23; Gaz. vol. 212; p. 1149.
- Claypool, Arthur, *et al.* (See Eckenwiler, George M., assignor.)
- Clayton, Frank W. (See Davis and Clayton.)
- Clayton, Fred, Fullerton, La. Self loading and unloading motor-truck. No. 1,142,672; June 8; Gaz. vol. 215; p. 592.
- Clayton, Ira B., and N. Moore, Cooper, Tex. Rural-mail-delivery system. No. 1,133,100; Mar. 23; Gaz. vol. 212; p. 1273.
- Clayton, Irvin G., *et al.* (See Barber, Martin A., assignor.)
- Clayton, Irvin G., *et al.* (See Moler, Abraham L., assignor.)
- Clayton, James, and R. Taylor, Blackpool, England. Valve for steam or water or other liquids or fluids. No. 1,165,073; Dec. 21; Gaz. vol. 221; p. 903.
- Clayton, Joseph B., Baltimore, Md. Bottle attachment. No. 1,128,849; Feb. 16; Gaz. vol. 211; p. 852.
- Clayton & Lambert Manufacturing Co. (See Lambert, Charles R., assignor.)
- Clayton, Thomas J., Port Arthur, Tex. Lubricating device. No. 1,154,095; Sept. 21; Gaz. vol. 218; p. 683.
- Clayton, William R., Barborton, Ohio. Desiccating apparatus. No. 1,130,890; Mar. 9; Gaz. vol. 212; p. 400.
- Cleal, Joseph P., Toronto, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,128,409; Feb. 16; Gaz. vol. 211; p. 700.
- Cleal, Joseph P., Toronto, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,142,079; June 8; Gaz. vol. 215; p. 386.
- Cleal, Joseph P., Toronto, Ontario, Canada, assignor to Michigan Cash Register Company, Detroit, Mich. Cash-register. No. 1,154,096; Sept. 21; Gaz. vol. 218; p. 684.
- Cleal, Joseph P., Toronto, Ontario, Canada, assignor, by mesne assignments, to H. Chalmers, Detroit, Mich. Cash-register. No. 1,161,809; Nov. 23; Gaz. vol. 220; p. 1328.
- Clearwater, Harley M., Troy, N. Y., assignor, by mesne assignments, to Reece Folding Machine Company, Boston, Mass. Blank-folding machine. No. 1,149,185; Aug. 10; Gaz. vol. 217; p. 350.
- Clearwater, Harley M., Troy, J. Temple, Watervliet, and J. H. Ramsey, Rochester, N. Y., assignors, by mesne assignments to Reece Folding Machine Company, Boston, Mass. Blank-folding machine for the manufacture of collars, cuffs, and the like. No. 1,149,184; Aug. 10; Gaz. vol. 217; p. 349.
- Cleary, Francis J., Washington, D. C. Bore-sighting telescope. No. 1,126,391; Jan. 26; Gaz. vol. 210; p. 1244.
- Cleary, Francis J., U. S. Navy. Cross-line mounting for telescopes. No. 1,128,410; Feb. 16; Gaz. vol. 211; p. 700.
- Cleave, Arthur H. W., Ottawa, Ontario, Canada. Life-preserver. No. 1,140,358; May 25; Gaz. vol. 214; p. 1035.
- Cleaver, Fremont J., Carnegie borough, assignor of one-fourth to S. L. H. Morris, one-fourth to H. W. Hodgedon, and one-fourth to E. T. Baron, Pittsburgh, Pa. Means for locking joints. No. 1,163,218; Dec. 7; Gaz. vol. 221; p. 169.
- Cleaver, Fremont J., Carnegie borough, assignor of one-fourth to S. L. H. Morris, one-fourth to H. W. Hodgedon, and one-fourth to E. T. Baron, Pittsburgh, Pa. Means for inflating pneumatic tires. No. 1,163,219; Dec. 7; Gaz. vol. 221; p. 169.
- Cleaver, George E., Reading, Pa. Lock mechanism. No. 1,126,180; Jan. 26; Gaz. vol. 210; p. 1168.
- Cleaver, George E., Reading, Pa. Lock mechanism. No. 1,126,181; Jan. 26; Gaz. vol. 210; p. 1168.
- Cleaver, Howard C., London, England. Internal-combustion engine. No. 1,144,027; June 22; Gaz. vol. 215; p. 1129.
- Cleaver, Montague H., New York, N. Y., assignor to Never-skid Manufacturing Co., Incorporated. Flexible non-skid device for dual-tired wheels. No. 1,160,576; Nov. 16; Gaz. vol. 220; p. 847.
- Cleaver, Montague H., New York, N. Y., assignor to Never-skid Manufacturing Co., Incorporated. Combined non-skid and traction device for dual-tired wheels. No. 1,160,577; Nov. 16; Gaz. vol. 220; p. 847.
- Cleeland, Robert J., Springfield, Mass. Apparatus for use in candy-making. No. 1,145,119; July 6; Gaz. vol. 216; p. 51.
- Cleifton, Claud J., assignor to The Cleifton Company, Owatonna, Minn. Gas-generator. No. 1,133,617; Mar. 30; Gaz. vol. 212; p. 1494.
- Cleifton, Claud J., assignor to The Cleifton Company, Owatonna, Minn. Valve for acetylene-generators. No. 1,133,618; Mar. 30; Gaz. vol. 212; p. 1494.
- Cleifton Company, The. (See Cleifton, Claud J., assignor.)
- Clegg, Albert E., Leeds, England. Glass-bottle-making machine. No. 1,132,071; Mar. 16; Gaz. vol. 212; p. 848.
- Clegg, Albert E., Leeds, England. Glass-bottle-blowing machine. No. 1,133,708; Mar. 30; Gaz. vol. 212; p. 1528.
- Clegg, William F., Greensboro, N. C. Ball and cue rack. No. 1,135,437; Apr. 13; Gaz. vol. 213; p. 523.
- Clegg, William H., Burnley, England. Machine for displaying cards and the like. No. 1,161,616; Nov. 23; Gaz. vol. 220; p. 1261.
- Clemenger, Frank J., *et al.* (See Fuqua and Johnson, assignors.)
- Clemenger, Harry G. (See Strong and Clemenger.)
- Clemens, Albert, Louisville, Ky. Device for delivering material from a container. No. 1,131,117; Mar. 9; Gaz. vol. 212; p. 477.
- Clemens, Charles, East Long Meadow, assignor to National Equipment Company, Springfield, Mass. Feeding device for chocolate-molding machines. No. 1,152,789; Sept. 7; Gaz. vol. 218; p. 149.
- Clemens, Henry, Manitowoc, Wis. Box-opener. No. 1,152,296; Aug. 31; Gaz. vol. 217; p. 1603.
- Clemens, John A., assignor to Davol Rubber Company, Providence, R. I. Invalid-cushion. No. 1,156,523; Oct. 12; Gaz. vol. 219; p. 442.
- Clemens, John G., Buffalo, N. Y. Electric soldering-iron. No. 1,142,306; June 8; Gaz. vol. 215; p. 465.
- Clemens, John G., Buffalo, N. Y. Intermittent movement for motion-picture machines. No. 1,162,037; Nov. 30; Gaz. vol. 220; p. 1454.
- Clemens, Oliver P. (See Bott and Clemens.)
- Clement, Burton H., assignor of one-half to H. L. Trowbridge, Beloit, Wis. Lathe. No. 1,134,374; Apr. 6; Gaz. vol. 213; p. 106.
- Clement, Edward, Mobile, assignor of one-fourth to W. H. Clement and one-fourth to J. W. Jernigan, Troy, Ala. Shock-absorbing wheel. No. 1,139,164; May 11; Gaz. vol. 214; p. 546.
- Clement, Edward E., Washington, D. C. Apparatus for recording and reproducing sounds or signals. No. 1,156,976; Oct. 19; Gaz. vol. 219; p. 631.
- Clement, Edward E., Washington, D. C., assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Telephone-exchange system. No. 1,145,120; July 6; Gaz. vol. 216; p. 52.
- Clement, Frank B., Merrimac, Mass. Regulator for drop-windows for closed automobiles. No. 1,157,677; Oct. 26; Gaz. vol. 219; p. 940.
- Clement, Hans, New York, N. Y., assignor to General Optical Company, Inc. Lens-cutting machine. No. 1,127,860; Feb. 9; Gaz. vol. 211; p. 461.
- Clement, John F., Philadelphia, Pa. Pneumatic tool. No. 1,160,578; Nov. 16; Gaz. vol. 220; p. 847.
- Clement, Paul, Volga, S. D. Sanitary garbage-can. No. 1,143,597; June 15; Gaz. vol. 215; p. 956.
- Clement, W. H., *et al.* (See Clement, Edward, assignor.)
- Clement, William, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Valve for percussive tools. (Reissue.) No. 1,395,9; Aug. 10; Gaz. vol. 217; p. 648.
- Clements, Arthur E., Tampa, Fla. Automatic railway-gate. No. 1,131,330; Mar. 9; Gaz. vol. 212; p. 551.
- Clements, C. S. (See Elkins, Otto B., assignor.)
- Clements, Charles H. (See Richeson, Joseph S., assignor.)
- Clements, Charles J., New York, N. Y. Expansion-bolt. No. 1,161,617; Nov. 23; Gaz. vol. 220; p. 1262.
- Clements Company, The. (See Kennedy, Joseph, assignor.)
- Clements, Ellert A., assignor to Grand Rapids Textile Machinery Company, Grand Rapids, Mich. Pressing-machine. No. 1,153,289; Sept. 14; Gaz. vol. 218; p. 364.
- Clements, George, Chicago, Ill. Vacuum-cleaner. No. 1,129,274; Feb. 23; Gaz. vol. 211; p. 1038.
- Clements, George, assignor to Clements Mfg. Co., Chicago, Ill. Vacuum-cleaner. No. 1,145,555; July 6; Gaz. vol. 216; p. 202.
- Clements Mfg. Co. (See Clements, George, assignor.)
- Clements, Willard B., West Union, Iowa. Flying-machine. No. 1,145,406; July 6; Gaz. vol. 216; p. 151.
- Clemetsen Company, The. (See Dyke, Darrell F., assignor.)
- Clemetsen, Hans, Grand Rapids, Mich., assignor to Valley City Desk Company. Cabinet-drawer. No. 1,145,001; July 6; Gaz. vol. 216; p. 8.
- Clemm, Adolf, Mannheim, Germany. Electrolysis of alkali chlorids or alkali-earth chlorids. No. 1,160,847; Nov. 16; Gaz. vol. 220; p. 944.
- Clemmency, John H., Philadelphia, Pa. Motor-rewinding device for talking-machines. No. 1,152,297; Aug. 31; Gaz. vol. 217; p. 1603.
- Clemmer, James H., Bluecreek, W. Va. Shoe-repairing jack. No. 1,132,072; Mar. 16; Gaz. vol. 212; p. 849.
- Clemmer, James W., A. Rosendahl, and A. N. Halvorson, Fargo, N. D. Door-lock. No. 1,124,862; Jan. 12; Gaz. vol. 210; p. 628.
- Clemmons, De Laski T., Hornell, N. Y., assignor to C. Mattison Machine Works, Beloit, Wis. Abrading or polishing machine. No. 1,145,184; July 6; Gaz. vol. 216; p. 73.
- Clemmons, Harry K., St. Paul, Minn. Road-drag. No. 1,146,476; July 13; Gaz. vol. 216; p. 548.
- Clemmons, James H., assignor of twenty-five one-hundredths to G. Bates and twenty-five one-hundredths to F. B. Cady, Ithaca, N. Y. Telephone attachment. No. 1,142,080; June 8; Gaz. vol. 215; p. 386.

Alphabetical list of patentees—Continued.

- Cleophas, Charles, Beloit, Wis. Combined ruler and postal scale. No. 1,126,398; Jan. 26; Gaz. vol. 210; p. 1244.
- Cler, Charles B., New York, N. Y. Non-refillable bottle. No. 1,148,503; Aug. 3; Gaz. vol. 217; p. 7.
- Clerk, Dugald, London, assignor to The National Gas Engine Company Limited, Ashton-under-Lyne, England. Internal-combustion engine working with coke-oven and other gases. No. 1,158,179; Oct. 26; Gaz. vol. 219; p. 1116.
- Clerkin, Dora O., Lorain, Ohio. Convertible door. No. 1,125,061; Jan. 19; Gaz. vol. 210; p. 733.
- Clermont, John B., assignor to S and S Window Corporation, New York, N. Y. Pulley-case. No. 1,132,651; Mar. 23; Gaz. vol. 212; p. 1108.
- Clermont, John B., assignor to S and S Window Corporation, New York, N. Y. Means for suspending counterbalance-weights. No. 1,150,173; Aug. 17; Gaz. vol. 217; p. 769.
- Clermont, John B., assignor to S and S Window Corporation, New York, N. Y. Attachment for windows and the like. No. 1,150,174; Aug. 17; Gaz. vol. 217; p. 769.
- Clermont, John B., assignor to S and S Window Corporation, New York, N. Y. Operating means for sashes having sliding and pivotal movements. No. 1,150,175; Aug. 17; Gaz. vol. 217; p. 770.
- Clermont, John B., assignor to S and S Window Corporation, New York, N. Y. Window. No. 1,150,929; Aug. 24; Gaz. vol. 217; p. 1089.
- Cleve, Henry C., Washington, D. C. Hand-wheel for automobiles. No. 1,142,307; June 8; Gaz. vol. 215; p. 465.
- Cleveland Auto Radiator Company, The. (See Schoellkopf, William, assignor.)
- Cleveland Car Specialty Company. (See Bidle and Costello, assignors.)
- Cleveland, Clement, New York, N. Y. Hat-pin. No. 1,130,796; Mar. 9; Gaz. vol. 212; p. 367.
- Cleveland Dental Manufacturing Company, The. (See Dalbey, William C., assignor.)
- Cleveland Dental Manufacturing Company, The. (See Riley, Thomas L., assignor.)
- Cleveland, Edgar W. (See Fox and Cleveland.)
- Cleveland, Edgar W., assignor to National Automatic Tool Company, Richmond, Ind. Multiple-spindle drill-head. No. 1,146,768; July 13; Gaz. vol. 216; p. 647.
- Cleveland, Edgar W., assignor to National Automatic Tool Company, Richmond, Ind. Self-aligning tap-holder. No. 1,155,796; Oct. 5; Gaz. vol. 219; p. 165.
- Cleveland Engineering Company, The. (See McGeorge, John, assignor.)
- Cleveland, Erastus L., West Chicago, Ill. Drill-jar. No. 1,144,814; June 29; Gaz. vol. 215; p. 1430.
- Cleveland Folding Machine Company, The. (See Johnson, Oliver W., assignor.)
- Cleveland Foundry Company, The. (See Chadwick, Lee S., assignor.)
- Cleveland Foundry Company, The. (See Ross, Frank, assignor.)
- Cleveland, Francis D., Winchester, assignor to William Underwood Company, Boston, Mass. Fish-cutting machine, endless-chain conveyor. No. 1,125,654; Jan. 19; Gaz. vol. 210; p. 944.
- Cleveland, Francis D., Winchester, assignor to William Underwood Company, Boston, Mass. Machine for positioning fish, rotary carrier. No. 1,125,655; Jan. 19; Gaz. vol. 210; p. 944.
- Cleveland, Francis D., Winchester, assignor to William Underwood Company, Boston, Mass. Machine for positioning and cutting fish. No. 1,125,656; Jan. 19; Gaz. vol. 210; p. 945.
- Cleveland, Francis D., Winchester, assignor to William Underwood Company, Boston, Mass. Rotary carrier. No. 1,125,657; Jan. 19; Gaz. vol. 210; p. 945.
- Cleveland, Francis D., Winchester, assignor to William Underwood Company, Boston, Mass. Machine for cutting off heads and tails of fish. No. 1,129,168; Feb. 23; Gaz. vol. 211; p. 1001.
- Cleveland, Grover E., Detroit, assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Seat. No. 1,128,411; Feb. 16; Gaz. vol. 211; p. 700.
- Cleveland Macaroni Company, The. (See Gammel, Karl, assignor.)
- Cleveland Machine & Mfg. Company, The. (See Welch, William H., assignor.)
- Cleveland Metal Products Company, The. (See Harrison, George L., assignor.)
- Cleveland Pneumatic Tool Company. (See Greve, Louis W., assignor.)
- Cleveland Rock Drill Company, The. (See Greve, Louis W., assignor.)
- Cleveland Trolley Wheel Company, The. (See McAdams, Sylvester L., assignor.)
- Cleveland Trust Company, The, trustee. (See Barstow, Edwin O., assignor.)
- Cleveland Trust Company, The, trustee. (See Griswold and Barstow, assignors.)
- Cleveland, William B., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for electric welding. No. 1,147,209; July 20; Gaz. vol. 216; p. 823.
- Cleveland, William B., Burton, assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Electric welding and apparatus for use therein. No. 1,160,261; Nov. 16; Gaz. vol. 220; p. 736.
- Cleveland Wire Spring Company. (See Erickson and Nystrom, assignors.)
- Cleveland Wire Spring Company, The. (See Farrow and Barker, assignors.)
- Clevenger, Frank A., Ekalka, Mont. Irrigating-siphon. No. 1,131,823; Mar. 16; Gaz. vol. 212; p. 759.
- Clevenger, Galen H., Palo Alto, Cal., assignor to Merrill Metallurgical Company. Precipitant for recovering metals from solutions. No. 1,123,685; Jan. 5; Gaz. vol. 210; p. 166.
- Clevenger, Harley J., Dorrance, Kans. Adjustable stop for car-doors. No. 1,162,978; Dec. 7; Gaz. vol. 221; p. 85.
- Clewe, William F. (See Von Hacht, Taylor, and Clewe.)
- Clewley, Frank, assignor to S. Friedberger, Philadelphia, Pa. Knitted fabric. No. 1,139,342; May 11; Gaz. vol. 214; p. 605.
- Clewley, Frank, assignor to S. Friedberger, Philadelphia, Pa. Knitted fabric. No. 1,139,343; May 11; Gaz. vol. 214; p. 606.
- Clewley, Frank, assignor to S. Friedberger, Philadelphia, Pa. Twisted net fabric. No. 1,139,344; May 11; Gaz. vol. 214; p. 606.
- Clickstine, James W., Camden, N. J. Fender. No. 1,137,577; Apr. 27; Gaz. vol. 213; p. 1360.
- Cliffe, Frank H. (See Craven, Young, and Cliffe.)
- Cliffe, William S. (See Craven, Young, and Cliffe.)
- Clifford, Daniel E., Ware, Mass. Carcass-splitting machine. No. 1,165,389; Dec. 28; Gaz. vol. 221; p. 1052.
- Clifford, Herbert, Jersey City, N. J. Resilient wheel. No. 1,139,639; May 18; Gaz. vol. 214; p. 747.
- Clifford, William P., Ottumwa, and J. C. Cook, Russell, Iowa. Ore separating and concentrating machine. No. 1,128,850; Feb. 16; Gaz. vol. 211; p. 853.
- Clifton, Emmett H., assignor of one-half to J. M. Hester, Boston, Mass. Treating writing-paper. No. 1,140,253; May 18; Gaz. vol. 214; p. 964.
- Clifton Manufacturing Company. (See Raymond, Nelson H., assignor.)
- Climax Manufacturing Company. (See Wynn, John, Jr., assignor.)
- Climax Refuse Container Corporation. (See Hoofnagle, William T., assignor.)
- Clinch, Charles S., assignor to Shoe City Novelty Company, Lynn, Mass. Shoe-ornament fastener. No. 1,145,121; July 6; Gaz. vol. 216; p. 52.
- Clinchard, Edward W., Sedro Woolley, Wash. Wash-board. No. 1,139,847; May 18; Gaz. vol. 214; p. 821.
- Cline, Artie L., Springdale, Ark. Saw. No. 1,137,838; May 4; Gaz. vol. 214; p. 41.
- Cline, Cullen A., et al. (See Maloney, Sheridan G., assignor.)
- Cline, Curtis. (See Heisz, George A., assignor.)
- Cline, Edward S., and E. C. Meier, Phoenixville, Pa. Furnace-door lining. No. 1,159,898; Nov. 9; Gaz. vol. 220; p. 556.
- Cline, Fred E., and W. L. Baskerville, San Diego, Cal. Alarm device for motor-vehicles. No. 1,131,824; Mar. 16; Gaz. vol. 212; p. 760.
- Cline, George W., Sandpoint, Idaho. Grass-trimming machine. No. 1,128,226; Feb. 9; Gaz. vol. 211; p. 587.
- Cline, James F. (See Boling and Cline.)
- Cline, Max, and C. F. Rhodes, Glens Falls, assignors to International Paper Company, New York, N. Y. Removing ink from paper-stock. No. 1,138,085; May 4; Gaz. vol. 214; p. 128.
- Cline, Nelson T., McKees Rocks, Pa. Nut-locking device for air-compressors. No. 1,133,537; Mar. 30; Gaz. vol. 212; p. 1465.
- Cline, William J., et al. (See Maloney, Sheridan G., assignor.)
- Clingenpeel, William J. (See Lacey and Clingenpeel.)
- Clinger, William T., Oil City, Pa. Display-box. No. 1,150,176; Aug. 17; Gaz. vol. 217; p. 770.
- Clinton, Henrietta C., San Francisco, Cal. Type-writer attachment. No. 1,135,769; Apr. 13; Gaz. vol. 213; p. 639.
- Clinton, James S., Chicago, Ill. Cup-cake machine. No. 1,162,751; Dec. 7; Gaz. vol. 221; p. 7.
- Clinton, Michael, Philadelphia, Pa., assignor of one-fourth to Penn Printing House, one-fourth to H. Miller, Delaware county, and one-fourth to W. E. Cunningham, Philadelphia, Pa. Paper-beater for printing-presses. No. 1,131,642; Mar. 9; Gaz. vol. 212; p. 660.
- Clipper Belt Lacer Company. (See Diamond, James K., assignor.)
- Clippinger, Levi, Houston Heights, Tex. Poultry-coop. No. 1,151,865; Aug. 31; Gaz. vol. 217; p. 1456.
- Clippinger, Lonzo L., Everett, Wash. Cleaning device for boots and shoes. No. 1,149,729; Aug. 10; Gaz. vol. 217; p. 547.
- Clisdell, Robert E., Schenectady, N. Y. Water-heater. No. 1,142,495; June 8; Gaz. vol. 215; p. 533.
- Clogher, William E., assignor to Mankato Mills Company, Mankato, Minn. Method and apparatus for producing core-yarns. No. 1,124,863; Jan. 12; Gaz. vol. 210; p. 629.

Alphabetical list of patentees—Continued.

- Clokey, Allison A., Jersey City, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Call-box. No. 1,164,069; Dec. 14; Gaz. vol. 221; p. 513.
- Cloninger, John W., Pearl, Ill. Tire-armor. No. 1,148,576; Aug. 3; Gaz. vol. 217; p. 34.
- Cloos, Jacob, deceased, Milwaukee, Wis.; A. R. Barry, administrator. Valve. No. 1,156,977; Oct. 19; Gaz. vol. 219; p. 631.
- Clope, Irving S., Macon, assignor to Empire Chemical Company, Atlanta, Ga. Treating resinous woods to remove the soluble constituents therefrom. No. 1,144,171; June 22; Gaz. vol. 215; p. 1181.
- Close, Fred A. (See Craft, Clarence H., assignor.)
- Closson, William B. P., Magnolia, Mass. Shipping-case for pictures. No. 1,149,498; Aug. 10; Gaz. vol. 217; p. 462.
- Closz, Jacob, St. Ansgar, Iowa. Pneumatic tube-testing and tire-carrying device. No. 1,148,287; July 27; Gaz. vol. 216; p. 1228.
- Cloud, John W., London, England, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electro-pneumatic brake. No. 1,134,440; Apr. 6; Gaz. vol. 213; p. 130.
- Clonette, Nelson, Penacook, N. H., assignor to W. Firth, Chestnut Hill, Mass. Driving device for pneumatic dust-removers. No. 1,154,379; Sept. 21; Gaz. vol. 218; p. 782.
- Clough, Augustus M. (See Collins and Clough.)
- Clough, Frank, assignor to Fred Harvey, Inc., Kansas City, Mo. Display-container. No. 1,160,262; Nov. 16; Gaz. vol. 220; p. 736.
- Clover Leaf Manufacturing Company. (See Bennett, Walter E., assignor.)
- Clover, Charles H., Philadelphia, Pa. Boat-propelling mechanism. No. 1,159,899; Nov. 9; Gaz. vol. 220; p. 556.
- Cloyd, Oliver H., Peoria, Ill. Hog-greaser. No. 1,142,798; June 8; Gaz. vol. 215; p. 676.
- Cluett, Peabody & Co. (See Kennedy and Connolly, assignors.)
- Cluett, Sanford L., and C. H. Blackert, assignors to Walter A. Wood Mowing and Reaping Machine Co., Hoosick Falls, N. Y. Harvester. No. 1,158,445; Nov. 2; Gaz. vol. 220; p. 12.
- Cluley, John P., Chicago, Ill. Method and means for stripping fibrous plants. No. 1,134,514; Apr. 6; Gaz. vol. 213; p. 157.
- Clune, John H., Springfield, Mass. Pneumatic tire. No. 1,124,705; Jan. 12; Gaz. vol. 210; p. 572.
- Clune, John H., Springfield, Mass. Arch-support. No. 1,152,078; Aug. 31; Gaz. vol. 217; p. 1529.
- Clute, M. Matilda, executrix. (See Clute, Nicholas J.)
- Clute, Nicholas J., deceased, Schenectady, N. Y.; M. M. Clute, executrix. Self-cleaning rake. No. 1,158,640; Nov. 2; Gaz. vol. 220; p. 82.
- Clutter, Joseph F. (See Greenberg and Clutter.)
- Clyde Iron Works. (See McGiffert, John R., assignor.)
- Clymer, Jesse Y., and M. L. Heller, Richlandtown, Pa. Nut-lock. No. 1,142,308; June 8; Gaz. vol. 215; p. 465.
- Clymer, William R., assignor to National Carbon Company, Cleveland, Ohio. Calcining-furnace. No. 1,147,706; July 27; Gaz. vol. 216; p. 1022.
- Clyne, Robert G., Alton, Ill. Treating paper tubes. No. 1,135,356; Apr. 13; Gaz. vol. 213; p. 494.
- Clyne, Robert G., Alton, Ill. Mushroom-bullet. No. 1,135,357; Apr. 13; Gaz. vol. 213; p. 494.
- Clyne, Robert G., Alton, Ill. Shot-receptacle. No. 1,160,974; Nov. 16; Gaz. vol. 220; p. 989.
- Coady, Edward, Okmulgee, Okla. Trunk-bed. No. 1,159,474; Nov. 9; Gaz. vol. 220; p. 404.
- Coakley, Joseph D., New York, N. Y. Grating. No. 1,160,044; Nov. 9; Gaz. vol. 220; p. 606.
- Coalson, Archie D., Birmingham, Ala. Railway-switch. No. 1,148,756; Aug. 3; Gaz. vol. 217; p. 99.
- Coan, John, Baldwin, Colo. Mine-car wheel. No. 1,164,470; Dec. 14; Gaz. vol. 221; p. 653.
- Coates, Frederick, Rochester, N. Y. Labeling-machine. No. 1,158,787; Nov. 2; Gaz. vol. 220; p. 133.
- Coates, Frederick, assignor to Standard Automatic Machine Company, Rochester, N. Y. Labeling-machine. No. 1,157,640; Oct. 19; Gaz. vol. 219; p. 869.
- Coates, George H., Worcester, Mass. Mechanical hammer. No. 1,124,393; Jan. 12; Gaz. vol. 210; p. 459.
- Coates, Joseph H. (See Potts, Benjamin C., assignor.)
- Coates, Walter H., Nathalie, Va. Railway-track cleaner. No. 1,162,338; Nov. 30; Gaz. vol. 220; p. 1559.
- Coats, Allan, Newark, N. J. Expanding reamer. No. 1,129,169; Feb. 23; Gaz. vol. 211; p. 1001.
- Coats, Allan, Newark, N. J. Valve. No. 1,150,576; Aug. 17; Gaz. vol. 217; p. 910.
- Coats, Henry L., Moscow, Idaho. Gate. No. 1,143,750; June 22; Gaz. vol. 215; p. 1032.
- Cobb, Benjamin J., Rome, Ga. Resilient wheel. No. 1,146,237; July 13; Gaz. vol. 216; p. 462.
- Cobb, Edward S., Whittier, Cal. Settling-basin. No. 1,125,658; Jan. 19; Gaz. vol. 210; p. 946.
- Cobb, Elmer M., assignor to Southworth Machine Company, Portland, Me. Hollow rivet. No. 1,130,962; Mar. 9; Gaz. vol. 212; p. 424.
- Cobb, Geo. W. (See Wegner, Fred, assignor.)
- Cobb, George W. (See Davies, Kerrison M., assignor.)
- Cobb, Henry Z., Winchester, Mass. Braiding-machine. No. 1,133,364; Mar. 30; Gaz. vol. 212; p. 1403.
- Cobb, Henry Z., Winchester, assignor to Revere Rubber Company, Chelsea, Mass., and Providence, R. I. Billiard-cushion. No. 1,138,933; May 11; Gaz. vol. 214; p. 463.
- Cobb, Luther, and F. Pitman, Bedford, Ind. Dust-cap. No. 1,151,085; Aug. 24; Gaz. vol. 217; p. 1141.
- Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Breather for internal-combustion engines. No. 1,124,297; Jan. 12; Gaz. vol. 210; p. 425.
- Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Cycle-frame. No. 1,132,829; Mar. 23; Gaz. vol. 212; p. 1175.
- Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Engine valve mechanism. No. 1,136,408; Apr. 20; Gaz. vol. 213; p. 907.
- Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Firearm. No. 1,142,934; June 15; Gaz. vol. 215; p. 724.
- Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Friction-clutch. No. 1,146,403; July 13; Gaz. vol. 216; p. 519.
- Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Valve-controlling mechanism for internal-combustion engines. No. 1,155,044; Sept. 28; Gaz. vol. 218; p. 1034.
- Cobb, Manuel E., assignor of one-half to R. T. Lewis, Marlon, Ohio. Lock for grave-vaults. No. 1,154,235; Sept. 21; Gaz. vol. 218; p. 730.
- Cobb, Nathan A., Falls Church, Va. Microscope-cover-glass-centering device. No. 1,139,165; May 11; Gaz. vol. 214; p. 546.
- Cobban, William A., Culbertson, Mont. Calf-weaner. No. 1,142,026; June 8; Gaz. vol. 215; p. 368.
- Cobey, Frank, East Berlin, Conn. Drill-chuck. No. 1,160,138; Nov. 16; Gaz. vol. 220; p. 693.
- Coble, Alfred, Jr., Westerville, Ohio. Rail-fastening device. No. 1,142,309; June 8; Gaz. vol. 215; p. 466.
- Coblentz, William W., Poland, Ohio. Electric lighting. No. 1,135,663; Apr. 13; Gaz. vol. 213; p. 604.
- Coburn, Albert J., New Orleans, La. Flushing apparatus. No. 1,165,228; Dec. 21; Gaz. vol. 221; p. 959.
- Coburn, Albert J., and F. Hardie, New Orleans, La. Flushing apparatus. No. 1,137,578; Apr. 27; Gaz. vol. 213; p. 1360.
- Coburn, James W., Detroit, Mich. Vehicle-wheel. No. 1,128,760; Feb. 16; Gaz. vol. 211; p. 820.
- Coburn, William, and C. W. Davis, assignors to Universal Sterilizing Company, Seattle, Wash. Water-distributing mechanism. No. 1,139,848; May 18; Gaz. vol. 214; p. 822.
- Cocanari, Silvio, Vieux-Dieu, near Antwerp, Belgium. Sensitized photographic film and means for carrying and exposing same. No. 1,140,877; May 25; Gaz. vol. 214; p. 1217.
- Cochell, Stephen A., Detroit, Mich. Muffler. No. 1,131,825; Mar. 16; Gaz. vol. 212; p. 760.
- Cochran, Clyde E. (See Ahlm and Cochran.)
- Cochran, Edward H. (See Hellyar, Cochran, and Waggoner.)
- Cochran, Harry A., Houston, Tex., assignor to American Automatic Water Heater Co. Gas-valve. No. 1,156,347; Oct. 12; Gaz. vol. 219; p. 379.
- Cochran, Stephen J., assignor to Hamp Williams Hardware Company, Hot Springs, Ark. Canning apparatus. No. 1,133,430; Mar. 30; Gaz. vol. 212; p. 1426.
- Cochran, William C., Nineveh, Ind. Mail-bag deliverer. No. 1,138,455; May 4; Gaz. vol. 214; p. 259.
- Cochrane, Ira L. (See Repp and Cochrane.)
- Cochrane, James A., Rochester, N. Y. Sash-retaining device for windows. No. 1,129,550; Feb. 23; Gaz. vol. 211; p. 1135.
- Cochrane, Robert L., Chicago, Ill. Tie-spacing device. No. 1,163,627; Dec. 7; Gaz. vol. 221; p. 313.
- Cochrane, Victor H. (See Hedrick and Cochrane.)
- Cockburn, David, and D. MacNicol, Cardonald, near Glasgow, Scotland. Safety-valve. No. 1,164,090; Dec. 21; Gaz. vol. 221; p. 875.
- Cockburn, Henry H., Binscarth, Manitoba, Canada. Fire-extinguishing apparatus. No. 1,128,412; Feb. 16; Gaz. vol. 211; p. 701.
- Cockburn, John W., Dundas, Ontario, Canada. Power-transmission device. No. 1,153,031; Sept. 7; Gaz. vol. 218; p. 237.
- Cockburn, William R., Hamilton, New Zealand. Milking machinery. No. 1,155,131; Sept. 28; Gaz. vol. 218; p. 1068.
- Cockell, Harvey, Columbus, Ohio. Railway-tie. No. 1,147,076; July 20; Gaz. vol. 216; p. 775.
- Cockfield, Joseph H., Cedar Rapids, Iowa. Stone-crusher. No. 1,133,101; Mar. 23; Gaz. vol. 212; p. 1273.
- Cocking, Allan T., assignor to Kynoch Limited, Birmingham, England. Manufacture of explosives. No. 1,164,170; Dec. 14; Gaz. vol. 221; p. 547.
- Cocking, Ralph R., La Salle, Ill. Life-boat-launching apparatus. No. 1,130,569; Mar. 2; Gaz. vol. 212; p. 256.
- Cockran, John E., San Diego, Cal. Air-cooling device. No. 1,164,471; Dec. 14; Gaz. vol. 221; p. 653.

Alphabetical list of patentees—Continued.

- Cockrell, Walter L., Cameron, W. Va. Cable-hanger. No. 1,141,316; June 1; Gaz. vol. 215; p. 82.
- Cockrum, Earl, Sheller, Ill. Land-roller. No. 1,140,575; May 25; Gaz. vol. 214; p. 1112.
- Cockrum, William A., Knoxville, Tenn. Silo-chute. No. 1,163,508; Dec. 7; Gaz. vol. 221; p. 270.
- Cocks, Frank L. (See Grimm and Cocks.)
- Cocks, George H., Ashland, Ky. Wire-fence-making machine. No. 1,130,570; Mar. 2; Gaz. vol. 212; p. 256.
- Coda, Christopher F., assignor to The Art Stove Company, Detroit, Mich. Forming expansion joints and castings. No. 1,125,062; Jan. 19; Gaz. vol. 210; p. 733.
- Coda, Christopher F., assignor to The Art Stove Company, Detroit, Mich. Combined gas and coal range. No. 1,164,070; Dec. 14; Gaz. vol. 221; p. 514.
- Coddington, Edwin D., North Milwaukee, Wis. Ground for cement-coated walls. No. 1,164,334; Dec. 14; Gaz. vol. 221; p. 605.
- Coddington, Harry W. (See Kadel, Pilcher, and Coddington.)
- Cody, Charles W. (See Robinett and Cody.)
- Coe, Albert. (See Coe, Frank, assignor.)
- Coe, Benjamin S., assignor to The Coe-Stapley Manufacturing Company, Bridgeport, Conn. Match-box. No. 1,158,118; Oct. 26; Gaz. vol. 219; p. 1095.
- Coe, Frank, Walled Lake, assignor of one-half to A. Coe, Farmington, Mich. Sliding-door stop. No. 1,145,974; July 13; Gaz. vol. 216; p. 369.
- Coe, Harry P., New York, N. Y. Machine for drying paper-board, sized paper, &c. No. 1,125,659; Jan. 19; Gaz. vol. 210; p. 946.
- Coe, Harry P., Painesville, Ohio, assignor of one-half to A. S. Williams, Long Island City, N. Y. Drier. No. 1,138,086; May 4; Gaz. vol. 214; p. 129.
- Coe, James H., et al. (See McSee, James H., assignor.)
- Coe, James H., Waterbury, Conn. Monorail. No. 1,132,913; Mar. 23; Gaz. vol. 212; p. 1204.
- Coe-Stapley Manufacturing Company, The. (See Baldwin and Stapley, assignors.)
- Coe-Stapley Manufacturing Company, The. (See Coe, Benjamin S., assignor.)
- Coe, Walter S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Type or matrix. No. 1,151,567; Aug. 31; Gaz. vol. 217; p. 1352.
- Coe, Wash, Kansas City, Mo. Chimney-lining apparatus. No. 1,147,374; July 20; Gaz. vol. 216; p. 879.
- Coen, Garnet W., San Francisco, Cal. Oil-fired-furnace extension. No. 1,129,791; Feb. 23; Gaz. vol. 211; p. 1216.
- Coes, Harold V., assignor to The Sentinel Mfg. Co., New Haven, Conn. Time-controlled oil-burning heating apparatus. No. 1,150,501; Aug. 17; Gaz. vol. 217; p. 883.
- Coes, Harold V., assignor to The Sentinel Manufacturing Co., New Haven, Conn. Self-contained time-controlled operating mechanism. No. 1,161,618; Nov. 23; Gaz. vol. 220; p. 1262.
- Coes, Zorester B., Philadelphia, Pa. Micrometer. No. 1,132,704; Mar. 23; Gaz. vol. 212; p. 1128.
- Coe, Stewart C., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Skelp-charging apparatus. No. 1,130,708; Mar. 9; Gaz. vol. 212; p. 337.
- Coffey, Barton H., Elizabeth, N. J., assignor, by mesne assignments, to The Cooling Tower Co., Inc., New York, N. Y. Cooling-tower. No. 1,158,107; Oct. 26; Gaz. vol. 219; p. 1091.
- Coffey, Joseph H. and J. H., Jr., assignors of one-half to Gutta Percha and Rubber Limited, Toronto, Ontario, Canada. Tire-mold core. No. 1,154,843; Sept. 28; Gaz. vol. 218; p. 967.
- Coffey, Joseph H. and J. H., Jr., assignors of one-half to Gutta Percha and Rubber, Limited, Toronto, Ontario, Canada. Molding and vulcanizing tires. No. 1,166,326; Dec. 28; Gaz. vol. 221; p. 1384.
- Coffey, Joseph H., Jr., and J. H., Jr., assignors of one-half to Gutta Percha and Rubber, Limited, Toronto, Ontario, Canada. Demountable tire. No. 1,162,979; Dec. 7; Gaz. vol. 221; p. 85.
- Coffield, Peter T., Dayton, and J. Bremer, Cincinnati, Ohio, assignors, by mesne assignments, to Maytag Company, Newton, Iowa. Driving mechanism. No. 1,131,466; Mar. 9; Gaz. vol. 212; p. 598.
- Coffin, Edward W., East Orange, N. J. Making screw-nuts, screw-caps, and similar articles. No. 1,127,186; Feb. 2; Gaz. vol. 211; p. 184.
- Coffin, Howard E., Detroit, Mich. Rotary valve for explosion-engines. No. 1,126,706; Feb. 2; Gaz. vol. 211; p. 13.
- Coffin, Howard E., Detroit, Mich. Filler for tanks. No. 1,147,785; July 27; Gaz. vol. 216; p. 1049.
- Coffin, Howard E., Detroit, Mich. Explosion-engine. No. 1,153,675; Sept. 14; Gaz. vol. 218; p. 502.
- Coffin, Howard E., Detroit, Mich. Explosion-engine. No. 1,153,676; Sept. 14; Gaz. vol. 218; p. 502.
- Coffin, Howard E., Detroit, Mich. Combined luggage and tire carrier for vehicles. No. 1,161,028; Nov. 23; Gaz. vol. 220; p. 1053.
- Coffin, Howard E., assignor, by mesne assignments, to The Detroit Motor & Machine Company, Detroit, Mich. Engine valve mechanism. No. 1,136,104; Apr. 20; Gaz. vol. 213; p. 797.
- Coffin, J. S. (See Martin, Frederick W., assignor.)
- Coffin, James G., trustee. (See Cornwall, George R., assignor.)
- Coffin, James G., trustee. (See Driscoll, Frank E., assignor.)
- Coffin, James G., trustee. (See Moore, Charles T., assignor.)
- Coffin, James G., trustee. (See Morgan, John D., assignor.)
- Coffin, James G., trustee. (See Saltzman, Auguste L., assignor.)
- Coffin, Phillip M., Detroit, Mich. Lock. No. 1,158,446; Nov. 2; Gaz. vol. 220; p. 12.
- Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-shank and yoke connection. (Reissue.) No. 13,889; Mar. 9; Gaz. vol. 212; p. 663.
- Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Wearing-shoe for coupling-yokes. No. 1,133,538; Mar. 30; Gaz. vol. 212; p. 1465.
- Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling shank and yoke connection. No. 1,157,084; Oct. 19; Gaz. vol. 219; p. 669.
- Coffin, Zell L. (See Hey and Coffin.)
- Coffman, Joseph P., Reno, assignor to National Transit Company, Oil City, Pa. Pumping-rig. No. 1,146,404; July 13; Gaz. vol. 216; p. 520.
- Coffman Manufacturing Company. (See Coffman, Samuel M., assignor.)
- Coffman, Samuel M., Kansas City, Mo. Chuck. No. 1,141,613; June 1; Gaz. vol. 215; p. 187.
- Coffman, Samuel M., Kansas City, Mo. Molding-machine. No. 1,161,188; Nov. 23; Gaz. vol. 220; p. 1111.
- Coffman, Samuel M., assignor to Coffman Manufacturing Company, Kansas City, Mo. Envelop-delivery apparatus. No. 1,147,375; July 20; Gaz. vol. 216; p. 880.
- Coffman, Samuel M., Kansas City, Mo., and G. W. Moore, Parsons, Kans. Power attachment for hair-clippers. No. 1,165,945; Dec. 28; Gaz. vol. 221; p. 1246.
- Coggeshall, John W., et al. (See Greenwood, Edgar and J. J., assignors.) (Reissue.)
- Cogglin, Frank F. (See Gold and Cogglin.)
- Cogswell, Arthur B., Oswego, N. Y., assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil and gas separator. No. 1,150,342; Aug. 17; Gaz. vol. 217; p. 828.
- Cogswell, Wilton W., Kirwin, Kans. Lamp. No. 1,123,488; Jan. 5; Gaz. vol. 210; p. 99.
- Cohen, Alfred H., Fruitvale, Cal. Magnetic lift for electrodes in electric oscillators. No. 1,142,496; June 8; Gaz. vol. 215; p. 534.
- Cohen, Annie H., New York, N. Y. Retaining device for shoe-laces. No. 1,126,399; Jan. 26; Gaz. vol. 210; p. 1245.
- Cohen, Barnett, assignor of one-half to P. A. Drucklieb, New York, N. Y. Box for cigarettes and the like. No. 1,164,782; Dec. 21; Gaz. vol. 221; p. 801.
- Cohen, Barney. (See Poretz and Cohen.)
- Cohen, David, assignor of one-half to E. E. Mersereau, New York, N. Y. Sectional vignetter. No. 1,149,030; Aug. 3; Gaz. vol. 217; p. 193.
- Cohen, Hiram C., Syracuse, N. Y. Resilient tire. No. 1,133,102; Mar. 23; Gaz. vol. 212; p. 1274.
- Cohen, Hyman, Brooklyn, N. Y. Trousers-waistband. No. 1,166,113; Dec. 28; Gaz. vol. 221; p. 1305.
- Cohen, Isaac, Gloucester, Mass. Garment-fitter. No. 1,157,085; Oct. 19; Gaz. vol. 219; p. 670.
- Cohen, Joseph. (See Schimmel, David E., assignor.)
- Cohen, Leon, St. Louis, Mo. Adjustable hat conformer and retainer. No. 1,144,462; June 29; Gaz. vol. 215; p. 1309.
- Cohen, Louis, Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., trustees. Frequency-meter for measuring electrical current. No. 1,165,850; Dec. 28; Gaz. vol. 221; p. 1212.
- Cohen, Max M. (See Vollrath and Cohen.)
- Cohen, Samuel. (See Shuler and Cohen.)
- Cohic, Henry, Cleveland, Ohio. Umbrella. No. 1,140,801; May 25; Gaz. vol. 214; p. 1189.
- Cohn, Albert, assignor to E. Katzinger Company, Chicago, Ill. Baking-pan. No. 1,149,730; Aug. 10; Gaz. vol. 217; p. 547.
- Cohn, Edward, et al. (See Beuther, William F., assignor.)
- Cohn, George, Louisville, Ky. Dresser-valise. No. 1,137,579; Apr. 27; Gaz. vol. 213; p. 1360.
- Cohn, Jack, New York, N. Y. Hair drying and curling comb. No. 1,131,331; Mar. 9; Gaz. vol. 212; p. 551.
- Cohn, Louis, New York, N. Y. Watch-protector. No. 1,150,930; Aug. 24; Gaz. vol. 217; p. 1089.
- Cohn, Max M., Piedmont, Cal. Means for dispensing paper towels. No. 1,126,400; Jan. 26; Gaz. vol. 210; p. 1245.
- Cohn, Max M., Piedmont, Cal. Means for folding and dispensing paper towels. No. 1,128,227; Feb. 9; Gaz. vol. 211; p. 588.
- Cohn, Max M., Piedmont, Cal. Means for folding and dispensing paper towels. No. 1,129,275; Feb. 23; Gaz. vol. 211; p. 1038.
- Cohn, Max M., Piedmont, Cal. Loose-leaf dispenser. No. 1,129,276; Feb. 23; Gaz. vol. 211; p. 1038.

Alphabetical list of patentees—Continued.

- Cohn, Max M., Piedmont, Cal. Loose-leaf-dispensing device. No. 1,130,571; Mar. 2; Gaz. vol. 212; p. 257.
- Cohn, Max M., Piedmont, Cal. Loose-leaf-paper dispenser and cartouche-holder. No. 1,148,757; Aug. 3; Gaz. vol. 217; p. 99.
- Cohn, Max M., Piedmont, Cal. Slotted carton. No. 1,148,758; Aug. 3; Gaz. vol. 217; p. 99.
- Cohn, Samuel, assignor to Mantle Machinery & Patents Company, New York, N. Y. Machine for sewing mantles. No. 1,145,556; July 6; Gaz. vol. 216; p. 203.
- Cohn, Samuel, assignor to Mantle Machinery & Patents Company, New York, N. Y. Manufacture of inverted mantles. No. 1,151,342; Aug. 24; Gaz. vol. 217; p. 1228.
- Cohn, Samuel, assignor to Mantle Machinery & Patents Company, New York, N. Y. Machine for cutting mantle-blanks. No. 1,158,180; Oct. 26; Gaz. vol. 219; p. 1117.
- Cohn, Samuel, assignor to Mantle Machinery & Patents Company, New York, N. Y. Mantle-darning machine. No. 1,161,847; Nov. 30; Gaz. vol. 220; p. 1387.
- Cohn, Samuel, assignor to Mantle Machinery & Patents Company, New York, N. Y. Mantle-shirring machine. No. 1,164,783; Dec. 21; Gaz. vol. 221; p. 802.
- Cohn, Samuel R., Chicago, Ill. Trousers-press. No. 1,164,472; Dec. 14; Gaz. vol. 221; p. 653.
- Coho, Herbert B., Mount Vernon, N. Y. Metallic compound. No. 1,138,845; May 11; Gaz. vol. 214; p. 435.
- Cohoe, Wallace P., assignor of one-third to The William Davies Company, Limited, and one-third to E. C. Fox, Toronto, Ontario, Canada. Casing for sausages. No. 1,158,400; Oct. 26; Gaz. vol. 219; p. 1194.
- Cohoe, Wallace P., assignor of one-third to The William Davies Company, Limited, and one-third to E. C. Fox, Toronto, Ontario, Canada. Apparatus and process for making tubes. No. 1,163,740; Dec. 14; Gaz. vol. 221; p. 398.
- Cohon, James A., Jr., Creve Coeur, assignor to AuLoGo Motor Cap Company, St. Louis, Mo. Motor-cap. No. 1,134,515; Apr. 6; Gaz. vol. 213; p. 158.
- Coin Controlled Lock Co. (See Farnsworth, Willis S., assignor.)
- Coin Device & Signal Co. (See Drew and Mazza, assignors.)
- Coin Machine Manufacturing Company. (See Birkenbeul, Edward B., assignor.)
- Coin Time Lock Co. (See Wyckoff, Amos A., assignor.)
- Coier, Gabriel D., Waynesboro, Va. Stirrup. No. 1,127,187; Feb. 2; Gaz. vol. 211; p. 184.
- Colt, Henry R., Chicago, Ill. Fountain-pen. No. 1,124,592; Jan. 12; Gaz. vol. 210; p. 531.
- Cokely, Elmer W., Los Angeles, Cal. Try-square. No. 1,135,259; Apr. 13; Gaz. vol. 213; p. 460.
- Coker, Carl D., et al. (See Beck, Washington, assignor.)
- Coker, Willie P., assignor of one-third to W. E. Sheets and one-third to E. L. Riley, Cordell, Okla. Yieldable pitman. No. 1,128,413; Feb. 16; Gaz. vol. 211; p. 701.
- Colahan, Charles, Stockton, Cal. Grain-harvester. No. 1,146,785; July 20; Gaz. vol. 216; p. 673.
- Colas, Joseph E., Paris, France. Indicating, registering, and controlling device worked by an electric current. No. 1,124,864; Jan. 12; Gaz. vol. 210; p. 629.
- Colberg, Frank J., Cape Girardeau, Mo. Plug-attaching device. No. 1,125,063; Jan. 19; Gaz. vol. 210; p. 733.
- Colborne Manufacturing Company. (See Colborne and Smith, assignors.)
- Colborne, Oliver, and D. W. Smith, assignors to Colborne Manufacturing Company, Chicago, Ill. Fruit-pitting machine. No. 1,136,509; Apr. 20; Gaz. vol. 213; p. 943.
- Colburn, Albert L., New Haven, Conn. Two-revolution reciprocating flat-bed printing-press. No. 1,137,383; Apr. 27; Gaz. vol. 213; p. 1294.
- Colburn, Charles P., New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Bevel-gearing. No. 1,160,975; Nov. 16; Gaz. vol. 220; p. 989.
- Colburn, E. A., Jr. (See Goeglein, William J., assignor.)
- Colburn, Ernest A., Jr. (See Bliley, Charles A., assignor.)
- Colburn, Herbert C., Victor, Colo. Feeding apparatus. No. 1,149,426; Aug. 10; Gaz. vol. 217; p. 438.
- Colburn, Herbert C., Victor, Colo. Feeding apparatus. No. 1,149,427; Aug. 10; Gaz. vol. 217; p. 439.
- Colburn, Irving W., Franklin, Pa., assignor, by mesne assignments, to Toledo Glass Company, Toledo, Ohio. Means for drawing sheet-glass. No. 1,156,273; Oct. 12; Gaz. vol. 219; p. 353.
- Colburn, Irving W., Franklin, Pa., assignor, by mesne assignments, to Toledo Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet-glass. No. 1,160,692; Nov. 16; Gaz. vol. 220; p. 892.
- Colby, Benjamin P., and G. L. Swasey, Boston, Mass. Non-refillable bottle. No. 1,163,893; Dec. 14; Gaz. vol. 221; p. 451.
- Colby, Daniel W., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for setting facing-books. No. 1,139,400; May 11; Gaz. vol. 214; p. 627.
- Colby, Daniel W., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Assorting and delivering mechanism. No. 1,139,401; May 11; Gaz. vol. 214; p. 628.
- Colby, Frank J., Philadelphia, Pa. Sampler. No. 1,133,933; Mar. 30; Gaz. vol. 212; p. 1604.
- Colby, George A., Calgary, Alberta, Canada. Shipping-crate. No. 1,157,509; Oct. 19; Gaz. vol. 219; p. 820.
- Colby, Mark R., Portland, Oreg., and J. Stewart, assignors to The Brown Hoisting Machinery Company, Cleveland, Ohio. Hoisting and conveying machine. No. 1,136,939; Apr. 27; Gaz. vol. 213; p. 1150.
- Colby, Mark R., Portland, Oreg., and E. W. Taylor, assignors to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for hoisting and conveying lumber-packages. No. 1,152,879; Sept. 7; Gaz. vol. 218; p. 183.
- Colby, Ora A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated apparatus. No. 1,146,310; July 13; Gaz. vol. 216; p. 486.
- Colclough, Robert R., Maxeys, Ga. Cultivator. No. 1,158,788; Nov. 2; Gaz. vol. 220; p. 133.
- Coldren, William P., Lebanon, Pa. Chain and flight and bucket connection. No. 1,133,539; Mar. 30; Gaz. vol. 212; p. 1466.
- Coldwell, Joseph, South Swansea, Mass. Thread-guide for spinning-machines. No. 1,134,315; Apr. 6; Gaz. vol. 213; p. 85.
- Coldwell, William H., Newburgh, N. Y. Motor lawnmower. No. 1,138,730; May 11; Gaz. vol. 214; p. 392.
- Coldwell, William H., Newburgh, N. Y. Lawn-mower. No. 1,150,931; Aug. 24; Gaz. vol. 217; p. 1089.
- Cole, Albert L., Auburndale, assignor of one-half to F. C. Parmenter, Gloucester, Mass. Fire-extinguishing bomb. No. 1,149,975; Aug. 10; Gaz. vol. 217; p. 637.
- Cole, Alfred B., Bloomsburg, Pa. Explosive. No. 1,126,401; Jan. 26; Gaz. vol. 210; p. 1245.
- Cole, Bert A., and R. E. Bondurant, Portland, Oreg. Coaster-vehicle. No. 1,123,686; Jan. 5; Gaz. vol. 210; p. 167.
- Cole Brothers Lightning Rod Company. (See Schmitt, Eugene A., assignor.)
- Cole, Charles R., et al. (See Martin, Charles E., assignor.)
- Cole, Demmitt C., Shelby, Nebr. Check-holder. No. 1,127,188; Feb. 2; Gaz. vol. 211; p. 185.
- Cole, Dwight S. (See Elliott and Cole.)
- Cole, Dwight S., Grand Rapids, Mich. Latch. No. 1,131,826; Mar. 16; Gaz. vol. 212; p. 760.
- Cole, Elnathan, assignor to Cole Manufacturing Company, Los Angeles, Cal. Gas-heater. No. 1,126,617; Jan. 26; Gaz. vol. 210; p. 1325.
- Cole, Everson P. (See Buzard, Cole, and Haslage.)
- Cole, Francis J., and F. F. Scoville, Schenectady, N. Y. Locomotive trailing truck. No. 1,143,943; June 22; Gaz. vol. 215; p. 1098.
- Cole, Franklin T., and A. C. Evans, Roland Park, Md. Overshoe for horses. No. 1,150,577; Aug. 17; Gaz. vol. 217; p. 911.
- Cole, George B., Spokane, Wash., and E. Duryee, Los Angeles, Cal. Pipe-forming machine. No. 1,146,477; July 13; Gaz. vol. 216; p. 549.
- Cole, Harry, Tyrrell, Ohio. Shade-roller attachment. No. 1,132,830; Mar. 23; Gaz. vol. 212; p. 1176.
- Cole, Henry, Lancaster, Ohio. Double currycomb and brush. No. 1,135,664; Apr. 13; Gaz. vol. 213; p. 604.
- Cole, Jay H., Binghamton, N. Y. Automatic elevator-guard. No. 1,160,263; Nov. 16; Gaz. vol. 220; p. 737.
- Cole, John A., New York, N. Y. Wiring system. No. 1,131,469; Mar. 9; Gaz. vol. 212; p. 599.
- Cole, John A., Leamington, England. Magneto for use on internal-combustion engines. No. 1,144,815; June 29; Gaz. vol. 215; p. 1431.
- Cole, John C., assignor to Fisk Rubber Company, Chicopee Falls, Mass. Rim construction for dual tires. No. 1,151,086; Aug. 24; Gaz. vol. 217; p. 1141.
- Cole, John F., Somerville, Mass. Azimuth-compass. No. 1,145,056; July 6; Gaz. vol. 216; p. 30.
- Cole, Louis M., Los Angeles, Cal. Label. (Reissue.) No. 14,000; Oct. 26; Gaz. vol. 219; p. 1202.
- Cole Manufacturing Company. (See Cole, Elnathan, assignor.)
- Cole, Marcellus, Washington, D. C. Device for cleaning sewers and pipes. No. 1,137,580; Apr. 27; Gaz. vol. 213; p. 1361.
- Cole, Marcellus, Washington, D. C. Filter. No. 1,137,581; Apr. 27; Gaz. vol. 213; p. 1361.
- Cole, Orlando J., Coxs Creek, Ky. Internal-combustion engine. No. 1,154,844; Sept. 28; Gaz. vol. 218; p. 967.
- Cole, Otto B., Boston, Mass., assignor to Arion Manufacturing Company, Portland, Me. Phonograph. No. 1,129,792; Feb. 23; Gaz. vol. 211; p. 1216.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Electric switch. No. 1,127,408; Feb. 9; Gaz. vol. 211; p. 300.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Cut-out box. No. 1,135,358; Apr. 13; Gaz. vol. 213; p. 494.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Electric safety-fuse. No. 1,140,953; May 25; Gaz. vol. 214; p. 1245.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Protected electric-service cut-out. No. 1,158,896; Nov. 2; Gaz. vol. 220; p. 171.

Alphabetical list of patentees—Continued.

- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Electric switch. No. 1,159,361; Nov. 9; Gaz. vol. 220; p. 362.
- Cole, Thomas H., Southsea, England. Headlight for automobiles. No. 1,132,433; Mar. 16; Gaz. vol. 212; p. 984.
- Cole, Thomas J., Guayanilla, Porto Rico. Tank sight-gage. No. 1,144,528; June 29; Gaz. vol. 215; p. 1330.
- Cole, Walter, Elgin, Ill. Butter-cutter. No. 1,145,557; July 6; Gaz. vol. 216; p. 203.
- Cole, William B., assignor of one-fourth to G. C. Webster and one-fourth to E. M. Warfuel, Chicago, Ill. Auto-fender. No. 1,123,848; Jan. 5; Gaz. vol. 210; p. 222.
- Cole, William H., Waltham, Mass. Fault-detector. No. 1,152,880; Sept. 7; Gaz. vol. 218; p. 184.
- Cole, William H., Waltham, Mass. System of electrical distribution. No. 1,152,881; Sept. 7; Gaz. vol. 218; p. 184.
- Cole, William T., Newtown, Conn., assignor to Fabric Fire Hose Company, New York, N. Y. Hose fabric. No. 1,139,467; May 11; Gaz. vol. 214; p. 652.
- Colegrove, George B. (See Farrelly and Colegrove.)
- Coleman, Abraham, *et al.* (See Walsh, John B., assignor.)
- Coleman, Alfred. (See Coleman, Thomas, A., T., Jr., and F.)
- Coleman, Alfred. (See Coleman, Thomas, Sr., A., T., Jr., and F.)
- Coleman, Arthur, Carmen, Okla. Motor-vehicle. No. 1,131,678; Mar. 16; Gaz. vol. 212; p. 706.
- Coleman, C. P., *et al.*, receivers. (See Meyer, Robert, assignor.) (Reissue.)
- Coleman, Clarence W., deceased, Westfield, N. J.; K. Coleman, administratrix, assignor to The Hall Switch & Signal Company. Signal system. No. 1,157,845; Oct. 26; Gaz. vol. 219; p. 998.
- Coleman, Clarence W., Westfield, N. J., and A. V. T. Day, New Rochelle, assignors, by mesne assignments, to Hall Switch & Signal Company, New York, N. Y. Electromagnetic switch. No. 1,163,068; Dec. 7; Gaz. vol. 221; p. 116.
- Coleman, Clyde J., New York, N. Y. Wardrobe. No. 1,149,343; Aug. 10; Gaz. vol. 217; p. 409.
- Coleman, Clyde J., New York, N. Y. Poultry-producing apparatus. No. 1,158,447; Nov. 2; Gaz. vol. 220; p. 13.
- Coleman, Clyde J., New Rochelle, N. Y., assignor, by mesne assignments, to Stern-Coleman Diamond Machine Company, Inc. Means for placing gems in holding-arbors. No. 1,149,552; Aug. 10; Gaz. vol. 217; p. 482.
- Coleman, Clyde J., New York, N. Y., assignor, by mesne assignments, to Virginia Refrigerator Corporation. Refrigerating apparatus. No. 1,152,708; Sept. 7; Gaz. vol. 218; p. 121.
- Coleman, Clyde J., New York, N. Y., assignor to The Hall Signal Company. Railway signaling system and apparatus. No. 1,160,993; Nov. 16; Gaz. vol. 220; p. 996.
- Coleman, Clyde J., assignor, by mesne assignments, to Hall Switch & Signal Company, New York, N. Y. Railway signaling system. No. 1,163,973; Dec. 14; Gaz. vol. 221; p. 478.
- Coleman, Emma S., Beatrice, Nebr. Composition of matter to be used for rendering paper impervious to air and moisture. No. 1,158,897; Nov. 2; Gaz. vol. 220; p. 171.
- Coleman, Ford, Akron, Ohio. Tire-forming core. No. 1,131,332; Mar. 9; Gaz. vol. 212; p. 551.
- Coleman, Frank. (See Coleman, Thomas, A., T., Jr., and F.)
- Coleman, Frank. (See Coleman, Thomas, Sr., A., T., Jr., and F.)
- Coleman, Fred, Danville, Ill. Combined lock and latch. No. 1,145,185; July 6; Gaz. vol. 216; p. 74.
- Coleman, George, Retro, Tenn. Athletic-shoe spike. No. 1,149,186; Aug. 10; Gaz. vol. 217; p. 351.
- Coleman, George S., Washington, D. C. Light-projecting apparatus. No. 1,133,103; Mar. 23; Gaz. vol. 212; p. 1274.
- Coleman, Harry S. (See Ducas and Coleman.)
- Coleman, James M., Montreal, Quebec, Canada. Car-heating system. No. 1,145,673; July 6; Gaz. vol. 216; p. 243.
- Coleman, James M., Montreal, Quebec, Canada. Truck-retaining center-bearing. No. 1,147,210; July 20; Gaz. vol. 216; p. 823.
- Coleman, James M., Montreal, Quebec, Canada. Non-freezing waste-outlet. No. 1,164,473; Dec. 14; Gaz. vol. 221; p. 654.
- Coleman, John P., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,127,593; Feb. 9; Gaz. vol. 211; p. 365.
- Coleman, John P., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 1,132,444; Mar. 16; Gaz. vol. 212; p. 984.
- Coleman, John P., Edgewood borough, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,138,087; May 4; Gaz. vol. 214; p. 129.
- Coleman, Katherine, administratrix. (See Coleman, Clarence W.)
- Coleman, Linn, *et al.* (See Annis, Daniel J., assignor.)
- Coleman, Paul H., Bonham, Tex. Hinged connection. No. 1,135,359; Apr. 13; Gaz. vol. 213; p. 495.
- Coleman, Solomon, *et al.* (See Walsh, John B., assignor.)
- Coleman, Thomas, Jr. (See Coleman, Thomas, Sr., A., T., Jr., and F.)
- Coleman, Thomas, Jr. (See Coleman, Thomas, A., T., Jr., and F.)
- Coleman, Thomas, A., T., Jr., and F., Derby, England. Drying and heating apparatus. No. 1,144,640; June 29; Gaz. vol. 215; p. 1368.
- Coleman, Thomas, Sr., A., T., Jr., and F., Derby, England. Drying and heating of stone, grit, sand, or other materials. No. 1,147,211; July 20; Gaz. vol. 216; p. 824.
- Coleman, William J., Hyde Park, Mass. Ventilator. No. 1,128,414; Feb. 16; Gaz. vol. 211; p. 701.
- Coleman, William J., Hyde Park, Mass. Pencil. No. 1,149,731; Aug. 10; Gaz. vol. 217; p. 548.
- Coles, David H., Brooklyn, N. Y. Safety tack-lifter. No. 1,130,147; Mar. 2; Gaz. vol. 212; p. 106.
- Coles, George J., Gateshead, England. Automatic coupling for train-pipes and the like. No. 1,165,754; Dec. 28; Gaz. vol. 221; p. 1181.
- Coles, Walter H., Troy, Ohio. Irrigation apparatus. No. 1,154,380; Sept. 21; Gaz. vol. 218; p. 782.
- Coles, Walter H., assignor to The Skinner Irrigation Company, Troy, Ohio. Irrigating-nozzle. No. 1,126,707; Feb. 2; Gaz. vol. 211; p. 14.
- Coleston, Claude E., Fellows, assignor of one-half to M. H. Whittier, Los Angeles, Cal. Silverware-safe. No. 1,161,189; Nov. 23; Gaz. vol. 220; p. 1111.
- Coley, Wade H. (See Absalom and Coley.)
- Colglazier, John W., Springfield, Ill. Automatic toy. No. 1,139,955; May 18; Gaz. vol. 214; p. 859.
- Colglazier, Robert W. (See Bryant, Clarence R., assignor.)
- Colidge, Paul, New York, N. Y. Adjustable support. No. 1,150,502; Aug. 17; Gaz. vol. 217; p. 883.
- Colin, Joseph A., Merriam, Kans. Damper-controlling mechanism. No. 1,142,553; June 8; Gaz. vol. 215; p. 553.
- Coll, John J., Reno, Nev. Valve. No. 1,152,604; Sept. 7; Gaz. vol. 218; p. 82.
- Coll, John J., Reno, Nev. Playing-card. No. 1,152,605; Sept. 7; Gaz. vol. 218; p. 83.
- Collapsible Metallic Box Company, The. (See Garber, Woods, and Jacobson, assignors.)
- Collar, Adoniram J., Yreka, Cal. Hydraulic valve. No. 1,128,228; Feb. 9; Gaz. vol. 211; p. 588.
- Collar, Adoniram J., Yreka, Cal. Current water-meter. No. 1,130,572; Mar. 2; Gaz. vol. 212; p. 257.
- Collar, Adoniram J., Yreka, Cal. Ditch-gate. No. 1,133,619; Mar. 30; Gaz. vol. 212; p. 1494.
- Collar, Adoniram J., Yreka, Cal. Spill-gate. No. 1,139,104; May 11; Gaz. vol. 214; p. 526.
- Collar, Adoniram J., Yreka, Cal. Self-closing attachment for faucets. No. 1,142,145; June 8; Gaz. vol. 215; p. 409.
- Collard, George L., Sharon, Pa. Preparing ore for blast-furnaces. No. 1,129,645; Feb. 23; Gaz. vol. 211; p. 1168.
- Collard, Victor R., Balaclava, Victoria, Australia. Resilient suspension device for the bodies of motor-cars and similar road-vehicles. No. 1,131,118; Mar. 9; Gaz. vol. 212; p. 477.
- Collardson, Louis, West Bromwich, England. Manufacture of substances from cellulose esters, cellulose compounds, india-rubber, and other ingredients. No. 1,128,851; Feb. 16; Gaz. vol. 211; p. 853.
- Colledge, Alfred A., Le Mars, Iowa, assignor to H. W. Klinkerfues, St. Paul, Minn. Buckle and loop. No. 1,144,984; June 29; Gaz. vol. 215; p. 1487.
- College, Clarence W., Hopewell, Pa. Film-washer. No. 1,146,136; July 13; Gaz. vol. 216; p. 426.
- Collens, Clarence L., 2d, assignor to The Reliance Electric & Engineering Company, Cleveland, Ohio. Speed gaging and indicating mechanism. No. 1,123,849; Jan. 5; Gaz. vol. 210; p. 222.
- Collett, Emil, assignor to Norsk Hydro-Elektrisk Kvaelforselselskab, Christiania, Norway. Concentrating dilute nitric acid. No. 1,133,840; Mar. 30; Gaz. vol. 212; p. 1574.
- Collett, Emil, assignor to Norsk Hydro-Elektrisk Kvaelforselselskab, Christiania, Norway. Concentrating dilute nitric acid. No. 1,154,289; Sept. 21; Gaz. vol. 218; p. 749.
- Collett, Emil, assignor to Norsk-Hydroelektrisk Kvaelforselselskab, Christiania, Norway. Concentrating dilute nitric acid. No. 1,158,181; Oct. 26; Gaz. vol. 219; p. 1117.
- Collett, Laura I., Nevada, Mo. Undergarment. No. 1,156,757; Oct. 12; Gaz. vol. 219; p. 524.
- Collette, Arthur, Brockton, Mass. Spring attachment for vehicle-springs. No. 1,128,587; Feb. 16; Gaz. vol. 211; p. 762.
- Collette, Austin B., Everett, Mass., assignor to American Steam Gauge & Valve Manufacturing Co. Testing apparatus. No. 1,134,316; Apr. 6; Gaz. vol. 213; p. 86.
- Collette, Eugene B., E. P. Larry, New Orleans, and N. Buras, Venice, La. Store-fixture. No. 1,139,257; May 11; Gaz. vol. 214; p. 577.
- Colletti, Ferdinando, *et al.* (See Schaffer, Martin R., assignor.)

Alphabetical list of patentees—Continued.

- Colley, Alred G., Richmond, Va. Internal-combustion engine. No. 1,165,494; Dec. 28; Gaz. vol. 221; p. 1089.
- Colley, Clayton D., Coeburn, Va. Carpet-measuring machine. No. 1,162,752; Dec. 7; Gaz. vol. 221; p. 7.
- Colley, Elbridge S., Portland, Me., assignor, by mesne assignments, to Mead-Morrison Manufacturing Co. Hoisting mechanism. No. 1,164,617; Dec. 14; Gaz. vol. 221; p. 702.
- Colleys, Henry E., Hammond, Ind. Pocket-lock. No. 1,125,817; Jan. 19; Gaz. vol. 210; p. 1004.
- Colleys, Henry E., Hammond, Ind. Roller-cultivator. No. 1,162,902; Dec. 7; Gaz. vol. 221; p. 58.
- Collier, Arthur T., St. Albans, England. Fabric containing india-rubber and the like. No. 1,149,897; Aug. 10; Gaz. vol. 217; p. 608.
- Collier, Charles E., *et al.* (See Fuller, Edward, Jr., assignor.)
- Collier, Charles R. (See Collier, Henry A. and C. R.)
- Collier, Clyde F., Lakeville, assignor of one-half to J. C. Lake, Big Prairie, Ohio. Rural-mail-delivery signaling apparatus. No. 1,131,211; Mar. 9; Gaz. vol. 212; p. 510.
- Collier, David C., San Diego, Cal. Portable desk. No. 1,147,077; July 20; Gaz. vol. 216; p. 776.
- Collier, Durward C., Barnesville, Ga. Union suit. No. 1,146,923; July 20; Gaz. vol. 216; p. 722.
- Collier, Guy B., Kinderhook, N. Y. Internal-combustion motor. No. 1,126,708; Feb. 2; Gaz. vol. 211; p. 14.
- Collier, Guy B., Kinderhook, N. Y. Hydrocarbon-motor. No. 1,130,148; Mar. 2; Gaz. vol. 212; p. 106.
- Collier, Guy B., Kinderhook, N. Y. Gas-lighting apparatus. No. 1,133,265; Mar. 30; Gaz. vol. 212; p. 1367.
- Collier, Guy B., Kinderhook, N. Y. Gas-lamp. No. 1,133,266; Mar. 30; Gaz. vol. 212; p. 1367.
- Collier, Guy B., Kinderhook, N. Y. Gas-lighting apparatus. No. 1,133,267; Mar. 30; Gaz. vol. 212; p. 1368.
- Collier, Henry A. and C. R., Plumstead, London, England. Wheel of motor-cycles and the like. No. 1,132,831; Mar. 23; Gaz. vol. 212; p. 1176.
- Collier, John C., Russellton, Pa. Safety-gate for elevator-hatchways. No. 1,136,655; Apr. 20; Gaz. vol. 213; p. 994.
- Collier, John Z. (See Helander, Eaton, and Collier.)
- Collier, William H., Nashville, Tenn. Combined dash-light, trouble-light, and cigar-lighter. No. 1,144,172; June 22; Gaz. vol. 215; p. 1181.
- Collin, Francis J., Dortmund, assignor to Aktien-Gesellschaft für Kohlendestillation, Dusseldorf, Germany. Coke-oven. No. 1,157,368; Oct. 19; Gaz. vol. 219; p. 771.
- Collin, George W., Bridgeport, Conn. Boiler cut-off system. No. 1,136,211; Apr. 20; Gaz. vol. 213; p. 835.
- Collin, George W., assignor to The Collin Valve Co., Bridgeport, Conn. Regulating-valve. No. 1,161,190; Nov. 23; Gaz. vol. 220; p. 1111.
- Collin Valve Co., The. (See Collin, George W., assignor.)
- Collinge, Carl F. (See Keveney and Collinge.)
- Collings, William A., Kansas City, Mo. Deformed reinforcing-bar. No. 1,152,606; Sept. 7; Gaz. vol. 218; p. 83.
- Collingwood, Fred P. and H. W., Attleboro, Mass. Wire fabric for ornamental wear. No. 1,140,445; May 25; Gaz. vol. 214; p. 1066.
- Collingwood, Harold W. (See Collingwood, Fred P. and H. W.)
- Collingwood, William, assignor to The Vulcan Foundry Limited, Newton-le-Willows, England. Riveting-machine. No. 1,165,851; Dec. 28; Gaz. vol. 221; p. 1213.
- Collins, Adelbert W., assignor to W. Elser, Newark, N. J. Filter. No. 1,162,455; Nov. 30; Gaz. vol. 220; p. 1599.
- Collins, Alfred F., Toronto, Ontario, and C. C. Craig, Winnipeg, Manitoba, Canada. Safety-razor-blade holder. No. 1,155,132; Sept. 28; Gaz. vol. 218; p. 1068.
- Collins, Caleb G., Woodmere, assignor to C. A. Stevens, New York, N. Y. Device for removing particles from gases or fumes. No. 1,148,501; Aug. 3; Gaz. vol. 217; p. 6.
- Collins, Cap B., Des Moines, Iowa. Rotary safety-razor. No. 1,127,409; Feb. 9; Gaz. vol. 211; p. 300.
- Collins, Charles W., Seattle, Wash. Clothes-drying machine. No. 1,155,468; Oct. 5; Gaz. vol. 219; p. 50.
- Collins, Clarkson A. (See Reenstierna, Gustaf L., assignor.)
- Collins, Edgar F. (See Gelsenhoner and Collins.)
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Electric welding. No. 1,144,350; June 29; Gaz. vol. 215; p. 1272.
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,144,351; June 29; Gaz. vol. 215; p. 1272.
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 1,156,668; Oct. 12; Gaz. vol. 219; p. 494.
- Collins, Edward C., Taunton, Mass., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for cooling stereotype printing-plates. No. 1,138,731; May 11; Gaz. vol. 214; p. 392.
- Collins, Elba O., Chillicothe, Ohio. Demountable rim for wheel-tires. No. 1,141,935; June 8; Gaz. vol. 215; p. 335.
- Collins, George M., Fairfax, Okla. Sweat-band. No. 1,133,934; Mar. 30; Gaz. vol. 212; p. 1605.
- Collins, Harry, Philadelphia, Pa. Folding box or case. No. 1,152,145; Aug. 31; Gaz. vol. 217; p. 1552.
- Collins, James E., and A. M. Clough, Lisbon, N. H. Cabinet. No. 1,127,189; Feb. 2; Gaz. vol. 211; p. 185.
- Collins, James H., Harrisburg, Pa. Toy. No. 1,129,551; Feb. 23; Gaz. vol. 211; p. 1135.
- Collins, Jeffrey N., Jackson, Mich. Curtain-mounting for vehicles. (Reissue.) No. 1,402,6; Dec. 7; Gaz. vol. 221; p. 314.
- Collins, Lee A., Louisville, Ky. Telephone-mouthpiece protector. No. 1,140,954; May 25; Gaz. vol. 214; p. 1245.
- Collins, Leon C., Roxbury, assignor of one-third to C. Wagner, Suffolk county, Mass. Positive driving mechanism for the hands of timepieces. No. 1,136,866; Apr. 20; Gaz. vol. 213; p. 1068.
- Collins, Maurice W. (See Greer, James, assignor.)
- Collins, Michael, Philadelphia, Pa. Apparatus for reclaiming oil from exhaust-steam. No. 1,140,118; May 18; Gaz. vol. 214; p. 918.
- Collins, Roderick G., Jr., New York, N. Y. Pneumatic-despatch tube and carrier. No. 1,148,956; Aug. 3; Gaz. vol. 217; p. 167.
- Collins, Roy V., New York, N. Y., assignor, by mesne assignments, to Collins Switch & Signal Company. Switch and signal system. No. 1,152,790; Sept. 7; Gaz. vol. 218; p. 149.
- Collins, Roy V., New York, N. Y., assignor, by mesne assignments, to Royal Engineering Corporation. Switch-throwing mechanism. No. 1,152,791; Sept. 7; Gaz. vol. 218; p. 150.
- Collins, Russell F., Spokane, Wash. Life-preserver. No. 1,129,958; Mar. 2; Gaz. vol. 212; p. 42.
- Collins, Simon C., Bainbridge, Pa. Rail-fastener. No. 1,146,051; July 13; Gaz. vol. 216; p. 397.
- Collins Switch & Signal Company. (See Collins, Roy V., assignor.)
- Collins, Thomas E., Chicago, Ill. Fire-door. No. 1,149,732; Aug. 10; Gaz. vol. 217; p. 548.
- Collins, Walter H., Summit, N. J. Egg-sorting device. No. 1,143,613; June 22; Gaz. vol. 215; p. 986.
- Collins, Warren, College Point, N. Y., assignor to Stamford Gas Stove Company, Stamford, Conn. Gas-heater. No. 1,148,360; July 27; Gaz. vol. 216; p. 1256.
- Collins, William D., New York, N. Y. Percolator. No. 1,136,776; Apr. 20; Gaz. vol. 213; p. 1037.
- Collins, William G. J., Chicago, Ill., assignor to United Cigar Manufacturers Company, New York, N. Y. Apparatus for displaying and vending cigars and other articles. No. 1,135,964; Apr. 13; Gaz. vol. 213; p. 709.
- Collins, William H., Meriden, Conn. Trap for hens' nests. No. 1,139,849; May 18; Gaz. vol. 214; p. 822.
- Collinson, Grover W., *et al.* (See Tredway, William E., assignor.)
- Collinson, Harry S. (See Bean and Collinson.)
- Collis, George, Clinton, Iowa. Icing-rack. No. 1,130,376; Mar. 2; Gaz. vol. 212; p. 186.
- Collis, George, Clinton, Iowa. Icing device. No. 1,130,377; Mar. 2; Gaz. vol. 212; p. 186.
- Collis, George, Clinton, Iowa. Producing article-holding devices. No. 1,130,378; Mar. 2; Gaz. vol. 212; p. 187.
- Collis, George, Clinton, Iowa. Icing-rack. No. 1,130,379; Mar. 2; Gaz. vol. 212; p. 187.
- Collison, Edward E., assignor to R. E. Gardner, St. Louis, Mo. Expansion-joint for vehicle-bodies. No. 1,162,980; Dec. 7; Gaz. vol. 221; p. 85.
- Colloredo-Mannfeld, Joseph P. (See Nešetřil, Jan, assignor.)
- Colman, Frank B. (See Fryer, Robert M., assignor.)
- Colman, Howard D., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Treating warp-threads. No. 1,129,849; Mar. 2; Gaz. vol. 212; p. 6.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Textile-machine. No. 1,149,499; Aug. 10; Gaz. vol. 217; p. 462.
- Colman, Howard D., and B. A. Peterson, assignors to Barber-Colman Company, Rockford, Ill. Thread-board-cleaning apparatus. No. 1,137,305; Apr. 27; Gaz. vol. 213; p. 1265.
- Colman, Samuel F., New York, N. Y. Corset. No. 1,143,944; June 22; Gaz. vol. 215; p. 1099.
- Colonial Conserve Co. (See Geyer, John F., assignor.)
- Colonial Trust Company, The, trustee. (See Ehrhart, Raymond N., assignor.)
- Colonial Trust Company, The, trustee. (See Flanders, Warren B., assignor.)
- Colonial Trust Company, The, trustee. (See Herr, Herbert T., assignor.)
- Colonial Trust Company, The, trustee. (See Hodgkinson, Francis, assignor.)
- Colonial Trust Company, The, trustee. (See Schmidt, Henry F., assignor.)
- Colonial Trust Company, The, trustee. (See Stend, William, assignor.)
- Colonnese, Frank, assignor of one-third to C. Rocca, New York, N. Y. Folding camera. No. 1,160,945; Nov. 9; Gaz. vol. 220; p. 606.
- Colorado Iron Works Company. (See Akins, Randall P., assignor.)

Alphabetical list of patentees—Continued.

- Colorado Radium Products Company, The. (See Heberling and Low, assignors.)
- Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Electric wave-amplifier. No. 1,128,292; Feb. 16; Gaz. vol. 211; p. 662.
- Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. System for amplifying electric waves. No. 1,129,959; Mar. 2; Gaz. vol. 212; p. 43.
- Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. System for the transmission of intelligence. No. 1,137,384; Apr. 27; Gaz. vol. 213; p. 1294.
- Colson, Samuel G., Ashton, Idaho. Steam-engine valve-gear. No. 1,136,893; Apr. 20; Gaz. vol. 213; p. 1078.
- Colter, George T., New York, N. Y. Overlap shower-ring. No. 1,128,662; Feb. 16; Gaz. vol. 211; p. 788.
- Coltharp, Albert S., Fallulah, La. Machine for removing boll-weevil. No. 1,149,500; Aug. 10; Gaz. vol. 217; p. 463.
- Colton, James H., assignor to Pacific Portland Cement Co., Consolidated, San Francisco, Cal. Sack-turning machine. No. 1,159,649; Nov. 9; Gaz. vol. 220; p. 465.
- Coltrin, John C., Lucas, Kans. Globe-valve construction. No. 1,160,139; Nov. 16; Gaz. vol. 220; p. 694.
- Columbia Machine & Stopper Corporation. (See Lawson, Clarence J., assignor.)
- Columbia Manufacturing Company. (See Bowers, Lionel F., assignor.)
- Columbia School Supply Co. (See Moore and Wade, assignors.)
- Columbus Dental Manufacturing Co., The. (See Critcher-son, George A., assignor.)
- Columbus Glass Company, The. (See Bright, Albert W., assignor.)
- Colven, James M., Ossining, N. Y. Filter. No. 1,125,899; Jan. 19; Gaz. vol. 210; p. 1031.
- Colvin, John B., Dundee, Miss. Street-car fender. No. 1,137,699; Apr. 27; Gaz. vol. 213; p. 1398.
- Colvin, John B., Dundee, Miss. Automatic head-lamp control. No. 1,137,700; Apr. 27; Gaz. vol. 213; p. 1398.
- Colvin, Rubin. (See Le Compte and Colvin.)
- Colvin, Rubin, Park City, Utah. Ore-treating apparatus. No. 1,142,497; June 8; Gaz. vol. 215; p. 535.
- Colwell, Carrie G., and J. H., St. Paul, Minn. Ash-pan holder. No. 1,132,561; Mar. 23; Gaz. vol. 212; p. 1074.
- Colwell, John H. (See Colwell, Carrie G. and J. H.)
- Comans, Wilhelm H., Rossland, British Columbia, Canada. Turn-plow. No. 1,123,850; Jan. 5; Gaz. vol. 210; p. 222.
- Comemale, Marcel, Clichy, France. Filtering element for air-purifiers and the like. No. 1,125,966; Jan. 26; Gaz. vol. 210; p. 1087.
- Combes, Henry C., Stallo, Miss. Hame. No. 1,127,190; Feb. 2; Gaz. vol. 211; p. 185.
- Combined Heat & Sprinkler Company. (See Nutter, Charles P., assignor.)
- Combs, George W., Leavenworth, Kans. Controlling means for gyratory structures. No. 1,142,146; June 8; Gaz. vol. 215; p. 410.
- Combs, George W., Leavenworth, Kans. Means for supporting and controlling gyratory structures. No. 1,152,396; Sept. 7; Gaz. vol. 218; p. 5.
- Combs, H. B., et al. (See Duval, Allen, assignor.)
- Combs, Jacob, Fayette county, near Montgomery, W. Va. Combined compound engine. No. 1,141,173; June 1; Gaz. vol. 215; p. 29.
- Combs, James M., Richmond, Ind. Attachment for plows. No. 1,126,402; Jan. 26; Gaz. vol. 210; p. 1245.
- Combusto Devices Corporation. (See Shore, William E., assignor.)
- Comee, George W., Waterloo, Iowa. Corner-fastening for bedsteads. No. 1,156,059; Oct. 12; Gaz. vol. 219; p. 281.
- Comee, Joseph F., assignor to Camel Company, Chicago, Ill. Car-door hanger. No. 1,126,403; Jan. 26; Gaz. vol. 210; p. 1246.
- Comee, Joseph F., assignor to Camel Company, Chicago, Ill. Door-hanger. No. 1,128,293; Feb. 16; Gaz. vol. 211; p. 662.
- Comee, Joseph F., assignor to Camel Company, Chicago, Ill. Car-door hanger. (Reissue.) No. 13,927; June 15; Gaz. vol. 215; p. 959.
- Comer, Andrew J., Cullison, Kans. Lister. No. 1,132,832; Mar. 23; Gaz. vol. 212; p. 1176.
- Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Telephone-receiver. No. 1,137,186; Apr. 27; Gaz. vol. 213; p. 1221.
- Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Resonator. No. 1,137,187; Apr. 27; Gaz. vol. 213; p. 1221.
- Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Differential-microphone repeater. No. 1,137,188; Apr. 27; Gaz. vol. 213; p. 1221.
- Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Transmitting apparatus. No. 1,137,189; Apr. 27; Gaz. vol. 213; p. 1222.
- Comer, John W., Chickasha, Okla. Shoe for pneumatic wheels. No. 1,148,957; Aug. 3; Gaz. vol. 217; p. 167.
- Comerford, Patrick, Victoria, British Columbia, Canada, assignor to Safety First Air Brake Company, Seattle, Wash. Air-brake system. No. 1,138,193; May 4; Gaz. vol. 214; p. 166.
- Comey, Henry N. (See Blanchard, Fred M., assignor.)
- Comfort, Edward W. (See Carrier and Comfort.) (Re-issue.)
- Comfort, Edward W., Winchester, Mass., assignor to American Moistening Company. Compressor-pump. No. 1,144,611; June 29; Gaz. vol. 215; p. 1368.
- Comingore, Lora, Anderson, Ind. Garment-protector. No. 1,141,690; June 1; Gaz. vol. 215; p. 215.
- Comings, William R., Wimbledon Park, England. Box-covering machine. No. 1,147,144; July 20; Gaz. vol. 216; p. 799.
- Comins, Frank B., Newton, Mass. Humidifier. No. 1,139,640; May 18; Gaz. vol. 214; p. 748.
- Commercial Camera Company. (See Greene, John S., assignor.)
- Commercial Camera Company. (See Gregory and Cark-huff, assignors.)
- Commercial Research Company, The. (See Eldred, Byron E., assignor.)
- Commercial Research Company. (See Heyl, Paul R., assignor.)
- Commercial Tractor Company. (See Beskow, Bernhard M., assignor.)
- Commercial Truck Company of America. (See Whitney, Eddy R., assignor.)
- Commercial Wireless & Development Co. (See Jensen and Fridham, assignors.)
- Common Sense Novelty Company. (See Adler, Sigfried, assignor.)
- Commons, William C., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Surface-plate. No. 1,157,762; Oct. 26; Gaz. vol. 219; p. 969.
- Commonwealth Engineering Company. (See Greene, Chester W., assignor.)
- Commonwealth Steel Company. (See Frede, Charles F., assignor.)
- Commonwealth Steel Company. (See Frede and West-lake, assignors.)
- Commonwealth Steel Company. (See Howard and Pfager, assignors.)
- Commonwealth Steel Company. (See Lehmann, Arthur B., assignor.)
- Commonwealth Steel Company. (See Pfager, Harry M., assignor.)
- Commonwealth Steel Company. (See Swanson, Edward R., assignor.)
- Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
- Commonwealth Steel Company. (See Westlake and Frede, assignors.)
- Comminos, George J., Pittsburgh, Pa. Gas-burner. No. 1,123,489; Jan. 5; Gaz. vol. 210; p. 100.
- Comminos, George J., Pittsburgh, Pa. Heater. No. 1,128,588; Feb. 16; Gaz. vol. 211; p. 762.
- Comp, Musser E., Flint, Mich. Valve. No. 1,145,831; July 6; Gaz. vol. 216; p. 299.
- Compagnie Des Forges Et Acieries De La Marine Et D'Homecourt. (See Rimailho, Emile, assignor.)
- Compagnie Generale Des Etablissements Pathe Freres, Phonographe Et Cinematographe. (See Marette, Jacques, assignor.)
- Compagnie Generale Radio-Telegraphique. (See Tronchon, Louis, assignor.)
- Compagnie pour la Fabrication des Compresseurs et Matériel d'Usines à Gaz. (See Heeley, George, assignor.)
- Company of Levinstein Limited. (See Levinstein and Bad-diley, assignors.)
- Compound Cycle Engine Company. (See Ostergren and Fast, assignors.)
- Compressed Fuel Company. (See Clarke and Bowen, assignors.)
- Comptograph Company. (See Wetmore and Menlann, assignors.)
- Compton, Harry L., Washington, D. C. Attachment for closure-disk-manufacturing machines. No. 1,160,693; Nov. 16; Gaz. vol. 220; p. 892.
- Compton, Paul, St. Louis, Mo. Dummy container. No. 1,127,734; Feb. 9; Gaz. vol. 211; p. 415.
- Computing Cheese Cutter Company. (See Dunn, Frank P., assignor.)
- Computing Cheese Cutter Company, The. (See Wilson, Forrest M., assignor.)
- Computing Scale Company. (See Dunn, Frank P., assignor.) (Reissue.)
- Computing Scale Company, The. (See Hopkinson, Joseph, assignor.)
- Computing Scale Company, The. (See Ludlow, George M., assignor.)
- Computing Scale Company, The. (See Menz, Emil, assignor.)
- Computing Scale Company, The. (See Menz and Jackson, assignors.)
- Comstock Automatic Pump Company. (See Veley and Deal, assignors.)
- Comstock, Clark S. (See Sargent, Henry D., assignor.)
- Comstock, Clark S., Sr., East Orange, N. J. Buckle. No. 1,126,404; Jan. 26; Gaz. vol. 210; p. 1246.

- Comstock, Clark S., Sr., East Orange, N. J. Buckle-slide. No. 1,150,850; Aug. 24; Gaz. vol. 217; p. 1062.
- Comstock, Corry B., New York, N. Y. Floor-drain. No. 1,143,174; June 15; Gaz. vol. 215; p. 808.
- Comstock, Corry B., New York, N. Y. Insulating means for bake-ovens. No. 1,156,390; Oct. 12; Gaz. vol. 219; p. 396.
- Comstock, Daniel F., Brookline, Mass. Marine protective coating. No. 1,123,687; Jan. 5; Gaz. vol. 210; p. 167.
- Comstock, Daniel F., Brookline, Mass. Method and apparatus for generating electricity. No. 1,128,229; Feb. 9; Gaz. vol. 211; p. 588.
- Comstock, Daniel F., Brookline, assignor to Comstock & Wescott, Incorporated, Boston, Mass. Preventing the rusting of iron and steel. No. 1,159,748; Nov. 9; Gaz. vol. 220; p. 502.
- Comstock, Daniel F., Brookline, and H. T. Kalmus, Boston, Mass. Speed-measuring apparatus. No. 1,136,105; Apr. 20; Gaz. vol. 213; p. 797.
- Comstock, Henry W., Chicago, Ill. Salt-shaker top. No. 1,127,735; Feb. 9; Gaz. vol. 211; p. 415.
- Comstock, Roger H., and R. J. McKie, Milford, Conn. Flower-pot handle and plant-support. No. 1,127,191; Feb. 2; Gaz. vol. 211; p. 186.
- Comstock & Wescott. (See Comstock, Daniel F., assignor.)
- Conant, Harold S., Baltimore, Md. Indirect-illuminating lamp. No. 1,123,688; Jan. 5; Gaz. vol. 210; p. 167.
- Conant, Samuel S., Toledo, Ohio. Wheel. No. 1,160,140; Nov. 16; Gaz. vol. 220; p. 694.
- Conard, James A., Atlanta, Ga. Sanitary cap for drinking-glasses. No. 1,156,391; Oct. 12; Gaz. vol. 219; p. 396.
- Conaway, Benjamin W., Bridgeville, Del. Lock. No. 1,126,709; Feb. 2; Gaz. vol. 211; p. 14.
- Conaway, Joseph E., Baltimore, Md. Safety device for submarine boats. No. 1,127,965; Feb. 9; Gaz. vol. 211; p. 497.
- Conbole, Joseph A., Pittsburgh, Cal. Poultry system. No. 1,135,665; Apr. 13; Gaz. vol. 213; p. 605.
- Conces, Vincent J., Sr., East Chicago, Ind. Jolting-machine. No. 1,165,755; Dec. 28; Gaz. vol. 221; p. 1182.
- Concrete Mixing and Conveying Company. (See McMichael, John H., assignor.)
- Concrete Products Company of Pittsburgh. (See Buente, Charles F., assignor.)
- Condé, Charles A., Camden, N. J., assignor to Bond Foundry and Machine Company, Manheim, Pa. Sheet-metal shaft-hanger. No. 1,130,709; Mar. 9; Gaz. vol. 212; p. 338.
- Conde, James B., Philadelphia, Pa. Bottle-closure. No. 1,164,258; Dec. 14; Gaz. vol. 221; p. 576.
- Condensite Company of America. (See Aylsworth, Jonas W., assignor.)
- Condensite Company of America. (See Aylsworth and Smith, assignors.)
- Condit, S. B., Jr. (See Burnham, George A., assignor.)
- Condit, Sears B., Jr. (See Burnham, George A., assignor.)
- Condon, Carr D., Boone, Iowa. Moving-picture apparatus. No. 1,123,689; Jan. 5; Gaz. vol. 210; p. 167.
- Condon, Edward T., Jr., New York, N. Y. Foldable support. No. 1,148,443; July 27; Gaz. vol. 216; p. 1283.
- Condon, James E., Brooklyn, N. Y. Train-stopping apparatus. No. 1,165,321; Dec. 21; Gaz. vol. 221; p. 988.
- Condon, William F. (See Bryns, Harry, assignor.)
- Conduitt, Lester O., East St. Louis, Ill. Press. No. 1,131,212; Mar. 9; Gaz. vol. 212; p. 510.
- Cone, Aaron. (See Rosofsky, Samuel H., assignor.)
- Cone, Grace B. (See Willbur, Lewis A., assignor.)
- Cone, Thomas H. S., Roundbrook, N. J. Signal-box. No. 1,139,258; May 11; Gaz. vol. 214; p. 578.
- Conekin, Dawson, St. Petersburg, Fla. Fishing device. No. 1,138,541; May 4; Gaz. vol. 214; p. 286.
- Conekin, Dawson, St. Petersburg, Fla. Fishing device. No. 1,138,542; May 4; Gaz. vol. 214; p. 287.
- Conerway, Edeor, Atwood, Tenn. Rail-joint. No. 1,153,606; Sept. 14; Gaz. vol. 218; p. 479.
- Conger, Charles A., Oakland, Cal. Salt and pepper shaker. No. 1,154,000; Sept. 21; Gaz. vol. 218; p. 650.
- Conger, Henry M., Washington, D. C. Apparatus for making sheet material. No. 1,157,149; Oct. 19; Gaz. vol. 219; p. 692.
- Conger, Henry M., Washington, D. C. Composition sheet or label. No. 1,163,894; Dec. 14; Gaz. vol. 221; p. 451.
- Conill, Enrique J., Paris, France. Internal-combustion engine. No. 1,151,568; Aug. 31; Gaz. vol. 217; p. 1352.
- Conine, Fred B., Clifton, Tex. Sleeve-protector. No. 1,153,893; Sept. 21; Gaz. vol. 218; p. 614.
- Conkell, Elias W., assignor of nine-twentieths to I. C. Fason, Bessemer, Ala. Electric signal and train control. No. 1,141,936; June 8; Gaz. vol. 215; p. 335.
- Conkey, Leonard L., Grand Rapids, assignor to T. Olinger, Holland, Mich. Chain-buckle. No. 1,134,994; Apr. 13; Gaz. vol. 213; p. 370.
- Conkle, Charles H., Cleveland, Ohio. Mask for divers. No. 1,139,850; May 18; Gaz. vol. 214; p. 822.
- Conklin, Edward D., assignor to The Whitehead & Hoag Company, Newark, N. J. Pin-receiving device. No. 1,153,175; Sept. 7; Gaz. vol. 218; p. 285.
- Conklla, Edward D., Madison, assignor to The Whitehead & Hoag Company, Newark, N. J. Top. No. 1,164,991; Dec. 21; Gaz. vol. 221; p. 875.
- Conklin, Harry R., Joplin, Mo. Pulp-settler. No. 1,147,786; July 27; Gaz. vol. 216; p. 1049.
- Conklin, Harry R., Joplin, Mo. Agitator. No. 1,160,848; Nov. 16; Gaz. vol. 220; p. 945.
- Conklin, Harry R., Joplin, Mo. Precipitation. No. 1,160,849; Nov. 16; Gaz. vol. 220; p. 945.
- Conklin, Harry R., Joplin, Mo. Precipitating apparatus. No. 1,160,850; Nov. 16; Gaz. vol. 220; p. 945.
- Conklin, Lewis P., Red Bank, N. J. Antirattling sash-lock and window-stop. No. 1,153,763; Sept. 14; Gaz. vol. 218; p. 532.
- Conklin, Vernon A., Bayonne, N. J. Train-doors control. No. 1,159,177; Nov. 2; Gaz. vol. 220; p. 267.
- Conklin, William F., Tarentum, Pa. Automatic brake mechanism. No. 1,162,573; Nov. 30; Gaz. vol. 220; p. 1638.
- Conley Camera Company. (See Drake, James C., assignor.)
- Conley Electric Furnace Company, The. (See Hampton, William H., assignor.)
- Conley Foli Company. (See Bryner, Adolf, assignor.)
- Conley, George F., Chicago, Ill. Pneumatic plug. No. 1,158,108; Oct. 26; Gaz. vol. 219; p. 1091.
- Conley, Michael, Denver, Colo. Drill-extractor. No. 1,133,709; Mar. 30; Gaz. vol. 212; p. 1528.
- Conley, Thomas J. (See Walsh, John L., assignor.)
- Conlon, Andrew J., P. J. Murphy, and J. T. Tighe, Scranton, Pa. Connection-protector and trolley-replacer. No. 1,129,277; Feb. 23; Gaz. vol. 211; p. 1039.
- Conn, Byron O. (See Root, Charles F., assignor.)
- Conn, Charles A., Pittsburgh, Pa. Pump-valve. No. 1,129,072; Feb. 23; Gaz. vol. 211; p. 967.
- Conn, Charles G. (See Hardy, Paul C., assignor.)
- Conn, Joseph C., Boonton, N. J. Belt-fastener. No. 1,125,477; Jan. 19; Gaz. vol. 210; p. 881.
- Conn, Robert, and O. H. Shultz, Vernon, British Columbia, Canada. Making artificial stone. No. 1,153,032; Sept. 7; Gaz. vol. 218; p. 238.
- Connally, Clarence W. (See McDonald, Charles W., assignor.)
- Connecticut Aircraft Company. (See Smith, Rexford M., assignor.)
- Connecticut Telephone & Electric Company, The. (See Wilcox, Ernest C., assignor.)
- Connell, Charles E. (See Johnson, Bird, and Connell.)
- Connell, James B., Brooklyn, N. Y. Printing-press. No. 1,160,046; Nov. 9; Gaz. vol. 220; p. 607.
- Connell, James J., Chicago, Ill. Guard and holder for fly-paper. No. 1,158,119; Oct. 26; Gaz. vol. 219; p. 1093.
- Connell, James R., assignor to Wisconsin Iron and Wire Works, Milwaukee, Wis. Lightning-rod fastener. No. 1,125,064; Jan. 19; Gaz. vol. 210; p. 734.
- Connella, James W., Reno, Nev. Holder for books and magazines. No. 1,160,851; Nov. 16; Gaz. vol. 220; p. 946.
- Connolly, Arthur J., assignor of one-half to M. J. Delworth, Chicago, Ill. Plate-positioning means for printing-presses. No. 1,160,579; Nov. 16; Gaz. vol. 220; p. 848.
- Connolly, Frank B. (See Murphy, Daniel W., assignor.)
- Connolly Iron Sponge & Governor Company. (See Hayward, Harold A., assignor.)
- Connolly, James A., Hamilton, Ohio. Brake-shoe. No. 1,153,154; Sept. 7; Gaz. vol. 218; p. 278.
- Connolly, James J., Buffalo, N. Y. Moving-picture apparatus. No. 1,156,211; Oct. 12; Gaz. vol. 219; p. 332.
- Connolly, William A. (See Hesse, John J., assignor.)
- Conner, Abner F., and G. L. Willett, Indianapolis, Ind., assignors to Thos. Cusack Co. Sign. No. 1,133,935; Mar. 30; Gaz. vol. 212; p. 1605.
- Conner, Abner F., and G. L. Willett, Indianapolis, Ind., assignors to Thos. Cusack Company, Chicago, Ill. Illuminated sign. No. 1,141,691; June 1; Gaz. vol. 215; p. 215.
- Conner, Abner F., and G. L. Willett, Indianapolis, Ind., assignors to Thos. Cusack Co. Sign. No. 1,151,343; Aug. 24; Gaz. vol. 217; p. 1228.
- Conner, Abner F., and G. L. Willett, Indianapolis, Ind., assignors to Thos. Cusack Co. Sign. No. 1,152,146; Aug. 31; Gaz. vol. 217; p. 1552.
- Conner, Amber R., Meredith Center, N. H. Cutter-bar construction. No. 1,134,588; Apr. 6; Gaz. vol. 213; p. 184.
- Conner, Amber R., Meredith Center, N. H. Dirigible headlight. No. 1,145,750; July 6; Gaz. vol. 216; p. 271.
- Conner, Carlton W., Toronto, Ontario, Canada. Conductor-pipe book. No. 1,160,047; Nov. 9; Gaz. vol. 220; p. 607.
- Conner, Charles W., assignor to One-Piece Rifocal Lens Company, Indianapolis, Ind. Apparatus for grinding and polishing lenses. No. 1,162,059; Nov. 30; Gaz. vol. 220; p. 1455.
- Conner, Robert S., et al. (See White, William S. M., assignor.)
- Conners, Herbert A., Boston, Mass. Lifting-jack. No. 1,144,933; June 29; Gaz. vol. 215; p. 1469.
- Conners, Walter W., Chicago, Ill. Explosive-engine. No. 1,135,501; Apr. 13; Gaz. vol. 213; p. 545.
- Conners, James W., Kewanee, Ill. Centering-square. No. 1,146,691; July 13; Gaz. vol. 216; p. 621.
- Conness, Walter, San Francisco, Cal. Cord-cutting device. No. 1,128,663; Feb. 16; Gaz. vol. 211; p. 788.

Alphabetical list of patentees—Continued.

- Connet, Frederick N., Providence, R. I. Flow-measuring device. No. 1,129,073; Feb. 23; Gaz. vol. 211; p. 967.
- Conniff, Philip. (See Gallagher, Peter F., assignor.)
- Conning, Andrew, and V. Bourdon, Seattle, Wash. Adjustable mirror-bracket. No. 1,129,960; Mar. 2; Gaz. vol. 212; p. 43.
- Connolly, Charles M. (See Kennedy and Connolly.)
- Connor, Alfred, Camperdown, near Sydney, New South Wales, Australia. Hat-fastener. No. 1,137,839; May 4; Gaz. vol. 214; p. 41.
- Connor, Elmer R. (See Connor and Voelpel.)
- Connor, Elmer R., C. W. Voelpel, Port Richmond, and J. M. Connor, New York, N. Y. Toy golf game. No. 1,127,861; Feb. 9; Gaz. vol. 211; p. 461.
- Connor, James H., Sharpsburg, Pa. Manufacturing fertilizers. No. 1,163,130; Dec. 7; Gaz. vol. 221; p. 138.
- Connor, John L. O. (See Hall and Connor.)
- Connor, Joseph M. (See Connor, Voelpel, and Connor.)
- Connor, Joseph M., New York, E. R. Connor, and C. W. Voelpel, Port Richmond, N. Y. Toy game. No. 1,131,995; Mar. 16; Gaz. vol. 212; p. 820.
- Connor, Maurice N., assignor to F. W. Carter, Buffalo, N. Y. Fire-extinguisher. No. 1,129,850; Mar. 2; Gaz. vol. 212; p. 6.
- Connor, Patrick F., assignor of one-fourth to O. W. Ward, one-eighth to A. Schull-Gramm, New York, N. Y., and one-eighth to E. C. Abbott, Boston, Mass. Drill-press. No. 1,155,891; Oct. 5; Gaz. vol. 219; p. 197.
- Connor, William W., De Ridder, assignor to C. H. Heider, Oberlin, La. Conveyor-chain. No. 1,135,158; Apr. 13; Gaz. vol. 213; p. 428.
- Conover, Edwin K., assignor to Conover Motor Car Company, Paterson, N. J. Throttle and spark control for automobiles. No. 1,131,600; Mar. 9; Gaz. vol. 212; p. 643.
- Conover, Edwin K., assignor to Conover Motor Car Company, Paterson, N. J. Controlling mechanism for motor-vehicles. No. 1,143,361; June 15; Gaz. vol. 215; p. 875.
- Conover Motor Car Company. (See Conover, Edwin K., assignor.)
- Conover, William M., Gettysburg, Pa., assignor of one-half to H. A. Sheads, Grand Forks, British Columbia, Canada. Support for motor-cycles. No. 1,124,109; Jan. 5; Gaz. vol. 210; p. 309.
- Conrad, Archie B., Philadelphia, Pa. Auxiliary air-inlet device for internal combustion engines. No. 1,164,576; Dec. 14; Gaz. vol. 221; p. 688.
- Conrad, Charles A., Brooklyn, N. Y. Pin-tag. No. 1,127,862; Feb. 9; Gaz. vol. 211; p. 462.
- Conrad, Elmer E., West Salem, assignor of one-half to H. A. Tulloch, Genoa, Wis. Trolley-stop. No. 1,155,214; Sept. 28; Gaz. vol. 218; p. 1095.
- Conrad, Elwood H., Trevorton, Pa. Means for attaching and detaching light-globes. No. 1,157,617; Oct. 19; Gaz. vol. 219; p. 853.
- Conrad, Ezra M., Seville, Ohio. Nut-lock. No. 1,132,073; Mar. 16; Gaz. vol. 212; p. 849.
- Conrad, Frank. (See Davis and Conrad.)
- Conrad, Frank, Swissvale, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer for use with current-rectifying apparatus. No. 1,123,248; Jan. 5; Gaz. vol. 210; p. 16.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety device for starting-motors. No. 1,130,573; Mar. 2; Gaz. vol. 212; p. 257.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Overload and reverse current relay. No. 1,137,840; May 4; Gaz. vol. 214; p. 41.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Storage-battery regulator. No. 1,146,924; July 20; Gaz. vol. 216; p. 722.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,146,925; July 20; Gaz. vol. 216; p. 722.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulator for electrical circuits. No. 1,146,926; July 20; Gaz. vol. 216; p. 723.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective means for electrical systems. No. 1,155,133; Sept. 28; Gaz. vol. 218; p. 1068.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Means for protecting electrical systems. No. 1,155,134; Sept. 28; Gaz. vol. 218; p. 1069.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrically-operated device. No. 1,158,898; Nov. 2; Gaz. vol. 220; p. 171.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor electric device. No. 1,159,900; Nov. 9; Gaz. vol. 220; p. 557.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting means for vapor electric devices. No. 1,166,186; Dec. 28; Gaz. vol. 221; p. 1333.
- Conrad, Frank, Swissvale, Pa., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Electric measuring instrument. No. 1,141,380; June 1; Gaz. vol. 215; p. 106.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,146,927; July 20; Gaz. vol. 216; p. 723.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pressure-gage. No. 1,150,016; Aug. 17; Gaz. vol. 217; p. 712.
- Conrad, John B., Nicolaus, Cal. Electric motor. No. 1,132,445; Mar. 16; Gaz. vol. 212; p. 984.
- Conrad, Joseph L., assignor of one-third to T. D. Wright and one-third to A. S. Halstrom, Durham, N. C. Electric cable. No. 1,157,208; Oct. 19; Gaz. vol. 219; p. 713.
- Conrad, Joshua C., Cement, Okla. Cotton-huller. No. 1,139,345; May 11; Gaz. vol. 214; p. 607.
- Conrad, Karl G. F., Chemnitz, Germany. Dumping-vehicle. No. 1,160,379; Nov. 16; Gaz. vol. 220; p. 777.
- Conrad, Nicholas J. (See Schweitzer and Conrad.)
- Conrader, Rudolph, Erie, Pa. Device for treating Artesian wells. No. 1,123,690; Jan. 5; Gaz. vol. 210; p. 168.
- Conrader, Rudolph, Erie, Pa. Pump-regulating mechanism. No. 1,135,360; Apr. 13; Gaz. vol. 213; p. 495.
- Conrader, Rudolph, Erie, Pa. Regulator. No. 1,156,392; Oct. 12; Gaz. vol. 219; p. 397.
- Conradi, Edward W., assignor of one-half to C. M. Bogle, Seattle, Wash. Feeding apparatus for can-body blanks. No. 1,129,456; Feb. 23; Gaz. vol. 211; p. 1102.
- Conradson, Conrad M., Madison, Wis. Automatic chuck for lathes. No. 1,125,479; Jan. 19; Gaz. vol. 210; p. 882.
- Conradson, Conrad M., Madison, Wis. Automatic multiple-spindle lathe. No. 1,140,299; May 18; Gaz. vol. 214; p. 979.
- Conradson, Conrad M., Madison, Wis. Turret-post. No. 1,143,251; June 15; Gaz. vol. 215; p. 837.
- Conradson, Conrad M., Madison, Wis. Turret tool-post. No. 1,143,252; June 15; Gaz. vol. 215; p. 837.
- Conrady, Alexander E., and A. Hamburger, London, England. Color photography. No. 1,140,576; May 25; Gaz. vol. 214; p. 1113.
- Conrady, Philipp, Bommersheim, near Oberursel im Taunus, Germany. Engine with rotating piston. No. 1,136,409; Apr. 20; Gaz. vol. 213; p. 907.
- Conran, William F., Jr., Brooklyn, N. Y. Stand-pipe and sprinkler system. No. 1,156,978; Oct. 19; Gaz. vol. 219; p. 632.
- Conrady, August E., and C. H. Wagner, Cleveland, Kans. Rotating-blade sharpener. No. 1,149,031; Aug. 3; Gaz. vol. 217; p. 193.
- Conrath, Frederick, St. Paul, Minn. Oil-stove. No. 1,146,555; July 13; Gaz. vol. 216; p. 575.
- Conrick, John P., *et al.* (See Forest, Francis A., assignor.)
- Conroy, Thomas D. (See Brockman and Conroy.)
- Conroy, William F., Manuet, N. Y. Lock-nut. No. 1,143,508; June 15; Gaz. vol. 215; p. 924.
- Conry, William, Elkhart, Ind. Paper tube for toilet use. No. 1,126,710; Feb. 2; Gaz. vol. 211; p. 15.
- Conser, Charles J., Chicago, Ill. Sofa-bed. No. 1,139,641; May 18; Gaz. vol. 214; p. 748.
- Considine, Joseph P., Detroit, Mich. Coal breaker and scraper. No. 1,138,627; May 11; Gaz. vol. 214; p. 354.
- Consoli, Frank, Brooklyn, N. Y. Violin finger-board. No. 1,126,957; Feb. 2; Gaz. vol. 211; p. 102.
- Consolidated Brake & Engineering Co., The. (See Smith, William R., assignor.)
- Consolidated Car Fender Company. (See Armitage, Joseph B. and G. H., assignors.)
- Consolidated Car Heating Company. (See Doyle, James S., assignor.)
- Consolidated Car-Heating Company. (See Gardiner, William H., Jr., assignor.)
- Consolidated Car-Heating Company. (See McElroy, James F., assignor.)
- Consolidated Car-Heating Company *et al.* (See Williams, Harry S., assignor.)
- Consolidated Dental Manufacturing Company. (See Hardy, James F., assignor.)
- Consolidated Machine Company. (See Bolin, Richard H., assignor.)
- Consolidated Machine Company. (See Landsheet, Charles, assignor.)
- Consolidated Patents Co. (See Kenworthy, Charles A., assignor.)
- Consolidated Railway Electric Lighting and Equipment Co. (See Kennedy, Patrick, assignor.)
- Consolidated Railway Electric Lighting and Equipment Company. (See Kennedy and Misland, assignors.)
- Consolidated Safety Pin Company. (See Church, Herbert B., assignor.)
- Consolidated Safety Valve Company, The. (See Blanchard and Crocker, assignors.)
- Constantine, Nicolae, Indiana Harbor, Ind. Pot and pan lifter. No. 1,143,253; June 15; Gaz. vol. 215; p. 838.

Alphabetical list of patentees—Continued.

- Constantinides, Alexandre N., Stamford, Conn., assignor of one-fourth to J. Staryeu, Holyoke, Mass. Padlock. No. 1,160,694; Nov. 16; Gaz. vol. 220; p. 893.
- Contal, Camille, St. Cloud, France. Gearing. No. 1,129,457; Feb. 23; Gaz. vol. 211; p. 1103.
- Contal, Camille, St.-Cloud, France. Suspension device for vehicles. No. 1,140,955; May 25; Gaz. vol. 214; p. 1245.
- Conte, James, Chicago, Ill. Feeder for nut dipping and coating machines. No. 1,158,120; Oct. 26; Gaz. vol. 219; p. 1096.
- Conte, James, Lima, Ohio. Feed mechanism for candy-coating machines. No. 1,138,356; May 4; Gaz. vol. 214; p. 224.
- Conti, Anthony S., assignor of thirty-five one-hundredths to M. A. Lea and thirty one-hundredths to C. V. Jewell, Chicago, Ill. Pneumatic sander. No. 1,160,852; Nov. 16; Gaz. vol. 220; p. 946.
- Conti, Dominique J. E., Roanne, France. Weed-cutter or cultivator. No. 1,157,150; Oct. 19; Gaz. vol. 219; p. 693.
- Continental Asbestos Corporation. (See Warrell, Alexander, assignor.)
- Continental Can Company. (See Englar, Clayton H., assignor.)
- Continental Can Company. (See Kronquest, Alfred L., assignor.)
- Continental Can Company. (See Robertson, Hugh H., assignor.)
- Continental Can Company. (See Taliaferro, John C., assignor.)
- Continental Can Company. (See Warne, Ivar F., assignor.)
- Continental Can Company. (See Wing, John F., assignor.)
- Continental & Commercial Trust & Savings Bank, trustee. (See Miehle, Robert, assignor.)
- Continental Engineering Co. (See Pfeffer, John E., assignor.)
- Continental Gas Compressing Corporation. (See Maag, Gustav C., assignor.)
- Continental Gas Compressing Corporation. (See Schill, Emil, assignor.)
- Continental Gin Company. (See Young, Laurence C., assignor.)
- Continental Investment Company. (See Hartenstein, Herman L., assignor.)
- Continental-Licht- und Apparatebau-Gesellschaft m. b. H. (See Seligmann, Henry, assignor.)
- Continental Machine Company. (See Krummel, Louis C., assignor.)
- Continental Paper Bag Company. (See Yulke, Edward F., assignor.)
- Continental Process Corporation. (See Bibb, Dandridge H., assignor.)
- Continental Rubber Works. (See Darling, Willis A., assignor.)
- Confidential Zinc Furnace Company, The. (See Johnson, Woolsey M., assignor.)
- Continuous Casting Corporation. (See Mellen, Grenville, assignor.)
- Continuous Zinc Furnace Company, The. (See Johnson, Woolsey M., assignor.)
- Continuous Zinc Furnace Company, The. (See Johnson and Hale, assignors.)
- Contzen, Heinrich, Dusseldorf, Germany. Instrument for measuring the velocity of flow of fluids. No. 1,128,949; Feb. 16; Gaz. vol. 211; p. 890.
- Converse, Atherton D., Winchendon, Mass. Work-bench. No. 1,160,380; Nov. 16; Gaz. vol. 220; p. 777.
- Converse, Francis B., Akron, Ohio, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,851; Mar. 2; Gaz. vol. 212; p. 7.
- Converse, Francis B., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,155,892; Oct. 5; Gaz. vol. 219; p. 197.
- Converse, Frederic S., Binghamton, N. Y. Coal-loading machine. No. 1,133,008; Mar. 23; Gaz. vol. 212; p. 1241.
- Converse, Pearl D., Columbus, Ohio. Excavating-machine. No. 1,157,209; Oct. 19; Gaz. vol. 219; p. 713.
- Converse, William E., Franktown, Colo. Sickle-holder. No. 1,149,116; Aug. 3; Gaz. vol. 217; p. 220.
- Convery, Martin T., assignor of one-half to V. P. Padula, Philadelphia, Pa. Shock-absorber. No. 1,160,381; Nov. 16; Gaz. vol. 220; p. 777.
- Conway, John, East Toledo, Ohio. Fruit-jar. No. 1,146,137; July 13; Gaz. vol. 216; p. 427.
- Conway, Thomas W., North Bergen, N. J., assignor of one-half to R. S. Pollock. Coasting-sleigh. No. 1,142,799; June 15; Gaz. vol. 215; p. 676.
- Conway, William, South Boston, Mass. Garbage-press. No. 1,130,149; Mar. 2; Gaz. vol. 212; p. 106.
- Conway, William, South Boston, Mass. Clasp. (Re-issue.) No. 14,001; Oct. 26; Gaz. vol. 219; p. 1202.
- Conwell, James S., and H. E. Little, Los Angeles, Cal. Heater for gaseous fuel. No. 1,124,706; Jan. 12; Gaz. vol. 210; p. 572.
- Conwell, Samuel H., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Release-rigging for car-couplings. No. 1,131,996; Mar. 16; Gaz. vol. 212; p. 821.
- Conwell, Samuel H., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Release-rigging for car-couplings. No. 1,164,631; Dec. 21; Gaz. vol. 221; p. 749.
- Convell, Walter L., Upper Montclair, N. J. Trap-door for platforms of vestibule railway-cars. No. 1,125,065; Jan. 19; Gaz. vol. 210; p. 734.
- Convell, Walter L., Upper Montclair, N. J. Door locking and releasing device. No. 1,125,066; Jan. 19; Gaz. vol. 210; p. 734.
- Convell, Walter L., Jr. (See Fisher, Frederick A., assignor.)
- Cook, Aaron J., Gloster, Miss. Vehicle attachment. No. 1,143,751; June 22; Gaz. vol. 215; p. 1032.
- Cook, Adam F., et al. (See Cook, William J., assignor.)
- Cook, Albert E., Odebolt, Iowa. Agricultural implement. No. 1,129,170; Feb. 23; Gaz. vol. 211; p. 1001.
- Cook, Albert E., Kankakee, Ill. Plow-disk assembly. No. 1,158,110; Oct. 26; Gaz. vol. 219; p. 1092.
- Cook, Albert E., Odebolt, Iowa, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Self-clearing tractor-wheel. No. 1,156,212; Oct. 12; Gaz. vol. 219; p. 333.
- Cook, Albert E., and T. Vantuyt, Odebolt, Iowa; said Vantuyt assignor to said Cook. Automobile plow. No. 1,158,109; Oct. 26; Gaz. vol. 219; p. 1092.
- Cook, Alice A., Rich Hill, Mo. Combination strainer, funnel, and lid for culinary vessels. No. 1,137,190; Apr. 27; Gaz. vol. 213; p. 1222.
- Cook, Charles A., et al. (See Sutherland, Walter R., assignor.)
- Cook, Charles H. (See Dungan, James G., assignor.)
- Cook, David A., assignor to B. W. Bell, Detroit, Mich. Coupling. No. 1,125,067; Jan. 19; Gaz. vol. 210; p. 735.
- Cook, David B., assignor to Acme Road Machinery Company, Frankfort, N. Y. Scarifier. No. 1,134,945; Apr. 6; Gaz. vol. 213; p. 307.
- Cook, Don J. (See Lewis and Cook.)
- Cook, Edwin, et al. (See Sutherland, Walter R., assignor.)
- Cook, Elkanah S., Dayton, Wash. Oil-burner. No. 1,126,711; Feb. 2; Gaz. vol. 211; p. 15.
- Cook, Emanuel M., Indianapolis, Ind. Element for automatic fire-extinguishers. No. 1,155,339; Oct. 5; Gaz. vol. 219; p. 5.
- Cook, Ernest E. (See Easter and Cook.)
- Cook, Eugene, Niles, Mich. Metal cattle-guard. No. 1,125,967; Jan. 26; Gaz. vol. 210; p. 1088.
- Cook, Frank B., assignor to Frank B. Cook Company, Chicago, Ill. Mounting objects. No. 1,161,191; Nov. 23; Gaz. vol. 220; p. 1112.
- Cook, Frank B., assignor to Frank B. Cook Company, Chicago, Ill. Mounting structures for electrical conductors. No. 1,161,192; Nov. 23; Gaz. vol. 220; p. 1112.
- Cook, Frank B., assignor to Frank B. Cook Company, Chicago, Ill. Making spring-jacks. No. 1,161,193; Nov. 23; Gaz. vol. 220; p. 1112.
- Cook, Frank B., assignor to Frank B. Cook Company, Chicago, Ill. Making connecting-plugs. No. 1,161,194; Nov. 23; Gaz. vol. 220; p. 1113.
- Cook, Frank B., assignor to Frank B. Cook Company, Chicago, Ill. Cable-terminal. No. 1,165,756; Dec. 28; Gaz. vol. 221; p. 1182.
- Cook, Frank J., assignor to The Konrsv Electric Company, Cleveland, Ohio. Electrical heater. No. 1,134,995; Apr. 13; Gaz. vol. 213; p. 370.
- Cook, Frederick. (See Lamprell and Cook.)
- Cook, Frederick H., assignor of one-half to R. N. King, Dayton, Ohio. Tobacco-harvester. No. 1,134,184; Apr. 6; Gaz. vol. 213; p. 37.
- Cook, George, Buffalo, N. Y. Superheater for boilers. No. 1,140,956; May 25; Gaz. vol. 214; p. 1246.
- Cook, George, Sioux City, Iowa. Shock-absorber and safety attachment for percussion-operated tools. No. 1,142,238; June 8; Gaz. vol. 215; p. 442.
- Cook, George E., New York, N. Y., assignor, by mesne assignments, to Union Iron Works, Hoboken, N. J. Hoisting-bucket. No. 1,166,400; Dec. 28; Gaz. vol. 221; p. 1412.
- Cook, George W., Neosho Rapids, Kans. Thill-tug. No. 1,131,679; Mar. 16; Gaz. vol. 212; p. 706.
- Cook, Hattie G., McGirk, Mo. Hotbed. No. 1,160,853; Nov. 16; Gaz. vol. 220; p. 946.
- Cook, Henry J., Los Angeles, Cal., and H. E. Marsden, Ottumwa, Iowa. Device for rotating pneumatic drills. No. 1,152,882; Sept. 7; Gaz. vol. 218; p. 185.
- Cook, Howard G., et al. (See McCauley, Albert J., assignor.)
- Cook, Howard G., St. Louis, Mo., assignor to W. M. Duncan, Alton, Ill. Coal-washer. No. 1,162,753; Dec. 7; Gaz. vol. 221; p. 8.
- Cook, James H., Detroit, assignor of one-half to T. J. Lyon, Homer, Mich., and one-half to G. C. Stebbins and M. E. Carr, Tulsa, Okla. Injector. No. 1,159,178; Nov. 2; Gaz. vol. 220; p. 267.
- Cook, James L., et al. (See Cook, William J., assignor.)
- Cook, James M., Mount Gilead, Ohio. Propelling means for velocipedes. No. 1,160,048; Nov. 9; Gaz. vol. 220; p. 607.
- Cook, Jesse L., Omaha, Nebr. Means for practising rapid writing. No. 1,162,849; Dec. 7; Gaz. vol. 221; p. 41.

Alphabetical list of patentees—Continued.

- Cook, Jim, assignor of one-fourth to J. M. and J. E. Herd, one-fourth to A. D. and A. Tallie, and one-fourth to A. D. Tallie, Swink, Okla. Rat-trap. No. 1,163,587; Dec. 7; Gaz. vol. 221; p. 298.
- Cook, John, Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Welding-machine. No. 1,130,258; Mar. 2; Gaz. vol. 212; p. 144.
- Cook, John C. (See Clifford and Cook.)
- Cook, John F., assignor to New Process Make-Ready Company, Kansas City, Mo. Preparing an overlay or make-ready. No. 1,146,928; July 20; Gaz. vol. 216; p. 724.
- Cook, John J., Chicago, Ill. Securing an electrotype-insert in an etched plate. No. 1,148,148; July 27; Gaz. vol. 216; p. 1180.
- Cook, John W., Meyersdale, Pa. Rail-joint. No. 1,132,446; Mar. 16; Gaz. vol. 212; p. 985.
- Cook, Justin B., Tempe, Ariz. Apparatus for sterilizing or cooking canned goods. No. 1,165,757; Dec. 28; Gaz. vol. 221; p. 1182.
- Cook, Lella M., Brooklyn, N. Y. Loose-leaf binder. No. 1,161,619; Nov. 23; Gaz. vol. 220; p. 1263.
- Cook, Nicholas. (See Johnson, Iver, assignor.)
- Cook, O. E. (See Allen, William H., assignor.)
- Cook, Oscar T., Martinsville, Ill. Broom-head. No. 1,138,934; May 11; Gaz. vol. 214; p. 464.
- Cook Railway Signal Company, The. (See Fallek, Nathan, assignor.)
- Cook, Raphael, and O. Lindley, Cosby, Mo. Pump. No. 1,133,009; Mar. 23; Gaz. vol. 212; p. 1241.
- Cook, Stanley S. (See Parsons and Cook.)
- Cook, Thomas, Staleybridge, and G. Durrant, Manchester, England. Apparatus for guiding fabrics into stentering-machines. No. 1,132,562; Mar. 23; Gaz. vol. 212; p. 1075.
- Cook, Thomas C., et al. (See Cook, William J., assignor.)
- Cook, Walter T., Cleveland, Ohio. Fare-box. No. 1,129,552; Feb. 23; Gaz. vol. 211; p. 1136.
- Cook, Wilburn I. (See Bowen and Cook.)
- Cook, Wilder H., Athens, N. Y. Mirror-fastener. No. 1,138,846; May 11; Gaz. vol. 214; p. 435.
- Cook, Willard J., Des Moines, Iowa. Manure-spreader. No. 1,154,236; Sept. 21; Gaz. vol. 218; p. 730.
- Cook, William H., Indianapolis, Ind. Envelop-machine. No. 1,142,402; June 8; Gaz. vol. 215; p. 501.
- Cook, William J., Orange, Ga., assignor of one-tenth to A. F. Cook, Charlerol, one-tenth to T. C. Cook, one-tenth to J. L. Cook, and one-tenth to T. F. and A. S. J. Deakin, Pittsburgh, Pa. Mixing-valve. No. 1,138,628; May 11; Gaz. vol. 214; p. 254.
- Cooke, Clarence C., assignor of forty-nine one hundredths to A. C. Leathers, Howard, Pa. Current-motor. No. 1,131,680; Mar. 16; Gaz. vol. 212; p. 706.
- Cooke, Clayton G., New Haven, Conn., assignor, by mesne assignments, to American Linen Fibre Company, Flax-machine. No. 1,134,671; Apr. 6; Gaz. vol. 213; p. 215.
- Cooke, Dwight I., assignor to Vacuum Car Ventilating Co., Chicago, Ill. Car-ventilating system. No. 1,145,868; July 6; Gaz. vol. 216; p. 312.
- Cooke, Dwight I., assignor to Vacuum Car Ventilating Co., Chicago, Ill. Car-ventilating system. No. 1,145,869; July 6; Gaz. vol. 216; p. 313.
- Cooke, Fred A., assignor of one-fourth to M. L. Stickney, Seattle, Wash. Game apparatus. No. 1,161,452; Nov. 23; Gaz. vol. 220; p. 1205.
- Cooke, George R., Jackson, Mich. Vehicle-top. No. 1,150,811; Aug. 17; Gaz. vol. 217; p. 990.
- Cooke, Samuel, and W. C. Davis, Gorton, Manchester, England. Heel-pad mold. No. 1,140,577; May 25; Gaz. vol. 214; p. 1113.
- Cooke, William E., Harvey, N. D. Corn-harvester. No. 1,165,758; Dec. 28; Gaz. vol. 221; p. 1182.
- Cookingham, De Witt C., and J. H. Hertner, assignors to The Rauch and Lang Carriage Company, Cleveland, Ohio. Automobile running-gear. No. 1,138,732; May 11; Gaz. vol. 214; p. 393.
- Cookson, Charles L., Kansas City, Mo. Baling-press. No. 1,164,992; Dec. 21; Gaz. vol. 221; p. 875.
- Cookson, Charles W., Wahiawa, Hawaii. Pineapple-peeler. No. 1,137,841; May 4; Gaz. vol. 214; p. 42.
- Cool, Noah, near Arcanum, Ohio. Bridge-anchor. No. 1,162,038; Nov. 30; Gaz. vol. 220; p. 1454.
- Coolbaugh, Melville F. and E. H. Quinney, Rapid City, S. D. Producing soluble salts of potassium and aluminum. No. 1,125,007; Jan. 12; Gaz. vol. 210; p. 679.
- Coolbaugh, Melville F., Rapid City, and E. H. Quinney, Pierre, S. D. Producing soluble salts of potassium and aluminum. No. 1,165,154; Dec. 21; Gaz. vol. 221; p. 933.
- Coolbroth, Augusta P., Cambridge, Mass. Garter. No. 1,156,393; Oct. 12; Gaz. vol. 219; p. 397.
- Cooley, Edward H., Takoma Park, Md. Egg-beater. No. 1,155,215; Sept. 28; Gaz. vol. 218; p. 1095.
- Cooley, Francis M. (See Wasson and Cooley.)
- Cooley, Henry B., Kensington, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Drinking-cup. No. 1,148,149; July 27; Gaz. vol. 216; p. 1181.
- Cooley, Henry B., New Britain, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Drinking-cup. No. 1,163,615; Dec. 7; Gaz. vol. 221; p. 308.
- Cooley, Horatio, Walthamstow, England. Race-game apparatus. No. 1,125,818; Jan. 19; Gaz. vol. 210; p. 1004.
- Cooley, Proctor P., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove or furnace. No. 1,162,904; Dec. 7; Gaz. vol. 221; p. 59.
- Cooley, William L., Evanston, and W. F. Bach, Chicago, Ill. Cutting-tool. No. 1,128,294; Feb. 16; Gaz. vol. 211; p. 662.
- Coolidge, Charles S., Troy, Ohio. Clock-support. No. 1,158,448; Nov. 2; Gaz. vol. 220; p. 13.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray target. No. 1,153,290; Sept. 14; Gaz. vol. 218; p. 364.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Vacuum-tube electrode and operating same. No. 1,157,925; Oct. 26; Gaz. vol. 219; p. 1026.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Making composite metal bodies. No. 1,162,339; Nov. 30; Gaz. vol. 220; p. 1560.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Uniting metals. No. 1,162,340; Nov. 30; Gaz. vol. 220; p. 1560.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Composite metal body. No. 1,162,341; Nov. 30; Gaz. vol. 220; p. 1560.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Composite metal body. No. 1,162,342; Nov. 30; Gaz. vol. 220; p. 1560.
- Cooling Tower Co. Inc., The. (See Coffey, Barton H., assignor.)
- Coombs, Arthur H., Chicago, Ill. Apparatus for etching printing-plates. No. 1,147,145; July 20; Gaz. vol. 216; p. 799.
- Coombs, Edgar I., assignor to B. A. Ballou and Company, Inc., Providence, R. I. Bracelet. No. 1,141,614; June 1; Gaz. vol. 215; p. 188.
- Coombs, Frank E., Au Sable Forks, N. Y. Apparatus for the manufacture of acid sulfurous preparations. No. 1,147,376; July 20; Gaz. vol. 216; p. 880.
- Coombs, Frank E., Natick, Mass. Process and apparatus for depurating. No. 1,156,060; Oct. 12; Gaz. vol. 219; p. 282.
- Coombs, James W., Wollaston, Mass., assignor to Penn Rivet Manufacturing Company, Incorporated, Philadelphia, Pa. Rivet-setting machine. No. 1,128,852; Feb. 16; Gaz. vol. 211; p. 853.
- Coombs, John C., Midland Park, N. J. Reed construction for looms. No. 1,146,478; July 13; Gaz. vol. 216; p. 549.
- Coombs, Walter J., Quincy, assignor to Tubular Rivet & Stud Company, Boston, Mass. Lacing hook or stud setting machine. No. 1,141,775; June 1; Gaz. vol. 215; p. 242.
- Coon, Arthur D., Ballston Spa, N. Y. Mail-box. No. 1,139,491; May 18; Gaz. vol. 214; p. 696.
- Coon, Arthur J., Washington, D. C., assignor of one-half to F. M. Willis, Ithaca, N. Y. Machine for automatically wrapping, binding, and tying packages. No. 1,132,164; Mar. 16; Gaz. vol. 212; p. 882.
- Coon, Arthur J., Providence, R. I., assignor of one-half to F. M. Willis, Ithaca, N. Y. Machine for automatically wrapping, binding, and tying packages. No. 1,132,165; Mar. 16; Gaz. vol. 212; p. 882.
- Coon, Ralph W., Houghton, Mich. Grinding device. No. 1,164,474; Dec. 14; Gaz. vol. 221; p. 654.
- Coon, Stanley W., Germantown, N. Y. Automobile-radiator. No. 1,166,327; Dec. 23; Gaz. vol. 221; p. 1384.
- Coon, Uri G., Medina, N. Y. Bread-cutting gage. No. 1,131,333; Mar. 9; Gaz. vol. 212; p. 552.
- Cooney, James E., Pawtucket, R. I. Automatic disinfecter for water-closets. No. 1,161,029; Nov. 23; Gaz. vol. 220; p. 1053.
- Cooney, John J., assignor to Safety Window Company, New York, N. Y. Window. No. 1,124,298; Jan. 12; Gaz. vol. 210; p. 425.
- Cooney, John T., Denver, Colo. Hat-fastener. No. 1,125,478; Jan. 19; Gaz. vol. 210; p. 882.
- Cooney, John T., Denver, Colo. Shoe-lace knitter. No. 1,156,758; Oct. 12; Gaz. vol. 219; p. 524.
- Coons, Lillian M., et al. (See Parr, Webster A., assignor.)
- Cooper, Alexander J., et al. (See Barratt, William T., assignor.)
- Cooper, Alexander J., et al. (See Burke, William W., assignor.)
- Cooper, Andrew P. (See Craft, Clarence H., assignor.)
- Cooper, Annie, et al. (See Barratt, William T., assignor.)
- Cooper, Arthur G., Sydney, New South Wales, Australia. Engine-lubricator. No. 1,158,121; Oct. 26; Gaz. vol. 219; p. 1096.
- Cooper, Charles, assignor of one-third to C. A. Gross, Kansas City, Mo. Compressed-air motor-machine. No. 1,131,913; Mar. 16; Gaz. vol. 212; p. 790.
- Cooper, Charles E., Woodstock, Ill. Button-base. No. 1,147,003; July 20; Gaz. vol. 216; p. 751.
- Cooper, Daniel M., Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Ironing-machine. No. 1,125,968; Jan. 26; Gaz. vol. 210; p. 1088.

Alphabetical list of patentees—Continued.

- Cooper, Daniel M., Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Ironing-machine. No. 1,133,620; Mar. 30; Gaz. vol. 212; p. 1495.
- Cooper, Daniel M., Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Drier. No. 1,137,306; Apr. 27; Gaz. vol. 213; p. 1265.
- Cooper, Daniel M., Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,139,346; May 11; Gaz. vol. 214; p. 607.
- Cooper, Edward, Newton, Mass. Mica-splitting machine. No. 1,155,298; Sept. 28; Gaz. vol. 218; p. 1119.
- Cooper, Edward R. (See Brown, John L., assignor.)
- Cooper, Edward W., Coventry, England. Machine for covering wire, cord, elastic, and the like. No. 1,165,495; Dec. 28; Gaz. vol. 221; p. 1089.
- Cooper, Ellis W., assignor to R. Hoe and Co., New York, N. Y. Plate-holding device. No. 1,128,853; Feb. 16; Gaz. vol. 211; p. 854.
- Cooper, Ellis W., Bloomfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Gripper mechanism. No. 1,132,241; Mar. 16; Gaz. vol. 212; p. 911.
- Cooper, Ellis W., Bloomfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Folding and delivery mechanism. No. 1,133,365; Mar. 30; Gaz. vol. 212; p. 1403.
- Cooper, Ellis W., Bloomfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Bearers. No. 1,140,254; May 18; Gaz. vol. 214; p. 964.
- Cooper, Ellis W., Bloomfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Sheet-delivery mechanism. No. 1,160,264; Nov. 16; Gaz. vol. 220; p. 737.
- Cooper, Ellis W., Bloomfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Sheet-delivery mechanism. No. 1,160,854; Nov. 16; Gaz. vol. 220; p. 947.
- Cooper, Ernest H., and S. B. Earle, London, England. Safety-razor. No. 1,140,664; May 25; Gaz. vol. 214; p. 1143.
- Cooper, Frank W., Cora, W. Va. Cable-hook. No. 1,152,397; Sept. 7; Gaz. vol. 218; p. 6.
- Cooper, Fred W., and A. R. Ewered, Rochester, N. Y. Motor-cycle stand. No. 1,123,490; Jan. 5; Gaz. vol. 210; p. 100.
- Cooper, George D., St. Johns, Mich. Rupture appliance. No. 1,156,979; Oct. 19; Gaz. vol. 219; p. 632.
- Cooper, George W., Hansboro, N. D. Game-board. No. 1,127,594; Feb. 9; Gaz. vol. 211; p. 365.
- Cooper, Harry M., Oak Park, Ill. Self-locking seal. No. 1,160,855; Nov. 16; Gaz. vol. 220; p. 947.
- Cooper, Harry M., Oak Park, Ill. Self-locking seal. No. 1,160,856; Nov. 16; Gaz. vol. 220; p. 947.
- Cooper, Herbert, Brooklyn, N. Y. Universal joint. No. 1,143,671; June 15; Gaz. vol. 215; p. 946.
- Cooper Hewitt Electric Company. (See Hewitt, Peter C., assignor.)
- Cooper Hewitt Electric Company. (See Keyes, Frederick G., assignor.)
- Cooper Hewitt Electric Company. (See Leblanc, Maurice A. E., assignor.)
- Cooper Hewitt Electric Company. (See Pole, Joseph C., assignor.)
- Cooper Hewitt Electric Company. (See Thomas, Percy H., assignor.)
- Cooper, Hillier M., Gainesville, Ga. Book-holder. No. 1,124,394; Jan. 12; Gaz. vol. 210; p. 459.
- Cooper, Howard, Winnipeg, Manitoba, Canada. Centering-form. No. 1,160,382; Nov. 16; Gaz. vol. 220; p. 778.
- Cooper, James, Youngstown, Ohio. Regenerator for heating-furnaces. No. 1,124,593; Jan. 12; Gaz. vol. 210; p. 531.
- Cooper, James A., assignor to The Whitin Machine Works, Whitinsville, Mass. Clearer-cover. No. 1,141,692; June 1; Gaz. vol. 215; p. 215.
- Cooper, James A. and J. C. Dallas, Tex. Lemon-squeezer. No. 1,152,933; Sept. 7; Gaz. vol. 218; p. 203.
- Cooper, James J. (See Hochberg and Cooper.)
- Cooper, James M., McLeansboro, Ill. Culvert-form. No. 1,163,640; Dec. 14; Gaz. vol. 221; p. 361.
- Cooper, Joel C. (See Cooper, James A. and J. C.)
- Cooper, John E., Stratford, London, England. Antifriction mechanism for car-trucks. No. 1,140,300; May 18; Gaz. vol. 214; p. 979.
- Cooper, John J., London, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,131,997; Mar. 16; Gaz. vol. 212; p. 821.
- Cooper, John J., London, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,158,985; Nov. 2; Gaz. vol. 220; p. 200.
- Cooper, John L., Oakdale, Tenn. Rail-joint. No. 1,128,107; Feb. 9; Gaz. vol. 211; p. 547.
- Cooper, John S. (See Hinkle and Cooper.)
- Cooper, Kenneth F., Buffalo, N. Y., assignor to American Cyanamid Company, Nashville, Tenn. Hydrating commercial calcium cyanamid. No. 1,155,797; Oct. 5; Gaz. vol. 219; p. 165.
- Cooper, Leon. (See Adams, Thomas P., assignor.)
- Cooper, Lyman M., Detroit, Mich. Relief-valve. No. 1,163,974; Dec. 14; Gaz. vol. 221; p. 479.
- Cooper Manufacturing Co. (See Burke, James E., assignor.)
- Cooper, Meherjibhoj B. (See Featherstone-Smith and Cooper.)
- Cooper, Nellie R. (See Gemmill, James I., assignor.)
- Cooper, Peter, Ada, Mich. Tail-lamp. No. 1,141,776; June 1; Gaz. vol. 215; p. 242.
- Cooper, Robert W. (See Lee, Cooper, and Meyer.)
- Cooper, Robert W., Dayton, Ky., F. A. Lee, and R. J. Meyer; said Cooper and said Lee assignors to The John Church Company, Cincinnati, Ohio. Cut-out valve for pneumatic instruments. No. 1,131,471; Mar. 9; Gaz. vol. 212; p. 600.
- Cooper, Robert W., Dayton, Ky., F. A. Lee and R. J. Meyer; said Cooper and said Lee assignors to The John Church Company, Cincinnati, Ohio. Pneumatic piano-action. No. 1,133,793; Mar. 30; Gaz. vol. 212; p. 1557.
- Cooper, Samuel W., McCauley, Tex. Combined writing-desk and file-cabinet. No. 1,128,415; Feb. 16; Gaz. vol. 211; p. 702.
- Cooper, Simon, New York, N. Y., assignor to Gorton-Pew Fisheries Company, Gloucester, Mass. Compressor. No. 1,155,798; Oct. 5; Gaz. vol. 219; p. 166.
- Cooper, Thomas B., and P. F. Rob, Baltimore, Md. Flush-valve. No. 1,144,109; June 22; Gaz. vol. 215; p. 1159.
- Cooper, Thomas K., St. Louis, Mo. Cushioning device for foot-levers. No. 1,156,586; Oct. 12; Gaz. vol. 219; p. 464.
- Cooper, Truesdell, and J. H. Brigrance, Denver, Colo. Maternity-gown. No. 1,155,551; Oct. 5; Gaz. vol. 219; p. 80.
- Cooper, Wallace M., Berkeley, Cal. Engine-mounting for aeroplanes. No. 1,142,147; June 8; Gaz. vol. 215; p. 410.
- Cooper, William, Hampton Springs, Fla. Suspension device. No. 1,154,845; Sept. 28; Gaz. vol. 218; p. 967.
- Cooper, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of electric-motor control. No. 1,126,163; Jan. 26; Gaz. vol. 210; p. 1160.
- Cooper, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,140,957; May 25; Gaz. vol. 214; p. 1246.
- Cooper, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Railway-vehicle. No. 1,166,187; Dec. 28; Gaz. vol. 221; p. 1333.
- Cooper, William F., Norwalk, Ohio. Player mechanism for pianos. No. 1,133,710; Mar. 30; Gaz. vol. 212; p. 1528.
- Cooper, William F., Norwalk, Ohio. Motor-regulator. No. 1,134,821; Apr. 6; Gaz. vol. 213; p. 267.
- Cooper, William H., Seattle, Wash. Roller. No. 1,123,851; Jan. 5; Gaz. vol. 210; p. 223.
- Cooper, William W., Harrisburg, Pa. Railway-tie. No. 1,139,753; May 18; Gaz. vol. 214; p. 788.
- Coover, Eva E., et al. (See Patterson, Lewis P., assignor.)
- Cope, Burton G., Orrville, Ohio. Lifting-jack. No. 1,148,890; Aug. 3; Gaz. vol. 217; p. 144.
- Cope, Edge T., assignor to The Buckeye Engine Company, Salem, Ohio. Blue-printing machine. No. 1,134,589; Apr. 6; Gaz. vol. 213; p. 185.
- Copeman Electric Stove Company. (See Copeman, Lloyd G., assignor.)
- Cope, Henry P., assignor to Michigan Stamping Company, Detroit, Mich. Vehicle-check. No. 1,153,607; Sept. 14; Gaz. vol. 218; p. 480.
- Cope, Henry P., assignor to Michigan Stamping Company, Detroit, Mich. Closet-seat. No. 1,164,927; Dec. 21; Gaz. vol. 221; p. 852.
- Cope, Joseph H., Windsor, Colo. Hay-stacker. No. 1,129,646; Feb. 23; Gaz. vol. 211; p. 1168.
- Cope, Thomas J., Philadelphia, Pa. Support for electric conductors. No. 1,129,553; Feb. 23; Gaz. vol. 211; p. 1136.
- Copeland, Robert J. (See Holden and Copeland.)
- Copeland, Wister L. (See Harper, Jesse B., assignor.)
- Copeman, Lloyd G., assignor to Copeman Electric Stove Company, Flint, Mich. Electrical heating unit. No. 1,138,733; May 11; Gaz. vol. 214; p. 393.
- Copeman, Lloyd G., assignor to Copeman Electric Stove Company, Flint, Mich. Electromagnetic switch. No. 1,141,174; June 1; Gaz. vol. 215; p. 30.
- Copeman, Lloyd G., assignor to Copeman Electric Stove Company, Flint, Mich. Electric stove. No. 1,141,175; June 1; Gaz. vol. 215; p. 30.
- Copeman, Lloyd G., assignor to Copeman Electric Stove Company, Flint, Mich. Electrically-heated oven. No. 1,141,176; June 1; Gaz. vol. 215; p. 30.
- Copenhagen, Herman C., Auburn, Wash. Acetylene-gas generator. No. 1,123,691; Jan. 5; Gaz. vol. 210; p. 168.
- Copenhagen, Herman C., Auburn, Wash. Dirt-wagon. No. 1,153,179; Sept. 7; Gaz. vol. 218; p. 286.
- Copithorn, Walter E., Natick, Mass. Automobile-tire. No. 1,136,892; Apr. 20; Gaz. vol. 213; p. 1078.
- Copithorn, Walter E., Natick, Mass. Valve. No. 1,159,475; Nov. 9; Gaz. vol. 220; p. 404.
- Copithorn, Walter E., Natick, Mass. Demountable rim for automobile-wheels. No. 1,160,977; Nov. 16; Gaz. vol. 220; p. 990.
- Copithorn, Walter E., Natick, Mass. Rim for vehicle-wheels. No. 1,165,390; Dec. 28; Gaz. vol. 221; p. 1052.

Alphabetical list of patentees—Continued.

- Copley, Almon W., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical relay. No. 1,135,438; Apr. 13; Gaz. vol. 213; p. 523.
- Copony, Alfred, assignor to W. H. Miner, Chicago, Ill. Making draft-gear yokes. No. 1,128,295; Feb. 16; Gaz. vol. 211; p. 663.
- Copony, Alfred, assignor to W. H. Miner, Chicago, Ill. Making combined cast-steel and wrought-iron yokes. No. 1,128,296; Feb. 16; Gaz. vol. 211; p. 663.
- Copony, Alfred, assignor to W. H. Miner, Chicago, Ill. Yoke for draft-riggings. No. 1,131,040; Mar. 9; Gaz. vol. 212; p. 451.
- Copony, Alfred, assignor to W. H. Miner, Chicago, Ill. Combined cast-steel and wrought-iron yoke. No. 1,131,041; Mar. 9; Gaz. vol. 212; p. 451.
- Copony, Alfred, assignor to W. H. Miner, Chicago, Ill. Single-center-sill draft-riggings. No. 1,137,950; May 4; Gaz. vol. 214; p. 80.
- Coppage, Benjamin D., Wilmington, Del. Felt-whipper. No. 1,145,407; July 6; Gaz. vol. 216; p. 151.
- Coppage, Benjamin D., Wilmington, Del. Non-deflecting roll. No. 1,145,558; July 6; Gaz. vol. 216; p. 203.
- Coppage, Benjamin D., Wilmington, Del. Save-all box. No. 1,145,559; July 6; Gaz. vol. 216; p. 204.
- Coppage, Benjamin D., Wilmington, Del. Shake-head connection. No. 1,154,613; Sept. 28; Gaz. vol. 218; p. 889.
- Coppage, Benjamin D., Wilmington, Del. Suction-box for paper-making machines. No. 1,161,030; Nov. 23; Gaz. vol. 220; p. 1054.
- Coppers, William S., Belleville, Kans. Cap. No. 1,156,980; Oct. 19; Gaz. vol. 219; p. 632.
- Coppridge, Joel A., Richmond, Va. Cooking-stove. No. 1,155,799; Oct. 5; Gaz. vol. 219; p. 166.
- Copps, Michael, and A. B. Crewdson, Charter Oak, Iowa. Blow-out patch. No. 1,165,322; Dec. 21; Gaz. vol. 221; p. 989.
- Coppus Engineering and Equipment Company. (See Coppus, Frans H. C., assignor.)
- Coppus, Frans H. C., assignor to Coppus Engineering and Equipment Company, Worcester, Mass. Device for use in casting turbines. No. 1,128,854; Feb. 16; Gaz. vol. 211; p. 854.
- Corathers, Harley W., Van Wert, Ohio. Harrow attachment for plows. No. 1,132,563; Mar. 23; Gaz. vol. 212; p. 1075.
- Corbell, George S., Burlington, Wis. Gromet. No. 1,145,122; July 6; Gaz. vol. 216; p. 53.
- Corbet, Archer H., Barnes, London, England. Tent. No. 1,155,800; Oct. 5; Gaz. vol. 219; p. 167.
- Corbet, Denys W., assignor, by mesne assignments, to Autosales Gum and Chocolate Company, New York, N. Y. Automatic coin-operated lock. No. 1,154,381; Sept. 21; Gaz. vol. 218; p. 782.
- Corbett, Carrol A., assignor to Corbett-Vanden Bos Carburetor Company, Grand Rapids, Mich. Carburetor. No. 1,163,393; Dec. 7; Gaz. vol. 221; p. 231.
- Corbett-Vanden Bos Carburetor Company. (See Corbett, Carrol A., assignor.)
- Corbin, Douglas H., and A. W. Harris, Birmingham, assignors to Life Targets Limited, London, England. Cinematograph target apparatus. No. 1,125,660; Jan. 19; Gaz. vol. 210; p. 947.
- Corbin, Douglas H., and A. W. Harris, Birmingham, assignors to Life Targets Limited, London, England. Cinematograph target apparatus. No. 1,125,661; Jan. 19; Gaz. vol. 210; p. 947.
- Corbin, Douglas H., and A. W. Harris, Birmingham, assignors to Life Targets Limited, London, England. Cinematograph target apparatus. No. 1,125,662; Jan. 19; Gaz. vol. 210; p. 948.
- Corbin, Elbert A., Philadelphia, Pa. Power-conversion plant. No. 1,123,491; Jan. 5; Gaz. vol. 210; p. 100.
- Corbin, Elfreda J., assignor of one-half to J. Bohmbach, Minneapolis, Minn. Napkin. No. 1,158,182; Oct. 26; Gaz. vol. 219; p. 1117.
- Corbin, John C., Seattle, Wash. Refrigerating apparatus. No. 1,144,642; June 29; Gaz. vol. 215; p. 1369.
- Corby, William S., and J. L. Parsons, Jr., Washington, D. C. Baking-oven. No. 1,138,935; May 11; Gaz. vol. 214; p. 464.
- Corcoran, Catharine F., Williston, N. D. Arm-band. No. 1,164,928; Dec. 21; Gaz. vol. 221; p. 853.
- Corcoran, Cornelius B., assignor to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,127,863; Feb. 9; Gaz. vol. 211; p. 462.
- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,132,166; Mar. 16; Gaz. vol. 212; p. 883.
- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,144,755; June 29; Gaz. vol. 215; p. 1409.
- Corcoran, Edward B., Cincinnati, Ohio. Electric lamp for motor-vehicles. No. 1,125,266; Jan. 19; Gaz. vol. 210; p. 807.
- Corcoran, George L., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Sewing-machine. No. 1,134,033; Mar. 30; Gaz. vol. 212; p. 1637.
- Corcoran, George L., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Thread-controlling mechanism for sewing-machines. No. 1,340,034; Mar. 30; Gaz. vol. 212; p. 1637.
- Corcoran, George L., and G. A. Dobyne, assignors to Champion Shoe Machinery Company, St. Louis, Mo. Guide for sole-sewing machines. No. 1,134,036; Mar. 30; Gaz. vol. 212; p. 1638.
- Corcoran, George L., G. A. Dobyne, and A. R. Schoenky, assignors to Champion Shoe Machinery Company, St. Louis, Mo. Thread-controlling mechanism for sewing-machines. No. 1,134,035; Mar. 30; Gaz. vol. 212; p. 1638.
- Corcoran, John J., New York, N. Y. Menu-card holder. No. 1,144,173; June 22; Gaz. vol. 215; p. 1182.
- Corcoran, Thomas J., Cincinnati, Ohio. Lamp. No. 1,137,464; Apr. 27; Gaz. vol. 213; p. 1322.
- Corday, B. F. (See Jirousek, Joseph F., assignor.)
- Cordeau, Adolphe, Ste. Madeleine, assignor of one-half to J. M. Authier, St. Hilaire, Quebec, Canada. Ditching-plow. No. 1,128,855; Feb. 16; Gaz. vol. 211; p. 854.
- Cordell, Frank N., Webster Groves, Mo. Railway-switch. No. 1,132,242; Mar. 16; Gaz. vol. 212; p. 912.
- Cordell, Frank N., St. Louis county, Mo. Attachment for trap-nests. No. 1,156,589; Oct. 12; Gaz. vol. 219; p. 465.
- Corder, James I., Clarksville, Tenn. Pipe-wrench. No. 1,145,560; July 6; Gaz. vol. 216; p. 204.
- Cordes, Edward C., Cincinnati, Ohio. Joint-anchor. No. 1,165,155; Dec. 21; Gaz. vol. 221; p. 933.
- Cordingley, John W., assignor of one-half to W. Cordingley, Methuen, Mass. Curtain-pole support. No. 1,140,255; May 18; Gaz. vol. 214; p. 964.
- Cordingley, William. (See Cordingley, John W., assignor.)
- Cordova, Horacio de, Habana, Cuba. Sidewalk-skylight. No. 1,130,577; Mar. 2; Gaz. vol. 212; p. 258.
- Cordt, Hugo, Nordenham, Germany. Calculating-machine. No. 1,158,374; Oct. 26; Gaz. vol. 219; p. 1184.
- Core, Frank K., Pleasantville, assignor of one-half to H. J. Core, Knoxville, Iowa. Harness-hanger. No. 1,145,561; July 6; Gaz. vol. 216; p. 204.
- Core, Harry J. (See Core, Frank K., assignor.)
- Corey, Charles W., Malden, Mass. Liquid-server. No. 1,152,607; Sept. 7; Gaz. vol. 218; p. 83.
- Corey, Fred B., Edgewood, Pa. Inspector's gage. No. 1,152,792; Sept. 7; Gaz. vol. 218; p. 151.
- Corey, Fred B., Edgewood, Pa. Indicator for automobile-radiators. No. 1,154,097; Sept. 21; Gaz. vol. 218; p. 684.
- Corey, Fred B., Edgewood, Pa. Lightning-arrester. No. 1,161,195; Nov. 23; Gaz. vol. 220; p. 1113.
- Corey, Harry A. R., Mattapan, Mass. Photographic-film developing and fixing apparatus. No. 1,140,500; May 25; Gaz. vol. 214; p. 1087.
- Corey, Lyle D., Minneapolis, Minn. Blindstitching attachment for sewing-machines. No. 1,163,220; Dec. 7; Gaz. vol. 221; p. 170.
- Corey, William W., assignor to Pratt & Whitney Company, Hartford, Conn. Lubricator. No. 1,152,398; Sept. 7; Gaz. vol. 218; p. 6.
- Corino, Frank, *et al.* (See Boldizzoni and Bosio, assignors.)
- Cork Insert Company, The. (See Custis, Parke H., assignor.)
- Cork Insert Company, The. (See Whitcomb, Lawrence, assignor.)
- Corie, Ross, and G. C. Claar, Colville, Wash. Furnace-lining. No. 1,124,240; Jan. 5; Gaz. vol. 210; p. 357.
- Corlew, Clarence M. (See Scudder and Corlew.)
- Corley, Burley W., Chattanooga, Tenn. Brush. No. 1,130,574; Mar. 2; Gaz. vol. 212; p. 258.
- Corley, John T., Providence, R. I. Pawl-actuator. No. 1,134,516; Apr. 6; Gaz. vol. 213; p. 158.
- Corley, John T., Providence, R. I. Locking device. No. 1,150,999; Aug. 24; Gaz. vol. 217; p. 1112.
- Corliss Carbon Company. (See McDaniel, Alex S., assignor.)
- Cormen, Jeremiah, York, Pa. Strainer for faucets. No. 1,156,274; Oct. 12; Gaz. vol. 219; p. 353.
- Cormier, Philias, New Bedford, Mass. Keyhole-guard. No. 1,133,104; Mar. 23; Gaz. vol. 212; p. 1274.
- Cormode, John P., Chatham, Ontario, Canada. Clevis attachment for draft-eveners. No. 1,142,148; June 8; Gaz. vol. 215; p. 410.
- Corn Products Refining Co. (See Wrede, Hans, assignor.)
- Corn Products Refining Company. (See Jefferies, Frederick L., assignor.)
- Cornbrooks, William A., assignor to Williams, White & Company, Moline, Ill. Punching-machine. No. 1,150,851; Aug. 24; Gaz. vol. 217; p. 1062.
- Cornelius, Benjamin H., Bayard, Iowa. Street-car-head-light shifter. No. 1,144,691; June 29; Gaz. vol. 215; p. 1386.
- Cornelius, Benjamin L., Hutchinson, Kans. Oil-burner tip. No. 1,133,711; Mar. 30; Gaz. vol. 212; p. 1529.
- Cornelius, Charles H., Redwood City, Cal. Charge-forming device. No. 1,152,298; Aug. 31; Gaz. vol. 217; p. 1603.
- Cornell, Alfred, Tonbridge, assignor to F. N. Davidson, London, England. Microscope and telescope. No. 1,128,761; Feb. 16; Gaz. vol. 211; p. 820.

Alphabetical list of patentees—Continued.

- Cornell, Alfred, Tonbridge, and F. N. Davidson, London, England; said Cornell assignor to said Davidson. Microscope apparatus. No. 1,161,848; Nov. 30; Gaz. vol. 220; p. 1388.
- Cornell, Ben H. (See Thompson, Edward L., assignor.)
- Cornell, Charles H., Valentine, Nebr. Rail-fastener. No. 1,130,797; Mar. 2; Gaz. vol. 212; p. 367.
- Cornell, Charles H., Valentine, Nebr. Railway-fastener. No. 1,150,578; Aug. 17; Gaz. vol. 217; p. 911.
- Cornell, Elijah B., *et al.* (See Hattersley and Strub, assignors.)
- Cornell, Elijah B., *et al.* (See Strub, Gustav, assignor.)
- Cornell, Elijah B., and D. Townsend, Philadelphia, Pa. Blast-nozzle. No. 1,123,992; Jan. 5; Gaz. vol. 210; p. 269.
- Cornell, Fred J., Detroit, Mich. Mud-guard support for motor-cycles or like vehicles. No. 1,144,463; June 29; Gaz. vol. 215; p. 1309.
- Cornell, Frederic C., New York, N. Y. Catamenial appliance. No. 1,159,362; Nov. 9; Gaz. vol. 220; p. 363.
- Cornell, George C., Canton, Pa. Folding box. No. 1,148,219; July 27; Gaz. vol. 216; p. 1204.
- Cornell, Ira E., Akron, Ohio. Overcheck-hook. No. 1,139,166; May 11; Gaz. vol. 214; p. 547.
- Cornell, William N., Watertown, N. Y. Apparatus for reducing screenings to pulp. No. 1,150,099; Aug. 17; Gaz. vol. 217; p. 742.
- Cornell, William N., Watertown, assignor of one-half to J. K. Phillips, Massena, N. Y. Apparatus for reducing screenings to pulp. No. 1,150,100; Aug. 17; Gaz. vol. 217; p. 742.
- Cornely, Robert, Paris, France. Embroidering-machine. No. 1,143,945; June 22; Gaz. vol. 215; p. 1099.
- Corner, Wilfred R., Winnipeg, Manitoba, Canada. Line-support. No. 1,132,514; Mar. 16; Gaz. vol. 212; p. 1010.
- Cornet, Darius H. J. (See Poullain and Cornet.)
- Cornett, James M., Kewanee, Ill. Grain-shocker. No. 1,165,650; Dec. 23; Gaz. vol. 221; p. 1144.
- Cornetto, Fred, Washington, Pa. Rail-joint. No. 1,157,510; Oct. 19; Gaz. vol. 219; p. 820.
- Cornfield, Noah, New York, N. Y. Brake-drum for vehicle-wheels. No. 1,135,770; Apr. 13; Gaz. vol. 213; p. 640.
- Cornfield, Noah, New York, N. Y. Vehicle-wheel. No. 1,158,183; Oct. 26; Gaz. vol. 219; p. 1117.
- Cornfield, Noah, New York, N. Y. Vehicle-wheel. No. 1,163,510; Dec. 7; Gaz. vol. 221; p. 271.
- Cornfield, Noah, assignor of one-half to S. T. Harris, New York, N. Y. Vehicle-wheel. No. 1,163,509; Dec. 7; Gaz. vol. 221; p. 270.
- Corning Glass Works. (See Chamberlin, Benjamin D., assignor.)
- Corning Glass Works. (See Churchill, William, assignor.)
- Corning Glass Works. (See Sullivan and Taylor, assignors.)
- Corning, Julia H., Mattoon, Ill. Game. No. 1,136,106; Apr. 20; Gaz. vol. 213; p. 798.
- Cornman, George W. W., assignor to The Brown Instrument Company, Philadelphia, Pa. Electrical instrument. No. 1,166,410; Dec. 28; Gaz. vol. 221; p. 1415.
- Cornman, Ralston H., Columbus, Ohio. Rotary cutter. No. 1,150,662; Aug. 17; Gaz. vol. 217; p. 939.
- Cornwall, Charles, and D. J. Foltz, assignors to The Deming Company, Salem, Ohio. Spraying-machine. No. 1,128,856; Feb. 16; Gaz. vol. 211; p. 854.
- Cornwall, Frederick R., St. Louis, Mo. Adding attachment for type-writing machines. No. 1,155,642; Oct. 5; Gaz. vol. 219; p. 110.
- Cornwall, Frederick R., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Pulverizer. No. 1,144,352; June 29; Gaz. vol. 215; p. 1273.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Printing. No. 1,124,594; Jan. 12; Gaz. vol. 210; p. 532.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Typographic machine. No. 1,126,618; Jan. 26; Gaz. vol. 210; p. 1326.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Planographic-printing apparatus. No. 1,127,736; Feb. 9; Gaz. vol. 211; p. 415.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Producing printing-surfaces and printing-forms. No. 1,127,737; Feb. 9; Gaz. vol. 211; p. 416.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Producing printing-types. No. 1,128,267; Feb. 9; Gaz. vol. 211; p. 602.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Means for operating upon character-bearing surfaces. No. 1,130,798; Mar. 9; Gaz. vol. 212; p. 367.
- Cornwall, George R., Rye, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Paper-splitting machine. No. 1,165,074; Dec. 21; Gaz. vol. 221; p. 903.
- Cornwall, George R., Mount Vernon, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Machine for making controllers or composing-ribbons. No. 1,136,080; Apr. 20; Gaz. vol. 213; p. 788.
- Cornwall, John B., assignor to Barnard and Leas Manufacturing Company, Moline, Ill. Machine for finishing, cleaning, and polishing rice. No. 1,132,447; Mar. 16; Gaz. vol. 212; p. 985.
- Cornwall, John B., assignor to Barnard and Leas Manufacturing Company, Moline, Ill. Angle-mill. No. 1,144,174; June 22; Gaz. vol. 215; p. 1182.
- Cornwell, Frank S. (See Porter and Cornwell.)
- Cornwell, William O., Jr., Texline, Tex. Seat arrangement for automobiles. No. 1,146,849; July 20; Gaz. vol. 216; p. 695.
- Corona Typewriter Company. (See Hazen and Petermann, assignors.)
- Corona Typewriter Company. (See Petermann, Otto, assignor.)
- Corona Typewriter Company. (See Rose, Frank S., assignor.)
- Corr, James, New York, N. Y. Bread sponge and dough raiser. No. 1,152,299; Aug. 31; Gaz. vol. 217; p. 1604.
- Corrall, Herbert, Parkview, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Sewing-machine driving device. No. 1,147,377; July 20; Gaz. vol. 216; p. 881.
- Corrall, Herbert, Helensburgh, and J. M. Forbes, Glasgow, Scotland, assignors to The Singer Manufacturing Company. Embroidery-sewing machine. No. 1,159,901; Nov. 9; Gaz. vol. 220; p. 557.
- Correa, John S., Denver, Colo. Ornamentation. No. 1,141,317; June 1; Gaz. vol. 215; p. 82.
- Correll, Friedrich, Berlin, Germany. Printing device for cash-registers or cash-delivery apparatus. No. 1,141,693; June 1; Gaz. vol. 215; p. 215.
- Correll, Friedrich, Mannheim, Germany. Coin-paying-out machine. No. 1,160,580; Nov. 16; Gaz. vol. 220; p. 848.
- Corretti, Emilio, New York, N. Y. Non-refillable bottle. No. 1,147,004; July 20; Gaz. vol. 216; p. 751.
- Correy, John. (See Baumer and Correy.)
- Corrigan, Thomas E., Chicago, Ill. Switch-stand. No. 1,147,212; July 20; Gaz. vol. 216; p. 824.
- Corrugated Bar Company. (See Lindau, Alfred E., assignor.)
- Corrugated Bar Company. (See McCarty, Ralph, assignor.)
- Corrugated Paper Patents Co. (See Swift, George W., Jr., assignor.) (Reissue.)
- Corrugated Veneer Packing Products Company. (See Flipse, Louis F., assignor.)
- Corsa, Howard P., Bingham Canyon, Utah. Mine-drill support. No. 1,125,480; Jan. 19; Gaz. vol. 210; p. 882.
- Corser, John B., Scranton, Pa. Attachment for motor-vehicles. No. 1,148,759; Aug. 3; Gaz. vol. 217; p. 100.
- Corson, Fred L., Rochester, N. H. Innersole and reinforcing-strip therefor. No. 1,147,787; July 27; Gaz. vol. 216; p. 1050.
- Corthaus, Albert, Milwaukee, Wis. Drinking-fount. No. 1,133,105; Mar. 23; Gaz. vol. 212; p. 1275.
- Corthell, Fred H., assignor to E. R. Hills, Chicago, Ill. Chronometer-movement. No. 1,164,703; Dec. 21; Gaz. vol. 221; p. 774.
- Corthell, William M., Chicago, Ill. Railway mail device. No. 1,123,692; Jan. 5; Gaz. vol. 210; p. 168.
- Cortines, Ernest J., Dallas, Tex. Handle-bar. No. 1,140,119; May 18; Gaz. vol. 214; p. 919.
- Corwin, Elmer R., assignor, by mesne assignments, to Frank B. Cook Company, Chicago, Ill. Telephony. No. 1,141,937; June 8; Gaz. vol. 215; p. 335.
- Corwin, Elmer R., assignor, by mesne assignments, to Frank B. Cook Company, Chicago, Ill. Telephone-exchange system. No. 1,161,196; Nov. 23; Gaz. vol. 220; p. 1113.
- Corwin, Frank E., Toledo, Ohio. Oil-purifying apparatus. No. 1,161,197; Nov. 23; Gaz. vol. 220; p. 1114.
- Corwin, Frank R. (See Klepinger and Corwin.)
- Corwin, Lawrence O., and W. M. Arnold, Keene, Tex. Spring-wheel. No. 1,138,194; May 4; Gaz. vol. 214; p. 166.
- Cory, Jerome, Newcastle, Ind. Furnace. No. 1,124,110; Jan. 5; Gaz. vol. 210; p. 310.
- Cory, Lowrie D. (See Harris, Nathaniel A., assignor.)
- Cosad, Albert B., and C. E. Wise, Oakland, Cal. Dental saliva-tube. No. 1,124,299; Jan. 12; Gaz. vol. 210; p. 426.
- Cosby, Eric L. H., Deal, England. Brush. No. 1,125,068; Jan. 19; Gaz. vol. 210; p. 735.
- Coseo, Frederick C., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electric locomotive. No. 1,124,211; Jan. 5; Gaz. vol. 210; p. 346.
- Coseo, Frederick C., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Liquid-fuel tank. No. 1,132,833; Mar. 23; Gaz. vol. 212; p. 1176.
- Coseo, Frederick C., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Support for electric trolley mechanism. No. 1,142,935; June 15; Gaz. vol. 215; p. 724.
- Coseo, Frederick C., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Electric locomotive and cable-reeling mechanism. No. 1,160,857; Nov. 16; Gaz. vol. 220; p. 948.
- Coseznza, Nazzareno, *et al.* (See Mecco, Canio, assignor.)

Alphabetical list of patentees—Continued.

- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,164,784; Dec. 21; Gaz. vol. 221; p. 802.
- Cosgrove, Joseph J., Philadelphia, Pa. Water-closet connection. No. 1,151,087; Aug. 24; Gaz. vol. 217; p. 1142.
- Cosper, James M., Bessemer, Ala. Blast-furnace bell. No. 1,164,929; Dec. 21; Gaz. vol. 221; p. 853.
- Cosper, William P., Chicago, Ill. Practice type-writer. No. 1,163,322; Dec. 7; Gaz. vol. 221; p. 205.
- Coss, Frank, Greencastle, Ind. Article of kitchen furniture with ironing-board attachment. No. 1,147,788; July 27; Gaz. vol. 216; p. 1050.
- Coss, James C., Detroit, Mich. Vehicle bow-socket. No. 1,141,527; June 1; Gaz. vol. 215; p. 158.
- Coss, Wilbur, and W. Stockhill, Glassport, Pa. Door-hanger. No. 1,154,001; Sept. 21; Gaz. vol. 218; p. 650.
- Cossar, Thomas, Otley, England. Flat-bed web-printing machine. No. 1,147,707; July 27; Gaz. vol. 216; p. 1023.
- Cossar, Thomas, Otley, England. Flat-bed web-printing machine. No. 1,149,501; Aug. 10; Gaz. vol. 217; p. 463.
- Cosseboom, Robert J., assignor of one-fourth to D. C. Sindlinger and one-fourth to C. A. Niles, Buena Vista, Colo. Double-acting pipe-wrench. No. 1,150,663; Aug. 17; Gaz. vol. 217; p. 939.
- Cossey, Myron, assignor to Reliance Ball Bearing Door Hanger Company, New York, N. Y. Gravity door-lock. No. 1,130,150; Mar. 2; Gaz. vol. 212; p. 107.
- Costa, Anthony M. (See Spemulli and Manupelli, assignors.)
- Costa, Louis, Philadelphia, Pa. Nutcracker. No. 1,123,852; Jan. 5; Gaz. vol. 210; p. 223.
- Costello, Bartley P. (See Duffy and Costello.)
- Costello, Joseph, Atlantic City, N. J. Hat-guard. No. 1,153,291; Sept. 14; Gaz. vol. 218; p. 364.
- Costello, Joseph A. (See Bidle and Costello.)
- Costello, Richard A., Chicago Heights, Ill. Blackboard-eraser. No. 1,153,894; Sept. 21; Gaz. vol. 218; p. 615.
- Costello, Richard A., Chicago Heights, Ill. Blackboard-eraser. No. 1,157,369; Oct. 19; Gaz. vol. 219; p. 771.
- Costello, Richard R., Logansport, Ind. Standard for wagons. No. 1,123,249; Jan. 5; Gaz. vol. 210; p. 16.
- Costello, Thomas J., Warren, Ohio. Coupling. No. 1,145,562; July 6; Gaz. vol. 216; p. 205.
- Costlow, Eben H., Altoona, Pa. Caster. No. 1,139,105; May 11; Gaz. vol. 214; p. 526.
- Costmeter Company, The. (See Quigley, John T., assignor.)
- Cota, Paul and W. Langdon, Alberta, Canada. Shocking-machine. No. 1,130,799; Mar. 9; Gaz. vol. 212; p. 368.
- Cota, Simon P., Portland, Oreg. Cut-out and release for air-brake apparatus. No. 1,164,259; Dec. 14; Gaz. vol. 221; p. 577.
- Cota, Walter. (See Cota, Paul and W.)
- Cotten, Herbert M. (See Earl, John L., assignor.)
- Cotter, Edward J., assignor of one-half to J. W. Toy and one-fourth to H. Kendall, Philadelphia, Pa. Spinning-machine. No. 1,146,238; July 13; Gaz. vol. 216; p. 463.
- Cotter, John. (See Kinch, Arthur J., assignor.)
- Cottingham, C. J., et al. (See Lawrence, Daniel O., assignor.)
- Cottingham, Lewis, Delta, Ohio. Coupling for brake and transmission rods. No. 1,157,618; Oct. 19; Gaz. vol. 219; p. 854.
- Cottingham, T. J., et al. (See Lawrence, Daniel O., assignor.)
- Cottle, Thomas W., Topeka, Kans. Cabinet scraper-holder. No. 1,135,361; Apr. 13; Gaz. vol. 213; p. 495.
- Cotton, Charles C., H. C. Kennedy, and R. King, assignors to J. & T. M. Greeves Limited and York Street Flax Spinning Company Limited, Belfast, Ireland. Hacking-machine for flax and other long-staple fibers. No. 1,132,448; Mar. 16; Gaz. vol. 212; p. 985.
- Cotton, James H., Beaver, Pa. Nut-lock. No. 1,157,678; Oct. 26; Gaz. vol. 219; p. 941.
- Cotton, James H., Beaver, assignor to Orenstein-Arthur Koppel Company, Koppel, Pa. Apparatus for dumping cars. No. 1,145,408; July 6; Gaz. vol. 216; p. 151.
- Cotton Machinery Company, The. (See Brown and Westlin, assignors.)
- Cotton, Walter H., Chicago, Ill., assignor to Union Draft Gear Company. Draft-gear. No. 1,158,449; Nov. 2; Gaz. vol. 220; p. 14.
- Cotton, William H., Salem, N. Y. Fountain. No. 1,130,800; Mar. 9; Gaz. vol. 212; p. 369.
- Cottrell, Charles P., Westerly, R. I., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Printing mechanism. No. 1,130,259; Mar. 2; Gaz. vol. 212; p. 145.
- Cottrell, Charles P., Westerly, R. I., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Manufacture of electrolyte-plates. No. 1,139,259; May 11; Gaz. vol. 214; p. 578.
- Cottrell, Charles P., Westerly, R. I., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Offset mechanism for printing-presses. No. 1,148,010; July 27; Gaz. vol. 216; p. 1129.
- Cottrell, Charles P., Westerly, R. I., assignor, by mesne assignments, to C. P. Cottrell & Sons Company, New York, N. Y. Antismut-web for printed sheets. No. 1,156,669; Oct. 12; Gaz. vol. 219; p. 495.
- Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,126,405; Jan. 26; Gaz. vol. 210; p. 1246.
- Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,126,406; Jan. 26; Gaz. vol. 210; p. 1246.
- Cottrell, Frederick G., Berkeley, and H. A. Burns, Oakland, assignors to International Precipitation Company, San Francisco, Cal. Synchronous electrical contact-maker. No. 1,143,175; June 15; Gaz. vol. 215; p. 808.
- Cottrell, William A., Newport, R. I. Cover for receptacles. No. 1,124,395; Jan. 12; Gaz. vol. 210; p. 459.
- Couch, Buel. (See Kneeder, John D., assignor.)
- Couch-Dean Corporation. (See Couch, Elbert L., assignor.)
- Couch, Elbert L., assignor to Couch-Dean Corporation, Hartford, Conn. Cleaning articles. No. 1,150,101; Aug. 17; Gaz. vol. 217; p. 742.
- Couch, Elbert L., assignor to The Couch-Dean Corporation, Incorporated, Hartford, Conn. Apparatus for cleaning articles. (Reissue.) No. 14,007; Nov. 9; Gaz. vol. 220; p. 633.
- Couch, Leonard. (See Smith, John A., assignor.)
- Couch, Samuel H., W. W. Henry, Wollaston, and A. E. Stevens, assignors to S. H. Couch Co., Inc., Atlantic, Mass. Annunciator-drop. No. 1,134,996; Apr. 13; Gaz. vol. 213; p. 370.
- Couch, T. L. (See Parsons, George H., assignor.)
- Coughenour, Allen J., Fort Leavenworth, Kans. Tuning device for wireless-telegraph systems. No. 1,127,738; Feb. 9; Gaz. vol. 211; p. 416.
- Coughenour, Allen J., Kansas City, Mo. Egg and butter carrier. No. 1,148,958; Aug. 3; Gaz. vol. 217; p. 167.
- Coughenour, Allen J., Kansas City, Mo. Egg-case. No. 1,163,394; Dec. 7; Gaz. vol. 221; p. 231.
- Coughlin, John G., Dorchester, assignor to F. McGrath, Boston, Mass. Toggle. No. 1,150,343; Aug. 17; Gaz. vol. 217; p. 829.
- Coughlin, Joseph D., Dorchester, assignor, by mesne assignments, to Federal Manufacturing Company, Boston, Mass. Toggle. No. 1,165,759; Dec. 28; Gaz. vol. 221; p. 1183.
- Coughlin, Michael, Philadelphia, Pa. Try-square. No. 1,151,925; Aug. 31; Gaz. vol. 217; p. 1475.
- Coughlin, Thomas, New York, N. Y. Level. No. 1,133,936; Mar. 30; Gaz. vol. 212; p. 1605.
- Coughtry, John W. (See Lipe and Coughtry.)
- Coughtry, Stella S., administratrix. (See Lipe and Coughtry.)
- Couldery, Guy A., et al. (See Butler, George H., assignor.)
- Cuall, Thomas C. (See McLean and Coull.)
- Coulombe, Joseph C., Northfield, Vt. Noiseless gun. No. 1,140,578; May 25; Gaz. vol. 214; p. 1113.
- Coulson, Willis, Mace, Idaho. Chuck for drills. No. 1,153,033; Sept. 7; Gaz. vol. 218; p. 238.
- Coulston, Earl V., Cleveland, Ohio. Stove. No. 1,152,793; Sept. 7; Gaz. vol. 218; p. 151.
- Coulston, Harry, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Removing stockings from stocking-boards. No. 1,141,777; June 1; Gaz. vol. 215; p. 242.
- Coulston, Harry, and W. M. Schwartz, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Machine for removing stockings from forms. No. 1,126,619; Jan. 26; Gaz. vol. 210; p. 1326.
- Coulston, Harry, and W. M. Schwartz, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Means for removing stockings from forms. No. 1,141,778; June 1; Gaz. vol. 215; p. 243.
- Coultras, Thomas and T. I., Pittsburgh, Pa. Hot-blast stove. No. 1,161,031; Nov. 23; Gaz. vol. 220; p. 1054.
- Coultras, Thomas I. (See Coultras, Thomas and T. I.)
- Coulter, Harry M., Springfield, Mass. Carbureter. No. 1,125,069; Jan. 19; Gaz. vol. 210; p. 735.
- Coulter, Leonard B., assignor to The Carborundum Company, Niagara Falls, N. Y. Crystalline fused alumina and making the same. No. 1,161,620; Nov. 23; Gaz. vol. 220; p. 1263.
- Coulter, William W., Garrison, N. D. Traction-wheel. No. 1,155,704; Oct. 5; Gaz. vol. 219; p. 132.
- Coultrap, McKendree W., Naperville, Ill. Astronomical globe. No. 1,148,891; Aug. 3; Gaz. vol. 217; p. 144.
- Council, Connie B., Philadelphia, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Holddown. No. 1,129,074; Feb. 23; Gaz. vol. 211; p. 968.
- Counter, John, Elizabeth, N. J. Watch and clock holding case. No. 1,154,382; Sept. 21; Gaz. vol. 218; p. 783.
- Countryman, Winne, et al. (See Hadcock, Carl, assignor.)
- Coup, Merle, Cleveland, Ohio. Manifold outlet. No. 1,156,888; Oct. 19; Gaz. vol. 219; p. 599.
- Courembis, Peter, New York, N. Y. Expanding wrench or tool. No. 1,164,704; Dec. 21; Gaz. vol. 221; p. 774.
- Courlaender, Bernard, Jr., assignor of one-third to M. Rosenbaum and one-third to J. A. Murphey, Philadelphia, Pa. Horseshoe. No. 1,134,074; Mar. 30; Gaz. vol. 212; p. 1650.

Alphabetical list of patentees—Continued.

- Courmettes, Henry A., New York, N. Y. Bifocal lens and making the same. No. 1,160,383; Nov. 16; Gaz. vol. 220; p. 778.
- Courson, James L., assignor of one-half to T. D. Evans, Barberton, Ohio. Flash-light apparatus. No. 1,159,179; Nov. 2; Gaz. vol. 220; p. 267.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,123,853; Jan. 5; Gaz. vol. 210; p. 223.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,131,472; Mar. 9; Gaz. vol. 212; p. 600.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,149,733; Aug. 10; Gaz. vol. 217; p. 548.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,156,670; Oct. 12; Gaz. vol. 219; p. 495.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,161,032; Nov. 23; Gaz. vol. 220; p. 1054.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,162,574; Nov. 30; Gaz. vol. 220; p. 1638.
- Courson, Oliver H., Memphis, Tenn. Guard for wood-working machinery. No. 1,154,098; Sept. 21; Gaz. vol. 218; p. 684.
- Court, Edward, Wakefield, England. Propulsion of ships. No. 1,161,453; Nov. 23; Gaz. vol. 220; p. 1206.
- Courtaulds Limited. (See Linfoot, Maurice, assignor.)
- Courtice, Richard W. (See Taylor, Charles H., assignor.)
- Courtine, Benjamin F. A., Maisons-Alfort, France. Vermicelli-folding machine. No. 1,143,509; June 15; Gaz. vol. 215; p. 924.
- Courtine, Benjamin F. A., Maisons-Alfort, France. Die for forming plastic material into threads or ribbons. No. 1,143,510; June 15; Gaz. vol. 215; p. 925.
- Courtland, William A., Brooklyn, N. Y., assignor to American Lin Company, Waterbury, Conn. Machine for feeding safety-pin shields. No. 1,141,105; June 1; Gaz. vol. 215; p. 6.
- Courtney, Cyrus W., Grants Pass, Oreg. Subirrigated flower and lawn box. No. 1,129,554; Feb. 23; Gaz. vol. 211; p. 1136.
- Courtney, John N., *et al.* (See McCoy, Elijah, assignor.)
- Courtney, Joseph H., Magdalena, N. Mex. Wire-stripper. No. 1,131,473; Mar. 9; Gaz. vol. 212; p. 600.
- Courtois, Charles A., assignor of one-half to E. G. Zaig, New York, N. Y. Fastener. No. 1,135,439; Apr. 13; Gaz. vol. 213; p. 523.
- Courville, Joseph, Detroit, Mich., assignor, by mesne assignments, to Bush and Lane Piano Company, Chicago, Ill. Pneumatic action. No. 1,164,632; Dec. 21; Gaz. vol. 221; p. 749.
- Cousin, Henri, Paris, France. Electromagnetic device for notifying and recording the passing of signals at danger. No. 1,139,347; May 11; Gaz. vol. 214; p. 608.
- Cousins, George, Oswego, N. Y. Wall-molding structure. No. 1,149,032; Aug. 3; Gaz. vol. 217; p. 193.
- Cousland, Hugh, Singer, Clydebank, Scotland. Sewing-machine. No. 1,153,176; Sept. 7; Gaz. vol. 218; p. 285.
- Coutagne, Georges, Lyon, France. Electric furnace intended chiefly for the manufacture of nitrils. No. 1,158,899; Nov. 2; Gaz. vol. 220; p. 172.
- Coutant, Jay G., assignor to W. M. Simpson, Chicago, Ill. Short-flame method of burning pulverized fuel. No. 1,149,734; Aug. 10; Gaz. vol. 217; p. 548.
- Coutant, Oscar Z., *et al.* (See Bell, Clinton L., assignor.)
- Coutelle, Carl, and A. Moré, Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Metal salts of polymethylenesimino acids. No. 1,150,579; Aug. 17; Gaz. vol. 217; p. 911.
- Couture, John B., Fall River, Mass. Forming device. No. 1,132,074; Mar. 16; Gaz. vol. 212; p. 849.
- Coventry Ordnance Works, The. (See Bacon and Mansell, assignors.)
- Cover, Owen C., Goshen, Ind. Hydropneumatic water system. No. 1,129,334; Feb. 23; Gaz. vol. 211; p. 1059.
- Coverdell, Grover F., Council Bluffs, Iowa, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,152,934; Sept. 7; Gaz. vol. 218; p. 204.
- Covert, Edward J., Bay City, Mich. Drinking-cup. No. 1,127,739; Feb. 9; Gaz. vol. 211; p. 417.
- Covert, Frank M. (See Pitts, Hood, assignor.)
- Covert, Fred W., assignor to Covert Manufacturing Company, Watervliet, N. Y. Coupling member for home-fasteners and the like. No. 1,149,248; Aug. 10; Gaz. vol. 217; p. 373.
- Covert Manufacturing Company. (See Baxter, John B., assignor.)
- Covert Manufacturing Company. (See Covert, Fred W., assignor.)
- Covert, Stanley S., Montclair, N. J., assignor to Watertite Drain & Scupper Co., Inc., New York, N. Y. Water-escape for buildings. No. 1,143,946; June 22; Gaz. vol. 215; p. 1099.
- Covit, John A., New York, N. Y. Making electric-light streamers. No. 1,161,454; Nov. 23; Gaz. vol. 220; p. 1206.
- Cowan, Charles E. (See Chapman and Cowan.)
- Cowan, Edward H., East Cleveland, Ohio. Concrete-mixer. No. 1,154,383; Sept. 21; Gaz. vol. 218; p. 783.
- Cowan, George L., East Ryegate, Vt. Shaft-collar. No. 1,124,707; Jan. 12; Gaz. vol. 210; p. 572.
- Cowan, George L., East Ryegate, Vt. Slitting mechanism. No. 1,134,590; Apr. 6; Gaz. vol. 213; p. 185.
- Cowan, George L., East Ryegate, Vt. Paper-slitter. No. 1,162,040; Nov. 30; Gaz. vol. 220; p. 1455.
- Cowan, William, Pittsfield, Mass. Composition floor-covering. No. 1,140,958; May 25; Gaz. vol. 214; p. 1247.
- Cowburn, Thomas, Churchdown, near Cheltenham, England. Incubator. No. 1,137,582; Apr. 27; Gaz. vol. 213; p. 1361.
- Cowcher, George, Wimbledon, England. Electric ignition apparatus for internal-combustion engines. No. 1,126,407; Jan. 26; Gaz. vol. 210; p. 1247.
- Cowdrey, Charley F., *et al.* (See Farnum, William C., assignor.)
- Cowdrey, Henry E., *et al.* (See Farnum, William C., assignor.)
- Cowdrey, Robert H., Chicago, Ill. Pull or control box. No. 1,140,878; May 25; Gaz. vol. 214; p. 1218.
- Cowell, Burr S. (See Franklin and Cowell.)
- Cowell, Charles B. (See Cowell, Don F. and C. B.)
- Cowell, Don F. and C. B., Denver, Colo. Rain and snow shield for vehicles. No. 1,155,705; Oct. 5; Gaz. vol. 219; p. 133.
- Cowell, Ivan G., assignor to J. T. Hunter, Long Beach, Cal. Gas floor-furnace. No. 1,133,460; Mar. 30; Gaz. vol. 212; p. 1436.
- Cowell, John R. (See Black and Teare, assignors.)
- Cowell, John W., assignor of one-third to R. Karwiese, Chicago, Ill. Oil-can. No. 1,152,709; Sept. 7; Gaz. vol. 218; p. 121.
- Cowell, Marcus R., Minneapolis, Minn. Draft device. No. 1,123,993; Jan. 5; Gaz. vol. 210; p. 269.
- Cowell, Marcus R., Minneapolis, Minn. Combined horse collar and hames. No. 1,164,071; Dec. 14; Gaz. vol. 221; p. 514.
- Cowell, William B., Catford, England. Apparatus for use when paving roads and the like. No. 1,157,297; Oct. 19; Gaz. vol. 219; p. 745.
- Cowen, David. (See Goodman and Cowen.)
- Cowen, Joshua L., New York, N. Y. Toy track. No. 1,152,489; Sept. 7; Gaz. vol. 218; p. 39.
- Cowen, Joshua L., New York, N. Y. Toy-rail joint. No. 1,152,490; Sept. 7; Gaz. vol. 218; p. 39.
- Cowey, Leonard E., Kew Gardens, England. Variable-speed friction-gearing. No. 1,124,111; Jan. 5; Gaz. vol. 210; p. 310.
- Cowgill, Orph W., assignor of twelve one-hundredths to J. Bongner, twelve one-hundredths to O. F. Stifel, twelve one-hundredths to L. H. Tiemann, twelve one-hundredths to A. G. Solari, and twelve one-hundredths to The Envelope Manufacturing Company, St. Louis, Mo. Paper-feeding mechanism. No. 1,154,375; Apr. 6; Gaz. vol. 213; p. 106.
- Cowherd, Moses G., Sulphur, Ky. Nut-lock. No. 1,151,000; Aug. 24; Gaz. vol. 217; p. 1113.
- Cowie, Edward P., Sparta, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,123,492; Jan. 5; Gaz. vol. 210; p. 100.
- Cowles, Alfred H., assignor to The Electric Smelting and Aluminum Company, Seward, N. J. Making alkali-silico-aluminate. No. 1,123,693; Jan. 5; Gaz. vol. 210; p. 169.
- Cowles, Alfred H., assignor to The Electric Smelting and Aluminum Company, Seward, N. J. Rendering available the phosphoric acid in phosphate-rocks. No. 1,126,408; Jan. 26; Gaz. vol. 210; p. 1247.
- Cowles, Edward P., Sparta, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,165,496; Dec. 28; Gaz. vol. 221; p. 1090.
- Cowles, Harry S., assignor of one-half to R. R. Cowles, Chicago, Ill. Game apparatus. No. 1,164,993; Dec. 21; Gaz. vol. 221; p. 876.
- Cowles, John T., Chicago, Ill. Pocket guard and alarm. No. 1,128,230; Feb. 9; Gaz. vol. 211; p. 588.
- Cowles, Rolla R. (See Cowles, Harry S., assignor.)
- Cowley, James T., Boston, Mass., assignor to The Lamson Company, Newark, N. J. Elevator. No. 1,123,493; Jan. 5; Gaz. vol. 210; p. 101.
- Cowley, James T., Boston, Mass., assignor to The Lamson Company, Newark, N. J. Pneumatic ammunition elevating and loading device. No. 1,148,077; July 27; Gaz. vol. 216; p. 1154.
- Cowley, James T., Boston, Mass., assignor to The Lamson Company, Newark, N. J. Pneumatic ammunition-conveying apparatus. No. 1,148,078; July 27; Gaz. vol. 216; p. 1155.
- Cowley, James T., Boston, Mass., assignor to The Lamson Company, Newark, N. J. Pneumatic ammunition-conveying apparatus. No. 1,148,079; July 27; Gaz. vol. 216; p. 1155.
- Cowley, James T., Minot, Mass., assignor to The Lamson Company, Newark, N. J. Pneumatic ammunition-conveying apparatus. No. 1,148,080; July 27; Gaz. vol. 216; p. 1156.
- Cowley, James T., Minot, Mass., assignor to The Lamson Company, Newark, N. J. Ammunition-holst. No. 1,148,081; July 27; Gaz. vol. 216; p. 1156.
- Cowley, James T., Scltuate, assignor to The Lamson Company, Boston, Mass. Pneumatic ammunition-conveying system. No. 1,148,082; July 27; Gaz. vol. 216; p. 1156.

Alphabetical list of patentees—Continued.

- Cowley, James T., Scituate, assignor to The Lamson Company, (formerly Lamson Consolidated Store Service Company,) Boston, Mass. Table for mail and the like. No. 1,154,562; Sept. 21; Gaz. vol. 218; p. 842.
- Cowlshaw, John H., New Britain, Conn. Folding bonnet-box. No. 1,148,502; Aug. 3; Gaz. vol. 217; p. 6.
- Cown, Samuel M. (See Smith, Taylor J., assignor.)
- Cowper-Coles, Sherard O., Westminster, London, England. Deposition of iron. No. 1,127,966; Feb. 9; Gaz. vol. 211; p. 498.
- Cowper, John B., Bayonne, N. J. Oil-burner. No. 1,144,816; June 29; Gaz. vol. 215; p. 1431.
- Cox, Albert D., Winterville, N. C. Fertilizer-distributor. No. 1,157,370; Oct. 19; Gaz. vol. 219; p. 771.
- Cox, Albert F., Chicago, Ill. Hair-drying comb. No. 1,153,196; Sept. 14; Gaz. vol. 218; p. 331.
- Cox, Albert L., *et al.* (See Hammack, Martin V., assignor.)
- Cox, Albert S., Grantwood, N. J. Military uniform or the like. No. 1,139,642; May 18; Gaz. vol. 214; p. 749.
- Cox, Allen H. (See Miller and Cox.)
- Cox, Alvin L., Elizabethtown, Ky. Washing apparatus. No. 1,132,449; Mar. 16; Gaz. vol. 212; p. 986.
- Cox, Alvin L., Elizabethtown, Ky. Corn-shock harvester. No. 1,162,981; Dec. 7; Gaz. vol. 221; p. 86.
- Cox, Arthur, Olton, near Birmingham, England. Carburetor. No. 1,143,511; June 15; Gaz. vol. 215; p. 925.
- Cox, Charles C., assignor of one-half to F. M. Thompson, Pulaski, Va. Train-stopping apparatus. No. 1,135,881; Apr. 13; Gaz. vol. 213; p. 679.
- Cox, Charles E., Eaton, Ohio. Multiple lightning-arrester. No. 1,124,865; Jan. 12; Gaz. vol. 210; p. 629.
- Cox, Charles W., Winchester, Ind. Gate. No. 1,156,275; Oct. 12; Gaz. vol. 219; p. 353.
- Cox, Charley M., Burr, Ky. Rail-joint. No. 1,158,789; Nov. 2; Gaz. vol. 220; p. 134.
- Cox, Dudley A., administrator. (See Hadley, Artemus N.)
- Cox, Ezekiel B., Newtown, Pa., assignor to Newtown Cut Wheat Cereal and Trading Company. Food cereal and making same. No. 1,130,575; Mar. 2; Gaz. vol. 212; p. 258.
- Cox, John H., Hot Springs, Ark. Tie and rail-holder. No. 1,127,595; Feb. 9; Gaz. vol. 211; p. 366.
- Cox, John R., assignor to The William Galloway Company, Waterloo, Iowa. Resilient neck-bearing. No. 1,135,502; Apr. 13; Gaz. vol. 213; p. 546.
- Cox, John S., Buffalo, N. Y. Combustion apparatus. No. 1,140,802; May 25; Gaz. vol. 214; p. 1189.
- Cox, Joseph, Trinidad, Colo. Colt and calf weaner. No. 1,166,328; Dec. 28; Gaz. vol. 221; p. 1385.
- Cox, Kenrick C., Norfolk Island. Selenium cell especially adapted for use in connection with telegraphy. No. 1,156,524; Oct. 12; Gaz. vol. 219; p. 443.
- Cox, Kenrick C., Norfolk Island. Submarine telegraphy. No. 1,158,375; Oct. 26; Gaz. vol. 219; p. 1185.
- Cox, Marion M., Corona, N. Mex. Rod-clamp. No. 1,138,195; May 4; Gaz. vol. 214; p. 166.
- Cox, Marvin E., *et al.* (See Brooks, Harry A., assignor.)
- Cox, Millard F., Louisville, Ky., assignor to Cast Steel Pilot Company, St. Louis, Mo. Locomotive-pilot. No. 1,143,687; June 22; Gaz. vol. 215; p. 1011.
- Cox Multi-Mailer Company. (See Cox, Sanford C., assignor.)
- Cox Multi-Mailer Company. (See Huneke, John, assignor.)
- Cox Multi-Mailer Company. (See Tomlinson, Joseph, assignor.)
- Cox, Percival P., Pontiac, Ill., assignor, by mesne assignments, to The Stitch-Address Company, Kalamazoo, Mich. Stapling and labeling machine. No. 1,147,846; July 27; Gaz. vol. 216; p. 1072.
- Cox, Robert E., Palouse, Wash. Milk-bottle holder. No. 1,137,583; Apr. 27; Gaz. vol. 213; p. 1362.
- Cox, Robert H., Listowel, Ireland. Fly-trap. No. 1,141,039; May 25; Gaz. vol. 214; p. 1273.
- Cox, Robert H., Listowel, Ireland. Fly-trap, &c. No. 1,164,596; Dec. 14; Gaz. vol. 221; p. 694.
- Cox, Samuel C., Washington, D. C. Street letter-box. No. 1,127,192; Feb. 2; Gaz. vol. 211; p. 186.
- Cox, Samuel L., Wolfe City, Tex. Ant-trap. No. 1,135,159; Apr. 13; Gaz. vol. 213; p. 428.
- Cox, Sanford C., Edison Park, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me. Folding and wrapping machine. No. 1,152,794; Sept. 7; Gaz. vol. 218; p. 151.
- Cox, Stephen J., Cranford, N. J. Adding-machine. No. 1,147,146; July 20; Gaz. vol. 216; p. 799.
- Cox, Thomas, Oakland, assignor to J. F. Lucey, Los Angeles, Cal. Hanger for polished-rod adjusters for wells. No. 1,154,486; Sept. 21; Gaz. vol. 218; p. 816.
- Cox, Thomas E., Jefferson county, assignor of one-third to B. P. Williams, Birmingham, Ala. Car-coupling. No. 1,123,694; Jan. 5; Gaz. vol. 210; p. 169.
- Cox, Thomas E., Birmingham, Ala., assignor of one-fourth to W. C. Muckleroy, one-fifth to C. M. Wall, one-sixth to B. P. Williams, and two-fifteenths to W. R. Stafford, Tampa, Fla. Car-coupling. No. 1,156,029; Oct. 5; Gaz. vol. 219; p. 244.
- Cox, W. H. (See Goff, Frank, assignor.)
- Cox, Walter, and A. Shuman, assignors to Pennsylvania Wire Glass Manufacturing Company, Philadelphia, Pa. Making corrugated wire-glass. No. 1,156,213; Oct. 12; Gaz. vol. 219; p. 333.
- Cox, Walter, and A. Shuman, assignors to Pennsylvania Wire Glass Manufacturing Company, Philadelphia, Pa. Corrugated wire-glass. No. 1,156,214; Oct. 12; Gaz. vol. 219; p. 333.
- Cox, William, Toronto, Ontario, Canada. Fare-box. No. 1,135,260; Apr. 13; Gaz. vol. 213; p. 460.
- Cox, William, Toronto, Ontario, Canada. Fare-box. No. 1,135,261; Apr. 13; Gaz. vol. 213; p. 461.
- Cox, William, Toronto, Ontario, Canada. Fare-box. No. 1,135,262; Apr. 13; Gaz. vol. 213; p. 461.
- Cox, William, Toronto, Ontario, Canada. Fare-box. No. 1,135,263; Apr. 13; Gaz. vol. 213; p. 461.
- Cox, William, Toronto, Ontario, Canada. Fare-box. No. 1,135,264; Apr. 13; Gaz. vol. 213; p. 462.
- Cox, William, Toronto, Ontario, Canada. Fare-box-supporting stand. No. 1,141,318; June 1; Gaz. vol. 215; p. 83.
- Cox, William N., *et al.* (See Attridge, Oliver H., assignor.)
- Cox, William N., *et al.* (See Wade, Samuel L., assignor.)
- Coxe, George E., Santa Rita, N. Mex. Refrigerator. No. 1,143,362; June 15; Gaz. vol. 215; p. 875.
- Coxe, Louis H., San Diego, Cal. Pressure-indicator. No. 1,148,361; July 27; Gaz. vol. 216; p. 1256.
- Coxey, Jasper S., Aberdeen, Wash. Folding and extension car-step. No. 1,141,615; June 1; Gaz. vol. 215; p. 188.
- Coy, Frederick W., Boston, assignor to C. F. Brown, trustee, Reading, Mass. Adjustable seat. No. 1,143,947; June 22; Gaz. vol. 215; p. 1100.
- Coykendall, Horatio G., San Jose, Cal. Drive mechanism. No. 1,141,319; June 1; Gaz. vol. 215; p. 83.
- Coyle, George W., Philadelphia, Pa. Motor mechanism for reversing fluid-operated engines. No. 1,145,123; July 6; Gaz. vol. 216; p. 53.
- Coyle-Irving, William E., New Haven, Conn., assignor to C. Bargamin, Newport News, Va. Fireless cooker. No. 1,129,050; Feb. 16; Gaz. vol. 211; p. 925.
- Coyle, James R., Huntsville, Ala., assignor of one-fourth to J. J. Friedel, North Chattanooga, Tenn. Rotary-valve internal-combustion engine. No. 1,154,487; Sept. 21; Gaz. vol. 218; p. 817.
- Coyne, Edmund M., Birmingham, Ala., assignor of one-half to W. V. Mentzell. Pipe-repair sleeve. No. 1,140,501; May 25; Gaz. vol. 214; p. 1088.
- Coyne, Edward M., Chatham, Ontario, Canada. Sunshade. No. 1,143,891; June 22; Gaz. vol. 215; p. 1080.
- Coyne, Edward M., Pittsburgh, Pa. Sculpturing-machine. No. 1,163,511; Dec. 7; Gaz. vol. 221; p. 271.
- Coyne, Hooper, Baltimore, Md. Safety-razor. No. 1,142,310; June 8; Gaz. vol. 215; p. 466.
- Coyner, Roy E., Burr Oak, Kans. Combination-lock for automobiles. No. 1,137,742; May 4; Gaz. vol. 214; p. 8.
- Cozlets, John, Coupon, Pa. Mine tippie-car. No. 1,141,442; June 1; Gaz. vol. 215; p. 127.
- Cozzens, Louis S., Freeport, N. Y. Collapsible folding table with adjustable drawing-board and artist's easel. No. 1,142,673; June 8; Gaz. vol. 215; p. 592.
- Crabb, Charles L., Millington, N. J., assignor to Topping Brothers, New York, N. Y. Lifting-jack. No. 1,132,075; Mar. 16; Gaz. vol. 212; p. 850.
- Crabb, Earl L., assignor to The Bell & Howell Company, Chicago, Ill. Moving-picture-film-printing machine. No. 1,159,650; Nov. 9; Gaz. vol. 220; p. 466.
- Crabbe, William J., Drum, and H. B. Rodehaver, East Auburn, Cal. Electric automatic train stop, telephone, and block-signal system. No. 1,149,159; Aug. 3; Gaz. vol. 217; p. 236.
- Crabiel, John H., Pennington, N. J., assignor to The J. L. Mott Iron Works, New York, N. Y. Anchorage or support for lavatories or similar articles. No. 1,127,596; Feb. 9; Gaz. vol. 211; p. 366.
- Crabtree, Leonard T., Crandon, Wis. Heater. No. 1,137,584; Apr. 27; Gaz. vol. 213; p. 1362.
- Crabtree, Thomas B., Hanford, Cal. Traction-wheel. No. 1,157,151; Oct. 19; Gaz. vol. 219; p. 693.
- Cracraft, Leich Electric Company. (See Leich, Oscar M., assignor.)
- Cracraft, Leich Electric Company. (See Reid, Alexander C., assignor.)
- Craft, Clarence H., assignor of one-half to A. P. Cooper, Uniontown, Pa. Adjustable lamp. No. 1,124,112; Jan. 5; Gaz. vol. 210; p. 311.
- Craft, Clarence H., Uniontown, Pa., assignor of one-half to F. A. Close. Speedometer-drive for automobiles. No. 1,134,591; Apr. 6; Gaz. vol. 213; p. 185.
- Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, New York, N. Y. Selective signaling system for party-lines. No. 1,128,857; Feb. 16; Gaz. vol. 211; p. 855.
- Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, New York, N. Y. Electromagnetic device. No. 1,139,956; May 18; Gaz. vol. 214; p. 859.
- Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, New York, N. Y. Electromagnetic relay. No. 1,156,671; Oct. 12; Gaz. vol. 219; p. 495.
- Craft, Edward B., Hackensack, N. J., and J. N. Reynolds, Greenwich, Conn., assignors to Western Electric Company, New York, N. Y. Multiple-brush selector. No. 1,123,695; Jan. 5; Gaz. vol. 210; p. 169.

Alphabetical list of patentees—Continued.

- Craft, Edward B., Hackensack, N. J., and J. N. Reynolds, Greenwich, Conn., assignors to Western Electric Company, New York, N. Y. Multiple-brush selector. No. 1,123,696; Jan. 5; Gaz. vol. 210; p. 170.
- Craft, Edward B., Hackensack, N. J., and G. Brown, Brooklyn, assignors to Western Electric Company, New York, N. Y. Selective calling apparatus. No. 1,140,120; May 18; Gaz. vol. 214; p. 919.
- Craft, Elisha, Wellsburg, W. Va. Adjustable governor for engines. No. 1,136,940; Apr. 27; Gaz. vol. 213; p. 1131.
- Craft, Fenton F. (See Ladd, Earnest W., assignor.)
- Craft, Lewis W., assignor of one-half to J. Godfrey, Chicago, Ill. Boiler-flue joint. No. 1,164,577; Dec. 14; Gaz. vol. 221; p. 688.
- Craft, William T., Denver, Colo. Electrical signaling apparatus. No. 1,127,193; Feb. 2; Gaz. vol. 211; p. 186.
- Crafton, Charles N., Owensboro, Ky. Lamp. No. 1,124,396; Jan. 12; Gaz. vol. 210; p. 459.
- Crafton, Minnie F., Mason City, Ill. Mail packer and carrier. No. 1,131,474; Mar. 9; Gaz. vol. 212; p. 600.
- Crafts, Sigel J., Chagrin Falls, Ohio. Automatic stop for phonograph records. No. 1,129,647; Feb. 23; Gaz. vol. 211; p. 1169.
- Craggs, Ross V., New York, N. Y., assignor to R. H. Wright, Durham, N. C. Twin-packet machine. No. 1,161,455; Nov. 23; Gaz. vol. 220; p. 1206.
- Craig, Alvin M., New Haven, Conn., assignor to Metal Molds Compressed Castings Company, Wilmington, Del. Casting and uniting metals. No. 1,153,197; Sept. 14; Gaz. vol. 218; p. 331.
- Craig, Claude C. (See Collins and Craig.)
- Craig, Clyde L., Washington Court-House, Ohio. Folding chair. No. 1,129,793; Feb. 23; Gaz. vol. 211; p. 1216.
- Craig, David, Peabody, Mass. Trap. No. 1,152,300; Aug. 31; Gaz. vol. 217; p. 1604.
- Craig, Edward, assignor, by mesne assignments, to Saranac Machine Co., St. Joseph, Mich. Tag-machine. No. 1,125,969; Jan. 26; Gaz. vol. 210; p. 1089.
- Craig, Edward, assignor, by mesne assignments, to Saranac Machine Co., St. Joseph, Mich. Box-blank machine. No. 1,132,515; Mar. 16; Gaz. vol. 212; p. 1011.
- Craig, Edward, assignor to Saranac Machine Co., St. Joseph, Mich. Berry-basket machine. No. 1,132,564; Mar. 23; Gaz. vol. 212; p. 1075.
- Craig, Edward, assignor, by mesne assignments, to Saranac Machine Co., St. Joseph, Mich. Machine for making butter-dishes or other receptacles. No. 1,135,666; Apr. 13; Gaz. vol. 213; p. 605.
- Craig, Edward, assignor to Saranac Machine Co., St. Joseph, Mich. Berry-basket machine. No. 1,135,667; Apr. 13; Gaz. vol. 213; p. 606.
- Craig, Edward, assignor to Saranac Machine Co., St. Joseph, Mich. Laundry-tag machine. No. 1,155,469; Oct. 5; Gaz. vol. 219; p. 51.
- Craig, Edward, assignor, by mesne assignments, to Saranac Machine Co., St. Joseph, Mich. Automatic carton-machine. No. 1,161,033; Nov. 23; Gaz. vol. 220; p. 1055.
- Craig, Herbert W., Laporte, Ind. Penholder-support. No. 1,139,348; May 11; Gaz. vol. 214; p. 608.
- Craig, James A., Toronto, Ontario, Canada, assignor of one-third to H. W. Rich, Buffalo, and one-third to C. J. Rich, Cattaraugus, N. Y. Grinding-machine. No. 1,123,494; Jan. 5; Gaz. vol. 210; p. 101.
- Craig, John, Alta Vista, Kans. Tool. No. 1,156,759; Oct. 12; Gaz. vol. 219; p. 524.
- Craig, Kate E., Omaha, Nebr. Garbage-can support. No. 1,162,575; Nov. 30; Gaz. vol. 220; p. 1638.
- Craig, Richard M., San Antonio, Tex. Switch-operating mechanism for electric railways. No. 1,140,579; May 25; Gaz. vol. 214; p. 1114.
- Craig, St. George, Clarksville, Tenn. Collapsible crate. No. 1,159,902; Nov. 9; Gaz. vol. 220; p. 557.
- Craig, Thomas D., Albia, Iowa. Dental instrument. No. 1,132,565; Mar. 23; Gaz. vol. 212; p. 1076.
- Craig, Thomas J. I. (See Spence and Craig.)
- Craig, Thornton, Jr., San Francisco, Cal. Dental appliance. No. 1,137,585; Apr. 27; Gaz. vol. 213; p. 1362.
- Craig, William M., Healdsburg, Cal. Self-starter for hydrocarbon-engines. No. 1,124,866; Jan. 12; Gaz. vol. 210; p. 630.
- Craighead, James R. (See Robinson and Craighead.)
- Craigie, Hugh A., Cumberland Mills, Me., assignor to S. D. Warren & Co., Boston, Mass. Paper-moistening apparatus. No. 1,127,597; Feb. 9; Gaz. vol. 211; p. 367.
- Craine, William, Brookfield, N. Y. Bottom-discharge silo. No. 1,165,760; Dec. 28; Gaz. vol. 221; p. 1183.
- Crall, John J., Kendrick, Okla. Machine for forming concrete dikes. No. 1,164,072; Dec. 14; Gaz. vol. 221; p. 514.
- Cram, Benjamin H., Baltimore, Md. Apparatus for producing oxygen. No. 1,155,045; Sept. 28; Gaz. vol. 218; p. 1035.
- Cram, Frederick W., Mount Vernon, Wash. Silo. No. 1,137,842; May 4; Gaz. vol. 214; p. 42.
- Cram, Frederick W., Mount Vernon, Wash. Extension-stop for cars. No. 1,165,761; Dec. 28; Gaz. vol. 221; p. 1184.
- Cram, George M., Portland, Me. Submerged exhaust and bilge-water-removing device for motor-boats. No. 1,162,223; Nov. 30; Gaz. vol. 220; p. 1519.
- Cramer, Benjamin F., Sandpoint, Idaho. Pack-frame. No. 1,150,664; Aug. 17; Gaz. vol. 217; p. 939.
- Cramer, Stuart W. (See Hodge, William B., assignor.)
- Cramer, Stuart W., Charlotte, N. C. Air-conditioning apparatus. No. 1,147,484; July 20; Gaz. vol. 216; p. 919.
- Cramp, Joseph C., assignor of one-half to H. S. Holby, Philadelphia, Pa. Bag-cleaner. No. 1,163,131; Dec. 7; Gaz. vol. 221; p. 138.
- Crampton Automatic Pressure Fastener Company. (See Crampton, Basil R., assignor.)
- Crampton, Basil R., assignor to Crampton Automatic Pressure Fastener Company, Detroit, Mich. Latch-spring fastener. No. 1,157,086; Oct. 19; Gaz. vol. 219; p. 670.
- Crampton, Orlando W., Pittsburgh, Pa. Game. No. 1,144,529; June 29; Gaz. vol. 215; p. 1331.
- Crandall, Grover C., assignor of one-half to Z. Smith, San Antonio, Tex. Rain-water cut-off. No. 1,151,001; Aug. 24; Gaz. vol. 217; p. 1113.
- Crandall, Jay E., Belvidere, Ill., assignor to The Warner Brothers Company, Bridgeport, Conn. Grinding. No. 1,131,119; Mar. 9; Gaz. vol. 212; p. 477.
- Crandall, Max E., Kingfisher, Okla. Top. No. 1,123,697; Jan. 5; Gaz. vol. 210; p. 170.
- Crandall, Max E., assignor of one-half to M. J. Meier, Kingfisher, Okla. Window-screen. No. 1,142,311; June 8; Gaz. vol. 215; p. 466.
- Crandall, Olive H., et al. (See Geary, Joseph F., assignor.)
- Crandall, Roy L., Minneapolis, Minn. Trade-book. No. 1,132,516; Mar. 16; Gaz. vol. 212; p. 1011.
- Crane, Calvin D., Dayton, Ohio. Water-still. No. 1,154,590; Sept. 21; Gaz. vol. 218; p. 853.
- Crane Company. (See Houser, Arthur M., assignor.)
- Crane Company. (See Woodsome, John O., assignor.)
- Crane, Edward F., Newark, assignor to H. A. Crane & Bro., Inc., Jersey City, N. J. Concrete floor construction. No. 1,160,384; Nov. 16; Gaz. vol. 220; p. 778.
- Crane, Frederick G., et al. (See Hammond, Grant, assignor.)
- Crane, George C. (See Webb and Crane.)
- Crane, Harry W., Philadelphia, Pa., assignor to International Window Manufacturing Company. Window. No. 1,132,652; Mar. 23; Gaz. vol. 212; p. 1109.
- Crane, James P., Chicago, Ill. Producing compounds of rubber and steel-wool. No. 1,152,935; Sept. 7; Gaz. vol. 218; p. 204.
- Crane, John, Chicago, Ill. Packing and making same. No. 1,151,344; Aug. 24; Gaz. vol. 217; p. 1228.
- Crane, Leslie, assignor to F. R. Patch Mfg. Co., Rutland, Vt. Polishing-head. No. 1,141,616; June 1; Gaz. vol. 215; p. 188.
- Crane Manufacturing Co. (See Peterson and Baird, assignors.)
- Crane, Peter B., assignor to C. D. Follansbee, Long Lake, Minn. Tilling-machine. No. 1,162,456; Nov. 30; Gaz. vol. 220; p. 1599.
- Crane, Peter B., assignor to C. D. Follansbee, Long Lake, Minn. Deep-tilling gang-plow. No. 1,162,457; Nov. 30; Gaz. vol. 220; p. 1599.
- Crane, Raymond E., Los Gatos, Cal. Manufacture of lavatories and the like. No. 1,138,629; May 11; Gaz. vol. 214; p. 355.
- Crane, Robert M. (See Goodwin, Adolphus D., assignor.)
- Crane, Thomas S. (See Rossig and Crane.)
- Crane, Warren N. (See Horne and Crane.)
- Crane, Thomas, Bay City, Mich. Apparatus for the treatment of sewage. No. 1,134,107; Apr. 6; Gaz. vol. 213; p. 9.
- Crane, Thomas, Bay City, Mich. Apparatus for the production of valuable products from refuse organic matter. No. 1,140,502; May 25; Gaz. vol. 214; p. 1088.
- Cranford, William W., Johnson county, near Altus, Ark. Agricultural implement. No. 1,137,052; Apr. 27; Gaz. vol. 213; p. 1172.
- Cranmer, George O., and G. V. Tudhope, Oakland, Cal. Non-interfering succession-movement fire-alarm signaling-machine. No. 1,152,710; Sept. 7; Gaz. vol. 218; p. 121.
- Cranmer, George T., trustee. (See Garrett, James C., assignor.)
- Cranston, William B., Chicago, Ill. Tamponnade uterine supporter. No. 1,123,994; Jan. 5; Gaz. vol. 210; p. 269.
- Cranwell, Benjamin F., and W. J. Robertson, Auckland, New Zealand. Radial cultivator. No. 1,126,712; Feb. 2; Gaz. vol. 211; p. 15.
- Crapp, Henrietta. (See Crapp, Thomas S., assignor.)
- Crapp, Thomas S., assignor to H. Crapp, Indianapolis, Ind. Combined vehicle storm-front and sun-shield. No. 1,138,280; May 4; Gaz. vol. 214; p. 195.
- Crary, Frederic W. (See Gale, Albert O., assignor.)
- Cratty, John H., and H. W. Newell, Springfield, Mass. Auxiliary air device. No. 1,148,830; Aug. 3; Gaz. vol. 217; p. 124.
- Cratty, Josiah. (See Hardinge, Henry H., assignor.)
- Cravath, James R., Chicago, Ill. Lighting-fixture. No. 1,137,954; May 4; Gaz. vol. 214; p. 81.
- Craven, James F., Zelenople, Pa. Well drill-jar. No. 1,133,841; Mar. 30; Gaz. vol. 212; p. 1574.
- Craven, James F., Crafton, Pa. Safety-razor. No. 1,135,362; Apr. 13; Gaz. vol. 213; p. 469.

Alphabetical list of patentees—Continued.

- Craven, James T. (See Thwaites and Craven.)
 Craven, John E. (See Burke and Craven.)
 Craven, Lewis J. (See Craven, Young, and Cliffe.)
 Craven, Thomas F. (See Fretz and Craven.)
 Craven, Thomas W., Fairfield, Cal. Washing-machine. No. 1,161,621; Nov. 23; Gaz. vol. 220; p. 1263.
 Craven, William T., Ilkley, L. J. Craven, Leeds, C. H. Young, Brighouse, F. H. Cliffe, Hipperholme, and W. S. Cliffe, London, England. Apparatus for mercerizing cotton piece goods and the like. No. 1,165,570; Dec. 28; Gaz. vol. 221; p. 1114.
 Cravens, Frank S., Olive Hill, Ky. Air-brake apparatus. No. 1,137,701; Apr. 27; Gaz. vol. 213; p. 1398.
 Cravens, William M., *et al.* (See McCoy, Robert J., assignor.)
 Craver, Stephen G., Searsboro, Iowa. Fan attachment for cultivators. No. 1,123,854; Jan. 5; Gaz. vol. 210; p. 224.
 Craw, Frank C., South Norwalk, Conn. Automatic tire-pump. No. 1,132,167; Mar. 16; Gaz. vol. 212; p. 883.
 Craw, Joseph T., assignor of one-fourth to W. H. Heavey, Jr., and one-fourth to H. M. Thompson, Jersey City, N. J. Pour-out stopper. No. 1,140,959; May 25; Gaz. vol. 214; p. 1247.
 Craw, Joseph T., Jersey City, N. J., and F. L. Schley, New York, N. Y. Combined dust-cap and waterproof hat-shield. No. 1,160,049; Nov. 9; Gaz. vol. 220; p. 608.
 Crawford, Albert B., Eastbourne, England. Dress-fastening. No. 1,148,444; July 27; Gaz. vol. 216; p. 1283.
 Crawford, Carl, Columbus, Ohio. Tire-carrier. No. 1,160,141; Nov. 16; Gaz. vol. 220; p. 695.
 Crawford, Cary W., assignor to Eureka Shock Absorber Company, Los Angeles, Cal. Vehicle-springs. No. 1,124,708; Jan. 12; Gaz. vol. 210; p. 573.
 Crawford, Cary W., assignor to Eureka Shock Absorber Company, Los Angeles, Cal. Vehicle-springs. No. 1,130,880; Mar. 2; Gaz. vol. 212; p. 187.
 Crawford, David, Atlanta, Ga. Swing. No. 1,135,160; Apr. 13; Gaz. vol. 213; p. 428.
 Crawford, David F., Pittsburgh, Pa. Stoker. No. 1,131,213; Mar. 9; Gaz. vol. 212; p. 510.
 Crawford, David F., Pittsburgh, Pa. Automatic stoker. No. 1,131,214; Mar. 9; Gaz. vol. 212; p. 510.
 Crawford, David F., Pittsburgh, Pa. Automatic stoker. No. 1,131,215; Mar. 9; Gaz. vol. 212; p. 511.
 Crawford, David F., Pittsburgh, Pa. Draft-gear mechanism. (Reissue.) No. 13,894; Mar. 30; Gaz. vol. 212; p. 1656.
 Crawford, Edwin H., Santa Rosa, Cal. Instrument for recementing dental bridges and the like. No. 1,139,017; May 11; Gaz. vol. 214; p. 495.
 Crawford, Frank, assignor, by mesne assignments, to Wiring Reel & Tools Co., Inc., New York, N. Y. Supporting-reel for wound coils. No. 1,147,680; July 20; Gaz. vol. 216; p. 987.
 Crawford, George M., Pittsburgh, Pa. Developing-tray. No. 1,135,503; Apr. 13; Gaz. vol. 213; p. 546.
 Crawford, George S. (See Swinburne and Crawford.)
 Crawford, Guy W., Fremont, Mich. Turbine. No. 1,138,630; May 11; Gaz. vol. 214; p. 355.
 Crawford, Harry M., Lima, Ohio. Dental instrument. No. 1,138,631; May 11; Gaz. vol. 214; p. 355.
 Crawford, Harvey F., assignor to C. & S. Rubber Sole Company, Brockton, Mass. Composite outer sole. No. 1,123,698; Jan. 5; Gaz. vol. 210; p. 170.
 Crawford, James, El Paso, Tex. Fly-trap. No. 1,131,120; Mar. 9; Gaz. vol. 212; p. 478.
 Crawford, James M., *et al.* (See Hale, James H., assignor.)
 Crawford, John S., assignor to Reading Specialties Company, Reading, Pa. Rail bending and straightening device. No. 1,129,961; Mar. 2; Gaz. vol. 212; p. 43.
 Crawford, Lewis M. (See Weese and Crawford.)
 Crawford, Lindsay H., Chicago, Ill. Underwear. No. 1,140,121; May 18; Gaz. vol. 214; p. 920.
 Crawford, Lindsay H., Chicago, Ill. Undergarment. No. 1,140,122; May 18; Gaz. vol. 214; p. 920.
 Crawford, Marvin R. (See Mitchell, Thomas T., assignor.)
 Crawford, Thomas A., Louisville, Ky. Coffee composition. No. 1,161,925; Nov. 30; Gaz. vol. 220; p. 1416.
 Crawford, Wilber D., Lexington, Nebr. Ice-skate. No. 1,129,075; Feb. 23; Gaz. vol. 211; p. 968.
 Crawford, William E., Chapin, Iowa. Wagon end-gate. No. 1,124,300; Jan. 12; Gaz. vol. 210; p. 426.
 Crawford, William H., Rosemond, Ill. Foldable screen-frame. No. 1,137,702; Apr. 27; Gaz. vol. 213; p. 1399.
 Crawford, William W., Lynn, Mass., assignor to General Electric Company. Vapor electric device. No. 1,151,345; Aug. 24; Gaz. vol. 217; p. 1229.
 Crawley, Mansfield C., assignor to Addograph Company, Los Angeles, Cal. Electric type-writer. No. 1,156,061; Oct. 12; Gaz. vol. 219; p. 282.
 Crayssac, Desiré, Lyon, France. Two-cycle valveless internal-combustion engine. No. 1,125,663; Jan. 19; Gaz. vol. 210; p. 948.
 Crayssac, Desiré, Villeurbanne, Rhone, France. Rotary motor. No. 1,163,323; Dec. 7; Gaz. vol. 221; p. 205.
 Creahan, Michael F., Brooklyn, N. Y. Arch-supporter. No. 1,134,108; Apr. 6; Gaz. vol. 213; p. 9.
 Creahan, William H. (See Jeffreys and Creahan.)
 Cream Cone Machine Company. (See Pierce, Simeon F., assignor.)
 Creamer, Irvin S., Pleasant Hall, Pa. Level. No. 1,141,617; June 1; Gaz. vol. 215; p. 189.
 Creamer, John R., assignor to Vesta Manufacturing Company, Philadelphia, Pa. Gas-heater. No. 1,165,571; Dec. 28; Gaz. vol. 221; p. 1115.
 Creamery Package Manufacturing Company. (See Valerius, Theodore L., assignor.)
 Creamery Package Manufacturing Company, The. (See Valerius and Larsen, assignors.)
 Creapo, Charles A., St. Paul, Minn. Ladder. No. 1,155,995; Oct. 5; Gaz. vol. 219; p. 231.
 Creapo, Charles A., St. Paul, Minn. Grain-car door. No. 1,159,651; Nov. 9; Gaz. vol. 220; p. 466.
 Crebbin, Bert, Bridgeport, Ala., assignor, by mesne assignments, to Saranac Machine Company, St. Joseph, Mich. Box-making machine. No. 1,123,250; Jan. 5; Gaz. vol. 210; p. 16.
 Creclius, Lawrence P., Cleveland, Ohio. Uniting metal bodies. No. 1,133,268; Mar. 30; Gaz. vol. 212; p. 1368.
 Creclius, Theodore E. (See Feldmann and Creclius.)
 Creecy, D. R., Jr., *et al.* (See Allard, Andrew J., assignor.)
 Creekmore, Louis H., Bristow, Okla. Cotton-picker. No. 1,139,492; May 18; Gaz. vol. 214; p. 696.
 Cregier, Charles K., Chicago, Ill. Electromegaphone-receiver, &c. No. 1,142,875; June 15; Gaz. vol. 215; p. 708.
 Crehan, Hubert, Pittsburgh, Pa. Nut-tapping machine. No. 1,149,553; Aug. 10; Gaz. vol. 217; p. 482.
 Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Transmission-line. No. 1,131,216; Mar. 9; Gaz. vol. 212; p. 511.
 Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,144,028; June 22; Gaz. vol. 215; p. 1130.
 Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,144,029; June 22; Gaz. vol. 215; p. 1130.
 Creighton, Nelson B., New York, N. Y. Valve. No. 1,131,475; Mar. 9; Gaz. vol. 212; p. 601.
 Creighton, Nelson B., New York, N. Y. Valve. No. 1,140,359; May 25; Gaz. vol. 214; p. 1035.
 Crellin, Edward W., Crafton, Pa., assignor to Des Moines Bridge & Iron Works, Des Moines, Iowa. Metal-bending machine. No. 1,156,062; Oct. 12; Gaz. vol. 219; p. 282.
 Cremer, Henry, Chicago, Ill. Bottle. No. 1,130,069; Mar. 2; Gaz. vol. 212; p. 80.
 Cremer, Henry, Chicago, Ill. Grating-machine. No. 1,141,694; June 1; Gaz. vol. 215; p. 216.
 Cremer, Henry, Chicago, Ill. Bottle-closure. No. 1,154,290; Sept. 21; Gaz. vol. 218; p. 750.
 Cremer, Henry, Chicago, Ill. Bottle-closure. No. 1,154,291; Sept. 21; Gaz. vol. 218; p. 750.
 Cremering, Bernard C. and H. R., Cincinnati, Ohio. Mop. No. 1,151,664; Aug. 31; Gaz. vol. 217; p. 1384.
 Cremering, Henry R. (See Cremering, Bernard C. and H. R.)
 Crémieu-Javal, Edgard, London, England. Hydrocarbon-nozzle of spray-carbureters and spray-burners. No. 1,132,539; Mar. 16; Gaz. vol. 212; p. 1020.
 Crémieu-Javal, Edgard, London, England. Collapsible lifting apparatus. No. 1,135,440; Apr. 13; Gaz. vol. 213; p. 524.
 Creque, Frank J., Cuyahoga Falls, Ohio. Toy balloon. No. 1,137,385; Apr. 27; Gaz. vol. 213; p. 1294.
 Crescent Calk Corporation. (See Jacobson, Charles E., assignor.)
 Crescent Clay Refining Company, The. (See Thompson, Firman, assignor.)
 Crescent Machine Company, The. (See Halverstadt, Le Roy J., assignor.)
 Crescent Machine Company, The. (See Harrold, Elmer, assignor.)
 Crescent Machine Company, The. (See Wilderson, Clinton G., assignor.)
 Crescent Talking Machine Company. (See Hoschke, William H., assignor.)
 Crescent Tool Company. (See Peterson, Karl, assignor.)
 Crescio, Louis C., New York, N. Y. Micrometer-gage. No. 1,124,867; Jan. 12; Gaz. vol. 210; p. 631.
 Cressey, Edward J., Wichita, Kans. Automatic telephone responding apparatus. No. 1,138,734; May 11; Gaz. vol. 214; p. 393.
 Cresswell, Milton B., Des Moines, Iowa. Defecator. No. 1,134,997; Apr. 13; Gaz. vol. 213; p. 371.
 Cresswell, Milton B., Des Moines, Iowa. Water-purifier. No. 1,158,450; Nov. 2; Gaz. vol. 220; p. 14.
 Creveling, John L., New York, N. Y. Appliance for telephones. No. 1,145,751; July 6; Gaz. vol. 216; p. 272.
 Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,123,251; Jan. 5; Gaz. vol. 210; p. 17.
 Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,125,267; Jan. 19; Gaz. vol. 210; p. 808.
 Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,126,620; Jan. 26; Gaz. vol. 210; p. 1326.

Alphabetical list of patentees—Continued.

- Creveling, John L., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Gas tank and regulator. No. 1,131,335; Mar. 9; Gaz. vol. 212; p. 552.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,137,121; Apr. 27; Gaz. vol. 213; p. 1198.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,138,632; May 11; Gaz. vol. 214; p. 356.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Dynamo-driving mechanism. No. 1,139,493; May 18; Gaz. vol. 214; p. 696.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric system. No. 1,143,176; June 15; Gaz. vol. 215; p. 810.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,144,299; June 22; Gaz. vol. 215; p. 1225.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Electric-lighting system for cars. No. 1,145,468; July 6; Gaz. vol. 216; p. 174.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,147,005; July 20; Gaz. vol. 216; p. 751.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric switch. No. 1,149,735; Aug. 10; Gaz. vol. 217; p. 549.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,155,643; Oct. 5; Gaz. vol. 219; p. 110.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulator. No. 1,162,458; Nov. 30; Gaz. vol. 220; p. 1600.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,162,459; Nov. 30; Gaz. vol. 220; p. 1600.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,162,460; Nov. 30; Gaz. vol. 220; p. 1601.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Reversible brush-holder for dynamos. No. 1,164,260; Dec. 14; Gaz. vol. 221; p. 577.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Reversible brush-holder for dynamo-electric machines. No. 1,164,261; Dec. 14; Gaz. vol. 221; p. 577.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Reversible brush-holder for dynamo-electric machines. No. 1,164,262; Dec. 14; Gaz. vol. 221; p. 578.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Reversible brush-holder for use with dynamos. No. 1,164,263; Dec. 14; Gaz. vol. 221; p. 578.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,165,075; Dec. 21; Gaz. vol. 221; p. 903.
- Crew, Henry T., assignor of one-half to W. B. Simpson, Shreveport, La. Explosive-engine. No. 1,126,713; Feb. 2; Gaz. vol. 211; p. 16.
- Crowdson, Archie B. (See Copps and Crowdson.)
- Cribb, Henry B., Horry county, S. C. Plant-bed protector. No. 1,139,167; May 11; Gaz. vol. 214; p. 547.
- Cribbs, Thomas J., Clearwater, Fla. Bicycle transmission. No. 1,154,292; Sept. 21; Gaz. vol. 218; p. 750.
- Crick, Thomas R., Sweetman, Miss. Nut-lock. No. 1,165,391; Dec. 28; Gaz. vol. 221; p. 1053.
- Cridder, Alfred, *et al.* (See Eckenwiler, George M., assignor.)
- Cridder, Julius W., Fairland, Tex. Peanut-planter. No. 1,164,171; Dec. 14; Gaz. vol. 221; p. 547.
- Cridland, Ernest A., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,130,801; Mar. 9; Gaz. vol. 212; p. 369.
- Crigler, John F., Lutherville, Md. Trunk-handle. No. 1,149,634; Aug. 10; Gaz. vol. 217; p. 515.
- Crilly, Thomas J., and F. M. Wilson, Denver, Colo. Fuel-igniter. No. 1,150,177; Aug. 17; Gaz. vol. 217; p. 770.
- Crim, Le Roy C., Altmar, N. Y. Automatic train-control system. No. 1,132,450; Mar. 16; Gaz. vol. 212; p. 986.
- Crim, Samuel E., assignor of one-half to W. B. Crim, Mechanicsburg, Ohio. Tire-bolting machine. No. 1,131,476; Mar. 9; Gaz. vol. 212; p. 601.
- Crim, W. B. (See Crim, Samuel E., assignor.)
- Crimmel, Alvie C., Hartford City, Ind. Dispensing cap or cover. No. 1,157,679; Oct. 26; Gaz. vol. 219; p. 941.
- Criener, Harry J., Burlington, Iowa, assignor to A. Oilphant. Water-motor. No. 1,130,671; Mar. 2; Gaz. vol. 212; p. 290.
- Crinnion, Annabel, Flushing, N. Y. Life-saving suit. No. 1,140,025; May 18; Gaz. vol. 214; p. 885.
- Crippen, James B. (See Ashley and Crippen.)
- Crippen, Roy D., San Diego, Cal. Spring-seat. No. 1,155,893; Oct. 5; Gaz. vol. 219; p. 198.
- Crippen, Stuart S., assignor to L. B. Allen Company, Chicago, Ill. Fluid-holder. No. 1,130,802; Mar. 9; Gaz. vol. 212; p. 370.
- Cripps, George E., and N. Price, Rochester, N. Y. Drinking-fountain. No. 1,161,622; Nov. 23; Gaz. vol. 220; p. 1264.
- Criqui, Albert A., Buffalo, N. Y. Centrifugal fan. No. 1,161,926; Nov. 30; Gaz. vol. 220; p. 1416.
- Crisman, Caleb, Chicago, Ill. Combined shovel and brush. No. 1,143,752; June 22; Gaz. vol. 215; p. 1032.
- Crisp, Charles R. (See Manetsch and Crisp.)
- Crissey, Annie Y., Galesburg, Ill. Bed-pan. No. 1,124,709; Jan. 12; Gaz. vol. 210; p. 573.
- Crissey, Clarence P., East Orange, N. J., assignor to General Electric Company. Air-regulating device for centrifugal compressors. No. 1,141,938; June 8; Gaz. vol. 215; p. 336.
- Crist, Harry, Scalp Level, Pa. Combined frog and switch for overhead trolleys. No. 1,160,142; Nov. 16; Gaz. vol. 220; p. 695.
- Crist, Lauren A., Marion, Kans. Dirt, sand, and manure loader. No. 1,156,889; Oct. 19; Gaz. vol. 219; p. 599.
- Crist, Thomas D., Holland Patent, and G. H. Spitzil, Utica, N. Y.; said Crist assignor to said Spitzil. Totalizer for calculating-machines. No. 1,158,641; Nov. 2; Gaz. vol. 220; p. 82.
- Criswell, Benjamin H., assignor of one-half to D. L. Holwick, Canton, Ohio. Cleaning-cloth and producing same. No. 1,143,614; June 22; Gaz. vol. 215; p. 986.
- Criswell, Raleigh C., assignor of one-half to G. C. Fleming, Chicago, Ill. Front and rear drive for automobiles. No. 1,155,216; Sept. 28; Gaz. vol. 218; p. 1095.
- Criswell, Richard L., Cleveland, Ohio. Split connecting-link. No. 1,151,246; Aug. 24; Gaz. vol. 217; p. 1198.
- Critcherson, George A., Los Angeles, Cal., assignor to The Columbus Dental Manufacturing Co., Columbus, Ohio. Dental plate with rugæ on the lingual side. No. 1,129,335; Feb. 23; Gaz. vol. 211; p. 1059.
- Critcherson, George A., Los Angeles, Cal., assignor to The Columbus Dental Manufacturing Co., Columbus, Ohio. Rugæ-mold for denture-plates. No. 1,129,336; Feb. 23; Gaz. vol. 211; p. 1059.
- Critchfield, Albert G., Lents, Oreg. Hand fruit-picker. No. 1,151,441; Aug. 24; Gaz. vol. 217; p. 1260.
- Crittall Manufacturing Company, The. (See Crittall, Valentine G., assignor.)
- Crittall, Valentine G., assignor to The Crittall Manufacturing Company, Limited, Braintree, England. Window and casement. No. 1,132,834; Mar. 23; Gaz. vol. 212; p. 1177.
- Crittenden, Richard F., assignor to Krit-Seal Company, Los Angeles, Cal. Moistening and sealing device. No. 1,157,619; Oct. 19; Gaz. vol. 219; p. 854.
- Croan, Ernest T., assignor of one-half to T. J. Croan, Mound City, Kans. Band-cutter and feeder. No. 1,131,334; Mar. 9; Gaz. vol. 212; p. 552.
- Croan, Thomas J. (See Croan, Ernest T., assignor.)
- Croasdale, John P. (See Podmore and Croasdale.)
- Croasdale, John P., Berwyn, assignor to Pioneer Suspender Company, Philadelphia, Pa. Triangle cast-off. No. 1,136,107; Apr. 20; Gaz. vol. 213; p. 798.
- Crocker, Daniel A., Almond, Wis. Sleigh. No. 1,127,194; Feb. 2; Gaz. vol. 211; p. 187.
- Crocker, Eliakim H., Stockton Springs, Me. Fruit-gatherer. No. 1,146,052; July 13; Gaz. vol. 216; p. 398.
- Crocker, Ernest B. (See Blanchard and Crocker.)
- Crocker, Ernest B., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Releasing device. No. 1,130,803; Mar. 9; Gaz. vol. 212; p. 370.
- Crocker, Ernest B., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Device for damping pressure fluctuations. No. 1,162,982; Dec. 7; Gaz. vol. 221; p. 86.
- Crocker, Harry L., Esmond, R. I. Apron-oiler for condensers. No. 1,142,936; June 15; Gaz. vol. 215; p. 725.
- Crocker-Wheeler Company. (See Du Bois, Delafield, assignor.)
- Crocker-Wheeler Company. (See Pikler, Armin H., assignor.)
- Crocker, William W., Somerville, Mass. Glazing-strip. No. 1,156,981; Oct. 19; Gaz. vol. 219; p. 633.
- Crockett, Charles H., assignor to Detroit Lubricator Company, Detroit, Mich. Lubricator. No. 1,156,133; Oct. 12; Gaz. vol. 219; p. 307.
- Crockett, Elmer B., *et al.* (See Kellenberger, John, assignor.)
- Crockett, William P., *et al.* (See Levison, Maurice, assignor.)
- Crofford, Charles B., Binghamton, Tenn. Churn. No. 1,131,336; Mar. 9; Gaz. vol. 212; p. 552.
- Crofoot, Edwin H., assignor of one-third to C. L. Casterline and one-third to J. E. Fennerty, Findlay, Ohio. Automobile wheel-holder. No. 1,131,477; Mar. 9; Gaz. vol. 212; p. 602.
- Croft, Edmund J., Tacoma, Wash. Combined transom and door-curtain. No. 1,140,665; May 25; Gaz. vol. 214; p. 1144.
- Crofts, Frederick C., *et al.* (See Callery, George F., assignor.)
- Crofts, Maurice, Sydney, New South Wales, Australia. Ladder. No. 1,154,614; Sept. 28; Gaz. vol. 218; p. 890.
- Croll, William H., Atlanta, Ga. Manufacturing paper-stock and paper from cotton-stalks, &c. No. 1,165,323; Dec. 21; Gaz. vol. 221; p. 989.

Alphabetical list of patentees—Continued.

- Cromer, Harry I., Oak Park, and C. C. Harting, Woodstock, assignors to The Oliver Typewriter Company, Chicago, Ill. Paper-guiding device for type-writing machines. No. 1,159,749; Nov. 9; Gaz. vol. 220; p. 502.
- Cromin, Charles P. (See Lambert and Cromin.)
- Cromley, Charles D., Alameda, Cal. Folding portable house. No. 1,124,212; Jan. 5; Gaz. vol. 210; p. 346.
- Cromley, John M., York, Pa. Rolling-machine. No. 1,125,481; Jan. 19; Gaz. vol. 210; p. 882.
- Crompton, Edwin, Jr., assignor of one-half to F. M. Simpson and one-half to Eja L. Snyder, Pueblo, Colo. Latch. No. 1,132,705; Mar. 23; Gaz. vol. 212; p. 1128.
- Crompton & Knowles Loom Works. (See Chevette, Augustin J., assignor.)
- Crompton & Knowles Loom Works. (See Crossland, George, assignor.)
- Crompton & Knowles Loom Works. (See Fitton, John R., assignor.)
- Crompton & Knowles Loom Works. (See Gordon, Albert A., Jr., assignor.)
- Crompton & Knowles Loom Works. (See Hacking, Chester, assignor.)
- Crompton & Knowles Loom Works. (See Hutchins, George F., assignor.)
- Crompton & Knowles Loom Works. (See Hutchins and Jenckes, assignors.)
- Crompton & Knowles Loom Works. (See Le Doux, Hector, assignor.)
- Crompton & Knowles Loom Works. (See Morell, Alfred F., assignor.)
- Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
- Crompton & Knowles Loom Works. (See Wattie, William, assignor.)
- Crompton & Knowles Loom Works. (See Wyman, Horace, assignor.)
- Crompton & Knowles Loom Works. (See Wyman and Morell, assignors.)
- Crompton, Randolph, Worcester, Mass. Stopping mechanism for textile apparatus. No. 1,142,751; June 8; Gaz. vol. 215; p. 618.
- Crompton, Randolph, Chatham, Mass. Stopping instrumentality and mechanism for textile apparatus. No. 1,142,752; June 8; Gaz. vol. 215; p. 618.
- Crompton, Randolph, Chatham, Mass. Stopping mechanism for textile apparatus. No. 1,142,753; June 8; Gaz. vol. 215; p. 619.
- Crompton, Randolph, Chatham, Mass. Weft-replenishing loom. No. 1,142,937; June 15; Gaz. vol. 215; p. 725.
- Crompton, Randolph, Chatham, Mass. Weft-replenishing color-loom. No. 1,142,938; June 15; Gaz. vol. 215; p. 725.
- Crompton, Randolph, Chatham, Mass. Shuttle-positioning means. No. 1,143,105; June 15; Gaz. vol. 215; p. 784.
- Crompton, Randolph, Chatham, Mass. Automatic filling-replenishing loom. (Reissue.) No. 13,948; July 20; Gaz. vol. 216; p. 994.
- Cromwell, George O. (See Reade and Cromwell.)
- Cromwell, James A., et al. (See Dingwell, Ruel, assignor.)
- Cromwell, John C., Cleveland, Ohio. Universal mill. No. 1,163,975; Dec. 14; Gaz. vol. 221; p. 479.
- Cromwell, Oliver C., Baltimore, Md. Manufacturing a draft-yoke for railway-cars. No. 1,125,664; Jan. 19; Gaz. vol. 210; p. 949.
- Cromwell, Oliver C., Baltimore, Md. Manufacturing a draft-yoke for railway-car draft-rigging. No. 1,125,665; Jan. 19; Gaz. vol. 210; p. 950.
- Crone, Seth A., East Orange, N. J. Brake-beam. No. 1,142,498; June 8; Gaz. vol. 215; p. 535.
- Cronenberger, Walter M., Toledo, Ohio. Separator and filter. No. 1,152,399; Sept. 7; Gaz. vol. 218; p. 6.
- Cronin, Patrick J., et al. (See Lynch, Daniel E., assignor.)
- Cronk & Carrier Manufacturing Company, The. (See Hall, Herbert W., assignor.)
- Cronk, Harrison T., New York, N. Y. Hopper. No. 1,129,826; Feb. 23; Gaz. vol. 211; p. 1227.
- Cronkrite, James E., Hitchcock, Okla. Silo. No. 1,147,378; July 20; Gaz. vol. 216; p. 881.
- Crowell, Carl G., Chicago, Ill. Gas-burner. No. 1,158,986; Nov. 2; Gaz. vol. 220; p. 260.
- Crook, Alfred, assignor to Philadelphia Roll and Machine Company, Philadelphia, Pa. Centering device. No. 1,140,123; May 18; Gaz. vol. 214; p. 921.
- Crook, Charles M., Chicago, Ill., assignor, by mesne assignments, to Stromberg Electric Company. Time-recording device. No. 1,143,363; June 15; Gaz. vol. 215; p. 876.
- Crook, Charles M., assignor to Stromberg Electric Company, Chicago, Ill. Time-recorder. No. 1,143,364; June 15; Gaz. vol. 215; p. 876.
- Crook, Thomas J., Wichita, Kans. Oil-burner. No. 1,147,610; July 20; Gaz. vol. 216; p. 963.
- Crook, Zeno E., Denver, Colo. Safety-valve. No. 1,124,113; Jan. 5; Gaz. vol. 210; p. 311.
- Crooks, Myler G., Evansville, Ind. Liquid-level register and alarm. No. 1,129,051; Feb. 16; Gaz. vol. 211; p. 926.
- Cropp, Sophia C., Escatawpa, Miss. Elevator-truck. No. 1,139,494; May 18; Gaz. vol. 214; p. 697.
- Cropper, Sylvester. (See Duggan, Daniel J., assignor.)
- Crosbie, Sydney, New Barnet, England. Centrifugal spray-producer. No. 1,149,810; Aug. 10; Gaz. vol. 217; p. 576.
- Crosby, Alphonso S., et al. (See Orr, Charles B., assignor.)
- Crosby Company, The. (See Burkhardt, Frederick C., assignor.)
- Crosby, Joseph E., New York, N. Y. Ash-sifter. No. 1,125,482; Jan. 19; Gaz. vol. 210; p. 883.
- Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Boom-operating mechanism. No. 1,153,034; Sept. 7; Gaz. vol. 218; p. 238.
- Crosby, Thomas E., Allston, Mass. Trap. No. 1,123,495; Jan. 5; Gaz. vol. 210; p. 102.
- Crosby, Thomas J., St. Louis, Mo. Cover-fastener for shipping-receptacles. No. 1,161,927; Nov. 30; Gaz. vol. 220; p. 1416.
- Croslen, William T., assignor of one-half to J. P. Woolsey, Oklahoma, Okla. Apparatus for raising water. No. 1,153,198; Sept. 14; Gaz. vol. 218; p. 332.
- Crosley, Albert D., and A. R. Stenerson, Jewell, Iowa. Gunclub-scoring machine. No. 1,141,618; June 1; Gaz. vol. 215; p. 189.
- Crosley, Powel. (See Borland, John A., assignor.)
- Cross, Alexander, Chesterton, Ind. Motor-plow. No. 1,163,895; Dec. 14; Gaz. vol. 221; p. 451.
- Cross, Anson K., Winthrop, Mass. Garment-loop. No. 1,147,213; July 20; Gaz. vol. 216; p. 824.
- Cross, Edward, Rotherham, England. Electrically-propelled road-vehicle. No. 1,154,293; Sept. 21; Gaz. vol. 218; p. 750.
- Cross, Frank L., Port Washington, N. Y., assignor to Cross Paper Feeder Company, Portland, Me. Front-registering mechanism. No. 1,134,822; Apr. 6; Gaz. vol. 213; p. 267.
- Cross, James W., assignor to The Westinghouse Brake Company, Limited, London, England. Oil-engine. No. 1,128,108; Feb. 9; Gaz. vol. 211; p. 547.
- Cross, John A., Westwood, N. J. Door-pivot. No. 1,161,623; Nov. 23; Gaz. vol. 220; p. 1264.
- Cross, Joseph G., Everett, Wash. Railway cattle-guard. No. 1,161,113; Nov. 23; Gaz. vol. 220; p. 1082.
- Cross, Joseph G., assignor of one-half to R. W. Fenn, Seattle, Wash. Apparatus for drying granular materials. No. 1,157,087; Oct. 19; Gaz. vol. 219; p. 671.
- Cross, Milton O., Detroit, Mich. Attachment for grinding-machines. No. 1,147,214; July 20; Gaz. vol. 216; p. 824.
- Cross Paper Feeder Company. (See Cross, Frank L., assignor.)
- Cross, William R., Minneapolis, Minn. Animated toy book. No. 1,139,643; May 18; Gaz. vol. 214; p. 749.
- Crossen, Edgar H., Franklin, Pa. Oil-engine. No. 1,148,577; Aug. 3; Gaz. vol. 217; p. 34.
- Crossland, George, Worcester, Mass. Curling hair yarn and the like. No. 1,162,983; Dec. 7; Gaz. vol. 221; p. 86.
- Crossland, George, Reynoldsville, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pile-fabric loom. No. 1,126,714; Feb. 2; Gaz. vol. 211; p. 16.
- Crossland, George, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Woven pile fabric. No. 1,139,495; May 18; Gaz. vol. 214; p. 698.
- Crossland, George, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pile fabric. No. 1,142,149; June 8; Gaz. vol. 215; p. 410.
- Crossland, William B., Newport, Ark. Speed-alarm. No. 1,136,410; Apr. 20; Gaz. vol. 213; p. 908.
- Crossley, Samuel G., assignor of forty-nine-one hundredths to D. S. Donahay, Philadelphia, Pa. Rotary valve for internal-combustion engines. No. 1,148,288; July 27; Gaz. vol. 216; p. 1229.
- Crossman, Martin R., Boston, Mass. Soap-bubbler. No. 1,155,470; Oct. 5; Gaz. vol. 219; p. 51.
- Croston, George, Hoquiam, Wash. Steering-wheel lock for bicycles, motor-cycles, or the like. No. 1,146,053; July 13; Gaz. vol. 216; p. 398.
- Croston, George, Hoquiam, Wash. Automatic mallet or plugger. No. 1,164,475; Dec. 14; Gaz. vol. 221; p. 654.
- Crotly, Ashel W., and W. M. Sawyer, Chicago, Ill. Culvert. No. 1,149,736; Aug. 10; Gaz. vol. 217; p. 549.
- Crouch, Albert W., assignor to Milwaukee Yacht & Boat Company, Milwaukee, Wis. Wind-shield. No. 1,159,476; Nov. 9; Gaz. vol. 220; p. 404.
- Crouch & Fitzgerald. (See Gilmore, Edward O., assignor.)
- Crouch, John, Wilmerding, and F. S. Robbins, Edgewood, Pa. Wheel-flange-lubricating device. No. 1,160,385; Nov. 16; Gaz. vol. 220; p. 779.
- Crouch, Thomas C., assignor of two-thirds to W. A. Gilchrist, Saskatoon, Saskatchewan, Canada. Fuel-atomizer for internal-combustion engines. No. 1,142,674; June 8; Gaz. vol. 215; p. 593.
- Crouch, Thomas E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Screwless knob-shank. No. 1,139,496; May 18; Gaz. vol. 214; p. 698.
- Crouse, Beecher M., Utica, N. Y. Union suit. No. 1,135,668; Apr. 13; Gaz. vol. 213; p. 606.
- Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
- Crouse-Hinds Company. (See Bissell and Gidley, assignors.)

Alphabetical list of patentees—Continued.

- Crouse-Hinds Company. (See Bissell and Smith, assignors.)
- Crouse-Hinds Company. (See Clary and Bissell, assignors.)
- Crouse-Hinds Company. (See Magoveny, William G., assignor.)
- Crouse-Hinds Company. (See Mantel and Eaton, assignors.)
- Crouse-Hinds Company. (See Olley, Raymond H., assignor.)
- Crouse-Hinds Company. (See Smith and Mantel, assignors.)
- Crouse, John J., Waterbury, Conn. Fuse-carrier. No. 1,160,386; Nov. 16; Gaz. vol. 220; p. 779.
- Crouse, Ray M., Great Bend, Kans. Folding crate. No. 1,155,404; Oct. 5; Gaz. vol. 219; p. 28.
- Crouthamel, Howard, Chicago, Ill. Baker's oven. No. 1,139,349; May 11; Gaz. vol. 214; p. 608.
- Crow, James R., Cleveland, Tenn. Rotary engine. No. 1,133,937; Mar. 30; Gaz. vol. 212; p. 1606.
- Crow, James R., Cleveland, Tenn. Automatic crossing-signal. No. 1,151,665; Aug. 31; Gaz. vol. 217; p. 1385.
- Crow, W. R., et al. (See Wright, John T., assignor.)
- Crow, William H., San Ysidro, Cal. Pipe-patching device. No. 1,156,890; Oct. 19; Gaz. vol. 219; p. 600.
- Crowder, Charles F., Seattle, Wash. Autographic register. No. 1,161,456; Nov. 23; Gaz. vol. 220; p. 1207.
- Crowder, Frederick A., Lake City, Fla. Display-cabinet. No. 1,164,578; Dec. 14; Gaz. vol. 221; p. 688.
- Crowdus, Walter A., assignor to A. R. Porter, Chicago, Ill. Machine for making storage-battery plates. No. 1,145,563; July 6; Gaz. vol. 216; p. 205.
- Crowdus, Walter A., assignor of one-half to Atkinson, Mentzer & Company, Chicago, Ill. Storage battery. No. 1,155,046; Sept. 28; Gaz. vol. 218; p. 1035.
- Crowdus, Walter A., assignor of one-half to Atkinson, Mentzer & Company, Chicago, Ill. Storage battery. No. 1,155,047; Sept. 28; Gaz. vol. 218; p. 1035.
- Crowe, Frederick C., Spokane, Wash. Pump system. No. 1,128,590; Feb. 16; Gaz. vol. 211; p. 763.
- Crowe, George W., Santa Cruz, Cal. Ore disintegrating and screening machine. No. 1,156,394; Oct. 12; Gaz. vol. 219; p. 398.
- Crowe, Ion B. (See Cash and Crowe.)
- Crowe, John, assignor to Specialty Shoe Machinery and Tool Company, St. Joseph, Mo. Nail-feed for shoe-nailing machines. No. 1,123,252; Jan. 5; Gaz. vol. 210; p. 17.
- Crowe, Margaret R., Lucasville, Ohio. Culinary implement. No. 1,164,785; Dec. 21; Gaz. vol. 221; p. 803.
- Crowe, Myron L., Holliston, Mass. Rod for card-cabinets. No. 1,161,290; Nov. 23; Gaz. vol. 220; p. 1148.
- Crowe, Paul L., Jersey City, N. J., and A. Frankenhelm, New York, N. Y.; said Frankenhelm assignor to said Crowe. Chain-grate mechanism. No. 1,136,941; Apr. 27; Gaz. vol. 213; p. 1131.
- Crowe, Sam'l H. (See Sanders, Alexander, assignor.)
- Crowel, Roland H., Fort Wayne, Ind. Door-clamp. No. 1,138,088; May 4; Gaz. vol. 214; p. 130.
- Crowell, Arthur F., Spokane, Wash. Harness. No. 1,136,894; Apr. 20; Gaz. vol. 213; p. 1078.
- Crowell, Charles H., Swampscott, Mass. Paper rewinding and measuring machine. No. 1,145,469; July 6; Gaz. vol. 216; p. 174.
- Crowell, Charles H., Swampscott, Mass. Stay-strip. No. 1,149,344; Aug. 10; Gaz. vol. 217; p. 410.
- Crowell, Charles H., Swampscott, Mass. Stay-strip. No. 1,150,418; Aug. 17; Gaz. vol. 217; p. 854.
- Crowell, Charles W., Knoxville, Tenn. Steam-boiler. No. 1,159,180; Nov. 2; Gaz. vol. 220; p. 268.
- Crowell, Charles W., Salisbury, N. C. Superheater for steam-boilers. No. 1,159,181; Nov. 2; Gaz. vol. 220; p. 268.
- Crowell, John H., Vineyard Haven, Mass. Press. No. 1,148,445; July 27; Gaz. vol. 216; p. 1283.
- Crowley, John T., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Gaiter. No. 1,124,710; Jan. 12; Gaz. vol. 210; p. 573.
- Crowley, John T., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Miner's shoe. No. 1,155,644; Oct. 5; Gaz. vol. 219; p. 111.
- Crowley, John W., Chicago, Ill. Clutch. No. 1,165,392; Dec. 28; Gaz. vol. 221; p. 1053.
- Crown Cork & Seal Company. (See Bailey, William, assignor.)
- Crown Cork & Seal Company, The. (See Carper, Albert A., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See La Porte, Norbert M., assignor.)
- Crown, Eugene H., Sacramento, Cal., assignor to Flory Carry Iron Company, St. Louis, Mo. Draw-bar carry-iron. No. 1,157,088; Oct. 19; Gaz. vol. 219; p. 671.
- Crown, Eugene H., Sacramento, Cal., C. T. Westlake and C. S. Shallenberger, assignors to Flory Carry Iron Company, St. Louis, Mo. Draw-bar carry-iron. No. 1,148,150; July 27; Gaz. vol. 216; p. 1181.
- Crown Hardware Manufacturing Company, The. (See Hartzell, Forest H., assignor.)
- Crown Manufacturing Company, The. (See Hartzell, Forest H., assignor.)
- Crown Mill Equipment Company. (See Fowler, George A., assignor.)
- Crown Throat & Opener Company. (See Vaughan, Harry L., assignor.)
- Crownfield, David, Cambridge, Mass. Light-distributor. No. 1,126,958; Feb. 2; Gaz. vol. 211; p. 102.
- Crowther, John C. (See Martin and Crowther.)
- Crozier, Thomas W., Christiansburg, Va. Nut-locking washer. No. 1,150,745; Aug. 17; Gaz. vol. 217; p. 967.
- Crucet, Joseph M., New York, N. Y. Relief ornament and making the same. No. 1,154,384; Sept. 21; Gaz. vol. 218; p. 783.
- Crucible Steel Company of America. (See Shonnard, Harold W., assignor.)
- Cruickshank, James R., Calgary, Alberta, Canada. Casting dental plates. No. 1,150,102; Aug. 17; Gaz. vol. 217; p. 743.
- Crull, Jacob M., Harrisburg, Pa. Mailing device. No. 1,151,442; Aug. 24; Gaz. vol. 217; p. 1261.
- Crum, Irvin, Selma, Ala. Air-brake for motor-cars. No. 1,141,939; June 8; Gaz. vol. 215; p. 336.
- Crum, Martin A., Granbury, Tex. Cotton-chopper. No. 1,123,699; Jan. 5; Gaz. vol. 210; p. 171.
- Crum, Winfield S., Wilkinson, Ind. Sanitary stock-tank. No. 1,136,510; Apr. 20; Gaz. vol. 213; p. 943.
- Crumay, Katherine, et al. (See Jobke, August F., assignor.)
- Crumbaugh, George P. (See Grove and Crumbaugh.)
- Crume, John J., et al. (See Howard, Jewell, assignor.)
- Crumley, Gertrude, Cherokee, Okla. Stove attachment. No. 1,151,569; Aug. 31; Gaz. vol. 217; p. 1352.
- Crump Company, The. (See Crump, Samuel, assignor.)
- Crump Company, The. (See Crump and Hilsinger, assignors.)
- Crump, Robert B., assignor to W. Meyer, New York, N. Y. Pneumatic hammer. No. 1,128,416; Feb. 16; Gaz. vol. 211; p. 702.
- Crump, Samuel, assignor to The Crump Company, New York, N. Y. Manufacture of printers' rollers. No. 1,141,820; June 1; Gaz. vol. 215; p. 83.
- Crump, Samuel, Montclair, and A. W. Hilsinger, Orange, N. J., assignors to The Crump Company, New York, N. Y. Printing-press. No. 1,154,002; Sept. 21; Gaz. vol. 218; p. 651.
- Crumpler, Joseph H., Magnolia, Ark. Fertilizer-distributor attachment. No. 1,144,464; June 29; Gaz. vol. 215; p. 1310.
- Crumpton, William J., Superior, Wis., assignor, by mesne assignments, to W. R. Heath, Buffalo, N. Y. Method and means for statistical accounting. No. 1,138,089; May 4; Gaz. vol. 214; p. 130.
- Crumpton, William J., Evanston, Ill., assignor, by mesne assignments, to W. R. Heath, Buffalo, N. Y. Register-actuating mechanism. No. 1,157,620; Oct. 19; Gaz. vol. 219; p. 854.
- Cruiser, Frederick V., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Waterproof match and making same. No. 1,127,410; Feb. 9; Gaz. vol. 211; p. 300.
- Cruiser, Frederick V., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Match-testing apparatus. No. 1,152,796; Sept. 7; Gaz. vol. 218; p. 152.
- Cruiser, Frederick V., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Match-testing apparatus. No. 1,152,797; Sept. 7; Gaz. vol. 218; p. 153.
- Cruet, Sebastian, New York, N. Y. Visiograph. No. 1,160,096; Nov. 9; Gaz. vol. 220; p. 624.
- Crusoe, Charles E. (See Gundry, James E., assignor.)
- Cruson, George E., Yountville, Cal. Derrick-fork. No. 1,153,764; Sept. 14; Gaz. vol. 218; p. 532.
- Cruson, Robert G., Fillmore, Cal. Fruit-gatherer. No. 1,143,512; June 15; Gaz. vol. 215; p. 925.
- Crutchley, Harry, Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,142,800; June 15; Gaz. vol. 215; p. 676.
- Cruttenden, Henry L., and F. L. Lawrence, Northfield, Minn. Heel-mat for pianos. No. 1,157,846; Oct. 26; Gaz. vol. 219; p. 999.
- Cryder, Lawrence E., Mount Gilead, Ohio. Transmission-gearing. No. 1,137,703; Apr. 27; Gaz. vol. 213; p. 1399.
- Csanyi, Henry, assignor to Maxivolt Primary Battery Co., New York, N. Y. Incandescent electric lamp. No. 1,124,213; Jan. 5; Gaz. vol. 210; p. 347.
- Csanyi, Henry, assignor to Maxivolt Primary Battery Co., New York, N. Y. Primary battery. No. 1,125,970; Jan. 26; Gaz. vol. 210; p. 1089.
- Csanyi, Henry, assignor to Maxivolt Primary Battery Co., New York, N. Y. Electric battery. No. 1,130,710; Mar. 9; Gaz. vol. 212; p. 338.
- Csanyi, Henry, assignor to Maxivolt Primary Battery Co., New York, N. Y. Safety-lamp. No. 1,154,615; Sept. 28; Gaz. vol. 218; p. 890.
- Csanyi, Jhan, Perryopolis, Pa. Wrench. No. 1,133,107; Mar. 23; Gaz. vol. 212; p. 1275.
- Csizar, Andras, Duquesne, Pa. Fly-trap. No. 1,148,660; Aug. 3; Gaz. vol. 217; p. 64.
- Cubiak, Michael F., assignor of one-half to J. H. Goss, Detroit, Mich. Adjustable scale-holder. No. 1,163,512; Dec. 7; Gaz. vol. 221; p. 272.

Alphabetical list of patentees—Continued.

- Cuculic, Joseph, Fiume, Austria-Hungary. Circuit-breaker. No. 1,153,765; Sept. 14; Gaz. vol. 218; p. 533.
- Cudney, Frederick J., Golden Valley, N. D. Truss-elevator. No. 1,137,586; Apr. 27; Gaz. vol. 213; p. 1362.
- Cudosky, Antoni and L., Passaic, N. J. Fire-alarm-box attachment. No. 1,164,786; Dec. 21; Gaz. vol. 221; p. 803.
- Cudosky, Ludwika. (See Cudosky, Antoni and L.)
- Cudoszki, Anthony, Passaic, N. J. Wrench. No. 1,138,847; May 11; Gaz. vol. 214; p. 435.
- Cuellas, Peter. (See Laborda, Richard, assignor.)
- Cuenot, Paul A., and L. G. Fischer, Steelton, assignors to Pennsylvania Steel Company, Philadelphia, Pa. Punching-machine. No. 1,155,552; Oct. 5; Gaz. vol. 219; p. 80.
- Cuff, Alan D. (See Davis and Cuff.)
- Cuff, George, Poyntette, Wis. Windmill-operating mechanism. No. 1,143,811; June 22; Gaz. vol. 215; p. 1052.
- Culbertson, Charles P., Bay City, Tex. Wrench. No. 1,151,088; Aug. 24; Gaz. vol. 217; p. 1142.
- Culbertson, Glenn, Frankfort, Ind. Grain-shocker. No. 1,166,329; Dec. 28; Gaz. vol. 221; p. 1385.
- Culbertson, William A., McCool, Ind. Paper receptacle. No. 1,147,611; July 20; Gaz. vol. 216; p. 963.
- Culbreath, Thomas S., Pratt, Kans. Road-making machine. No. 1,166,188; Dec. 28; Gaz. vol. 221; p. 1334.
- Culemeyer, Hans, Feine, Germany. Device for unloading trucks or freight-cars by tilting them. No. 1,135,669; Apr. 13; Gaz. vol. 213; p. 606.
- Culhane, William A., Detroit, Mich. Nail-holder. No. 1,152,301; Aug. 31; Gaz. vol. 217; p. 1604.
- Culkins, William H., Albion, Mich. Railway-crossing. No. 1,144,893; June 29; Gaz. vol. 215; p. 1458.
- Cull, Louis D., assignor to D. Round & Son, Cleveland, Ohio. Pulley-block. No. 1,152,608; Sept. 7; Gaz. vol. 218; p. 83.
- Cullen, John B., New York, N. Y. Brush-holder for motors and dynamos. No. 1,140,803; May 25; Gaz. vol. 214; p. 1189.
- Cullen, Joseph B., Milwaukee, Wis. Mail-box. No. 1,151,666; Aug. 31; Gaz. vol. 217; p. 1385.
- Cullen, P. H., et al. (See Carpenter, Mason P., assignor.)
- Cullen, Thomas J., Jersey City, N. J. Steam-heating apparatus. No. 1,124,301; Jan. 12; Gaz. vol. 210; p. 426.
- Cullen, William D., Noblesville, Ind. Bath-tub seat. No. 1,145,975; July 13; Gaz. vol. 216; p. 369.
- Cullen, William J., Bayonne, N. J. Bag-splitter. No. 1,164,476; Dec. 14; Gaz. vol. 221; p. 655.
- Culling, Merritt A. (See Ruffum and Culling.)
- Cullum, Hubert J. (See Roberts and Cullum.)
- Cullum, Walter B., Grafton, W. Va. Valve. No. 1,146,850; July 20; Gaz. vol. 216; p. 696.
- Culp, Clifford E., and A. T. Wilks, Stella, Mo. Stone raker and loader. No. 1,139,168; May 11; Gaz. vol. 214; p. 547.
- Culp, John W., Mishawaka, Ind. Card game. No. 1,145,230; July 6; Gaz. vol. 216; p. 90.
- Culter & Proctor Stove Co. (See Cooley, Proctor P., assignor.)
- Culver, Arthur C., and A. W. Russel, assignors to Russel Motor Axle Company, Detroit, Mich. Drive-axle construction for motor-vehicles. No. 1,159,652; Nov. 9; Gaz. vol. 220; p. 467.
- Culver, Cummings O., Smithfield, Ill. Concrete silo. No. 1,148,151; July 27; Gaz. vol. 216; p. 1181.
- Culver, Edward W. (See Owen, Thomas M., assignor.)
- Culver, Fred A., Worcester, Mass. Junction-box and switch. No. 1,165,572; Dec. 28; Gaz. vol. 221; p. 1115.
- Culver, Frederick S., Taunton, Mass. Loop-banding machine. No. 1,161,457; Nov. 23; Gaz. vol. 220; p. 1207.
- Culver, George A., Beatrice, Nebr., assignor of one-half to T. W. Keenan, Shenandoah, Iowa. Pressure-alarm for pneumatic tires. No. 1,133,269; Mar. 30; Gaz. vol. 212; p. 1368.
- Culverwell, Joseph F., Washington, D. C., assignor to Elliott-Fisher Company, Harrisburg, Pa. Restoring mechanism for adding-machines. No. 1,141,940; June 8; Gaz. vol. 215; p. 337.
- Cumberland Foundry and Manufacturing Company. (See Tipple, James D., assignor.)
- Cumiskey, Frank. (See Lindsay, William M., assignor.)
- Cummer, William M., Cleveland, Ohio. Signal for automobiles. No. 1,136,895; Apr. 20; Gaz. vol. 213; p. 1079.
- Cummings, Alva A., Delaware, Okla. Automatic cut-off. No. 1,140,666; May 25; Gaz. vol. 214; p. 1144.
- Cummings, Benton O., and D. S. McArthur, Portland, Ark. Plow. No. 1,149,811; Aug. 10; Gaz. vol. 217; p. 577.
- Cummings, Charles W., assignor of one-half to C. N. Dunnell, Atolia, Cal. Carbureter. No. 1,129,794; Feb. 23; Gaz. vol. 211; p. 1217.
- Cummings, Elijah P. (See Arthur, Russell, assignor.)
- Cummings, Gertrude J. (See Cummings, John P. and G. J.)
- Cummings, Henry H., Newton, Mass. Ship's speed or current indicator and recorder. No. 1,128,297; Feb. 16; Gaz. vol. 211; p. 663.
- Cummings, Henry H., Newton, Mass. Ship's log. No. 1,128,417; Feb. 16; Gaz. vol. 211; p. 703.
- Cummings, John P. and G. J., Chicago, Ill. Brush. No. 1,127,195; Feb. 2; Gaz. vol. 211; p. 187.
- Cummings, Lincoln C. (See Jones, Arthur S., assignor.)
- Cummings, Robert A., Pittsburgh, Pa. Adjustable false work. No. 1,163,641; Dec. 14; Gaz. vol. 221; p. 361.
- Cummins, Arthur E., Hampstead, assignor of one-half to R. Bridge, Manchester, England. Press for compressing and baling cotton and other materials. No. 1,147,215; July 20; Gaz. vol. 216; p. 825.
- Cummins, John D., Marshalltown, Iowa. Governor. No. 1,149,898; Aug. 10; Gaz. vol. 217; p. 609.
- Cummins, Norman W., assignor to The Burns & Bassick Company, Bridgeport, Conn. Lubricator. No. 1,129,648; Feb. 23; Gaz. vol. 211; p. 1169.
- Cummins, Norman W., assignor to The Burns & Bassick Company, Bridgeport, Conn. Hood-fastener for automobiles. No. 1,140,503; May 25; Gaz. vol. 214; p. 1088.
- Cummins, Norman W., assignor to The Burns & Bassick Company, Bridgeport, Conn. Grease-cup. No. 1,143,688; June 22; Gaz. vol. 215; p. 1012.
- Cummins, Norman W., assignor to The Burns & Bassick Company, Bridgeport, Conn. Grease-cup. No. 1,148,289; July 27; Gaz. vol. 216; p. 1229.
- Cummins, Norman W., assignor to The Burns & Bassick Company, Bridgeport, Conn. Fastening device for auto-hoods. No. 1,148,290; July 27; Gaz. vol. 216; p. 1229.
- Cuneo, Biggia, et al. (See Devine, Manasses, assignor.)
- Cuneo, Frank. (See Diaferia, Joseph, assignor.)
- Cuneo, John N., et al. (See Devine, Manasses, assignor.)
- Cuniff, James E., Buffalo, N. Y. Water-gage. No. 1,141,381; June 1; Gaz. vol. 215; p. 106.
- Cunneen, James M., Jersey City, N. J. Oiling device. No. 1,153,608; Sept. 14; Gaz. vol. 218; p. 480.
- Cuniff, John V. (See Bouchard, Cuniff, and Joncas.)
- Cuniff, John V., Fall River, assignor to J. K. Lanning, Boston, Mass. Winding mechanism. No. 1,141,892; June 1; Gaz. vol. 215; p. 282.
- Cuniff, John V., Fall River, assignor to J. K. Lanning, Dorchester, Mass. Yarn or thread package and winding same. No. 1,141,893; June 1; Gaz. vol. 215; p. 282.
- Cuniff, John V., Fall River, assignor to J. K. Lanning, Dorchester, Mass. Winding mechanism for forming yarn or thread packages. No. 1,141,894; June 1; Gaz. vol. 215; p. 283.
- Cuniff, John V., assignor to J. K. Lanning, Fall River, Mass. Spinning-ring. No. 1,161,800; Nov. 23; Gaz. vol. 220; p. 1325.
- Cunningham, Alexander Y., assignor to The D. F. Briggs Company, Attleboro, Mass. Watch-holder attachment for bracelets. No. 1,130,381; Mar. 2; Gaz. vol. 212; p. 188.
- Cunningham, Andrew C., North Chicago, Ill. Agitator. No. 1,141,528; June 1; Gaz. vol. 215; p. 158.
- Cunningham, Andrew O., St. Louis county, Mo. Spring-jaw wrench. No. 1,164,073; Dec. 14; Gaz. vol. 221; p. 515.
- Cunningham, Auburn S., Marion, Ohio. Time-recorder. No. 1,143,040; June 15; Gaz. vol. 215; p. 761.
- Cunningham, Bernard J., Corona, N. Y. Bottle. No. 1,158,987; Nov. 2; Gaz. vol. 220; p. 200.
- Cunningham, Charles G., New York, N. Y. Centrifugally-operated contact device. No. 1,132,653; Mar. 23; Gaz. vol. 212; p. 1109.
- Cunningham, Charles G., New York, N. Y. Automatic circuit-controlling apparatus. No. 1,132,654; Mar. 23; Gaz. vol. 212; p. 1110.
- Cunningham, Emma M., Brooklyn, N. Y. Shirt-waist supporter. No. 1,127,598; Feb. 9; Gaz. vol. 211; p. 367.
- Cunningham, Frank L., Montreal, Quebec, Canada. Mop. No. 1,160,265; Nov. 16; Gaz. vol. 220; p. 737.
- Cunningham, James A., Independence, Kans. Hose-coupling. No. 1,153,895; Sept. 21; Gaz. vol. 218; p. 615.
- Cunningham, James L., Wilmington, Del. Drinking-fountain attachment. No. 1,142,675; June 8; Gaz. vol. 215; p. 593.
- Cunningham, James P., Little Rock, Ark. Unlimited-capacity direct-return trap. No. 1,148,959; Aug. 3; Gaz. vol. 217; p. 168.
- Cunningham, James P., Cincinnati, Ohio, assignor to W. R. Grissel, Cedar Rapids, Iowa. Automatic roller-bearing for window-sashes. No. 1,127,196; Feb. 2; Gaz. vol. 211; p. 187.
- Cunningham, John G., and F. W. Manion, Waterford, N. Y. Tension-regulator for spinning-machines. No. 1,137,053; Apr. 27; Gaz. vol. 213; p. 1172.
- Cunningham, John J., Gadsden, Ala. Bali-cock. No. 1,159,182; Nov. 2; Gaz. vol. 220; p. 269.
- Cunningham, John P., York, Nebr. Tire-tool. No. 1,157,763; Oct. 26; Gaz. vol. 219; p. 970.
- Cunningham, John W., assignor to Cunningham Tank Protector Company, Tulsa, Okla. Oil-tank protector. No. 1,159,831; Nov. 9; Gaz. vol. 220; p. 533.
- Cunningham, Michael G. (See Belknap and Cunningham.)
- Cunningham, Monroe S., Larchwood, Iowa. Shuttle-holder. No. 1,161,624; Nov. 23; Gaz. vol. 220; p. 1264.
- Cunningham, Orval J., Kansas City, Mo. Anesthetic apparatus. No. 1,129,171; Feb. 23; Gaz. vol. 211; p. 1002.
- Cunningham, Richard H., New York, N. Y. Ignition apparatus for automobiles and the like. No. 1,127,197; Feb. 2; Gaz. vol. 211; p. 188.

Alphabetical list of patentees—Continued.

- Cunningham, Richard H., New York, N. Y., assignor to Splittorf Electrical Company, Newark, N. J. Brush-holder and terminal for connecting electric cable. No. 1,132,304; Mar. 16; Gaz. vol. 212; p. 935.
- Cunningham Tank Protector Company. (See Cunningham, John W., assignor.)
- Cunningham, William E., *et al.* (See Clinton, Michael, assignor.)
- Cunningham, William J., assignor of one-half to G. H. Deeves, Chicago, Ill. Carbureter. No. 1,162,041; Nov. 30; Gaz. vol. 220; p. 1455.
- Cuppett, William B., Portsmouth, Ohio. Veneered and reinforced woodwork. No. 1,133,106; Mar. 23; Gaz. vol. 212; p. 1275.
- Cuppy, John W., Baltimore, Md. Mop-wringer. No. 1,147,612; July 20; Gaz. vol. 216; p. 963.
- Curdie, Joseph F. (See McMillan and Curdie.)
- Curnow, Francis A. (See Lanyon and Curnow.)
- Curran, Edmund, assignor to J. T. Fuller, Boston, Mass. Dowel-feeding machine. No. 1,132,533; Mar. 16; Gaz. vol. 212; p. 1017.
- Curran, Leo T., and J. H. Widener, Kansas City, Mo. Paper-cutting machine. No. 1,162,343; Nov. 30; Gaz. vol. 220; p. 1561.
- Curran, Stanley, assignor of one-half to D. Thomas, Vancouver, British Columbia, Canada. Puppet-valve for internal-combustion engines. No. 1,129,555; Feb. 23; Gaz. vol. 211; p. 1137.
- Curran, William C., Cincinnati, Ohio. Sign-plate. No. 1,127,599; Feb. 9; Gaz. vol. 211; p. 367.
- Curran, William C., Cincinnati, Ohio. Opener. No. 1,138,456; May 4; Gaz. vol. 214; p. 259.
- Currie, Joseph S., Ginsite, Tex. Stalk-cutter. No. 1,135,363; Apr. 13; Gaz. vol. 213; p. 496.
- Currie, William E. (See Simpson, Selden L., assignor.)
- Currie, William J. (See Robinson and Currie.)
- Currier, Arthur L. (See Peers and Currier.)
- Currier, Ernest E. (See Hoyt and Currier.)
- Currier, Harvey R., Danville, Ill. Dirigible-headlight control. No. 1,157,764; Oct. 26; Gaz. vol. 219; p. 970.
- Curry, A. O., *et al.* (See Pohlman, Frank W., assignor.)
- Curry, Amry M., Pioneer, Tex. Portable bath-cabinet. No. 1,125,008; Jan. 12; Gaz. vol. 210; p. 680.
- Curry, Arthur O., San Bernardino, Cal. Crank-handle. No. 1,146,054; July 13; Gaz. vol. 216; p. 398.
- Curry, Arthur O., San Bernardino, Cal. Controlling-valve. No. 1,155,217; Sept. 28; Gaz. vol. 218; p. 1095.
- Curry, Claud D., Memphis, Tenn. Paper-associating machine. No. 1,155,894; Oct. 5; Gaz. vol. 219; p. 198.
- Curry, Claud D., Brooklyn, N. Y., assignor of two-thirds to American Assembling Machine Company. Feeding mechanism for paper-associating machines. (Reissue.) No. 13,895; Mar. 30; Gaz. vol. 212; p. 1657.
- Curry, Joseph J., New York, N. Y. Automatic control for automobiles. No. 1,156,760; Oct. 12; Gaz. vol. 219; p. 525.
- Curry, William H., Lake City, Iowa. Ground-connector. No. 1,154,099; Sept. 21; Gaz. vol. 218; p. 685.
- Curry, William J., Vancouver, British Columbia, Canada. Artificial denture. No. 1,128,664; Feb. 16; Gaz. vol. 211; p. 788.
- Curtain Supply Co., The. (See Forsyth, William H., assignor.)
- Curtain Supply Company, The. (See Downing, Ira S., assignor.)
- Curtain Supply Company. (See Whitmore, Edward E., assignor.)
- Curtin, David F., Chicago, Ill. Sanitary soda-cup. No. 1,139,018; May 11; Gaz. vol. 214; p. 495.
- Curtin, W. W., *et al.* (See Overly and Thompson, assignors.)
- Curtis, Allen, Glens Falls, assignor to International Paper Company, New York, N. Y. Grinder for the production of wood-pulp. No. 1,164,074; Dec. 14; Gaz. vol. 221; p. 515.
- Curtis, Almon W., Cortland, N. Y. Spring-bar for vehicles. No. 1,160,858; Nov. 16; Gaz. vol. 220; p. 948.
- Curtis, Arthur P., assignor to The Hunter Arms Co., Fulton, N. Y. Firearm. No. 1,159,183; Nov. 2; Gaz. vol. 220; p. 269.
- Curtis, Arthur P., assignor to The Hunter Arms Co., Fulton, N. Y. Action for breakdown guns. No. 1,160,581; Nov. 16; Gaz. vol. 220; p. 849.
- Curtis, Arthur R. (See Sabin, Tozer, and Curtis.)
- Curtis, Arthur W., Seattle, Wash. Apparatus for stowing cargo. No. 1,125,009; Jan. 12; Gaz. vol. 210; p. 680.
- Curtis, Austin M. (See Ashton and Curtis.)
- Curtis Brothers and Company. (See Madsen, Sern, assignor.)
- Curtis, Charles G., New York, N. Y., and R. L. Lovell; said Lovell assignor to Fore River Shipbuilding Company, Quincy, Mass. Steam prime mover for marine propulsion. No. 1,150,250; Aug. 17; Gaz. vol. 217; p. 797.
- Curtis & Company Manufacturing Company. (See Steedman, George F., assignor.)
- Curtis, Edgar R., Brighton, and J. W. Huxley, Stoughton, near Guildford, England. Apparatus for clearing beer. No. 1,130,479; Mar. 2; Gaz. vol. 212; p. 224.
- Curtis, Frank C., Troy, N. Y. Folding-machine. No. 1,129,556; Feb. 23; Gaz. vol. 211; p. 1137.
- Curtis, Harry E., West Hampstead, London, England. Surgical corset. No. 1,134,441; Apr. 6; Gaz. vol. 213; p. 130.
- Curtis, Jesse T., Bement, Ill. Explosive-engine. No. 1,141,443; June 1; Gaz. vol. 215; p. 128.
- Curtis, Jesse T., Bement, Ill. Explosion-engine. No. 1,165,324; Dec. 21; Gaz. vol. 221; p. 989.
- Curtis, John D., assignor to Richardson Manufacturing Company, Worcester, Mass. Wheelbarrow. No. 1,134,258; Apr. 6; Gaz. vol. 213; p. 64.
- Curtis, John D., assignor to Richardson Manufacturing Company, Worcester, Mass. Fertilizer-distributor. No. 1,164,579; Dec. 14; Gaz. vol. 221; p. 688.
- Curtis & Jones Co. (See Hill, Howard V., assignor.)
- Curtis, Lewis A., Hartford, assignor of one-third to T. E. Woods, New Britain, Conn. Railway-tie. No. 1,151,346; Aug. 24; Gaz. vol. 217; p. 1229.
- Curtis, Lewis B., Bridgeport, Conn. Die-stock. No. 1,140,504; May 25; Gaz. vol. 214; p. 1089.
- Curtis, Lewis B., Bridgeport, Conn. Machine for automatically cutting off pipe, bars, &c. No. 1,160,387; Nov. 16; Gaz. vol. 220; p. 779.
- Curtis, Logan, Browns, Ill. Halter. No. 1,130,711; Mar. 9; Gaz. vol. 212; p. 338.
- Curtis, Myron S., Pawtucket, R. I. Automobile gear-shift. No. 1,131,042; Mar. 9; Gaz. vol. 212; p. 451.
- Curtis Publishing Company, The. (See Rehfuess, Martin O. and J. G., assignors.)
- Curtis Publishing Company, The. (See Stiefel, Frank C., assignor.)
- Curtis, Robert W., New York, N. Y. Burette. No. 1,136,108; Apr. 20; Gaz. vol. 213; p. 798.
- Curtis-Ward Company. (See Ward, Webster L., assignor.)
- Curtis, William G., St. Louis, Mo. Barrel-truck. No. 1,165,076; Dec. 21; Gaz. vol. 221; p. 904.
- Curtiss, Glenn H., Hammondsport, N. Y. Flying-boat. No. 1,142,754; June 8; Gaz. vol. 215; p. 619.
- Curtiss, Glenn H., Hammondsport, N. Y. Heavier-than-air flying-machine. No. 1,156,215; Oct. 12; Gaz. vol. 219; p. 333.
- Curtiss, Harry E., San Francisco, Cal. Combined shoe-polisher and dauber. No. 1,166,330; Dec. 28; Gaz. vol. 221; p. 1386.
- Curtiss, James, *et al.* (See Jameson, Charles V., assignor.)
- Curtright, Lucius C., *et al.* (See Wine, Noah L., assignor.)
- Curwen, Henry R., Ingram, assignor to Safety Specialty Company, Pittsburgh, Pa. Combined steering and braking mechanism. No. 1,148,291; July 27; Gaz. vol. 216; p. 1229.
- Curwen, Samuel M., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,138,357; May 4; Gaz. vol. 214; p. 224.
- Cusack, Harold J., Oak Park, Ill., assignor to The Thomas Cusack Company. Advertising device. No. 1,140,446; May 25; Gaz. vol. 214; p. 1066.
- Cushing, Bruce L., and E. W. Errick, Buffalo, N. Y. Humidifying and humidity-regulating apparatus. No. 1,160,695; Nov. 16; Gaz. vol. 220; p. 893.
- Cushing, Samuel D., Westminster, London, England, assignor to J. B. Semple, Sewickley, Pa. Projectile. No. 1,159,653; Nov. 9; Gaz. vol. 220; p. 467.
- Cushion Fabric Company. (See Royce, Charles W., assignor.)
- Cushman, Ara, Jr. (See Wilkinson, Noah, assignor.)
- Cushman Chuck Company, The. (See Sloan, Harry E., assignor.)
- Cushman & Denison Manufacturing Co. (See Woldon, Frank, assignor.)
- Cushman, Edith P., Methuen, Mass. Arch-support. No. 1,163,395; Dec. 7; Gaz. vol. 221; p. 232.
- Cushman, Lyander W., Ontario, Cal. Orchard-furrower. No. 1,130,963; Mar. 9; Gaz. vol. 212; p. 424.
- Cusick, Daniel W., Jr. (See Andersson, Carl E., assignor.)
- Cusick, Hyland L., Pittsburgh, Pa. Game. No. 1,139,497; May 18; Gaz. vol. 214; p. 698.
- Cusick, Hyland L., Pittsburgh, Pa. Spring-gun. No. 1,162,140; Nov. 30; Gaz. vol. 220; p. 1491.
- Cusick, Marguerite. (See Andersson, Carl E., assignor.)
- Cusick, Walter M., Boston, Mass. Internal-combustion engine. No. 1,142,312; June 8; Gaz. vol. 215; p. 467.
- Custar, Ignatius, New York, N. Y. Foot-arch-supporting saddle. No. 1,140,879; May 25; Gaz. vol. 214; p. 1218.
- Custer, Arthur E., Salt Lake City, Utah. Vibratory screening and sizing device. No. 1,131,478; Mar. 9; Gaz. vol. 212; p. 602.
- Custer, Burr, Marion, Ind. Torch. No. 1,137,191; Apr. 27; Gaz. vol. 213; p. 1222.
- Custer, Burr, Marion, Ind. Welding-torch. No. 1,154,974; Sept. 28; Gaz. vol. 218; p. 1011.
- Custer, Ernest O., West New York, N. J. Expandible pulley. No. 1,144,353; June 29; Gaz. vol. 215; p. 1273.
- Custer, Joseph M., Copper Hill, Va. Steering-wheel. No. 1,129,852; Mar. 2; Gaz. vol. 212; p. 7.
- Custer, Zora B., Bradford, Pa. Wheel. No. 1,150,103; Aug. 17; Gaz. vol. 217; p. 743.

Alphabetical list of patentees—Continued.

- Custis, Parke H., Brookline, assignor to The Cork Insert Company, Boston, Mass. Friction device. No. 1,127,600; Feb. 9; Gaz. vol. 211; p. 367.
- Cuthbert, John, Chicago, Ill. Wire-clamping device. No. 1,166,114; Dec. 28; Gaz. vol. 221; p. 1305.
- Cuthbertson, William, Pittsfield, Mass. Device for automatically stopping the turn-table of a phonograph. No. 1,154,975; Sept. 28; Gaz. vol. 218; p. 1012.
- Cutler, David, Baltimore, Md. Bowling-alley. No. 1,123,496; Jan. 5; Gaz. vol. 210; p. 102.
- Cutler, George E., Mount Vernon, N. Y., and B. L. Mone-smith, Cresco, Iowa. Shock-absorber. No. 1,165,573; Dec. 28; Gaz. vol. 221; p. 1115.
- Cutler, George E., Mount Vernon, N. Y., and B. L. Mone-smith, Cresco, Iowa. Shock-absorbing device. No. 1,166,354; Dec. 28; Gaz. vol. 221; p. 1394.
- Cutler-Hammer Clutch Co. (See Barnum, Thomas E., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Anderson, Carl J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Barnum, Thomas E., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Bernecker, George E., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Carpenter, Charles E., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Date, William E., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Denhard, Harry W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Fleet, Arthur H., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Goldenstein, Maurice M., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Horton, Albert J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Kruse, Charles J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Layman, Frank E., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Maage, Alfred E. J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Radley, Guy R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Reisbach, Gustav B., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Rice, Charles M., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Schureman, Jacob L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Shallcross, Wilmer M., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
- Cutler-Hammer Mfg. Co., The. (See Steen, Halfdan A., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Tatum, Lewis L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Townsend, Frank P., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Yerger, Charles W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Zimmer, Paul H., assignor.)
- Cutler, Henry H., Milwaukee, Wis. Gasolene-engine. No. 1,139,106; May 11; Gaz. vol. 214; p. 526.
- Cutler, Henry H., Milwaukee, Wis. Controller for electric motors. No. 1,154,976; Sept. 28; Gaz. vol. 218; p. 1012.
- Cutler, Isabella M., Sawtelle, Cal. Display device. No. 1,152,795; Sept. 7; Gaz. vol. 218; p. 152.
- Cutler, Joseph W., Rochester, N. Y. Photographic-roll holder. No. 1,144,934; June 29; Gaz. vol. 215; p. 1470.
- Cutler, Joseph W., assignor to Cutler Mail Chute Company, Rochester, N. Y. Mail-box. No. 1,138,633; May 11; Gaz. vol. 214; p. 356.
- Cutler Mail Chute Company. (See Cutler, Joseph W., assignor.)
- Cutler Mail Chute Company. (See Smith, Arthur K., assignor.)
- Cutler, William C., Los Angeles, Cal. Ice-cream-packing machine. No. 1,128,762; Feb. 16; Gaz. vol. 211; p. 821.
- Cutler, William C., Los Angeles, Cal. Wrapping-machine. No. 1,133,621; Mar. 30; Gaz. vol. 212; p. 1495.
- Cutlip, Charles T., Detroit, Mich. Spring structure. No. 1,159,477; Nov. 9; Gaz. vol. 220; p. 405.
- Cutten, Elisha B., assignor of three-fourths to United States Horse Shoe Co., Erie, Pa. Laminated core for electrical apparatus. No. 1,136,942; Apr. 27; Gaz. vol. 213; p. 1132.
- Cutten, Elisha B., assignor of three-fourths to United States Horse Shoe Co., Erie, Pa. Dynamo-electric machine. No. 1,136,943; Apr. 27; Gaz. vol. 213; p. 1132.
- Cutter Electrical and Manufacturing Company, The. (See Scott, William M., assignor.)
- Cutter, Solomon M., Wethersfield, assignor to The Cape-well Horse Nail Company, Hartford, Conn. Cleaning rods. No. 1,142,499; June 8; Gaz. vol. 215; p. 535.
- Cutter, William O., Foxboro, Mass. Apparatus for propelling vessels. No. 1,164,787; Dec. 21; Gaz. vol. 221; p. 803.
- Cutting, Samuel B., assignor to The Salt's Textile Manufacturing Company, Bridgeport, Conn. Warp stop-motion for looms. No. 1,133,366; Mar. 30; Gaz. vol. 212; p. 1403.
- Cutting, Samuel B., assignor to The Salt's Textile Manufacturing Company, Bridgeport, Conn. Loom. No. 1,145,124; July 6; Gaz. vol. 216; p. 53.
- Cuyler, George W., Estherville, Iowa. Boring-bar. No. 1,126,715; Feb. 2; Gaz. vol. 211; p. 17.
- Cwiek, Anthony J., Providence, R. I. Device for sharpening chalk-disks. No. 1,126,409; Jan. 26; Gaz. vol. 210; p. 1248.
- Cybalski, Jan, Kent, Pa. Forced-draft mechanism for stoves. No. 1,125,819; Jan. 19; Gaz. vol. 210; p. 1004.
- Cycle Mfg. & Supply Company. (See Musselman, Alvin J., assignor.)
- Cyclone Fence Company. (See Slomer, Joseph, assignor.)
- Cykajla, Peter, assignor of three-fourths to C. Kovacs, Perth Amboy, N. J. Resilient wheel. No. 1,164,994; Dec. 21; Gaz. vol. 221; p. 876.
- Cypher, James L. (See Fox and Cypher.)
- Cyr, Paul, Boston, assignor of one-half to W. J. Downey, Hyde Park, Mass. Lock for automobiles. No. 1,162,224; Nov. 30; Gaz. vol. 220; p. 1519.
- Czajkowski, Alexander, Oakland, assignor to Byron Jackson Iron Works, West Berkeley, Cal. Self-oiling combination pulley-frame and pulley thrust-bearing. No. 1,161,198; Nov. 23; Gaz. vol. 220; p. 1114.
- Czarnik, Wojciech, Chicago, Ill. Inflating foldable boat. No. 1,130,480; Mar. 2; Gaz. vol. 212; p. 225.
- Czavra, Ignati, Brooklyn, N. Y. Safety stop apparatus for railways. No. 1,135,670; Apr. 13; Gaz. vol. 213; p. 607.
- Czełnski, Antoni C., Oswego, N. Y. Collapsible basket. No. 1,123,700; Jan. 5; Gaz. vol. 210; p. 171.
- D. Saunders' Sons. (See Offerman, William, assignor.)
- D. F. Briggs Company, The. (See Cunningham, Alexander Y., assignor.)
- D. H. Burrell & Company. (See Dalzell, Charles B., assignor.)
- D. H. Burrell & Company. (See Feldmeier and Dalzell, assignors.)
- D. H. Burrell & Company. (See Lawrence, William H., assignor.)
- D. & H. Manufacturing Jewelers Inc. (See Dygert, Charles H., assignor.)
- D. S. W. Manufacturing and Trading Corporation. (See Dianovszky, John, assignor.)
- D. T. Owen Company, The. (See Owen and Brown, assignors.)
- D'Angelo, Pasquale, Newark, N. J. Lock. No. 1,155,405; Oct. 5; Gaz. vol. 219; p. 28.
- D'Arcy, Frank P., Kalamazoo, Mich. Combined envelop and check. No. 1,126,411; Jan. 26; Gaz. vol. 210; p. 1248.
- D'Arcy, Frank P., Kalamazoo, Mich. Spring structure. No. 1,127,198; Feb. 2; Gaz. vol. 211; p. 188.
- D'Arcy, Frank P., Kalamazoo, Mich. Seat-cushion structure. No. 1,129,337; Feb. 23; Gaz. vol. 211; p. 1059.
- D'Arcy, Frank P., Kalamazoo, Mich. Seat-cushion structure. No. 1,139,644; May 18; Gaz. vol. 214; p. 749.
- D'Arcy, Frank P., Kalamazoo, Mich. Spring-cushion structure. No. 1,155,645; Oct. 5; Gaz. vol. 219; p. 111.
- D'Arcy, Frank P., Kalamazoo, Mich. Hose-clamp. No. 1,155,646; Oct. 5; Gaz. vol. 219; p. 111.
- D'Autremont, Louis P., Duluth, Minn. Game-board. No. 1,141,909; June 1; Gaz. vol. 215; p. 289.
- D'Harveng, Jules, Liege, Belgium. Two-cycle motor. No. 1,159,572; Nov. 9; Gaz. vol. 220; p. 437.
- D'Homergue, John B. (See De Long and D'Homergue.)
- D'Olier, Francis W., Moorestown, N. J. Automatic stop for phonographs. No. 1,135,166; Apr. 13; Gaz. vol. 213; p. 430.
- D'Olier, William L., Philadelphia, Pa. Centrifugal machine. No. 1,132,915; Mar. 23; Gaz. vol. 212; p. 1205.
- D'Olier, William L., and H. H. Stephens, Philadelphia, Pa. Centrifugal apparatus. No. 1,124,715; Jan. 12; Gaz. vol. 210; p. 575.
- D'Olier, William L., and H. H. Stephens, Philadelphia, Pa. Centrifugal apparatus. No. 1,129,178; Feb. 23; Gaz. vol. 211; p. 1004.
- D'Olier, William L., and H. H. Stephens, Philadelphia, Pa. Centrifugal apparatus. No. 1,163,743; Dec. 14; Gaz. vol. 221; p. 399.
- Da Costa, Robert C., Trenton, N. J., assignor to John A. Roebbing's Sons Company, Solenoid. No. 1,142,021; June 8; Gaz. vol. 215; p. 368.
- Dabbs, Charley H. (See Dean, August, assignor.)
- Dabney, Thomas G., Clarksdale, Miss. Electric-fan-guard attachment. No. 1,158,184; Oct. 26; Gaz. vol. 219; p. 1118.

- Daft, Leo, Rutherford, N. J., assignor to Electro-Chemical Rubber & Manufacturing Company. Rubber-covered metal article and making the same. No. 1,124,302; Jan. 12; Gaz. vol. 210; p. 426.
- Dagger, Jacob, *et al.* (See Shilling, Edward C., assignor.)
- Daggett, William R., Seattle, Wash., assignor of one-third to S. N. Lasher, South Waverly, Pa. Trolley-switch. No. 1,127,864; Feb. 9; Gaz. vol. 211; p. 462.
- Dague, Morton H., Newport, Ark. Paper box. No. 1,157,298; Oct. 19; Gaz. vol. 219; p. 745.
- Dahill, Edward F., New Bedford, and G. R. Bartlett, Plymouth, Mass. Aerial apparatus. No. 1,127,411; Feb. 9; Gaz. vol. 211; p. 301.
- Dahl, Alvin, Nicholson, Pa., assignor to F. M. Talbot, Glen Ridge, N. J. Device for operating dumping-buckets. No. 1,145,564; July 6; Gaz. vol. 216; p. 205.
- Dahl, Benjamin, Minneapolis, Minn. Wheel-rim. No. 1,134,592; Apr. 6; Gaz. vol. 213; p. 186.
- Dahl, Elmer C. (See Woods, Nelson T., assignor.)
- Dahl, Harry J., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Producing seams. No. 1,129,853; Mar. 2; Gaz. vol. 212; p. 7.
- Dahl, Harry J., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Machine for producing seams. No. 1,129,854; Mar. 2; Gaz. vol. 212; p. 8.
- Dahl, John L., assignor to The Gregg Company Limited, Hackensack, N. J. Stake-pocket. No. 1,160,143; Nov. 16; Gaz. vol. 220; p. 695.
- Dahl Manufacturing Company. (See Gasstrom, Herman, assignor.)
- Dahl, Nikolai, Trondhjem, Norway. Refrigerating fish, &c. No. 1,123,701; Jan. 5; Gaz. vol. 210; p. 171.
- Dahl, Ole M. (See Uchtmann, Weet R., assignor.)
- Dahl, Ole M., Boston, Mass. Hat-securing device. No. 1,137,843; May 4; Gaz. vol. 214; p. 42.
- Dahlberg, John, San Francisco, Cal. Flagpole. No. 1,148,362; July 27; Gaz. vol. 216; p. 1257.
- Dahlmeyer, Karl O., Berlin, Germany. Jar-molding machine. No. 1,138,457; May 4; Gaz. vol. 214; p. 259.
- Dahlquist, Anders G. (See Hesselius, Peter, assignor.)
- Dahlstrom, John. (See Turner and Dahlstrom.)
- Dahlstrom Metallic Door Company. (See Larson and Olofson, assignors.)
- Dahly, Harold T., assignor to S. Dahly, Minneapolis, Minn. Washboard. No. 1,134,517; Apr. 6; Gaz. vol. 213; p. 158.
- Dahly, Severina. (See Dahly, Harold T., assignor.)
- Dalber, Ernst, and P. A. Ritter, Kiel, Germany. Working cylinder for internal-combustion engines. No. 1,159,832; Nov. 9; Gaz. vol. 220; p. 533.
- Daidy, George A. (See Taylor and Daidy.)
- Dail, James R., Goldsboro, N. C. Truss. No. 1,147,379; July 20; Gaz. vol. 216; p. 882.
- Dalley, Carolus E., Brooklyn, N. Y. Cordage-rope machine. No. 1,141,040; May 25; Gaz. vol. 214; p. 1274.
- Dalley, John, and D. Bertolino, Hepzibah, Va. Plumb-bob. No. 1,124,595; Jan. 12; Gaz. vol. 210; p. 532.
- Dalley, Russell L., Kansas City, Mo. Steam-generator. No. 1,161,199; Nov. 23; Gaz. vol. 220; p. 1114.
- Dalley, William H., and H. W. Goode, assignors to The Van Wert Beet Harvester Company, Van Wert, Ohio. Beet-harvesting machine. No. 1,126,716; Feb. 2; Gaz. vol. 211; p. 17.
- Daily, Anthony W. (See Sarsfield and Daily.)
- Daily, Dora S., assignor of one-half to T. J. Purcell, San Francisco, Cal. Face-steamer. No. 1,132,243; Mar. 16; Gaz. vol. 212; p. 912.
- Daily, Irvin J., assignor to Henricks Novelty Company, Indianapolis, Ind. Ignition apparatus for internal-combustion engines. No. 1,125,971; Jan. 26; Gaz. vol. 210; p. 1090.
- Daimler-Motoren-Gesellschaft. (See Daimler, Paul, assignor.)
- Daimler-Motoren-Gesellschaft. (See Daimler and Friz, assignors.)
- Daimler-Motoren-Gesellschaft. (See Daimler and Slaby, assignors.)
- Daimler-Motoren-Gesellschaft. (See Moewes, Ernst, assignor.)
- Daimler-Motoren-Gesellschaft. (See Schwarz, Fritz, assignor.)
- Daimler-Motoren-Gesellschaft. (See Schwerdtfeger, Walter, assignor.)
- Daimler-Motoren-Gesellschaft. (See Slaby, Rudolf, assignor.)
- Daimler-Motoren-Gesellschaft. (See Wihs and Petri, assignors.)
- Daimler, Paul, Cannstatt, assignor to Daimler-Motoren-Gesellschaft, Untertürkheim, Germany. Tractive-force-measuring appliance. No. 1,136,511; Apr. 20; Gaz. vol. 213; p. 944.
- Daimler, Paul, Cannstatt, and M. Friz, assignors to Daimler-Motoren-Gesellschaft, Untertürkheim, Germany. Starting device for internal-combustion engines. No. 1,136,512; Apr. 20; Gaz. vol. 213; p. 944.
- Daimler, Paul, Cannstatt, and R. Slaby, Stuttgart, assignors to Daimler-Motoren-Gesellschaft, Untertürkheim, Germany. Throttle-valve for carbureters. No. 1,162,576; Nov. 30; Gaz. vol. 220; p. 1639.
- Dain, Joseph. (See Adams and Dain.)
- Dain, Joseph, Ottumwa, Iowa, assignor to Deere & Company, Moline, Ill. Manure-spreader. No. 1,139,498; May 18; Gaz. vol. 214; p. 698.
- Dain, Joseph, Ottumwa, Iowa, assignor, by mesne assignments, to Deere & Company, Moline, Ill. Mower. No. 1,147,708; July 27; Gaz. vol. 216; p. 1023.
- Dain, Joseph, assignor, by mesne assignments, to Deere & Company, Moline, Ill. Mower. No. 1,147,709; July 27; Gaz. vol. 216; p. 1024.
- Dain, Joseph, assignor to Deere & Company, Moline, Ill. Draft device. No. 1,152,936; Sept. 7; Gaz. vol. 218; p. 205.
- Dain, Joseph, assignor to Deere & Company, Moline, Ill. Tongue-truck for harvesters. No. 1,156,216; Oct. 12; Gaz. vol. 219; p. 334.
- Dain, Joseph, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-rake. No. 1,141,695; June 1; Gaz. vol. 215; p. 216.
- Dain, Joseph, Moline, Ill., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-press. No. 1,147,710; July 27; Gaz. vol. 216; p. 1024.
- Dain, Joseph, Moline, Ill., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-press. No. 1,153,199; Sept. 14; Gaz. vol. 218; p. 332.
- Dain, Joseph, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-loader. No. 1,157,680; Oct. 26; Gaz. vol. 219; p. 941.
- Dain Manufacturing Company of Iowa. (See Dain, Joseph, assignor.)
- Dain Manufacturing Company of Iowa. (See Melvin, Charles H., assignor.)
- Dairy Cream Separator Co., The. (See Oedekerker, Martinus H. G., assignor.)
- Dairymens Supply Company. (See Bardsley, Joseph, assignor.)
- Daisy Manufacturing Company. (See Burrows, William J., assignor.)
- Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)
- Dake, Charles W. (See Kilker and Dake.)
- Dake, Charles W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Making buckets for turbines. No. 1,127,740; Feb. 9; Gaz. vol. 211; p. 417.
- Dake, Charles W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Unbalanced valve for turbines. No. 1,134,317; Apr. 6; Gaz. vol. 213; p. 86.
- Dake, Charles W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Turbine. No. 1,137,704; Apr. 27; Gaz. vol. 213; p. 1399.
- Dake, Charles W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Bracket for locomotive-headlights. No. 1,138,848; May 11; Gaz. vol. 214; p. 435.
- Dake, Charles W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Motor-generator set. No. 1,145,565; July 6; Gaz. vol. 216; p. 206.
- Dake, Charles W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Balanced valve for turbines. No. 1,145,566; July 6; Gaz. vol. 216; p. 206.
- Dake, Charles W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Headlight. No. 1,152,007; Aug. 31; Gaz. vol. 217; p. 1503.
- Dake Engine Co. (See Zellar, Frederick J., assignor.)
- Dake, Wilford W., Grand Haven, Mich., assignor to Pyle National Electric Headlight Company, Chicago, Ill. Elastic-fluid turbine. No. 1,139,465; May 11; Gaz. vol. 214; p. 651.
- Dakin, Elias J., Washington, D. C. Hanger. No. 1,139,464; May 11; Gaz. vol. 214; p. 651.
- Dakin, George E. (See Doddridge, Loyal M., assignor.)
- Dakin, Isaac C., West Newton, Pa. Steam-boiler furnace. No. 1,147,216; July 20; Gaz. vol. 216; p. 825.
- Dal Pino, Caesar. (See Healy, Michael J., assignor.)
- Dalbey, William C., Du Quoin, Ill., assignor to The Cleveland Dental Manufacturing Company, Cleveland, Ohio. Root-beveling device. No. 1,157,681; Oct. 26; Gaz. vol. 219; p. 942.
- Dale, Charles E., Cleveland, Okla. Pump appliance. No. 1,133,270; Mar. 30; Gaz. vol. 212; p. 1369.
- Dale, Frank M., assignor to Motoring Clock Manufacturing Company, Sullivan, Ind. Automobile timepiece attachment. No. 1,153,609; Sept. 14; Gaz. vol. 218; p. 450.
- Dale, Fred H., assignor of one-half to L. Eakin, Manhattan, Kans. Hot-water heater for incubators. No. 1,160,497; Nov. 16; Gaz. vol. 220; p. 819.
- Dale, George E., Trenton, assignor, by mesne assignments to Philadelphia Steel & Wire Co., Camden, N. J. Centering-form for reinforced concrete construction. No. 1,131,479; Mar. 9; Gaz. vol. 212; p. 602.
- Dale, George E., Trenton, assignor, by mesne assignments to Philadelphia Steel & Wire Co., Camden, N. J. Form for reinforced-concrete wall and column construction. No. 1,159,184; Nov. 2; Gaz. vol. 220; p. 269.
- Dale, George E., Trenton, N. J., and E. A. Tucker, Boston, Mass., assignors to Philadelphia Steel & Wire Co., Philadelphia, Pa. Deformed bar for reinforced concrete construction. No. 1,164,477; Dec. 14; Gaz. vol. 221; p. 655.
- Dale, John H., New York, N. Y. Electric-lighting fixture. No. 1,160,859; Nov. 16; Gaz. vol. 220; p. 949.

Alphabetical list of patentees—Continued.

- Dale, John H., New York, N. Y. Electric-lighting fixture. No. 1,160,860; Nov. 16; Gaz. vol. 220; p. 949.
- Dale, John W., Portland, Ore. Drying apparatus. No. 1,144,817; June 29; Gaz. vol. 215; p. 1431.
- Dale, William E., Wise, Va. Starting-crank for engines. No. 1,145,294; July 6; Gaz. vol. 216; p. 111.
- Dalén, Gustaf, Stockholm, Sweden. Safety device for incandescent-gas-light burners. No. 1,132,305; Mar. 16; Gaz. vol. 212; p. 935.
- Dalén, Gustaf, Stockholm, Sweden. Storing mass for acetylene gas. No. 1,140,124; May 18; Gaz. vol. 214; p. 921.
- Dalén, Gustaf, assignor to Svenska Aktiebolaget Gas-accumulator, Stockholm, Sweden. Apparatus for mixing gases. No. 1,153,766; Sept. 14; Gaz. vol. 218; p. 533.
- Dalén, Gustaf, assignor to Svenska Aktiebolaget Gas-accumulator, Stockholm, Sweden. Railway signaling system. No. 1,153,840; Sept. 14; Gaz. vol. 218; p. 561.
- Daley, Denis W., Parkersburg, W. Va. Bracket to support moldboards for concrete structures. No. 1,149,635; Aug. 10; Gaz. vol. 217; p. 515.
- Daley, Denis W., Parkersburg, W. Va. Support and stay for moldboards used for one side of concrete walls. No. 1,149,636; Aug. 10; Gaz. vol. 217; p. 515.
- Daley, Denis W., Parkersburg, W. Va. Support for moldboards. No. 1,149,637; Aug. 10; Gaz. vol. 217; p. 516.
- Dallernup, Charles. (See Elsmann and Dallernup.)
- Dallmeyer, Thomas D., Oakmont, Pa. Nut-lock. No. 1,130,712; Mar. 9; Gaz. vol. 212; p. 338.
- Dalpé, William H., Montreal, Quebec, Canada. Orthopedic stock for the treatment of club-feet in children. No. 1,124,596; Jan. 12; Gaz. vol. 210; p. 532.
- Dalton Adding Machine Company, The. (See Dorman, Samuel G., assignor.)
- Dalton Adding Machine Company, The. (See Dysart, Birney, assignor.)
- Dalton Adding Machine Company. (See Landsiedel, Harry, assignor.)
- Dalton Adding Machine Company, The. (See Magnus, John, assignor.)
- Dalton Adding Machine Company, The. (See Raber, Joseph, assignor.)
- Dalton Adding Machine Company, The. (See Webster, Restor R., assignor.)
- Dalton, Golburn O., and C. A. Hill, Fulton, Ark. Track obstruction for train-stopping mechanism. No. 1,128,763; Feb. 16; Gaz. vol. 211; p. 821.
- Dalton-Ingersoll Manufacturing Company. (See Kenney, Thomas H., assignor.)
- Dalton, James K., Waverly, Ohio. Safety-envelop. No. 1,148,220; July 27; Gaz. vol. 216; p. 1205.
- Dalton, James K., Waverly, Ohio. Coupling. No. 1,160,050; Nov. 9; Gaz. vol. 220; p. 608.
- Dalton, John T., Baltimore, Md., assignor to R. H. Wright, Durham, N. C. Knot-tier. No. 1,125,666; Jan. 19; Gaz. vol. 210; p. 950.
- Dalton, John W., *et al.* (See McArdle, John T., assignor.)
- Dalton, William H., Salem, Mass. Electric flat-iron. No. 1,124,303; Jan. 12; Gaz. vol. 210; p. 426.
- Dalton, William M., assignor of one-half to J. A. Key, America, Ala. Wire-stretcher. No. 1,133,367; Mar. 30; Gaz. vol. 212; p. 1404.
- Daly, Charles P., New York, N. Y. Filler for egg-cases. No. 1,134,823; Apr. 6; Gaz. vol. 213; p. 268.
- Daly, John J., assignor to The Banker Manufacturing Company, New Brunswick, N. J. Door-check. No. 1,131,121; Mar. 9; Gaz. vol. 212; p. 478.
- Daly, John J., assignor to The Banker Manufacturing Company, New Brunswick, N. J. Door-check. No. 1,131,122; Mar. 9; Gaz. vol. 212; p. 478.
- Daly, Joseph A., Chicago, Ill. Foldable support for drawing-boards. No. 1,126,410; Jan. 26; Gaz. vol. 210; p. 1248.
- Daly, Walter J., and B. Wimmer, Rahway, N. J. Clothes-line support. No. 1,130,713; Mar. 9; Gaz. vol. 212; p. 339.
- Dalzell, Charles B. (See Feldmeier and Dalzell.)
- Dalzell, Charles R., assignor to D. H. Burrell & Company, Little Falls, N. Y. Pump. No. 1,125,483; Jan. 19; Gaz. vol. 210; p. 883.
- Damascus Brake Beam Co., The. (See Schroeder, Frederick J., assignor.)
- Damascus Brake Beam Co., The. (See Tomlin, George V., assignor.)
- Damer, George, U. S. Navy. Projectile. No. 1,144,818; June 29; Gaz. vol. 215; p. 1432.
- Damon, Clare B., *et al.*, executors. (See Damon, Russell H.)
- Damon, J. Linfield, Jr. (See MacLeod, Alexander, assignor.)
- Damon, Murray C., *et al.*, executors. (See Damon, Russell H.)
- Damon, Russell H., deceased; C. B. and M. C. Damon, executors, assignors to The Hairlight Company, Leominster, Mass. Barrette or hair-retainer. No. 1,152,883; Sept. 7; Gaz. vol. 218; p. 185.
- Damon, Russell H., deceased; C. B. and M. C. Damon, executors, assignors to The Hairlight Company, Leominster, Mass. Hair-roll. No. 1,152,884; Sept. 7; Gaz. vol. 218; p. 185.
- Damsma, Harry P., Kalamazoo, Mich. Fish bait or lure. No. 1,144,756; June 29; Gaz. vol. 215; p. 1409.
- Danbrook, James P., Salvador, Saskatchewan, Canada. Means for preserving boiler-fues. No. 1,139,350; May 11; Gaz. vol. 214; p. 608.
- Danckwardt, Paul, near Dardanelle, Ark. Producing oxygen. No. 1,124,304; Jan. 12; Gaz. vol. 210; p. 427.
- Danckwardt, Paul, near Dardanelle, Ark. Production of gasolene and naphtha from crude oils, petroleum products, tar-oil, or similar products. No. 1,141,529; June 1; Gaz. vol. 215; p. 158.
- Dane Manufacturing Company. (See De Lukacsevics, Charles, assignor.)
- Dane, William H. (See De Lukacsevics, Charles, assignor.)
- Danes, Charles, assignor of one-half to J. O. Murrey, Charlton, Mass. Saw-set. No. 1,127,865; Feb. 9; Gaz. vol. 211; p. 463.
- Danforth, Charles W., Youngstown, Ohio. W. P. Samuels, New Castle, Pa., and W. T. Martersteck, Youngstown, Ohio. Treating complex carnotite ores. No. 1,126,182; Jan. 26; Gaz. vol. 210; p. 1169.
- Danforth, George L., Jr., South Chicago, Ill. Regenerator. No. 1,140,125; May 18; Gaz. vol. 214; p. 921.
- Daniel, Anna J., St. Louis, Mo. Practice-keyboard. No. 1,125,268; Jan. 19; Gaz. vol. 210; p. 808.
- Daniel, D. Jacob, Little Rock, Ark. Telephone attachment. No. 1,147,312; July 20; Gaz. vol. 216; p. 856.
- Daniel Green Felt Shoe Company. (See Franz, Paul H., assignor.)
- Daniel, Henry J., Halifax county, Va. Horse-collar. No. 1,125,820; Jan. 19; Gaz. vol. 210; p. 1004.
- Daniel, John T., Columbia, Tenn. Lever-actuated power-transmission gearing. No. 1,156,982; Oct. 19; Gaz. vol. 219; p. 633.
- Daniel, Paul, Jamaica, N. Y. Centrifugal pump. No. 1,156,063; Oct. 12; Gaz. vol. 219; p. 283.
- Daniell, Pearl, Lawton, Okla. Brooder. No. 1,154,488; Sept. 21; Gaz. vol. 218; p. 817.
- Daniels, Frank C. (See Howarth, John M., assignor.)
- Daniels, Fred C. T. (See Field and Daniels.)
- Daniels, George E. (See Marshall and Daniels.)
- Daniels, John F., assignor of one-half to R. M. Whitman, Providence, R. I. Clasp. No. 1,147,147; July 20; Gaz. vol. 216; p. 800.
- Daniels, John J., Albia, Iowa. Fire-escape. No. 1,153,200; Sept. 14; Gaz. vol. 218; p. 332.
- Daniels Safety Device Company. (See Daniels, Thomas M., assignor.)
- Daniels Safety Device Company. (See Daniels and Holschemacher, assignors.)
- Daniels, Theodor, Brooklyn, N. Y. Bookbinder. No. 1,154,489; Sept. 21; Gaz. vol. 218; p. 817.
- Daniels, Thomas M., Chicago, Ill. Self-locking nut. No. 1,130,481; Mar. 2; Gaz. vol. 212; p. 225.
- Daniels, Thomas M., Chicago, Ill. Safety controlling apparatus for aeroplanes. No. 1,153,035; Sept. 7; Gaz. vol. 218; p. 239.
- Daniels, Thomas M., Chicago, Ill. Means for joining railway-rails. No. 1,153,036; Sept. 7; Gaz. vol. 218; p. 239.
- Daniels, Thomas M., assignor of one-half to F. G. Logan, Chicago, Ill. Railway-tie. No. 1,128,950; Feb. 16; Gaz. vol. 211; p. 890.
- Daniels, Thomas M., assignor to Daniels Safety Device Company, Chicago, Ill. Self-locking nut. No. 1,164,478; Dec. 14; Gaz. vol. 221; p. 655.
- Daniels, Thomas M., and J. C. Holschemacher, assignors, by mesne assignments, to Daniels Safety Device Company, Chicago, Ill. Nut-tapping machine. No. 1,141,779; June 1; Gaz. vol. 215; p. 243.
- Daniels, Walter H., Savannah, Ga. Valve. No. 1,134,109; Apr. 6; Gaz. vol. 213; p. 9.
- Daniels, Wilford R., Union Course, assignor of one-half to J. E. Kegreisz, New York, N. Y. Spot-remover. No. 1,134,037; Mar. 30; Gaz. vol. 212; p. 1639.
- Daniels, William A., Dermott, Ark. Spring-roller shade for vehicles. No. 1,135,161; Apr. 13; Gaz. vol. 213; p. 428.
- Daniels, William P., *et al.* (See Wolfe, Ira B., assignor.)
- Danielson, Cecil E., Langford, S. D. Trap. No. 1,158,185; Oct. 26; Gaz. vol. 219; p. 1118.
- Danielson, Charles, Minneapolis, Minn. Clothes-rack. No. 1,126,717; Feb. 2; Gaz. vol. 211; p. 18.
- Danielson, Gustave F., Youngstown, Ohio. Seat. No. 1,145,567; July 6; Gaz. vol. 216; p. 206.
- Danielson, Gustave F., Youngstown, Ohio. Wheel. No. 1,161,291; Nov. 23; Gaz. vol. 220; p. 1148.
- Danielson, Oscar A., New York, N. Y. Speedometer for aeroplanes and other aerial devices. No. 1,123,253; Jan. 5; Gaz. vol. 210; p. 17.
- Danley, Byron, St. Johns, Mich. Poultry-coop. No. 1,132,764; Mar. 23; Gaz. vol. 212; p. 1150.
- Danley, William L., *et al.* (See Killman, Thomas A., assignor.)
- Dann, Ernest G., Chicago, Ill. Lubricating-strip for leaf-springs. No. 1,143,812; June 22; Gaz. vol. 215; p. 1053.
- Dann, Walter M., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, Transformer. No. 1,130,260; Mar. 2; Gaz. vol. 212; p. 145.

- Dannenberg, Charles B., Wilmington, Del. Protractor. No. 1,133,540; Mar. 30; Gaz. vol. 212; p. 1466.
- Dannenberg, George H. (See Gross and Dannenberg.)
- Dannenberg, William, Elmore, Minn. Spike-puller. No. 1,150,833; Aug. 17; Gaz. vol. 217; p. 998.
- Danner, Albert P., Bridgeport, Conn. Christmas-tree stand. No. 1,127,866; Feb. 9; Gaz. vol. 211; p. 463.
- Danner, John A. F., Elizabeth, N. J. Toilet appliance. No. 1,139,351; May 11; Gaz. vol. 214; p. 609.
- Dano, Harry S. (See Smith and Dano.)
- Danquard, Thomas, New York, N. Y., assignor to Auto Pneumatic Action Company. Musical instrument for using two note-sheets. No. 1,159,750; Nov. 9; Gaz. vol. 220; p. 502.
- Dansby, Thomas M., Pine Bluff, Ark. Slicing-machine. No. 1,153,484; Sept. 14; Gaz. vol. 218; p. 436.
- Dansby, Thomas M., Pine Bluff, Ark. Slicing-machine. No. 1,153,485; Sept. 14; Gaz. vol. 218; p. 436.
- Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Fluid-pressure device. No. 1,158,029; Oct. 26; Gaz. vol. 219; p. 1063.
- Dantzer, James. (See Dantzer, Robert and J.)
- Dantzer, Robert and J., Lille, France. Weaving-loom. No. 1,127,601; Feb. 9; Gaz. vol. 211; p. 368.
- Dany, Geza, New Brunswick, N. J. Horseshoe. No. 1,135,265; Apr. 13; Gaz. vol. 213; p. 462.
- Dányi, John, Brooklyn, N. Y., Canopy for life-boats. No. 1,125,484; Jan. 19; Gaz. vol. 210; p. 883.
- Danz, Jacob, 2d, Los Angeles, Cal. Combined game and shell bag. No. 1,141,941; June 8; Gaz. vol. 215; p. 337.
- Danzelo Sales Company, The. (See Eldot and Danzig, assignors.)
- Danzenbaker, Francis, Norfolk, Va. Beehive. No. 1,154,176; Sept. 21; Gaz. vol. 218; p. 710.
- Danzig, John M. (See Eldot and Danzig.)
- Danziger, Charles S. (See Neuman and Danziger.)
- Daprato Statuary Company. (See Gaul, Godfried J., assignor.)
- Daprato Statuary Company. (See Rigall, John E., assignor.)
- Darby, Arthur W., Holyoke, Mass. Device for removing and replacing electric lamps. No. 1,166,189; Dec. 28; Gaz. vol. 221; p. 1334.
- Darby, Levi L., Newark, N. J. Lifting-jack. No. 1,155,049; Sept. 28; Gaz. vol. 218; p. 1036.
- Darby, Levi L., Newark, and C. N. Walsh, East Orange, N. J., assignors to Darby Machine Company. Calculating-machine. No. 1,155,048; Sept. 28; Gaz. vol. 218; p. 1036.
- Darby Machine Company. (See Darby and Walsh, assignors.)
- Darby, Norman C., East Orange, N. J., assignor of one-half to R. Miehling, New York, N. Y. Current-corrector. No. 1,143,041; June 15; Gaz. vol. 215; p. 761.
- Darby, Robert F., assignor to American Steel Foundries, Chicago, Ill. Cast-steel carry-iron. No. 1,143,689; June 22; Gaz. vol. 215; p. 1012.
- Darby, William F., Jacksonville, Mo. Cap-locking device for grease-cups. No. 1,163,810; Dec. 14; Gaz. vol. 221; p. 423.
- Dárdano, Carlos F., San Salvador, San Salvador. Shower bath apparatus. No. 1,145,568; July 6; Gaz. vol. 216; p. 207.
- Darke, William W., Everett, Mass. Stop mechanism for locomotives. No. 1,135,771; Apr. 13; Gaz. vol. 213; p. 640.
- Darker, Alfred H. Blackheath, assignor to J. Stone & Company Limited, Deptford, England. Electrical installation for lighting, heating, and ventilating railway-carriages and similar purposes. No. 1,131,914; Mar. 16; Gaz. vol. 212; p. 791.
- Darley, John W., Jr., Baltimore, Md. Button-sewing machine. No. 1,124,597; Jan. 12; Gaz. vol. 210; p. 533.
- Darley, John W., Jr., Baltimore, Md. Reduced-locking-stitch button-sewing machine. No. 1,125,821; Jan. 19; Gaz. vol. 210; p. 1005.
- Darley, John W., Jr., Baltimore, Md. Thread-cutting mechanism for button-sewing machines. No. 1,125,972; Jan. 26; Gaz. vol. 210; p. 1090.
- Darley, John W., Jr., Baltimore, Md. Thread-stand. No. 1,126,158; Jan. 26; Gaz. vol. 210; p. 1158.
- Darley, John W., Jr., Baltimore, Md. Loop-former for sewing-machines. No. 1,134,946; Apr. 6; Gaz. vol. 213; p. 307.
- Darley, John W., Jr., Baltimore, Md. Thread-guard for sewing-machines. No. 1,139,261; May 11; Gaz. vol. 214; p. 579.
- Darley, John W., Jr., Baltimore, Md. Thread severing and holding mechanism for sewing-machines. No. 1,141,041; May 25; Gaz. vol. 214; p. 1274.
- Darley, John W., Jr., Baltimore, Md. Thread-controlling mechanism for button-sewing machines. No. 1,143,513; June 15; Gaz. vol. 215; p. 926.
- Darley, John W., Jr., Baltimore, Md. Musical instrument. No. 1,155,299; Sept. 28; Gaz. vol. 218; p. 1120.
- Darley, John W., Jr., Baltimore, Md. Expression device for electric organs. No. 1,155,300; Sept. 28; Gaz. vol. 218; p. 1120.
- Darley, John W., Jr., Baltimore, Md. Key-controlled contact-maker for use with musical instruments. No. 1,155,301; Sept. 28; Gaz. vol. 218; p. 1121.
- Darley, John W., Jr., Baltimore, Md. Circuit-closer. No. 1,155,302; Sept. 28; Gaz. vol. 218; p. 1121.
- Darling, Arthur R., assignor to Edwards Instrument Company, Indianapolis, Ind. Ozonator. No. 1,125,900; Jan. 19; Gaz. vol. 210; p. 1031.
- Darling, Edmund R., Woonsocket, R. I. Work-holder. No. 1,155,706; Oct. 5; Gaz. vol. 219; p. 133.
- Darling, Richard S., assignor to Paramount Glass Percolator Mfg. Co., New York, N. Y. Straining device. No. 1,153,768; Sept. 14; Gaz. vol. 218; p. 534.
- Darling, Roy A., Pellston, Mich. Tooth-brush. No. 1,164,597; Dec. 14; Gaz. vol. 221; p. 695.
- Darling, Samuel M., Chicago, Ill. Making gas. No. 1,157,089; Oct. 19; Gaz. vol. 219; p. 671.
- Darling, William V., Riverside, Cal. Roadway-scarifier. No. 1,155,218; Sept. 28; Gaz. vol. 218; p. 1006.
- Darling, Willis A., New York, N. Y., assignor to Continental Rubber Works, Erie, Pa. Handle-covering. No. 1,133,622; Mar. 30; Gaz. vol. 212; p. 1496.
- Darlington, Philip J., Hartford, Conn. Rotary motor. No. 1,142,500; June 8; Gaz. vol. 215; p. 536.
- Darlington, Philip J., Hartford, Conn. Fluid-operable fuel-cleaner. No. 1,150,419; Aug. 17; Gaz. vol. 217; p. 854.
- Darlington, Philip J., Hartford, Conn. Rotary motor. No. 1,161,928; Nov. 30; Gaz. vol. 220; p. 1417.
- Darlington, Philip J., Hartford, Conn. Rotary motor. No. 1,163,642; Dec. 14; Gaz. vol. 221; p. 361.
- Darlington, Philip J., Hartford, Conn. Rotary motor. No. 1,165,852; Dec. 28; Gaz. vol. 221; p. 1213.
- Darmois, Emile E., and M. A. E. Leblanc, Paris, France. Vapor electric apparatus. No. 1,161,801; Nov. 23; Gaz. vol. 220; p. 1325.
- Darnell, James J. (See Sikes, Jonas C., assignor.)
- Darnill, Walter W., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Gripper mechanism for pulling-over machines. No. 1,163,588; Dec. 7; Gaz. vol. 221; p. 298.
- Darois, Noah, New York, N. Y. Portable snow-scraper for trolley-cars. No. 1,142,677; June 8; Gaz. vol. 215; p. 594.
- Darragh, Edwin E. (See Hassett and Darragh.)
- Darrab, Harry L., Chatham, N. J., assignor to Western Electric Company, New York, N. Y. Signaling system. No. 1,163,896; Dec. 14; Gaz. vol. 221; p. 452.
- Darrab, Harry M., Philadelphia, Pa. Vehicle-tire. No. 1,160,144; Nov. 16; Gaz. vol. 220; p. 696.
- Darroch, Angus, New York, N. Y. Grating. No. 1,150,746; Aug. 17; Gaz. vol. 217; p. 967.
- Darrow, Burgess, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Vehicle wheel-rim. No. 1,127,412; Feb. 9; Gaz. vol. 211; p. 301.
- Darrow, George, Winfred township, Lake county, S. D. Bundle-loader. No. 1,145,752; July 6; Gaz. vol. 216; p. 272.
- Darrow, George E., Eugene, Oreg. Removing stains from fabrics. No. 1,164,705; Dec. 21; Gaz. vol. 221; p. 774.
- Darrow, Will H. (See Stokes, Robert L., assignor.)
- Darrow, Wilton E., Sutter Creek, Cal. Adjustable swinging spray for mineral washing. No. 1,123,254; Jan. 5; Gaz. vol. 210; p. 18.
- Darrow, Wilton E., Sutter Creek, Cal. Screen for separating sand from slime. No. 1,133,461; Mar. 30; Gaz. vol. 212; p. 1437.
- Darrow, Wilton E., Sutter Creek, Cal. Slime-thickener for dewatering mine-tailings. No. 1,156,276; Oct. 12; Gaz. vol. 219; p. 353.
- Darton, Willard B., Portland, Me., assignor to The Marlin Firearms Company, New Haven, Conn. Target-thrower. No. 1,164,609; Dec. 14; Gaz. vol. 221; p. 699.
- Dasher, Isidor R., assignor to L. T. Bernstein, New York, N. Y. Sewing-machine. No. 1,137,122; Apr. 27; Gaz. vol. 213; p. 1198.
- Dashwood, William A., St. John, New Brunswick, Canada, assignor to Sheffield Car Company, Three Rivers, Mich. Fly-wheel for explosion-engines. No. 1,134,110; Apr. 6; Gaz. vol. 213; p. 9.
- Dassori, Frederick, Brooklyn, N. Y. Shoe-fastening. No. 1,124,868; Jan. 12; Gaz. vol. 210; p. 631.
- Date, William E., Westfield, N. J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Overload protective device. No. 1,136,657; Apr. 20; Gaz. vol. 213; p. 995.
- Date, William E., Westfield, assignor by mesne assignments, to Automatic Refrigerating Company, Jersey City, N. J. Electric switch. No. 1,145,569; July 6; Gaz. vol. 216; p. 207.
- Dath, Charles E., assignor to W. H. Miner, Chicago, Ill. Railway draft-sills. No. 1,126,718; Feb. 2; Gaz. vol. 211; p. 18.
- Dath, Charles E., assignor to W. H. Miner, Chicago, Ill. Underframe for railway-cars. No. 1,128,298; Feb. 16; Gaz. vol. 211; p. 664.
- Datus, John. (See Baker and Datus.)
- Daub, Wade G., Westerville, Ohio. Grain-harvesting machine. No. 1,160,696; Nov. 16; Gaz. vol. 220; p. 893.
- Dauber, Gisbert, Alt-Heikendorf, assignor to Fried. Krupp Aktiengesellschaft Germaniaewerft, Kiel-Gaarden, Germany. Valve arrangement for internal-combustion engines. No. 1,151,926; Aug. 31; Gaz. vol. 217; p. 1475.
- Daucher, Eugene, New York, N. Y. Automatic fire-extinguisher. No. 1,140,960; May 25; Gaz. vol. 214; p. 1247.

Alphabetical list of patentees—Continued.

- Daucher, Louis C., Suresnes, France. Ignition apparatus for internal-combustion engines. No. 1,160,388; Nov. 16; Gaz. vol. 220; p. 780.
- Daudelin, Jean B., Fall River, Mass. Shuttle. No. 1,149,249; Aug. 10; Gaz. vol. 217; p. 373.
- Dauernheim, Philip J. (See McLoon, Patrick, assignor.)
- Daugherty, Jeremiah H., and M. L. Hahn, Royalton, Pa. Holding or suspending device. No. 1,141,867; June 1; Gaz. vol. 215; p. 271.
- Daugherty, Otto M., assignor to Automatic Heat Regulator Co., St. Paul, Minn. Damper. No. 1,136,212; Apr. 20; Gaz. vol. 213; p. 836.
- Laughtry, Willie L., Orlando, Fla. Hand-car. No. 1,144,819; June 29; Gaz. vol. 215; p. 1432.
- Daum, Adam, Portage la Prairie, Manitoba, Canada. Packing. No. 1,133,541; Mar. 30; Gaz. vol. 212; p. 1466.
- Daum, Albert F., Pittsburgh, Pa. Fuse. No. 1,150,344; Aug. 17; Gaz. vol. 217; p. 829.
- Daum, Edward, Okaton, S. D. Lid for stoves. No. 1,164,995; Dec. 21; Gaz. vol. 221; p. 876.
- Dauwe, John M. (See Ghyselink and Dauwe.)
- Davenport, Frank B., Wilkes-Barre, Pa. Automatic starting and stopping device. No. 1,138,458; May 4; Gaz. vol. 214; p. 259.
- Davenport, Herman A., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-supporting jack. No. 1,162,683; Nov. 30; Gaz. vol. 220; p. 1673.
- Davenport, Herman A., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,163,589; Dec. 7; Gaz. vol. 221; p. 299.
- Davenport, John F., Stoughton, Wis. Lid for culinary vessels. No. 1,145,231; July 6; Gaz. vol. 216; p. 90.
- Davenport, Ransom W. (See Van Wie and Davenport.)
- Davenport, Ransom W., assignor to Detroit Stove Works, Detroit, Mich. Electrically-heated oven. No. 1,142,939; June 15; Gaz. vol. 215; p. 726.
- Davenport, Ransom W., assignor to Detroit Stove Works, Detroit, Mich. Electrical fitting. No. 1,145,057; July 6; Gaz. vol. 216; p. 30.
- Davenport, Ransom W., assignor to Detroit Stove Works, Detroit, Mich. Electrical heating unit. No. 1,147,789; July 27; Gaz. vol. 216; p. 1050.
- Davenport, Ransom W., assignor to Detroit Stove Works, Detroit, Mich. Electrical hot-plate. No. 1,158,451; Nov. 2; Gaz. vol. 220; p. 14.
- Davenport, Thomas L., Everett, Wash. Vacuum-jet pumping system. No. 1,152,302; Aug. 31; Gaz. vol. 217; p. 1605.
- Davenport, William A., assignor of one-half to C. S. Davies, Scranton, Pa. Positive automatic gas safety-valve and control. No. 1,142,676; June 8; Gaz. vol. 215; p. 594.
- Dayce, Albert J., Boston, Mass. Barrette. No. 1,148,292; July 27; Gaz. vol. 216; p. 1229.
- Dayce, John F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for setting gromets and the like. No. 1,139,645; May 18; Gaz. vol. 214; p. 750.
- David C. Cook Publishing Co. (See Thomas, John B., assignor.)
- David C. Cook Publishing Company. (See Smith, Chris N., assignor.)
- David, Daniel. (See Hancock and David.)
- David, Leon H., Fort Casey, Wash. Fuel-oil burner. No. 1,131,480; Mar. 9; Gaz. vol. 212; p. 603.
- David Lupton's Sons Company. (See Brogden and Watkins, assignors.)
- David, Peter. (See Shelton, John B., assignor.)
- David, Robert W., Philadelphia, Pa. Tire-armor. No. 1,148,504; Aug. 3; Gaz. vol. 217; p. 7.
- Davidson, Meyer J., Paris, France. Grinding in tube-mills. No. 1,164,264; Dec. 14; Gaz. vol. 221; p. 579.
- Davidson, Benjamin. (See Joachim and Davidson.)
- Davidson, Charles H. (See Lofland and Davidson.)
- Davidson, Charles L., New York, N. Y. Grate construction for furnaces. No. 1,129,172; Feb. 23; Gaz. vol. 211; p. 1002.
- Davidson, Christian, Chicago, Ill. Door-hanger. No. 1,136,658; Apr. 20; Gaz. vol. 213; p. 995.
- Davidson, Edward M., et al. (See MacGregor, Peter G., assignor.)
- Davidson, Frank B., Marseilles, Ill., assignor to Howe and Davidson Company, East Orange, N. J. Partition member for merchandise-receptacles. No. 1,131,773; Mar. 16; Gaz. vol. 212; p. 740.
- Davidson, Frank B., assignor to Howe and Davidson Company, Marseilles, Ill. Container or caddy. No. 1,134,998; Apr. 13; Gaz. vol. 213; p. 371.
- Davidson, Frank B., assignor to Howe and Davidson Company, Marseilles, Ill. Container. No. 1,150,852; Aug. 24; Gaz. vol. 217; p. 1063.
- Davidson, Frank B., Marseilles, Ill., assignor to Howe and Davidson Company, East Orange, N. J. Container or caddy. No. 1,151,570; Aug. 31; Gaz. vol. 217; p. 1352.
- Davidson, Frederick N. (See Cornell, Alfred, assignor.)
- Davidson, Frederick N. (See Cornell and Davidson.)
- Davidson, Fredrick W., Abilene, Kans. Sash-fastener. No. 1,130,151; Mar. 2; Gaz. vol. 212; p. 107.
- Davidson, Harry R., Lackawanna, N. Y. Trolley-wheel. No. 1,132,168; Mar. 16; Gaz. vol. 212; p. 884.
- Davidson, John E., Boston, assignor of one-third to A. N. Hood, Newton, and one-third to J. T. Nightingale, Boston, Mass. Making molded material. No. 1,125,973; Jan. 26; Gaz. vol. 210; p. 1091.
- Davidson, John M., assignor to Wm. B. Scaife & Sons Company, Pittsburgh, Pa. Separating detritus from liquids. No. 1,138,634; May 11; Gaz. vol. 214; p. 356.
- Davidson, John M., assignor to Wm. B. Scaife & Sons Company, Pittsburgh, Pa. Apparatus for sewage disposal. No. 1,139,402; May 11; Gaz. vol. 214; p. 628.
- Davidson, Joshua E. (See Degener and Davidson.)
- Davidson, Levi O., Strang, Okla. Cultivator attachment. No. 1,125,974; Jan. 26; Gaz. vol. 210; p. 1091.
- Davidson, Louis, New York, N. Y. Antiskidding device for automobile-wheels. No. 1,123,702; Jan. 5; Gaz. vol. 210; p. 171.
- Davidson, Mary E., administratrix. (See Lofland and Davidson.)
- Davidson, Samuel C., Belfast, Ireland. Treatment of latex and the extraction of india-rubber therefrom. No. 1,145,351; July 6; Gaz. vol. 216; p. 130.
- Davidson, Samuel C., Belfast, Ireland. Extraction or coagulation of india-rubber from the latex. No. 1,145,352; July 6; Gaz. vol. 216; p. 130.
- Davidson, Samuel C., Belfast, Ireland. Treatment of latex. No. 1,146,851; July 20; Gaz. vol. 216; p. 696.
- Davidson, Samuel C., Belfast, Ireland. Centrifugal fan and pump. No. 1,149,638; Aug. 10; Gaz. vol. 217; p. 517.
- Davidson, Samuel C., Belfast, Ireland, assignor, by mesne assignments, to American Blower Company, Green Island, N. Y. Centrifugal fan and pump. No. 1,143,365; June 15; Gaz. vol. 215; p. 876.
- Davidson, Thomas, Gladwyne, Pa. Dump-wagon. No. 1,152,303; Aug. 31; Gaz. vol. 217; p. 1605.
- Davidson, William A., Wick, Scotland. Food-preserving and like can. No. 1,128,231; Feb. 9; Gaz. vol. 211; p. 589.
- Davidson, William A., Vancouver, British Columbia, Canada. Surveyor's flagpole. No. 1,131,915; Mar. 16; Gaz. vol. 212; p. 791.
- Davidson, William J., Hartford, Conn. Collar-band. No. 1,154,909; Sept. 28; Gaz. vol. 218; p. 989.
- Davidson, William J., Winnipeg, Manitoba, Canada. Ash-sifting shovel. No. 1,165,574; Dec. 28; Gaz. vol. 221; p. 1116.
- Davies, Olin W., Oklahoma, Okla. Silo. No. 1,125,070; Jan. 19; Gaz. vol. 210; p. 736.
- Davies, Adrian D., and L. H. Bemen, assignors of one-third to W. H. Tyler, Pueblo, Colo., and two-thirds to said Davies. Alfalfa-mill. No. 1,143,106; June 15; Gaz. vol. 215; p. 784.
- Davies, Charles W. T., New York, N. Y. Folding cuff. No. 1,141,942; June 8; Gaz. vol. 215; p. 337.
- Davies, Charles W. T., New York, N. Y. Buttonhole for wearing-apparel. No. 1,147,485; July 20; Gaz. vol. 216; p. 919.
- Davies, Chester S. (See Davenport, William A., assignor.)
- Davies, David, North Carlton, Victoria, Australia. Life-boat convertible into deck-seats. No. 1,134,672; Apr. 6; Gaz. vol. 213; p. 215.
- Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Safety starting device. No. 1,162,225; Nov. 30; Gaz. vol. 220; p. 1520.
- Davies, Edward, Whittington, near Stourbridge, England. Direction-post. No. 1,164,996; Dec. 21; Gaz. vol. 221; p. 876.
- Davies, Francis E., London, England. Machine for labeling bottles, tins, and like containers. No. 1,146,311; July 13; Gaz. vol. 216; p. 487.
- Davies, George L., and W. E. W. Richards, London, England. Treatment of coal-tar. No. 1,148,011; July 27; Gaz. vol. 216; p. 1129.
- Davies, Harold. (See Perkins, Weizmann, and Davies.)
- Davies, John, Miskin, Mountain Ash, and J. Davies, Penrhywceiber, Wales. Hauling apparatus. No. 1,157,299; Oct. 19; Gaz. vol. 219; p. 746.
- Davies, John W. (See Stackpole, Joseph L., assignor.)
- Davies, John W. (See Wood, Edward C., assignor.)
- Davies, John W., Reading, Mass. Apparatus for treating milk and other fluids. No. 1,139,646; May 18; Gaz. vol. 214; p. 750.
- Davies, Kerrison M., Williamson, assignor to G. W. Cobb, New York, N. Y. String-bean snipper. No. 1,136,588; Apr. 20; Gaz. vol. 213; p. 971.
- Davies, Stephen. (See Hardy and Davies.)
- Davila, Luis C., El Paso, Tex. Table. No. 1,152,304; Aug. 31; Gaz. vol. 217; p. 1605.
- Davis, Absalom, Imboden, Ark. Bank-vault construction. No. 1,159,654; Nov. 9; Gaz. vol. 220; p. 467.
- Davis, Adolphus O., Wilson, N. C. Sprocket-guard for cycles. No. 1,136,411; Apr. 20; Gaz. vol. 213; p. 908.
- Davis, Albert C., Bootle, England. Ice-making apparatus. No. 1,148,578; Aug. 3; Gaz. vol. 217; p. 35.
- Davis, Albert E., Troy, and C. H. Pedrick, Jr., Green Island, N. Y. Street-sweeping machine. No. 1,148,579; Aug. 3; Gaz. vol. 217; p. 35.

Alphabetical list of patentees—Continued.

- Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Electric meter. No. 1,157,926; Oct. 26; Gaz. vol. 219; p. 1027.
- Davis, Albert G., Schenectady, N. Y., assignor to General Electric Company. Method and apparatus for safeguarding navigation. No. 1,166,331; Dec. 28; Gaz. vol. 221; p. 1386.
- Davis, Albert J., New York, N. Y. Preserving milk and milk products. No. 1,157,976; Oct. 26; Gaz. vol. 219; p. 1045.
- Davis, Albert L., Grand Rapids, Mich. Slicing-machine. No. 1,150,812; Aug. 17; Gaz. vol. 217; p. 990.
- Davis, Albert P., Deposit, N. Y. Photograph-film holder. No. 1,130,152; Mar. 2; Gaz. vol. 212; p. 107.
- Davis, Alex B., assignor to The Eli Lilly and Company, Indianapolis, Ind. Quinolin compound and producing the same. No. 1,138,936; May 11; Gaz. vol. 214; p. 464.
- Davis, Alex B., assignor to The Eli Lilly and Company, Indianapolis, Ind. Quinolin compound and producing the same. No. 1,138,937; May 11; Gaz. vol. 214; p. 465.
- Davis, Alex B., assignor to The Eli Lilly and Company, Indianapolis, Ind. Alkamin and producing same. No. 1,150,251; Aug. 17; Gaz. vol. 217; p. 797.
- Davis, Alex B., assignor to The Eli Lilly and Company, Indianapolis, Ind. Alkamin and producing same. No. 1,150,252; Aug. 17; Gaz. vol. 217; p. 798.
- Davis, Alex B., assignor to The Eli Lilly and Company, Indianapolis, Ind. Alkamin ester and producing same. No. 1,150,253; Aug. 17; Gaz. vol. 217; p. 798.
- Davis, Alex B., assignor to The Eli Lilly and Company, Indianapolis, Ind. Esters of alkamins and producing same. No. 1,150,580; Aug. 17; Gaz. vol. 217; p. 911.
- Davis, Andrew J., Jr., Baltimore, Md. Calk attachment for horseshoes. No. 1,131,998; Mar. 16; Gaz. vol. 212; p. 821.
- Davis, Arthur J., Kingston, Pa. Furniture. No. 1,135,162; Apr. 13; Gaz. vol. 213; p. 429.
- Davis, Arthur N., Berlin, Germany. Artificial tooth. No. 1,146,556; July 13; Gaz. vol. 216; p. 573.
- Davis, Arthur W., Savannah, Ga. Horse-collar. No. 1,160,861; Nov. 16; Gaz. vol. 220; p. 949.
- Davis Automatic Filing Company. (See Davis, Ernest S., assignor.)
- Davis, Bemiss N., New Orleans, La. Endless carrier for conveyers. No. 1,155,340; Oct. 5; Gaz. vol. 219; p. 6.
- Davis, Benjamin W., Seattle, Wash. Automatic ventilator and heat-regulator. No. 1,146,751; July 13; Gaz. vol. 216; p. 641.
- Davis, Benjamin W., Phillips, Wis. Pneumatic spring. No. 1,152,609; Sept. 7; Gaz. vol. 218; p. 84.
- Davis, Bert L., Wichita, Kans. Vehicle. No. 1,154,616; Sept. 28; Gaz. vol. 218; p. 890.
- Davis, Bethuel M., assignor, by mesne assignments, to Automatic Electric Company, Chicago, Ill. Telephone system. No. 1,146,786; July 20; Gaz. vol. 216; p. 674.
- Davis-Bourneville Company. (See Burdett, John B., assignor.)
- Davis Brake Beam Company. (See Weaver, Frank R., assignor.)
- Davis, Calvin R., Chicago Heights, assignor to Emerson-Brantingham Company, Rockford, Ill. Straw-spreader. No. 1,124,711; Jan. 12; Gaz. vol. 210; p. 573.
- Davis, Carey A., and F. E. Reigle, Washington, D. C. Safety carbon-removing torch. No. 1,127,867; Feb. 9; Gaz. vol. 211; p. 463.
- Davis, Carl H., assignor to United States Envelop Sealing Machine Company, Springfield, Mass. Envelop-sealing machine. No. 1,139,499; May 18; Gaz. vol. 214; p. 699.
- Davis, Charles E., Chicago, Ill. Device for preventing obstruction of carburetor feed-pipes. No. 1,125,485; Jan. 19; Gaz. vol. 210; p. 884.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine truck. No. 1,141,943; June 8; Gaz. vol. 215; p. 337.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,149,502; Aug. 10; Gaz. vol. 217; p. 464.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,149,503; Aug. 10; Gaz. vol. 217; p. 464.
- Davis, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 1,124,712; Jan. 12; Gaz. vol. 210; p. 574.
- Davis, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clamp. No. 1,126,162; Jan. 26; Gaz. vol. 210; p. 1159.
- Davis, Charles K., Detroit, Mich. Smelting-furnace. No. 1,165,393; Dec. 28; Gaz. vol. 221; p. 1053.
- Davis, Charles L. (See Roberts and Davis.)
- Davis, Charles T., Brooklyn, N. Y. Means for packing surgical ligatures and sutures. No. 1,123,497; Jan. 5; Gaz. vol. 210; p. 102.
- Davis, Charles W. (See Coburn and Davis.)
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Junction-box. No. 1,130,482; Mar. 2; Gaz. vol. 212; p. 225.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Terminal for cables entering junction-boxes. No. 1,130,483; Mar. 2; Gaz. vol. 212; p. 226.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric fuse. No. 1,130,484; Mar. 2; Gaz. vol. 212; p. 226.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric fuse. No. 1,130,485; Mar. 2; Gaz. vol. 212; p. 227.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric fuse. No. 1,130,486; Mar. 2; Gaz. vol. 212; p. 227.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric fuse. No. 1,130,487; Mar. 2; Gaz. vol. 212; p. 228.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Multiple-conductor electrical cable. No. 1,132,451; Mar. 16; Gaz. vol. 212; p. 986.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Multiple-conductor cable. No. 1,132,452; Mar. 16; Gaz. vol. 212; p. 987.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric fuse. No. 1,152,147; Aug. 31; Gaz. vol. 217; p. 1552.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric fuse. No. 1,152,148; Aug. 31; Gaz. vol. 217; p. 1553.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Electric fuse. No. 1,152,149; Aug. 31; Gaz. vol. 217; p. 1553.
- Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Terminal structure. No. 1,159,655; Nov. 9; Gaz. vol. 220; p. 468.
- Davis, Claude H., Wanganui, and A. D. Cuff, Gonville, Wanganui, New Zealand. Milking-machine. No. 1,159,185; Nov. 2; Gaz. vol. 220; p. 270.
- Davis, Cleland, U. S. Navy, assignor to Ordnance Development Company of America, Wilmington, Del. Contour-cap for armor-piercing projectiles. No. 1,132,453; Mar. 16; Gaz. vol. 212; p. 987.
- Davis, Cleland, U. S. Navy, assignor to Ordnance Development Company of America, Wilmington, Del. Contour-cap for projectiles. No. 1,135,772; Apr. 13; Gaz. vol. 213; p. 640.
- Davis, Cleland, U. S. Navy, assignor to Ordnance Development Company, New York, N. Y. Contour-base for projectiles. No. 1,141,042; May 25; Gaz. vol. 214; p. 1274.
- Davis, Cortland W., Chicago, Ill. Signal-lamp control for vehicles. No. 1,165,853; Dec. 28; Gaz. vol. 221; p. 1213.
- Davis, Curtis P. (See Davis, Frank R. and C. P.)
- Davis, David, New York, N. Y. Attachment for a burner. No. 1,157,511; Oct. 19; Gaz. vol. 219; p. 820.
- Davis, David C., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor-rectifier. No. 1,150,017; Aug. 17; Gaz. vol. 217; p. 712.
- Davis, David C., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrode-cooling system. No. 1,159,903; Nov. 9; Gaz. vol. 220; p. 558.
- Davis, Donald C., Depew, assignor to Gould Coupler Company, New York, N. Y. Railway-coupling. No. 1,148,293; July 27; Gaz. vol. 216; p. 1230.
- Davis, Edward G., Paris Crossing, Ind. Fuse. No. 1,128,764; Feb. 16; Gaz. vol. 211; p. 821.
- Davis, Edward W., Minneapolis, Minn. Magnetic ore-washer. No. 1,153,037; Sept. 7; Gaz. vol. 218; p. 239.
- Davis, Elmer E., West Chicago, Ill. Fluid-compressor. No. 1,135,671; Apr. 13; Gaz. vol. 213; p. 607.
- Davis, Elmer E., assignor to Union Engine and Manufacturing Company, Butler, Pa. Fluid-compressor. (Re-issue.) No. 13,949; July 20; Gaz. vol. 216; p. 995.
- Davis, Emanuel M. (See Allen, Alonzo W., assignor.)
- Davis, Ernest S., assignor to Davis Automatic Filing Company, Bristol, Tenn. Indexing system. No. 1,125,071; Jan. 19; Gaz. vol. 210; p. 736.
- Davis, Eugene H. (See Lacroix, Joseph D., assignor.)
- Davis, Eugene H., Grand Junction, Colo. Car-door. No. 1,129,795; Feb. 23; Gaz. vol. 211; p. 1217.
- Davis, Ferdinand, Uniontown, Pa. Safety device for mine-cars. No. 1,132,914; Mar. 23; Gaz. vol. 212; p. 1204.
- Davis, Frank C., Tucson, Ariz. Holder. No. 1,127,602; Feb. 9; Gaz. vol. 211; p. 368.
- Davis, Frank E., La Crosse, Wis. Cultivator. No. 1,138,635; May 11; Gaz. vol. 214; p. 357.
- Davis, Frank E., assignor to La Crosse Plow Co., La Crosse, Wis. Plow. No. 1,130,714; Mar. 9; Gaz. vol. 212; p. 339.
- Davis, Frank H., and C. Schumacher, Brooklyn, N. Y. Metallic leaf-ribbon. No. 1,124,114; Jan. 5; Gaz. vol. 210; p. 311.
- Davis, Frank H., Floral Park, and C. Schumacher, Brooklyn, N. Y. Gold-leafing surfaces. No. 1,124,869; Jan. 12; Gaz. vol. 210; p. 631.
- Davis, Frank R. and C. P., Des Moines, Iowa. Time-controlled advertising device. No. 1,138,090; May 4; Gaz. vol. 214; p. 130.
- Davis, Franklin T., Mount Vernon, N. Y. Sash-fastener. No. 1,127,200; Feb. 2; Gaz. vol. 211; p. 189.
- Davis, Frederick J. (See Krohn and Davis.)
- Davis, Frederick W., assignor to Frigid Fluid Company, Chicago, Ill. Record-book. No. 1,138,636; May 11; Gaz. vol. 214; p. 357.

Alphabetical list of patentees—Continued.

- Davis & Furber Machine Co. (See Thiel, Charles P. R., assignor.)
- Davis, George, Sharon, Pa. Hose-nozzle support. No. 1,141,106; June 1; Gaz. vol. 215; p. 6.
- Davis, George E., *et al.* (See Benn, William E., assignor.)
- Davis, George G., assignor of one-half to J. A. Goben, Indianapolis, Ind. Vehicle-wheel. No. 1,152,150; Aug. 31; Gaz. vol. 217; p. 1554.
- Davis, George H., Worcester, Mass. Coin-operated signaling device. No. 1,150,254; Aug. 17; Gaz. vol. 217; p. 798.
- Davis, George H., West Orange, N. J. Music-roll. No. 1,156,891; Oct. 19; Gaz. vol. 219; p. 600.
- Davis, George H., West Orange, N. J. Music-roll. No. 1,158,122; Oct. 26; Gaz. vol. 219; p. 1097.
- Davis, George H., New Orleans, La., assignor to Ford, Bacon & Davis, New York, N. Y. Bale or package removing mechanism. No. 1,149,250; Aug. 10; Gaz. vol. 217; p. 373.
- Davis, George M., *et al.* (See Swyers, Brice P., assignor.)
- Davis, Gilbert G., Vancouver, British Columbia, Canada. Log-raft. No. 1,142,239; June 8; Gaz. vol. 215; p. 442.
- Davis, Grant T., Clinton, Mich. Internal-combustion turbine. No. 1,160,145; Nov. 16; Gaz. vol. 220; p. 696.
- Davis Hardware Manufacturing Company. (See Davis, Henry O., assignor.)
- Davis, Harold I., Erie, Pa. Garment-hanger. No. 1,165,575; Dec. 28; Gaz. vol. 221; p. 1116.
- Davis, Harold M., Elizabethtown, N. Y. Grease-gun. No. 1,165,156; Dec. 21; Gaz. vol. 221; p. 933.
- Davis, Harry A., assignor to Draper Company, Hopedale, Mass. Leno or cross-weaving loom. No. 1,160,266; Nov. 16; Gaz. vol. 220; p. 738.
- Davis, Harry G., assignor to The H. G. Davis Manufacturing Company, Philadelphia, Pa. Pin-ticket machine. No. 1,156,672; Oct. 12; Gaz. vol. 219; p. 495.
- Davis, Harry P., Pittsburgh, and C. Aalborg, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,123,255; Jan. 5; Gaz. vol. 210; p. 18.
- Davis, Harry P., Pittsburgh, and C. Aalborg, Wilkesburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,140,961; May 25; Gaz. vol. 214; p. 1248.
- Davis, Harry P., Pittsburgh, and F. Conrad, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 1,138,637; May 11; Gaz. vol. 214; p. 358.
- Davis, Harry P., and F. Conrad, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 1,159,904; Nov. 9; Gaz. vol. 220; p. 558.
- Davis, Harvey M., Kinmundy, Ill. Road-drag. No. 1,138,735; May 11; Gaz. vol. 214; p. 394.
- Davis, Henry I., Ann Arbor, Mich. Mop-head. No. 1,135,098; Apr. 13; Gaz. vol. 213; p. 406.
- Davis, Henry O., Plymouth, Mass. Last-tube. No. 1,153,201; Sept. 14; Gaz. vol. 218; p. 333.
- Davis, Henry O., assignor to Davis Hardware Manufacturing Company, Gloucester, Mass. Expansive bit. No. 1,165,854; Dec. 28; Gaz. vol. 221; p. 1214.
- Davis, Herbert C., New York, N. Y., and E. D. Chadwick, Winchester, Mass. Signaling apparatus. No. 1,138,543; May 4; Gaz. vol. 214; p. 287.
- Davis, Hermann F., assignor of one-half to D. W. Roberts, St. Augustine, Fla. Foot-gear attachment. No. 1,164,788; Dec. 21; Gaz. vol. 221; p. 804.
- Davis, Hiram B., Denver, Colo. Chair. No. 1,127,413; Feb. 9; Gaz. vol. 211; p. 301.
- Davis, Hiram B., Denver, Colo. Stool and the like. No. 1,151,164; Aug. 24; Gaz. vol. 217; p. 1169.
- Davis, Horace W. (See Hudson, Frank W., assignor.)
- Davis, Horace W., Sharon, Pa. Type-writing machine. No. 1,155,707; Oct. 5; Gaz. vol. 219; p. 133.
- Davis, Isaac H., Boston, Mass., assignor of two-thirds to H. H. Westinghouse, New York, N. Y. Motor lawnmower. No. 1,124,214; Jan. 5; Gaz. vol. 210; p. 347.
- Davis, Isaac H., Newtonville, Mass., assignor of one-half to H. H. Westinghouse, New York, N. Y., and one-half to M. C. Davis, Boston, Mass. Shock-operated speed-controlling apparatus for self-propelled vehicles. No. 1,155,471; Oct. 5; Gaz. vol. 219; p. 51.
- Davis, James, St. James, Mo. Brake-shoe holder. No. 1,161,849; Nov. 30; Gaz. vol. 220; p. 1388.
- Davis, James A., Washington, D. C. Antislipping-horse-shoe attachment. No. 1,131,337; Mar. 9; Gaz. vol. 212; p. 553.
- Davis, James A., Washington, D. C. Horseshoe attachment. No. 1,142,028; June 8; Gaz. vol. 215; p. 369.
- Davis, James A. R., Burlington, N. C. Furniture-joint. No. 1,163,976; Dec. 14; Gaz. vol. 221; p. 479.
- Davis, James C., *et al.* (See McCoy, Robert J., assignor.)
- Davis, James C., Hinsdale, Ill. Mold. No. 1,161,034; Nov. 23; Gaz. vol. 220; p. 1055.
- Davis, James C., Hinsdale, Ill., assignor to American Steel Foundries, New York, N. Y. Regenerator. No. 1,124,870; Jan. 12; Gaz. vol. 210; p. 631.
- Davis, James C., Hinsdale, Ill., assignor to American Steel Foundries, New York, N. Y. Open-hearth furnace. No. 1,143,690; June 22; Gaz. vol. 215; p. 1012.
- Davis, James C., Hinsdale, Ill., assignor to American Steel Foundries, New York, N. Y. Method of and apparatus for venting molds. No. 1,157,847; Oct. 26; Gaz. vol. 219; p. 999.
- Davis, James C., Hinsdale, Ill., assignor to American Steel Foundries, New York, N. Y. Center plate. No. 1,157,848; Oct. 26; Gaz. vol. 219; p. 999.
- Davis, James C., Hinsdale, Ill., assignor to American Steel Foundries, New York, N. Y. Molding steel castings. No. 1,165,651; Dec. 28; Gaz. vol. 221; p. 1144.
- Davis, James C., Hinsdale, F. C. Henke, East St. Louis, and W. H. Hawley, Granite City, Ill., assignors to American Steel Foundries, New York, N. Y. Apparatus for drying sand. No. 1,151,667; Aug. 31; Gaz. vol. 217; p. 1385.
- Davis, James M., Wytheville, Va. Nut-lock. No. 1,143,254; June 15; Gaz. vol. 215; p. 838.
- Davis, James W., Birmingham, Ala. Water-heater. No. 1,133,271; Mar. 30; Gaz. vol. 212; p. 1369.
- Davis, James W., Coalgate, Okla. Tool for drawing castings from wells. No. 1,145,125; July 6; Gaz. vol. 216; p. 54.
- Davis, Jasper N., Denver, Colo. Storage-battery-separator construction. No. 1,128,232; Feb. 9; Gaz. vol. 211; p. 589.
- Davis, Jethro, Raritan, Ill. Automobile-jack. No. 1,165,762; Dec. 28; Gaz. vol. 221; p. 1184.
- Davis, John A., Spokane, Wash. Combination garden and farm tool. No. 1,129,338; Feb. 23; Gaz. vol. 211; p. 1060.
- Davis, John B., Toledo, Ohio. Resilient wheel. No. 1,135,994; Apr. 20; Gaz. vol. 213; p. 760.
- Davis, John B., Toledo, Ohio. Dish-washer. No. 1,158,452; Nov. 2; Gaz. vol. 220; p. 15.
- Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Filtering apparatus. No. 1,156,592; Oct. 12; Gaz. vol. 219; p. 466.
- Davis, John C., Port Huron, Mich. Playing-cards. No. 1,143,042; June 15; Gaz. vol. 215; p. 762.
- Davis, John R. (See Hart and Davis.)
- Davis, John R., and U. M. Richardson, assignors to Rex Revolving Light Company, Inc., Vine Grove, Ky. Headlight. No. 1,141,780; June 1; Gaz. vol. 215; p. 244.
- Davis, John T., Alameda, assignor to F. W. Clayton, San Francisco, Cal. Method of and apparatus for distilling oil. No. 1,159,186; Nov. 2; Gaz. vol. 220; p. 270.
- Davis, Joseph K., assignor to Scovill Manufacturing Company, Waterbury, Conn. Draft-deflector for lamp-burners. No. 1,151,512; Aug. 24; Gaz. vol. 217; p. 1286.
- Davis, Joseph L., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Locomotive. No. 1,138,638; May 11; Gaz. vol. 214; p. 358.
- Davis, Joseph L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,151,761; Aug. 31; Gaz. vol. 217; p. 1418.
- Davis, Linford J., Battle Creek, Mich. Receptacle support and cover operating and locking means. No. 1,131,774; Mar. 16; Gaz. vol. 212; p. 740.
- Davis, Logee E., Hincley, Ill. Device for reboring engine-cylinders. No. 1,160,267; Nov. 16; Gaz. vol. 220; p. 738.
- Davis, Lorremmer, Birmingham, Ala. Trolley. No. 1,162,984; Dec. 7; Gaz. vol. 221; p. 86.
- Davis, Louis P. (See Sullivan and Davis.)
- Davis, Mary C., *et al.* (See Davis, Isaac H., assignor.)
- Davis, Miles L., and J. G. Robbins, Lancaster, assignors of one-half to L. J. Schumaker, Philadelphia, Pa. Pretzel cutter and roller. No. 1,127,967; Feb. 9; Gaz. vol. 211; p. 498.
- Davis, Milton E., Canastota, N. Y. Mop-wringer. No. 1,157,152; Oct. 19; Gaz. vol. 219; p. 693.
- Davis, Nathan H., Philadelphia, Pa. Reversible brake-beam strut. No. 1,163,741; Dec. 14; Gaz. vol. 221; p. 398.
- Davis, Nathan H., Philadelphia, Pa. Brake-head. No. 1,163,742; Dec. 14; Gaz. vol. 221; p. 399.
- Davis, Nelson W., assignor of one-half to Loper Brothers, Port Jefferson, N. Y. Pump. No. 1,146,312; July 13; Gaz. vol. 216; p. 487.
- Davis, Norris K., Hillsboro, Cal. Spacing-machine. No. 1,132,169; Mar. 16; Gaz. vol. 212; p. 884.
- Davis, Oscar C., assignor of one-half to G. E. Keith, Brockton, Mass. Shoe. No. 1,129,649; Feb. 23; Gaz. vol. 211; p. 1169.
- Davis, Oscar C., assignor of one-half to G. E. Keith, Brockton, Mass. Welt-strip. No. 1,139,403; May 11; Gaz. vol. 214; p. 628.
- Davis, Otis L., assignor of one-half to R. L. Price, Iowa City, Iowa. Stock water-tank. No. 1,165,411; Dec. 28; Gaz. vol. 221; p. 1415.
- Davis, Phillip M., *et al.* (See Grady, Frank W., assignor.)
- Davis, Pierre A. P., Baltimore, Md. Call-box. No. 1,148,484; July 27; Gaz. vol. 216; p. 1297.
- Davis, Ray W., assignor of one-half to W. B. Chalfant, Brownsville, Pa. Cross-head. No. 1,128,109; Feb. 9; Gaz. vol. 211; p. 547.
- Davis, Ray W., assignor of one-half to W. B. Chalfant, Brownsville, Pa. Railway-car truck. No. 1,128,110; Feb. 9; Gaz. vol. 211; p. 548.

Alphabetical list of patentees—Continued.

- Davis, Ray W., assignor of one-half to W. B. Chalfant, Brownsville, Pa. Portable breastwork. No. 1,155,895; Oct. 5; Gaz. vol. 219; p. 198.
- Davis, Ray W., Brownsville, assignor of one-half to J. Ryan, South Brownsville, Pa. Locking device for lubricator-plungers. No. 1,129,173; Feb. 23; Gaz. vol. 211; p. 1003.
- Davis, Robert H. (See Luellen, Lawrence W., assignor.)
- Davis, Robert H., New York, N. Y. Golf-club. No. 1,154,490; Sept. 21; Gaz. vol. 218; p. 818.
- Davis, Robert J., assignor to E. V. Methven, Chicago, Ill. Binder. No. 1,156,467; Oct. 12; Gaz. vol. 219; p. 423.
- Davis, Robert W., Chicago, Ill. Garment. No. 1,125,667; Jan. 19; Gaz. vol. 210; p. 950.
- Davis, Samuel H. (See Boyle, Homer L., assignor.)
- Davis, Samuel W., San Angelo, Tex. Attachment for fishing-floats. No. 1,149,033; Aug. 3; Gaz. vol. 217; p. 194.
- Davis Sewing Machine Company, The. (See Budroe, Charles F., assignor.)
- Davis Sewing Machine Company, The. (See Davis and Van Allen, assignors.)
- Davis Sewing Machine Company, The. (See Yable, William J., assignor.)
- Davis, Solomon S., New Castle, Pa. Automatic signal device. No. 1,166,332; Dec. 28; Gaz. vol. 221; p. 1386.
- Davis, Stanley J., Watertown, N. Y. Paper-stock feeding and weighing machine. No. 1,141,233; June 1; Gaz. vol. 215; p. 50.
- Davis, Thomas, Vancouver, British Columbia, Canada. Cross-tie. No. 1,141,444; June 1; Gaz. vol. 215; p. 128.
- Davis, Thomas, and A. Reininger, San Francisco, Cal. Milk-can container and server. No. 1,142,940; June 15; Gaz. vol. 215; p. 726.
- Davis, Thomas C., *et al.* (See Annis, Daniel J., assignor.)
- Davis, Thomas J., New York, N. Y. Dental amalgam. No. 1,164,997; Dec. 21; Gaz. vol. 221; p. 877.
- Davis, Thomas J., San Francisco, Cal. Milk-can container and server. No. 1,165,229; Dec. 21; Gaz. vol. 221; p. 959.
- Davis, Thomas W., Elizabeth, N. J. Pressure-controlling valve. No. 1,154,385; Sept. 21; Gaz. vol. 218; p. 783.
- Davis, Vernard O., *et al.* (See Wheeler, Richard, assignor.)
- Davis, Viola J. (See Doering, Fred H., assignor.)
- Davis, Walter L., Nashville, Tenn. Water-cooler. No. 1,157,927; Oct. 26; Gaz. vol. 219; p. 1027.
- Davis, Walter M., Music-indicator. No. 1,131,481; Mar. 9; Gaz. vol. 212; p. 603.
- Davis, Walter M., Paris, France. Combined piano-player and phonograph. No. 1,164,265; Dec. 14; Gaz. vol. 221; p. 579.
- Davis, Whitney E. (See Yard and Davis.)
- Davis, William A., and A. Greenwood, Knoxville, Tenn. Bed. No. 1,142,876; June 15; Gaz. vol. 215; p. 703.
- Davis, William C. (See Cooke and Davis.)
- Davis, William E., New Ipswich, N. H. Amusement device. No. 1,138,091; May 4; Gaz. vol. 214; p. 131.
- Davis, William E., New Ipswich, N. H. Game-counter. No. 1,151,668; Aug. 31; Gaz. vol. 217; p. 1386.
- Davis, William E., New Ipswich, N. H. Screw-driver. No. 1,162,461; Nov. 30; Gaz. vol. 220; p. 1601.
- Davis, William H., Muncie, Ind. Lamplblack-machine. No. 1,160,862; Nov. 16; Gaz. vol. 220; p. 950.
- Davis, William J., Enfield, assignor to Edison and Swan United Electric Light Company Limited, London, England. Electromagnetic measuring instrument. No. 1,123,855; Jan. 5; Gaz. vol. 210; p. 224.
- Davis, William J., C. S. Melrose, and F. M. Fisher, Windfall, Ind. Rail-joint. No. 1,151,448; Aug. 24; Gaz. vol. 217; p. 1261.
- Davis, William J., Jr., and A. P. Nirdlinger, Chicago, Ill. Adjustable flood and spot light. No. 1,140,880; May 25; Gaz. vol. 214; p. 1218.
- Davis, William L., and F. L. Van Allen, assignors to The Davis Sewing Machine Company, Dayton, Ohio. Adjustable tension device for sewing machines. No. 1,125,975; Jan. 26; Gaz. vol. 210; p. 1091.
- Davis, William M., Akron, Ohio. Valve. No. 1,136,589; Apr. 20; Gaz. vol. 213; p. 971.
- Davis, William R., Toledo, Ohio. Lathe-dog. No. 1,155,553; Oct. 5; Gaz. vol. 219; p. 80.
- Davis, William T., *et al.* (See Devore, Daniel B., assignor.)
- Davis, William W., Sylacauga, Ala. Combined harrow and cultivator. No. 1,142,081; June 8; Gaz. vol. 215; p. 387.
- Davis, William W., Chicago, Ill. Burglar-proof window. No. 1,142,403; June 8; Gaz. vol. 215; p. 501.
- Davis, William W., and W. Jaeschke, San Francisco, Cal. Filling-nozzle. No. 1,150,420; Aug. 17; Gaz. vol. 217; p. 854.
- Davis, Winfield H., Rutherford, N. J. Adjustable track-gage. No. 1,153,769; Sept. 14; Gaz. vol. 218; p. 534.
- Davison, Edwin C., Bellevue, and E. M. Sherman, Seattle, Wash.; said Davison assignor to said Sherman. Compass-protractor. No. 1,161,625; Nov. 23; Gaz. vol. 220; p. 1264.
- Davison, George L., assignor to Rubm Phosphate Mining Company, Mount Pleasant, Tenn. Apparatus for washing phosphate-rock. No. 1,140,962; May 25; Gaz. vol. 214; p. 1248.
- Davison, Gregory C., New London, Conn., assignor to Electric Boat Company, New York, N. Y. Turbine-driven torpedo. No. 1,126,183; Jan. 26; Gaz. vol. 210; p. 1169.
- Davison, Gregory C., New London, Conn., assignor to Electric Boat Company, New York, N. Y. Two-cycle multiple-expansion Diesel engine. No. 1,138,938; May 11; Gaz. vol. 214; p. 465.
- Davison, Gregory C., and J. W. Anderson, New London, Conn., assignors to Electric Boat Company, New York, N. Y. Starting mechanism for internal-combustion engines. No. 1,157,849; Oct. 26; Gaz. vol. 219; p. 999.
- Davison, Guy S., Holderness, N. H. Motor-vehicle extension drive-shaft. No. 1,163,643; Dec. 14; Gaz. vol. 221; p. 362.
- Davison, John O., Memphis, Tenn. Concrete building construction. No. 1,141,445; June 1; Gaz. vol. 215; p. 128.
- Davison, Thomas, Brantford, Ontario, Canada. Rail-anchor. No. 1,136,777; Apr. 20; Gaz. vol. 213; p. 1037.
- Davock, Clarence W. (See Briggs and Davock.)
- Davol, George K., San Francisco, Cal. Piston for internal-combustion engines. No. 1,156,590; Oct. 12; Gaz. vol. 219; p. 465.
- Davol, George K., San Francisco, Cal. Valve-gear. No. 1,160,582; Nov. 16; Gaz. vol. 220; p. 849.
- Davol Rubber Company. (See Clemens, John A., assignor.)
- Davol Rubber Company. (See Wesley and Lamont, assignor.)
- Davoplane Bed Company. (See Seng and Dyke, assignors.)
- Davy Brothers Limited. (See Holmes, Thomas E., assignor.)
- Davy, Clarence F., Fitzroy, New Zealand. Protective bottle. No. 1,130,488; Mar. 2; Gaz. vol. 212; p. 228.
- Dawkins, Frederick. (See Ahern, Michael V., assignor.)
- Dawley, Clarence A., Plainfield, N. J. Automatic storage-battery lighting system. No. 1,126,184; Jan. 26; Gaz. vol. 210; p. 1169.
- Dawley, Clarence A., Plainfield, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Pulsator for pulsatory tools. No. 1,126,959; Feb. 2; Gaz. vol. 211; p. 103.
- Dawley, Clarence A., Plainfield, N. J., assignor to Ingersoll-Rand Company. Rock-drill. No. 1,148,760; Aug. 3; Gaz. vol. 217; p. 100.
- Dawley, Clarence A., Plainfield, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Pulsatory tool. No. 1,154,977; Sept. 28; Gaz. vol. 218; p. 1012.
- Dawsey, John E., Conway, S. C. Spring-wheel. No. 1,140,963; May 25; Gaz. vol. 214; p. 1249.
- Dawsey, John E., Conway, S. C. Timepiece. No. 1,153,038; Sept. 7; Gaz. vol. 218; p. 240.
- Dawson, Arthur T., and G. T. Buckham, London, assignors, by mesne assignments, to Vickers Limited, Westminster, England. Barrel-carriage for ordnance. No. 1,128,591; Feb. 16; Gaz. vol. 211; p. 763.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Lock mechanism of breech-loading guns. No. 1,147,217; July 20; Gaz. vol. 216; p. 825.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,152,079; Aug. 31; Gaz. vol. 217; p. 1529.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Range-indicating mechanism. No. 1,161,292; Nov. 23; Gaz. vol. 220; p. 1148.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Lock mechanism of breech-loading guns. No. 1,163,811; Dec. 14; Gaz. vol. 221; p. 423.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Lock mechanism of breech-loading guns. No. 1,163,812; Dec. 14; Gaz. vol. 221; p. 424.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Control system for gun-mountings and other mechanism. No. 1,143,948; June 22; Gaz. vol. 215; p. 1100.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Loading apparatus of heavy guns. No. 1,157,682; Oct. 26; Gaz. vol. 219; p. 942.
- Dawson, Charles W., Chicago, Ill. Stapling device. No. 1,166,190; Dec. 28; Gaz. vol. 221; p. 1335.
- Dawson, Clarence L., Los Angeles, Cal. Inner tube for pneumatic tires. No. 1,138,544; May 4; Gaz. vol. 214; p. 288.
- Dawson, Edward S., Jr., Schenectady, N. Y., assignor to General Electric Company. Resinous composition and making the same. No. 1,141,944; June 8; Gaz. vol. 215; p. 338.
- Dawson, Isaac L., Maple Hill, Kans. System and apparatus for disposing of plant-stalks. No. 1,162,985; Dec. 7; Gaz. vol. 221; p. 87.
- Dawson, James C., Kirkwood, Mo. Shiftable-sheet binder. No. 1,132,306; Mar. 16; Gaz. vol. 212; p. 936.

Alphabetical list of patentees—Continued.

- Dawson, James C., Kirkwood, Mo. Shiftable-sheet binder. No. 1,140,360; May 25; Gaz. vol. 214; p. 1035.
- Dawson, James W., Yalesville, Conn. Rotary explosive-engine. No. 1,125,486; Jan. 19; Gaz. vol. 210; p. 884.
- Dawson, John W. (See Spencer and Dawson.)
- Dawson, Joseph W., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle-brushing machine. No. 1,161,458; Nov. 23; Gaz. vol. 220; p. 1207.
- Dawson, Lance L. (See Roach and Dawson.)
- Dawson, Minnie M., Monaca, Pa. Game apparatus. No. 1,147,218; July 20; Gaz. vol. 216; p. 826.
- Dawson, Robert C., Barnesboro borough, assignor of one-fourth to L. N. Morgan, one-fourth to T. F. Wiley, and one-fourth to G. Turner, McKeesport, Pa. Electric control system for railways. No. 1,126,412; Jan. 26; Gaz. vol. 210; p. 1249.
- Dawson, William A., Delta, Colo. Resilient automobile-wheel. No. 1,130,891; Mar. 9; Gaz. vol. 212; p. 400.
- Day, Abraham, Bloomfield, assignor of one-fourth to A. R. Hopkins, Montclair, N. J. Condenser. No. 1,134,518; Apr. 6; Gaz. vol. 213; p. 159.
- Day, Albert V. T. (See Coleman and Day.)
- Day, Albert V. T., assignor, by mesne assignments, to Hall Switch & Signal Company, New York, N. Y. Combined railway electric traction, telegraph, and signal system. No. 1,125,487; Jan. 19; Gaz. vol. 210; p. 884.
- Day, Albert V. T., New Rochelle, assignor, by mesne assignments, to Hall Switch & Signal Company, New York, N. Y. Railway signaling system. No. 1,125,488; Jan. 19; Gaz. vol. 210; p. 885.
- Day, Albert V. T., New Rochelle, assignor, by mesne assignments, to Hall Switch & Signal Company, New York, N. Y. Railway-traffic-controlling system. No. 1,144,465; June 29; Gaz. vol. 215; p. 1310.
- Day, Albert V. T., New Rochelle, N. Y., assignor to The Hall Switch and Signal Company. Traffic-controlling system for railways. No. 1,157,850; Oct. 26; Gaz. vol. 219; p. 1000.
- Day, Albert V. T., New Rochelle, assignor, by mesne assignments, to Hall Switch & Signal Company, New York, N. Y. Railway-traffic-controlling apparatus. No. 1,163,069; Dec. 7; Gaz. vol. 221; p. 116.
- Day, Albert V. T., New Rochelle, N. Y., assignor to The Hall Switch and Signal Company. Relay. No. 1,163,070; Dec. 7; Gaz. vol. 221; p. 117.
- Day, Alfred L., Chicago, Ill. Perforating-machine. No. 1,140,505; May 25; Gaz. vol. 214; p. 1089.
- Day, Alfred L., assignor to American Perforator Company, Chicago, Ill. Perforating-machine. No. 1,124,305; Jan. 12; Gaz. vol. 210; p. 427.
- Day, Charles, Arnold, assignor of one-half to J. J. Nigon, New Kensington, Pa. Fluid-pressure-controlling mechanism for glass-drawing machines. No. 1,124,871; Jan. 12; Gaz. vol. 210; p. 632.
- Day, Charles, Arnold, assignor of one-half to J. J. Nigon, New Kensington, Pa. Air-valve for glass-drawing machines. No. 1,124,872; Jan. 12; Gaz. vol. 210; p. 632.
- Day, Charles L., Glencoe, Ill. Injecting device. No. 1,143,813; June 22; Gaz. vol. 215; p. 1053.
- Day, Charles T., Leeburg, Pa. Dumb-bell. No. 1,138,459; May 4; Gaz. vol. 214; p. 260.
- Day, Claude R., Arthur, W. Va. Friction-drive. No. 1,128,111; Feb. 9; Gaz. vol. 211; p. 548.
- Day, Claude R., Arthur, W. Va. Drip-cup for paint-brushes. No. 1,161,378; Nov. 23; Gaz. vol. 220; p. 1180.
- Day, Cleveland, Rayville, La. Grain-separator. No. 1,124,873; Jan. 12; Gaz. vol. 210; p. 632.
- Day, Edward J., assignor of one-half to O. H. Schulze, Milwaukee, Wis. Collapsible basket. No. 1,148,761; Aug. 3; Gaz. vol. 217; p. 101.
- Day, Edwin H., Bendigo, Victoria, Australia. Clipping or shearing apparatus. No. 1,128,765; Feb. 16; Gaz. vol. 211; p. 822.
- Day, Eugene R. (See Franz and Day.)
- Day, Frank R., Fall Brook, Cal. Radiator-cap ornament. No. 1,165,652; Dec. 28; Gaz. vol. 221; p. 1145.
- Day, Franklin M., Columbus, Ohio. Juice-extractor. No. 1,159,187; Nov. 2; Gaz. vol. 220; p. 270.
- Day, Frederick H., Dawson, Yukon Territory, Canada. Binding-post. No. 1,132,454; Mar. 16; Gaz. vol. 212; p. 988.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,142,313; June 8; Gaz. vol. 215; p. 467.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,145,058; July 6; Gaz. vol. 216; p. 31.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,159,751; Nov. 9; Gaz. vol. 220; p. 503.
- Day, George W., Gasport, N. Y. Tractor. No. 1,126,960; Feb. 2; Gaz. vol. 211; p. 103.
- Day, Medicus F., assignor of one-half to E. R. Brock, Belton, S. C. Adjustable bearing. No. 1,157,851; Oct. 26; Gaz. vol. 219; p. 1000.
- Day, Omar L., Portland, Oreg. Oil-burner. No. 1,131,916; Mar. 16; Gaz. vol. 212; p. 792.
- Day, Orin F., Valley, Wash. Buckle. No. 1,136,213; Apr. 20; Gaz. vol. 213; p. 836.
- Day, Percy C., Milwaukee, assignor to The Falk Company, Wauwatosa, Wis. Transmission-gearing. No. 1,151,762; Aug. 31; Gaz. vol. 217; p. 1418.
- Day, Salisbury M., Rochester, N. Y., assignor to General Railway Signal Company. Automatic block-signaling system for electric railways. No. 1,137,705; Apr. 27; Gaz. vol. 213; p. 1400.
- Day, Stillman, assignor to F. A. Whitney Carriage Co., Leominster, Mass. Folding vehicle. No. 1,136,659; Apr. 20; Gaz. vol. 213; p. 996.
- Day, Titus J., Damascus, Md. Box-fastener. No. 1,136,896; Apr. 20; Gaz. vol. 213; p. 1079.
- Day, Titus J., Damascus, Md. Collapsible package for parcel-post and other uses. No. 1,147,613; July 20; Gaz. vol. 216; p. 964.
- Day, Wilbur F., St. Paul, Minn. Burner. No. 1,130,070; Mar. 2; Gaz. vol. 212; p. 80.
- Day, Wilbur F., St. Paul, Minn. Kerosene-gas burner. No. 1,140,361; May 25; Gaz. vol. 214; p. 1036.
- Day, Wilbur F., St. Paul, Minn. Burner. No. 1,163,221; Dec. 7; Gaz. vol. 221; p. 170.
- Day, Wilbur F., St. Paul, Minn. Burner. (Reissue.) No. 14,030; Dec. 14; Gaz. vol. 221; p. 703.
- Day, William L. (See Bradley, William W., assignor.)
- Day, William T., Newton Upper Falls, Mass. Pane-fastener. No. 1,151,571; Aug. 31; Gaz. vol. 217; p. 1353.
- Day & Zimmerman. (See Remington, Joseph P., assignor.)
- Dayan, Sylvain, Montreal, Quebec, Canada. Attachment for gramophones. No. 1,160,146; Nov. 16; Gaz. vol. 220; p. 697.
- Daymon, Eugene A., Lima, Ohio. Automatic cylinder-cock. No. 1,153,770; Sept. 14; Gaz. vol. 218; p. 535.
- Dayton, Albert C., Northfield, Minn. Syringe. No. 1,136,109; Apr. 20; Gaz. vol. 213; p. 798.
- Dayton, Carl S., Newark, assignor, by mesne assignments, to The Toledo Glass Company, Toledo, Ohio. Apparatus for the manufacture of bottles and similar glassware. No. 1,148,474; July 27; Gaz. vol. 216; p. 1293.
- Dayton Engineering Laboratories Co., The. (See Kettering, Charles F., assignor.)
- Dayton, James M., assignor to Excelsior Needle Company, Torrington, Conn. Carbureter. No. 1,139,851; May 18; Gaz. vol. 214; p. 822.
- Dayton Novelty Company. (See Klepinger, Albert M., assignor.)
- Dayton, William H., assignor to Excelsior Needle Company, Torrington, Conn. Automatic spring-beard-needle-making machine. No. 1,136,778; Apr. 20; Gaz. vol. 213; p. 1037.
- De Angelis, John, Mount Vernon, N. Y. Trolley-pole. No. 1,140,126; May 18; Gaz. vol. 214; p. 921.
- De Arment, George B., assignor to The Champion Tool Company, Meadville, Pa. Tongs. No. 1,162,141; Nov. 30; Gaz. vol. 220; p. 1491.
- De Ayala, Stephen, Brooklyn, N. Y., assignor to Sargent & Company, New Haven, Conn. Grooving-plane. No. 1,158,648; Nov. 2; Gaz. vol. 220; p. 85.
- De Barbado, Frank, assignor to E. J. Reilly, Baltimore, Md. Shoe-polishing device. No. 1,142,679; June 8; Gaz. vol. 215; p. 595.
- De Barbieri, Augustus, *et al.* (See Spiegel, Joseph F., assignor.)
- De Bats, Jean H. L., Zelienople, Pa. Welding. No. 1,152,610; Sept. 7; Gaz. vol. 218; p. 84.
- De Bechi, Guy, London, England. Industrial separation of lead and zinc contained in the state of sulfides in ores. No. 1,157,153; Oct. 19; Gaz. vol. 219; p. 693.
- De Beers, Franklin M., Chicago, Ill. Evaporator. No. 1,140,881; May 25; Gaz. vol. 214; p. 1219.
- De Benedictis, Pellegrino, New York, N. Y. Rope and cord making machine. No. 1,124,397; Jan. 12; Gaz. vol. 210; p. 460.
- De Berry, Edmond P., Berkeley, assignor to Foard Starter Manufacturing Co., San Francisco, Cal. Starting device for automobiles. No. 1,150,421; Aug. 17; Gaz. vol. 217; p. 854.
- De Berry, Henry R., and R. H. Neff, Pittsburgh, Pa. Spark-arrester. No. 1,158,989; Nov. 2; Gaz. vol. 220; p. 201.
- De Boer, Bouka, Corsica, S. D. Grain-spout adjuster. No. 1,149,899; Aug. 10; Gaz. vol. 217; p. 609.
- De Bouzek, Jean A., Salt Lake City, Utah. Photographic camera. No. 1,130,576; Mar. 2; Gaz. vol. 212; p. 258.
- De Bretteville, Alexander, San Francisco, Cal. Well-drilling implement. No. 1,138,188; May 4; Gaz. vol. 214; p. 164.
- De Brown, Peter, and H. A. Schultz, Kawkawlin, Mich. Eye-shield for attachment to automobiles. No. 1,141,763; June 1; Gaz. vol. 215; p. 238.
- De Camp, James W., Blackwell, Okla. Glass casket. No. 1,123,856; Jan. 5; Gaz. vol. 210; p. 225.
- De Camp, Joseph W., Elkhorn, Mont. Safety nut-lock. No. 1,158,454; Nov. 2; Gaz. vol. 220; p. 15.
- De Camp, Witsel R., Roseland, N. J., assignor to Addometer Corporation, New York, N. Y. Roll-holder for calculators. No. 1,158,453; Nov. 2; Gaz. vol. 220; p. 15.
- De Cew, Judson A., Montreal, Quebec, Canada. Wood-preservative. No. 1,140,127; May 18; Gaz. vol. 214; p. 922.
- De Cew, Judson A., Montreal, Quebec, Canada. Hydrated cellulose or lignocellulose material. No. 1,140,799; May 25; Gaz. vol. 214; p. 1188.

- De Cew, Judson A., Montreal, Quebec, Canada. Non-corrosive compound for refrigerator-cars and the like. No. 1,141,446; June 1; Gaz. vol. 215; p. 129.
- De Cew, Judson A., Montreal, Quebec, Canada. Injector. No. 1,149,554; Aug. 10; Gaz. vol. 217; p. 483.
- De Cew, Judson A., Montreal, Quebec, Canada. Toxic product and making same. No. 1,155,708; Oct. 5; Gaz. vol. 219; p. 134.
- De Clairmont, Adolfo, Toledo, Ohio. Attachment for automobile-engines. No. 1,164,930; Dec. 21; Gaz. vol. 221; p. 853.
- De Clairmont, Adolfo, Toledo, Ohio. Combined primer, decarbonizer, and air-valve. No. 1,164,931; Dec. 21; Gaz. vol. 221; p. 854.
- De Coninck, Arthur, Woluwe-St.-Lambert, near Brussels, Belgium. Detachable wheel for vehicles. No. 1,141,234; June 1; Gaz. vol. 215; p. 51.
- De Cost, Albert E., Boston, Mass. Measuring-scale. No. 1,129,557; Feb. 23; Gaz. vol. 211; p. 1137.
- De Costa, John B., Kansas City, Mo. Vacuum-cleaner. No. 1,141,321; June 1; Gaz. vol. 215; p. 84.
- De Coster, Charles J., West Allis, Wis. Non-refillable bottle. No. 1,128,951; Feb. 16; Gaz. vol. 211; p. 890.
- De Cou, Jerry W., assignor to The Thomas B. Jeffery Company, Kenosha, Wis. Revolving turret for motor-cars. No. 1,140,364; May 25; Gaz. vol. 214; p. 1037.
- De Crevecoeur, Barton R. B., Banning, Cal. Wire clothes-pin. No. 1,162,577; Nov. 30; Gaz. vol. 220; p. 1639.
- De Dominicus, Antonio. (See Bachardy, Stephen J., assignor.)
- De Falco, Joseph, Vineland, N. J. Observation apparatus. No. 1,157,154; Oct. 19; Gaz. vol. 219; p. 694.
- De Falco, Joseph, Vineland, N. J. Farm and garden implement. No. 1,161,627; Nov. 23; Gaz. vol. 220; p. 1265.
- De Fernandez, Garibaldi, Philadelphia, Pa. Sanitary cigar-cap. No. 1,135,504; Apr. 13; Gaz. vol. 213; p. 546.
- De Fernandez, Garibaldi, Philadelphia, Pa. Shock-absorber. No. 1,137,123; Apr. 27; Gaz. vol. 213; p. 1199.
- De Fernandez, Garibaldi, Philadelphia, Pa. Draft-rigging. No. 1,141,696; June 1; Gaz. vol. 215; p. 216.
- De Fernandez, Garibaldi, Philadelphia, Pa. Shock-absorber. No. 1,143,753; June 22; Gaz. vol. 215; p. 1032.
- De Fernandez, Garibaldi, assignor of one-third to L. Morley, Philadelphia, Pa. Shock-absorber. No. 1,144,530; June 29; Gaz. vol. 215; p. 1331.
- De Fonblanque, Arthur F., *et al.* (See Druitt, Percy W., assignor.)
- De Fonblanque, Arthur F., *et al.* (See Druitt and Gilpin, assignors.)
- De Forest, Lee, New York, N. Y., assignor to Radio Telephone & Telegraph Company. Wireless-telephone transmitting system. No. 1,125,496; Jan. 19; Gaz. vol. 210; p. 888.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to Radio Telephone & Telegraph Company. Receiving system for electromagnetic radiations. No. 1,134,593; Apr. 6; Gaz. vol. 213; p. 186.
- De Forest, Lee, Palo Alto, Cal., assignor to Radio Telephone & Telegraph Company. Means for increasing the strength of electric currents. No. 1,134,594; Apr. 6; Gaz. vol. 213; p. 187.
- De Forge, Emery N., Winooski, Vt. Clothes-pin. No. 1,162,578; Nov. 30; Gaz. vol. 220; p. 1640.
- De Forrest, Julietta S., Andover, Mass. Metallic receptacle for hot water. No. 1,131,338; Mar. 9; Gaz. vol. 212; p. 553.
- De Frees, William, Hawthorne, Cal. Spring-tire. No. 1,156,348; Oct. 12; Gaz. vol. 219; p. 379.
- De Gaeta, Joseph, New York, N. Y. Dies for making articles from sheet metal. No. 1,161,628; Nov. 23; Gaz. vol. 220; p. 1265.
- De Gaston, Albert H., and F. McLean, assignors to Globe Iron Works, Sacramento, Cal. Internal-combustion engine. No. 1,155,709; Oct. 5; Gaz. vol. 219; p. 134.
- De Gaston, Albert H., and F. McLean, assignors to Globe Iron Works, Sacramento, Cal. Internal-combustion engine. No. 1,160,697; Nov. 16; Gaz. vol. 220; p. 893.
- De Girard, Emma M., Los Angeles, Cal. Dress-cutting square. No. 1,160,863; Nov. 16; Gaz. vol. 220; p. 950.
- De Gordy, Francis. (See Shearman and De Gordy.)
- De Graff, William E., Bridgeport, Conn. Butcher-block cleaner. No. 1,139,500; May 18; Gaz. vol. 214; p. 699.
- De Haven, Hugh, New York, N. Y. Compound binding-stay. No. 1,128,952; Feb. 16; Gaz. vol. 211; p. 891.
- De Haven, Hugh, New York, N. Y. Tying device. No. 1,149,994; Aug. 10; Gaz. vol. 217; p. 643.
- De Hay, Gedeon J., Brockton, Mass. Washing-machine. No. 1,141,235; June 1; Gaz. vol. 215; p. 51.
- De Jahn, Fredrik W., New York, N. Y. Hydrogenizing fatty matters. No. 1,131,339; Mar. 9; Gaz. vol. 212; p. 553.
- De Jahn, Fredrik W., assignor to General Chemical Company, New York, N. Y. Production of ammonia. No. 1,141,947; June 8; Gaz. vol. 215; p. 338.
- De Jahn, Fredrik W., assignor to General Chemical Company, New York, N. Y. Production of ammonia. No. 1,141,948; June 8; Gaz. vol. 215; p. 339.
- De Jahn, Fredrik W., assignor to General Chemical Company, New York, N. Y. Catalyst for the production of ammonia and making the same. No. 1,143,366; June 15; Gaz. vol. 215; p. 877.
- De Jahn, Fredrik W., assignor to General Chemical Company, New York, N. Y. Production of ammonia. No. 1,151,537; Aug. 24; Gaz. vol. 217; p. 1295.
- De Jahn, Fredrik W., assignor to General Chemical Company, New York, N. Y. Catalyst for the production of ammonia and making the same. No. 1,159,364; Nov. 9; Gaz. vol. 220; p. 364.
- De Jahn, Fredrik W., assignor to General Chemical Company, New York, N. Y. Catalyst for the production of ammonia and making the same. No. 1,159,365; Nov. 9; Gaz. vol. 220; p. 364.
- De Jeu, Adrianus M., Cleveland, Ohio. Carbon-assorting device. No. 1,123,703; Jan. 5; Gaz. vol. 210; p. 172.
- De Jonge, Christiaan, Zeeland, Mich. Silo-roof. No. 1,132,706; Mar. 23; Gaz. vol. 212; p. 1128.
- De Khotinsky, Achilles, Chicago, Ill. Electric hammer. No. 1,140,447; May 25; Gaz. vol. 214; p. 1067.
- De Konath, William F., Revere, Mass. Safety-razor. No. 1,146,769; July 13; Gaz. vol. 216; p. 647.
- De Kubber, Abraham, assignor to C. W. Rice, Grand Rapids, Mich. Extension-table. No. 1,150,813; Aug. 17; Gaz. vol. 217; p. 991.
- De La Mare, Thomas, Tooele, Utah. Conduit-mold. No. 1,144,692; June 29; Gaz. vol. 215; p. 1387.
- De la Rosa, Rosales, New York, N. Y. Measuring-funnel. No. 1,165,130; Dec. 21; Gaz. vol. 221; p. 925.
- De la Rue, Reginald W., Newmarket, England. Gramophone. No. 1,160,268; Nov. 16; Gaz. vol. 220; p. 738.
- De La Vergne Machine Co. (See Nonnenbruch, Otto H., assignor.)
- De Lage, Arthur H., Alpena, Mich. Holy-water font. No. 1,144,175; June 22; Gaz. vol. 215; p. 1182.
- De Lamater, Jules V., Vancouver, British Columbia, Canada. Hot-blast stump-burner. No. 1,153,610; Sept. 14; Gaz. vol. 218; p. 481.
- De Lan, Richie, Philadelphia, Pa. Snap-hook. No. 1,133,842; Mar. 30; Gaz. vol. 212; p. 1574.
- De Lan, Richie, Philadelphia, Pa. Twin hook. No. 1,150,581; Aug. 17; Gaz. vol. 217; p. 912.
- De Lan, Richie, Philadelphia, Pa. Davit. No. 1,163,977; Dec. 14; Gaz. vol. 221; p. 479.
- De Lancey, George W., New York, N. Y. Steam-trap. No. 1,150,503; Aug. 17; Gaz. vol. 217; p. 884.
- De Laski, Albert. (See Thropp and De Laski.)
- De Laski, Albert, Weehawken, assignor to The De Laski & Thropp Circular Woven Tire Company, Trenton, N. J. Apparatus for winding bobbins. No. 1,132,076; Mar. 16; Gaz. vol. 212; p. 850.
- De Laski & Thropp Circular Woven Tire Company, The. (See De Laski, Albert, assignor.)
- De Laski and Thropp Circular Woven Tire Company, The. (See Thropp, Peter D., assignor.)
- De Laski and Thropp Circular Woven Tire Company, The. (See Thropp and De Laski, assignors.)
- De Launty, Oliver M., assignor to C. H. Joy, Chicago, Ill. Gas-engine. No. 1,125,072; Jan. 19; Gaz. vol. 210; p. 737.
- De Laval Separator Company, The. (See Hall, Selden H., assignor.)
- De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
- De Laval Separator Company, The. (See Leitch and Hall, assignors.)
- De Laval Separator Company, The. (See Leitch and Wright, assignors.)
- De Laval Separator Company, The. (See Miller, Theodore H., assignor.)
- De Laval Separator Company, The. (See Willson, George T., assignor.)
- De Laval Steam Turbine Company. (See Hanzlik, Henry J., assignor.)
- De Laval Steam Turbine Company. (See Peterson, Per A., assignor.)
- De Lay, Frederic A., Aurora, Ill. Stop-watch. No. 1,156,893; Oct. 19; Gaz. vol. 219; p. 601.
- De Leeuw, Adolph L., Cincinnati, Ohio. Circular braider. No. 1,141,382; June 1; Gaz. vol. 215; p. 106.
- De Leeuw, Adolph L., Plainfield, N. J., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Machine-tool organization. No. 1,130,685; Mar. 2; Gaz. vol. 212; p. 295.
- De Leeuw, Adolph L., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Pump. No. 1,131,044; Mar. 9; Gaz. vol. 212; p. 452.
- De Leeuw, Adolph L., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Heavy-duty structure. No. 1,132,534; Mar. 16; Gaz. vol. 212; p. 1018.
- De Leeuw, Adolph L., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Grinder structure. No. 1,143,691; June 22; Gaz. vol. 215; p. 1012.
- De Leeuw, Adolph L., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Machine-tool control. No. 1,144,935; June 29; Gaz. vol. 215; p. 1470.
- De Leeuw, Adolph L., Cincinnati, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Over-arm. No. 1,147,615; July 20; Gaz. vol. 216; p. 964.

Alphabetical list of patentees—Continued.

- De Leeuw, Adolph L., assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. High-power pulley-drive. No. 1,165,369; Dec. 21; Gaz. vol. 221; p. 1006.
- De Leeuw, Philip J., assignor of two-thirds to K. Loewenstein, New York, N. Y. Sanitary shaving-brush. No. 1,165,394; Dec. 28; Gaz. vol. 221; p. 1054.
- De Lesco, Michael, Pittsburgh, Pa. Sanitary device for massage implements. No. 1,155,341; Oct. 5; Gaz. vol. 219; p. 6.
- De Lisle, Thomas C. (See Phillips and De Lisle.)
- De Long, Durward B. (See Obenchain and De Long.)
- De Long, Everett M. (See Baker and De Long.)
- De Long, Frank E., Philadelphia, Pa. Safety-pin. No. 1,145,003; July 6; Gaz. vol. 216; p. 8.
- De Long, Halleck J., Cleveland, Ohio. Valved flue. No. 1,165,946; Dec. 28; Gaz. vol. 221; p. 1246.
- De Long, Julius, New York, N. Y., and J. B. D'Homergue, Pittsburgh, Pa. Insulating material for building and analogous purposes. No. 1,152,798; Sept. 7; Gaz. vol. 218; p. 153.
- De Lukacevics, Charles, West Nutley, assignor to Dane Manufacturing Company, East Orange, N. J. Siphon-head. No. 1,124,927; Jan. 12; Gaz. vol. 210; p. 650.
- De Lukacevics, Charles, West Nutley, assignor to W. H. Dane, East Orange, N. J. Resilient tire. No. 1,139,260; May 11; Gaz. vol. 214; p. 579.
- De Lukacevics, Charles, Nutley, assignor to Dane Manufacturing Company, Newark, N. J. Siphon-head. No. 1,151,447; Aug. 24; Gaz. vol. 217; p. 1262.
- De Lukacevics, Charles, Brooklyn, assignor to G. W. Morgan, New York, N. Y. Speed-changing and reversing device. No. 1,129,651; Feb. 23; Gaz. vol. 211; p. 1170.
- De Marais, Victor, Chico, Cal. Clutch device. No. 1,155,220; Sept. 28; Gaz. vol. 218; p. 1096.
- De Mars, Fred, Traverse City, Mich. Securing and releasing appliance. No. 1,162,580; Nov. 30; Gaz. vol. 220; p. 1640.
- De Martino, Joseph, assignor of one-half to C. W. Gillett, New York, N. Y. Hydraulic transmission apparatus. No. 1,138,771; May 11; Gaz. vol. 214; p. 406.
- De Mattia, Barthold. (See De Mattia, Peter and B.)
- De Mattia, Peter and B., Garfield, N. J. Collapsible core for vehicle-tires. No. 1,135,774; Apr. 13; Gaz. vol. 213; p. 641.
- De Mendoza ver Mehr, J. M. (See Owens, John S., assignor.)
- De Mesquita, Julius B., London, England. Safety-razor. No. 1,135,775; Apr. 13; Gaz. vol. 213; p. 641.
- De Mesquita, Julius B., Brooklyn, N. Y. Safety-razor. No. 1,135,776; Apr. 13; Gaz. vol. 213; p. 642.
- De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Mechanical movement. No. 1,145,233; July 6; Gaz. vol. 216; p. 91.
- De Moon, John E., Spokane, Wash. Clothes-lifter. No. 1,134,825; Apr. 6; Gaz. vol. 213; p. 268.
- De Munnick, Owen M., New York, N. Y. Safety device for railway-trains. No. 1,140,580; May 25; Gaz. vol. 214; p. 1114.
- De Neergaard, Lewis E., Port Chester, assignor, by mesne assignments, to Technology Sales Co., Inc., New York, N. Y. Window-lock. No. 1,157,767; Oct. 26; Gaz. vol. 219; p. 971.
- De Nordiske Fabriker De-No-Fa Aktieselskap. (See Hausmann, Carl H., assignor.)
- De Noyelles, Judson R., Binghamton, N. Y. Hasp-lock. No. 1,145,126; July 6; Gaz. vol. 216; p. 54.
- De Palkowska, Marie, and A. Bullard, New York, N. Y. Exercising-machine. No. 1,158,003; Oct. 26; Gaz. vol. 219; p. 1053.
- De Pew, John E. (See De Pew, Thomas H., assignor.)
- De Pew, Thomas H., Canton, assignor of one-half to J. E. De Pew, Cambridge, Ohio. Piano-pedal. No. 1,143,177; June 15; Gaz. vol. 215; p. 810.
- De Pue, Grosvenor H., et al. (See Watts, Ben, assignor.)
- De Remer, William L., assignor to Spencer Otis Company, Chicago, Ill. Uncoupling device. No. 1,145,470; July 6; Gaz. vol. 216; p. 174.
- De Roode, Trimble, New York, N. Y. Pendulum-electrode for spark-plugs. No. 1,162,850; Dec. 7; Gaz. vol. 221; p. 41.
- De Rosa, Angelo, Utica, N. Y. Stove-guard. No. 1,146,613; July 13; Gaz. vol. 216; p. 594.
- De Rosa, Angelo, Utica, N. Y. Stove-guard. No. 1,146,614; July 13; Gaz. vol. 216; p. 595.
- De Rosa, Antonio, New York, N. Y. Seal. No. 1,145,354; July 6; Gaz. vol. 216; p. 131.
- De Rose, Ernest A., New York, N. Y. Napkin. No. 1,131,483; Mar. 9; Gaz. vol. 212; p. 604.
- De Size, Joseph, New York, N. Y. Thawing-out device for hydrants. No. 1,145,753; July 6; Gaz. vol. 216; p. 272.
- De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Machine for applying box-corner stays. No. 1,160,390; Nov. 16; Gaz. vol. 220; p. 780.
- De Temple, Charles A., St. Louis, Mo. Hanger-box oiler. No. 1,155,472; Oct. 5; Gaz. vol. 219; p. 52.
- De Tour, Lee, Guide Rock, Nebr. Line-holding attachment for harness-saddles. No. 1,164,173; Dec. 14; Gaz. vol. 221; p. 548.
- De Vallant, Fred C., Earlville, and R. Weaver, Plymouth, N. Y. Frictional transmission-gearing for automobiles. No. 1,147,487; July 20; Gaz. vol. 216; p. 920.
- De Vallant, Fred C., Earlville, and R. Weaver, Plymouth, N. Y. Transmission mechanism for automobiles. No. 1,147,488; July 20; Gaz. vol. 216; p. 920.
- De Vaughn, Harry E., assignor of one-half to W. A. Jones, Morgantown, W. Va. Glass-drawing apparatus. No. 1,160,864; Nov. 16; Gaz. vol. 220; p. 950.
- De Vault, Joel. (See Suprunowski, Joseph N., assignor.)
- De Vaux, Frank, assignor of one-half to R. Farnsworth, San Jose, Cal. Self-closing flush-valve. No. 1,147,219; July 20; Gaz. vol. 216; p. 826.
- De Vilbiss, Allen, assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Atomizer or the like. No. 1,140,301; May 18; Gaz. vol. 214; p. 980.
- De Vilbiss Manufacturing Company, The. (See De Vilbiss, Allen, assignor.)
- De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
- De Vito, John A., West Medford, Mass. Cleaning device. No. 1,139,352; May 11; Gaz. vol. 214; p. 609.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Bulb-attaching means. No. 1,127,202; Feb. 2; Gaz. vol. 211; p. 190.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Polishing element for rattling devices. No. 1,133,368; Mar. 30; Gaz. vol. 212; p. 1404.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Guiding attachment for sewing-machines. No. 1,129,339; Feb. 23; Gaz. vol. 211; p. 1060.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Plait-folder for sewing-machines. No. 1,135,966; Apr. 13; Gaz. vol. 213; p. 709.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,140,581; May 25; Gaz. vol. 214; p. 1115.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Tension-releasing device for sewing-machines. No. 1,146,405; July 13; Gaz. vol. 216; p. 520.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,148,446; July 27; Gaz. vol. 216; p. 1233.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Button-fastening machine. No. 1,157,621; Oct. 19; Gaz. vol. 219; p. 854.
- De Voe, Albert H., Westfield, N. J., assignor to Singer Manufacturing Company. Overseaming-machine. No. 1,161,294; Nov. 23; Gaz. vol. 220; p. 1149.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Overseaming-stitch-forming mechanism. No. 1,162,987; Dec. 7; Gaz. vol. 221; p. 87.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Throat-plate support for sewing-machines. No. 1,163,979; Dec. 14; Gaz. vol. 221; p. 480.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Power-transmitter. No. 1,163,980; Dec. 14; Gaz. vol. 221; p. 481.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Tacking and stitching machine. No. 1,164,789; Dec. 21; Gaz. vol. 221; p. 804.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Plaited fabric. No. 1,164,790; Dec. 21; Gaz. vol. 221; p. 804.
- De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Plait-folder for sewing-machines. No. 1,142,770; June 8; Gaz. vol. 215; p. 626.
- De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Chain-stitch sewing-machine. No. 1,151,513; Aug. 24; Gaz. vol. 217; p. 1286.
- De Voe, Chauncey, New York, N. Y. Sash-fastener. No. 1,141,698; June 1; Gaz. vol. 215; p. 217.
- De Vore, Charles D., assignor to J. C. Vogel, Philadelphia, Pa. License-tag support. No. 1,154,847; Sept. 28; Gaz. vol. 218; p. 968.
- De Vries, Fred W. H., near Salem, Oreg. Bit. No. 1,146,479; July 13; Gaz. vol. 216; p. 550.
- De Vries, Klaas, Utrecht, Netherlands. Voting-machine. No. 1,159,191; Nov. 2; Gaz. vol. 220; p. 272.
- De Vries, Peter J., Sheldon, Iowa. Gun-muffler. No. 1,143,814; June 22; Gaz. vol. 215; p. 1054.
- De Wein, George F., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Crusher-mantle. No. 1,154,100; Sept. 21; Gaz. vol. 218; p. 685.
- De Whalley, John J. A. (See Eastick and De Whalley.)
- De Witt, Clinton C., Shrewsbury, Mo. Signal-lamp system for cars. No. 1,161,035; Nov. 23; Gaz. vol. 220; p. 1055.
- De Witt, Eugene T. (See Lee and De Witt.)
- De Witt, George, Houston, assignor of one-third to L. R. Munger and one-third to S. I. Munger, Jr., Dallas, Tex. Transmission-gear-shifting device. No. 1,123,857; Jan. 5; Gaz. vol. 210; p. 225.
- De Witt, James E. (See Chase and Briney, assignors.)
- De Witt, James M., New York, N. Y. Sash-latch. No. 1,128,233; Feb. 9; Gaz. vol. 211; p. 589.
- De Witt, Robert W., Denver, Colo. Differential gearing. No. 1,145,295; July 6; Gaz. vol. 216; p. 111.

- De Witt, William P., Somerville, Mass. Mouthpiece for saliva-ejecting apparatus. No. 1,155,342; Oct. 5; Gaz. vol. 219; p. 6.
- De Wolf, Charles E. (See Fry, Henry E, assignor.)
- De Wolf, Roger D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding-machine. No. 1,123,256; Jan. 5; Gaz. vol. 210; p. 18.
- De Wyk, Ludolf H., Grand Rapids township, Kent county, Mich. Life-saving apparatus. No. 1,152,305; Aug. 31; Gaz. vol. 217; p. 1606.
- De Ybarrodo, Vincent C., Los Angeles, Cal. Apparatus for developing films. No. 1,143,892; June 22; Gaz. vol. 215; p. 1081.
- De Zeng, Henry L., Maple Shade, N. J. Ophthalmoscope or other optical instrument. No. 1,128,859; Feb. 16; Gaz. vol. 211; p. 855.
- De Zeng, Henry L., Maple Shade, N. J. Optical instrument. No. 1,152,152; Aug. 31; Gaz. vol. 217; p. 1555.
- De Zeng, Henry L., Maple Shade, N. J. Ophthalmological instrument. No. 1,158,187; Oct. 26; Gaz. vol. 219; p. 1119.
- De Zeng, Henry L., Maple Shade, N. J. Optical instrument. No. 1,165,232; Dec. 21; Gaz. vol. 221; p. 960.
- Deacon, Daniel A., San Diego, Cal. Drainage-trap. No. 1,128,418; Feb. 16; Gaz. vol. 211; p. 703.
- Deacon, Herbert A. (See Deacon and Jordan, assignors.)
- Deacon, Martin, and W. Gore, London, England. Filtering apparatus. No. 1,123,704; Jan. 5; Gaz. vol. 210; p. 172.
- Deacon, Martin, and W. Gore, London, England. Filtering apparatus. No. 1,130,382; Mar. 2; Gaz. vol. 212; p. 188.
- Deacon, William P., East Orange, and J. E. Jordan, Newark, assignors of one-third to H. A. Deacon, East Orange, N. J. Supporting-stand for automobiles. No. 1,144,110; June 22; Gaz. vol. 215; p. 1159.
- Deadlock Elevator Safety Company. (See Boyle, Theodore T., assignor.)
- Deady, Eugene. (See Cardin and Deady.)
- Deady, George F., and G. H. Holland, assignors of one-third to said Deady, one-third to said Holland, and one-third to W. Haas, Dayton, Ohio. Gearing. No. 1,144,324; June 22; Gaz. vol. 215; p. 1234.
- Deagan, Jefferson C., Chicago, Ill. Electrical musical instrument. No. 1,158,988; Nov. 2; Gaz. vol. 220; p. 201.
- Deagan, John C., Chicago, Ill. Piano without strings. No. 1,128,112; Feb. 9; Gaz. vol. 211; p. 549.
- Deakin, Anna S. J., *et al.* (See Cook, William J., assignor.)
- Deakin, Gerald, Berkeley, Cal. Telephone-exchange system. No. 1,142,678; June 8; Gaz. vol. 215; p. 594.
- Deakin, Gerald, Berkeley, Cal. Automatic telephone-exchange system. No. 1,164,479; Dec. 14; Gaz. vol. 221; p. 656.
- Deakin, Gerald, Oakland, Cal., assignor of one-half to McMeen & Miller, Chicago, Ill. Intercommunicating telephone system. No. 1,159,188; Nov. 2; Gaz. vol. 220; p. 271.
- Deakin, Thomas F., *et al.* (See Cook, William J., assignor.)
- Deakins, Omer, Mount Sterling, Ky. Washing-machine. No. 1,151,444; Aug. 24; Gaz. vol. 217; p. 1261.
- Deal, Charles A., *et al.* (See Brooks, Harry A., assignor.)
- Deal, Erastus C., Greensboro, N. C. Filing apparatus. No. 1,142,941; June 15; Gaz. vol. 215; p. 726.
- Deal, Joe M., Lincoln, Ill. Hook-holding bat-band. No. 1,133,542; Mar. 30; Gaz. vol. 212; p. 1466.
- Deal, Lincoln S. (See Veley and Deal.)
- Dean, Arthur M. (See Ryan, Andrew, assignor.)
- Dean, August, assignor of one-half to C. H. Dabbs, Meridian, Miss. Bending-machine. No. 1,129,650; Feb. 23; Gaz. vol. 211; p. 1169.
- Dean, Francis M., Anacortes, Wash. Matrix-retainer. No. 1,152,711; Sept. 7; Gaz. vol. 218; p. 122.
- Dean, George C., Bronxville, N. Y., assignor, by mesne assignments, to Lovell-McConnell Manufacturing Company. Mechanical horn. No. 1,148,294; July 27; Gaz. vol. 216; p. 1230.
- Dean, Henry, Onaway, Mich. Projectile. No. 1,132,455; Mar. 16; Gaz. vol. 212; p. 988.
- Dean, Henry A., Rome, Ga. Heel-sweep. No. 1,130,489; Mar. 2; Gaz. vol. 212; p. 228.
- Dean, James, New York, N. Y. Internal-combustion engine. No. 1,155,647; Oct. 5; Gaz. vol. 219; p. 112.
- Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 1,158,643; Nov. 2; Gaz. vol. 220; p. 83.
- Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 1,158,644; Nov. 2; Gaz. vol. 220; p. 83.
- Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 1,158,645; Nov. 2; Gaz. vol. 220; p. 83.
- Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 1,158,646; Nov. 2; Gaz. vol. 220; p. 84.
- Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 1,158,647; Nov. 2; Gaz. vol. 220; p. 84.
- Dean, Jess L., Detroit, Mich. Supporting means for sliding doors. No. 1,161,626; Nov. 23; Gaz. vol. 220; p. 1265.
- Dean, John H., Birmingham, Ala. Sheet-metal culvert. No. 1,140,362; May 25; Gaz. vol. 214; p. 1036.
- Dean, John R., North Girard, assignor, by mesne assignments, to The Nu Bone Corset Company of Pennsylvania, Corry, Pa. Garment-stay. No. 1,162,718; Nov. 30; Gaz. vol. 220; p. 1685.
- Dean, Marshall H., Harrisburg, Pa. Golf-ball-marking device. No. 1,135,995; Apr. 20; Gaz. vol. 213; p. 761.
- Dean, Rex, Findlay, Ohio. Boat propulsion. No. 1,123,498; Jan. 5; Gaz. vol. 210; p. 102.
- Dean, Robert L., Chicago, Ill. Steam-turbine. No. 1,162,684; Nov. 30; Gaz. vol. 220; p. 1673.
- Dean, Roy M., Chicago, Ill. Heater. No. 1,164,075; Dec. 14; Gaz. vol. 221; p. 515.
- Dean, Thomas P. A. F., Kansas City, Mo. Carpet-strip. No. 1,137,587; Apr. 27; Gaz. vol. 218; p. 1363.
- Dean, William E., Superior, Wis. Tunneling-machine. No. 1,156,277; Oct. 12; Gaz. vol. 219; p. 354.
- Dean, William H., Sioux City, Iowa. Stream-deflector. No. 1,151,445; Aug. 24; Gaz. vol. 217; p. 1261.
- Dean, William W., Elyria, Ohio; C. B. Camp, trustee. Electromagnet structure. No. 1,125,489; Jan. 19; Gaz. vol. 210; p. 885.
- Dean, William W., Elyria, Ohio; C. B. Camp, trustee. Electrical signaling. No. 1,125,490; Jan. 19; Gaz. vol. 210; p. 885.
- Dean, William W., Elyria, Ohio; C. B. Camp, trustee. Protective device. No. 1,125,491; Jan. 19; Gaz. vol. 210; p. 886.
- Dean, William W., Elyria, Ohio; C. B. Camp, trustee. Signaling device for polystation-circuits. No. 1,125,492; Jan. 19; Gaz. vol. 210; p. 886.
- Dean, William W., Elyria, Ohio; C. B. Camp, trustee. Harmonic signaling device for telephone systems. No. 1,125,493; Jan. 19; Gaz. vol. 210; p. 887.
- Dean, William W., Elyria, Ohio; C. B. Camp, trustee. Harmonic signaling device for telephone systems. No. 1,125,494; Jan. 19; Gaz. vol. 210; p. 887.
- Dean, William W., Elyria, Ohio; C. B. Camp, trustee. Harmonic signaling device for telephone systems. No. 1,125,495; Jan. 19; Gaz. vol. 210; p. 887.
- Dean, William W., Chicago, Ill. Ignition system for internal-combustion engines. No. 1,145,232; July 6; Gaz. vol. 216; p. 90.
- Dean, William W., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Dynamo-electric machine. No. 1,127,414; Feb. 9; Gaz. vol. 211; p. 301.
- Dean, William W., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Telephony. No. 1,145,861; July 6; Gaz. vol. 216; p. 310.
- Dean, William W., North Ridgeville, assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Warning-signal device. No. 1,152,008; Aug. 31; Gaz. vol. 217; p. 1503.
- Dean, William W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone-transmitter. No. 1,141,107; June 1; Gaz. vol. 215; p. 6.
- Dean, William W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Electrical signaling device. No. 1,141,945; June 8; Gaz. vol. 215; p. 338.
- Dean, William W., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Supervisory system for telephone-lines. No. 1,145,976; July 13; Gaz. vol. 216; p. 370.
- Dean, William W., assignor, by mesne assignments, to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric horn. No. 1,153,039; Sept. 7; Gaz. vol. 218; p. 240.
- Dean, William W., assignor, by mesne assignments, to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lighting fixture. No. 1,157,765; Oct. 26; Gaz. vol. 219; p. 970.
- Dean's Rag Book Company. (See Wheeldon, Arthur L., assignor.)
- Deane, Lewis J., and M. P. Wingate, Millinocket, Me. Paper-machine. No. 1,155,219; Sept. 28; Gaz. vol. 218; p. 1096.
- Dear, Luther C., Butte, Mont. Slidably-adjustable bracket. No. 1,128,419; Feb. 16; Gaz. vol. 211; p. 703.
- Dearborn, Charles A., New York, N. Y. Sewing-machine. No. 1,147,486; July 20; Gaz. vol. 216; p. 919.
- Dearborn, Charles A., New York, N. Y. Sewing-machine. No. 1,147,614; July 20; Gaz. vol. 216; p. 964.
- Dearborn, John W., Springfield, Mass. Machine for wrapping irregular articles. No. 1,126,719; Feb. 2; Gaz. vol. 211; p. 18.
- Dearborn, John W., Springfield, Mass. Package-wrapping machine. No. 1,158,186; Oct. 26; Gaz. vol. 219; p. 1119.
- Deardoff, Edward A., Davenport, Iowa. Roach-trap. No. 1,134,318; Apr. 6; Gaz. vol. 213; p. 87.
- Deardorf, John F., Kansas City, Mo. Sanitary showcase. No. 1,139,939; May 11; Gaz. vol. 214; p. 465.
- Deards, Sam, Harlow, England. Machine for making cement and the like blocks. No. 1,166,333; Dec. 28; Gaz. vol. 221; p. 1387.
- Dearing, David M., Jackson, Mich. Running-gear for motor-vehicles. No. 1,155,801; Oct. 5; Gaz. vol. 219; p. 167.
- Dearinger, Chester V., Rushville, Ind. Vending-machine. No. 1,152,009; Aug. 31; Gaz. vol. 217; p. 1503.

Alphabetical list of patentees—Continued.

- Dearth, Arthur L., Boston, Mass. Impression-holder for dental work. No. 1,140,363; May 25; Gaz. vol. 214; p. 1036.
- Deats, William, Yonkers, N. Y. Coil-taping machine. No. 1,132,765; Mar. 23; Gaz. vol. 212; p. 1150.
- Deats, William, Yonkers, N. Y. assignor to Otis Elevator Company, Jersey City, N. J. Electrical-contact governor. No. 1,148,295; July 27; Gaz. vol. 216; p. 1230.
- Debacher, Robert R., *et al.* (See Von Bültzingslöwen, Bruno, assignor.)
- Debacher, Robert "R." Hoboken, N. J. Perpetual calendar. No. 1,164,266; Dec. 14; Gaz. vol. 221; p. 579.
- Debacher, Robert "R." Hoboken, N. J. Perpetual calendar. No. 1,164,267; Dec. 14; Gaz. vol. 221; p. 580.
- Debaugé, Henry. (See Bary, Charles P., assignor.)
- Debaugé, Henry, Paris, France. Process and apparatus for purifying caoutchouc. No. 1,153,040; Sept. 7; Gaz. vol. 218; p. 240.
- Debelius, John W., *et al.* (See Nicolaus, George W., assignor.)
- Debie, André, Paris, France. Tripod-stand for panoramic cinematographic cameras. No. 1,126,720; Feb. 2; Gaz. vol. 211; p. 18.
- Decarie, Alexander S. (See Decarie, Felix L., L. A. R., and A. S.)
- Decarie, Felix L., L. A. R., and A. S., Minneapolis, Minn. Incinerator. No. 1,125,976; Jan. 26; Gaz. vol. 210; p. 1092.
- Decarie, Louis A. R. (See Decarie, Felix L., L. A. R., and A. S.)
- Decatur Brick Manufacturing Company. (See Mattes, Edward D., assignor.)
- Dececo Company, The. (See Rogers, Alfred, assignor.)
- Dech, Henry, assignor to Eureka Tire Company, Trenton, N. J. Vehicle-tire. No. 1,165,576; Dec. 28; Gaz. vol. 221; p. 1116.
- Dech, Henry, assignor to Eureka Tire Company, Trenton, N. J. Vehicle-tire. No. 1,165,577; Dec. 28; Gaz. vol. 221; p. 1117.
- Dech, Peter, assignor of one-half to H. G. Rollpiller, West Orange, N. J. Horseshoe attachment. No. 1,154,978; Sept. 28; Gaz. vol. 218; p. 1013.
- Dechamps, Heinrich, Charlottenburg, Germany, assignor to General Electric Company. Compressor. No. 1,153,030; Oct. 26; Gaz. vol. 219; p. 1064.
- Dechamps, Heinrich, Charlottenburg, Germany, assignor to General Electric Company. Fuel-pump for internal combustion engines. No. 1,165,855; Dec. 28; Gaz. vol. 221; p. 1214.
- Dechy, Abel, Paris, France. Splash-preventer for road-vehicles. No. 1,142,680; June 8; Gaz. vol. 215; p. 595.
- Decke, Wilhelm, Pankow, near Berlin, Germany. Plate-holder for photographic apparatus. No. 1,124,306; Jan. 12; Gaz. vol. 210; p. 428.
- Deckebach, Henry E., Cincinnati, Ohio. Lock-cock. No. 1,123,858; Jan. 5; Gaz. vol. 210; p. 226.
- Decker, Alexander C., Keokuk, Iowa. Currycomb. No. 1,126,721; Feb. 2; Gaz. vol. 211; p. 19.
- Decker, Alonzo G., Orangeville, assignor to The National Lettergraph Company, Baltimore, Md. Type setting and distributing machine. No. 1,141,946; June 8; Gaz. vol. 215; p. 338.
- Decker Company, The. (See Schlossberg, Emil, assignor.)
- Decker, Harry R., Houston, Tex. Hydraulic swivel. No. 1,125,977; Jan. 26; Gaz. vol. 210; p. 1092.
- Decker, Harry R., Houston, Tex. Drill. No. 1,152,151; Aug. 31; Gaz. vol. 217; p. 1554.
- Decker, Henry, Jr., Little Ferry, N. J. Reversible sign. No. 1,151,446; Aug. 24; Gaz. vol. 217; p. 1262.
- Decker, Herman, Hanover, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing derivatives of N-homologues of the norhydrohydrastinin. No. 1,156,134; Oct. 12; Gaz. vol. 219; p. 308.
- Decker, Jay J., San Diego, Cal. Sweat-band. No. 1,131,043; Mar. 9; Gaz. vol. 212; p. 452.
- Decker, Phillip J., San Francisco, Cal. Hair-pin. No. 1,135,672; Apr. 13; Gaz. vol. 213; p. 608.
- Decker, Robert A., and E. F. Ferguson, Wellsburg, N. Y. Rail-fastening device. No. 1,134,824; Apr. 6; Gaz. vol. 213; p. 268.
- Decker, Thomas O., Chicago, Ill. Amusement device. No. 1,135,099; Apr. 13; Gaz. vol. 213; p. 407.
- Decker, W. F. (See Brown, William F., assignor.)
- Decker, Walter W., Minneapolis, Minn. Sliding-door fastener. No. 1,128,420; Feb. 16; Gaz. vol. 211; p. 704.
- Dedreux, Charles C., Cleveland, Ohio. Trammel-gage for vehicle-wheels. No. 1,138,736; May 11; Gaz. vol. 214; p. 394.
- Dedrick, Henry F., Howard Lake, Minn. Belt shifter and guide for traction-engines. No. 1,146,055; July 13; Gaz. vol. 216; p. 399.
- Dedrick, Nicholas, Manitowoc, Wis. Rivet cutting and up-setting machine. No. 1,149,737; Aug. 10; Gaz. vol. 217; p. 550.
- Deeds, Edward A., Dayton, Ohio. Automobile construction. No. 1,152,712; Sept. 7; Gaz. vol. 218; p. 122.
- Deegan, Michael J., Detroit, Mich. Differential gearing. No. 1,162,754; Dec. 7; Gaz. vol. 221; p. 8.
- Deegener, Paul, and W. Berndt, Berlin, Germany. Preserving animal objects. No. 1,163,645; Dec. 14; Gaz. vol. 221; p. 363.
- Deela Penna, Louis, *et al.* (See Liberato, Nicola, assignor.)
- Deem, Miller M., assignor to American Skate & Manufacturing Company, Reading, Pa. Handle-bar. No. 1,146,692; July 13; Gaz. vol. 216; p. 621.
- Deem, Miller M., assignor to The Reading Saddle & Manufacturing Company, Reading, Pa. Cycle-saddle. No. 1,157,512; Oct. 19; Gaz. vol. 219; p. 821.
- Deemer, Frank C., Brookville, Pa. Fluid-elevator. No. 1,153,373; Sept. 14; Gaz. vol. 218; p. 395.
- Deere and Company. (See Brown, Theophilus, assignor.)
- Deere & Company. (See Dain, Joseph, assignor.)
- Deere & Company. (See Love, Robert, assignor.)
- Deere & Company. (See Macphail, James, assignor.)
- Deere & Company. (See Melvin, Charles H., assignor.)
- Deere & Company. (See Olmsted, Norman K., assignor.)
- Deere & Company. (See Paul, Wesley A., assignor.)
- Deere & Company. (See Payton, Richard, assignor.)
- Deere & Company. (See Poole, Staley D., assignor.)
- Deere & Company. (See Sklovsky, Max, assignor.)
- Deere & Company. (See Strandlund, Carl G., assignor.)
- Deere & Mansur Co. (See Dooley, Clarence H., assignor.)
- Deere & Mansur Co. (See Dooley, Harry L., assignor.)
- Deere & Mansur Co. (See White, Charles H., assignor.)
- Deere & Mansur Company. (See Carlson, Gust, assignor.)
- Deere & Mansur Company. (See White, Charles E., assignor.)
- Deery, John G. (See Schroeder, Conrad J., assignor.)
- Dees, Mark A., Lubbock, Tex. Rubberized fabric and rubber tire. No. 1,130,578; Mar. 2; Gaz. vol. 212; p. 259.
- Dees, Mark A., assignor to American Tire Company, St. Louis, Mo. Making tires. No. 1,130,964; Mar. 9; Gaz. vol. 212; p. 424.
- Dees, Mark A., assignor to The American Tire Company, St. Louis, Mo. Pneumatic tire. No. 1,144,959; June 29; Gaz. vol. 215; p. 1478.
- Deeves, Griffen H. (See Cunningham, William J., assignor.)
- Deffebach, Garlous, and C. Howard, Gas, Kans. Horse-cover. No. 1,164,480; Dec. 14; Gaz. vol. 221; p. 656.
- Defance Button Machine Co. (See Benton, Albert H., assignor.)
- Defance Lantern & Stamping Co. (See Hill, James H., assignor.)
- Defance Machine Company. (See Ocumpaugh, Edmund, assignor.)
- Defance Machine Works. (See Ensign, George A., assignor.)
- Defance Pressed Steel Company, The. (See Behringer, Grover F., assignor.)
- Defance Pressed Steel Company, The. (See Klenk, Gottlieb, assignor.)
- Defoy, Iréné, St. Roch de Quebec, Quebec, Canada. Automatic governor-valve. No. 1,152,491; Sept. 7; Gaz. vol. 218; p. 39.
- Degaille, Pierre A. (See Laird, Menteyne, and Degaille.)
- Degen, Clarence F., Oakland, Cal. Automatic automobile clutch-engaging device. No. 1,165,230; Dec. 21; Gaz. vol. 221; p. 960.
- Degener, Gustave O., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,149,187; Aug. 10; Gaz. vol. 217; p. 351.
- Degener, Gustave O., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,149,555; Aug. 10; Gaz. vol. 217; p. 483.
- Degener, Gustave O., and J. E. Davidson, assignors to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,163,644; Dec. 14; Gaz. vol. 221; p. 362.
- Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Linotype-machine. No. 1,155,996; Oct. 5; Gaz. vol. 219; p. 232.
- Degenhardt, Frank O., New York, N. Y. Puzzle. No. 1,132,244; Mar. 16; Gaz. vol. 212; p. 913.
- Degenhardt, John J., assignor of one-sixteenth to E. R. Aken, one-sixteenth to C. R. Schwartz, one-sixteenth to R. B. Aken, and one-sixteenth to B. F. Parrish, Elkhville, Ill. Safety appliance for trains. No. 1,134,999; Apr. 13; Gaz. vol. 213; p. 372.
- Degenhardt, William R., London, England. Apparatus for generating or producing gas. No. 1,128,858; Feb. 16; Gaz. vol. 211; p. 855.
- Degenhardt, William R., Kalgoorlie, and W. Jordan, Ionaume, Western Australia, Australia. Apparatus for generating or producing gas. No. 1,133,010; Mar. 23; Gaz. vol. 212; p. 1241.
- Degginger, Louis A., Covington, Ky., assignor to The No-Break Egg Carrier Company, Cincinnati, Ohio. Egg-carrier. No. 1,124,713; Jan. 12; Gaz. vol. 210; p. 574.
- Degginger, Louis A., Covington, Ky., assignor to The No-Break Egg Carrier Company, Cincinnati, Ohio. Carrier for eggs, fruits, and the like. No. 1,143,593; June 15; Gaz. vol. 215; p. 955.
- Degginger, Louis A., Covington, Ky., assignor to The No-Break Egg Carrier Company, Cincinnati, Ohio. Egg-carrier. No. 1,144,111; June 22; Gaz. vol. 215; p. 1159.
- Dehler, Edward P., St. Joseph, Mo. Legging. No. 1,132,835; Mar. 23; Gaz. vol. 212; p. 1177.

- Dehler, Lee R., Gary, Ind. Calf-weaner. No. 1,131,482; Mar. 9; Gaz. vol. 212; p. 603.
- Dehm, Hans. (See Seybold and Dehm.)
- Dehn, George J., Chicago, Ill. Floor-drain. No. 1,123,705; Jan. 5; Gaz. vol. 210; p. 173.
- Dehn, George J., Chicago, Ill. Drain. No. 1,139,647; May 18; Gaz. vol. 214; p. 751.
- Dehnell, Erich, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing soluble tanning agents. No. 1,133,108; Mar. 23; Gaz. vol. 212; p. 1275.
- Dehnst, Julius. (See Seidenschneur and Dehnst.)
- Dehullu, Frank R., Detroit, Mich. Folding table. No. 1,154,692; Sept. 28; Gaz. vol. 218; p. 917.
- Deible, Walter G., Barberton, Ohio. Accelerating device for automobiles. No. 1,132,457; Mar. 16; Gaz. vol. 212; p. 989.
- Deibler, Charles E., Lakeville, Minn. Multiple harrow. No. 1,130,579; Mar. 2; Gaz. vol. 212; p. 259.
- Deichman, Herman, Brooklyn, N. Y. Damper. No. 1,159,363; Nov. 9; Gaz. vol. 220; p. 363.
- Deike, Ulric C., Atlanta, Ga. Syringe. No. 1,127,201; Feb. 2; Gaz. vol. 211; p. 189.
- Deisbeck, Louis L., Peru, Ill. Catch-basin. No. 1,152,611; Sept. 7; Gaz. vol. 218; p. 84.
- Deise, George W., Lock Haven, Pa. Nut-lock. No. 1,160,389; Nov. 16; Gaz. vol. 220; p. 780.
- Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Rocking support for concentrating-tables. No. 1,135,965; Apr. 13; Gaz. vol. 213; p. 709.
- Deister Machine Company. (See Deister, Emil, assignor.)
- Deitemer, William F., San Francisco, Cal. Individual pneumatic-action mechanism. No. 1,138,849; May 11; Gaz. vol. 214; p. 435.
- Deitmeier, William F., San Francisco, Cal. Disappearing playing attachment for pianos. No. 1,154,846; Sept. 28; Gaz. vol. 218; p. 967.
- Deitrich, John M., Battle Creek, Mich. Aeroplane. No. 1,157,371; Oct. 19; Gaz. vol. 219; p. 772.
- Deitz, John G., Macon, Ga. Measuring rolled material. No. 1,160,051; Nov. 9; Gaz. vol. 220; p. 608.
- Dejey, Joanny A., St.-Maurice, France. Bath for producing etching-resists and preparing such baths. No. 1,149,738; Aug. 10; Gaz. vol. 217; p. 550.
- Del Casal, Toribio. (See Pombo and Del Casal.)
- Del Valle, Joseph, San Francisco, Cal. Time-meter. No. 1,128,557; Feb. 16; Gaz. vol. 211; p. 752.
- Delac Plaster Co. (See Cameron, De Lancey A., assignor.)
- Delahaye, Rene G. F., Paris, France. Inking and wiping device applicable to copper-plate-printing machines. No. 1,136,413; Apr. 20; Gaz. vol. 213; p. 909.
- Delane, Anson W., assignor of one-half to N. W. Ryan, New York, N. Y. Elastic wheel. No. 1,131,775; Mar. 16; Gaz. vol. 212; p. 741.
- Delaney, Denis J., Avoca, Wis. Hay-track for hay-fork carriers. No. 1,135,773; Apr. 13; Gaz. vol. 213; p. 641.
- Delaney, Fred H., Valier, Mont. Butter-mold. No. 1,157,766; Oct. 26; Gaz. vol. 219; p. 970.
- Delaney, Isaac L., and J. W. Patterson, Waynesburg, Pa. Sealing-machine of the hot-water type. No. 1,142,801; June 15; Gaz. vol. 215; p. 677.
- Delaney, John J., Detroit, Mich. Sash-center. No. 1,137,706; Apr. 27; Gaz. vol. 213; p. 1400.
- Delaney, John M., *et al.* (See Glover, Beverly W., assignor.)
- Delaney, Michael G., Detroit, Mich., assignor to The Northern Sales Co., Toledo, Ohio. Adjustable film-reel. No. 1,132,766; Mar. 23; Gaz. vol. 212; p. 1151.
- Delaney, Michael G., Detroit, Mich., assignor, by mesne assignments, to Northern Sales Co., Toledo, Ohio. Film-reel. No. 1,144,693; June 29; Gaz. vol. 215; p. 1387.
- Delaney, Michael G., Detroit, Mich., assignor, by mesne assignments, to Northern Sales Co., Toledo, Ohio. Regulator for film-machines. No. 1,144,694; June 29; Gaz. vol. 215; p. 1387.
- Delaney, Michael G., Detroit, Mich., assignor to The Northern Sales Co., Toledo, Ohio. Adjustable casing for film-reels. No. 1,144,695; June 29; Gaz. vol. 215; p. 1388.
- Delaney, Michael G., Detroit, Mich., assignor to The Northern Sales Co., Toledo, Ohio. Moving-picture machine. No. 1,144,696; June 29; Gaz. vol. 215; p. 1388.
- Delaney, Michael G., Detroit, Mich., assignor to The Northern Sales Co., Toledo, Ohio. Film-reel. No. 1,144,697; June 29; Gaz. vol. 215; p. 1389.
- Delaney, Thomas A., Chicago, Ill., assignor to Hills-McCanna Company. Drive for lubricators. No. 1,131,340; Mar. 9; Gaz. vol. 212; p. 554.
- Delaney, William H., Toronto, Ontario, Canada. Ash-sifter. No. 1,141,949; June 8; Gaz. vol. 215; p. 339.
- Delaney, William P., assignor of one-half to W. W. Dickson, Amsterdam, N. Y. Ink-fountain for printing-presses. No. 1,155,710; Oct. 5; Gaz. vol. 219; p. 134.
- Delano, Charles F. (See Hammond, Robert O., assignor.)
- Delany, Edward L., New York, N. Y. Valve device. No. 1,144,757; June 29; Gaz. vol. 215; p. 1410.
- Delany, Patrick B., South Orange, N. J. Means of combined telephonic and telegraphic transmission. No. 1,137,193; Apr. 27; Gaz. vol. 213; p. 1223.
- Delany, Patrick B., South Orange, N. J. Means for supervision of machine and tool work. No. 1,154,386; Sept. 21; Gaz. vol. 218; p. 784.
- Delany, Patrick B., South Orange, N. J., assignor to The Telepost Company, New York, N. Y. Telegraphy. No. 1,124,598; Jan. 12; Gaz. vol. 210; p. 533.
- Delany, Patrick B., South Orange, N. J., and Nantucket, Mass., assignor to Telepost Company, New York, N. Y. Automatic telegraphy. No. 1,141,868; June 1; Gaz. vol. 215; p. 271.
- Delany, Patrick B., South Orange, N. J., assignor to The Telepost Company, New York, N. Y. Telegraphy. No. 1,146,752; July 13; Gaz. vol. 216; p. 642.
- Delany, Patrick B., South Orange, N. J., assignor to The Telepost Company, New York, N. Y. Telegraphy. No. 1,161,929; Nov. 30; Gaz. vol. 220; p. 1417.
- Delany, Patrick B., South Orange, N. J., assignor to Delany Telegraphic Transmitter Company, New York, N. Y. Telegraphy. No. 1,149,428; Aug. 10; Gaz. vol. 217; p. 439.
- Delany, Philip S., Kansas City, Mo. Window-frame. No. 1,146,138; July 13; Gaz. vol. 216; p. 427.
- Delany Telegraphic Transmitter Company. (See Delany, Patrick B., assignor.)
- Délas, Francois. (See Van den Bergh, Jacques M., assignor.)
- Delasson, Eugene. (See Michaud and Delasson.)
- Delaunay-Belleville, Robert, assignor to Societe Anonyme des Automobiles Delaunay-Belleville, St.-Denis, France. Carbureter. No. 1,130,490; Mar. 2; Gaz. vol. 212; p. 229.
- Delaunay-Belleville, Robert, assignor to Societe Anonyme des Etablissements Delaunay-Belleville, St.-Denis, France. Construction of water-tube boilers. No. 1,132,458; Mar. 16; Gaz. vol. 212; p. 989.
- Delaunay-Belleville, Robert, assignor to The Société Anonyme des Etablissements Delaunay-Belleville, St.-Denis, Seine, France. Self-propelled torpedo. No. 1,151,165; Aug. 24; Gaz. vol. 217; p. 1169.
- Delaunay-Belleville, Robert, assignor to Societe Anonyme des Etablissements Delaunay-Belleville, St.-Denis, France. Valve. No. 1,164,268; Dec. 14; Gaz. vol. 221; p. 580.
- DeLaval Separator Company, The. (See Spross, Hubert M., assignor.)
- Delbon, Frank G., assignor to William Lane Inc., Brooklyn, N. Y. Shoe. No. 1,161,930; Nov. 30; Gaz. vol. 220; p. 1417.
- Deléry, Eugene F., New Orleans, La. Axial-flow pump and turbine. No. 1,150,747; Aug. 17; Gaz. vol. 217; p. 967.
- Delffs, Arnold, National Soldiers' Home, Tenn. Shoe-lace. No. 1,145,002; July 6; Gaz. vol. 216; p. 8.
- Delfox, James G. (See Braine and Delfox.)
- Delger, Conrad A. B., Delger township, Wells county, N. D. Antiskidding attachment for automobiles. No. 1,133,272; Mar. 30; Gaz. vol. 212; p. 1370.
- Dell, Horace E., Spring Lake, Mich. Incubator. No. 1,145,570; July 6; Gaz. vol. 216; p. 207.
- Delle, Bernhard E. (See Arter, William, assignor.)
- Delle, Bernhard E. (See Arter and Delle.)
- Delles, William J. (See Erben and Delles.)
- Dellinger, Abraham M., Lancaster, Pa. Grinding-mill. No. 1,162,579; Nov. 30; Gaz. vol. 220; p. 1640.
- Dellinger, John M., assignor to Follmer Clog & Co., Lancaster, Pa. Drilling machine. No. 1,136,319; Apr. 20; Gaz. vol. 213; p. 874.
- Dellwick-Fleischer Wassergas-Gesellschaft mit beschränkter Haftung. (See Koster, Philipp, assignor.)
- Dellwitz, Oscar, Tegel, near Berlin, Germany. Rolling-machine. No. 1,141,447; June 1; Gaz. vol. 215; p. 129.
- Delmanhorst, Herman F., Louisville, Ky. Direction-indicator. No. 1,134,595; Apr. 6; Gaz. vol. 213; p. 187.
- Delmez, Celestin, Antwerp, Belgium. Suspension device of motors on tramway or railway motor-cars. No. 1,136,779; Apr. 20; Gaz. vol. 213; p. 1037.
- Delonais, Alexander O., Medicine Hat, Alberta, Canada. Mail-box. No. 1,129,382; Feb. 23; Gaz. vol. 211; p. 1076.
- Dolphos Manufacturing Company, The. (See Leilich and Burger, assignors.)
- Delta Electric Company. (See Brownrigg, Henderson, and Case, assignors.)
- Delworth, Maurice J. (See Connelly, Arthur J., assignor.)
- Demars, John, Stevens Point, Wis. Portable fence. No. 1,131,681; Mar. 16; Gaz. vol. 212; p. 707.
- Demarest, George M., Pittsburgh, Pa. Ash-tray. No. 1,159,656; Nov. 9; Gaz. vol. 220; p. 468.
- Dement, Isaac S., Chicago, Ill. Registering and recording device for meters and the like. No. 1,165,578; Dec. 28; Gaz. vol. 221; p. 1117.
- Demerath, Joseph F. (See Naus, Theodore, assignor.)
- Demers, Joseph A., New York, N. Y. Screw-holder. No. 1,136,513; Apr. 20; Gaz. vol. 213; p. 944.
- Demers, Joseph A., St. Romuald, Quebec, Canada. Automatic train signaling, braking, and throttle cut-off. No. 1,149,251; Aug. 10; Gaz. vol. 217; p. 374.
- Demian, John, Cleveland, Ohio. Shoe construction. No. 1,151,866; Aug. 31; Gaz. vol. 217; p. 1456.
- Deming Company, The. (See Cornwall and Foltz, assignors.)

Alphabetical list of patentees—Continued.

- Deming Company, The. (See Garber, Jesse B., assignor.)
- Deming, Everett B. (See Anderson, Neils B., assignor.)
- Deming, William L., Salem, Ohio. Adjustable supporting device. No. 1,125,668; Jan. 19; Gaz. vol. 210; p. 950.
- Deming, William L., Salem, Ohio. Autographic register. No. 1,131,917; Mar. 16; Gaz. vol. 212; p. 792.
- Deming, William L., Salem, Ohio. Egg-boiler. No. 1,138,850; May 11; Gaz. vol. 214; p. 436.
- Deming, William L., Salem, Ohio. Folding wall attachment for articles of furniture. No. 1,142,404; June 8; Gaz. vol. 215; p. 502.
- Deming, William L., Salem, Ohio. Garment-supporter. No. 1,152,492; Sept. 7; Gaz. vol. 218; p. 40.
- Demirjean, Roy D., Des Moines, Iowa. Door-latch. No. 1,134,038; Mar. 30; Gaz. vol. 212; p. 1639.
- Demjén, John, Vintondale, Pa., assignor of one-half to M. Moskowitz, Jersey City, N. J. Detachable broom-handle. No. 1,149,429; Aug. 10; Gaz. vol. 217; p. 439.
- Demmer, Henry M., Detroit, Mich. Combination-tool. No. 1,139,648; May 18; Gaz. vol. 214; p. 751.
- Dempewolf, Otto. (See Bruckmann and Dempewolf.)
- Dempewolf, Otto, assignor to Bremer & Brückmann, Brunswick, Germany. Machine for handling can-heads and the like. No. 1,126,722; Feb. 2; Gaz. vol. 211; p. 19.
- Dempsey, Arthur E., Council Bluffs, Iowa. Stick-candy cutter. No. 1,162,986; Dec. 7; Gaz. vol. 221; p. 87.
- Dempsey, Charles F., Vancouver, Wash. Threshing-machine. No. 1,156,395; Oct. 12; Gaz. vol. 219; p. 398.
- Dempsey, Charles H., Hecla, Nebr. Hair-pin. No. 1,145,674; July 6; Gaz. vol. 216; p. 244.
- Dempsey, James A., New York, N. Y. Illuminating and sounding sign or indicator. No. 1,124,215; Jan. 5; Gaz. vol. 210; p. 348.
- Dempsey, James E., Seattle, Wash. Headlight control for automobiles. No. 1,138,358; May 4; Gaz. vol. 214; p. 225.
- Dempster, John T. (See Robinson and Dempster.)
- Dempster, John T., Schenectady, N. Y., assignor to General Electric Company. Graphic recording apparatus. No. 1,132,308; Mar. 16; Gaz. vol. 212; p. 936.
- Dempster, John T., Schenectady, N. Y., assignor to General Electric Company. Demand apparatus. No. 1,139,169; May 11; Gaz. vol. 214; p. 548.
- Dempster, John T., Schenectady, N. Y., assignor to General Electric Company. Electric timing device. No. 1,157,300; Oct. 19; Gaz. vol. 219; p. 746.
- Dempster, John T., Schenectady, N. Y., assignor to General Electric Company. Vibrating rectifier. No. 1,159,189; Nov. 2; Gaz. vol. 220; p. 272.
- Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp. No. 1,132,307; Mar. 16; Gaz. vol. 212; p. 936.
- Demuth, Leopold, New York, N. Y. Smoking-pipe. No. 1,153,771; Sept. 14; Gaz. vol. 218; p. 535.
- Demyen, Joseph, Philadelphia, Pa. Reeding-machine. No. 1,135,673; Apr. 13; Gaz. vol. 213; p. 608.
- Denham, James M., Guernsey, Cal. Wrench. No. 1,166,334; Dec. 28; Gaz. vol. 221; p. 1387.
- Denhard, Harry W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,143,572; June 15; Gaz. vol. 215; p. 947.
- Denhard, Harry W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Automatic cut-off for electrically-heated devices. No. 1,143,573; June 15; Gaz. vol. 215; p. 947.
- Denhard, Harry W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,145,977; July 13; Gaz. vol. 216; p. 370.
- Denhard, Harry W., San Francisco, Cal., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric resistance element. No. 1,143,574; June 15; Gaz. vol. 215; p. 947.
- Denhard, Harry W., San Francisco, Cal., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric resistance element. No. 1,143,575; June 15; Gaz. vol. 215; p. 948.
- Denhard, Harry W., San Francisco, Cal., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric resistance unit. No. 1,143,576; June 15; Gaz. vol. 215; p. 948.
- Denhard, Harry W., San Francisco, Cal., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric resistance unit. No. 1,143,577; June 15; Gaz. vol. 215; p. 949.
- Denhard, Harry W., San Francisco, Cal., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,143,578; June 15; Gaz. vol. 215; p. 949.
- Denhard, Harry W., San Francisco, Cal., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,143,579; June 15; Gaz. vol. 215; p. 949.
- Denio, Gerald H., Eaton, Colo. Ticket or card exhibitor. No. 1,156,396; Oct. 12; Gaz. vol. 219; p. 398.
- Denio, William L., Rochester, N. Y. Fire-alarm system. No. 1,159,905; Nov. 9; Gaz. vol. 220; p. 558.
- Denis, John G., New Orleans, La. Fruit or vegetable cutter. No. 1,142,681; June 8; Gaz. vol. 215; p. 595.
- Deniville, Otto E., Mount Vernon, N. Y. Sleeping-eyes for dolls. No. 1,156,761; Oct. 12; Gaz. vol. 219; p. 525.
- Denk, Leonie, *et al.*, heirs. (See Mauser, Paul.)
- Denk, Simon, Brooklyn, assignor to Economic Twist Drill Company, New York, N. Y. Rolls for simultaneously reducing and relief-ribbing twist-drills. No. 1,151,247; Aug. 24; Gaz. vol. 217; p. 1198.
- Denker, William H., San Jose, Cal. Plant-protector. No. 1,161,379; Nov. 23; Gaz. vol. 220; p. 1180.
- Denker, William H., San Jose, Cal. Plant-protector. No. 1,161,380; Nov. 23; Gaz. vol. 220; p. 1181.
- Denley, Henry B. (See Denley, Makin, and Denley.)
- Denley, William H., Birmingham, assignor of one-half to B. Makin, Sheffield, England. File or like cutting-tool. No. 1,154,578; Sept. 21; Gaz. vol. 218; p. 849.
- Denley, William H., Birmingham, and B. Makin, Sheffield, England. Machine for grinding files. No. 1,131,999; Mar. 16; Gaz. vol. 212; p. 822.
- Denley, William H., Birmingham, B. Makin, Sheffield, and H. B. Denley, Birmingham, England. Manufacture of files. No. 1,165,231; Dec. 21; Gaz. vol. 221; p. 960.
- Denman, Hugh E., Slayden, Tex. Connector for electrical conductors. No. 1,156,349; Oct. 12; Gaz. vol. 219; p. 379.
- Denne, Mark T., Rushden, England. Heel-compressing machine. No. 1,149,556; Aug. 10; Gaz. vol. 217; p. 483.
- Denne, Mark T., Rushden, England. Heel-seat-trimming machine for use in the manufacture of boots and shoes. No. 1,152,799; Sept. 7; Gaz. vol. 218; p. 153.
- Dennedy, James H., Detroit, Mich. Means for controlling the operation of air and gas compressors. No. 1,152,400; Sept. 7; Gaz. vol. 218; p. 7.
- Denneen, Francis S., assignor to The Ohio Brass Company, Mansfield, Ohio. Suspension device for trolley-wires and the like. No. 1,129,077; Feb. 23; Gaz. vol. 211; p. 969.
- Dennewitz, Jacob A., Greencastle, Ind. Lawn-mower. No. 1,148,153; July 27; Gaz. vol. 216; p. 1182.
- Denney, John W., Ray, Ariz. Level. No. 1,135,163; Apr. 13; Gaz. vol. 213; p. 429.
- Denney, Samuel L., Lincoln University, Pa. Trap-nest. No. 1,166,191; Dec. 28; Gaz. vol. 221; p. 1335.
- Denney, Walter E., and W. H. Osborn, Healy, Kans. Air-supplying attachment for carbureters. No. 1,152,080; Aug. 31; Gaz. vol. 217; p. 1529.
- Denney, William A., assignor to J. R. Little Metal Wheel Company, Quincy, Ill. Expandable tool. No. 1,126,961; Feb. 2; Gaz. vol. 211; p. 103.
- Denney, William A., Quincy, Ill., assignor to J. R. Little Metal Wheel Company. Wheel-forming machine. No. 1,164,172; Dec. 14; Gaz. vol. 221; p. 548.
- Dennin, William J. (See Cameron and Dennin.)
- Denning, James J., Gas City, Ind. Fireless leer. No. 1,132,459; Mar. 16; Gaz. vol. 212; p. 989.
- Denning, Patrick F., Cleveland, Ohio. Hat-holder. No. 1,124,714; Jan. 12; Gaz. vol. 210; p. 575.
- Dennis, Adolphus S., Lakewood, Ohio, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,150,345; Aug. 17; Gaz. vol. 217; p. 829.
- Dennis, Charles E., *et al.* (See Wise, Alvina F., assignor.)
- Dennis, Clayton G., Hastings, Nebr. Wrench for dange unions. No. 1,152,885; Sept. 7; Gaz. vol. 218; p. 186.
- Dennis, Decatur D., Corpus Christi, Tex. Animal-trap. No. 1,139,501; May 18; Gaz. vol. 214; p. 700.
- Dennis, Elbert W., Beatrice, Nebr., assignor of one-half to J. M. Anderson, Sweet Springs, Mo. Shovel-board. No. 1,138,545; May 4; Gaz. vol. 214; p. 288.
- Dennis, George M., Van Houten, N. Mex. Combination condiment-holder and cutlery utensil. No. 1,155,802; Oct. 5; Gaz. vol. 219; p. 167.
- Dennis, Hunter, assignor of one-third to U. G. Worley, Exeter, Cal. Music-leaf turner. No. 1,125,269; Jan. 19; Gaz. vol. 210; p. 809.
- Dennis, Hunter, assignor of one-third to S. Schmidt, Tracy, Cal. Writing implement. No. 1,148,661; Aug. 3; Gaz. vol. 217; p. 64.
- Dennis, John A., Birmingham, Ala. Car-ventilator. No. 1,123,859; Jan. 5; Gaz. vol. 210; p. 226.
- Dennis, John B., Ottumwa, Iowa. Attachment for check-writers. No. 1,161,629; Nov. 23; Gaz. vol. 220; p. 1265.
- Dennis, John B., Ottumwa, Iowa. Attachment for check-writers. No. 1,161,817; Nov. 23; Gaz. vol. 220; p. 1330.
- Dennis, Joseph, assignor of one-half to J. E. Ughart, Roanoke, Va. Track-sander. No. 1,160,147; Nov. 16; Gaz. vol. 220; p. 697.
- Dennis, Leonard J., Regina, Saskatchewan, Canada. Clarinet tuning-slide. No. 1,163,222; Dec. 7; Gaz. vol. 221; p. 171.
- Dennis, Matilda, Clifton Hill, Melbourne, Victoria, Australia. Suction-cleaner. No. 1,129,174; Feb. 23; Gaz. vol. 211; p. 1003.
- Dennis, Oliver C., Chicago, Ill. Electric vulcanizer. No. 1,147,847; July 27; Gaz. vol. 216; p. 1072.
- Dennis, Oliver C., Chicago, Ill. Portable electric lamp. No. 1,148,662; Aug. 3; Gaz. vol. 217; p. 64.
- Dennis, Thomas L., Prince Bay, N. Y. Boat propelling and steering device. No. 1,130,153; Mar. 2; Gaz. vol. 212; p. 108.
- Dennison, Charles R., Youngstown, Ohio. Placer-mining machine. No. 1,166,192; Dec. 28; Gaz. vol. 221; p. 1335.

Alphabetical list of patentees—Continued.

- Dennison, Leonidas R., South San Francisco, Cal. Glazing and hardening brick, terra-cotta, and other objects. No. 1,158,417; Oct. 26; Gaz. vol. 219; p. 1201.
- Dennison Manufacturing Company. (See Willis, Charles C., assignor.)
- Dennison, Robert L., Kansas City, Mo. Kiln. No. 1,141,619; June 1; Gaz. vol. 215; p. 190.
- Dennison, Wilburn N. (See Johnson and Dennison.)
- Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Sound-reproducing machine. No. 1,150,346; Aug. 17; Gaz. vol. 217; p. 830.
- Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,150,347; Aug. 17; Gaz. vol. 217; p. 830.
- Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Speedometer. No. 1,152,010; Aug. 31; Gaz. vol. 217; p. 1504.
- Dennison, Wilburn N., Merchantville, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,152,401; Sept. 7; Gaz. vol. 218; p. 7.
- Dennison, Wilburn N., Merchantville borough, N. J., assignor to Victor Talking Machine Company. Sound-box. No. 1,165,395; Dec. 28; Gaz. vol. 221; p. 1054.
- Dennison, Wilburn N., Merchantville borough, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,165,396; Dec. 28; Gaz. vol. 221; p. 1054.
- Dennison, William L., Columbus, Ohio. Bedclothes-fastener. No. 1,147,616; July 20; Gaz. vol. 216; p. 965.
- Dennison, William U., Youngstown, Ohio. Gage-glass guard. No. 1,150,504; Aug. 17; Gaz. vol. 217; p. 834.
- Denniss, Richard S. (See Werner and Denniss.)
- Dennison, Ezra G., Amsterdam, N. Y. Machine for attaching buttons on cards. No. 1,145,353; July 6; Gaz. vol. 216; p. 130.
- Denny, Clarence B., Milton, assignor to Wright & Ditson, Boston, Mass. Game appliance. No. 1,144,112; June 22; Gaz. vol. 215; p. 1160.
- Denny, R. C. (See Wade, Frank K., assignor.)
- Denny-Renton Clay & Coal Co. (See Adderson, James G., assignor.)
- Dent Hardware Company, The. (See Schrader, Thomas O., assignor.)
- Dent, Robert R. (See Campbell, George L., assignor.)
- Dent, Strother E., Little Rock, Ark. Compound tool. No. 1,140,128; May 18; Gaz. vol. 214; p. 922.
- Dentists' Supply Company, The. (See Gibson, Albert E., assignor.)
- Dentists' Supply Company, The. (See Williams, James L., assignor.)
- Denton, Charles R., Sheffield, England. Alloy. No. 1,162,226; Nov. 30; Gaz. vol. 220; p. 1520.
- Denton, John, Paterson, N. J. Flushing apparatus. No. 1,149,430; Aug. 10; Gaz. vol. 217; p. 440.
- Denton, Minnie O., Armuchee, Ga. Dish-washing machine. No. 1,123,995; Jan. 5; Gaz. vol. 210; p. 269.
- Denton, Tilford S. (See Nagle, George R., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Skaer, Arthur H., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Waugh, Daniel S., assignor.)
- Denzinger, Michael, Louisville, Ky. Faucet. No. 1,139,754; May 18; Gaz. vol. 214; p. 788.
- Deol, Louis D., New York, N. Y. Orthopedic cushion. No. 1,154,491; Sept. 21; Gaz. vol. 218; p. 818.
- Depollier, Charles L., New York, N. Y. Locking device for watch-bracelets. No. 1,131,682; Mar. 16; Gaz. vol. 212; p. 707.
- Depollier, Charles L., New York, N. Y. Watchcase, &c. No. 1,139,107; May 11; Gaz. vol. 214; p. 527.
- Depollier, Charles L., New York, N. Y. Watchcase, &c. No. 1,139,108; May 11; Gaz. vol. 214; p. 527.
- Depollier, Charles L., New York, N. Y. Watchcase, &c. No. 1,139,109; May 11; Gaz. vol. 214; p. 527.
- Depollier, Charles L., New York, N. Y. Watchcase, &c. No. 1,139,110; May 11; Gaz. vol. 214; p. 528.
- Depollier, Charles L., New York, N. Y. Watch. No. 1,139,111; May 11; Gaz. vol. 214; p. 528.
- Depollier, Charles L., Brooklyn, N. Y. Bracelet. No. 1,151,669; Aug. 31; Gaz. vol. 217; p. 1386.
- Depollier, Charles L., New York, N. Y. Securing device for expandable bracelets. No. 1,158,900; Nov. 2; Gaz. vol. 220; p. 172.
- Depollier, Charles L., assignor to Dubois Watch Case Co., Brooklyn, N. Y. Watchcase. No. 1,131,827; Mar. 16; Gaz. vol. 212; p. 761.
- Depollier, Charles L., New York, and E. C. Duncuff, Mount Vernon, assignors to Dubois Watch Case Company, Brooklyn, N. Y. Expandable watch-bracelet. (Reissue.) No. 1,39,551; July 27; Gaz. vol. 216; p. 1300.
- Depollier, Charles L., New York, and E. C. Duncuff, Mount Vernon, assignors to Dubois Watch Case Company, Brooklyn, N. Y. Expandable securing device for watch-bracelets. No. 1,151,927; Aug. 31; Gaz. vol. 217; p. 1476.
- Deppé, William P., Bayshore, N. Y. Heater for internal-combustion engines. No. 1,154,617; Sept. 28; Gaz. vol. 218; p. 891.
- Deppé, William P., Bay Shore, N. Y. Carbureter. No. 1,163,223; Dec. 7; Gaz. vol. 221; p. 171.
- Deppen, John L. (See Selleck, Theodore G., assignor.)
- Deragon, Ernest J., Worcester, Mass. Clothes-hanger. No. 1,153,677; Sept. 14; Gaz. vol. 218; p. 503.
- Derby, Willis M., Buchanan, N. Y. Gas-scrubber. No. 1,138,460; May 4; Gaz. vol. 214; p. 260.
- Derbyshire, Henry E., assignor to Chambersburg Engineering Company, Chambersburg, Pa. Stone-breaking machine. No. 1,162,685; Nov. 30; Gaz. vol. 220; p. 1673.
- Derbyshire, Ralph, Fall River, Mass. Folding foot-rest. No. 1,133,109; Mar. 23; Gaz. vol. 212; p. 1276.
- Derhammer, Joseph F., Detroit, Mich. Lubricator for steam-engines. No. 1,135,164; Apr. 13; Gaz. vol. 213; p. 429.
- Derr, Charles E., assignor to Packard Motor Car Company, Detroit, Mich. Gear. No. 1,141,043; May 25; Gaz. vol. 214; p. 1275.
- Derr, James H., Edgewood, Iowa. Animal feed-trough. No. 1,159,190; Nov. 2; Gaz. vol. 220; p. 272.
- Derr, Samuel I., Emaus, Pa. Clamping and holding means for shoe-uppers. No. 1,166,335; Dec. 28; Gaz. vol. 221; p. 1387.
- Derrick, Virgil H., Gail, Tex. Pipe-clamp. No. 1,149,557; Aug. 10; Gaz. vol. 217; p. 484.
- Derry, George M., Danvers, Mass. Door-operating mechanism. No. 1,142,405; June 8; Gaz. vol. 215; p. 502.
- Derseweh, Ernest C., and J. M. Dickens, Ridgetop, Tenn. Rail-joint. No. 1,125,978; Jan. 26; Gaz. vol. 210; p. 1093.
- Des Champs, Alphonse J., Hartford, Conn. Window-bead fastener. No. 1,142,029; June 8; Gaz. vol. 215; p. 369.
- Des Jardins, Benjamin M., West Hartford, Conn. Cryptograph. No. 1,138,851; May 11; Gaz. vol. 214; p. 436.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor to J. T. Underwood, Brooklyn, N. Y. Type-writing machine. No. 1,148,663; Aug. 3; Gaz. vol. 217; p. 65.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor, by mesne assignments, to J. T. Underwood, Brooklyn, N. Y. Computing attachment for type-writers. No. 1,163,616; Dec. 7; Gaz. vol. 221; p. 308.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor, by mesne assignments, to J. T. Underwood, Brooklyn, N. Y. Tabulating and computing attachment for type-writer machines. No. 1,165,325; Dec. 21; Gaz. vol. 221; p. 989.
- Des Moines Bridge & Iron Works. (See Crellin, Edward W., assignor.)
- Desamari, Kurt, Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Azo coloring-matter. No. 1,125,073; Jan. 19; Gaz. vol. 210; p. 737.
- Desamari, Kurt, Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Azo dyes. No. 1,125,074; Jan. 19; Gaz. vol. 210; p. 737.
- Desamari, Kurt, Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Azo dyestuff. No. 1,126,413; Jan. 26; Gaz. vol. 210; p. 1249.
- Descamps, Emmanuel A. J., assignor to Société Leduc, Heitz et Cie, Raizeux, France. Treating textiles used in aeronautics and aviation and the aeroplane-framework produced thereby. No. 1,156,894; Oct. 19; Gaz. vol. 219; p. 601.
- Deschere, Harvey, New York, N. Y. Electric illumination. No. 1,156,064; Oct. 12; Gaz. vol. 219; p. 283.
- Desenberg, Lawrence J., Los Angeles, Cal. Change-making machine. No. 1,135,165; Apr. 13; Gaz. vol. 213; p. 429.
- Desenberg, Lawrence J., Los Angeles, Cal. Game. No. 1,164,791; Dec. 21; Gaz. vol. 221; p. 805.
- Deshner, Charles, Mayberg, Pa. Car-replacing device. No. 1,164,580; Dec. 14; Gaz. vol. 221; p. 689.
- Desjardins, John, Marinette, Wis. Radiator attachment. No. 1,155,997; Oct. 5; Gaz. vol. 219; p. 232.
- Deslauriers Column Mold Company. (See Deslauriers, Philippe A. and L. P., assignors.)
- Deslauriers, Louis P. (See Deslauriers, Philippe A. and L. P.)
- Deslauriers, Louis P., Ware, Mass. Tire-lining. No. 1,141,697; June 1; Gaz. vol. 215; p. 217.
- Deslauriers, Philippe A. and L. P., assignors, by mesne assignments, to Deslauriers Column Mold Company, St. Paul, Minn. Column-mold. No. 1,143,107; June 15; Gaz. vol. 215; p. 785.
- Desmond, Delia A., Charlestown, Mass. Hat-box. No. 1,136,590; Apr. 20; Gaz. vol. 213; p. 971.
- Desmond, John, Wilmette, Ill., assignor, by mesne assignments, to Taylor Manufacturing Company, Valve. No. 1,144,758; June 29; Gaz. vol. 215; p. 1410.
- Desort, Frank, assignor of one-half to G. Eiermann, Cleveland, Ohio. Internal-combustion engine. No. 1,147,313; July 20; Gaz. vol. 216; p. 856.
- Despain, Charles A., assignor to W. B. Campbell, Spokane, Wash. Rotary pump. No. 1,125,901; Jan. 19; Gaz. vol. 210; p. 1032.
- Despain, James E., Tacoma, Wash. Automatic pipe-clamp. No. 1,149,034; Aug. 3; Gaz. vol. 217; p. 194.
- Desper, Henry A., Worcester, Mass. Elevator-service register. No. 1,148,296; July 27; Gaz. vol. 216; p. 1231.
- Desper, Thomas H., Newport News, Va. Rocker attachment for perambulators. No. 1,135,266; Apr. 13; Gaz. vol. 213; p. 462.

Alphabetical list of patentees—Continued.

- Despot, Michael, Dayton, Ohio. Collapsible hand-bag. No. 1,166,336; Dec. 28; Gaz. vol. 221; p. 1388.
- Despres, Joseph. (See Despres, Leon E. and J.)
- Despres, Leon E., Marlboro, N. H., and J. Despres, Marlboro, Mass. Seed-sower. No. 1,129,962; Mar. 2; Gaz. vol. 212; p. 44.
- Desselle, Peter J., and G. F. Philipparr, Weir, Kans. Stool. No. 1,129,175; Feb. 23; Gaz. vol. 211; p. 1003.
- Destriats, Louis P., Trenton, N. J. Impregnating and coating materials. No. 1,135,777; Apr. 13; Gaz. vol. 213; p. 642.
- Deswaines, Otto H. L., New York, N. Y. Life-boat. No. 1,125,270; Jan. 19; Gaz. vol. 210; p. 809.
- Desy, Irene, Lewistown, Mont. Attachment for disk plows. No. 1,144,176; June 22; Gaz. vol. 215; p. 1183.
- Deters, John A. L., Chicago, Ill. Plating-machine. No. 1,164,932; Dec. 21; Gaz. vol. 221; p. 854.
- Detlie, Ole H., Hudson, S. D. Saw-set. No. 1,143,754; June 22; Gaz. vol. 215; p. 1033.
- Detroit Air Pump Company. (See Blackwood, Alexander F. S., assignor.)
- Detroit Body Co. *et al.* (See Ball, Albert P., assignor.)
- Detroit Can Company. (See Ford, Ben K., assignor.)
- Detroit Can Company. (See Harbeck, Jervis R., assignor.)
- Detroit Can Company. (See Wood, Frederick P., assignor.)
- Detroit Concrete Receptacle Co. (See Urban, Joseph P., assignor.)
- Detroit Demountable Rim Co. (See Harbridge, Chester C., assignor.)
- Detroit Dental Manufacturing Company. (See Kerr, Robert M., assignor.)
- Detroit Dental Manufacturing Company. (See Strycker, Lorraine W., assignor.)
- Detroit Fuse & Manufacturing Company. (See Horton, Bryson D., assignor.)
- Detroit Lubricator Company. (See Crockett, Charles H., assignor.)
- Detroit Lubricator Company. (See Fuller, John L., assignor.)
- Detroit Lubricator Company. (See Funderburk, Otis C., assignor.)
- Detroit Lubricator Company. (See Hodges, Frederick W., assignor.)
- Detroit Lubricator Company. (See Kirby, Charles H., assignor.)
- Detroit Lubricator Company. (See Richard, Clarence A., assignor.)
- Detroit Mailing Machine Co. (See Schermack, Joseph J., assignor.)
- Detroit Motor Appliance Company. (See Miller, Cosby D., assignor.)
- Detroit Motor & Machine Company, The. (See Coffin, Howard E., assignor.)
- Detroit Oak Belting Company. (See Kolbe, August G., assignor.)
- Detroit Refrigerator Grip Company. (See Jackson, Richard, Jr., assignor.)
- Detroit Scale Manufacturing Company. (See Riedel, Charles E., assignor.)
- Detroit Steel Products Company. (See Baldwin, Arthur L., assignor.)
- Detroit Steel Products Company. (See Briggs, Delamar C., assignor.)
- Detroit Steel Products Company. (See Briggs and Davock, assignors.)
- Detroit Steel Products Company. (See Drummond, Robert S., assignor.)
- Detroit Steel Products Company. (See Wardwell, Harold F., assignor.)
- Detroit Stoker Company. (See Flitts, Edwin, assignor.)
- Detroit Stove Works. (See Davenport, Ransom W., assignor.)
- Detroit Stove Works. (See Van Wie and Davenport, assignors.)
- Detroit Vapor Stove Company, The. (See Sherman, Alvin G., assignor.)
- Detroit Wire Spring Company. (See Rickerd, Fred S., assignor.)
- Dettinger, John G., Jr., and F. H. Welker, Philadelphia, Pa. Artificial tooth. No. 1,130,892; Mar. 9; Gaz. vol. 212; p. 401.
- Detwiler, Forest V., Chicago, Ill. Refrigerator. No. 1,123,499; Jan. 5; Gaz. vol. 210; p. 103.
- Detwiler, Forest V., Chicago, Ill. Cooking apparatus. No. 1,125,075; Jan. 19; Gaz. vol. 210; p. 738.
- Detwiler, Forest V., Grand Rapids, Mich. Valve for gas-burners. No. 1,154,177; Sept. 21; Gaz. vol. 218; p. 711.
- Detwiler, William F., Tarentum, Pa. Trolley-wire support. No. 1,164,633; Dec. 21; Gaz. vol. 221; p. 749.
- Deucher, Eugene G., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for bringing up cars to tipples. No. 1,165,947; Dec. 28; Gaz. vol. 221; p. 1247.
- Deutsch-Luxemburgische Bergwerks- und Huetten-Aktiengesellschaft. (See Andres, Detlef, assignor.)
- Deutsch-Luxemburgische Bergwerks- und Huetten-Aktiengesellschaft. (See Vögler, Albert, assignor.)
- Deutsch, Nathaniel S. (See Caspers and Deutsch.)
- Deutsche Automobil-Construktions-Ges. m. b. H. *et al.* (See Hein, Hans H., assignor.)
- Deutsche Gasgluehlicht Aktiengesellschaft (Auergesellschaft). (See Keetman, Bruno, assignor.)
- Deutsche Gasgluehlicht Aktiengesellschaft (Auergesellschaft). (See Skaupy, Franz, assignor.)
- Deutsche Kugellagerfabrik G. m. b. H. (See Witte, Friedrich W., assignor.)
- Deutsche Maschinenfabrik Aktiengesellschaft. (See Tadey, Carl, assignor.)
- Deutsche Waffen- und Munitionsfabriken. (See Eitner, Berthold, assignor.)
- Deutsche Waffen- und Munitionsfabriken. (See Heinemann, August A. K., assignor.)
- Deutsche Waffen- und Munitionsfabriken. (See Kajdacsy, Karl J. von, assignor.)
- Deutscher, Walter A., Murtoa, Victoria, Australia. Harrow for attachment to seed-drills. No. 1,157,155; Oct. 19; Gaz. vol. 219; p. 604.
- Devereaux, Francis A., assignor of one-half to P. F. Devereaux, Minneapolis, Minn. Slip-trimming attachment for fair-stitching machines. No. 1,130,492; Mar. 2; Gaz. vol. 212; p. 229.
- Devereaux, James H., *et al.* (See Golly, Louis, assignor.)
- Devereaux, Patric F. (See Devereaux, Francis A., assignor.)
- Devereux, Edward R., London, England. Pneumatic tire for road-vehicles. No. 1,133,938; Mar. 30; Gaz. vol. 212; p. 1606.
- Devés, François, Liverpool, England. Change-speed gear mechanism for motor road-vehicles. No. 1,158,455; Nov. 2; Gaz. vol. 220; p. 16.
- Devik, Olaf. (See Birkeland and Devik.)
- Devine, Forrest E., Madison, Wis. Valve-grinding machine. No. 1,135,505; Apr. 13; Gaz. vol. 213; p. 546.
- Devine, Joseph P., Buffalo, N. Y. Apparatus for coating fabrics. No. 1,164,174; Dec. 14; Gaz. vol. 221; p. 548.
- Devine, Mannasses, Jackson, Cal. Dough-cutter. No. 1,147,380; July 20; Gaz. vol. 216; p. 882.
- Devine, Mannasses, Jackson, assignor of two-sixths to J. N. Cunco and one-sixth to B. Cunco, Clinton, Cal. Condiment-shaker. No. 1,161,293; Nov. 23; Gaz. vol. 220; p. 1149.
- Devine, Michael T., Pierre, S. D. Drift-pin puller. No. 1,130,071; Mar. 2; Gaz. vol. 212; p. 80.
- Devine, Robert E., Hamilton, Ontario, Canada. Machine for embossing seamless knife-handles. No. 1,154,618; Sept. 28; Gaz. vol. 218; p. 891.
- Devlin, Henry, assignor to The M. Garland Company, Bay City, Mich. Magazine-feed for furnaces. No. 1,163,978; Dec. 14; Gaz. vol. 221; p. 480.
- Devore, Daniel B., assignor of one-third to W. T. Davis and one-third to T. P. Lippitt, Washington, D. C. Multiple-combustion furnace. No. 1,149,739; Aug. 10; Gaz. vol. 217; p. 551.
- Dew, Hugh S., De Walt, and W. H. Minton, Missouri City, Tex. Pneumatic tire. No. 1,154,848; Sept. 28; Gaz. vol. 218; p. 968.
- Deweese, Benjamin F., Logan, W. Va. Power device. No. 1,159,906; Nov. 9; Gaz. vol. 220; p. 559.
- Deweese, George P., Kansas City, Mo. Folding level and plumb-rule. No. 1,143,256; June 15; Gaz. vol. 215; p. 838.
- Deweese, William H., Bloomington, Ill. Bank check or draft. No. 1,137,707; Apr. 27; Gaz. vol. 213; p. 1401.
- Dewey, Frederic L., assignor to Parlin & Orendorff Company, Canton, Ill. Gang-plow. No. 1,149,900; Aug. 10; Gaz. vol. 217; p. 609.
- Dewey, Frederic L., assignor to Parlin & Orendorff Company, Canton, Ill. Cultivator. No. 1,161,114; Nov. 23; Gaz. vol. 220; p. 1083.
- Dewey, Haywood G., East Orange, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Automatic weighing and filling machine. No. 1,125,271; Jan. 19; Gaz. vol. 210; p. 809.
- Dewey, Jesse S., assignor to Green Engineering Company, East Chicago, Ind. Grease-cup. No. 1,159,833; Nov. 9; Gaz. vol. 220; p. 533.
- Dewey, John J., Fairmont, Tenn. Building apparatus. No. 1,132,460; Mar. 16; Gaz. vol. 212; p. 990.
- Dewey, Walter E. (See Hatch, James W., assignor.)
- Dewinsky, Aaron, Bethlehem, Pa. Clothes-pin. No. 1,132,170; Mar. 16; Gaz. vol. 212; p. 884.
- Dewinsky, Aaron, Bethlehem, Pa. Hammer. No. 1,166,041; Dec. 28; Gaz. vol. 221; p. 1279.
- Dewling, Thomas G. (See Weiss and Dewling.)
- Dewrance, John, Southwark, England. Stop-valve. No. 1,137,194; Apr. 27; Gaz. vol. 213; p. 1223.
- Dewson, Edward H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Sanding device. No. 1,131,217; Mar. 9; Gaz. vol. 212; p. 511.
- Dewson, Edward H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air-strainer. No. 1,131,220; Mar. 9; Gaz. vol. 212; p. 512.
- Dewson, Edward H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-compressor. No. 1,162,851; Dec. 7; Gaz. vol. 221; p. 42.

Alphabetical list of patentees—Continued.

- Dewson, Edward H., New York, N. Y., and W. V. Turner, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Electrically-controlled brake mechanism. No. 1,131,218; Mar. 9; Gaz. vol. 212; p. 511.
- Dewson, Edward H., New York, N. Y., and W. V. Turner, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic vent-valve device. No. 1,131,219; Mar. 9; Gaz. vol. 213; p. 512.
- Dewstoe, Martin E., Birmingham, Ala. Variable-speed-gear driving mechanism. No. 1,158,990; Nov. 2; Gaz. vol. 220; p. 202.
- Dexter Company, The. (See George, William H., assignor.)
- Dexter Folder Company. (See Dexter, Talbot C., assignor.)
- Dexter Folder Company. (See Hughes and Jones, assignors.)
- Dexter Folder Company. (See Hughes and Slade, assignors.)
- Dexter Folder Company. (See Jones, Richard E., assignor.)
- Dexter Folder Company. (See Jones and Martin, assignors.)
- Dexter Folder Company. (See Lockton, Frank B., assignor.)
- Dexter Folder Company. (See Slade, Albert J., Jr., assignor.)
- Dexter, Frank, Vista, Fla. Tire. No. 1,141,620; June 1; Gaz. vol. 215; p. 190.
- Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 1,161,630; Nov. 23; Gaz. vol. 220; p. 1266.
- Dextrin Automat, Gesellschaft m. b. H. (See Wulkan, Heinrich, assignor.)
- Dey, Charles C., Victoria, La. Manual operating device for adding-machines. No. 1,133,939; Mar. 30; Gaz. vol. 212; p. 1606.
- Dey, Gilbert S. and M. Zwilling, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic objective. No. 1,160,148; Nov. 16; Gaz. vol. 220; p. 697.
- Dey, Harry E., Jersey City, N. J. Gearing. No. 1,158,456; Nov. 2; Gaz. vol. 220; p. 16.
- Dey, Harry E., Jersey City, N. J. Gearing. No. 1,158,457; Nov. 2; Gaz. vol. 220; p. 16.
- Dey, Harry E., Jersey City, N. J. Gearing. No. 1,158,458; Nov. 2; Gaz. vol. 220; p. 17.
- Dey, John B., Norfolk, Va. Potato-planter. No. 1,129,383; Feb. 23; Gaz. vol. 211; p. 1076.
- Deyl, Vaclav O., Vinor, near Prague, Austria-Hungary. Root-harvester. No. 1,149,345; Aug. 10; Gaz. vol. 217; p. 410.
- Deyl, Vaclav O., Prague, Austria-Hungary. Beet-topping machine. No. 1,165,763; Dec. 28; Gaz. vol. 221; p. 1184.
- Deyoung, Jacob A., West New York, N. J. Lever-locking device. No. 1,127,203; Feb. 2; Gaz. vol. 211; p. 190.
- Dezendorf, Richard L., Richmond Hill, N. Y. Gas-meter. No. 1,160,391; Nov. 16; Gaz. vol. 220; p. 781.
- Di Crescenzo, Antoni, *et al.* (See Liberato, Nicola, assignor.)
- Di Prinzio, Giovacchino, *et al.* (See Liberato, Nicola, assignor.)
- Di Salvio, Antonio, Washington, Pa. Barber's device. No. 1,133,942; Mar. 30; Gaz. vol. 212; p. 1607.
- Di Villar Perosa, Officine. (See Revelli, Bethel-Abiel, assignor.)
- Diaferia, Joseph, assignor to F. Cuneo, Chicago, Ill. Banana-crate. No. 1,155,406; Oct. 5; Gaz. vol. 219; p. 28.
- Dial Cash Register Company. (See Sulfer, Charles, assignor.)
- Dial, Robert E., Atherton, Ind. Transmission. No. 1,164,481; Dec. 14; Gaz. vol. 221; p. 656.
- Diamant-Brikett-Werke G. m. b. H. (See Hein, Paul, assignor.)
- Diamond Crystal Salt Company. (See Weil, Charles L., assignor.)
- Diamond Decorative Leaf Company. (See Fichtmueller, Julius A. C., assignor.)
- Diamond, Harry, Roanoke, Va. Combined cigar lighter and tip cutter. No. 1,147,220; July 20; Gaz. vol. 216; p. 826.
- Diamond, James K., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Tool for clenching belt-fasteners. No. 1,123,421; Feb. 16; Gaz. vol. 211; p. 704.
- Diamond Match Company, The. (See Carlson, Carl A., assignor.)
- Diamond Match Company, The. (See Crusier, Frederick V., assignor.)
- Diamond Match Company, The. (See Donnelly, Joseph C., assignor.)
- Diamond Match Company, The. (See Fairburn, William A., assignor.)
- Diamond Match Company, The. (See Hobart, James F., assignor.)
- Diamond Match Company, The. (See Paridon, Michael, assignor.)
- Diamond Match Company, The. (See Rudd, Henry A., assignor.)
- Diamond Match Company, The. (See Schafer, Frank, assignor.)
- Diamond Metal Stamping Co. (See Steger, William, assignor.)
- Diamond Power Specialty Company. (See Magee, John, assignor.)
- Diamond Whip Company. (See Schmidt, August J., assignor.)
- Dianovszky, John, Passaic, N. J., assignor to D. S. W. Manufacturing and Trading Corporation, New York, N. Y. Gas-turbine. No. 1,149,252; Aug. 10; Gaz. vol. 217; p. 374.
- Dibbets, Laurent G. G., The Hague, Netherlands. Roller. No. 1,128,113; Feb. 9; Gaz. vol. 211; p. 549.
- Dibbets, Laurent G. G., The Hague, Netherlands. Centrifugal basket. No. 1,160,052; Nov. 9; Gaz. vol. 220; p. 608.
- Dibbets, Laurent G. G., Caguas, Porto Rico. Centrifugal device for filtering sugar-juices. No. 1,138,608; May 4; Gaz. vol. 214; p. 309.
- Dibel, Gall P., and M. Black, Carlton, Oreg. Steel tie and fastener. No. 1,163,646; Dec. 14; Gaz. vol. 221; p. 363.
- Dibelka, James B. (See Clark, Charles J., assignor.)
- Dibert, Loyd C., San Francisco, Cal. Rotary amalgamator and concentrator. No. 1,147,314; July 20; Gaz. vol. 216; p. 856.
- Dice, George R., Ashland, Ohio. Flexible joint for dolls, &c. No. 1,155,135; Sept. 28; Gaz. vol. 218; p. 1069.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Type-holder. No. 1,137,386; Apr. 27; Gaz. vol. 213; p. 1295.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating machine. No. 1,140,883; May 25; Gaz. vol. 214; p. 1220.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding apparatus. No. 1,140,884; May 25; Gaz. vol. 214; p. 1220.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stylus. No. 1,145,571; July 6; Gaz. vol. 216; p. 208.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Preparing a stencil. No. 1,146,852; July 20; Gaz. vol. 216; p. 696.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Making stencils. No. 1,146,853; July 20; Gaz. vol. 216; p. 696.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stylus. No. 1,152,800; Sept. 7; Gaz. vol. 218; p. 154.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Rotary duplicating-machine. No. 1,159,907; Nov. 9; Gaz. vol. 220; p. 559.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Preparing stencil-sheets for typing. No. 1,161,459; Nov. 23; Gaz. vol. 220; p. 1208.
- Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Apparatus for drawing on stencils. No. 1,163,647; Dec. 14; Gaz. vol. 221; p. 363.
- Dick, Guy E., and R. M. Biegl, Chippewa Falls, Wis. Explosive-engine. No. 1,126,723; Feb. 2; Gaz. vol. 211; p. 19.
- Dick, John, assignor to Phoenix Iron Works Company, Meadville, Pa. Boiler-furnace. No. 1,137,465; Apr. 27; Gaz. vol. 213; p. 1322.
- Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Belt-guide. No. 1,134,947; Apr. 6; Gaz. vol. 213; p. 308.
- Dick, Ralph W., assignor to Louis Rastetter & Son, Fort Wayne, Ind. Vehicle wheel-rim. No. 1,157,156; Oct. 19; Gaz. vol. 219; p. 695.
- Dicke, Hugo, Berlin-Wilmersdorf, assignor to Berlin-Anhaltische Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Gas-purifying apparatus. No. 1,129,558; Feb. 23; Gaz. vol. 211; p. 1138.
- Dicke, Hugo, Berlin-Wilmersdorf, assignor to Berlin-Anhaltische Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Reducing and oxidizing apparatus for generating hydrogen from iron ore and steam. No. 1,129,559; Feb. 23; Gaz. vol. 211; p. 1139.
- Dickel, James A., and L. H. Baker, Ottumwa, Iowa. Hay-press. No. 1,143,949; June 22; Gaz. vol. 215; p. 1101.
- Dickens, Joseph M. (See Derseweh and Dickens.)
- Dickenschied, Fritz, Berlin, Germany, assignor to General Electric Company. Incandescent lamp. No. 1,149,188; Aug. 10; Gaz. vol. 217; p. 351.
- Dickerson, Albert W., Gallon, Ohio. Mail-bag catcher. No. 1,155,221; Sept. 28; Gaz. vol. 218; p. 1096.
- Dickerson, Charles I., Duchesne, Utah. Air-cushion. No. 1,147,148; July 20; Gaz. vol. 216; p. 800.
- Dickerson, Eustice E., Cleburne, Tex. Suction-fan or blower. No. 1,147,078; July 20; Gaz. vol. 216; p. 776.
- Dickerson, Eustice E., Cleburne, Tex. Cleaning cotton device. No. 1,149,253; Aug. 10; Gaz. vol. 217; p. 375.
- Dickerson, Fred G., Chicago, Ill. Can-container. No. 1,161,631; Nov. 23; Gaz. vol. 220; p. 1266.
- Dickerson, John F., Snowden, Wash. Brake-hinge. No. 1,163,324; Dec. 7; Gaz. vol. 221; p. 206.
- Dickerson, Malcolm, assignor to F. L. Luz, Newark, N. J. Vehicle-tire. No. 1,165,398; Dec. 28; Gaz. vol. 221; p. 1055.
- Dickerson, Peter. (See Shelbourne, Quisenberg, and Dickerson.)

Alphabetical list of patentees—Continued.

- Dickey, Aaron F., Somerset, Pa. Resilient transmission-gearing. No. 1,139,502; May 18; Gaz. vol. 214; p. 700.
- Dickey, Adam, Boston, Mass. Curtain-hanger. No. 1,148,083; July 27; Gaz. vol. 216; p. 1157.
- Dickey, Arthur V., Seattle, Wash. Air-gun. No. 1,146,753; July 13; Gaz. vol. 216; p. 642.
- Dickey, Arthur V., Seattle, Wash. Magazine for firearms. No. 1,148,297; July 27; Gaz. vol. 216; p. 1232.
- Dickey, Charles T., Elizabeth, assignor to Voorhees Rubber Manufacturing Company, Jersey City, N. J. Tire-shoe and constructing same. No. 1,138,092; May 4; Gaz. vol. 214; p. 131.
- Dickey, Fred L. (See Pomerantz, Isidor, assignor.)
- Dickey, William T., Northwest, Va. Concrete tie. No. 1,158,790; Nov. 2; Gaz. vol. 220; p. 134.
- Dickinson, Charles, *et al.* (See Minkler, Bruce, assignor.)
- Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Combined extraction and mixed-pressure turbine. No. 1,126,414; Jan. 26; Gaz. vol. 210; p. 1249.
- Dickinson, Ernest C., Anniston, Ala. Ladder. No. 1,141,950; June 8; Gaz. vol. 215; p. 339.
- Dickinson, Fairleigh S., Rutherford, N. J. Syringe. No. 1,130,493; Mar. 2; Gaz. vol. 212; p. 229.
- Dickinson, Fairleigh S., Rutherford, N. J. Syringe. No. 1,142,682; June 8; Gaz. vol. 215; p. 595.
- Dickinson, Fairleigh S., Rutherford, N. J. Case. No. 1,156,762; Oct. 12; Gaz. vol. 219; p. 526.
- Dickinson, Geo. W. (See Butler, Clinton C., assignor.)
- Dickinson, Herbert and R. Y., assignors of one-half to A. J. Stone, London, England, and one-half to A. H. Woods, New York, N. Y. Shooting apparatus. No. 1,126,415; Jan. 26; Gaz. vol. 210; p. 1250.
- Dickinson, Lester W., Schuyler, Nebr. Track device for motor-vehicles. No. 1,159,657; Nov. 9; Gaz. vol. 220; p. 468.
- Dickinson, Reginald Y. (See Dickinson, Herbert and R. Y.)
- Dickinson, Samuel L., Cranford, N. J. Recording attachment for pianos. No. 1,126,724; Feb. 2; Gaz. vol. 211; p. 20.
- Dickinson, Samuel L., Cranford, N. J. Apparatus for use in making music-sheets for player-pianos. No. 1,126,725; Feb. 2; Gaz. vol. 211; p. 20.
- Dickinson, Thomas D., Newcastle, Ind. Volatile-liquid burner. No. 1,147,617; July 20; Gaz. vol. 216; p. 965.
- Dickinson, Walter L. (See Lamb and Dickinson.)
- Dickinson, William M., *et al.* (See MacRae, John G., assignor.)
- Dicks, Henry A., Mandeville, La. Vessel-raising appliance. No. 1,150,255; Aug. 17; Gaz. vol. 217; p. 799.
- Dickson, Alexander, Dublin, Ireland. Manufacture of phosphate compounds for manures and fertilizers. No. 1,132,171; Mar. 16; Gaz. vol. 212; p. 885.
- Dickson, Charles, Elizabeth, N. J. Toothpick-holder. No. 1,141,781; June 1; Gaz. vol. 215; p. 244.
- Dickson, Herbert E., trustee. (See Perkins, Julius A., assignor.)
- Dickson, James T., Los Angeles, Cal. Two-cycle engine. No. 1,128,234; Feb. 9; Gaz. vol. 211; p. 590.
- Dickson, Robert, Hamilton, Ontario, Canada. Match-box. No. 1,137,743; May 4; Gaz. vol. 214; p. 8.
- Dickson, William W. (See Delaney, William P., assignor.)
- Didier, Joseph L., Salisbury, N. C. Drilling and boring machine. No. 1,142,802; June 15; Gaz. vol. 215; p. 677.
- Die Sinking and Machine Co. (See Barkwill, William H., assignor.)
- Diebel, William, Philadelphia, Pa. Tube-coiling apparatus. No. 1,124,874; Jan. 12; Gaz. vol. 210; p. 632.
- Dieckmann, Adolf, Cincinnati, Ohio. Producing sheet-metal elbows. No. 1,157,852; Oct. 26; Gaz. vol. 219; p. 1000.
- Dieckmann, Armin J., Saginaw, Mich. Snap-button. No. 1,147,618; July 20; Gaz. vol. 216; p. 965.
- Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Factory, Chicago, Ill. Slide-rule. No. 1,154,619; Sept. 28; Gaz. vol. 218; p. 892.
- Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Factory, Chicago, Ill. Open-face runner for slide-rules. No. 1,158,459; Nov. 2; Gaz. vol. 220; p. 17.
- Dieckmann, Gustav, San Francisco, Cal. Foldable drying-cabinet. No. 1,135,267; Apr. 13; Gaz. vol. 213; p. 463.
- Dieckmann, Gustav, San Francisco, Cal. Folding box. No. 1,156,673; Oct. 12; Gaz. vol. 219; p. 496.
- Diederichs, Carl A., Pittsburgh, Pa. Christmas-tree holder. No. 1,160,698; Nov. 16; Gaz. vol. 220; p. 894.
- Diefenbach, George, and H. Waldorf, Granite City, Ill. Plate-rolling-mill attachment. No. 1,135,996; Apr. 20; Gaz. vol. 213; p. 761.
- Diefenderfer, Victor J., South Bethlehem, assignor to Victor Engineering Company, Limited, Allentown, Pa. Speed-governor. No. 1,142,803; June 15; Gaz. vol. 215; p. 678.
- Diefendorf, Frederick G., Erie, Pa. Pipe-screwing device. No. 1,150,178; Aug. 17; Gaz. vol. 217; p. 771.
- Dieges, Charles J., New York, N. Y. Card-case. No. 1,151,248; Aug. 24; Gaz. vol. 217; p. 1198.
- Diehl, Albert C., Camden, N. J., assignor to Victor Talking Machine Company, Sound-box. No. 1,156,217; Oct. 12; Gaz. vol. 219; p. 334.
- Diehl, Ambrose N., Duquesne, Pa. Hot-blast stove. No. 1,141,108; June 1; Gaz. vol. 215; p. 6.
- Diehl, Ambrose N., and W. Ahlen, Duquesne, Pa. Explosive-gas determinator. No. 1,150,505; Aug. 17; Gaz. vol. 217; p. 884.
- Diehl, Jacob, Glenbeulah, Wis. Universal air-blast. No. 1,141,236; June 1; Gaz. vol. 215; p. 51.
- Diehl Manufacturing Company. (See Zabriskie, Henry L., assignor.)
- Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine loop-taker. No. 1,125,669; Jan. 19; Gaz. vol. 210; p. 951.
- Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine loop-taker. No. 1,146,406; July 13; Gaz. vol. 216; p. 520.
- Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine loop-taker. No. 1,149,504; Aug. 10; Gaz. vol. 217; p. 465.
- Diehl, Philip, and H. Eichhorn, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Multiple-needle sewing-machine. No. 1,142,082; June 8; Gaz. vol. 215; p. 387.
- Diehl, Robert N., Oilfields, Cal. Exercising apparatus. No. 1,138,196; May 4; Gaz. vol. 214; p. 166.
- Diehl, Rudolph, and H. Müller, New York, N. Y. Transmission. No. 1,158,791; Nov. 2; Gaz. vol. 220; p. 134.
- Diehl, Walter R., Pittsburgh, Pa. Draft-rigging for railway rolling-stock. No. 1,155,896; Oct. 5; Gaz. vol. 219; p. 199.
- Diehm, Charles A. (See Slattery and Diehm.)
- Diehm, John L., Philadelphia, Pa. Fuel-holder. No. 1,133,940; Mar. 30; Gaz. vol. 212; p. 1607.
- Diener, Charles, New York, N. Y. Self-locking hinge. No. 1,140,129; May 18; Gaz. vol. 214; p. 922.
- Diener, Charles, New York, N. Y. Self-locking hinge. No. 1,141,782; June 1; Gaz. vol. 215; p. 244.
- Diener, Charles H., Philadelphia, Pa. Carbureter. No. 1,156,836; Oct. 12; Gaz. vol. 219; p. 551.
- Dier, Frederick F. (See Ogilvie and Dier.)
- Dierdorff, Henry B., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Safety device for power transmission. No. 1,156,397; Oct. 12; Gaz. vol. 219; p. 399.
- Dierdorff, Henry B., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining-machine. No. 1,162,142; Nov. 30; Gaz. vol. 220; p. 1492.
- Dierdorff, Joseph F., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Disintegrator. No. 1,126,416; Jan. 26; Gaz. vol. 210; p. 1250.
- Dierks, Louis E., and H. B. Sauerman, Chicago, Ill. Gravel-washing apparatus. No. 1,165,077; Dec. 21; Gaz. vol. 221; p. 904.
- Dies, Charles A., Chicago, Ill. Wrench. No. 1,155,136; Sept. 28; Gaz. vol. 218; p. 1069.
- Dies, Charles A., Chicago, assignor to C. Mark, Lake Forest, Ill. Pipe-coupling. No. 1,137,955; May 4; Gaz. vol. 214; p. 82.
- Dies, Charles A., assignor to C. Mark, Evanston, Ill. Milling-cutter. No. 1,140,130; May 18; Gaz. vol. 214; p. 923.
- Diescher, Samuel E., Pittsburgh, Pa. Manufacture of seamless tubes. No. 1,139,957; May 18; Gaz. vol. 214; p. 859.
- Diescher, Samuel E., Pittsburgh, Pa. Machine for cleaning and polishing tin sheets. No. 1,155,711; Oct. 5; Gaz. vol. 219; p. 134.
- Diesel, Lambert, Chicago, Ill. Vehicle-wheel. No. 1,136,214; Apr. 20; Gaz. vol. 213; p. 836.
- Dlessler, Gottfried, Zurich, Switzerland. Making silk feltable. No. 1,156,983; Oct. 19; Gaz. vol. 219; p. 634.
- Diestelkamp, Frederick A., Bland, Mo. Automatic magazine-firearm. No. 1,126,726; Feb. 2; Gaz. vol. 211; p. 21.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Speed control for automobile torpedoes. No. 1,131,341; Mar. 9; Gaz. vol. 212; p. 554.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Reducing valves for automobile torpedoes. No. 1,136,660; Apr. 20; Gaz. vol. 213; p. 996.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Diving-gear for torpedoes. No. 1,145,355; July 6; Gaz. vol. 216; p. 131.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Check-valve for automobile torpedoes. No. 1,146,557; July 13; Gaz. vol. 216; p. 575.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscopic device. No. 1,148,154; July 27; Gaz. vol. 216; p. 1182.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Automobile torpedo. No. 1,148,155; July 27; Gaz. vol. 216; p. 1182.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Torpedo-launching tube. No. 1,149,505; Aug. 10; Gaz. vol. 217; p. 465.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Torpedo-shell. No. 1,151,763; Aug. 31; Gaz. vol. 217; p. 1418.

Alphabetical list of patentees—Continued.

- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Depth-recorder for torpedoes. No. 1,152,493; Sept. 7; Gaz. vol. 218; p. 40.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscopic steering mechanism. No. 1,153,678; Sept. 14; Gaz. vol. 218; p. 503.
- Dieter, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Automobile torpedo. No. 1,125,979; Jan. 26; Gaz. vol. 210; p. 1093.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Torpedo-testing apparatus. No. 1,134,039; Mar. 30; Gaz. vol. 212; p. 1639.
- Dieterich, Conrad A. (See Hagemann, Otto C., assignor.)
- Dieterich, Edward A., New York, N. Y. Auxiliary actuating device for the brake mechanism of an automobile. No. 1,131,484; Mar. 9; Gaz. vol. 212; p. 604.
- Dieterich, Edward A., New York, N. Y. Auxiliary actuating device for the brake mechanism of an automobile. No. 1,131,485; Mar. 9; Gaz. vol. 212; p. 604.
- Dieterich, Hermann. (See Ach, Rothmann, and Dieterich.)
- Dieterich, Karl G., New York, N. Y. Bowling-alley. No. 1,155,329; Sept. 28; Gaz. vol. 218; p. 1132.
- Dietl, Hubert G., Vienna, Austria-Hungary, assignor to Western Electric Company, New York, N. Y. Selector-switch. No. 1,126,727; Feb. 2; Gaz. vol. 211; p. 21.
- Dietl, Hubert G., Vienna, Austria-Hungary, assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Automatic telephone-exchange system. No. 1,147,928; July 27; Gaz. vol. 216; p. 1100.
- Dietrich, Charles W., Chicago, Ill. Suspension-clamp. No. 1,134,519; Apr. 6; Gaz. vol. 213; p. 159.
- Dietrich, Gustave. (See Painton, Joseph G., assignor.)
- Dietrich, Oliver E. (See Ringle, Henry E., assignor.)
- Dietrich, Richard R., St. Louis, Mo. Stovepipe-forming machine. No. 1,138,639; May 11; Gaz. vol. 214; p. 358.
- Dietsch, Charles G., Spokane, Wash. Sprinkling-nozzle. No. 1,151,089; Aug. 24; Gaz. vol. 217; p. 1142.
- Dietz, Bernard R., Canterbury, England. Military signaling apparatus. No. 1,135,778; Apr. 13; Gaz. vol. 213; p. 642.
- Dietz, Charles. (See Hallstone and Dietz.)
- Dietz, Charles, assignor of one-half to O. Krause, Chicago, Ill. Wagon. No. 1,128,299; Feb. 16; Gaz. vol. 211; p. 664.
- Dietz, Charles, Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,142,501; June 8; Gaz. vol. 215; p. 536.
- Dietz, Charles H., St. Louis, Mo. Clinical thermometer. No. 1,152,153; Aug. 31; Gaz. vol. 217; p. 1555.
- Dietz, George, E. J. Lafferty, and G. J. Bessinger, Newark, N. J. Lighting attachment. No. 1,131,221; Mar. 9; Gaz. vol. 212; p. 512.
- Dietz, Gustav, Yonkers, assignor to Multi Speed Shutter Company, New York, N. Y. Reflecting-camera. No. 1,133,369; Mar. 30; Gaz. vol. 212; p. 1404.
- Dietz, Paul, Brooklyn, assignor to New Ideas Manufacturing Company, Inc., New York, N. Y. Camera for taking pictures. No. 1,150,814; Aug. 17; Gaz. vol. 217; p. 991.
- Dietze, Charles H. (See Szlányi, William, assignor.)
- Dierendorf, William B., Sprakers, N. Y. Dirigible lamp for automobiles. No. 1,151,166; Aug. 24; Gaz. vol. 217; p. 1169.
- Difany, Henry, Newark, N. J. Hand-bag fastener. No. 1,143,514; June 15; Gaz. vol. 215; p. 926.
- Diffenbacher, James, Burrows, Pa. Glass-machine. No. 1,149,117; Aug. 3; Gaz. vol. 217; p. 221.
- Diffenderfer, Jonah G., Cincinnati, Ohio. Detachable sign. No. 1,124,398; Jan. 12; Gaz. vol. 210; p. 460.
- Differential Clock Co. (See Busenbenz, Jacob J., assignor.)
- Differential Clutch Company, The. (See Lasley, Dana M., assignor.)
- Dight, William M., Grove City, Pa. Folding shipping-crate. No. 1,132,000; Mar. 16; Gaz. vol. 212; p. 822.
- Dight, William M., Grove City, Pa. Lock. No. 1,146,407; July 13; Gaz. vol. 216; p. 521.
- Dilger, Theodore. (See Musser and Dilger.)
- Dill, Ab B., Lakin, Kans. Wire-stretcher. No. 1,134,729; Apr. 6; Gaz. vol. 213; p. 236.
- Dillabough, Dexter C., Lyle, Wash. Gate-latch. No. 1,126,728; Feb. 2; Gaz. vol. 211; p. 22.
- Dillard, George L., and W. Johns, Morillon, N. Mex. Tire-protector. No. 1,153,042; Sept. 7; Gaz. vol. 218; p. 241.
- Diller Manufacturing Company, The. (See Kibele, Hector, assignor.)
- Dilley, Arzeno J., Grand Rapids, assignor of one-half to F. W. Green, Ionia, Mich. Spring. No. 1,137,845; May 4; Gaz. vol. 214; p. 43.
- Dillard, Herbert C., East Bangor, Pa. Side loader for concrete-mixing machines. No. 1,133,941; Mar. 30; Gaz. vol. 212; p. 1607.
- Dillinger, Ross L., Decatur, Ill. Folding stock chute-loader and hog-holder. No. 1,139,755; May 18; Gaz. vol. 214; p. 788.
- Dillman, Daniel A., Oregon City, Oreg. Pulp-feeder for paper-making machines. No. 1,166,042; Dec. 28; Gaz. vol. 221; p. 1279.
- Dillon, Albert, Aitch, Ohio. Nut-lock. No. 1,134,596; Apr. 6; Gaz. vol. 213; p. 187.
- Dillon, Charles A., assignor to The United Electric Company, Canton, Ohio. Key-plug. No. 1,137,466; Apr. 27; Gaz. vol. 213; p. 1322.
- Dillon, Frank M., Durham, N. C. Margin-adjusting attachment for type-writers. No. 1,130,804; Mar. 9; Gaz. vol. 212; p. 370.
- Dillon, Harry E., Olean, N. Y. Guard-rail. No. 1,132,077; Mar. 16; Gaz. vol. 212; p. 850.
- Dillon, James F. (See Murray and Dillon.)
- Dillon, John, *et al.* (See Moffitt, Allison, assignor.)
- Dillon, John E., *et al.* (See Spiegel, Joseph F., assignor.)
- Dillon, John M., Sterling, Ill. Fence-post. No. 1,142,406; June 8; Gaz. vol. 213; p. 503.
- Dillon, W. F. (See Thomasson, Henry A. W., assignor.)
- Dilts, Henry L., Long Island City, assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 1,138,640; May 11; Gaz. vol. 214; p. 359.
- Dilworth, John C., Pittsburgh, Pa., and C. S. Weeks, Brooklyn, N. Y., assignors to Dilworth, Porter & Co., Ltd., Pittsburgh, Pa. Automatic spike-machine. No. 1,150,665; Aug. 17; Gaz. vol. 217; p. 940.
- Dilworth, Porter & Co. (See Dilworth and Weeks, assignors.)
- Dilworth, Porter & Company. (See Morrison, Andrew, assignor.)
- Dimontberg, David, Chicago, Ill. Photographic apparatus. No. 1,156,984; Oct. 19; Gaz. vol. 219; p. 634.
- Dimm, Chandos R., Muncy, Pa. Grain-scourer. No. 1,148,298; July 27; Gaz. vol. 216; p. 1232.
- Dimm, Isaac N., Port Royal, Pa. Rail-splice. No. 1,132,461; Mar. 16; Gaz. vol. 212; p. 990.
- Dimond, Samuel S. (See Somers and Dimond.)
- Diners, Julius, New York, N. Y. Automatic valve. No. 1,138,093; May 4; Gaz. vol. 214; p. 131.
- Dingens, Carl L., assignor to The Bigelow Binder Company, New York, N. Y. Binder. No. 1,161,632; Nov. 23; Gaz. vol. 220; p. 1267.
- Dingle, Stephen. (See Landemare and Dingle.)
- Dingman, Allen H., assignor of one-half to H. Kappeler, Allison Park, Pa. Spark-plug. No. 1,130,404; Mar. 2; Gaz. vol. 212; p. 230.
- Dingman, Charles F., Jersey City, N. J. Railway signaling system. No. 1,143,755; June 22; Gaz. vol. 215; p. 1033.
- Dings Electro-Magnetic Separator Co. (See Dings and Manegold, assignors.)
- Dings, Myron, and R. A. Manegold, assignors to Dings Electro-Magnetic Separator Co., Milwaukee, Wis. Magnetic separator. No. 1,136,215; Apr. 20; Gaz. vol. 213; p. 837.
- Dingwell, Ruel, Cambridgeport, assignor of one-third to J. A. Cromwell and one-third to F. W. Jones, Boston, Mass. Fishing-seine. No. 1,152,081; Aug. 31; Gaz. vol. 217; p. 1530.
- Dinkel, Andrew J. (See Frede and Dinkel.)
- Dinkelspiel, Lawrence, New York, N. Y. Reinforced scalloped edging for embroidery. No. 1,152,713; Sept. 7; Gaz. vol. 218; p. 123.
- Dinke, Alva C., Pittsburgh, Pa. Making steel. No. 1,162,755; Dec. 7; Gaz. vol. 221; p. 8.
- Dinklage, August J., East Orange, N. J. Device for preventing creeping of rails. No. 1,153,541; Sept. 14; Gaz. vol. 218; p. 457.
- Dinn, James F., Port Washington, assignor to Hall-Borchert Dress Form Company, New York, N. Y. Adjustable dress-form. No. 1,137,744; May 4; Gaz. vol. 214; p. 8.
- Dinsmoor, John L., New York, N. Y. Arc-lamp. No. 1,143,108; June 15; Gaz. vol. 215; p. 785.
- Dionne, Joseph, Fall River, Mass. Ironing-board. No. 1,135,674; Apr. 13; Gaz. vol. 213; p. 608.
- Dipple, Charles, Jr. (See Smith and Dipple.)
- Direct Drive Gear Company. (See McBrair, Henry C., assignor.)
- Dirlam, Howard K., and S. A. Pritschau, assignors to The Baxter Stove Company, Mansfield, Ohio. Combined stove and fireless cooker. No. 1,161,633; Nov. 23; Gaz. vol. 220; p. 1267.
- Disbrow, Levi A., Owatonna, Minn. Driving means for churns. No. 1,147,006; July 20; Gaz. vol. 216; p. 752.
- Disbrow, Reuben B., and C. M. Carlson, Owatonna, Minn.; said Carlson assignor to said Disbrow. Churn-driving mechanism. No. 1,146,480; July 13; Gaz. vol. 216; p. 550.
- Disco Electric Starter Company, The. (See Guy, Frederick M., assignor.)
- Dishmaker, Anton, Kewaunee, Wis. Collapsible box. No. 1,124,875; Jan. 12; Gaz. vol. 210; p. 633.
- Disimoni, Giuseppe, *et al.* (See Mecco, Canio, assignor.)
- Dismer, Henry L., and N. Mirfield, Davenport, Iowa. Mattress-sewing machine. No. 1,166,193; Dec. 28; Gaz. vol. 221; p. 1336.
- Dismore, Angelo V., county of Buckingham, England. Treatment of iron. No. 1,141,530; June 1; Gaz. vol. 215; p. 158.
- Dispatch Conveyor Company. (See Fullerton, Frederick W., assignor.)
- Diss, Albert B., Newark, N. J., assignor to Universal Caster & Foundry Company, New York, N. Y. Socket for casters-pintles. No. 1,125,272; Jan. 19; Gaz. vol. 210; p. 810.

Alphabetical list of patentees—Continued.

- Diss, Albert B., Newark, N. J., assignor to Universal Caster & Foundry Company, New York, N. Y. Caster for pianos and other uses. No. 1,160,583; Nov. 16; Gaz. vol. 220; p. 849.
- Diss, Albert B., Newark, N. J., assignor to Universal Caster & Foundry Company, New York, N. Y. Caster for pianos and other uses. No. 1,160,584; Nov. 16; Gaz. vol. 220; p. 850.
- Ditchfield, Frank. (See Atwood and Ditchfield.)
- Ditchfield, Frank, Montreal, Quebec, Canada. Bolster. No. 1,123,257; Jan. 5; Gaz. vol. 210; p. 19.
- Ditchfield, Frank, Montreal, Quebec, Canada. Arch-bar truck. No. 1,126,729; Feb. 2; Gaz. vol. 211; p. 22.
- Ditchfield, Frank, Montreal, Quebec, Canada. Bolster. No. 1,143,615; June 22; Gaz. vol. 215; p. 987.
- Ditesheim, Isidore, Chaux-de-Fonds, Switzerland, assignor to Fabrique Movado L. A. J. Ditesheim & frère. Brace-let-watch. No. 1,142,554; June 8; Gaz. vol. 215; p. 553.
- Disler, Peter R., Jeffersonville, Ind. Steam-engine. No. 1,165,579; Dec. 28; Gaz. vol. 221; p. 1117.
- Ditson, Jesse, assignor to The J. Geo. Leyner Engineering Works Company, Littleton, Colo. Oil-burner. No. 1,154,101; Sept. 21; Gaz. vol. 218; p. 685.
- Dittman, Samuel E., New York, N. Y. Printing-plate. No. 1,128,665; Feb. 16; Gaz. vol. 211; p. 789.
- Dittman, Walter A., Dryden, Mich. Steering-gear for automobiles. No. 1,162,988; Dec. 7; Gaz. vol. 221; p. 88.
- Dittmar, Allen A., El Mora, N. J. Pump. No. 1,147,221; July 20; Gaz. vol. 216; p. 827.
- Dittmar, William W., Williamsport, Pa. Forming a pew. No. 1,140,964; May 25; Gaz. vol. 214; p. 1249.
- Dittmar, William W., Williamsport, Pa. Pew. No. 1,149,559; Aug. 10; Gaz. vol. 217; p. 484.
- Dittrich, Joseph C., New York, N. Y. Line-up register-gage. No. 1,153,896; Sept. 21; Gaz. vol. 218; p. 615.
- Ditty, Samuel C. (See Jensen, Carl M., assignor.)
- Dixey, Marie U., New York, N. Y. Veil. No. 1,141,531; June 1; Gaz. vol. 215; p. 159.
- Dixie Cotton Felt Mattress Company. (See Weinberg, Ike J., assignor.)
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Multiple-brush selector. No. 1,123,706; Jan. 5; Gaz. vol. 210; p. 173.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Key-controlled registering apparatus. No. 1,125,273; Jan. 19; Gaz. vol. 210; p. 810.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Making terminal banks. No. 1,127,741; Feb. 9; Gaz. vol. 211; p. 417.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Printing-telegraph receiver. No. 1,128,422; Feb. 16; Gaz. vol. 211; p. 704.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Call-registering mechanism. No. 1,143,367; June 15; Gaz. vol. 215; p. 877.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Switch-selector. No. 1,143,368; June 15; Gaz. vol. 215; p. 877.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Paper-feed-controlling system. No. 1,161,850; Nov. 30; Gaz. vol. 220; p. 1388.
- Dixon, Amos F., Newark, and B. F. Merritt, East Orange, N. J., assignors to Western Electric Company, New York, N. Y. Spring-motor. No. 1,158,991; Nov. 2; Gaz. vol. 220; p. 202.
- Dixon, Ezra, Bristol, R. I. Top-roll-saddle lubricator. No. 1,145,572; July 6; Gaz. vol. 216; p. 208.
- Dixon, Frederick W. (See Vanham, Lupton, assignor.)
- Dixon, George E., London, England. Nostril-dilating device. No. 1,135,675; Apr. 13; Gaz. vol. 213; p. 608.
- Dixon, George L., Driscoll, N. D. Wind-wheel pump-rod connection. No. 1,156,065; Oct. 12; Gaz. vol. 219; p. 283.
- Dixon, Henry C., Oil City, La. Electric whip. No. 1,140,365; May 25; Gaz. vol. 214; p. 1037.
- Dixon, Henry P., Wallingford, Pa. Golf-club. No. 1,131,486; Mar. 9; Gaz. vol. 212; p. 605.
- Dixon, James W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can-head-feeding machine. No. 1,154,237; Sept. 21; Gaz. vol. 218; p. 731.
- Dixon, James W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Automatic feeding device for can-heads or other disks. No. 1,161,931; Nov. 30; Gaz. vol. 220; p. 1418.
- Dixon, John J., St. Paul, Minn. Horse-check. No. 1,131,601; Mar. 9; Gaz. vol. 212; p. 644.
- Dixon, Randall M., Stockton, Cal. Automatic-releasing cable-grip. No. 1,138,197; May 4; Gaz. vol. 214; p. 167.
- Dixon, Robert M., East Orange, N. J. Self-contained projecting-lantern. No. 1,139,852; May 18; Gaz. vol. 214; p. 823.
- Dixon, Robert M., East Orange, N. J., assignor, by mesne assignments, to Standard Heat and Ventilation Company, Inc., New York, N. Y. Direct steam-heating system for railway-cars. No. 1,149,740; Aug. 10; Gaz. vol. 217; p. 551.
- Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Shaft-drive. No. 1,164,933; Dec. 21; Gaz. vol. 221; p. 854.
- Dixon, Thomas W., Chicago, Ill. Vapor-generator. No. 1,144,820; June 29; Gaz. vol. 215; p. 1432.
- Dixon, Thomas W., Chicago, Ill. Fuel-vaporizer. No. 1,148,892; Aug. 3; Gaz. vol. 217; p. 144.
- Dixon, Thomas W., assignor of one-half to W. H. White, St. Louis, Mo. Ventilated fixture. No. 1,149,560; Aug. 10; Gaz. vol. 217; p. 484.
- Dixon, William. (See Blose, Irvin R., assignor.)
- Dixon, William. (See Gaudron, Edward N., assignor.)
- Dizmacsek, Julius, Duquesne, Pa. Padlock. No. 1,126,417; Jan. 26; Gaz. vol. 210; p. 1251.
- Djandieri, Prince E., and S. Shapow, Petrograd, Russia. Grain-drying apparatus. No. 1,160,053; Nov. 9; Gaz. vol. 220; p. 609.
- Doan, Harry C. (See Doan, Walter J. and H. C.)
- Doan, Walter J. and H. C., Richmond, Ind. Automatic gravity-valve. No. 1,156,837; Oct. 12; Gaz. vol. 219; p. 552.
- Doane, John C., East Long Meadow, Mass., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,157,683; Oct. 26; Gaz. vol. 219; p. 943.
- Doak, Clifton, Snyder, Tex. Cultivator attachment. No. 1,164,792; Dec. 21; Gaz. vol. 221; p. 805.
- Dobbel, Frederick W., Sonoma, Cal. Egg-tester. No. 1,144,466; June 29; Gaz. vol. 215; p. 1310.
- Dobbins, Timothy C., Walnut Park, Cal. Dust-guard for vehicles. No. 1,125,274; Jan. 19; Gaz. vol. 210; p. 811.
- Dobbins, Timothy C., Walnut Park, Cal. Resilient wheel. No. 1,147,619; July 20; Gaz. vol. 216; p. 965.
- Dobbins, Timothy C., Huntington Park, Cal. Shaft-coupling. No. 1,147,620; July 20; Gaz. vol. 216; p. 966.
- Dobbins, Timothy C., Huntington Park, Cal. Resilient wheel. No. 1,147,621; July 20; Gaz. vol. 216; p. 966.
- Doberst, Anna, heiress. (See Doberst, Carl.)
- Doberst, Carl, deceased. (A. Doberst, née Rohlf, Reinbeck, Germany, heiress. Means for marking the lines of lawn-tennis courts. No. 1,145,754; July 6; Gaz. vol. 216; p. 273.)
- Dobes, Joseph J., Chicago, Ill., assignor to Monarch Tool & Machinery Company. Light-dimmer. No. 1,163,590; Dec. 7; Gaz. vol. 221; p. 299.
- Doble, John A., Waltham, Mass. Automatic fuel-control system for boilers. No. 1,131,683; Mar. 16; Gaz. vol. 212; p. 707.
- Doble, John A., Waltham, Mass. Vaporizing apparatus for hydrocarbon fuels. No. 1,151,090; Aug. 24; Gaz. vol. 217; p. 1142.
- Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Cal. Control mechanism for auxiliary nozzles. No. 1,123,860; Jan. 5; Gaz. vol. 210; p. 226.
- Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Cal. Pressure-controlling apparatus. No. 1,127,968; Feb. 9; Gaz. vol. 211; p. 498.
- Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Cal. Turbine-pump. No. 1,135,364; Apr. 13; Gaz. vol. 213; p. 496.
- Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Cal. Combined hydraulic motor and vacuum-creating means for cleaners. No. 1,138,852; May 11; Gaz. vol. 214; p. 436.
- Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Cal. Hydraulic nozzle. No. 1,157,853; Oct. 26; Gaz. vol. 219; p. 1001.
- Doble, William A., assignor to Pelton Water Wheel Company, San Francisco, Cal. Butterfly valve. No. 1,161,460; Nov. 23; Gaz. vol. 220; p. 1208.
- Doble, William H., et al. (See Field, Samuel B., assignor.)
- Dobregansky, Alexander, St. Petersburg, Russia. Bullet or projectile for firearms. No. 1,141,783; June 1; Gaz. vol. 215; p. 244.
- Dobrick, August C. (See Schoff, Young, and Dobrick.)
- Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Fastening for bars, &c. No. 1,145,471; July 6; Gaz. vol. 216; p. 175.
- Dobrowski, Wladyslaw, Pittsburgh, Pa. Cigar, cigarette, and match dispenser. No. 1,144,821; June 29; Gaz. vol. 215; p. 1433.
- Dobrzynski, Stanley J., Cuyahoga Falls, Ohio. Demountable rim. No. 1,166,043; Dec. 28; Gaz. vol. 221; p. 1280.
- Dobson, George W., Chicago, Ill. Ball-bearing. No. 1,153,901; Nov. 2; Gaz. vol. 220; p. 172.
- Dobson, George W., assignor to The Scarborough Co., Chicago, Ill. Roller-bearing. No. 1,150,507; Aug. 17; Gaz. vol. 217; p. 885.
- Dobson, James, assignor to Henry Pooley and Son Limited, Birmingham, England. Weighing-machine. No. 1,130,154; Mar. 2; Gaz. vol. 212; p. 108.
- Dobson, James, assignor to Henry Pooley and Son Limited, Birmingham, England. Weighing-machine. No. 1,130,155; Mar. 2; Gaz. vol. 212; p. 109.
- Dobson, John E., assignor to J. J. Hoey, New York, N. Y. Safety life-guard for vehicles. No. 1,145,004; July 6; Gaz. vol. 216; p. 9.
- Dobson, Joseph O., Mount Vernon, Iowa. Shade-roller. No. 1,131,684; Mar. 16; Gaz. vol. 212; p. 708.

Alphabetical list of patentees—Continued.

- Dobyne, George A. (See Corcoran and Dobyne.)
Dobyne, George A. (See Corcoran, Dobyne, and Schoenky.)
Dobyne, George A. (See Teague, Edward O., assignor.)
Dobyns, William T., Bristol, Tenn. Lining railway-curves. No. 1,127,204; Feb. 2; Gaz. vol. 211; p. 190.
Dochnal, Frank, St. Louis, Mo. Brick chimney structure. No. 1,156,468; Oct. 12; Gaz. vol. 219; p. 423.
Dock, Herman, Westerly, R. I. Internal-combustion engine. No. 1,135,365; Apr. 13; Gaz. vol. 213; p. 497.
Dock, William H., Wilmington, N. C. Hoe. No. 1,153,202; Sept. 14; Gaz. vol. 218; p. 333.
Dodd, Charles E., Williamsport, Pa. Can-opener. No. 1,164,793; Dec. 21; Gaz. vol. 221; p. 806.
Dodd, Frank W., Weymouth, England. Gyroscopic steering mechanism for automobile torpedoes. No. 1,156,350; Oct. 12; Gaz. vol. 219; p. 380.
Dodd, James F., Delaware, Ohio. Perpetual calendar and indicator. No. 1,163,325; Dec. 7; Gaz. vol. 221; p. 206.
Dodd, John, Wawota, Saskatchewan, Canada. Vehicle-seat. No. 1,131,487; Mar. 9; Gaz. vol. 212; p. 605.
Dodd, Laura L., Mineral Wells, Tex. Upholstery. No. 1,146,615; July 13; Gaz. vol. 216; p. 595.
Dodd, Robert, and H. B. P. Humphries, London, England. Preparation of semiplastic material from the soja bean. No. 1,143,893; June 22; Gaz. vol. 215; p. 1081.
Dodd & Struthers. (See Dodd, Thomas W., assignor.)
Dodd, Thomas W., assignor to Dodd & Struthers, Des Moines, Iowa. Bracket for lighting-rod points. No. 1,140,582; May 25; Gaz. vol. 214; p. 1115.
Dodd, West, Des Moines, Iowa. Means for protecting contents of oil-containing tanks against ignition by electrical discharge. No. 1,155,648; Oct. 5; Gaz. vol. 219; p. 112.
Doddridge, James M. (See Beck and Doddridge.)
Doddridge, Loyal M., Stanton, Mich. Envelop. No. 1,142,942; June 15; Gaz. vol. 215; p. 727.
Doddridge, Loyal M., assignor of one-half to G. E. Dakin, Stanton, Mich. Safety-brake. No. 1,124,216; Jan. 5; Gaz. vol. 210; p. 348.
Dodds, Ethan I. (See Brooks, Dodds, and Kitzinger.)
Dodds, Ethan I., Zellenopole, assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Stay-bolt. No. 1,131,342; Mar. 9; Gaz. vol. 212; p. 554.
Dodds, Ethan I., Zellenopole, assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Making bolts. No. 1,131,343; Mar. 9; Gaz. vol. 212; p. 554.
Dodds, Ethan I., Zellenopole, assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Stay-bolt. No. 1,146,482; July 13; Gaz. vol. 216; p. 550.
Dodds, Ethan I., Zellenopole, assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Bolt. No. 1,163,981; Dec. 14; Gaz. vol. 221; p. 481.
Dodds, Ethan I., Central Valley, N. Y., assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Fire-box stay-bolt for locomotive and other boilers. No. 1,146,481; July 13; Gaz. vol. 216; p. 550.
Dodds, Ethan I., Central Valley, N. Y., assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Manufacturing bolts. No. 1,165,399; Dec. 28; Gaz. vol. 221; p. 1056.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Bolt. No. 1,163,897; Dec. 14; Gaz. vol. 221; p. 462.
Dodds, George L., Winnipeg, Manitoba, Canada. Farm implement. No. 1,147,079; July 20; Gaz. vol. 216; p. 776.
Dodds, Harry G., Mobile, Ala. Sheet-metal barrel. No. 1,125,822; Jan. 19; Gaz. vol. 210; p. 1005.
Dodds, Lee L., East Pittsburgh, Pa. Valve mechanism. No. 1,125,980; Jan. 26; Gaz. vol. 210; p. 1093.
Dodge, Arthur B., Cambridge, Mass. Implement for finishing and puddling concrete. No. 1,162,462; Nov. 30; Gaz. vol. 220; p. 1601.
Dodge, Austin R., Schenectady, N. Y., assignor to General Electric Company. Means for increasing the velocity of fluids for metering purposes. No. 1,145,234; July 6; Gaz. vol. 216; p. 91.
Dodge, Austin R., Schenectady, N. Y., assignor to General Electric Company. Automatic feed-water regulator. No. 1,154,591; Sept. 21; Gaz. vol. 218; p. 853.
Dodge, Austin R., Schenectady, N. Y., assignor to General Electric Company. Feed-water regulator. No. 1,154,592; Sept. 21; Gaz. vol. 218; p. 854.
Dodge, Austin R., Schenectady, N. Y., assignor to General Electric Company. Integrating mechanism for flow-meters. No. 1,155,303; Sept. 28; Gaz. vol. 218; p. 1121.
Dodge, Austin R., Schenectady, N. Y., assignor to General Electric Company. Flow-meter. No. 1,157,301; Oct. 19; Gaz. vol. 219; p. 747.
Dodge Brothers. (See Dodge, John F. and H. E., assignors.)
Dodge Brothers. (See Whitman, Frederick H., assignor.)
Dodge, Chauncey W., Newburyport, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,164,794; Dec. 21; Gaz. vol. 221; p. 806.
Dodge & Dent Mfg. Co. (See Beck and Ayers, assignors.)
Dodge, Henry L., Stockton, Cal. Safety device for tanks. No. 1,156,469; Oct. 12; Gaz. vol. 219; p. 424.
Dodge, Horace E. (See Dodge, John F. and H. E.)
Dodge, James M., Philadelphia, Pa. Making chain-links. No. 1,125,275; Jan. 19; Gaz. vol. 210; p. 811.
Dodge, James M., Philadelphia, Pa. Coal-chute. No. 1,126,418; Jan. 26; Gaz. vol. 210; p. 1251.
Dodge, James M., Philadelphia, Pa. Chain-link. No. 1,130,580; Mar. 2; Gaz. vol. 212; p. 259.
Dodge, James M., Philadelphia, Pa. Chain. No. 1,130,581; Mar. 2; Gaz. vol. 212; p. 260.
Dodge, James M., Philadelphia, Pa. Chain-link. No. 1,130,582; Mar. 2; Gaz. vol. 212; p. 260.
Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Making chain-links. No. 1,139,019; May 11; Gaz. vol. 214; p. 496.
Dodge, John F., Detroit, and H. E. Dodge, Grosse Point, assignors to Dodge Brothers, Detroit, Mich. Spring-bracket. No. 1,129,278; Feb. 23; Gaz. vol. 211; p. 1039.
Dodge, John F., Detroit, and H. E. Dodge, Grosse Point, assignors to Dodge Brothers, Detroit, Mich. Friction-clutch. No. 1,141,322; June 1; Gaz. vol. 215; p. 84.
Dodge, John F., Detroit, and H. E. Dodge, Grosse Point, assignors to Dodge Brothers, Detroit, Mich. Universal joint mechanism. No. 1,144,531; June 29; Gaz. vol. 215; p. 1331.
Dodge, John F. and H. E., assignors to Dodge Brothers, Detroit, Mich. Gear-shift device. No. 1,163,648; Dec. 14; Gaz. vol. 221; p. 363.
Dodge, Karl, Philadelphia, Pa. Chain-link. No. 1,130,583; Mar. 2; Gaz. vol. 212; p. 260.
Dodge Manufacturing Company. (See Ahara, Edwin H., assignor.)
Dodge Manufacturing Company. (See Kenyon, Bertram C., assignor.)
Dodge, Norman, East Orange, N. J., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,123,707; Jan. 5; Gaz. vol. 210; p. 173.
Dodge, Norman, East Orange, N. J., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,176; Feb. 23; Gaz. vol. 211; p. 1004.
Dodge, Norman, East Orange, N. J., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,136,514; Apr. 20; Gaz. vol. 213; p. 945.
Dodge, Otis W., Spokane, Wash. Drying-cylinder. No. 1,163,224; Dec. 7; Gaz. vol. 221; p. 171.
Dodge, Owen. (See Sanders, Frank T., assignor.)
Dodge, Parker, Washington, D. C., assignor to R. E. Kimball, Cleveland, Ohio. Ticket-printer. No. 1,140,804; May 25; Gaz. vol. 214; p. 1189.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,126,419; Jan. 26; Gaz. vol. 210; p. 1251.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,177; Feb. 23; Gaz. vol. 211; p. 1004.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,130,261; Mar. 2; Gaz. vol. 212; p. 145.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,136,515; Apr. 20; Gaz. vol. 213; p. 945.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,139,020; May 11; Gaz. vol. 214; p. 496.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,144,822; June 29; Gaz. vol. 215; p. 1433.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,151,572; Aug. 31; Gaz. vol. 217; p. 1353.
Dodge, Philip T., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,158,792; Nov. 2; Gaz. vol. 220; p. 135.
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,129,078; Feb. 23; Gaz. vol. 211; p. 969.
Dodge, Ralph, Center Harbor, N. H. Snow-plow. No. 1,151,091; Aug. 24; Gaz. vol. 217; p. 1143.
Dodge, Raymond E., assignor to The Simplex Machine Co., New Haven, Conn. Eyeletting-machine. No. 1,131,123; Mar. 9; Gaz. vol. 212; p. 478.
Dodge, Robert W., Omaha, Nebr. Steam and hot-water dish-washer. No. 1,142,083; June 8; Gaz. vol. 215; p. 388.
Dodge, Willard A., Hornell, N. Y. Flexible pipe connection. No. 1,138,281; May 4; Gaz. vol. 214; p. 196.
Dodge, Willard A., Hornell, N. Y. Flexible pipe connection. No. 1,138,282; May 4; Gaz. vol. 214; p. 196.
Dodge, Willard A., Hornell, N. Y. Hose-coupling. No. 1,152,714; Sept. 7; Gaz. vol. 218; p. 123.
Dodge, William G., and C. H. Leave, Boston, Mass. Telephone-call register. No. 1,138,283; May 4; Gaz. vol. 214; p. 196.
Dodgson, Frank L. (See Salmon and Dodgson.)
Dodgson, Jacob, Seattle, Wash. Self-firing explosive bomb. No. 1,161,461; Nov. 23; Gaz. vol. 220; p. 1208.
Dodman, George S., Liverpool, England. Aerial and like vessel. No. 1,144,177; June 22; Gaz. vol. 215; p. 1183.
Dodokin, Paul, Langbank, Saskatchewan, Canada. Lamp-chimney holder. No. 1,139,503; May 18; Gaz. vol. 214; p. 700.

Alphabetical list of patentees—Continued.

- Dodokin, Paul, assignor of one-half to D. M. Smith, Langbank, Saskatchewan, Canada. Indicator for gasoline-tanks. No. 1,162,686; Nov. 30; Gaz. vol. 220; p. 1674.
- Dodson, Clifton T., Whitney, Tex. Money-changing machine. No. 1,144,698; June 29; Gaz. vol. 215; p. 1389.
- Dodson, Edwin L., Cincinnati, and C. J. Aebi, Norwood, Ohio, assignors to The Reliable Safe & Lock Company, Covington, Ky. Permutation-lock. No. 1,150,506; Aug. 17; Gaz. vol. 217; p. 885.
- Dodson, Job T., Kirksville, Mo. Fusible safety-plug. No. 1,151,704; Aug. 31; Gaz. vol. 217; p. 1418.
- Dodson, John V., Norwich, Kans. Trap-nest. No. 1,131,124; Mar. 9; Gaz. vol. 212; p. 479.
- Dodson, Samuel C., assignor of one-half to Ballard & Holiday, Baltimore, Md. Table-truck. No. 1,149,995; Aug. 10; Gaz. vol. 217; p. 644.
- Dodson, Samuel H., Grand Rapids, Mich., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Account-register. No. 1,165,948; Dec. 28; Gaz. vol. 221; p. 1247.
- Dodson, William H., New York, N. Y. Hand-stamp. No. 1,142,240; June 8; Gaz. vol. 215; p. 442.
- Doe, Nelson. (See Dubrule and Doe.)
- Doebler, Charles H. (See Point and Doebler.)
- Doelner Die Casting Company. (See Pack, Charles, assignor.)
- Doehler Die Casting Company. (See Sandage, Oliver G., assignor.)
- Doelger, Alexander L. (See Kleinstauber, Oscar D., assignor.)
- Doell, Charles J., Rochester, N. Y. Dirigible headlight. No. 1,166,337; Dec. 28; Gaz. vol. 221; p. 1388.
- Doelling, Louis F., Davenport, Iowa. Sanitary picnic-spoon. No. 1,128,114; Feb. 9; Gaz. vol. 211; p. 549.
- Doering, Charles, Jr., Chicago, Ill. Receptacle. No. 1,146,408; July 13; Gaz. vol. 216; p. 521.
- Doering, Charles, Jr., Chicago, Ill. Can-washing machine. No. 1,149,812; Aug. 10; Gaz. vol. 217; p. 577.
- Doering, Charles, Jr., Chicago, Ill. Can-washing machine. No. 1,149,813; Aug. 10; Gaz. vol. 217; p. 578.
- Doering, Fred H., assignor of one-half to V. J. Davis, Florence, Colo. Gate-operating device. No. 1,133,431; Mar. 30; Gaz. vol. 212; p. 1427.
- Doering, Frederick W., Jr., St. Louis, Mo. Automatic window-catch. No. 1,157,854; Oct. 26; Gaz. vol. 219; p. 1001.
- Doernbach, Stanley B., and J. H. Taylor, Philadelphia, Pa. Table-mat. No. 1,127,205; Feb. 2; Gaz. vol. 211; p. 191.
- Doerr, Frederick E., Portsmouth, Ohio. Gas-heater. No. 1,150,666; Aug. 17; Gaz. vol. 217; p. 940.
- Doerr, Harry E., St. Louis, Mo., assignor to Samson Car Coupler Company, New York, N. Y. Car-coupling. No. 1,138,198; May 4; Gaz. vol. 214; p. 167.
- Doherty, Harry B., Wilkes-Barre, Pa. Valve for internal-combustion engines. No. 1,127,868; Feb. 9; Gaz. vol. 211; p. 464.
- Doherty, Henry L., New York, N. Y. Combustion and heat regulation and regeneration. No. 1,123,500; Jan. 5; Gaz. vol. 210; p. 103.
- Doherty, Henry L., New York, N. Y. Burning powdered fuel. No. 1,145,356; July 6; Gaz. vol. 216; p. 132.
- Doherty, Henry L., New York, N. Y. Conducting combustion. No. 1,145,357; July 6; Gaz. vol. 216; p. 132.
- Doherty, Henry L., New York, N. Y. Combustion. No. 1,145,358; July 6; Gaz. vol. 216; p. 132.
- Doherty, Henry L., New York, N. Y. Calorimeter. No. 1,150,836; Aug. 17; Gaz. vol. 217; p. 999.
- Doherty, Henry L., New York, N. Y. Separating gases. No. 1,150,837; Aug. 17; Gaz. vol. 217; p. 999.
- Doherty, Henry L., New York, N. Y. Heat recuperation. No. 1,150,838; Aug. 17; Gaz. vol. 217; p. 1000.
- Doherty, Henry L., New York, N. Y. Prepared fuel for gas-producers. No. 1,150,839; Aug. 17; Gaz. vol. 217; p. 1001.
- Doherty, Henry L., New York, N. Y. Heating coke-ovens. No. 1,150,840; Aug. 17; Gaz. vol. 217; p. 1001.
- Doherty, Henry L., New York, N. Y. Smelting sulfid ores. No. 1,150,841; Aug. 17; Gaz. vol. 217; p. 1002.
- Doherty, Henry L., New York, N. Y. Regulating combustion of gaseous fuel. No. 1,150,842; Aug. 17; Gaz. vol. 217; p. 1002.
- Doherty, Henry L., New York, N. Y. Generating steam. No. 1,154,910; Sept. 28; Gaz. vol. 218; p. 989.
- Dohrmeier, Herman P. (See Guice, Dohrmeier, and Lane.)
- Doidge, John J., assignor, by mesne assignments, to The R. H. Long Machinery Company, South Framingham, Mass. Clutch mechanism. No. 1,140,885; May 25; Gaz. vol. 214; p. 1221.
- Doidge, John J., assignor to The R. H. Long Machinery Co., South Framingham, Mass. Thread-waxing device. No. 1,140,886; May 25; Gaz. vol. 214; p. 1221.
- Dolan, Ann E., St. Louis, Mo. Broom-protecting jacket. No. 1,125,988; Jan. 26; Gaz. vol. 210; p. 1094.
- Dolan, Halley C., Detroit, Mich. Electric signal for automobiles. No. 1,145,005; July 6; Gaz. vol. 216; p. 9.
- Dolan, James A., Hartford, Conn. Horseshoe. No. 1,132,707; Mar. 23; Gaz. vol. 212; p. 1128.
- Dolan, James A., Hartford, Conn. Horseshoe. No. 1,154,178; Sept. 21; Gaz. vol. 218; p. 711.
- Dolan, James A., assignor to The Side-Weight Horse Shoe Company, Hartford, Conn. Horseshoe. No. 1,152,715; Sept. 7; Gaz. vol. 218; p. 123.
- Dolan, James H., Lee, Mass. Tread for draft-animals. No. 1,153,374; Sept. 14; Gaz. vol. 218; p. 396.
- Dolbey, Harry S., assignor to Builders Iron Foundry, Providence, R. I. Fluid-meter. No. 1,146,409; July 13; Gaz. vol. 216; p. 521.
- Dolder, Frank V., Earlville, Ill. Apparatus for holding motors. No. 1,127,969; Feb. 9; Gaz. vol. 211; p. 499.
- Doldt, John E., Portland, Me., assignor to National Metal Seal Corporation, Boston, Mass. Closure for containing vessels. No. 1,153,897; Sept. 21; Gaz. vol. 218; p. 613.
- Dole Manufacturing Company, The. (See Dole, Raymond C., assignor.)
- Dole, Raymond C., assignor, by mesne assignments, to The Dole Manufacturing Company, Toledo, Ohio. Stamping-machine. No. 1,148,664; Aug. 3; Gaz. vol. 217; p. 65.
- Dolebo, George, and G. H. Lambert, Madison, Wis. Internal-combustion engine. No. 1,123,258; Jan. 5; Gaz. vol. 210; p. 19.
- Dolen, Charles M., Mooresville, Ind. Concrete-molding machine. No. 1,154,387; Sept. 21; Gaz. vol. 218; p. 784.
- Dolensky, Eugen, Frankfort-on-the-Main, Germany. Vacuum process for production of steel. No. 1,131,488; Mar. 9; Gaz. vol. 212; p. 605.
- Dolge, Carl B., Westport, Conn. Casket-truck. No. 1,138,641; May 11; Gaz. vol. 214; p. 359.
- Dolgeville Felt Shoe Company. (See Menge, William, Jr., assignor.)
- Dolgonas, John C., assignor of one-third to S. S. Dolgonas, Chicago, Ill., and two-thirds to himself. Device for cooling handkerchiefs. No. 1,151,573; Aug. 31; Gaz. vol. 217; p. 1353.
- Dolgonas, Samuel S. (See Dolgonas, John C., assignor.)
- Doll, Castleman D., Louisville, Ky. Mortar-spreader. No. 1,158,460; Nov. 2; Gaz. vol. 220; p. 17.
- Doll, William F., New York, N. Y., assignor of one-half to L. McClung, deceased, Washington, D. C.; R. G. McClung, administrator. Resilient wheel. No. 1,136,867; Apr. 20; Gaz. vol. 213; p. 1068.
- Doll, William F., New York, N. Y., assignor of one-half to L. McClung, deceased, Washington, D. C.; R. G. McClung, administrator. Resilient wheel. No. 1,136,868; Apr. 20; Gaz. vol. 213; p. 1069.
- Doll, William F., New York, N. Y., assignor of one-half to L. McClung, deceased, Washington, D. C.; R. G. McClung, administrator. Resilient wheel. No. 1,136,869; Apr. 20; Gaz. vol. 213; p. 1069.
- Dolley, Charles S., Nelson, N. H. Plastic composition for making receptacles. No. 1,146,787; July 20; Gaz. vol. 216; p. 674.
- Dolson, Martin O., Los Angeles, Cal. Spring-protector for trolley retrievers and catchers. No. 1,127,206; Feb. 2; Gaz. vol. 211; p. 191.
- Dom, Alexander. (See Hauss and Dom.)
- Dom, Alexander, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Ledger-binder. No. 1,123,708; Jan. 5; Gaz. vol. 210; p. 174.
- Dom, Alexander, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Perforator. No. 1,150,179; Aug. 17; Gaz. vol. 217; p. 771.
- Dom, Alexander and C., assignors to The Samuel C. Tatum Company, Cincinnati, Ohio. Paper-perforator. No. 1,154,294; Sept. 21; Gaz. vol. 218; p. 751.
- Dom, Chesley. (See Dom, Alexander and C.)
- Dom, Chesley, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Paper-perforator. No. 1,129,652; Feb. 23; Gaz. vol. 211; p. 1170.
- Dom, Chesley, assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Punch. No. 1,152,886; Sept. 7; Gaz. vol. 218; p. 186.
- Doma, Charles, Newark, N. J. Fruit-press. No. 1,147,222; July 20; Gaz. vol. 216; p. 827.
- Doman, John, Los Angeles, Cal. Saw-oiling device. No. 1,128,953; Feb. 16; Gaz. vol. 211; p. 891.
- Doman, Lewis B., assignor to Amphion Piano Player Company, Elbridge, N. Y. Tracker-shifting device for self-playing musical instruments. No. 1,132,517; Mar. 16; Gaz. vol. 212; p. 1012.
- Doman, Lewis B., assignor to The Amphion Piano Player Company, Syracuse, N. Y. Self-playing musical instrument. No. 1,141,044; May 25; Gaz. vol. 214; p. 1275.
- Doman, Lewis B., assignor to Amphion Piano Player Company, Elbridge, N. Y. Pneumatic self-playing musical instrument. No. 1,141,621; June 1; Gaz. vol. 215; p. 190.
- Doman, Lewis B., East Syracuse, N. Y., assignor to The Amphion Piano Player Company. Pumping mechanism for self-playing musical instruments. No. 1,149,996; Aug. 10; Gaz. vol. 217; p. 644.
- Doman, Lewis B., De Witt, assignor to The Amphion Piano Player Company, Syracuse, N. Y. Tempo-governor for self-playing musical instruments. No. 1,160,054; Nov. 9; Gaz. vol. 220; p. 609.
- Domann, Walter, and H. McPhee, Leavenworth, Wash. Detachable closure for cooking vessels. No. 1,126,730; Feb. 2; Gaz. vol. 211; p. 22.
- Domasiewicz, Konstanty, Philadelphia, Pa. Percussion musical instrument. No. 1,160,392; Nov. 16; Gaz. vol. 220; p. 781.
- Domenico, Cappelli, New York, N. Y. Key-operated lock. No. 1,133,943; Mar. 30; Gaz. vol. 212; p. 1608.

Alphabetical list of patentees—Continued.

- Domestic Appliances Company. (See Stabel, Joseph M., assignor.)
- Dominiel, Henri, *et al.* (See Biguard, Robert, assignor.)
- Dominion Gresham Guarantee & Casualty Company, The. (See Hamilton, William R., assignor.)
- Dominion Paper Box Company. (See Jones, John L., assignor.)
- Domizi, David F., Franklin, Pa. Machine for grinding the lateral faces of piston-rings. No. 1,139,649; May 18; Gaz. vol. 214; p. 751.
- Domizi, David F., Franklin, Pa. Machine for finishing the lateral edges of piston-rings. No. 1,139,650; May 18; Gaz. vol. 214; p. 752.
- Domizi, David F., Franklin, Pa. Piston-ring-shell turning and parting machine. No. 1,143,950; June 22; Gaz. vol. 215; p. 1101.
- Domizi, David F., Franklin, Pa. Motor. No. 1,155,998; Oct. 5; Gaz. vol. 219; p. 232.
- Domizi, David F., Franklin, Pa. Finishing-machine for the periphery of piston-rings. No. 1,162,581; Nov. 30; Gaz. vol. 220; p. 1640.
- Dompier, James A., Detroit, Mich. Taper drill-chuck. No. 1,157,513; Oct. 19; Gaz. vol. 219; p. 821.
- Donahae, Myrt F., Providence, R. I. Trap-nest. No. 1,135,441; Apr. 13; Gaz. vol. 213; p. 524.
- Donahay, De Witt S. (See Crossley, Samuel G., assignor.)
- Donahoo, Peter B., Oakland, Cal. Vehicle-spring. No. 1,129,796; Feb. 23; Gaz. vol. 211; p. 1217.
- Donahoo, Willie H., Tampa, Fla. Peplum. No. 1,146,056; July 13; Gaz. vol. 216; p. 399.
- Donahue, Christopher, assignor to The Thomas P. Taylor Co., Bridgeport, Conn. Embroidery-rings. No. 1,140,506; May 25; Gaz. vol. 214; p. 1089.
- Donahue, Joseph E. (See MacIndoe, John F., assignor.)
- Donald, Donald, Masterton, New Zealand. Combined door catch and lock. No. 1,137,195; Apr. 27; Gaz. vol. 213; p. 1223.
- Donald, Donald, Sydney, New South Wales, Australia. Wire-strainer. No. 1,151,670; Aug. 31; Gaz. vol. 217; p. 1386.
- Donald-Hutchinson Patents Limited. (See Hutchinson, George, assignor.)
- Donald, James, Glasgow, Scotland. Daylight-loading photographic dark slide. No. 1,158,902; Nov. 2; Gaz. vol. 220; p. 172.
- Donaldson, David Y., Denver, Colo. Telephone attachment. No. 1,163,326; Dec. 7; Gaz. vol. 221; p. 207.
- Donaldson, George, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Die. No. 1,129,079; Feb. 23; Gaz. vol. 211; p. 969.
- Donaldson, George A., Girard, Ill. Shuttle. No. 1,144,178; June 22; Gaz. vol. 215; p. 1183.
- Donaldson, James H., New Washington, Ohio. Farrow-house. No. 1,151,671; Aug. 31; Gaz. vol. 217; p. 1387.
- Donaldson, Orren M., River Forest, Ill. Sleeping-car. No. 1,135,268; Apr. 13; Gaz. vol. 213; p. 463.
- Donaldson, Orville M., West Allis, assignor of one-half to B. F. Feisch, Milwaukee, Wis. Paper-thickness regulator. No. 1,135,000; Apr. 13; Gaz. vol. 213; p. 372.
- Donaldson, Robert, Cleveland, Ohio. Window. No. 1,128,954; Feb. 16; Gaz. vol. 211; p. 891.
- Donaldson, Walter S., Omaha, Nebr. Reamer attachment for die-stocks. No. 1,141,045; May 25; Gaz. vol. 214; p. 1275.
- Donaldson, William M., assignor to Ingersoll-Rand Company, New York, N. Y. Regulator for fluid-compressors. No. 1,138,199; May 4; Gaz. vol. 214; p. 167.
- Donat, Charles J., assignor of one-half to F. C. Maly, Verdigre, Nebr. Wagon end-gate. No. 1,130,495; Mar. 2; Gaz. vol. 212; p. 230.
- Donat, Joseph L., Chicago, Ill. Wheel-tire. No. 1,162,143; Nov. 30; Gaz. vol. 220; p. 1492.
- Doner, Charles A., Spooner, Wis. Rafter-tool. No. 1,125,010; Jan. 12; Gaz. vol. 210; p. 680.
- Doner, Martin J., assignor to Inventors Specialty Manufacturing Company, Chicago, Ill. Sheet-metal structure. No. 1,161,764; Nov. 23; Gaz. vol. 220; p. 1311.
- Doney, Harvey L., *et al.* (See Pearson, James H., assignor.)
- Donham, Frederick E., and W. H. Fisher, Tacoma, Wash. Demountable rim. No. 1,137,708; Apr. 27; Gaz. vol. 213; p. 1401.
- Donholt, Charles W., Ridgewood, N. J. Package-tie. No. 1,164,270; Dec. 14; Gaz. vol. 221; p. 580.
- Dönitz, Max E., Zschieren, Dresden, Germany. Making a fermented but non-alcoholic wine. No. 1,152,154; Aug. 31; Gaz. vol. 217; p. 1555.
- Donley, William F. (See Doolittle, Tracy W., assignor.)
- Donlon, John J. (See Holbrook, and Donlon.)
- Donnell, Edwin C., Brockton, Mass. Innersole. No. 1,152,887; Sept. 7; Gaz. vol. 218; p. 187.
- Donnellan, James L., *et al.* (See Bock, Alfred C. O., assignor.)
- Donnellan, John J., *et al.* (See Bock, Alfred C. O., assignor.)
- Donnelly, Daniel H., Branford, Conn. Wrench. No. 1,164,175; Dec. 14; Gaz. vol. 221; p. 549.
- Donnelly, John J., Denver, Colo. Windmill. No. 1,142,502; June 8; Gaz. vol. 215; p. 536.
- Donnelly, John R., assignor to Wayne Process Company, Fort Wayne, Ind. Hydrocarbon-burner. No. 1,156,470; Oct. 12; Gaz. vol. 219; p. 424.
- Donnelly, Joseph, Philadelphia, Pa. Pan-lifter. No. 1,151,672; Aug. 31; Gaz. vol. 217; p. 1387.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Apparatus for cleansing match-composition tanks, &c. No. 1,127,415; Feb. 9; Gaz. vol. 211; p. 302.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Splint-drying means for match-machines. No. 1,127,416; Feb. 9; Gaz. vol. 211; p. 302.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for packing match-hooks, &c. No. 1,132,309; Mar. 16; Gaz. vol. 212; p. 937.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for assembling match-books, &c. No. 1,132,310; Mar. 16; Gaz. vol. 212; p. 937.
- Donner, Adam, Elberfeld, Germany. Stamping device. No. 1,129,279; Feb. 23; Gaz. vol. 211; p. 1040.
- Donner, Benjamin F. (See Harris, Donner, and McNair.)
- Donner, Percy E. (See Snyder, Jacob R., assignor.)
- Donning, George W., East Orange, assignor to H. T. Ambrose, Orange, N. J. Type-writer. No. 1,126,420; Jan. 26; Gaz. vol. 210; p. 1252.
- Donning, George W., Stamford, Conn., assignor to H. T. Ambrose, Orange, N. J. Escapement mechanism for type-writers, &c. No. 1,145,832; July 6; Gaz. vol. 216; p. 300.
- Donohue, James S., assignor of one-third to J. E. Moreland and one-third to M. V. Moran, Washington, D. C. Gas-main stopper. No. 1,151,514; Aug. 24; Gaz. vol. 217; p. 1286.
- Donovan, Frank H., Wellston, Mo. Combination Morris chair and bed. No. 1,153,423; Sept. 14; Gaz. vol. 218; p. 414.
- Donovan, Fredrick C., Vancouver, British Columbia, Canada. Composition of matter for cleaning and polishing painted or varnished surfaces. No. 1,123,709; Jan. 5; Gaz. vol. 210; p. 174.
- Donovan, Henry H. (See Young and Donovan.)
- Donovan, James H., and W. J. Forsyth, Buffalo, N. Y. Measuring instrument. No. 1,130,072; Mar. 2; Gaz. vol. 212; p. 80.
- Donovan, Patrick H. (See Turner and Donovan.)
- Donovan, Patrick H., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Triple-valve device. No. 1,134,442; Apr. 6; Gaz. vol. 213; p. 131.
- Donze, Addison S., and B. L. Walton, St. Marys, W. Va. Stem-holder for well-drilling machines. No. 1,162,144; Nov. 30; Gaz. vol. 220; p. 1492.
- Doody, Thomas, Duluth, Minn. Interchangeable heel for shoes. No. 1,148,363; July 27; Gaz. vol. 216; p. 1257.
- Dooley, Clarence H., Rock Island, Ill. Planter. No. 1,124,307; Jan. 12; Gaz. vol. 210; p. 428.
- Dooley, Clarence H., Rock Island, Ill., assignor to Deere & Mansur Co. Wire reeling and unreeling machine. No. 1,138,940; May 11; Gaz. vol. 214; p. 466.
- Dooley, Clarence H., Rock Island, Ill., assignor to Deere & Mansur Co., Moline, Ill. Marker mechanism for planters. No. 1,142,314; June 8; Gaz. vol. 215; p. 467.
- Dooley, Harry L., Rock Island, Ill. Clutch mechanism for planters. No. 1,135,442; Apr. 13; Gaz. vol. 213; p. 525.
- Dooley, Harry L., Rock Island, Ill. Variable-drop planter. No. 1,138,941; May 11; Gaz. vol. 214; p. 466.
- Dooley, Harry L., Rock Island, Ill. Seeder or dropping mechanism for planters. No. 1,140,118; Aug. 3; Gaz. vol. 217; p. 221.
- Dooley, Harry L., Rock Island, Ill., assignor to Deere & Mansur Co. Corn-planter. No. 1,128,766; Feb. 16; Gaz. vol. 211; p. 822.
- Dooley, James P., and W. W. Howard, Carthage, N. Y. Expanding shaft. No. 1,128,955; Feb. 16; Gaz. vol. 211; p. 892.
- Dooley, Thomas B. (See Sévigné and Dooley.)
- Doolittle, Elford F., Torrington, Conn. Bread-wrapper-sealing machine. No. 1,129,963; Mar. 2; Gaz. vol. 212; p. 44.
- Doolittle, Harry J., and O. W. Johnson, Cleveland, Ohio; said Johnson assignor to said Doolittle. Clock striking mechanism. No. 1,142,943; June 15; Gaz. vol. 215; p. 727.
- Doolittle, Rollin E., and P. S. Johst, New York, N. Y.; said Johst assignor to said Doolittle. Picture-building. No. 1,153,424; Sept. 14; Gaz. vol. 218; p. 414.
- Doolittle, Tracy W., Endicott, assignor to W. F. Donley, Binghamton, N. Y. Guard for woodworking-machines. No. 1,154,911; Sept. 28; Gaz. vol. 218; p. 990.
- Dopkins, George W., Morris, Minn. Pumping mechanism. No. 1,127,742; Feb. 9; Gaz. vol. 211; p. 418.
- Döppenschmitt, Friedrich, Pforzheim, Germany. Jewelry fabric. No. 1,162,463; Nov. 30; Gaz. vol. 220; p. 1602.
- Doran, Charles. (See Henry, Eugene E., assignor.)
- Doran, Daniel J., Brooklyn, N. Y., assignor to West Disinfecting Company. Disinfecting apparatus. No. 1,127,207; Feb. 2; Gaz. vol. 211; p. 191.
- Doran, James A., Providence, R. I. Pin-joint. No. 1,156,763; Oct. 12; Gaz. vol. 219; p. 526.
- Doran, James A., Providence, R. I. Pin for brooches and other articles. No. 1,160,149; Nov. 16; Gaz. vol. 220; p. 698.

Alphabetical list of patentees—Continued.

- Doran, James H., Monticello, Ind. Rug-display rack. No. 1,162,989; Dec. 7; Gaz. vol. 221; p. 89.
- Doran, John P., Jefferson, Wis. Drinking-cup. No. 1,124,308; Jan. 12; Gaz. vol. 210; p. 428.
- Doran, John P., Jefferson, Wis. Driving mechanism. No. 1,156,135; Oct. 12; Gaz. vol. 219; p. 308.
- Doran, Joseph M., Ogden, Utah. Train-pipe. No. 1,130,965; Mar. 9; Gaz. vol. 212; p. 425.
- Dordea, John C., Detroit, Mich. Pencil and sharpener. No. 1,165,856; Dec. 28; Gaz. vol. 221; p. 1215.
- Dore, Daniel M., New Haven, Conn. Device for coloring butter. No. 1,163,982; Dec. 14; Gaz. vol. 221; p. 481.
- Dore, Mary E., Becker, Minn. Potato-planter. No. 1,158,031; Oct. 26; Gaz. vol. 219; p. 1064.
- Doremus, Willard D., Washington, D. C., assignor to Exactograph Company. Check-protector. No. 1,131,602; Mar. 9; Gaz. vol. 212; p. 644.
- Doremus, Willard D., assignor to The Exactograph Company, Washington, D. C. Check-protector. No. 1,148,831; Aug. 3; Gaz. vol. 217; p. 125.
- Doren, Lewis W., Dallas, Tex., assignor of one-fourth to F. M. Jackson, one-fourth to G. Durand, and one-fourth to L. P. Durand. Fireproof door. No. 1,152,011; Aug. 31; Gaz. vol. 217; p. 1504.
- Doren, Lewis W., Dallas, Tex., assignor of one-fourth to F. M. Jackson, one-fourth to G. Durand, and one-fourth to L. P. Durand. Elevator-door sill. No. 1,152,012; Aug. 31; Gaz. vol. 217; p. 1505.
- Dorff, Conrad J. (See Cain and Dorff.)
- Dorgelob, George H., Schenectady, N. Y., assignor to General Electric Company. Liquid rheostat. No. 1,152,801; Sept. 7; Gaz. vol. 218; p. 154.
- Doria, Alfred. (See Neubaussen, Sebastian P., assignor.)
- Dorison, Fannie. (See Rudloff, Barnet, assignor.)
- Dorl, Walter P., assignor to Dorl-Wiley One Lady Auto Top Co., Detroit, Mich. Vehicle-top. No. 1,157,977; Oct. 26; Gaz. vol. 219; p. 1046.
- Dorl, Walter P., Detroit, Mich., assignor to Dorl-Wiley One Lady Auto Top Company. Vehicle-top. No. 1,162,042; Nov. 30; Gaz. vol. 220; p. 1456.
- Dorl-Wiley One Lady Auto Top Co. (See Dorl, Walter P., assignor.)
- Dorland, Frank N., Peru, Nebr. Can-sealing machine. No. 1,160,055; Nov. 9; Gaz. vol. 220; p. 609.
- Dorman, Samuel G. (See Van Sant, Thomas G., assignor.)
- Dorman, Samuel G., Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,166,116; Dec. 28; Gaz. vol. 221; p. 1306.
- Dormandy, Garry J., Troy, N. Y., assignor to United Shirt and Collar Company. Folding-machine. No. 1,126,421; Jan. 26; Gaz. vol. 210; p. 1252.
- Dormandy, Garry J., assignor of one-half to United Shirt and Collar Company, Troy, N. Y. Electric-lamp fixture. No. 1,126,672; Jan. 26; Gaz. vol. 210; p. 1345.
- Dorn, Charles A., assignor to The Bonnot Company, Canton, Ohio. Tile cutting and delivering machine. No. 1,162,284; Nov. 30; Gaz. vol. 220; p. 1541.
- Dorn, David, St. Cloud, Minn. Grain-shocker. No. 1,135,366; Apr. 13; Gaz. vol. 213; p. 497.
- Dorn, Lewis H., Carthage, Mo. Perch-pole. No. 1,130,715; Mar. 9; Gaz. vol. 212; p. 339.
- Dorn, Milton, Telford, Pa. Combination utensil. No. 1,148,084; July 27; Gaz. vol. 216; p. 1157.
- Dorn, Theodore F. von, et al. (See Hyle, Jacob A., assignor.)
- Dornan, William, Pomona, Cal. Vehicle-spring. No. 1,139,504; May 18; Gaz. vol. 214; p. 701.
- Dornes, Raymond A., New York, N. Y. Pump. No. 1,143,255; June 15; Gaz. vol. 215; p. 838.
- Dorneth, Julius, Berlin, Germany. Automatic door-locking device. No. 1,150,422; Aug. 17; Gaz. vol. 217; p. 855.
- Dorneth, Julius, assignor to Typograph-Gesellschaft m. b. H., Berlin, Germany. Matrix-bar for line setting and casting machines. No. 1,143,692; June 22; Gaz. vol. 215; p. 1013.
- Dorneth, Julius, assignor to Typograph Gesellschaft m. b. H., Berlin, Germany. Matrix-setting and line-casting machine. No. 1,155,137; Sept. 28; Gaz. vol. 218; p. 1069.
- Dornfeld, John F., Chicago, Ill. Malting apparatus. No. 1,146,139; July 13; Gaz. vol. 216; p. 427.
- Doro, John, New York, N. Y. Combined door check and closer. No. 1,134,111; Apr. 6; Gaz. vol. 213; p. 10.
- Dorothy, Merlin A., Pillsbury, N. D. Blacksmith's post-drill. No. 1,155,222; Sept. 28; Gaz. vol. 218; p. 1097.
- Dorr Cyanide Machinery Company, The. (See Nevill, David J., assignor.)
- Dorr, Frederick E., Everett, Mass. Game apparatus. No. 1,125,076; Jan. 19; Gaz. vol. 210; p. 738.
- Dorr, John V., Denver, Colo. Agitator. No. 1,131,222; Mar. 9; Gaz. vol. 212; p. 513.
- Dorr, John V., Denver, Colo. Apparatus for continuously separating solids from liquids. No. 1,140,131; May 18; Gaz. vol. 214; p. 923.
- Dorr, John V. N., Denver, Colo. Apparatus for the separation of finely-divided solids from liquids. No. 1,135,997; Apr. 20; Gaz. vol. 213; p. 761.
- Dorricott, Charles W., Philadelphia, Pa., assignor to Electrolle Company. Music-roll holder. No. 1,147,929; July 27; Gaz. vol. 216; p. 1100.
- Dorriil, Robert A., Newark, N. J. Toy railway. No. 1,142,150; June 8; Gaz. vol. 215; p. 411.
- Dorsey, Charles A., Idabel, Okla. Seat-spring. No. 1,149,741; Aug. 10; Gaz. vol. 217; p. 551.
- Dorsey, Farnum F. (See Halbleib and Dorsey.)
- Dorsey, Farnum F. (See McDade and Dorsey.)
- Dorsey, Farnum F. (See Nasief and Dorsey.)
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Power-transmission mechanism. No. 1,140,132; May 18; Gaz. vol. 214; p. 923.
- Dorsey, Herbert G., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Telephonic transmission-circuit. No. 1,145,978; July 13; Gaz. vol. 216; p. 371.
- Dorsey, Howard F., Lockport, La. Casting device for fish-nets. No. 1,154,563; Sept. 21; Gaz. vol. 218; p. 843.
- Dorsey, Vernon M., Laurel Grove, Md., assignor to Empire Machine Company, Portland, Me. Glass-blowing machine. No. 1,156,868; Oct. 12; Gaz. vol. 219; p. 564.
- Dorsey, Vernon M., Laurel Grove, Md., assignor to Empire Machine Company, Portland, Me. Glass-blowing machine. No. 1,163,983; Dec. 14; Gaz. vol. 221; p. 481.
- Dorsey, Walter A., assignor to The Bonney Floyd Company, Columbus, Ohio. Car wheel and axle. No. 1,129,855; Mar. 2; Gaz. vol. 212; p. 8.
- Dorsey, Walter A., assignor to The Bonney-Floyd Company, Columbus, Ohio. Car-wheel construction. No. 1,142,315; June 8; Gaz. vol. 215; p. 468.
- Dorso, Désiré, Vancouver, British Columbia, Canada. Automatic brake-pipe coupling. No. 1,132,916; Mar. 23; Gaz. vol. 212; p. 1205.
- Dosch, Charles R. (See Dosch, Peter and C. R.)
- Dosch, Peter and C. R., Stratford, Conn. Caster or wheel. No. 1,162,145; Nov. 30; Gaz. vol. 220; p. 1492.
- Doss, John B., Wingate, Ind. Mail-bag hasp-lock. No. 1,151,673; Aug. 31; Gaz. vol. 217; p. 1387.
- Dossor, Frederick M., Doncaster, England. Apparatus for cleaning and separating seeds and grain. No. 1,154,102; Sept. 21; Gaz. vol. 218; p. 686.
- Dost, Paul F. (See Hester, Beck, and Dost.)
- Dotten, Earl W., Aitkin, Minn. Power-spud for dredges. No. 1,154,492; Sept. 21; Gaz. vol. 218; p. 818.
- Dotts, Hiram S., Marianna, Pa. Cigar-tip-protecting label. No. 1,163,225; Dec. 7; Gaz. vol. 221; p. 172.
- Doty, Albert A., assignor of one-half to H. Orme, Greenwood, Ind. Emergency-brake. No. 1,124,716; Jan. 12; Gaz. vol. 210; p. 575.
- Doty, Barto E., Tintah, Minn. Power-transmission device. No. 1,127,208; Feb. 2; Gaz. vol. 211; p. 192.
- Doty, Edwin A., Albany, N. Y. Nut-lock. No. 1,133,843; Mar. 30; Gaz. vol. 212; p. 1575.
- Doty, Hubert A., Boston, Mass. Artificial limb. No. 1,134,185; Apr. 6; Gaz. vol. 213; p. 37.
- Doty, James M., Vancouver, Wash. Fender for vehicles. No. 1,129,179; Feb. 23; Gaz. vol. 211; p. 1005.
- Doty, Walter G., Dayton, Ohio, assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Chopping-machine. No. 1,145,755; July 6; Gaz. vol. 216; p. 273.
- Double Drive Differential Company. (See Nogrady, An Dor T., assignor.)
- Double, Edward. (See Griffin, Thomas J., assignor.)
- Double, Edward, Los Angeles, Cal. Combined rotary drilling nut and slips. No. 1,143,257; June 15; Gaz. vol. 215; p. 838.
- Double Power Mill Company. (See Schmidt, Reimar, assignor.)
- Double Seal Tire Valve Co. (See Kull, Albert L., assignor.)
- Doubleday, Villeroy C. (See Tountel and Doubleday.)
- Doubrava, Harry W., Hackensack, N. J., and J. Heineman, New York, N. Y., assignors to Wagner Electric Manufacturing Company, St. Louis, Mo. Operating polyphase motors. No. 1,156,136; Oct. 12; Gaz. vol. 219; p. 308.
- Doucet, Theodore, Indianapolis, Ind., assignor of one-half to O. M. Peet, Minneapolis, Minn. Collapsible folding wardrobe. No. 1,154,693; Sept. 28; Gaz. vol. 218; p. 917.
- Doud, Arthur N., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Operating means for dredging-buckets. No. 1,164,076; Dec. 14; Gaz. vol. 221; p. 516.
- Doué, Emile E. E., Collonges-sur-Saône, France. Carbureter. No. 1,149,035; Aug. 3; Gaz. vol. 217; p. 195.
- Dougal, William M. (See Greer, Charles I., assignor.)
- Dougan, John L., Plankinton, S. D. Vehicle-spring. No. 1,129,560; Feb. 23; Gaz. vol. 211; p. 1139.
- Dougan, John L., Plankinton, S. D. Carbureter. No. 1,155,407; Oct. 5; Gaz. vol. 219; p. 29.
- Dougan, Kennedy, Minneapolis, Minn. Vertical steam-pump. No. 1,136,216; Apr. 20; Gaz. vol. 213; p. 837.
- Dougan, Kennedy, Minneapolis, Minn. Wireless-controlled steering mechanism. No. 1,151,867; Aug. 31; Gaz. vol. 217; p. 1456.
- Dougan, Kennedy, Minneapolis, Minn. Type-writer. No. 1,152,494; Sept. 7; Gaz. vol. 218; p. 40.
- Dougan, Kennedy, Minneapolis, Minn. Type-writer. No. 1,152,495; Sept. 7; Gaz. vol. 218; p. 40.
- Dougan, Kennedy, Minneapolis, Minn. Automatic steering mechanism. No. 1,154,103; Sept. 21; Gaz. vol. 218; p. 686.

- Dougherty, Elmer E., Bloomfield, N. J. Treating leucit-rock for the extraction of alkali and alumina contained therein. No. 1,148,156; July 27; Gaz. vol. 216; p. 1183.
- Doughty, George E., Caldwell, N. J. Manifolding sales-book. No. 1,153,611; Sept. 14; Gaz. vol. 218; p. 481.
- Doughty, Henry C. (See Nichols, Herbert B., assignor.)
- Doughty, Howard W., Amherst, Mass. Fire-extinguisher. No. 1,157,090; Oct. 19; Gaz. vol. 219; p. 671.
- Douglas, Alexander, assignor of one-half to H. H. Hodgson, North Fitzroy, Victoria, Australia. Staff-exchanger. No. 1,151,167; Aug. 24; Gaz. vol. 217; p. 1169.
- Douglas, Charles E., Turner, Oreg. Weed-cutting implement. No. 1,142,503; June 8; Gaz. vol. 215; p. 537.
- Douglas, Charles H., Springfield, assignor to Douglas Saw & Machinery Co., Boston, Mass. Driving-chain for transmitting power. No. 1,141,869; June 1; Gaz. vol. 215; p. 272.
- Douglas, Clifford H., Patcham, England. Supply of energy to electrified railway systems. No. 1,163,514; Dec. 7; Gaz. vol. 221; p. 273.
- Douglas, Edward B. (See Adams, Donnison B., assignor.)
- Douglas, Harry A., Chicago, Ill. Connector. No. 1,134,673; Apr. 6; Gaz. vol. 213; p. 216.
- Douglas, Harry A., Bronson, Mich. Electric lamp. No. 1,151,249; Aug. 24; Gaz. vol. 217; p. 1198.
- Douglas, Henderson B. (See Hansson and Moeller, assignors.)
- Douglas, Raiford W., Miami, Fla. Auxiliary box-cover. No. 1,141,699; June 1; Gaz. vol. 215; p. 217.
- Douglas Saw & Machinery Co. (See Douglas, Charles H., assignor.)
- Douglas, Theodore, Scarborough, N. Y. Automatic engine-speed governor for vehicles. No. 1,128,115; Feb. 9; Gaz. vol. 211; p. 550.
- Douglas, William H., Belleville, N. J., assignor to Healey & Company, New York, N. Y. Universal joint. No. 1,135,967; Apr. 13; Gaz. vol. 213; p. 710.
- Douglas, William M., Galveston, Tex. Gun or rifle. No. 1,141,383; June 1; Gaz. vol. 215; p. 107.
- Douglass, Arthur R., Chariton, Iowa. Mop-wringer. No. 1,157,091; Oct. 19; Gaz. vol. 219; p. 672.
- Douglass, Peter J. A., Dartmouth, Nova Scotia, Canada. Hardening of compositions of nickel and copper. No. 1,163,813; Dec. 14; Gaz. vol. 221; p. 424.
- Douglass, Samuel E., Mount Gilead, N. C. Head-rest. No. 1,155,223; Sept. 28; Gaz. vol. 218; p. 1097.
- Douglass, Samuel E., Mount Gilead, N. C. Rake-cleaner. No. 1,155,897; Oct. 5; Gaz. vol. 219; p. 199.
- Douglass, Samuel F., Prairie du Rocher, Ill., assignor to Vehicle Signal Company. Vehicle-signal. No. 1,146,693; July 13; Gaz. vol. 216; p. 621.
- Douglass, Samuel F., Prairie du Rocher, Ill., assignor to Vehicle Signal Company. Direction-indicator for motor-vehicles. No. 1,165,949; Dec. 28; Gaz. vol. 221; p. 1247.
- Douros, Thomas J. (See Ingersoll and Douros.)
- Doust, James C., assignor of three-fourths to J. H. Lumbers, Toronto, Ontario, Canada. Rake. No. 1,158,649; Nov. 2; Gaz. vol. 220; p. 85.
- Doust, William J., Jr., Spokane, Wash. Truck. No. 1,149,639; Aug. 10; Gaz. vol. 217; p. 517.
- Dove, James M., assignor to C. P. Dryden, Chicago, Ill. Vacuum horseshoe. No. 1,156,278; Oct. 12; Gaz. vol. 219; p. 354.
- Dove-Smith, Joseph, Niagara Falls, N. Y. Pneumatic wheel. No. 1,135,779; Apr. 13; Gaz. vol. 213; p. 642.
- Dove-Smith, Joseph, Niagara Falls, N. Y. Variable-speed gearing. No. 1,155,898; Oct. 5; Gaz. vol. 219; p. 199.
- Dove-Smith, Joseph, Niagara Falls, Ontario, Canada. Box-labeling machine. No. 1,158,650; Nov. 2; Gaz. vol. 220; p. 85.
- Dove-Smith, Joseph, Niagara Falls, assignor to Jacob F. Smith Paper Box Company, Incorporated, Buffalo, N. Y. Box-labeling machine. No. 1,158,651; Nov. 2; Gaz. vol. 220; p. 86.
- Dover Manufacturing Company. (See Braun, William A., assignor.)
- Doyer Stamping & Manufacturing Company. (See Anderson, Pahr, assignor.)
- Dover Stamping & Manufacturing Company. (See Whitney, Horace E., assignor.)
- Dow, Alex., Detroit, Mich. Electric furnace. No. 1,161,634; Nov. 23; Gaz. vol. 220; p. 1267.
- Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
- Dow, Floyd, Wyandot, assignor to The Smokeless Burner Co., Chicago, Ill. Lamp-burner. (Reissue.) No. 1,140,016; Nov. 23; Gaz. vol. 220; p. 1336.
- Dow, George B. N., and J. F. Cavanaugh, Manchester, N. H. Knife-sharpener. No. 1,127,869; Feb. 9; Gaz. vol. 211; p. 464.
- Dow, George B. N., and J. F. Cavanaugh, Manchester, N. H. Knife-sharpener. No. 1,142,030; June 8; Gaz. vol. 215; p. 369.
- Dow, Herman L. (See Rosen, Sixten A., assignor.)
- Dow, Joel B. (See Larson, Peter S., assignor.)
- Dow, John L., Melrose Highlands, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing machine. No. 1,145,059; July 6; Gaz. vol. 216; p. 31.
- Dow Surgical Battery Company. (See Shattuck, Burt E., assignor.)
- Dow Wire & Iron Works. (See Williams, Harry E., assignor.)
- Dowd, John A., Fall River, Mass. Means for making nipples. No. 1,160,150; Nov. 16; Gaz. vol. 220; p. 698.
- Dowd, John P., Cleveland, and M. S. Thompson, Painesville, assignors of one-half to The Brown Hoisting Machinery Company and one-half to The White Company, Cleveland, Ohio. Dumping-truck. No. 1,131,489; Mar. 9; Gaz. vol. 212; p. 606.
- Dowdy, Roy F., Roanoke, Va. Electric gas-lighter. No. 1,159,908; Nov. 9; Gaz. vol. 220; p. 560.
- Dowe, Arthur W., Los Angeles, Cal. Hollow-tile structure. No. 1,158,653; Nov. 2; Gaz. vol. 220; p. 86.
- Dowler, Frank A., Lawrence, Kans. Automobile tire-pump. No. 1,137,956; May 4; Gaz. vol. 214; p. 82.
- Dowlin, Morris, Henniker, N. H. Awning-fixture. No. 1,149,036; Aug. 3; Gaz. vol. 217; p. 195.
- Dowlin, Morris, Henniker, N. H. Support for awnings. No. 1,162,582; Nov. 30; Gaz. vol. 220; p. 1641.
- Dowling, James B., Gouldsboro, Pa. Reversible ice-chute. No. 1,126,731; Feb. 2; Gaz. vol. 211; p. 22.
- Dowling, William, assignor to Mesker Brothers Iron Company, St. Louis, Mo. Metallic newel construction. No. 1,127,743; Feb. 9; Gaz. vol. 211; p. 418.
- Dowling, William, and W. A. Schroeder, assignors to Mesker Brothers Iron Company, St. Louis, Mo. Metallic stair construction. No. 1,138,642; May 11; Gaz. vol. 214; p. 360.
- Down, Ernest U., assignor to E. O. Miller and C. F. Leatherman, Bowling Green, Ohio. Combination coat, hat, and pants hanger. No. 1,143,693; June 22; Gaz. vol. 215; p. 1013.
- Down, Sidney G., Chicago, Ill., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Self-locking handle. No. 1,129,840; Feb. 23; Gaz. vol. 211; p. 1061.
- Downes, Louis W., Providence, R. I. Electric fuse. No. 1,161,036; Nov. 23; Gaz. vol. 220; p. 1056.
- Downey, Andrew, Columbus, Ohio. Toy. No. 1,162,687; Nov. 30; Gaz. vol. 220; p. 1674.
- Downey, Maurice S., and E. J. Wood, assignors of one-half to E. Bryant and P. C. Brashear, Castleton, N. Y. Paper box. No. 1,125,902; Jan. 19; Gaz. vol. 210; p. 1032.
- Downey, Richard F., assignor of one-half to H. Loewenbach, Milwaukee, Wis. Measuring device. No. 1,143,109; June 15; Gaz. vol. 215; p. 786.
- Downey, Richard F., assignor to H. Loewenbach, Milwaukee, Wis. Bowling game. No. 1,160,151; Nov. 16; Gaz. vol. 220; p. 698.
- Downey, Richard F., assignor to Badger Steel House Company, Milwaukee, Wis. Knockdown metallic house. No. 1,153,292; Sept. 14; Gaz. vol. 218; p. 364.
- Downey, William J. (See Cyr, Paul, assignor.)
- Downie, James K., Wawanesa, Manitoba, Canada. Wagon-seat. No. 1,147,711; July 27; Gaz. vol. 216; p. 1024.
- Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Valve for deep-well pumps. No. 1,161,851; Nov. 30; Gaz. vol. 220; p. 1388.
- Downing, Charles E., et al. (See Wittenberg, Paul J., assignor.)
- Downing, Harry W., Christchurch, New Zealand. Riding-saddle. No. 1,154,003; Sept. 21; Gaz. vol. 218; p. 651.
- Downing, Ira S., Cleveland, Ohio, assignor to The Curtain Supply Company, Chicago, Ill. Ticket-holder. No. 1,137,846; May 4; Gaz. vol. 214; p. 43.
- Downing, Ira S., Cleveland, Ohio, assignor to W. P. Murphy, Chicago, Ill. Train-pipe and means for securing the same to railway-cars. No. 1,151,092; Aug. 24; Gaz. vol. 217; p. 1143.
- Downing, Ira S., Cleveland, Ohio, assignor to W. P. Murphy, Chicago, Ill. Sheet-metal car end. No. 1,159,573; Nov. 9; Gaz. vol. 220; p. 438.
- Downing, James Y., Jackson, Miss. Wheel. No. 1,157,302; Oct. 19; Gaz. vol. 219; p. 747.
- Downing Pneumatic Wheel Company. (See Kettler, Martin F., assignor.)
- Downing, Thomas W., Chicago, Ill., Display-rack. No. 1,136,516; Apr. 20; Gaz. vol. 213; p. 945.
- Downingtown Manufacturing Company. (See Miller, Guyon, assignor.)
- Downs, George A., Forestville, assignor to Landers, Frary & Clark, New Britain, Conn. Food or meat chopper. No. 1,123,710; Jan. 5; Gaz. vol. 210; p. 174.
- Downs, George F., Buffalo, N. Y. Sintering process for the recovery of metallic oxides from flue-dust. No. 1,127,209; Feb. 2; Gaz. vol. 211; p. 192.
- Downs, George F., Buffalo, N. Y. Rotary furnace or kiln. No. 1,151,574; Aug. 31; Gaz. vol. 217; p. 1354.
- Downs, John M., Savannah, Ga. Apparatus for handling electric connector or tapping devices. No. 1,128,956; Feb. 16; Gaz. vol. 211; p. 892.
- Downs, Leon H., Goshen, N. Y. Lock for poison-containers. No. 1,132,566; Mar. 23; Gaz. vol. 212; p. 1076.
- Downs, William H., Morristown, N. J. Trousers. No. 1,130,966; Mar. 9; Gaz. vol. 212; p. 425.
- Doxey, Clifton E. (See Shoemaker, Frank, assignor.)
- Doyen, Louis, Paris, France. Coloring wood. No. 1,135,167; Apr. 13; Gaz. vol. 213; p. 430.
- Doyle, Claud D., et al., trustees. (See Finlayson, Alexander W., assignor.)
- Doyle, Dayle D. (See Doyle, William A., assignor.)

Alphabetical list of patentees—Continued.

- Doyle, George E., Sydney, and G. Barden, Newton, near Sydney, New South Wales, Australia. Wheel for common road-vehicles. No. 1,141,384; June 1; Gaz. vol. 215; p. 107.
- Doyle, Helen, Chicago, Ill. Sifter. No. 1,158,188; Oct. 26; Gaz. vol. 219; p. 1120.
- Doyle, James B., Hamilton, Ontario, Canada. Gas-furnace. No. 1,158,652; Nov. 2; Gaz. vol. 220; p. 86.
- Doyle, James E. (See Vestine, Andrew O., assignor.)
- Doyle, James E., Cleveland, Ohio. Attachment for printing-presses. No. 1,164,998; Dec. 21; Gaz. vol. 221; p. 877.
- Doyle, James S. (See Hedley and Doyle.)
- Doyle, James S., New York, N. Y. Combined safety-door and signaling system for railway-trains. No. 1,150,932; Aug. 24; Gaz. vol. 217; p. 1090.
- Doyle, James S., New York, N. Y., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Electro-pneumatic brake for railway-cars. No. 1,141,109; June 1; Gaz. vol. 215; p. 7.
- Doyle, James S., New York, N. Y., assignor to Consolidated Car Heating Company. Door-operating mechanism. No. 1,145,881; July 13; Gaz. vol. 216; p. 337.
- Doyle, James S., Yonkers, and F. Hedley, Mount Vernon, N. Y., assignors to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic electric coupling mechanism for car-line circuits. No. 1,166,194; Dec. 28; Gaz. vol. 221; p. 1336.
- Doyle, John B., Hamburg, Miss. Air-cock operator. No. 1,142,683; June 8; Gaz. vol. 215; p. 596.
- Doyle, Patrick A., Copenhagen, N. Y. Attachment to sulky-plows. No. 1,138,546; May 4; Gaz. vol. 214; p. 288.
- Doyle, W. H., *et al.* (See Nichols, Perry J., assignor.)
- Doyle, William, Balboa, Canal Zone. Building construction. No. 1,144,894; June 29; Gaz. vol. 215; p. 1458.
- Doyle, William A., assignor to D. D. Doyle, Dallas, Tex. Mold for concrete silos and the like. No. 1,159,366; Nov. 9; Gaz. vol. 220; p. 364.
- Doyle, William F., assignor of one-half to E. G. Stolte, deceased, Reedsburg, Wis.; F. P. Stolte, administratrix. Cooling system. No. 1,133,712; Mar. 30; Gaz. vol. 212; p. 1529.
- Doyle, William H., Brooklyn, N. Y. Armored military truck. No. 1,150,748; Aug. 17; Gaz. vol. 217; p. 967.
- Doyle, William J., and J. J. Wollenhaupt, assignors to The Monitor Stove & Range Company, Cincinnati, Ohio. Furnace. No. 1,133,242; Mar. 23; Gaz. vol. 212; p. 1322.
- Doze, Franklin, Walnut, Kans. Cane-stripper. No. 1,139,756; May 18; Gaz. vol. 214; p. 789.
- Dr. C. Otto & Comp. Ges. mit Beschr. Haftung. (See Ellington, Karl, assignor.)
- Dr. Kereszty, Dr. Wolf és Tsa Vegyészeti Gyár, R. T., *et al.* (See Bugarszky, István, assignor.)
- Dr. Richter & Co. (See Richter, Karl G. P., assignor.)
- Drabold, Walter, and A. P. Mott, Detroit, Mich. Tire. No. 1,137,124; Apr. 27; Gaz. vol. 213; p. 1199.
- Drabold, Walter, and A. P. Mott, Detroit, Mich. Automobile traffic-signal. No. 1,164,581; Dec. 14; Gaz. vol. 221; p. 689.
- Drader, Charles, and R. R. Candee, Bakersfield, Cal. Non-leak seat and anchor for liner-pumps. No. 1,151,765; Aug. 31; Gaz. vol. 217; p. 1419.
- Draeger, Lloyd, Milwaukee, Wis. Clip or holder for lead-pencils, fountain-pens, or similar articles. No. 1,162,732; Nov. 30; Gaz. vol. 220; p. 1690.
- Dräger, Alexander B., Lübeck, Germany. Diving apparatus. No. 1,131,490; Mar. 9; Gaz. vol. 212; p. 606.
- Dräger, Alexander B., Lübeck, Germany. Mask, helmet, or the like for use with respiratory apparatus. No. 1,150,508; Aug. 17; Gaz. vol. 217; p. 885.
- Dräger, Johann H., assignor to Drägerwerk, Heinh. & Bernh. Dräger, Lübeck, Germany. Artificial-breathing apparatus. No. 1,136,517; Apr. 20; Gaz. vol. 213; p. 946.
- Drägerwerk, Heinh. und Bernh. Dräger. (See Claren, Ferdinand L., assignor.)
- Drägerwerk Heinh. & Bernh. Dräger. (See Claren, Ludwig F., assignor.)
- Drägerwerk, Heinh. & Bernh. (See Dräger, Johann H., assignor.)
- Drägerwerk, Heinh. & Bernh. Dräger. (See Stelzner, Hermann, assignor.)
- Drago, Christie J. (See Renault and Drago.)
- Drago, Louis A., Seattle, Wash. Fuel-controlling device. (Reissue.) No. 13,933; June 22; Gaz. vol. 215; p. 1240.
- Draher, John, assignor to Lane Manufacturing Company, Waterbury, Conn. Fastener assembling and attaching means. No. 1,165,078; Dec. 21; Gaz. vol. 221; p. 904.
- Drahonovsky, John B., assignor of one-half to P. Lesch, Milwaukee, Wis. Resilient wheel. No. 1,154,912; Sept. 28; Gaz. vol. 218; p. 990.
- Drake, Albert H., Waterloo, Iowa. Telephone-receiver support. No. 1,142,804; June 15; Gaz. vol. 215; p. 678.
- Drake, Alden M. (See Heald and Drake.)
- Drake, Alison L., New York, N. Y. Metal box. No. 1,136,320; Apr. 20; Gaz. vol. 213; p. 874.
- Drake, Bert C., Wanbay, S. D. Binder attachment. No. 1,165,370; Dec. 21; Gaz. vol. 221; p. 1007.
- Drake, Frank H. (See Leighton and Drake.)
- Drake, Howard A., Richmond, Va. Ticket. No. 1,153,043; Sept. 7; Gaz. vol. 218; p. 241.
- Drake, James C., assignor to Conley Camera Company, Rochester, Minn. Camera. No. 1,127,870; Feb. 9; Gaz. vol. 211; p. 464.
- Drake, Le Roy P., and C. E. Cann, London, England. Printing-machine. No. 1,124,309; Jan. 12; Gaz. vol. 210; p. 428.
- Drake, Ora, Cleveland, Ohio. Vacuum cleaning-machine. No. 1,126,732; Feb. 2; Gaz. vol. 211; p. 23.
- Drake Printing Company. (See McKerrow, Walton, and Shearsmith, assignors.)
- Drake, Rollin L., Port Arthur, Tex., assignor to The Texas Company. Expanding device for can-bumping presses. No. 1,164,582; Dec. 14; Gaz. vol. 221; p. 689.
- Drake, Sylvester A., Jamestown, N. Y. Poultry-feeder. No. 1,131,491; Mar. 9; Gaz. vol. 212; p. 606.
- Dralle, William H., Schenectady, N. Y. Metallic electric welder. No. 1,128,116; Feb. 9; Gaz. vol. 211; p. 550.
- Drambourg, Rudolphe, and J. E. Reid, New York, N. Y. Storage battery. No. 1,126,422; Jan. 26; Gaz. vol. 210; p. 1253.
- Dramis, Gennaro, Brooklyn, N. Y. Folding box. No. 1,155,899; Oct. 5; Gaz. vol. 219; p. 200.
- Drapak, Alfred J. (See Stephenson and Drapak.)
- Drapak, Alfred J., assignor of one-half to F. W. Frank, Rocky Mount, N. C. Garbage-receptacle. No. 1,164,533; Dec. 14; Gaz. vol. 221; p. 690.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Sheet-metal receptacle. No. 1,125,011; Jan. 12; Gaz. vol. 210; p. 680.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Sheet-metal receptacle. No. 1,134,730; Apr. 6; Gaz. vol. 213; p. 237.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Means for removably securing the heads of metallic barrels. No. 1,150,843; Aug. 17; Gaz. vol. 217; p. 1002.
- Draper Company. (See Ballou, Eugene H., assignor.)
- Draper Company. (See Brazell, Thomas F., assignor.)
- Draper Company. (See Burbank, Louis S., assignor.)
- Draper Company. (See Davis, Harry A., assignor.)
- Draper Company. (See Gagnon, Erasme, assignor.)
- Draper Company. (See Gerrard, William, assignor.)
- Draper Company. (See Hollins, Denis M., assignor.)
- Draper Company. (See Kristek, Emmerich H., assignor.)
- Draper Company. (See Lane, Charles B., assignor.)
- Draper Company. (See Martin, Thelesthare, assignor.)
- Draper Company. (See Osgood, Dana, assignor.)
- Draper Company. (See Poisson, Joseph, assignor.)
- Draper Company. (See Rhoades, Alonzo E., assignor.)
- Draper Company. (See Snow, Isaac, assignor.)
- Draper Company. (See Spofford, George E., assignor.)
- Draper Company. (See Stimpson, Edward S., assignor.)
- Draper Company. (See Stone, Melvin L., assignor.)
- Draper Company. (See Widdup, William R., assignor.)
- Draper, David, Rome, N. Y. Planter. No. 1,152,402; Sept. 7; Gaz. vol. 218; p. 7.
- Draper, Francis W., assignor to The Starr Piano Company, Richmond, Ind. Automatic tracker. No. 1,138,461; May 4; Gaz. vol. 214; p. 261.
- Draper, George W., Fair Haven, Vt. Transmission-gearing. No. 1,140,256; May 18; Gaz. vol. 214; p. 965.
- Draper, John M., Manchester, England. Fine-coal and ore separator. No. 1,151,448; Aug. 24; Gaz. vol. 217; p. 1262.
- Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
- Drayton, William. (See Reagan, Daniel E., assignor.)
- Dreehouse, Fred L. (See Dreehouse, John A. and F. L.)
- Dreehouse, John A. and F. L., Laramie, Wyo. Air-pump. No. 1,165,157; Dec. 21; Gaz. vol. 221; p. 934.
- Drefahl, Louis C., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Treating ores. No. 1,153,203; Sept. 14; Gaz. vol. 218; p. 333.
- Dreher, Julius H., Detroit, Mich. Fish-stop. No. 1,150,348; Aug. 17; Gaz. vol. 217; p. 830.
- Dreher, Phillip J., Toledo, Ohio. Electric piano-player. No. 1,133,370; Mar. 30; Gaz. vol. 212; p. 1404.
- Dreher, Phillip J., Toledo, Ohio. Stop means for sheet-handling apparatus. No. 1,143,369; June 15; Gaz. vol. 215; p. 878.
- Dreher, Phillip J., Toledo, Ohio. Stop means for automatic type-writers, &c. No. 1,149,561; Aug. 10; Gaz. vol. 217; p. 485.
- Dreibelbis, Walter F., Royersford, Pa. Chicken-feeder. No. 1,123,501; Jan. 5; Gaz. vol. 210; p. 104.
- Dreibelbis, Walter F., Royersford, Pa. Chicken-feeder. No. 1,143,756; June 22; Gaz. vol. 215; p. 1034.
- Dreifuss, Leopold, assignor of one-third to E. P. Antonovich, San Diego, Cal. Amusement apparatus. No. 1,133,623; Mar. 30; Gaz. vol. 212; p. 1496.
- Dreibach, Charles A., New Haven, Conn. Multiple-piston device. No. 1,165,400; Dec. 28; Gaz. vol. 221; p. 1056.
- Drenshstein, Ephraim, New York, N. Y. Arch-supporter. No. 1,135,100; Apr. 13; Gaz. vol. 213; p. 407.
- Drescher, Frank C. (See Jackson and Drescher.)
- Dresler, Ernst, Neukölln, Germany. Compressed-gas lamp. No. 1,134,319; Apr. 6; Gaz. vol. 213; p. 87.
- Dressel, Frederick W. L., New York, N. Y., assignor to The Dressel Railway Lamp Works. Long-time burner. No. 1,145,873; July 6; Gaz. vol. 216; p. 315.

Alphabetical list of patentees—Continued.

- Dressel, Henry G., Chicago, Ill. Dental tool. No. 1,130,716; Mar. 9; Gaz. vol. 212; p. 340.
- Dressel, John, Indianapolis, Ind. Floatless carbureter. No. 1,126,159; Jan. 26; Gaz. vol. 210; p. 1158.
- Dressel, Oscar. (See Kothe and Dressel.)
- Dressel Railway Lamp Works, The. (See Dressel, Frederick W. L., assignor.)
- Dresser, Charles A. (See Walser and Dresser.)
- Dresser, Frank A., assignor of one-half to W. A. Lyon, Lyndonville, Vt. Quarter-crack clamp-setting tool. No. 1,163,617; Dec. 7; Gaz. vol. 221; p. 309.
- Dressler, Samuel, Brooklyn, N. Y. Whistle. No. 1,133,713; Mar. 30; Gaz. vol. 212; p. 1530.
- Drew Carrier Company. (See Stevenson, Charles M., assignor.)
- Drew, Harry A., and G. M. Mazza, Weebawken, N. J., assignors to Coin Device & Signal Co., Inc. Money-receiving apparatus. No. 1,163,515; Dec. 7; Gaz. vol. 221; p. 273.
- Drew, Henry J. (See Drew, John A. H. and H. J.)
- Drew, Herbert W., Chicago, Ill. Window-ventilator. No. 1,128,235; Feb. 9; Gaz. vol. 211; p. 591.
- Drew, Herbert W., Chicago, Ill. Window-ventilator. No. 1,141,532; June 1; Gaz. vol. 215; p. 159.
- Drew, Herbert W., Chicago, Ill. Window-ventilator. No. 1,145,882; July 13; Gaz. vol. 216; p. 337.
- Drew, John A. H., Fitzroy, and H. J. Drew, North Fitzroy, Melbourne, Victoria, Australia. Detachable heel for footwear. No. 1,160,152; Nov. 16; Gaz. vol. 220; p. 699.
- Drew, John O., Mason, Mich. Steam-vulcanizer. No. 1,125,276; Jan. 19; Gaz. vol. 210; p. 811.
- Drew, Vernon, London, England. Apparatus for the attainment of correct breathing. No. 1,134,320; Apr. 6; Gaz. vol. 213; p. 87.
- Drew, William F., Oakland, assignor of one-half to J. Finn, Mill Valley, Cal. Liquid-hydrocarbon burner. No. 1,130,073; Mar. 2; Gaz. vol. 212; p. 80.
- Drew, William J., Racine, Wis. Means for inflating pneumatic tires. No. 1,134,186; Apr. 6; Gaz. vol. 213; p. 37.
- Drewell, Heinrich, Charlottenburg, Germany. Type-setting machine. No. 1,145,359; July 6; Gaz. vol. 216; p. 133.
- Drewell, Heinrich, Charlottenburg, Germany. Type-setting machine. No. 1,163,985; Dec. 14; Gaz. vol. 221; p. 482.
- Drewell, Heinrich, assignor to Schnellsetzmaschinen-Gesellschaft mit beschränkter Haftung, Charlottenburg, Germany. Automatic line-casting machine. No. 1,163,984; Dec. 14; Gaz. vol. 221; p. 482.
- Drewell, Heinrich, assignor to Schnellsetzmaschinen-Gesellschaft mit beschränkter Haftung, Charlottenburg, Germany. Type-writing and perforating device. No. 1,163,986; Dec. 14; Gaz. vol. 221; p. 483.
- Drexelius, George W., Baltimore, Md., assignor of one-half to W. R. Metz, Washington, D. C. Counting and weighing machine. No. 1,134,112; Apr. 6; Gaz. vol. 213; p. 10.
- Drexelius, George W., Baltimore, Md., assignor of one-half to W. R. Metz, Washington, D. C. Elevating-truck. No. 1,134,113; Apr. 6; Gaz. vol. 213; p. 10.
- Drey, Leo A., St. Louis, Mo. Drop-feeding device for glass-machines. No. 1,146,694; July 13; Gaz. vol. 216; p. 622.
- Drey, Wilfred J. (See Wilks and Drey.)
- Dreyfus, Adolphus W., Delhi, N. Y. Spring suspension system. No. 1,140,257; May 18; Gaz. vol. 214; p. 965.
- Dreyfus, Isaac. (See Beckers and Dreyfus.)
- Drivdger, Abram, Osler, Saskatchewan, Canada. Railway-rail joint. No. 1,129,180; Feb. 23; Gaz. vol. 211; p. 1005.
- Driscoll, Frank E., Jersey City, N. J., assignor, by mesne assignments, to J. G. Collin, trustee. Machine for making a composing-ribbon or controller for automatic typographic machines. No. 1,136,082; Apr. 20; Gaz. vol. 213; p. 789.
- Driscoll, Edward J., Chicago, Ill. Saw-gage. No. 1,123,711; Jan. 5; Gaz. vol. 210; p. 175.
- Driscoll, John, assignor of one-half to D. E. Bennett, Gypsum, Kans. Car-coupling. No. 1,158,189; Oct. 26; Gaz. vol. 219; p. 1120.
- Driscoll, Michael J., Cristobal, Canal Zone. Poison-bottle. No. 1,162,583; Nov. 30; Gaz. vol. 220; p. 1641.
- Drissler, Frederick W., Minneapolis, Minn. Tooth-regulating appliance. No. 1,139,170; May 11; Gaz. vol. 214; p. 548.
- Driver, Charles H., assignor to C. H. Driver & Kerr Co., Racine, Wis. Sandpaper belting. No. 1,126,423; Jan. 26; Gaz. vol. 210; p. 1253.
- Driver, Starling, Birmingham, Ala. Hydraulic pump. No. 1,123,712; Jan. 5; Gaz. vol. 210; p. 175.
- Droitcour, Michael A., Maywood, Ill. Sheet-feeder. No. 1,146,929; July 20; Gaz. vol. 216; p. 724.
- Droitcour, Michael A., Maywood, Ill. Sheet-delivery mechanism. No. 1,146,930; July 20; Gaz. vol. 216; p. 724.
- Droitcour, Michael A., Delphos, Ohio. Shaft-locking means. No. 1,163,898; Dec. 14; Gaz. vol. 221; p. 452.
- Drolet, Mederic, Kanakakee, Ill., assignor to Iowa Washing Machine Company, Des Moines, Iowa. Gearing. No. 1,129,280; Feb. 23; Gaz. vol. 211; p. 1040.
- Drolshagen, Peter, Aurora, Ill. Band connection. No. 1,136,217; Apr. 20; Gaz. vol. 213; p. 838.
- Dronsfield, James, Oldham, England. Machine for pointing pegs for the creels used in textile trades, &c. No. 1,165,764; Dec. 28; Gaz. vol. 221; p. 1185.
- Drosin, Henry B., and M. Gordon, New York, N. Y.; said Drosin assignor to said Gordon. Butter-cutter. No. 1,141,784; June 1; Gaz. vol. 215; p. 244.
- Drosin, Louis, New York, N. Y. Vaginal speculum. No. 1,150,749; Aug. 17; Gaz. vol. 217; p. 968.
- Drouot, Gustave C., Paris, France, assignor to Societe Brunswick-Balke-Collender Company, Chicago, Ill. Billiard-table. No. 1,158,793; Nov. 2; Gaz. vol. 220; p. 135.
- Droz, Frederick A., Fair Oaks, Pa. Egg-carrier. No. 1,126,185; Jan. 26; Gaz. vol. 210; p. 1170.
- Drozeski, Julius R., assignor of one-half to J. Kolb, Erie, Pa. Sprinkler-valve mechanism. No. 1,136,897; Apr. 20; Gaz. vol. 213; p. 1079.
- Drozinski, Bronislaw, Scranton, Pa. Combined aero, hydro, and auto plane. No. 1,143,894; June 22; Gaz. vol. 215; p. 1081.
- Druck, Charles, Wasco, Cal. Wrench. No. 1,156,764; Oct. 12; Gaz. vol. 219; p. 526.
- Drucklieb, Paul A. (See Cohen, Barnett, assignor.)
- Drucklieb, Paul A., assignor to New York Cigarette Machine Company, New York, N. Y. Machine for finishing cigarette-seams. No. 1,152,716; Sept. 7; Gaz. vol. 218; p. 124.
- Drucklieb, Paul A., assignor to New York Cigarette Machine Company, New York, N. Y. Machine for finishing cigarette-seams. No. 1,152,717; Sept. 7; Gaz. vol. 218; p. 124.
- Druitt, Percy W. (See Earle and Druitt.)
- Druitt, Percy W., assignor, by mesne assignments, to E. H. Allen and A. F. de Fonblanque, London, England. Mold for type-casting machines. No. 1,145,756; July 6; Gaz. vol. 216; p. 273.
- Druitt, Percy W., Surrey, assignor to E. H. Allen and A. F. de Fonblanque, London, England. Mold for typographic or type-founding apparatus. No. 1,149,119; Aug. 3; Gaz. vol. 217; p. 221.
- Druitt, Percy W., and W. R. Gilpin, London, England. Apparatus for composing and casting type. No. 1,161,635; Nov. 23; Gaz. vol. 220; p. 1268.
- Druitt, Percy W., and W. R. Gilpin, assignors to E. H. Allen and A. F. de Fonblanque, London, England. Distributing mechanism for type-casting machines. No. 1,162,584; Nov. 30; Gaz. vol. 220; p. 1641.
- Drum, Francis M., Sawtelle, Cal. Everset mouse-trap. No. 1,163,071; Dec. 7; Gaz. vol. 221; p. 117.
- Drum, George E., and J. H. Skitt, assignors to Smith, Drum and Company, Philadelphia, Pa. Circulating rotary dyeing-machine. No. 1,125,497; Jan. 19; Gaz. vol. 210; p. 888.
- Drum, John T. (See Rupert and Drum.)
- Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Column. No. 1,130,805; Mar. 9; Gaz. vol. 212; p. 370.
- Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Column-forming machine. No. 1,158,794; Nov. 2; Gaz. vol. 220; p. 135.
- Drumm, John B., Winslow, Ariz. Automatic roller. No. 1,144,030; June 22; Gaz. vol. 215; p. 1130.
- Drummond, Charles E., and C. Ridley, Coventry, England. Means for producing teeth on gear-wheels. No. 1,135,780; Apr. 13; Gaz. vol. 213; p. 643.
- Drummond, Robert S., assignor to Detroit Steel Products Company, Detroit, Mich. Glass-holding device for metallic windows. No. 1,140,887; May 25; Gaz. vol. 214; p. 1221.
- Drummond, Robert S., assignor to Detroit Steel Products Company, Detroit, Mich. Metallic window-sash. No. 1,158,461; Nov. 2; Gaz. vol. 220; p. 18.
- Drummond, Wilbert I., Muskogee, Okla. Harrow. No. 1,165,857; Dec. 28; Gaz. vol. 221; p. 1215.
- Drury, Charles W., Kingston, Ontario, Canada. Treating feldspar for use as a fertilizer. No. 1,150,815; Aug. 17; Gaz. vol. 217; p. 991.
- Drury, Harry S. (See Heichert and Drury.)
- Druschel, Henry. (See Williams, David S., assignor.)
- Dryden, Charles P. (See Dove, James M., assignor.)
- Dryden, Frederick H., Montgomery City, Mo. Means for converting motion. No. 1,141,323; June 1; Gaz. vol. 215; p. 84.
- Dryer, Benjamin J., New York, N. Y. Resilient wheel. No. 1,142,504; June 8; Gaz. vol. 215; p. 537.
- Dryer, Joseph J., et al. (See Rittich, Frank, assignor.)
- Dryfoos, Nathan I., Cleveland, Ohio. Soldering-tool. No. 1,127,970; Feb. 9; Gaz. vol. 211; p. 499.
- Drygas, Albert B., St. Cloud, Minn. Grain-header. No. 1,154,493; Sept. 21; Gaz. vol. 218; p. 818.
- Drygas, Albert B., and J. St. Cloud, Minn. Envelop. No. 1,129,633; Feb. 23; Gaz. vol. 211; p. 1170.
- Drygas, Joseph. (See Drygas, Albert B. and J.)
- Drysdale, Alexander T., Burlington, N. J. Machine for stamping sand molds. No. 1,154,238; Sept. 21; Gaz. vol. 218; p. 732.
- Drÿvers, Urban. (See Savoye and Drÿvers.)
- Du Boë, Dominique D., Washington, D. C. Milk-can perforator and pourer. No. 1,130,967; Mar. 9; Gaz. vol. 212; p. 425.

Alphabetical list of patentees—Continued.

- Du Bois, Arthur H., New York, N. Y. Toy balloon. No. 1,151,093; Aug. 24; Gaz. vol. 217; p. 1143.
- Du Bois, Delafield, New York, N. Y., assignor to Crocker-Wheeler Company, Ampere, N. J. Automatic control of machinery. No. 1,161,932; Nov. 30; Gaz. vol. 220; p. 1418.
- Du Bois, Frederick M., Thompsonville, Conn. Detachable trolley-harp. No. 1,145,006; July 6; Gaz. vol. 216; p. 9.
- Du Bois, Joseph C., East Lake, Ala. Track-oller. No. 1,132,311; Mar. 16; Gaz. vol. 212; p. 938.
- Du Bois, Rhesa G., and W. L. Mead, South Orange, N. J. Automobile. No. 1,123,996; Jan. 5; Gaz. vol. 210; p. 270.
- Du Bose, Joel H., Clarksville, Ga., assignor of one-half to J. K. Smith, Grand Rapids, Mich. Cork-extractor. No. 1,123,259; Jan. 5; Gaz. vol. 210; p. 19.
- Du Brul, Albert. (See Du Brul, Napoleon and A.)
- Du Brul, Napoleon, Cincinnati, Ohio. Cigarette-machine. No. 1,133,844; Mar. 30; Gaz. vol. 212; p. 1575.
- Du Brul, Napoleon, Cincinnati, Ohio, and A. Du Brul, Fort Thomas, Ky., assignors to The Miller, Du Brul and Peters Manufacturing Co., Cincinnati, Ohio. Tobacco-feeding mechanism for cigarette-machines. No. 1,164,176; Dec. 14; Gaz. vol. 221; p. 549.
- Du Commun, Louis M., Cleveland, Ohio. Air-conditioning system. No. 1,132,246; Mar. 16; Gaz. vol. 212; p. 913.
- Du Commun, Louis M., Cleveland, Ohio. Air-conditioning system. No. 1,133,371; Mar. 30; Gaz. vol. 212; p. 1405.
- Du Pont, Ernest, assignor to Ball Grain Explosives Company, Wilmington, Del. Process of and apparatus for forming explosive powder into spherical grains. No. 1,162,757; Dec. 7; Gaz. vol. 221; p. 9.
- Du Pont, Francis I., Wilmington, Del. Providing shoe-lacing with tips. No. 1,139,112; May 11; Gaz. vol. 214; p. 528.
- Du Pont, Francis I., Wilmington, Del. Obtaining oxids of nitrogen from atmospheric air. No. 1,147,150; July 20; Gaz. vol. 216; p. 801.
- Du Pont, Francis I., assignor to Ball Grain Explosives Company, Wilmington, Del. Apparatus for testing mining-powder. No. 1,161,462; Nov. 23; Gaz. vol. 220; p. 1209.
- Du Puy, Alfred, Oak Park, Ill. Brush. No. 1,128,667; Feb. 16; Gaz. vol. 211; p. 789.
- Du Rall, Samuel, Cobden, Ill. Rail-joint. No. 1,135,443; Apr. 13; Gaz. vol. 213; p. 526.
- Du Rell, Charles T., Los Angeles, Cal. Mixer and disintegrator. No. 1,157,992; Oct. 19; Gaz. vol. 219; p. 672.
- Dubay, George, Barre, Vt. Holding device for machine-tools. No. 1,149,346; Aug. 10; Gaz. vol. 217; p. 410.
- Dubbs, Jesse A., Los Angeles, Cal., assignor, by mesne assignments, to National Hydrocarbon Company. Treating oil. No. 1,123,502; Jan. 5; Gaz. vol. 210; p. 105.
- Dubbs, Jesse A., Santa Monica, Cal., assignor to National Hydrocarbon Company, Chicago, Ill. Treatment of petroleum. No. 1,135,506; Apr. 13; Gaz. vol. 213; p. 547.
- Dubois, James, and J. E. Jones, Westville, Ill. Railway-switch mechanism. No. 1,140,965; May 25; Gaz. vol. 214; p. 1249.
- Dubois, James, and J. E. Jones, Westville, Ill. Automatic railway-switch. No. 1,140,966; May 25; Gaz. vol. 214; p. 1250.
- Dubois, James, and J. E. Jones, Westville, Ill. Car-coupling. No. 1,161,201; Nov. 23; Gaz. vol. 220; p. 1115.
- Dubois Watch Case Co. (See Depollier, Charles L., assignor.)
- Dubois Watch Case Company. (See Depollier and Duncuff, assignors.)
- Dubrule, Marcien, and N. Doe, Ogdensburg, N. Y. Ship's landing-ladder. No. 1,124,115; Jan. 5; Gaz. vol. 210; p. 311.
- Dubus, Peter A., New Orleans, La. Forming tie-joints. No. 1,141,046; May 25; Gaz. vol. 214; p. 1276.
- Duc, Henry A., Charleston, S. C. Lubricator. No. 1,138,942; May 11; Gaz. vol. 214; p. 467.
- Duc, Henry A., Jr., Charleston, S. C. Steam-condenser. No. 1,139,505; May 18; Gaz. vol. 214; p. 701.
- Ducas, Charles, and H. S. Coleman, assignors to Jacobs-Shupert United States Fire-Box Company, New York, N. Y. Locomotive-boiler. No. 1,143,694; June 22; Gaz. vol. 215; p. 1013.
- Duchez, Jerome M., Sacramento, Cal. Convertible table. No. 1,150,349; Aug. 17; Gaz. vol. 217; p. 831.
- Duchscherer, George, Buffalo, N. Y. Gas heating-radiator. No. 1,151,575; Aug. 31; Gaz. vol. 217; p. 1354.
- Duck, William B., et al. (See Gilligan, Bernard C., assignor.)
- Duckett, James V., Hillside, Colo. Nut-lock. No. 1,153,898; Sept. 21; Gaz. vol. 218; p. 616.
- Duckham, Arthur M., Waseda Highfield, Ashstead, England, assignor to Isbell-Porter Company, Newark, N. J. Vertical retort for the production of gas by the carbonization of coal. No. 1,147,790; July 27; Gaz. vol. 216; p. 1051.
- Duciaux, Jacques, Paris, France. Recovery of formic esters used as solvents of cellulose compounds. No. 1,127,871; Feb. 9; Gaz. vol. 211; p. 465.
- Duco Adding Machine Company, The. (See Meier, Swift, and Reller, assignors.)
- Duda, Stanislaw, Lodi, N. J. Direction-signal for automobiles. No. 1,151,168; Aug. 24; Gaz. vol. 217; p. 1170.
- Dudas, Mihaly. (See Szarka, Mikhal, assignor.)
- Duding, Ralph W., Minneapolis, Minn. Lifting-jack. No. 1,158,903; Nov. 2; Gaz. vol. 220; p. 173.
- Duden, Charlie B., Henryetta, Okla. Fence-wire fastener. No. 1,165,158; Dec. 21; Gaz. vol. 221; p. 934.
- Duden, Paul, and G. Peters, assignors to Farberwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Preparing acetaldehyde from acetylene. No. 1,151,928; Aug. 31; Gaz. vol. 217; p. 1476.
- Duden, Paul, and G. Peters, assignors to Farberwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Preparing acetaldehyde from acetylene. No. 1,151,929; Aug. 31; Gaz. vol. 217; p. 1476.
- Dudgeon, James W. (See Peters and Dudgeon.)
- Dudley, Andrew T., Houston, Tex. Grain-shocking machine. No. 1,159,574; Nov. 9; Gaz. vol. 220; p. 438.
- Dudley, Andrew T., assignor of one-tenth to W. L. and J. H. Mitchell and H. E. Werner, Houston, Tex. Bale-forming press. No. 1,158,654; Nov. 2; Gaz. vol. 220; p. 87.
- Dudley, C. H. (See Siegrist, Henry A., assignor.)
- Dudley, Carol, San Diego, Cal. Cover for trays. No. 1,135,269; Apr. 13; Gaz. vol. 213; p. 464.
- Dudley, Edward F., Oak Park, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism for printing-presses. No. 1,137,957; May 4; Gaz. vol. 214; p. 82.
- Dudley, Frank C., Brooklyn, N. Y. Clinical thermometer. No. 1,145,675; July 6; Gaz. vol. 216; p. 244.
- Dudley, George A. (See Sink and Dudley.)
- Dudley, Job, and H. E. Plastow, assignors of one-third to F. J. Highland, Hamilton, Ontario, Canada. Screw adjusting and locking device. No. 1,153,861; Sept. 14; Gaz. vol. 218; p. 569.
- Dudley, Lyle R., San Francisco, Cal. Shock-absorber. No. 1,125,012; Jan. 12; Gaz. vol. 210; p. 681.
- Dudley, Norman V., Seattle, Wash. Support for clothes-lines and hammocks. No. 1,159,192; Nov. 2; Gaz. vol. 220; p. 273.
- Dudley, Raymond C. (See Carscadin and Woodman, assignors.)
- Dudley, Raymond C., Chicago, Ill. Car-roof. No. 1,133,372; Mar. 30; Gaz. vol. 212; p. 1405.
- Due, Alfred E., Brooklyn, N. Y. Swimming device. No. 1,164,584; Dec. 14; Gaz. vol. 221; p. 690.
- Dueber, Charles E., Winlock, Wash. Vending-machine. No. 1,151,347; Aug. 24; Gaz. vol. 217; p. 1229.
- Dueberg, Helmut F. C., assignor of one-third to E. E. Smith and one-third to W. M. Sloan, Kansas City, Mo. Amusement device. No. 1,131,603; Mar. 9; Gaz. vol. 212; p. 645.
- Duehr, Nicholas J. H., Osmond, Nebr. Bitless bridle. No. 1,135,570; Apr. 13; Gaz. vol. 213; p. 570.
- Duepner, Joseph F., Jr., St. Louis, Mo. Hasp-fastener. No. 1,123,997; Jan. 5; Gaz. vol. 210; p. 270.
- Duerr, Eugene, New York, N. Y. Egg-carrier. No. 1,128,117; Feb. 9; Gaz. vol. 211; p. 550.
- Duerr, Philip F., Alvo, Nebr. Grain-gathering device. No. 1,156,985; Oct. 19; Gaz. vol. 219; p. 634.
- Duey, Otus E., and T. J. Wells, Millsap, Tex. Hydrant. No. 1,164,077; Dec. 14; Gaz. vol. 221; p. 516.
- Dufala, Stefan, Cleveland, Ohio. End-gate for wagons and vehicles. No. 1,125,982; Jan. 26; Gaz. vol. 210; p. 1094.
- Dufay, Louis, Chantilly, France. Selecting-screen for color photography. No. 1,155,900; Oct. 5; Gaz. vol. 219; p. 200.
- Duff, Edward E., Seattle, Wash. Closet attachment. No. 1,137,196; Apr. 27; Gaz. vol. 213; p. 1224.
- Duff, Howard, and H. L. Smith, New York, N. Y. High-water control for multiple-drum boilers. No. 1,159,193; Nov. 2; Gaz. vol. 220; p. 273.
- Duff, John, Philadelphia, Pa. Oil-container. No. 1,149,506; Aug. 10; Gaz. vol. 217; p. 465.
- Duff, John L., Cambridge, Ohio. Non-skid attachment for tires. No. 1,157,928; Oct. 26; Gaz. vol. 219; p. 1027.
- Duff Manufacturing Company, The. (See Alston and Hindman, assignors.)
- Duffe, Frank A., near Moscow, Iowa. Gate-operating means. No. 1,160,393; Nov. 16; Gaz. vol. 220; p. 781.
- Duffek, Josef, assignor to Oesterreichische Waffenfabriks-Gesellschaft, Steyr, Austria-Hungary. Breech-lock for firearms. No. 1,163,516; Dec. 7; Gaz. vol. 221; p. 274.
- Duffer, Louis J. (See Bruet and Duffer.)
- Duffey, Charles T., Cambridge, Ohio. Moving-picture-film reel. No. 1,164,999; Dec. 21; Gaz. vol. 221; p. 877.
- Duffie, John J., Berkeley, assignor to Vacuum Specialty Manufacturing Co., San Francisco, Cal. Vacuum-cleaner. No. 1,133,543; Mar. 30; Gaz. vol. 212; p. 1467.
- Dufin, George S., Hopeston, Ill. Silo-roof construction. No. 1,161,115; Nov. 23; Gaz. vol. 220; p. 1083.
- Duffy, Charles H., Chevy Chase, Md. Calculator. No. 1,161,381; Nov. 23; Gaz. vol. 220; p. 1181.
- Duffy, Charles H., North Laurel, Md., assignor to F. H. Tweed, Chicago, Ill. Compression-coupling. No. 1,143,815; June 22; Gaz. vol. 215; p. 1054.
- Duffy, Charles H., Laurel, Md., assignor to F. H. Tweed, Chicago, Ill. Compression-coupling. No. 1,143,816; June 22; Gaz. vol. 215; p. 1054.

Alphabetical list of patentees—Continued.

- Duffy, David, New York, assignor to J. P. Carlson, Brooklyn, N. Y. Engine-valve. No. 1,142,316; June 8; Gaz. vol. 215; p. 468.
- Duffy, James F. (See Beamer and Duffy.)
- Duffy, James P. B. (See Murphy, Thomas J., assignor.)
- Duffy, John A. (See Benoit, Aime, assignor.)
- Duffy, John S. (See Harper, William P., assignor.)
- Duffy, Mathew D., and B. P. Costello, Cincinnati, Ohio. Machine for grinding pigments. No. 1,154,004; Sept. 21; Gaz. vol. 218; p. 651.
- Duffy, Michael J., New York, N. Y. Milk-bottle. No. 1,146,313; July 13; Gaz. vol. 216; p. 488.
- Duffy, Thomas I., assignor to E. C. Sales Co., Chicago, Ill. Hub for demountable wheels. No. 1,123,713; Jan. 5; Gaz. vol. 210; p. 175.
- Duffy, Thomas I., assignor to E. C. Sales Co., Chicago, Ill. Tire-carrier. No. 1,152,013; Aug. 31; Gaz. vol. 217; p. 1505.
- Duffy, Thomas I., assignor to Ellsworth & Cross, Chicago, Ill. Demountable wheel. No. 1,125,498; Jan. 19; Gaz. vol. 210; p. 889.
- Duffy, Thomas I., assignor of one-half to A. H. Baker, Chicago, Ill. Pedal foot-piece. No. 1,151,766; Aug. 31; Gaz. vol. 217; p. 1419.
- Duffy, Thomas I., Chicago, Ill., assignor, by mesne assignments, to The Weatherproof Construction Company. Supporting and glazing construction for skylights and like structures. No. 1,156,351; Oct. 12; Gaz. vol. 219; p. 380.
- Dufour, Léon, Geneva, Switzerland. Regulating device for hydraulic turbines. No. 1,131,344; Mar. 9; Gaz. vol. 212; p. 554.
- Dufour, Léon, Geneva, Switzerland. Valve-gear of explosion-engines. No. 1,132,247; Mar. 16; Gaz. vol. 212; p. 914.
- Dufourcq, Edward L., New York, N. Y. Treatment of precious-metal ores for extracting their values. No. 1,133,110; Mar. 23; Gaz. vol. 212; p. 1276.
- Dugan, Edward J., Jeannette, Pa. Tire-armor. No. 1,127,744; Feb. 9; Gaz. vol. 211; p. 418.
- Dugan, John H., and M. N. Smith, assignors to The Akron Motor Lock Co., Akron, Ohio. Manifold-valve lock for automobiles. No. 1,157,929; Oct. 26; Gaz. vol. 219; p. 1028.
- Dugan, Peter J. (See Carr and Dugan.)
- Dugan, Samuel A., Galveston, Tex. Locomotive-engine cut-out valve. No. 1,145,757; July 6; Gaz. vol. 216; p. 274.
- Dugan, Thomas, Chicago, Ill. Harvesting-machine. No. 1,127,971; Feb. 9; Gaz. vol. 211; p. 499.
- Dugdale, Edward W., Kearney, N. J. Doors for a chute of a dumb-waiter, elevator, or the like. No. 1,133,794; Mar. 30; Gaz. vol. 212; p. 1557.
- Duggan, Daniel J., Everett, assignor of one-half to S. Cropper, Lowell, Wash. Safety device for boilers. No. 1,129,561; Feb. 23; Gaz. vol. 211; p. 1139.
- Duggan, George J., assignor to Repton, Dickinson & Co., Rutherford, N. J. Firebric syringe. No. 1,166,338; Dec. 28; Gaz. vol. 221; p. 1389.
- Duggan, James F., Atlantic, Mass. Signaling apparatus. No. 1,141,047; May 25; Gaz. vol. 214; p. 1276.
- Duggan, William H. (See McQuillan, Howard, assignor.)
- Dugger, Milton C., Clearwater, Kans. Vehicle-wheel. No. 1,146,314; July 13; Gaz. vol. 216; p. 488.
- Duggins, Stephen A. (See Hooton and Duggins.)
- Dugro, Francis A., New York, N. Y. Means for attaching bombs from flying-machines to other objects. No. 1,146,695; July 13; Gaz. vol. 216; p. 622.
- Duhalde, David, St. Goin, France. Last for boots and shoes. No. 1,165,950; Dec. 28; Gaz. vol. 221; p. 1248.
- Duhan, Maxwell G., New York, N. Y. Protector-advertiser. No. 1,127,872; Feb. 9; Gaz. vol. 211; p. 465.
- Duiven, Jacob, Lugano, Switzerland. Type-writer with electromagnetic thrust. No. 1,142,151; June 8; Gaz. vol. 215; p. 411.
- Duke, Elza W. (See Gay and Duke.)
- Duke, George H., Hotchkiss, Colo. Nut-lock. No. 1,156,279; Oct. 12; Gaz. vol. 219; p. 354.
- Duke, Joseph, Seattle, Wash. Bedstead-joint. No. 1,125,670; Jan. 19; Gaz. vol. 210; p. 951.
- Duke, Joseph A., Tozo, assignor of one-sixth to M. Stacy, Wynne, Ark. Vehicle-brake. No. 1,134,597; Apr. 6; Gaz. vol. 213; p. 187.
- Duke, Salathiel A., Reinbeck, Iowa. Railway-tie. No. 1,145,296; July 6; Gaz. vol. 216; p. 112.
- Dukelow, John E., Chicago, Ill. Spring-frame for bicycles or the like. No. 1,136,870; Apr. 20; Gaz. vol. 213; p. 1070.
- Duket, John J., Toledo, Ohio. Pan-handle and pan-lifter. No. 1,145,060; July 6; Gaz. vol. 216; p. 31.
- Dula, Caleb C., Yonkers, N. Y. Tobacco product. No. 1,144,823; June 29; Gaz. vol. 215; p. 1433.
- Dula, Caleb C., Yonkers, N. Y. Tobacco cartridge and package. No. 1,144,824; June 29; Gaz. vol. 215; p. 1433.
- Dula, Caleb C., Yonkers, N. Y. Smoking tube or implement. No. 1,144,825; June 29; Gaz. vol. 215; p. 1434.
- Dula, Caleb C., Yonkers, N. Y. Tobacco cartridge. No. 1,165,000; Dec. 21; Gaz. vol. 221; p. 878.
- Dula, Robert B., Tarrytown, N. Y. Machine for pressing and finishing plug-tobacco. No. 1,154,913; Sept. 28; Gaz. vol. 218; p. 991.
- Dula, Robert B., Tarrytown, N. Y. Apparatus for pressing and finishing plug-tobacco. No. 1,154,914; Sept. 28; Gaz. vol. 218; p. 991.
- Dulaney, Joseph F. (See Fairles, Elsha J., assignor.)
- Dulgeroff, Atanas P., Granite City, Ill. Puzzle. No. 1,129,281; Feb. 23; Gaz. vol. 211; p. 1040.
- Dulgeroff, Atanas P., Granite City, Ill. Cabinet. No. 1,162,146; Nov. 30; Gaz. vol. 220; p. 1493.
- Dulikovich, Lubomir. (See Ounyskow, Sylvester, assignor.)
- Dulin, Alva, Sibley, Kans. Cuspidor-lifter. No. 1,125,983; Jan. 26; Gaz. vol. 210; p. 1094.
- Dull, Raymond W., Chicago, Ill. Separator. No. 1,155,473; Oct. 5; Gaz. vol. 219; p. 52.
- Dull, Raymond W., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Fuel-lighter. No. 1,164,934; Dec. 21; Gaz. vol. 221; p. 855.
- Dulles-Baldwin Electric Drill Company. (See Baldwin, James H., assignor.)
- Dumars, Horace, Glen Ridge, N. J. Apparatus for producing ozone and separating gases. No. 1,149,254; Aug. 10; Gaz. vol. 217; p. 375.
- Dumas, Joseph J., Paris, France, assignor to Société Anonyme Vellave de la Nouvelle Persienne entôle à nervures J. D. Le Puy, Haute-Loire, France. Machine for corrugating Venetian-blind stock. No. 1,125,984; Jan. 26; Gaz. vol. 210; p. 1095.
- Dumond, Charles M., Cedar Falls, Iowa. Actuating mechanism for washing-machines. No. 1,139,404; May 11; Gaz. vol. 214; p. 628.
- Dumond, Eugene D., Waterloo, Iowa. Delivery device for wringers. No. 1,136,218; Apr. 20; Gaz. vol. 213; p. 838.
- Dumond, Eugene D., Waterloo, Iowa. Rotatable wash-bench. No. 1,163,327; Dec. 7; Gaz. vol. 221; p. 207.
- Dun Lany, William P., Maywood, assignor to Charles W. Shonk Company, Chicago, Ill. Coin-registering mechanism. No. 1,154,239; Sept. 21; Gaz. vol. 218; p. 732.
- Dunasky, Joseph E., Cleveland, Ohio. Ticket-canceller. No. 1,131,492; Mar. 9; Gaz. vol. 212; p. 607.
- Dunaway, Harrison, Trinity, Tex. Lock. No. 1,146,483; July 13; Gaz. vol. 216; p. 551.
- Dunbar, Everett H., Lynn, Mass. Shoe-measuring device. No. 1,161,765; Nov. 23; Gaz. vol. 220; p. 1312.
- Dunbar, Francis W. (See Stanton, Le Roy W., assignor.)
- Dunbar, Francis W., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. No. 1,133,111; Mar. 23; Gaz. vol. 212; p. 1276.
- Dunbar, Francis W., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,133,112; Mar. 23; Gaz. vol. 212; p. 1277.
- Dunbar, Francis W., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,133,113; Mar. 23; Gaz. vol. 212; p. 1278.
- Dunbar, Frank G., Chicago, Ill., assignor to Sargent Company. Rail-anchor. No. 1,144,532; June 29; Gaz. vol. 215; p. 1332.
- Dunbar, Frank H., and J. H. Jones, Cleveland, Ohio. Machine for pressing garments. No. 1,131,493; Mar. 9; Gaz. vol. 212; p. 607.
- Dunbar, G. Edwin. (See Parrish, Homer A., assignor.)
- Dunbar, Harold F., Turners Falls, Mass. Doctor-vibrating device for paper-machines. No. 1,150,423; Aug. 17; Gaz. vol. 217; p. 855.
- Dunbar, Harris T., Buffalo, N. Y. Drag-line bucket. No. 1,132,078; Mar. 16; Gaz. vol. 212; p. 850.
- Dunbar, Harris T., Buffalo, N. Y. Drag-line bucket. No. 1,132,917; Mar. 23; Gaz. vol. 212; p. 1205.
- Dunbar, Howard W., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Cable-terminal. No. 1,126,733; Feb. 2; Gaz. vol. 211; p. 23.
- Dunbar, Karl E., Pittsburgh, Pa. Two-cycle engine. No. 1,123,861; Jan. 5; Gaz. vol. 210; p. 227.
- Dunbar, Mahlon L., assignor to The Rex Extinguisher Company, Inc., Akron, Ohio. Chemical fire-extinguisher. No. 1,158,904; Nov. 2; Gaz. vol. 220; p. 173.
- Dunbar, Oris K., Centerville, Ind. Clamping device. No. 1,128,423; Feb. 16; Gaz. vol. 211; p. 705.
- Dunbar, Oris K., Centerville, Ind. Anchor-drill. No. 1,147,791; July 27; Gaz. vol. 216; p. 1051.
- Dunbar, Oris K., Centerville, Ind. Display-rack. No. 1,150,256; Aug. 17; Gaz. vol. 217; p. 799.
- Dunbar, Wilmer, Greensburg, Pa. Arch for shoes. No. 1,137,387; Apr. 27; Gaz. vol. 213; p. 1295.
- Dunbar, Wilmer, Greensburg, Pa. Vacuum-tread for tires. No. 1,147,149; July 20; Gaz. vol. 216; p. 800.
- Duncan, Albert L., Elmira Heights, N. Y. Attachment for wheeled vehicles. No. 1,162,585; Nov. 30; Gaz. vol. 220; p. 1612.
- Duncan, Arthur L., assignor of one-third to C. E. Forry and one-third to E. H. Duncan, Fruitvale, Cal. Exhauster. No. 1,132,172; Mar. 16; Gaz. vol. 212; p. 885.
- Duncan, Charles A., and G. L. Shoup, assignors to American Carbolite Company, Duluth, Minn. Acetylene-gas generator. No. 1,148,364; July 27; Gaz. vol. 216; p. 1257.
- Duncan, Charles G., assignor of one-half to J. Marston, Los Angeles, Cal. Trap. No. 1,138,943; May 11; Gaz. vol. 214; p. 467.

Alphabetical list of patentees—Continued.

- Duncan, E. H., *et al.* (See Duncan, Arthur L., assignor.)
- Duncan, George, McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Method of and apparatus for removing scale from pipes. No. 1,162,756; Dec. 7; Gaz. vol. 221; p. 8.
- Duncan, Henry J., Alpena, Mich. Handle-machine. No. 1,160,699; Nov. 16; Gaz. vol. 220; p. 894.
- Duncan, James G. (See Tuttle and Duncan.)
- Duncan, John B., Wolf, Wyo. Mushroom-bullet. No. 1,155,901; Oct. 5; Gaz. vol. 219; p. 201.
- Duncan, John C., Benton, Ill. Pressure-gage. No. 1,127,745; Feb. 9; Gaz. vol. 211; p. 418.
- Duncan, John D. E., deceased, East Orange, N. J.; L. E. H. Duncan, executrix. Insulator. No. 1,128,424; Feb. 16; Gaz. vol. 211; p. 705.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing-machine. No. 1,125,499; Jan. 19; Gaz. vol. 210; p. 889.
- Duncan, Lena E. H., executrix. (See Duncan, John D. E.)
- Duncan, Lester C., Lenia, Idaho, assignor of nine-tenths to C. F. Carey, Spokane, and one-tenth to V. A. Greenleaf, Seattle, Wash. Automobile-body. No. 1,139,021; May 11; Gaz. vol. 214; p. 497.
- Duncan, Sylene A., Neshaic, N. J. Detachable handle. No. 1,140,967; May 25; Gaz. vol. 214; p. 1250.
- Duncan, William M. (See Cook, Howard C., assignor.)
- Duncan, William M., Alton, Ill. Furnace-grate. No. 1,132,918; Mar. 23; Gaz. vol. 212; p. 1206.
- Duncan, William M., Alton, Ill. Furnace. No. 1,145,573; July 6; Gaz. vol. 216; p. 208.
- Duncuff, Edward C. (See Depollier and Duncuff.)
- Duncuff, Edward C. (See Depollier and Duncuff.) (Re-issue.)
- Dunderdale, Herbert, Cleveland, Ohio, assignor to Chicago Standard Equipment Company, Chicago, Ill. Ladder. (Reissue.) No. 13,914; May 11; Gaz. vol. 214; p. 653.
- Dundon, Patrick F., San Francisco, Cal. Resilient tire attachment for vehicle-wheels. No. 1,126,424; Jan. 26; Gaz. vol. 210; p. 1253.
- Dundon, Patrick F., San Francisco, Cal. Cradle for log-rafts. No. 1,130,584; Mar. 2; Gaz. vol. 212; p. 260.
- Dundon, Patrick F., San Francisco, Cal. Resilient rim. No. 1,131,223; Mar. 9; Gaz. vol. 212; p. 513.
- Duner, John C., Wheaton, Ill. Sanitary drainage-retaining device for railway-cars. No. 1,158,992; Nov. 2; Gaz. vol. 220; p. 202.
- Duncan, James G., Omaha, Nebr., assignor of one-half to himself, and one-half to C. H. Cook, Oak Park, Ill. Stove. No. 1,154,747; Sept. 28; Gaz. vol. 218; p. 935.
- Duncan, James G., Los Angeles, Cal., assignor of one-half to C. H. Cook, Minneapolis, Minn. Cooking-stove. No. 1,158,655; Nov. 2; Gaz. vol. 220; p. 87.
- Dunham, Andrew A., Bainbridge, N. Y., assignor to Casein Company of America. Desiccated milk product and producing same. No. 1,126,734; Feb. 2; Gaz. vol. 211; p. 24.
- Dunham, Andrew A., Bainbridge, assignor to Casein Company of America, New York, N. Y. Paper-coating composition and making the same. No. 1,141,951; June 8; Gaz. vol. 215; p. 339.
- Dunham, Austin C., Hartford, Conn. Automobile-wheel. No. 1,150,018; Aug. 17; Gaz. vol. 217; p. 713.
- Dunham, Bert G., Rochester, assignor, by mesne assignments, to Western Electric Company, New York, N. Y. Progressively-movable electric switch and controlling mechanism therefor. No. 1,164,271; Dec. 14; Gaz. vol. 221; p. 581.
- Dunham, Charles L., Pennsboro, W. Va. Pipe-tongs. No. 1,158,656; Nov. 2; Gaz. vol. 220; p. 88.
- Dunham, Clayton A., Marshalltown, Iowa. Radiator-trap. No. 1,128,425; Feb. 16; Gaz. vol. 211; p. 706.
- Dunham, Clayton A., Marshalltown, Iowa. Inlet-valve. No. 1,128,426; Feb. 16; Gaz. vol. 211; p. 706.
- Dunham, Clayton A., assignor to C. A. Dunham Co., Inc., Marshalltown, Iowa. Thermostatic controller. (Re-issue.) No. 13,900; Apr. 13; Gaz. vol. 213; p. 713.
- Dunham, Clayton A., assignor to C. A. Dunham Company, Marshalltown, Iowa. Flushing-trap. No. 1,161,202; Nov. 23; Gaz. vol. 220; p. 1116.
- Dunham Company, The. (See Dunham, Wiley J., assignor.) (Reissue.)
- Dunham, Edward R. (See Morrison, Bartholomew J., assignor.)
- Dunham, Floyd S., Peculiar, Mo. Wire fastener and stretcher. No. 1,142,555; June 8; Gaz. vol. 215; p. 553.
- Dunham, George, Unionville, Conn. Metal-shaving machine. No. 1,124,876; Jan. 12; Gaz. vol. 210; p. 633.
- Dunham, George H., Trinidad, Colo. Combination brush and comb. No. 1,127,746; Feb. 9; Gaz. vol. 211; p. 419.
- Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Priming system for internal-combustion engines. No. 1,133,011; Mar. 23; Gaz. vol. 212; p. 1242.
- Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Lubricating system for explosion-engines. No. 1,136,219; Apr. 20; Gaz. vol. 213; p. 838.
- Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Lubricating device for motor transmission mechanism. No. 1,145,007; July 6; Gaz. vol. 216; p. 10.
- Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Gear-pump. No. 1,161,037; Nov. 23; Gaz. vol. 220; p. 1056.
- Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Explosion-engine. No. 1,165,858; Dec. 28; Gaz. vol. 221; p. 1215.
- Dunham, Hermon E., Seattle, Wash. Inspirator for internal-combustion engines. No. 1,143,258; June 15; Gaz. vol. 215; p. 839.
- Dunham, James E., Portland, Oreg. Exterminator. No. 1,153,044; Sept. 7; Gaz. vol. 218; p. 241.
- Dunham, James S., Birmingham, Mich. Delivery-wagon. No. 1,131,045; Mar. 9; Gaz. vol. 212; p. 452.
- Dunham, James W., New York, N. Y. Lamp-shade. No. 1,130,496; Mar. 2; Gaz. vol. 212; p. 231.
- Dunham, James W., New York, N. Y. Stand. No. 1,130,497; Mar. 2; Gaz. vol. 212; p. 231.
- Dunham, Ray E., Berea, Ohio. Demountable roller-section for land-rollers and the like. No. 1,155,304; Sept. 28; Gaz. vol. 218; p. 1122.
- Dunham, Robert C. (See Fisk, Clark F., assignor.)
- Dunham, Rupert F., Bridgeport, Conn. Advertising device. No. 1,138,737; May 11; Gaz. vol. 214; p. 394.
- Dunham, Wiley J., assignor to The Dunham Company, Berea, Ohio. Land roller or pulverizer. (Reissue.) No. 13,921; June 1; Gaz. vol. 215; p. 201.
- Dunham, William G., Mount Vernon, N. Y., assignor to The Noesting Pin Ticket Company, Inc. Pin-ticket. No. 1,152,612; Sept. 7; Gaz. vol. 218; p. 85.
- Dunhill, Alfred, London, England. Tobacco-pipe. No. 1,130,806; Mar. 9; Gaz. vol. 212; p. 371.
- Dunkle, Ralph W., Greenville, Ohio. Signal-horn. No. 1,140,968; May 25; Gaz. vol. 214; p. 1251.
- Dunkleberger, Frank L., West Shelby, N. Y. Bean-harvester. No. 1,130,074; Mar. 2; Gaz. vol. 212; p. 81.
- Dunklee, Emory J., Hackensack, N. J. Machine for re-napping and refinishing cloth. No. 1,164,482; Dec. 14; Gaz. vol. 221; p. 656.
- Dunlap, Albert, San Pablo, Cal. Fly-trap. No. 1,136,414; Apr. 20; Gaz. vol. 213; p. 909.
- Dunlap, Alvin C., Berkeley, Cal. Dumping-trap. No. 1,126,962; Feb. 2; Gaz. vol. 211; p. 104.
- Dunlap, Arthur O., *et al.* (See Turner, John W., assignor.)
- Dunlap, Joseph B., and W. D. Bryan, Tulsa, Okla. Sucker-rod puller. No. 1,147,080; July 20; Gaz. vol. 216; p. 777.
- Dunlap, Joseph B., and W. D. Bryan, Tulsa, Okla. Simplex rod-slip. No. 1,153,772; Sept. 14; Gaz. vol. 218; p. 536.
- Dunlap, Oliver W., Bloomington, Ill. Sanitary mop. No. 1,146,410; July 13; Gaz. vol. 216; p. 522.
- Dunlap, Orle T., *et al.* (See Good, Thomas L., assignor.)
- Dunlap, Thomas E., New Orleans, La. Keyhole-guard. No. 1,140,258; May 18; Gaz. vol. 214; p. 965.
- Dunlap, Ward B., Delaware, Okla. Pasting apparatus. No. 1,165,001; Dec. 21; Gaz. vol. 221; p. 878.
- Dunlap, William A., Pittsburgh, Pa. Metallic shipping-case. No. 1,138,643; May 11; Gaz. vol. 214; p. 360.
- Dunlap, William A., Pittsburgh, Pa. Metallic shipping-case. No. 1,138,644; May 11; Gaz. vol. 214; p. 360.
- Dunlap, William A., Pittsburgh, Pa. Table and like article. No. 1,162,147; Nov. 30; Gaz. vol. 220; p. 1493.
- Dunlap, William A., Pittsburgh, Pa. Table and like article. No. 1,162,148; Nov. 30; Gaz. vol. 220; p. 1494.
- Dunlap, William A., Pittsburgh, Pa. Providing enameled vessels with sealed passageways. No. 1,165,951; Dec. 28; Gaz. vol. 221; p. 1248.
- Dunlap, William A., Pittsburgh, Pa. Enameled metallic vessel. No. 1,165,952; Dec. 28; Gaz. vol. 221; p. 1248.
- Dunlop, Daniel B., Petersburg, Va. Submarine bomb. No. 1,161,636; Nov. 23; Gaz. vol. 220; p. 1268.
- Dunlop, George H., Brisbane, Queensland, Australia. Lining for tunnels and for shafts. No. 1,125,013; Jan. 12; Gaz. vol. 210; p. 681.
- Dunlop, Robert R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Circuit-breaker. No. 1,125,077; Jan. 19; Gaz. vol. 210; p. 738.
- Dunlop Rubber Company, The. (See Wright, Walter, as signor.)
- Dunlop, William F., New York, N. Y. Jaw-prop. No. 1,143,515; June 15; Gaz. vol. 215; p. 926.
- Dunn, Burt E., assignor to Dunn's Whole Milk Buttermilk Company, Inc., Muncie, Ind. Making a whole-milk product. No. 1,143,516; June 15; Gaz. vol. 215; p. 926.
- Dunn, Charles T., Newark, Ohio. Clamping device for paper boxes. No. 1,138,200; May 4; Gaz. vol. 214; p. 168.
- Dunn, Clifford E., Plainfield, N. J. Safety-razor. No. 1,123,714; Jan. 5; Gaz. vol. 210; p. 176.
- Dunn, Edward H., assignor to Kaplan, Frank & Dunn, New York, N. Y. Cap. No. 1,161,637; Nov. 23; Gaz. vol. 220; p. 1269.
- Dunn, Edward L., assignor, by mesne assignments, to Standard Plunger Elevator Company, Worcester, Mass. Elevator driving-gearing. No. 1,150,424; Aug. 17; Gaz. vol. 217; p. 855.
- Dunn, Edward L., assignor, by mesne assignments, to Standard Plunger Elevator Company, Worcester, Mass. Automatic elevator control. No. 1,156,987; Oct. 19; Gaz. vol. 219; p. 634.

Alphabetical list of patentees—Continued.

- Dunn, Edward L., assignor, by mesne assignments, to Standard Plunger Elevator Company, Worcester, Mass. Elevator valve mechanism. No. 1,165,653; Dec. 28; Gaz. vol. 221; p. 1145.
- Dunn, Emanuel W., San Francisco, Cal. Orchard-heater. No. 1,125,014; Jan. 12; Gaz. vol. 210; p. 681.
- Dunn, Emanuel W., San Francisco, Cal. Heater. No. 1,144,699; June 29; Gaz. vol. 215; p. 1389.
- Dunn, Emanuel W., San Francisco, Cal. Orchard-heater. No. 1,165,326; Dec. 21; Gaz. vol. 221; p. 990.
- Dunn, Frank M., and R. G. Kroh, Newton, Iowa. Cold-storage-well system. No. 1,138,547; May 4; Gaz. vol. 214; p. 289.
- Dunn, Frank P., assignor to Computing Cheese Cutter Company, Anderson, Ind. Cheese-cutter. No. 1,139,405; May 11; Gaz. vol. 214; p. 629.
- Dunn, Frank P., Anderson, Ind., assignor, by mesne assignments, to Computing Scale Company, Dayton, Ohio. Scale. (Reissue.) No. 13,995; Oct. 19; Gaz. vol. 219; p. 870.
- Dunn, Frank P., assignor, by mesne assignments, of one-third to A. L. Reed, Anderson, Ind. Stamp-vending machine. No. 1,158,905; Nov. 2; Gaz. vol. 220; p. 173.
- Dunn, Frederick J. (See Holland and Dunn.)
- Dunn, James L., Scotland Neck, N. C. Metal collar-pad. No. 1,136,780; Apr. 20; Gaz. vol. 213; p. 1038.
- Dunn, Jay E. (See Heinrich and Dunn.)
- Dunn, John E., Hawthorne, Colo. Safety attachment for elevators. No. 1,151,094; Aug. 24; Gaz. vol. 217; p. 1144.
- Dunn, John S., and C. A. Weiss, New Orleans, La. Dose-indicator. No. 1,129,384; Feb. 23; Gaz. vol. 211; p. 1077.
- Dunn, Joseph, Birmingham, England. Direction-indicator for motor and other vehicles. No. 1,142,505; June 8; Gaz. vol. 215; p. 537.
- Dunn, Joseph F., New York, N. Y. Electric-switch operator. No. 1,146,485; July 13; Gaz. vol. 216; p. 551.
- Dunn, Leon S. (See Guelff, Dunn, and Thenls.)
- Dunn, Louise M., Cleveland, Ohio. Color-chart. No. 1,125,078; Jan. 19; Gaz. vol. 210; p. 739.
- Dunn, Sola B., Chicago, Ill. Veterinary instrument. No. 1,149,562; Aug. 10; Gaz. vol. 217; p. 485.
- Dunn, Sola B., Chicago, Ill. Speculum. No. 1,154,748; Sept. 28; Gaz. vol. 218; p. 935.
- Dunn, Walter C. (See Saunders, James, assignor.)
- Dunn, William A., Duluth, Minn. Rolling-mill. No. 1,156,986; Oct. 19; Gaz. vol. 219; p. 634.
- Dunn, William J., and H. B. Taylor, Montreal, Quebec, Canada. Wall-paper pasting and trimming apparatus. No. 1,131,685; Mar. 16; Gaz. vol. 212; p. 708.
- Dunn's Whole Milk Buttermilk Company. (See Dunn, Burt E., assignor.)
- Dunne, James, London, England. Office-desk and the like. No. 1,143,259; June 15; Gaz. vol. 215; p. 839.
- Dunnebacke, Anthony F., and C. H. Haag, Kenosha, Wis. Billiard-cue. No. 1,145,127; July 6; Gaz. vol. 216; p. 54.
- Dünneberg, Max, and A. Winkler, Neuwied-on-the-Rhine, Germany. Apparatus for feeding blanks. No. 1,153,296; Sept. 14; Gaz. vol. 218; p. 866.
- Dünneberg, Max, and A. Winkler, Neuwied-on-the-Rhine, Germany, assignors to A. J. Wantzen, London, England. Envelop-making machine. No. 1,153,293; Sept. 14; Gaz. vol. 218; p. 865.
- Dünneberg, Max, and A. Winkler, Neuwied-on-the-Rhine, Germany, assignors to A. J. Wantzen, London, England. Delivery and counting mechanism. No. 1,153,294; Sept. 14; Gaz. vol. 218; p. 865.
- Dünneberg, Max, and A. Winkler, Neuwied-on-the-Rhine, Germany, assignors to A. J. Wantzen, London, England. Sheet-feeding mechanism. No. 1,153,295; Sept. 14; Gaz. vol. 218; p. 866.
- Dunnell, Carl N. (See Cummings, Charles W., assignor.)
- Dunner, Julius, New York, N. Y. Cranking device. No. 1,143,517; June 15; Gaz. vol. 215; p. 926.
- Dunner, Julius, New York, N. Y. Safety tap and reamer wrench. No. 1,165,159; Dec. 21; Gaz. vol. 221; p. 934.
- Dunnet, Robert H., Brooklyn, N. Y. Fountain-dividing equipment for multicolor presswork. No. 1,165,160; Dec. 21; Gaz. vol. 221; p. 935.
- Dunning, Harry C., et al. (See Wise, Alvira F., assignor.)
- Dunning, Virgil R., Oshawa, Minn. Tractor for harvesters and the like. No. 1,148,505; Aug. 3; Gaz. vol. 217; p. 7.
- Dunnoch, John L., Baltimore, Md. Bottle-closure. No. 1,158,462; Nov. 2; Gaz. vol. 220; p. 18.
- Dunnock, Alonzo G., Stockton, Kans. Draft-equalizer. No. 1,123,998; Jan. 5; Gaz. vol. 210; p. 270.
- Dunnock, Alonzo G., Stockton, Kans. Draft-equalizer. No. 1,154,104; Sept. 21; Gaz. vol. 218; p. 636.
- Dunseath, Robert, New York, N. Y. Collapsible and interchangeable block. No. 1,146,411; July 13; Gaz. vol. 216; p. 522.
- Dunster, George, Hamilton, Ontario, Canada. Steam-boiler. No. 1,151,348; Aug. 24; Gaz. vol. 217; p. 1230.
- Duntley, Joseph L., Lynn, Mass. Window-screen. No. 1,159,194; Nov. 2; Gaz. vol. 220; p. 273.
- Dunton, George E., New York, N. Y. Backing up electrotype-shells in the manufacture of electrotype printing-plates. No. 1,125,671; Jan. 19; Gaz. vol. 210; p. 952.
- Dunton, George E., New York, N. Y. Apparatus for backing up electrotype-shells. No. 1,125,672; Jan. 19; Gaz. vol. 210; p. 952.
- Dunton, George E., New York, N. Y. Treating molds used in the art of electrotyping. No. 1,128,427; Feb. 16; Gaz. vol. 211; p. 706.
- Dunton, George E., New York, N. Y. Apparatus for treating molds used in electrotyping. No. 1,128,666; Feb. 16; Gaz. vol. 211; p. 789.
- Dunton, George E., New York, N. Y. Apparatus for backing up electrotype-shells in the art of electrotyping. No. 1,164,078; Dec. 14; Gaz. vol. 221; p. 517.
- Dunton, George E., New York, N. Y. Backing up electrotype-shells in the art of electrotyping. No. 1,164,079; Dec. 14; Gaz. vol. 221; p. 517.
- Dunton, John C., Grand Rapids, Mich. Woodworking-machine. No. 1,159,909; Nov. 9; Gaz. vol. 220; p. 560.
- Dunwoody, Henry H. C., Washington, D. C. Armor-piercing shell. No. 1,146,484; July 13; Gaz. vol. 216; p. 551.
- Dunwoody, Henry H. C., Washington, D. C. Shell or projectile. No. 1,150,667; Aug. 17; Gaz. vol. 217; p. 940.
- Dunwoody, Henry H. C., Washington, D. C. Contour-cap for projectiles. No. 1,153,425; Sept. 14; Gaz. vol. 218; p. 415.
- Dupell, Alonzo E., New York, N. Y. Detachable fitting for syringes. No. 1,145,758; July 6; Gaz. vol. 216; p. 274.
- Duplantis, Curtis. (See Duplantis, Willard and C.)
- Duplantis, Gaston A., assignor to L. C. Moise, Covington, La. Wrench. No. 1,137,709; Apr. 27; Gaz. vol. 213; p. 1401.
- Duplantis, Willard and C., New Orleans, La. Rat-trap. No. 1,164,483; Dec. 14; Gaz. vol. 221; p. 657.
- Duplex Electric Company. (See Williams, John P., assignor.)
- Duplex Metallic Company. (See Monnot, John F., assignor.)
- Duplex Metals Company, The. (See Page and Tassin, assignors.)
- Duplex Molding Sander Company. (See Prims and Smith, assignors.)
- Duplex Printing Press Company. (See Bechman, Henry P., assignor.)
- Duplex Steam Trap Manufacturing Company. (See Wilcox and Rakestraw, assignors.)
- Duplex Vending Machine Company. (See Hartman, Hans, assignor.)
- Duplicator Manufacturing Company. (See Flanagan, John J., assignor.)
- Dupont, Arthur J., Adams, Mass. Flash-light. No. 1,132,173; Mar. 16; Gaz. vol. 212; p. 885.
- Dupree, Samuel F., Jr., G. Ritter, and A. Heckman, Wilkesburg, Pa. Top-operating mechanism for automobiles. No. 1,143,260; June 15; Gaz. vol. 215; p. 839.
- Dupuis, Charles, Charenton, France. Portable apparatus for projecting stationary or animated pictures. No. 1,137,958; May 4; Gaz. vol. 214; p. 83.
- Dupuis, Moses, assignor to Allen-Higgins Wall Paper Company, Worcester, Mass. Machine for printing fabrics. No. 1,153,045; Sept. 7; Gaz. vol. 218; p. 241.
- Dupuis, Moses, assignor to Allen-Higgins Wall Paper Company, Worcester, Mass. Machine for printing fabrics. No. 1,153,046; Sept. 7; Gaz. vol. 218; p. 242.
- Dupuis, Noël, Aberdeen, Wash. Marine governor. No. 1,154,105; Sept. 21; Gaz. vol. 218; p. 687.
- Dupuy, Arthur O., assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Conveying mechanism. No. 1,123,999; Jan. 5; Gaz. vol. 210; p. 271.
- Dupuy, John W., Pittsburgh, Pa. Stove. No. 1,156,066; Oct. 12; Gaz. vol. 219; p. 284.
- Duquesne Sales Company. (See Bearke, Louis K., assignor.)
- Duquet, Louis G. (See Pache, Auguste, assignor.)
- Duquette, Oliver. (See Pratt, Eli, assignor.)
- Durand, Gilbert, et al. (See Doren, Lewis W., assignor.)
- Durand, Louis P., et al. (See Doren, Lewis W., assignor.)
- Durand, Nelson C. (See Holland and Durand.)
- Durand, William L., New York, N. Y. Fountain-pen. No. 1,145,472; July 6; Gaz. vol. 216; p. 175.
- Durbin Automatic Train Pipe Connector Company. (See Durbin, Votaw S., assignor.)
- Durbin, Nathan, Taylorville, Ill. Splice-bar. No. 1,132,312; Mar. 16; Gaz. vol. 212; p. 938.
- Durbin, Votaw S., assignor to Durbin Automatic Train Pipe Connector Company, St. Louis, Mo. Automatic train-pipe coupling. No. 1,138,359; May 4; Gaz. vol. 214; p. 225.
- Durepo, Joseph H., Presque Isle, Me. Concrete-mixer. No. 1,154,295; Sept. 21; Gaz. vol. 218; p. 751.
- Durfee Embalming Fluid Co. (See Brown and Sincclair, assignors.)
- Durfee, Roland D., Litchfield, Mich. Pump-valve. No. 1,151,449; Aug. 24; Gaz. vol. 217; p. 1262.
- Durga, Myron B., Centralia, Wash. Valve-grinding apparatus. No. 1,126,735; Feb. 2; Gaz. vol. 211; p. 24.
- Durgin, Arthur F., Haverhill, Mass. Non-slipping shoe. No. 1,123,503; Jan. 5; Gaz. vol. 210; p. 105.
- Durgin, William R., et al. (See Swikard, Edward L., assignor.)
- Durham Duplex Razor Company. (See Sheehan, Thomas C., assignor.)

Alphabetical list of patents—Continued.

- Durham, George, and C. W. McGuirk, Scranton, Pa. Apparatus for cleaning surfaces. No. 1,135,001; Apr. 13; Gaz. vol. 213; p. 372.
- Durham, J. Edward. (See Baker, Joseph G., assignor.)
- Durham, Lillie C. (See Faltin, William, assignor.)
- Durham, William T., Ridge Spring, S. C. Coupling-link. No. 1,124,877; Jan. 12; Gaz. vol. 210; p. 633.
- Durkee, Milan M., Lawton, Okla. Trapping device. No. 1,160,269; Nov. 16; Gaz. vol. 220; p. 739.
- Durr, Ernest, U. S. Navy. Device for saving torpedoes. No. 1,130,585; Mar. 2; Gaz. vol. 212; p. 261.
- Dürr, Max, Friedenau, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. Electrical instrument for electrically transmitting indications. No. 1,146,486; July 13; Gaz. vol. 216; p. 551.
- Durrant, George. (See Cook and Durrant.)
- Durrant, Oliver R., Oshawa, Ontario, Ontario. Simultaneously peeling and slicing potatoes. No. 1,151,674; Aug. 31; Gaz. vol. 217; p. 1387.
- Durst, Ora L., Indianapolis, Ind. Bed-spring. No. 1,131,346; Mar. 9; Gaz. vol. 212; p. 555.
- Duryea, Charles E., Reading, Pa. Internal-combustion engine. No. 1,128,957; Feb. 16; Gaz. vol. 211; p. 893.
- Duryea, Charles E., Reading, Pa. Internal-combustion engine. No. 1,128,958; Feb. 16; Gaz. vol. 211; p. 893.
- Duryea, Charles E., Saginaw, Mich. Motor-vehicle. No. 1,149,431; Aug. 10; Gaz. vol. 217; p. 440.
- Duryea, Charles E., Saginaw, Mich. Cooling system for motors. No. 1,156,067; Oct. 12; Gaz. vol. 219; p. 284.
- Duryea, James F., Springfield, assignor to Stevens-Duryea Company, Chicopee Falls, Mass. Automobile-hood. No. 1,130,262; Mar. 2; Gaz. vol. 212; p. 145.
- Duryea, James F., Springfield, assignor to Stevens-Duryea Company, Chicopee Falls, Mass. Steering-wheel construction for automobiles. No. 1,130,263; Mar. 2; Gaz. vol. 212; p. 146.
- Duryea, James F., Springfield, assignor to Stevens-Duryea Company, Chicopee Falls, Mass. Carbureter. No. 1,135,270; Apr. 13; Gaz. vol. 213; p. 464.
- Duryee, Edward. (See Cole and Duryee.)
- Duryee, Edward, Los Angeles, Cal. Gypsum plaster and retarder therefor. No. 1,151,095; Aug. 24; Gaz. vol. 217; p. 1144.
- Duschmitz, Willibald, Vienna, Austria-Hungary. Brake-shoe. No. 1,143,518; June 15; Gaz. vol. 215; p. 927.
- Dusenberry, James D., *et al.* (See Beatty, Wallace A., assignor.)
- Dussaud, Charles F., Paris, France. Projection apparatus. No. 1,150,350; Aug. 17; Gaz. vol. 217; p. 831.
- Dusseau, Cornelius J., Toledo, Ohio. Dish-washer. No. 1,123,260; Jan. 5; Gaz. vol. 210; p. 19.
- Dust Sprayer Manufacturing Company. (See Johnson, Charles E., assignor.)
- Dustin, Ernest G., Kewanee, Ill. Fastener. No. 1,131,347; Mar. 9; Gaz. vol. 212; p. 556.
- Dustman, William L., North Yakima, Wash., assignor to R. Wachsmith, Truck. No. 1,142,944; June 15; Gaz. vol. 215; p. 727.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,125,673; Jan. 19; Gaz. vol. 210; p. 952.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,137,588; Apr. 27; Gaz. vol. 213; p. 1363.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,137,589; Apr. 27; Gaz. vol. 213; p. 1363.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Fiber-case railway-torpedo. No. 1,137,710; Apr. 27; Gaz. vol. 213; p. 1402.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,153,047; Sept. 7; Gaz. vol. 218; p. 242.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Fiber-case railway-torpedo. No. 1,153,048; Sept. 7; Gaz. vol. 218; p. 243.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,158,993; Nov. 2; Gaz. vol. 220; p. 203.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,158,994; Nov. 2; Gaz. vol. 220; p. 203.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,161,638; Nov. 23; Gaz. vol. 220; p. 1269.
- Dutcher, Frank, Versailles, Pa., assignor of one-half to A. S. Pattison, Washington, D. C. Shell for dynamite or other explosives. No. 1,147,622; July 20; Gaz. vol. 216; p. 967.
- Dutcher, George B., Jackson, Mich. Feed mechanism for gas-generators. No. 1,126,736; Feb. 2; Gaz. vol. 211; p. 24.
- Dutchess Tool Company. (See Van Houten, Frank H., Jr., assignor.)
- Dutro, Leslie C., assignor of one-half to W. A. Zetsche, Pocatello, Idaho. Oil-cup. No. 1,162,586; Nov. 30; Gaz. vol. 220; p. 1642.
- Dutrow, John J., Westminster, Md. Attachment for potato-planters. No. 1,128,236; Feb. 9; Gaz. vol. 211; p. 591.
- Dutschke, Hermann, Elberfeld, Germany. Satinizing cotton fabrics. No. 1,132,001; Mar. 16; Gaz. vol. 212; p. 823.
- Dutton, Chauncey N., New York, N. Y. Power-transmission apparatus. No. 1,138,094; May 4; Gaz. vol. 214; p. 131.
- Dutton, Francis B., and B. E. McKechnie, Lebanon, assignors to Pennsylvania Steel Company, Philadelphia, Pa. Magnetic separation of ore. No. 1,146,140; July 13; Gaz. vol. 216; p. 428.
- Dutton, Francis B., and B. E. McKechnie, Lebanon, assignors to Pennsylvania Steel Company, Philadelphia, Pa. Magnetic separator. No. 1,146,141; July 13; Gaz. vol. 216; p. 428.
- Dutton, Frank Q., assignor of one-third to E. G. Kolb, Philadelphia, Pa. Telephone. No. 1,125,823; Jan. 19; Gaz. vol. 210; p. 1005.
- Duus, Charles E., South Belgravia, London, England. Folding hood or canopy. No. 1,165,233; Dec. 21; Gaz. vol. 221; p. 961.
- Duval, Allen, Bastrop, assignor of one-fifth to H. B. Combs, one-fifth to J. E. Olive, and one-fifth to P. D. Page, Bastrop county, Tex. Car-replacer. No. 1,135,882; Apr. 13; Gaz. vol. 213; p. 679.
- Duval, John, Grand Junction, Colo. Speed-drill. No. 1,148,365; July 27; Gaz. vol. 216; p. 1258.
- Duval, Hugo G., New York, N. Y. Binder. No. 1,130,893; Mar. 9; Gaz. vol. 212; p. 401.
- Duval, Ruben, Scammon, Kans. Rail-tie. No. 1,147,623; July 20; Gaz. vol. 216; p. 967.
- Duval, James, Camas, Wash. Pneumatic feeder for presses. No. 1,164,585; Dec. 14; Gaz. vol. 221; p. 690.
- Duval, James, Camas, Wash. Roll-tightening machine. No. 1,164,586; Dec. 14; Gaz. vol. 221; p. 691.
- Duval, James, Camas, Wash. Diamond-forming means of paper-bag machines. No. 1,165,765; Dec. 28; Gaz. vol. 221; p. 1185.
- Duvelius, Walter S., Cincinnati, Ohio. Device for applying pressure. No. 1,149,037; Aug. 3; Gaz. vol. 217; p. 195.
- Dwiggins Wire Fence Company. (See Swank, Lafe, assignor.)
- Dwight, Herbert B. (See Rozell and Dwight.)
- Dwight & Lloyd Metallurgical Company. (See Meyer, Franz, assignor.)
- Dwofsky, Bernard, and S. Sambar, Newark, N. J. Heating apparatus. No. 1,144,533; June 29; Gaz. vol. 215; p. 1332.
- Dworak, August, Stuttgart, Germany. Pamphlet-covering machine. No. 1,141,785; June 1; Gaz. vol. 215; p. 245.
- Dwyer, Richard B., assignor of one-half to C. E. Ball, West Duluth, Minn. Hinge. No. 1,145,759; July 6; Gaz. vol. 216; p. 274.
- Dyba, Martin, Oakdale, Iowa. Nut-lock. No. 1,134,520; Apr. 6; Gaz. vol. 213; p. 160.
- Dyblie, Julius A., Joliet, Ill. Method and apparatus for tempering metals. No. 1,151,675; Aug. 31; Gaz. vol. 217; p. 1388.
- Dyer, Frank G., Yazoo City, Miss. Sample-case for salesmen. No. 1,126,425; Jan. 26; Gaz. vol. 210; p. 1254.
- Dyer, Frank L., *et al.* (See Pierman, Alexander N., assignor.)
- Dyer, Frank L., Montclair, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-reproducer. No. 1,127,873; Feb. 9; Gaz. vol. 211; p. 465.
- Dyer, Harry W., East Orange, N. J., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y. Revolving door. No. 1,159,367; Nov. 9; Gaz. vol. 220; p. 365.
- Dyer, John B., and G. A. Johnstone, Anderson, Ind. System for electrical distribution. No. 1,150,019; Aug. 17; Gaz. vol. 217; p. 713.
- Dyer, Leonard H. (See Nelson and Dyer.)
- Dyer, Leonard H., *et al.* (See Pierman, Alexander N., assignor.)
- Dyer, Leonard H., Greenwich, Conn. Flying-machine. No. 1,165,580; Dec. 28; Gaz. vol. 221; p. 1118.
- Dyer, Leonard H., Greenwich, Conn., assignor to Enterprize Automobile Company, Hoboken, N. J. Motor-vehicle. No. 1,125,079; Jan. 19; Gaz. vol. 210; p. 739.
- Dyer, Leonard H., Greenwich, assignor to Enterprize Automobile Company, Hoboken, N. J. Motor-vehicle. No. 1,139,853; May 18; Gaz. vol. 214; p. 823.
- Dyer, Newell V., Holbrook, Mass. Skiving-machine. No. 1,138,645; May 11; Gaz. vol. 214; p. 360.
- Dyer, Philip S., *et al.* (See Slaght and Miller, assignors.)
- Dyer, Richard N., *et al.* (See Slaght and Miller, assignors.)
- Dyer, Samuel, Inglewood, Cal. Automatic drinking-fountain. No. 1,131,046; Mar. 9; Gaz. vol. 212; p. 453.
- Dyer, William E. L., and D. E. Blair, Montreal, Quebec, Canada. Track-scraper. No. 1,144,826; June 29; Gaz. vol. 215; p. 1434.
- Dyert, Charles H., Rochester, N. Y., assignor to D. & H. Manufacturing Jewelers Inc. Sieve-holder. No. 1,144,113; June 22; Gaz. vol. 215; p. 1160.
- Dyke, Darrell F. (See Seng and Dyke.)
- Dyke, Darrell F., assignor to Pullman Couch Company, Chicago, Ill. Sofa-bed. No. 1,127,874; Feb. 9; Gaz. vol. 211; p. 466.

- Dyke, Darrell F., assignor to The Seng Company, Chicago, Ill. Bedstead-corner fastening. No. 1,137,260; Apr. 27; Gaz. vol. 213; p. 1249.
- Dyke, Darrell F., assignor, by mesne assignments, to The Clemens Company, Chicago, Ill. Type-writer support for desks. No. 1,137,261; Apr. 27; Gaz. vol. 213; p. 1249.
- Dykes, James, New Rockford, N. D. Load-trimmer. No. 1,144,179; June 22; Gaz. vol. 215; p. 1184.
- Dykhuizen, Elko B., *et al.* (See Elzas, Martin, assignor.)
- Dymock, Arthur, Stockport, England, assignor to American Coretwin Company, Boston, Mass. Paper twine. No. 1,165,953; Dec. 28; Gaz. vol. 221; p. 1249.
- Dynes, George, Verschoyle, Ontario, Canada. Watertrough. No. 1,149,507; Aug. 10; Gaz. vol. 217; p. 466.
- Dysart, Birney, St. Louis, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding-machine. No. 1,145,574; July 6; Gaz. vol. 216; p. 208.
- Dysart, Marby P., San Angelo, Tex. Resilient wheel. No. 1,129,654; Feb. 23; Gaz. vol. 211; p. 1170.
- Dyson, Alfred H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Semi-automatic telephone system. No. 1,126,963; Feb. 2; Gaz. vol. 211; p. 104.
- Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,144,407; June 29; Gaz. vol. 215; p. 1290.
- Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company. Telephone system. No. 1,148,665; Aug. 3; Gaz. vol. 217; p. 65.
- Dyson, Alfred H., New York, N. Y., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,153,542; Sept. 14; Gaz. vol. 218; p. 457.
- Dyson, Alfred H., Montclair, N. J., assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,163,899; Dec. 14; Gaz. vol. 221; p. 453.
- Dyson, Alfred H., Montclair, N. J., assignor to Western Electric Company. Telephone system. No. 1,163,900; Dec. 14; Gaz. vol. 221; p. 453.
- Dyson, Harry. (See Gaunt and Dyson.)
- Dyson, Joseph L., Loyalton, Cal. Well-drilling apparatus. No. 1,148,366; July 27; Gaz. vol. 216; p. 1258.
- E. Clemens Horst Co. (See Horst, Emil C., assignor.)
- E. De Haën, Chemische Fabrik List, G. m. b. H. (See Baezner, Carlo, assignor.)
- E. Goldman & Co. (See Paul, John T. H., assignor.)
- E. Horton & Son Company. (See Morrow, Alexander P., assignor.)
- E. Horton & Son Company. (See Van Ness, Henry E., assignor.)
- E. Ingraham Co., The. (See Ames, Bliss C., assignor.)
- E. A. Whitehouse Mfg. Co. (See Ehrlich, Frederick W., assignor.)
- E. B. Hayes Machine Company. (See Frantz, John R., assignor.)
- E. & B. Holmes Machinery Co. (See Begler, Edwin F., assignor.)
- E. B. L. Shoe Mfg. Co. (See Loewenbach and Hunter, assignors.)
- E. C. Sales Co. (See Duffy, Thomas I., assignor.)
- E. C. Tecktonius Manufacturing Co. (See Vogt, Anton, assignor.)
- E. D. Hale Manufacturing Company. (See Hale, Elbert D., assignor.)
- E. G. Staude Manufacturing Company. (See Staude, Edwin G., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Beers, Frank T., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Gallup, Frederick L., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Hibbert, Harold, assignor.)
- E. I. du Pont de Nemours Powder Company. (See Holmes, Fletcher B., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Kniffen, Frederick, assignor.)
- E. I. du Pont de Nemours Powder Company. (See Main, Walter L., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Matheson, Howard W., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Peacock, Samuel, assignor.)
- E. I. du Pont de Nemours Powder Company. (See Sparre, Fin, assignor.)
- E. I. du Pont de Nemours Powder Company. (See Sparre and Masland, assignors.)
- E. I. du Pont de Nemours Powder Company. (See Stine, Charles M., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Wöhler, Lothar, assignor.)
- E. I. du Pont de Nemours Powder Company. (See Woodbury, Clifford A., assignor.)
- E. J. Brooks & Co. (See Brooks, Winfred M., assignor.)
- E. J. Manville Machine Company, The. (See Brennan, Charles T., assignor.)
- E. J. Manville Machine Company, The. (See Gaess, Albert H., assignor.)
- E. L. Mansure Company. (See Brassell, William E., assignor.)
- E. L. Webb & Co. (See Swem, Lawrence W., assignor.)
- E. R. Knott Machine Company. (See Knott, Eustace R., assignor.)
- E. R. Squibb & Sons. (See Hereth, Frank S., assignor.)
- E. R. Squibb & Sons Research & Biological Laboratories. (See Park, William H., assignor.)
- E. & T. Fairbanks & Company. (See Bousfield, John H. A., assignor.)
- E. and T. Fairbanks and Company. (See Hazen, Perley F., assignor.)
- E. & T. Fairbanks & Company. (See Jenkins, John L., assignor.)
- E. W. Bliss Company. (See Dieter, William, assignor.)
- E. W. Bliss Company. (See Klocke, William, assignor.)
- E. W. Bliss Company. (See Kruse, Peter, assignor.)
- E. W. Bliss Company. (See Leavitt, Frank M., assignor.)
- E. W. Bliss Company. (See Page, Frank C. B., assignor.)
- E. & Z. Van Raalte. (See Van Raalte, Benjamin, assignor.)
- Eade, John E., Providence, R. I. Chain switch-pull for electric lights. No. 1,148,299; July 27; Gaz. vol. 216; p. 1232.
- Eagan, John J., New York, N. Y. Valve-spring compressor. No. 1,138,462; May 4; Gaz. vol. 214; p. 261.
- Eagan, William H., Grand Rapids, Mich. Attachment for agricultural forks. No. 1,142,783; June 8; Gaz. vol. 215; p. 632.
- Eager, Frank L., Waterbury, Conn. Contactor. No. 1,138,853; May 11; Gaz. vol. 214; p. 437.
- Eager, Fredrick W., Winthrop, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Hold-down for lasting-machines. No. 1,142,152; June 8; Gaz. vol. 215; p. 411.
- Eagle Pencil Company. (See Boman, Claes W., assignor.)
- Eagle Pencil Company. (See Kraus, Samuel, assignor.)
- Eagle Tannery *et al.* (See Gerrish, Oliver, assignor.)
- Eagle Wagon Works, The. (See Underhill, Walter A., assignor.)
- Eagle Wagon Works, The. (See Underhill and Avery, assignors.)
- Eaglesham, James. (See Galbraith and Eaglesham.)
- Eaken, Dwight A., assignor of one-half to H. M. Myers, Lodi, Ohio. Tire-saver. No. 1,160,700; Nov. 16; Gaz. vol. 220; p. 894.
- Eakin, Le Roy. (See Dale, Fred H., assignor.)
- Eakin, William O., assignor of one-half to H. J. Hert, Indianapolis, Ind. Vehicle-top. No. 1,151,930; Aug. 31; Gaz. vol. 217; p. 1476.
- Eales, Irving L., *et al.* (See Neller, Albert H., assignor.)
- Eames, George M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,155,051; Sept. 28; Gaz. vol. 218; p. 1038.
- Eames, George M., and J. S. Finch, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Over-seaming sewing-machine. No. 1,133,012; Mar. 23; Gaz. vol. 212; p. 1242.
- Eames, George M., and J. S. Finch, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Sewing-machine. No. 1,155,050; Sept. 28; Gaz. vol. 218; p. 1037.
- Eames, George M., and J. S. Finch, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Over-seaming sewing-machine. No. 1,155,052; Sept. 28; Gaz. vol. 218; p. 1038.
- Ean, Albert J., New York, N. Y. Mop. No. 1,131,348; Mar. 9; Gaz. vol. 212; p. 536.
- Eargle, John J., Newberry, S. C. Cotton chopper and cultivator. No. 1,166,195; Dec. 28; Gaz. vol. 221; p. 1337.
- Earl, John L., Morgan City, La. Combination-tool for carpenters' use. No. 1,157,514; Oct. 19; Gaz. vol. 219; p. 821.
- Earl, John L., assignor of seven-eighths to H. M. Cotten, Morgan City, La. Electromagnetic brake. No. 1,148,157; July 27; Gaz. vol. 216; p. 1183.
- Earl & Wilson. (See Temple, John, assignor.)
- Earle, Edward, assignor of one-fourth to J. D. Locke, Philadelphia, Pa. Doweling device. No. 1,153,841; Sept. 14; Gaz. vol. 218; p. 561.
- Earle, Hardman A., London, and P. W. Drnitt, county of Surrey, England. Apparatus for composing and casting type. No. 1,153,049; Sept. 7; Gaz. vol. 218; p. 243.
- Earle, Harry C., assignor to Walworth Manufacturing Company, Boston, Mass. Wrench. No. 1,134,948; Apr. 6; Gaz. vol. 213; p. 308.
- Earle, Oliver K., and F. J. Madden, assignors to Economy Gas Valve Company, Minneapolis, Minn. Gas-burner. No. 1,129,080; Feb. 23; Gaz. vol. 211; p. 970.
- Earle, Richard T., Portland, Oreg. Fuel-oil burner. No. 1,124,399; Jan. 12; Gaz. vol. 210; p. 460.
- Earle, Stanley B. (See Cooper and Earle.)
- Earle, Victor M., New York, N. Y. Story-picture device. No. 1,131,494; Mar. 9; Gaz. vol. 212; p. 607.
- Earl, Charles I., New York, N. Y. Spring. No. 1,138,738; May 11; Gaz. vol. 214; p. 395.
- Earl, David S., Syracuse, N. Y. Combined track-gage and rail-fastener. No. 1,128,668; Feb. 16; Gaz. vol. 211; p. 790.
- Early, Allen, Amarillo, Tex. Rope guide and protector. No. 1,147,792; July 27; Gaz. vol. 216; p. 1052.

Alphabetical list of patentees—Continued.

- Early, Bartholomew F., Lowell, Mass. Vehicle-wheel. No. 1,132,462; Mar. 16; Gaz. vol. 212; p. 990.
- Early, Charles L., Sac City, Iowa. Sun-dial and locometer. No. 1,146,412; July 13; Gaz. vol. 216; p. 523.
- Early, James W., assignor to one-half to R. P. Stewart, Deadwood, S. D. Film-guide for moving-picture machines. No. 1,129,341; Feb. 23; Gaz. vol. 211; p. 1061.
- Early, John M. (See Early, William J., assignor.)
- Early, Joseph N., New York, N. Y. Street-sign. No. 1,157,515; Oct. 19; Gaz. vol. 219; p. 822.
- Early, William J., assignor of one-half to J. M. Early, Catawissa, Mo. Grave-mound frame. No. 1,157,516; Oct. 19; Gaz. vol. 219; p. 823.
- Earnheart, William P., Indianapolis, Ind. Liquid-serving device. No. 1,131,495; Mar. 9; Gaz. vol. 212; p. 608.
- Earnshaw, George F., assignor to Earnshaw Knitting Company, Chicago, Ill. Infant's undergarment. No. 1,125,985; Jan. 26; Gaz. vol. 210; p. 1095.
- Earnshaw Knitting Company. (See Earnshaw, George F., assignor.)
- Earnshaw, Richard, Goole, England. Automatic outlet-valve for ships' life-boats. No. 1,125,824; Jan. 19; Gaz. vol. 210; p. 1006.
- Earp-Thomas, George H., Glen Ridge, N. J. Container for transporting bacterial cultures. No. 1,137,388; Apr. 27; Gaz. vol. 213; p. 1296.
- Easlick, William A., Milan, Mich. Fishing-float. No. 1,157,517; Oct. 19; Gaz. vol. 219; p. 823.
- East, John W., Los Angeles, Cal. Railway-crossing. No. 1,139,171; May 11; Gaz. vol. 214; p. 548.
- East, Matthew H., Melbourne, Victoria, Australia, assignor to Massey-Harris Company, Limited, Toronto, Canada. Harvesting-machine. No. 1,150,104; Aug. 17; Gaz. vol. 217; p. 743.
- Easte, John W., South Bend, Ind. Automatic headlight control. No. 1,132,919; Mar. 23; Gaz. vol. 212; p. 1206.
- Easter, Lee E., Leon, Iowa. Wireless corn-planter. No. 1,153,426; Sept. 14; Gaz. vol. 218; p. 415.
- Easter, Samuel T., and E. E. Cook, Aberdeen, Wash. Leaf-spring lubricator. No. 1,147,930; July 27; Gaz. vol. 216; p. 1101.
- Easterday, Sidney H., Kansas City, Mo. Vehicle-wheel. No. 1,164,706; Dec. 21; Gaz. vol. 221; p. 774.
- Eastern Fountain Company. (See Sage, Ernest L., assignor.)
- Eastern Machine Screw Corporation. (See Gates, William H., assignor.)
- Eastick, John J., London, and J. J. A. De Whalley, Lee, assignors to The Molassine Company, Limited, East Greenwich, England. Manufacture of food for cattle and other animals. No. 1,147,489; July 20; Gaz. vol. 216; p. 920.
- Eastlake, Herbert C., Milwaukee, Wis. Undertaker's clamp. No. 1,129,856; Mar. 2; Gaz. vol. 212; p. 8.
- Eastman, Adelbert L., New York, N. Y. Tag. No. 1,161,295; Nov. 23; Gaz. vol. 220; p. 1150.
- Eastman, Charles B. and M. C. Georgetown, Mass. Fire-alarm. No. 1,125,674; Jan. 19; Gaz. vol. 210; p. 953.
- Eastman, Clyde J., Los Angeles, Cal. Tractor. No. 1,140,969; May 25; Gaz. vol. 214; p. 1251.
- Eastman, David, assignor to Eastman Manufacturing Company, New York, N. Y. Metal handle for tools. No. 1,158,032; Oct. 26; Gaz. vol. 219; p. 1064.
- Eastman, Franklin P., New York, N. Y. Self-dumping scow. No. 1,138,463; May 4; Gaz. vol. 214; p. 261.
- Eastman, J. D. (See Peters, Frank E., assignor.)
- Eastman Kodak Company. (See Allen, Ernest C., assignor.)
- Eastman Kodak Company. (See Barnes and Lovejoy, assignors.)
- Eastman Kodak Company. (See Clarke, Joseph T., assignor.)
- Eastman Kodak Company. (See Dey and Zwilling, assignors.)
- Eastman Kodak Company. (See Folmer, William F., assignor.)
- Eastman Kodak Company. (See Kroedel and Spidel, assignors.)
- Eastman Kodak Company. (See Plante, Levi N., assignor.)
- Eastman Kodak Company. (See Riddell and Kroedel, assignors.)
- Eastman Kodak Company. (See Slevers, Herman C., assignor.)
- Eastman Kodak Company. (See Spidel, Charles F., assignor.)
- Eastman Machine Company. (See Clark, Frederick J., assignor.)
- Eastman Manufacturing Company. (See Eastman, David, assignor.)
- Eastman, Minot C. (See Eastman, Charles B. and M. C.)
- Eastman, William E. (See Bowman, Lloyd, assignor.)
- Eastman, William E., Boston, Mass. Apparatus for starting internal-combustion engines. No. 1,137,847; May 4; Gaz. vol. 214; p. 43.
- Easton, William B., Chicago, Ill. Tube-mill. No. 1,139,651; May 18; Gaz. vol. 214; p. 752.
- Eastwick, James, Fyning Wood, England. Magazine for small-arms. No. 1,157,654; Oct. 19; Gaz. vol. 219; p. 867.
- Easy Guide Manufacturing Company, The. (See Pleasants, Arthur H., assignor.)
- Easy Truss Company. (See Miller, Ward J., assignor.)
- Eaton, Albert N., Newburyport, Mass. Combined screen and shutter. No. 1,138,944; May 11; Gaz. vol. 214; p. 467.
- Eaton, Allan L., Austin, assignor to Charles W. Shonk Company, Chicago, Ill. Sectional display-cabinet. No. 1,154,240; Sept. 21; Gaz. vol. 218; p. 732.
- Eaton, Arthur W., Wenham, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Splitting-machine. No. 1,128,300; Feb. 16; Gaz. vol. 211; p. 664.
- Eaton, Clyde D., Biggs, Ill. Refuse-collector. No. 1,147,151; July 20; Gaz. vol. 216; p. 801.
- Eaton, Emoron J. (See Kenney, Charles H., assignor.)
- Eaton, Fred W. (See Mantel and Eaton.)
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Resilient driving connection. No. 1,130,264; Mar. 2; Gaz. vol. 212; p. 146.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vehicle. No. 1,155,224; Sept. 28; Gaz. vol. 218; p. 1097.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 1,155,225; Sept. 28; Gaz. vol. 218; p. 1098.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Assembling core structures for dynamo-electric machines. No. 1,158,463; Nov. 2; Gaz. vol. 220; p. 18.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 1,162,043; Nov. 30; Gaz. vol. 220; p. 1456.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 1,137,848; May 4; Gaz. vol. 214; p. 44.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor-rectifier. No. 1,166,196; Dec. 28; Gaz. vol. 221; p. 1338.
- Eaton, George M., and S. W. Farnsworth, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Cooling system. No. 1,159,910; Nov. 9; Gaz. vol. 220; p. 561.
- Eaton, Harrison H., Beverly, Mass. Pipe-cutter. No. 1,162,905; Dec. 7; Gaz. vol. 221; p. 59.
- Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Clicking-machine. No. 1,131,686; Mar. 16; Gaz. vol. 212; p. 709.
- Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-bench. No. 1,151,576; Aug. 31; Gaz. vol. 217; p. 1354.
- Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stripping-machine. No. 1,161,038; Nov. 23; Gaz. vol. 220; p. 1056.
- Eaton, Horace M., Hudson, Mass. Heel-pad. No. 1,164,177; Dec. 14; Gaz. vol. 221; p. 549.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch. No. 1,166,339; Dec. 28; Gaz. vol. 221; p. 1389.
- Eaton, Leslie E., Hot Springs, S. D. Headlight-dimming attachment. No. 1,128,959; Feb. 16; Gaz. vol. 211; p. 894.
- Eaton, Richard M., Niagara Falls, N. Y., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Composite electric system. No. 1,138,739; May 11; Gaz. vol. 214; p. 395.
- Eaton, William S., Sag Harbor, N. Y., assignor to American Bank Note Company. Damping-machine. No. 1,138,095; May 4; Gaz. vol. 214; p. 132.
- Eaton, William S., Sag Harbor, assignor to American Bank Note Company, New York, N. Y. Printing-machine. No. 1,147,152; July 20; Gaz. vol. 216; p. 801.
- Eaton, Wyman. (See Helder, Eaton, and Collier.)
- Eavenson, Roscoe L., Elberton, Ga. Hand-stamper. No. 1,149,508; Aug. 10; Gaz. vol. 217; p. 466.
- Ebe, Hubert, Paso Robles, Cal. Apparatus for preparing milk or cream for testing. No. 1,147,624; July 20; Gaz. vol. 216; p. 967.
- Ebeling, Charles W., et al. (See Kaufman, Eugene H., assignor.)
- Ebeling, Charles W., Wheeling, W. Va. Stylus-positioning and circuit-controlling means for sound-reproducing machines. No. 1,138,646; May 11; Gaz. vol. 214; p. 361.
- Ebeling, Charles W., Wheeling, W. Va., assignor of one-half to H. W. Rogers, New York, N. Y. Reciprocating motor. No. 1,129,964; Mar. 2; Gaz. vol. 212; p. 44.
- Ebell, Emil, Neuruppin, Germany. Warp-tensioning device. No. 1,124,878; Jan. 12; Gaz. vol. 210; p. 634.
- Eberhard Faber Pencil Company. (See Fleming, Clarence C., assignor.)
- Eberhard, George F., Trenton, N. J., assignor to R. H. Ingersoll & Bro. Winding-clutch for watches. No. 1,144,827; June 29; Gaz. vol. 215; p. 1435.
- Eberhard, Jacob, Kreuznach-on-the-Rhine, Germany. Portable-track vehicle. No. 1,151,251; Aug. 24; Gaz. vol. 217; p. 1199.

Alphabetical list of patentees—Continued.

- Eberhard, Otto, Heidenau, near Dresden, Germany. Drying objects formed of plastic masses. No. 1,131,047; Mar. 9; Gaz. vol. 212; p. 453.
- Eberhard, Otto von, Bredeneu, near Essen-on-the-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sighting device. No. 1,157,468; Oct. 19; Gaz. vol. 219; p. 805.
- Eberhard, Otto von, Bredeneu, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sighting device for projectile-ejectors of airships. No. 1,159,556; Nov. 9; Gaz. vol. 220; p. 432.
- Eberhard, Rudolf, Munich, Germany. Making anticorrosive paints and the like. No. 1,145,186; July 6; Gaz. vol. 216; p. 74.
- Eberhardt, Henry E., assignor to Newark Gear Cutting Machine Co., Newark, N. J. Milling-cutter. No. 1,141,700; June 1; Gaz. vol. 215; p. 217.
- Eberhardt, Hermann, Breslau, Germany. Cleaning tubular bodies. No. 1,150,582; Aug. 17; Gaz. vol. 217; p. 912.
- Eberhardt, Michael. (See Meyer and Eberhardt.)
- Eberhart, Cleburne, Jr., Atlanta, Ga. Indicator-operating device for gasoline-tanks. No. 1,133,013; Mar. 23; Gaz. vol. 212; p. 1242.
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Cleaning sheet-metal plates. No. 1,136,110; Apr. 20; Gaz. vol. 213; p. 799.
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Metallic label. No. 1,144,534; June 29; Gaz. vol. 215; p. 1333.
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Manufacturing seamed cans. No. 1,148,158; July 27; Gaz. vol. 216; p. 1183.
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Sheet-stack-handling mechanism. No. 1,152,403; Sept. 7; Gaz. vol. 218; p. 8.
- Eberhart, Felix, assignor to American Can Company, New York, N. Y. Sheet-metal blacking-box. No. 1,148,660; Aug. 3; Gaz. vol. 217; p. 66.
- Eberhart, Frank, New York, N. Y. Feed-water heater. No. 1,151,577; Aug. 31; Gaz. vol. 217; p. 1355.
- Eberle, Samuel A., Cincinnati, Ohio. Egg-tester. No. 1,135,101; Apr. 13; Gaz. vol. 213; p. 407.
- Ebersole, Cyrus P., assignor to Electric Service Supplies Company, Philadelphia, Pa. Changeable sign. No. 1,133,624; Mar. 30; Gaz. vol. 212; p. 1496.
- Ebert, Friedrich, assignor to Union Special-Maschinen-fabrik G. m. b. H., Stuttgart, Germany. Indicating mechanism. No. 1,128,960; Feb. 16; Gaz. vol. 211; p. 894.
- Ebert, Harry, Frederick, Md. Shutter-latch. No. 1,158,657; Nov. 2; Gaz. vol. 220; p. 88.
- Ebert, Harry, Frederick, Md. Bowing-rod and bracket therefor. No. 1,158,658; Nov. 2; Gaz. vol. 220; p. 88.
- Ebert, John H., Taylorville, Ill. Street and station indicator. No. 1,159,478; Nov. 9; Gaz. vol. 220; p. 405.
- Ebert, Otto, Cleveland, Ohio. Hollow mill. No. 1,165,859; Dec. 28; Gaz. vol. 221; p. 1216.
- Ehle, George. (See Himmel and Ehle.)
- Ebler, Erich, Heidelberg, Germany. Manufacture, isolation, and enrichment of radio-active substances by absorption from solutions. No. 1,142,153; June 8; Gaz. vol. 215; p. 412.
- Ebler, Erich, Heidelberg, Germany. Treating radio-active ores and intermediate products. No. 1,142,154; June 8; Gaz. vol. 215; p. 412.
- Ebnor, Karl, Kempten, Germany. Sad-iron support. No. 1,138,176; May 4; Gaz. vol. 214; p. 160.
- Eby, Earl E., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley-wheel. No. 1,155,226; Sept. 28; Gaz. vol. 218; p. 1098.
- Eccles, James H., Lodi, Cal. Combined cultivator and weed-cutter. No. 1,158,906; Nov. 2; Gaz. vol. 220; p. 174.
- Eccles, William, Chorlton-cum-Hardy, England. Turbine. No. 1,142,506; June 8; Gaz. vol. 215; p. 537.
- Eckardt, August H., St. Paul, Minn. Bunching attachment for mowing-machines. No. 1,153,842; Sept. 14; Gaz. vol. 218; p. 562.
- Eckardt, Moritz. (See Most and Eckardt.)
- Eckardt, Otto M., Dover, N. J. Snow-removing device. No. 1,154,388; Sept. 21; Gaz. vol. 218; p. 785.
- Eckart, William F. (See Hard, Merrill W., assignor.)
- Eckas, Henry A., Seattle, Wash. Rug-fastening device. No. 1,155,554; Oct. 5; Gaz. vol. 219; p. 80.
- Eckel, Howard, Los Angeles, Cal. Pumping mechanism for vacuum-cleaners. No. 1,138,464; May 4; Gaz. vol. 214; p. 262.
- Eckel, Louis, Mount Vernon, N. Y. Dough-molding apparatus. No. 1,163,814; Dec. 14; Gaz. vol. 221; p. 424.
- Eckelberg, William, Gertsburg, S. D. Hay-rack. No. 1,130,498; Mar. 2; Gaz. vol. 212; p. 231.
- Eckelmeyer, Frederick W., assignor to William Mann Company, Philadelphia, Pa. Loose-leaf binder. No. 1,150,750; Aug. 17; Gaz. vol. 217; p. 968.
- Eckenrood, Harvey C., assignor to The Superior Metal Products Company, Elyria, Ohio. Bicycle or motor-cycle saddle-clamp. No. 1,147,007; July 20; Gaz. vol. 216; p. 752.
- Eckenwiler, George M., assignor of nine-twentieths to E. and F. Singer, A. Claypool, J. Adams, A. Crider, J. Brogden, W. O'Brien, A. Grimm, V. and D. Pennell, Canton, Ohio. Flying-machine. No. 1,143,817; June 22; Gaz. vol. 215; p. 1055.
- Ecker, Howard F., Baltimore, Md. Non-refillable bottle. No. 1,160,865; Nov. 16; Gaz. vol. 220; p. 950.
- Eckerle, Christav, Merrill, Wis. Horse-collar. No. 1,146,057; July 13; Gaz. vol. 216; p. 399.
- Eckerle, Christav, Merrill, assignor of one-half to G. Eckerle, Wausau, Wis. Horse-collar. No. 1,148,667; Aug. 3; Gaz. vol. 217; p. 66.
- Eckerle, George. (See Eckerle, Christav, assignor.)
- Eckersley, Arthur J. L., South Melbourne, Victoria, Australia. Apparatus for delivering and mixing drinks or other liquids. No. 1,140,888; May 25; Gaz. vol. 214; p. 1221.
- Eckerson Bedding Company. (See Eckerson, Homer, assignor.)
- Eckerson, Homer, assignor to Eckerson Bedding Company, Mechanicsville, N. Y. Mattress-guard. No. 1,125,277; Jan. 19; Gaz. vol. 210; p. 812.
- Eckert, Adam, Perth Amboy, N. J. Valve mechanism for internal-combustion engines. No. 1,150,751; Aug. 17; Gaz. vol. 217; p. 968.
- Eckford, William, Rhyl, Wales. Manufacture of lead paste from red or orange lead. No. 1,128,961; Feb. 16; Gaz. vol. 211; p. 894.
- Eckhard, Fritz. (See Just and Eckhard.)
- Eckhardt, Adolph, Sutton, Nebr. Spark-plug. No. 1,159,911; Nov. 9; Gaz. vol. 220; p. 561.
- Eckhardt, Engelhardt A., Philadelphia, Pa. Making wear-withstanding coat. No. 1,162,149; Nov. 30; Gaz. vol. 220; p. 1494.
- Eckhardt, Engelhardt A., Philadelphia, Pa. Coated phonograph-stylus and other article. No. 1,162,285; Nov. 30; Gaz. vol. 220; p. 1541.
- Eckles, William, Hemet, Cal. Peach-pitter. No. 1,159,575; Nov. 9; Gaz. vol. 220; p. 439.
- Eckliff Automatic Boiler Circulator Company. (See Eckliff, James C., assignor.)
- Eckliff Automatic Boiler Circulator Company. (See Gilbert, F. Walter, assignor.)
- Eckliff, James C., assignor to Eckliff Automatic Boiler Circulator Company, Detroit, Mich. Blow-off. No. 1,127,354; Feb. 2; Gaz. vol. 211; p. 240.
- Eckliff, James C., assignor to Eckliff Automatic Boiler Circulator Company, Detroit, Mich. Water-purifier. No. 1,140,302; May 18; Gaz. vol. 214; p. 980.
- Eckman, Arthur L., Brookings, S. D. Apparatus for rabbitting connecting-rods. No. 1,165,079; Dec. 21; Gaz. vol. 221; p. 905.
- Eckman, John R. (See Oberg and Eckman.)
- Eckmann, Siegmund H., and J. Wagner, Manchester, England, assignors to Westinghouse Electric and Manufacturing Company. Safety speed-control apparatus for motors. No. 1,138,647; May 11; Gaz. vol. 214; p. 361.
- Eckre, Olof A., Kindred, N. D. Carpenter's combination-tool. No. 1,134,826; Apr. 6; Gaz. vol. 213; p. 269.
- Eckstein, Christian, assignor to Aktiengesellschaft Porzellanfabrik Weiden, Gebrüder Bauscher, Weiden, Germany. Pottery-molding machine. No. 1,129,797; Feb. 23; Gaz. vol. 211; p. 1218.
- Eckstein, Christian, assignor to Aktiengesellschaft Porzellanfabrik Weiden, Gebrüder Bauscher, Weiden, Bavaria, Germany. Apparatus for casting bodies of ceramic mass. No. 1,163,328; Dec. 7; Gaz. vol. 221; p. 207.
- Eclipse Gas Stove Company. (See Green, Michael J., assignor.)
- Eclipse Machine Company. (See Ellett, Frederick S., assignor.)
- Eclipse Stove Company. (See Tappan, William H., assignor.)
- Eco Magneto Clock Company, The. (See Wadsworth, Erastus E., assignor.)
- Economic Machinery Company. (See Woodland, Frank O., assignor.)
- Economic Power & Products Company. (See Marsden, Mark W., assignor.)
- Economic Press Delivery Company. (See White, Charles A., assignor.)
- Economic and Sanitary Liquid-Cooling Company, The. (See Stricker, George A., assignor.)
- Economic Twist Drill Company. (See Denk, Simon, assignor.)
- Economy Baler Company. (See Langford and Wenk, assignors.)
- Economy Devices Corporation. (See Casey and Cavin, assignors.)
- Economy Devices Corporation. (See Stafford, Hal R., assignor.)
- Economy Feed Water Heater Company. (See Wallace, Charlie V., assignor.)
- Economy Fuse & Manufacturing Company. (See Eustice, Alfred L., assignor.)
- Economy Fuse & Manufacturing Company. (See Huxley, Henry M., assignor.)
- Economy Gas Valve Company. (See Earle and Madden, assignors.)
- Ecothermal Company, The. (See Thomas, Stephen S., assignor.)

Alphabetical list of patentees—Continued.

- Eddins, Quint G., Richmond, Va. Sash-holder. No. 1,153,773; Sept. 14; Gaz. vol. 218; p. 536.
- Eddy, Albert H., Edgewood Station, R. I. Gas-heater. No. 1,147,315; July 20; Gaz. vol. 216; p. 857.
- Eddy, Charles H., Attleboro, Mass. Ice-cream freezer. No. 1,152,496; Sept. 7; Gaz. vol. 218; p. 41.
- Eddy, Frank W., Los Angeles, Cal. Protective apparatus for fruit-trees. No. 1,126,426; Jan. 26; Gaz. vol. 210; p. 1254.
- Eddy, Gerald A., assignor of one-half to E. Belk, Los Angeles, Cal. Change-gear mechanism. (Reissue.) No. 13,864; Jan. 12; Gaz. vol. 210; p. 687.
- Eddy, James F., Lansdowne, Pa. Daily-date sign. No. 1,153,543; Sept. 14; Gaz. vol. 218; p. 458.
- Eddy, James F., Lansdowne, Pa. Daily-date sign. No. 1,153,544; Sept. 14; Gaz. vol. 218; p. 458.
- Eddy, James F., Lansdowne, Pa. Daily-date sign. No. 1,153,545; Sept. 14; Gaz. vol. 218; p. 458.
- Eddy, Oscar H., assignor to W. Eddy Plow Co., Greenwich, N. Y. Clevis construction. No. 1,126,427; Jan. 26; Gaz. vol. 210; p. 1254.
- Edelhausen, Charles M., Long Island City, N. Y. Helmet. No. 1,154,494; Sept. 21; Gaz. vol. 218; p. 819.
- Edell, Charles L. (See Wareham, Edward J., assignor.)
- Edelman, Philip E., Minneapolis, Minn. Safety drill and tool holder. No. 1,158,190; Oct. 26; Gaz. vol. 219; p. 1120.
- Edelstein, Adolph M., London, England. Metal pocket-case. No. 1,126,737; Feb. 2; Gaz. vol. 211; p. 25.
- Eden, Harold W., Chicago, Ill. Reciprocating positioning mechanism. No. 1,149,814; Aug. 10; Gaz. vol. 217; p. 578.
- Eden, James A., Jr., Springfield, Mass. Drilling-machine. No. 1,159,196; Nov. 2; Gaz. vol. 220; p. 274.
- Eden, James A., Jr., Springfield, Mass., assignor to Baush Machine Tool Company. Multiple drill. No. 1,134,521; Apr. 6; Gaz. vol. 213; p. 160.
- Eden, James A., Jr., Springfield, Mass., assignor to Baush Machine Tool Company. Blank-feeding mechanism for metal-working machines. No. 1,159,195; Nov. 2; Gaz. vol. 220; p. 274.
- Edens, Henry N., New Holstein, Wis. Carbureter. No. 1,137,307; Apr. 27; Gaz. vol. 213; p. 1266.
- Eder, George J. (See White, Thomas H., assignor.)
- Edey, Charles E. C., assignor of one-half to T. B. Bonham, Tacoma, Wash. Automobile-lock. No. 1,155,902; Oct. 5; Gaz. vol. 219; p. 201.
- Edgar Allen American Manganese Steel Company. (See Brinton, Walter, assignor.)
- Edgar Allen American Manganese Steel Company. (See McKee, Walter S., assignor.)
- Edgar Allen American Manganese Steel Company. (See Nichols, Wesley G., assignor.)
- Edgar Allen American Manganese Steel Company. (See Vanderhoef, Ellison E., assignor.)
- Edgar Allen American Manganese Steel Company. (See Vanderhoef and Johnson, assignors.)
- Edgar, Andrew C., Newtown Square, assignor to Abram Cox Stove Company, Philadelphia, Pa. Combined gas and coal stove. No. 1,164,485; Dec. 14; Gaz. vol. 221; p. 658.
- Edgar, John, Hyde Park, Mass., assignor, by mesne assignments, to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Feed mechanism for milling-machines, lathes, &c. No. 1,131,496; Mar. 9; Gaz. vol. 212; p. 608.
- Edgar, Malcolm W., Detroit, Mich. Ganging books for belt-fasteners. No. 1,163,901; Dec. 14; Gaz. vol. 221; p. 453.
- Edgar, Robert A., Carlyle, assignor of two-fifths to J. C. Hadley, Chanute, Kans. Seal. No. 1,140,133; May 18; Gaz. vol. 214; p. 924.
- Edgar, William S. W., Dayton, Ohio. Fluid-gage. No. 1,158,907; Nov. 2; Gaz. vol. 220; p. 174.
- Edge Moor Iron Company. (See Sellers, William F., assignor.)
- Edge, William, Newark, and A. H. Jones, East Orange, N. J. Can-opener. No. 1,135,571; Apr. 13; Gaz. vol. 213; p. 570.
- Edgecomb, Henry R., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Bond-distributor for mica-towers. No. 1,126,161; Jan. 26; Gaz. vol. 210; p. 1159.
- Edgecombe, Edward F., Jr., Marion, Ind. Circulation-control system. No. 1,138,854; May 11; Gaz. vol. 214; p. 437.
- Edick, George, Albuquerque, N. Mex. Rail-joint. No. 1,155,903; Oct. 5; Gaz. vol. 219; p. 201.
- Edinger, Fred S., Berkeley, Cal. Apparatus for transferring earth or other excavated material. No. 1,165,234; Dec. 21; Gaz. vol. 221; p. 961.
- Edinger, Fred S., Berkeley, assignor of one-half to A. Borland, Oakland, Cal. Flexible-concrete-slab-revetment construction for embankments. No. 1,164,707; Dec. 21; Gaz. vol. 221; p. 775.
- Edinger, Fred S., Berkeley, assignor of one-half to A. Borland, Oakland, Cal. Concrete-slab construction for the protection of embankments. No. 1,164,708; Dec. 21; Gaz. vol. 221; p. 775.
- Edington, Melvin G., Lyons, and C. W. Campbell, Bicknell, Ind. Silo-stave mold. No. 1,125,986; Jan. 26; Gaz. vol. 210; p. 1095.
- Edison Storage Battery Company. (See Holland, Walter E., assignor.)
- Edison Storage Battery Company. (See Hutchison, Miller R., assignor.)
- Edison Storage Battery Company. (See Hutchison and Norton, assignors.)
- Edison and Swan United Electric Light Company Limited. (See Davis, William J., assignor.)
- Edison, Thomas A. (See Aylsworth and Aiken, assignors.)
- Edison, Thomas A. (See Bliss, Donald M., assignor.)
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Mold for concrete construction. No. 1,123,261; Jan. 5; Gaz. vol. 210; p. 20.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Charging storage batteries. No. 1,143,818; June 22; Gaz. vol. 215; p. 1055.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Means for utilizing the waste heat in kilns. No. 1,148,832; Aug. 3; Gaz. vol. 217; p. 125.
- Edison, Thomas A., Llewellyn Park, Orange, N. J. Burning Portland-cement clinker. No. 1,152,613; Sept. 7; Gaz. vol. 218; p. 85.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Sound-recording apparatus. No. 1,126,428; Jan. 26; Gaz. vol. 210; p. 1255.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Machine for shaving sound records or blanks. No. 1,130,156; Mar. 2; Gaz. vol. 212; p. 109.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Presenting the illusion of scenes in colors. No. 1,138,360; May 4; Gaz. vol. 214; p. 225.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Sound-recording apparatus. No. 1,142,507; June 8; Gaz. vol. 215; p. 538.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Producing tablets for sound-records. No. 1,146,413; July 13; Gaz. vol. 216; p. 523.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Making phonograph-records. No. 1,146,414; July 13; Gaz. vol. 216; p. 523.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Phonographic recording apparatus. No. 1,152,614; Sept. 7; Gaz. vol. 218; p. 86.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Alternating-current-rectifying system. No. 1,152,615; Sept. 7; Gaz. vol. 218; p. 86.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Contact for electrical apparatus. No. 1,152,616; Sept. 7; Gaz. vol. 218; p. 87.
- Edison, Thomas A., Llewellyn Park, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-record. No. 1,158,659; Nov. 2; Gaz. vol. 220; p. 89.
- Edison, Thomas A., Llewellyn Park, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-record. No. 1,158,660; Nov. 2; Gaz. vol. 220; p. 89.
- Edison, Thomas A., Llewellyn Park, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph or talking-machine. No. 1,158,661; Nov. 2; Gaz. vol. 220; p. 89.
- Edison, Thomas A., Llewellyn Park, Orange, N. J., assignor to General Electric Company, Schenectady, N. Y. Filament for incandescent electric lamps. No. 1,163,329; Dec. 7; Gaz. vol. 221; p. 208.
- Edison, Thomas A., Jr., Burlington, N. J. Fuel-supplying means. No. 1,160,585; Nov. 16; Gaz. vol. 220; p. 850.
- Edler, Fred C., et al. (See Linn, Robert, assignor.)
- Edman, Axel. (See Leonard, Albert, assignor.)
- Edman, John, assignor of one-half to Williamson & Merchant, Minneapolis, Minn. Guard for circular saws. No. 1,135,168; Apr. 13; Gaz. vol. 213; p. 430.
- Edmiston, John, Glasgow, Scotland. Scholastic appliance for teaching the reading of clock-dials and the distinguishing of colors. No. 1,143,519; June 15; Gaz. vol. 215; p. 927.
- Edmiston, John J. (See Ryan, Oscar D., assignor.)
- Edmond, Berger, and N. E. Barnes, Houston, Tex. Automatic film-mover. No. 1,124,879; Jan. 12; Gaz. vol. 210; p. 634.
- Edmonds, Arthur J., Madison, Wis. Truck. No. 1,165,954; Dec. 28; Gaz. vol. 221; p. 1249.
- Edmonds, Herbert D., Culbertson, Mont. Contour-scale. No. 1,129,081; Feb. 23; Gaz. vol. 211; p. 970.
- Edmonds, Samuel O., New York, N. Y., assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 1,126,622; Jan. 26; Gaz. vol. 210; p. 1327.
- Edmonds, Walter D. (See Ladoff, Isador, assignor.)
- Edmondson, E. A., et al. (See Taylor, Nicholas, assignor.)
- Edmonson, Arthur L., Seattle, Wash., assignor to R. M. Sherman, Portland, Oreg. Lens-grinding machine. No. 1,135,936; Apr. 13; Gaz. vol. 213; p. 697.

Alphabetical list of patentees—Continued.

- Edmunds, Howard M., Westminster, England. Measurement of the flow of gas in conduits or pipes. No. 1,148,833; Aug. 3; Gaz. vol. 217; p. 126.
- Edson, John W., Hingham Center, assignor to L. E. Vose, Walpole, Mass. Spool. No. 1,141,448; June 1; Gaz. vol. 215; p. 129.
- Edson, William, New York, N. Y. Nut-lock. No. 1,155,408; Oct. 5; Gaz. vol. 219; p. 29.
- Edson, William, New York, N. Y. Nut-lock. No. 1,165,955; Dec. 28; Gaz. vol. 221; p. 1249.
- Edward F. Caldwell & Co. (See Tizley, Arthur J., assignor.)
- Edward Ford Plate Glass Company, The. (See Kuhns, John H., assignor.)
- Edward G. Budd Manufacturing Company, The. (See Ledwinka, Joseph, assignor.)
- Edward J. Rice Mfg. Co., The. (See Rice, Oscar W., assignor.)
- Edward Katzinger Co. (See Kellaway and Christoph, assignors.)
- Edward Katzinger Company. (See Brownstein, Morris, assignor.)
- Edward Katzinger Company. (See Katzinger, Edward, assignor.)
- Edwards, Albert J., *et al.* (See Martin, Commodore V., assignor.)
- Edwards, Albert Y., assignor to The Foos Gas Engine Company, Springfield, Ohio. Indicator for shaft-bearings. No. 1,133,462; Mar. 30; Gaz. vol. 212; p. 1437.
- Edwards, Alonzo L., assignor to Wheeling Stamping Company, Wheeling, W. Va. Tubular lantern. No. 1,129,562; Feb. 23; Gaz. vol. 211; p. 1139.
- Edwards, Alonzo L., assignor to Wheeling Stamping Company, Wheeling, W. Va. Electric flash lamp or lantern. No. 1,152,082; Aug. 31; Gaz. vol. 217; p. 1530.
- Edwards, Alonzo L., assignor to Wheeling Stamping Company, Wheeling, W. Va. Electric flash lamp or lantern. No. 1,152,155; Aug. 31; Gaz. vol. 217; p. 1555.
- Edwards, Alrah B., and F. K. Russell, assignors to Standard Phonotype Company, Dallas, Tex. Striking mechanism for stenographic writing machines. No. 1,162,688; Nov. 30; Gaz. vol. 220; p. 1674.
- Edwards, Alrah B., and F. K. Russell, assignors to Standard Phonotype Company, Dallas, Tex. Writing-machine. No. 1,162,689; Nov. 30; Gaz. vol. 220; p. 1675.
- Edwards, August O., Lindsay, Cal. Pickling cantaloups. No. 1,155,555; Oct. 5; Gaz. vol. 219; p. 81.
- Edwards, Bruce V., assignor to Edwards Engineering & Manufacturing Company, Newark, N. J. Balloon-stripping machine. No. 1,142,945; June 15; Gaz. vol. 215; p. 728.
- Edwards, Charles W., Maquoketa, Iowa. Anchor. No. 1,137,745; May 4; Gaz. vol. 214; p. 9.
- Edwards, Christopher B., Covington, Ky. Nail and washer for sheet-metal roofing and the like. No. 1,144,700; June 29; Gaz. vol. 215; p. 1390.
- Edwards, Christopher B., assignor to The Moeschl-Edwards Corrugating Company, Covington, Ky. Sheet-metal roofing. No. 1,140,667; May 25; Gaz. vol. 214; p. 1144.
- Edwards, Clement N., Hillsboro, assignor of one-half to W. S. Edwards, Winchester, Ohio. Wire-stretcher. No. 1,160,056; Nov. 9; Gaz. vol. 220; p. 610.
- Edwards & Co. (See Miller, Christian, assignor.)
- Edwards, Daniel W. (See Purdy and Edwards.)
- Edwards, Daniel W., assignor to Greenlee Bros. & Company, Rockford, Ill. Chuck. No. 1,133,795; Mar. 30; Gaz. vol. 212; p. 1557.
- Edwards, Edward W., Cincinnati, Ohio. Sheet-metal roofing. No. 1,137,746; May 4; Gaz. vol. 214; p. 9.
- Edwards, Edward W., Cincinnati, Ohio. Stovepipe. No. 1,153,204; Sept. 14; Gaz. vol. 218; p. 334.
- Edwards Engineering & Manufacturing Company. (See Edwards, Bruce V., assignor.)
- Edwards, Eugene O., La Crosse, Wis. Internal-combustion engine. No. 1,132,708; Mar. 23; Gaz. vol. 212; p. 1129.
- Edwards, Eugene P., Plainfield, N. J. Shaft-coupling. No. 1,148,960; Aug. 3; Gaz. vol. 217; p. 168.
- Edwards, Eugene P., assignor of one-half to himself and one-half to A. S. Giles, Plainfield, N. J. Universal joint. No. 1,136,466; Apr. 20; Gaz. vol. 213; p. 927.
- Edwards, Eugene P., assignor of one-half to himself and one-half to A. S. Giles, Plainfield, N. J. Universal joint. No. 1,150,853; Aug. 24; Gaz. vol. 217; p. 1063.
- Edwards, Fendall C., and C. J. Hunter, Newport News, Va. Side car for bicycles. No. 1,146,058; July 13; Gaz. vol. 216; p. 399.
- Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Slight-feed attachment for lubricators. No. 1,149,563; Aug. 10; Gaz. vol. 217; p. 485.
- Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Feed attachment for lubricators. No. 1,149,564; Aug. 10; Gaz. vol. 217; p. 486.
- Edwards, Frank W., assignor to The Chicago Lubricator Company, Chicago, Ill. Slight feed lubricator. No. 1,153,540; Sept. 14; Gaz. vol. 218; p. 459.
- Edwards, Frank W., assignor to The Chicago Lubricator Company, Chicago, Ill. Locomotive-cab squirt. No. 1,155,474; Oct. 5; Gaz. vol. 219; p. 53.
- Edwards, Frank W., assignor to The Chicago Lubricator Company, Chicago, Ill. Feed-tip for lubricators. No. 1,161,296; Nov. 23; Gaz. vol. 220; p. 1150.
- Edwards, George C., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Advertising device. No. 1,149,347; Aug. 10; Gaz. vol. 217; p. 410.
- Edwards, George W., Fort Edward, N. Y. Controlling device. No. 1,137,054; Apr. 27; Gaz. vol. 213; p. 1173.
- Edwards, Harry C., assignor of one-half to J. T. Megredy, Kansas City, Mo. Jack-engaging rear-axle bracket. No. 1,137,002; Apr. 27; Gaz. vol. 213; p. 1154.
- Edwards, Harry C., and J. T. Megredy, Kansas City, Mo. Automobile-jack. No. 1,137,003; Apr. 27; Gaz. vol. 213; p. 1155.
- Edwards, Harry E., Warren, Ohio. Cushion-tire. No. 1,149,640; Aug. 10; Gaz. vol. 217; p. 517.
- Edwards Instrument Company. (See Darling, Arthur R., assignor.)
- Edwards, John C., Mobile, Ala. Signal device for vehicles. No. 1,138,361; May 4; Gaz. vol. 214; p. 226.
- Edwards, John K., Philadelphia, Pa. Internal-combustion engine. No. 1,142,508; June 8; Gaz. vol. 215; p. 538.
- Edwards, Louis C., Ellington, Conn. Poultry-feeding device. No. 1,132,836; Mar. 23; Gaz. vol. 212; p. 1177.
- Edwards Manufacturing Company, The. (See Wells, John T., assignor.)
- Edwards, Oliver M. (See Axe, Roy T., assignor.)
- Edwards, Oliver M. (See Ohnstrand, Enoch, assignor.)
- Edwards, Oliver M., Syracuse, N. Y. Gearing. No. 1,124,116; Jan. 5; Gaz. vol. 210; p. 312.
- Edwards, Oliver M., Syracuse, N. Y. Window. No. 1,126,160; Jan. 26; Gaz. vol. 210; p. 1159.
- Edwards, Oliver M., Syracuse, N. Y. Wind-shield for vehicles. No. 1,143,616; June 22; Gaz. vol. 215; p. 987.
- Edwards, Oliver M., Syracuse, N. Y. Window-sash. No. 1,147,008; July 20; Gaz. vol. 216; p. 752.
- Edwards, Ralph D., Spencer, Ind. Hinge. No. 1,124,400; Jan. 12; Gaz. vol. 210; p. 461.
- Edwards, Reuben J., Waterbury, and C. B. Greene, Morrisville, assignors to H. D. Hyder, Bellows Falls, Vt. Turning-lathe. No. 1,144,535; June 29; Gaz. vol. 215; p. 1333.
- Edwards, Robert C., Cannellton, assignor of one-half to O. Kniesche, Tell City, Ind. Hydroaeroplane. No. 1,156,218; Oct. 12; Gaz. vol. 219; p. 335.
- Edwards, Thomas J., Melrose, Mass. Leather-embossing machine. No. 1,129,563; Feb. 23; Gaz. vol. 211; p. 1140.
- Edwards, Thomas J., Melrose, and W. P. Osgood, Malden, Mass.; said Osgood assignor to said Edwards. Embossing and printing machine. No. 1,155,999; Oct. 5; Gaz. vol. 219; p. 233.
- Edwards, Walter A., Dayton, Ky. Bilge-pump. No. 1,137,849; May 4; Gaz. vol. 214; p. 44.
- Edwards, William C., Jr., Kansas City, Mo. Wall-construction apparatus. No. 1,153,205; Sept. 14; Gaz. vol. 218; p. 334.
- Edwards, William J., Vulcan, Mich. Fork-spreader for bicycles. No. 1,135,271; Apr. 13; Gaz. vol. 213; p. 465.
- Edwards, Wilson S. (See Edwards-Clement N., assignor.)
- Edwin B. Stimpson Company. (See Stimpson, Edwin B., assignor.)
- Edwin Harrington, Son & Co. (See Harrington and Mul-len, assignors.)
- Eek, Albin C., Webster Groves, assignor, by mesne assignments, to Essaness Manufacturing Company, St. Louis, Mo. Pipe-cleaner. No. 1,144,759; June 29; Gaz. vol. 215; p. 1410.
- Eells, Henry B., New York, N. Y. Furnace-grate. No. 1,148,159; July 27; Gaz. vol. 216; p. 1184.
- Efraimson, Carl J. (See Leadholm and Efraimson.)
- Egan, Charles E., and W. E. Mayer, Cincinnati, Ohio. Heating device. No. 1,138,362; May 4; Gaz. vol. 214; p. 226.
- Egan, James H., and J. H. Frierson, Charleston, S. C. Coin-controlled machine. No. 1,128,118; Feb. 9; Gaz. vol. 211; p. 551.
- Egan, Raymond W., Cincinnati, Ohio. Gaging and reversing means for drilling and tapping machines. No. 1,154,296; Sept. 21; Gaz. vol. 218; p. 751.
- Egan, Walter J., White Plains, N. Y. Sanitary cover for garbage-cans. No. 1,145,187; July 6; Gaz. vol. 216; p. 74.
- Egan, William M. (See Underwood, Charles W., assignor.)
- Ege, Alexander H., Mechanicsburg, Pa. Artificial fuel. No. 1,130,075; Mar. 2; Gaz. vol. 212; p. 81.
- Egeland, Chris, assignor to Stoughton Wagon Company, Stoughton, Wis. Rob-sled. No. 1,156,591; Oct. 12; Gaz. vol. 219; p. 466.
- Egeling, William, assignor of one-half to R. Focke, Leipzig, Germany. Device for starting wheels having a smooth circumference. No. 1,148,300; July 27; Gaz. vol. 216; p. 1235.
- Egerton, Graham. (See Egerton, John G., assignor.)
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, New York, N. Y. Telephone-receiver. No. 1,124,401; Jan. 12; Gaz. vol. 210; p. 461.

Alphabetical list of patentees—Continued.

- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, New York, N. Y. Telephonic apparatus. No. 1,140,366; May 25; Gaz. vol. 214; p. 1037.
- Egerton, Henry C., Ridgewood, N. J., assignor to Western Electric Company, New York, N. Y. Loud-speaking receiver. No. 1,161,639; Nov. 23; Gaz. vol. 220; p. 1269.
- Egerton, John G., Memphis, Tenn., assignor of one-third to G. Egerton, Washington, D. C. Automatic lighting control for vehicles. No. 1,135,999; Apr. 20; Gaz. vol. 213; p. 762.
- Eggars, John G., Campbellsport, Wis. Stanchion. No. 1,146,315; July 13; Gaz. vol. 216; p. 488.
- Eggart, Karl, assignor to Firm of A. Saurer, Arbon, Switzerland. Embroidering-machine. No. 1,123,504; Jan. 5; Gaz. vol. 210; p. 105.
- Eggart, Karl, assignor to Firm of A. Saurer, Arbon, Switzerland. Automatic embroidering-machine. No. 1,128,962; Feb. 16; Gaz. vol. 211; p. 894.
- Eggart, Karl, assignor to Firm of A. Saurer, Arbon, Switzerland. Automatic embroidering-machine. No. 1,139,506; May 18; Gaz. vol. 214; p. 702.
- Edge, Frederick, assignor to The American Specialty Co., Bridgeport, Conn. Embroidery-machine. No. 1,134,040; Mar. 30; Gaz. vol. 212; p. 1639.
- Edge, Frederick, assignor to The American Specialty Co., Bridgeport, Conn. Embroidery-machine. No. 1,134,041; Mar. 30; Gaz. vol. 212; p. 1640.
- Eggenstein, Theodore J. II., Chicago, Ill. Friction shock-absorbing device. No. 1,160,153; Nov. 16; Gaz. vol. 220; p. 699.
- Eggers, George C., Borvill, Idaho. Ruling fountain-pen. No. 1,149,348; Aug. 10; Gaz. vol. 217; p. 411.
- Eggers, Henry, Denver, Colo. Automatic variable-rifle belt concentrator. No. 1,150,257; Aug. 17; Gaz. vol. 217; p. 799.
- Eggers, William, New York, N. Y. Mold for making rubber articles. (Reissue.) No. 1,398,887; Sept. 28; Gaz. vol. 218; p. 1132.
- Eggers, William J., New York, N. Y. Tank-valve. No. 1,162,852; Dec. 7; Gaz. vol. 221; p. 42.
- Eggers, William J., New York, N. Y. Manufacture of rubber articles. No. 1,163,987; Dec. 14; Gaz. vol. 221; p. 483.
- Eggleston, James W., Minneapolis, Minn. Egg-filler. No. 1,156,219; Oct. 12; Gaz. vol. 219; p. 335.
- Eggleston, Merritt H. (See MacCallum and Eggleston.)
- Eggleston, Rufus E., Atlanta, Ga., assignor to National Tape Company, Inc., New York, N. Y. Apparatus for producing tape, string, and the like. No. 1,132,837; Mar. 23; Gaz. vol. 212; p. 1178.
- Egite Manufacturing Company. (See Williams, Edward L., assignor.)
- Eglinton, Marion S., Houston, Minn. Wire-fence clamp. No. 1,133,625; Mar. 30; Gaz. vol. 212; p. 1497.
- Egly, Georg, Berlin-Treptow, assignor to Gebrüder Siemens & Co., Berlin-Lichtenberg, Germany. Flame arc lamp and electrode therefor. No. 1,132,313; Mar. 16; Gaz. vol. 212; p. 938.
- Egry Register Company, The. (See Malm, Axel, assignor.)
- Egry Register Company, The. (See Malm, Axel C. V., assignor.)
- Egry Register Company, The. (See Malm, Rauh, and Aker, assignors.)
- Egry Register Company, The. (See Nickol and Stern, assignors.)
- Ehlert, Arthur H., Chicago, Ill. Shaving-mug. No. 1,160,866; Nov. 16; Gaz. vol. 220; p. 950.
- Ehlin, John, deceased; F. W. Hineline, administrator, assignor to F. W. Hineline, trustee, Chicago, Ill. Gearing. No. 1,161,463; Nov. 23; Gaz. vol. 220; p. 1209.
- Ehmke, Henry C., Fredonia, N. Y. Vehicle. No. 1,150,509; Aug. 17; Gaz. vol. 217; p. 885.
- Ehrendreich, Frank, assignor to National Sewing Machine Company, Belvidere, Ill. Bobbin race and cover. No. 1,129,965; Mar. 2; Gaz. vol. 212; p. 45.
- Ehrenthal, Bruno M. E. L. P. von, Cöthen, assignor of forty-five one-hundredths to M. von Halle, Hamburg, Germany. Producing cellulose and other products. No. 1,153,834; Sept. 14; Gaz. vol. 218; p. 559.
- Ehret, Alvin M., assignor to Ehret Magnesia Manufacturing Company, Philadelphia, Pa. Insulating-felt. No. 1,148,447; July 27; Gaz. vol. 216; p. 1284.
- Ehret, Cornelius D., Ardmore, Pa. Alternating-current block-signal system. No. 1,126,623; Jan. 26; Gaz. vol. 210; p. 1328.
- Ehret Magnesia Manufacturing Company. (See Ehret, Alvin M., assignor.)
- Ehret Magnesia Manufacturing Company. (See Hurdle, George V., assignor.)
- Ehret Magnesia Manufacturing Company. (See Macan, William A., assignor.)
- Ehrhard, Joseph, Curtis, Okla. Wrench. No. 1,129,966; Mar. 2; Gaz. vol. 212; p. 45.
- Ehrhardt, Erwin. (See Franke and Ehrhardt.)
- Ehrhardt, Erwin, Pankow, near Berlin, assignor to Siemens & Halske A.-G., Berlin, Germany. Perforating apparatus for making register-bands. No. 1,138,945; May 11; Gaz. vol. 214; p. 467.
- Ehrhardt, Gustav W., and M. Schiavon, Chicago, Ill. Press-plate. No. 1,129,181; Feb. 23; Gaz. vol. 211; p. 1006.
- Ehrhardt, Gustav W., and M. Schiavon, Chicago, Ill. Heated press-plate for embossing. No. 1,129,182; Feb. 23; Gaz. vol. 211; p. 1006.
- Ehrhart, Hymon. (See Ehrhart, William, assignor.)
- Ehrhart, Raymond N., Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Reentrant turbine. No. 1,137,590; Apr. 27; Gaz. vol. 213; p. 1364.
- Ehrhart, Raymond N., Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Fluid-brake. No. 1,161,116; Nov. 23; Gaz. vol. 220; p. 1083.
- Ehrhart, Raymond N., Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Reversible water-brake. No. 1,161,117; Nov. 23; Gaz. vol. 220; p. 1084.
- Ehrhart, Raymond N., Edgewood, Pa., assignor to The Westinghouse Machine Company. Multiple-deck reentrant turbine. No. 1,137,591; Apr. 27; Gaz. vol. 213; p. 1364.
- Ehrhart, Raymond N., Edgewood, Pa., assignor to The Westinghouse Machine Company. Condenser. No. 1,142,784; June 8; Gaz. vol. 215; p. 632.
- Ehrhart, William, Lancaster, Pa. Feeding device for dough-rolling machines. No. 1,158,908; Nov. 2; Gaz. vol. 220; p. 174.
- Ehrhart, William, Philadelphia, assignor to H. Ehrhart, Lancaster, Pa. Pretzel-machine. No. 1,133,249; Mar. 23; Gaz. vol. 212; p. 1325.
- Ehrlich, Charles, New York, N. Y. End bar for bed-springs. No. 1,158,464; Nov. 2; Gaz. vol. 220; p. 18.
- Ehrlich, Frederick W., Newark, N. J., assignor to E. A. Whitehouse Mfg. Co. Tire or shoe holder for automobiles. No. 1,155,053; Sept. 28; Gaz. vol. 218; p. 1039.
- Ehrlich, Leo. (See Fassett, Francis K., assignor.)
- Ehrlich, Paul, and P. Karer, Frankfurt-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Alkali salts of the 3,3'-diamino-4,4'-dioxarsenobenzenes combined with silver and making same. No. 1,127,603; Feb. 9; Gaz. vol. 211; p. 368.
- Ehrlich, William, assignor to Case & Martin Co., Chicago, Ill. Transmission-gearing. No. 1,143,617; June 22; Gaz. vol. 215; p. 987.
- Ehrsam, John. (See Smith, Harold T., assignor.)
- Eib, Charles A., New Brunswick, N. J. Automatic train-stop. No. 1,136,944; Apr. 27; Gaz. vol. 213; p. 1132.
- Eib, Charles A., New Brunswick, N. J. Track device for automatic train-stops. No. 1,136,945; Apr. 27; Gaz. vol. 213; p. 1133.
- Eiber, Frank M., Millvale, Pa. Service-box and lid. No. 1,131,687; Mar. 16; Gaz. vol. 212; p. 709.
- Eibner, Alexander, Munich, Germany. Manufacture of cinnabar. No. 1,137,467; Apr. 27; Gaz. vol. 213; p. 1323.
- Eichberg, Friedrich. (See Winter and Eichberg.)
- Eichel, John. (See Gotty and Eichel.)
- Eichelbaum, Georg, Berlin, assignor to Kalle and Company, Aktiengesellschaft, Bielefeld-on-the-Rhine, Germany. Manufacture of aluminium-acetate compounds. No. 1,132,709; Mar. 23; Gaz. vol. 212; p. 1129.
- Eichengreen, Morris. (See Chambers, Clarence H., assignor.)
- Eiebert, Fritz, Berlin, assignor to Greif and Schlick, Coburg, Germany. Dynamo-electric generator. No. 1,145,575; July 6; Gaz. vol. 216; p. 209.
- Eichholtz, William B., and F. L. Winters, New Orleans, La. Car-signal. No. 1,134,827; Apr. 6; Gaz. vol. 213; p. 269.
- Eichhorn, Albert and J., Camden, N. J. Blank for collapsible boxes. No. 1,125,987; Jan. 26; Gaz. vol. 210; p. 1096.
- Eichhorn, Friedrich, administrator. (See Mauser, Paul.)
- Eichhorn, Hermann. (See Diehl and Eichhorn.)
- Eichhorn, Jesse. (See Eichhorn, Albert and J.)
- Eicin, Donald V., and E. F. and A. H. Zimmerly, Olney, Ill. Towing device for automobiles. No. 1,123,262; Jan. 5; Gaz. vol. 210; p. 20.
- Eichler, Armin, New York, N. Y. Primer and varnish and preparing same. No. 1,133,432; Mar. 30; Gaz. vol. 212; p. 1427.
- Eichler, Armin, New York, N. Y. Paint and varnish. No. 1,133,433; Mar. 30; Gaz. vol. 212; p. 1427.
- Eichler, Artur, Zossen, Germany, assignor, by mesne assignments, to Mergenthaler Linotype Company. Matrix-setting and type-line-casting machine. No. 1,143,370; June 15; Gaz. vol. 215; p. 878.
- Eichwede, Heinrich, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Producing dyes on cotton. No. 1,123,263; Jan. 5; Gaz. vol. 210; p. 21.
- Eickhoff, Arthur F. (See Hoyt, Francis R., assignor.)
- Eickhoff, Frederick H. (See Messerli, John J., assignor.)
- Eiermann, George. (See Desort, Frank, assignor.)
- Eigen, Benno vom, Newark, N. J., assignor to August Goertz & Co. Bag-frame fastener. No. 1,139,826; May 18; Gaz. vol. 214; p. 814.
- Eigen, Benno vom, Newark, N. J., assignor to Aug. Goertz & Co. Safety-catch for bag-frames. No. 1,143,336; June 15; Gaz. vol. 215; p. 865.

Alphabetical list of patentees—Continued.

- Eigenbrot, Harry L., Pittsburgh, Pa., assignor to International Typesetting Machine Company, New York, N. Y. Distributor mechanism for typographical machines. No. 1,152,718; Sept. 7; Gaz. vol. 218; p. 124.
- Eikelberger, John A., Bennington, Kans. Piston-ring compressor. No. 1,147,625; July 20; Gaz. vol. 216; p. 968.
- Eikenberg, Charles F., St. Louis, Mo. Cast enamel bar and fountain work-bench. No. 1,129,183; Feb. 23; Gaz. vol. 211; p. 1006.
- Eiker, Thaddeus B., Asbury Park, N. J. Carbureter. No. 1,132,314; Mar. 16; Gaz. vol. 212; p. 938.
- Eikhoff, Ernest. (See Bicker, Edgar B., assignor.)
- Eiler, Frank L., assignor to Sears, Roebuck and Company, Chicago, Ill. Attachment for bicycles and motor-cycles. No. 1,126,964; Feb. 2; Gaz. vol. 211; p. 105.
- Ellers, Henry A., assignor to The Hornbrook-Price Co., Indianapolis, Ind. Metallic drinking-trough. No. 1,160,498; Nov. 16; Gaz. vol. 220; p. 819.
- Eilers, Hio P., New York, N. Y. Locking-nut. No. 1,123,505; Jan. 5; Gaz. vol. 210; p. 106.
- Eilersen, Richard, Copenhagen, Denmark. Making casein from buttermilk. No. 1,126,429; Jan. 26; Gaz. vol. 210; p. 1255.
- Eilert, Walter O., Valley Center, Kans. Wrench. No. 1,141,786; June 1; Gaz. vol. 215; p. 246.
- Elmand, Peter, Petrograd, Russia. Apparatus for cutting and welding metals. No. 1,162,587; Nov. 30; Gaz. vol. 220; p. 1642.
- Einarson, Pedro A. (See Scotucci and Einarson.)
- Einfieldt, Charles M., Denver, Colo. Automatic elevator-door opening and closing apparatus. No. 1,149,742; Aug. 10; Gaz. vol. 217; p. 552.
- Einrem, David P., Springfield, S. D. Vulcanizer. No. 1,159,197; Nov. 2; Gaz. vol. 220; p. 275.
- Einstein, Alfred C., St. Louis, Mo. Lighting-fixture. No. 1,161,118; Nov. 23; Gaz. vol. 220; p. 1084.
- Einstein, Alfred C., St. Louis, Mo. Lighting-fixture. No. 1,161,119; Nov. 23; Gaz. vol. 220; p. 1085.
- Einstein, Sol. (See Hazleton and Einstein.)
- Einstein, Sol, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Centralized automatic control. No. 1,124,117; Jan. 5; Gaz. vol. 210; p. 312.
- Eirich, Gustav, Hardheim, Germany. Mixing and kneading machine for earthy and mineral materials. No. 1,155,712; Oct. 5; Gaz. vol. 219; p. 135.
- Eisele, Othmar, Vienna, Austria-Hungary. Molding-machine. No. 1,144,180; June 22; Gaz. vol. 215; p. 1184.
- Eiseman, Moses H., assignor of one-half to Worms & Loeb, Chicago, Ill. Fastener for bag-handles. No. 1,129,967; Mar. 2; Gaz. vol. 212; p. 45.
- Eisemann, August H., Philadelphia, Pa. Device for cleaning and polishing knives, forks, and spoons. No. 1,137,468; Apr. 27; Gaz. vol. 213; p. 1323.
- Eisemann, Ernst, Stuttgart, Germany. Storage-battery-charging switch for automobiles. No. 1,125,080; Jan. 19; Gaz. vol. 210; p. 739.
- Eisemann, Frederick P., executor. (See Wertheimer, Benjamin.)
- Eisen, Diedrich. (See Graebe, William C., assignor.)
- Eisenberg, Samuel, Newark, N. J. Toy novelty. No. 1,153,206; Sept. 14; Gaz. vol. 218; p. 334.
- Eisenberg, Samuel, Newark, N. J. Horn. No. 1,153,207; Sept. 14; Gaz. vol. 218; p. 335.
- Eisenhauer, John P., Port Huron, Mich. Filing-envelop for phonograph disk records and other filing purposes. No. 1,154,297; Sept. 21; Gaz. vol. 218; p. 751.
- Eisenbohr, Gustav W. (See Bell, Joseph, assignor.)
- Eisenkramer, Oscar, New York, N. Y. Snap-fastener binding. No. 1,146,696; July 13; Gaz. vol. 216; p. 622.
- Eisenmenger, Joseph, Anthon, Iowa. Fence-post cap. No. 1,130,076; Mar. 2; Gaz. vol. 212; p. 81.
- Eiser, Louis W., Norwood, Ohio. Window. No. 1,153,208; Sept. 14; Gaz. vol. 218; p. 335.
- Eisner, Samuel M., assignor to Self-Raising Seat Appliance Company, Newark, N. J. Chair. No. 1,165,654; Dec. 28; Gaz. vol. 221; p. 1145.
- Eitel, Martin. (See Morris and Eitel.)
- Eitel, Michael, Dubuque, Iowa. Emblematic pin. No. 1,135,781; Apr. 13; Gaz. vol. 213; p. 643.
- Eitner, Berthold, Reineckendorf, near Berlin, assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Measuring apparatus. No. 1,154,620; Sept. 28; Gaz. vol. 218; p. 892.
- Ekedahl, Erik, assignor to Art Metal Construction Company, Jamestown, N. Y. Museum-case. No. 1,146,415; July 13; Gaz. vol. 216; p. 524.
- Ekenberg, Martin, assignor, by mesne assignments, to Wetcarbonizing Limited, London, England. Briquetting of carbonized peat and the like. No. 1,143,951; June 22; Gaz. vol. 215; p. 1101.
- Ekern, Helmer O. and W. L., Flandreau, S. D. Grease-gun. No. 1,129,184; Feb. 23; Gaz. vol. 211; p. 1006.
- Ekern, William L. (See Ekern, Helmer O. and W. L.)
- Ekiss, Carl, Bethany, Ill. Spring-wheel. No. 1,134,828; Apr. 9; Gaz. vol. 213; p. 269.
- Eklund, Carl E., assignor of one-half to E. Posson, Chicago, Ill. Draft-rigging for railway-cars. No. 1,143,580; Aug. 3; Gaz. vol. 217; p. 35.
- Eklund, Alexander, Attleboro, assignor to Sturdy-Cummings Company, Attleboro Falls, Mass. Bracelet-link. No. 1,161,640; Nov. 23; Gaz. vol. 220; p. 1269.
- Eklund, Alexander, Attleboro, assignor to Sturdy-Cummings Company, Attleboro Falls, Mass. Bracelet-link. No. 1,162,227; Nov. 30; Gaz. vol. 220; p. 1520.
- Eklund, Alexander, Attleboro, assignor to Sturdy-Cummings Company, Attleboro Falls, Mass. Bracelet-link. No. 1,162,228; Nov. 30; Gaz. vol. 220; p. 1521.
- Eklund, Walfrid S. (See Payne and Eklund.)
- Ekman, Albert H., and P. J. Gallagher, Spokane, Wash. Disinfectant-container. No. 1,155,343; Oct. 5; Gaz. vol. 219; p. 7.
- Ekman, Peter, Greeley, Colo. Rotary trash-catcher. No. 1,137,469; Apr. 27; Gaz. vol. 213; p. 1323.
- Ekonomou, Gust G., Kalamazoo, Mich. Faucet. No. 1,145,128; July 6; Gaz. vol. 216; p. 54.
- Ekstedt, Ernest D., East St. Louis, Ill. Nutcracker. No. 1,148,893; Aug. 3; Gaz. vol. 217; p. 145.
- Ekström, Per G., Harnäs, Sweden. Apparatus for fermenting sulfate liquor. No. 1,139,507; May 18; Gaz. vol. 214; p. 702.
- Ela, Lewis B., Wollaston, Mass. Game apparatus. No. 1,147,931; July 27; Gaz. vol. 216; p. 1101.
- Elam, William E., Washington, D. C. Shoe-blackening device. No. 1,147,490; July 20; Gaz. vol. 216; p. 921.
- Elastic Wheel Company, The. (See Smith, George W., assignor.)
- Elbaum, Simon, Bayonne, N. J. Pajamas. No. 1,148,367; July 27; Gaz. vol. 216; p. 1259.
- Elberg, John R., Kansas City, Mo. Curtain-door extension. No. 1,162,990; Dec. 7; Gaz. vol. 221; p. 89.
- Elbion, Samuel, New York, N. Y. Safe for toilet articles. No. 1,132,463; Mar. 16; Gaz. vol. 212; p. 991.
- Elbs, John G. (See Jenne, Henry S., assignor.)
- Elco Company, The. (See Chase, Irwin, assignor.)
- Elcoulin, Eli V., Detroit, Mich. Playing-cards. No. 1,153,899; Sept. 21; Gaz. vol. 218; p. 616.
- Elden, Leonard L., Dorchester, Mass., assignor, by mesne assignments, to General Electric Company. Circuit-breaker. No. 1,145,235; July 6; Gaz. vol. 216; p. 92.
- Elden, Leonard L., Dorchester, Mass., assignor, by mesne assignments, to General Electric Company. Mechanism for the control of circuit-breakers. No. 1,157,930; Oct. 26; Gaz. vol. 219; p. 1028.
- Elder, Edward H., Chicopee, assignor to National Blank Book Company, Holyoke, Mass. Locking binder-back for loose-leaf books. No. 1,128,268; Feb. 9; Gaz. vol. 211; p. 602.
- Elder, Edward H., Chicopee Falls, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,163,601; Dec. 7; Gaz. vol. 221; p. 303.
- Elder, Edward H., Chicopee Falls, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,165,766; Dec. 28; Gaz. vol. 221; p. 1185.
- Elder, Edward H., Chicopee Falls, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,165,767; Dec. 28; Gaz. vol. 221; p. 1186.
- Elder, John, New York, N. Y. Device for testing pipes or pipe-joints. No. 1,133,714; Mar. 30; Gaz. vol. 212; p. 1530.
- Elder, William A., Oakmont, Pa., and W. P. Paget, Fowler, Ind. Valve. No. 1,125,675; Jan. 19; Gaz. vol. 210; p. 953.
- Eldot, Morris, and J. M. Danzig, Brooklyn, assignors, by mesne assignments, to The Danzelo Sales Company, Inc., New York, N. Y. Printing apparatus. No. 1,124,402; Jan. 12; Gaz. vol. 210; p. 461.
- Eldred, Arthur B., Paola, Kans. Portable knockdown floor. No. 1,160,155; Nov. 16; Gaz. vol. 220; p. 700.
- Eldred, Byron E., Bronxville, N. Y. Making contact-points. No. 1,130,077; Mar. 2; Gaz. vol. 212; p. 82.
- Eldred, Byron E., Bronxville, N. Y. Artificial tooth and making same. No. 1,133,434; Mar. 30; Gaz. vol. 212; p. 1427.
- Eldred, Byron E., assignor to The Commercial Research Company, New York, N. Y. Incandescent lamp. No. 1,140,134; May 18; Gaz. vol. 214; p. 924.
- Eldred, Byron E., assignor to The Commercial Research Company, New York, N. Y. Production of compound metal articles. No. 1,140,135; May 18; Gaz. vol. 214; p. 925.
- Eldred, Byron E., assignor to The Commercial Research Company, New York, N. Y. Low-expansion wire. No. 1,140,136; May 18; Gaz. vol. 214; p. 925.
- Eldredge, Clyde T., Mountain Ranch, Cal. Motor-truck. No. 1,165,161; Dec. 21; Gaz. vol. 221; p. 935.
- Eldredge, Elmer E., Chevy Chase, D. C. Desiccating apparatus. No. 1,134,731; Apr. 6; Gaz. vol. 213; p. 237.
- Eldridge, Albert J., Buffalo, assignor to Lidgerwood Manufacturing Company, New York, N. Y. Thrust mechanism. No. 1,165,655; Dec. 28; Gaz. vol. 221; p. 1146.
- Eldridge, Frederick P., Northampton, Mass. Cabinet. No. 1,152,404; Sept. 7; Gaz. vol. 218; p. 8.
- Eldridge, John A., Acton, Me., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting boots and shoes. No. 1,145,979; July 13; Gaz. vol. 216; p. 371.
- Eldridge, Joseph D., New York, N. Y. Sealing device. No. 1,137,592; Apr. 27; Gaz. vol. 213; p. 1364.
- Eldridge, William E., Boston, Mass. Tractor for wagons and the like. No. 1,155,713; Oct. 5; Gaz. vol. 219; p. 135.
- Electra Lightning Rod Company. (See Swenson, John S., assignor.)
- Electrelle Company. (See Dorricott, Charles W., assignor.)

Alphabetical list of patentees—Continued.

- Electric Bank Protection Company. (See Williams, John P., assignor.)
- Electric Boat Company. (See Davison, Gregory C., assignor.)
- Electric Boat Company. (See Davison and Anderson, assignors.)
- Electric Boat Company. (See Epes, Henry S., assignor.)
- Electric Boat Company. (See Grieshaber, Hugo, assignor.)
- Electric Boat Company. (See Spear, Lawrence Y., assignor.)
- Electric Carrier Company. (See McLeer, Charles B. and J. F., assignors.)
- Electric Controller and Manufacturing Company. (See Hall, Jay H., assignor.)
- Electric Controller and Manufacturing Company, The. (See Rippl, Charles H., assignor.)
- Electric Controller and Manufacturing Company, The. (See Stratton, Harry F., assignor.)
- Electric Heat Storage Company, The. (See Joyce, Victor E., assignor.)
- Electric Mail Carrier Company. (See Griffiths, William J., Jr., assignor.)
- Electric Movograph Company. (See Partridge and Hummel, assignors.)
- Electric & Ordnance Accessories Company, The. (See Langley and Price, assignors.)
- Electric Ore Separator Company. (See Weatherby, Joseph, assignor.)
- Electric Railway Improvement Company, The. (See Cadle, Charles L., assignor.)
- Electric Railway Improvement Company, The. (See Cleveland, William B., assignor.)
- Electric Railway Improvement Company, The. (See Herrick, Albert B., assignor.)
- Electric Service Supplies Company. (See Ebersole, Cyrus P., assignor.)
- Electric Service Supplies Company. (See Sharples, Alfred R., assignor.)
- Electric Smelting and Aluminum Company, The. (See Cowles, Alfred H., assignor.)
- Electric Spark Appliance Co. (See Grubman, Leo, assignor.)
- Electric Storage Battery Company, The. (See Entz, Justus B., assignor.)
- Electric Storage Battery Company, The. (See Hull and Woodbridge, assignors.)
- Electric Storage Battery Company, The. (See Myers, Herbert G., assignor.)
- Electric Tachometer Company, The. (See Hopkins, Nevil M., assignor.)
- Electric Tachometer Company, The. (See Kolff and Hollyday, assignors.)
- Electric Time Recorder Company. (See Radtke, Albert A., assignor.)
- Electric Time Recorder Company. (See Straub, William F., assignor.)
- Electric Time Recorder Company. (See Straub and Radtke, assignors.)
- Electric Water Sterilizer Company. (See Hartman, Harry B., assignor.)
- Electric Weighing Company. (See Messiter, Edwin H., assignor.)
- Electrical Engineers Equipment Company. (See Sessions, Edson O., assignor.)
- Electrical Refrigerating Company, The. (See Williams, Edward T., assignor.) (Reissue.)
- Electrical Steam Radiator Co. (See Ross, John D., assignor.)
- Electro Bleaching Gas Company. (See Ornstein, Georg, assignor.)
- Electro Chemical Products Association. (See Schulte, Louis, assignor.)
- Electro-Chemical Rubber & Manufacturing Company. (See Daft, Leo, assignor.)
- Electro Dental Manufacturing Company. (See Schramm, Adolph W., assignor.)
- Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
- Electro Metallurgical Company. (See Harrison, Herbert C., assignor.)
- Electro Pneumatic Skid Company. (See Stansell and Oland, assignors.)
- Electromobile Company, The. (See Bernheimer, Sanford J., assignor.)
- Electron Chemical Company. (See Allen, Edward A. and H. I., assignors.)
- Elekes, Louis, Heatherman, W. Va. Shoe-cleaning machine. No. 1,128,767; Feb. 16; Gaz. vol. 211; p. 823.
- Elektrizitäts-Aktiengesellschaft Hydraulwerk. (See Schröter, Fritz, assignor.)
- Elektro-Osmose A. G. (Graf Schwerin Gesellschaft). (See Schwerin, Rother, assignor.)
- Elery, William, Menlo, Iowa. Attachment for mowing machines. No. 1,155,305; Sept. 28; Gaz. vol. 218; p. 1122.
- Elevator Locks Co. (See McKinney, Samuel L., assignor.)
- Elevator Supply and Repair Company. (See Bowne, John D., assignor.)
- Elevator Supply & Repair Company. (See Moore, Charles E., assignor.)
- Elevator Supply & Repair Company. (See Newbury, Henry F., assignor.)
- Elevator Supply & Repair Company. (See Newell, Emerson R., assignor.)
- Elevator Supply & Repair Company. (See Nordoff, Max, assignor.)
- Elevator Supply & Repair Company. (See Wyld and Schenck, assignors.) (Reissue.)
- Elfborg, Henry G., Chicago, Ill. Guard-rail. No. 1,135,272; Apr. 13; Gaz. vol. 213; p. 465.
- Elfenbein, Isidor, assignor to Unique Head Easer Incorporated, New York, N. Y. Head-easer. No. 1,133,114; Mar. 23; Gaz. vol. 212; p. 1279.
- Elfers, George A. (See Engelfried and Elfers.)
- Elfes, August. (See Fleischmann and Elfes.)
- Elfreich, Otto W. R., New York, N. Y. Burner attachment for gas-jets. No. 1,127,972; Feb. 9; Gaz. vol. 211; p. 499.
- Elgin American Manufacturing Co. (See Hathaway, Thomas F., assignor.)
- Eli Lilly and Company, The. (See Bye, Mortimer, assignor.)
- Eli Lilly and Company, The. (See Davis, Alex B., assignor.)
- Eli Lilly and Company, The. (See Lilly, Josiah K., assignor.)
- Elia, Giovanni E., Rome, Italy, assignor to Vickers Limited, London, England. Firing apparatus for submarine mines. No. 1,124,000; Jan. 5; Gaz. vol. 210; p. 271.
- Elia, Giovanni E., Rome, Italy, assignor to Vickers Limited, London, England. Explosive barrier. No. 1,140,137; May 18; Gaz. vol. 214; p. 925.
- Elia, Giovanni E., Paris, France, assignor to Vickers Limited, Westminster, England. Safety-anchor for submarine mines. No. 1,153,774; Sept. 14; Gaz. vol. 218; p. 537.
- Elia, James, Chicago, Ill. Handle-switch. No. 1,127,973; Feb. 9; Gaz. vol. 211; p. 500.
- Elite Manufacturing Company, The. (See Burkholder, John H., assignor.)
- Elixman Paper Core Company, The. (See Elixman, Theodore, assignor.)
- Elixman, Theodore, assignor to The Elixman Paper Core Company, Corinth, N. Y. Reinforcing-bushing for cores. No. 1,137,470; Apr. 27; Gaz. vol. 213; p. 1323.
- Elkes, Morris S., Newark, N. J. Envelop. No. 1,135,444; Apr. 13; Gaz. vol. 213; p. 526.
- Elkhart Manufacturing Company, The. (See Williams, Fred B., assignor.)
- Elkin, Abraham, Brooklyn, N. Y. Coaster-brake. No. 1,135,883; Apr. 13; Gaz. vol. 213; p. 680.
- Elkins, Henry O., Bath, N. Y. Container. No. 1,144,643; June 29; Gaz. vol. 215; p. 1369.
- Elkins, Otto B., Abbeville, assignor of one-half to C. S. Clements, Rochelle, Ga. Corn-chopper. No. 1,165,162; Dec. 21; Gaz. vol. 221; p. 935.
- Elkinton, William T. (See Hargrave and Wheeler, assignors.)
- Elkinton, William T. (See Wheeler and Elkinton.)
- Ellendt, John G., Rochester, N. Y. Apparatus for cleaning bags. No. 1,156,280; Oct. 12; Gaz. vol. 219; p. 355.
- Ellerman, Edward, Denver, Colo. Convertible coaster. No. 1,140,805; May 25; Gaz. vol. 214; p. 1190.
- Ellerton, George C., United States Navy. Safety device for marine-engines. No. 1,123,264; Jan. 5; Gaz. vol. 210; p. 21.
- Ellery, Robert L., Toledo, Ohio. Valve. No. 1,141,870; June 1; Gaz. vol. 215; p. 272.
- Ellery, William, San Francisco, Cal. Case for hunting-knives and the like. No. 1,123,862; Jan. 5; Gaz. vol. 210; p. 227.
- Ellett, Frederick S., Elmira, N. Y. Engine-starting device for motor-cycles. No. 1,141,787; June 1; Gaz. vol. 215; p. 246.
- Ellett, Frederick S., Elmira, N. Y. Two-speed gear for motor-cycles. No. 1,149,901; Aug. 10; Gaz. vol. 217; p. 610.
- Ellett, Frederick S., Elmira, N. Y. Coaster-brake for motor-cycles. No. 1,154,915; Sept. 28; Gaz. vol. 218; p. 991.
- Ellett, Frederick S., assignor to Eclipse Machine Company, Elmira, N. Y. Bicycle-hub. No. 1,143,261; June 15; Gaz. vol. 215; p. 840.
- Elling, Jens W. A., Christiania, Norway. Spring for vehicles, especially autocars. No. 1,130,157; Mar. 2; Gaz. vol. 212; p. 109.
- Ellingen, Karl, assignor to Dr. C. Otto & Comp. Ges. mit Beschr. Haftung, Bochum, Germany. Coke-oven. No. 1,154,298; Sept. 21; Gaz. vol. 218; p. 752.
- Ellinger, Julian O., New York, N. Y. Collapsible metallic structure. No. 1,140,448; May 25; Gaz. vol. 214; p. 1067.
- Ellinger, Julian O., New York, N. Y. Metallic column, &c. No. 1,141,385; June 1; Gaz. vol. 215; p. 107.
- Ellinger, Julian O., New York, N. Y. Collapsible concrete reinforcement. No. 1,142,031; June 8; Gaz. vol. 215; p. 370.
- Ellinger, Julian O., New York, N. Y. Reinforced concrete construction. No. 1,145,576; July 6; Gaz. vol. 216; p. 209.
- Ellinger, Julian O., New York, N. Y. Reinforcement for concrete construction. No. 1,145,577; July 6; Gaz. vol. 216; p. 210.

- Ellinger, Julian O., New York, N. Y. Barrel. No. 1,155,344; Oct. 5; Gaz. vol. 219; p. 7.
- Ellinger, Julian O., assignor of one-half to Universal Electric Welding Company, New York, N. Y. Armor or other metal plate. No. 1,142,241; June 8; Gaz. vol. 215; p. 443.
- Ellinger, Julian O., assignor of one-half to Universal Electric Welding Company, New York, N. Y. Form for concrete construction. No. 1,142,805; June 15; Gaz. vol. 215; p. 679.
- Elliott, Adam S., Detroit, Mich. Permutation-lock. No. 1,159,479; Nov. 9; Gaz. vol. 220; p. 405.
- Elliott, William, Jr., Lawrence, Mass. Machine for marking bobbins. No. 1,153,679; Sept. 14; Gaz. vol. 213; p. 503.
- Elliott, William H., St. Louis, Mo. Adjustable switch-operating device. No. 1,165,080; Dec. 21; Gaz. vol. 221; p. 905.
- Elliott, Alberta C., Rincon, N. Mex. Closure for receptacles. No. 1,159,198; Nov. 2; Gaz. vol. 220; p. 275.
- Elliott, Alexander D., Chicago, Ill. Garment-supporter loop. No. 1,127,604; Feb. 9; Gaz. vol. 211; p. 368.
- Elliott, Alonzo E., Raymond, Wash. Conveyor-bucket. No. 1,153,375; Sept. 14; Gaz. vol. 218; p. 396.
- Elliott, Claude B., and E. Kurtz, Hempstead, Tex. Buggy-axle. No. 1,140,138; May 18; Gaz. vol. 214; p. 926.
- Elliott, Edward O., Philadelphia, Pa. Brake-beam safety-banger. No. 1,147,793; July 27; Gaz. vol. 216; p. 1052.
- Elliott, Edward T. (See Allan and Elliott.)
- Elliott-Fisher Company. (See Culverwell, Joseph F., assignor.)
- Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
- Elliott-Fisher Company. (See Laganke and Smith, assignors.)
- Elliott-Fisher Company. (See Martin, Olaf O., assignor.)
- Elliott-Fisher Company. (See Parmly, Eleazar, Jr., assignor.)
- Elliott-Fisher Company. (See Smith, Robert C., assignor.)
- Elliott-Fisher Company. (See Stephenson, Edwin N., assignor.)
- Elliott-Fisher Company. (See Wellman, Harvey P., assignor.)
- Elliott-Fisher Company. (See Ziegler, Joram, assignor.)
- Elliott, Frank F. (See Knowlton and Elliott.)
- Elliott, Frederick A. (See Bradley and Elliott.)
- Elliott, George F., Washington, D. C. Stopper for bottles. No. 1,157,518; Oct. 19; Gaz. vol. 219; p. 823.
- Elliott, George W., De Smet, S. D. Traction-wheel. No. 1,156,471; Oct. 12; Gaz. vol. 219; p. 424.
- Elliott, Gertrude A., Detroit, Mich. Pillow-holder. No. 1,140,583; May 25; Gaz. vol. 214; p. 1115.
- Elliott, Harmon P., Cambridge, Mass. Forming stencil-sheets. No. 1,136,591; Apr. 20; Gaz. vol. 213; p. 972.
- Elliott, Harvey, assignor to A. M. Parker, Detroit, Mich. Driving-clutch. No. 1,143,371; June 15; Gaz. vol. 215; p. 877.
- Elliott, Hugh D., Skamokawa, Wash. Bell-ringing device. No. 1,136,781; Apr. 20; Gaz. vol. 213; p. 1638.
- Elliott, James B., Riverton, N. J. Coupling. No. 1,138,946; May 11; Gaz. vol. 214; p. 468.
- Elliott, James R., Denver, Colo. Ventilator. No. 1,134,259; Apr. 6; Gaz. vol. 213; p. 65.
- Elliott, John K., Milliken, assignor to The Elliott Manufacturing Company, Weld county, Colo. Sewing-machine attachment. No. 1,128,963; Feb. 16; Gaz. vol. 211; p. 895.
- Elliott, Lafayette H., Waverly, W. Va. Hasp-fastener. No. 1,162,588; Nov. 30; Gaz. vol. 220; p. 1643.
- Elliott Manufacturing Company, The. (See Elliott, John K., assignor.)
- Elliott, Richard P. (See Benmosche and Elliott.)
- Elliott, Richard P., Boston, Mass. Making and incorporating stiffening-pieces in the forepart of boots and shoes. No. 1,137,850; May 4; Gaz. vol. 214; p. 44.
- Elliott, Robert G., South Bartonville, Ill. Mechanical movement. No. 1,162,464; Nov. 30; Gaz. vol. 220; p. 1602.
- Elliott, Roy D., San Francisco, Cal. Preserving organic material. No. 1,126,430; Jan. 26; Gaz. vol. 210; p. 1255.
- Elliott, Samuel K., San Diego, and L. C. Pond, Los Angeles, Cal.; said Pond assignor to said Elliott. Hose-nozzle. No. 1,140,259; May 18; Gaz. vol. 214; p. 966.
- Elliott, Stephen E., West Salem, Ill. Trap-nest. No. 1,127,210; Feb. 2; Gaz. vol. 211; p. 192.
- Elliott, Sterling, Newton, Mass. Machine for making stencil-strips. No. 1,140,889; May 25; Gaz. vol. 214; p. 1222.
- Elliott, Sterling, Newton, Mass. Stencil-cutting machine. No. 1,163,744; Dec. 14; Gaz. vol. 221; p. 399.
- Elliott, Thomas. (See Anderson and Elliott.)
- Elliott, Thomas. (See Oberling and Elliott.)
- Elliott, Thomas, Cincinnati, Ohio. Guard for the windows of passenger-cars. No. 1,148,012; July 27; Gaz. vol. 216; p. 1130.
- Elliott, Thomas, Cincinnati, Ohio, and W. E. Moore, Pittsburgh, Pa. Center-bearing for cars. No. 1,144,644; June 29; Gaz. vol. 215; p. 1370.
- Elliott, William E., Grand Rapids, Mich. Button-setting machine. No. 1,147,381; July 20; Gaz. vol. 216; p. 882.
- Elliott, William E., Grand Rapids, Mich. Mounting for combined shoe-buttons and staples. No. 1,147,382; July 20; Gaz. vol. 216; p. 883.
- Elliott, William E., Liverpool, England, assignor to Mergenthaler Linotype Company. Typographical composing and distributing machine. No. 1,158,662; Nov. 2; Gaz. vol. 220; p. 89.
- Elliott, William E., Liverpool, England, assignor to Mergenthaler Linotype Company. Matrices of typographical composing and distributing machines for display-work, head-lines, and the like. No. 1,158,663; Nov. 2; Gaz. vol. 220; p. 90.
- Elliott, William E., and D. S. Cole, Grand Rapids, Mich.; said Cole assignor to said Elliott. Hand button-attaching tool. No. 1,156,518; Apr. 20; Gaz. vol. 213; p. 946.
- Elliott, William J., assignor to A. Kessell, Philadelphia, Pa. Latch-opening mechanism for knitting-machines. No. 1,139,173; May 11; Gaz. vol. 214; p. 549.
- Elliott, William J., assignor to A. Kessell, Philadelphia, Pa. Latch protector or preserver. No. 1,139,262; May 11; Gaz. vol. 214; p. 579.
- Elliott, William S., Pittsburgh, Pa. Multiple-unit heater. No. 1,139,172; May 11; Gaz. vol. 214; p. 549.
- Ellis, Alfred J., and C. E. Nellis, Woodcliff-on-Hudson, N. J., assignors to A. J. Ellis, Inc. Apparatus for forming sheet metal into shape. No. 1,142,242; June 8; Gaz. vol. 215; p. 443.
- Ellis, Alvarado L. R., Lynn, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 1,154,979; Sept. 28; Gaz. vol. 218; p. 1013.
- Ellis, Arthur G., East Liverpool, Ohio. Explosive-engine. No. 1,138,648; May 11; Gaz. vol. 214; p. 362.
- Ellis, Avard A., Denver, Colo., assignor to The American Tampon and Applicator Company. Applicator. No. 1,131,349; Mar. 9; Gaz. vol. 212; p. 556.
- Ellis, Benjamin F., and G. D. Greene, Los Angeles, Cal. Underground cesspool. No. 1,150,510; Aug. 17; Gaz. vol. 217; p. 886.
- Ellis, Carleton, Montclair, N. J. Detoxicating oil and the like. No. 1,132,710; Mar. 23; Gaz. vol. 212; p. 1129.
- Ellis, Carleton, Montclair, N. J. Hydrogenating unsaturated organic material. No. 1,138,201; May 4; Gaz. vol. 214; p. 168.
- Ellis, Carleton, Montclair, N. J. Edible fat complex and making the same. No. 1,151,002; Aug. 24; Gaz. vol. 217; p. 1113.
- Ellis, Carleton, Montclair, N. J. Catalytic material and making same. No. 1,151,003; Aug. 24; Gaz. vol. 217; p. 1113.
- Ellis, Carleton, Montclair, N. J. Adding hydrogen to fatty acids, fatty esters, and other unsaturated compounds. No. 1,154,495; Sept. 21; Gaz. vol. 218; p. 819.
- Ellis, Carleton, Montclair, N. J. Catalyst and making same. No. 1,156,068; Oct. 12; Gaz. vol. 219; p. 285.
- Ellis, Carleton, Montclair, N. J. Making catalysts. No. 1,156,674; Oct. 12; Gaz. vol. 219; p. 496.
- Ellis, Carleton, Montclair, N. J. Composition for treating oil. No. 1,158,664; Nov. 2; Gaz. vol. 220; p. 90.
- Ellis, Carleton, Montclair, N. J. Semireduced hydrogenation-catalyzer. No. 1,159,480; Nov. 9; Gaz. vol. 220; p. 406.
- Ellis, Carleton, Montclair, N. J. Catalytic metal powder. No. 1,165,956; Dec. 28; Gaz. vol. 221; p. 1249.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 1,130,499; Mar. 2; Gaz. vol. 212; p. 231.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover-applying device. No. 1,139,353; May 11; Gaz. vol. 214; p. 609.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Chlorinating aromatic hydrocarbons including toluol. No. 1,146,142; July 13; Gaz. vol. 216; p. 428.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 1,160,394; Nov. 16; Gaz. vol. 220; p. 782.
- Ellis, Carleton, Montclair, N. J., assignor to New Jersey Testing Laboratories. Treating masses of concrete. No. 1,130,717; Mar. 9; Gaz. vol. 212; p. 340.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Treating lead. No. 1,141,177; June 1; Gaz. vol. 215; p. 31.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Apparatus for making white lead. No. 1,144,701; June 29; Gaz. vol. 215; p. 1390.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Cementitious product. No. 1,151,515; Aug. 24; Gaz. vol. 217; p. 1287.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 1,140,449; May 25; Gaz. vol. 214; p. 1068.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Paint and varnish remover. No. 1,143,110; June 15; Gaz. vol. 215; p. 786.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Paint and varnish remover. No. 1,143,111; June 15; Gaz. vol. 215; p. 786.

Alphabetical list of patentees—Continued.

- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 1,145,980; July 13; Gaz. vol. 216; p. 371.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Paint or varnish remover. No. 1,147,848; July 27; Gaz. vol. 216; p. 1073.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Paint or varnish remover. No. 1,147,849; July 27; Gaz. vol. 216; p. 1073.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Pyroxylin composition. No. 1,147,850; July 27; Gaz. vol. 216; p. 1073.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 1,147,851; July 27; Gaz. vol. 216; p. 1073.
- Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover and the preparation thereof. No. 1,147,852; July 27; Gaz. vol. 216; p. 1073.
- Ellis, Carleton, White Plains, assignor to Chadeloid Chemical Company, New York, N. Y. Paint and varnish remover. No. 1,146,854; July 20; Gaz. vol. 216; p. 697.
- Ellis Carriage Works. (See La Roque, Lloyd M., assignor.)
- Ellis Drier & Elevator Company. (See Ellis, Hubert C., assignor.)
- Ellis, Edison B., and J. M. Henderson, Waurika, Okla. Stalk-cutter. No. 1,162,589; Nov. 30; Gaz. vol. 220; p. 1643.
- Ellis, Edwin H. (See Smith, Oliver C., assignor.)
- Ellis, Elmer E., Pomona, Cal. Hammer-handle attachment. No. 1,142,946; June 15; Gaz. vol. 215; p. 728.
- Ellis, Fenwick L., assignor to R. E. Gavin, Buffalo, N. Y. Testing device for liquid-evaporators. No. 1,148,506; Aug. 3; Gaz. vol. 217; p. 7.
- Ellis-Foster Company. (See Ellis, Carleton, assignor.)
- Ellis, Frank E., Revere, Mass. Printing-blanket. No. 1,158,033; Oct. 26; Gaz. vol. 219; p. 1065.
- Ellis, Fred, St. Louis, Mo., assignor to United Shoe Machinery Company, Paterson, N. J. Holddown. No. 1,138,855; May 11; Gaz. vol. 214; p. 438.
- Ellis, Frederic R., assignor to B. F. Sturtevant Company, Boston, Mass. Straining device. No. 1,160,154; Nov. 16; Gaz. vol. 220; p. 699.
- Ellis, Frederick A., London, England. Manufacture of wheels. No. 1,134,674; Apr. 6; Gaz. vol. 213; p. 216.
- Ellis, Frederick A., London, England. Detachable vehicle-wheel. No. 1,151,450; Aug. 24; Gaz. vol. 217; p. 1263.
- Ellis, George H., St. Paul, Minn. Composite lath and heat-insulating material. No. 1,126,186; Jan. 26; Gaz. vol. 210; p. 1170.
- Ellis, George H., St. Paul, Minn. Composite lath and heat-insulating material. No. 1,126,187; Jan. 26; Gaz. vol. 210; p. 1170.
- Ellis, George H., St. Paul, Minn. Refrigerator-car floor. No. 1,137,197; Apr. 27; Gaz. vol. 213; p. 1224.
- Ellis, George M., Arthur, Iowa. Acetylene-gas generator. No. 1,135,002; Apr. 13; Gaz. vol. 213; p. 373.
- Ellis, Halcolm, East Orange, N. J. Machine for calculation and printing the results of said calculations. No. 1,133,321; Apr. 20; Gaz. vol. 213; p. 874.
- Ellis, Hartley, Cleveland, Ohio. Barrel-head. No. 1,161,203; Nov. 23; Gaz. vol. 220; p. 1116.
- Ellis, Henry F., Canton, S. D. Irrigating apparatus. No. 1,159,658; Nov. 9; Gaz. vol. 220; p. 468.
- Ellis, Hubert C., assignor to Ellis Drier & Elevator Company, Chicago, Ill. Grain-drier. No. 1,127,974; Feb. 9; Gaz. vol. 211; p. 500.
- Ellis, Jane L., Buffalo, N. Y. Educational device. No. 1,142,947; June 15; Gaz. vol. 215; p. 729.
- Ellis, John, Salem, Mo. Throttle-valve. No. 1,130,500; Mar. 2; Gaz. vol. 212; p. 232.
- Ellis, John R., Memphis, Tenn. Resilient wheel. No. 1,157,855; Oct. 26; Gaz. vol. 219; p. 1002.
- Ellis, John W., assignor of one-fourth to J. Kirschwing, Great Falls, Mont. Collapsible receptacle. No. 1,133,715; Mar. 30; Gaz. vol. 212; p. 1530.
- Ellis, Joseph W., Ellesmere Port, England. Jointing metal bars. No. 1,150,258; Aug. 17; Gaz. vol. 217; p. 799.
- Ellis, Luther B., Minneapolis, Minn. Mop pad and wringer. No. 1,148,490; July 27; Gaz. vol. 216; p. 1299.
- Ellis, Mark S., U. S. Navy. Self-scoring target. No. 1,131,549; Mar. 9; Gaz. vol. 212; p. 626.
- Ellis, Robert G., assignor to American Car and Foundry Company, St. Louis, Mo. Bracing for carlines. No. 1,140,668; May 25; Gaz. vol. 214; p. 1144.
- Ellis, Thomas J., Loda, Ill. Mop. No. 1,127,875; Feb. 9; Gaz. vol. 211; p. 466.
- Ellis, Warren E., Haverhill, Mass., assignor to W. E. Ellis Company. Bow-making machine. No. 1,127,605; Feb. 9; Gaz. vol. 211; p. 369.
- Ellis, Warren E., Haverhill, Mass., assignor to W. E. Ellis Company. Bow. No. 1,158,465; Nov. 2; Gaz. vol. 220; p. 19.
- Ellis, Warren E., Haverhill, Mass., assignor to W. E. Ellis Company. Bow. No. 1,158,466; Nov. 2; Gaz. vol. 220; p. 19.
- Ellis, William, Kenton, Ohio. Spark-plug. No. 1,125,988; Jan. 26; Gaz. vol. 210; p. 1096.
- Ellis, William C., Victoria, Va. Clothes-pounder. No. 1,127,606; Feb. 9; Gaz. vol. 211; p. 369.
- Ellis, Willoughby. (See Stewart, Francis A., assignor.)
- Ellison, Edward H., assignor to Art Metal Construction Company, Jamestown, N. Y. Compressor for filing-drawers. No. 1,129,282; Feb. 23; Gaz. vol. 211; p. 1040.
- Elison, Frederick C., Perth Amboy, N. J., assignor of one-half to W. H. Peach, Zanesville, Ohio. Tile-coating machine. No. 1,130,383; Mar. 2; Gaz. vol. 212; p. 188.
- Elison, Lewis M., Chicago, Ill. Gas-collector. No. 1,128,669; Feb. 16; Gaz. vol. 211; p. 790.
- Elison, Lewis M., Chicago, Ill. Draft-gage. No. 1,145,676; July 6; Gaz. vol. 216; p. 244.
- Elison, Olef M., Chicago, Ill. Sportsman's boat. No. 1,148,961; Aug. 3; Gaz. vol. 217; p. 169.
- Elison, Thomas J., Terrill, Ky. Animal-trap. No. 1,149,100; Aug. 10; Gaz. vol. 217; p. 352.
- Elisson, Cornelius S., Granville county, N. C. Railway-rail joint. No. 1,134,321; Apr. 6; Gaz. vol. 213; p. 88.
- Elisma, Abraham, and S. Paull, assignors of one-third to S. Gitelman, New York, N. Y. Bathing-suit pocket. No. 1,142,509; June 8; Gaz. vol. 215; p. 539.
- Elman, Walter, Long Island, N. Y. Music-leaf turner. No. 1,131,125; Mar. 9; Gaz. vol. 212; p. 479.
- Elmauerer, John F., Ellsworth, Wis. Compound railway-rail. No. 1,128,237; Feb. 9; Gaz. vol. 211; p. 591.
- Ellsworth & Cross. (See Duffy, Thomas I., assignor.)
- Ellsworth, Stanley F., St. James, Minn. Duplicate-sales-slip file. No. 1,129,458; Feb. 23; Gaz. vol. 211; p. 1103.
- Ellwood, Clarence W., Vermont, Wis. Foldable partition. No. 1,141,110; June 1; Gaz. vol. 215; p. 7.
- Ellwood, Thomas B., Marshall, Tex., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Angle-cock device. No. 1,131,224; Mar. 9; Gaz. vol. 212; p. 514.
- Elmer, James P., St. Paul, Minn., assignor to Moore Patent Car Company. Heater-car. No. 1,156,988; Oct. 19; Gaz. vol. 219; p. 635.
- Elmes, Devereux, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Primary battery. No. 1,138,363; May 4; Gaz. vol. 214; p. 227.
- Elmore, Guy H., Swarthmore, Pa. Jig. No. 1,132,464; Mar. 16; Gaz. vol. 212; p. 991.
- Elmore, Guy H., Swarthmore, Pa., assignor to W. O. Elmore, Oneonta, N. Y. Jig. No. 1,149,641; Aug. 10; Gaz. vol. 217; p. 518.
- Elmore, Oliver, Louisville, Ky. Horseshoe. No. 1,152,497; Sept. 7; Gaz. vol. 218; p. 41.
- Elmore, Thomas L., Baker, Fla. Winch. No. 1,150,351; Aug. 17; Gaz. vol. 217; p. 832.
- Elmore, William O. (See Elmore, Guy H., assignor.)
- Elms, Joseph A., Somerville, Mass. Electric telegraph apparatus. No. 1,158,665; Nov. 2; Gaz. vol. 220; p. 90.
- Eloesser, Carl, Charlottenburg, Germany. Transmission-gearing. No. 1,140,890; May 25; Gaz. vol. 214; p. 1222.
- Elrod, Abraham, Seymour, Ind. Saw-grinding machine. No. 1,153,297; Sept. 14; Gaz. vol. 218; p. 366.
- Elsas, Edward J., Kansas City, Mo. Hydroaeroplane. No. 1,127,211; Feb. 2; Gaz. vol. 211; p. 193.
- Elsas, Herman. (See Stone, Wilbur M., assignor.)
- Elsas, Herman, trustee. (See Schiuschool, Erich, assignor.)
- Elser, John, assignor to Welsbach Light Company, Gloucester City, N. J. By-pass gas-cock. No. 1,140,026; May 18; Gaz. vol. 214; p. 885.
- Elser, William. (See Collins, Adelbert W., assignor.)
- Elseor, John A., Portland, assignor to E. A. Hill, Astoria, Oreg. Combination-lock. No. 1,147,794; July 27; Gaz. vol. 216; p. 1052.
- Elsey, Prestley C., Quincy, Ill., assignor to A. V. Fly, New London, Mo. Road-scraper. No. 1,166,197; Dec. 28; Gaz. vol. 221; p. 1338.
- Elsmann, Ralph, San Francisco, and C. Dallerup, San Rafael, Cal. Combined switch and fuse. No. 1,138,857; May 11; Gaz. vol. 214; p. 438.
- Elster, Johannes. (See Ziegenberg, Rudolf, assignor.)
- Elston, Charles A., Moody, Okla. Punching-machine. No. 1,154,621; Sept. 23; Gaz. vol. 218; p. 892.
- Elverson, Howard W., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Bolster. No. 1,134,260; Apr. 6; Gaz. vol. 213; p. 65.
- Elvin, Albert G., Somerville, N. J. Mechanical stoker. No. 1,128,428; Feb. 16; Gaz. vol. 211; p. 707.
- Elvin, Albert G., Somerville, N. J. Mechanical stoker. No. 1,137,471; Apr. 27; Gaz. vol. 213; p. 1324.
- Elvin, Albert G., Somerville, N. J., and J. L. Mohun, Brooklyn, N. Y., assignors, by mesne assignments, to Franklin Railway Supply Company, Wilmington, Del. Connection for locomotive drifting-valves. No. 1,141,111; June 1; Gaz. vol. 215; p. 8.
- Elvin, Albert G., Somerville, N. J., and J. L. Mohun, Brooklyn, N. Y.; said Mohun assignor to said Elvin. Fire-door pedal device. No. 1,148,582; Aug. 3; Gaz. vol. 217; p. 36.
- Elvin, Albert G., Somerville, N. J., and F. W. Martin, New York, N. Y.; said Martin assignor to said Elvin. Pedal device for fire-doors. No. 1,148,581; Aug. 3; Gaz. vol. 217; p. 36.

Alphabetical list of patentees—Continued.

- Elvyn, Jacob W., and E. A. Christopb, Chicago, Ill. Coin-receptacle. No. 1,152,937; Sept. 7; Gaz. vol. 218; p. 205.
- Elwell, Edgar H., Dawson, Yukon, Canada. Pliers. No. 1,124,118; Jan. 5; Gaz. vol. 210; p. 313.
- Elwing, John E., McCleary, Wash. Cutting-gage for veneer-clippers. No. 1,127,975; Feb. 9; Gaz. vol. 211; p. 500.
- Ely, A. V. (See Elsey, Prestley C., assignor.)
- Ely, Clement A., Wolverhampton, England. Ball-bearing hinge. No. 1,156,765; Oct. 12; Gaz. vol. 219; p. 527.
- Ely, Edgar C., Carbondale, Pa. Aquarium. No. 1,127,976; Feb. 9; Gaz. vol. 211; p. 501.
- Ely, Harry K., Baltimore, Md. Snap-switch. No. 1,162,735; Nov. 30; Gaz. vol. 220; p. 1692.
- Ely, Marshall S. (See White, Kirk H., assignor.)
- Ely, Walter C., Terre Haute, Ind. Producing blooms from scrap metal. No. 1,155,409; Oct. 5; Gaz. vol. 219; p. 29.
- Ely, Walter C., Terre Haute, Ind. Metal-working furnace. No. 1,155,410; Oct. 5; Gaz. vol. 219; p. 30.
- Elyria Iron & Steel Company, The. (See Bentz and McKee, assignors.)
- Elyria Iron & Steel Company, The. (See Hubler and Jones, assignor.)
- Elyria Iron & Steel Company, The. (See Lloyd, Marshall B., assignor.)
- Elyria Iron & Steel Company, The. (See McKee, Willis, assignor.)
- Elzas, Martin, New York, N. Y. Vending-machine. No. 1,127,417; Feb. 9; Gaz. vol. 211; p. 303.
- Elzas, Martin, assignor to E. B. Dykhuizen and R. F. Langer, Los Angeles, Cal. Butter-dish refrigerator. No. 1,150,533; Aug. 17; Gaz. vol. 217; p. 912.
- Elzey, Edgar P., Parkersburg, W. Va. Roofing-tile and the like. No. 1,124,001; Jan. 5; Gaz. vol. 210; p. 272.
- Elzy, Arthur D., Louisville, Ky. Culinary utensil. No. 1,134,376; Apr. 6; Gaz. vol. 213; p. 107.
- Emack, Albert, Calais, Me. Lamp-burner. No. 1,124,880; Jan. 12; Gaz. vol. 210; p. 634.
- Emanuel, Benjamin D., Hamilton, Ohio, assignor to The Pierce Speed Controller Company, Anderson, Ind. Combined speedometer and speed-controller. No. 1,127,607; Feb. 9; Gaz. vol. 211; p. 369.
- Emanuel, Gerry E., Edgerton, Ohio. Clarifying device. No. 1,158,034; Oct. 26; Gaz. vol. 219; p. 1065.
- Embler, Harry B., assignor of fifty-one one-hundredths to D. Kraus, New York, N. Y. Gas-engine. No. 1,135,884; Apr. 13; Gaz. vol. 213; p. 680.
- Embree, James M., Corona, Cal. Window-platform. No. 1,159,368; Nov. 9; Gaz. vol. 220; p. 365.
- Embree, Vern W., Gayville, S. D. Non-refillable bottle. No. 1,131,497; Mar. 9; Gaz. vol. 212; p. 609.
- Embrey, Laurence, county of Stafford, England. Apparatus for treating dough and like plastic material. No. 1,147,491; July 20; Gaz. vol. 216; p. 921.
- Embsen, Peter, assignor of one-half to J. A. Mansell, New York, N. Y. Printer's miter-gage. No. 1,157,372; Oct. 19; Gaz. vol. 219; p. 772.
- Embury Manufacturing Co. (See Hill, James H., assignor.)
- Emerrick, Harry C., Harrisburg, Pa. Rim-tool. No. 1,140,806; May 25; Gaz. vol. 214; p. 1190.
- Emerson, Alfred H., assignor to American Optical Company, Southbridge, Mass. Lens-examining instrument. No. 1,164,795; Dec. 21; Gaz. vol. 221; p. 806.
- Emerson, Alfred S., assignor to Emerson Contracting Company, New York, N. Y. Street-cleaning machine. No. 1,145,129; July 6; Gaz. vol. 216; p. 55.
- Emerson-Brantingham Company. (See Cast, George, assignor.)
- Emerson-Brantingham Company. (See Clay, Harry C., assignor.)
- Emerson-Brantingham Company. (See Davis, Calvin R., assignor.)
- Emerson-Brantingham Company. (See Erickson, Andrew, assignor.)
- Emerson-Brantingham Company. (See Greer, Edward R., assignor.)
- Emerson-Brantingham Company. (See Greer and Krieg, assignors.)
- Emerson-Brantingham Company. (See Hunter, Harry D., assignor.)
- Emerson-Brantingham Company. (See Kailor, John N., assignor.)
- Emerson-Brantingham Company. (See Seramor, Arthur P., assignor.)
- Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
- Emerson, Charles J., Omaha, Nebr. Dental matrix-retainer. No. 1,151,252; Aug. 24; Gaz. vol. 217; p. 1199.
- Emerson, Charles J., Omaha, Nebr. Dental matrix-retainer. No. 1,151,253; Aug. 24; Gaz. vol. 217; p. 1199.
- Emerson Contracting Company. (See Emerson, Alfred S., assignor.)
- Emerson, Genevieve, Springfield, Mass. Imitation stained glass. No. 1,146,855; July 20; Gaz. vol. 216; p. 697.
- Emerson, Joseph W., Salida, Colo. Treating ores. No. 1,126,965; Feb. 2; Gaz. vol. 211; p. 105.
- Emerson, Moses M., Ellensburg, Wash. Fire-hydrant. No. 1,126,431; Jan. 26; Gaz. vol. 210; p. 1256.
- Emerson, Victor H., New York, N. Y., assignor to American Graphophone Company, Bridgeport, Conn. Sound-record and the production thereof. No. 1,145,360; July 6; Gaz. vol. 216; p. 134.
- Emerson, William F. (See Foose, Alfred L., assignor.)
- Emerson, William H., et al. (See Bowers, Barber, and Grover, assignors.)
- Emerson, William H., et al. (See Reid, Robert and A. S., assignors.)
- Emery, Albert H., Stamford, Conn. Track-scales test-car. No. 1,124,217; Jan. 5; Gaz. vol. 210; p. 348.
- Emery, Albert H., Stamford, Conn. Transverse testing-machine. No. 1,147,153; July 20; Gaz. vol. 216; p. 802.
- Emery, Charles E., et al. (See Smith, Walton D., assignor.)
- Emery, Edward C., Los Angeles, Cal. Treating food remnants. No. 1,141,622; June 1; Gaz. vol. 215; p. 190.
- Emery, Elias J., Portsmouth, N. H. Arch-support. No. 1,125,989; Jan. 26; Gaz. vol. 210; p. 1096.
- Emery, Elias J., Portsmouth, N. H. Rubber heel. No. 1,165,235; Dec. 21; Gaz. vol. 221; p. 961.
- Emery, Elijah J. (See Kelly and Emery.)
- Emery, Fred R., Sacramento, Cal. Advertising device. No. 1,133,463; Mar. 30; Gaz. vol. 212; p. 1437.
- Emery, Plato G., Chicago, Ill. Closet. No. 1,148,668; Aug. 3; Gaz. vol. 217; p. 67.
- Emery, Ralph C., Newton, Mass. Indicator or timer. No. 1,131,498; Mar. 9; Gaz. vol. 212; p. 609.
- Emery, Wilber, Wilmington, Del., assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Bale-tie machine. No. 1,125,990; Jan. 26; Gaz. vol. 210; p. 1096.
- Emery, Wilber, Wilmington, Del., assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Bale-tie machine. No. 1,125,991; Jan. 26; Gaz. vol. 210; p. 1097.
- Emery, Wilber, Wilmington, Del., assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Bale-tie machine. No. 1,163,902; Dec. 14; Gaz. vol. 221; p. 454.
- Emick, Charles C. (See Gerlitzki and Emick.)
- Emkins, John H., Omaha, Nebr. Egg tester or container. No. 1,153,298; Sept. 14; Gaz. vol. 218; p. 367.
- Emmers, Edward, Royersford, Pa. Woman's undergarment. No. 1,139,652; May 18; Gaz. vol. 214; p. 753.
- Emmers, Edward, Royersford, Pa. Lady's undervest. No. 1,152,405; Sept. 7; Gaz. vol. 218; p. 8.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. System of ship propulsion. No. 1,137,308; Apr. 27; Gaz. vol. 213; p. 1266.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. System of ship propulsion. No. 1,137,593; Apr. 27; Gaz. vol. 213; p. 1365.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Slot-closing device for dynamo-electric machines. No. 1,154,496; Sept. 21; Gaz. vol. 218; p. 820.
- Emmett, Josiah, Chicago, Ill. Fire-extinguisher. No. 1,145,883; July 13; Gaz. vol. 216; p. 337.
- Emmons, Frederick, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Carton. No. 1,150,105; Aug. 17; Gaz. vol. 217; p. 744.
- Emory, Francis F., Fitchburg, Mass. Oil-filter. No. 1,148,834; Aug. 3; Gaz. vol. 217; p. 126.
- Empire Chemical Company. (See Clope, Irving S., assignor.)
- Empire Cream Separator Company. (See Macartney, Arthur C., assignor.)
- Empire Cream Separator Company. (See Pohl, John, assignor.)
- Empire Duplex Gin Company. (See Cheesman, James E., assignor.)
- Empire Duplex Gin Company. (See Meurling, Ivar, assignor.)
- Empire Machine Company. (See Chamberlin, Benjamin D., assignor.)
- Empire Machine Company. (See Dorsey, Vernon M., assignor.)
- Empire Machine Company. (See Hanford, Orin A., assignor.)
- Empire Machine Company. (See Woods, William J., assignor.)
- Empire Voting Machine Company. (See Dean, James H., assignor.)
- Empire Voting Machine Company. (See Lausterer, William J., assignor.)
- Empson, Frederick J., Sydney, New South Wales, Australia, assignor to The Aeolian Company. Talking-machine. No. 1,158,401; Oct. 26; Gaz. vol. 219; p. 1194.
- Emrich, Alfred, Pforzheim, Germany, assignor, by mesne assignments, to Shiman-Miller Manufacturing Company, Cigar-cutter. (Reissue.) No. 13,873; Feb. 2; Gaz. vol. 211; p. 250.
- Emrich, Firm of T. (See Emrich, Richard, assignor.)
- Emrich, Richard, assignor to Firm of T. Emrich, Pforzheim, Germany. Curb-chain bracelet. No. 1,144,408; June 29; Gaz. vol. 215; p. 1291.
- Emrick, Harry A., Casey, Ill. Telegraph instrument. No. 1,124,119; Jan. 5; Gaz. vol. 210; p. 313.
- Emtman, Theodore, Los Angeles, Cal. Conveying apparatus. No. 1,123,715; Jan. 5; Gaz. vol. 210; p. 176.
- En Holm, Oscar A., New York, N. Y. Gas-engine valve-gear. No. 1,149,565; Aug. 10; Gaz. vol. 217; p. 486.

Alphabetical list of patentees—Continued.

- Enamel Concrete Company. (See Stehm, Frank R., assignor.)
- Enameled Metals Company. (See McIlroy, Peter, assignor.)
- Enameled Steel Package Corporation. (See Wiedeman, Henry C., assignor.)
- Enameled Steel Package Corporation. (See Wiedeman and Schaum, assignors.)
- Enarson, Gustaf, Montclair, N. J. Bearing for swings. No. 1,147,081; July 20; Gaz. vol. 216; p. 777.
- Enders, William H., Sacramento, Cal. Starter for explosive-engines. No. 1,127,212; Feb. 2; Gaz. vol. 211; p. 193.
- Endicott, Warren E., Pawnee, Okla. Resilient wheel. No. 1,158,795; Nov. 2; Gaz. vol. 220; p. 136.
- Eneas, Aubrey G., Winthrop, assignor to Spray Engineering Company, Boston, Mass. Spray-nozzle. No. 1,163,591; Dec. 7; Gaz. vol. 221; p. 299.
- Enell, Otto E., Jersey City, N. J., assignor to Wayne Manufacturing Company. Clothes rack or drier. No. 1,150,933; Aug. 24; Gaz. vol. 217; p. 1090.
- Engel, Arthur F., New York, N. Y. Eyeletting-machine. No. 1,132,567; Mar. 23; Gaz. vol. 212; p. 1076.
- Engel, Frank, Niagara Falls, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Pasting-machine. No. 1,147,009; July 20; Gaz. vol. 216; p. 753.
- Engel, Edwin F., and L. Anderson, assignors of one-half to G. W. Stahl, Chicago, Ill. Caloric engine. No. 1,128,860; Feb. 16; Gaz. vol. 211; p. 856.
- Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoe-uppers. No. 1,139,653; May 18; Gaz. vol. 214; p. 753.
- Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoe-uppers. No. 1,142,155; June 8; Gaz. vol. 215; p. 412.
- Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stock-cutting. No. 1,142,156; June 8; Gaz. vol. 215; p. 413.
- Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for trimming the linings of shoes. No. 1,148,762; Aug. 3; Gaz. vol. 217; p. 101.
- Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Boot and shoe. No. 1,149,189; Aug. 10; Gaz. vol. 217; p. 351.
- Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Fastener for shoe-uppers. No. 1,150,854; Aug. 24; Gaz. vol. 217; p. 1064.
- Engel, Karl, Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,142,556; June 8; Gaz. vol. 215; p. 554.
- Engel, Karl, Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,142,557; June 8; Gaz. vol. 215; p. 554.
- Engel, William C., Adrian, Mich. Air-valve for automobile-engines. No. 1,146,931; July 20; Gaz. vol. 216; p. 725.
- Engelbert, Oscar M., New York, N. Y. Key-cutting machine. No. 1,135,676; Apr. 13; Gaz. vol. 213; p. 609.
- Engelbreit, John D., assignor to The Enterprise Optical Mfg. Company, Chicago, Ill. Automatic shutter for kinetoscopes. No. 1,138,364; May 4; Gaz. vol. 214; p. 227.
- Engelfried, William F., and G. A. Elfers, Milwaukee, Wis. Helmet. No. 1,131,350; Mar. 9; Gaz. vol. 212; p. 557.
- Engelhardt, Edward J., San Jose, Cal. Machine for syring fruit in cans. No. 1,135,102; Apr. 13; Gaz. vol. 213; p. 408.
- Engelhardt, Frederick, St. Johnsville, N. Y. Clutch. No. 1,125,278; Jan. 19; Gaz. vol. 210; p. 812.
- Engelhart, John G., Atlanta, Ga. Furnace. No. 1,135,169; Apr. 13; Gaz. vol. 213; p. 431.
- Engelmann, Max, Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Esters of carboxylarylphosphoric acids. No. 1,125,081; Jan. 19; Gaz. vol. 210; p. 740.
- Engelmann, Max, and B. Merkel, Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Pharmaceutical product. No. 1,126,432; Jan. 26; Gaz. vol. 210; p. 1256.
- Engelmann, William F., Chicago, Ill. Retouching-pencil. No. 1,151,451; Aug. 24; Gaz. vol. 217; p. 1263.
- Engels, Max, Westend, near Berlin, Germany. Muffle for the distillation of zinc. No. 1,136,519; Apr. 20; Gaz. vol. 213; p. 947.
- Engelwood, Patrick. (See Smedman, John, assignor.)
- Engen, Julius J. (See Newbauer, Faltine, assignor.)
- Engers, Martin, Toronto, Ontario, Canada. Lamp-dimmer. No. 1,146,143; July 13; Gaz. vol. 216; p. 429.
- Engesser, John A. (See Flickinger, John C., assignor.)
- Englhauser, Winford L., Winslow Park, Ohio. Atomizer. No. 1,151,254; Aug. 24; Gaz. vol. 217; p. 1200.
- Engine Holdings Company, The. (See Goby, Clifford S., assignor.)
- England, Alicia, Jasper county, Mo. Toy seesaw. No. 1,144,895; June 29; Gaz. vol. 215; p. 1458.
- England, Arthur E., Detroit, Mich. Thermostatic control for the valve of a carbureter. No. 1,149,743; Aug. 10; Gaz. vol. 217; p. 553.
- England, Clifford R., assignor of one-half to R. E. Stone, McKeesport, Pa. Means for controlling electric current. No. 1,154,849; Sept. 28; Gaz. vol. 218; p. 968.
- England, Egbert H. (See Frank, Edward H., assignor.)
- Engländer, Adolf, Eywanowitz, Austria-Hungary. Sealing-wax applicator. No. 1,150,584; Aug. 17; Gaz. vol. 217; p. 913.
- Englander, Max. (See Plunkett, Charles L., assignor.)
- Englander Spring Bed Company. (See Quincy, Henry J., assignor.)
- Englar, Clayton H., Baltimore, Md., assignor to Continental Can Company, Incorporated, Syracuse, N. Y. Device for feeding filled cans to closing-machines. No. 1,140,807; May 25; Gaz. vol. 214; p. 1190.
- Engle, Albert M., and S. B. Phillips, Gloucester, Ohio. Gripper. No. 1,129,185; Feb. 23; Gaz. vol. 211; p. 1007.
- Engle, James O., Ransom, Kans. Folding shipping-crate. No. 1,138,096; May 4; Gaz. vol. 214; p. 132.
- Engle, John F., Cleveland, Ohio. Time-recorder. No. 1,151,516; Aug. 24; Gaz. vol. 217; p. 1287.
- Engle, John F., Cleveland, Ohio. Selective system and apparatus. No. 1,156,352; Oct. 12; Gaz. vol. 219; p. 380.
- Engle, John F., Cleveland, assignor to W. L. Widlar, Lakewood, Ohio. Tubular tire-saving jack. No. 1,164,598; Dec. 14; Gaz. vol. 221; p. 695.
- Engle, Lillian K., Philadelphia, Pa. Fastening device. No. 1,142,510; June 8; Gaz. vol. 215; p. 539.
- Engle, William, Taylor, Wash. Air-hose coupling. No. 1,161,641; Nov. 23; Gaz. vol. 220; p. 1270.
- Engle, William G., Enderlin, assignor of one-tenth to J. M. Bates, Lisbon, N. D., and one-tenth to K. O. Sandum, Minneapolis, Minn. Standing-grain thresher. No. 1,134,443; Apr. 6; Gaz. vol. 213; p. 131.
- Engledove, Edwy D., and C. W. Kitterman, Washington, D. C. Safety device for elevators. No. 1,164,796; Dec. 21; Gaz. vol. 221; p. 806.
- Engler, Richard A., Lubuque, Iowa. System of electrical transmission. No. 1,134,983; Apr. 6; Gaz. vol. 213; p. 322.
- Englert, Joseph J., Chicago, Ill. Corrugated fastener. No. 1,129,968; Mar. 2; Gaz. vol. 212; p. 46.
- Englesson, John E., Karlskrona, Sweden, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Distributing-valve. No. 1,125,825; Jan. 19; Gaz. vol. 210; p. 1006.
- Englesson, John E., Karlskrona, Sweden, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Compensating device. No. 1,126,433; Jan. 26; Gaz. vol. 210; p. 1256.
- Englesson, John E., Karlskrona, Sweden, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Speed-limiting device. No. 1,127,977; Feb. 9; Gaz. vol. 211; p. 501.
- English, Analdo M. (See Lougee and English.)
- English, Ferdinand E., St. Louis, Mo. Hat. No. 1,129,857; Mar. 2; Gaz. vol. 212; p. 9.
- English, Ferdinand E., St. Louis, Mo. Bandeau for hats and the like. No. 1,157,093; Oct. 19; Gaz. vol. 219; p. 672.
- English, Frederick A. (See Shock and English.)
- English, John C. (See Johnson and English.)
- English, John C. (See Van Keuren, Henry P. T., assignor.)
- English, John C., Camden, N. J. Gas-engine. No. 1,159,481; Nov. 9; Gaz. vol. 220; p. 406.
- English, John C., Camden, N. J. Gas-engine. No. 1,159,482; Nov. 9; Gaz. vol. 220; p. 407.
- English & Mersick Co., The. (See Krah, Alexis, assignor.)
- English, William F. (See Ringland and English.)
- English, William J., and G. M. Wilcox, Chicago, Ill.; said Wilcox assignor to said English. Impact-indicator and game device. No. 1,145,833; July 6; Gaz. vol. 216; p. 300.
- Englund, Olof, Chicago, Ill. Carpet-cleaner. No. 1,155,556; Oct. 5; Gaz. vol. 219; p. 81.
- Engstrom, Isack G., Minneapolis, Minn. Column-clamp. No. 1,164,335; Dec. 14; Gaz. vol. 221; p. 605.
- Engstrom, Ivan, assignor, by mesne assignments, to C. M. and H. R. Hedman, Chicago, Ill. Check-protector. No. 1,156,000; Oct. 5; Gaz. vol. 219; p. 233.
- Ennison, Walter J., Brooklyn, N. Y. Game-board. No. 1,155,714; Oct. 5; Gaz. vol. 219; p. 136.
- Eno, Frank F., Boston, Mass., assignor to Eno Welt Shoe Company. Hand-method lasting-machine. No. 1,132,535; Mar. 16; Gaz. vol. 212; p. 1018.
- Eno Welt Shoe Company. (See Eno, Frank F., assignor.)
- Enoch, Harry, and G. M. Point, Huntington, W. Va. Emergency-valve attachment for air-brake systems. No. 1,164,709; Dec. 21; Gaz. vol. 221; p. 776.
- Enochian, Harry. (See Manoogian, Harry, assignor.)
- Enochs, Andrew C. (See Stivers and Enoch.)
- Enos, Alexander. (See Hovenden, Hiram A., assignor.)
- Enos, Charles E., Danville, Ill. Tool for removing bull's-eyes from lubricators. No. 1,150,352; Aug. 17; Gaz. vol. 217; p. 832.
- Enos, Eben F., Jr., Salem, Mass. Steel spring-bow. No. 1,161,642; Nov. 23; Gaz. vol. 220; p. 1270.
- Enos, Frank, Jr., assignor to The Norwich Automatic Feeder Company, Norwich, Conn. Chick-feeder. No. 1,138,365; May 4; Gaz. vol. 214; p. 227.

- Enos, Frank, Jr., assignor to The Norwich Automatic Feeder Company, Norwich, Conn. Poultry-feeder. No. 1,148,301; July 27; Gaz. vol. 216; p. 1233.
- Enos, Frank, Jr., assignor to The Norwich Automatic Feeder Company, Norwich, Conn. Antifreezing drinking-fountain for poultry. No. 1,148,302; July 27; Gaz. vol. 216; p. 1233.
- Enos, Frank, Jr., assignor to The Norwich Automatic Feeder Company, Norwich, Conn. Drinking-fountain for poultry. No. 1,158,035; Oct. 26; Gaz. vol. 219; p. 1065.
- Enrico, Giovanni, Turin, Italy, assignor, by mesne assignments to F. I. A. T., Poughkeepsie, N. Y. Internal combustion engine. No. 1,161,464; Nov. 23; Gaz. vol. 220; p. 1209.
- Ens, Johan D., Hague, Saskatchewan, Canada. Clutch. No. 1,140,367; May 25; Gaz. vol. 214; p. 1038.
- Ensign, Emory S., Brighton, Mass. Eyeletting-machine. No. 1,159,576; Nov. 9; Gaz. vol. 220; p. 439.
- Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Feed mechanism for sawing-machines. No. 1,160,057; Nov. 9; Gaz. vol. 220; p. 610.
- Ensminger, Kossuth J., Hamersville, Ohio. Flour-sifter. No. 1,125,500; Jan. 19; Gaz. vol. 210; p. 889.
- Ensor, Albert, Jersey City, N. J. Feeding device. No. 1,136,322; Apr. 20; Gaz. vol. 213; p. 875.
- Enstrom, August W., Rock Island, Ill. Hole-digging machine. No. 1,150,180; Aug. 17; Gaz. vol. 217; p. 771.
- Enterprise Manufacturing Company, The. (See Clarkson and Hummon, assignors.)
- Enterprise Manufacturing Company of Pennsylvania, The. (See Brown, John W., Jr., assignor.)
- Enterprise Manufacturing Company of Pennsylvania, The. (See Clark and Peoples, assignors.)
- Enterprise Manufacturing Company of Pennsylvania. (See Doty, Walter G., assignor.)
- Enterprise Optical Mfg. Company, The. (See Engelbreit, John D., assignor.)
- Enterprise Plumbing Supply Co. (See Tait, Richard, Jr., assignor.)
- Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
- Enterprise Railway Equipment Company. (See Zimmer, Albert E., assignor.)
- Enterprise Tool and Metal Works. (See Rosengren, George T., assignor.)
- Enterprize Automobile Company. (See Dyer, Leonard H., assignor.)
- Entwisle, Edward F., Duquesne, Pa. Internal-combustion engine. No. 1,126,738; Feb. 2; Gaz. vol. 211; p. 26.
- Entz, Justus B., Cleveland, Ohio. Dynamo-electric machine. No. 1,162,991; Dec. 7; Gaz. vol. 221; p. 89.
- Entz, Justus B., Hartford, Conn. Self-propelled vehicle. No. 1,164,588; Dec. 14; Gaz. vol. 221; p. 692.
- Entz, Justus B., Cleveland, Ohio, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Electro-responsive regulator. No. 1,125,279; Jan. 19; Gaz. vol. 210; p. 812.
- Entz, Justus B., assignor to The White Company, Cleveland, Ohio. Automobile-body. No. 1,140,139; May 18; Gaz. vol. 214; p. 926.
- Entz, Justus B., assignor to The White Company, Cleveland, Ohio. Carbureter. No. 1,151,578; Aug. 31; Gaz. vol. 217; p. 1355.
- Entz, Justus B., assignor to The White Company, Cleveland, Ohio. Carbureter-heater. No. 1,165,656; Dec. 28; Gaz. vol. 221; p. 1146.
- "Enumehav," Elektrische Niet- und Meissel-Hammer Verwertungsgesellschaft mit beschränkter Haftung. (See Jost, Hermann, assignor.)
- Envelope Manufacturing Company, The, *et al.* (See Cowgill, Orph W., assignor.)
- Enzler, Samuel, New York, N. Y. Knife. No. 1,147,853; July 27; Gaz. vol. 216; p. 1074.
- Epes, Henry S., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Submarine boat. No. 1,126,624; Jan. 26; Gaz. vol. 210; p. 1328.
- Epes, John S., *et al.* (See Sale, Robert A., assignor.)
- Ephraim, Ferdinand, San Francisco, Cal. Air-blast-beating apparatus. No. 1,154,106; Sept. 21; Gaz. vol. 218; p. 687.
- Epler, Samuel K., San Diego, Cal. Pump. No. 1,123,265; Jan. 5; Gaz. vol. 210; p. 21.
- Epley, James G., assignor of one-half to H. F. Wendall, Leipsic, Ohio. Shock-absorber for motor-cycle seats, *Ac.* No. 1,150,259; Aug. 17; Gaz. vol. 217; p. 800.
- Epling, Emory T., and C. Woolffen, Lewiston, Idaho. Fastening device. No. 1,129,969; Mar. 2; Gaz. vol. 212; p. 46.
- Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Separating prism system. No. 1,142,753; June 8; Gaz. vol. 215; p. 620.
- Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Adjusting device. No. 1,142,756; June 8; Gaz. vol. 215; p. 620.
- Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Stereoscopic telemeter. No. 1,148,222; July 27; Gaz. vol. 216; p. 1205.
- Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Horizontal telemeter. No. 1,150,585; Aug. 17; Gaz. vol. 217; p. 913.
- Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Indicating device for telemeters. No. 1,158,191; Oct. 26; Gaz. vol. 219; p. 1120.
- Epperson, Charles W., assignor to A. M. Cheshire, Seattle, Wash. Wrench. No. 1,136,323; Apr. 20; Gaz. vol. 213; p. 875.
- Epperson, Samuel S., *et al.* (See Lyle, Jesse, assignor.)
- Epple, Carl H., Oakland, Cal. Check-protector. No. 1,163,988; Dec. 14; Gaz. vol. 221; p. 484.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Thread-waxing device. No. 1,128,670; Feb. 16; Gaz. vol. 211; p. 790.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-winding machine. No. 1,141,449; June 1; Gaz. vol. 215; p. 129.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Back-rest and back-gage or welt-guide mechanism. No. 1,142,157; June 8; Gaz. vol. 215; p. 413.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-supporting jack. No. 1,145,981; July 13; Gaz. vol. 216; p. 371.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 1,165,768; Dec. 28; Gaz. vol. 221; p. 1186.
- Eppley, Charles S., York, Pa. Switch. No. 1,165,236; Dec. 21; Gaz. vol. 221; p. 961.
- Epright, Alonzo W., Altoona, Pa. Car-weighing apparatus. No. 1,142,407; June 8; Gaz. vol. 215; p. 503.
- Epstein, Eli, Boston, Mass. Cylinder-lock. No. 1,135,998; Apr. 20; Gaz. vol. 213; p. 762.
- Epstein, Irving, New York, N. Y. Fastener-setting machine. No. 1,152,719; Sept. 7; Gaz. vol. 218; p. 125.
- Equitable Asphalt Maintenance Company. (See Bledsoe, John H., assignor.)
- Equitable Meter Company. (See Weisgerber and Leinroth, assignors.)
- Erb, Arthur A. (See Gaines and Erb.)
- Erb, William B., Chicago, Ill. Pump. No. 1,136,946; Apr. 27; Gaz. vol. 213; p. 1133.
- Erbach, Harry, and J. J. Saxe, assignors to W. B. Coon Company, Rochester, N. Y. Making shoes. No. 1,160,867; Nov. 16; Gaz. vol. 220; p. 951.
- Erben, Hermann F. T., and W. J. Delles, Schenectady, N. Y., assignors to General Electric Company. Dynamo-electric machine. No. 1,156,675; Oct. 12; Gaz. vol. 219; p. 497.
- Erben, John, Cleveland, Ohio. Kitchen-range. No. 1,131,688; Mar. 16; Gaz. vol. 212; p. 709.
- Erber, Josef. (See Wagner and Erber.)
- Erber, Josef. (See Wagner, Erber, and Hoffa.)
- Ercanbrack, John E., Woodstock, Ill. Hot-air furnace. No. 1,130,718; Mar. 9; Gaz. vol. 212; p. 340.
- Erdmann, Oscar A., Detroit, Mich. Tail-light. No. 1,142,558; June 8; Gaz. vol. 215; p. 555.
- Erdős, Eugene, assignor to Azurit Company Limited For Chemical Industry Kolozsvár, Kolozsvár, Austria-Hungary. Extracting valuable copper constituents from cupriferos ores and their gangues. No. 1,162,044; Nov. 30; Gaz. vol. 220; p. 1456.
- Eriard, Otto E. (See Kallnbach, Carl A., assignor.)
- Erichsen, Adolph C. E., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Vapor-burner. No. 1,130,501; Mar. 2; Gaz. vol. 212; p. 232.
- Erichson, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. No. 1,127,213; Feb. 2; Gaz. vol. 211; p. 194.
- Erichson, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Switch-box. No. 1,136,324; Apr. 20; Gaz. vol. 213; p. 875.
- Erickson, Albin J., Chicago, Ill. Vehicle structure. No. 1,162,465; Nov. 30; Gaz. vol. 220; p. 1602.
- Erickson, Andrew, assignor to Emerson-Brantingham Company, Rockford, Ill. Flow structure. No. 1,129,859; Mar. 2; Gaz. vol. 212; p. 9.
- Erickson, Arthur F., assignor of one-fourth to J. V. Bock and one-fourth to G. T. Nonnenbacher, Seattle, Wash. Lock-out party-line telephone system. No. 1,147,223; July 20; Gaz. vol. 216; p. 827.
- Erickson, Benjamin, Mapleton, Mich. Automobile sleigh. No. 1,156,069; Oct. 12; Gaz. vol. 219; p. 285.
- Erickson, Charles H., and J. P. Nystrom, assignors to Cleveland Wire Spring Company, Cleveland, Ohio. Spring-grinding machine. No. 1,164,336; Dec. 14; Gaz. vol. 221; p. 606.
- Erickson, Charles J. (See Keith and Erickson.)
- Erickson, Charles J., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Pole-changer. No. 1,162,992; Dec. 7; Gaz. vol. 221; p. 90.
- Erickson, Daniel E., Berkeley, assignor to R. S. Moore, San Francisco, Cal. Retarder for boiler-tubes. No. 1,156,281; Oct. 12; Gaz. vol. 219; p. 355.
- Erickson, Daniel E., Berkeley, assignor to R. S. Moore, San Francisco, Cal. Spray-burner. No. 1,166,340; Dec. 28; Gaz. vol. 221; p. 1389.
- Erickson, Edward. (See Johnson and Erickson.)
- Erickson, Edward, Fresno, Cal. Keyless padlock. No. 1,150,353; Aug. 17; Gaz. vol. 217; p. 832.
- Erickson, Edward, Beverly, Mass. Fastening device. No. 1,153,209; Sept. 14; Gaz. vol. 218; p. 336.

Alphabetical list of patentees—Continued.

- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Company, Boston, Mass. Presser-foot mechanism for sewing-machines. No. 1,133,229; Mar. 23; Gaz. vol. 212; p. 1317.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Company, Boston, Mass. Lock-stitch sewing-machine. No. 1,138,858; May 11; Gaz. vol. 214; p. 439.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Shuttle for sewing-machines. No. 1,149,349; Aug. 10; Gaz. vol. 217; p. 411.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Shuttle-operating mechanism for sewing-machines. No. 1,149,350; Aug. 10; Gaz. vol. 217; p. 411.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Take-up mechanism for sewing-machines. No. 1,149,351; Aug. 10; Gaz. vol. 217; p. 412.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Mechanism for actuating the awl, needle, and needle-guide of lock-stitch sewing-machines. No. 1,149,352; Aug. 10; Gaz. vol. 217; p. 412.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Movable guard for sewing-machines. No. 1,149,353; Aug. 10; Gaz. vol. 217; p. 412.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Thread-measuring device for sewing-machines. No. 1,151,767; Aug. 31; Gaz. vol. 217; p. 1420.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Loop-spreader for sewing-machines. No. 1,154,564; Sept. 21; Gaz. vol. 218; p. 843.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Combined needle-carrier and loop-holder for sewing-machines. No. 1,154,565; Sept. 21; Gaz. vol. 218; p. 843.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Shuttle-operating mechanism for sewing-machines. No. 1,158,036; Oct. 26; Gaz. vol. 219; p. 1065.
- Erickson, Edward, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Loop-spreader and presser-foot mechanism for sewing-machines. No. 1,161,643; Nov. 23; Gaz. vol. 220; p. 1270.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoemaking-machine. No. 1,137,125; Apr. 27; Gaz. vol. 213; p. 1199.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoemaking-machine. No. 1,141,324; June 1; Gaz. vol. 215; p. 85.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Leather-skiving machine. No. 1,162,344; Nov. 30; Gaz. vol. 220; p. 1561.
- Erickson, Edward, West Lynn, assignor to Victor Shoe Machinery Company, Boston, Mass. Lock-stitch sewing-machine. No. 1,137,198; Apr. 27; Gaz. vol. 213; p. 1224.
- Erickson, Edward, West Lynn, assignor to Victor Shoe Machinery Company, Boston, Mass. Sewing-machine take-up. No. 1,140,584; May 25; Gaz. vol. 214; p. 1116.
- Erickson, Edward, West Lynn, assignor to Victor Shoe Machinery Company, Boston, Mass. Presser-foot mechanism for sewing-machines. No. 1,151,768; Aug. 31; Gaz. vol. 217; p. 1420.
- Erickson, Edward, West Lynn, assignor to Victor Shoe Machinery Company, Boston, Mass. Curved-needle-guide mechanism. No. 1,151,769; Aug. 31; Gaz. vol. 217; p. 1421.
- Erickson, Edward, West Lynn, assignor to Victor Shoe Machinery Company, Boston, Mass. Sewing-machine tension. No. 1,151,770; Aug. 31; Gaz. vol. 217; p. 1421.
- Erickson, Edward, assignor to The Boylston Manufacturing Company, Boston, Mass. Stitch-indenting machine. No. 1,165,002; Dec. 21; Gaz. vol. 221; p. 878.
- Erickson, Edward, and P. Sjostrom, Malden, Mass. Lifting-jack. No. 1,139,263; May 11; Gaz. vol. 214; p. 580.
- Erickson, Edward, and P. Sjostrom, Malden, assignors of one-third to W. L. Morrison, Melrose, Mass. Gripping-latch. No. 1,123,716; Jan. 5; Gaz. vol. 210; p. 177.
- Erickson, Frederic W., Albany, N. Y. Spring suspension for vehicles. No. 1,151,771; Aug. 31; Gaz. vol. 217; p. 1421.
- Erickson, H. Erick, Grandy, Minn. Jar-holder. No. 1,162,045; Nov. 30; Gaz. vol. 220; p. 1457.
- Erickson, Helmer, Donnybrook, N. D. Pliers. No. 1,151,772; Aug. 31; Gaz. vol. 217; p. 1422.
- Erickson, James, Philadelphia, Pa. Pile-driving mechanism. No. 1,131,048; Mar. 9; Gaz. vol. 212; p. 453.
- Erickson, John. (See Keith and Erickson.)
- Erickson, John. (See Martin and Erickson.)
- Erickson, John, *et al.* (See Obergfell, Herbert F., assignor.)
- Erickson, John, White Earth, N. D. Press-bit bridle. No. 1,133,115; Mar. 23; Gaz. vol. 212; p. 1279.
- Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Telephone-exchange apparatus and system. No. 1,123,506; Jan. 5; Gaz. vol. 210; p. 106.
- Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Telephone apparatus. No. 1,131,624; Mar. 9; Gaz. vol. 212; p. 652.
- Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Subscriber-controlled switching apparatus for telephone-exchange systems. No. 1,133,373; Mar. 30; Gaz. vol. 212; p. 1406.
- Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Pay-station-telephone system. No. 1,160,994; Nov. 16; Gaz. vol. 220; p. 996.
- Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange-system impulse transmitter. No. 1,133,796; Mar. 30; Gaz. vol. 212; p. 1558.
- Erickson, John E., assignor of two-thirds to J. E. McNamara and J. H. Frisby, Tonopah, Nev. Attachment for drill-chucks. No. 1,131,918; Mar. 16; Gaz. vol. 212; p. 792.
- Erickson, Melvin E., and A. W. Mogren, Grantsburg, Wis. Sack-holder. No. 1,145,297; July 6; Gaz. vol. 216; p. 112.
- Erickson, Ole C. (See Koyen and Erickson.)
- Erickson, Oscar G., Detroit, Mich. Device for supplying heated air to carburetors. No. 1,141,450; June 1; Gaz. vol. 215; p. 130.
- Erickson, Peter. (See Schylander and Erickson.)
- Erickson, Peter E., Port Chester, N. Y. Lubricator for leaf-springs. No. 1,156,070; Oct. 12; Gaz. vol. 219; p. 285.
- Erickson, Peter E., assignor to P. E. Erickson & Son, Inc., Port Chester, N. Y. Lubricator for leaf-springs. No. 1,127,214; Feb. 2; Gaz. vol. 211; p. 194.
- Erickson, William T., New York, N. Y. Vehicle-tire. No. 1,151,868; Aug. 31; Gaz. vol. 217; p. 1457.
- Ericson, Carl L., assignor to American Saw and Manufacturing Company, Springfield, Mass. Machine for hardening hacksaws. No. 1,150,511; Aug. 17; Gaz. vol. 217; p. 886.
- Ericson, Caroline, Great Falls, Mont. Churn. No. 1,129,798; Feb. 23; Gaz. vol. 211; p. 1218.
- Ericson, Charles J., Salt Lake City, Utah. Combined bed and baggage-carrier. No. 1,150,106; Aug. 17; Gaz. vol. 217; p. 744.
- Ericson, Lawrence, assignor to Kellogg Switchboard Supply Company, Chicago, Ill. Signaling device for party telephone-lines. No. 1,132,249; Mar. 16; Gaz. vol. 212; p. 915.
- Ericson, Thure E., assignor of one-half to T. Thorsen, Cheyenne, Wyo. Fly-swatter mechanism for screen-doors. No. 1,128,301; Feb. 16; Gaz. vol. 211; p. 665.
- Eriesson, Edward J., San Francisco, Cal. Air-signal valve. No. 1,133,116; Mar. 23; Gaz. vol. 212; p. 1279.
- Eriesson, Ernest A. (See Hurtig and Eriesson.)
- Eriesson, Henry, Chicago, Ill. Form for concrete girder construction. No. 1,152,307; Aug. 31; Gaz. vol. 217; p. 1606.
- Erie, James P., Oakland, Cal. Aeroplane. No. 1,153,612; Sept. 14; Gaz. vol. 218; p. 482.
- Erie Pump & Equipment Company. (See Andrews, Roger W., assignor.)
- Erlon, John V., Omaha, Nebr. Wrench. No. 1,161,382; Nov. 23; Gaz. vol. 220; p. 1181.
- Erlci, Joseph E., Milan, Wis. Tool for use in filing swaged saw-teeth. No. 1,141,451; June 1; Gaz. vol. 215; p. 130.
- Erlenbach, Arnold, Dessau, Germany. Preparation for dyeing hairs, furs, and the like. No. 1,144,325; June 22; Gaz. vol. 215; p. 1234.
- Erlenbach, Arnold, and K. Marx, Dessau, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Dyes for furs, hairs, and the like. No. 1,144,181; June 22; Gaz. vol. 215; p. 1184.
- Erlinger, George, assignor of one-half to A. O. Trostel and one-twentieth to A. A. Wedemeyer, Milwaukee, Wis. Explosive-turbine. No. 1,166,117; Dec. 28; Gaz. vol. 221; p. 1307.
- Erlwein, Georg, Berlin, and C. Knips, Charlottenburg, assignors to Siemens & Halske A. G., Berlin, Germany. Apparatus for purifying water by means of ozonized air. No. 1,138,202; May 4; Gaz. vol. 214; p. 168.
- Erman, August, Pocatello, Idaho. Clamp. No. 1,159,199; Nov. 2; Gaz. vol. 220; p. 275.
- Ermentrout, William H., and E. H. Zacharias, Reading, Pa. Machine for pressing fabrics. No. 1,147,383; July 20; Gaz. vol. 216; p. 883.
- Ernest, Albert C., Hubbard, assignor to S. C. Wallace, Coolidge, Tex. Protractor. No. 1,159,483; Nov. 9; Gaz. vol. 220; p. 407.
- Ernl, Walter, and A. H. Ward, Pewaukee, Wis. Driving-head for washing-machines. No. 1,150,855; Aug. 24; Gaz. vol. 217; p. 1064.
- Ernst, Edward G., Cleveland, Ohio. Addressing-machine. No. 1,149,354; Aug. 10; Gaz. vol. 217; p. 413.
- Ernst, Friedrich C., New York, N. Y. Umbrella-rib-tip retainer. No. 1,144,182; June 22; Gaz. vol. 215; p. 1185.

Alphabetical list of patentees—Continued.

- Ernst, George, Newark, N. J. Safety gage-glass. No. 1,164,484; Dec. 14; Gaz. vol. 221; p. 657.
- Ernst, Hugo, Camden, N. J. Collapsible life-boat. No. 1,446,059; July 13; Gaz. vol. 216; p. 399.
- Erick, Edward W. (See Cushing and Erick.)
- Errington, George A., Toronto, Ontario, Canada. Switch-point drain-box. No. 1,136,782; Apr. 20; Gaz. vol. 213; p. 1039.
- Errington, George A., Toronto, Ontario, Canada. Car-switch-operating mechanism. No. 1,138,203; May 4; Gaz. vol. 214; p. 168.
- Erskine, William G. (See Mendenhall and Erskine.)
- Ersev, Knud, Nijmegen, assignor to Ant. Jurgens Vereenigde Fabrieken, Oss, Netherlands. Manufacture of margarin. No. 1,147,626; July 20; Gaz. vol. 216; p. 964.
- Erstling, Max, Philadelphia, Pa. Knit undergarment. No. 1,134,598; Apr. 6; Gaz. vol. 213; p. 188.
- Ertter, David, Springfield, Ohio. Ground-breaking device. No. 1,147,492; July 20; Gaz. vol. 216; p. 921.
- Ertzman, Floyd E., Chicago, Ill. Dump-wagon. No. 1,149,815; Aug. 10; Gaz. vol. 217; p. 579.
- Ervin, Charles W., Los Angeles, Cal. Alarm device on windows. No. 1,147,795; July 27; Gaz. vol. 216; p. 1053.
- Erwin, Chauncey H., Alliance, Ohio. Composition for filling cavities in trees. No. 1,160,701; Nov. 16; Gaz. vol. 220; p. 895.
- Erwin, Herbert E., and F. A. Bowers, assignors to The New Britain Machine Company, New Britain, Conn. Dispensing apparatus. No. 1,127,215; Feb. 2; Gaz. vol. 211; p. 194.
- Erwin, James B. and O. R., Milwaukee, Wis. Apparatus for extinguishing fires. No. 1,128,768; Feb. 16; Gaz. vol. 211; p. 823.
- Erwin, James B. and O. R., Milwaukee, Wis. Automatically extinguishing fires. No. 1,130,719; Mar. 9; Gaz. vol. 212; p. 341.
- Erwin, Joseph R., Sabano, Tex. Peanut-harvester. No. 1,137,594; Apr. 27; Gaz. vol. 213; p. 1365.
- Erwin, Orlando R. (See Erwin, James B. and O. R.)
- Erwin, Raymond W., Fremont, assignor to National Carbon Company, Cleveland, Ohio. Dowel connection. No. 1,136,111; Apr. 20; Gaz. vol. 213; p. 799.
- Erwin, Walter E., J. N. Lloyd, M. D. Mann, Jr., and R. L. Winchell, Santa Barbara, Cal. Door-operating mechanism for cars and the like. No. 1,142,408; June 8; Gaz. vol. 215; p. 503.
- Eschen, Franklin W., New York, N. Y. Form for making curbs. No. 1,138,740; May 11; Gaz. vol. 214; p. 395.
- Escher, Gustav E., South Orange, N. J. Means for reinforcing and binding concrete. No. 1,144,536; June 29; Gaz. vol. 215; p. 1333.
- Escher, Wyss & Co. (See Ruegger, Eduard, assignor.)
- Escher, Wyss & Co. (See Zoelly, Heinrich, assignor.)
- Escherich, John, Hartford, Wis. Spring-controlled vehicle-wheel. No. 1,149,432; Aug. 10; Gaz. vol. 217; p. 440.
- Eschwei, Charles, Copiague, assignor to G. F. Eschwei, New York, N. Y. Fur-beating machine. (Reissue.) No. 13,944; July 13; Gaz. vol. 216; p. 651.
- Eschwei, George F. (See Eschwei, Charles, assignor.) (Reissue.)
- Esdohr, W. H. (See Alexander, Henry B., assignor.)
- Essen, Frederick W., Los Angeles, Cal. Neck-shield. No. 1,128,238; Feb. 9; Gaz. vol. 211; p. 591.
- Eskett, Henry, assignor of one-half to V. Hynds, Mounds, Ill. Machine for digging potatoes. No. 1,157,931; Oct. 26; Gaz. vol. 219; p. 1029.
- Eskew, Samuel W. (See Mayes and Eskew.)
- Esperson, Mollie. (See Shelp, William B., assignor.)
- Espinal, Antonio V., Banes, Cuba. Calipers. No. 1,131,351; Mar. 9; Gaz. vol. 212; p. 557.
- Espinal, Antonio V., Banes, Cuba. Apparatus for determining centers of bearings and the like. No. 1,146,416; July 13; Gaz. vol. 216; p. 524.
- Essanay Film Manufacturing Company. (See James and Peters, assignors.)
- Essaness Manufacturing Company. (See Eek, Albin C., assignor.)
- Essenkay Products Company, The. (See Mills, Clarence M., assignor.)
- Essex Rubber Company. (See Morgan, Henry S., assignor.)
- Essick, Walter S., Reading, Pa., assignor to The Standard Optical Company, Geneva, N. Y. Lens-cutting machine. No. 1,135,507; Apr. 13; Gaz. vol. 213; p. 547.
- Essick, William W., Reading, Pa. Mold for lens-mounting blocks. No. 1,143,895; June 22; Gaz. vol. 215; p. 1082.
- Essig, Andrew, Cleveland, Ohio. Heater for incubators. No. 1,137,472; Apr. 27; Gaz. vol. 213; p. 1324.
- Essey, Asbury, Eustis, Nebr. Antiskidding, non-slipping tire-protector. No. 1,127,978; Feb. 9; Gaz. vol. 211; p. 501.
- Estate of William Schweitzer. (See Labadie, Harry H., assignor.)
- Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
- Estee, Adelaide. (See Gordon, Philip, assignor.)
- Estel, Harry R., et al. (See Adams, Frank C., assignor.)
- Estell, Samuel F., Los Angeles, Cal. Reamer. No. 1,134,322; Apr. 6; Gaz. vol. 213; p. 88.
- Estelle, Axel, Hagen, Westphalia, Germany. Treating metallic ores. No. 1,162,150; Nov. 30; Gaz. vol. 220; p. 1494.
- Ester & Co. (See Strohmenger, Arthur P., assignor.)
- Esterbrook, Otto G., New York, N. Y. Knockdown crib. No. 1,142,948; June 15; Gaz. vol. 215; p. 729.
- Estes, Barton, Seattle, and E. B. Robinson, Houghton, Wash. Cattle-guard. No. 1,138,548; May 4; Gaz. vol. 214; p. 289.
- Estes, Jeff M. (See Walton and Estes.)
- Estes, Robert E. (See Inman and Estes.)
- Estes, William F., Ozark, Mo. Wrench. No. 1,153,050; Sept. 7; Gaz. vol. 218; p. 244.
- Estey Piano Company. (See Barnes, James W., assignor.)
- Estle, William S., New York, N. Y. Air-conveying means. No. 1,162,758; Dec. 7; Gaz. vol. 221; p. 9.
- "Esto" Elastischer Strassenbahn-Oberbau G. m. b. H. (See Schmidt, Hugo, assignor.)
- Etheridge, Herbert, Wimbledon Park, assignor to The Bar-Lock Typewriter Company Limited, London, England. Platen-carriage of type-writers. No. 1,127,216; Feb. 2; Gaz. vol. 211; p. 195.
- Etheridge, Herbert, Wimbledon Park, assignor to The Bar-Lock Typewriter Company Limited, London, England. Line-spacer for type-writers. No. 1,159,912; Nov. 9; Gaz. vol. 220; p. 562.
- Etheridge, Theodore S., Grand Rapids, Mich. Device for applying glue to book-covers. No. 1,140,450; May 25; Gaz. vol. 214; p. 1068.
- Ethridge, Martin V., Brooklyn, assignor to A. T. Riedinger, New York, N. Y. Fluid-operated motor. No. 1,163,330; Dec. 7; Gaz. vol. 221; p. 208.
- Etienne, Paul, St. Imier, Switzerland. Transmitter for systems of electrically recording signs. No. 1,142,684; June 8; Gaz. vol. 215; p. 596.
- Etiman, John M., Mapleton, N. D. Car-door. No. 1,125,826; Jan. 19; Gaz. vol. 210; p. 1006.
- Ette, Charles G., assignor to St. Louis Malleable Castings Company, St. Louis, Mo. Vehicle-jack. No. 1,158,192; Oct. 26; Gaz. vol. 219; p. 1121.
- Ette, Charles G., assignor to St. Louis Malleable Casting Company, St. Louis, Mo. Insulator-pin. No. 1,163,132; Dec. 7; Gaz. vol. 221; p. 138.
- Ettlinger, Samuel N., Dorchester, Mass. Garment. No. 1,159,369; Nov. 9; Gaz. vol. 220; p. 366.
- Ettlinger, Abraham, New York, N. Y. Record-disk. No. 1,150,020; Aug. 17; Gaz. vol. 217; p. 714.
- Ettlinger, Edward L. (See Ettlinger, Joseph and E. L., assignors.)
- Ettlinger, Frederick. (See Ettlinger, Joseph and E. L., assignors.)
- Ettlinger, Joseph, Cranston, and E. L. Ettlinger, Providence, R. I.; said E. L. Ettlinger assignor to F. Ettlinger. Manufacture of split rings. No. 1,158,376; Oct. 26; Gaz. vol. 219; p. 1185.
- Etwell, Frank A., Toronto, Ontario, Canada. Motor-cycle. No. 1,162,993; Dec. 7; Gaz. vol. 221; p. 90.
- Etzel, George F., Brooklyn, N. Y. Sparrow-trap. No. 1,145,982; July 13; Gaz. vol. 216; p. 372.
- Eubank, Judson C., Chicago, Ill. Letter-plate. No. 1,157,856; Oct. 26; Gaz. vol. 219; p. 1002.
- Eudy, Arch, Riverside, Cal. Combination-tool. No. 1,132,248; Mar. 16; Gaz. vol. 212; p. 914.
- Eugene Dietzgen Company. (See Bierbrauer and Sachse, assignors.)
- Eugene Dietzgen Company. (See Dieckmann, Carl F., assignor.)
- Eulenfeld, Ferdinand von, Pinsbury, London, England. Machine for cutting or slicing bread and spreading butter or the like thereon. No. 1,158,014; Oct. 26; Gaz. vol. 219; p. 1057.
- Euler-Chelpin, Hans K. A. S. von, assignor, by mesne assignments, to Aktiebolaget Astra, Apotekarnas Kemiska Fabriker, Stockholm, Sweden. Manufacture of carbohydrate phosphoric-acid esters. No. 1,129,321; Feb. 23; Gaz. vol. 211; p. 1054.
- Eureka Company, The. (See Moles, John, assignor.)
- Eureka Shock Absorber Company. (See Crawford, Cary W., assignor.)
- Eureka Tire Company. (See Dech, Henry, assignor.)
- Eureka Tire Company. (See Seward, Edward C., Jr., assignor.)
- Euson, George M., Chicago, Ill. Article-carrier. No. 1,140,585; May 25; Gaz. vol. 214; p. 1116.
- Eustice, Alfred L., assignor to Economy Fuse & Manufacturing Company, Chicago, Ill. Renewable cartridge-fuse. No. 1,129,459; Feb. 23; Gaz. vol. 211; p. 1103.
- Eustis, John P., Newton, and A. T. Brown, Arlington, assignors to J. P. Eustis Manufacturing Company, Boston, Mass. Governor mechanism for pneumatic musical apparatus. No. 1,165,081; Dec. 21; Gaz. vol. 221; p. 905.
- Eutzi, Enos. (See Warner, Daniel, assignor.)
- Euwer, James N., New York, N. Y. Spring-tire. No. 1,147,154; July 20; Gaz. vol. 216; p. 802.
- Eva, William. (See Ingle and Eva.)
- Evans, Adelbert D., Aurora, Ill. Ink-well attachment. No. 1,134,829; Apr. 6; Gaz. vol. 213; p. 270.
- Evans, Alva A., Rochester, Tex. Cotton-drying apparatus. No. 1,128,592; Feb. 16; Gaz. vol. 211; p. 763.
- Evans, Anna L., Prairie View, Tex. Mop. No. 1,161,644; Nov. 23; Gaz. vol. 220; p. 1271.

Alphabetical list of patentees—Continued.

- Evans, Arthur C. (See Cole and Evans.)
 Evans, Arthur J., Beach, N. D. Lock-socket for whips. No. 1,134,599; Apr. 6; Gaz. vol. 213; p. 188.
 Evans, Arthur S., Reading, Kans. Lifter. No. 1,139,854; May 18; Gaz. vol. 214; p. 824.
 Evans, Austin M., Potts Camp, Miss. Torpedo-guard. No. 1,139,113; May 11; Gaz. vol. 214; p. 529.
 Evans, C. P., administrator. (See Lobert, Ferdinand A.)
 Evans, Charles C., assignor of one-half to A. P. Jones, Gainesville, Ga. Loom attachment. No. 1,146,697; July 13; Gaz. vol. 216; p. 623.
 Evans, Charles E., Weed, Cal. Kiln-car. No. 1,128,119; Feb. 9; Gaz. vol. 211; p. 551.
 Evans, Charles E., Weed, Cal. Lumber stacker and unloader. No. 1,128,671; Feb. 16; Gaz. vol. 211; p. 791.
 Evans, Charles E., Weed, Cal. Method and apparatus for rafting logs. No. 1,132,767; Mar. 23; Gaz. vol. 212; p. 1151.
 Evans, Charles E., Weed, Cal. Dowel. (Reissue.) No. 1,391,5; May 11; Gaz. vol. 214; p. 653.
 Evans, Charles E., Weed, Cal. Kiln-car. No. 1,165,163; Dec. 21; Gaz. vol. 221; p. 936.
 Evans, Charles E., assignor to Lumberman's Specialties Company, Weed, Cal. Circular-saw guard. No. 1,163,517; Dec. 7; Gaz. vol. 221; p. 274.
 Evans, Charles S., Berkeley, Cal. Vise. No. 1,141,237; June 1; Gaz. vol. 215; p. 52.
 Evans, Charlie W. (See Phillips and Evans.)
 Evans, Cicero P. (See Lobert, Ferdinand A., assignor.)
 Evans, David D., Racine, Wis. Guard for presses. No. 1,129,858; Mar. 2; Gaz. vol. 212; p. 9.
 Evans, David J. (See Andresen, Herman P., assignor.)
 Evans, Edward V., assignor to South Metropolitan Gas Company, London, England. Recovering as an ammonium salt the nitrogen of the hydrocyanic acid in crude coal-gas. No. 1,148,368; July 27; Gaz. vol. 216; p. 1259.
 Evans, Eleanor C., Hayman, Colo. Cooking-steamer. No. 1,152,308; Aug. 31; Gaz. vol. 217; p. 1607.
 Evans, Ernest A., and A. U. Willing, Milwaukee, Wis., assignors to Ratchet Brake Company, New York, N. Y. Brake-handle. No. 1,162,994; Dec. 7; Gaz. vol. 221; p. 90.
 Evans, Ernest W., Robinson, Ill. Gas-burner. No. 1,134,114; Apr. 6; Gaz. vol. 213; p. 11.
 Evans, Evan, Berlin, Germany, assignor to General Electric Company. System of electrical distribution. No. 1,158,037; Oct. 26; Gaz. vol. 219; p. 1066.
 Evans, Evan, and H. Ziemendorf, Berlin, Germany, assignors to General Electric Company. Electric meter. No. 1,163,226; Dec. 7; Gaz. vol. 221; p. 172.
 Evans, Francis T. P., Auckland, New Zealand. Harrow. No. 1,136,661; Apr. 20; Gaz. vol. 213; p. 996.
 Evans, Frank J., Spokane, Wash. Rail-joint. No. 1,161,120; Nov. 23; Gaz. vol. 220; p. 1085.
 Evans, Fred, Summit, N. J., assignor to Patented Devices Company, New York, N. Y. Sealing device. No. 1,146,754; July 13; Gaz. vol. 216; p. 643.
 Evans, Frederic H., New York, N. Y. Support. No. 1,136,783; Apr. 20; Gaz. vol. 213; p. 1039.
 Evans, George H., Memphis, Tenn. Rail-joint chair. No. 1,125,501; Jan. 19; Gaz. vol. 210; p. 890.
 Evans, Griffith C., London, England, assignor to Submarine Signal Company, Waterville, Me. Tide-operated submarine signaling device. No. 1,150,816; Aug. 17; Gaz. vol. 217; p. 991.
 Evans, Harry H. (See Weisneck, John I., assignor.)
 Evans, Henry R., New York, N. Y., assignor to Granulator Soap Company. Soap-dispensing machine. No. 1,130,672; Mar. 2; Gaz. vol. 212; p. 290.
 Evans, Israel, Lenoir City, Tenn. Cable-clamp. No. 1,154,916; Sept. 28; Gaz. vol. 218; p. 992.
 Evans, James E., Lyons, Kans. Cultivator. No. 1,140,970; May 25; Gaz. vol. 214; p. 1251.
 Evans, James F., Martinsburg, W. Va. Wheel. No. 1,154,497; Sept. 21; Gaz. vol. 218; p. 820.
 Evans, James M., New York, N. Y. Rotary engine. No. 1,158,467; Nov. 2; Gaz. vol. 220; p. 19.
 Evans, John, Melbourne, Victoria, Australia. Converting fine coal into a marketable fuel. No. 1,140,735; May 25; Gaz. vol. 214; p. 1166.
 Evans, John S., assignor of one-half to A. M. Miller, Vancouver, British Columbia, Canada. Fishing-hook. No. 1,158,666; Nov. 2; Gaz. vol. 220; p. 91.
 Evans, Joseph E., Bedford, Ind. Drilling-machine. No. 1,143,178; June 15; Gaz. vol. 215; p. 810.
 Evans, Lacey H., Lansdowne borough, Pa. Vertical file. No. 1,137,389; Apr. 27; Gaz. vol. 213; p. 1296.
 Evans, Lewis J., Scranton, Pa. Elevating device. No. 1,150,752; Aug. 17; Gaz. vol. 217; p. 963.
 Evans, Lon. (See Morgan and Evans.)
 Evans, Merlin S. (See Leech and Evans.)
 Evans, Morgan, Llanelly, Wales. Automatic locking and unlocking of railway-carriage doors. No. 1,165,581; Dec. 28; Gaz. vol. 221; p. 1118.
 Evans, Oliver M., Brewster, Ohio. Cuspidor lifter and carrier. No. 1,147,316; July 20; Gaz. vol. 216; p. 857.
 Evans, Owen B., assignor to United Gas Improvement Company, Philadelphia, Pa. Manufacture of carburated water-gas. No. 1,125,676; Jan. 19; Gaz. vol. 210; p. 954.
 Evans, Owen B., Lansdowne, assignor to The United Gas Improvement Company, Philadelphia, Pa. Gas apparatus. No. 1,165,657; Dec. 28; Gaz. vol. 221; p. 1141.
 Evans, Richard J., Franklin, Pa. Hose. No. 1,158,995; Nov. 2; Gaz. vol. 220; p. 204.
 Evans' Sons, John. (See Evans, William, assignor.)
 Evans, Thomas C., Sapulpa, assignor of one-half to J. H. Swofford, Dustin, Okla. Safety-stirrup. No. 1,129,655; Feb. 23; Gaz. vol. 211; p. 1171.
 Evans, Thomas D. (See Courson, James L., assignor.)
 Evans, Wheelon C., Mount Herman, La. Locomotive. No. 1,136,947; Apr. 27; Gaz. vol. 213; p. 1134.
 Evans, William, Oak Lane, assignor to J. Evans' Sons, Philadelphia, Pa. Shock-absorber. No. 1,128,964; Feb. 16; Gaz. vol. 211; p. 895.
 Evans, William, Oak Lane, assignor to J. Evans' Sons, Philadelphia, Pa. Trimming-machine. No. 1,164,337; Dec. 14; Gaz. vol. 221; p. 606.
 Evans, William, Oak Lane, assignor to J. Evans' Sons, Philadelphia, Pa. Combined nibbing and slotting machine. No. 1,164,338; Dec. 14; Gaz. vol. 221; p. 606.
 Evans, William B., assignor of one-half to E. H. Gerhardt, Philadelphia, Pa. Means for saving fuel and promoting combustion in furnaces and the like. No. 1,129,656; Feb. 23; Gaz. vol. 211; p. 1171.
 Evans, William J., Pilot Mound, Iowa. Motor-vehicle driving mechanism. No. 1,156,766; Oct. 12; Gaz. vol. 219; p. 527.
 Evans, William M., Kearney, Nebr. Bumping-post. No. 1,132,315; Mar. 16; Gaz. vol. 212; p. 939.
 Evans, William P., assignor to D. L. Schultz, Manchester, England. Shaft-bearing. No. 1,132,002; Mar. 16; Gaz. vol. 212; p. 823.
 Evans, William S., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Power-transmission mechanism. No. 1,158,468; Nov. 2; Gaz. vol. 220; p. 20.
 Eveland Electric Riveter Company. (See Eveland, Samuel S., assignor.)
 Eveland, John L., Hornell, assignor of one-half to W. Gates, South Dansville, N. Y. Window shade and curtain support. No. 1,152,617; Sept. 7; Gaz. vol. 218; p. 87.
 Eveland, Samuel S., Philadelphia, Pa. Electric riveter. No. 1,164,634; Dec. 21; Gaz. vol. 221; p. 750.
 Eveland, Samuel S., Bryn Mawr, Pa., assignor to Eveland Electric Riveter Company. Carburizing iron or steel. No. 1,133,626; Mar. 30; Gaz. vol. 212; p. 1497.
 Evens and Howard Fire Brick Company. (See Rhoads, Ralph S., assignor.)
 Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Plate-clamp for printing-presses. No. 1,126,739; Feb. 2; Gaz. vol. 211; p. 26.
 Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Plate finishing and cooling machine. No. 1,126,740; Feb. 2; Gaz. vol. 211; p. 26.
 Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Plate finishing and cooling machine. No. 1,126,741; Feb. 2; Gaz. vol. 211; p. 27.
 Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Pawl-and-ratchet driving mechanism. No. 1,163,815; Dec. 14; Gaz. vol. 221; p. 425.
 Everett, Albert R. (See Cooper and Everett.)
 Everett, Ernest E., and D. F. Sheldon, San Buenaventura, Cal. Device used in the formation of jetties. No. 1,140,140; May 18; Gaz. vol. 214; p. 926.
 Everett, Henry A., Haddon Heights, N. J. Safety limit-switch. No. 1,138,366; May 4; Gaz. vol. 214; p. 228.
 Everett, Rufus B., Memphis, Tenn. Protective turret. No. 1,136,325; Apr. 20; Gaz. vol. 213; p. 876.
 Everett, Russell M. (See Marx, Fred, assignor.)
 Everhart, Perry W., assignor of one-half to W. L. Siders, Elwood, Ind. Coating-pot. No. 1,142,685; June 8; Gaz. vol. 215; p. 597.
 Everitt, George W., New York, N. Y. Temporary binder. No. 1,146,856; July 20; Gaz. vol. 216; p. 697.
 Everitt, James H., Canton, Tex. Fan-actuating mechanism. No. 1,134,830; Apr. 6; Gaz. vol. 213; p. 270.
 Everlasting Combined Casket & Vault Company, The. (See Freeman, Joseph W., assignor.)
 Everly, William D., Sanger, Tex. Engine-starter. No. 1,145,130; July 6; Gaz. vol. 216; p. 55.
 Evers, Kurt, Charlottenburg, Germany, assignor to General Electric Company. Internal-combustion engine. No. 1,157,932; Oct. 26; Gaz. vol. 219; p. 1029.
 Everson, Charles E. (See Herzog and Everson.)
 Everson, George, Detroit, Mich. Adding-machine. No. 1,126,742; Feb. 2; Gaz. vol. 211; p. 27.
 Everson, George R., Cincinnati, Ohio. Massage-machine. No. 1,140,891; May 25; Gaz. vol. 214; p. 1222.
 Eves, Joshua V., Belfast, Ireland. Machine for drawing flax and other long-staple fibers to form slivers or yarn. No. 1,132,316; Mar. 16; Gaz. vol. 212; p. 939.
 Eves, Joshua V., Belfast, Ireland. Apparatus for hackling and spreading flax and other long-staple fibers. No. 1,143,520; June 15; Gaz. vol. 215; p. 928.
 Evesque, Henri A. J., Valence, France. Air-compression pump. No. 1,146,487; July 13; Gaz. vol. 216; p. 552.
 Evesson, Martin V. B., North Bergen, N. J. Steering-gear for toy vehicles. No. 1,140,586; May 25; Gaz. vol. 214; p. 1116.
 Evinsrud Motor Company. (See Mueller, Herman C., assignor.)

- Evinrude Motor Company. (See Schurz, Henry M., assignor.)
- Evins, Dossa D., Waco, Tex. Making electrotype embossing-dies. No. 1,154,179; Sept. 21; Gaz. vol. 218; p. 711.
- Evitts, Charles E., Pottsville, Pa. Screw-propeller. No. 1,158,909; Nov. 2; Gaz. vol. 220; p. 175.
- Ewald, Leo, Minneapolis, Minn. Brush for linotype-pots. No. 1,133,716; Mar. 30; Gaz. vol. 212; p. 1530.
- Ewald, Martin R., Pentwater, Mich. Bed attachment. No. 1,143,618; June 22; Gaz. vol. 215; p. 988.
- Ewart, Robert B., Detroit, Mich. Rotary valve. No. 1,131,776; Mar. 16; Gaz. vol. 212; p. 741.
- Ewell, Claude D., and L. V. Calhoun, Cleora, Ill. Folding ironing-board. No. 1,158,910; Nov. 2; Gaz. vol. 220; p. 175.
- Ewell, John F., Chicago, Ill. Valve for tank-cars. No. 1,150,586; Aug. 17; Gaz. vol. 217; p. 913.
- Ewer, Frank A., Victor, N. Y. Spirit-level. No. 1,141,325; June 1; Gaz. vol. 215; p. 85.
- Ewer, Sina W., Bangor, Me. Cap. No. 1,147,224; July 20; Gaz. vol. 216; p. 828.
- Ewers, Alexander L., Durmid, Va., assignor to United Cigarette Machine Co. Ltd., London, England. Seam-sealing device for cigarette-machines. No. 1,130,720; Mar. 9; Gaz. vol. 212; p. 341.
- Ewert, John S. (See Arbeiter, Traugott, assignor.)
- Ewing, Alice H., Salt Lake City, Utah. Curtain-holder. No. 1,164,339; Dec. 14; Gaz. vol. 221; p. 607.
- Ewing, Blaine, New York, N. Y. Cuspidor. No. 1,151,169; Aug. 24; Gaz. vol. 217; p. 1170.
- Ewing, Harry L., Dallas, Tex. Spring-pull for locks. No. 1,143,896; June 22; Gaz. vol. 215; p. 1082.
- Ewing, Samuel R., Owensboro, Ky. Portable hay-rack. No. 1,141,112; June 1; Gaz. vol. 215; p. 8.
- Ewings, Clara E., Jim Falls, Wis. Washboiler. No. 1,149,566; Aug. 10; Gaz. vol. 217; p. 486.
- Exactograph Company, The. (See Doremus, Willard D., assignor.)
- Exbrayat, Alphonse, Paris, France. Manufacture of agglomerates. No. 1,154,980; Sept. 28; Gaz. vol. 218; p. 1013.
- Excel Shoe Form Company. (See Niles, Walter L. C., assignor.)
- Exello Manufacturing Company. (See Tolin, Albert E., assignor.)
- Excelsior Needle Company. (See Dayton, James M., assignor.)
- Excelsior Needle Company. (See Dayton, William H., assignor.)
- Excelsior Steel Furnace Company, The. (See Scherer, Albert G., assignor.)
- Excelsior Stove and Mfg. Co. (See Ohnemus, Anton, assignor.)
- Excess Indicator Company. (See Swoboda, Hans O., assignor.)
- Exley, William H., and W. T. Field, Lincoln, Nebr. Steering apparatus for automobiles and the like. No. 1,158,469; Nov. 2; Gaz. vol. 220; p. 20.
- Exline, William G., Cleveland, Ohio. Pocket check-binder. No. 1,154,566; Sept. 21; Gaz. vol. 218; p. 844.
- Exolon Company, The. (See Kalmus, Herbert T., assignor.)
- Exolon Company, The. (See Kalmus, Savell, and Blake, assignors.)
- Extensive Manufacturing Company, The. (See Fancher, Charles J., assignor.)
- Eyerman, Oscar A., and M. W. Himmler, Cumberland, Md. Car wheel and axle. No. 1,155,557; Oct. 5; Gaz. vol. 219; p. 81.
- Eyl, Emil C., Seattle, Wash. Forming ornamental blocks. No. 1,137,595; Apr. 27; Gaz. vol. 213; p. 1365.
- Eyman, John O., McKeesport, Pa. Horseshoe. No. 1,147,796; July 27; Gaz. vol. 216; p. 1053.
- Eynon, Thomas, Chicago, Ill., assignor to Ribbon Record Company. Phonographic record. No. 1,158,377; Oct. 26; Gaz. vol. 219; p. 1185.
- Eynon, Thomas M., Philadelphia, Pa. Automatic valve. No. 1,148,160; July 27; Gaz. vol. 216; p. 1184.
- Eynon, William H., Cleveland, Ohio. Making chain mesh. No. 1,143,262; June 15; Gaz. vol. 215; p. 840.
- Eyster, Elmer E. (See Eyster, William H., assignor.)
- Eyster, William H., assignor of one-half to E. E. Eyster, Indianapolis, Ind. Red-spring support. No. 1,159,913; Nov. 9; Gaz. vol. 220; p. 562.
- Eyton, Adam T., Nelson, British Columbia, Canada. Means for forming lead wire. No. 1,137,199; Apr. 27; Gaz. vol. 213; p. 1225.
- Ezykowich, John, Blissville, N. Y. Door-lock. No. 1,157,978; Oct. 26; Gaz. vol. 219; p. 1046.
- F. Rassmann Mfg. Co. (See Rassmann, Hugo C., assignor.)
- F. Wesel Manufacturing Company. (See Weston, Folke W., assignor.)
- F. A. Hardy & Company. (See Troppman, Charles J., assignor.)
- F. A. Neider Company, The. (See Laible, Frank, assignor.)
- F. A. Neider Company. (See Neider, Fred A., assignor.)
- F. A. Whitney Carriage Co. (See Ambler, George B., assignor.)
- F. A. Whitney Carriage Co. (See Day, Stillman, assignor.)
- F. B. Redington Company. (See Redington and Milmoie, assignors.)
- F. F. Slocumb & Co. (See Slocumb, Frank F., assignor.)
- F. H. Smith Manufacturing Company. (See Sasseman, David C., assignor.)
- F. & H. Wire Wheel Company, The. (See Frayer and Howard, assignors.)
- F. I. A. T. (See Enrico, Giovanni, assignor.)
- F. I. A. T. (See Fornaca, Guido, assignor.)
- F. L. Schmidt Company. (See Novick, Abraham, assignor.)
- F. L. Smidth & Co. (See Schröder, Aage, assignor.)
- F. L. Smith & Co. (See Riisager, Henrik E., assignor.)
- F. & M. Schaefer Brewing Co. (See Rickers, Frank W., assignor.)
- F. N. Burt Company. (See Anderson, James W., assignor.)
- F. N. Burt Company. (See Holly, Carlos, assignor.)
- F. N. Burt Company. (See Palmer, Lyndon C., assignor.)
- F. R. Patch Mfg. Co. (See Crane, Leslie, assignor.)
- F. W. Spacke Machine Company, The. (See Brownlee, Dalmar T., assignor.)
- F. W. Spacke Machine Company, The. (See Brownlee, Spacke, and Lowe, assignors.)
- F. W. Spacke Machine Company, The. (See Spacke, Brownlee and Spacke, assignors.)
- F. W. Wakefield Brass Company, The. (See Wakefield, Frederick W., assignor.)
- Fabec Manufacturing Company. (See Fegley, Victor, assignor.)
- Faber, Ernest L., Richmond, Va. Rotary valve for gas-engines. No. 1,128,965; Feb. 16; Gaz. vol. 211; p. 896.
- Faber, Ernst, Berlin, assignor to Rheinische Metallwaren- und Maschinenfabrik, Düsseldorf-derendorf, Germany. Shell-fuse. No. 1,154,579; Sept. 21; Gaz. vol. 218; p. 849.
- Faber, Frank M., Canton, Ohio. Method of and apparatus for making motion-picture films. No. 1,143,521; June 15; Gaz. vol. 215; p. 928.
- Faber, Frank M., Canton, Ohio. Method of and apparatus for making motion-picture films. No. 1,143,522; June 15; Gaz. vol. 215; p. 928.
- Faber, George A., Baltimore, Md. Tire-protector for motor-vehicles. No. 1,161,645; Nov. 23; Gaz. vol. 220; p. 1271.
- Faber, Henry B., New York, N. Y. Filter. No. 1,133,944; Mar. 30; Gaz. vol. 212; p. 1608.
- Faber, Henry B., Brooklyn, N. Y. Metallurgical apparatus. No. 1,138,284; May 4; Gaz. vol. 214; p. 197.
- Faber, Julius, Stuttgart, Germany. Spectacle-temple of spiral wire. No. 1,157,373; Oct. 19; Gaz. vol. 219; p. 772.
- Fabric Fire Hose Company. (See Cole, William T., assignor.)
- Fabric Fire Hose Company. (See Rhomoser, Matthew R., assignor.)
- Fabrik für Pianoeinbaupparate "Stems," Gesellschaft mit beschränkter Haftung. (See Hegeler, Hermann, assignor.)
- Fabrique Movado L. A. J. Ditesheim & frère. (See Ditesheim, Isidore, assignor.)
- Fabrizio, Michele. (See Buntten, William G., assignor.)
- Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Insulator. No. 1,160,702; Nov. 16; Gaz. vol. 220; p. 895.
- Fach, Walter, New York, N. Y. Sample-book. No. 1,145,131; July 6; Gaz. vol. 216; p. 55.
- Fachman, Oswald, Lindsey, Ohio. Knife-grinding machine. No. 1,155,893; Oct. 5; Gaz. vol. 219; p. 163.
- Fackenthall, Hart J., Trenton, N. J. Fishing-sinker. No. 1,127,747; Feb. 9; Gaz. vol. 211; p. 419.
- Faessler, John W., Moberly, Mo. Extracting mandrels from boiler-tube expanders. No. 1,133,014; Mar. 23; Gaz. vol. 212; p. 1243.
- Fafard, Joseph, Three Rivers, Quebec, Canada. Coin-sorter for fare-boxes. No. 1,128,672; Feb. 16; Gaz. vol. 211; p. 791.
- Fagan, Henry F., New York, N. Y. Device to prevent theft or unauthorized use of automobiles, motor-boats, and the like. No. 1,140,141; May 18; Gaz. vol. 214; p. 926.
- Fagan, John G., San Diego, Cal. Extinguishing fires. No. 1,148,763; Aug. 3; Gaz. vol. 217; p. 101.
- Fagan, John T., Cleveland, Ohio, assignor, by mesne assignments, to General Electric Company. Machine for manipulating glass rods and forming spiders therewith. No. 1,128,120; Feb. 9; Gaz. vol. 211; p. 551.
- Fagan, Oliver B., Georgetown, Ohio. Adjustable electric-lamp and mirror fixture. No. 1,157,519; Oct. 19; Gaz. vol. 219; p. 823.
- Fageol, Rollie B., Oakland, Cal. Vehicle running-gear. No. 1,160,499; Nov. 16; Gaz. vol. 220; p. 819.
- Fager, Alfred J., and J. W. Milbery, Dayton, Ohio. Automatically-controlled cabinet for protecting milk. No. 1,130,384; Mar. 2; Gaz. vol. 212; p. 189.
- Fagerlund, Erik A., and A. A. H. Börjeson, assignors of one-half to G. Svalling, Stockholm, Sweden. Cleaning-machine for dishes and similar articles. No. 1,139,406; May 11; Gaz. vol. 214; p. 629.
- Fagerlund, Herbert, Lewistown, Mont. Printing-frame. No. 1,165,237; Dec. 21; Gaz. vol. 221; p. 962.
- Fahnestock, David M., Pittsburgh, Pa. Removable molding-flask bar. No. 1,137,851; May 4; Gaz. vol. 214; p. 45.

Alphabetical list of patentees—Continued.

- Fahnestock Electric Company. (See Schade, John, Jr., assignor.)
- Fahrenbruch, George H., Omaha, Nebr. Grain-car door. No. 1,137,747; May 4; Gaz. vol. 214; p. 9.
- Faifer, Anthony, assignor, by mesne assignments, to H. E. Wright, Chicago, Ill. Loose-leaf binder and perforator. No. 1,142,032; June 8; Gaz. vol. 215; p. 370.
- Fail, Charles S., Charlton, Iowa. Attachment for vehicle-tops. No. 1,142,317; June 8; Gaz. vol. 215; p. 469.
- Faile, George W., Jr., Taxahaw, S. C. Match-box. No. 1,140,142; May 18; Gaz. vol. 214; p. 927.
- Failing, George, Philadelphia, Pa. Bottle-capping machine. No. 1,143,819; June 22; Gaz. vol. 215; p. 1055.
- Fallaci, Francesco. (See Faillaci, Salvatore and F.)
- Fallaci, Salvatore and F., Coney Island, N. Y. Raft. No. 1,162,590; Nov. 30; Gaz. vol. 220; p. 1643.
- Faint, Edward, Okanagan Landing, British Columbia, Canada. Cigar-lighter. No. 1,133,544; Mar. 30; Gaz. vol. 212; p. 1467.
- Fair and Carnival Trading Co. (See Haskell, Samuel, assignor.)
- Fair, George A., Los Angeles, Cal. Ventilating window or door. No. 1,136,784; Apr. 20; Gaz. vol. 213; p. 1039.
- Fair, George A., Los Angeles, Cal. Sash-controlled ventilating window or door. No. 1,136,785; Apr. 20; Gaz. vol. 213; p. 1040.
- Fair, George A., Los Angeles, Cal. Lock-actuating mechanism. No. 1,162,229; Nov. 30; Gaz. vol. 220; p. 1521.
- Fair, John B., Green township, St. Joseph county, Ind. Silo. No. 1,162,995; Dec. 7; Gaz. vol. 221; p. 91.
- Fair, Peter A., Helena, Mont. Humidifier. No. 1,135,445; Apr. 13; Gaz. vol. 213; p. 526.
- Fair, Peter A., Helena, Mont. Sounding baton. No. 1,150,856; Aug. 24; Gaz. vol. 217; p. 1065.
- Fair, Peter A., Helena, Mont. Umbrella-stand. No. 1,151,931; Aug. 31; Gaz. vol. 217; p. 1477.
- Fair, Thomas J. (See Peterson, Andrew T., assignor.)
- Fairbank, Frederick B., Detroit, Mich. Building-block. No. 1,153,900; Sept. 21; Gaz. vol. 218; p. 616.
- Fairbank, Silas F., Ogden, Utah. Flush-valve. No. 1,135,003; Apr. 13; Gaz. vol. 213; p. 373.
- Fairbanks, Charles E., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Locking device for handles. No. 1,165,658; Dec. 28; Gaz. vol. 221; p. 1147.
- Fairbanks, John W., Marion, Ohio. Excavating-machine. No. 1,143,619; June 22; Gaz. vol. 215; p. 988.
- Fairbanks, Morse & Company. (See Hobart and Jahnke, assignors.)
- Fairbanks, Morse & Company. (See Macneill, Martin B., assignor.)
- Fairbanks-Morse Electrical Manufacturing Company. (See More and Long, assignors.)
- Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Match-testing apparatus. No. 1,127,418; Feb. 9; Gaz. vol. 211; p. 303.
- Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Apparatus for modifying air. No. 1,127,419; Feb. 9; Gaz. vol. 211; p. 304.
- Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Apparatus for dehydrating air. No. 1,127,420; Feb. 9; Gaz. vol. 211; p. 304.
- Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Splint-drying apparatus for match-machines. No. 1,127,421; Feb. 9; Gaz. vol. 211; p. 304.
- Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Match. No. 1,150,857; Aug. 24; Gaz. vol. 217; p. 1065.
- Fairburn, William A., Short Hills, N. J., assignor to The Diamond Match Company, Chicago, Ill. Manufacturing matches. No. 1,150,858; Aug. 24; Gaz. vol. 217; p. 1066.
- Fairchild, Charles G., Brooklyn, N. Y. Door-check. No. 1,149,902; Aug. 10; Gaz. vol. 217; p. 610.
- Fairchild, Joseph A., assignor to V. V. Antley, Forest, Miss. Oven. No. 1,143,372; June 15; Gaz. vol. 215; p. 879.
- Fairchild, Walter H., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Board. No. 1,158,667; Nov. 2; Gaz. vol. 220; p. 91.
- Fairchild, Walter H., Anderson, Ind., and E. R. Hankins, Chicago, Ill. Corrugated-fiber shipping case or box. No. 1,165,860; Dec. 28; Gaz. vol. 221; p. 1216.
- Faires, Elisha J., assignor of one-half to F. D. Hagan, McKinney, Tex. Screen. No. 1,148,764; Aug. 3; Gaz. vol. 217; p. 102.
- Faires, Elisha J., assignor of one-half to J. F. Dulaney, McKinney, Tex. Weather-strip. No. 1,149,355; Aug. 10; Gaz. vol. 217; p. 413.
- Faires, Elisha J., and C. W. Stockburger, McKinney, Tex. Saw-gage. No. 1,131,352; Mar. 9; Gaz. vol. 212; p. 557.
- Fairhurst, William S., New York, N. Y. Valve. No. 1,153,051; Sept. 7; Gaz. vol. 218; p. 244.
- Fairmont Machine Company. (See Kasper, Walter F., assignor.)
- Fairmont Machine Company. (See Woolery, Horace E., assignor.)
- Fairsimo Glue Company. (See Bullock, Charles W., assignor.)
- Falst, William O., assignor to The Machinery & Specialty Company, Milwaukee, Wis. Safety-razor-blade sharpener. No. 1,132,079; Mar. 16; Gaz. vol. 212; p. 851.
- Faithfull, Clarence M., Liberty, Mo. Interest-bearing instrument of obligation. No. 1,141,452; June 1; Gaz. vol. 215; p. 131.
- Falbe, John. (See Baer, Abraham L., assignor.)
- Falch, Jonas C. (See Thoresen and Falch.)
- Falch, Otto E., Jr., Mill Valley, Cal. Electric-railway system. No. 1,127,217; Feb. 2; Gaz. vol. 211; p. 195.
- Falcone, D'Anico. (See Mala, Theodoro, assignor.)
- Falconer, Albert S., assignor of one-half to F. L. Broszmer, Los Angeles, Cal. Disappearing window. No. 1,125,992; Jan. 26; Gaz. vol. 210; p. 1097.
- Fales, Almon L. (See Gault and Fales.)
- Fales, Edward D., La Grange, assignor to Automatic Electric Company, Chicago, Ill. Telephone trunking system. No. 1,143,820; June 22; Gaz. vol. 215; p. 1056.
- Falk, Benjamin J., New York, N. Y. Holder for viewing transparencies. No. 1,152,156; Aug. 31; Gaz. vol. 217; p. 1556.
- Falk, Carl J., Manistee, Mich. Red, white, and blue game. No. 1,160,586; Nov. 16; Gaz. vol. 220; p. 851.
- Falk Company, The. (See Day, Percy C., assignor.)
- Falk, George, and E. L. Ginskey, assignors of one-third to J. Blasjeske, La Crosse, Wis. Hose connection for street-sprinkling carts. No. 1,165,582; Dec. 28; Gaz. vol. 221; p. 1118.
- Falk, Herman W., and W. K. Andrew, Milwaukee, Wis., assignors to M. Rumely Company, Laporte, Ind. Liquid-control system. No. 1,137,390; Apr. 27; Gaz. vol. 213; p. 1296.
- Falk, Herman W., and W. K. Andrew, Milwaukee, Wis., assignors to M. Rumely Company, Laporte, Ind. Carburetor water-supply. No. 1,142,877; June 15; Gaz. vol. 215; p. 703.
- Falk, Herman W., and W. K. Andrew, Milwaukee, Wis., assignors to M. Rumely Company, Laporte, Ind. Carburetor device. No. 1,146,316; July 13; Gaz. vol. 216; p. 489.
- Falkenau, Arthur, assignor to Gillis & Geoghegan, New York, N. Y. Ratchet mechanism. No. 1,150,587; Aug. 17; Gaz. vol. 217; p. 913.
- Falkenberg, Edward F., *et al.* (See Powell, Charles J., assignor.)
- Fallek, Nathan, assignor to The Cook Railway Signal Company, Denver, Colo. Rectifier compound. No. 1,155,640; Oct. 5; Gaz. vol. 219; p. 113.
- Fallert, Louis. (See Boyd and Fallert.)
- Fallon, John H., Philadelphia, Pa. Safety device for bridging freight-cars. No. 1,160,587; Nov. 16; Gaz. vol. 220; p. 851.
- Fallon, William H. (See Clabby and Fallon.)
- Fallows, Edward H. (See Jones, Harry, assignor.)
- Falls, Charles H., assignor to A. L. Runyan, Waterloo, Iowa. Bridle-bit. No. 1,140,971; May 25; Gaz. vol. 214; p. 1252.
- Falls, Jesse G., Memphis, Tenn. Treating cotton-seed meal, cotton-seed meats, and cotton-seed flour. No. 1,142,243; June 8; Gaz. vol. 215; p. 443.
- Faloon, Dalton B., Dubois, Pa. Type-writer. No. 1,141,533; June 1; Gaz. vol. 215; p. 159.
- Faltermayer, Harry, and C. B. Thwing, assignors to Thwing Instrument Company, Philadelphia, Pa. Graphic recorder. No. 1,137,506; Apr. 27; Gaz. vol. 213; p. 1365.
- Faltin, William, Florence, assignor to L. C. Durham, Red Rock, Ariz. Shaft-coupling. No. 1,166,401; Dec. 28; Gaz. vol. 221; p. 1412.
- Faltus, Joseph, assignor of one-half to C. C. Forster, Fall River, Mass. Shuttle-eye. No. 1,159,577; Nov. 9; Gaz. vol. 220; p. 440.
- Falvey, Humphrey, New York, N. Y. Glass-cutting machine. No. 1,140,143; May 18; Gaz. vol. 214; p. 927.
- Fancher, Charles J., Thompsonville, Conn., assignor to The Extensive Manufacturing Company, New York, N. Y. Counter mechanism. No. 1,141,623; June 1; Gaz. vol. 215; p. 191.
- Fancher, Samuel W. (See King and Fancher.)
- Fangel, Elma F., executrix. (See Fangel, John P.)
- Fangel, John P., deceased, Boston; E. F. Fangel, executrix, assignor to A. Johnson, East Boston, Mass. Sectional partition. No. 1,154,622; Sept. 28; Gaz. vol. 218; p. 893.
- Fanning, Charles E., Davenport, Iowa, assignor one-third to H. C. First, A. Olsen, G. Shallberg and W. A. Meese, Moline, Ill. Vending-machine. No. 1,149,997; Aug. 10; Gaz. vol. 217; p. 645.
- Fanning, Fred E., Woodland, Ill. Storage-battery-charging system. No. 1,144,354; June 29; Gaz. vol. 215; p. 1273.
- Fanshawe, Henry E., New York, N. Y., assignor, by mesne assignments, to Wire Products Company, Garment-hook. No. 1,158,193; Oct. 26; Gaz. vol. 219; p. 1121.
- Faragher, John, Madison, Wis. Scaffold. No. 1,166,118; Dec. 28; Gaz. vol. 221; p. 1307.
- Faragó, Andreas, Budapest, Austria-Hungary. Preventing decomposition of hydrogen-peroxid solutions. No. 1,134,323; Apr. 6; Gaz. vol. 213; p. 88.

Alphabetical list of patentees—Continued.

- Farago, John, Stamford, Conn. Bed-spring. No. 1,144,183; June 22; Gaz. vol. 215; p. 1185.
- Faragó, Jozseph, Clarence, Pa. Rail-joint. No. 1,140,892; May 25; Gaz. vol. 214; p. 1223.
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Carstens, Johann, assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Decker, Herman, assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Gottlob, Kurt, assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Grüller, Buff, and Flachslaender, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Merling, Chrzescinski, and Köhler, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Ach and Rothmann, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Ach, Rothmann, and Dieterich, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Ach, Rothmann, and Hatzig, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Duden and Peters, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Ehrlich and Karrer, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Elchweide, Heinrich, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Hahnenkamm, Wilhelm, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Kautzsch, Karl, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Kränzelin, Georg, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Kränzelin, Hagenbach, and Gloy, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Moest and Eckhardt, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schirmacher and Voss, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidlin, Robert, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, Abrecht, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Kränzelin, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Steindorff, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, Kränzelin, and Runne, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, Thiess, and Bryk, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Staehlin, Otto, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Steindorff and Welde, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Stock and Heim, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Thiess, Karl, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Tiedtke, Richard, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Tropp, Willy, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Wagner and Erber, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Wagner, Erber, and Hoffa, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Wulff, Otto, assignor.)
- Farigoule, Jean, Paris, France. Loom for the mechanical manufacture of lace. No. 1,135,782; Apr. 13; Gaz. vol. 213; p. 643.
- Farington, Thayer B., Columbus, Ohio. Draft-regulating device in locomotive front ends. No. 1,142,686; June 8; Gaz. vol. 215; p. 597.
- Farkas, Joseph D., Brooklyn, N. Y. Foot-ball cover. No. 1,162,591; Nov. 30; Gaz. vol. 220; p. 1644.
- Farkas, Joseph D., assignor to J. J. Beyerle Mfg. Co., Brooklyn, N. Y. Diaper. No. 1,133,945; Mar. 30; Gaz. vol. 212; p. 1608.
- Farkell, George C., Elyria, Ohio. Nut-tightening device. No. 1,131,225; Mar. 9; Gaz. vol. 212; p. 514.
- Farkell, George C., Elyria, Ohio. Manipulator. No. 1,152,014; Aug. 31; Gaz. vol. 217; p. 1505.
- Farley, Alfred C., Martinsburg, W. Va. Automatic locomotive-arrester. No. 1,151,170; Aug. 24; Gaz. vol. 217; p. 1170.
- Farley, Ernest P., and J. L. Rifer, Portland, Ore. Sliding-door fastener. No. 1,145,409; July 6; Gaz. vol. 216; p. 152.
- Farley, John W., Cleveland, Ohio. Chute and shaft in buildings. No. 1,152,309; Aug. 31; Gaz. vol. 217; p. 1607.
- Farley, Thomas J., et al. (See Hale, James H., assignor.)
- Farlinger, George E., assignor to Briscoe Manufacturing Company, Detroit, Mich. Radiator. No. 1,138,367; May 4; Gaz. vol. 214; p. 228.
- Farlow, Isaac F., Rockaway, N. J. Garment-sleeve. No. 1,147,155; July 20; Gaz. vol. 216; p. 803.
- Farnar, Frank C., Waterloo, near Liverpool, England. Slide-rule. No. 1,123,507; Jan. 5; Gaz. vol. 210; p. 106.
- Farmer, Charles, Nottingham, England. Take-up mechanism for embroidery-machines. No. 1,139,958; May 18; Gaz. vol. 214; p. 860.
- Farmer, Charles A., Warrior, Ala. File-case. No. 1,148,369; July 27; Gaz. vol. 216; p. 1259.
- Farmer, Charles H., Ashland, Ore. Amalgamator. No. 1,132,317; Mar. 16; Gaz. vol. 212; p. 939.
- Farmer, Clarence R. (See Wyatt and Farmer.)
- Farmer, Clyde C., Chicago, Ill., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Triple-valve-testing apparatus. No. 1,143,620; June 22; Gaz. vol. 215; p. 988.
- Farmer, Edward D., trustee. (See Baltzley, Edwin, assignor.)
- Farmer, Ernest H., assignor of nine-tenths to Whitehead, Morris & Company, Limited, London, England. Printing process applicable generally but more especially to bank-notes, bonds, and other securities. No. 1,147,317; July 20; Gaz. vol. 216; p. 858.
- Farmer, Frank H., assignor to The White Company, Cleveland, Ohio. Making hardened-steel gears. No. 1,152,157; Aug. 31; Gaz. vol. 217; p. 1556.
- Farmer, George A. (See Gibson, Farmer, and Read.)
- Farmer, James, McKees Rocks, assignor of two-thirds to L. Trower, Wilkensburg, and one-third to J. D. Clark, Pittsburgh, Pa. Safety device for derricks. No. 1,165,583; Dec. 28; Gaz. vol. 221; p. 1119.
- Farmer, John, Argenta, and M. E. Sherland, McGehee, Ark. Steam-boiler construction. No. 1,134,115; Apr. 6; Gaz. vol. 213; p. 11.
- Farmer, Luke W., Somerville, Mass. Heating apparatus for wax-coated paper cups. No. 1,129,385; Feb. 23; Gaz. vol. 211; p. 1077.
- Farmer, Matthew S., Washington, D. C., assignor to International Harrow Cultivator Company, Birmingham, Ala. Flexible disk harrow. No. 1,136,908; Apr. 20; Gaz. vol. 213; p. 1084.
- Farmer, William C. (See Bowman, Levi M., assignor.)
- Farmer, William H., assignor of one-third to H. I. Phinney, Boothbay Harbor, Me. Electric switch. No. 1,156,282; Oct. 12; Gaz. vol. 219; p. 355.
- Farnam, Frank D., Chicago, Ill. Cleaning device for utilizing volatile liquids. No. 1,137,959; May 4; Gaz. vol. 214; p. 83.
- Farnar, John Orillia, Wash. Portable force-pump. No. 1,134,042; Mar. 30; Gaz. vol. 212; p. 1640.
- Farnham, Blon B., Buffalo, N. Y. Compensating driving mechanism. No. 1,134,187; Apr. 6; Gaz. vol. 213; p. 38.
- Farnham, Charles A., Ross, Iowa. Disk harrow. No. 1,135,508; Apr. 13; Gaz. vol. 213; p. 548.
- Farnham, Jeremiah N., Rockland, Me. Roofing implement. No. 1,123,266; Jan. 5; Gaz. vol. 210; p. 21.
- Farnham, Stephen H., A. W. Smith, New York, N. Y., and J. Phelps, Belleville, N. J., assignors to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,131,828; Mar. 16; Gaz. vol. 212; p. 761.
- Farnsworth, George W., assignor to F. W. Thurston, San Francisco, Cal. Explosive-engine. No. 1,133,845; Mar. 30; Gaz. vol. 212; p. 1576.
- Farnsworth, Ralph. (See De Vaux, Frank, assignor.)
- Farnsworth, Sidney W. (See Eaton and Farnsworth.)
- Farnsworth, Sidney W. (See Randall, Farnsworth, and Fortesque.)
- Farnsworth, Sidney W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Terminal bushing. No. 1,129,460; Feb. 23; Gaz. vol. 211; p. 1104.
- Farnsworth, Sidney W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gage for indicating vacuum. No. 1,163,989; Dec. 14; Gaz. vol. 221; p. 484.
- Farnsworth, Sidney W., and O. P. Schuster, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Starting-electrode for vapor electric devices. No. 1,159,915; Nov. 9; Gaz. vol. 220; p. 563.
- Farnsworth, Sidney W., Pittsburgh, D. E. Carpenter, Wilkensburg, and L. E. Frost, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Starting-electrode for vapor electric apparatus. No. 1,159,914; Nov. 9; Gaz. vol. 220; p. 563.
- Farnsworth, Sidney W., Pittsburgh, D. E. Carpenter, Wilkensburg, L. E. Frost, Pittsburgh, D. H. Rose and E. F. Sipher, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrode-shield for vapor electric apparatus. No. 1,159,916; Nov. 9; Gaz. vol. 220; p. 564.
- Farnsworth, Willis S., assignor to Coin Controlled Lock Co., San Francisco, Cal. Parcel-locker. No. 1,133,627; Mar. 30; Gaz. vol. 212; p. 1497.
- Farnsworth, Willis S., assignor to Coin Controlled Lock Company, San Francisco, Cal. Lock-guard. No. 1,160,978; Nov. 16; Gaz. vol. 220; p. 990.
- Farnum, William C., assignor of one-half to W. M. Whitney, Winchendon, Mass. Motor gear-drive for planers. No. 1,140,334; May 18; Gaz. vol. 214; p. 992.
- Farnum, William C., Winchendon, assignor of one-half to H. E. and C. F. Cowdrey, Fitchburg, Mass. Feeder for boring and turning machines. No. 1,164,272; Dec. 14; Gaz. vol. 221; p. 581.

Alphabetical list of patentees—Continued.

- Farquhar, Edmund H., Schenectady, N. Y., assignor to General Electric Company. Manufacturing elastic helical gears. No. 1,166,402; Dec. 28; Gaz. vol. 221; p. 1412.
- Farquhar, Louis W., St. Louis, Mo. Safety-guard for razors. No. 1,138,649; May 11; Gaz. vol. 214; p. 362.
- Farquhar, Roger B., Jr., Philadelphia, Pa. Locomotive-frame. No. 1,159,200; Nov. 2; Gaz. vol. 220; p. 276.
- Farquharson, William, Greenock, Scotland. Drill-chuck. No. 1,154,299; Sept. 21; Gaz. vol. 218; p. 752.
- Farr, Adrian L., Ogden, Utah. Gage-cock. No. 1,129,970; Mar. 2; Gaz. vol. 212; p. 46.
- Farr, Edward, Lancaster, Ohio. Tire-armor. No. 1,163,518; Dec. 7; Gaz. vol. 221; p. 274.
- Farr, Frank E., Bronson, Mich. Change-maker. No. 1,149,744; Aug. 10; Gaz. vol. 217; p. 553.
- Farr, Herman G. (See Landau and Farr.)
- Farr, Ira E., Sandusky, Ohio, assignor of one-half to J. V. Baron, Watertown, N. Y. Self-lubricating shaft-bearing. No. 1,156,071; Oct. 12; Gaz. vol. 219; p. 286.
- Farr, John C., Jr. (See Hurley, Richard, assignor.)
- Farra, Edgar, Turlock, Cal. System of utilizing the power of tide and wave. No. 1,147,082; July 20; Gaz. vol. 216; p. 777.
- Farrall, George A., and C. Maul, assignors to The Johnston Harvester Company, Batavia, N. Y. Corn-harvester. No. 1,157,857; Oct. 26; Gaz. vol. 219; p. 1002.
- Farrall, George A., and C. Maul, assignors to The Johnston Harvester Company, Batavia, N. Y. Corn-harvester. No. 1,158,470; Nov. 2; Gaz. vol. 220; p. 20.
- Farrall, George A., and C. Maul, assignors to The Johnston Harvester Company, Batavia, N. Y. Corn-harvester. No. 1,159,370; Nov. 9; Gaz. vol. 220; p. 366.
- Farrand, Albert C., Atlantic City, N. J., assignor to H. W. Johns-Manville Company. Safety device for electric signaling apparatus. No. 1,146,616; July 13; Gaz. vol. 216; p. 595.
- Farrand Company, The. (See Leadbeter, Richard A., assignor.)
- Farrar, Horace J., Seattle, Wash., assignor to Universal High Power Telephone Company, King county, Wash. Sound and light amplifier. No. 1,156,865; Oct. 12; Gaz. vol. 219; p. 563.
- Farrar, John J., Rapid City, S. D. Container. No. 1,156,767; Oct. 12; Gaz. vol. 219; p. 527.
- Farrar, Walter C. R., Huntington, Ind. Device for sharpening shears. No. 1,148,303; July 27; Gaz. vol. 216; p. 1234.
- Farrel Foundry & Machine Co. (See Tippet, Philip V., assignor.)
- Farrel Foundry & Machine Company. (See Bowen, David R., assignor.)
- Farrell, Archie W., Aurora, Ill. Carbureter. No. 1,123,508; Jan. 5; Gaz. vol. 210; p. 106.
- Farrell, George A., Altoona, Pa. Metallic tie. No. 1,139,855; May 18; Gaz. vol. 214; p. 824.
- Farrell, George R., Wyandotte, Mich. Lantern. No. 1,164,797; Dec. 21; Gaz. vol. 221; p. 807.
- Farrell, John, Newton, N. J. Brake mechanism. No. 1,145,061; July 6; Gaz. vol. 216; p. 32.
- Farrell, Ray P., Oxnard, Cal. Switch-box. No. 1,133,946; Mar. 30; Gaz. vol. 212; p. 1609.
- Farrell, Raymond J., and F. A. Ardron, Seattle, Wash. Spark-plug. No. 1,139,654; May 18; Gaz. vol. 214; p. 754.
- Farrell, William C., San Jose, Cal. Computing-scale. No. 1,131,126; Mar. 9; Gaz. vol. 212; p. 479.
- Farrell, William H., South Bethlehem, Pa. Spark-plug. No. 1,142,511; June 8; Gaz. vol. 215; p. 539.
- Farrelly, Albert J., and G. B. Colegrove, Chicago, Ill. Train-wire connector. No. 1,162,996; Dec. 7; Gaz. vol. 221; p. 91.
- Farrier, Martin P., *et al.* (See Shannon, Charles R., assignor.)
- Farrington, Fred W. (See Gleason, Isaac E., assignor.)
- Farrington Manufacturing Company. (See Brown, Louis E., assignor.)
- Farrington, Thomas H., Owego, N. Y. Wagon-seat. No. 1,134,444; Apr. 6; Gaz. vol. 213; p. 132.
- Farris, Harry W., assignor to Byram Foundry Company, Indianapolis, Ind. Cistern neck-ring and cover. No. 1,152,618; Sept. 7; Gaz. vol. 218; p. 87.
- Farrow, Ernest L., and C. R. Barker, assignors to The Cleveland Wire Spring Company, Cleveland, Ohio. Red-spring. No. 1,143,179; June 15; Gaz. vol. 215; p. 811.
- Farthing, Charles M., and J. Weiser, Idaho, assignors of one-fourth to G. W. Allen, Los Angeles, Cal., and one-fourth to H. Farthing, Weiser, Idaho. Lock-nut. No. 1,148,370; July 27; Gaz. vol. 216; p. 1259.
- Farthing, John. (See Farthing, Charles M. and J.)
- Farthing, Horace, *et al.* (See Farthing, Charles M. and J., assignors.)
- Faruolo, Charles R., New York, N. Y. Automobile-beater. No. 1,124,403; Jan. 12; Gaz. vol. 210; p. 462.
- Farup, Peder, Trondhjem, Norway. Producing titanium-oxygen compounds from ilmenite or titaniferous iron ores and other materials. No. 1,156,220; Oct. 12; Gaz. vol. 219; p. 335.
- Farwell, Fay O., Dubuque, Iowa. Internal-combustion motor. No. 1,155,138; Sept. 28; Gaz. vol. 218; p. 1070.
- Farwell, Percy C. (See Gibbons and Farwell.)
- Fason, Ira C. (See Conkell, Elias W., assignor.)
- Fassen, Charles A., assignor of one-half to T. I. Hart, St. Louis, Mo. Marking-tag. No. 1,166,119; Dec. 28; Gaz. vol. 221; p. 1308.
- Fassett, Daniel F., assignor of one-half to J. A. Shippis, Fairmount, Ill. Nut-lock. No. 1,156,593; Oct. 12; Gaz. vol. 219; p. 466.
- Fassett, Francis K., assignor to The National Cash Register Company, Dayton, Ohio. Registering mechanism. No. 1,132,711; Mar. 23; Gaz. vol. 212; p. 1129.
- Fassett, Francis K., Dayton, Ohio, assignor to L. Ehrlich, St. Louis, Mo. Theft-prevention device for automobiles. No. 1,139,757; May 18; Gaz. vol. 214; p. 789.
- Fassett, George R., Lakewood, Ohio. Thermostatic control. No. 1,155,650; Oct. 5; Gaz. vol. 219; p. 113.
- Fassett, James H. (See Warren, John E., assignor.)
- Fassett, James H., Nashua, N. H. Chart for teaching number tests. No. 1,151,171; Aug. 24; Gaz. vol. 217; p. 1171.
- Fassett, Wallace F., assignor to The Ansonia O & C Company, Ansonia, Conn. Reel for strip material. No. 1,127,979; Feb. 9; Gaz. vol. 211; p. 502.
- Fässler, Ernst, Frankfurt-on-the-Main, Germany, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current rectifier. No. 1,131,919; Mar. 16; Gaz. vol. 212; p. 793.
- Fässler, Ernst, Frankfurt-on-the-Main, Germany, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current rectifier. No. 1,131,920; Mar. 16; Gaz. vol. 212; p. 793.
- Fast, George M., Haviland, Ohio. Surface-pulverizer. No. 1,127,422; Feb. 9; Gaz. vol. 211; p. 305.
- Fast, Gustav. (See Ostergren and Fast.)
- Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark. Feed-regulator for grinding-mills. No. 1,157,979; Oct. 26; Gaz. vol. 219; p. 1046.
- Fasnacht, Warren E., York, Pa. Fire-alarm box. No. 1,146,239; July 13; Gaz. vol. 216; p. 463.
- Fath, George H. (See Refisnyder and Fath.)
- Fath, George H., Denver, Colo. Book and book-leaf for holding fishing-flies and bait-books having snells. No. 1,133,846; Mar. 30; Gaz. vol. 212; p. 1576.
- Fatherson, Louis, and T. I. Hogan, Boston, Mass.; said Fatherson assignor to said Hogan. Lady's garment. No. 1,125,903; Jan. 19; Gaz. vol. 210; p. 1032.
- Fauble, Henry J., and W. Roach, Alliance, Ohio. Railway-tie and fastening therefor. No. 1,145,298; July 6; Gaz. vol. 216; p. 112.
- Fauber, William H., New York, N. Y. Engine-valve. No. 1,127,980; Feb. 9; Gaz. vol. 211; p. 502.
- Fauerbach, Charles M., Hudson Falls, N. Y. Printing-roller. No. 1,135,783; Apr. 13; Gaz. vol. 213; p. 644.
- Faufata, Namaka L., Paia, Hawaii. Railway appliance. No. 1,145,473; July 6; Gaz. vol. 216; p. 175.
- Faulds, John, Oak Park, assignor of one-half to J. I. Marshall, Chicago, Ill. Bake-oven. No. 1,148,669; Aug. 3; Gaz. vol. 217; p. 67.
- Faulhaber, William, Kenosha, Wis. Window attachment. No. 1,164,340; Dec. 14; Gaz. vol. 221; p. 607.
- Faulkner, Albert N., New York, N. Y., assignor to Chesebrough Whitman Co. Step-ladder. No. 1,126,625; Jan. 26; Gaz. vol. 210; p. 1328.
- Faulkner, Albert N., New York, N. Y., assignor to Chesebrough Whitman Co. Scaffold. No. 1,164,587; Dec. 14; Gaz. vol. 221; p. 691.
- Faulkner, Hugh A., Burkmere, S. D. Magazine-hammer. No. 1,135,784; Apr. 13; Gaz. vol. 213; p. 644.
- Faulkner, John H., London, England. Indicating device for automobiles and other road-vehicles. No. 1,145,760; July 6; Gaz. vol. 216; p. 275.
- Faulkner, William J., Russellville, Ark. Deflating-tool for tires. No. 1,126,743; Feb. 2; Gaz. vol. 211; p. 28.
- Faulkner, William P., Kansas City, Mo. Money-transmitting envelop. No. 1,136,948; Apr. 27; Gaz. vol. 213; p. 1134.
- Faulkner, William P., Kansas City, Mo. Attachment for lawn-mowers. No. 1,163,745; Dec. 14; Gaz. vol. 221; p. 400.
- Faulkner, William T. A., Seattle, Wash. Clutch mechanism. No. 1,165,327; Dec. 21; Gaz. vol. 221; p. 990.
- Faulks, Chetias E., Pueblo, Colo. Safety-pin. No. 1,141,952; June 8; Gaz. vol. 215; p. 340.
- Faultless Rubber Company, The. (See Miller, Thomas W., assignor.)
- Faunce, Olin J., Grantham, N. H. Combined jack and thill-support. No. 1,134,377; Apr. 6; Gaz. vol. 213; p. 107.
- Faunt, William J., Sausalito, Cal. Fence-post. No. 1,125,827; Jan. 19; Gaz. vol. 210; p. 1007.
- Faure, Arthur J. B., Paris, France. Rubber-soled shoe. No. 1,125,993; Jan. 26; Gaz. vol. 210; p. 1098.
- Faurot, Henry, Chicago, Ill. Fibrous pad. No. 1,127,748; Feb. 9; Gaz. vol. 211; p. 419.
- Faus, Jacob, Jr., Boulder, Colo. Fastener for automobile-chains, &c. No. 1,127,423; Feb. 9; Gaz. vol. 211; p. 305.
- Faus, Jacob, Jr., Boulder, Colo. Safety-fastener for automobile-chains, &c. No. 1,136,786; Apr. 20; Gaz. vol. 213; p. 1040.
- Fausek, Arthur J., and C. A. Frahm, St. Louis, Mo. Valve. No. 1,128,302; Feb. 16; Gaz. vol. 211; p. 665.
- Fausek, Arthur J. and I. F., St. Louis, Mo. Torch. No. 1,139,959; May 18; Gaz. vol. 214; p. 860.

Alphabetical list of patentees—Continued.

- Fausek, Irving F. (See Fausek, Arthur J. and I. F.)
 Fausse, Joseph, Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,128,303; Feb. 16; Gaz. vol. 211; p. 665.
 Faust, Albert A., Detroit, Mich. Gage. No. 1,155,715; Oct. 5; Gaz. vol. 219; p. 136.
 Faust, Casper, Oshkosh, Wis. Bolster-stake holder. No. 1,139,655; May 18; Gaz. vol. 214; p. 754.
 Faust, Emily C., Byron, Minn. Package-tie. No. 1,161,297; Nov. 23; Gaz. vol. 220; p. 1150.
 Faust, John G., assignor of thirty-five one-hundredths to H. C. Manns, Baltimore, Md. Transmission-gearing. No. 1,144,184; June 22; Gaz. vol. 215; p. 1185.
 Faust, Levin. (See Swenson and Faust.)
 Favary, Ethelbert, Boston, Mass. Cushioning device for tires. No. 1,136,326; Apr. 20; Gaz. vol. 213; p. 876.
 Favary, Ethelbert, East Boston, Mass. Tire. No. 1,136,662; Apr. 20; Gaz. vol. 213; p. 997.
 Favary, Ethelbert, East Boston, Mass. Locking device. No. 1,146,317; July 13; Gaz. vol. 216; p. 489.
 Favier, Georges, Suspension Bridge, N. Y. Molding electrodes. No. 1,150,021; Aug. 17; Gaz. vol. 217; p. 714.
 Favreault, Dolor J., Adams, Mass. Fork and spoon holder. No. 1,151,452; Aug. 24; Gaz. vol. 217; p. 1263.
 Fawcett, Thomas D. (See Hoffman, Triplett, and Fawcett.)
 Fawcett, William H. (See Hoffman, Triplett, and Fawcett.)
 Fawell, Joseph E., assignor to Mackintosh, Hemphill & Co., Pittsburgh, Pa. Rolling-mill. No. 1,131,604; Mar. 9; Gaz. vol. 212; p. 645.
 Fawkes, Leslie H., et al. (See Fawkes, Wilbert C., assignor.)
 Fawkes, Wilbert C., Portland, Oreg. Window-cleaner's life-belt. No. 1,164,589; Dec. 14; Gaz. vol. 221; p. 692.
 Fawkes, Wilbert C., assignor of two-thirds to L. H. Fawkes and one-third to E. E. Hermann, Portland, Oreg. Wall-socket and bolt. No. 1,154,580; Sept. 21; Gaz. vol. 218; p. 849.
 Fawver, Frank, Los Angeles, Cal. Brake. No. 1,135,885; Apr. 13; Gaz. vol. 213; p. 680.
 Fawver, Leslie E., Seligman, Mo. Harrow attachment for cultivators. No. 1,131,499; Mar. 9; Gaz. vol. 212; p. 610.
 Fay, Alpheus, Louisville, Ky. Variable-speed mechanism. No. 1,145,236; July 6; Gaz. vol. 216; p. 92.
 Fay, Alpheus, Louisville, Ky. Mechanical movement. No. 1,149,816; Aug. 10; Gaz. vol. 217; p. 579.
 Fay, Alpheus, Louisville, Ky. Butter-separator. No. 1,155,306; Sept. 28; Gaz. vol. 218; p. 1122.
 Fay, Bernard, Danbury, Conn. Train-controlling apparatus for railways. No. 1,124,002; Jan. 5; Gaz. vol. 210; p. 273.
 Fay, Charles, Sr., Philadelphia, Pa. Composite disk for caps of bottles or jars. No. 1,144,589; June 29; Gaz. vol. 215; p. 1351.
 Fay, Louis D. (See Mardon and Fay.)
 Fay, Kimmon C., Philadelphia, Pa. Turning-lathe. No. 1,132,920; Mar. 23; Gaz. vol. 212; p. 1206.
 Fay, Thomas F., Chicago, Ill., assignor to T. J. Fay, Elkhart, Ind. Collapsible-frame parcel-sack. No. 1,155,475; Oct. 5; Gaz. vol. 219; p. 53.
 Fay, Thomas J. (See Fay, Thomas F., assignor.)
 Fay, Thomas J., New York, N. Y. Valve mechanism for internal-combustion engines. No. 1,149,745; Aug. 10; Gaz. vol. 217; p. 553.
 Fay, Thomas J., New York, N. Y. Valve mechanism for internal-combustion engines. No. 1,157,374; Oct. 19; Gaz. vol. 219; p. 772.
 Fay, Thomas J., Brooklyn, N. Y., assignor to The Goby Engine Company. Internal-combustion engine. No. 1,142,949; June 15; Gaz. vol. 215; p. 729.
 Fay, Winthrop L., Dexter, Me. Lathe-turret. No. 1,151,004; Aug. 24; Gaz. vol. 217; p. 1113.
 Fay, Winthrop L., Dexter, Me. Diameter-stop for lathes. No. 1,154,107; Sept. 21; Gaz. vol. 218; p. 687.
 Faye-Hansen, Karl M. (See Harlow and Faye-Hansen.)
 Faye, William E., Toronto, Ontario, assignor of one-half to T. Martin, Winnipeg, Manitoba, Canada. Attachment for handaws. No. 1,127,749; Feb. 9; Gaz. vol. 211; p. 420.
 Fazackerley, William, New Cross, London, assignor of one-half to Imperial Tobacco Company, (of Great Britain and Ireland.) Limited, Bristol, England. Weighing and sorting apparatus. No. 1,141,048; May 25; Gaz. vol. 214; p. 1276.
 Fazackerley, Joseph E., Pittsfield, Mass. Mechanical ladle-skimmer and heat-protector. No. 1,139,960; May 18; Gaz. vol. 214; p. 860.
 Fazi, Romolo de, Rome, Italy. Alcoholic fermentation. No. 1,140,882; May 25; Gaz. vol. 214; p. 1219.
 Feagler, Claude, Garrett, Ind. Reversing-gear mechanism. No. 1,137,597; Apr. 27; Gaz. vol. 213; p. 1366.
 Fearless Dishwasher Company. (See Barley, William B., assignor.)
 Fearn, William R., Camden, N. J. Non-refillable bottle. No. 1,143,695; June 22; Gaz. vol. 215; p. 1014.
 Fearnought, Charles, Indianapolis, Ind. Necktie-former. No. 1,164,590; Dec. 14; Gaz. vol. 221; p. 692.
 Fearon, Thomas E., Philadelphia, Pa. Cigar-bunch-forming machine. No. 1,133,847; Mar. 30; Gaz. vol. 212; p. 1577.
 Fears, John, Waco, Tex. Signaling mechanism. No. 1,131,353; Mar. 9; Gaz. vol. 212; p. 557.
 Featheringill, Walter, San Diego, Cal. Combination-tool for use in applying and removing antiskid-chains. No. 1,150,260; Aug. 17; Gaz. vol. 217; p. 800.
 Featheringill, William. (See Parr, Webster A., assignor.)
 Featherstone-Smith, Reginald A., and M. B. Cooper, London, England. Projectile for destroying airships, balloons, and other aerostats. No. 1,139,354; May 11; Gaz. vol. 214; p. 610.
 Featherstone, Willard B., Washington, D. C. Concrete building. No. 1,124,404; Jan. 12; Gaz. vol. 210; p. 462.
 Featherstone, Willard B., Washington, D. C., assignor, by mesne assignments, to H. P. Patents and Processes Company, Inc. Motion-picture film. No. 1,126,188; Jan. 26; Gaz. vol. 210; p. 1171.
 Featherstone, Willard B., Washington, D. C., assignor to H. P. Patents and Processes Company, Inc. Photographic film. No. 1,145,410; July 6; Gaz. vol. 216; p. 152.
 Featherstone, Willard B., Washington, D. C., assignor, by mesne assignments, to Synthetic Corporation, New York, N. Y. Color photography. No. 1,127,382; Feb. 2; Gaz. vol. 211; p. 250.
 Fecko, Jonas, Bayonne, N. J. Heel-plate. No. 1,136,112; Apr. 20; Gaz. vol. 213; p. 799.
 Feczko, George, Braddock, Pa. Bottle-closure. No. 1,139,508; May 18; Gaz. vol. 214; p. 702.
 Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,139,114; May 11; Gaz. vol. 214; p. 529.
 Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,139,961; May 18; Gaz. vol. 214; p. 861.
 Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,148,448; July 27; Gaz. vol. 216; p. 1284.
 Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Metal-bending machine. No. 1,148,670; Aug. 3; Gaz. vol. 217; p. 68.
 Fedders, John M., assignor, by mesne assignments, to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Metal-bending machine. No. 1,149,356; Aug. 10; Gaz. vol. 217; p. 413.
 Fedders Manufacturing Company. (See Fedders, John M., assignor.)
 Feder, Frank A., Lincoln, Nebr. Spirit-level. No. 1,132,318; Mar. 16; Gaz. vol. 212; p. 940.
 Feder, Gottfried, Munich, Germany. Apparatus for making concrete piles in the ground. No. 1,140,303; May 18; Gaz. vol. 214; p. 980.
 Federal Electric Company. (See Keil, Gustav B., assignor.)
 Federal Engineering Company. (See Lombard, Levi W., assignor.)
 Federal-Huber Co. (See Watrous, Earl G., assignor.)
 Federal-Huber Company. (See Graham, William S., assignor.)
 Federal-Huber Company. (See Johnson, John H., assignor.)
 Federal Manufacturing Company. (See Ballard, Milton H., assignor.)
 Federal Manufacturing Company. (See Coughlin, Joseph D., assignor.)
 Federal Rubber Manufacturing Company. (See Bain, Forée, assignor.)
 Federal Safety Window Company, The. (See Kilmer, Elmer E., assignor.)
 Federal Screw Corporation. (See Carpenter, Teunaski Z., assignor.)
 Federal Signal Company. (See Cade, John T., assignor.)
 Federal Signal Company. (See Reichard, Wade H., assignor.)
 Federal Signal Company. (See Reid, James, assignor.)
 Federal Signal Company. (See Renshaw, Alfred H., assignor.)
 Federal Telegraph Company. (See Logwood, Charles V., assignor.)
 Federal Toy Pistol Company. (See Rohn, John R., assignor.)
 Fedi, Henry G., assignor of one-third to W. W. Soukup, Duluth, Minn. Life-boat. No. 1,152,158; Aug. 31; Gaz. vol. 217; p. 1556.
 Fee, Walter L., Moline, Ill. Disk-clutch transmission. No. 1,154,749; Sept. 28; Gaz. vol. 218; p. 936.
 Feeley, Frank G., Chicago, Ill., assignor to M. D. Knowlton Company, Rochester, N. Y. Locking device. No. 1,138,368; May 4; Gaz. vol. 214; p. 228.
 Feeley, Frank G., Chicago, Ill., assignor to M. D. Knowlton Company, Rochester, N. Y. Cutting mechanism. No. 1,138,369; May 4; Gaz. vol. 214; p. 229.
 Feeley, Frank G., Chicago, Ill., assignor to M. D. Knowlton Company, Rochester, N. Y. Slitting-machine. No. 1,139,355; May 11; Gaz. vol. 214; p. 610.
 Feeney, William P., Hudson Falls, N. Y. Automatic stuff-box for paper-making machines. No. 1,143,523; June 15; Gaz. vol. 215; p. 929.
 Feeney, William P., Hudson Falls, assignor of one-fourth to W. Germain, Fort Edward, N. Y. Automatic stuff-box for paper-making machines. No. 1,134,831; Apr. 6; Gaz. vol. 213; p. 270.

Alphabetical list of patentees—Continued.

- Feer, Fritz, Basel, Switzerland. Acetylene-gas generator. No. 1,132,921; Mar. 23; Gaz. vol. 212; p. 1207.
- Feerick, James M., Nashville, Tenn. Casting apparatus. No. 1,141,788; June 1; Gaz. vol. 215; p. 246.
- Feesser, Viktor, assignor to G. Rau, Doublefabrik, Pforzheim, Germany. Solder-cored wire. No. 1,148,223; July 27; Gaz. vol. 216; p. 1206.
- Fefell, Henry H., assignor to Ohmer Fare Register Company, Dayton, Ohio. Fare-box. No. 1,142,244; June 8; Gaz. vol. 215; p. 444.
- Fegely, Frederick W., Allentown, Pa., assignor to Modern Bag Company. Wire-tie twister. No. 1,136,220; Apr. 20; Gaz. vol. 213; p. 839.
- Fegley, Thomas J., assignor to North Bro's M'fg Co., Philadelphia, Pa. Tap-wrench. No. 1,132,319; Mar. 16; Gaz. vol. 212; p. 940.
- Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's M'fg Co., Philadelphia, Pa. Vise. No. 1,132,320; Mar. 16; Gaz. vol. 212; p. 940.
- Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's M'fg Co., Philadelphia, Pa. Chuck. No. 1,138,465; May 4; Gaz. vol. 214; p. 262.
- Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's M'fg Co., Philadelphia, Pa. Vise. No. 1,144,828; June 29; Gaz. vol. 215; p. 1435.
- Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's M'fg Co., Philadelphia, Pa. Ratchet-drill. No. 1,163,072; Dec. 7; Gaz. vol. 221; p. 117.
- Fegley, Victor, Philadelphia, Pa., assignor to Fabec Manufacturing Company, Camden, N. J. Ink-distributor for printing-presses. No. 1,163,013; Dec. 7; Gaz. vol. 221; p. 118.
- Fehrenz, Frederick A., Syracuse, N. Y. Nut-lock. No. 1,144,645; June 29; Gaz. vol. 215; p. 1370.
- Fehrer, Joseph, Fort Washington, Pa. Window-shade-roller mounting. No. 1,165,769; Dec. 28; Gaz. vol. 221; p. 1186.
- Fehringer, Max, Worcester, Mass. Composition of matter to be used for bronze-powder varnish. No. 1,157,768; Oct. 26; Gaz. vol. 219; p. 971.
- Fehrman, Paul F. E., Santa Rosa, Cal. Non-refillable bottle. No. 1,145,299; July 6; Gaz. vol. 216; p. 113.
- Feicht, Frank T., Canton, Ohio. Sash-lock. No. 1,140,027; May 18; Gaz. vol. 214; p. 886.
- Feigenbaum, Isaac, Cleveland, Ohio. Life-saving apparatus. No. 1,131,127; Mar. 9; Gaz. vol. 212; p. 480.
- Feilner, Karl, Nuremberg, Germany. Starting device for multicylinder internal-combustion engines. No. 1,127,218; Feb. 2; Gaz. vol. 211; p. 195.
- Feinagle, Karl K., Cherokee, Iowa. Rotary drill. No. 1,156,001; Oct. 5; Gaz. vol. 219; p. 234.
- Feist, Max, Toutle, Wash. Footboard. No. 1,129,342; Feb. 23; Gaz. vol. 211; p. 1061.
- Feistel, Augustus R., York, Pa. Tool for inserting springs in eyeglasses. No. 1,162,592; Nov. 30; Gaz. vol. 220; p. 1344.
- Fekete, John, Bridgeport, Conn. Valve-grinder. No. 1,135,677; Apr. 13; Gaz. vol. 213; p. 609.
- Fekete, Julius, New York, N. Y. Combination folding cot and stretcher. No. 1,144,760; June 29; Gaz. vol. 215; p. 1411.
- Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Gearing. No. 1,164,080; Dec. 14; Gaz. vol. 221; p. 517.
- Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Balanced crank-shaft. No. 1,165,861; Dec. 28; Gaz. vol. 221; p. 1216.
- Felber, Lorenz, Franklinton, La. Axle-spindle. No. 1,150,753; Aug. 17; Gaz. vol. 217; p. 969.
- Feld, Walther, deceased, Linz-on-the-Rhine, Germany; K. E. Markel, South Kensington, England, temporary administrator. Production of sulfur and sulfates from polythionate solutions. No. 1,127,219; Feb. 2; Gaz. vol. 211; p. 196.
- Feldhaus, Fred, Akron, Ohio. Steel tire. No. 1,158,038; Oct. 26; Gaz. vol. 219; p. 1066.
- Feldman, John. (See Schlesinger, Max, assignor.)
- Feldman, Leopold, Brooklyn, N. Y. Combined belt and garment. No. 1,147,225; July 20; Gaz. vol. 216; p. 828.
- Feldmann, Ernst, assignor to The Ingersoll Milling Machine Co., Rockford, Ill. Milling-machine spindle-saddle. No. 1,143,373; June 15; Gaz. vol. 215; p. 879.
- Feldmann, Louis, Jr., and T. E. Creelius, assignors to Multiplex Display Fixture Company, St. Louis, Mo. Display-rack. No. 1,152,994; Jan. 26; Gaz. vol. 210; p. 1098.
- Feldmeier, Harvey, and C. B. Dalzell, assignors to D. H. Burrell & Company, Little Falls, N. Y. Pasteurizing milk. No. 1,138,097; May 4; Gaz. vol. 214; p. 132.
- Félicité, Louis, assignor to La Société Huilerie et Savonnerie de Lurien, Filon, Bouches-du-Rhône, France. Apparatus for making wood-charcoal. No. 1,137,852; May 4; Gaz. vol. 214; p. 45.
- Felker Brothers Manufacturing Company. (See Fitzgerald, Jeremiah C., assignor.)
- Felker, William S., Mancos, Colo. Tool for curing, spicing, and seasoning meats. No. 1,155,139; Sept. 28; Gaz. vol. 218; p. 1070.
- Fell, Charles, Elyria, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Apparatus for scraping pipe-skelp. No. 1,142,950; June 15; Gaz. vol. 215; p. 730.
- Fell, Charles, Elyria, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Galvanizing-furnace. No. 1,156,353; Oct. 12; Gaz. vol. 219; p. 381.
- Fell, Clark B., Northfield, Ohio. Grading-machine. No. 1,150,588; Aug. 17; Gaz. vol. 217; p. 913.
- Felland, Olaus B., Edmonton, Alberta, Canada. Life-buoy or life-preserver. No. 1,148,583; Aug. 3; Gaz. vol. 217; p. 36.
- Feller, Adolph F., Berkeley, Cal. Controller for electric circuits. No. 1,126,434; Jan. 26; Gaz. vol. 210; p. 1257.
- Felley, Joseph, Paterson, N. J. Motor-skate. No. 1,164,798; Dec. 21; Gaz. vol. 221; p. 807.
- Fellman, Edward J., Milwaukee, Wis. Screen-hanger. No. 1,155,412; Oct. 5; Gaz. vol. 219; p. 31.
- Fellmeth, Jacob W. (See King and Fellmeth.)
- Fellowes, William E., Swansea, England. Reflecting device for motor-vehicles. No. 1,135,446; Apr. 13; Gaz. vol. 213; p. 527.
- Fellows, George V., Syracuse, N. Y. Shaper-head. No. 1,136,415; Apr. 20; Gaz. vol. 213; p. 910.
- Fellows, Olin S. (See Hopkins and Fellows.)
- Fellroth, Erick O., San Francisco, Cal. Pocket. No. 1,129,186; Feb. 23; Gaz. vol. 211; p. 1007.
- Fells, John M., et al. (See Jones, Morgan L., assignor.)
- Fells, Orley E., Spokane, Wash. Vertically-adjustable hinge. No. 1,154,850; Sept. 28; Gaz. vol. 218; p. 969.
- Felsberg, Arthur P., Newark, N. J. Door operating and closing mechanism. No. 1,151,773; Aug. 31; Gaz. vol. 217; p. 1422.
- Felsberg, Edward, Montgomery, Pa. Grip-handle. No. 1,125,280; Jan. 19; Gaz. vol. 210; p. 812.
- Felsing, Samuel D., assignor of one-half to C. Loring, Crookston, Minn. Machine for screening, cleaning, and separating seed-grain. No. 1,149,567; Aug. 10; Gaz. vol. 217; p. 487.
- Felsman, Albert J., Macomb, Ill. Corn-planter. No. 1,161,298; Nov. 23; Gaz. vol. 220; p. 1151.
- Felstead, Thomas W., Detroit, Mich. Meter-receptacle. No. 1,158,471; Nov. 2; Gaz. vol. 220; p. 21.
- Felt & Tarrant Manufacturing Company. (See Turck, Joseph A., assignor.)
- Felten, David F., Parsons, Kans., assignor to The Gas Crude Oil Burner Company, Muskogee, Okla. Crude-oil burner. No. 1,158,668; Nov. 2; Gaz. vol. 220; p. 92.
- Felton, Alford N., Armour, S. D. Steam-heating. No. 1,158,996; Nov. 2; Gaz. vol. 220; p. 204.
- Felton, Charles W., assignor of one-half to W. B. Harrison, Washington, D. C. Lubricator for piston and plunger rods. No. 1,166,341; Dec. 28; Gaz. vol. 221; p. 1390.
- Felts, Lytal M., Baltimore, Md. Leaf-spring. No. 1,146,318; July 13; Gaz. vol. 216; p. 489.
- Feltus, Henry A., Minneapolis, Minn. Railway-track attachment. No. 1,125,677; Jan. 19; Gaz. vol. 210; p. 954.
- Feltwell, Peter M. (See Beatley and Feltwell.)
- Fenaroli, Pietro, Milan, Italy. Glazing natural and artificial stones and plastic materials. No. 1,164,710; Dec. 21; Gaz. vol. 221; p. 776.
- Fender, William J., Silver Creek, N. Y., assignor of one-half to J. G. Hintz, Milwaukee, Wis. Dust-collector. No. 1,165,401; Dec. 28; Gaz. vol. 221; p. 1057.
- Fendler, Ettore, Vienna, Austria-Hungary. Package for dispensing small quantities of liquid or gaseous radioactive substances. No. 1,152,083; Aug. 31; Gaz. vol. 217; p. 1531.
- Fendler, Georg. (See Frank and Fendler.)
- Fendler, Georg, Schöneberg, near Berlin, Germany. Removing acetone from lecithin-containing substances. No. 1,144,829; June 29; Gaz. vol. 215; p. 1435.
- Fenlason, Orin C., Hoquiam, Wash. Beer-carton. No. 1,125,828; Jan. 19; Gaz. vol. 210; p. 1007.
- Fenlason, Orin C., Hoquiam, Wash. Beer-carton. No. 1,125,829; Jan. 19; Gaz. vol. 210; p. 1007.
- Fenlason, Orin C., Hoquiam, Wash. Collapsible veneer box. No. 1,142,084; June 8; Gaz. vol. 215; p. 388.
- Fenlason, Orin C., Hoquiam, Wash. Pneumatic feeding mechanism for branding or printing machines. No. 1,148,371; July 27; Gaz. vol. 216; p. 1260.
- Fenlason, Orin C., Hoquiam, Wash. Box. No. 1,148,372; July 27; Gaz. vol. 216; p. 1260.
- Fenlason, Orin C., Raymond, Wash. Collapsible veneer box. No. 1,152,084; Aug. 31; Gaz. vol. 217; p. 1531.
- Fenn, Raymond W. (See Cross, Joseph G., assignor.)
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Means for sterilizing vessel-closures. No. 1,141,178; June 1; Gaz. vol. 215; p. 31.
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Preserving food products. No. 1,141,238; June 1; Gaz. vol. 215; p. 52.
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Apparatus for sterilizing perishable materials. No. 1,141,239; June 1; Gaz. vol. 215; p. 52.
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Sterilizing-machine. No. 1,141,240; June 1; Gaz. vol. 215; p. 53.
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Treating-chamber for sterilizing-machines. No. 1,141,241; June 1; Gaz. vol. 215; p. 53.

Alphabetical list of patentees—Continued.

- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Sterilizing organic material. No. 1,141,242; June 1; Gaz. vol. 215; p. 54.
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Machine for sterilizing organic materials. No. 1,159,659; Nov. 9; Gaz. vol. 220; p. 469.
- Fennell, James T., Philadelphia, Pa. Baffle for boilers. No. 1,124,405; Jan. 12; Gaz. vol. 210; p. 462.
- Fennell, William, Southam, near Rugby, England. Tube-mill. No. 1,154,981; Sept. 28; Gaz. vol. 218; p. 1013.
- Fennell, William, Southam, near Rugby, England. Tube-mill. No. 1,154,982; Sept. 28; Gaz. vol. 218; p. 1014.
- Fenner, George P., New London, Conn. Printing-press. No. 1,150,107; Aug. 17; Gaz. vol. 217; p. 744.
- Fennerty, John E., et al. (See Crofoot, Edwin E., assignor.)
- Fenning Film Service, The. (See Bohringer, Arthur J., assignor.)
- Fenofilm Corporation. (See Wiechmann, Ferdinand G., assignor.)
- Fenske, Andrew. (See Bennett, Don A., assignor.)
- Fenstermaker, George W., assignor of one-half to P. O'Connor, Amboy, Ill. Nut-lock. No. 1,136,416; Apr. 20; Gaz. vol. 213; p. 910.
- Fenton, Ernest V., Des Moines, Iowa. Ladder. No. 1,142,806; June 15; Gaz. vol. 215; p. 679.
- Fenton, Isaac, deceased; L. Fenton, administratrix, Trenton, N. J. Water-closet tank. No. 1,146,558; July 13; Gaz. vol. 216; p. 576.
- Fenton, Louisa, administratrix. (See Fenton, Isaac.)
- Fenton, Thomas P., et al. (See Zumino, Lorenzo, assignor.)
- Fentress, Frank P., Detroit, Mich. Folding step for bicycles. No. 1,125,281; Jan. 19; Gaz. vol. 210; p. 813.
- Fentress, Frank P., Detroit, Mich., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Supplementary seat and carrier for motor-cycles. No. 1,144,646; June 29; Gaz. vol. 215; p. 1370.
- Ferber, Philip, assignor to The Keuffel & Esser Company, Hoboken, N. J. Telescope. No. 1,137,192; Apr. 27; Gaz. vol. 213; p. 1222.
- Ferber, William M., assignor to J. R. Bunting Bedding Company, Philadelphia, Pa. Couch-hammock. No. 1,147,385; July 20; Gaz. vol. 216; p. 884.
- Ferber, William M., assignor to J. R. Bunting Bedding Company, Philadelphia, Pa. Couch-hammock. No. 1,153,680; Sept. 14; Gaz. vol. 218; p. 504.
- Ferebee, Washington R., and G. Sutton, Brooklyn, N. Y. Rail-joint. No. 1,133,545; Mar. 30; Gaz. vol. 212; p. 1467.
- Ferella, Telemaco, Monessen, Pa. Prop or stand for bicycles. No. 1,163,592; Dec. 7; Gaz. vol. 221; p. 300.
- Fergodo, George J., San Francisco, Cal. Two-speed-transmission mechanism for motor-cycles. No. 1,125,282; Jan. 19; Gaz. vol. 210; p. 813.
- Ferguson, Albert M. (See Patterson and Ferguson.)
- Ferguson, Archibald B., Spokane, Wash. Spring suspension. No. 1,127,608; Feb. 9; Gaz. vol. 211; p. 370.
- Ferguson, Arnold B. (See Knipple, Charles W., assignor.)
- Ferguson, Charles W., Houston, Tex. Coop. No. 1,135,886; Apr. 13; Gaz. vol. 213; p. 681.
- Ferguson, Clara L. K., Philadelphia, Pa. Flexible dress-overshoe. (Reissue.) No. 1,3928; June 15; Gaz. vol. 215; p. 959.
- Ferguson, Clara L. K., Philadelphia, Pa. Shoe. No. 1,147,493; July 20; Gaz. vol. 216; p. 922.
- Ferguson, Clarence L., and R. B. Stetson, Springvale, Me. Self-cleaning rake. No. 1,128,239; Feb. 9; Gaz. vol. 211; p. 591.
- Ferguson, Ernest F. (See Decker and Ferguson.)
- Ferguson, George E., New York, N. Y., assignor to Pyrene Manufacturing Company. Rendering corrosive fluids non-corrosive. No. 1,151,255; Aug. 24; Gaz. vol. 217; p. 1200.
- Ferguson, George J., St. Louis, Mo. Valve. No. 1,152,888; Sept. 7; Gaz. vol. 218; p. 187.
- Ferguson, George M., Elyria, Ohio. Portable safety-stop for railways. No. 1,142,807; June 15; Gaz. vol. 215; p. 679.
- Ferguson, Harley L., Kansas City, Mo. Means for purifying water. No. 1,128,121; Feb. 9; Gaz. vol. 211; p. 552.
- Ferguson, Henry M., New Orleans, La. Pile-driver. No. 1,132,321; Mar. 16; Gaz. vol. 212; p. 941.
- Ferguson, Hugh S., assignor to The Whitin Machine Works, Whitinsville, Mass. Stirrup. No. 1,149,191; Aug. 10; Gaz. vol. 217; p. 352.
- Ferguson, Ida D., Dubuque, Iowa. Horseshoe. No. 1,142,808; June 15; Gaz. vol. 215; p. 680.
- Ferguson, Isaac T., Tiptonville, Tenn. Cultivator. No. 1,143,524; June 15; Gaz. vol. 215; p. 929.
- Ferguson, James E., Dwight, Ill. Lubricant-dispenser. No. 1,162,997; Dec. 7; Gaz. vol. 221; p. 92.
- Ferguson, Jay A., Chicago, Ill. Steam-heating apparatus. No. 1,131,049; Mar. 9; Gaz. vol. 212; p. 454.
- Ferguson, John F. (See Gratzick and Ferguson.)
- Ferguson, John M. (See Griffith, George, assignor.)
- Ferguson, Joseph C., Jr., Philadelphia, Pa. Spectacle-frame. No. 1,147,712; July 27; Gaz. vol. 216; p. 1025.
- Ferguson, Peter L., Ogden, Utah. Condiment-holder. No. 1,165,238; Dec. 21; Gaz. vol. 221; p. 962.
- Ferguson, Sylvester V., Polson, Mont. Pump-operating mechanism. No. 1,160,270; Nov. 16; Gaz. vol. 220; p. 739.
- Ferguson, Thomas H. (See Hatch, Austin S., assignor.)
- Ferguson, William H., Columbus, Ohio. Sparkers for explosive-engines. No. 1,152,085; Aug. 31; Gaz. vol. 217; p. 1531.
- Ferguson, William H., San Francisco, Cal., assignor to The P. & M. Co., Chicago, Ill. Antireeper. No. 1,152,802; Sept. 7; Gaz. vol. 218; p. 154.
- Fergusson, Alan R., New York, N. Y., assignor to Montague Mailing Machinery Company. Flash-index plate and apparatus for using same. No. 1,139,509; May 18; Gaz. vol. 214; p. 702.
- Ferla, John, New York, N. Y., assignor to American Mineral Wood Manufacturing Company. Insulating material. No. 1,165,164; Dec. 21; Gaz. vol. 221; p. 936.
- Fern, Benjamin F., assignor of one-half to F. S. Fern, Scranton, Pa. Safety device for mine-cars. No. 1,165,659; Dec. 28; Gaz. vol. 221; p. 1147.
- Fern, Florence S. (See Fern, Benjamin F., assignor.)
- Fernald, Adelbert, Boston, Mass. Crown-tooth. No. 1,164,599; Dec. 14; Gaz. vol. 221; p. 695.
- Fernandez, Francis M., Boston, Mass. Combination collapsible shipping-case. No. 1,140,972; May 25; Gaz. vol. 214; p. 1252.
- Fernandez, José, Houston, Tex. Self-inflating tire. No. 1,125,678; Jan. 19; Gaz. vol. 210; p. 954.
- Ferngren, Enoch T., assignor of one-fourth to F. E. Wear, Kansas City, Mo. Glass-furnace. No. 1,143,112; June 15; Gaz. vol. 215; p. 786.
- Ferngren, Oscar T. (See Anderson and Ferngren.)
- Fernle, William J. (See Adam and Fernle.)
- Ferra, Pierre, Caluire-et-Cuire, near Lyon, France. Thermopile. No. 1,127,424; Feb. 9; Gaz. vol. 211; p. 306.
- Ferran, Ernest, San Francisco, Cal. Valve for flushing-tanks. No. 1,134,949; Apr. 6; Gaz. vol. 213; p. 308.
- Ferran, Ernest, San Francisco, Cal. Sink-strainer. No. 1,161,766; Nov. 23; Gaz. vol. 220; p. 1312.
- Ferran, Ernest, and F. D. Tweeddale, San Francisco, Cal. Call-registering device for telephones. No. 1,135,887; Apr. 13; Gaz. vol. 213; p. 681.
- Ferranti, Sebastian Z. de, Baslow, England. Roller-bearing. No. 1,131,612; Mar. 9; Gaz. vol. 212; p. 648.
- Ferranti, Sebastian Z. de, Hampstead, London, England. Elastic-fluid engine. No. 1,132,456; Mar. 16; Gaz. vol. 212; p. 989.
- Ferranti, Sebastian Z. de, Hampstead, London, England. Electrically welding turbine-blades. No. 1,148,221; July 27; Gaz. vol. 216; p. 1205.
- Ferrari, Joseph J., Syracuse, N. Y. Adjustable eraser. No. 1,136,592; Apr. 20; Gaz. vol. 213; p. 972.
- Ferrari, Pasquino, Fall River, Mass. Loom-shuttle. No. 1,151,517; Aug. 24; Gaz. vol. 217; p. 1288.
- Ferrari, Pasquino, Fall River, Mass. Cover for milk-bottles. No. 1,156,989; Oct. 19; Gaz. vol. 219; p. 636.
- Ferrari, Pasquino, Fall River, Mass. Loom-shuttle. No. 1,161,646; Nov. 23; Gaz. vol. 220; p. 1271.
- Ferrarini, Antonio G., Chicago, Ill. Surfacing-machine. No. 1,134,116; Apr. 6; Gaz. vol. 213; p. 12.
- Ferraris, Attilio, Turin, Italy. Pump for corrosive liquids. No. 1,159,201; Nov. 2; Gaz. vol. 220; p. 276.
- Ferrer, José, and E. Alonso, San Juan, Porto Rico. Rotary valve. No. 1,157,684; Oct. 26; Gaz. vol. 219; p. 943.
- Ferrer, José, and E. Alonso, San Juan, Porto Rico. Reversing-gear. No. 1,160,058; Nov. 9; Gaz. vol. 220; p. 610.
- Ferres, Jeffrey T., Los Angeles, Cal. Machine for making corrugated paper. No. 1,135,509; Apr. 13; Gaz. vol. 213; p. 548.
- Ferres, Jeffrey T., Los Angeles, Cal. Machine for making corrugated paper-board. No. 1,142,409; June 8; Gaz. vol. 215; p. 503.
- Ferres, Jeffrey T., assignor to The Sefton Manufacturing Company, Anderson, Ind. Brooder. No. 1,152,619; Sept. 7; Gaz. vol. 218; p. 87.
- Ferretto, Andrea, Milan, Italy. Type-writer. No. 1,155,651; Oct. 5; Gaz. vol. 219; p. 113.
- Ferris, David A., Ithaca, N. Y. Gluing-clamp. No. 1,162,759; Dec. 7; Gaz. vol. 221; p. 9.
- Ferris, George H., Central City, Nebr. Form for stacking grain or the like. No. 1,164,486; Dec. 14; Gaz. vol. 221; p. 658.
- Ferris, Harry H., Huntington Beach, Cal. Smoking-pipe. No. 1,135,447; Apr. 13; Gaz. vol. 213; p. 527.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Means for supporting members of stalls and the like. No. 1,124,718; Jan. 12; Gaz. vol. 210; p. 576.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Hay-carrier. No. 1,126,435; Jan. 26; Gaz. vol. 210; p. 1257.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Stall construction. No. 1,145,474; July 6; Gaz. vol. 216; p. 176.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Means for supporting members of stalls and the like. No. 1,151,256; Aug. 24; Gaz. vol. 217; p. 1200.

Alphabetical list of patentees—Continued.

- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Overhead track-joint and supporting means therefor. No. 1,156,472; Oct. 12; Gaz. vol. 219; p. 424.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Co., Harvard, Ill. Pence-post. No. 1,158,911; Nov. 2; Gaz. vol. 220; p. 176.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Cattle-watering device. No. 1,160,588; Nov. 16; Gaz. vol. 220; p. 851.
- Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Cattle-watering device. No. 1,162,286; Nov. 30; Gaz. vol. 220; p. 1542.
- Ferris, Henry L. and H. J., assignors to Hunt, Helm, Ferris & Company, Harvard, Ill. Calf-pen. No. 1,128,769; Feb. 16; Gaz. vol. 211; p. 823.
- Ferris, Howard J. (See Ferris, Henry L. and H. J.)
- Ferris, Howard J., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Stall construction. No. 1,160,589; Nov. 16; Gaz. vol. 220; p. 851.
- Ferris, Joseph A., New York, N. Y. Window. No. 1,127,981; Feb. 9; Gaz. vol. 211; p. 503.
- Ferris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Cable-brake for drag-line excavators. No. 1,149,357; Aug. 10; Gaz. vol. 217; p. 514.
- Ferris, Warren B., Columbus, Ohio. Attachment for brick-making-machines. No. 1,146,144; July 13; Gaz. vol. 216; p. 430.
- Ferris, William I., Westfield, N. J. Dispensing-stopper for ink-bottles. No. 1,143,525; June 15; Gaz. vol. 215; p. 929.
- Ferris, William I., Westfield, N. J., assignor to L. E. Waterman Company, New York, N. Y. Gold pen. No. 1,154,498; Sept. 21; Gaz. vol. 218; p. 820.
- Ferris, William S., et al., trustees. (See Loshbough, James E., assignor.)
- Ferris, William S., et al., trustees. (See McGill, Albert E., assignor.)
- Ferriss, Edward, assignor to W. Schwab, Minneapolis, Minn. Wheel. No. 1,156,676; Oct. 12; Gaz. vol. 219; p. 497.
- Ferro, Casimiro, Ansonia, Conn. Register-gages and grippers for job-presses. No. 1,154,694; Sept. 28; Gaz. vol. 218; p. 918.
- Ferro Concrete Construction Company, The. (See Anderson, William P., assignor.)
- Ferry, Clive C., Middlebury Center, Pa. Tire. No. 1,131,500; Mar. 9; Gaz. vol. 212; p. 610.
- Ferry, John M., Baltimore, Md. Compound for watertight joints. No. 1,153,427; Sept. 14; Gaz. vol. 218; p. 415.
- Ferry, Thomas, Cleveland, Ohio. Device for upsetting set-screws, cap-screws, and the like. No. 1,146,145; July 13; Gaz. vol. 216; p. 430.
- Fesenmaier, Joseph, New Ulm, Minn. Bearing for potato-washers. No. 1,164,799; Dec. 21; Gaz. vol. 221; p. 808.
- Fessenden, George R., Jr., Lancaster, N. Y. Electric-circuit-protecting apparatus. No. 1,124,599; Jan. 12; Gaz. vol. 210; p. 533.
- Fessenden, George R., Jr., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,164,635; Dec. 21; Gaz. vol. 221; p. 750.
- Fessenden, Reginald A., Brookline, Mass. Apparatus for converting heat into work. No. 1,132,465; Mar. 16; Gaz. vol. 212; p. 992.
- Fessenden, Reginald A., Brookline, Mass. Method of and apparatus for reproducing impulses. No. 1,133,435; Mar. 30; Gaz. vol. 212; p. 1428.
- Fessenden, Reginald A., Brant Rock, Mass. Amplifying electrical impulses. No. 1,154,750; Sept. 28; Gaz. vol. 218; p. 936.
- Fessenden, Reginald A., Washington, D. C., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Sending mechanism for electromagnetic waves. No. 1,126,966; Feb. 2; Gaz. vol. 211; p. 105.
- Fessenden, Reginald A., Washington, D. C., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Apparatus for the transmission of energy by electric oscillations. No. 1,156,677; Oct. 12; Gaz. vol. 219; p. 497.
- Fessenden, Reginald A., Washington, D. C., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Transmitting and receiving signals. No. 1,157,094; Oct. 19; Gaz. vol. 219; p. 673.
- Fessenden, Reginald A., Washington, D. C., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Apparatus for generating and receiving electromagnetic waves. No. 1,158,123; Oct. 26; Gaz. vol. 219; p. 1097.
- Fessenden, Reginald A., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Electric signaling. No. 1,132,568; Mar. 23; Gaz. vol. 212; p. 1077.
- Fessenden, Reginald A., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Wireless telegraphy. No. 1,132,569; Mar. 23; Gaz. vol. 212; p. 1077.
- Fessenden, Reginald A., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Transmitting and receiving electrical energy. No. 1,141,386; June 1; Gaz. vol. 215; p. 108.
- Fessenden, Reginald A., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Apparatus for the transmission and receipt of electrical energy. No. 1,141,453; June 1; Gaz. vol. 215; p. 131.
- Fessenden, Reginald A., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Wireless telegraphy. No. 1,147,010; July 20; Gaz. vol. 216; p. 753.
- Fessenden, Reginald A., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Signaling apparatus for aerial navigation. No. 1,158,124; Oct. 26; Gaz. vol. 219; p. 1097.
- Fessenden, Reginald A., Brant Rock, Mass., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Apparatus for wireless signaling. No. 1,165,862; Dec. 28; Gaz. vol. 221; p. 1217.
- Fessmann, Louis, and G. Hämmerle, Augsburg, Germany. Bobbin or cop supporting means for warping-frames. No. 1,125,679; Jan. 19; Gaz. vol. 210; p. 954.
- Fessmann, Louis, and G. Hämmerle, Augsburg, Germany. Bobbin frame or reel for warping-machines. No. 1,153,862; Sept. 14; Gaz. vol. 218; p. 569.
- Fest, Albert F., Audubon, Iowa. Wire-support. No. 1,155,716; Oct. 5; Gaz. vol. 219; p. 136.
- Festa, Gaetano, Revere, Mass. Air-motor for fans for railway-cars. No. 1,133,117; Mar. 23; Gaz. vol. 212; p. 1279.
- Feiner, William B., assignor of one-half to L. R. Gilbert, Raleigh, N. C. Collapsible tap. No. 1,160,868; Nov. 16; Gaz. vol. 220; p. 951.
- Fetscher, George F., assignor to Spengler Brothers Company, Chicago, Ill. Changeable sign. (Reissue.) No. 13,896; Apr. 6; Gaz. vol. 213; p. 323.
- Fetzer, Allen H., Galion, Ohio. Compensating transmission-gearing and axle construction. No. 1,128,429; Feb. 16; Gaz. vol. 211; p. 707.
- Fetzer, James D., Columbus, Ohio. Universal joint. No. 1,128,430; Feb. 16; Gaz. vol. 211; p. 708.
- Fetzer, James D., Columbus, Ohio. Universal joint. No. 1,128,431; Feb. 16; Gaz. vol. 211; p. 708.
- Fetzer, James D., Columbus, Ohio. Universal joint. No. 1,128,432; Feb. 16; Gaz. vol. 211; p. 708.
- Fetzer, Robert C., Jr., Savannah, Ga. Bottle-closure. No. 1,147,384; July 20; Gaz. vol. 216; p. 883.
- Feuerbacher, Max E. (See Leslie and Feuerbacher.)
- Feuerlein, Otto, Charlottenburg, and M. von Pirani, Wilmsdorf, Germany, assignors, by mesne assignments, to General Electric Company. Mounting metallic filaments on filament-carriers of incandescent lamps. No. 1,144,114; June 22; Gaz. vol. 215; p. 1160.
- Feuerstein, Carl. (See Feuerstein, George M. and C.)
- Feuerstein, Frank, Williamsville, N. Y. Poultry-feeding device. No. 1,142,687; June 8; Gaz. vol. 215; p. 597.
- Feuerstein, George M. and C., Algona, Wis.; said C. Feuerstein assignor to said George M. Feuerstein. Beet puller, topper, and loader. No. 1,124,406; Jan. 12; Gaz. vol. 210; p. 463.
- Feuerstein, Louis, Sr. (See Miller, John D., assignor.)
- Feuerstein, Solomon B., Chicago, Ill. Printing-press. No. 1,125,995; Jan. 26; Gaz. vol. 210; p. 1098.
- Feuillet, Emile, Boulogne, Seine, assignor to Société Etablissements E. Feuillet, Boulogne-sur-Seine, France. Apparatus for steeping or retting flax, hemp, and the like. No. 1,152,159; Aug. 31; Gaz. vol. 217; p. 1556.
- Feustel, Robert M. (See Little and Feustel.)
- Fewell, Everett B., Madison, Ind. Artificial tooth. No. 1,155,904; Oct. 5; Gaz. vol. 219; p. 202.
- Fey, Edmund E. (See Anderson and Fey.)
- Fey, George W., Seattle, Wash. Trolling-spoon. No. 1,123,717; Jan. 5; Gaz. vol. 210; p. 177.
- Feyer, Justus, Barmen, Germany. Driving mechanism. No. 1,132,174; Mar. 16; Gaz. vol. 212; p. 885.
- Feyrer, Frank, Westhoff, Tex. Combination-penknife. No. 1,127,609; Feb. 9; Gaz. vol. 211; p. 370.
- Feyrot, Frank, et al. (See Meier, John, assignor.)
- Fozzoy, Chester T. (See Chamberlin and Fozzoy.)
- Flala, Joseph, assignor to Standard Pneumatic Action Company, New York, N. Y. Suction-pump. No. 1,161,383; Nov. 23; Gaz. vol. 220; p. 1182.
- Fibro Dress Form Company. (See Sanderson, Jane, assignor.)
- Fichtmueller, Julius A. C., New York, assignor to Diamond Decorative Leaf Company, Stapleton, Staten Island, N. Y. Decorative metallic leaf. No. 1,160,979; Nov. 16; Gaz. vol. 220; p. 951.
- Fickelsson, Frederick H. P., New York, N. Y. Razor. No. 1,125,996; Jan. 26; Gaz. vol. 210; p. 1099.

Alphabetical list of patentees—Continued.

- Flickinger, Presly J., Conneaut, Ohio. Mule or pusher car. No. 1,162,760; Dec. 7; Gaz. vol. 221; p. 10.
- Flickinger, Presly J., Conneaut, assignor to The McMyler Interstate Company, Cleveland, Ohio. Car-haulage plant. No. 1,125,283; Jan. 19; Gaz. vol. 210; p. 813.
- Fleq, Constant, Victoria, British Columbia, Canada. Electric lamp. No. 1,149,033; Aug. 3; Gaz. vol. 217; p. 196.
- Fidjeland, Terje A., deceased, Postvedt, Iveland; J. A. Schwartz, representative, Christianssand S., Norway. Mechanism for attaching sighting-telescopes to firearms. No. 1,144,647; June 29; Gaz. vol. 215; p. 1379.
- Fiebrich, Edward. (See Tibbetts, Raymond F., assignor.)
- Flechter, Frederick, assignor of one-half to O. H. Lucker, Philadelphia, Pa. Lubricator. No. 1,156,768; Oct. 12; Gaz. vol. 219; p. 528.
- Fiedler, Martin, Zeitz, Germany. Siphon for aerated liquids. No. 1,130,158; Mar. 2; Gaz. vol. 212; p. 110.
- Fiego, Alexander J. R., Lynn, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 1,132,322; Mar. 16; Gaz. vol. 212; p. 941.
- Fiego, Alexander J. R., Lynn, Mass., assignor to General Electric Company. Mechanical movement. No. 1,157,933; Oct. 26; Gaz. vol. 219; p. 1029.
- Flebler, Joseph, Potter, Nebr. Scaffold-jack. No. 1,145,300; July 6; Gaz. vol. 216; p. 113.
- Field, Alfred U., Redding, Cal. Cooler-fue and hopper for fume-arresting apparatus. No. 1,146,319; July 13; Gaz. vol. 216; p. 490.
- Field, Allan B., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-wedge. No. 1,150,022; Aug. 17; Gaz. vol. 217; p. 714.
- Field, Berton E., assignor of one-third to W. A. Peterson, Miller, S. D. Gate. No. 1,129,386; Feb. 23; Gaz. vol. 211; p. 1078.
- Field-Brundage Co. (See McMullen, Vincent E., assignor.)
- Field, Charles, 3d, Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Arc-lamp electrode. No. 1,158,997; Nov. 2; Gaz. vol. 220; p. 204.
- Field, Charles H. (See Brown, Alvan B., assignor.)
- Field, Gerald C., and A. H. Albertson, Seattle, Wash. Window-ventilator. No. 1,125,015; Jan. 12; Gaz. vol. 210; p. 682.
- Field, Henry H., Grappenhall, M. Howarth, Latchford, and E. A. Atkins, Liverpool, England. Galvanizing wire, hoops, sheets, and the like. No. 1,133,628; Mar. 30; Gaz. vol. 212; p. 1497.
- Field, Herbert E., and F. C. T. Daniels, Wheeling, W. Va. Strengthening steel, cast-iron, and alloy castings. No. 1,164,487; Dec. 14; Gaz. vol. 221; p. 658.
- Field, Herbert E., and F. C. T. Daniels, Wheeling, W. Va. Alloy of iron. No. 1,166,342; Dec. 28; Gaz. vol. 221; p. 1390.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, New York, N. Y. Selective signaling system. No. 1,125,997; Jan. 26; Gaz. vol. 210; p. 1099.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, New York, N. Y. Selective signaling system. No. 1,127,876; Feb. 9; Gaz. vol. 211; p. 466.
- Field, Robert, Huddersfield, England. Cash-register. No. 1,149,903; Aug. 10; Gaz. vol. 217; p. 611.
- Field, Samuel B., Holbrook, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Folding box or shipping-case. No. 1,126,967; Feb. 2; Gaz. vol. 211; p. 105.
- Field, Samuel B., Holbrook, assignor of one-fourth to Pneumatic Scale Corporation, Limited, and three-fourths to W. H. Doble, Quincy, Mass. Electric welding-machine. No. 1,127,425; Feb. 9; Gaz. vol. 211; p. 306.
- Field, Samuel B., Holbrook, assignor of one-fourth to Pneumatic Scale Corporation, Limited, and three-fourths to W. H. Doble, Quincy, Mass. Folding box. No. 1,162,466; Nov. 30; Gaz. vol. 220; p. 1603.
- Field, William T. (See Exley and Field.)
- Fiedler, Din W. (See Fielder, Howard, assignor.)
- Fielder, Howard, Franklin, assignor of one-half to D. W. Fielder, Springfield, Ohio. Valve. No. 1,124,881; Jan. 12; Gaz. vol. 210; p. 635.
- Fielding, George T., New York, N. Y. Observation apparatus. No. 1,166,343; Dec. 28; Gaz. vol. 221; p. 1390.
- Fielding, Matthew H., Alton, Fla. Contracting dry-kiln truck. No. 1,125,082; Jan. 19; Gaz. vol. 210; p. 740.
- Fielding, Philip H., East Norwalk, and F. E. Lewis, 2d, Saugatuck, Conn.; said Fielding assignor to said Lewis. Vehicle-indicator. No. 1,141,701; June 1; Gaz. vol. 215; p. 218.
- Fielding, Robert, Bolton, England. Threading device for loom-shuttles. No. 1,161,204; Nov. 23; Gaz. vol. 220; p. 1117.
- Fields, Albert F., Alhambra, Cal. Game apparatus. No. 1,139,356; May 11; Gaz. vol. 214; p. 611.
- Fields, Dolor. (See Slater, Horace G., assignor.)
- Flessler, August, Stuttgart, Germany. Uterine applicator. No. 1,129,657; Feb. 23; Gaz. vol. 211; p. 1171.
- Fieux, Jean, Harfleur, France. Gyroscopic transmission apparatus. No. 1,162,593; Nov. 30; Gaz. vol. 220; p. 1644.
- Fifield, Albert F. (See Sullivan and Fifield.)
- Fifield, Albert F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Stitch-forming mechanism. No. 1,147,386; July 20; Gaz. vol. 216; p. 884.
- Fifield, Albert F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,152,498; Sept. 7; Gaz. vol. 218; p. 41.
- Fifield, Albert F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,162,998; Dec. 7; Gaz. vol. 221; p. 92.
- Filbin, James D., assignor to The Lake City Manufacturing and Supply Company, Cleveland, Ohio. Spraying head or nozzle. No. 1,142,410; June 8; Gaz. vol. 215; p. 504.
- Filcher, Frank, Lorain, Ohio. Device for regulating flow of a fluid. No. 1,132,175; Mar. 16; Gaz. vol. 212; p. 886.
- Filer & Stowell Company, The. (See Pelton, George M., assignor.)
- Filer, William H., Grove City, Pa. Molding monolithic structures. No. 1,150,354; Aug. 17; Gaz. vol. 217; p. 832.
- Filer, William H., Grove City, Pa. Monolithic inscription-stone. No. 1,155,140; Sept. 28; Gaz. vol. 218; p. 1070.
- Fill, Ernst, Sr., Philadelphia, Pa. Non-refillable bottle. No. 1,149,509; Aug. 10; Gaz. vol. 217; p. 466.
- Filippietz, Paul, assignor to Mesta Machine Company, Pittsburgh, Pa. Universal coupling for shafts. No. 1,135,510; Apr. 13; Gaz. vol. 213; p. 548.
- Filippi, Giuseppe, Turin, Italy. Lock for umbrellas or the like. No. 1,143,043; June 15; Gaz. vol. 215; p. 762.
- Filitti, Leonard J., Albany, N. Y. Electric train control. No. 1,141,953; June 8; Gaz. vol. 215; p. 340.
- Filkins, Arthur J., Riverside, Ill. Portable locomotive-drafting device. No. 1,165,957; Dec. 28; Gaz. vol. 221; p. 1249.
- Fillus, Harry L., Washington, D. C. Folding stretcher. No. 1,151,932; Aug. 31; Gaz. vol. 217; p. 1477.
- Fillmore, Aden L., Pittsburgh, Pa. Pitch-pipe. No. 1,125,502; Jan. 19; Gaz. vol. 210; p. 890.
- Fillmore, Waldo R., and E. Boillot, Kansas City, Mo. Bed-clothes-clamp. No. 1,142,559; June 8; Gaz. vol. 215; p. 555.
- Fillmore, Waldo R., and E. Boillot, Kansas City, Mo. Compartment-bed. No. 1,144,960; June 29; Gaz. vol. 215; p. 1478.
- Filson, Charles I., Burnham, Pa. Fuel-feeding mechanism for furnaces. No. 1,134,600; Apr. 6; Gaz. vol. 213; p. 188.
- Filterette Company. (See Jones, Clarence R., assignor.)
- Filzer, Christian G., Erie, Pa. Blow-torch. No. 1,135,367; Apr. 13; Gaz. vol. 213; p. 497.
- Filzer, Christian G., Erie, Pa. Torch. No. 1,135,368; Apr. 13; Gaz. vol. 213; p. 498.
- Filzkorkfabrik Gesellschaft mit beschränkter Haftung. (See Petz, Eduard, assignor.)
- Finazzer, Eugen, Pieve-Buchenstein, Austria-Hungary. Fastening device for ladies' hats. No. 1,162,761; Dec. 7; Gaz. vol. 221; p. 10.
- Findraaten, Oscar N. (See Skogstad and Findraaten.)
- Finch, Albert E. (See Kamp and Finch.)
- Finch, Arthur M., Hillsboro, Tex. Cotton-chopper. No. 1,127,220; Feb. 2; Gaz. vol. 211; p. 196.
- Finch, Emory D., Atlanta, N. Y. Automobile-signal. No. 1,164,800; Dec. 21; Gaz. vol. 221; p. 808.
- Finch, Ida M., Chicago, Ill. Abdominal support. No. 1,139,656; May 18; Gaz. vol. 214; p. 755.
- Finch, John S. (See Eames and Finch.)
- Finck, William M., Detroit, Mich. Garment. No. 1,132,768; Mar. 23; Gaz. vol. 212; p. 1151.
- Finckbein, Adolf, Charlottenburg, Germany, assignor to Siemens-Schuckertwerke G. m. b. H. Means for smoothing and ironing the insulating-wrapping of electric conductors. No. 1,155,345; Oct. 5; Gaz. vol. 219; p. 7.
- Finckh, Karl, assignor to Berliner Import- und Export-Gesellschaft, m. b. H., Berlin, Germany. Pin for securing artificial teeth and making the same. No. 1,143,696; June 22; Gaz. vol. 215; p. 1014.
- Findlay, William A. (See Keislar, Mott, assignor.)
- Findley, John P., Crossville, Ala. Cotton-chopper. No. 1,140,144; May 18; Gaz. vol. 214; p. 928.
- Findley, Thomas, and O. G. Rieske, assignors to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Wagon-brake. No. 1,127,982; Feb. 9; Gaz. vol. 211; p. 503.
- Fine, Thomas M., and L. Burnam, Walla Walla, Wash. Clip for harrow-teeth. No. 1,134,832; Apr. 6; Gaz. vol. 213; p. 270.
- Fingado, Reinhard T., Mexico, Mexico. Device for centering trolley-wires. No. 1,140,587; May 25; Gaz. vol. 214; p. 1117.
- Finger, Frederick W., Louisville, Ky. Hose-nozzle support. No. 1,140,145; May 18; Gaz. vol. 214; p. 928.
- Fingerhut, Carl, Chicago, Ill. Frame-joint. No. 1,130,807; Mar. 9; Gaz. vol. 212; p. 371.
- Fingland, John J., Kaslo, British Columbia, Canada. Manufacture of spelter from ferruginous and admixed zinc-blend ores. No. 1,157,375; Oct. 19; Gaz. vol. 219; p. 773.
- Finizio, Thomas D., assignor to Kurz Electrical Company, Inc., New York, N. Y. Lamp-shade. No. 1,149,817; Aug. 10; Gaz. vol. 217; p. 580.
- Fink, Albert, assignor of one-half to A. Laver, Los Angeles, Cal. Refrigerator. No. 1,138,947; May 11; Gaz. vol. 214; p. 468.

Alphabetical list of patentees—Continued.

- Fink, Harry C., Toledo, Ohio. Auxiliary door for safes. No. 1,164,488; Dec. 14; Gaz. vol. 221; p. 659.
- Fink, Israel J., Cleveland, Ohio. Interchangeable tooth. No. 1,163,074; Dec. 7; Gaz. vol. 221; p. 118.
- Fink, Marc W., Middle Brighton, and A. M. Kobiolke, Kew, Victoria, Australia. Bead for pneumatic or other tires. No. 1,158,194; Oct. 26; Gaz. vol. 219; p. 1122.
- Fink, Nathan. (See Simons, Frank W., assignor.)
- Fink, William B., New York, N. Y. Composition of matter for bleaching and cleaning. No. 1,151,257; Aug. 24; Gaz. vol. 217; p. 1200.
- Fink, William T., assignor of one-half to W. Johnston, Carlyle, Ill. Extensible table. No. 1,158,125; Oct. 26; Gaz. vol. 219; p. 1098.
- Finkbeiner, William E., Port Chester, N. Y. Nut-lock. No. 1,161,647; Nov. 23; Gaz. vol. 220; p. 1271.
- Finkelstein, Benatt. (See Rosenbaum and Finkelstein.)
- Finkelstein, Marcus, New York, N. Y. Ice-bag cap. No. 1,127,221; Feb. 2; Gaz. vol. 211; p. 196.
- Finkelstein, Mayer, New York, N. Y. Folding display-rack. No. 1,146,488; July 13; Gaz. vol. 216; p. 552.
- Finkelstein, Morris F., New York, N. Y. Shade-holder. No. 1,163,519; Dec. 7; Gaz. vol. 221; p. 275.
- Finklestein, Max, Springfield, Mass. Roller-skate. No. 1,154,300; Sept. 21; Gaz. vol. 218; p. 753.
- Finlay, Robert P., West Hartlepool, Durham, England. Valve-gear for direct-acting fluid-pressure engines. No. 1,153,613; Sept. 14; Gaz. vol. 218; p. 482.
- Finlayson, Alexander W., Detroit, Mich., assignor to F. S. Stoppel and C. D. Doyle, trustees. Mold for pneumatic tire casings. No. 1,132,250; Mar. 16; Gaz. vol. 212; p. 915.
- Finley, David G., Grand Island, Nebr. Polycycle. No. 1,139,174; May 11; Gaz. vol. 214; p. 550.
- Finley, David G., Grand Island, Nebr. Polycycle. No. 1,139,175; May 11; Gaz. vol. 214; p. 550.
- Finley, George I., Culebra, Canal Zone, assignor to American Cement Tile Mfg. Co., Pittsburgh, Pa. Train-shed construction. No. 1,137,055; Apr. 27; Gaz. vol. 213; p. 1173.
- Finley, John T., Jr., assignor of one-third to J. T. Finley, Sr., and one-third to W. M. Jennings, Atlanta, Ga. Rail-joint. No. 1,150,108; Aug. 17; Gaz. vol. 217; p. 745.
- Finley, John T., Sr., et al. (See Finley, John T., Jr., assignor.)
- Finley, Sam E., Atlanta, Ga. Apparatus for treating roadways. No. 1,124,407; Jan. 12; Gaz. vol. 210; p. 463.
- Finley, Sam E., Atlanta, Ga. Rotary spray-nozzle for road-treating machines. No. 1,161,205; Nov. 23; Gaz. vol. 220; p. 1117.
- Finley, Willella, Greenleaf, Kans. Meat-chopper attachment. No. 1,158,472; Nov. 2; Gaz. vol. 220; p. 21.
- Finn, Charles C., Seattle, Wash. Date-recording attachment for cameras. No. 1,146,755; July 13; Gaz. vol. 216; p. 643.
- Finn, Henry H., Orono, Me. Hydraulic apparatus. No. 1,132,712; Mar. 23; Gaz. vol. 212; p. 1130.
- Finn, Henry H., Orono, Me. Car-stake. No. 1,163,746; Dec. 14; Gaz. vol. 221; p. 460.
- Finn, John. (See Drew, William F., assignor.)
- Finn, William, Bloomfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph-repeater. No. 1,160,097; Nov. 9; Gaz. vol. 220; p. 625.
- Finn, William, Bloomfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Relay and repeater. No. 1,164,273; Dec. 14; Gaz. vol. 221; p. 582.
- Finn, William, Bloomfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph-repeater. No. 1,164,274; Dec. 14; Gaz. vol. 221; p. 582.
- Finnell, Walter S., assignor of one-half to Finola Manufacturing Company, Hannibal, Mo. Brush adjustment for scrubbing-machines. No. 1,139,407; May 11; Gaz. vol. 214; p. 629.
- Finney, Henry E., Chicago, Ill. Tenon-cutter. No. 1,145,237; July 6; Gaz. vol. 216; p. 93.
- Finney, James J., assignor of three-fourths to R. L. Roberts, Chicago, Ill. Thermostatic water-valve. No. 1,153,547; Sept. 14; Gaz. vol. 218; p. 459.
- Finney, William R., et al. (See Buffalow, Drury S., assignor.)
- Finnigan, George P., Wilton-on-James, Va. Induction system of train control. No. 1,159,315; Nov. 2; Gaz. vol. 220; p. 315.
- Finnigan, George P., Richmond, Va. Speed-indicating mechanism. No. 1,165,082; Dec. 21; Gaz. vol. 221; p. 906.
- Finnila, August, Los Angeles, Cal. Bake-oven. No. 1,152,803; Sept. 7; Gaz. vol. 218; p. 155.
- Finola Manufacturing Company. (See Finnell, Walter S., assignor.)
- Fire Detecting Wire Company, The. (See Harsch, Charles A., assignor.)
- Fire Prevention Company. (See Palne, William H., assignor.)
- Firestone Tire & Rubber Company, The. (See Kugler, Herbert W., assignor.)
- Firestone Tire & Rubber Company, The. (See Stevens, William C., assignor.)
- Firm, Joseph L., Berwyn, Ill. Resilient wheel. No. 1,143,180; June 15; Gaz. vol. 215; p. 811.
- Firma Schweiz, Kommissions- und Aufbewahrungs-Haus für Das in- und Ausland Tomasehpolksky & Weidenfeld. (See Allemann, Arnold, assignor.)
- Flirner, Joseph. (See Larscheid, Carlson, and Flirner.)
- First, Henry C. et al. (See Fanning, Charles E., assignor.)
- First Trust and Savings Bank, trustee. (See Campbell, Wilson L., assignor.)
- First Trust and Savings Bank, trustee. (See Erickson, Charles J., assignor.)
- First Trust and Savings Bank, trustee. (See Erickson, John, assignor.)
- First Trust and Savings Bank, trustee. (See Keith, Alexander E., assignor.)
- First Trust and Savings Bank, trustee. (See Keith and Erickson, assignors.)
- First Trust and Savings Bank, trustee. (See Keith and Martin, assignors.)
- First Trust and Savings Bank, trustee. (See Kimball, George E., assignor.)
- First Trust and Savings Bank, trustee. (See Martin, Talbot G., assignor.)
- First Trust and Savings Bank, trustee. (See Martin and Erickson, assignors.)
- First Trust and Savings Bank, trustee. (See Martin and Lubberger, assignors.)
- First Trust and Savings Bank, trustee. (See Setter, Michael, assignor.)
- First Trust and Savings Bank, trustee. (See Willis, Bernard D., assignor.)
- Firth, John, Jr. (See Brown, Walter J., assignor.)
- Firth and Sons, Thos. (See Strange, Harry B., assignor.)
- Firth, William. (See Clonette, Nelson, assignor.)
- Firth, William. (See Smith, Joseph J., assignor.)
- Fischbach, Walter M., Milwaukee, Wis. Stereopticon. No. 1,142,158; June 8; Gaz. vol. 215; p. 413.
- Fischer, Adalbert W., assignor to Schutte and Koerting Company, Philadelphia, Pa. Oil-burner. No. 1,151,258; Aug. 24; Gaz. vol. 217; p. 1201.
- Fischer, Adalbert W., assignor to Schutte and Koerting Company, Philadelphia, Pa. Jet apparatus. No. 1,151,259; Aug. 24; Gaz. vol. 217; p. 1201.
- Fischer, Adalbert K., assignor to Schutte & Koerting Company, Philadelphia, Pa. Crematory. No. 1,156,398; Oct. 12; Gaz. vol. 219; p. 399.
- Fischer, Albert C., Lincoln, Nebr. Seam-cleat for sheet-roofing. No. 1,150,261; Aug. 17; Gaz. vol. 217; p. 800.
- Fischer, Arthur I., assignor to Glauber Brass Manufacturing Company, Cleveland, Ohio. Drinking fountain or faucet. No. 1,140,507; May 25; Gaz. vol. 214; p. 1090.
- Fischer, Charles H., Cincinnati, Ohio. Electric lamp. No. 1,140,893; May 25; Gaz. vol. 214; p. 1223.
- Fischer, Charles H., Cincinnati, Ohio. Electric lamp. No. 1,140,894; May 25; Gaz. vol. 214; p. 1223.
- Fischer, Frank F., and C. M. Kaletsky, New York, N. Y., assignors to Kalfen Company, Inc. Dental-engine tool-guard. No. 1,134,833; Apr. 6; Gaz. vol. 213; p. 271.
- Fischer, Frank J. (See Fischer, Joseph B., assignor.)
- Fischer, Frank L., South Superior, Wis. Bottle and closure means therefor. No. 1,129,283; Feb. 23; Gaz. vol. 211; p. 1041.
- Fischer, Franz, Charlottenburg, assignor to Henkel & Cie., Dusseldorf, Germany. Making peroxid of hydrogen. No. 1,128,966; Feb. 16; Gaz. vol. 211; p. 896.
- Fischer, Fredrik, New York, N. Y. Valve-lifter. No. 1,127,610; Feb. 9; Gaz. vol. 211; p. 370.
- Fischer, Hermann, New York, N. Y. Feeding mechanism for slicing-machines. No. 1,157,520; Oct. 19; Gaz. vol. 219; p. 824.
- Fischer, Jacob, Roseville, N. J., assignor of one-half to D. Brandenstein, New York, N. Y. Sewing-machine power-transmitter. No. 1,156,354; Oct. 12; Gaz. vol. 219; p. 381.
- Fischer, Jacob, Roseville, N. J., and D. Brandenstein, New York, N. Y. Sewing-machine power-transmitter. No. 1,156,137; Oct. 12; Gaz. vol. 219; p. 309.
- Fischer, John A., Memphis, Tenn. Lock. No. 1,154,499; Sept. 21; Gaz. vol. 218; p. 820.
- Fischer, Joseph B., assignor of one-half to F. J. Fischer, Chicago, Ill. Weedless fishing-hook. No. 1,124,719; Jan. 12; Gaz. vol. 210; p. 577.
- Fischer-Leif Company. (See Pfeiffer, Lee N., assignor.)
- Fischer, Lewis G. (See Cuenot and Fischer.)
- Fischer, Louis, Philadelphia, Pa., assignor to R. H. Wright, Durham, N. C. Paper-feeder. No. 1,148,373; July 27; Gaz. vol. 216; p. 1261.
- Fischer, Louis E., St. Louis, Mo. Monorail railway system. No. 1,125,284; Jan. 19; Gaz. vol. 210; p. 814.
- Fischer, Martin, Zurich, Switzerland, assignor to Fischer Motor Corporation. Valve for motors. No. 1,129,461; Feb. 23; Gaz. vol. 211; p. 1104.
- Fischer, Martin, Zurich, Switzerland, assignor to Motor and Gear Improvement Company. Engine. No. 1,164,610; Dec. 14; Gaz. vol. 221; p. 700.
- Fischer, Moritz B., Chicago, Ill. Emergency-brake. No. 1,123,718; Jan. 5; Gaz. vol. 210; p. 177.
- Fischer Motor Corporation. (See Fischer, Martin, assignor.)

Alphabetical list of patentees—Continued.

- Fischer, Philip A., New York, N. Y. Thumb-tack. No. 1,142,688; June 8; Gaz. vol. 215; p. 598.
- Fischer, Richard, Frankfurt-on-the-Main-Rödelheim, assignor to Mafam Motor-Apparate G. m. b. H., Frankfurt-on-the-Main, Germany. Magneto apparatus. No. 1,131,921; Mar. 16; Gaz. vol. 212; p. 794.
- Fischer, Robert E. (See Wescher and Fischer.)
- Fischer, Theodore J., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Tachometer-magnet and mount for the same. No. 1,155,346; Oct. 5; Gaz. vol. 219; p. 8.
- Fischer, William, assignor of one-half to L. Blumenstein, New Richmond, Ohio. Cleaning mechanism for circular-knitting machines. No. 1,156,838; Oct. 12; Gaz. vol. 219; p. 552.
- Fischer, William F. (See Simmons, Oliver G., assignor.)
- Fischer, Zacharius O., Moccasin, Mont. Railway-spike. No. 1,133,947; Mar. 30; Gaz. vol. 212; p. 1609.
- Fischhoff, William M., assignor to Pullman Couch Company, Chicago, Ill. Sofa-bed. No. 1,140,368; May 25; Gaz. vol. 214; p. 1038.
- Fischrupp, George, Chicago, Ill. Reclining-chair. No. 1,166,198; Dec. 28; Gaz. vol. 221; p. 1338.
- Fiscus, William S., Steubenville, Ohio. Electric-generator-operating device. No. 1,156,594; Oct. 12; Gaz. vol. 219; p. 467.
- Fiscone, Louis, assignor of one-half to C. Goldman, New York, N. Y. Dispensing device. No. 1,139,758; May 18; Gaz. vol. 214; p. 789.
- Fish, Alanson L., Flushing, N. Y. Automatic timing device. No. 1,146,320; July 13; Gaz. vol. 216; p. 490.
- Fish Automatic Ship's Log Co. (See Fish, Edwin A., assignor.)
- Fish, Benjamin. (See Frantz, Hiram A., assignor.)
- Fish, Edwin A., New London, Conn. assignor, by mesne assignments, to Fish Automatic Ship's Log Co. Ship's Indicator. No. 1,145,884; July 13; Gaz. vol. 216; p. 337.
- Fish, Jesse E. (See Stoik and Fish.)
- Fish, Squire J., Jackson, Mich. Egg-testing machine. No. 1,155,905; Oct. 5; Gaz. vol. 219; p. 202.
- Fishburne, Edward W., assignor of three-sixths to A. Meyer, two-sixths to T. B. Leonard, and one-sixth to J. Askin, Richmond, Va. Shade-hanger. No. 1,143,263; June 15; Gaz. vol. 215; p. 840.
- Fisbel, Homer R., Raleigh, N. C. Collar. No. 1,128,433; Feb. 16; Gaz. vol. 211; p. 709.
- Fisher, Albert L. (See Fisher, Henry W. and A. L.)
- Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Clothes-wringer. No. 1,136,221; Apr. 20; Gaz. vol. 213; p. 839.
- Fisher, Artemas W. (See Snell, Harry B., assignor.)
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 1,157,303; Oct. 19; Gaz. vol. 219; p. 747.
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 1,159,834; Nov. 9; Gaz. vol. 220; p. 534.
- Fisher, Charles C., *et al.* (See Hohmann, Adolph, assignor.)
- Fisher, Charles C., Ironton, Ohio. Weather-strip. No. 1,132,823; Mar. 16; Gaz. vol. 212; p. 941.
- Fisher, Charles V. (See Benson, Ernest J., assignor.)
- Fisher Closed Body Co. (See Allmand, John T., assignor.)
- Fisher, Dudley T. (See Sessions and Fisher.)
- Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Gathering-locomotive with haulage mechanism. No. 1,123,267; Jan. 5; Gaz. vol. 210; p. 22.
- Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electric locomotive with cable-reeling mechanism. No. 1,124,003; Jan. 5; Gaz. vol. 210; p. 273.
- Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Locomotive. No. 1,132,838; Mar. 23; Gaz. vol. 212; p. 1178.
- Fisher, Dudley T., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Cable-winding mechanism for locomotives. No. 1,132,839; Mar. 23; Gaz. vol. 212; p. 1178.
- Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electric switch. No. 1,142,318; June 8; Gaz. vol. 215; p. 469.
- Fisher, Elmer, Detroit, Mich. Sink-strainer. No. 1,160,869; Nov. 16; Gaz. vol. 220; p. 952.
- Fisher, Emanuel, Providence, R. I. Valve. No. 1,157,641; Oct. 19; Gaz. vol. 219; p. 861.
- Fisher, Emanuel, assignor to N. Fisher, Providence, R. I. Valve. No. 1,157,642; Oct. 19; Gaz. vol. 219; p. 862.
- Fisher, Ernest S., Portland, Oreg. Trousers-stretching device. No. 1,157,521; Oct. 19; Gaz. vol. 219; p. 824.
- Fisher, Frank, Waynesville, Ill. Fence. No. 1,146,857; July 20; Gaz. vol. 216; p. 698.
- Fish, Frank B., Springfield, Ohio. Street-sweeping machine. No. 1,159,202; Nov. 2; Gaz. vol. 220; p. 276.
- Fisher, Frank E., Detroit, Mich. Starter for internal-combustion engines. No. 1,159,752; Nov. 9; Gaz. vol. 220; p. 503.
- Fisher, Frank E., Detroit, Mich. Clutch. No. 1,159,753; Nov. 9; Gaz. vol. 220; p. 504.
- Fisher, Frank R., Springfield, Ill. Cap-remover and cover. No. 1,154,751; Sept. 28; Gaz. vol. 218; p. 936.
- Fisher, Frederick A., Provincetown, assignor of one-fourth to W. L. Conwell, Jr., Boston, Mass. Emergency-valve. No. 1,131,605; Mar. 9; Gaz. vol. 212; p. 645.
- Fisher, Fredrick M. (See Davis, Melrose, and Fisher.)
- Fisher, George C., Chicago, Ill. Stirrup attachment for lever-operated devices. No. 1,146,146; July 13; Gaz. vol. 216; p. 430.
- Fisher, George E., Cleveland, Ohio. Fuse-cartridge. No. 1,147,494; July 20; Gaz. vol. 216; p. 922.
- Fisher, George W., assignor of one-half to H. N. Talkin, Baltimore, Md. Shutter-lock. No. 1,152,720; Sept. 7; Gaz. vol. 218; p. 125.
- Fisher, George W. and F. Hoyland, Jackson, Mich. Switch and signal apparatus. No. 1,124,408; Jan. 12; Gaz. vol. 210; p. 464.
- Fisher Governor Company. (See Beebe, George H., assignor.)
- Fisher, Henry L., Chazy, N. Y. Portable camp-bed. No. 1,143,374; June 15; Gaz. vol. 215; p. 880.
- Fisher, Henry L., assignor to Landis Machine Company, Waynesboro, Pa. Thread-cutting device. No. 1,134,083; Mar. 30; Gaz. vol. 212; p. 1654.
- Fisher, Henry L., assignor to Landis Machine Company, Waynesboro, Pa. Hand-operated threading-die. No. 1,142,411; June 8; Gaz. vol. 215; p. 504.
- Fisher, Henry L., assignor to Landis Machine Company, Waynesboro, Pa. Die-head. No. 1,157,210; Oct. 19; Gaz. vol. 219; p. 714.
- Fisher, Henry W. and A. L., Bridgeport, Conn. Grease-gun. No. 1,165,083; Dec. 21; Gaz. vol. 221; p. 906.
- Fisher, Herbert E., San Francisco, Cal. Wave-motor. No. 1,156,355; Oct. 12; Gaz. vol. 219; p. 382.
- Fisher, Horace, Letchworth, assignor to W. E. Garforth, Pontefract, Yorkshire, England. Film-holder for cinematograph and like machines. No. 1,126,436; Jan. 26; Gaz. vol. 210; p. 1257.
- Fisher, Horace, Letchworth, assignor to W. E. Garforth, Pontefract, Yorkshire, England. Controlling the feed of cinematograph-films. No. 1,126,437; Jan. 26; Gaz. vol. 210; p. 1258.
- Fisher, Horace, Letchworth, assignor to W. E. Garforth, Pontefract, Yorkshire, England. Apparatus for intermittently feeding cinematograph and similar films. No. 1,128,861; Feb. 16; Gaz. vol. 211; p. 856.
- Fisher, Horace, Letchworth, assignor to W. E. Garforth, Pontefract, England. Film-camera. No. 1,129,564; Feb. 23; Gaz. vol. 211; p. 1140.
- Fisher, Ira S., Keller, Va., assignor of one-half to W. W. Mundy, Molino, Mo. Railway tie and ballast. No. 1,141,049; May 25; Gaz. vol. 214; p. 1277.
- Fisher, Irving, assignor to Index Visible, Incorporated, New Haven, Conn. Index or file. No. 1,145,411; July 6; Gaz. vol. 216; p. 152.
- Fisher, James E., Bardwell, Ky. Mail-box. No. 1,164,935; Dec. 21; Gaz. vol. 221; p. 855.
- Fisher, James J., Townsend, Mont. Automobile-puller. No. 1,147,495; July 20; Gaz. vol. 216; p. 922.
- Fisher, James P., McKendree, W. Va. Self-waiting table and cupboard. No. 1,160,500; Nov. 16; Gaz. vol. 220; p. 820.
- Fisher, James V., Salem, Ohio. Harness-hook. No. 1,163,649; Dec. 14; Gaz. vol. 221; p. 364.
- Fisher, James W. (See Blostick, Thomas J., assignor.)
- Fisher, John F. (See Kincade, Elmer C., assignor.)
- Fisher, Louis K., *et al.* (See Cartwright, Ernest O., assignor.)
- Fisher, Nellie. (See Fisher, Emanuel, assignor.)
- Fisher, Oscar, Port Angeles, Wash. Feed-water heater. No. 1,134,324; Apr. 6; Gaz. vol. 213; p. 88.
- Fisher, Thaddeus C., Sr., Plymouth, assignor of one-half to G. W. Briggs, Pottsville, Pa. Decorative support. No. 1,134,834; Apr. 6; Gaz. vol. 213; p. 271.
- Fisher Thread-Drawing Machine Company. (See Swain, Charles R., assignor.)
- Fisher, William E., Miller, Nebr. Delivery apparatus for mail or the like. No. 1,130,721; Mar. 9; Gaz. vol. 212; p. 341.
- Fisher, William E., Susquehanna, Pa. Drain-cock. No. 1,161,648; Nov. 23; Gaz. vol. 220; p. 1271.
- Fisher, William H. (See Donham and Fisher.)
- Fisher, Zebulon D., *et al.* (See Saint, Lee G., assignor.)
- Fisk, Clark F., Allentown, assignor of one-half to R. C. Dunham, Trenton, N. J. Pneumatic tube. No. 1,135,273; Apr. 13; Gaz. vol. 213; p. 465.
- Fisk Rubber Company. (See Cole, John C., assignor.)
- Fisk Rubber Company, The. (See Lewis, George H., assignor.)
- Fiske, G. Walter, *et al.* (See Geiger, Charles E., assignor.)
- Fitch, Wilbur R., Belmont, Mass. Drier. No. 1,141,185; June 22; Gaz. vol. 215; p. 1185.
- Fitchburg Bobbin Cleaning Machine Co. (See Chandler, Daniel L., assignor.)
- Fitchburg Machine Works. (See Waite, Lyman M., assignor.)
- Fittall, William J., and W. E. Tayman, Washington, D. C. Cuspidor. No. 1,147,156; July 20; Gaz. vol. 216; p. 803.

Alphabetical list of patentees—Continued.

- Fitton, John R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Automatic weft-replenishing loom. No. 1,146,147; July 13; Gaz. vol. 216; p. 431.
- Fitts, Dudley T., Haverhill, Mass. Paper-feed mechanism. No. 1,128,434; Feb. 16; Gaz. vol. 211; p. 709.
- Fitts, Edwin, assignor to Detroit Stoker Company, Detroit, Mich. Furnace. No. 1,158,998; Nov. 2; Gaz. vol. 220; p. 204.
- Fitts, James L., Merchantville, and J. F. Hale, Woodbury, N. J., assignors to Warren Webster & Company. Combined vacuum heating and cleaning system. No. 1,162,151; Nov. 30; Gaz. vol. 220; p. 1494.
- Fitz, Ervin M. (See Lanphier and Fitz.)
- Fitz Gerald, John M., assignor to The Railroad Supply Co., Chicago, Ill. Battery-well. No. 1,130,808; Mar. 9; Gaz. vol. 212; p. 371.
- Fitz Gerald, Walter H., assignor of four-tenths to L. K. Tilt, Brooklyn, N. Y. Broom-protector. No. 1,163,747; Dec. 14; Gaz. vol. 221; p. 401.
- Fitz Gibbon, Frank, East Orange, N. J., and C. Fitzpatrick, Boston, Mass. Fastener. No. 1,162,467; Nov. 30; Gaz. vol. 220; p. 1603.
- Fitz-Hugh, Carter H., *et al.* (See Greer, Howard, Jr., assignor.)
- Fitzgerald, Edward. (See O'Conner and Fitzgerald.)
- Fitzgerald, Edward, Chicago, Ill. Truck-coupling. No. 1,139,657; May 18; Gaz. vol. 214; p. 755.
- Fitzgerald, Edward E., Minden, La., assignor to Muskegon Boiler Works, Muskegon, Mich. Refuse-burner. No. 1,139,658; May 18; Gaz. vol. 214; p. 755.
- Fitzgerald, Frank M., and R. S. Hatch, Chicago, Ill. Elevator-control mechanism. No. 1,149,746; Aug. 10; Gaz. vol. 217; p. 554.
- Fitzgerald, James J., Pittsburgh, Pa. Game apparatus. No. 1,161,649; Nov. 23; Gaz. vol. 220; p. 1272.
- Fitzgerald, Jeremiah C., Kilbourn, assignor to Felker Brothers Manufacturing Company, Marshfield, Wis. Cattle-stanchion. No. 1,161,802; Nov. 23; Gaz. vol. 220; p. 1325.
- Fitzgerald, John E., Boston, Mass. Tag-fastener. No. 1,158,912; Nov. 2; Gaz. vol. 220; p. 176.
- Fitzgerald, John L., Boston, Mass. Low-water alarm for steam-boilers. No. 1,130,385; Mar. 2; Gaz. vol. 212; p. 189.
- Fitzgerald, Joseph P., *et al.* (See Hackett, Harry C., assignor.)
- Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)
- Fitzgerald, Maurice F. and P. J., Torrington, Conn. Signal-horn. No. 1,125,083; Jan. 19; Gaz. vol. 210; p. 741.
- Fitzerald, Michael, Medina, N. Y. Window-fastener. No. 1,142,412; June 8; Gaz. vol. 215; p. 504.
- Fitzerald, Patrick J. (See Fitzgerald, Maurice F. and P. J.)
- Fitzerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Battery-connector. No. 1,148,224; July 27; Gaz. vol. 216; p. 1206.
- Fitzgerald, William, Bridgeport, Conn. Puzzle. No. 1,133,546; Mar. 30; Gaz. vol. 212; p. 1468.
- Fitzgerald, William H. J., Braintree, assignor to E. P. Brown, Newton, Mass. Wheel-tire. No. 1,152,160; Aug. 31; Gaz. vol. 217; p. 1557.
- Fitzpatrick, Clarence. (See Fitz Gibbon and Fitzpatrick.)
- Fitzpatrick, Edward D., Marinette, Wis. Adjustable sheet-metal door. No. 1,148,304; July 27; Gaz. vol. 216; p. 1234.
- Fitzpatrick, George J., Chicago, Ill. Can-opener. No. 1,159,917; Nov. 9; Gaz. vol. 220; p. 564.
- Fitzpatrick, George M., assignor of one-half to J. J. Tully, Milford, Mass. Steaming device for steaming the tips or boxes and vamps of boots and shoes. No. 1,132,518; Mar. 16; Gaz. vol. 212; p. 1012.
- Fitzpatrick, Kirby, Oklahoma, Okla. Automatic gun. No. 1,161,384; Nov. 23; Gaz. vol. 220; p. 1182.
- Fitzpatrick, Kirby, Oklahoma, Okla. Voting-machine. No. 1,162,853; Dec. 7; Gaz. vol. 221; p. 42.
- Fitzsimmons, George P., Newark, N. J. Envelop. No. 1,128,862; Feb. 16; Gaz. vol. 211; p. 857.
- Fitzsimmons, George P., Newark, N. J. Envelop. No. 1,148,671; Aug. 3; Gaz. vol. 217; p. 68.
- Fitzsimmons, Thomas F., Brooklyn, N. Y. Manufacture of carburized producer-gas. No. 1,164,081; Dec. 14; Gaz. vol. 221; p. 518.
- Fivey, Robert E., Chicago, Ill. Flush-valve. No. 1,132,570; Mar. 23; Gaz. vol. 212; p. 1078.
- Fix, Arthur J., Buffalo, N. Y. Machine for sharpening razor and other blades. No. 1,144,467; June 29; Gaz. vol. 215; p. 1311.
- Fjaril, John O., Berwick, N. D. Gang-plow. No. 1,124,004; Jan. 5; Gaz. vol. 210; p. 274.
- Fjaril, John O., Berwick, N. D., assignor to J. B. Bartholomew, Peoria, Ill. Gang-plow. (Reissue.) No. 14,017; Nov. 23; Gaz. vol. 220; p. 1337.
- Fjellman, Bengt W., Gottenborg, Sweden. Ball-bearing. No. 1,143,375; June 15; Gaz. vol. 215; p. 880.
- Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Thrust ball-bearing. No. 1,144,115; June 22; Gaz. vol. 215; p. 1161.
- Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Automatic centering-spindle. No. 1,163,990; Dec. 14; Gaz. vol. 221; p. 484.
- Fjorkenstad, Bernard O., Fingal, S. D. Photographic-printing machine. No. 1,125,680; Jan. 19; Gaz. vol. 210; p. 954.
- Flachslaender, Joseph. (See Gräler, Buff, and Flachslaender.)
- Flachslaender, Joseph, K. P. Gräler, and M. Buff, Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Sulfur colors. No. 1,132,922; Mar. 23; Gaz. vol. 212; p. 1207.
- Flack, Fred E., Urso, Ill. Brickmaking-machine. No. 1,149,747; Aug. 10; Gaz. vol. 217; p. 554.
- Flagge, Phillip F., Milwaukee, assignor to Milwaukee Corrugating Company, Greenfield, Wis. Elbow-machine. No. 1,161,852; Nov. 30; Gaz. vol. 220; p. 1389.
- Flaherty, James F., and C. Gerlach, assignors, by mesne assignments, to Carey & Co., Philadelphia, Pa. Supplemental cover for boxed goods. No. 1,144,326; June 22; Gaz. vol. 215; p. 1234.
- Flaherty, John F., assignor to The Timken Roller Bearing Company, Canton, Ohio. Gaging machine. No. 1,133,273; Mar. 30; Gaz. vol. 212; p. 1370.
- Flaherty, John J., New York, N. Y. Measuring device. No. 1,154,108; Sept. 21; Gaz. vol. 218; p. 688.
- Flaherty, Mrs. John T., administratrix. (See Siddons, Enoch F.)
- Flake, Harley E., Atalissa, Iowa. Line-holder. No. 1,146,240; July 13; Gaz. vol. 216; p. 463.
- Flakes A/S. (See Blichfeldt, Søren H., assignor.)
- Flammang, John, assignor to Inland Machine Works, St. Louis, Mo. Spiral piston-ring. No. 1,165,084; Dec. 21; Gaz. vol. 221; p. 907.
- Flammang, John, assignor to Inland Machine Works, St. Louis, Mo. Piston-ring. No. 1,165,085; Dec. 21; Gaz. vol. 221; p. 907.
- Flanagan, Charles E., Wheeling, W. Va. Distance-measuring device. No. 1,140,895; May 25; Gaz. vol. 214; p. 1224.
- Flanagan, Denis, Altham, near Accrington, assignor of one-half to C. Turner, Irlam, England. Starting-gearing for internal-combustion engines. No. 1,145,475; July 6; Gaz. vol. 216; p. 176.
- Flanagan, Edward, Philadelphia, Pa. Smoke-house and fuel-economizer. No. 1,133,118; Mar. 23; Gaz. vol. 212; p. 1280.
- Flanagan, Elver C., Detroit, Mich. Horseshoe-calk. No. 1,137,262; Apr. 27; Gaz. vol. 213; p. 1250.
- Flanagan, Thomas J., assignor of one-half to N. S. Sibert, Neodesha, Kans. Explosive-engine. No. 1,143,526; June 15; Gaz. vol. 215; p. 930.
- Flanders, Albert F., assignor to A. F. Flanders Manufacturing Company, Buffalo, N. Y. Display-rack. No. 1,150,109; Aug. 17; Gaz. vol. 217; p. 745.
- Flanders, Warren B., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Low-pressure turbine. No. 1,158,999; Nov. 2; Gaz. vol. 220; p. 204.
- Flanigan, John J., assignor to Duplicator Manufacturing Company, Chicago, Ill. Multiple-copying machine. No. 1,141,702; June 1; Gaz. vol. 215; p. 218.
- Flannelly, Joseph J., Scranton, Pa. Sprocket-wheel. No. 1,162,046; Nov. 30; Gaz. vol. 220; p. 1457.
- Flannery Bolt Company. (See Brooks, Dodds, and Kitzinger, assignors.)
- Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
- Flannery Bolt Company. (See Stafford, Benjamin E. D., assignor.)
- Flannery, Matthew J., Matteson, Ill. Means for operating and locking sliding doors. No. 1,151,260; Aug. 24; Gaz. vol. 217; p. 1201.
- Flannery, William C., Washington, D. C. Fastener for concrete sewer constructions. No. 1,155,411; Oct. 5; Gaz. vol. 219; p. 30.
- Flannigan, Thomas A., Philadelphia, Pa. Combined shoe and legging. No. 1,154,109; Sept. 21; Gaz. vol. 218; p. 688.
- Flatau, Louis S., St. Louis, Mo. Seal. No. 1,137,391; Apr. 27; Gaz. vol. 213; p. 1296.
- Flatau, Louis S., St. Louis, Mo. Seal. No. 1,137,392; Apr. 27; Gaz. vol. 213; p. 1297.
- Flatau, Louis S., St. Louis, Mo. Turbine. No. 1,159,754; Nov. 9; Gaz. vol. 220; p. 504.
- Flatau, Louis S., St. Louis, Mo. Cooking utensil. No. 1,162,762; Dec. 7; Gaz. vol. 221; p. 10.
- Flather, Mark, Nashua, N. H. Extension-table. No. 1,159,000; Nov. 2; Gaz. vol. 220; p. 205.
- Flather, Mark, Nashua, N. H. Table. No. 1,159,001; Nov. 2; Gaz. vol. 220; p. 205.
- Flatley, John H., Henderson county, near Little York, Ill. Hog-trap. No. 1,135,004; Apr. 13; Gaz. vol. 213; p. 374.
- Flatow, Emil, Brooklyn, N. Y. Time-controlled apparatus. No. 1,127,750; Feb. 9; Gaz. vol. 211; p. 420.
- Flaven-Micalet, Antoine, Allevard, France. Tool-handle. No. 1,124,779; Jan. 12; Gaz. vol. 210; p. 598.
- Fleck, Charles, West Hoboken, and G. R. Magee, North Bergen, N. J. Emergency stop-valve. No. 1,125,503; Jan. 19; Gaz. vol. 210; p. 890.

Alphabetical list of patentees—Continued.

- Fleck, Charles H., Jr. (See Fleck, Henry A. and C. H., Jr.)
 Fleck, Henry A. and C. H., Jr., Philadelphia, Pa. Street and station indicator. No. 1,159,484; Nov. 9; Gaz. vol. 220; p. 407.
 Fleck, Robert, Cardowan, near Stepps, Scotland. Adjustable spanner. No. 1,158,913; Nov. 2; Gaz. vol. 220; p. 176.
 Fleckenstein, Hugo H., Shobonier, Ill. Adjustable sand-shield for vehicles. No. 1,165,584; Dec. 28; Gaz. vol. 221; p. 1119.
 Flechearty, Edward L., Bay City, Tex. Plow. No. 1,129,971; Mar. 2; Gaz. vol. 212; p. 46.
 Fleet, Arthur H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,130,969; Mar. 9; Gaz. vol. 212; p. 426.
 Flegel, Benjamin F., Racine, Wis., assignor to G. W. Up-ton, Warren, Ohio. Fishing-reel. No. 1,151,349; Aug. 24; Gaz. vol. 217; p. 1230.
 Flegel, Harrison D., assignor to E. J. Schowalter, Racine, Wis. Spring-hinge. No. 1,135,274; Apr. 13; Gaz. vol. 213; p. 465.
 Fleish, Oscar, New York, N. Y. Uterus-supporter. No. 1,164,275; Dec. 14; Gaz. vol. 221; p. 583.
 Fleischer, Morris, and A. C. O. Rock, New York, N. Y. Watch-protector. No. 1,144,830; June 29; Gaz. vol. 215; p. 1435.
 Fleischmann, Lionel, and A. Elfes, Berlin, Germany, assignors to General Electric Company. Oil-switch. No. 1,137,309; Apr. 27; Gaz. vol. 213; p. 1267.
 Fleming, Allison H., Fairmont, W. Va. Razor-blade holder. No. 1,147,226; July 20; Gaz. vol. 216; p. 828.
 Fleming, Clarence C., Amityville, assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Display-rack. No. 1,125,681; Jan. 19; Gaz. vol. 210; p. 955.
 Fleming, Clarence C., Amityville, assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Crayon-holder. No. 1,151,933; Aug. 31; Gaz. vol. 217; p. 1477.
 Fleming, Clifford A., Huntsville, Mo. Hay-stacker. No. 1,135,369; Apr. 13; Gaz. vol. 213; p. 498.
 Fleming, Clifford A., Huntsville, Mo. Hay-rake. No. 1,165,863; Dec. 28; Gaz. vol. 221; p. 1217.
 Fleming, David J., Nashville, Tenn. Non-refillable bottle and cutter. No. 1,152,015; Aug. 31; Gaz. vol. 217; p. 1506.
 Fleming, Eugene A., South Braintree, assignor of one-half to B. T. Martin, Chelsea, Mass. Making shoes. No. 1,150,181; Aug. 17; Gaz. vol. 217; p. 772.
 Fleming, Eugene A., South Braintree, assignor of one-half to B. T. Martin, Chelsea, Mass. Shoe. No. 1,150,182; Aug. 17; Gaz. vol. 217; p. 772.
 Fleming, Frank, Sacramento, Cal. Lubricator. No. 1,129,187; Feb. 23; Gaz. vol. 211; p. 1007.
 Fleming, Frank, Sacramento, Cal. Piping system. No. 1,160,703; Nov. 16; Gaz. vol. 220; p. 895.
 Fleming, George W., Woodhaven, N. Y. Milling attachment for lathes. No. 1,125,285; Jan. 19; Gaz. vol. 210; p. 814.
 Fleming, Guy C. (See Criswell, Raleigh C., assignor.)
 Fleming, J. R., et al. (See Sheridan, Lawrence J., assignor.)
 Fleming, James A., Globe, Ariz. Device for treating ores. No. 1,150,669; Aug. 17; Gaz. vol. 217; p. 941.
 Fleming, James R., et al. (See Pero, John T., assignor.)
 Fleming, James R., Scranton, Pa. Axle-box. (Reissue.) No. 13,976; Sept. 7; Gaz. vol. 218; p. 288.
 Fleming, Ray E., Mexico, Mo. Collapsible box. No. 1,124,720; Jan. 12; Gaz. vol. 210; p. 577.
 Fleming, Richard, Indianapolis, Ind., and C. A. R. Halvorson, Jr., Saugus, Mass., assignors to General Electric Company. Arc-lamp. No. 1,136,593; Apr. 20; Gaz. vol. 213; p. 972.
 Fleming, Thomas V., assignor, by mesne assignments, of one-half to J. N. Moon, Swifton, Ark. Wire-stretcher. No. 1,162,999; Dec. 7; Gaz. vol. 221; p. 93.
 Fleming, Vivian M., et al. (See Beatty, Wallace A., assignor.)
 Fleming, William B., Philadelphia, Pa. Automatic organ. No. 1,146,321; July 13; Gaz. vol. 216; p. 490.
 Fleming, Paul, Hamburg, Germany. Disinfectant. No. 1,162,152; Nov. 30; Gaz. vol. 220; p. 1495.
 Flentje, Ernst, Cambridge, Mass. Hanger for shock-absorbers. No. 1,137,598; Apr. 27; Gaz. vol. 213; p. 1366.
 Flesher, Andrew, Taylorville, Ill. Portable earth-boring machine. No. 1,139,176; May 11; Gaz. vol. 214; p. 551.
 Flesher, George, Cleveland, Ohio. Egg-carrier. No. 1,134,445; Apr. 6; Gaz. vol. 213; p. 132.
 Fletcher, Benjamin, Toronto, Ontario, Canada. Paper straw. No. 1,133,717; Mar. 30; Gaz. vol. 212; p. 1531.
 Fletcher, Edward F. (See Bemis, Gilbert C., assignor.)
 Fletcher, Elmer. (See McArthur and Fletcher.)
 Fletcher, Ernest E., Chicago, Ill. Studding for plaster-boards and the like. No. 1,130,722; Mar. 9; Gaz. vol. 212; p. 342.
 Fletcher, Ira B., Manchester, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon heels. No. 1,132,080; Mar. 16; Gaz. vol. 212; p. 851.
 Fletcher, Joseph C., assignor to The Nye Tool and Machine Works, Chicago, Ill. Die-stock. No. 1,137,004; Apr. 27; Gaz. vol. 213; p. 1155.
 Fletcher, Sarah A., Chicago, Ill. Sad-iron stand. No. 1,140,146; May 18; Gaz. vol. 214; p. 928.
 Fletcher, Thomas N., Hamilton, New Zealand. Pulsating means for use in milking machinery. No. 1,162,594; Nov. 30; Gaz. vol. 220; p. 1645.
 Fletcher, William E., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Retort-furnace. No. 1,156,595; Oct. 12; Gaz. vol. 219; p. 467.
 Flexible Wooden-Sole Shoe Company. (See Ricke, George H., assignor.)
 Flexner, Gustav, et al. (See Smith, Hugh A., assignor.)
 Flexner, Jefferson E., and E. O'Toole, Gary, W. Va. Mining-machine. No. 1,143,897; June 22; Gaz. vol. 215; p. 1082.
 Flick, Frederick A., New York, N. Y. Etching apparatus. No. 1,133,547; Mar. 30; Gaz. vol. 212; p. 1468.
 Flick, Henry. (See Butcher and Flick.)
 Flick, Henry E., Jackson, and L. W. Long, Detroit, Mich. Artillery-wheel. No. 1,155,906; Oct. 5; Gaz. vol. 219; p. 202.
 Flick, Warren J. (See Huck, John T., assignor.)
 Flicker, Louis, San Francisco, Cal. Hat-blocking apparatus. No. 1,156,356; Oct. 12; Gaz. vol. 219; p. 382.
 Flickinger, George S., San Diego, Cal. Locking device. No. 1,124,882; Jan. 12; Gaz. vol. 210; p. 636.
 Flickinger, John C., Lehighton, assignor of one-half to J. A. Engesser, Mauch Chunk, Pa. Steering-wheel brake for automobiles. No. 1,159,340; Nov. 2; Gaz. vol. 220; p. 323.
 Flight, James C., Swan Hill, Victoria, Australia. Platform adjustment. No. 1,135,572; Apr. 13; Gaz. vol. 213; p. 571.
 Flinchbaugh, Eli D., York, Pa. Bag-holder. No. 1,125,286; Jan. 19; Gaz. vol. 210; p. 814.
 Flinn, Richard P., New York, N. Y. Valve for internal-combustion engines. No. 1,123,863; Jan. 5; Gaz. vol. 210; p. 227.
 Fliner, John, Leavenworth, Kans. Farm-gate. No. 1,134,601; Apr. 6; Gaz. vol. 213; p. 189.
 Flint, Arthur J., assignor to Brambach Piano Company, New York, N. Y. Grand-piano action. No. 1,125,084; Jan. 19; Gaz. vol. 210; p. 741.
 Flint, Dutee W., Providence, R. I. Gage for measuring liquids. No. 1,126,968; Feb. 2; Gaz. vol. 211; p. 106.
 Flint, Henry F., Omaha, Nebr. Envelop. No. 1,134,075; Mar. 30; Gaz. vol. 212; p. 1651.
 Flint, John B., Boston, Mass. Arbor-press. No. 1,128,240; Feb. 9; Gaz. vol. 211; p. 592.
 Flint, Newton J., Suffolk, assignor of one-half to H. B. McQueen, Boston, Mass. Pneumatic vehicle-tire. No. 1,128,304; Feb. 16; Gaz. vol. 211; p. 666.
 Flint, Ralph N., Washington, D. C. Door-operating mechanism. No. 1,134,325; Apr. 6; Gaz. vol. 213; p. 89.
 Flint & Walling Manufacturing Company. (See Macomber, Herbert H., assignor.)
 Flintkote Manufacturing Company. (See Bird, Reginald W., assignor.)
 Flintkote Manufacturing Company. (See Overbury, Frederick C., assignor.)
 Flintkote Manufacturing Company. (See Overbury and Platts, assignors.)
 Flipse, Louis F., Sheboygan, Wis., assignor, by mesne assignments, to Corrugated Veneer Packing Products Company. Veneer pad. No. 1,156,895; Oct. 19; Gaz. vol. 219; p. 602.
 Float-Jet Carburetor Co. (See Smith, Elmer S., assignor.)
 Flockhart, James, Denver, Colo. Apparatus for flushing water-closets. No. 1,149,568; Aug. 10; Gaz. vol. 217; p. 487.
 Floersheim, Samuel, New York, N. Y. Dirigible headlight for automobiles. No. 1,126,438; Jan. 26; Gaz. vol. 210; p. 1259.
 Floersheim, Samuel, New York, N. Y. Vehicle wheel-tire. No. 1,134,188; Apr. 6; Gaz. vol. 213; p. 38.
 Floerzi, John B., assignor of one-half to J. T. Smith, St. Paul, Minn. Moving-picture screen and producing the same. No. 1,152,620; Sept. 7; Gaz. vol. 218; p. 88.
 Flood, Leslie W., Chicago, Ill. Brick-kiln. No. 1,160,156; Nov. 16; Gaz. vol. 220; p. 700.
 Flook, Chas. D., et al. (See Moore, Charles P., assignor.)
 Flora, Ellsworth E., assignor to The Seal & Fastener Co., Chicago, Ill. Strap-tightening implement. No. 1,149,569; Aug. 10; Gaz. vol. 217; p. 487.
 Flora, Ellsworth E., and J. F. Murphy, Chicago, Ill., assignors, by mesne assignments, to Mantle Machinery and Patents Company, New York, N. Y. Mantle-threading machine. No. 1,151,579; Aug. 31; Gaz. vol. 217; p. 1356.
 Floerken, Emil F., Los Angeles, Cal. Device for operating door-bolts. No. 1,133,948; Mar. 30; Gaz. vol. 212; p. 1609.
 Florentine Flooring Company Limited, The. (See Lizieri, Giovanni, assignor.)
 Florey, Tilghman J., Washington, N. J., assignor to American Sanitary Works, New York, N. Y. Ball-cock. No. 1,148,835; Aug. 3; Gaz. vol. 217; p. 126.

Alphabetical list of patentees—Continued.

- Florey, Tilghman J., Washington, N. J., assignor to American Sanitary Works, New York, N. Y. Pneumatic closet-seat buffer. No. 1,158,039; Oct. 26; Gaz. vol. 219; p. 1066.
- Florian, Charles H., assignor to Société Anonyme des Etablissements Lacour-Berthiot, Paris, France. Objective for optical apparatus. No. 1,145,132; July 6; Gaz. vol. 216; p. 56.
- Flory Carry Iron Company. (See Crown, Eugene H., assignor.)
- Flory Carry Iron Company. (See Crown, Westlake, and Shallenberger, assignors.)
- Flory Carry Iron Company. (See Westlake, Charles T., assignor.)
- Flory Carry Iron Company. (See Westlake and Shallenberger, assignors.)
- Flower, Arthur L., Glasgow, Scotland. Bottle-labeling machine. No. 1,140,736; May 25; Gaz. vol. 214; p. 1166.
- Flowers, Malon I., and W. S. Lynch, Waelder, Tex. Ginsaw cleaner. No. 1,140,669; May 25; Gaz. vol. 214; p. 1145.
- Floyd, Francis M., Elkhaville, Ill. Rotary fluid-pressure motor. No. 1,124,409; Jan. 12; Gaz. vol. 210; p. 454.
- Floyd, Francis M., Elkhaville, Ill. Rotary fluid-pressure motor. No. 1,166,044; Dec. 28; Gaz. vol. 221; p. 1280.
- Floyd, George G., Granite City, Ill., assignor to Twinplex Manufacturing Company, St. Louis, Mo. Razor-blade sharpener. No. 1,135,511; Apr. 13; Gaz. vol. 213; p. 549.
- Floyd, George G., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Brake. No. 1,135,512; Apr. 13; Gaz. vol. 213; p. 549.
- Floyd, George G., Chicago, Ill., assignor to The American Steel Foundries, New York, N. Y. Brake-head. No. 1,165,660; Dec. 28; Gaz. vol. 221; p. 1148.
- Floyd, John I. (See Ball and Floyd.)
- Floyd, John I. (See Ball, Floyd, and Carr.)
- Floyd, William B., assignor of one-half to H. C. Hermes-meyer, Fort Worth, Tex. Electric animal-prod. No. 1,158,473; Nov. 2; Gaz. vol. 220; p. 22.
- Flues, Emil F., Ithaca, N. Y. Rib for gun-sights. No. 1,160,157; Nov. 16; Gaz. vol. 220; p. 701.
- Flynn, Bernard H., Columbus, Ohio. Tonsorial mask. No. 1,145,133; July 6; Gaz. vol. 216; p. 56.
- Flynn, Clement L., Bellingham, Wash., assignor to Welles Thompson Company, Minneapolis, Minn. Silo. No. 1,130,894; Mar. 9; Gaz. vol. 212; p. 401.
- Flynn, James, Rogers, Minn. Potato-picker. No. 1,138,371; May 4; Gaz. vol. 214; p. 229.
- Flynn, Michael H., Milwaukee, Wis. Tire-holder. No. 1,146,417; July 13; Gaz. vol. 216; p. 524.
- Flynn, Thomas L. (See Smith and Flynn.)
- Flynt, Louis W. G., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,163,651; Dec. 14; Gaz. vol. 221; p. 365.
- Foans, Andrew B., New York, N. Y. Bag-lock. No. 1,126,439; Jan. 26; Gaz. vol. 210; p. 1259.
- Foard Starter Manufacturing Company. (See De Berry, Edmond P., assignor.)
- Fobare, Anthony, New York, N. Y. Device for measuring fabric in rolls. No. 1,148,705; Aug. 3; Gaz. vol. 217; p. 102.
- Focardi, Pier-Luigi, Brooklyn, N. Y., assignor to Garwood Company, Garwood, N. J. Automatic stop for cruet-trolleys. No. 1,150,003; Aug. 10; Gaz. vol. 217; p. 647.
- Focke, Richard. (See Egeling, William, assignor.)
- Focks, Fred A., Crane, Mo. Collapsible crate. No. 1,156,221; Oct. 12; Gaz. vol. 219; p. 335.
- Foerster, Henry, Chicago, Ill. Sash-lock. No. 1,126,969; Feb. 2; Gaz. vol. 211; p. 106.
- Foerster, Oscar E., and C. H. Seaman, Milwaukee, Wis. Shelf-support for one-piece refrigerator-compartments. No. 1,127,983; Feb. 9; Gaz. vol. 211; p. 504.
- Foerster, Otto H. (See Seaman, Charles H., assignor.)
- Foersterling, Hans, Perth Amboy, N. J., assignor to Roessler and Hasslacher Chemical Company. Generating steam accessory to the production of producer-gas. No. 1,151,676; Aug. 31; Gaz. vol. 217; p. 1388.
- Foersterling, Hans, and H. Philipp, Perth Amboy, N. J., assignors to The Roessler & Hasslacher Chemical Co., New York, N. Y. Removing metallic coverings from other metals. No. 1,160,590; Nov. 16; Gaz. vol. 220; p. 852.
- Foersterling, Hans, and A. L. Halvorsen, Perth Amboy, N. J., assignors to The Roessler & Hasslacher Chemical Co., New York, N. Y. Extracting values from ores. No. 1,164,636; Dec. 21; Gaz. vol. 221; p. 750.
- Fogalsang, Thomas E., San Francisco, Cal. Protective device for steering-wheels. No. 1,154,389; Sept. 21; Gaz. vol. 218; p. 785.
- Fogarty, Charles A., New York, N. Y. Brush. No. 1,138,466; May 4; Gaz. vol. 214; p. 262.
- Fogarty, Charles E., San Francisco, Cal. Can-sorting machine. No. 1,158,669; Nov. 2; Gaz. vol. 220; p. 92.
- Fogarty, John C., Green Bay, Wis. Machine for slitting, perforating, and rewinding paper. No. 1,154,301; Sept. 21; Gaz. vol. 218; p. 753.
- Fogarty, Michael J., Brooklyn, N. Y. Device for feeding and compressing granular materials. No. 1,164,276; Dec. 14; Gaz. vol. 221; p. 583.
- Fogerty, John V., Chicago, Ill. Railway-crossing. No. 1,135,888; Apr. 13; Gaz. vol. 213; p. 682.
- Fogg, Newell T., Sanford, Me. Medical appliance. No. 1,137,393; Apr. 27; Gaz. vol. 213; p. 1297.
- Fogg, Newell T., Sanford, Me. Hockey-stick. No. 1,143,376; June 15; Gaz. vol. 215; p. 880.
- Fogle, John L. and V. L., Fairbury, Nebr. Pump. No. 1,125,830; Jan. 19; Gaz. vol. 210; p. 1008.
- Fogle, Virgil L. (See Fogle, John L. and V. L.)
- Fogle, William C., Williamsburg, Kans. Trousers-display hanger or rack. No. 1,127,222; Feb. 2; Gaz. vol. 211; p. 197.
- Fogle, William C., Williamsburg, Kans. Display-cabinet. No. 1,127,223; Feb. 2; Gaz. vol. 211; p. 197.
- Fogler, George L., Pittsburgh, Pa. Furnace-burner. No. 1,163,650; Dec. 14; Gaz. vol. 221; p. 364.
- Fohr, Carl, Munich, Germany. Manufacture of briquets from suitable briquet materials. No. 1,123,719; Jan. 5; Gaz. vol. 210; p. 177.
- Foight, Jesse B., and A. M. Newell, Irwin, Pa., assignors to U. S. Slicing Machine Company, Chicago, Ill. Meat and bone cutting machine. No. 1,161,039; Nov. 23; Gaz. vol. 220; p. 1057.
- Foill, Fredrick J., Jackson, Mich. Spring-cushion construction. No. 1,133,119; Mar. 23; Gaz. vol. 212; p. 1280.
- Foill, Fredrick J., Jackson, Mich. Cushion-seat. No. 1,140,973; May 25; Gaz. vol. 214; p. 1252.
- Folberth, Frederick G., Cleveland, Ohio. Carbureter. No. 1,138,204; May 4; Gaz. vol. 214; p. 169.
- Folberth, Frederick G., Cleveland, Ohio. Attachment for hydrocarbon engines. No. 1,142,951; June 15; Gaz. vol. 215; p. 730.
- Foldeak, Kalman. (See Spendlove and Foldeak.)
- Folden, Frank H., assignor to Northwestern Manufacturing Company, Sioux City, Iowa. Multimolding concrete-block machine. No. 1,157,522; Oct. 19; Gaz. vol. 219; p. 824.
- Foleen, Gustaf. (See Willner and Foleen.)
- Foley, Edward P., Thorold, Ontario, Canada. Bleaching ground wood-pulp. No. 1,154,851; Sept. 28; Gaz. vol. 218; p. 969.
- Foley, Frank, Mayview, Ark. Pump. No. 1,164,469; Dec. 14; Gaz. vol. 221; p. 652.
- Foley, Frank B., Ingersoll, Ontario, Canada. Bearing-guard. No. 1,161,465; Nov. 23; Gaz. vol. 220; p. 1210.
- Foley, Frank B., Ingersoll, Ontario, Canada. Feeding mechanism for uppercut apple-slicing machines. No. 1,161,466; Nov. 23; Gaz. vol. 220; p. 1210.
- Foley, James. (See Reed and Foley.)
- Foley, Philip J., Chicago, Ill. Bracket for rafters. No. 1,129,462; Feb. 23; Gaz. vol. 211; p. 1105.
- Foley, Thomas. (See Myers, Fred L., assignor.)
- Foley, Thomas F., Washington, D. C. Float-valve. No. 1,160,395; Nov. 16; Gaz. vol. 220; p. 782.
- Folger, Edward P., Boundbrook, N. J. Smoke and gas returning means for stoves and furnaces. No. 1,150,934; Aug. 24; Gaz. vol. 217; p. 1091.
- Folger, Harry S., Chicago, Ill. Hand-stamp. No. 1,142,560; June 8; Gaz. vol. 215; p. 555.
- Folger, Harry S., Chicago, Ill. Hand-stamp. No. 1,142,561; June 8; Gaz. vol. 215; p. 556.
- Folger, Harry S., Chicago, Ill. Reversible blank for stamp-mounts. No. 1,142,562; June 8; Gaz. vol. 215; p. 556.
- Folger, Harry S., and C. L. Redfield, Chicago, Ill.; said Redfield assignor to said Folger. Self-inking hand-stamp. No. 1,132,519; Mar. 16; Gaz. vol. 212; p. 1012.
- Folger, Harry S., and C. L. Redfield, Chicago, Ill.; said Redfield assignor to said Folger. Self-inking hand-stamp. No. 1,134,950; Apr. 6; Gaz. vol. 213; p. 309.
- Foljame, Eugene S., Philadelphia, Pa. Pedal-locking mechanism. No. 1,156,990; Oct. 19; Gaz. vol. 219; p. 636.
- Folkerts, Henry J., Buffalo Center, Iowa. Fence-wire clamp. No. 1,146,489; July 13; Gaz. vol. 216; p. 553.
- Follansbee, C. D. (See Crane, Peter B., assignor.)
- Follansbee, Gilbert, et al. (See Smith, George Z., assignor.)
- Follmer Clogg & Co. (See Dellinger, John M., assignor.)
- Follweiler, Oliver F., et al. (See Savidge, William F., assignor.)
- Folly, Cornelius A., Boonton, N. J. Non-refillable bottle. No. 1,159,203; Nov. 2; Gaz. vol. 220; p. 276.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Saw-guard. No. 1,126,970; Feb. 2; Gaz. vol. 211; p. 107.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Camera-front. No. 1,134,522; Apr. 6; Gaz. vol. 213; p. 160.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,139,922; May 11; Gaz. vol. 214; p. 497.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic exposing mechanism. No. 1,139,023; May 11; Gaz. vol. 214; p. 497.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Holder for photographic sensitized material. No. 1,146,858; July 20; Gaz. vol. 216; p. 698.
- Folscheld, John W., Philadelphia, Pa. Grinding-machine. No. 1,124,883; Jan. 12; Gaz. vol. 210; p. 636.

Alphabetical list of patentees—Continued.

- Folsom, Charles S., San Diego, Cal. Water-heater regulator. No. 1,139,408; May 11; Gaz. vol. 214; p. 630.
- Folsom, Charles W. (See Folsom, Thomas D. and C. W.)
- Folsom, Lenpha A., Roonville, Ind. Display-rack. No. 1,155,558; Oct. 5; Gaz. vol. 219; p. 81.
- Folsom, Robert M., Reading, Mass., assignor to New England Gas & Coke Company. Magnetic separator. No. 1,161,299; Nov. 23; Gaz. vol. 220; p. 1151.
- Folsom, Thomas D. and C. W., Clintonville, Ala. Cotton-scraper. No. 1,124,120; Jan. 5; Gaz. vol. 210; p. 313.
- Foltz, David J. (See Cornwall and Foltz.)
- Foltz, Philip W. (See Nolze and Foltz.)
- Foltzer, Emilio, Rivarolo Ligure, Italy. Wax or paraffin lamp. No. 1,123,268; Jan. 5; Gaz. vol. 210; p. 22.
- Foltzer, Josef, Metz, assignor to B. Boryzkowski, Charlottenburg, Germany. Making imitation textile products from solutions of cellulose or plastic substances. No. 1,133,548; Mar. 30; Gaz. vol. 212; p. 1468.
- Fonblanc, Arthur F. de, *et al.* (See Drunitt, Percy W., assignor.)
- Foner, Newton F., Pittsburgh, Pa. Measuring instrument. No. 1,128,673; Feb. 16; Gaz. vol. 211; p. 791.
- Fontan, Pierre, Chicago, Ill. Fastener-setting implement. No. 1,149,642; Aug. 10; Gaz. vol. 217; p. 518.
- Fontenot, Thomas, God. La. Oil-well rig. No. 1,156,678; Oct. 12; Gaz. vol. 219; p. 497.
- Foos Gas Engine Company, The. (See Edwards, Albert Y., assignor.)
- Foos, Marcus A., Fremont, assignor to National Carbon Company, Cleveland, Ohio. Dry cell. No. 1,143,181; June 15; Gaz. vol. 215; p. 811.
- Foose, Alfred L., Washington, D. C., assignor to W. F. Emerson, Buffalo, N. Y. Hinge. No. 1,129,284; Feb. 23; Gaz. vol. 211; p. 1041.
- Foot, Arthur B., Grass Valley, Cal. Cam for stamp-batteries. No. 1,152,161; Aug. 31; Gaz. vol. 217; p. 1557.
- Foot, Charles Y., Nephi, Utah. Film-revinding device. No. 1,138,205; May 4; Gaz. vol. 214; p. 169.
- Foot, Frederick F., Falls Church, Va. Aeroplane. No. 1,123,720; Jan. 5; Gaz. vol. 210; p. 178.
- Foot, John B., Chicago, Ill. Cap-placer. No. 1,128,435; Feb. 16; Gaz. vol. 211; p. 709.
- Foot, Theodore M., Allston, assignor to National Binding Machine Co., Boston, Mass. Strin-serving apparatus. No. 1,149,144; Aug. 3; Gaz. vol. 217; p. 231.
- Foothrap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Type-writing machine. No. 1,146,148; July 13; Gaz. vol. 216; p. 431.
- Foran, James. (See Carlson and Foran.)
- Foran, Philip. (See Hepp, George A., assignor.)
- Forbes, Gordon, and T. Holt, assignors to Forbes Manufacturing Company, Portland, Ore. Boring-machine. No. 1,165,328; Dec. 21; Gaz. vol. 221; p. 991.
- Forbes, Harry L., Kansas City, Kans. Automatic sign. No. 1,161,853; Nov. 30; Gaz. vol. 220; p. 1389.
- Forbes, James M. (See Corral and Forbes.)
- Forbes, John S., and R. H. Poston, Flat River, Mo. Permutation-padlock. No. 1,137,960; May 4; Gaz. vol. 214; p. 84.
- Forbes, Joseph W., assignor of one-third to J. A. Ridgwell and one-third to W. H. Ridgwell, Norfolk, Va. Coin-vending machine. No. 1,140,451; May 25; Gaz. vol. 214; p. 1068.
- Forbes, Leighton H., and F. W. Barkley, assignors to American Drafting Furniture Co., Rochester, N. Y. Tool-chest. No. 1,162,854; Dec. 7; Gaz. vol. 221; p. 43.
- Forbes Lithograph Mfg. Co., The. (See Clark, Jesse R., assignor.)
- Forbes Manufacturing Company. (See Forbes and Holt, assignors.)
- Forbes, Philip J., New York, N. Y. Reel-guide and strap-holder. No. 1,144,831; June 29; Gaz. vol. 215; p. 1436.
- Forbes, Robert A., assignor to The Anderson Tool Company, Hamilton, Ohio. Weighing-scale. No. 1,134,675; Apr. 6; Gaz. vol. 213; p. 216.
- Forbess, David M. (See Allen and Forbess.)
- Force, Naomi, New York, N. Y. Hat-frame drier. No. 1,160,153; Nov. 16; Gaz. vol. 220; p. 701.
- Force, William A., New York, N. Y. Indicating device for numbering-machines. No. 1,153,901; Sept. 21; Gaz. vol. 218; p. 616.
- Ford, Bacon & Davis. (See Davis, George H., assignor.)
- Ford, Bacon & Davis. (See Von Phul, William, assignor.)
- Ford, Bacon & Davis. (See Von Phul, Black, and Lockett, assignors.)
- Ford, Ben K., assignor to Detroit Can Company, Detroit, Mich. Receptacle. No. 1,141,534; June 1; Gaz. vol. 215; p. 160.
- Ford, Ben K., Detroit, Mich., assignor to American Can Company, New York, N. Y. Paper-jacketed can. No. 1,147,227; July 20; Gaz. vol. 216; p. 829.
- Ford, Ben K., Oak Park, and L. E. Birch, Maywood, Ill., assignors to American Can Company, New York, N. Y. Casing for containers. No. 1,131,689; Mar. 16; Gaz. vol. 212; p. 709.
- Ford, Bruce, Philadelphia, Pa. Means for holding cells in a battery-box. No. 1,142,245; June 8; Gaz. vol. 215; p. 444.
- Ford, Bruce, Philadelphia, Pa. Connector-puller for battery-terminals. No. 1,147,932; July 27; Gaz. vol. 216; p. 1102.
- Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,150,023; Aug. 17; Gaz. vol. 217; p. 714.
- Ford, Bruce, Philadelphia, Pa. Changing the composition of iron and steel. No. 1,156,679; Oct. 12; Gaz. vol. 219; p. 498.
- Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,163,991; Dec. 14; Gaz. vol. 221; p. 485.
- Ford, Bruce, Philadelphia, Pa. Automatic filler and vent for storage batteries. No. 1,163,992; Dec. 14; Gaz. vol. 221; p. 485.
- Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,163,993; Dec. 14; Gaz. vol. 221; p. 486.
- Ford, Bruce, Philadelphia, and J. L. Phillips, Haverford, Pa. Electric storage battery. No. 1,151,453; Aug. 24; Gaz. vol. 217; p. 1264.
- Ford, Charles A., Newark, N. J., assignor to Ford Manufacturing Company. Non-refillable bottle. No. 1,140,452; May 25; Gaz. vol. 214; p. 1069.
- Ford, Clayton B., Portland, Ore. Hose-supporter clamp. No. 1,161,650; Nov. 23; Gaz. vol. 220; p. 1272.
- Ford, David, Eldorado, Okla. Propeller-feathering means. No. 1,158,195; Oct. 26; Gaz. vol. 219; p. 1122.
- Ford, Ernest C., Fitchburg, Mass. Hand-protector for spraying devices. No. 1,147,933; July 27; Gaz. vol. 216; p. 1102.
- Ford, Eugene A., Uxbridge, Mass. Balanced internal-combustion motor. No. 1,149,433; Aug. 10; Gaz. vol. 217; p. 441.
- Ford, Eugene A., Uxbridge, Mass. Self-starter for engines. No. 1,157,211; Oct. 19; Gaz. vol. 219; p. 714.
- Ford, Eugene A., Uxbridge, Mass. Internal-combustion engine. No. 1,165,086; Dec. 21; Gaz. vol. 221; p. 907.
- Ford, George W., Gourrock, Scotland. Apparatus for operating two mechanisms in synchronism. No. 1,153,210; Sept. 14; Gaz. vol. 218; p. 336.
- Ford, Hannah M., Bath, England. Device for measuring, correcting, and trimming skirts and the like. No. 1,149,434; Aug. 10; Gaz. vol. 217; p. 441.
- Ford, Hannibal C., New York, assignor of one-half to C. F. Burrows, Syracuse, N. Y. Ventilated compartment. No. 1,137,473; Apr. 27; Gaz. vol. 213; p. 1324.
- Ford, Henry, Detroit, Mich. Traction-engine. No. 1,153,052; Sept. 7; Gaz. vol. 218; p. 244.
- Ford, Henry R., Buffalo, N. Y. Machine-efficiency recorder. No. 1,154,983; Sept. 28; Gaz. vol. 218; p. 1014.
- Ford, Howeth T., Central Valley, N. Y. Washing device for automobiles and other vehicles. No. 1,142,689; June 8; Gaz. vol. 215; p. 598.
- Ford, Howeth T., Central Valley, N. Y. Washing device for automobiles or like vehicles. No. 1,152,016; Aug. 31; Gaz. vol. 217; p. 1506.
- Ford, James T., Verdi, Nev. Car-door roller. No. 1,163,396; Dec. 7; Gaz. vol. 221; p. 232.
- Ford, John O., Jacksonville, Tex. Safety door or gate latch. No. 1,163,397; Dec. 7; Gaz. vol. 221; p. 232.
- Ford Manufacturing Company. (See Ford, Charles A., assignor.)
- Ford-Perry Co. (See Perry, George F., assignor.)
- Ford, Robert E., Baltimore Md. Staple forming and setting implement. No. 1,155,141; Sept. 28; Gaz. vol. 218; p. 1071.
- Ford, Robert W., Vancouver, British Columbia, Canada. Heater for fluid mediums. No. 1,160,870; Nov. 16; Gaz. vol. 220; p. 952.
- Ford, Samuel M., Des Moines, Iowa. Heating-stove. No. 1,165,165; Dec. 21; Gaz. vol. 221; p. 936.
- Ford, Silas M., St. Paul, Minn. Lath-board. No. 1,156,866; Oct. 12; Gaz. vol. 219; p. 563.
- Ford, Silas M., St. Paul, Minn. Lath-board. No. 1,160,271; Nov. 16; Gaz. vol. 220; p. 740.
- Ford, Thomas F., New York, N. Y. Hose-supporter. No. 1,144,832; June 29; Gaz. vol. 215; p. 1436.
- Ford, William H., assignor of one-half to F. Hanchett, Lowell, Mass. Jeweler's polishing-wheel. No. 1,150,024; Aug. 17; Gaz. vol. 217; p. 715.
- Fordice, Edwin, Fairbury, Nebr. Skate attachment. No. 1,141,454; June 1; Gaz. vol. 215; p. 131.
- Fordyce, Edmond A., assignor to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,138,206; May 4; Gaz. vol. 214; p. 169.
- Fordyce, John R., Little Rock, Ark. Cotton-bale carrier. No. 1,132,003; Mar. 16; Gaz. vol. 212; p. 823.
- Fordyce, Roy H., Bethany, Mo. Disk-sharpener. No. 1,163,994; Dec. 14; Gaz. vol. 221; p. 486.
- Fore River Shipbuilding Company. (See Curtis and Lovell, assignors.)
- Foreman, Amos L., Baltimore, Md. Sealing device. No. 1,124,005; Jan. 5; Gaz. vol. 210; p. 274.
- Foreman, Amos L., Baltimore, Md. Bottle washing, rinsing, and sterilizing machine. No. 1,151,538; Aug. 24; Gaz. vol. 217; p. 1295.
- Foreman, Samuel M., Hutchinson, Kans. Expansion-ring for wood-stave silos. No. 1,136,000; Apr. 20; Gaz. vol. 213; p. 762.
- Forest, Francis A., Sault Ste. Marie, assignor of one-half to J. P. Conrick and one-half to T. F. Hickler, Detroit, Mich. Portable fire-escape. No. 1,144,702; June 29; Gaz. vol. 215; p. 1390.
- Forest King Machine Company. (See Bowker and Smith, assignors.)

Alphabetical list of patentees—Continued.

- Forest King Machine Company. (See Gooch, Orrel A., assignor.)
- Forest, Will, and R. E. Hunt, Oakdale, La. Log-chain fastener. No. 1,123,509; Jan. 5; Gaz. vol. 210; p. 107.
- Foretich, Joseph S., and F. L. Grooms, Gulfport, Miss. Extracting apparatus. No. 1,149,039; Aug. 3; Gaz. vol. 217; p. 196.
- Forged Steel Valve Company, The. (See Patterson, Franklin M., assignor.)
- Forged Steel Wheel Company. (See Hansen, John M., assignor.)
- Forgey, John T., Wellsville, Kans. Pipe connection. No. 1,162,595; Nov. 30; Gaz. vol. 220; p. 1645.
- Forkner, Charles E., Marshalltown, Iowa. Harrow. No. 1,163,227; Dec. 7; Gaz. vol. 221; p. 172.
- Forier, Dave, *et al.* (See Melin, August, assignor.)
- Forman, Joseph, Walbrook, Md. Sewing-machine. No. 1,136,001; Apr. 20; Gaz. vol. 213; p. 763.
- Forman, Joseph, Walbrook, Md. Labeling-ticket. No. 1,165,497; Dec. 28; Gaz. vol. 221; p. 1090.
- Forman, Paris R., Chicago, Ill., assignor to National Pneumatic Company, New York, N. Y. Door-operating mechanism for passenger-cars. No. 1,147,854; July 27; Gaz. vol. 216; p. 1074.
- Forman, Thomas P., Waterbury, Conn. Costumer. No. 1,136,787; Apr. 20; Gaz. vol. 213; p. 1041.
- Formby, John K., Logtown, Miss. Nut-lock. No. 1,140,974; May 25; Gaz. vol. 214; p. 1252.
- Fornaca, Guido, Turin, Italy. Gearing. No. 1,138,098; May 4; Gaz. vol. 214; p. 133.
- Fornaca, Guido, Turin, Italy. Friction-clutch. No. 1,138,099; May 4; Gaz. vol. 214; p. 133.
- Fornaca, Guido, Turin, Italy, assignor to F. I. A. T. Combustion-engine. No. 1,146,788; July 20; Gaz. vol. 216; p. 674.
- Fornaca, Guido, Turin, Italy, assignor to F. I. A. T. Combustion-engine. No. 1,157,769; Oct. 26; Gaz. vol. 219; p. 971.
- Fornellus, Axel F., Athenia, N. J. Fire-escape. No. 1,164,489; Dec. 14; Gaz. vol. 221; p. 659.
- Forner, Georg, Berlin, Germany, assignor to General Electric Company. Elastic-fluid turbine. No. 1,160,704; Nov. 16; Gaz. vol. 220; p. 896.
- Forney, Clarence H., Jersey City, N. J. Spool. No. 1,159,204; Nov. 2; Gaz. vol. 220; p. 277.
- Forniraseo, Domenico, Klamath Falls, Oreg. Tongue for vehicles. No. 1,134,835; Apr. 6; Gaz. vol. 213; p. 271.
- Forrest, Charles N. (See Wilson and Forrest.)
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Manufacture of asphalt cement from natural asphalts. No. 1,163,593; Dec. 7; Gaz. vol. 221; p. 300.
- Forrester, James C., New York, N. Y. Bottle-cap manufacture. No. 1,131,354; Mar. 9; Gaz. vol. 212; p. 558.
- Forrester, James C., New York, N. Y. Bottle-cap-assembling machine. No. 1,131,355; Mar. 9; Gaz. vol. 212; p. 558.
- Forrester, James C., New York, N. Y. Bottle-cap-assembling machine. No. 1,135,513; Apr. 13; Gaz. vol. 213; p. 550.
- Forrester, Peter C., West Tacoma, Wash. Pulverizer. No. 1,142,159; June 8; Gaz. vol. 215; p. 414.
- Forrester, Robert E., Burleson, Tex. Cultivator-cuff. No. 1,154,180; Sept. 21; Gaz. vol. 218; p. 712.
- Forry, Charles E., *et al.* (See Duncan, Arthur L., assignor.)
- Forry, Charles E., Oakland, Cal. Can-cap dropper. No. 1,128,967; Feb. 16; Gaz. vol. 211; p. 896.
- Forsberg, Oscar F., Yonkers, assignor to Western Electric Company, New York, N. Y. Selector-switch. No. 1,125,682; Jan. 19; Gaz. vol. 210; p. 956.
- Forsberg, Oscar F., Yonkers, assignor to Western Electric Company, New York, N. Y. Calling device. No. 1,161,854; Nov. 30; Gaz. vol. 220; p. 1390.
- Forsberg, Oscar F., assignor to Western Electric Company, New York, N. Y. Electromagnetic device. No. 1,163,903; Dec. 14; Gaz. vol. 221; p. 454.
- Forsberg, Oscar F., Yonkers, assignor to Western Electric Company, New York, N. Y. Terminal mounting for metallic spools. No. 1,163,904; Dec. 14; Gaz. vol. 221; p. 454.
- Forscher, Herman, New York, N. Y. Food product and making same. No. 1,130,723; Mar. 9; Gaz. vol. 212; p. 342.
- Forschler, Philip, assignor to Philip Forscher Wagon and Manufacturing Company, New Orleans, La. Motor-vehicle. No. 1,154,500; Sept. 21; Gaz. vol. 218; p. 821.
- Forse, Julius W., Bishop Hill, Ill. Rail-joint. No. 1,157,770; Oct. 26; Gaz. vol. 219; p. 972.
- Forsgard, Edward F., assignor of one-third to J. W. Bass and one-third to F. Braatz, Waco, Tex. Package-tie. No. 1,132,571; Mar. 23; Gaz. vol. 212; p. 1078.
- Forshee, Frank F., assignor of one-half to A. E. Shepard, Flint, Mich. Tape-measure. No. 1,134,523; Apr. 6; Gaz. vol. 213; p. 161.
- Forsheim, Joseph, Great Neck, and J. Konigsberg, New York, N. Y. Lock. No. 1,149,643; Aug. 10; Gaz. vol. 217; p. 519.
- Forsheim, Joseph, Great Neck, and J. Konigsberg, New York, N. Y. Lock. No. 1,153,614; Sept. 14; Gaz. vol. 218; p. 482.
- Forsheim, Joseph, Great Neck, and J. Konigsberg, New York, N. Y. Pin-retainer. No. 1,153,615; Sept. 14; Gaz. vol. 218; p. 482.
- Forsman, John W., Deep River, Wash. Watchcase. No. 1,135,573; Apr. 13; Gaz. vol. 213; p. 571.
- Forsman, Stanton W., Pasadena, assignor to R. W. Pridham Company, Los Angeles, Cal. Shipping-container and board for constructing the same. No. 1,161,818; Nov. 23; Gaz. vol. 220; p. 1330.
- Forsstrom, William, Steubenville, Ohio. Sheet-turning apparatus. No. 1,164,277; Dec. 14; Gaz. vol. 221; p. 584.
- Forst, Aaron H., Louisville, Ky. Stovepipe-holder. No. 1,160,396; Nov. 16; Gaz. vol. 220; p. 782.
- Forst, Samuel G., Toronto, Ontario, Canada. Tube-coupling lock. No. 1,145,885; July 13; Gaz. vol. 216; p. 338.
- Forster, Carl C. (See Faltus, Joseph, assignor.)
- Forster, Charles E., Oak Park, Ill. Vehicle-tire. No. 1,163,000; Dec. 7; Gaz. vol. 221; p. 93.
- Forster, Earl, Rogerstown, Tex. Device for grinding and removing the valves of explosive-engines. No. 1,158,796; Nov. 2; Gaz. vol. 220; p. 136.
- Forster, Erle H. (See Kerscher and Forster.)
- Forster, John, Los Angeles, Cal. Pencil attachment. No. 1,153,211; Sept. 14; Gaz. vol. 218; p. 336.
- Forster, Martin A., Altoona, Pa. Faucet. No. 1,164,600; Dec. 14; Gaz. vol. 221; p. 696.
- Förster, Otto K. (See Saunders and Förster.)
- Forster, Sebastian, Brooklyn, N. Y. Fishing-line attachment. No. 1,153,053; Sept. 7; Gaz. vol. 218; p. 244.
- Forsyth, Adelbert, assignor to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Water-heater. No. 1,140,896; May 25; Gaz. vol. 214; p. 1225.
- Forsyth, Benjamin F., assignor to Perfection Rug Retainer Company, Salt Lake City, Utah. Rug-retainer. No. 1,137,748; May 4; Gaz. vol. 214; p. 9.
- Forsyth Brothers Company. (See Krebs, Charles E., assignor.)
- Forsyth Brothers Company. (See Sisson, Albert H., assignor.)
- Forsyth, Charles F. (See Wallace and Forsyth.)
- Forsyth, Ervin, Chicago, Ill. Egg-crate. No. 1,148,475; July 27; Gaz. vol. 216; p. 1294.
- Forsyth, George H., Chicago, Ill. Metal window construction. No. 1,131,625; Mar. 9; Gaz. vol. 212; p. 652.
- Forsyth, George H., Chicago, Ill. Weather-strip. No. 1,148,476; July 27; Gaz. vol. 216; p. 1294.
- Forsyth, George H., Chicago, Ill. Sash-cushion. No. 1,149,145; Aug. 3; Gaz. vol. 217; p. 231.
- Forsyth, George H., Chicago, Ill., assignor to Waugh Draft Gear Company. Draft-rigging for railway-cars. No. 1,123,510; Jan. 5; Gaz. vol. 210; p. 107.
- Forsyth, George H., Chicago, Ill., assignor to Waugh Draft Gear Company. Draft and buffing mechanism for railway-cars. No. 1,123,511; Jan. 5; Gaz. vol. 210; p. 108.
- Forsyth, George H., Chicago, Ill., assignor, by mesne assignments, to Waugh Draft Gear Company. Draft-rigging mechanism. No. 1,137,961; May 4; Gaz. vol. 214; p. 84.
- Forsyth, George H., Chicago, Ill., assignor to Waugh Draft Gear Company. Draft-rigging construction. No. 1,145,886; July 13; Gaz. vol. 216; p. 333.
- Forsyth, George H., Chicago, Ill., assignor, by mesne assignments to Waugh Draft Gear Company. Draft-rigging. No. 1,145,887; July 13; Gaz. vol. 216; p. 338.
- Forsyth, William D., Youngstown, Ohio, assignor, by mesne assignments, to Railway Products Corporation, Buffalo, N. Y. Forging for car-truck side frames. No. 1,125,287; Jan. 19; Gaz. vol. 210; p. 815.
- Forsyth, William D., Youngstown, Ohio, assignor, by mesne assignments, to Railway Products Corporation, Buffalo, N. Y. Truck side frame. No. 1,125,288; Jan. 19; Gaz. vol. 210; p. 815.
- Forsyth, William D., Youngstown, Ohio, assignor, by mesne assignments, to Railway Products Corporation, Buffalo, N. Y. Car-truck side frame. No. 1,125,289; Jan. 19; Gaz. vol. 210; p. 816.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Car-truck side frame. No. 1,125,290; Jan. 19; Gaz. vol. 210; p. 816.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Making car parts. No. 1,125,291; Jan. 19; Gaz. vol. 210; p. 816.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Car part. No. 1,125,292; Jan. 19; Gaz. vol. 210; p. 817.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Car part. No. 1,125,293; Jan. 19; Gaz. vol. 210; p. 817.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Making car parts. No. 1,125,294; Jan. 19; Gaz. vol. 210; p. 817.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Car-truck side frame. No. 1,125,295; Jan. 19; Gaz. vol. 210; p. 817.

Alphabetical list of patentees—Continued.

- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Making car parts. No. 1,125,296; Jan. 19; Gaz. vol. 210; p. 818.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Making car parts. No. 1,125,297; Jan. 19; Gaz. vol. 210; p. 818.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Car-truck side frame. No. 1,125,298; Jan. 19; Gaz. vol. 210; p. 818.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Car-truck side frame. No. 1,125,299; Jan. 19; Gaz. vol. 210; p. 819.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Making car parts. No. 1,125,300; Jan. 19; Gaz. vol. 210; p. 819.
- Forsyth, William D., Youngstown, Ohio, assignor, by mesne assignments, to Railway Products Corporation, Buffalo, N. Y. Removable assembled draft-gear. No. 1,130,386; Mar. 2; Gaz. vol. 212; p. 190.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Draft-gear. No. 1,130,387; Mar. 2; Gaz. vol. 212; p. 190.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Draft-gear. No. 1,130,388; Mar. 2; Gaz. vol. 212; p. 190.
- Forsyth, William D., Youngstown, Ohio, assignor, by mesne assignments, to Railway Products Corporation, Buffalo, N. Y. Metal railway-tie. No. 1,131,356; Mar. 9; Gaz. vol. 212; p. 558.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Forging-dies. No. 1,157,212; Oct. 19; Gaz. vol. 219; p. 714.
- Forsyth, William D., Youngstown, Ohio, assignor to Railway Products Corporation, Buffalo, N. Y. Forging-dies. No. 1,157,213; Oct. 19; Gaz. vol. 219; p. 715.
- Forsyth, William D., Youngstown, Ohio, assignor of one-half to H. E. Sheldon, Pittsburgh, Pa. Rail-brace. No. 1,163,816; Dec. 14; Gaz. vol. 221; p. 426.
- Forsyth, William H., Chicago, Ill., assignor to The Curtain Supply Co., Newark, N. J. Curtain-roller. No. 1,132,655; Mar. 23; Gaz. vol. 212; p. 1110.
- Forsyth, William J. (See Donovan and Forsyth.)
- Forsyth, William L., Swampscott, assignor to William Forsyth & Sons Company, West Lynn, Mass. Die-block. No. 1,158,670; Nov. 2; Gaz. vol. 220; p. 93.
- Forsythe, John F., Bloomington, Ind. Rail-joint. No. 1,159,835; Nov. 9; Gaz. vol. 220; p. 534.
- Fort, Louis, Jersey City, N. J. Adjustable clamp. No. 1,128,593; Feb. 16; Gaz. vol. 211; p. 764.
- Fort, Louis, Jersey City, N. J. Adjusting device for arc-lamps. No. 1,129,285; Feb. 23; Gaz. vol. 211; p. 1042.
- Fort Wayne Engineering and Manufacturing Company. (See Astrom, John, assignor.)
- Fortescue, Charles L. (See Randall, Farnsworth, and Fortescue.)
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer. No. 1,129,463; Feb. 23; Gaz. vol. 211; p. 1105.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer and winding. No. 1,129,464; Feb. 23; Gaz. vol. 211; p. 1105.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer. No. 1,129,465; Feb. 23; Gaz. vol. 211; p. 1106.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer-terminal. No. 1,129,466; Feb. 23; Gaz. vol. 211; p. 1106.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Terminal for electrical apparatus. No. 1,129,467; Feb. 23; Gaz. vol. 211; p. 1107.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Terminal bushing. No. 1,129,468; Feb. 23; Gaz. vol. 211; p. 1107.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer. No. 1,129,469; Feb. 23; Gaz. vol. 211; p. 1108.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Alternating-current transformer. No. 1,129,470; Feb. 23; Gaz. vol. 211; p. 1108.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer-winding. No. 1,129,471; Feb. 23; Gaz. vol. 211; p. 1108.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric-current transformer. No. 1,129,472; Feb. 23; Gaz. vol. 211; p. 1109.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer for electric currents. No. 1,129,473; Feb. 23; Gaz. vol. 211; p. 1109.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer. No. 1,129,474; Feb. 23; Gaz. vol. 211; p. 1109.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rectifier system. No. 1,130,265; Mar. 2; Gaz. vol. 212; p. 147.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Insulating-tube machine. No. 1,137,853; May 4; Gaz. vol. 214; p. 45.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of current distribution. No. 1,154,852; Sept. 28; Gaz. vol. 218; p. 969.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Temperature-indicator. No. 1,156,680; Oct. 12; Gaz. vol. 219; p. 498.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of current rectification. No. 1,158,474; Nov. 2; Gaz. vol. 220; p. 22.
- Fortescue, Charles L., Wilksburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cooling system for transformers. No. 1,135,103; Apr. 13; Gaz. vol. 213; p. 408.
- Fortescue, Charles L., Wilksburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric apparatus. No. 1,144,648; June 29; Gaz. vol. 215; p. 1371.
- Forth, Charles, Ottawa, Ontario, Canada. Pipe-joint. No. 1,140,508; May 25; Gaz. vol. 214; p. 1090.
- Forth, Charles, Ottawa, Ontario, Canada. Pipe-joint. No. 1,154,984; Sept. 28; Gaz. vol. 218; p. 1014.
- Forth, Charles, Boston, Mass. Pipe-joint. No. 1,145,578; July 6; Gaz. vol. 216; p. 210.
- Forth, Charles, Boston, Mass. Pipe-joint. No. 1,154,985; Sept. 28; Gaz. vol. 218; p. 1015.
- Forth, Charles, Ottawa, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Railway-ticket-issuing machine. No. 1,153,299; Sept. 14; Gaz. vol. 218; p. 367.
- Fortier, Theodore, *et al.* (See Boisvert, Philippe, assignor.)
- Fortin, Benjamin P., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,144,978; June 29; Gaz. vol. 215; p. 1485.
- Fortin, Benjamin P., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Erasing-shield for type-writing machines. No. 1,152,938; Sept. 7; Gaz. vol. 218; p. 206.
- Fortin, Charles W., Brockton, Mass. Detachable shoe-heel. No. 1,156,769; Oct. 12; Gaz. vol. 219; p. 528.
- Fortiner, Benjamin F., assignor to The Hale & Kilburn Manufacturing Company, Philadelphia, Pa. Car-seat. No. 1,164,637; Dec. 21; Gaz. vol. 221; p. 751.
- Fortiner, Benjamin F., and J. G. Main, assignors to The Hale and Kilburn Manufacturing Company, Philadelphia, Pa. Cushion. No. 1,143,182; June 13; Gaz. vol. 215; p. 812.
- Fortner, Hugh D., El Reno, Okla. Foldable tub-stand and wringer-support. No. 1,134,836; Apr. 6; Gaz. vol. 213; p. 271.
- Fortney, Olan V., Kitzmiller, Md. Miner's lamp. No. 1,132,324; Mar. 16; Gaz. vol. 212; p. 942.
- Fortuna-Werke Albert Hirth. (See Hirth, Carl A., assignor.)
- Fortuna-Werke, Special-Maschinenfabrik G. m. b. H. (See Loose, Johannes, assignor.)
- Fortuna-Werke, Specialmaschinenfabrik G. m. b. H. (See Walz, Friedrich, assignor.)
- Fortune, James D., La Jolla, Cal. Drawing-machine. No. 1,149,120; Aug. 3; Gaz. vol. 217; p. 222.
- Fortune, John R., Detroit, Mich. Stoker-box drive. No. 1,149,435; Aug. 10; Gaz. vol. 217; p. 442.
- Forward, Arthur J., Madison, N. Y. Knockdown suitcase. No. 1,160,871; Nov. 16; Gaz. vol. 220; p. 952.
- Fosbraey, Alfred T., Niagara Falls, N. Y. Coated-paper-drying apparatus. No. 1,144,896; June 29; Gaz. vol. 215; p. 1458.
- Foss, Andrew H., Elbow Lake, Minn. Rotary gas-engine. No. 1,131,922; Mar. 16; Gaz. vol. 212; p. 794.
- Foss, Benjamin Q. P., Chicago, Ill. Railway-tie. No. 1,136,113; Apr. 20; Gaz. vol. 213; p. 800.
- Foss, Benjamin Q. P., Chicago, Ill. Portable gas-producer for locomotives. No. 1,156,399; Oct. 12; Gaz. vol. 219; p. 399.
- Foss, Charles B. (See Foss, Walter E. and C. B.)
- Foss, John J., and J. D. Mayberry, Cleveland, Ohio; said Foss assignor to said Mayberry. Combination chair and adjustable ironing-board. No. 1,124,218; Jan. 5; Gaz. vol. 210; p. 349.
- Foss, Walter E. and C. B., Chicago, Ill. Non-refillable bottle. No. 1,160,501; Nov. 16; Gaz. vol. 220; p. 820.
- Fossenkemper, Harry E., Richmond, Ind. Chase-lock bar. No. 1,152,162; Aug. 31; Gaz. vol. 217; p. 1557.
- Fosston, Axel A., Minneapolis, Minn. Piston-ring. No. 1,147,228; July 20; Gaz. vol. 216; p. 820.
- Foster, Abner E., Jr., Covington, Ky. Shock-absorber. No. 1,161,300; Nov. 23; Gaz. vol. 220; p. 1151.
- Foster, Alva C. (See MacGregor and Foster.)

Alphabetical list of patentees—Continued.

- Foster, Alvah J., Syracuse, N. Y. Routing-machine. No. 1,154,752; Sept. 28; Gaz. vol. 218; p. 937.
- Foster Bros. Mfg. Co. (See Frank, William E., assignor.)
- Foster Brothers Manufacturing Company. (See Foster, William R., assignor.)
- Foster, C. H. (See Scovill, James P., assignor.)
- Foster, Charles H., Washington, D. C. Oiling and cleaning device for guns. No. 1,154,390; Sept. 21; Gaz. vol. 218; p. 785.
- Foster, Charles H., Kankakee, assignor to Union Special Machine Company, Chicago, Ill. Thread-cutter for sewing-machines. No. 1,123,721; Jan. 5; Gaz. vol. 210; p. 178.
- Foster, Clarence O. (See Hayter, Richard B., assignor.)
- Foster, Claud H., Cleveland, Ohio. Shock-absorbing device. No. 1,130,724; Mar. 9; Gaz. vol. 212; p. 342.
- Foster, Edna A., Boston, Mass. Clothes-rack. No. 1,157,858; Oct. 26; Gaz. vol. 219; p. 1003.
- Foster, Edward H., Queensbury, Bradford, England. Spinning and analogous machine. No. 1,149,121; Aug. 3; Gaz. vol. 217; p. 222.
- Foster, Edward H., Mount Vernon, N. Y. Motor-cycle stand. No. 1,160,397; Nov. 16; Gaz. vol. 220; p. 783.
- Foster, Ernest H., New York, N. Y. Apparatus for superheating steam. No. 1,136,114; Apr. 20; Gaz. vol. 213; p. 800.
- Foster, Ernest H., New York, N. Y. Locomotive-superheater. No. 1,151,934; Aug. 31; Gaz. vol. 217; p. 1477.
- Foster, Frank A., and C. S. Rockwell, Cisco, Tex. Power-transmitting device. No. 1,149,040; Aug. 3; Gaz. vol. 217; p. 196.
- Foster, Frank B. (See Prifold, George, assignor.)
- Foster, Fred H., Oxford, Ind. Automatic train-pipe coupling. No. 1,151,939; Aug. 31; Gaz. vol. 217; p. 1479.
- Foster, Fred H., Oxford, Ind. Automatic train-pipe valve. No. 1,164,711; Dec. 21; Gaz. vol. 221; p. 776.
- Foster, Freling C., Chicago, Ill. Safety appliance for boats. No. 1,133,629; Mar. 30; Gaz. vol. 212; p. 1498.
- Foster, George H. P., Chicago, Ill. Resilient or cushion heel. No. 1,154,917; Sept. 28; Gaz. vol. 218; p. 992.
- Foster, Harold S. (See Williams, Foster, and Wilkinson.)
- Foster, Harry W., and L. C. Hill, assignors to Alpha Alcohol Utensil Company, Newark, N. J. Sad-iron. No. 1,149,748; Aug. 10; Gaz. vol. 217; p. 554.
- Foster, Herbert, New Haven, Conn., assignor to Brandt Cashier Company, Chicago, Ill. Counting device. No. 1,128,594; Feb. 16; Gaz. vol. 211; p. 764.
- Foster, Homer, W. C. Turner, C. E. Bennett, and W. B. Linn, Casey, Ill. Automatic gasoline-vending apparatus. No. 1,153,376; Sept. 14; Gaz. vol. 218; p. 396.
- Foster, Hugh M., New York, N. Y. Food-inspecting device. No. 1,154,501; Sept. 21; Gaz. vol. 218; p. 821.
- Foster, James E., Clarksburg, Ontario, Canada. Blower-fan. No. 1,149,004; Aug. 10; Gaz. vol. 217; p. 611.
- Foster, James F., Buffalo, N. Y. Pot-cover. No. 1,141,455; June 1; Gaz. vol. 215; p. 132.
- Foster, John, Montreal, Quebec, Canada. High-pressure valve. No. 1,147,157; July 20; Gaz. vol. 216; p. 803.
- Foster, John, Montreal, Quebec, Canada. Valve. No. 1,147,387; July 20; Gaz. vol. 216; p. 885.
- Foster, John T., Wilmington, Del., assignor to H. W. Butterworth & Sons Company. Cloth-clamp. No. 1,159,755; Nov. 9; Gaz. vol. 220; p. 505.
- Foster Machine Company. (See McKean, John O., assignor.)
- Foster, May L., San Francisco, Cal. Hose-supporter. No. 1,124,121; Jan. 5; Gaz. vol. 210; p. 314.
- Foster, Oliver M., assignor to W. J. Rich, Cleveland, Ohio. Cleaning surfaces. No. 1,141,243; June 1; Gaz. vol. 215; p. 54.
- Foster, Pell W., assignor to Power Specialty Company, New York, N. Y. Garbage-destructer. No. 1,159,371; Nov. 9; Gaz. vol. 220; p. 366.
- Foster, Pruden D., and F. A. Guetschow, Beloit, Wis. Ice-saw. No. 1,162,596; Nov. 30; Gaz. vol. 220; p. 1645.
- Foster, Ralph L., assignor to Livermore & Knight Company, Providence, R. I. Advertising novelty. No. 1,162,230; Nov. 30; Gaz. vol. 220; p. 1521.
- Foster, Theodore W. (See Pond, Lester G., assignor.)
- Foster, Walter, Ocean City, N. J., assignor to S. B. Rogers, Philadelphia, Pa. Milk-bottle holder. No. 1,159,485; Nov. 9; Gaz. vol. 220; p. 408.
- Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Couch-hamock. No. 1,126,744; Feb. 2; Gaz. vol. 211; p. 28.
- Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Gravity-catch for sliding-side cribs. No. 1,151,774; Aug. 31; Gaz. vol. 217; p. 1423.
- Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Joint for sliding-side cribs. No. 1,151,775; Aug. 31; Gaz. vol. 217; p. 1423.
- Foster, William H., Flushing, N. Y. Drifting-valve for locomotives. No. 1,137,201; Apr. 27; Gaz. vol. 213; p. 1226.
- Foster, William J., Schenectady, N. Y., assignor to General Electric Company. Method of and means for operating synchronous dynamo-electric machines. No. 1,160,705; Nov. 16; Gaz. vol. 220; p. 896.
- Foster, William L., Dayton, Ohio. Friction-hinge. No. 1,153,903; Sept. 21; Gaz. vol. 218; p. 617.
- Foster, William L., and H. J. Williams, Dayton, Ohio. Casement-adjuster. No. 1,146,241; July 13; Gaz. vol. 216; p. 464.
- Fosterling, Jesse W., Missoula, Mont. Woodworking-machine. No. 1,136,594; Apr. 20; Gaz. vol. 213; p. 972.
- Fottier, Charles, Dorchester, Mass. Can-opener. No. 1,165,864; Dec. 28; Gaz. vol. 221; p. 1218.
- Foucar, Philipp E., Dusseldorf-Oberbik, Germany. Knending-machine. No. 1,133,274; Mar. 30; Gaz. vol. 212; p. 1371.
- Foukes, Philip, Pittsburgh, Pa. Splice for oil-derricks. No. 1,146,756; July 13; Gaz. vol. 216; p. 643.
- Foulke, Horace M., assignor to The J. L. Clark Carriage Company, Oshkosh, Wis. Vehicle-wheel and manufacturing same. No. 1,144,116; June 22; Gaz. vol. 215; p. 1161.
- Foulke, John T. (See Mann, Harry, assignor.)
- Foulkes-Gaylord Company. (See Gaylord and Capps, assignors.)
- Foulks, Irving, et al. (See Watts, William E., assignor.)
- Foundation Company, The. (See Brown, Louis L., assignor.)
- Fountain Electrical Floor Box Corporation. (See Bonnell, William A., assignor.)
- Fountain, Martin, Jr., Biloxi, Miss. Shrimp-seine-hauling device. No. 1,133,120; Mar. 23; Gaz. vol. 212; p. 1280.
- Fountain, Robert, J. K. Waters, and W. C. Winchester, Banning, Cal. Fruit-gatherer. No. 1,132,325; Mar. 16; Gaz. vol. 212; p. 942.
- Fouquet-Ward Bale Tying Company, The. (See Ward, Isaac E., assignor.)
- Four Wheel Drive Auto Company. (See Zachow, Otto, assignor.)
- Fournier, Frank, Puyallup, Wash. Corn-cutter. No. 1,139,856; May 18; Gaz. vol. 214; p. 824.
- Fournier, John B. J., Quosnoc, Me. Handle for cooking vessels. No. 1,143,898; June 22; Gaz. vol. 215; p. 1083.
- Fournier, Joseph B., Paris, France. Thermometer. No. 1,144,649; June 29; Gaz. vol. 215; p. 1372.
- Fournier, Joseph N. P., St. Hyacinthe, Quebec, Canada. Tobacco-pipe. No. 1,133,015; Mar. 23; Gaz. vol. 212; p. 1243.
- Fournier, Joseph N. P., St. Hyacinthe, Quebec, Canada. Tobacco-pipe. No. 1,152,163; Aug. 31; Gaz. vol. 217; p. 1558.
- Fourt, Frank, Fairfield, Iowa. Tool-bag for automobiles. No. 1,153,377; Sept. 14; Gaz. vol. 218; p. 397.
- Foust, Earl R., Flandreau, S. D. Miter-box. No. 1,147,496; July 20; Gaz. vol. 216; p. 923.
- Fout, Emmet D. (See Sample and Fout.)
- Fouts, Calvin C., Middletown, Ohio. Silo-door. No. 1,141,703; June 1; Gaz. vol. 215; p. 218.
- Fouts, Calvin C., assignor to The C. C. Fouts Company, Middletown, Ohio. Joint for metallic sheets. No. 1,155,717; Oct. 5; Gaz. vol. 219; p. 136.
- Fouts, Hiram C., Rhonesboro, Tex. Toy. No. 1,160,059; Nov. 9; Gaz. vol. 220; p. 611.
- Fouts, Roy W., Dawson, Nebr. Cotter-key. No. 1,154,753; Sept. 28; Gaz. vol. 218; p. 937.
- Fouts, Wiley B., Wichita, Kans. Tractor-engine. No. 1,125,085; Jan. 19; Gaz. vol. 210; p. 741.
- Fouyer, Joseph F., Marseille, France. Tooth-brush. No. 1,132,326; Mar. 16; Gaz. vol. 212; p. 942.
- Fowler, Benjamin F., Minneapolis, Minn. Water-motor. No. 1,166,199; Dec. 28; Gaz. vol. 221; p. 1339.
- Fowler Car Company, The. (See Fowler, William E., Sr., assignor.)
- Fowler Car Company, The. (See Murray, Charles F., assignor.)
- Fowler, Carl H., New York, N. Y. Shallow-water boat. No. 1,132,923; Mar. 23; Gaz. vol. 212; p. 1208.
- Fowler, Carl H., New York, N. Y. Propulsion of vessels. No. 1,163,075; Dec. 7; Gaz. vol. 221; p. 118.
- Fowler, Carl H., New York, N. Y. Boat. No. 1,163,076; Dec. 7; Gaz. vol. 221; p. 119.
- Fowler, Carl H., New York, N. Y. Apparatus for shallow-water boats. No. 1,163,077; Dec. 7; Gaz. vol. 221; p. 119.
- Fowler, Ernest, Seattle, Wash. Receptacle and closure therefor. No. 1,134,524; Apr. 6; Gaz. vol. 213; p. 161.
- Fowler, Frank E., Jr., St. Louis, Mo. Water-cooled internal-combustion engine. No. 1,159,918; Nov. 9; Gaz. vol. 220; p. 564.
- Fowler, Frank P., Phoenix, Ariz. Watchman's recording-clock. No. 1,141,244; June 1; Gaz. vol. 215; p. 54.
- Fowler, Frank T. (See Mayer and Fowler.)
- Fowler, Fred J., Rome, Ga. Agricultural implement. No. 1,152,086; Aug. 31; Gaz. vol. 217; p. 1532.
- Fowler, George, Philadelphia, Pa. Indicator for piano-keyboards. No. 1,137,394; Apr. 27; Gaz. vol. 213; p. 1297.
- Fowler, George A., Miami, assignor to Crown Mill Equipment Company, Phoenix, Ariz. Separator. No. 1,138,741; May 11; Gaz. vol. 214; p. 396.
- Fowler, George A., assignor to Crown Mill Equipment Company, Miami, Ariz. Separator. No. 1,146,932; July 20; Gaz. vol. 216; p. 725.

- Fowler, Gordon F., Oak Park, assignor to Sears, Roebuck & Company, Chicago, Ill. Elastic bearing for centrifugal machines. No. 1,126,971; Feb. 2; Gaz. vol. 211; p. 107.
- Fowler, J. Odell. (See Ashton and Curtis, assignors.)
- Fowler, Jonathan O., and G. W. Le Compte, New York, N. Y.; said Le Compte assignor to said Fowler. Curber for bridle-bits. No. 1,158,126; Oct. 26; Gaz. vol. 219; p. 1098.
- Fowler, Leslie M., et al. (See Goodyer, Harold J., assignor.)
- Fowler, Logan H., Colony, Kans. Sandpaper-gripper. No. 1,145,134; July 6; Gaz. vol. 216; p. 56.
- Fowler, Walter L. (See Mullett and Fowler.)
- Fowler, William, assignor of one-half to C. H. Krippendorf, Cincinnati, Ohio. Machine for use in the manufacture of welt-shoes. No. 1,136,222; Apr. 20; Gaz. vol. 213; p. 839.
- Fowler, William, assignor of one-half to C. H. Krippendorf, Cincinnati, Ohio. Machine for making insoles. No. 1,146,789; July 20; Gaz. vol. 216; p. 675.
- Fowler, William, assignor of one-half to C. H. Krippendorf, Cincinnati, Ohio. Outer sole for shoes. No. 1,154,623; Sept. 28; Gaz. vol. 218; p. 893.
- Fowler, William E., Jr., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Brake-beam fulcrum. No. 1,146,860; July 20; Gaz. vol. 216; p. 698.
- Fowler, William E., Jr., Hammond, Ind., and W. E. Fowler, Sr., Los Angeles, Cal. Car-roof construction. No. 1,134,117; Apr. 6; Gaz. vol. 213; p. 12.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Stake-pocket. No. 1,128,863; Feb. 16; Gaz. vol. 211; p. 857.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Collapsible stake-pocket. No. 1,128,864; Feb. 16; Gaz. vol. 211; p. 857.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Running-board saddie. No. 1,135,514; Apr. 13; Gaz. vol. 213; p. 550.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Running-board bracket. No. 1,140,147; May 18; Gaz. vol. 214; p. 928.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Car-door. No. 1,146,859; July 20; Gaz. vol. 216; p. 698.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Underframe construction. No. 1,146,861; July 20; Gaz. vol. 216; p. 699.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Steel-sheathed box-car. No. 1,151,351; Aug. 24; Gaz. vol. 217; p. 1231.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Railway-car. No. 1,157,304; Oct. 19; Gaz. vol. 219; p. 748.
- Fowler, William E., Sr., assignor to The Fowler Car Company, Chicago, Ill. Double-deck car. No. 1,165,661; Dec. 28; Gaz. vol. 221; p. 1148.
- Fowler, William J., Philadelphia, Pa. Safety locking device. No. 1,157,523; Oct. 19; Gaz. vol. 219; p. 825.
- Fowler, William W., Washington, D. C. Making dental broaches. No. 1,160,706; Nov. 16; Gaz. vol. 220; p. 897.
- Fowlkes, Mary R. K., Selma, Ala. Window-cleaner. No. 1,163,398; Dec. 7; Gaz. vol. 221; p. 233.
- Fownes Brothers and Company. (See Kaufman and Marsden, assignors.)
- Fox, Ansley H., assignor, by mesne assignments, to Fox Pneumatic Shock-Absorber Co., Philadelphia, Pa. Shock-absorber for automobiles. No. 1,151,350; Aug. 24; Gaz. vol. 217; p. 1230.
- Fox, Austen H., New York, N. Y. Magnetic apparatus for railways. No. 1,162,463; Nov. 30; Gaz. vol. 220; p. 1604.
- Fox, Charles A. (See Rose and Fox.)
- Fox, Charles A., Chicago, Ill. Circuit-closer for hot-water heaters. No. 1,162,469; Nov. 30; Gaz. vol. 220; p. 1604.
- Fox, Charles B., Providence, R. I. Shoe-horn. No. 1,163,399; Dec. 7; Gaz. vol. 221; p. 233.
- Fox, Charles H., Cincinnati, Ohio. Clutch device. No. 1,145,888; July 13; Gaz. vol. 216; p. 339.
- Fox, Charles W., and J. L. Cypher, Connellsville, Pa. Nut-lock. No. 1,144,833; June 29; Gaz. vol. 215; p. 1436.
- Fox, Edward C., et al. (See Coboe, Wallace P., assignor.)
- Fox, Ellis W., Vancouver, British Columbia, Canada. Fire-protection device for cinematograph-machines. No. 1,130,079; Mar. 2; Gaz. vol. 212; p. 82.
- Fox, Francis N., Woodstock, Ohio. Electrical igniting device for automobile-lamps and the like. No. 1,139,759; May 18; Gaz. vol. 214; p. 790.
- Fox, Frederick, assignor of one-half to H. Woodley, Oakland, Cal. Life-boat. No. 1,147,158; July 20; Gaz. vol. 216; p. 804.
- Fox, George J., assignor to Philadelphia Sash Weight Works, Philadelphia, Pa. Sectional sash-weight. No. 1,162,906; Dec. 7; Gaz. vol. 221; p. 60.
- Fox, George M., Lexington, Nebr. Animal-trap. No. 1,160,872; Nov. 16; Gaz. vol. 220; p. 952.
- Fox, Henry C., Louisville, Ky. Vaporizer and burner. No. 1,145,135; July 6; Gaz. vol. 216; p. 56.
- Fox, Henry W. L., Boston, Mass. Lubricating device. No. 1,165,402; Dec. 28; Gaz. vol. 221; p. 1057.
- Fox, John C., Westmont, Pa., assignor to Cambria Steel Company, Metal-rolling. No. 1,147,713; July 27; Gaz. vol. 216; p. 1025.
- Fox, John F., Birmingham, Ala. Running-gear for cars. (Reissue.) No. 14,008; Nov. 9; Gaz. vol. 220; p. 634.
- Fox, John H., Berea, Ohio. Educational device. No. 1,136,663; Apr. 20; Gaz. vol. 213; p. 997.
- Fox, John H., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Leer. No. 1,165,585; Dec. 28; Gaz. vol. 221; p. 1119.
- Fox, Mac L., Columbiaville, Mich. Furnace. No. 1,154,502; Sept. 21; Gaz. vol. 218; p. 822.
- Fox, Mac L., assignor of one-fourth to W. B. Traver, Columbiaville, Mich. Combined colander, strainer, and steamer. No. 1,134,837; Apr. 6; Gaz. vol. 213; p. 272.
- Fox Pneumatic Shock-Absorber Co. (See Fox, Ansley H., assignor.)
- Fox, Thomas H. (See King and Fox.)
- Fox, Thomas H. (See King, Fox, and King.)
- Fox, Weber J., San Diego, Cal. Self-serving table and heater. No. 1,158,475; Nov. 2; Gaz. vol. 220; p. 22.
- Fox, William F., assignor of two-thirds to Kinemacolor Company of America, New York, N. Y. Projecting-machine. No. 1,166,120; Dec. 28; Gaz. vol. 221; p. 1308.
- Fox, William F., assignor of two-thirds to Kinemacolor Company of America, New York, N. Y. Photographic color-print and producing same. No. 1,166,121; Dec. 28; Gaz. vol. 221; p. 1308.
- Fox, William F., assignor of two-thirds to Kinemacolor Company of America, New York, N. Y. Photographic process. No. 1,166,122; Dec. 28; Gaz. vol. 221; p. 1309.
- Fox, William F., assignor to Kinemacolor Company of America, New York, N. Y. Photographic process. No. 1,166,123; Dec. 28; Gaz. vol. 221; p. 1310.
- Fox, William H., Minneapolis, Minn. Pad. No. 1,128,122; Feb. 9; Gaz. vol. 211; p. 552.
- Fox, William H., Yonkers, N. Y. Convertible sled and coaster. No. 1,135,889; Apr. 13; Gaz. vol. 213; p. 682.
- Fox, William R., Grand Rapids, Mich. Shifting and buffer mechanism for type-writing machines. No. 1,163,133; Dec. 7; Gaz. vol. 221; p. 139.
- Fox, William R., Grand Rapids, Mich. Back-spacer for type-writers. No. 1,163,134; Dec. 7; Gaz. vol. 221; p. 139.
- Fox, William R., and E. W. Cleveland, Grand Rapids, Mich.; said Cleveland assignor to said Fox. Saw-bench structure. No. 1,139,659; May 18; Gaz. vol. 214; p. 756.
- Foxboro Company, The. (See Bristol, Bennet B., assignor.)
- Foxboro Company, The. (See Bristol, Edgar H., assignor.)
- Foxboro Company, The. (See Bristol and Goodyear, assignors.)
- Foy, Albert, et al. (See Grove, Martin L., assignor.)
- Foy, John H., Philadelphia, Pa. Corner-form for concrete construction. No. 1,129,658; Feb. 23; Gaz. vol. 211; p. 1172.
- Foyle, Charles H., London, England. Packing-case. No. 1,124,122; Jan. 5; Gaz. vol. 210; p. 314.
- Fraaz, Joseph M., New York, N. Y. Line-adjuster for type-writer platens. No. 1,136,223; Apr. 20; Gaz. vol. 213; p. 840.
- Fradette, Donald F., assignor to L. E. Fradette, Buffalo, N. Y. Shoe-polishing device. No. 1,154,181; Sept. 21; Gaz. vol. 218; p. 712.
- Fradette, Louise E. (See Fradette, Donald F., assignor.)
- Fraedrich, Albert E., Greenhorn, Oreg. Coupling for traction-engines. No. 1,129,188; Feb. 23; Gaz. vol. 211; p. 1008.
- Fragoulis, Spyros, Boston, Mass. Cuspidor. No. 1,131,829; Mar. 16; Gaz. vol. 212; p. 761.
- Frahm, Carl A. (See Fausek and Frahm.)
- Frailey, Edwin V., Williamsport, Pa. Gage. No. 1,131,923; Mar. 16; Gaz. vol. 212; p. 794.
- Fraizer, Mark, Sherman, Okla. Seed-dropping plate for planters. No. 1,164,490; Dec. 14; Gaz. vol. 221; p. 659.
- Fraizer, Perry, and E. A. Nation, Newcastle, Ind. Dish-washer. No. 1,148,305; July 27; Gaz. vol. 216; p. 1235.
- Fraleigh, Harold H. (See Campbell, Sanford B., assignor.)
- Fralick, Syles R., Chicago, Ill. Electric-wiring fitting. No. 1,150,935; Aug. 24; Gaz. vol. 217; p. 1091.
- Frambach, Henry A., Cheboygan, Mich. Machine for beating paper-stock. No. 1,140,737; May 25; Gaz. vol. 214; p. 1166.
- Frambach, Mathew J. (See Graves, Frambach, and Graves.)
- Frame, Frank, Sawyer, Kans. Brake. No. 1,136,788; Apr. 20; Gaz. vol. 213; p. 1041.
- Frame, John, Searsport, Me. Indicator. No. 1,123,269; Jan. 5; Gaz. vol. 210; p. 23.
- Frame, John, Searsport, Me. Ship-scale. No. 1,135,104; Apr. 13; Gaz. vol. 213; p. 409.
- Frame, John, Searsport, Me. Mixer. No. 1,155,907; Oct. 5; Gaz. vol. 219; p. 203.
- Frame, S., et al. (See Henneuse, Clarence A., assignor.)
- Frampton, Reynolds C., Pittsburgh, Pa. Water-valve for instantaneous water-heaters. No. 1,138,859; May 11; Gaz. vol. 214; p. 439.

Alphabetical list of patentees—Continued.

- Frampton, Reynolds C., assignor to Pittsburg Water Heater Company, Pittsburgh, Pa. Instantaneous water-heater. No. 1,133,016; Mar. 23; Gaz. vol. 212; p. 1243.
- Franc, Sidney, New York, N. Y. Necktie. No. 1,135,170; Apr. 13; Gaz. vol. 213; p. 431.
- Francis, Annie B., Birmingham, Ala. Envelop. No. 1,125,633; Jan. 19; Gaz. vol. 210; p. 956.
- Francis, Charles. (See Beregh, Theodore J., assignor.)
- Francis, Charles A. (See Sachs and Francis.)
- Francis, Hugh R., Grand Junction, Colo. Fruit-grading machine. No. 1,139,510; May 18; Gaz. vol. 214; p. 703.
- Francis, Joseph, Wapanucka, Okla. Folding box. No. 1,163,652; Dec. 14; Gaz. vol. 221; p. 365.
- Francis, Meade C., et al. (See Moffitt, Allison, assignor.)
- Francis, William B., Prague, Okla. Party-line cut-out. No. 1,133,549; Mar. 30; Gaz. vol. 212; p. 1469.
- Francis, William P., Atlanta, Ga. Concrete construction. No. 1,143,527; June 15; Gaz. vol. 215; p. 930.
- Francis, William P., Atlanta, Ga. Floor structure. No. 1,158,196; Oct. 26; Gaz. vol. 219; p. 1122.
- Francis, William P., Atlanta, Ga. Reinforced masonry beam. No. 1,158,197; Oct. 26; Gaz. vol. 219; p. 1122.
- Franciscan Fathers of Arizona, The. (See Schmitz, Pamphilius, assignor.)
- Francisco, George D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Conveyer. No. 1,132,713; Mar. 23; Gaz. vol. 212; p. 1130.
- Francisco, Lynn M., Baldwinville, N. Y. Carbureter. No. 1,130,502; Mar. 2; Gaz. vol. 212; p. 232.
- Francis, Charles A., Yonkers, N. Y. Electrical push-button. No. 1,143,264; June 15; Gaz. vol. 215; p. 840.
- Frank, Emil J., Philadelphia, Pa. Circular-fashioning knitting-machine. No. 1,150,183; Aug. 17; Gaz. vol. 217; p. 772.
- Frankaerts, Emile, San Francisco, Cal. Garbage-can. No. 1,130,503; Mar. 2; Gaz. vol. 212; p. 233.
- Frankaerts, Emile, San Francisco, Cal. Door-holder. No. 1,157,376; Oct. 19; Gaz. vol. 219; p. 773.
- Frankie, William J., Highland Park, N. J. Turbine-wheel. No. 1,142,690; June 8; Gaz. vol. 215; p. 598.
- Frankie, William J., Highland Park, N. J. Flexible coupling. No. 1,155,227; Sept. 28; Gaz. vol. 218; p. 1098.
- Frankes, Arthur H., Tottenham, England. Gas-lighting apparatus. No. 1,124,123; Jan. 5; Gaz. vol. 210; p. 314.
- Frano-American Rubber Company. (See Vecchini, Dominique, assignor.)
- Franczek, Adam, et al. (See Tomaszewski, Joseph C., assignor.)
- Frandsen, Niels C., Copenhagen, Denmark, assignor to Schmidt's Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Making U-shaped pipe-bends. No. 1,133,017; Mar. 23; Gaz. vol. 212; p. 1244.
- Frandsen, Niels C., Copenhagen, Denmark, assignor to Schmidt's Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Die for U-shaped pipe-bends. No. 1,164,638; Dec. 21; Gaz. vol. 221; p. 751.
- Frank, Frank, Chugwater, Wyo. Fire-alarm. No. 1,124,410; Jan. 12; Gaz. vol. 210; p. 465.
- Frane, Michael D., Cleveland, Ohio. Wrist-pin fastening. No. 1,139,962; May 18; Gaz. vol. 214; p. 861.
- Frane-Shore Company, The. (See Shore, William E., assignor.)
- Frank Adam Electric Company. (See Johanningmyer, Harry F., assignor.)
- Frank, Albert S., et al. (See Negraval, Louis A., assignor.)
- Frank B. Cook Company. (See Cook, Frank B., assignor.)
- Frank B. Cook Company. (See Corwin, Elmer R., assignor.)
- Frank B. Cook Company. (See Johnson, Morton L., assignor.)
- Frank, Carl, assignor of one-half to L. A. Welch, Jr., Schenectady, N. Y. Safety-faucet. No. 1,153,863; Sept. 14; Gaz. vol. 218; p. 569.
- Frank, Crosby F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,159,205; Nov. 2; Gaz. vol. 220; p. 277.
- Frank, Edward H., assignor of one-half to E. H. England, Centralia, Ill. Automobile-jack. No. 1,147,714; July 27; Gaz. vol. 216; p. 1025.
- Frank, Edward H., assignor of thirty-three one-hundredths to J. W. Frank, Centralia, Ill. Railway-car-braking means for gravity-yards and the like. No. 1,157,622; Oct. 19; Gaz. vol. 219; p. 855.
- Frank, Frederick W. (See Drapalik, Alfred J., assignor.)
- Frank, George P., Roselle, N. J. Hose-coupling. No. 1,163,995; Dec. 14; Gaz. vol. 221; p. 486.
- Frank, George W. (See Brabson, Tom, assignor.)
- Frank Holton & Co. (See Jackson, Thomas L., assignor.)
- Frank, Isaac W., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Shears. No. 1,140,897; May 25; Gaz. vol. 214; p. 1225.
- Frank, John P., Danville, Ky. Skid. No. 1,154,986; Sept. 28; Gaz. vol. 218; p. 1015.
- Frank, John W. (See Frank, Edward H., assignor.)
- Frank, Joseph, Pittston, Pa. Insecticide-distributor. No. 1,140,453; May 25; Gaz. vol. 214; p. 1069.
- Frank, Lawrence, Galveston, Tex. Propeller-pitchometer. No. 1,140,260; May 18; Gaz. vol. 214; p. 966.
- Frank, Leonhard, Berlin, and G. Fendler, Steglitz, near Berlin, Germany. Rendering tetrachlorid of carbon and other halogen hydrocarbons, or hydrocarbons soluble in dilute solutions of soap. No. 1,165,498; Dec. 28; Gaz. vol. 221; p. 1090.
- Frank, Leslie C., Washington, D. C. Purifying sewage or other wastes and apparatus therefor. No. 1,139,024; May 11; Gaz. vol. 214; p. 498.
- Frank, Leslie C., Washington, D. C. Sewage disinfection. No. 1,141,050; May 25; Gaz. vol. 214; p. 1277.
- Frank, Louis, et al. (See Walker, Daniel P., assignor.)
- Frank M. Randall Manufacturing Corporation. (See Stern, Philip K., assignor.)
- Frank Mossberg Company. (See Mossberg, Frank, assignor.)
- Frank, Norvin. (See Lobel and Frank.)
- Frank, Samuel, assignor to Side Walk Light Co. of America, Philadelphia, Pa. Sidewalk-door. No. 1,159,919; Nov. 9; Gaz. vol. 220; p. 565.
- Frank W. Whitcher Company. (See Cahill, Henry D., assignor.)
- Frank, William C., Johnstown, Pa. Metallic railway-tie. No. 1,135,171; Apr. 13; Gaz. vol. 213; p. 431.
- Frank, William E., St. Louis, Mo. Bed-spring. No. 1,163,905; Dec. 14; Gaz. vol. 221; p. 455.
- Frank, William E., assignor to Foster Bros. Mfg. Co., St. Louis, Mo. Trundle-bed. No. 1,133,848; Mar. 30; Gaz. vol. 212; p. 1577.
- Frank, William J., Webster Groves, Mo. Heating device. No. 1,131,226; Mar. 9; Gaz. vol. 212; p. 514.
- Frank, Adolf, Grunewald, and E. Ehrhardt, Pankow, near Berlin, assignors to Siemens & Halske A. G., Berlin, Germany. Telegraphic type-printing receiver. No. 1,126,745; Feb. 2; Gaz. vol. 211; p. 28.
- Frank, August H., St. Louis, Mo. Apparatus for purifying oil. No. 1,142,512; June 8; Gaz. vol. 215; p. 540.
- Frank, Edwin, Chicago, Ill. Butter-cutting machine. No. 1,135,005; Apr. 13; Gaz. vol. 213; p. 374.
- Frank, Edwin, Chicago, Ill. Vegetable-mashing machine. No. 1,158,198; Oct. 26; Gaz. vol. 219; p. 1123.
- Frank, Emil, Long Island City, N. Y. Combined shade and curtain bracket. No. 1,162,228; Dec. 7; Gaz. vol. 221; p. 173.
- Frank, Emil, Long Island City, N. Y. Ratchet-wrench. No. 1,163,229; Dec. 7; Gaz. vol. 221; p. 173.
- Frankel, Frederick, New York, N. Y. Beauty-mark. No. 1,140,975; May 25; Gaz. vol. 214; p. 1253.
- Frankel, Siegmund, Biala, Austria-Hungary. Bottle-stopper. No. 1,163,520; Dec. 7; Gaz. vol. 221; p. 275.
- Frankel, Siegmund, Vienna, Austria-Hungary. Manufacture of diastase. No. 1,129,387; Feb. 23; Gaz. vol. 211; p. 1078.
- Frankenberg, Alfred, assignor to J. L. Clark Manufacturing Company, Rockford, Ill. Sifter-top closure. No. 1,153,378; Sept. 14; Gaz. vol. 218; p. 397.
- Frankenberg, Alfred, assignor to J. L. Clark Manufacturing Company, Rockford, Ill. Sifter-top closure. No. 1,153,379; Sept. 14; Gaz. vol. 218; p. 398.
- Frankenburg, Sydney, and F. H. Betteridge, Salford, England. Canvas shoe. No. 1,160,873; Nov. 16; Gaz. vol. 220; p. 953.
- Frankenfield, Samuel B., Stroudsburg, Pa. Hat pin and fastener. No. 1,141,179; June 1; Gaz. vol. 215; p. 31.
- Frankenheim, Aaron. (See Crowe and Frankenheim.)
- Frankforter, George B. (See Hovland and Frankforter.)
- Franklin, B. A., trustee. (See Bovee, Ransom Y., assignor.)
- Franklin, Benjamin, Chicago, Ill. Game apparatus. No. 1,146,060; July 13; Gaz. vol. 216; p. 400.
- Franklin, Benjamin, San Diego, Cal. Tile. No. 1,155,559; Oct. 5; Gaz. vol. 219; p. 81.
- Franklin Brass Manufacturing Company. (See Hirst, Franklin G., assignor.)
- Franklin, Charles S., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Aerial conductor. No. 1,141,387; June 1; Gaz. vol. 215; p. 108.
- Franklin, George C. (See Keller, Isaac B., assignor.)
- Franklin, Hubert F., assignor to Reliance Ball Bearing Door Hanger Company, New York, N. Y. Door-hanger. No. 1,130,159; Mar. 2; Gaz. vol. 212; p. 110.
- Franklin, John F., Picayune, and B. S. Cowell, Meridian, Miss. Cushioned wheel. No. 1,129,860; Mar. 2; Gaz. vol. 212; p. 10.
- Franklin, Joshua, Pyriton, Ala. Forage-curing device. No. 1,148,894; Aug. 3; Gaz. vol. 217; p. 145.
- Franklin, Mason B., Providence, R. I. Window-shade pull. No. 1,166,355; Dec. 28; Gaz. vol. 221; p. 1395.
- Franklin Process Company. (See Wood, John T., assignor.)
- Franklin Railway Supply Company. (See Elvin and Mohun, assignors.)
- Franklin Railway Supply Company. (See Martin, Frederick W., assignor.)
- Franklin, Robert M., Galveston, Tex. Trap-net. No. 1,143,758; June 22; Gaz. vol. 215; p. 1034.
- Franklin, Robert M., Galveston, Tex. Landing-net. No. 1,143,759; June 22; Gaz. vol. 215; p. 1035.
- Franklin, Robert M., Galveston, Tex. Crustacean-trap. No. 1,146,698; July 13; Gaz. vol. 216; p. 623.

Alphabetical list of patentees—Continued.

- Franklin, William S., South Bethlehem, Pa. Raising and purifying water. No. 1,124,600; Jan. 12; Gaz. vol. 210; p. 534.
- Franklin, William S., South Bethlehem, Pa. Apparatus for raising and purifying water. No. 1,124,601; Jan. 12; Gaz. vol. 210; p. 534.
- Franklin, William S., South Bethlehem, Pa. Swimming-pool. No. 1,125,301; Jan. 19; Gaz. vol. 210; p. 819.
- Franquist, Gustave E., New Brunswick, N. J. Piston. No. 1,153,902; Sept. 21; Gaz. vol. 218; p. 617.
- Frantz, Benjamin F. (See Holben and Frantz.)
- Frantz, Charles T., assignor to F. P. Gorin, Chicago, Ill. Type-writing machine. No. 1,124,219; Jan. 5; Gaz. vol. 210; p. 349.
- Frantz, Hiram A., Cherryville, Pa., assignor of one-half to B. Fish, Sanford, Fla. Hay-drier. No. 1,161,301; Nov. 23; Gaz. vol. 220; p. 1152.
- Frantz, John R., assignor to E. B. Hayes Machine Company, Oshkosh, Wis. Dowelling-machine. No. 1,137,854; May 4; Gaz. vol. 214; p. 46.
- Frantz Manufacturing Company. (See Frantz, Peter, assignor.)
- Frantz, Peter, assignor to Frantz Manufacturing Company, Sterling, Ill. Door-hanger. No. 1,165,329; Dec. 21; Gaz. vol. 221; p. 991.
- Frantz, Roland M. (See Ilopper, Bert A., assignor.)
- Frantzen, Nils P., Gowrie, Iowa. Grader. No. 1,145,301; July 6; Gaz. vol. 216; p. 113.
- Franz Bauer & Söhne, A.-G. (See Bauer, Edwin, assignor.)
- Franz, C. H. (See Zsuzsits, Vinzenz, assignor.)
- Franz, Ferdinand. (See Thompson, Luther C., assignor.)
- Franz, Frank, and E. R. Day, Wallace, Idaho. Ore-jlg. No. 1,160,502; Nov. 16; Gaz. vol. 220; p. 820.
- Franz, Gustav A. (See Smith and Franz.)
- Franz, Gustav A., assignor to Jackson Cushion Spring Company, Jackson, Mich. Spring structure. No. 1,133,949; Mar. 30; Gaz. vol. 212; p. 1609.
- Franz, Gustav A., assignor to Jackson Cushion Spring Company, Jackson, Mich. Spring structure. No. 1,150,754; Aug. 17; Gaz. vol. 217; p. 970.
- Franz, Louis F., assignor to The St. Clair Manufacturing Company, Dayton, Ohio. Fixture for gas-lamps. No. 1,145,188; July 6; Gaz. vol. 216; p. 74.
- Franz, Paul H., Dolgeville, N. Y., assignor to Daniel Green Felt Shoe Company, Boston, Mass. Friction-surface and forming same. No. 1,155,054; Sept. 28; Gaz. vol. 218; p. 1039.
- Franzen, Nicklas, Walton, assignor of one-half to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Machine for making wire-glass. No. 1,135,370; Apr. 13; Gaz. vol. 213; p. 499.
- Franzen, Nicklas, Walton, assignor of one-half to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Making wire-glass. No. 1,135,371; Apr. 13; Gaz. vol. 213; p. 499.
- Franzen, Nicklas, Floreffe, assignor of one-half to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Machine and method for making wire-glass. No. 1,135,937; Apr. 13; Gaz. vol. 213; p. 697.
- Franzheim, George W., Pittsburgh, Pa. Heating apparatus. No. 1,139,660; May 18; Gaz. vol. 214; p. 756.
- Franzmann, Peter A. (See Waller, Charles W., assignor.)
- Franzmeier, Louis, Newton, Wis. Windrower. No. 1,133,550; Mar. 30; Gaz. vol. 212; p. 1469.
- Frary, Chauncey M., Warsaw, Ind. Window-trough. No. 1,154,182; Sept. 21; Gaz. vol. 218; p. 712.
- Frary, Edward N. and E. A., South Deerfield, Mass. Gas controlling and igniting apparatus. No. 1,123,722; Jan. 5; Gaz. vol. 210; p. 179.
- Frary, Ernest A. (See Frary, Edward N. and E. A.)
- Frary, Francis C., Minneapolis, Minn. Producing sulfids of phosphorus. No. 1,153,054; Sept. 7; Gaz. vol. 218; p. 245.
- Frary, Francis C., Minneapolis, and S. N. Temple, St. Paul, Minn.; said Temple assignor of one-sixth of the whole right to said Frary. Hard lead alloys. No. 1,158,671; Nov. 2; Gaz. vol. 220; p. 93.
- Frary, Francis C., Minneapolis, and S. N. Temple, St. Paul, Minn.; said Temple assignor of one-sixth of the whole right to said Frary. Lead alloys containing a plurality of the metals of the alkaline earths. No. 1,158,672; Nov. 2; Gaz. vol. 220; p. 93.
- Frary, Francis C., Minneapolis, and S. N. Temple, St. Paul, Minn.; said Temple assignor of one-sixth of the whole right to said Frary. Hard lead alloys. No. 1,158,673; Nov. 2; Gaz. vol. 220; p. 93.
- Frary, Francis C., Minneapolis, and S. N. Temple, St. Paul, Minn.; said Temple assignor of one-sixth of the whole right to said Frary. Composition of hard lead alloys. No. 1,158,674; Nov. 2; Gaz. vol. 220; p. 93.
- Frary, Francis C., Minneapolis, and S. N. Temple, St. Paul, Minn.; said Temple assignor of one-sixth of the whole right to said Frary. Composition of hard lead alloys. No. 1,158,675; Nov. 2; Gaz. vol. 220; p. 93.
- Frasch, Hans A., New York, N. Y. Process and apparatus for producing hydroxids of metals by means of ammonia. No. 1,135,785; Apr. 13; Gaz. vol. 213; p. 644.
- Frasch, Herman, assignor to United Salt Company, Cleveland, Ohio. Apparatus for the manufacture of salt. No. 1,125,998; Jan. 26; Gaz. vol. 210; p. 1099.
- Frasch, Herman, New York, N. Y., assignor, by mesne assignments, to The Union Sulphur Company, Jersey City, N. J. Mining sulfur. No. 1,152,499; Sept. 7; Gaz. vol. 218; p. 42.
- Fraser, Donnelly P., New York, N. Y. Radiator thermometer-cap. No. 1,154,503; Sept. 21; Gaz. vol. 218; p. 822.
- Fraser, George H. (See Hall and Fraser.)
- Fraser, George H., New York, N. Y. Separator. No. 1,165,865; Dec. 28; Gaz. vol. 221; p. 1218.
- Fraser, George H., New York, N. Y. Separator. No. 1,165,866; Dec. 28; Gaz. vol. 221; p. 1218.
- Fraser, George H., New York, N. Y. Separator. No. 1,165,867; Dec. 28; Gaz. vol. 221; p. 1219.
- Fraser, George H., New York, N. Y. Separator. No. 1,165,868; Dec. 28; Gaz. vol. 221; p. 1219.
- Fraser, George H., New York, N. Y. Separator. No. 1,165,869; Dec. 28; Gaz. vol. 221; p. 1220.
- Fraser, George H., New York, N. Y. Sifter or screen. No. 1,165,870; Dec. 28; Gaz. vol. 221; p. 1220.
- Fraser, James M., Empress, Alberta, Canada. Mud-grip for automobiles. No. 1,140,028; May 18; Gaz. vol. 214; p. 886.
- Fraser, James S., Charleroi, Pa. Twyer. No. 1,161,206; Nov. 23; Gaz. vol. 220; p. 1118.
- Fraser, James S., assignor of one-half to I. C. Moulton, Boston, Mass. Safety appliance for submarine vessels. No. 1,139,409; May 11; Gaz. vol. 214; p. 630.
- Fraser, Spencer L., and A. E. Jacobson, Minneapolis, Minn. Concrete-construction apparatus. No. 1,165,586; Dec. 28; Gaz. vol. 221; p. 1120.
- Fraser-Tufts Manufacturing Company. (See Fraser, Warren F., assignor.)
- Fraser, Warren F., assignor to Fraser-Tufts Manufacturing Company, Boston, Mass. Car-door seal. No. 1,141,895; June 1; Gaz. vol. 215; p. 283.
- Fratt, Charles H., Florence, Nebr. Tiling implement. No. 1,149,436; Aug. 10; Gaz. vol. 217; p. 442.
- Frauenheim, Joseph A., Zeilenople, assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Compound bolt. No. 1,135,515; Apr. 13; Gaz. vol. 213; p. 550.
- Frauenheim, Joseph A., Zeilenople, assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Making compound bolts. No. 1,135,516; Apr. 13; Gaz. vol. 213; p. 550.
- Fraver, Lewis C., and I. E. Williams, Dayton, Ohio. Match-box. No. 1,143,113; June 15; Gaz. vol. 215; p. 787.
- Frawley, James B., assignor to Pittsfield Spark Coil Company, Pittsfield, Mass. Magneto-electric machine. No. 1,160,995; Nov. 16; Gaz. vol. 220; p. 997.
- Fray, Lee A., and C. O. Howard, assignors to The F. & H. Wire Wheel Company, Columbus, Ohio. Vehicle-wheel. No. 1,128,595; Feb. 16; Gaz. vol. 211; p. 764.
- Frazee, Jackson F., assignor of one-half to H. C. Nielsen, San Francisco, Cal. Indicator for vehicles. No. 1,157,157; Oct. 19; Gaz. vol. 219; p. 695.
- Frazer, Alonzo, St. Louis, Mo. Shoe. No. 1,134,189; Apr. 6; Gaz. vol. 213; p. 38.
- Frazer, George E., Flint, Mich. Valve for internal-combustion engines. No. 1,139,661; May 18; Gaz. vol. 214; p. 756.
- Frazer, George E., Flint, Mich. Valve for internal-combustion engines. No. 1,145,008; July 6; Gaz. vol. 216; p. 10.
- Frazer, George N., Eugene, Oreg. Hydrant. No. 1,146,617; July 13; Gaz. vol. 216; p. 596.
- Frazer, James M., Weston, Mo. Wheel-tire-marking tool. No. 1,143,821; June 22; Gaz. vol. 215; p. 1056.
- Frazer, William A., Los Angeles, Cal. Automobile steering-column. No. 1,145,761; July 6; Gaz. vol. 216; p. 275.
- Frazer, William B., trustee. (See Bull, Robert W., assignor.)
- Frazier, Edward S., and A. Gustafson, Aurora, Ill., assignors to S. D. Young, trustee, Grand Rapids, Mich. Display-rack. No. 1,138,600; May 4; Gaz. vol. 214; p. 306.
- Frazier, Simon F., Quenemo, Kans. Broom. No. 1,164,801; Dec. 21; Gaz. vol. 221; p. 808.
- Frazier, William W., Youngstown, Ohio. Rolling-mill. No. 1,133,551; Mar. 30; Gaz. vol. 212; p. 1469.
- Frazino, William H., Modesto, Cal. Shock-absorber. No. 1,153,300; Sept. 14; Gaz. vol. 218; p. 368.
- Freas, Samuel T., Trenton, N. J., assignor to Henry Diss-ton & Sons, Incorporated, Philadelphia, Pa. Detachable tooth for metal saws. No. 1,148,374; July 27; Gaz. vol. 216; p. 1261.
- Freas, Thomas E., New York, N. Y., assignor to V. Weber & Company, Chicago, Ill. Heating system for constant-temperature baths. No. 1,165,958; Dec. 28; Gaz. vol. 221; p. 1250.
- Frieborg, Charles, Kankakee, assignor to Price and Teeple Piano Company, Chicago, Ill. Automatic musical instrument. No. 1,127,426; Feb. 9; Gaz. vol. 211; p. 307.
- Fred H. Knapp Company, The. (See Knapp, Frederick H., assignor.)
- Fred H. Knapp Company. (See Knapp and Leister, assignors.)
- Fred Harvey, Inc. (See Clough, Frank, assignor.)
- Fred Medart Manufacturing Company. (See Medart, Philip S., assignor.)

Alphabetical list of patentees—Continued.

- Frede, Charles F. (See Westlake and Frede.)
 Frede, Charles F., assignor to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck-centering device for locomotives. No. 1,152,164; Aug. 31; Gaz. vol. 217; p. 1558.
 Frede, Charles F., assignor to Commonwealth Steel Company, St. Louis, Mo. Charging-car frame. No. 1,165,959; Dec. 28; Gaz. vol. 221; p. 1250.
 Frede, Charles F., St. Louis, Mo., and A. J. Dinkel, Granite City, Ill., assignors to Balanced Chute Dump Car Company, St. Louis, Mo. Dump-car-operating mechanism. No. 1,126,972; Feb. 2; Gaz. vol. 211; p. 108.
 Frede, Charles F., and C. T. Westlake, assignors to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck for locomotives. No. 1,160,874; Nov. 16; Gaz. vol. 220; p. 953.
 Frederick, Clarence H., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Fabric-making machine. No. 1,148,766; Aug. 3; Gaz. vol. 217; p. 102.
 Frederick, Clarence H., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Bed fabric. No. 1,152,500; Sept. 7; Gaz. vol. 218; p. 42.
 Frederick, Clarence H., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Bed fabric. No. 1,152,621; Sept. 7; Gaz. vol. 218; p. 88.
 Frederick, John S., et al. (See Kinnard, Robert M., assignor.)
 Frederick, Noah, Portland, Oreg. Buggy-top-bow protector. No. 1,131,357; Mar. 9; Gaz. vol. 212; p. 559.
 Frederickson, Clayton E., assignor of one-half to G. C. Stenger, Chicago, Ill. Two-cylinder two-cycle internal-combustion engine. No. 1,162,345; Nov. 30; Gaz. vol. 220; p. 1561.
 Frederickson, Herman, Mariners Harbor, N. Y. Heating stove and furnace. No. 1,144,117; June 22; Gaz. vol. 215; p. 1161.
 Frederickson, James S., Vallejo, Cal. Torch. No. 1,138,549; May 4; Gaz. vol. 214; p. 289.
 Frederickson, Lars J., Kansas City, Mo. Tire-core. No. 1,160,272; Nov. 16; Gaz. vol. 220; p. 740.
 Frederiksen, Victor, Roanoke, Va. Picture-slide controller for stereopticons. No. 1,141,456; June 1; Gaz. vol. 215; p. 132.
 Fredland, William S., Kansas City, Mo. Button and buttonhole marking device. No. 1,140,304; May 18; Gaz. vol. 214; p. 981.
 Free, John R., Salt Lake City, Utah. Line-end indicator and lock for type-writers. No. 1,136,949; Apr. 27; Gaz. vol. 213; p. 1134.
 Freebey, Mordecai P., Los Angeles, Cal. Seal for bottles and the like containers. No. 1,154,853; Sept. 28; Gaz. vol. 218; p. 970.
 Freeble, Thomas M., Rochester, Pa. Safety apparatus for railways. No. 1,155,476; Oct. 5; Gaz. vol. 219; p. 53.
 Freeble, Thomas M., Rochester, Pa. Safety apparatus for railway-trains. No. 1,155,478; Oct. 5; Gaz. vol. 219; p. 54.
 Freeble, Thomas M., Rochester, Pa. Safety apparatus for railways. No. 1,159,578; Nov. 9; Gaz. vol. 220; p. 440.
 Freeble, Thomas M., Rochester, assignor of one-half to R. M. Kaufmann, Pittsburgh, Pa. Manual actuator for railway-signals. No. 1,155,477; Oct. 5; Gaz. vol. 219; p. 54.
 Freeburg, Charles H., Erie, Pa. Drinking-cup. No. 1,151,869; Aug. 31; Gaz. vol. 217; p. 1457.
 Freeburg, Frederick C., Gualala, Cal. Shoe-fastener. No. 1,166,344; Dec. 28; Gaz. vol. 221; p. 1390.
 Freeburn, Thomas L., Winchester, Mass. Tally device. No. 1,154,854; Sept. 28; Gaz. vol. 218; p. 970.
 Freed, Yellis C., Roversford, Pa. Cage for roller-bearings. No. 1,147,497; July 20; Gaz. vol. 216; p. 923.
 Freedman, Hyman and N. M., Chicago, Ill. Couch or davenport bed. No. 1,131,358; Mar. 9; Gaz. vol. 212; p. 559.
 Freedman, Hyman and N. M., Chicago, Ill. Davenport-bed. No. 1,131,359; Mar. 9; Gaz. vol. 212; p. 559.
 Freedman, Nathan M. (See Freedman, Hyman and N. M.)
 Freedman, Paul L., New York, N. Y. Game apparatus. No. 1,141,180; June 1; Gaz. vol. 215; p. 31.
 Freeland, George W., Moline, Ill., assignor to Williams, White & Company, Recording mechanism. No. 1,152,804; Sept. 7; Gaz. vol. 218; p. 155.
 Freeman, Arthur J., Petaluma, Cal. Sheet-conveyer. No. 1,133,630; Mar. 30; Gaz. vol. 212; p. 1498.
 Freeman, Benjamin F., Long Island City, N. Y. Packet-fastener. No. 1,129,082; Feb. 23; Gaz. vol. 211; p. 970.
 Freeman, Dorothy, administratrix. (See Freeman, Samuel S.)
 Freeman, Edgar H., Trenton, N. J. Separable-husk-socket fitting. No. 1,145,361; July 6; Gaz. vol. 216; p. 134.
 Freeman, Edgar H., Trenton, N. J., assignor, by mesne assignments, to Trenton Porcelain Company. Divided insulator. No. 1,147,498; July 20; Gaz. vol. 216; p. 924.
 Freeman, Edward W. (See Matthews, Freeman, and Bate-man.)
 Freeman, Frank E. (See Miller and Freeman.)
 Freeman, Frank L., Tecumseh, Nebr. Four-wheel driving mechanism. No. 1,145,762; July 6; Gaz. vol. 216; p. 275.
 Freeman, Fred P., Richland, Wash. Pressure-drop alarm for tires. No. 1,144,834; June 29; Gaz. vol. 215; p. 1437.
 Freeman, Harry B. (See Brooks and Freeman.)
 Freeman, Herbert H., Minneapolis, Minn. Clothes-line holder. No. 1,162,763; Dec. 7; Gaz. vol. 221; p. 11.
 Freeman, Horace, Vancouver, British Columbia, Canada. Production of alkali-metal cyanid. No. 1,143,952; June 22; Gaz. vol. 215; p. 1102.
 Freeman, Horace L., New York, N. Y., assignor to The Post Dater Stamp Co., Wilmington, N. C. Dating-stamp. No. 1,165,662; Dec. 28; Gaz. vol. 221; p. 1149.
 Freeman, James D., assignor of one-third to J. F. Muffley, Kalamazoo, Mich. Button-remover. No. 1,153,904; Sept. 21; Gaz. vol. 218; p. 617.
 Freeman, John O., Greenville, S. C. Metallic railway-tie. No. 1,130,586; Mar. 2; Gaz. vol. 212; p. 261.
 Freeman, Joseph W., assignor to The Everlasting Combined Casket & Vault Company, Columbus, Ohio. Combined casket and grave-vault. No. 1,128,865; Feb. 16; Gaz. vol. 211; p. 858.
 Freeman, Ladbroke H., assignor to The Guggenheim Laundry Machinery Company, Cleveland, Ohio. Ironing-press. No. 1,141,181; June 1; Gaz. vol. 215; p. 32.
 Freeman, Ladbroke H., assignor to The Guggenheim Laundry Machinery Company, Cleveland, Ohio. Bosom-board. No. 1,144,118; June 22; Gaz. vol. 215; p. 1162.
 Freeman, Louis, Montreal, Quebec, Canada. Skating-overshoe. No. 1,160,159; Nov. 16; Gaz. vol. 220; p. 701.
 Freeman, Louis G., Cincinnati, Ohio. Heel-seat rounding and rinding mechanism. No. 1,139,025; May 11; Gaz. vol. 214; p. 498.
 Freeman, Lowell C., Detroit, Mich. Lubricating apparatus. No. 1,137,749; May 4; Gaz. vol. 214; p. 10.
 Freeman, Lowell C., Detroit, Mich. Governor for explosion-engines. No. 1,162,047; Nov. 30; Gaz. vol. 220; p. 1457.
 Freeman, Lowell C., Detroit, Mich. Vehicle-brake. No. 1,162,048; Nov. 30; Gaz. vol. 220; p. 1457.
 Freeman, Malon E., assignor of one-half to J. Hamilton, Colby, Kans. Cutting apparatus. No. 1,124,124; Jan. 5; Gaz. vol. 210; p. 315.
 Freeman, Malon E., Colby, assignor of one-fourth to L. C. Howard and one-fourth to F. Casselman, Ialford, Kans. Rail-joint. No. 1,146,862; July 20; Gaz. vol. 216; p. 699.
 Freeman, Rufus A., Flushing, N. Y., assignor to The Autopress Company. Sheet-feeding machine. No. 1,156,357; Oct. 12; Gaz. vol. 219; p. 383.
 Freeman, Rufus A., Flushing, assignor to The Autopress Company, New York, N. Y. Delivery mechanism. No. 1,164,802; Dec. 21; Gaz. vol. 221; p. 808.
 Freeman, Samuel S., deceased, Oakland, Cal.; D. Freeman, administratrix. Necktie. No. 1,130,587; Mar. 2; Gaz. vol. 212; p. 262.
 Freeman, Victor E. (See Funk and Freeman, assignors.)
 Freeman, Victor E. (See Whitaker, Louis I., assignor.)
 Freeman, William F., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Garment-hanger. No. 1,160,060; Nov. 9; Gaz. vol. 220; p. 611.
 Freeman, Wood, Seattle, Wash. Grease-gun. No. 1,127,751; Feb. 9; Gaz. vol. 211; p. 420.
 Freer, Henry H., Leicester, England, assignor, by mesne assignments, to Boston Machine Works Company, Lynn, Mass. Folding-machine. No. 1,161,040; Nov. 23; Gaz. vol. 220; p. 1057.
 Freer, James S., Rutherford, assignor of one-half to E. Aherle, Nutley, N. J. Making lithographs. No. 1,128,436; Feb. 16; Gaz. vol. 211; p. 709.
 Freer, Phelps M., Detroit, Mich., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Gage. No. 1,166,124; Dec. 28; Gaz. vol. 221; p. 1310.
 Freese, Carl J., Elyria, Ohio. Paper-box handle. No. 1,141,789; June 1; Gaz. vol. 215; p. 247.
 Freese, Claude H., Los Angeles, Cal. Fumigator. No. 1,162,690; Nov. 30; Gaz. vol. 220; p. 1675.
 Freese, Diedrick J., Oklahoma, Okla. Fuel-economizer. No. 1,124,411; Jan. 12; Gaz. vol. 210; p. 465.
 Freese, Etson L., New York, N. Y. Tree-trunk saw. No. 1,132,251; Mar. 16; Gaz. vol. 212; p. 915.
 Freestone, Joseph T., Liverpool, England. Washing compound. No. 1,144,186; June 22; Gaz. vol. 215; p. 1186.
 Freet, William O., Hackensack, N. J., assignor to Steynis Ozone Company. Ozone-generator. No. 1,157,859; Oct. 26; Gaz. vol. 219; p. 1003.
 Freeto, George L., Mechanicsburg, Ill. Acetylene-generator. No. 1,141,182; June 1; Gaz. vol. 215; p. 32.
 Freeze, Jonathan R., Middletown, Ohio, assignor to The American Rolling Mill Company, Newark, N. J. Metallic crate. No. 1,146,149; July 13; Gaz. vol. 216; p. 431.
 Freid, John, New York, N. Y. Receptacle for garments, clothing, and the like. No. 1,133,018; Mar. 23; Gaz. vol. 212; p. 1244.
 Frehofer, Charles F., Philadelphia, Pa. Baking apparatus. No. 1,127,224; Feb. 2; Gaz. vol. 211; p. 197.
 Freise, Albert M., San Francisco, Cal. Wall-seat. No. 1,132,004; Mar. 16; Gaz. vol. 212; p. 824.

Alphabetical list of patentees—Continued.

- Freistadter, Jacob, Waltham, Mass. Balance-staff for watches. No. 1,136,595; Apr. 20; Gaz. vol. 213; p. 973.
- Freistadter, Jacob, Waltham, Mass. Hair-spring collet for watches. No. 1,136,950; Apr. 27; Gaz. vol. 213; p. 1135.
- Frémenville, Charles A. C. de, Paris, France. Machining metals and other very hard and highly-resilient materials. No. 1,156,892; Oct. 19; Gaz. vol. 219; p. 601.
- French, Alfred W., Piqua, Ohio. Method of and apparatus for cooking oil-bearing material. No. 1,140,808; May 25; Gaz. vol. 214; p. 1191.
- French, Alfred W., Piqua, Ohio. Cooker for oil-bearing material and the like. No. 1,153,212; Sept. 14; Gaz. vol. 218; p. 336.
- French, Alfred W., Piqua, Ohio. Apparatus for and method of cooking oil-bearing material. No. 1,158,476; Nov. 2; Gaz. vol. 220; p. 22.
- French, Alfred W., Piqua, Ohio. Oil-expressing apparatus. No. 1,158,797; Nov. 2; Gaz. vol. 220; p. 136.
- French, Alfred W., Piqua, Ohio. Gate-operating mechanism for meal-cookers and analogous apparatus. No. 1,161,041; Nov. 23; Gaz. vol. 220; p. 1058.
- French, Edward H., Smethport, Pa. Producing pyroglutamic acid. No. 1,150,589; Aug. 17; Gaz. vol. 217; p. 914.
- French, Edwin F., Los Angeles, Cal. Table for garment-pressing. No. 1,144,800; June 22; Gaz. vol. 215; p. 1226.
- French, Edwin F., Los Angeles, Cal. Garment-pressing machine. No. 1,150,355; Aug. 17; Gaz. vol. 217; p. 833.
- French, Elsamur S., and W. H. Carson, Denver, Colo.; said Carson assignor to said French. Easel. No. 1,141,704; June 1; Gaz. vol. 215; p. 219.
- French, Frank A., Pittsburgh, Pa. Repairman's truck. No. 1,136,327; Apr. 20; Gaz. vol. 213; p. 877.
- French, George H., Lake Centre, Saskatchewan, Canada. Grain-pickling device. No. 1,140,509; May 25; Gaz. vol. 214; p. 1090.
- French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,156,681; Oct. 12; Gaz. vol. 219; p. 498.
- French, Henry T., Wainwright, Alberta, Canada. Poison-distributor. No. 1,145,889; July 13; Gaz. vol. 216; p. 339.
- French, Horace E., Newcastle, Ind. Pedal connection. No. 1,132,081; Mar. 16; Gaz. vol. 212; p. 851.
- French, James B., Carthage, Mo. Cushioning-piston for power-hammers or the like. No. 1,145,983; July 13; Gaz. vol. 216; p. 372.
- French, James C., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Traveling-bucket apparatus. No. 1,161,302; Nov. 23; Gaz. vol. 220; p. 1152.
- French, James W. (See Barr, Stroud, and French.)
- French, John R., assignor to Lacy Manufacturing Company, Los Angeles, Cal. Pipe-covering machine. No. 1,151,096; Aug. 24; Gaz. vol. 217; p. 1144.
- French, Morgan C., Yampa, Colo. Brush-plow. No. 1,153,213; Sept. 14; Gaz. vol. 218; p. 336.
- French, Percival B., Chicago, Ill. Cleaning attachment for player instruments. No. 1,145,009; July 6; Gaz. vol. 216; p. 10.
- French, Tom, assignor of one-third to F. J. Lathan and one-third to J. W. Harris, Rumford, Me. Stock-gate controller for paper-making machines. No. 1,140,029; May 18; Gaz. vol. 214; p. 886.
- French, William A., assignor to Wm. A. French Furniture Company, Minneapolis, Minn. Humidor. No. 1,163,400; Dec. 7; Gaz. vol. 221; p. 233.
- Frenier, Maxime O., Springfield, Mass. Hose-reel. No. 1,146,757; July 13; Gaz. vol. 216; p. 644.
- Frenkel, Gustav, Delmenhorst, Germany, assignor to Armstrong Cork Company, Pittsburgh, Pa. Manufacturing inoleum mosaic. No. 1,126,440; Jan. 26; Gaz. vol. 210; p. 1259.
- Frenkel, Gustav, San Francisco, Cal., assignor to Armstrong Cork Company, Pittsburgh, Pa. Machine for manufacturing inoleum-mosaic. No. 1,155,718; Oct. 5; Gaz. vol. 219; p. 137.
- Freres, Nicholas, Racine, Wis. Cork-extractor. No. 1,124,125; Jan. 5; Gaz. vol. 210; p. 315.
- Fressinet, Barthelemy. (See Chomier and Fressinet.)
- Freston, Cecil C., Tampico, Mexico. Gas-engine igniter. No. 1,141,051; May 25; Gaz. vol. 214; p. 1277.
- Fretwell, Nun Q., Fort Worth, Tex. Ornamental stand. No. 1,166,200; Dec. 28; Gaz. vol. 221; p. 1339.
- Fretz, John A., and T. F. Craven, Philadelphia, Pa. Bottle-closure. No. 1,133,950; Mar. 30; Gaz. vol. 212; p. 1610.
- Fretz, Samuel S., Jr. (See Hartzell, Morris H., assignor.)
- Fretz, William R., et al. (See Tredway, William E., assignor.)
- Fretzdorff, Richard, assignor to Korting & Mathiesen Aktiengesellschaft, Leutzsch, near Leipzig, Germany. Trimming-indicator for arc-lamps. No. 1,159,920; Nov. 9; Gaz. vol. 220; p. 565.
- Freud, Joseph, Chicago, Ill. Focusing-hood for cameras. No. 1,143,045; June 15; Gaz. vol. 215; p. 762.
- Freudenberger, Robert L. (See Blair and Freudenberger.)
- Freudinger, Charles G., Chicago, Ill. Combination-tool. No. 1,132,252; Mar. 16; Gaz. vol. 212; p. 916.
- Freuler, Kaspar, Zurich, Switzerland. Cork-drawing appliance. No. 1,123,723; Jan. 5; Gaz. vol. 210; p. 179.
- Freund, Annie, et al. (See Bülzingslöwen, Bruno von, assignor.)
- Freund, Luna C., Cheyenne, Wyo. Knickerbockers. No. 1,133,552; Mar. 30; Gaz. vol. 212; p. 1470.
- Freund, Minnie, et al. (See Bülzingslöwen, Bruno von, assignor.)
- Freund, Richard. (See Brandstetter and Freund.)
- Freund, Theodore. (See Roth, Andor, assignor.)
- Freundt, Louis J., Chicago, Ill., assignor to American Can Company, New York, N. Y. Dredge or sifter-top can. No. 1,141,535; June 1; Gaz. vol. 215; p. 160.
- Frewen, Thomas F., Wilkesburg, Pa. Non-refillable bottle. No. 1,140,588; May 25; Gaz. vol. 214; p. 1117.
- Frey, Charles. (See Wright, Judson E., assignor.)
- Frey, Clarence N., Cincinnati, Ohio. Self-locking receptacle. No. 1,155,719; Oct. 5; Gaz. vol. 219; p. 137.
- Frey, Ernest H., Cleveland, Ohio. Type-setting device. No. 1,140,809; May 25; Gaz. vol. 214; p. 1191.
- Frey, Ernest H., Cleveland, Ohio. Printing card and type holder. No. 1,149,570; Aug. 10; Gaz. vol. 217; p. 458.
- Frey, Fretz. (See Letin and Frey.)
- Frey, Henry H., Newton, Kans. Hammer. No. 1,125,999; Jan. 26; Gaz. vol. 210; p. 1100.
- Frey, Herbert H., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter-adjusting mechanism. No. 1,146,322; July 13; Gaz. vol. 216; p. 491.
- Frey, John, Guide Rock, Nebr. Pump attachment. No. 1,159,002; Nov. 2; Gaz. vol. 220; p. 206.
- Frey, John E., and T. F. Berrill, New York, N. Y. Metal door. No. 1,150,755; Aug. 17; Gaz. vol. 217; p. 970.
- Frey, John E., and T. F. Berrill, New York, N. Y. Sheet-metal-door construction. No. 1,161,121; Nov. 23; Gaz. vol. 220; p. 1086.
- Freyer, Ernst, et al. (See Cechal, Ferdinand, assignor.)
- Freyler, Frank. (See King, Jesse C., assignor.)
- Freyman, Bruno F., St. Louis, Mo. Stand-boller and water-heater. No. 1,164,803; Dec. 21; Gaz. vol. 221; p. 809.
- Freymuth, Louis H., Los Angeles, Cal. Gas-furnace and connections for parts thereof. No. 1,135,006; Apr. 13; Gaz. vol. 213; p. 374.
- Friberg, John G., assignor of one-third to G. E. Brasington, Maiden Rock, and one-third to O. H. Anderson, Plum City, Wis. Strainer. No. 1,125,831; Jan. 19; Gaz. vol. 210; p. 1008.
- Friberg, John G., assignor of one-third to G. E. Brasington, Maiden Rock, and one-third to O. H. Anderson, Plum City, Wis. Adjustable neck-pad and cap. No. 1,126,441; Jan. 26; Gaz. vol. 210; p. 1260.
- Friberg, John G., assignor of one-third to G. E. Brasington, Maiden Rock, and one-third to O. H. Anderson, Plum City, Wis. Horse-collar. No. 1,129,659; Feb. 23; Gaz. vol. 211; p. 1172.
- Friberg, John G., assignor of one-third to G. E. Brasington, Maiden Rock, and one-third to O. H. Anderson, Plum City, Wis. Adjustable pail-cover. No. 1,160,061; Nov. 9; Gaz. vol. 220; p. 611.
- Frick Company. (See Beeler, Samuel E., assignor.)
- Frick Company. (See Manns, William H., assignor.)
- Frick, Orlando A., Defiance, Ohio. Combined bearing and lubricating device for vehicle-wheels. No. 1,145,238; July 6; Gaz. vol. 216; p. 93.
- Frick, Orlando C., assignor to Smalley Manufacturing Co., Manitowoc, Wis. Communiting attachment for feed-cutters. No. 1,157,095; Oct. 19; Gaz. vol. 219; p. 673.
- Fricke, Louis E., et al. (See Phelps, Spencer H., assignor.)
- Fricke, William J., Bellingham, Wash. Check-up hook. No. 1,164,491; Dec. 14; Gaz. vol. 221; p. 660.
- Fricke, Victor J., Providence, R. I. Hat-hanger. No. 1,142,413; June 8; Gaz. vol. 215; p. 505.
- Frid, Carl J., Stege, Cal. Life-preserver. No. 1,131,227; Mar. 9; Gaz. vol. 212; p. 514.
- Friday, Chester L., Quincy, Ill. Condiment-holder. No. 1,127,611; Feb. 9; Gaz. vol. 211; p. 370.
- Fridde, Claude S., Dayton, Ala. Guide for sheet-metal piling. No. 1,135,448; Apr. 13; Gaz. vol. 213; p. 527.
- Fried, Ernest R., assignor to General Motors Company, Detroit, Mich. Multicylinder two-cycle engine. No. 1,138,742; May 11; Gaz. vol. 214; p. 396.
- Fried, Ernest R., assignor to General Motors Company, Detroit, Mich. Explosion-engine. No. 1,147,855; July 27; Gaz. vol. 216; p. 1074.
- Fried, Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Barth, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Becker, Julius, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Berker and Sachtleben, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Eberhard, Otto von, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Hartwig, Rudolf, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Heilemann and Kanonenberg, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Heubach, Otto, assignor.)

Alphabetical list of patentees—Continued.

- Fried. Krupp Aktiengesellschaft. (See Kastner and Stock, assignors.)
 Fried. Krupp Aktiengesellschaft. (See Knoch, Oscar, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Koch, Norbert, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Koch and Hayn, assignors.)
 Fried. Krupp Aktiengesellschaft. (See Luyken, Wilhelm, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Mandelartz, Ludwig, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Pohl, Anton, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Rabba, Heinrich, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Reichard, Fritz, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Sachtleben, Friedrich, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Schraepfer, Curt, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Steinbach, Reinhold, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Stock, Friedrich, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Strunk, Otto, assignor.)
 Fried. Krupp Aktiengesellschaft. (See Ullrich, Georg, assignor.)
 Fried. Krupp Aktiengesellschaft Germaniawerft. (See Dauber, Gisbert, assignor.)
 Fried. Krupp Aktiengesellschaft Germaniawerft. (See Guthardt, Karl, assignor.)
 Fried. Krupp Aktiengesellschaft Germaniawerft. (See Herkt, Ernst, assignor.)
 Fried. Krupp Aktiengesellschaft Germaniawerft. (See Hopf, Wilhelm, assignor.)
 Fried. Krupp Aktiengesellschaft Germaniawerft. (See Regenbogen, Conrad, assignor.)
 Fried. Krupp Aktiengesellschaft Germaniawerft. (See Regenbogen and Vogel, assignors.)
 Fried. Krupp Aktiengesellschaft Grusonwerk. (See Ullrich, Georg, assignor.)
 Friedberger, Simon. (See Clewley, Frank, assignor.)
 Friedel, John J. (See Coyle, James R., assignor.)
 Friedel, William R., Memphis, Tenn. Molding. (Reissue.) No. 1,319,10; May 4; Gaz. vol. 214; p. 312.
 Friedenthal, Hans, Berlin-Nicolassee, Germany. Fruit and vegetable dust and making same. No. 1,130,588; Mar. 2; Gaz. vol. 212; p. 262.
 Friedenwald, Jacob H., Baltimore, Md., assignor, by mesne assignments, to J. M. Gilbert, New York, N. Y. Travel detector or indicator for tires and the like. No. 1,144,961; June 29; Gaz. vol. 215; p. 1479.
 Friedlander, Joseph, New York, N. Y. Eyeglasses. No. 1,154,241; Sept. 21; Gaz. vol. 218; p. 733.
 Friedman, Albert. (See Lieberman, Friedman, and Rose.)
 Friedman, Bernard, Trenton, N. J., assignor of one-sixth to W. S. Spivack, one-sixth to R. Kramaroff, one-sixth to N. Kramaroff, and one-half to A. Garbell, Philadelphia, Pa. Automatic gas cut-off. No. 1,129,475; Feb. 23; Gaz. vol. 211; p. 1110.
 Friedrich, Johannes I., assignor of one-half to J. Gerhardt, Dusseldorf, Germany. Milking-machine. No. 1,141,536; June 1; Gaz. vol. 215; p. 160.
 Friedrich, Robert, Leipzig-Plagwitz, Germany. Fireproof cabinet. No. 1,140,670; May 25; Gaz. vol. 214; p. 1145.
 Friend, Orlando M. and S. E., Hannibal, Mo. Wheat-cleaning machine. No. 1,136,596; Apr. 20; Gaz. vol. 213; p. 973.
 Friend, Orlando M. and S. E., Hannibal, Mo. Treating wheat. No. 1,136,597; Apr. 20; Gaz. vol. 213; p. 973.
 Friend, Samuel E. (See Friend, Orlando M. and S. E.)
 Friend, Thomas H., North Andover, and J. F. Reynolds, Lawrence, Mass. Wool-combing machine. No. 1,128,968; Feb. 16; Gaz. vol. 211; p. 896.
 Frierson, John H. (See Egan and Frierson.)
 Friese, Frank J., and J. E. Gilbert, assignors to St. Louis Chilled Bearing Company, St. Louis, Mo. Mold. No. 1,163,135; Dec. 7; Gaz. vol. 221; p. 139.
 Friese-Greene Patents. (See Friese-Greene, William, assignor.)
 Friese-Greene, William, Hove, Brighton, assignor to Friese-Greene Patents, Limited, London, England. Reproduction of animated pictures. No. 1,155,056; Sept. 28; Gaz. vol. 218; p. 1039.
 Friese, Richard B., and L. L. Pointe, Chicago, Ill. Etcher's cleaning-table. No. 1,148,449; July 27; Gaz. vol. 216; p. 1284.
 Friesleben, Harold M., San Francisco, Cal. Flush-tank control. No. 1,154,695; Sept. 28; Gaz. vol. 218; p. 918.
 Friess, Wilhelm. (See Weingärtner and Friess.)
 Friestedt, Arthur A., Chicago, Ill. Tire-rim contractor. No. 1,162,470; Nov. 30; Gaz. vol. 220; p. 1604.
 Frigid Fluid Company. (See Davis, Frederick W., assignor.)
 Frigifax Manufacturing Company. (See Cartwright, Dale P., assignor.)
 Frink, Carroll H., Jacksonville, Fla. Introduction and retention of dental filling materials. No. 1,151,352; Aug. 24; Gaz. vol. 217; p. 1231.
 Frink, Fred J. (See Frink, Robert L. and F. J.)
 Frink, Gerald, Seattle, Wash. Throttle-valve. No. 1,140,738; May 25; Gaz. vol. 214; p. 1167.
 Frink, Herbert J., Holyoke, Mass. Adjustable bearing-box. No. 1,132,572; Mar. 23; Gaz. vol. 212; p. 1078.
 Frink, Lucius H., Rock Island, Ill. Irrigation-tile. No. 1,138,370; May 4; Gaz. vol. 214; p. 229.
 Frink, Robert L., Cleveland, Ohio. Regulating apparatus for furnaces. No. 1,129,083; Feb. 23; Gaz. vol. 211; p. 971.
 Frink, Robert L., Cleveland, Ohio. Method of and apparatus for drawing glass. No. 1,165,961; Dec. 28; Gaz. vol. 221; p. 1251.
 Frink, Robert L., Cleveland, Ohio. Glass-drawing mechanism. No. 1,166,125; Dec. 28; Gaz. vol. 221; p. 1311.
 Frink, Robert L., Columbus, Ohio. Cleaning glass-baths. No. 1,159,579; Nov. 9; Gaz. vol. 220; p. 440.
 Frink, Robert L., Lancaster, Ohio. Method of and apparatus for removing the residual glass from vessels containing a bath of glass. No. 1,165,962; Dec. 28; Gaz. vol. 221; p. 1251.
 Frink, Robert L., Lancaster, Ohio. Air-duct for glass-drawing pots and liberating and setting the same. No. 1,165,963; Dec. 28; Gaz. vol. 221; p. 1252.
 Frink, Robert L. and F. J., Cleveland, Ohio. Drawing-pot for glass. No. 1,165,960; Dec. 28; Gaz. vol. 221; p. 1250.
 Frisby, J. H., et al. (See Erickson, John E., assignor.)
 Frisk, Enos C., and E. C. Anderson, Somerset, Wis. Utensil-knob. No. 1,142,691; June 8; Gaz. vol. 215; p. 599.
 Frisk, Nels. (See Bradley, Charles A., assignor.)
 Fritchey, Conrad. (See Fritchey, Franklin W., assignor.)
 Fritchey, Franklin W., Sandusky, Ohio. Packing for piston-rods. No. 1,128,123; Feb. 9; Gaz. vol. 211; p. 552.
 Fritchey, Franklin W., Columbus, assignor to C. Fritchey, Sandusky, Ohio. Locomotive valve-gear. No. 1,138,207; May 4; Gaz. vol. 214; p. 170.
 Fritchle Automobile & Battery Co., The. (See Fritchle, Oliver P., assignor.)
 Fritchle, Oliver P., Denver, Colo. Oil-retaining device for bearings. No. 1,166,201; Dec. 28; Gaz. vol. 221; p. 1340.
 Fritchle, Oliver P., assignor to The Fritchle Automobile & Battery Co., Denver, Colo. Controlling mechanism for electric automobiles. No. 1,127,427; Feb. 9; Gaz. vol. 211; p. 307.
 Fritchle, Oliver P., assignor to The Fritchle Automobile and Battery Company, Denver, Colo. Testing device for accumulators. No. 1,136,789; Apr. 20; Gaz. vol. 213; p. 1041.
 Fritsch, John A., Pittsburgh, Pa. Brush. No. 1,130,673; Mar. 2; Gaz. vol. 212; p. 291.
 Fritsch, John W. J., assignor to M. E. Fritsch, Cincinnati, Ohio. Miniature aeroplane. No. 1,153,155; Sept. 7; Gaz. vol. 218; p. 278.
 Fritsch, Marie E. (See Fritsch, John W. J., assignor.)
 Fritsche, William M., Mangum, Okla. Detachable heel. No. 1,152,721; Sept. 7; Gaz. vol. 218; p. 125.
 Fritschl, Johann, Oftringen, assignor to I. Kappeler, Zofingen, Switzerland. Gas cooking-stove. No. 1,165,587; Dec. 28; Gaz. vol. 221; p. 1120.
 Fritz, Axel, Everett, Mass. Folding gate. No. 1,151,518; Aug. 24; Gaz. vol. 217; p. 1288.
 Fritz, Axel, Everett, Mass. Folding gate. No. 1,162,231; Nov. 30; Gaz. vol. 220; p. 1522.
 Fritz, George M., Indianapolis, Ind. Calculator. No. 1,156,770; Oct. 12; Gaz. vol. 219; p. 528.
 Fritz, Gustav E. (See McMahon, Thomas G., assignor.)
 Fritz, Gustav E., Peoria, Ill. Artificial tooth. No. 1,136,664; Apr. 20; Gaz. vol. 213; p. 797.
 Fritz, Gustav E., assignor of one-half to H. J. Banks, Chicago, Ill. Metal backing for teeth. No. 1,129,476; Feb. 23; Gaz. vol. 211; p. 1110.
 Fritz, Gustav E., assignor of one-half to T. G. McMahon, Chicago, Ill. Artificial tooth. No. 1,135,007; Apr. 13; Gaz. vol. 213; p. 375.
 Fritz, Gustav E., and T. G. McMahon, Chicago, Ill. Anchor for artificial teeth. No. 1,165,964; Dec. 28; Gaz. vol. 221; p. 1252.
 Fritz, Henry A. (See Buckley, Michael, assignor.)
 Fritz, Henry J., Des Moines, Iowa. Proportional divider-tape. No. 1,148,306; July 27; Gaz. vol. 216; p. 1235.
 Fritz, Jacob S., Zanesville, Ohio. Exhibitor. No. 1,165,239; Dec. 21; Gaz. vol. 221; p. 962.
 Fritz, John, Sr., Long Eddy, N. Y. Seal. No. 1,127,984; Feb. 9; Gaz. vol. 211; p. 504.
 Fritz, Vernon, Waterloo, Iowa. Ticket pin or stake. No. 1,161,303; Nov. 23; Gaz. vol. 220; p. 1153.
 Fritz, William, Philadelphia, Pa. Chocolate-enrobing machine. No. 1,132,253; Mar. 16; Gaz. vol. 212; p. 916.
 Fritze, George P., et al. (See Martin, Charles E., assignor.)
 Fritze, Henry L., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,159,921; Nov. 9; Gaz. vol. 220; p. 565.
 Friz, Max. (See Darniler and Friz.)

Alphabetical list of patentees—Continued.

- Froberg, Olof, Benton Harbor, Mich. Collar and cuff stancher. No. 1,158,040; Oct. 26; Gaz. vol. 219; p. 1067.
- Froehlich, Albert A., Toledo, Ohio. Device for maintaining a constant supply of melted material in a reservoir. No. 1,138,743; May 11; Gaz. vol. 214; p. 396.
- Froehlich, Albert A., Toledo, Ohio. Linotype attachment. No. 1,154,302; Sept. 21; Gaz. vol. 218; p. 753.
- Froehlich, Wilhelm, Wannsee, near Berlin, Germany. Internal-combustion motor. No. 1,154,303; Sept. 21; Gaz. vol. 218; p. 754.
- Froelich, John, assignor to L. S. Hackney, St. Paul, Minn. Gear-wheel. No. 1,159,486; Nov. 9; Gaz. vol. 220; p. 408.
- Froelich, Joseph, *et al.* (See Wiese, Theodore L., assignor.)
- Froese, Minna. (See Kaiser, Carl, assignor.)
- Froge, Arthur J., Kansas City, Mo. Can-opener. No. 1,128,124; Feb. 9; Gaz. vol. 211; p. 552.
- Frohlich, George W., Chicago, Ill. Draw-bench. No. 1,129,660; Feb. 23; Gaz. vol. 211; p. 1172.
- Frommer, Albert, and C. W. Zenker, St. Paul, Minn. Music-cabinet. No. 1,159,003; Nov. 2; Gaz. vol. 220; p. 206.
- Frommer, Rudolf von, Budapest, Austria-Hungary. Bayonet. No. 1,150,561; Aug. 17; Gaz. vol. 217; p. 905.
- Frommer, Rudolf von, Budapest, Austria-Hungary. Firing mechanism for automatic firearms. No. 1,159,004; Nov. 2; Gaz. vol. 220; p. 206.
- Frommer, Rudolf von, Budapest, Austria-Hungary. Fire-arm. No. 1,161,172; Nov. 23; Gaz. vol. 220; p. 1105.
- Frood, Herbert, Buxton, England. Brake. No. 1,136,605; Apr. 20; Gaz. vol. 213; p. 997.
- Frosig, Jeff, and L. W. Walstrom, Reno, Nev. Vehicle-spring. No. 1,125,505; Jan. 19; Gaz. vol. 210; p. 891.
- Frost, Charles H., Pasadena, Cal. Manhole, sewer, or other conduit and constructing the same. No. 1,144,468; June 29; Gaz. vol. 215; p. 1311.
- Frost, Frank, *et al.* (See Minkler, Ray A., assignor.)
- Frost, Harry L., *et al.* (See Murchey, Joseph, assignor.)
- Frost, Herbert J., New York, N. Y. Self-piling reel. No. 1,140,810; May 25; Gaz. vol. 214; p. 1192.
- Frost, James E., Ladysmith, Wis. Device for pulling, stretching, hoisting, &c. No. 1,132,082; Mar. 16; Gaz. vol. 212; p. 852.
- Frost, Leslie E. (See Farnsworth, Carpenter, and Frost.)
- Frost, Leslie E. (See Farnsworth, Carpenter, Frost, Rose, and Sipher.)
- Frost, Leslie E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor electric device. No. 1,159,922; Nov. 9; Gaz. vol. 220; p. 566.
- Frost Manufacturing Company. (See Theleen, Oscar H., assignor.)
- Frost, Newland E., assignor to James B. Clow & Sons, Chicago, Ill. Pressure-regulator for hot-water heating systems. No. 1,126,189; Jan. 26; Gaz. vol. 210; p. 1171.
- Frost, Walter E., Auburn, assignor of one-third to A. C. Leveque and one-third to J. P. Chevalier, Lewiston, Me. Egg-tester. No. 1,149,358; Aug. 10; Gaz. vol. 217; p. 414.
- Frost, Warren H., Los Angeles, Cal. Oil-burner. No. 1,136,115; Apr. 20; Gaz. vol. 213; p. 800.
- Frost, William H., Erie, Pa., assignor to General Electric Company. Pulverizer for oil-engines. No. 1,157,305; Oct. 19; Gaz. vol. 219; p. 748.
- Froussard, Albert F., St. Louis, Mo. Tube-cleaner. No. 1,161,122; Nov. 23; Gaz. vol. 220; p. 1086.
- Fruin, Robert E., and T. Tobin, Chicago, Ill. Cushion-tread horseshoe. No. 1,137,855; May 4; Gaz. vol. 214; p. 46.
- Fruin, Thomas J. (See Stamirowski, Stefan, assignor.)
- Fruin & Walker Company. (See Rock, Charles S. C., assignor.)
- Frum, Creed C., assignor of one-fourth to J. W. Agnew, Clarksburg, W. Va. Passenger-exit register. No. 1,143,598; June 15; Gaz. vol. 215; p. 957.
- Frumveller, Joseph, assignor to E. H. Gold, Chicago, Ill. Ventilator. No. 1,150,184; Aug. 17; Gaz. vol. 217; p. 773.
- Frush, Charles A., Youngstown, Ohio. Safety attachment for jointers. No. 1,132,327; Mar. 16; Gaz. vol. 212; p. 943.
- Fry, Charley, assignor of one-half to F. Capstick, Denver, Colo. Washing-pounder. No. 1,150,817; Aug. 17; Gaz. vol. 217; p. 992.
- Fry, Gideon A., New Kensington, Pa. Dust-mop. No. 1,143,528; Jan. 15; Gaz. vol. 215; p. 930.
- Fry, Henry E., Dorchester, assignor to C. E. De Wolf, London, England. Treatment of seed-grain. No. 1,155,560; Oct. 5; Gaz. vol. 219; p. 82.
- Fry, Isadore. (See Shanks, Jacob, assignor.)
- Fry, Isadore, and J. Shanks, St. Louis, Mo. Phonograph attachment for player-pianos. No. 1,123,512; Jan. 5; Gaz. vol. 210; p. 108.
- Fry, Justus W., Seattle, Wash. Telephone repeater system. No. 1,125,832; Jan. 19; Gaz. vol. 210; p. 1008.
- Fry, Richard J., Kensington, Victoria, Australia. Machine for shaping prepared blanks in the manufacture of horseshoes. No. 1,126,626; Jan. 26; Gaz. vol. 210; p. 1329.
- Fry, Walter L., New York, N. Y. Distance-finder. No. 1,163,594; Dec. 7; Gaz. vol. 221; p. 300.
- Fryberg, Elmer E., assignor of one-third to L. Berglund and one-third to J. Carlson, Duluth, Minn. Fire-alarm. No. 1,145,763; July 6; Gaz. vol. 216; p. 276.
- Frye, Charles H., South Bend, Ind. Combined mattress and life-raft. No. 1,134,602; Apr. 6; Gaz. vol. 213; p. 189.
- Frye, Charles H., South Bend, Ind. Safety-razor. No. 1,164,341; Dec. 14; Gaz. vol. 221; p. 607.
- Frye, Charles H., Salt Lake City, Utah. Headlight-blind. No. 1,142,414; June 8; Gaz. vol. 215; p. 505.
- Frye, George C., and F. C. Rollins, Portland, Me. Aseptic razor-strop and dispenser. No. 1,137,599; Apr. 27; Gaz. vol. 213; p. 1367.
- Fryer, George G., Syracuse, N. Y. Safety-seal for receptacles. No. 1,157,685; Oct. 26; Gaz. vol. 219; p. 943.
- Fryer, Joseph H., Galt, Ontario, Canada. Apparatus for annealing malleable-iron castings. No. 1,150,512; Aug. 17; Gaz. vol. 217; p. 887.
- Fryer, Robert M., New York, N. Y., assignor to F. B. Colman, Passaic, N. J. Internal-combustion engine. No. 1,128,125; Feb. 9; Gaz. vol. 211; p. 553.
- Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Change-speed gearing. No. 1,143,044; June 15; Gaz. vol. 215; p. 762.
- Fuchs, Philip A. (See Stevenson, Fuchs, and Hiecke.)
- Fudge, John W., Marion, Ind. Air-accelerator. No. 1,125,302; Jan. 19; Gaz. vol. 210; p. 820.
- Fuehrer, Henry, Hazleton, Pa. Combined reinforce and mold-support for concrete structures. No. 1,126,190; Jan. 26; Gaz. vol. 210; p. 1171.
- Fuehrer, Henry, Hazleton, Pa. Concrete-mixer. No. 1,157,096; Oct. 19; Gaz. vol. 219; p. 673.
- Fuenfstueck, Gustave, deceased; I. Fuenfstueck, administratrix, assignor of one-half to M. Waessel, Denver, Colo. Pulley. No. 1,148,507; Aug. 3; Gaz. vol. 217; p. 8.
- Fuenfstueck, Ida, administratrix. (See Fuenfstueck, Gustave.)
- Fuerhammer, Adolph, *et al.* (See Garrette, John E., assignor.)
- Fuerhoff, Casper H. (See Haggard, Robert H., assignor.)
- Fuhrman, Herman C., assignor to The Tokheim Mfg. Co., Cedar Rapids, Iowa. Pump. No. 1,157,686; Oct. 26; Gaz. vol. 219; p. 944.
- Fuhrmann, Henry W. A., Alhambra, Cal. Combined figure toy and bank. No. 1,163,817; Dec. 14; Gaz. vol. 221; p. 426.
- Fuhry, Henry, assignor of one-half to Blumenfeld, Locher Co., Milwaukee, Wis. Device for cutting fabrics. No. 1,143,594; June 15; Gaz. vol. 215; p. 955.
- Fujiyama, Taneichi, Tokyo, Japan. Manufacturing nitrogen compounds from carbids. No. 1,126,000; Jan. 26; Gaz. vol. 210; p. 1100.
- Fukami, Kinichi, Kojimachiku, Tokyo, Japan. Dial and case of clocks. No. 1,136,520; Apr. 20; Gaz. vol. 213; p. 947.
- Fukuzumi, Hayzon, Rye, N. Y. Boiler and gas heater. No. 1,147,499; July 20; Gaz. vol. 216; p. 924.
- Fulcher, Nelson, and J. H. Pickett, Sault Ste. Marie, Ontario, Canada. Pounder washing-machine. No. 1,139,511; May 18; Gaz. vol. 214; p. 703.
- Fulcher, William H., Oakland, Cal. Concrete-press. No. 1,160,996; Nov. 16; Gaz. vol. 220; p. 997.
- Fuld, Carrie. (See Fuld, William, assignor.)
- Fuld, William, assignor to C. Fuld, Baltimore, Md. Talking-board. No. 1,125,833; Jan. 19; Gaz. vol. 210; p. 1008.
- Fulde, Charles H., Cooperstown, N. Y. Window-screen. No. 1,126,442; Jan. 26; Gaz. vol. 210; p. 1260.
- Fulford, Harry. (See Reiter and Fulford.)
- Fulford, Marcus F., Fort Worth, Tex. Power-transmitting mechanism for pumps. No. 1,156,002; Oct. 5; Gaz. vol. 219; p. 234.
- Fulford, William A., assignor of one-half to W. E. Wood, Elkhorn, W. Va. Tensioning device. No. 1,147,318; July 20; Gaz. vol. 216; p. 858.
- Fulkerson, Eugene A., Roblin, Manitoba, Canada. Pitman connection. No. 1,134,446; Apr. 6; Gaz. vol. 213; p. 133.
- Fulkerson, Nina E. (See Van Vorst and Fulkerson.)
- Fulks, McKendree R., Gaithersburg, Md. Train-stopping apparatus. No. 1,139,512; May 18; Gaz. vol. 214; p. 703.
- Fullard, William, Burlington, and H. T. Quigley, Had-donfield, N. J. Platen printing press or machine. No. 1,148,207; July 27; Gaz. vol. 216; p. 1235.
- Fullenlove, McClellan C. (See Miles and Fullenlove.)
- Fuller, Allen A., assignor of one-half to C. M. McCrum, Birmingham, Ala. Automatic safety stopping device for elevators. No. 1,148,450; July 27; Gaz. vol. 216; p. 1285.
- Fuller, Anderson, Amsterdam, N. Y. Car-step. No. 1,146,559; July 13; Gaz. vol. 216; p. 576.
- Fuller, Benjamin D., J. R. Reilly, Lakewood, and T. A. Reilly, Cleveland, Ohio. Jarring-machine. No. 1,129,189; Feb. 23; Gaz. vol. 211; p. 1008.
- Fuller, Charles E., Omaha, Nebr. Stringer-support. No. 1,144,031; June 22; Gaz. vol. 215; p. 1131.
- Fuller, Edward, Jr., assignor of one-third to C. E. Collier, Altheimer, and one-third to D. D. Leary, Wabbaseka, Ark. Stoker for locomotive-boilers and the like. No. 1,153,156; Sept. 7; Gaz. vol. 218; p. 278.

Alphabetical list of patentees—Continued.

- Fuller, Ernest M., Grand Rapids, Mich. Electric switch-lock. No. 1,145,764; July 6; Gaz. vol. 216; p. 276.
- Fuller, Eugene, Providence, assignor of one-third to C. F. Butterworth, Pawtucket, and one-third to J. Webb, Thornton, R. I. Suspension-spring for vehicles. No. 1,140,671; May 25; Gaz. vol. 214; p. 1145.
- Fuller, Franz A., Newark, N. J. Razor-blade. No. 1,135,008; Apr. 13; Gaz. vol. 213; p. 375.
- Fuller, Franz A., Newark, N. J. Safety-razor. No. 1,145,984; July 13; Gaz. vol. 216; p. 372.
- Fuller, Franz A., Newark, N. J. Razor honing and stropping device. No. 1,159,487; Nov. 9; Gaz. vol. 220; p. 408.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,126,973; Feb. 2; Gaz. vol. 211; p. 108.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-frame. No. 1,147,934; July 27; Gaz. vol. 216; p. 1102.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,153,301; Sept. 14; Gaz. vol. 218; p. 368.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-frame. No. 1,153,302; Sept. 14; Gaz. vol. 218; p. 368.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Match-box. No. 1,153,875; Sept. 14; Gaz. vol. 218; p. 574.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,156,003; Oct. 5; Gaz. vol. 219; p. 234.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,156,004; Oct. 5; Gaz. vol. 219; p. 235.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,159,756; Nov. 9; Gaz. vol. 220; p. 505.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,159,757; Nov. 9; Gaz. vol. 220; p. 506.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,163,331; Dec. 7; Gaz. vol. 221; p. 209.
- Fuller, Franz A., Newark, N. J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,147,229; July 20; Gaz. vol. 216; p. 829.
- Fuller, Fred L., Sacramento, Cal. Can-top guiding and ejecting mechanism. No. 1,137,750; May 4; Gaz. vol. 214; p. 10.
- Fuller, Frederick H. (See Tompkins and Fuller.)
- Fuller, Frederick H., St. Lawrence, assignor to Tompkins-Hawley-Fuller Company, Valatie, N. Y. Process of and apparatus for craping paper. No. 1,143,377; June 15; Gaz. vol. 215; p. 881.
- Fuller, Frederick L. (See Muzzy and Fuller.)
- Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Calculating mechanism. No. 1,151,677; Aug. 31; Gaz. vol. 217; p. 1388.
- Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,161,042; Nov. 23; Gaz. vol. 220; p. 1058.
- Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Indicating mechanism. No. 1,163,748; Dec. 14; Gaz. vol. 221; p. 401.
- Fuller, George P., assignor to National Electrolytic Company, Niagara Falls, N. Y. Making arsenic acid and arsenical compounds. No. 1,125,086; Jan. 19; Gaz. vol. 210; p. 742.
- Fuller, George P., assignor to National Electrolytic Company, Niagara Falls, N. Y. Formaldehyde solution. No. 1,143,114; June 15; Gaz. vol. 215; p. 787.
- Fuller, Herbert M., assignor to himself and J. C. Fuller, Philadelphia, Pa. Magazine crayon and lead holder. No. 1,153,055; Sept. 7; Gaz. vol. 218; p. 245.
- Fuller, Ira D., Vona, Colo. Money-counting machine. No. 1,162,597; Nov. 30; Gaz. vol. 220; p. 1645.
- Fuller, James A., assignor to Hamilton & Hamilton, Jr., Providence, R. I. Necktie-fastener. No. 1,143,580; June 15; Gaz. vol. 215; p. 950.
- Fuller, Jesse T. (See Curran, Edmund, assignor.)
- Fuller, Jessie C. (See Fuller, Herbert M., assignor.)
- Fuller, John L., assignor to Detroit Lubricator Company, Detroit, Mich. Valve. No. 1,151,776; Aug. 31; Gaz. vol. 217; p. 1423.
- Fuller, MZL, Birmingham, Ala. Shipping-container for phonograph-records. No. 1,137,126; Apr. 27; Gaz. vol. 213; p. 1200.
- Fuller, MZL, Birmingham, Ala. Phonograph. No. 1,146,418; July 13; Gaz. vol. 216; p. 524.
- Fuller, Percy W., assignor of one-half to A. B. Praetsch, Boston, Mass. Apparatus for determining distance and direction. No. 1,149,122; Aug. 3; Gaz. vol. 217; p. 222.
- Fuller, Percy W., assignor of one-half to A. B. Praetsch, Boston, Mass. Signaling apparatus. No. 1,149,123; Aug. 3; Gaz. vol. 217; p. 223.
- Fuller, Theodore W. (See Christensen and Fuller.)
- Fuller-Warren Co., The. (See Walker, James H., assignor.)
- Fuller, William D., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner. No. 1,147,230; July 20; Gaz. vol. 216; p. 829.
- Fullerton, Clarence A., L. A. Rushworth, New York, N. Y., and W. H. Paeth, Providence, R. I., assignors to Gorham Co., New York, N. Y. Metallic framing. No. 1,158,378; Oct. 26; Gaz. vol. 219; p. 1185.
- Fullerton, Frederick W., St. Paul, Minn., assignor to Dispatch Conveyor Company, Newspaper-conveyer. No. 1,138,609; May 4; Gaz. vol. 214; p. 310.
- Fullerton, Robert M., Spokane, Wash. Game apparatus. No. 1,141,624; June 1; Gaz. vol. 215; p. 191.
- Fullman, James M. G. (See Gilson and Fullman.)
- Fulton Company, The. (See Fulton, Weston M., assignor.)
- Fulton Iron Works. (See Lara, Francisco, assignor.)
- Fulton Iron Works. (See Setz, Hans R., assignor.)
- Fulton, John S. S., New York, N. Y., assignor to E. T. Jester, trustee. Cium-burning furnace. No. 1,130,389; Mar. 2; Gaz. vol. 212; p. 190.
- Fulton, Louis B., assignor to The Chaplin-Fulton Manufacturing Company, Pittsburgh, Pa. Feed-water regulator. No. 1,123,270; Jan. 5; Gaz. vol. 210; p. 23.
- Fulton, Louis B., assignor to The Chaplin-Fulton Manufacturing Company, Pittsburgh, Pa. Feed-water regulator. No. 1,123,864; Jan. 5; Gaz. vol. 210; p. 228.
- Fulton, Louis B., assignor to The Chaplin-Fulton Manufacturing Company, Pittsburgh, Pa. Feed-water regulator. No. 1,131,690; Mar. 16; Gaz. vol. 212; p. 710.
- Fulton Manufacturing Company. (See Brown, Walter W., assignor.)
- Fulton Pit Car & Manufacturing Company, The. (See Purdy, Walter S., assignor.)
- Fulton, Samuel M., assignor to The Pomona Manufacturing Company, Pomona, Cal. Valved piston. No. 1,164,178; Dec. 14; Gaz. vol. 221; p. 550.
- Fulton, Walter W. (See Hamel, Adolor, assignor.)
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Carbureter. No. 1,145,476; July 6; Gaz. vol. 216; p. 176.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Making flexible tubular corrugated metal walls. No. 1,151,777; Aug. 31; Gaz. vol. 217; p. 1424.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Damper-regulator. No. 1,153,214; Sept. 14; Gaz. vol. 218; p. 337.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Balanced valve. No. 1,153,681; Sept. 14; Gaz. vol. 218; p. 504.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Carbureter. No. 1,165,087; Dec. 21; Gaz. vol. 221; p. 908.
- Fulton, William H., New York, N. Y. Smoking-pipe. No. 1,157,771; Oct. 26; Gaz. vol. 219; p. 972.
- Fulton, Willis P., Barnston, Nebr. Sack-baler. No. 1,147,500; July 20; Gaz. vol. 216; p. 924.
- Fultz, Deck B., Barry, Tex. Cotton-chopper. No. 1,133,553; Mar. 30; Gaz. vol. 212; p. 1470.
- Funder, Mathew, Fairport Harbor, assignor of ten one-hundredths to R. G. Skinner, Cleveland, and forty-five one-hundredths to F. B. Chilson, Painesville, Ohio. Hatch-cover. No. 1,132,714; Mar. 23; Gaz. vol. 212; p. 1131.
- Funderburk, Otis C., assignor to Detroit Lubricator Company, Detroit, Mich. Fuel-supply system for carbureters. No. 1,149,192; Aug. 10; Gaz. vol. 217; p. 353.
- Funderburk, Otis C., assignor to Detroit Lubricator Company, Detroit, Mich. Carbureter. No. 1,151,778; Aug. 31; Gaz. vol. 217; p. 1424.
- Funderburk, Otis C., assignor to Detroit Lubricator Company, Detroit, Mich. Carbureter. No. 1,159,005; Nov. 2; Gaz. vol. 220; p. 207.
- Funk, Captain P., Wooster, Ohio. Detachable boot for automobile-tires. No. 1,133,718; Mar. 30; Gaz. vol. 212; p. 1531.
- Funk, Captain P., Wooster, Ohio. Combination saw and try-square. No. 1,136,790; Apr. 20; Gaz. vol. 213; p. 1041.
- Funk, Casimir, New York, N. Y., assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Preparing nitrogenous products from cod-liver oil. No. 1,162,907; Dec. 7; Gaz. vol. 221; p. 60.
- Funk, Casimir, New York, N. Y., assignor to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Obtaining vitamins. No. 1,162,908; Dec. 7; Gaz. vol. 221; p. 60.
- Funk, John G., Swissvale borough, Pa. Air-spring. No. 1,140,344; May 18; Gaz. vol. 214; p. 996.
- Funk, John L., assignor of one-half to A. S. Hawley, Redondo, Cal. Trestle-frame and bracing means therefor. No. 1,133,230; Mar. 23; Gaz. vol. 212; p. 1318.
- Funk, Nelson E., Montclair, N. J. Making envelopes. No. 1,135,786; Apr. 13; Gaz. vol. 213; p. 645.
- Funk, Nelson E., Montclair, N. J., assignor to R. Hoe and Co., New York, N. Y. Transfer-printing machine. No. 1,123,724; Jan. 5; Gaz. vol. 210; p. 179.
- Funk, Nelson E., Montclair, N. J., and L. P. Whitaker; said Funk assignor to V. E. Freeman, New York, N. Y. Flax pulling and harvesting machine. No. 1,145,010; July 6; Gaz. vol. 216; p. 11.
- Funk, Nelson E., Montclair, N. J., and L. P. Whitaker; said Funk assignor to V. E. Freeman, New York, N. Y. Apparatus for removing seed and seed-pods from flax. No. 1,145,011; July 6; Gaz. vol. 216; p. 11.

Alphabetical list of patentees—Continued.

- Funk, Nelson E., Montclair, N. J., and L. P. Whitaker; said Funk assignor to V. E. Freeman, New York, N. Y. Flax pulling and harvesting machine. No. 1,145,012; July 6; Gaz. vol. 216; p. 12.
- Funk, Richard W., Weehawken, N. J., assignor to R. W. Funk, Incorporated, New York, N. Y. Tool for operating vehicle wheel-rims. No. 1,146,419; July 13; Gaz. vol. 216; p. 525.
- Funk, Richard W., Weehawken, N. J., assignor to R. W. Funk, Incorporated, New York, N. Y. Vehicle wheel-rim. No. 1,146,420; July 13; Gaz. vol. 216; p. 525.
- Funk, Richard W., Weehawken, N. J., assignor to R. W. Funk, Incorporated, New York, N. Y. Tool for operating vehicle wheel-rims. No. 1,146,421; July 13; Gaz. vol. 216; p. 526.
- Funk, Richard W., Weehawken, N. J., assignor to R. W. Funk, Incorporated, New York, N. Y. Vehicle wheel-rim. No. 1,146,422; July 13; Gaz. vol. 216; p. 526.
- Funsten, James J., San Francisco, Cal. Interlocking tile. No. 1,158,041; Oct. 26; Gaz. vol. 219; p. 1068.
- Fuqua, Owen C., *et al.* (See Shilling, Edward C., assignor.)
- Fuqua, William Y., Houston, Tex. Packing mechanism for oil and water wells. No. 1,127,428; Feb. 9; Gaz. vol. 211; p. 307.
- Fuqua, William Y., and C. J. Johnson, Houston, assignors of one-fourth to F. J. Hardey, Wharton county, and one-fourth to F. J. Clemenger, Harris county, Tex. Mechanism for casing off water. No. 1,124,602; Jan. 12; Gaz. vol. 210; p. 534.
- Furber, Frederick M., Revere, Mass., assignor to A. R. Mosler, New York, N. Y. Spark-plug. No. 1,126,974; Feb. 2; Gaz. vol. 211; p. 108.
- Furber, Frederick M., Revere, Mass., assignor to A. R. Mosler, New York, N. Y. Manufacturing spark-plugs. No. 1,126,975; Feb. 2; Gaz. vol. 211; p. 109.
- Furber, Frederick M., Revere, Mass., assignor to A. R. Mosler, New York, N. Y. Priming device. No. 1,152,722; Sept. 7; Gaz. vol. 218; p. 125.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Burner. No. 1,127,355; Feb. 2; Gaz. vol. 211; p. 240.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grinding-machine. No. 1,127,877; Feb. 9; Gaz. vol. 211; p. 467.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Belt-shifter. No. 1,136,116; Apr. 20; Gaz. vol. 213; p. 801.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for presenting liquid or viscous material. No. 1,145,412; July 6; Gaz. vol. 216; p. 152.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Dispensing-can. No. 1,158,676; Nov. 2; Gaz. vol. 220; p. 94.
- Furber, Henry J., Jr., Chicago, Ill. Locating sounds. No. 1,149,976; Aug. 10; Gaz. vol. 217; p. 637.
- Furber, James B., Rahway, N. J. Advertising device. No. 1,140,148; May 18; Gaz. vol. 214; p. 928.
- Furlong, James. (See Roach, Michael J., assignor.)
- Furman, Adalbert, Chicago, Ill. Collection-basket. No. 1,160,273; Nov. 16; Gaz. vol. 220; p. 740.
- Furman, Howard G., Jr., Marsland, Nebr. Wire-stretcher. No. 1,142,952; June 15; Gaz. vol. 215; p. 731.
- Furman, Isaac W., Bay Shore, N. Y. Automobile-jack. No. 1,140,149; May 18; Gaz. vol. 214; p. 929.
- Furridge, Samuel, Chicago, Ill., assignor to Auto Device Manufacturing Company. Automobile shock-absorber. No. 1,158,402; Oct. 26; Gaz. vol. 219; p. 1195.
- Furnas, Linus T., Lima, Ohio. Dress-form. No. 1,158,199; Oct. 26; Gaz. vol. 219; p. 1123.
- Furnas Pneumatic Sweeper Company. (See Furnas, Robert W., assignor.)
- Furnas, Robert W., Indianapolis, Ind. Street-sweeper. No. 1,150,936; Aug. 24; Gaz. vol. 217; p. 1091.
- Furnas, Robert W., assignor to Furnas Pneumatic Sweeper Company, Indianapolis, Ind. Gathering-hood for pneumatic street-sweepers. No. 1,124,603; Jan. 12; Gaz. vol. 210; p. 534.
- Furness, William H., National Park, N. J., assignor to H. K. Mulford Company, Philadelphia, Pa. Intradermic syringe. No. 1,157,524; Oct. 19; Gaz. vol. 219; p. 825.
- Furnstahl, Joseph A., Howard, S. D. Hog catching and holding device. No. 1,152,165; Aug. 31; Gaz. vol. 217; p. 1553.
- Furrer, Frank E., Wishek, N. D. Truck-adjusting mechanism. No. 1,131,050; Mar. 9; Gaz. vol. 212; p. 454.
- Furrer, George, Oakland, Cal. Signal system. No. 1,128,126; Feb. 9; Gaz. vol. 211; p. 553.
- Furrey, John W., Vancouver, Wash. Locking-hook. No. 1,149,041; Aug. 3; Gaz. vol. 217; p. 197.
- Furrow, Harry R., Piqua, Ohio. Toy. No. 1,133,719; Mar. 30; Gaz. vol. 212; p. 1531.
- Furtaw, Charles A., Philadelphia, Pa. Respiratory mask. No. 1,127,612; Feb. 9; Gaz. vol. 211; p. 371.
- Furth, Fred C. (See Chaplin, Manley J., assignor.)
- Furth, George W., Cleveland, Ohio. Tie-handle. No. 1,141,790; June 1; Gaz. vol. 215; p. 247.
- Furthmann, William N., Chicago, Ill., assignor to T. H. Tapley, Grand Rapids, Mich. Furnace. No. 1,135,678; Apr. 13; Gaz. vol. 213; p. 609.
- Furthmann, William N., Chicago, Ill., assignor to T. H. Tapley, Grand Rapids, Mich. Liquid-fuel burner. No. 1,135,679; Apr. 13; Gaz. vol. 213; p. 609.
- Furuholm, George, Minneapolis, Minn. Furnace. No. 1,132,573; Mar. 23; Gaz. vol. 212; p. 1079.
- Furukawa, Iiyosaku, Seattle, Wash. Automatic releasing mechanism for cameras. No. 1,144,301; June 22; Gaz. vol. 215; p. 1226.
- Fusch, Wernie A., Decatur, Ill. Guide-board. No. 1,150,668; Aug. 17; Gaz. vol. 217; p. 941.
- Fusina, Giovanni, Genoa, Italy. Desulfurizing ores. No. 1,131,691; Mar. 16; Gaz. vol. 212; p. 710.
- Fuss, Alexander H. (See McCoy, Elijah, assignor.)
- Fussell, James E., Roff, Okla. Fence-post. No. 1,153,380; Sept. 14; Gaz. vol. 218; p. 398.
- Futral, Richard, Tahlequah, Okla. Stove. No. 1,123,725; Jan. 5; Gaz. vol. 210; p. 180.
- Futterman, Harry, New York, N. Y., assignor to Superior Lamp Mfg. Co. Automobile-hood. No. 1,155,321; Sept. 28; Gaz. vol. 218; p. 1128.
- Fykse, Mitchell L. (See Smith, Ivan M., assignor.)
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Starter and ignition control. No. 1,143,378; June 15; Gaz. vol. 215; p. 881.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 1,152,622; Sept. 7; Gaz. vol. 218; p. 89.
- Fyrberg, Andrew, Worcester, Mass., assignor to Warner Arms Corporation, New York, N. Y. Automatic hand-firearm. No. 1,131,360; Mar. 9; Gaz. vol. 212; p. 560.
- G. A. Duerler Mfg. Co. (See Gebhardt, William, assignor.)
- G. B. Lewis Company. (See Mollart, Lobegott, assignor.)
- G. D. Peters & Co. (See Le Clair, Louis J., assignor.)
- G. D. Peters and Company Limited. (See Macfarlane and Roley, assignors.)
- G. E. Prentice Manufacturing Company, The. (See Prentice, George E., assignor.)
- G. H. Bass & Company. (See Llewellyn and Briggs, assignors.)
- G & J Tire Company. (See Stultz, Charles W., assignor.)
- G. & J. Weir. (See Petermoller, Joseph, assignor.)
- G. S. Ackley & Company. (See Ackley, Griffin S., assignor.)
- G. W. Baker Machine Company. (See Baker, George W., assignor.)
- G. & W. Electric Specialty Co. (See Williams, Paul F., assignor.)
- G. W. Todd & Company. (See Todd and Tiefel, assignors.)
- Gabbe, Hyman B., New York, N. Y. Window-wicket-operating mechanism. No. 1,120,504; Mar. 2; Gaz. vol. 212; p. 233.
- Gabel, John, Chicago, Ill. Automatic talking-machine. No. 1,134,603; Apr. 6; Gaz. vol. 213; p. 189.
- Gabler, George L., Dover Court, Alberta, Canada. Fishing-tackle. No. 1,159,006; Nov. 2; Gaz. vol. 220; p. 207.
- Gabriel, Charles E. P., Birmingham, England. Lock for sliding doors. No. 1,144,537; June 29; Gaz. vol. 215; p. 1334.
- Gabriel, Charles L., New York, N. Y. Match and making the same. No. 1,147,159; July 20; Gaz. vol. 216; p. 804.
- Gabrielsky, Richard, Jersey City, N. J. Drill-operating tool. No. 1,140,811; May 25; Gaz. vol. 214; p. 1191.
- Gabrielson, Carl, assignor to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Card-writing platen for type-writing machines. No. 1,160,503; Nov. 16; Gaz. vol. 220; p. 821.
- Gabrielson, Carl, assignor to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Card-writing platen for type-writing machines. No. 1,160,504; Nov. 16; Gaz. vol. 220; p. 821.
- Gadberry, John O. (See Miller and Gadberry.)
- Gadbois, Joseph E., Springfield, Mass. Button-sewing machine. No. 1,162,471; Nov. 30; Gaz. vol. 220; p. 1604.
- Gaddis, Theodore B., Jersey City, N. J. Field-stove. No. 1,146,490; July 13; Gaz. vol. 216; p. 553.
- Gade, Harold F., assignor to Standard Pressed Steel Co., Philadelphia, Pa. Shaft-hanger. No. 1,165,332; Dec. 21; Gaz. vol. 221; p. 992.
- Gadke, August H., Bromhead, Saskatchewan, Canada. Axle boxing or sleeve. No. 1,164,179; Dec. 14; Gaz. vol. 221; p. 550.
- Gadow, Edward P., Preston, Md. Fodder-binder. No. 1,131,501; Mar. 9; Gaz. vol. 212; p. 610.
- Gadsby, Alvin L., Toronto, Ontario, Canada. Air-vent. No. 1,135,449; Apr. 13; Gaz. vol. 213; p. 527.
- Gaebler, Max H. (See Schultz, Emil W., assignor.)
- Gaede, Wolfgang, Freiburg, Germany. Vacuum-pump. No. 1,137,751; May 4; Gaz. vol. 214; p. 10.
- Gaess, Albert H., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Heading-machine. No. 1,139,963; May 18; Gaz. vol. 214; p. 862.
- Gaess, Albert H., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Adjustable die-holder for thread-rollers. No. 1,146,560; July 13; Gaz. vol. 216; p. 577.

Alphabetical list of patentees—Continued.

- Gaess, Albert H., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Blank-guide for automatic thread-rollers. No. 1,146,561; July 13; Gaz. vol. 216; p. 577.
- Gaeth, Paul, assignor of one-third to W. F. Tausch and one-third to T. J. Jackman, Cleveland, Ohio. Fluid-meter. No. 1,134,604; Apr. 6; Gaz. vol. 213; p. 189.
- Gaff, Thomas T., Washington, D. C. Tachometer. No. 1,134,951; Apr. 6; Gaz. vol. 213; p. 309.
- Gaff, Thomas T., Washington, D. C. Circuit-controller. No. 1,150,356; Aug. 17; Gaz. vol. 217; p. 833.
- Gaffney, Henry. (See Buchanan and Gaffney.)
- Gaffney, James. (See Anderson and Gaffney.)
- Gaffney, Thomas. (See Maginnis and Gaffney.)
- Gagan, Ralph, Oconomowoc, Wis. Cow-stall. No. 1,142,246; June 8; Gaz. vol. 215; p. 444.
- Gage, Burt O., assignor to Warren Steam Pump Company, Warren, Mass. Tool-holder for rotary drilling and like machines. No. 1,131,777; Mar. 16; Gaz. vol. 212; p. 741.
- Gage, Carl M., *et al.* (See Boudwin, Edward H., assignor.)
- Gage, Daniel W., Cambridge, Mass., assignor to J. C. Hawkins, Newton, Iowa. Paper-fastener. No. 1,130,589; Mar. 2; Gaz. vol. 212; p. 262.
- Gage, Daniel W., Cambridge, Mass., assignor to J. C. Hawkins, Newton, Iowa. Paper-fastener. No. 1,130,590; Mar. 2; Gaz. vol. 212; p. 263.
- Gage, Harry H., Chicago, Ill. Spray and stream pump. No. 1,129,286; Feb. 23; Gaz. vol. 211; p. 1042.
- Gage, Harry H., Chicago, Ill. Soap-fountain. No. 1,157,860; Oct. 26; Gaz. vol. 219; p. 1003.
- Gage, Joseph J., assignor of one-half to H. Mackey, Dayton, Ohio. Drying-tank. No. 1,146,618; July 13; Gaz. vol. 216; p. 596.
- Gage, Leo J., Hilbert, Wis. Hat-pin-point protector. No. 1,139,264; May 11; Gaz. vol. 214; p. 580.
- Gage, Lorenzo R., Ilwaco, Wash. Clam-digger and fishing-machine. No. 1,164,492; Dec. 14; Gaz. vol. 221; p. 660.
- Gage, Will V., Primero, Colo. Aeroplane. No. 1,151,172; Aug. 24; Gaz. vol. 217; p. 1171.
- Gage, Will V., Primero, assignor of one-half to B. F. Springer and G. Hausman, Trinidad, Colo. Truss. No. 1,125,087; Jan. 19; Gaz. vol. 210; p. 742.
- Gagne, George J., Woonsocket, R. I. Speed-indicating means for motor-cycles. No. 1,138,208; May 4; Gaz. vol. 214; p. 170.
- Gagnon, Erasme, Pawtucket, R. I., assignor to Draper Company, Hopedale, Mass. Harness stop-motion for looms. No. 1,133,464; Mar. 30; Gaz. vol. 212; p. 1437.
- Gagnon, Ernest H., Billings, Mont. Combined life-preserver and body-protector. No. 1,137,056; Apr. 27; Gaz. vol. 213; p. 1174.
- Gagnon, Ernest H., Billings, Mont. Fume and smoke filter. No. 1,148,508; Aug. 3; Gaz. vol. 217; p. 8.
- Gagnon, Joseph S. H. (See Hébert and Gagnon.)
- Gagnon, Prim, Hammond, Ind. Rail-lifting tool. No. 1,131,051; Mar. 9; Gaz. vol. 212; p. 454.
- Gail, Alfred F., *et al.* (See Buckley, Duer H., assignor.)
- Gail, John F., Kenosha, Wis. Polishing-machine. No. 1,148,768; Aug. 3; Gaz. vol. 217; p. 103.
- Gail, John F., Kenosha, Wis. Polishing-machine. No. 1,154,696; Sept. 28; Gaz. vol. 218; p. 918.
- Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Wire-working machine. No. 1,126,746; Feb. 2; Gaz. vol. 211; p. 29.
- Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Link-forming machine. No. 1,148,767; Aug. 3; Gaz. vol. 217; p. 102.
- Gail, John F., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Machine for making wire structures. No. 1,152,889; Sept. 7; Gaz. vol. 218; p. 187.
- Galler, Ferdinand, New York, N. Y. Book-sewing machine. No. 1,153,775; Sept. 14; Gaz. vol. 218; p. 537.
- Gaillard, Tacitus W., Brooklyn, N. Y. Tool. No. 1,123,513; Jan. 5; Gaz. vol. 210; p. 108.
- Gallor, William H., Saratoga Springs, N. Y. Apparatus for applying binder to roadways. No. 1,124,604; Jan. 12; Gaz. vol. 210; p. 535.
- Gallor, William H., Saratoga Springs, N. Y. Machine for distributing fluid road material. No. 1,159,343; Nov. 2; Gaz. vol. 220; p. 325.
- Gain, Henry M., Belleville, Ontario, Canada. Train-stop. No. 1,149,571; Aug. 10; Gaz. vol. 217; p. 488.
- Gainer, Albert L., St. Louis, Mo. Train-stopping apparatus. No. 1,131,502; Mar. 9; Gaz. vol. 212; p. 610.
- Gainer, Douglas E., and W. L. Stull, Brunswick, Md. Lubricator. No. 1,133,554; Mar. 30; Gaz. vol. 212; p. 1470.
- Gainer, Edward E., assignor to The Centerfreze Ice Process Company, New York, N. Y. Ice-making apparatus. No. 1,157,623; Oct. 19; Gaz. vol. 219; p. 855.
- Gaines, Arthur E., and A. A. Erb, Denver, Colo. Knee-joint for artificial limbs. No. 1,124,220; Jan. 5; Gaz. vol. 210; p. 350.
- Gaines, Ashtabula, Westminster, S. C. Hammer attachment for anvils. No. 1,150,262; Aug. 17; Gaz. vol. 217; p. 801.
- Gaines, Edward C. (See Brown and Gaines.)
- Gaines, Frederick F., Savannah, Ga., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler. No. 1,138,059; May 4; Gaz. vol. 214; p. 119.
- Gaines, Frederick F., Savannah, Ga., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,060; May 4; Gaz. vol. 214; p. 119.
- Gaines, Frederick F., Savannah, Ga., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,061; May 4; Gaz. vol. 214; p. 120.
- Gaines, Nolan T. (See Beck, John W., assignor.)
- Gainor, Summers E., Halethroe, Md. Egg-shipping crate. No. 1,133,849; Mar. 30; Gaz. vol. 212; p. 1577.
- Gaisman, Henry J., New York, N. Y. Shaving set. No. 1,140,030; May 18; Gaz. vol. 214; p. 887.
- Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,139,115; May 11; Gaz. vol. 214; p. 529.
- Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,147,231; July 20; Gaz. vol. 216; p. 830.
- Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,155,347; Oct. 5; Gaz. vol. 219; p. 8.
- Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,158,914; Nov. 2; Gaz. vol. 220; p. 177.
- Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,163,136; Dec. 7; Gaz. vol. 221; p. 140.
- Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Safety-razor. No. 1,163,137; Dec. 7; Gaz. vol. 221; p. 140.
- Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Stropping-machine. No. 1,163,332; Dec. 7; Gaz. vol. 221; p. 210.
- Gaisser, Louis E., Louisville, Ky. Wrench. No. 1,160,160; Nov. 16; Gaz. vol. 220; p. 702.
- Gaisser, Louis E., assignor, by mesne assignments, to Red Chief Manufacturing Company, Louisville, Ky. Grinding-mill bur. No. 1,126,976; Feb. 2; Gaz. vol. 211; p. 109.
- Gala Manufacturing Company. (See Beall, William L., assignor.)
- Galbraith, Henry W., Amarillo, Tex. Interior bracing for silos. No. 1,151,870; Aug. 31; Gaz. vol. 217; p. 1457.
- Galbraith, Henry W., Amarillo, Tex. Interior bracing of silos. No. 1,151,871; Aug. 31; Gaz. vol. 217; p. 1458.
- Galbraith, John P. (See Stoll, Louis M., assignor.)
- Galbraith, William J., Ayr, and J. Eaglesham, Stewarton, Scotland. Means for generating combustion products under pressure. No. 1,163,333; Dec. 7; Gaz. vol. 221; p. 210.
- Galbreath, Edwin B., and C. O. Guernsey, Indianapolis, Ind. Internal-combustion engine. No. 1,124,721; Jan. 12; Gaz. vol. 210; p. 577.
- Gald, Christopher S., Soldiers Grove, Wis. Road-working machine. No. 1,126,001; Jan. 26; Gaz. vol. 210; p. 1100.
- Galdyn, Andro, and S. Lublin, Kewanee, Ill. Car construction. No. 1,142,878; June 15; Gaz. vol. 215; p. 704.
- Gale, Albert O., assignor of one-half to F. W. Cray, Seattle, Wash. Razor. No. 1,123,865; Jan. 5; Gaz. vol. 210; p. 228.
- Gale, Ernest L., Jr., Yonkers, N. Y. Conveyer. No. 1,138,100; May 4; Gaz. vol. 214; p. 134.
- Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for punch-presses. No. 1,127,356; Feb. 2; Gaz. vol. 211; p. 241.
- Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Traction-elevator. No. 1,132,769; Mar. 23; Gaz. vol. 212; p. 1152.
- Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for elevators. No. 1,132,770; Mar. 23; Gaz. vol. 212; p. 1152.
- Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Gearing. No. 1,140,369; May 25; Gaz. vol. 214; p. 1038.
- Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Brake-magnet demagnetizing device. No. 1,152,501; Sept. 7; Gaz. vol. 218; p. 43.
- Gale, Eugene H. (See George, Grover, assignor.)
- Gale, Frank W., *et al.* (See Clark, Arthur I., assignor.)
- Gale, Knight W., Los Angeles, Cal. Flat-unfolding lunch-box. No. 1,129,343; Feb. 23; Gaz. vol. 211; p. 1062.
- Gale Manufacturing Company. (See Beall, William L., assignor.)
- Gale, Pliny M., *et al.* (See Beery, John H., assignor.)
- Galeski, Joseph S., Richmond, Va. Eyeglass-guard. No. 1,124,126; Jan. 5; Gaz. vol. 210; p. 315.
- Galotti, Giacomo, Chicago, Ill. Horological apparatus. No. 1,160,274; Nov. 16; Gaz. vol. 220; p. 740.
- Galiotti, Frank. (See Alfano, Louis, assignor.)
- Galion Iron Works and Manufacturing Company, The. (See Arndt, Franklin E., assignor.)

Alphabetical list of patentees—Continued.

- Galion Iron Works and Manufacturing Company, The. (See Boyd, David C., assignor.)
- Gall, Alexander, Bayonne, N. J. Car-roof. No. 1,149,572; Aug. 10; Gaz. vol. 217; p. 489.
- Gall, Hermann, Berlin, Germany. Feeding and moistening device for securing a reinforcing-strip above the perforated edge of a strip. No. 1,147,715; July 27; Gaz. vol. 216; p. 1025.
- Gallagher, Charles H., executor. (See Rites, Francis M.)
- Gallagher, Edward D., assignor to Best & Company, New York, N. Y. Last. No. 1,141,326; June 1; Gaz. vol. 215; p. 85.
- Gallagher, Edward D., assignor to Best & Company, New York, N. Y. Shoe. No. 1,152,939; Sept. 7; Gaz. vol. 218; p. 206.
- Gallagher, Frederick S., Chicago, Ill., assignor, by mesne assignments, to Waugh Draft Gear Company. Drawbar-centering mechanism. No. 1,156,283; Oct. 12; Gaz. vol. 219; p. 355.
- Gallagher, Hugh C., Milton, Mass. Transportation-case. No. 1,134,525; Apr. 6; Gaz. vol. 213; p. 161.
- Gallagher, Hugh C., Milton, Mass. Manufacture of chocolate in bulk. No. 1,152,166; Aug. 31; Gaz. vol. 217; p. 1559.
- Gallagher, James A., and E. T. Herboltzhelmer, Columbus, Ohio. Trolley-wheel guard. No. 1,142,033; June 8; Gaz. vol. 215; p. 370.
- Gallagher, James F., assignor of one-half to P. J. Lavelle, New York, N. Y. Apparatus for regulating temperature. No. 1,149,818; Aug. 10; Gaz. vol. 217; p. 580.
- Gallagher, James F., assignor of one-half to P. J. Lavelle, New York, N. Y. Apparatus for regulating temperature. No. 1,149,819; Aug. 10; Gaz. vol. 217; p. 581.
- Gallagher, John J. (See Chickering, Frank W., assignor.)
- Gallagher, Joseph D., Glen Ridge, N. J., and H. Jones, Suffern, N. Y., assignors to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,159,007; Nov. 2; Gaz. vol. 220; p. 207.
- Gallagher, Joseph D., Glen Ridge, N. J., and H. Jones, Suffern, N. Y., assignors to American Brake Shoe & Foundry Company, Mahwah, N. J. Composition brake-shoe. No. 1,159,008; Nov. 2; Gaz. vol. 220; p. 207.
- Gallagher, Joseph D., Glen Ridge, N. J., and H. Jones, Suffern, N. Y., assignors to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,159,009; Nov. 2; Gaz. vol. 220; p. 208.
- Gallagher, Joseph D., Glen Ridge, N. J., and H. Jones, Suffern, N. Y., assignors to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,159,010; Nov. 2; Gaz. vol. 220; p. 208.
- Gallagher, Joseph D., Glen Ridge, N. J., and H. Jones, Suffern, N. Y., assignors to American Brake Shoe & Foundry Company, Mahwah, N. J. Forming brake-shoes. No. 1,160,398; Nov. 16; Gaz. vol. 220; p. 783.
- Gallagher, Patrick J. (See Ekman and Gallagher.)
- Gallagher, Peter F., assignor of forty-nine one-hundredths to F. Conniff, Baltimore, Md. Flexible stay-bolt. No. 1,137,600; Apr. 27; Gaz. vol. 213; p. 1367.
- Gallagher, Richard D., Jr., New York, N. Y. Friction-spring. No. 1,146,933; July 20; Gaz. vol. 216; p. 726.
- Gallagher, Richard W., assignor, by mesne assignments, to C. A. Prochaska, New York, N. Y. Carbureter. No. 1,148,485; July 27; Gaz. vol. 216; p. 1297.
- Gallagher, Richard W., assignor, by mesne assignments, to F. B. Tompkins, New York, N. Y. Carbureter. No. 1,163,749; Dec. 14; Gaz. vol. 221; p. 402.
- Gallaher, James B., et al. (See Hoover, George S., assignor.)
- Galland, Charles N., Minneapolis, Minn. Color-printing attachment for printing-presses. No. 1,131,228; Mar. 9; Gaz. vol. 212; p. 515.
- Gallant, Albert R. (See Gallant, James W. and A. R.)
- Gallant, James W. and A. R., Elmore, Ohio. Collapsible building. No. 1,143,697; June 22; Gaz. vol. 215; p. 1014.
- Gallant, John E., assignor of three-fifths to E. R. Batchelder, Boston, Mass. Electric ignition device. No. 1,164,082; Dec. 14; Gaz. vol. 221; p. 518.
- Gallas, Morris, Kansas City, Mo. Tooth-cleaning instrument. No. 1,161,043; Nov. 23; Gaz. vol. 220; p. 1059.
- Gallaspie, James W. (See Willower, Angell, and Gallaspie.)
- Gallaudet, Edson F., Norwich, Conn. Aeroplane. No. 1,145,013; July 6; Gaz. vol. 216; p. 12.
- Gallaudet, Edson F., Norwich, Conn. Aerohydroplane. No. 1,165,770; Dec. 28; Gaz. vol. 221; p. 1186.
- Galleazzi, Joseph, San Francisco, Cal. Transposing mechanism for accordions and the like. No. 1,129,190; Feb. 23; Gaz. vol. 211; p. 1008.
- Galleazzi, Joseph, San Francisco, Cal. Coupling mechanism for organs. No. 1,133,555; Mar. 30; Gaz. vol. 212; p. 1471.
- Galliespie, John W., Denbigh, N. D. Scraper. No. 1,124,006; Jan. 5; Gaz. vol. 210; p. 274.
- Galletti, William. (See Willey and Galletti.)
- Galletti, Roberto C., assignor to Galletti's Wireless Telegraph & Telephone Company Limited, London, England. Wireless transmission of electric energy. No. 1,140,150; May 18; Gaz. vol. 214; p. 929.
- Galletti's Wireless Telegraph & Telephone Company Limited. (See Galletti, Roberto C., assignor.)
- Galley, Elmer T., Huntington Park, Cal. Reversible window. No. 1,166,356; Dec. 28; Gaz. vol. 221; p. 1395.
- Galley, Leonard R., Bernard, Me. Nut-lock. No. 1,161,651; Nov. 23; Gaz. vol. 220; p. 1272.
- Galli, Serafino, Mulberry, Kans. Safety dog or catch for dumping-cages. No. 1,150,818; Aug. 17; Gaz. vol. 217; p. 992.
- Galli, Serafino, Mulberry, Kans. Automatic releasing device for cars upon mining-cages. No. 1,150,819; Aug. 17; Gaz. vol. 217; p. 992.
- Galligan, Edward H., Providence, R. I. Combination commodity. No. 1,132,328; Mar. 16; Gaz. vol. 212; p. 943.
- Galligan, Emmet F., Idaho Springs, assignor of one-half to H. E. Woodward, Denver, and one-fourth to W. H. Galligan, Idaho Springs, Colo. Dust-collector for rock-drills. No. 1,124,605; Jan. 12; Gaz. vol. 210; p. 535.
- Galligan, Emmet F., Idaho Springs, assignor of one-half to H. E. Woodward, Denver, and one-fourth to W. H. Galligan, Idaho Springs, Colo. Dust-collector for rock-drills. No. 1,127,225; Feb. 2; Gaz. vol. 211; p. 197.
- Galligan, Emmet F., Idaho Springs, assignor of one-half to H. E. Woodward, Denver, and one-fourth to W. H. Galligan, Idaho Springs, Colo. Dust-collector for rock-drills. No. 1,125,437; Feb. 16; Gaz. vol. 211; p. 710.
- Galligan, Emmet F., Idaho Springs, assignor of one-half to H. E. Woodward, Denver, and one-fourth to W. H. Galligan, Idaho Springs, Colo. Dust-collector for rock-drills. No. 1,128,674; Feb. 16; Gaz. vol. 211; p. 792.
- Galligan, Emmet F., Idaho Springs, assignor of one-half to H. E. Woodward, Denver, and one-fourth to W. H. Galligan, Idaho Springs, Colo. Dust-collector for rock-drills. No. 1,128,675; Feb. 16; Gaz. vol. 211; p. 792.
- Galligan, Emmet F., Idaho Springs, assignor of one-half to H. E. Woodward, Denver, and one-fourth to W. H. Galligan, Idaho Springs, Colo. Dust-collector for rock-drills. No. 1,131,052; Mar. 9; Gaz. vol. 212; p. 455.
- Galligan, William H., et al. (See Galligan, Emmet F., assignor.)
- Gallinger, Robert O., Seattle, Wash. Horse-feeding device. No. 1,144,936; June 29; Gaz. vol. 215; p. 1470.
- Gallivan, Frank B., assignor to The Newton Company, Newton, Mass. Waterproof leather-board and preparing the same. No. 1,142,953; June 15; Gaz. vol. 215; p. 731.
- Gallo, Enrico, Pittston, Pa. Scrubbing and mopping machine. No. 1,150,025; Aug. 17; Gaz. vol. 217; p. 715.
- Gallo, Enrico, Pittston, Pa. Window-cleaning device. No. 1,165,771; Dec. 28; Gaz. vol. 221; p. 1187.
- Gallo, Ezio, Genoa, Italy. Process and apparatus for having artificial blocks cast or settled on spot to build piers, quays, and like structures. No. 1,137,601; Apr. 27; Gaz. vol. 213; p. 1367.
- Galloway, Douglas, South Fork, Mo. Side curtain for vehicle-tops. No. 1,164,493; Dec. 14; Gaz. vol. 221; p. 660.
- Galloway, Hope L., Southeroff, Kilmacoll, and T. W. Somerville, Hill Top, Elderslie, Scotland. Machine for barking railway-ties and the like. No. 1,127,985; Feb. 9; Gaz. vol. 211; p. 504.
- Galloway, James M., Sunbright, Tenn. Safety railway device. (Reissue.) No. 13,897; Apr. 6; Gaz. vol. 213; p. 324.
- Galloway, Robert A., et al. (See Watts, Ben, assignor.)
- Gallup, Benjamin, Norwich, Conn. Folding shingle-bracket. No. 1,154,855; Sept. 28; Gaz. vol. 218; p. 970.
- Gallup, Benjamin S., Hammond, La. Casement-window operator. No. 1,148,375; July 27; Gaz. vol. 216; p. 1261.
- Gallup, Charles H., assignor of one-half to W. A. Lawrence, Poughkeepsie, N. Y. Horseshoe and detachable calk therefor. No. 1,159,488; Nov. 9; Gaz. vol. 220; p. 408.
- Gallup, Ethel C., New York, N. Y. Cigarette-machine. No. 1,133,951; Mar. 30; Gaz. vol. 212; p. 1610.
- Gallup, Ethel C., New York, N. Y. Self-stropping safety-razor. No. 1,163,521; Dec. 7; Gaz. vol. 221; p. 275.
- Gallup, Frederick L., Media, Pa., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Making granular nitrate of ammonia. No. 1,131,361; Mar. 9; Gaz. vol. 212; p. 560.
- Gallup, George B., Boston, Mass. Fire-extinguisher. No. 1,137,202; Apr. 27; Gaz. vol. 213; p. 1226.
- Gallup, Justin O., Janesville, Wis. Foldable arm-chair. No. 1,162,598; Nov. 30; Gaz. vol. 220; p. 1646.
- Gallup, Rockwell L., Chicago, Ill., assignor, by mesne assignments, to Barry-Wehmiller Machinery Company, St. Louis, Mo. Washing bottles. No. 1,161,467; Nov. 23; Gaz. vol. 220; p. 1211.
- Gallup, Rockwell L., Chicago, Ill., assignor, by mesne assignments, to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle-washing machine. No. 1,161,468; Nov. 23; Gaz. vol. 220; p. 1211.
- Gallup, Rockwell L., Chicago, Ill., assignor, by mesne assignments, to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle-washing machine. No. 1,161,469; Nov. 23; Gaz. vol. 220; p. 1211.
- Gally, Robert A., assignor to The Baldwin Company, Cincinnati, Ohio. Music-player valve. No. 1,153,056; Sept. 7; Gaz. vol. 218; p. 245.
- Galt, Hubert, Chicago, Ill. Device for making coffee. No. 1,134,526; Apr. 6; Gaz. vol. 213; p. 162.

Alphabetical list of patentees—Continued.

- Galusha, Albert L., assignor to H. J. Keith Company, Boston, Mass. Egg-drying apparatus. No. 1,158,477; Nov. 2; Gaz. vol. 220; p. 23.
- Galvin, Michael J., North Bay, Ontario, Canada. Nozzle. No. 1,157,861; Oct. 26; Gaz. vol. 219; p. 1004.
- Galyean, James L., assignor to Waterloo Cement Machinery Corporation, Waterloo, Iowa. Concrete-mixer. No. 1,161,304; Nov. 23; Gaz. vol. 220; p. 1153.
- Gambie, William Y., Brooklyn, N. Y. Dumping-vehicle. No. 1,141,113; June 1; Gaz. vol. 215; p. 8.
- Gambino, Gaspari, Birmingham, Ala. Rubber heel for shoes. No. 1,159,758; Nov. 9; Gaz. vol. 220; p. 506.
- Gamble, Dorothy, New York, N. Y. Clothes-line support. No. 1,137,395; Apr. 27; Gaz. vol. 213; p. 1298.
- Gamble, George R., assignor to himself and P. C. Robinson, C. W. Barwell, and H. W. Ansley, Port Dover, Ontario, Canada. Holder for nipples and other work. No. 1,133,374; Mar. 30; Gaz. vol. 212; p. 1406.
- Gamble, George R., Port Dover, and H. A. Stringer, Simcoe, Ontario, Canada. Pump for oil and gas wells and the like. No. 1,132,329; Mar. 16; Gaz. vol. 212; p. 943.
- Gamble, John, Philadelphia, assignor to G. A. Reach, Bala, Pa. Hockey-glove. No. 1,130,895; Mar. 9; Gaz. vol. 212; p. 402.
- Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Tank construction. No. 1,127,226; Feb. 2; Gaz. vol. 211; p. 198.
- Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Valve. No. 1,152,017; Aug. 31; Gaz. vol. 217; p. 1506.
- Gamble, Stephen E., Petaluma, Cal. Electromagnetic switch. No. 1,129,287; Feb. 23; Gaz. vol. 211; p. 1043.
- Gamble, Walter H., Los Angeles, Cal. Receptacle. No. 1,132,466; Mar. 16; Gaz. vol. 212; p. 992.
- Gamble, Walter H., Los Angeles, Cal. Vehicle-frame. No. 1,134,952; Apr. 6; Gaz. vol. 213; p. 309.
- Gamble, William J., Buffalo, N. Y. Power-hammer. No. 1,151,005; Aug. 24; Gaz. vol. 217; p. 1114.
- Gambon, John M., assignor of one-fourth to W. C. Tieman, St. Louis, Mo. Window-shade fixture. No. 1,134,326; Apr. 6; Gaz. vol. 213; p. 89.
- Gamewell Fire-Alarm Telegraph Company. (See Suren, Nathan H., assignor.)
- Gammache, Frank J., Lancaster, Pa. Cord-adjuster. No. 1,128,305; Feb. 16; Gaz. vol. 211; p. 666.
- Gammage, Arthur L., Everett, Mass. Water-filter. No. 1,163,334; Dec. 7; Gaz. vol. 221; p. 210.
- Gammel, Karl, Cleveland, Ohio. Macaroni die-plate. No. 1,138,101; May 4; Gaz. vol. 214; p. 134.
- Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Die for forming edible pastes. No. 1,159,489; Nov. 9; Gaz. vol. 220; p. 409.
- Gammeter, Harry C., Bratenahl, Ohio. Flying-machine. No. 1,135,009; Apr. 13; Gaz. vol. 213; p. 375.
- Gammeter, Harry C., assignor to American Multigraph Company, Cleveland, Ohio. Paper-ejecting mechanism. No. 1,148,509; Aug. 3; Gaz. vol. 217; p. 9.
- Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Ribbon-feeding mechanism. No. 1,148,962; Aug. 3; Gaz. vol. 217; p. 169.
- Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feeding mechanism. No. 1,148,963; Aug. 3; Gaz. vol. 217; p. 170.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Fabric-tension governor for tire-making machines. No. 1,124,412; Jan. 12; Gaz. vol. 210; p. 465.
- Gammeter, John R., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Producing beads for tires. No. 1,125,303; Jan. 19; Gaz. vol. 210; p. 820.
- Gammeter, John R., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Method of and apparatus for vulcanizing. No. 1,129,084; Feb. 23; Gaz. vol. 211; p. 971.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber bead forming and covering apparatus. No. 1,137,127; Apr. 27; Gaz. vol. 213; p. 1200.
- Gammeter, John R., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Vehicle-tire. No. 1,140,370; May 25; Gaz. vol. 214; p. 1039.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Internal-pressure tire-vulcanizing apparatus. No. 1,164,639; Dec. 21; Gaz. vol. 221; p. 752.
- Gammeter, John R., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Bead-placing ring. No. 1,164,804; Dec. 21; Gaz. vol. 221; p. 800.
- Gammons, Cordella F., et al., executors. (See Gammons, Welcome P., Jr.)
- Gammons, Welcome P., Jr., deceased, New York, N. Y.; C. F. and W. W. Gammons, executors, assignors to W. F. Gammons, Jr., and F. W. Cole, Inc., Wilmington, Del. Sewing hat-leathers into hat-bodies. No. 1,139,662; May 18; Gaz. vol. 214; p. 757.
- Gammons, William W., et al., executors. (See Gammons, Welcome P., Jr.)
- Gandy, Harry P., assignor of one-half to R. Armstrong, Hampton, Va. Fishing device. No. 1,163,078; Dec. 7; Gaz. vol. 221; p. 119.
- Gandy, Wiley N., Athens, La. Back-band. No. 1,129,972; Mar. 2; Gaz. vol. 212; p. 46.
- Gandy, Wiley N., Athens, La. Clamping device for plow stocks and handles. No. 1,154,754; Sept. 28; Gaz. vol. 218; p. 937.
- Gangstad, Morton E., Deerfield, Wis. Attachment for agricultural implements. No. 1,128,438; Feb. 16; Gaz. vol. 211; p. 710.
- Gann, David B. (See Watrous, Edward L., assignor.)
- Gannett, Melvin C., Brooklyn, N. Y. Non-skidding device. No. 1,155,413; Oct. 5; Gaz. vol. 219; p. 31.
- Gannon, Patrick J., Farmington, Minn. Weed-destroying machine. No. 1,152,940; Sept. 7; Gaz. vol. 218; p. 206.
- Gannon, Thomas F., Rochester, N. Y. Excavating and filling apparatus. No. 1,142,692; June 8; Gaz. vol. 215; p. 599.
- Gano, Avery W., Carrollton, Ill. Vehicle wheel-tire. No. 1,154,504; Sept. 21; Gaz. vol. 218; p. 822.
- Gans, Robert, Grunewald-Berlin, Germany. Manufacturing base-exchanging substances. No. 1,140,262; May 18; Gaz. vol. 214; p. 967.
- Gans, Robert, Pankow, near Berlin, assignor to J. D. Riedel Aktiengesellschaft, Berlin, Germany. Production of hydrated aluminosilicates or artificial zeolites. No. 1,131,503; Mar. 9; Gaz. vol. 212; p. 611.
- Ganswindt, Herbert W., Los Angeles, Cal. Safety elevator device. No. 1,142,693; June 8; Gaz. vol. 215; p. 599.
- Gant, Jesse B., Witney, Tex. Cotton-chopper. No. 1,132,656; Mar. 23; Gaz. vol. 212; p. 1111.
- Gantvoort, Johannus M., Fishkill Landing, N. Y. Baking apparatus. No. 1,155,172; Apr. 13; Gaz. vol. 218; p. 431.
- Gauzer, John M., Poughkeepsie, N. Y. Fireman's helmet. No. 1,139,177; May 11; Gaz. vol. 214; p. 551.
- Garaughty, William F., Columbus, Ohio. Game. No. 1,146,242; July 13; Gaz. vol. 216; p. 464.
- Garay, John, Filbert, W. Va. Combined rail chair and joint. No. 1,141,954; June 8; Gaz. vol. 215; p. 340.
- Garbe, Charles, Paris, France. Distributing-valve. No. 1,124,127; Jan. 5; Gaz. vol. 210; p. 316.
- Garbeil, Abraham, et al. (See Friedman, Bernard, assignor.)
- Garber, Adolph B., et al. (See Thrasher, John W., assignor.)
- Garber, Jesse B., assignor to The Deming Company, Salem, Ohio. Check-valve. No. 1,160,707; Nov. 16; Gaz. vol. 220; p. 897.
- Garber, John M., G. E. Woods, and H. S. Jacobson, assignors to The Collapsible Metallic Box Company, Pittsburgh, Pa. Folding receptacle. No. 1,128,676; Feb. 16; Gaz. vol. 211; p. 793.
- Garcelon, George H., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Lubricating device. No. 1,150,026; Aug. 17; Gaz. vol. 217; p. 715.
- Gardella, Lawrence. (See Hill and Gardella.)
- Gardella, Lawrence, Oroville, Cal. Metallic stacker. No. 1,124,722; Jan. 12; Gaz. vol. 210; p. 578.
- Gardiner, Anwyll O., assignor of one-half to D. Knabbe and one-half to D. Knabbe, Oakland, Cal. Nut-lock. No. 1,164,494; Dec. 14; Gaz. vol. 221; p. 661.
- Gardiner, George H., New York, N. Y., assignor, by mesne assignments, to Wichert & Gardiner. Shoe. No. 1,163,522; Dec. 7; Gaz. vol. 221; p. 275.
- Gardiner, George H., New York, N. Y., assignor to Wichert & Gardiner. Shoe. No. 1,163,523; Dec. 7; Gaz. vol. 221; p. 276.
- Gardiner, George H., New York, N. Y., assignor to Wichert & Gardiner. Shoe. No. 1,163,524; Dec. 7; Gaz. vol. 221; p. 276.
- Gardiner, John F. (See Taylor and Gardiner.)
- Gardiner, William H., Jr., Chicago, Ill., assignor to Consolidated Car-Heating Company, Albany, N. Y. Convertible steam-heating system. No. 1,160,875; Nov. 16; Gaz. vol. 220; p. 954.
- Gardner, Adelbert L., Chicago, Ill., assignor of one-half to C. H. Gardner. Meat-slicing machine. No. 1,152,623; Sept. 7; Gaz. vol. 218; p. 89.
- Gardner, Alice M., executrix. (See Gardner, Frederick N. and F. E.)
- Gardner, Andrew M. (See Chamberlin and Gardner.)
- Gardner, Charlie J., International Falls, Minn. Street-sweeper. No. 1,142,415; June 8; Gaz. vol. 215; p. 505.
- Gardner, Clyde E. W., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Carriage for recording mechanism. No. 1,151,454; Aug. 24; Gaz. vol. 217; p. 1264.
- Gardner, Clyde E. W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Carriage for recording machines. No. 1,154,504; Sept. 21; Gaz. vol. 218; p. 754.
- Gardner, Curtis H. (See Gardner, Adelbert L., assignor.)
- Gardner, Frank P., Boston, Mass. Gage-glass shield and reflector. No. 1,131,692; Mar. 16; Gaz. vol. 212; p. 710.
- Gardner, Frederic E. (See Gardner, Frederick N. and F. E.)

Alphabetical list of patentees—Continued.

- Gardner, Frederick N., deceased, and F. E. Gardner, assignors of one-third to L. W. Thompson, Beloit, Wis.; A. M. Gardner, executrix. Vertical-spindle disk grinder. No. 1,145,189; July 6; Gaz. vol. 216; p. 75.
- Gardner, Frederick N., deceased, and F. E. Gardner, assignors of one-third to L. W. Thompson, Beloit, Wis.; A. M. Gardner, executrix. Press for attaching abrasive disks to the wheels of disk grinders. No. 1,145,190; July 6; Gaz. vol. 216; p. 75.
- Gardner, Frederick N., deceased, (A. M. Gardner, executrix,) and F. E. Gardner, assignors of one-third to L. W. Thompson, Beloit, Wis. Disk grinder. No. 1,155,414; Oct. 5; Gaz. vol. 219; p. 32.
- Gardner, George, South Melbourne, Victoria, Australia. Box-ld. No. 1,141,625; June 1; Gaz. vol. 215; p. 191.
- Gardner, George B., Haverhill, Mass. Rake-cleaning attachment. No. 1,136,002; Apr. 20; Gaz. vol. 213; p. 763.
- Gardner, George B., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-part shoe-turning machine. No. 1,125,506; Jan. 19; Gaz. vol. 210; p. 891.
- Gardner, George B., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-turning machine. No. 1,140,454; May 25; Gaz. vol. 214; p. 1069.
- Gardner, George C., and J. A. Grow, assignors to The Tredegar Company, Richmond, Va. Engine-lathe. No. 1,139,026; May 11; Gaz. vol. 214; p. 499.
- Gardner, Henri F., Orange, Cal. Irrigating-valve. No. 1,140,510; May 25; Gaz. vol. 214; p. 1091.
- Gardner, Henry A., Washington, D. C. Making barium chlorid. No. 1,146,491; July 13; Gaz. vol. 216; p. 553.
- Gardner, Henry A., Washington, D. C. Rendering wood fire-resisting. No. 1,148,013; July 27; Gaz. vol. 216; p. 1130.
- Gardner, Horace C., Chicago, Ill. Apparatus for condensing ammonia from a gaseous to a liquid state. No. 1,129,477; Feb. 23; Gaz. vol. 211; p. 1110.
- Gardner, Horace T., Albuquerque, N. Mex. Broom. No. 1,152,167; Aug. 31; Gaz. vol. 217; p. 1559.
- Gardner, James P., Chicago, Ill., assignor to The Reducing Machine Company. Body-treatment machine. No. 1,134,084; Mar. 30; Gaz. vol. 212; p. 1654.
- Gardner, John, Knott End, near Fleetwood, England. Sound-receiving apparatus used in submarine sound-signaling. No. 1,129,565; Feb. 23; Gaz. vol. 211; p. 1141.
- Gardner, John, Knott End, near Fleetwood, England. Gyroscope. No. 1,136,666; Apr. 20; Gaz. vol. 213; p. 997.
- Gardner, John H., Dalton, Ga. Starting device. No. 1,124,007; Jan. 5; Gaz. vol. 210; p. 274.
- Gardner, John W., assignor to C. W. Ferguson Collar Company, Troy, N. Y. Collar. No. 1,132,254; Mar. 16; Gaz. vol. 212; p. 916.
- Gardner, Joseph A., Memphis, Tenn. Artificial tooth. No. 1,139,265; May 11; Gaz. vol. 214; p. 580.
- Gardner, Joshua G., assignor to Southern Rosin Turpentine Company, Daytona, Fla. Turpentine process. No. 1,124,606; Jan. 12; Gaz. vol. 210; p. 536.
- Gardner, Joshua G., assignor to Southern Rosin-Turpentine Company, Daytona, Fla. Turpentine-retort. No. 1,124,607; Jan. 12; Gaz. vol. 210; p. 536.
- Gardner, Levi S., Shreveport, La. Visible carbureter. No. 1,146,150; July 13; Gaz. vol. 216; p. 432.
- Gardner, Marshall B., assignor to International Corset Company, Aurora, Ill. Device for cutting stays and applying tips thereto. No. 1,137,396; Apr. 27; Gaz. vol. 213; p. 1298.
- Gardner, Otto, Hoboken, N. J., assignor to Gem Construction Co. Motor-vehicle. No. 1,154,755; Sept. 28; Gaz. vol. 218; p. 938.
- Gardner, Prince A., St. Louis, Mo. Embossing-machine. No. 1,143,379; June 15; Gaz. vol. 215; p. 881.
- Gardner, Russell E. (See Collison, Edward E., assignor.)
- Gardner, Sarah M. H., Andover, Mass. Table-toaster. No. 1,128,866; Feb. 16; Gaz. vol. 211; p. 858.
- Gardner, William H., Sutherland, Saskatchewan, Canada. Window-ventilator. No. 1,123,726; Jan. 5; Gaz. vol. 210; p. 180.
- Gardner, William R. (See Garlitz and Gardner.)
- Gardner, William R., assignor to American Beet Topper Company, Los Angeles, Cal. Beet-topper. No. 1,135,173; Apr. 13; Gaz. vol. 213; p. 432.
- Gare, Thomas, New Brighton, England. Reclaiming old or waste vulcanized india-rubber. No. 1,133,952; Mar. 30; Gaz. vol. 212; p. 1611.
- Gare, Thomas, New Brighton, England. Manufacturing rubber articles. No. 1,163,525; Dec. 7; Gaz. vol. 221; p. 276.
- Gare, Thomas, Birmingham, England. Manufacturing continuous lengths of vulcanized rubber combined with ebonite. No. 1,146,699; July 13; Gaz. vol. 216; p. 623.
- Gareau, Ferdinand, assignor of one-half to S. Proulx, Montreal, Quebec, Canada. Smoke-consuming apparatus for boiler-furnaces. No. 1,135,275; Apr. 13; Gaz. vol. 213; p. 466.
- Garen, Odene M., Springfield, Mass. Thread-removing implement. No. 1,131,504; Mar. 9; Gaz. vol. 212; p. 611.
- Garey, George G., Indianapolis, Ind. Heating stove and furnace. No. 1,139,857; May 18; Gaz. vol. 214; p. 824.
- Garfield, Samuel, Farmington township, Warren county, Pa. Potato-separator. No. 1,123,514; Jan. 5; Gaz. vol. 210; p. 108.
- Garford Manufacturing Company, The. (See Beyland, Sidney A., assignor.)
- Garford Manufacturing Company, The. (See Dean, William W., assignor.)
- Garford Manufacturing Company, The. (See Eaton, Richard M., assignor.)
- Garford Manufacturing Company, The. (See Harris, Harvey L., assignor.)
- Garford Manufacturing Company, The. (See Libby, Albion D. T., assignor.)
- Garford Manufacturing Company, The. (See Manson, Ray H., assignor.)
- Garforth, William E. (See Fisher, Horace, assignor.)
- Garforth, William E. (See Fisher and Garforth.)
- Gargam, Emmanuel, R.-B. Gouget de Casteras, and N.-J.-M.-L. Jeanjean, Paris, France. Stand for sorting mail-matter. No. 1,126,977; Feb. 2; Gaz. vol. 211; p. 109.
- Garhart, Nathan K., Watertown, Mass. Amalgam-mixer. No. 1,159,206; Nov. 2; Gaz. vol. 220; p. 278.
- Garland, John G., High Point, N. C. Nut-lock. No. 1,131,053; Mar. 9; Gaz. vol. 212; p. 455.
- Garland, Thomas H., Chicago, Ill. Ventilator. No. 1,131,362; Mar. 9; Gaz. vol. 212; p. 561.
- Garland, Thomas H., Chicago, Ill. Ventilating apparatus. No. 1,163,138; Dec. 7; Gaz. vol. 221; p. 140.
- Garlick, James D., assignor of one-fourth to W. S. Bryce, Port Huron, Mich. Tire for motor-driven vehicles. No. 1,161,470; Nov. 23; Gaz. vol. 220; p. 1212.
- Garlick, Mark J., Dallas, Tex. Paper-guide for printing-presses. No. 1,159,011; Nov. 2; Gaz. vol. 220; p. 208.
- Garlitz, William T., and W. R. Gardner, McKees Rocks, Pa. Cartridge-fuse. No. 1,135,010; Apr. 13; Gaz. vol. 213; p. 376.
- Garlock Auto Specialty Company. (See Whiting, Herman E., assignor.)
- Garlow, C. J., et al. (See Lawrence, Daniel O., assignor.)
- Garman, Lawrence M., El Reno, Okla. Signal-bell for bowling-alleys. No. 1,146,492; July 13; Gaz. vol. 216; p. 553.
- Garner, James B., Pittsburgh, Pa., assignor to Metals Research Company, New York, N. Y. Recovery of sulfur dioxide. No. 1,145,579; July 6; Gaz. vol. 216; p. 210.
- Garner, Joseph C., and W. Gutman, Detroit, Mich. Branding-iron. No. 1,157,687; Oct. 26; Gaz. vol. 219; p. 944.
- Garner, Vernon, assignor to United Printing Machinery Company, Boston, Mass. Multiple-sheet detector for paper-feeding. No. 1,142,247; June 8; Gaz. vol. 215; p. 445.
- Garner, Vernon, assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding machine. No. 1,149,573; Aug. 10; Gaz. vol. 217; p. 489.
- Garner, Vernon, assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding machine. No. 1,149,574; Aug. 10; Gaz. vol. 217; p. 489.
- Garner, Vernon, assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding machine. No. 1,161,933; Nov. 30; Gaz. vol. 220; p. 1418.
- Garnett, David H. (See Holtzclaw and Garnett.)
- Garnier, Louis, San Diego, Cal. Sack-holding and weighing device. No. 1,146,061; July 13; Gaz. vol. 216; p. 400.
- Garniss, Frank, Somerset, Mass. Carding-machine. No. 1,149,820; Aug. 10; Gaz. vol. 217; p. 581.
- Garoutte, Thomas W., et al. (See Patterson, Lewis P., assignor.)
- Garoutte, William B., et al. (See Patterson, Lewis P., assignor.)
- Garrand, Eugene A., Camden, N. J., assignor to Philadelphia Gear Works, Philadelphia, Pa. Slip-gear. No. 1,165,772; Dec. 28; Gaz. vol. 221; p. 1187.
- Garraux, Eugene, Baltimore, Md. Broiler. No. 1,133,850; Mar. 30; Gaz. vol. 212; p. 1578.
- Garraway, Lee O., Memphis, Tenn. Folding step-ladder. No. 1,165,588; Dec. 28; Gaz. vol. 221; p. 1121.
- Garren, Lewis A., Oskaloosa, Kans. Pillow-bolder. No. 1,144,187; June 22; Gaz. vol. 215; p. 1186.
- Garretson, David I., Brooklyn, N. Y. Sad-iron. No. 1,146,863; July 20; Gaz. vol. 216; p. 699.
- Garretson, David I., New York, N. Y. Horseshoe. No. 1,149,359; Aug. 10; Gaz. vol. 217; p. 414.
- Garretson, Eugene, Buffalo, N. Y. Magnetometer. No. 1,143,529; June 15; Gaz. vol. 215; p. 931.
- Garretson, Eugene, and E. W. Schlenker, Buffalo, N. Y. Thermo-electric generator. No. 1,162,049; Nov. 30; Gaz. vol. 220; p. 1458.
- Garrett, Albert E., St. Albans, England. Treatment of woolen goods. No. 1,147,011; July 20; Gaz. vol. 216; p. 753.
- Garrett, Frederick W., assignor to E. Newey, Birmingham, England. Chucking mechanism for machine-tools. No. 1,124,008; Jan. 5; Gaz. vol. 210; p. 275.
- Garrett, James C., San Francisco, Cal., assignor, by mesne assignments, to G. T. Crammer, trustee, Trenton, N. J. Voting-machine. No. 1,131,363; Mar. 9; Gaz. vol. 212; p. 561.

Alphabetical list of patentees—Continued.

- Garrett, Thomas S., Seattle, Wash. Transferring and aligning machine. No. 1,132,840; Mar. 23; Gaz. vol. 212; p. 1179.
- Garrett, Thomas S., Seattle, Wash. Shingle-machine. No. 1,164,936; Dec. 21; Gaz. vol. 221; p. 856.
- Garrett, William B., Thermopolis, Wyo. Electric time-switch. No. 1,146,151; July 13; Gaz. vol. 216; p. 432.
- Garrette, John E., Cincinnati, Ohio, assignor of one-third to J. M. Wagner and one-third to A. Fuerhammer, Chicago, Ill. Method of and apparatus for producing and exhibiting composite pictures. No. 1,156,896; Oct. 19; Gaz. vol. 219; p. 602.
- Garris, James A. (See Thompson and Garris.)
- Garrison, Almond H., Davisburg, Mich. Tire structure. No. 1,145,580; July 6; Gaz. vol. 216; p. 210.
- Garrison, Charles, Cambridge, assignor to American Life Saving Garment Company, Boston, Mass. Swimming appliance and life-preserver. No. 1,164,180; Dec. 14; Gaz. vol. 221; p. 550.
- Garrison, Lloyd, Portland, Oreg. Drilling-machine. No. 1,146,243; July 13; Gaz. vol. 216; p. 465.
- Garrison, Russell, and G. W. Whipple, Cherryvale, Kans. Clay-molding machine. No. 1,147,627; July 20; Gaz. vol. 216; p. 968.
- Garrison, William J., Sheffield, Pa. Vault-light. No. 1,155,348; Oct. 5; Gaz. vol. 219; p. 9.
- Garrison, Henry R., Logansport, Ind. Basket. No. 1,153,057; Sept. 7; Gaz. vol. 218; p. 246.
- Garrity, George F., Scranton, Pa. Spring. No. 1,140,455; May 25; Gaz. vol. 214; p. 1070.
- Garros, Benjamin, assignor of twenty-five one-hundredths to C. E. Allinger, twenty-five one-hundredths to C. A. Strelinger, twenty-five one-hundredths to C. T. Bush, and twenty-five one-hundredths to M. E. Jones, Detroit, Mich. Device for automatically controlling moving-picture machines. No. 1,138,744; May 11; Gaz. vol. 214; p. 397.
- Garrott, John C., Houston, Tex. Float-valve. No. 1,150,513; Aug. 17; Gaz. vol. 217; p. 887.
- Garrow, Adhemor J., Chicopee Falls, Mass. Self-regulating apparatus for tanks. No. 1,165,356; Dec. 21; Gaz. vol. 221; p. 1001.
- Garske, Charles A., Omaha, Nebr. Inhaler. No. 1,139,357; May 11; Gaz. vol. 214; p. 611.
- Garst, Dudley, Waterloo, Iowa. Manure-spreader. No. 1,140,371; May 25; Gaz. vol. 214; p. 1039.
- Garst, Dudley, Waterloo, Iowa. Straw-spreader. No. 1,147,012; July 20; Gaz. vol. 216; p. 753.
- Garst, Stephen H., Moline, Ill. Front truck for manure-spreaders. No. 1,127,429; Feb. 9; Gaz. vol. 211; p. 308.
- Garst, Stephen H., Moline, Ill. Manure-spreader. No. 1,146,152; July 13; Gaz. vol. 216; p. 432.
- Garstang, James E., assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Grass-catcher for lawnmowers. No. 1,125,507; Jan. 19; Gaz. vol. 210; p. 892.
- Garstang, Richard, Los Angeles, Cal. Grass-burner. No. 1,124,723; Jan. 12; Gaz. vol. 210; p. 578.
- Garth, Hollan. (See Bellwood and Garth.)
- Garthland, Charles J., San Francisco, Cal. Combination-tool. No. 1,163,230; Dec. 7; Gaz. vol. 221; p. 173.
- Gartner, Rudolf, Elberfeld, and G. Köhres, Leverkusen-on-the-Rhine, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Triarylmethane dyestuff. No. 1,149,575; Aug. 10; Gaz. vol. 217; p. 490.
- Gartrell, Charles B. and C. W., Kansas City, Mo. Camera. No. 1,159,580; Nov. 9; Gaz. vol. 220; p. 441.
- Gartrell, Charles W. (See Gartrell, Charles B. and C. W.)
- Garver, Uriah D. (See Van Leir and Garver.)
- Garvey, Christopher A., et al. (See McCauley, Albert J., assignor.)
- Garvey, James D., Chicago, Ill. Brush. No. 1,144,355; June 29; Gaz. vol. 215; p. 1273.
- Garvin, Benjamin, assignor to American Sanitary Lock Company, Indianapolis, Ind. Coin-controlled lock. No. 1,132,467; Mar. 16; Gaz. vol. 212; p. 992.
- Garvin, George J. (See Nyberg, Frank R., assignor.)
- Garvin, Samuel, Terre Haute, Ind. Springless lock. No. 1,152,723; Sept. 7; Gaz. vol. 218; p. 126.
- Garwood Company. (See Focardi, Pier-Luigi, assignor.)
- Garwood Company. (See Newhall and Hiscock, assignors.)
- Gary, Shirley L., South Richmond, Va. Dethreading attachment for stay-bolt machines. No. 1,131,364; Mar. 9; Gaz. vol. 212; p. 561.
- Gas Crude Oil Burner Company, The. (See Felten, David F., assignor.)
- Gas Machinery Company, The. (See Peiter, Frederick, assignor.)
- Gas Meter Company Limited, The. (See Britton, John W., assignor.)
- Gas and Oil Combustion Company. (See Lucke, Charles E., assignor.)
- Gas Traction Company. (See Hartsough, D. Maurice, assignor.)
- Gasau, Otto, Brooklyn, N. Y. Mattress-frame. No. 1,149,360; Aug. 10; Gaz. vol. 217; p. 415.
- Gase, George A. (See Southworth and Gase.)
- Gase, George A., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Check-valve. No. 1,139,455; May 11; Gaz. vol. 214; p. 647.
- Gase, George A., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Check-valve. No. 1,142,513; June 8; Gaz. vol. 215; p. 540.
- Gase, George A., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Refrigeration. No. 1,162,346; Nov. 30; Gaz. vol. 220; p. 1562.
- Gase, George A., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Gas-regulator. No. 1,162,347; Nov. 30; Gaz. vol. 220; p. 1563.
- Gase, George A., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Controlling device for refrigerating apparatus. No. 1,162,348; Nov. 30; Gaz. vol. 220; p. 1563.
- Gase, George A., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Check-valve. No. 1,164,342; Dec. 14; Gaz. vol. 221; p. 608.
- Gaskill, Elijah T., assignor of one-half to J. A. Bryan, Newbern, N. C. Sash-frame-holding means. No. 1,142,954; June 15; Gaz. vol. 215; p. 731.
- Gaskill, Zeb. (See Warner, Mahlon, assignor.)
- Gaskin, Thomas H., Woodford, Essex, England. Reversible boat. No. 1,160,062; Nov. 9; Gaz. vol. 220; p. 611.
- Gaskins, Jesse S., Nashville, Ga. Lubricator. No. 1,132,330; Mar. 16; Gaz. vol. 212; p. 944.
- Gáspár, Bernát, Miskolcz, Austria-Hungary. Restraining device. No. 1,136,396; Apr. 20; Gaz. vol. 213; p. 903.
- Gass, Emery, Fibre, Mich. Clamp for supporters. No. 1,149,905; Aug. 10; Gaz. vol. 217; p. 611.
- Gass, John. (See Maxwell, William T., assignor.)
- Gassaway, John H., assignor of one-half to S. Hurst, Haworth, Okla. Automatic rat-trap. No. 1,162,599; Nov. 30; Gaz. vol. 220; p. 1646.
- Gasse, Joseph A., Claremont, N. H. Signal-controlling means for railway-gates. No. 1,128,439; Feb. 16; Gaz. vol. 211; p. 710.
- Gasse, Joseph A., Brockton, Mass. Gate-controlling mechanism for railways. No. 1,142,319; June 8; Gaz. vol. 215; p. 469.
- Gassett, Arthur L., Cleveland, Ohio. Water-heater. No. 1,149,576; Aug. 10; Gaz. vol. 217; p. 490.
- Gastrom, Herman, assignor to Dahl Manufacturing Company, New York, N. Y. Structure made of relatively movable and interlocking sections. No. 1,159,012; Nov. 2; Gaz. vol. 220; p. 209.
- Gast, Adolph W., Chicago, Ill. Letter-box. No. 1,153,548; Sept. 14; Gaz. vol. 218; p. 459.
- Gast, Hermann T. F., Carlisle, England. Apparatus for cleaning hair-brushes. No. 1,152,168; Aug. 31; Gaz. vol. 217; p. 1559.
- Gast, Oscar. (See Szemerey, Geza, assignor.)
- Gaston, Creth H. (See Gaston, Ralph F. and C. H.)
- Gaston, Harry W., New York, N. Y., assignor, by mesne assignments, to Rives Adjustable Pedal Pad Co., Inc. Adjustable pedal-pad. No. 1,159,923; Nov. 9; Gaz. vol. 220; p. 566.
- Gaston, James E., and O. C. Hood, assignors to A. B. Gaston Company, Cochran, Pa. Fertilizer-sower. No. 1,125,508; Jan. 19; Gaz. vol. 210; p. 892.
- Gaston, Ralph F. and C. H., Woodward, Okla. Surface-mulcher. No. 1,145,136; July 6; Gaz. vol. 216; p. 56.
- Gatchell, George S. (See Molyneux and Gatchell.)
- Gatchell, George S., Roselle Park, N. J., assignor to The Sliger Manufacturing Company. Button-sewing machine. No. 1,140,372; May 25; Gaz. vol. 214; p. 1040.
- Gately, John, Gretna, Nebr. Grain-separator. No. 1,124,128; Jan. 5; Gaz. vol. 210; p. 316.
- Gater, William, Shanghai, China. Appliance suitable for life-saving at sea. No. 1,132,468; Mar. 16; Gaz. vol. 212; p. 992.
- Gates, Archie B., Peterborough, Ontario, Canada. Lamp. No. 1,137,204; Apr. 27; Gaz. vol. 213; p. 1227.
- Gates, Arthur L., assignor of one-half to J. F. Mergen, Cawker City, Kans. Enlarging-camera. No. 1,155,142; Sept. 28; Gaz. vol. 218; p. 1071.
- Gates, Bernard W., Washington, D. C. Structural imitation of natural objects. No. 1,150,027; Aug. 17; Gaz. vol. 217; p. 716.
- Gates, Frank M., Lents, Oreg. Stove. No. 1,127,613; Feb. 9; Gaz. vol. 211; p. 371.
- Gates, Frank M., Lents, Oreg., assignor to himself, and W. J. Baker, Newport, Ky. Stove. No. 1,143,581; June 15; Gaz. vol. 215; p. 950.
- Gates, Frank S., et al. (See Barker, Cloyd K., assignor.)
- Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,134,732; Apr. 6; Gaz. vol. 213; p. 237.
- Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Key. No. 1,160,064; Nov. 9; Gaz. vol. 220; p. 612.
- Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Switch-handle. No. 1,160,345; Dec. 28; Gaz. vol. 221; p. 1391.
- Gates, Frederic P., and G. A. Gauthier, assignors to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 1,160,063; Nov. 9; Gaz. vol. 220; p. 612.
- Gates, Harry C., Proctor, Vt. Lifter. No. 1,156,138; Oct. 12; Gaz. vol. 219; p. 309.
- Gates, Quincy A. (See Bunnell and Gates.)
- Gates, Wilber. (See Eveland, John L., assignor.)

Alphabetical list of patentees—Continued.

- Gates, William H., New Haven, Conn. Self-opening adjustable die-head. No. 1,148,510; Aug. 3; Gaz. vol. 217; p. 9.
- Gates, William H., assignor to Eastern Machine Screw Corporation, New Haven, Conn. Spark-plug. No. 1,141,052; May 25; Gaz. vol. 214; p. 1278.
- Gatewood, William F., Pierce City, Mo., assignor to Simplex Adding Machine Company, San Antonio, Tex. Adding-machine. No. 1,123,515; Jan. 5; Gaz. vol. 210; p. 109.
- Gathmann, Emil, Baltimore, Md. Ingot-mold. No. No. 1,137,264; Apr. 27; Gaz. vol. 213; p. 1251.
- Gathright, Josiah B., Louisville, Ky. Girthing means for riding-saddles. No. 1,145,477; July 6; Gaz. vol. 216; p. 177.
- Gathright, Josiah B., Louisville, Ky. Lock for straps of mail-bags. No. 1,145,478; July 6; Gaz. vol. 216; p. 177.
- Gatzki, Gottlieb. (See Barnett, Solomon V., assignor.)
- Gau, Henry, Pierz, Minn. Means for automatically unlocking doors or gates. No. 1,148,161; July 27; Gaz. vol. 216; p. 1185.
- Gaube, Ernest W., deceased, Cleveland, Ohio; I. A. Gaube, executrix. Machine for sealing and crimping tubes. No. 1,155,143; Sept. 28; Gaz. vol. 218; p. 1071.
- Gaube, Ida A., executrix. (See Gaube, Ernest W.)
- Gauch, Orlando S., assignor to The Shelby Printing Company, Shelby, Ohio. Thumb-piece for manifold sales or order books. No. 1,157,377; Oct. 19; Gaz. vol. 219; p. 773.
- Gaudet, Wilfred, Chicago, Ill. Magic pencil. No. 1,159,013; Nov. 2; Gaz. vol. 220; p. 209.
- Gaudron, Edward N., assignor to W. Dixon, Newark, N. J. Rotary brush. No. 1,123,516; Jan. 5; Gaz. vol. 210; p. 109.
- Gaughran, Edward. (See Lacey and Gaughran.)
- Gaul, Godfried J., assignor to Daprato Statuary Company, Chicago, Ill. Sounding-board. No. 1,130,505; Mar. 2; Gaz. vol. 212; p. 234.
- Gaulocher, Constance M., and J. N. Stacy, New York, N. Y. Finishing wall-surfaces. No. 1,160,708; Nov. 16; Gaz. vol. 220; p. 897.
- Gault, Alva E., Eustis, Nebr. Stroke-regulator for wind-mill-pumps. No. 1,138,550; May 4; Gaz. vol. 214; p. 289.
- Gault, Matthew, and A. L. Fales, Worcester, Mass.; said Fales assignor to said Gault. Sprinkler-nozzle. No. 1,165,240; Dec. 21; Gaz. vol. 221; p. 962.
- Gaume, Lamy A., Danville, Kans. Disk-sled attachment. No. 1,159,660; Nov. 9; Gaz. vol. 220; p. 469.
- Gaumer, Victor, Paris, France. Safety device for inflammable-material containers. No. 1,134,838; Apr. 6; Gaz. vol. 213; p. 272.
- Gaumont, Léon, Paris, France. Photographic or cinematographic film. No. 1,159,924; Nov. 9; Gaz. vol. 220; p. 566.
- Gaumont, Léon, assignor to Société des Etablissements Gaumont, Paris, France. Means for synchronously displaying cinematographic pictures and reproducing sound. No. 1,144,339; June 22; Gaz. vol. 215; p. 1239.
- Gaumont, Léon, assignor to Société des Etablissements Gaumont, Paris, France. Synchronizing device. No. 1,163,079; Dec. 7; Gaz. vol. 221; p. 120.
- Gaunt, Joseph S., Manchester, and H. Dyson, Huddersfield, England. Frame for continuous spinning, doubling, and the like. No. 1,151,173; Aug. 24; Gaz. vol. 217; p. 1171.
- Gaus, Wilhelm, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Electrolyzing alkali-chlorid solution. No. 1,126,627; Jan. 26; Gaz. vol. 210; p. 1329.
- Gause, Frederick T., assignor to Standard Oil Company of New York, New York, N. Y. Candlestick. No. 1,152,724; Sept. 7; Gaz. vol. 218; p. 126.
- Gause, Isaac, National Soldiers Home, Elizabeth City county, Va. Car-coupling. No. 1,140,976; May 25; Gaz. vol. 214; p. 1253.
- Gause, Isaac, National Soldiers' Home, Va. Separable button. No. 1,149,124; Aug. 3; Gaz. vol. 217; p. 223.
- Gausman, Edward, Central City, Nebr. Fender-shovel. No. 1,154,965; Dec. 28; Gaz. vol. 221; p. 1252.
- Gauthier, Clarence E., West Springfield, Mass. Extension car-step. No. 1,130,390; Mar. 2; Gaz. vol. 212; p. 191.
- Gauthier, Frank J. (See Gauthier, Norman J. and F. J.)
- Gauthier, George A. (See Gates and Gauthier.)
- Gauthier, George A., assignor to The Arrow Electric Company, Hartford, Conn. Outlet-box bushing. No. 1,129,973; Mar. 2; Gaz. vol. 212; p. 47.
- Gauthier, George A., assignor to The Arrow Electric Company, Hartford, Conn. Binding-post. No. 1,142,416; June 8; Gaz. vol. 215; p. 505.
- Gauthier, George A., assignor to The Arrow Electric Company, Hartford, Conn. Shade-holder. No. 1,156,473; Oct. 12; Gaz. vol. 219; p. 425.
- Gauthier, George A., assignor to The Arrow Electric Company, Hartford, Conn. Attachment-plug receptacle. No. 1,159,207; Nov. 2; Gaz. vol. 220; p. 278.
- Gauthier, Norman J., Berwyn, and F. J. Gauthier, Chicago, Ill. Blanket for printing-press cylinders. No. 1,140,511; May 25; Gaz. vol. 214; p. 1091.
- Gauthier, Phibia, Lowell, Mass. Spring-tire. No. 1,159,759; Nov. 9; Gaz. vol. 220; p. 506.
- Gautier, Claude M., Putney, London, England. Armoring pneumatic tires. No. 1,143,265; June 15; Gaz. vol. 215; p. 841.
- Gautreau, Léopold J., Paris, France. Burner for liquid fuel. No. 1,145,362; July 6; Gaz. vol. 216; p. 134.
- Gautschi, Henry, Evanston, Ill. Threading-machine. No. 1,152,502; Sept. 7; Gaz. vol. 218; p. 43.
- Gauvreau, Jules, Quebec, Quebec, Canada. Identification-tag. No. 1,151,940; Aug. 31; Gaz. vol. 217; p. 1479.
- Gavaza Bottle Cap Company. (See Gavaza, Cecil V., assignor.)
- Gavaza, Cecil V., Boston, assignor, by mesne assignments, to Gavaza Bottle Cap Company, Jamaica Plain, Mass. Bottle-cap. No. 1,127,357; Feb. 2; Gaz. vol. 211; p. 241.
- Gavin, George B., Braintree, Mass. Printing device. No. 1,158,478; Nov. 2; Gaz. vol. 220; p. 23.
- Gavin, Henry W., Edinburgh, Scotland. Holding and disengaging gear for ships' boats. No. 1,139,116; May 11; Gaz. vol. 214; p. 530.
- Gavin, John E., Buffalo, N. Y. Egg-box. No. 1,161,652; Nov. 23; Gaz. vol. 220; p. 1273.
- Gavin, Richard E. (See Ellis, Fenwick L., assignor.)
- Gavura, John J., Johnstown, Pa. Automatic train-stopping apparatus. No. 1,126,191; Jan. 26; Gaz. vol. 210; p. 1172.
- Gaw, William C., Cleveland, Ohio. Painter's platform. No. 1,142,955; June 15; Gaz. vol. 215; p. 731.
- Gay, Cassius M., Los Angeles, Cal. Gas-engine. No. 1,151,455; Aug. 24; Gaz. vol. 217; p. 1264.
- Gay, Cassius M., Los Angeles, Cal. Refrigerating apparatus. No. 1,156,525; Oct. 12; Gaz. vol. 219; p. 443.
- Gay, Gilbert E., Damariscotta, Me. Spring-wheel. No. 1,132,469; Mar. 16; Gaz. vol. 212; p. 993.
- Gay, Harold S., and E. W. Duke, Los Angeles, Cal., assignors to Stereo-Annunciator Co. Device for producing images. No. 1,146,323; July 13; Gaz. vol. 216; p. 491.
- Gay, Herman T., Baltimore, Md., assignor, by mesne assignments, to Protection Company, Incorporated. Burglar-alarm. No. 1,155,144; Sept. 28; Gaz. vol. 218; p. 1072.
- Gay, James B., Toronto, Ontario, Canada. Means for repairing pneumatic vehicle-tires. No. 1,161,044; Nov. 23; Gaz. vol. 220; p. 1059.
- Gay, Loyd J., Brookfield, Ga. Lifting-jack. No. 1,134,447; Apr. 6; Gaz. vol. 213; p. 133.
- Gay, Samuel S., Sedro Woolley, Wash. Pneumatic insole. No. 1,148,376; July 27; Gaz. vol. 216; p. 1271.
- Gaydosch, Michael, Clymer, Pa. Shoemaker's awl. No. 1,152,890; Sept. 7; Gaz. vol. 218; p. 188.
- Gayley, James. (See Walter, Bruce, assignor.)
- Gaylord, Ernest R. (See Boynton, Frederick C., assignor.)
- Gaylord, George S., Neenah, Wis. Cheese-box. No. 1,148,486; July 27; Gaz. vol. 216; p. 1298.
- Gaylord, Robert H., Pasadena, and G. B. Capps, assignors to Foulkes-Gaylord Company, Los Angeles, Cal. Elevator-signal. No. 1,134,448; Apr. 6; Gaz. vol. 213; p. 133.
- Gaynor, John J., assignor to Progress Machine Company, Indianapolis, Ind. Bottle-capping machine. No. 1,140,031; May 18; Gaz. vol. 214; p. 887.
- Gaynor, John J., assignor to Progress Machine Company, Indianapolis, Ind. Bottle-capping machine. No. 1,155,908; Oct. 5; Gaz. vol. 219; p. 203.
- Gaynor, John J., and P. C. Lieber, Indianapolis, Ind. Bottle-capping machine. No. 1,149,821; Aug. 10; Gaz. vol. 217; p. 581.
- Gaynor, John J., and P. C. Lieber, assignors to Progress Machine Company, Indianapolis, Ind. Bottle-capping machine. No. 1,134,676; Apr. 6; Gaz. vol. 213; p. 217.
- Gaynor, John J., and P. C. Lieber, assignors to Progress Machine Company, Indianapolis, Ind. Bottle-capping machine. No. 1,135,680; Apr. 13; Gaz. vol. 213; p. 610.
- Gaynor, John J., and P. C. Lieber, assignors to Progress Machine Company, Indianapolis, Ind. Bottle-capping machine. No. 1,136,467; Apr. 20; Gaz. vol. 213; p. 928.
- Gaynor, John J., and P. C. Lieber, assignors to Progress Machine Company, Indianapolis, Ind. Bottle-capping machine. No. 1,151,456; Aug. 24; Gaz. vol. 217; p. 1265.
- Gazzam, H. P., et al. (See Jobke, August F., assignor.)
- Gear Grinding Machine Company, The. (See Ward, Frederick A., assignor.)
- Gear Improvement Company. (See Williams, Harvey D., assignor.)
- Gearhart, John W., Fresno, Cal. Line-marker. No. 1,159,014; Nov. 2; Gaz. vol. 220; p. 209.
- Gearhart, Roy E. (See Smith and Gearhart.)
- Gearhart, Roy E., Maryville, assignor to More-Jones Brass and Metal Company, St. Louis, Mo. Trolley-retriever. No. 1,163,139; Dec. 7; Gaz. vol. 221; p. 141.
- Gearless Automatic Pump Company. (See Mintz, Mike, assignor.)
- Gearless Differential Co. (See Bailey, George D., assignor.)
- Geaton, Edward. (See Geaton, John, Jr., and E.)
- Geaton, John, Jr., and E. Chicago, Ill. Rail-fastening. No. 1,165,773; Dec. 28; Gaz. vol. 221; p. 1187.

Alphabetical list of patentees—Continued.

- Geary, Joseph F., assignor of one-half to O. H. Crandall, Chicago, and one-half to A. E. Sharpley, Melrose Park, Ill. Gage device. No. 1,158,403; Oct. 26; Gaz. vol. 219; p. 1195.
- Geb, George F., Franklin, Mass. Gearing. No. 1,134,733; Apr. 6; Gaz. vol. 213; p. 238.
- Gebauer, Charles L., administrator and trustee. (See Gebauer, Theophil II.)
- Gebauer, Theophil H., deceased; C. L. Gebauer, administrator, assignor of one-third to C. F. W. Bates, one-third to C. L. Gebauer, and one-third to C. L. Gebauer, trustee, Cleveland, Ohio. Anode for discharge-tubes. No. 1,131,606; Mar. 9; Gaz. vol. 212; p. 646.
- Gebhardt, August, Scotia, Nebr. Automatic grain-carrier. No. 1,165,499; Dec. 28; Gaz. vol. 221; p. 1090.
- Gebhardt, Edmund F., Easton, Pa. Relief-valve. No. 1,138,551; May 4; Gaz. vol. 214; p. 289.
- Gebhardt Meter Company. (See Burnham, Raymond, assignor.)
- Gebhardt, Victor, St. Louis, Mo. Fish-hook. No. 1,157,772; Oct. 26; Gaz. vol. 219; p. 972.
- Gebhardt, William, San Antonio, Tex. Spring-wheel. No. 1,143,183; June 15; Gaz. vol. 215; p. 812.
- Gebhardt, William, assignor to G. A. Duerler Mfg. Co., San Antonio, Tex. Nut-cracking machine. No. 1,133,121; Mar. 23; Gaz. vol. 212; p. 1281.
- Gebhardt, William C., San Antonio, Tex. Air-compressing apparatus. No. 1,132,331; Mar. 16; Gaz. vol. 212; p. 944.
- Gebhart, George W., Sunbury, Pa. Snow-plow. No. 1,153,776; Sept. 14; Gaz. vol. 218; p. 537.
- Gebroeders Werkhoven. (See Holtinga, Ulbe S., assignor.)
- Geckler, Robert C. (See Sadler and Geckler.)
- Geddes, Charles A., assignor of one-half to J. J. Kennedy, Jr., Philadelphia, Pa. Air purifier and washer. No. 1,139,358; May 11; Gaz. vol. 214; p. 612.
- Geddes, William L., Philadelphia, Pa., assignor to MacAndrews & Forbes Company, Camden, N. J. Licorice-root-iber board. No. 1,143,621; June 22; Gaz. vol. 215; p. 989.
- Gedze, Burton H., Anderson, Ind. Sled watering-fountain. No. 1,162,473; Nov. 30; Gaz. vol. 220; p. 1605.
- Gedze, Burton H., Anderson, Ind., and B. H. Gedze, Jr., Cleveland, Ohio. Reel. No. 1,162,472; Nov. 30; Gaz. vol. 220; p. 1605.
- Gedney, Stanley L., Maplewood, N. J. Necktie-holder. No. 1,155,228; Sept. 28; Gaz. vol. 218; p. 1099.
- Gee, Charles E., Lowell, Mass. Mechanical movement. No. 1,151,678; Aug. 31; Gaz. vol. 217; p. 1339.
- Gee, Harvey. (See Washburn, Claude F., assignor.)
- Gee, Robert D., Blackfoot, Idaho. Tooth-powder dispenser. No. 1,154,391; Sept. 21; Gaz. vol. 218; p. 785.
- Gee, Thomas J., Buenos Aires, Argentina. Wind-stacker. No. 1,152,805; Sept. 7; Gaz. vol. 218; p. 156.
- Gee, Thomas J., Buenos Aires, Argentina. Threshing-machine, maize-sheller, or like machine. No. 1,165,241; Dec. 21; Gaz. vol. 221; p. 963.
- Geel, Max J., Vienna, Austria-Hungary, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,136,521; Apr. 20; Gaz. vol. 213; p. 947.
- Geer, Dorothy Q. R., *et al.*, executors. (See Geer, Langdon.)
- Geer, Harry R., Johnstown, Pa. Metal-rolling apparatus. No. 1,157,378; Oct. 19; Gaz. vol. 219; p. 774.
- Geer, Langdon, deceased, New York, N. Y.; G. O. Redington and D. Q. R. Geer, New York, N. Y., executors. Process of and apparatus for proofing. No. 1,160,980; Nov. 16; Gaz. vol. 220; p. 991.
- Geering, Adolph, New York, N. Y. Wheel-tire. No. 1,159,925; Nov. 9; Gaz. vol. 220; p. 567.
- Gefvert, Charles J., New York, N. Y. Pipe-calking machine. No. 1,129,191; Feb. 23; Gaz. vol. 211; p. 1009.
- Gehl, Henry W., Mattoon, Ill. Oil-cloth rack. No. 1,148,895; Aug. 3; Gaz. vol. 217; p. 145.
- Gehrlich, Hermann, Brooklyn, N. Y. Portable sectional oven. No. 1,155,145; Sept. 28; Gaz. vol. 218; p. 1072.
- Gehrke, Edward A., Lincoln, Nebr. Combination filter and air-chamber. No. 1,157,934; Oct. 26; Gaz. vol. 219; p. 1029.
- Gehrein, Anton A., Erie, Pa. Cylinder-rot for paper-making machines. No. 1,154,183; Sept. 21; Gaz. vol. 218; p. 712.
- Geler, James, Troy, N. Y. Surveyor's instrument. No. 1,133,123; Mar. 23; Gaz. vol. 212; p. 1282.
- Geler, James, assignor of one-half to J. Bluhm, Troy, N. Y. Surveyor's instrument. No. 1,133,122; Mar. 23; Gaz. vol. 212; p. 1281.
- Geler, John H. (See Young and Geler.)
- Gelersbach, Theodore G., Chicago, Ill. Caster. No. 1,164,181; Dec. 14; Gaz. vol. 221; p. 550.
- Geiger, Adolph, Rochester, N. Y. Cutting-die. No. 1,129,478; Feb. 23; Gaz. vol. 211; p. 1111.
- Geiger, Charles E. (See Landolt, Christian J., assignor.)
- Geiger, Charles E., assignor of one-third to W. E. Koop and one-third to G. W. Fiske, Louisville, Ky. Drier. No. 1,139,663; May 18; Gaz. vol. 214; p. 757.
- Geiger, Charles E., assignor of one-third to W. E. Koop and one-third to G. W. Fiske, Louisville, Ky. Feeder for drying-machines. No. 1,139,664; May 18; Gaz. vol. 214; p. 758.
- Geiger, Frederick, Cleveland, Ohio. Emery-wheel guard and supporting-bracket therefor. No. 1,158,127; Oct. 26; Gaz. vol. 219; p. 1098.
- Geiger, Frederick A. (See Claesgens and Geiger.)
- Geiger, George P., assignor to The National Cash Register Company, Dayton, Ohio. Totalizer-resetting mechanism. No. 1,129,974; Mar. 2; Gaz. vol. 212; p. 47.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Means for supporting face-plates in railway-cars. No. 1,123,271; Jan. 5; Gaz. vol. 210; p. 23.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging stop member. No. 1,139,665; May 18; Gaz. vol. 214; p. 758.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Adjustable slide bearing. No. 1,149,361; Aug. 10; Gaz. vol. 217; p. 415.
- Geigy S. A., J. R. (See Mettler, Charles, assignor.)
- Gelsel, Theodor R., Springfield, Mass. Spigot. No. 1,166,202; Dec. 28; Gaz. vol. 221; p. 1340.
- Geisendorfer, John F., Weimer, Cal. Armor for automobile-tires. No. 1,127,878; Feb. 9; Gaz. vol. 211; p. 467.
- Gelsenhöner, Henry, and E. F. Collins, Schenectady, N. Y., assignors to General Electric Company. Metal-working. No. 1,164,278; Dec. 14; Gaz. vol. 221; p. 584.
- Geisler, Philip H., Oxford, Ohio. Disk-jointer for plows. No. 1,155,349; Oct. 5; Gaz. vol. 219; p. 9.
- Geiss, John, Cleveland, Ohio. Brake-band clip. No. 1,145,302; July 6; Gaz. vol. 216; p. 114.
- Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Electrically-controlled valve. No. 1,143,530; June 15; Gaz. vol. 215; p. 931.
- Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Automatic temperature-regulating system. No. 1,144,032; June 22; Gaz. vol. 215; p. 1131.
- Geissinger Regulator Company. (See Geissinger, Harry G., assignor.)
- Geist, Josef, Kraiburg-on-the-Inn, Germany. Gripper-tongs. No. 1,144,356; June 29; Gaz. vol. 215; p. 1274.
- Geitus, Jacob, Ashley, Pa. Automatic safety-brake. No. 1,147,936; July 27; Gaz. vol. 216; p. 1103.
- Gelbrich, Otto E., and G. W. Hintz, South Bend, Ind. Car-door lock. No. 1,136,117; Apr. 20; Gaz. vol. 213; p. 801.
- Gelbrich, Otto E., and G. W. Hintz, South Bend, Ind. Car-door hanger. No. 1,136,118; Apr. 20; Gaz. vol. 213; p. 802.
- Gelder, Mark, Chicago, Ill. Combined stool and racket-press. No. 1,151,935; Aug. 31; Gaz. vol. 217; p. 1478.
- Geldermann, Hugo, Berlin-Gross-Lichterfelde-Ost and F. Haas, Berlin-Treptow, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Yellow disazo dye. No. 1,166,346; Dec. 28; Gaz. vol. 221; p. 1391.
- Gell, Philip P., *et al.* (See McKinnon and Brouff, assignors.)
- Geltz, William T., Cleveland, Ohio. Workman's time-recorder. No. 1,137,962; May 4; Gaz. vol. 214; p. 84.
- Gelwix, Fredrick K. (See Carpenter, Alexander, assignor.)
- Gem Construction Co. (See Gardner, Otto, assignor.)
- Gem Hammock & Fly Net Co. (See Anderegg, Edward W., assignor.)
- Gemignani, Hugh, Pittsburgh, Pa. Steaming device. No. 1,124,884; Jan. 12; Gaz. vol. 210; p. 636.
- Gemmer-Detroit Starter Co. (See Gemmer, George A., assignor.)
- Gemmer, George A., assignor to Gemmer-Detroit Starter Co., Detroit, Mich. Pneumatic starter for internal-combustion engines. No. 1,129,661; Feb. 23; Gaz. vol. 211; p. 1172.
- Gemmill, James I., assignor of one-half to N. R. Cooper, Hudson, Ohio. Sandwich-vending machine. No. 1,125,904; Jan. 19; Gaz. vol. 210; p. 1033.
- Gemmrig, Richard, South Pasadena, Cal. Concrete-mixer. No. 1,144,650; June 29; Gaz. vol. 215; p. 1372.
- Gendreau, Auguste, assignor of one-half to E. E. McDonald, Bemidji, Minn. Disappearing car and logging-sled stake. No. 1,142,879; June 15; Gaz. vol. 215; p. 704.
- Gendron, Napoleon J., Olympia, Wash. Anvil attachment. No. 1,147,013; July 20; Gaz. vol. 216; p. 754.
- Gendron Wheel Company. (See Nauts, Frank A., assignor.)
- General Acoustic Company. (See Andrick, Wallace P., assignor.)
- General Acoustic Company. (See Turner, Kelley M., assignor.)
- General Appliance Company. (See Morse and Mallette, assignors.)
- General Bakelite Company. (See Baekeland, Leo H., assignor.)
- General Chemical Company. (See Bishop, Howard B., assignor.)
- General Chemical Company. (See De Jahn, Fredrik W., assignor.)
- General Chemical Company. (See Strickler, Emerson H., assignor.)
- General Composing Company, G. m. b. H. (See Jung, Karl, assignor.)
- General Dehydrator Company. (See Harris and Pollard, assignors.)

Alphabetical list of patentees—Continued.

- General Electric Company. (See Abbott, William G., Jr., assignor.)
 General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
 General Electric Company. (See Alquist, Karl, assignor.)
 General Electric Company. (See Arsem, William C., assignor.)
 General Electric Company. (See Atuesta, Mark A., assignor.)
 General Electric Company. (See Ball, Henry P., assignor.)
 General Electric Company. (See Barton, Frederick C., assignor.)
 General Electric Company. (See Basch, David, assignor.)
 General Electric Company. (See Beechlyn, John T., assignor.)
 General Electric Company. (See Berg, Ernst J., assignor.)
 General Electric Company. (See Berry, Edward R., assignor.)
 General Electric Company. (See Blau, Fritz, assignor.)
 General Electric Company. (See Bliss, Elmer F., assignor.)
 General Electric Company. (See Borzychowski, Leo, assignor.)
 General Electric Company. (See Boury, André, assignor.)
 General Electric Company. (See Brown, Carl A., assignor.)
 General Electric Company. (See Brown, Walter W., assignor.)
 General Electric Company. (See Burnham, George A., assignor.)
 General Electric Company. (See Callan, John G., assignor.)
 General Electric Company. (See Carbone, Tito L., assignor.)
 General Electric Company. (See Carichoff, Eugene R., assignor.)
 General Electric Company. (See Collins, Edgar F., assignor.)
 General Electric Company. (See Coolidge, William D., assignor.)
 General Electric Company. (See Crawford, William W., assignor.)
 General Electric Company. (See Creighton, Elmer E. F., assignor.)
 General Electric Company. (See Crissey, Clarence P., assignor.)
 General Electric Company. (See Dantsizen, Christian, assignor.)
 General Electric Company. (See Davis, Albert G., assignor.)
 General Electric Company. (See Dawson, Edward S., Jr., assignor.)
 General Electric Company. (See Dechamps, Heinrich, assignor.)
 General Electric Company. (See Dempster, John T., assignor.)
 General Electric Company. (See Dempster, John T. H., assignor.)
 General Electric Company. (See Dickenschied, Fritz, assignor.)
 General Electric Company. (See Dickinson, Edgar D., assignor.)
 General Electric Company. (See Dodge, Austin R., assignor.)
 General Electric Company. (See Dorgeloh, George H., assignor.)
 General Electric Company. (See Eaton, John, assignor.)
 General Electric Company. (See Edison, Thomas A., assignor.)
 General Electric Company. (See Elden, Leonard L., assignor.)
 General Electric Company. (See Ellis, Alvarado L. R., assignor.)
 General Electric Company. (See Emmet, William L. R., assignor.)
 General Electric Company. (See Erben and Delles, assignor.)
 General Electric Company. (See Evans, Evan, assignor.)
 General Electric Company. (See Evans and Ziemendorf, assignors.)
 General Electric Company. (See Evers, Kurt, assignor.)
 General Electric Company. (See Faccioli, Giuseppe, assignor.)
 General Electric Company. (See Fagan, John T., assignor.)
 General Electric Company. (See Farquhar, Edmund H., assignor.)
 General Electric Company. (See Feuerlein and Pirani, assignors.)
 General Electric Company. (See Fiego, Alexander J. R., assignor.)
 General Electric Company. (See Fleischmann and Elfes, assignors.)
 General Electric Company. (See Fleming and Halvorson, assignors.)
 General Electric Company. (See Forner, Georg, assignor.)
 General Electric Company. (See Foster, William J., assignor.)
 General Electric Company. (See Frank, Crosby F., assignor.)
 General Electric Company. (See French, Henry G., assignor.)
 General Electric Company. (See Frost, William H., assignor.)
 General Electric Company. (See Geisenhöner and Collins, assignors.)
 General Electric Company. (See Goodwin, Victor E., assignor.)
 General Electric Company. (See Gray, George F., assignor.)
 General Electric Company. (See Green, Harold V., assignor.)
 General Electric Company. (See Guay, Emile J., assignor.)
 General Electric Company. (See Halvorson, Cromwell A. B., Jr., assignor.)
 General Electric Company. (See Halvorson and Ingalls, assignors.)
 General Electric Company. (See Hartman, Noble W., assignor.)
 General Electric Company. (See Hartwig, Max, assignor.)
 General Electric Company. (See Hawkins, Laurence A., assignor.)
 General Electric Company. (See Helborn, Ernst, assignor.)
 General Electric Company. (See Helm, Max, assignor.)
 General Electric Company. (See Hennings, Gustav, assignor.)
 General Electric Company. (See Henrichsen, Christian, assignor.)
 General Electric Company. (See Hewlett, Edward M., assignor.)
 General Electric Company. (See Hill, George H., assignor.)
 General Electric Company. (See Hillner, Rudolph, assignor.)
 General Electric Company. (See Howell, Fred B., assignor.)
 General Electric Company. (See Hundt, Albert, assignor.)
 General Electric Company. (See Hunt, Louis J., assignor.)
 General Electric Company. (See Hutter, Charles, assignor.)
 General Electric Company. (See Hüttner, Fritz, assignor.)
 General Electric Company. (See Hyde, Russell M., assignor.)
 General Electric Company. (See Ingalls, Lloyd O., assignor.)
 General Electric Company. (See Jacobs, Ernest H., assignor.)
 General Electric Company. (See Jacoby, Richard, assignor.)
 General Electric Company. (See Johannesen, Svend E., assignor.)
 General Electric Company. (See Johnson, Charles J., assignor.)
 General Electric Company. (See Josephs, Lyman C., Jr., assignor.)
 General Electric Company. (See Jost, Wilhelm, assignor.)
 General Electric Company. (See Junggren, Oscar, assignor.)
 General Electric Company. (See Keldel and Sieber, assignors.)
 General Electric Company. (See Kieser, Walter, assignor.)
 General Electric Company. (See Krämer, Bernhard, assignor.)
 General Electric Company. (See Krämer and Krell, assignors.)
 General Electric Company. (See Krueger, Carl R., assignor.)
 General Electric Company. (See La France, Alfred, assignor.)
 General Electric Company. (See Langmuir, Irving, assignor.)
 General Electric Company. (See Lasche, Oskar, assignor.)
 General Electric Company. (See Latour, Marius C. A., assignor.)
 General Electric Company. (See Laycock, Harry A., assignor.)
 General Electric Company. (See Lemp, Hermann, assignor.)
 General Electric Company. (See Lewis, Benjamin, assignor.)
 General Electric Company. (See Lichtenberg, Chester, assignor.)
 General Electric Company. (See Loewenstein, Louis C., assignor.)
 General Electric Company. (See Lumley, Wilfrid, assignor.)
 General Electric Company. (See Macdonald, Alexander F., assignor.)
 General Electric Company. (See Mackay, George M. J., assignor.)
 General Electric Company. (See Macloskie, George, assignor.)
 General Electric Company. (See Marshall, Norman, assignor.)
 General Electric Company. (See McLain, Robert H., assignor.)

Alphabetical list of patentees—Continued.

- General Electric Company. (See Mensing, Karl, assignor.)
 General Electric Company. (See Merriam, Ezra B., assignor.)
 General Electric Company. (See Merritt, Matthew M., assignor.)
 General Electric Company. (See Meyer-Dellus, Heinrich, assignor.)
 General Electric Company. (See Moody, Walter S., assignor.)
 General Electric Company. (See Moreton, Alfred G., assignor.)
 General Electric Company. (See Moss, Sanford A., assignor.)
 General Electric Company. (See Murphy, Edwin J., assignor.)
 General Electric Company. (See Neeley, George S., assignor.)
 General Electric Company. (See Norrman, Karl A., assignor.)
 General Electric Company. (See Osnos, Mendel, assignor.)
 General Electric Company. (See Pape, Wilhelm, assignor.)
 General Electric Company. (See Perkins, Harry F., assignor.)
 General Electric Company. (See Perry, Edward C., Jr., assignor.)
 General Electric Company. (See Persson, Otto F., assignor.)
 General Electric Company. (See Peter, Alfred, assignor.)
 General Electric Company. (See Pfannkuch, Wilhelm, assignor.)
 General Electric Company. (See Porter, Willard E., assignor.)
 General Electric Company. (See Price, David R., assignor.)
 General Electric Company. (See Prichard, Franklin H., assignor.)
 General Electric Company. (See Rafn, Robert, assignor.)
 General Electric Company. (See Read, Robert H., assignor.)
 General Electric Company. (See Reichold, Ludwig, assignor.)
 General Electric Company. (See Remane, Carl G. H., assignor.)
 General Electric Company. (See Remané, Hermann C. G., assignor.)
 General Electric Company. (See Rice, Richard H., assignor.)
 General Electric Company. (See Robinson, Lewis T., assignor.)
 General Electric Company. (See Robinson and Craighead, assignors.)
 General Electric Company. (See Robinson and Dempster, assignors.)
 General Electric Company. (See Ruder, William E., assignor.)
 General Electric Company. (See Samuelson, Frederick, assignor.)
 General Electric Company. (See Savage, Marion A., assignor.)
 General Electric Company. (See Schafer, Edward, assignor.)
 General Electric Company. (See Scherblus, Arthur, assignor.)
 General Electric Company. (See Schrage, Hilde K., assignor.) (Reissue.)
 General Electric Company. (See Schröder, Josef, assignor.)
 General Electric Company. (See Schwarz, Elmer H., assignor.)
 General Electric Company. (See Seede, John A., assignor.)
 General Electric Company. (See Shaw, Edward T., assignor.)
 General Electric Company. (See Sheldon, Lucian A., assignor.)
 General Electric Company. (See Sheperdson, John W., assignor.)
 General Electric Company. (See Simmons, Lawrence A., assignor.)
 General Electric Company. (See Skaupy, Franz, assignor.)
 General Electric Company. (See Smith, Murray E., assignor.)
 General Electric Company. (See Sprenger, Richard, assignor.)
 General Electric Company. (See Squire, George, assignor.)
 General Electric Company. (See Stack, George E., assignor.)
 General Electric Company. (See Standerwick, Reginald G., assignor.)
 General Electric Company. (See Stanley, Arthur M., assignor.)
 General Electric Company. (See Stanley, William, assignor.)
 General Electric Company. (See Steinbecker, Karl, assignor.)
 General Electric Company. (See Steinmetz, Charles P., assignor.)
- General Electric Company. (See Stevens, George E., assignor.)
 General Electric Company. (See Stock, Henry W., assignor.)
 General Electric Company. (See Stumpf, Paul, assignor.)
 General Electric Company. (See Thomson, Elihu, assignor.)
 General Electric Company. (See Tritle, John F., assignor.)
 General Electric Company. (See Turner, Harry W., assignor.)
 General Electric Company. (See Tuttle, James N., assignor.)
 General Electric Company. (See Urtel, Rudolph, assignor.)
 General Electric Company. (See Van Aller, Tycho, assignor.)
 General Electric Company. (See Van Hoesen, William, F., assignor.)
 General Electric Company. (See Ver Planck, William E., assignor.)
 General Electric Company. (See Ver Planck and Stoeltzen, assignors.)
 General Electric Company. (See Vivell, Joseph, assignor.)
 General Electric Company. (See Vogel, Frederick M., assignor.)
 General Electric Company. (See Wagner, Paul, assignor.)
 General Electric Company. (See Weintraub, Ezechiel, assignor.)
 General Electric Company. (See Weintraub, George, assignor.)
 General Electric Company. (See Weintraub and Miller, assignors.)
 General Electric Company. (See Wentworth, Arthur M., assignor.)
 General Electric Company. (See Weston, Frederick H., assignor.)
 General Electric Company. (See White, William C., assignor.)
 General Electric Company. (See Wiard, John B., assignor.)
 General Electric Company. (See Wilkinson, James, assignor.)
 General Electric Company. (See Windeler, George E., assignor.)
 General Electric Company. (See Winne, Roy, assignor.)
 General Electric Company. (See Winter, Fred H., assignor.)
 General Electric Company. (See Wood, James J., assignor.)
 General Electric Company. (See Wright, Gilbert, assignor.)
 General Electric Company. (See Young, Arthur P., assignor.)
- General Engineering and Construction Company. (See Ashley, Charles G., assignor.)
 General Engineering and Construction Company. (See Ashley and Crippen, assignors.)
 General Fire Extinguisher Company. (See Haskell, Louis W., assignor.)
 General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)
 General Fire Extinguisher Company. (See Meloon, Jonathan C., assignor.)
 General Fireproofing Company, The. (See Schaffert, Adolf H., assignor.)
 General Fireproofing Company, The. (See White, Herbert E., assignor.)
 General Gas Light Company. (See Humphrey, Frederick J., assignor.)
 General Industries Company. (See Brinkman, Louis H., assignor.)
 General Industries Company. (See Handler, Eugene, assignor.)
 General Knit Fabric Company. (See Quinn, Loraine J., assignor.)
 General Machine Works. (See Grothey, Ivan W., assignor.)
 General Manifold and Printing Company, The. (See Lewis, Edward Z., assignor.)
 General Motors Company. (See Bower, Ferdinand A., assignor.)
 General Motors Company. (See Fried, Ernest R., assignor.)
 General Motors Company. (See Gunn, Earl G., assignor.)
 General Motors Company. (See Heinze, John O., Jr., assignor.)
 General Optical Co. (See Herold, Harry G., assignor.)
 General Optical Company. (See Bolde, Henry, assignor.)
 General Optical Company. (See Clement, Hans, assignor.)
 General Optical Company. (See Meyrowitz, Emil B., assignor.)
 General Oven Company, The. (See March, Max, assignor.)
 General Railway Signal Company. (See Day, Salisbury M., assignor.)
 General Railway Signal Company. (See Henry, William S., assignor.)
 General Railway Signal Company. (See Howe, Winthrop K., assignor.)
 General Railway Signal Company. (See Langdon, John L., assignor.)

Alphabetical list of patentees—Continued.

- General Railway Signal Company. (See Larry, Edwin C., assignor.)
- General Railway Signal Company. (See Leake, Richard C., assignor.)
- General Railway Signal Company. (See Plogsted, Walter J., assignor.)
- General Railway Signal Company. (See Ross, Oscar A., assignor.)
- General Railway Signal Company. (See Salmon and Dodgson, assignors.)
- General Railway Signal Company. (See Stevens, Oscar E., assignor.)
- General Railway Signal Company. (See Townsend, Fitzhugh, assignor.)
- General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
- General Reduction Company. (See Bergh and Neuberger, assignors.)
- General Reduction Gas and By-Products Company. (See Hornsey, John W., assignor.)
- General Rim Company. (See Ashley and Oberkirch, assignors.)
- General Transmission Company. (See Seibt, Georg, assignor.)
- General Vehicle Company. (See McComb, Henry G., assignor.)
- General Waste-Paper Recovery Company, The. (See Wine-stock, Otto C., assignor.)
- Genest, Homer A., Hartford, Conn., assignor to Arkell & Smiths, Canajoharie, N. Y. Paper bag. No. 1,158,042; Oct. 26; Gaz. vol. 219; p. 1068.
- Genin, Leon, Chicago, Ill. Insulation-cutter. No. 1,157,214; Oct. 19; Gaz. vol. 219; p. 715.
- Genomi, Frank. (See Caloy, James J., assignor.)
- Gensecke, Wilhelm. (See Josse and Gensecke.)
- Gensheimer, Philipp, Elizabeth, N. J., assignor to Goldschmidt Detinning Company, New York, N. Y. Safety-valve. No. 1,162,153; Nov. 30; Gaz. vol. 220; p. 1495.
- Gensler, Edward E. (See Miers and Gensler.)
- Genter, Jacob H., Newburgh, N. Y. Screen for moving pictures. No. 1,128,867; Feb. 16; Gaz. vol. 211; p. 858.
- Genter, Jacob H., Newburgh, N. Y. Automatic annunciator. No. 1,147,501; July 20; Gaz. vol. 216; p. 924.
- Genth, Charles H., Philadelphia, Pa. Elastic tire for wheels. No. 1,159,760; Nov. 9; Gaz. vol. 220; p. 507.
- Gentle, Waldo P., Hepler, Kans. Wagon-gear. No. 1,154,505; Sept. 21; Gaz. vol. 218; p. 823.
- Gentle, William M., Los Angeles, Cal. Carbureter. No. 1,124,724; Jan. 12; Gaz. vol. 210; p. 578.
- Gentle, William M., Greenwood, Ind. Compressing-machine. No. 1,161,305; Nov. 23; Gaz. vol. 220; p. 1153.
- Gentry, Charlie, Attalla, Ala. Collapsible chicken-coop. No. 1,133,851; Mar. 30; Gaz. vol. 212; p. 1578.
- Gentry, Overton H. (See Wagner, Clyde P., assignor.)
- Geo. L. Curtiss Co. (See Jones, Jesse L., assignor.)
- Geo. S. Johnston Company. (See Johnston, George S., assignor.)
- Geo. W. Blabon Company. (See Blabon, Edwin L., assignor.)
- Geo. W. Grimes Company, The. (See Shafer, Jesse O., assignor.)
- Geoghegan, Walter F., Huntington, assignor to Gillis & Geoghegan, New York, N. Y. Hoisting apparatus. (Re-issue.) No. 13,996; Oct. 19; Gaz. vol. 219; p. 872.
- George A. Ray Manufacturing Company. (See Ray, George A., assignor.)
- George Culver Ltd. (See Sutcliffe, John H., assignor.)
- George Cutter Company. (See McWilliams, Arthur C., assignor.)
- George E. Lee Company, The. (See Lee, George E., assignor.)
- George E. Lee Company, The. (See Lowden, Joseph E., assignor.)
- George, Edgar C., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Lubricating device. No. 1,149,125; Aug. 3; Gaz. vol. 217; p. 224.
- George, Frederick W., Rockaway Beach, N. Y. Cooling apparatus for internal-combustion engines. No. 1,145,137; July 6; Gaz. vol. 216; p. 57.
- George Frost Company. (See Glidden, George B., assignor.)
- George, Gilbert D., St. Paul, Minn. Goggles. No. 1,141,388; June 1; Gaz. vol. 215; p. 108.
- George, Grover, assignor to one-half to E. H. Gale, Williamsfield, Ill. Steering apparatus for automobile-headlights. No. 1,144,033; June 22; Gaz. vol. 215; p. 1131.
- George H. Cahoon Company. (See Wacha, John C., assignor.)
- George H. Frothingham Co. (See Goss, Harry T., assignor.)
- George H. Frothingham Company. (See Marshall, Ernest W., assignor.)
- George H. Frothingham Company. (See Prescott, Arthur T., assignor.)
- George, Harmon A., Petaluma, Cal. Brooder-heater. No. 1,132,005; Mar. 16; Gaz. vol. 212; p. 824.
- George, Harold M., et al. (See Cave, Daniel, assignor.)
- George Hattersley and Sons, Limited. (See Perks, Thomas, assignor.)
- George, Isaac A., Hamilton, Ohio. Apparatus for making raceway-walls for bearings. No. 1,139,666; May 18; Gaz. vol. 214; p. 758.
- George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Cooling-bed for metal rods or bars. No. 1,126,978; Feb. 2; Gaz. vol. 211; p. 110.
- George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Conveyor for metal rods. No. 1,139,027; May 11; Gaz. vol. 214; p. 499.
- George Lawrence Company. (See Schick, August F., assignor.)
- George P. Bent Company. (See Granzow, Louis H., assignor.)
- George P. Clark Company. (See Clark, George E., assignor.)
- George P. Clark Company. (See Clark, Irrgang, and Clark, assignors.)
- George P. Clark Company. (See Oldroyd, Walter J., assignor.)
- George P. Clark Company. (See Todd and Noble, assignors.)
- George P. Pilling and Son Co. (See Pilling and White, assignors.)
- George W. Grimes Company, The. (See Schullen, Joseph, assignor.)
- George W. Grimes Company, The. (See Shafer, Jesse O., assignor.)
- George W. Rundle & Company. (See Rundle, George W., assignor.)
- George, William H., Dexter, assignor to The Dexter Company, Fairfield, Iowa. Hand-operated driving mechanism. No. 1,153,157; Sept. 7; Gaz. vol. 218; p. 279.
- George, William H., assignor to The Dexter Company, Fairfield, Iowa. Operating mechanism for washing-machines. No. 1,154,005; Sept. 21; Gaz. vol. 218; p. 652.
- George, William H., assignor to The Dexter Company, Fairfield, Iowa. Gearing. No. 1,154,006; Sept. 21; Gaz. vol. 218; p. 652.
- George, William H., assignor to The Dexter Company, Fairfield, Iowa. Operating mechanism for washing-machines. No. 1,154,007; Sept. 21; Gaz. vol. 218; p. 652.
- George, William H., assignor to The Dexter Company, Fairfield, Iowa. Operating mechanism for washing-machines. No. 1,154,008; Sept. 21; Gaz. vol. 218; p. 653.
- George, William H., Fairfield, Iowa, assignor to The Dexter Company, Gearing. No. 1,162,764; Dec. 7; Gaz. vol. 221; p. 11.
- George Ziegler Co. (See Ziegler, Frank P., assignor.)
- Georges, William W., Washington, D. C. Metatarsal-support. No. 1,128,677; Feb. 16; Gaz. vol. 211; p. 793.
- Georgeson, Albin M., Hamberg, N. D. Signaling device. No. 1,154,756; Sept. 28; Gaz. vol. 218; p. 938.
- Georgs-Marien-Bergwerks- & Hütten-Verien A.-G. (See Viötor, Alwin, assignor.)
- Georgy, Charles H., and M. F. Hamilton, Lebanon, Pa. Spark-arrester. No. 1,135,681; Apr. 13; Gaz. vol. 213; p. 610.
- Gepack, Paul, assignor to one-eighth to J. Romanczk, one-fourth to J. Wienicki, and one-eighth to J. Modranski, McKees Rocks, Pa. Adjustable outrigger for boats. No. 1,132,924; Mar. 23; Gaz. vol. 212; p. 1208.
- Gepack, Paul, assignor to one-eighth to J. Romanczk, one-fourth to J. Wienicki, and one-eighth to J. Modranski, McKees Rocks, Pa. Life-preserver. No. 1,137,397; Apr. 27; Gaz. vol. 213; p. 1298.
- Geraghty, James V., New York, N. Y. Method and apparatus for sanding rails. No. 1,136,667; Apr. 20; Gaz. vol. 213; p. 998.
- Gerald, August P., Jersey City, N. J. Gasket-seat cleaner. No. 1,154,757; Sept. 28; Gaz. vol. 218; p. 939.
- Geraldine, Dion, Chicago, Ill. Mechanical massaging apparatus. No. 1,161,767; Nov. 23; Gaz. vol. 220; p. 1312.
- Gerard, John, assignor to The American Hardware Corporation, New Britain, Conn. Door check and closer. No. 1,148,308; July 27; Gaz. vol. 216; p. 1236.
- Geratt, Stephen, Superior, Wis. Combination implement-head. No. 1,133,124; Mar. 23; Gaz. vol. 212; p. 1282.
- Gerber, Albert D., Philadelphia, Pa. Sectional partition. No. 1,139,667; May 18; Gaz. vol. 214; p. 759.
- Gerber, Christian, Morgan, Utah. Ship-bow shield and shock-absorber. No. 1,139,809; Mar. 9; Gaz. vol. 212; p. 371.
- Gerber, Walter P., Des Moines, Iowa. Garment-button. No. 1,160,591; Nov. 16; Gaz. vol. 220; p. 852.
- Gerbrand, Abraham B. (See Sawatzky and Gerbrand.)
- Gerbach, Herman J., Wausau, Wis. Brick-machine. No. 1,157,862; Oct. 26; Gaz. vol. 219; p. 1004.
- Gerdien, Hans, Halensee, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. Method of quantitatively analyzing gas-mixtures of known constituents and apparatus therefor. No. 1,133,556; Mar. 30; Gaz. vol. 212; p. 1471.
- Gerdien, Hans, Berlin-Schmargendorf, and M. von Pirani, Berlin-Wilmersdorf, assignors to Siemens & Halske A.-G., Berlin, Germany. Electrical incandescent lamp. No. 1,139,668; May 18; Gaz. vol. 214; p. 759.
- Gerding, George W., Philadelphia, Pa. Toy. No. 1,141,389; June 1; Gaz. vol. 215; p. 109.

Alphabetical list of patentees—Continued.

- Gerding, Louis H., Baltimore, Md. Water-tower. No. 1,133,631; Mar. 30; Gaz. vol. 212; p. 1499.
- Gerding, Plumb F., Chicago, Ill. Core for electromagnets. No. 1,142,034; June 8; Gaz. vol. 215; p. 370.
- Gerdorn, Gregory, Watervliet, assignor to Ordnance Improvement Company, New York, N. Y. Composition for core of gas-check pads. No. 1,143,622; June 22; Gaz. vol. 215; p. 989.
- Gere, George H., Newark, N. J. Mechanical movement. No. 1,127,752; Feb. 9; Gaz. vol. 211; p. 421.
- Gerhard, Karl F., Hatton, Wash. Weeder and cultivator. No. 1,149,126; Aug. 3; Gaz. vol. 217; p. 224.
- Gerhardt, Ernest H. (See Evans, William B., assignor.)
- Gerhardt, Johannes. (See Friedrich, Johannes I., assignor.)
- Gericke, Samuel. (See Carrico and Gericke.)
- Geritz, Claus P. (See Morrow and Geritz.)
- Gerken, Henry H., Nashua, Iowa. Fence-post. No. 1,160,709; Nov. 16; Gaz. vol. 220; p. 897.
- Gerlach, Charles. (See Flaherty and Gerlach.)
- Gerlach, Fred. (See Baird, Edward P., assignor.)
- Gerlach, George W., Cumberland, Iowa. Block-signal control safety appliance for locomotives. No. 1,135,574; Apr. 13; Gaz. vol. 213; p. 571.
- Gerlach, George W., Cumberland, Iowa. Block-signal control safety appliance for locomotives. No. 1,135,575; Apr. 13; Gaz. vol. 213; p. 572.
- Gerlach, Wilhelm, Johannesburg, Transvaal, South Africa. Elastic and ventilated tread for boots and shoes. No. 1,144,188; June 22; Gaz. vol. 215; p. 1186.
- Gerlaugh, Arthur, Scottsville, Va. Appliance for land-rollers and the like. No. 1,144,897; June 29; Gaz. vol. 215; p. 1459.
- Gerleff, August, New York, N. Y. Spring-wheel. No. 1,160,981; Nov. 16; Gaz. vol. 220; p. 991.
- Gerlinger, Carl F., Dallas, and H. Hartwig, Salem, Oreg. Railway-switch. No. 1,151,941; Aug. 31; Gaz. vol. 217; p. 1480.
- Gerlitzki, Harry, and C. C. Emick, Lancaster, Pa. Nut-lock. No. 1,151,779; Aug. 31; Gaz. vol. 217; p. 1424.
- Germain, William. (See Feeney, William P., assignor.)
- German American Button Company. (See Hastings, Herbert, assignor.)
- German, Andrew, Sumner, Wash. Bottle. No. 1,125,834; Jan. 19; Gaz. vol. 210; p. 1008.
- German, Louis H., Louisville, Ky. Automatic burglar-alarm system. No. 1,141,327; June 1; Gaz. vol. 215; p. 86.
- German, Solomon, Savage, assignor of one-third to A. P. Gorman and one-third to J. A. Berger, Laurel, Md. Corn-husking machine. No. 1,134,449; Apr. 6; Gaz. vol. 213; p. 134.
- Germless Paper Cup Company, The. (See Rike, Berton L., assignor.)
- Germless Paper Cup Company, The. (See Rike and Klin, assignors.)
- Germond, Henry S., Jr., assignor to New York Revolving Portable Elevator Company, Jersey City, N. J. Portable elevator. No. 1,130,080; Mar. 2; Gaz. vol. 212; p. 83.
- Gernsback, Hugo, New York, N. Y. Transmitter. No. 1,124,413; Jan. 12; Gaz. vol. 210; p. 466.
- Gerrard, Robert R., Jr., St. Joseph, Mo. Base-ball game. No. 1,133,125; Mar. 23; Gaz. vol. 212; p. 1282.
- Gerrard, William, Blackburn, England, assignor to Draper Company, Hopedale, Mass. Temple-cutter for automatic weft-replenishing looms. No. 1,128,440; Feb. 16; Gaz. vol. 211; p. 711.
- Gerrish, Edward W., Lynn, Mass. Utilizing scrap pieces of material. No. 1,148,584; Aug. 3; Gaz. vol. 217; p. 36.
- Gerrish, Lloyd E., East Lebanon, Me. Bracket for vehicle-lamps. No. 1,128,127; Feb. 9; Gaz. vol. 211; p. 554.
- Gerrish, Oliver, Benicia, assignor of one-half to Kullman, Salz & Co., Inc., and one-half to Eagle Tannery, San Francisco, Cal. Roll-forming apparatus. No. 1,163,401; Dec. 7; Gaz. vol. 221; p. 233.
- Gershovitz, Barnett, and H. Axelrod, Canton, Ohio. Device for extracting spokes. No. 1,151,006; Aug. 24; Gaz. vol. 217; p. 1114.
- Gerstner, William T., Utica, N. Y. Coupling. No. 1,126,002; Jan. 26; Gaz. vol. 210; p. 1101.
- Gervais, Wainwright B., assignor to Variety Manufacturing Company, Chicago, Ill. Fireproof guideway for doors and shutters. No. 1,131,924; Mar. 16; Gaz. vol. 212; p. 795.
- Gervais, Wainwright B., assignor to Variety Manufacturing Company, Chicago, Ill. Fusible washer for fire-proof structures. No. 1,131,925; Mar. 16; Gaz. vol. 212; p. 795.
- Gesell, Lester E., Thief River Falls, Minn. Propelling mechanism for dredges, &c. No. 1,125,088; Jan. 19; Gaz. vol. 210; p. 742.
- Gesellschaft fuer Drahtlose Telegraphie m. b. H. (See Schloemlich and Leib, assignors.)
- Gesellschaft fuer Drahtlose Telegraphie m. b. H. (See Arco and Meissner, assignors.)
- Gesellschaft fuer Drahtlose Telegraphie, M. B. H. (See Reuthe, Gustav, assignor.)
- Gesellschaft fuer Elektro-Osmose m. b. H. (See Illig and Schwerin, assignors.)
- Gesellschaft fuer Elektro-Osmose m. b. H. (See Schwerin, Botho, assignor.)
- Gesellschaft fuer elektrotechnische Industrie mit beschränkter Haftung. (See Pröster, Norbert, assignor.)
- Gessler, Albert E., New York, N. Y. Manufacture of color-lakes. No. 1,157,525; Oct. 19; Gaz. vol. 219; p. 826.
- Gessler, Albert E., Clifton, N. Y. Manufacture of chromium oxid. No. 1,158,379; Oct. 26; Gaz. vol. 219; p. 1186.
- Gessler, Maximilian, Milwaukee, Wis. Paper-fastening punch. No. 1,148,672; Aug. 3; Gaz. vol. 217; p. 68.
- Gessner, David, Worcester, Mass. Means for sealing the ends of rolls of cloth. No. 1,136,224; Apr. 20; Gaz. vol. 213; p. 840.
- Gessner, David, Worcester, Mass. Cloth-winding machine. No. 1,139,513; May 18; Gaz. vol. 214; p. 704.
- Gessner, David, Worcester, Mass. Apparatus for the treatment of cloth. No. 1,154,758; Sept. 28; Gaz. vol. 218; p. 939.
- Gessner, David, Worcester, Mass. Spot-proofing mechanism. No. 1,157,773; Oct. 26; Gaz. vol. 219; p. 972.
- Gesswein, Reinhold, Chicago, Ill. Facing-tool. No. 1,124,885; Jan. 12; Gaz. vol. 210; p. 637.
- Gestetner, David, Tottenham Hale, England. Preparation and treatment of stencil-paper. No. 1,125,835; Jan. 19; Gaz. vol. 210; p. 1009.
- Gestigvar, Karl A., Bitumen, Pa. Wrench. No. 1,143,115; June 15; Gaz. vol. 215; p. 787.
- Getchell, Wendell P., Boston, Mass. School desk and seat. No. 1,133,797; Mar. 30; Gaz. vol. 212; p. 1558.
- Geterman, Charles J., assignor to J. E. McLain, Canton, Ohio. Headlight. No. 1,130,391; Mar. 2; Gaz. vol. 212; p. 191.
- Gethmann, William, Oklahoma, Okla. Level. No. 1,166,045; Dec. 28; Gaz. vol. 221; p. 1281.
- Getler, Charles F., Matteawan, N. Y. Ventilator for hats. No. 1,140,812; May 25; Gaz. vol. 214; p. 1193.
- Gettinger, Andrew J. (See Wild and Gettinger.)
- Gettle, Thomas S. (See Reed and Gettle.)
- Getts, Frank E., Chicago, Ill. Liquid-strainer. No. 1,130,725; Mar. 9; Gaz. vol. 212; p. 342.
- Getty, Harry S., and J. Eichel, Philadelphia, Pa., assignors to The Adams & Westlake Company. Hinge. No. 1,132,255; Mar. 16; Gaz. vol. 212; p. 917.
- Getz Power Washer Co. (See Paluska, Matheas, assignor.)
- Getze, Herman F. (See Hawley and Bohanan, assignors.)
- Gewecke, Hermann, and C. Baumlner, Nuremberg, assignors to Siemens-Schuckert Werke, G. m. b. H., Siemensstadt, near Berlin, Germany. Measuring-transformer. No. 1,133,466; Mar. 30; Gaz. vol. 212; p. 1438.
- Geyer, John F., assignor to Colonial Conserve Co., Philadelphia, Pa. Machine for filling receptacles. No. 1,137,128; Apr. 27; Gaz. vol. 213; p. 1200.
- Geza, Fulop, Dayton, Ohio. Folding box. No. 1,154,697; Sept. 28; Gaz. vol. 218; p. 918.
- Ghadiali, Dinshah P. F., New York, N. Y. Faultfinder for internal-combustion engines. No. 1,144,898; June 29; Gaz. vol. 215; p. 1459.
- Ghegan, John J., Newark, N. J. Telegraphic instrument. No. 1,140,151; May 18; Gaz. vol. 214; p. 929.
- Ghegan, John J., Newark, N. J. Telegraph-circuit. No. 1,152,018; Aug. 31; Gaz. vol. 217; p. 1507.
- Ghegan, John J., East Orange, N. J. Holder for crystal detectors. No. 1,162,765; Dec. 7; Gaz. vol. 221; p. 11.
- Ghent, Leroy G. (See Webber and Ghent.)
- Gherky, William D., Philadelphia, Pa. Grinding-machine. No. 1,161,653; Nov. 23; Gaz. vol. 220; p. 1273.
- Ghezzi, Paolo, Milan, Italy. Weighing apparatus. No. 1,128,128; Feb. 9; Gaz. vol. 211; p. 554.
- Ghinelli, Peter, and A. Buchignani, Swatara Station, Pa. Stopping apparatus for motor-cars. No. 1,132,332; Mar. 16; Gaz. vol. 212; p. 944.
- Ghosh, Sarath K., Seattle, Wash. Automatic train-stopping apparatus. No. 1,136,791; Apr. 20; Gaz. vol. 213; p. 1042.
- Ghosh, Sarath K., Seattle, Wash. Automatic train or car stopping apparatus. No. 1,153,616; Sept. 14; Gaz. vol. 218; p. 483.
- Ghyselinck, Polydore, and J. M. Dauwe, Toledo, Ohio. Automatic oiler. No. 1,127,614; Feb. 9; Gaz. vol. 211; p. 371.
- Glakoumis, Andrew P., Elmira, N. Y. Resilient vehicle wheel. No. 1,163,653; Dec. 14; Gaz. vol. 221; p. 365.
- Gianelloni, Vivian J., Burtville, La. Centrifugal separator. No. 1,166,347; Dec. 28; Gaz. vol. 221; p. 1397.
- Gianese, Benvenuto, Genoa, Italy. Duplex davits apparatus. No. 1,134,118; Apr. 6; Gaz. vol. 213; p. 12.
- Gianotti, Baptist, et al. (See Boldizzoni and Bosio, assignors.)
- Giarrh, Joseph H., Altoona, Pa. Heating system. No. 1,134,190; Apr. 6; Gaz. vol. 213; p. 39.
- Gibb Instrument Company. (See Clark, Theodore W., assignor.)
- Gibb, William. (See McIlroy and Gibb.)
- Gibbins, Isaac W. (See Hawkins, Green, and Gibbins.)
- Gibble, Joseph H. (See King, Lambert, and Gibble.)
- Gibbon, Thomas H., Astoria, N. Y. Egg-crate. No. 1,139,669; May 18; Gaz. vol. 214; p. 759.
- Gibbons, Charles J., New Milford, and P. C. Farwell, Bridgeport, Conn. Gear-drive for rolling-mills. No. 1,158,479; Nov. 2; Gaz. vol. 220; p. 24.

Alphabetical list of patentees—Continued.

- Gibbons, Devillo B., Hermon, N. Y. Vehicle shaft attachment. No. 1,141,791; June 1; Gaz. vol. 215; p. 247.
- Gibbons, John L., Fort Lauderdale, Fla. Traction-wheel. No. 1,125,836; Jan. 19; Gaz. vol. 210; p. 1009.
- Gibbons, Mary A., Des Moines, Iowa. Hay-baler. No. 1,132,983; Mar. 16; Gaz. vol. 212; p. 852.
- Gibbs, Benedict T., Jr., Chicago Heights, assignor to Morden Frog & Crossing Works, Chicago, Ill. Adjustable block for frogs. No. 1,151,097; Aug. 24; Gaz. vol. 217; p. 1144.
- Gibbs, Bertha B. (See Ross and Gibbs.)
- Gibbs, Bryce P., Long Beach, Cal. Pen and pencil holder. No. 1,155,174; Apr. 13; Gaz. vol. 213; p. 453.
- Gibbs, Eugene U., York, Pa. Thrust-bearing. No. 1,153,777; Sept. 14; Gaz. vol. 218; p. 538.
- Gibbs, Frank J., Tyrone, Pa. Auxiliary-tire attachment. No. 1,137,963; May 4; Gaz. vol. 214; p. 85.
- Gibbs, Frederick H. (See Ostrander and Gibbs.)
- Gibbs, Frederick H., New York, N. Y. Railway-car. No. 1,164,601; Dec. 14; Gaz. vol. 221; p. 696.
- Gibbs, Frederick H., New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Underframe. No. 1,140,672; May 25; Gaz. vol. 214; p. 1145.
- Gibbs, Fulbert F. (See Sutkay, Joseph, assignor.)
- Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Cap for water-pipes. No. 1,134,605; Apr. 6; Gaz. vol. 213; p. 190.
- Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-nozzle. No. 1,159,015; Nov. 2; Gaz. vol. 220; p. 209.
- Gibbs-Inman Company. (See Gibbs, James D., assignor.)
- Gibbs, James D., assignor to Gibbs-Inman Company, Louisville, Ky. Railway-ticket. No. 1,129,662; Feb. 23; Gaz. vol. 211; p. 1173.
- Gibbs, Jasper. (See Skinderviken, Johan, assignor.)
- Gibbs, John C., Philadelphia, Pa. Detachable hinged cover for receptacles. No. 1,158,915; Nov. 2; Gaz. vol. 220; p. 177.
- Gibbs, John W., Charleston, Ill. Clevis. No. 1,126,747; Feb. 2; Gaz. vol. 211; p. 29.
- Gibbs, Louis K., Detroit, Mich. Mailing card or folder. No. 1,164,805; Dec. 21; Gaz. vol. 221; p. 810.
- Gibbs, Robert R., Liverpool, England. Tap or cock. No. 1,153,778; Sept. 14; Gaz. vol. 218; p. 538.
- Gibbs, William F., New York, N. Y. Internal-combustion engine. No. 1,157,379; Oct. 19; Gaz. vol. 219; p. 774.
- Gibby, Benjamin F., *et al.* (See Mcardle, John T., assignor.)
- Gibeault, Alphonse, Iron Mountain, Mich. Vehicle-wheel. No. 1,162,474; Nov. 30; Gaz. vol. 220; p. 1606.
- Giberson, Mason B., assignor to Monarch Steel Castings Company, Detroit, Mich. Locomotive car-coupling. No. 1,132,574; Mar. 23; Gaz. vol. 212; p. 1080.
- Giberson, Mason B., assignor to Monarch Steel Castings Company, Detroit, Mich. Locomotive car-coupling. No. 1,132,575; Mar. 23; Gaz. vol. 212; p. 1080.
- Giberson, Mason B., assignor to Monarch Steel Castings Company, Detroit, Mich. Bolster. No. 1,132,576; Mar. 23; Gaz. vol. 212; p. 1080.
- Giberson, Mason B., assignor to Monarch Steel Castings Company, Detroit, Mich. Securing device for railway-car-coupling pivot-pins. No. 1,133,632; Mar. 30; Gaz. vol. 212; p. 1499.
- Giberson, Mason B., assignor to T. H. Simpson, Detroit, Mich. Car-coupling. No. 1,138,650; May 11; Gaz. vol. 214; p. 362.
- Giberson, Mason B., assignor to T. H. Simpson, Detroit, Mich. Car-coupling. No. 1,151,780; Aug. 31; Gaz. vol. 217; p. 1425.
- Giberson, Mason B., Detroit, Mich., and H. Roberts, Walkerville, Ontario, Canada, assignors to Monarch Steel Castings Company. Railway-truck. No. 1,133,275; Mar. 30; Gaz. vol. 212; p. 1371.
- Giberson, William T., and D. R. Anderson, Toms River, N. J. Reclining-chair. No. 1,160,399; Nov. 16; Gaz. vol. 220; p. 784.
- Giberson, Zibea. (See Brown, Samuel J., assignor.)
- Gibney, Joseph W. (See North and Gibney.)
- Gibney, Joseph W., assignor to The Sentinel Mfg. Co., New Haven, Conn. Timing mechanism. No. 1,150,514; Aug. 17; Gaz. vol. 217; p. 887.
- Gibraltar Alarm Lock Co. (See Sheinman, Morris, assignor.)
- Gibson, A. W., *et al.* (See Thompson, Jay L., assignor.)
- Gibson, Albert E., Philadelphia, Pa., assignor to The Dentists Supply Company. Artificial tooth. No. 1,139,028; May 11; Gaz. vol. 214; p. 499.
- Gibson, Alfred H., Harrogate, England. Partitioned receptacle. No. 1,144,835; June 29; Gaz. vol. 215; p. 1437.
- Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Mining-machine. No. 1,134,734; Apr. 6; Gaz. vol. 213; p. 238.
- Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Percussive tool. No. 1,138,209; May 4; Gaz. vol. 214; p. 170.
- Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Pulsator-driven percussive tool. No. 1,142,514; June 8; Gaz. vol. 215; p. 540.
- Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Pulsator for pulsatory tools. No. 1,151,936; Aug. 31; Gaz. vol. 217; p. 1478.
- Gibson, Arthur H. C., New York, N. Y. Internal-combustion engine. No. 1,146,864; July 20; Gaz. vol. 216; p. 700.
- Gibson, Arthur H. C., New York, N. Y. Propeller. No. 1,147,233; July 20; Gaz. vol. 216; p. 831.
- Gibson, Charles, Northam, England. Flagstaff for golf-links and the like. No. 1,135,372; Apr. 13; Gaz. vol. 213; p. 499.
- Gibson, Earle M., and C. W. Staples, Washburn, Me. Foot throttle or accelerator for automobiles. No. 1,131,830; Mar. 16; Gaz. vol. 212; p. 762.
- Gibson, Edward T., Brooklyn, N. Y. Brake-handle arrester. No. 1,134,261; Apr. 6; Gaz. vol. 213; p. 65.
- Gibson, Edward W., Washingtonville, Pa. Holder for stationery. No. 1,125,509; Jan. 19; Gaz. vol. 210; p. 892.
- Gibson, Frank L., Pender, Nebr. Vulcanizer. No. 1,155,909; Oct. 5; Gaz. vol. 219; p. 203.
- Gibson, George H. (See Bancel, Paul A., assignor.)
- Gibson, George H., Montclair, N. J. Hot-water heating system. No. 1,141,955; June 8; Gaz. vol. 215; p. 340.
- Gibson, George H., Montclair, N. J. Hot-water heating system. No. 1,142,785; June 8; Gaz. vol. 215; p. 632.
- Gibson, George H., Montclair, N. J. Measuring apparatus. No. 1,162,475; Nov. 30; Gaz. vol. 220; p. 1606.
- Gibson, George H., Montclair, N. J., assignor to himself, and P. A. Bancel, New York, N. Y. Condenser. No. 1,143,380; June 15; Gaz. vol. 215; p. 882.
- Gibson, George H., Montclair, N. J., assignor to himself, and P. A. Bancel, New York, N. Y. Condensing apparatus. No. 1,143,381; June 15; Gaz. vol. 215; p. 882.
- Gibson, George H., Montclair, N. J., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Boiler feed apparatus. No. 1,152,019; Aug. 31; Gaz. vol. 217; p. 1507.
- Gibson, George H., Montclair, N. J., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Flow-measuring apparatus. No. 1,152,310; Aug. 31; Gaz. vol. 217; p. 1607.
- Gibson, George H., Montclair, N. J., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Balancing and measuring apparatus. No. 1,160,275; Nov. 16; Gaz. vol. 220; p. 741.
- Gibson, George H., Montclair, N. J., and P. A. Bancel, New York, N. Y. Steam-condensing apparatus. No. 1,143,382; June 15; Gaz. vol. 215; p. 883.
- Gibson, George P., Braddock, Pa. Ore-smelting furnace. No. 1,138,651; May 11; Gaz. vol. 214; p. 362.
- Gibson, George R., Ellwood City, Pa. Tread-plate shaper. No. 1,139,266; May 11; Gaz. vol. 214; p. 580.
- Gibson, Harold, Omaha, Nebr. Account-book. No. 1,160,276; Nov. 16; Gaz. vol. 220; p. 741.
- Gibson, Hugo C., New York, N. Y. Cooler for internal-combustion engines. No. 1,147,232; July 20; Gaz. vol. 216; p. 830.
- Gibson, Joe, Houston, Tex. Mail-station device. No. 1,165,242; Dec. 21; Gaz. vol. 221; p. 963.
- Gibson, John J. (See Gifford, Cyrus P., assignor.)
- Gibson, John P., Chicago, Ill. Collar. No. 1,159,761; Nov. 9; Gaz. vol. 220; p. 507.
- Gibson, Joseph A., Sacramento, Cal. Screw-holding attachment for screw-drivers. No. 1,159,016; Nov. 2; Gaz. vol. 220; p. 209.
- Gibson, Lee S., Winnipeg, Manitoba, Canada. Car-seal. No. 1,132,006; Mar. 16; Gaz. vol. 212; p. 825.
- Gibson, Martin A. (See Sommers and Gibson.)
- Gibson, Robert A., Berkeley, and J. B. Sartolou, Emeryville, Cal. Leaf-turner. No. 1,127,227; Feb. 2; Gaz. vol. 211; p. 198.
- Gibson, Russell S., Lockhart, S. C. Belt-cleaner. No. 1,163,001; Dec. 7; Gaz. vol. 221; p. 94.
- Gibson, Tennyson I., Los Angeles, Cal. Recess-cutting tool. No. 1,135,890; Apr. 13; Gaz. vol. 213; p. 682.
- Gibson, Thomas, G. A. Farmer, and E. Read, Burton-upon-Trent, England. Signal-operating mechanism. No. 1,129,479; Feb. 23; Gaz. vol. 211; p. 1111.
- Gibson, Vincent C. H., Camden Town, England. Terminal for electric wires. No. 1,149,437; Aug. 10; Gaz. vol. 217; p. 442.
- Gibson, Walter L., Washington, D. C. Propeller. No. 1,147,083; July 20; Gaz. vol. 216; p. 777.
- Gibson, William, Sr. (See Skemp and Gibson.)
- Gibson, William, Sr., Vandergrift, and R. Skemp, Scottsdale, assignors to American Sheet & Tin Plate Company, Pittsburgh, Pa. Galvanizing. No. 1,140,898; May 25; Gaz. vol. 214; p. 1225.
- Gibson, William H., Rochester, N. Y. Child's seat. No. 1,163,628; Dec. 7; Gaz. vol. 221; p. 313.
- Gilas, Louis, Rosslyn, Va. Receptacle for mail or the like. No. 1,128,678; Feb. 16; Gaz. vol. 211; p. 793.
- Giddings, Frank D., Fort Collins, Colo. Grinding-mill. No. 1,131,229; Mar. 9; Gaz. vol. 212; p. 515.
- Giddings, Frank D., Fort Collins, Colo. Grinding-mill. No. 1,131,230; Mar. 9; Gaz. vol. 212; p. 515.
- Giddings, Frank D., Fort Collins, Colo. Grinding-mill. No. 1,131,231; Mar. 9; Gaz. vol. 212; p. 516.
- Giddings, Frank D., Fort Collins, Colo. Grinding-mill. No. 1,131,232; Mar. 9; Gaz. vol. 212; p. 516.

Alphabetical list of patentees—Continued.

- Giddings, George H., Ilion, N. Y. Breech-loading firearm. No. 1,156,222; Oct. 12; Gaz. vol. 219; p. 336.
- Giddings, Lawson H., Pasadena, Cal. Electrical oven and kiln. No. 1,130,392; Mar. 2; Gaz. vol. 212; p. 192.
- Gidley, Daniel C. (See Bissell and Gidley.)
- Giedinghagen, William, Mount Sterling, Mo. Bath-cabinet. No. 1,143,822; June 22; Gaz. vol. 215; p. 1057.
- Glem, George, Palmer Lake, Colo. Armored vehicle. No. 1,149,127; Aug. 3; Gaz. vol. 217; p. 224.
- Gier, Hermann, Cologne-Kalk, Germany. Press for the manufacture of armor-plates. No. 1,129,663; Feb. 23; Gaz. vol. 211; p. 1173.
- Gierding, Charles E., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-base. No. 1,131,831; Mar. 16; Gaz. vol. 212; p. 762.
- Gierding, Charles E., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-pole base. No. 1,154,759; Sept. 28; Gaz. vol. 218; p. 939.
- Gierhart, Sylvester S., Wanette, Okla. Wrapper-cutter. No. 1,134,043; Mar. 30; Gaz. vol. 212; p. 1640.
- Giesberg, John G., Houston, Tex. Polishing-machine. No. 1,134,191; Apr. 6; Gaz. vol. 213; p. 39.
- Giese, Charles H., Newark, N. J. Water-heating appliance for gas-stoves. No. 1,129,566; Feb. 23; Gaz. vol. 211; p. 141.
- Giese, James A., assignor to The Adams & Westlake Company, Chicago, Ill. Sash-lock. No. 1,125,511; Jan. 19; Gaz. vol. 210; p. 893.
- Giese, Robert W., and P. F. Reilly, Philadelphia, Pa. Signaling device. No. 1,130,393; Mar. 2; Gaz. vol. 212; p. 192.
- Giese, Willy, Round Top, Tex. Measuring device. No. 1,143,531; June 15; Gaz. vol. 215; p. 932.
- Giesecke, Carl, Brunswick, Germany. Agglomerating fine-dust or other finely-divided material. No. 1,162,600; Nov. 30; Gaz. vol. 220; p. 1646.
- Giesecke, Max, New York, N. Y., assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Surveying instrument. No. 1,136,951; Apr. 27; Gaz. vol. 213; p. 1135.
- Giesenhaus, Fred, Muscatine, Iowa. Salt-shaker. No. 1,157,624; Oct. 19; Gaz. vol. 219; p. 856.
- Gieve, James W., London, assignor to Gieve, Matthews & Seagrove Limited, Portsmouth, England. Life-saving waistcoat. No. 1,143,899; June 22; Gaz. vol. 215; p. 1083.
- Gieve, Matthews & Seagrove Limited. (See Gieve, James W., assignor.)
- Gifford, Albert J., Worcester, Mass. Paper-clip. No. 1,152,406; Sept. 7; Gaz. vol. 218; p. 9.
- Gifford, Arthur G. and B. L. Barker, N. Y. Automatic releasing device for pressure-pumps. No. 1,128,596; Feb. 16; Gaz. vol. 211; p. 765.
- Gifford, Bert L. (See Gifford, Arthur G. and B. L.)
- Gifford, Bert L., Barker, N. Y. Sprinkling or spraying device. No. 1,156,474; Oct. 12; Gaz. vol. 219; p. 425.
- Gifford, Charles A. (See Springstead, Abram B., assignor.)
- Gifford, Charles P., assignor to Gifford-Pierce Company, Chicago, Ill. Window-frame guard-strip. No. 1,145,303; July 6; Gaz. vol. 216; p. 114.
- Gifford, Cyrus P., assignor to J. J. Gibson, Erie, Pa. Vending-machine. No. 1,163,080; Dec. 7; Gaz. vol. 221; p. 120.
- Gifford, Harry E., assignor to Champion Metal Weather Strip and Parting Bend Company, Boston, Mass. Adjustable window-shade fixture. No. 1,144,119; June 22; Gaz. vol. 215; p. 1162.
- Gifford, Jay, Glens Falls, N. Y., assignor to Glens Falls Lumber Co., Inc. Shovel. No. 1,159,316; Nov. 2; Gaz. vol. 220; p. 316.
- Gifford-Pierce Company. (See Gifford, Charles P., assignor.)
- Gifford-Wood Company. (See Wood, Ellis G., assignor.)
- Giggey, Walter W., Netherland, Colo. Tunneling-machine. No. 1,140,673; May 25; Gaz. vol. 214; p. 1146.
- Giguère, Limoge, Montreal, Quebec, Canada. Concrete-mold. No. 1,125,837; Jan. 19; Gaz. vol. 210; p. 1009.
- Giguère, Limoge, Montreal, Quebec, Canada. Concrete-mold. No. 1,136,225; Apr. 20; Gaz. vol. 213; p. 840.
- Gilbaugh, John H., Portland, Oreg. Chin-support for dead persons. No. 1,139,670; May 18; Gaz. vol. 214; p. 760.
- Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
- Gilbert & Barker Manufacturing Company. (See Fairbanks, Charles E., assignor.)
- Gilbert, Bond E., Morrill, Nebr. Gate for irrigating-dams. No. 1,134,327; Apr. 6; Gaz. vol. 213; p. 90.
- Gilbert, Frank M., Oregon, Ill. Fumigator. No. 1,151,353; Aug. 24; Gaz. vol. 217; p. 1231.
- Gilbert, George H., Germantown, Pa. Car-coupling. No. 1,126,979; Feb. 2; Gaz. vol. 211; p. 110.
- Gilbert, George W. (See Woods, Gilbert, and Little.)
- Gilbert, Gilbert H., New York, N. Y. Apparatus for pneumatically delivering material. No. 1,146,775; July 13; Gaz. vol. 216; p. 650.
- Gilbert, John A., Cocoa, Fla. Spark-plug. No. 1,138,372; May 4; Gaz. vol. 214; p. 230.
- Gilbert, John E. (See Friese and Gilbert.)
- Gilbert, John P., Rochester, N. Y. Screen for the reception of images. No. 1,155,561; Oct. 5; Gaz. vol. 219; p. 82.
- Gilbert, Joseph M. (See Friedenwald, Jacob H., assignor.)
- Gilbert, Justin, Victoria, British Columbia, Canada. Fountain-pen. No. 1,161,123; Nov. 23; Gaz. vol. 220; p. 1087.
- Gilbert, Lovie R. (See Fetner, William B., assignor.)
- Gilbert, Ora B., Pleasant Hill, Ohio. Window-shade holder. No. 1,158,677; Nov. 2; Gaz. vol. 220; p. 94.
- Gilbert, William E., Wakefield, Mich. Indicating-lamp. No. 1,133,126; Mar. 23; Gaz. vol. 212; p. 1283.
- Gilbert, William F., Derby, Conn. Temporary binder. No. 1,135,373; Apr. 13; Gaz. vol. 213; p. 499.
- Gilbert, William O., Arrowsmith, Ill. Adjustable bracket. No. 1,142,694; June 8; Gaz. vol. 215; p. 600.
- Gilbertson, Ole O., Hayfield, Minn. Egg-shipping case. No. 1,128,868; Feb. 16; Gaz. vol. 211; p. 859.
- Gilbreath, Victor G., and S. T. Williamson, Seattle, Wash. Filing-cabinet. No. 1,140,589; May 25; Gaz. vol. 214; p. 1117.
- Gilchrist Company, The. (See Gilchrist, Raymond B., assignor.)
- Gilchrist Company, The. (See Nielsen, Rasmus, assignor.)
- Gilchrist, Lionel, and C. Van Winkle, Anderson, Ind. Automatic-releasing timber-carrying hook. No. 1,129,664; Feb. 23; Gaz. vol. 211; p. 1174.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Ice-cream ladle. No. 1,132,657; Mar. 23; Gaz. vol. 212; p. 1111.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Glass-holder. No. 1,147,856; July 27; Gaz. vol. 216; p. 1075.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Article-holder. No. 1,155,562; Oct. 5; Gaz. vol. 219; p. 82.
- Gilchrist, William A. (See Crouch, Thomas C., assignor.)
- Gilda, John R., assignor to C. Sieber, St. Louis, Mo. Loose-leaf binder. No. 1,128,441; Feb. 16; Gaz. vol. 211; p. 711.
- Giles, A. S. (See Edwards, Eugene P., assignor.)
- Giles, Donald M. (See Giles, John H. and D. M.)
- Giles, Georges, Fribourg, Switzerland. Electrolytic lighting-arrester. No. 1,150,590; Aug. 17; Gaz. vol. 217; p. 914.
- Giles, Harvey. (See Kops and Giles.)
- Giles, Henry, Portland, Oreg. Window-screen fastener. No. 1,160,505; Nov. 16; Gaz. vol. 220; p. 822.
- Giles, John H. and D. M. Taunton, Mass. Dyeing-machine. No. 1,146,324; July 13; Gaz. vol. 216; p. 492.
- Giles, Julian A., Derby, Conn. Wrench. No. 1,153,303; Sept. 14; Gaz. vol. 218; p. 368.
- Giles, Lloyd, assignor to Pacific Heater Manufacturing Co., Los Angeles, Cal. Air-heater. No. 1,144,469; June 29; Gaz. vol. 215; p. 1311.
- Gillilan, James O., Napoleon, N. D. Vehicle-spring. No. 1,153,058; Sept. 7; Gaz. vol. 218; p. 246.
- Gillilan, Paul V., West Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,151,872; Aug. 31; Gaz. vol. 217; p. 1458.
- Gilheeny, John, Newton Robinson, Ontario, Canada. Tie-support. No. 1,123,517; Jan. 5; Gaz. vol. 210; p. 109.
- Gilkerson, George T. (See Pederson and Gilkerson.)
- Gilkerson, Solomon D., Montreal, Quebec, Canada. Garment-holding form. No. 1,132,841; Mar. 23; Gaz. vol. 212; p. 1180.
- Gilkey, Clarence A., Medical Lake, Wash. Water-heater. No. 1,161,855; Nov. 30; Gaz. vol. 220; p. 1390.
- Gill, Charles H., Chicago, Ill. Toy receptacle. No. 1,128,241; Feb. 9; Gaz. vol. 211; p. 592.
- Gill-Cook Valve Co. (See Gill, William A., assignor.)
- Gill, Edwin R., Yonkers, N. Y. Packing means for preserving perishable articles. No. 1,139,359; May 11; Gaz. vol. 214; p. 612.
- Gill, Edwin R., Yonkers, N. Y. Preserving eggs. No. 1,161,124; Nov. 23; Gaz. vol. 220; p. 1087.
- Gill, Edwin R., Yonkers, N. Y. Pulp-collecting form. No. 1,161,125; Nov. 23; Gaz. vol. 220; p. 1087.
- Gill, Edwin R., Yonkers, N. Y., assignor, by mesne assignments, to Hall Switch & Signal Company. Selective signaling apparatus. No. 1,137,474; Apr. 27; Gaz. vol. 213; p. 1325.
- Gill, Edwin R., Yonkers, N. Y., assignor, by mesne assignments, to Hall Switch & Signal Company. Selective signaling apparatus. No. 1,137,475; Apr. 27; Gaz. vol. 213; p. 1325.
- Gill, Edwin R., Yonkers, N. Y., assignor, by mesne assignments, to Hall Switch & Signal Company. Automatic signal-operator. No. 1,150,110; Aug. 17; Gaz. vol. 217; p. 745.
- Gill, Edwin R., Yonkers, N. Y., assignor, by mesne assignments, to Hall Switch & Signal Company. Sender-board apparatus. No. 1,160,876; Nov. 16; Gaz. vol. 220; p. 954.
- Gill, Edwin R., Yonkers, N. Y., assignor, by mesne assignments, to Hall Switch & Signal Company. Selective signaling system. (Reissue.) No. 14,010; Nov. 16; Gaz. vol. 220; p. 1004.

Alphabetical list of patentees—Continued.

- Gill, Edwin R., Yonkers, N. Y., assignor to T. McCampbell. Coherer. No. 1,150,111; Aug. 17; Gaz. vol. 217; p. 746.
- Gill, Edwin R., Yonkers, N. Y., assignor to T. McCampbell. Method and apparatus for utilizing Hertzian waves. No. 1,155,653; Oct. 5; Gaz. vol. 219; p. 114.
- Gill, George W., Three Rivers, Mich. Oiler for the slides of wind musical instruments. No. 1,152,407; Sept. 7; Gaz. vol. 218; p. 9.
- Gill, James L., Bridgeton, N. J. Window-screen. No. 1,133,127; Mar. 23; Gaz. vol. 212; p. 1283.
- Gill, James M. (See Wesson, Joseph H., assignor.)
- Gill, Robert A. and W. P., Port Clinton, and C. A. Burke, Gypsum, Ohio. Machine for sizing fruit. No. 1,159,208; Nov. 2; Gaz. vol. 220; p. 278.
- Gill, Robert J., and J. Schoenfeld, San Francisco, Cal. Target plotting-board. No. 1,165,330; Dec. 21; Gaz. vol. 221; p. 991.
- Gill, Roy R., *et al.*, executors. (See Mason, Frederic H.)
- Gill, William A., assignor to Gill-Cook Valve Co., Portland, Oreg. Rotary valve for internal-combustion engines. No. 1,130,896; Mar. 9; Gaz. vol. 212; p. 402.
- Gill, William A., assignor to Gill-Cook Valve Co., Portland, Oreg. Segmental rotary valve. No. 1,164,495; Dec. 14; Gaz. vol. 221; p. 661.
- Gill, William P. (See Gill and Burke.)
- Gill, William T., *et al.* (See Bergstrom, Edward F., assignor.)
- Gillman, Manly M., Flushing, N. Y. Adjustable heat and fuel economizer. No. 1,138,745; May 11; Gaz. vol. 214; p. 397.
- Gillman, Manly M., Flushing, N. Y. Picture-projecting device. No. 1,164,937; Dec. 21; Gaz. vol. 221; p. 856.
- Gillard, A. H. (See Atwood, Leonard, assignor.)
- Gille, Hugo, Hückingen-on-the-Rhine, Germany. Valve for hydraulic machines. No. 1,157,215; Oct. 19; Gaz. vol. 219; p. 716.
- Gillelan, Joshua T. (See Gross, Angus R., assignor.)
- Gillespie, Alexander W., Chicago, Ill., assignor to Calumet Steel Company, Chicago, Ill. Method of and apparatus for forming metal tubes. No. 1,124,221; Jan. 5; Gaz. vol. 210; p. 350.
- Gillespie, Alexander W., assignor to S. S. Porter, Chicago Heights, J. H. Porter, and A. S. Hook, Chicago, Ill. Bar-twisting machine. No. 1,123,518; Jan. 5; Gaz. vol. 210; p. 109.
- Gillespie, C. Edward, *et al.* (See Mellon, Charles E., assignor.)
- Gillespie, Charles W., El Paso, Tex. Reeling device. No. 1,141,245; June 1; Gaz. vol. 215; p. 55.
- Gillespie, George W., and P. L. Rookledge, Cambria, Cal.; said Rookledge assignor to said Gillespie. Yielding support. No. 1,145,304; July 6; Gaz. vol. 216; p. 114.
- Gillespie, John J. (See Bazzoni and Gillespie.)
- Gillespie, John J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,150,591; Aug. 17; Gaz. vol. 217; p. 914.
- Gillespie, John J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting shoes. No. 1,150,820; Aug. 17; Gaz. vol. 217; p. 992.
- Gillespie, Samuel G., Charleston, W. Va. Fence-post. No. 1,165,589; Dec. 28; Gaz. vol. 221; p. 1121.
- Gillett, Charles W. (See De Martino, Joseph, assignor.)
- Gillett, Horace W. (See Lohr and Gillett.)
- Gillette, George F., Detroit, Mich. Internal-combustion-engine valve. No. 1,132,084; Mar. 16; Gaz. vol. 212; p. 852.
- Gillette, George H., New York, N. Y., assignor to Gillette Safety Razor Company. Safety-razor. No. 1,141,183; June 1; Gaz. vol. 215; p. 33.
- Gillette, Herbert B., Grand Rapids, Mich. Pneumatic tire. No. 1,141,537; June 1; Gaz. vol. 215; p. 161.
- Gillette, Herbert B., Grand Rapids, Mich. Pneumatic tire. No. 1,141,538; June 1; Gaz. vol. 215; p. 161.
- Gillette, John C., Lakewood, assignor to The Glidden Varnish Company, Cleveland, Ohio. Varnish-drying oven. No. 1,139,858; May 18; Gaz. vol. 214; p. 825.
- Gillette, King C., Brookline, Mass. Blade-box. No. 1,132,925; Mar. 23; Gaz. vol. 212; p. 1209.
- Gillette, King C., Brookline, Mass. Safety-razor. No. 1,158,480; Nov. 2; Gaz. vol. 220; p. 24.
- Gillette, King C., Brookline, Mass. Safety-razor. No. 1,158,481; Nov. 2; Gaz. vol. 220; p. 24.
- Gillette Safety Razor Company. (See Gillette, George H., assignor.)
- Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
- Gillette Safety Razor Company, The. (See Proctor, Alfred W., assignor.)
- Gillette Safety Razor Company. (See Thuillier, Georges, assignor.)
- Gillette-Vibber Co., The. (See Vibber, Wheeler H., assignor.)
- Gilliam, John A., Lower Brule, S. D. Potato-digger. No. 1,124,414; Jan. 12; Gaz. vol. 210; p. 466.
- Gilliam Manufacturing Company, The. (See Steiner, Barrette T., assignor.)
- Gilliam Manufacturing Company, The. (See White, Harry B., assignor.)
- Gillies, Alexander, Heidelberg, and H. Bartram, Melbourne, Victoria, Australia. Pneumatically-operated teat-cup. No. 1,124,886; Jan. 12; Gaz. vol. 210; p. 637.
- Gilligan, Bernard C., assignor of one-third to W. B. Duck and two-thirds to M. J. Gilligan, Toledo, Ohio. Composition of matter for molds and forms for glassware. No. 1,165,003; Dec. 21; Gaz. vol. 221; p. 879.
- Gilligan, Frank B., New York, N. Y. Pulp agitator and reiner. No. 1,127,615; Feb. 9; Gaz. vol. 211; p. 371.
- Gilligan, Margaret J., *et al.* (See Gilligan, Bernard C., assignor.)
- Gilliland, William L., Potosi, Wis. Self-sorting hog-house door. No. 1,154,760; Sept. 28; Gaz. vol. 218; p. 940.
- Gilliland, James H., Greensboro, N. C. Spring-axle. No. 1,128,770; Feb. 16; Gaz. vol. 211; p. 824.
- Gilliland, James H., Greensboro, N. C. Spring-axle. No. 1,138,467; May 4; Gaz. vol. 214; p. 263.
- Gilliland, Lee O. (See Sharpneck and Gilliland.)
- Gillin, Samuel W., Pueblo, Colo. Humidifier. No. 1,163,402; Dec. 7; Gaz. vol. 221; p. 234.
- Gilling, Preston E., East Orange, N. J. Friction driving device. No. 1,126,443; Jan. 26; Gaz. vol. 210; p. 1260.
- Gilling, Preston E., East Orange, N. J. Signaling device. No. 1,153,215; Sept. 14; Gaz. vol. 218; p. 337.
- Gillingham, William, Littleton, W. Va. Folding crate. No. 1,143,532; June 15; Gaz. vol. 215; p. 932.
- Gillis & Geoghegan. (See Falkenau, Arthur, assignor.)
- Gillis & Geoghegan. (See Geoghegan, Walter F., assignor.) (Reissue.)
- Gillis & Geoghegan. (See Kearney, John A., assignor.)
- Gillis & Geoghegan. (See Pavelka, Edward, assignor.)
- Gillis & Geoghegan. (See Rutan, William, assignor.)
- Gillis, Raymond T., East McKeesport, Pa. Sad-iron. No. 1,128,242; Feb. 9; Gaz. vol. 211; p. 592.
- Gilmor, Horatio G., Washington, D. C. Compressor for gases. No. 1,130,394; Mar. 2; Gaz. vol. 212; p. 192.
- Gilmor, Horatio G., Portsmouth, Va. Means of forming joints in rails. No. 1,133,557; Mar. 30; Gaz. vol. 212; p. 1472.
- Gilmor, John E., Philadelphia, Pa. Lever-lock. No. 1,148,309; July 27; Gaz. vol. 216; p. 1236.
- Gilooly, John, Norwood, Mass. Horseshoe. No. 1,142,320; June 8; Gaz. vol. 215; p. 470.
- Gillson, Charles B., *et al.* (See Hamilton, William L., assignor.)
- Gillson, Louis K., *et al.* (See Hamilton, William L., assignor.)
- Gilman, Benoist P., Yoakum, Tex. Oil-burning equipment for locomotives. No. 1,145,985; July 13; Gaz. vol. 216; p. 373.
- Gilman, George B., Gardiner, Me. Engine-detector. No. 1,125,510; Jan. 19; Gaz. vol. 210; p. 893.
- Gilman, George H., St. Paul, Minn. Railway-car truck. No. 1,128,771; Feb. 16; Gaz. vol. 211; p. 824.
- Gilman, George H., St. Paul, Minn. Apparatus for manipulating brakes on railway-cars. No. 1,159,581; Nov. 9; Gaz. vol. 220; p. 441.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Drill-bit-retaining device. No. 1,126,628; Jan. 26; Gaz. vol. 210; p. 1330.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Pressure-actuated tool. No. 1,143,533; June 15; Gaz. vol. 215; p. 933.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Pressure-actuated tool. No. 1,143,534; June 15; Gaz. vol. 215; p. 933.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Pneumatic tool. No. 1,148,310; July 27; Gaz. vol. 216; p. 1237.
- Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Pneumatic drill. No. 1,150,357; Aug. 17; Gaz. vol. 217; p. 833.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Pressure-feed tool. No. 1,150,592; Aug. 17; Gaz. vol. 217; p. 915.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Feed-controlling device. No. 1,151,261; Aug. 24; Gaz. vol. 217; p. 1202.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Pneumatic tool. No. 1,152,624; Sept. 7; Gaz. vol. 218; p. 90.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stoneworking-machine. No. 1,164,083; Dec. 14; Gaz. vol. 221; p. 518.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Rock-drill. No. 1,164,496; Dec. 14; Gaz. vol. 221; p. 661.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Pressure-actuated valve. No. 1,164,497; Dec. 14; Gaz. vol. 221; p. 662.
- Gilman, George H., assignor of one-half to H. M. Robertson, St. Paul, Minn. Detachable equalizer wearing-plate for journal-boxes. No. 1,146,493; July 13; Gaz. vol. 216; p. 554.
- Gilman, George H., and H. M. Robertson, St. Paul, Minn. Car-roof. No. 1,155,563; Oct. 5; Gaz. vol. 219; p. 83.

Alphabetical list of patentees—Continued.

- Gilman, John H., assignor to King & Hamilton, Ottawa, Ill. Gearing. No. 1,125,838; Jan. 19; Gaz. vol. 210; p. 1010.
- Gilman, Ralph S. (See Wheeler, Wellington B., assignor.)
- Gilman & Son. (See Buck, Frank S., assignor.)
- Gilmer, John E., Philadelphia, Pa. Temporary binder. No. 1,134,735; Apr. 6; Gaz. vol. 213; p. 238.
- Gilmer, John T., Fulton, Ala. Dowel-pin. No. 1,150,358; Aug. 17; Gaz. vol. 217; p. 834.
- Gilmore, Charles A., McComb, Miss. Throttle-stem. No. 1,128,129; Feb. 9; Gaz. vol. 211; p. 555.
- Gilmore, Charles B., Chicago, Ill. Dust-mop. No. 1,155,564; Oct. 5; Gaz. vol. 219; p. 83.
- Gilmore, Edward O., New York, N. Y., assignor to Crouch & Fitzgerald. Hanger-rack. No. 1,161,934; Nov. 30; Gaz. vol. 220; p. 1419.
- Gilmore, Ira F., Bloomington, Ill. Piano-action. No. 1,125,304; Jan. 19; Gaz. vol. 210; p. 820.
- Gilmore, Millard, assignor to Variety Manufacturing Company, Chicago, Ill. Fire-door. No. 1,147,857; July 27; Gaz. vol. 216; p. 1075.
- Gilmore, William E., Holmesville, Ohio. Draining device for embalming purposes. No. 1,143,046; June 15; Gaz. vol. 215; p. 763.
- Gilmore, William R., Richmond, Cal. Spring-wheel. No. 1,156,771; Oct. 12; Gaz. vol. 219; p. 529.
- Gilmour, Harry. (See Pinto, Jacob C., assignor.)
- Gilmour, Marriam L., Davenport, Iowa. Pipe and iron cutter. No. 1,130,395; Mar. 2; Gaz. vol. 212; p. 193.
- Gillooley, George, Lockport, N. Y. Screw-head guard. No. 1,160,877; Nov. 16; Gaz. vol. 220; p. 954.
- Giloy, Franz. (See Kränzlein, Hagenbach, and Giloy.)
- Gilpin, Bernard, Coudsund, England. Tobacco-pipe. No. 1,162,476; Nov. 30; Gaz. vol. 220; p. 1606.
- Gilpin, Garth G. (See Young and Gilpin.)
- Gilpin, William R. (See Druitt and Gilpin.)
- Gilroy, Frank J., Buffalo, N. Y. Freight-car closure. No. 1,141,328; June 1; Gaz. vol. 215; p. 86.
- Gilroy, John J., Pittston, Pa. Axle-box. No. 1,136,952; Apr. 27; Gaz. vol. 213; p. 1136.
- Gilson, Albert F. F. (See Ireland and Gilson.)
- Gilson, Clair A., Niles, Mich. Slide-rule. No. 1,157,526; Oct. 19; Gaz. vol. 219; p. 826.
- Gilson, Henry R. (See Abbott and Gilson.)
- Gilson, Henry R., Beaver, Pa., assignor to National Metal Molding Company. Mechanism for making armored cable. No. 1,127,616; Feb. 9; Gaz. vol. 211; p. 372.
- Gilson, Henry R., Beaver, Pa., assignor to National Metal Molding Company. Cable-armor. No. 1,134,119; Apr. 6; Gaz. vol. 213; p. 12.
- Gilson, Henry R., Baden, assignor to National Metal Molding Company. Connector for wood to metal molding. No. 1,134,120; Apr. 6; Gaz. vol. 213; p. 13.
- Gilson, Henry R., Baden, and J. M. G. Fullman, Sewickley, assignors to National Metal Molding Company, Pittsburgh, Pa. Attachment of electrical fixtures to outlet-boxes. No. 1,155,350; Oct. 5; Gaz. vol. 219; p. 9.
- Gilson, John, Sr., assignor to Gilson Manufacturing Company, Port Washington, Wis. Pintle attachment for machine elements. No. 1,162,477; Nov. 30; Gaz. vol. 220; p. 1606.
- Gilson, John E., assignor to Gilson Manufacturing Company, Port Washington, Wis. Igniter-actuating mechanism. No. 1,142,086; June 8; Gaz. vol. 215; p. 389.
- Gilson, Louis A., Ludlow, Ky. Harness. No. 1,146,562; July 13; Gaz. vol. 216; p. 577.
- Gilson Manufacturing Company. (See Gilson, John, Sr., assignor.)
- Gilson Manufacturing Company. (See Gilson, John E., assignor.)
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric motor. No. 1,147,168; July 20; Gaz. vol. 216; p. 807.
- Gilstrap, Owen G. (See Van Groos and Gilstrap.)
- Giltner, Francis M., Winfield, Kans. Animal-feeder. No. 1,138,102; May 4; Gaz. vol. 214; p. 134.
- Gimpel, August M., and P. Yeager, St. Louis, Mo. Hub-liner. No. 1,146,790; July 20; Gaz. vol. 216; p. 675.
- Gindre, Eugene, assignor to Société Anonyme Le Carbone, Levallois-Perret, near Paris, France. Brush or collector for electrical machines. No. 1,138,746; May 11; Gaz. vol. 214; p. 398.
- Gingras, A. Pierre. (See Gingras, Louis, assignor.)
- Gingras, Louis, assignor of one-half to A. P. Gingras, Lowell, Mass. Pocket tool-holding device. No. 1,163,526; Dec. 7; Gaz. vol. 221; p. 277.
- Gingras, Octave, *et al.* (See Painchaud, Pierre A., assignor.)
- Gingrich, Harry C., Royersford, Pa. Union sult. No. 1,161,471; Nov. 23; Gaz. vol. 220; p. 1212.
- Ginn & Company. (See Robinson, Edward K., assignor.)
- Ginnel, Henry, New York, N. Y. Bracelet. No. 1,150,859; Aug. 24; Gaz. vol. 217; p. 1066.
- Ginnel, Henry, New York, N. Y. Bracelet. No. 1,160,277; Nov. 16; Gaz. vol. 220; p. 742.
- Ginocchio, Costa & Co. (See Suzzi, Taddeo C., assignor.)
- Ginskey, Edwin L. (See Falk and Ginskey.)
- Gins, Armand, Downey, assignor of one-half to C. Barrington, Jr., Los Angeles, Cal. Railway-transfer. No. 1,137,398; Apr. 27; Gaz. vol. 213; p. 1299.
- Ginter, John M., Wooster, Ohio. Vulcanizer. No. 1,153,059; Sept. 7; Gaz. vol. 218; p. 246.
- Ginther, Francis M. (See Kuhl, Philip C., assignor.)
- Giolitti, Federico, Turin, assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Treatment of steel. No. 1,141,034; June 22; Gaz. vol. 215; p. 1132.
- Gipe, Harrison S., Palmyra, and G. W. Henry, Derry Church, Pa. Box-covering machine. No. 1,127,879; Feb. 9; Gaz. vol. 211; p. 468.
- Girard, Alfred O., Milwaukee, Wis. Refrigerating and ice-manufacturing means. No. 1,132,176; Mar. 16; Gaz. vol. 212; p. 886.
- Girard, Louis, Manville, R. I. Loom. No. 1,152,311; Aug. 31; Gaz. vol. 217; p. 1608.
- Girard, Louis B., assignor to The Girard Manufacturing Company, Los Angeles, Cal. Staple. No. 1,163,140; Dec. 7; Gaz. vol. 221; p. 141.
- Girard Manufacturing Company, The. (See Girard, Louis B., assignor.)
- Girard, Paul, and J. Sonnerly, Lyon, France. Production of artificial fibers. No. 1,164,084; Dec. 14; Gaz. vol. 221; p. 519.
- Girardeau, Emile, assignor of one-half to J. Bethenod, Paris, France. Radiotelegraphic plant. No. 1,151,098; Aug. 24; Gaz. vol. 217; p. 1145.
- Girardeau, Emile, and J. Bethenod, Paris, France. System for direct energization of radiotelegraphic antennae. No. 1,145,239; July 6; Gaz. vol. 216; p. 93.
- Girl, Christian. (See Schultis, Charles F., assignor.)
- Girling, James G., assignor to The Arrow Electric Company, Hartford, Conn. Pull-socket. No. 1,158,200; Oct. 26; Gaz. vol. 219; p. 1123.
- Girolami, Charles, Chicago, Ill. Flying-machine. No. 1,124,415; Jan. 12; Gaz. vol. 210; p. 466.
- Girolami, Charles, Chicago, Ill. Airship. No. 1,132,085; Mar. 16; Gaz. vol. 212; p. 853.
- Giroud, David, Leominster, Mass. Mixture for making bread and pastry and making the same. No. 1,152,087; Aug. 31; Gaz. vol. 217; p. 1532.
- Giroud, George G., Nashua, N. H. Aeroplane. No. 1,163,231; Dec. 7; Gaz. vol. 221; p. 174.
- Giroud, Felipe, deceased; E. E. Chapman, executrix, New York, N. Y., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,129,975; Mar. 2; Gaz. vol. 212; p. 47.
- Giroud, Felipe, deceased; New York, N. Y.; E. E. Chapman, executrix, assignor to Package Machinery Company. Wrapping or packaging machine. No. 1,133,633; Mar. 30; Gaz. vol. 212; p. 1499.
- Girvin, Charles W., San Francisco, Cal., assignor to Girvin Electrical Development Company, Limited, Honolulu, Hawaii. Direct-current machine. No. 1,139,203; May 11; Gaz. vol. 214; p. 560.
- Girvin Electrical Development Company. (See Girvin, Charles W., assignor.)
- Giset, Olaf E., assignor to A. Wittnauer Co., New York, N. Y. Striking attachment for timepieces. No. 1,160,065; Nov. 9; Gaz. vol. 220; p. 613.
- Gish, John L., South Bend, Ind. Sanitary water-closet. No. 1,128,243; Feb. 9; Gaz. vol. 211; p. 593.
- Gish, John L., South Bend, Ind. Sanitary flushing-tank. No. 1,147,935; July 27; Gaz. vol. 216; p. 1103.
- Gisholt Machine Company. (See McCabe, Horace B., assignor.)
- Gisholt Machine Company. (See Miller, William L., assignor.)
- Gisholt Machine Company. (See Schmeltzkopf, Edward C., assignor.)
- Gisholt Machine Company. (See Seward, Ernest R., assignor.)
- Gitelman, Sol. (See Ellman and Paull, assignors.)
- Gitt, Robert S., Littlestown, Pa. Poultry-feeding device. No. 1,125,839; Jan. 19; Gaz. vol. 210; p. 1010.
- Gitz, John, Orange, N. J. Fan-actuating means. No. 1,162,154; Nov. 30; Gaz. vol. 220; p. 1495.
- Gitzendanner, Charles, assignor to Kast Insetting & Gathering Machine Company, New York, N. Y. Signature-handling mechanism. No. 1,142,417; June 8; Gaz. vol. 215; p. 506.
- Gluffré, Antonino, Revere, Mass. Stove, hot-water and steam heater, and furnace. No. 1,149,906; Aug. 10; Gaz. vol. 217; p. 612.
- Giusto, Nicola, New York, N. Y. Collapsible awning and frame. No. 1,125,512; Jan. 19; Gaz. vol. 210; p. 893.
- Given, James B., Chicago, Ill. Coin-holder. No. 1,126,192; Jan. 26; Gaz. vol. 210; p. 1172.
- Given, Peter C., *et al.* (See Miller, Benjamin D., assignor.)
- Givens, Dorwin F. (See Hughes and Givens.)
- Givens, Frank C., Tuolumne, Cal. Spring. No. 1,134,839; Apr. 6; Gaz. vol. 213; p. 272.
- Gladhill, Harvey W., Chambersburg, Pa. Sifter and driving mechanism therefor. No. 1,124,222; Jan. 5; Gaz. vol. 210; p. 350.
- Gladstone, Ernest S., Liverpool, England, assignor to Martin Marine Life Saving Devices, Limited, Toronto, Ontario, Canada. Boat stowing and launching apparatus. No. 1,126,444; Jan. 26; Gaz. vol. 210; p. 1261.
- Gladwin, Charles C., New York, N. Y. Adjustable punch and die. No. 1,138,860; May 11; Gaz. vol. 214; p. 440.

- Gladwin, Charles C., New York, N. Y. Combination punch and clamping-tool. No. 1,144,120; June 22; Gaz. vol. 215; p. 1162.
- Gladwin, Charles C., New York, N. Y. Punching-tool. No. 1,147,234; July 20; Gaz. vol. 216; p. 831.
- Glaeske, Otto F., Medicine Lake, Mont. Wagon-tongue. No. 1,165,243; Dec. 21; Gaz. vol. 221; p. 964.
- Glafke, Charles E., Portland, Oreg. Nail-puller. No. 1,135,105; Apr. 13; Gaz. vol. 213; p. 409.
- Glaessner, Arthur. (See P'm and Glaessner.)
- Glancy, Willie R. (See Young and Glancy.)
- Glantz, Ludwig B., Minden, Nebr. Sharpening attachment for ensilage-cutters. No. 1,149,255; Aug. 10; Gaz. vol. 217; p. 375.
- Glardon, Edouard C., Hamburg, Germany. Joint-binder. No. 1,134,378; Apr. 6; Gaz. vol. 213; p. 107.
- Glas, Emil, and B. Sokal, Vienna, Austria-Hungary, assignors to Rapax-Apparatenbau-Gesellschaft m. b. H., Vienna, Austria-Hungary. Rotary reproducing copying or printing machine. No. 1,124,725; Jan. 12; Gaz. vol. 210; p. 579.
- Glasfabrick "De Schie." (See Schneegluth, Wilhelm, assignor.)
- Glasgow, Samuel, Philadelphia, Pa. Combined bumper and fender for automobiles. No. 1,140,899; May 25; Gaz. vol. 214; p. 1226.
- Glasier, Arthur F. (See Carmichael, Henry, assignor.)
- Glass, Charles E., Calro, Ill. Mail-box. No. 1,128,969; Feb. 16; Gaz. vol. 211; p. 897.
- Glass, Edward F., Altoona, Pa. Lubricating-cup. No. 1,158,201; Oct. 26; Gaz. vol. 219; p. 1124.
- Glass, Ida V. (See Brooks, Asa P., assignor.)
- Glass, Kallmann. (See Wulkan and Glass.)
- Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,132,926; Mar. 23; Gaz. vol. 212; p. 1209.
- Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-marking machine. No. 1,141,329; June 1; Gaz. vol. 215; p. 86.
- Glass, William, London, England. Apparatus for playing a table game. No. 1,126,980; Feb. 2; Gaz. vol. 211; p. 111.
- Glass, William C., assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding mechanism. No. 1,135,175; Apr. 13; Gaz. vol. 213; p. 433.
- Glass, William C., Roslindale, assignor to United Printing Machinery Company, Boston, Mass. Gripping device. No. 1,139,760; May 18; Gaz. vol. 214; p. 790.
- Glassman, Isador, Kalamazoo, Mich. Scabbard or holster hanger. No. 1,131,054; Mar. 9; Gaz. vol. 212; p. 455.
- Glatt, Eugene. (See Iron, John W., assignor.)
- Glatt, Morris, Chicago, Ill. Suspender-clasp. No. 1,152,408; Sept. 7; Gaz. vol. 218; p. 9.
- Glau, August O., Aberdeen, S. D. Rake. No. 1,128,130; Feb. 9; Gaz. vol. 211; p. 555.
- Glauber Brass Manufacturing Company. (See Fischer, Arthur I., assignor.)
- Glauber, Joseph H., deceased, Cleveland, Ohio; The Citizens Savings & Trust Company, executor. Coupling member for plumbing connections. No. 1,136,226; Apr. 20; Gaz. vol. 213; p. 841.
- Glawson, James L., assignor of one-half to H. W. Knowlton, Americus, Ga. Extension-harrow. No. 1,141,330; June 1; Gaz. vol. 215; p. 86.
- Glazbrook, John. (See Hodgson and Glazbrook.)
- Glaze, Earl L., Lexington, Ky. Seed-stripper. No. 1,133,720; Mar. 30; Gaz. vol. 212; p. 1531.
- Gleason, Edward D., New York, assignor, by mesne assignments, to Neu-Metals and Process Company, Long Island City, N. Y. Iron, boron, carbon, and copper alloy. No. 1,126,629; Jan. 26; Gaz. vol. 210; p. 1330.
- Gleason, Edward D., New York, assignor, by mesne assignments, to Neu-Metals and Process Company, Long Island City, N. Y. Making alloys. No. 1,136,909; Apr. 20; Gaz. vol. 213; p. 1084.
- Gleason, Edward D., Flatbush, assignor to R. H. King, Brooklyn, N. Y. Making alloys. No. 1,133,019; Mar. 23; Gaz. vol. 212; p. 1245.
- Gleason, Frederick W., Lestershire, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Holder for heels or top-lifts. No. 1,143,900; June 22; Gaz. vol. 215; p. 1083.
- Gleason, Henry M., Philadelphia, Pa. Apparatus for operating bulkhead-doors. No. 1,131,832; Mar. 16; Gaz. vol. 212; p. 763.
- Gleason, Isaac E., assignor of one-half to F. W. Farrington, Minneapolis, Minn. Fireproof partition. No. 1,134,736; Apr. 6; Gaz. vol. 213; p. 239.
- Gleason, Thomas F., assignor of one-third to H. Roth and one-third to E. Nelson, Muscatine, Iowa. Fence-wire stretcher. No. 1,126,445; Jan. 26; Gaz. vol. 210; p. 1261.
- Gleason Works. (See Slade, Leon D. and A. P., assignors.)
- Gledhill, Edward C., Gallion, Ohio. Car-unloading apparatus. No. 1,126,748; Feb. 2; Gaz. vol. 211; p. 30.
- Gledhill, George A., Milwaukee, Oreg. Overall-suspender attachment. No. 1,153,060; Sept. 7; Gaz. vol. 218; p. 247.
- Gleeson, George A., Chicago, Ill. Hair-fastener. No. 1,146,934; July 20; Gaz. vol. 216; p. 726.
- Gleeson, Michael F., Palmer, assignor to Wright Wire Company, Worcester, Mass. Foundry-riddle. No. 1,147,858; July 27; Gaz. vol. 216; p. 1076.
- Gleeson, William H., San Francisco, Cal. Automatic pressure-reducing valve. No. 1,147,937; July 27; Gaz. vol. 216; p. 1103.
- Gleeson, William H., San Francisco, Cal. Automatic pressure-reducing and throttle valve. No. 1,151,262; Aug. 24; Gaz. vol. 217; p. 1202.
- Gleeson, William O., Bedford, Ohio. Sewer-pipe section. No. 1,123,866; Jan. 5; Gaz. vol. 210; p. 228.
- Gleiche, Carl, assignor to Stock Motorpfug Gesellschaft Mit Beschränkter Haftung, Berlin, Germany. Steering device for agricultural machines. No. 1,155,351; Oct. 5; Gaz. vol. 219; p. 9.
- Glenn, Chambers E., Terra Alta, W. Va. Adjustable steering-column for automobiles and the like. No. 1,158,202; Oct. 26; Gaz. vol. 219; p. 1124.
- Glenn, Guy J., Imbler, Oreg. Grain-shocker. No. 1,124,416; Jan. 12; Gaz. vol. 210; p. 467.
- Glenn, John W., assignor of one-half to V. B. Pounds, Indianapolis, Ind. Tobacco-press. No. 1,136,119; Apr. 20; Gaz. vol. 213; p. 802.
- Glenn L. Martin Company. (See Martin, Glenn L., assignor.)
- Glenn, Miles C., Greensboro, N. C. Sanding device for locomotives. No. 1,155,910; Oct. 5; Gaz. vol. 219; p. 204.
- Glenn, Thomas F., Ardmore, Pa. Artificial tooth. No. 1,163,141; Dec. 7; Gaz. vol. 221; p. 141.
- Glens Falls Lumber Co. (See Gifford, Jay, assignor.)
- Glentworth, Clarence A., et al. (See Bostwick, Seymour A., assignor.)
- Glessner, Charles E., Linnton, assignor of one-half to J. C. Jones, Portland, Oreg. Tilting floor-section. No. 1,144,651; June 29; Gaz. vol. 215; p. 1372.
- Glidden, George B., Brighton, assignor to George Frost Company, Boston, Mass. Garter. No. 1,138,554; May 4; Gaz. vol. 214; p. 291.
- Glidden, John E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heeling-machine. No. 1,138,948; May 11; Gaz. vol. 214; p. 469.
- Glidden, John E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel gripping and centering device. No. 1,139,267; May 11; Gaz. vol. 214; p. 581.
- Glidden, John E., deceased, Beverly, Mass.; S. E. Glidden, administratrix, assignor to United Shoe Machinery Company, Paterson, N. J. Scouring-machine. No. 1,126,749; Feb. 2; Gaz. vol. 211; p. 30.
- Glidden, John E., deceased; S. E. Glidden, administratrix, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-attaching machine. No. 1,137,476; Apr. 27; Gaz. vol. 213; p. 1326.
- Glidden, John E., deceased, Beverly, Mass.; S. E. Glidden, administratrix, assignor to United Shoe Machinery Company, Paterson, N. J. Compressing-machine. No. 1,147,160; July 20; Gaz. vol. 216; p. 804.
- Glidden, Lester L., Natick, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heeling-machine. No. 1,157,688; Oct. 26; Gaz. vol. 219; p. 944.
- Glidden, Sadie E., administratrix. (See Glidden, John E.)
- Glidden Varnish Company, The. (See Gillette, John C., assignor.)
- Glisson, Amos A., Fort Worth, Tex. Means for facilitating the use of railway-schedules. No. 1,132,333; Mar. 16; Gaz. vol. 212; p. 945.
- Globe Anti-Friction Roller Bearing Company. (See Wolf, Karl, assignor.)
- Globe Foundry & Machine Company. (See Klumb, Paul, assignor.)
- Globe Iron Works. (See De Gaston and McLean, assignors.)
- Globe Manufacturing Company. (See Snow, Frederick, assignor.)
- Globe Register Company, The. (See Konerman, Harry, assignor.)
- Globe-Wernicke Company, The. (See Dom, Chesley, assignor.)
- Gloddy, Nelson, Hillsboro, N. H. Garment-form. No. 1,159,926; Nov. 9; Gaz. vol. 220; p. 567.
- Glockler, John E., Pittsburgh, Pa. Cooking-range. No. 1,165,004; Dec. 21; Gaz. vol. 221; p. 879.
- Glogner, Gerhardt, St. Joseph, Mo. Hog-ring. No. 1,153,061; Sept. 7; Gaz. vol. 218; p. 247.
- Glov, Michael, Brooklyn, N. Y. Magazine-gun. No. 1,164,498; Dec. 14; Gaz. vol. 221; p. 662.
- Glover, Beverly W., Harrisburg, assignor of two-thirds to I. W. Matter, West Fairview, and J. M. Delaney, Harrisburg, Pa. Fountain brush and mop. No. 1,159,582; Nov. 9; Gaz. vol. 220; p. 442.
- Glover Brothers (Witham) Limited. (See Warren, Charles, assignor.)
- Glover, E. R., et al. (See Holsey, Walter R., assignor.)
- Glover, Oscar, Louisville, Ky. Fuel-economizer for internal-combustion engines. No. 1,165,871; Dec. 28; Gaz. vol. 221; p. 1221.
- Glover, Samuel, St. Helens, and J. West, Southport, England. Regenerator-setting for vertical retorts. No. 1,127,228; Feb. 2; Gaz. vol. 211; p. 199.

Alphabetical list of patentees—Continued.

- Gloversville Silk Mills, The. (See Burr, Jason L., assignor.)
- Glowacki, John B., Chicago, Ill. Dust and weather proofing construction. No. 1,131,693; Mar. 16; Gaz. vol. 212; p. 711.
- Glowinski, Joseph A., and E. Sladek, Chicago, Ill. Key-fastener. No. 1,146,423; July 13; Gaz. vol. 216; p. 527.
- Gluckman, Charles, New York, N. Y. Faucet attachment. No. 1,163,081; Dec. 7; Gaz. vol. 221; p. 121.
- Glunt, Omer M., Rutherford, N. J., assignor to Western Electric Company, New York, N. Y. Spring-jack. No. 1,126,193; Jan. 26; Gaz. vol. 210; p. 1172.
- Glunt, Samuel P., Union City, Ind. Sliding-door fastener. No. 1,162,232; Nov. 30; Gaz. vol. 220; p. 1522.
- Glynn, Frank, Perth Amboy, N. J. Amusement-railway. No. 1,127,753; Feb. 9; Gaz. vol. 211; p. 421.
- Glynn, Frank E., Grand Junction, Colo. Combined clamp and collar-button. No. 1,160,066; Nov. 9; Gaz. vol. 220; p. 613.
- Glynn, James R., South Omaha, Nebr. Nut-lock. No. 1,139,029; May 11; Gaz. vol. 214; p. 500.
- Gmür-Zehnder, Gottlieb, Aarau, Switzerland. Treatment of refractory metals. No. 1,150,670; Aug. 17; Gaz. vol. 217; p. 941.
- Gobatti, Edmund F., Pueblo, Colo. Lock-nut device. No. 1,138,861; May 11; Gaz. vol. 214; p. 440.
- Goble, Bert G., Tulsa, Okla. Bearing. No. 1,131,694; Mar. 16; Gaz. vol. 212; p. 711.
- Goble, Mason O. (See Johnson and Hollingsworth, assignors.)
- Goble, Walter A., assignor of one-fourth to C. B. Magennis, Grand Rapids, Mich. Piano-key mounting. No. 1,148,085; July 27; Gaz. vol. 216; p. 1157.
- Goby, Clifford S., assignor to The Engine Holdings Company, Cleveland, Ohio. Internal-combustion engine. No. 1,133,852; Mar. 30; Gaz. vol. 212; p. 1578.
- Goby Engine Company, The. (See Fay, Thomas J., assignor.)
- Gocke, Gustav G., York, Nebr. Recoil-register. No. 1,150,756; Aug. 17; Gaz. vol. 217; p. 971.
- Godan, Anton, assignor to Firm of E. Nack's Nachfolger, Kattowitz, Germany. Hauling plant. No. 1,148,225; July 27; Gaz. vol. 216; p. 1206.
- Godhe, Murray C., Salt Lake City, Utah. Ore-leaching apparatus. No. 1,150,263; Aug. 17; Gaz. vol. 217; p. 801.
- Godherson, Henry M., and T. H. Montgomery, Denison, Iowa; said Montgomery assignor to said Godherson. Check-displayer. No. 1,166,348; Dec. 28; Gaz. vol. 221; p. 1392.
- Goddard, Allison F., Rankin, Ill. Rotary fly-brush. No. 1,137,602; Apr. 27; Gaz. vol. 213; p. 1368.
- Goddard, Allison F., Rankin, Ill. Fly-brush. No. 1,151,174; Aug. 24; Gaz. vol. 217; p. 1172.
- Goddard, Arthur S., assignor to Waterbury Mfg. Co., Waterbury, Conn. Letter-box. No. 1,152,941; Sept. 7; Gaz. vol. 218; p. 207.
- Goddard, Harry C., Rolfe, Iowa. Attachment for typewriters. No. 1,163,906; Dec. 14; Gaz. vol. 221; p. 455.
- Goddard, Joseph, Rochester, assignor to Seneca Camera Manufacturing Company, New York, N. Y. Winding-key for roll-holding cameras. No. 1,133,128; Mar. 23; Gaz. vol. 212; p. 1283.
- Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Sliding catch. No. 1,163,002; Dec. 7; Gaz. vol. 221; p. 94.
- Goddard, Joseph, and W. S. Hutchings, assignors to Seneca Camera Manufacturing Company, Rochester, N. Y. Photographic camera. No. 1,129,665; Feb. 23; Gaz. vol. 211; p. 1174.
- Goddard, Joseph, and W. S. Hutchings, assignors to Seneca Camera Manufacturing Company, Rochester, N. Y. Fastener for camera-backs. No. 1,151,781; Aug. 31; Gaz. vol. 217; p. 1425.
- Goddard, Nahum D. (See Larson, Carl L., assignor.)
- Goddard, Robert H., Worcester, Mass. Method of and means for producing electrically-charged particles. No. 1,137,964; May 4; Gaz. vol. 214; p. 85.
- Goddard, Robert H., Worcester, Mass. Apparatus for producing gases. No. 1,154,009; Sept. 21; Gaz. vol. 218; p. 653.
- Goddard, Robert H., Worcester, Mass. Method of and apparatus for producing electrical impulses or oscillations. No. 1,159,209; Nov. 2; Gaz. vol. 220; p. 278.
- Goddard, Wilfred R., Cleveland, Ohio. Illuminating-mirror. No. 1,138,552; May 4; Gaz. vol. 214; p. 290.
- Göddertz, Peter, New York, N. Y. Key-tester for player-pianos. No. 1,141,331; June 1; Gaz. vol. 215; p. 87.
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,124,417; Jan. 12; Gaz. vol. 210; p. 467.
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for transmitting rotary motion. No. 1,162,233; Nov. 30; Gaz. vol. 220; p. 1522.
- Godfrey, Jules F., and A. J. Kugler, New York, N. Y. Gage for hinges. No. 1,128,970; Feb. 16; Gaz. vol. 211; p. 897.
- Godfrey, James. (See Craft, Lewis W., assignor.)
- Godfrey, James, Pittcock, Pa. Steel cushion cross-tie. No. 1,149,128; Aug. 3; Gaz. vol. 217; p. 225.
- Godfrey, Joseph H., Chicago, Ill. Bottle-filling device. No. 1,149,256; Aug. 10; Gaz. vol. 217; p. 376.
- Godfrey, Truman M. (See Kobman, Hoffman, and Godfrey.)
- Godfrey, Walter D., Pittsburgh, Pa. Dust-mop. No. 1,138,373; May 4; Gaz. vol. 214; p. 230.
- Godfrey, William H., Somerville, Mass. Weather-strip attachment. No. 1,141,390; June 1; Gaz. vol. 215; p. 109.
- Godin, Felix, and G. P. Bosworth, Central Falls, assignors to Hemphill Manufacturing Co., Pawtucket, R. I. Hosiery-knitting machine. No. 1,129,288; Feb. 23; Gaz. vol. 211; p. 1043.
- Godlesky, Peter. (See Onyskow, Silvester, assignor.)
- Godlewski, Paul, Sunbury, Pa. Insect-extermimator. No. 1,127,880; Feb. 9; Gaz. vol. 211; p. 463.
- Godley, Charles E., Detroit, Mich. Vehicle-lamp. No. 1,125,089; Jan. 19; Gaz. vol. 210; p. 742.
- Godley, Jesse E., and J. M. Carroll, Vallejo, assignors to Sperry Flour Company, San Francisco, Cal. Box-strapping machine. No. 1,130,160; Mar. 2; Gaz. vol. 212; p. 110.
- Godsal, Philip T., Iseoyd Park, county of Flint, near Whitchurch, England. Small-arm. No. 1,139,268; May 11; Gaz. vol. 214; p. 581.
- Godshalk, Clarence A., Philadelphia, Pa. Firearm. No. 1,137,477; Apr. 27; Gaz. vol. 213; p. 1326.
- Goebel, William A. (See Heinz and Goebel.)
- Goelen, Charles, Fordyce, Nebr. Rubbing-post. No. 1,138,553; May 4; Gaz. vol. 214; p. 291.
- Goeglein, William J., Goldfield, assignor of one-half to E. A. Colburn, Jr., Victor, Colo. Forming metal sprouts. No. 1,155,652; Oct. 5; Gaz. vol. 219; p. 114.
- Goeler, Frederick, San Francisco, Cal. Sheet-metal-bending machine. No. 1,131,055; Mar. 9; Gaz. vol. 212; p. 456.
- Goeler, Frederick, San Francisco, Cal. Sheet-metal-bending machine. No. 1,162,050; Nov. 30; Gaz. vol. 220; p. 1458.
- Goelzer, Walter J., Bloomington, Ill. Muffler. No. 1,128,306; Feb. 16; Gaz. vol. 211; p. 666.
- Goens, Verna W., Covert, Kans. Folding crate. No. 1,149,193; Aug. 10; Gaz. vol. 217; p. 353.
- Goering, Henry A., and S. P. Krehbiel, Moundridge, Kans. Hay rake and stacker. No. 1,146,244; July 13; Gaz. vol. 216; p. 465.
- Goeriz, Oscar C., Oakland, Cal. Rotary pump. No. 1,154,110; Sept. 21; Gaz. vol. 218; p. 688.
- Goetz, Alfred, Berlin, Germany. Winding-frame for small wares. No. 1,151,580; Aug. 31; Gaz. vol. 217; p. 1356.
- Goetz, George, assignor to Streeter-Ames Weighing & Recording Company, Chicago, Ill. Railway recording-scale. No. 1,147,797; July 27; Gaz. vol. 216; p. 1053.
- Goetz, John, West Allis, assignor to The Kempsmith Manufacturing Co., Milwaukee, Wis. Arm for milling-machines. No. 1,153,618; Sept. 14; Gaz. vol. 218; p. 483.
- Goetz, Joseph F., Dayton, Ohio. Crack-filling machine. No. 1,154,305; Sept. 21; Gaz. vol. 218; p. 755.
- Goetz, Julius F., Hartford, Wis. Lightning-rod. No. 1,153,617; Sept. 14; Gaz. vol. 218; p. 483.
- Goetz, Julius F., Hartford, Wis. Lightning-rod. No. 1,162,855; Dec. 7; Gaz. vol. 221; p. 43.
- Goff, Charles W., St. Joseph, Mo. Shingling-bracket. No. 1,159,372; Nov. 9; Gaz. vol. 220; p. 367.
- Goff, Frank, assignor of one-half to W. H. Cox, Camden, N. J. Nut-lock. No. 1,130,810; Mar. 9; Gaz. vol. 212; p. 372.
- Goff, Nara D., Clinton, Iowa. Attaching-link. No. 1,154,987; Sept. 28; Gaz. vol. 218; p. 1016.
- Goff, Samuel B., Camden, N. J. Bottle-filling machine. No. 1,140,032; May 18; Gaz. vol. 214; p. 887.
- Goff, Samuel J., Dallas, Iowa. Washing-machine. No. 1,154,242; Sept. 21; Gaz. vol. 218; p. 733.
- Goheen, Edward E., assignor of one-half to F. J. Blackburn, Jacksonville, Ill. Post-hole digger. No. 1,129,344; Feb. 23; Gaz. vol. 211; p. 1062.
- Goheen, Edward E., assignor of one-half to F. J. Blackburn, Jacksonville, Ill. Post-hole digger. No. 1,129,345; Feb. 23; Gaz. vol. 211; p. 1062.
- Goben, James A. (See Davis, George G., assignor.)
- Gohlke, Max, Berlin, Germany. Thrust-bearing. No. 1,137,263; Apr. 27; Gaz. vol. 213; p. 1250.
- Gohlke, Max, Berlin, Germany. Ball-bearing cage. No. 1,151,581; Aug. 31; Gaz. vol. 217; p. 1357.
- Gold, Benjamin, Indiana Harbor, Ind. Gate-closing device. No. 1,144,899; June 29; Gaz. vol. 215; p. 1459.
- Gold Car Heating & Lighting Company. (See Bailey, Alfred O., assignor.)
- Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
- Gold Car Heating & Lighting Company. (See Kitchen, Frederick T., assignor.)
- Gold, Edward E., assignor to Gold Car Heating and Lighting Company, New York, N. Y. Valve for heating systems and the like. No. 1,133,853; Mar. 30; Gaz. vol. 212; p. 1579.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Valve. No. 1,137,129; Apr. 27; Gaz. vol. 213; p. 1201.

- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Coupling. No. 1,145,363; July 6; Gaz. vol. 216; p. 135.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Hose-coupling. No. 1,145,364; July 6; Gaz. vol. 216; p. 135.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Heating system. No. 1,146,865; July 20; Gaz. vol. 216; p. 700.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Electric heater. No. 1,147,388; July 20; Gaz. vol. 216; p. 885.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Steam-heating system. No. 1,151,937; Aug. 31; Gaz. vol. 217; p. 1479.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Gasket for hose-couplings. No. 1,163,082; Dec. 7; Gaz. vol. 221; p. 121.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Steam-heating system. No. 1,164,806; Dec. 21; Gaz. vol. 221; p. 810.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Steam-heating system. No. 1,164,807; Dec. 21; Gaz. vol. 221; p. 810.
- Gold, Egbert H. (See Airhart and Gold.)
- Gold, Egbert H. (See Frumveller, Joseph, assignor.)
- Gold, Egbert H. (See Reeve, Sidney A., assignor.)
- Gold, Egbert H., Chicago, Ill. Heating system for postal cars. No. 1,131,926; Mar. 16; Gaz. vol. 212; p. 795.
- Gold, Egbert H., Chicago, Ill. Heating system for railway-cars of metal construction. No. 1,131,927; Mar. 16; Gaz. vol. 212; p. 796.
- Gold, Egbert H., Chicago, Ill. Means for accelerating the flow of medium through the radiating-circuits of steam-heating systems. No. 1,162,766; Dec. 7; Gaz. vol. 221; p. 11.
- Gold, Egbert H., Chicago, Ill. Car-heating system. No. 1,162,767; Dec. 7; Gaz. vol. 221; p. 12.
- Gold, Egbert H., Chicago, Ill., and F. F. Coggin, Matawan, N. J. Locking device for hose-couplings. No. 1,159,927; Nov. 9; Gaz. vol. 220; p. 567.
- Gold, Joseph S., Jackson, Ohio. Splint basket. No. 1,163,003; Dec. 7; Gaz. vol. 221; p. 94.
- Gold, Lyman, Charlestown, Ind. Automatic grain cut-off. No. 1,129,083; Feb. 23; Gaz. vol. 211; p. 971.
- Gold, Russell S., assignor to The American Hardware Corporation, New Britain, Conn. Panic-bolt mechanism. No. 1,130,266; Mar. 2; Gaz. vol. 212; p. 147.
- Goldbach, Ernst, Winfield, N. Y. Life-preserver. No. 1,162,909; Dec. 7; Gaz. vol. 221; p. 60.
- Goldberg, Benjamin, New York, N. Y. Combined middy-blouse, rompers, and skirt. No. 1,138,468; May 4; Gaz. vol. 214; p. 263.
- Goldberg, Hyman E., Chicago, Ill. Kinetic-energy reservoir. No. 1,126,750; Feb. 2; Gaz. vol. 211; p. 30.
- Goldberg, Hyman E., assignor of one-half to R. P. Lamont, Chicago, Ill. Controller. No. 1,165,663; Dec. 28; Gaz. vol. 221; p. 1149.
- Goldberg, Isidor, New York, N. Y. Emergency-lamp and box therefor. No. 1,147,859; July 27; Gaz. vol. 216; p. 1076.
- Goldberg, John S., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,128,773; Feb. 16; Gaz. vol. 211; p. 825.
- Goldberg, John S., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,145,138; July 6; Gaz. vol. 216; p. 57.
- Goldberg, John S., assignor to Alemite Metals Company, Chicago, Ill. Grease-cup. No. 1,164,499; Dec. 14; Gaz. vol. 221; p. 662.
- Goldberg, Joseph, New York, N. Y. Corset. No. 1,150,593; Aug. 17; Gaz. vol. 217; p. 915.
- Goldberg, Joseph M., Alexandria, La. Resilient or cushion wheel. No. 1,129,480; Feb. 23; Gaz. vol. 211; p. 1111.
- Goldberg, Louis, Indianapolis, Ind. Ozonator. No. 1,136,227; Apr. 20; Gaz. vol. 213; p. 841.
- Goldberg, Max, New York, N. Y., assignor of four-tenths to F. C. Bailey, Reading, Mich., and one-tenth to H. F. Upton, New York, N. Y. Auto gas-valve. No. 1,146,062; July 13; Gaz. vol. 216; p. 401.
- Goldberg, Maximilian M., assignor of one-half to V. F. King, Dayton, Ohio. Recording device for telephone pay-stations. No. 1,126,751; Feb. 2; Gaz. vol. 211; p. 31.
- Goldberg, Shepard J. (See Mendelson and Goldberg.)
- Goldberg, Shepard J., and A. Mendelson, New York, N. Y. Binding and handle-attaching tape for packages. No. 1,160,878; Nov. 16; Gaz. vol. 220; p. 955.
- Goldberg, Simon Y., Minneapolis, Minn. Support for cuspidors. No. 1,123,519; Jan. 5; Gaz. vol. 210; p. 110.
- Goldberg, Solomon H., assignor to The West Coast Roofing and Manufacturing Company, Chicago, Ill. Prepared roofing. No. 1,123,727; Jan. 5; Gaz. vol. 210; p. 181.
- Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Hair-pin. No. 1,126,752; Feb. 2; Gaz. vol. 211; p. 31.
- Goldberger, Maurice, Fort Wayne, Ind. Metal-melting furnace or retort. No. 1,125,030; Jan. 19; Gaz. vol. 210; p. 743.
- Goldblatt, Harry. (See Morck and Goldblatt.)
- Golden, Alphonsus L., Oakland, Cal. Starter for internal-combustion motors. No. 1,157,690; Oct. 26; Gaz. vol. 219; p. 945.
- Golden, Charles E. (See Anderson, Edward V., assignor.)
- Golden, George. (See Machin and Golden.)
- Golden, John E., Dunmore, Pa. Horseshoe. No. 1,133,276; Mar. 30; Gaz. vol. 212; p. 1371.
- Golden, John E., Minneapolis, Minn. Lifting device. No. 1,150,671; Aug. 17; Gaz. vol. 217; p. 942.
- Golden, John P., Columbus, Ga. Cross-head guide or box for engines. No. 1,164,500; Dec. 14; Gaz. vol. 221; p. 663.
- Golden Manufacturing Company. (See Golden, Maximilian K., assignor.)
- Golden, Maximilian K., assignor to Golden Manufacturing Company, Detroit, Mich. Electric laundry-iron. No. 1,123,520; Jan. 5; Gaz. vol. 210; p. 110.
- Goldensky, Elias, and P. H. Bartlett, Philadelphia, Pa. Photographic-studio-lighting apparatus. No. 1,150,028; Aug. 17; Gaz. vol. 217; p. 716.
- Goldenstein, Maurice M., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,136,668; Apr. 20; Gaz. vol. 213; p. 998.
- Goldfarb, William, New York, N. Y. Sanitary sugar-container. No. 1,154,506; Sept. 21; Gaz. vol. 218; p. 823.
- Goldhamer, William N., St. Louis, Mo. Cooking stove and range. No. 1,127,229; Feb. 2; Gaz. vol. 211; p. 199.
- Goldhammer, Samuel, Denver, Colo. Fountain-feed fly-killer. No. 1,139,030; May 11; Gaz. vol. 214; p. 500.
- Golding, John F., assignor to H. N. Low, Washington, D. C. Reinforcement for concrete. No. 1,142,087; June 8; Gaz. vol. 215; p. 389.
- Golding, Oliver B., Elwood, Ind. Hot-mill furnace. No. 1,138,555; May 4; Gaz. vol. 214; p. 291.
- Golding, William H., Franklin, Mass. Vibrating distributing-roller for printing-presses. No. 1,124,009; Jan. 5; Gaz. vol. 210; p. 275.
- Golding, William H., Franklin, Mass. Inking apparatus for printing-presses. No. 1,124,010; Jan. 5; Gaz. vol. 210; p. 276.
- Goldknopf, Abraham, New York, N. Y. Adjustable lamp for beds. No. 1,154,243; Sept. 21; Gaz. vol. 218; p. 733.
- Goldman, Abraham D., Philadelphia, Pa. Coat-sleeve. No. 1,152,169; Aug. 31; Gaz. vol. 217; p. 1559.
- Goldman, Charles. (See Fisenue, Louis, assignor.)
- Goldman, Mayer L., New York, N. Y. Bottle-seal. No. 1,146,063; July 13; Gaz. vol. 216; p. 401.
- Goldman, Sara, San Francisco, Cal. Sanitary-napkin holder. No. 1,146,245; July 13; Gaz. vol. 216; p. 465.
- Goldman, Rutherford C. (See Harris and Goldman.)
- Goldman, Sigmond L., Chicago, Ill. Bearing constructor. No. 1,160,592; Nov. 16; Gaz. vol. 220; p. 852.
- Goldmann, Philipp, New York, N. Y. Revolving table. No. 1,162,691; Nov. 30; Gaz. vol. 220; p. 1675.
- Goldner, George E., Fort Dodge, Iowa. Apparatus for finishing the ends of hollow clay articles preparatory to drying and firing. No. 1,128,597; Feb. 16; Gaz. vol. 211; p. 765.
- Goldsborough, John B., Croton, N. Y. Underpinning arrangements. No. 1,129,192; Feb. 23; Gaz. vol. 211; p. 1009.
- Goldsborough, John B., Croton, N. Y. Lining excavations and horizontal sheeting. No. 1,143,184; June 15; Gaz. vol. 215; p. 812.
- Goldsborough, John B., Croton-on-Hudson, N. Y. Anchoring steel piles. No. 1,164,085; Dec. 14; Gaz. vol. 221; p. 519.
- Goldsborough, Richard H., Washington, D. C. Turbine. No. 1,151,175; Aug. 24; Gaz. vol. 217; p. 1172.
- Goldsbrough, Harold A. (See Schidrowitz and Goldsbrough.)
- Goldschmidt Detinning Company. (See Back, Alfred de, assignor.)
- Goldschmidt Detinning Company. (See Gensheimer, Philipp, assignor.)
- Goldschmidt Detinning Company. (See Goldschmidt, Hans, assignor.)
- Goldschmidt Detinning Company. (See Goldschmidt and Weber, assignors.)
- Goldschmidt Detinning Company. (See Spitz, Gustav, assignor.)
- Goldschmidt, Hans, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to Goldschmidt Detinning Company, New York, N. Y. Apparatus for detinning tin scrap, boxes, or the like. No. 1,139,410; May 11; Gaz. vol. 214; p. 631.
- Goldschmidt, Hans, Essen-on-the-Ruhr, Germany, assignor to Goldschmidt Detinning Company, New York, N. Y. Electrolytic process of detinning. No. 1,160,400; Nov. 16; Gaz. vol. 220; p. 784.
- Goldschmidt, Hans, Essen-on-the-Ruhr, Germany, assignor to Goldschmidt Detinning Company, New York, N. Y. Electrolytic detinning system. No. 1,160,401; Nov. 16; Gaz. vol. 220; p. 784.
- Goldschmidt, Hans, and O. Weil, Essen-on-the-Ruhr, Germany, assignors to Goldschmidt Thermit Company, New York, N. Y. Producing carbon-free ferrochromium. No. 1,136,669; Apr. 20; Gaz. vol. 213; p. 999.
- Goldschmidt, Hans, and O. Weil, Essen-on-the-Ruhr, Germany, assignors to Goldschmidt Thermit Company, New York, N. Y. Titanium alloys and producing the same. No. 1,136,670; Apr. 20; Gaz. vol. 213; p. 999.

Alphabetical list of patentees—Continued.

- Goldschmidt, Hans, and W. Brewitt, Essen-on-the-Ruhr, Germany, assignors to Goldschmidt Thermit Company, New York, N. Y. Forming parallel faces on the ends of rails and other objects to be butt-welded. No. 1,154,918; Sept. 28; Gaz. vol. 218; p. 993.
- Goldschmidt, Karl, and J. Weber, Essen-on-the-Ruhr, Germany, assignors, by mesne assignments, to Goldschmidt Detinning Company, Jersey City, N. J. Detinning tin-scrap. No. 1,158,128; Oct. 26; Gaz. vol. 219; p. 1099.
- Goldschmidt Thermit Company. (See Goldschmidt and Brewitt, assignors.)
- Goldschmidt Thermit Company. (See Goldschmidt and Weil, assignors.)
- Goldschmidt Thermit Company. (See Lange, Felix, assignor.)
- Goldsmith, Berthold. (See Stoddard and Goldsmith.)
- Goldsmith, Byron B., New York, N. Y. Shipping and display box. No. 1,130,811; Mar. 9; Gaz. vol. 212; p. 372.
- Goldsmith, Byron B., New York, N. Y. Indurated albumen compound. No. 1,134,527; Apr. 6; Gaz. vol. 213; p. 162.
- Goldsmith, Byron B., New York, N. Y. Composition of matter. No. 1,152,625; Sept. 7; Gaz. vol. 218; p. 90.
- Goldsmith, Byron B., New York, N. Y. Rack for pencils. No. 1,158,916; Nov. 2; Gaz. vol. 220; p. 177.
- Goldsmith, Charles B., Oakville, Conn. Baking-oven. No. 1,136,120; Apr. 20; Gaz. vol. 213; p. 802.
- Goldsmith, Edwin P., et al. (See Swikard, Edward L., assignor.)
- Goldsmith, Frederick E., Hamilton, Ohio. Mechanism for coating. No. 1,147,161; July 20; Gaz. vol. 216; p. 804.
- Goldsmith, Frederick E., Middletown, assignor to The Ceramic Machinery Company, Hamilton, Ohio. Process of coating. No. 1,162,349; Nov. 30; Gaz. vol. 220; p. 1563.
- Goldsmith, Maurice, New York, N. Y. Card-case. No. 1,129,346; Feb. 23; Gaz. vol. 211; p. 1063.
- Goldsmith, Nathaniel O., assignor to The Weir Frog Company, Norwood, Ohio. Switch-stand. No. 1,139,964; May 18; Gaz. vol. 214; p. 862.
- Goldsmith, Nathaniel O., assignor to The Weir Frog Company, Norwood, Ohio. Switch-stand. No. 1,165,244; Dec. 21; Gaz. vol. 221; p. 964.
- Goldsmith, William H., Jr., Biddeford, Me., assignor to Saco-Lowell Shops, Boston, Mass. Builder-motion. No. 1,136,417; Apr. 20; Gaz. vol. 213; p. 910.
- Goldsmith, William M., Cincinnati, Ohio. Wall or partition. No. 1,136,792; Apr. 20; Gaz. vol. 213; p. 1042.
- Goldstein, Bernard, Toronto, Ontario, Canada. Bracket-link. No. 1,142,160; June 8; Gaz. vol. 215; p. 414.
- Goldstein, George E., Montreal, Quebec, Canada. Apparatus for curing or artificially aging cigars. No. 1,137,752; May 4; Gaz. vol. 214; p. 11.
- Goldstein, Jacob, and L. Steiner, New York, N. Y. Circuit-closer for speed-indicators. No. 1,149,042; Aug. 3; Gaz. vol. 217; p. 197.
- Goldstein, Samuel, New York, N. Y. Sad-iron. No. 1,163,528; Dec. 7; Gaz. vol. 221; p. 277.
- Goldstein, Simon I., Baltimore, Md. Ferrule construction for umbrella-covers. No. 1,134,121; Apr. 6; Gaz. vol. 213; p. 13.
- Goldstone, Max, New Haven, Conn. Shoe-elongator. No. 1,141,792; June 1; Gaz. vol. 215; p. 248.
- Goldthorpe, Robert R., Hartford, Conn. Tuning-transformer for wireless systems. No. 1,134,840; Apr. 6; Gaz. vol. 213; p. 273.
- Goldy, Ernest S., Haddonfield, N. J. Tooth-brush. No. 1,154,450; Apr. 6; Gaz. vol. 213; p. 134.
- Golightly, William J., Kokomo, Ind., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Supplying abrasive to glass-grinding apparatus. No. 1,136,328; Apr. 20; Gaz. vol. 213; p. 877.
- Golightly, William J., Kokomo, Ind., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Laying-frame for plate-glass. No. 1,146,563; July 13; Gaz. vol. 216; p. 578.
- Gollinsky, Jacob. (See Petterson, Clarence A., assignor.)
- Golthion, John S., and M. McElliot, Bellingham, Wash. Wheel-flange oiler. No. 1,158,798; Nov. 2; Gaz. vol. 220; p. 136.
- Golland, Henry S., Manchester, England. Means for cross-winding yarn in spinning-mules. No. 1,144,652; June 29; Gaz. vol. 215; p. 1373.
- Goller, John C. (See Phelps and Goller.)
- Goller, Lloyd L., Hanston, Kans. Draft appliance. No. 1,143,535; June 15; Gaz. vol. 215; p. 933.
- Gollher, John A., Fulton, Ky. Controlling and cut-off valve for steam-lines. No. 1,144,357; June 29; Gaz. vol. 215; p. 1274.
- Gollos, Anatol, Chicago, Ill. Track apparatus for signal or stop systems. No. 1,163,595; Dec. 7; Gaz. vol. 221; p. 301.
- Gollos, Anatol, Chicago, Ill., assignor to Gollos Railway Signal Company of America. Under-contact rail and support. No. 1,158,203; Oct. 26; Gaz. vol. 219; p. 1124.
- Gollos Railway Signal Company of America. (See Gollos, Anatol, assignor.)
- Golly, Louis, assignor to Mechanics' Specialties Co., Inc., Brooklyn, N. Y. Key removing or pulling tool. No. 1,155,720; Oct. 5; Gaz. vol. 219; p. 137.
- Golly, Louis, Brooklyn, assignor of one-half to J. H. Devreux, Sagaponack, and one-half to L. McKee, New York, N. Y. Key extracting or removing tool. No. 1,155,721; Oct. 5; Gaz. vol. 219; p. 138.
- Gomber, George W., Conyngham, Pa. Milk-bottle closure. No. 1,136,418; Apr. 20; Gaz. vol. 213; p. 911.
- Gomber, George W., Conyngham, assignor to Standard Vending Machine Company, Hazleton, Pa. Insect-killing device. No. 1,161,654; Nov. 23; Gaz. vol. 220; p. 1273.
- Gomes, Joseph P., Watsonville, Cal. Baling-press. No. 1,126,446; Jan. 26; Gaz. vol. 210; p. 1261.
- Gompf, Frank, Cleveland, Ohio. Plant-protector. No. 1,134,841; Apr. 6; Gaz. vol. 213; p. 273.
- Gompf, Oscar G., Gibbons, Mont. Burial-casket. No. 1,149,907; Aug. 10; Gaz. vol. 217; p. 612.
- Gonen, Hayman. (See Neinken and Gonen.)
- Gong Bell Manufacturing Company, The. (See Watrous, Clifford M., assignor.)
- Gonsoulard, Henry P., Oakland, Cal. Closet-hopper. No. 1,139,178; May 11; Gaz. vol. 214; p. 552.
- Gonzalez, Julian, Buenos Aires, Argentina. Hat-fastener. No. 1,140,900; May 25; Gaz. vol. 214; p. 1226.
- Gonzalez, May H., Birmingham, Ala. Electric heater for liquids. No. 1,129,861; Mar. 2; Gaz. vol. 212; p. 10.
- Gooch, Claiborne W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Calculating-machine. No. 1,128,679; Feb. 16; Gaz. vol. 211; p. 793.
- Gooch, Claiborne W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Controlling device for adding-machines and the like. No. 1,150,937; Aug. 24; Gaz. vol. 217; p. 1092.
- Gooch, Orrel A., East Machias, assignor to Forest King Machine Company, Machias, Me. Tree-felling device. No. 1,154,624; Sept. 28; Gaz. vol. 218; p. 893.
- Good, Benjamin H. (See Thurman, George W., assignor.)
- Good, John, Brooklyn, N. Y. Valve mechanism. No. 1,156,991; Oct. 19; Gaz. vol. 219; p. 636.
- Good, May A. S. P. (See Good, Thomas L., assignor.)
- Good, Percy. (See Smith and Good.)
- Good, Thomas L., assignor of one-half to M. A. S. P. Good, Edwardsville, Ill. Potato-planter. No. 1,142,515; June 8; Gaz. vol. 215; p. 541.
- Good, Thomas L., assignor of one-third to H. P. Hotz and one-third to O. T. Dunlap, Edwardsville, Ill. Spring-wheel. No. 1,133,854; Mar. 30; Gaz. vol. 212; p. 1580.
- Goodall, Howard W., Aldan, Pa. Metal-covered hose. No. 1,136,329; Apr. 20; Gaz. vol. 213; p. 877.
- Goodall, John N., Melrose, Mass. Pipe-coupling. No. 1,132,086; Mar. 16; Gaz. vol. 212; p. 853.
- Goodall, John N., Melrose, Mass. Pipe-coupling. No. 1,139,671; May 18; Gaz. vol. 214; p. 760.
- Goodall, John T. (See Vanderziel and Goodall.)
- Goodall Worsted Company. (See Nutter, William S., assignor.)
- Goode, Henry W. (See Dailey and Goode.)
- Goode, Ovelia M., South Bend, Tex. Fender. No. 1,153,779; Sept. 14; Gaz. vol. 218; p. 539.
- Goode, Robert, Boston, Mass. Floor-scrubbing machine. No. 1,126,981; Feb. 2; Gaz. vol. 211; p. 111.
- Goodell, Alfred P., Davisburg, assignor to R. A. Parker, Detroit, Mich. Preserving wood and product thereof. No. 1,134,044; Mar. 30; Gaz. vol. 212; p. 1641.
- Goodell, Homer R., Memphis, Tenn. Name-plate for eye-glass-cases and the like. No. 1,156,772; Oct. 12; Gaz. vol. 219; p. 529.
- Goodell, James M., Westmont, Pa. Dust-catcher. No. 1,125,032; Jan. 12; Gaz. vol. 210; p. 686.
- Goodell-Pratt Company. (See Hapgood, Oscar D., assignor.)
- Goodfellow, Herbert R., assignor to U. S. Slicing Machine Company, Chicago, Ill. Meat clamp or holder. No. 1,124,418; Jan. 12; Gaz. vol. 210; p. 468.
- Goodfellow, Herbert R., Laporte, Ind., assignor to U. S. Slicing Machine Co., Chicago, Ill. Knife-shield for slicing-machines. No. 1,163,335; Dec. 7; Gaz. vol. 221; p. 211.
- Goodhue, Albert H., Chicago, Ill. Can-washing machine. No. 1,165,664; Dec. 28; Gaz. vol. 221; p. 1149.
- Goodhue, Frank M., Van Nuys, Cal. Transmission mechanism. No. 1,132,177; Mar. 16; Gaz. vol. 212; p. 887.
- Goodin, Sebastian H., Woodland, Cal. Vehicle. No. 1,148,769; Aug. 3; Gaz. vol. 217; p. 103.
- Gooding, Charles S., Brookline, Mass., assignor to Judson L. Thomson Mfg Co. Riveting-machine. No. 1,148,073; Aug. 3; Gaz. vol. 217; p. 69.
- Gooding, Charles W., Jr., Wilmington, Del. Internal-combustion engine. No. 1,163,142; Dec. 7; Gaz. vol. 221; p. 141.
- Gooding, Vernon, Clarksburg, W. Va. Tack-driver. No. 1,164,086; Dec. 14; Gaz. vol. 221; p. 519.
- Goodkind, Samuel, New York, N. Y. Carton. No. 1,138,469; May 4; Gaz. vol. 214; p. 263.
- Goodline Manufacturing Company, The. (See Vick, Rollo M., assignor.)
- Goodman, Anne. (See Goodman, Louis and A.)
- Goodman, Augustus and E., and D. Cowen, New York, N. Y., assignors to A. Goodman & Sons. Measuring-machine. No. 1,139,269; May 11; Gaz. vol. 214; p. 582.
- Goodman, David T., Altoona, Pa. Rivet-shearing machine. No. 1,162,856; Dec. 7; Gaz. vol. 221; p. 43.
- Goodman, Edwin. (See Goodman and Cowen.)

- Goodman, Eugene F., New York, N. Y. Coffee-percolator. No. 1,124,011; Jan. 5; Gaz. vol. 210; p. 276.
- Goodman, George. (See Heberling, Wilbur E., assignor.)
- Goodman, Henry, Baltimore, Md. Hat. No. 1,148,311; July 27; Gaz. vol. 216; p. 1237.
- Goodman, Jacob E., Decatur, Ga. Optometer. No. 1,160,710; Nov. 16; Gaz. vol. 220; p. 898.
- Goodman, Jesse B., Muldrow, Okla. Lacing-stud. No. 1,146,246; July 13; Gaz. vol. 216; p. 465.
- Goodman, Lewis W., Lansdowne, Pa. Tool-box. No. 1,131,128; Mar. 9; Gaz. vol. 212; p. 480.
- Goodman, Louis and A., Stockton, Cal. Stapling-machine. No. 1,125,305; Jan. 19; Gaz. vol. 210; p. 821.
- Goodman Manufacturing Company. (See Brande, Louis L., assignor.)
- Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
- Goodman, Patrick L., and J. Peters, Charleston, Ill. Chair. No. 1,131,365; Mar. 9; Gaz. vol. 212; p. 562.
- Goodman, Solomon A., assignor of one-half to G. Brucato, Chicago, Ill. Trousers. No. 1,130,506; Mar. 2; Gaz. vol. 212; p. 234.
- Goodman, William R., Palisade, N. J. Exercising device. No. 1,123,272; Jan. 5; Gaz. vol. 210; p. 23.
- Goodnow, Louise M., New York, N. Y. Catamenial sack. No. 1,157,774; Oct. 26; Gaz. vol. 219; p. 973.
- Goodnow, Harry W., assignor of one-half to H. W. Heckman, Indianapolis, Ind. Sash-lock. No. 1,141,332; June 1; Gaz. vol. 215; p. 87.
- Goodpasture, Charles H., Olympia, Wash. Railway safety device. No. 1,136,793; Apr. 20; Gaz. vol. 213; p. 1042.
- Goodpasture, Thomas B., and T. J. Maxwell, Houston, Tex. Receptacle. No. 1,145,581; July 6; Gaz. vol. 216; p. 211.
- Goodrich, Claude M., assignor of one-half to McFarlane Manufacturing Company, St. Paul, Minn. Scale. No. 1,140,813; May 25; Gaz. vol. 214; p. 1193.
- Goodrich, Judson A., Huntington, Pa. Test apparatus for radiator-sections. No. 1,151,007; Aug. 24; Gaz. vol. 217; p. 1115.
- Goodridge, Gilbert W., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Flush receptacle. No. 1,142,695; June 8; Gaz. vol. 215; p. 600.
- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug fitting. No. 1,143,536; June 15; Gaz. vol. 215; p. 934.
- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug. No. 1,152,170; Aug. 31; Gaz. vol. 217; p. 1559.
- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Chain-guide for pull-switches. No. 1,160,879; Nov. 16; Gaz. vol. 220; p. 955.
- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug and receptacle. No. 1,166,349; Dec. 28; Gaz. vol. 221; p. 1392.
- Goodrow, Paul, Vancouver, British Columbia, Canada. Chain-pulling jack. No. 1,128,772; Feb. 16; Gaz. vol. 211; p. 824.
- Goodrum, Charles L., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill., and New York, N. Y. Telephone system and apparatus. No. 1,135,011; Apr. 13; Gaz. vol. 213; p. 376.
- Goodrum, Charles L., Rochester, assignor, by mesne assignments, to Western Electric Company, New York, N. Y. Automatic telephone system. No. 1,147,389; July 20; Gaz. vol. 216; p. 855.
- Goodrum, Charles L., Rochester, assignor to Western Electric Company, New York, N. Y. Automatic telephone-exchange system. No. 1,156,475; Oct. 12; Gaz. vol. 219; p. 425.
- Goodrum, Charles L., assignor to Western Electric Company, New York, N. Y. Multicoin-collector and rate-indicator for automatic telephone systems. No. 1,137,399; Apr. 27; Gaz. vol. 213; p. 1299.
- Goodrum, Charles L., Urbana, Ohio, assignor, by mesne assignments, to Western Electric Company, New York, N. Y. Switch and circuits for automatic telephone-exchanges. No. 1,147,390; July 20; Gaz. vol. 216; p. 886.
- Goodrum, Charles L., Urbana, Ohio, assignor, by mesne assignments, to Western Electric Company, New York, N. Y. Automatic telephone-exchange. No. 1,161,655; Nov. 23; Gaz. vol. 220; p. 1274.
- Goodrum, Charles L., Athens, Ga., assignor, by mesne assignments, to Western Electric Company, New York, N. Y. Automatic telephony. No. 1,147,716; July 27; Gaz. vol. 216; p. 1026.
- Goodsell, James A., assignor of forty one-hundredths to W. Myers, Hudson, Mich. Rake-tooth cleaner. No. 1,144,703; June 29; Gaz. vol. 215; p. 1391.
- Goodson, George A., Minneapolis, Minn. Means for regulating clocks by Hertzian waves. No. 1,124,129; Jan. 5; Gaz. vol. 210; p. 316.
- Goodspeed, Leland F., Milwaukee, Wis. Internal-combustion engine. No. 1,144,653; June 29; Gaz. vol. 215; p. 1373.
- Goodspeed, Leland F., Pittsburgh, Pa., assignor to H. H. Westinghouse, New York, N. Y. Power-transmission mechanism. No. 1,158,799; Nov. 2; Gaz. vol. 220; p. 137.
- Goodwin, Adolphus D., assignor of one-half to R. M. Crane, Lynchburg, Va. Knife-sharpener. No. 1,165,245; Dec. 21; Gaz. vol. 221; p. 964.
- Goodwin, Albert S., Tacoma, Wash. Boring-tool. No. 1,137,603; Apr. 27; Gaz. vol. 213; p. 1368.
- Goodwin, Benjamin. (See Miles, Don D., Jr., assignor.)
- Goodwin, Dwight S. (See Parks, Charles H., assignor.)
- Goodwin, Ernest G., Roanoke, Va., assignor to Locomotive Superheater Company, New York, N. Y. Locomotive-superheater. No. 1,153,216; Sept. 14; Gaz. vol. 218; p. 338.
- Goodwin, Frederick C., assignor to Modern Construction Company, Louisville, Ky. Apparatus for forming molds. No. 1,133,020; Mar. 23; Gaz. vol. 212; p. 1245.
- Goodwin, Frederick T. H., Longton, Stoke-upon-Trent, England. Grinding-mill. No. 1,134,842; Apr. 6; Gaz. vol. 213; p. 273.
- Goodwin, George H., et al. (See Neville, Harry, assignor.)
- Goodwin, H. (See Madigan, John W., assignor.)
- Goodwin, Henry L., and J. G. Lund, Minneapolis, Minn. Safety door-lock for elevators. No. 1,140,153; July 13; Gaz. vol. 216; p. 433.
- Goodwin, James R. (See Bonenberger and Goodwin.)
- Goodwin, John M., Spokane, Wash. Dumping-car. No. 1,154,761; Sept. 28; Gaz. vol. 218; p. 940.
- Goodwin, Mial B., Norphlet, Ark. Metallic railway-tie. No. 1,159,210; Nov. 2; Gaz. vol. 220; p. 279.
- Goodwin, Thomas, Fall River, Mass., and G. Cheetham, Tiverton, R. I., assignors to J. K. Lanning, Boston, Mass. Stop-motion for looms. No. 1,131,833; Mar. 16; Gaz. vol. 212; p. 763.
- Goodwin, Thomas J. (See Massey and Goodwin.)
- Goodwin, Victor E., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,161,656; Nov. 23; Gaz. vol. 220; p. 1274.
- Goodyear Rubber Company. (See Payne, Fred E., assignor.)
- Goodyear Tire and Rubber Company, The. (See Bailey, Irving R., assignor.)
- Goodyear Tire and Rubber Company, The. (See Darrow, Burgess, assignor.)
- Goodyear Tire and Rubber Company, The. (See Hale, James E., assignor.)
- Goodyear Tire and Rubber Company, The. (See Lewis, Arthur P., assignor.)
- Goodyear Tire and Rubber Company, The. (See Nall, Edward, assignor.)
- Goodyear Tire and Rubber Company, The. (See Nall and Tyler, assignors.)
- Goodyear Tire & Rubber Company, The. (See Stadelman, George M., assignor.)
- Goodyear Tire & Rubber Company, The, et al. (See Wagenhorst, James H., assignor.)
- Goodyear, Watson E. (See Bristol and Goodyear.)
- Goodyear's Metallic Rubber Shoe Company. (See Clark, Myron H., assignor.)
- Goodyear's Metallic Rubber Shoe Company. (See Murrill, Paul I., assignor.)
- Goodyear's Metallic Rubber Shoe Company. (See Rutherford, Eugene W., assignor.)
- Goodyer, Harold J., assignor of one-third to E. R. Burgess and one-third to L. M. Fowler, Racine, Wis. Railway-tie. No. 1,136,871; Apr. 20; Gaz. vol. 213; p. 1070.
- Gogins, Charles E., Brooklyn, N. Y. Steam-boiler furnace. No. 1,140,674; May 25; Gaz. vol. 214; p. 1146.
- Gooslin, Ambrose, Blackberry Creek, Ky. Pipe-grapple. No. 1,144,590; June 29; Gaz. vol. 215; p. 1351.
- Gora, Charles, Athabaska Landing, Alberta, Canada. Vessel. No. 1,138,862; May 11; Gaz. vol. 214; p. 440.
- Gordon, Albert A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Pattern mechanism for looms. No. 1,142,161; June 8; Gaz. vol. 215; p. 415.
- Gordon, Albert A., Jr., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Dobby pattern-cylinder. No. 1,145,677; July 6; Gaz. vol. 216; p. 244.
- Gordon, Alexander, Detroit, Mich. Press for cigar-molds. No. 1,128,598; Feb. 16; Gaz. vol. 211; p. 765.
- Gordon, Alvin, Lexington, Neb. Mechanical amusement device. No. 1,147,391; July 20; Gaz. vol. 216; p. 886.
- Gordon, Beirne, Jr., Utica, N. Y. Protecting device for cotton-spinning machines. No. 1,141,457; June 1; Gaz. vol. 215; p. 133.
- Gordon, Beirne, Jr., Utica, N. Y. Carding-machine. No. 1,165,088; Dec. 21; Gaz. vol. 221; p. 908.
- Gordon Camera Corporation. (See Stratton, Edmond F., assignor.)
- Gordon, Charles, Chelsea, Mass. Hammock-canopy. No. 1,138,210; May 4; Gaz. vol. 214; p. 170.
- Gordon, David D., Chicago, Ill., assignor to Yost Electric Manufacturing Company, Toledo, Ohio. Switching device. No. 1,131,129; Mar. 9; Gaz. vol. 212; p. 480.
- Gordon, David D., Chicago, Ill., assignor to The Yost Electric Manufacturing Company, Toledo, Ohio. Connecting device. No. 1,146,325; July 13; Gaz. vol. 216; p. 492.
- Gordon, David D., Chicago, Ill., assignor to Yost Electric Manufacturing Company, Toledo, Ohio. Switching device. No. 1,146,326; July 13; Gaz. vol. 216; p. 492.
- Gordon, David D., Chicago, Ill., assignor to Yost Electric Manufacturing Company, Toledo, Ohio. Wall-switch. No. 1,149,362; Aug. 10; Gaz. vol. 217; p. 415.

Alphabetical list of patentees—Continued.

- Gordon, David D., Chicago, Ill., assignor to Yost Electric Manufacturing Company, Toledo, Ohio. Switch-operating device. No. 1,155,307; Sept. 28; Gaz. vol. 218; p. 1123.
- Gordon, David D., assignor to Gordon Electric and Manufacturing Co., Chicago, Ill. Switch. No. 1,132,470; Mar. 16; Gaz. vol. 212; p. 993.
- Gordon Electric and Manufacturing Co. (See Gordon, David D., assignor.)
- Gordon, Fritz H., Portland, Oreg. Dry separator and concentrator. No. 1,123,728; Jan. 5; Gaz. vol. 210; p. 181.
- Gordon, George A., Toronto, Ontario, Canada. Metal shingle. No. 1,153,619; Sept. 14; Gaz. vol. 218; p. 484.
- Gordon, Harry, Boise, Idaho. Car-door lock. No. 1,133,953; Mar. 30; Gaz. vol. 212; p. 1611.
- Gordon, Herbert E., Seattle, Wash. Raker-gage. No. 1,165,166; Dec. 21; Gaz. vol. 221; p. 937.
- Gordon, James C., Detroit, Mich. Dough-mixing machine. No. 1,134,328; Apr. 6; Gaz. vol. 213; p. 90.
- Gordon, James C., Detroit, Mich. Mixing dough. No. 1,134,329; Apr. 6; Gaz. vol. 213; p. 90.
- Gordon, James F. (See Stevens, Royal A., assignor.)
- Gordon, James R., et al. (See Manning and Gould, assignors.)
- Gordon, John. (See Brown, Edward N., assignor.)
- Gordon, Joseph F. (See Rowden and Gordon.)
- Gordon, Joseph G., Birmingham, Ala. Barbecue-furnace. No. 1,156,773; Oct. 12; Gaz. vol. 219; p. 529.
- Gordon, Malcolm, Lisburn, Ireland. Yarn winding, twisting, and doubling machine. No. 1,164,343; Dec. 14; Gaz. vol. 221; p. 608.
- Gordon, Max. (See Drosin and Gordon.)
- Gordon, Noel R., Springfield, Ill. Audiphone. No. 1,130,812; Mar. 9; Gaz. vol. 212; p. 372.
- Gordon, Norman. (See Shanley and Gordon.)
- Gordon, Philip, Barre, assignor of one-half to A. Estee, Montpelier, Vt. Frequency-meter. No. 1,137,965; May 4; Gaz. vol. 214; p. 86.
- Gordon, Robert, and B. H. Weston, St. Louis, Mo. Internal-combustion motor. No. 1,136,121; Apr. 20; Gaz. vol. 213; p. 808.
- Gordon, William, Philadelphia, Pa. Toe-calk for horse-shoes. No. 1,151,354; Aug. 24; Gaz. vol. 217; p. 1232.
- Gordon, William, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Jack for boots and shoes. No. 1,145,986; July 13; Gaz. vol. 216; p. 878.
- Gordon, William A., Shelton, assignor to Birmingham Iron Foundry, Derby, Conn. Blas-cutting machine. No. 1,148,162; July 27; Gaz. vol. 216; p. 1185.
- Gore, Frederick W., New York, N. Y. Aerocraft. No. 1,123,729; Jan. 5; Gaz. vol. 210; p. 181.
- Gore, Frederick W., New York, assignor of one-fourth to H. F. Asbury, Brooklyn, and one-fourth to F. Asbury, Huntington, N. Y. Electric-arc lamp. No. 1,139,965; May 18; Gaz. vol. 214; p. 862.
- Gore, Frederick W., Quincy, Mass., assignor of one-fourth to H. F. Asbury, Brooklyn, and one-fourth to F. Asbury, Huntington, N. Y. Electric-arc lamp. No. 1,142,248; June 8; Gaz. vol. 215; p. 445.
- Gore, George W., Johnston City, Ill. Composition roofing-shingle. No. 1,150,425; Aug. 17; Gaz. vol. 217; p. 856.
- Gore, Herbert C., Takoma Park, Md. Making syrup from cider and other fruit-juices. No. 1,141,458; June 1; Gaz. vol. 215; p. 133.
- Gore, Herbert C., Takoma Park, Md., and C. O. Townsend, Washington, D. C. Making syrup from sugar-beets. No. 1,155,806; Oct. 5; Gaz. vol. 219; p. 168.
- Gore, John. (See Graham, Gore, and Sample.)
- Gore, Joseph W., Cape Girardeau, Mo. Steaming apparatus for vamps. No. 1,135,450; Apr. 13; Gaz. vol. 213; p. 528.
- Gore, Normal G., Vineland, N. C. Nail-holding attachment for hammers. No. 1,133,277; Mar. 30; Gaz. vol. 212; p. 1372.
- Goré, William. (See Deacon and Goré.)
- Gorecki, Antoni, Buffalo, N. Y. Antiskid attachment for tires. No. 1,140,590; May 25; Gaz. vol. 214; p. 1118.
- Gores, Henry N. (See Jones, Rexford, and Gores.)
- Gores, Henry N., assignor to American Paper Products Company, St. Louis, Mo. Scoring and slitting mechanism. No. 1,129,481; Feb. 23; Gaz. vol. 211; p. 1112.
- Gorgen, John G., New York, N. Y. Motor-seal. No. 1,159,211; Nov. 2; Gaz. vol. 220; p. 279.
- Gorham Co. (See Fullerton, Rushworth, and Paeth, assignors.)
- Gorham Manufacturing Company. (See Erichsen, Adolph C. E., assignor.)
- Gorham Manufacturing Company. (See Gould, William E., assignor.)
- Gorham Manufacturing Company. (See Webster, Christopher, assignor.)
- Gories, John C., et al. (See Kendall, William S., assignor.)
- Gorin, Fred P. (See Frantz, Charles T., assignor.)
- Gorman, Arthur P., et al. (See German, Solomon, assignor.)
- Gorman, John. (See Marrinan and Gorman.)
- Gorman, John T. (See McMurray, John H., assignor.)
- Gorman, Thomas A. (See Axmacher, Gorman, and Hart.)
- Gorman, Thomas J., Lampman, Saskatchewan, Canada. Mail-bag catching and delivering apparatus. No. 1,155,911; Oct. 5; Gaz. vol. 219; p. 204.
- Gorosa, Carl, Jamaica, N. Y. Muffler. No. 1,131,233; Mar. 9; Gaz. vol. 212; p. 516.
- Gorrell, John B., Kendallville, Ind. Semaphore switch-signal. No. 1,158,482; Nov. 2; Gaz. vol. 220; p. 25.
- Gorrell Steel Spike Lock Railroad Tie Corporation. (See Brown, Augustus F., assignor.)
- Gorton, George, Racine, Wis. Cutting-off saw. No. 1,153,682; Sept. 14; Gaz. vol. 218; p. 504.
- Gorton, George, assignor to Robinson & Robinson, Racine, Wis. Mold for rotary valves. No. 1,137,203; Apr. 27; Gaz. vol. 213; p. 1226.
- Gorton, Georgia, Bay View, Wash. Dish-washing machine. No. 1,159,661; Nov. 9; Gaz. vol. 220; p. 470.
- Gorton-Pew Fisheries Company. (See Cooper, Simon, assignor.)
- Gorton, William E., assignor of one-half to W. F. Hoffman, St. Joseph, Mo. Electric-circuit-controlling switch. No. 1,146,064; July 13; Gaz. vol. 216; p. 401.
- Gorton, William E., assignor of one-half to W. F. Hoffman, St. Joseph, Mo. Filter. No. 1,154,507; Sept. 21; Gaz. vol. 218; p. 824.
- Gorton, William F., Muncie, Ind. Making cutlery. No. 1,155,229; Sept. 28; Gaz. vol. 218; p. 1099.
- Goslar, Heinrich, Aachen, Germany. Conserving organic substances. No. 1,138,602; May 4; Gaz. vol. 214; p. 307.
- Gosline, Daniel P., Boston, Mass. Ventilator. No. 1,139,672; May 18; Gaz. vol. 214; p. 760.
- Gosline, Daniel P., Boston, Mass. Conditioning air. No. 1,155,308; Sept. 28; Gaz. vol. 218; p. 1123.
- Gosliner, Elkan, San Francisco, Cal. Sound-producing amusement device. No. 1,148,451; July 27; Gaz. vol. 216; p. 1285.
- Goss, Harry T., Rutherford, N. J., assignor to J. E. Ogden, Brooklyn, N. Y. Spring-hammer. No. 1,158,678; Nov. 2; Gaz. vol. 220; p. 94.
- Goss, Harry T., Rutherford, N. J., assignor to George H. Frothingham Co., New York, N. Y. Ferry-landing mechanism. No. 1,160,506; Nov. 16; Gaz. vol. 220; p. 822.
- Goss, Harry T., Rutherford, N. J., assignor to George H. Frothingham Co., New York, N. Y. Pier-door. No. 1,163,907; Dec. 14; Gaz. vol. 221; p. 455.
- Goss, Harry T., and J. W. Bryce, Rutherford, N. J., assignors, by mesne assignments, to International Time Recording Company of New York. Recorder. No. 1,124,419; Jan. 12; Gaz. vol. 210; p. 468.
- Goss, John H. (See Cubiac, Michael F., assignor.)
- Goss Printing Press Company, The. (See Evensen, William, assignor.)
- Goss Printing Press Company, The. (See Goss, Samuel G., assignor.)
- Goss Printing Press Company, The. (See Henzl, Albert A., assignor.)
- Goss Printing Press Company, The. (See Johnston, Robert T., assignor.)
- Goss Printing Press Company. (See Seymour, Ralph C., assignor.)
- Goss Printing Press Company, The. (See Terrey, Arthur, assignor.)
- Goss Printing Press Company, The. (See Walser, Joseph J., assignor.)
- Goss Printing Press Company, The. (See Walser and Dresser, assignors.)
- Goss, Samuel F., Atlantic, Iowa. Folding package-carrier for vehicles. No. 1,135,517; Apr. 13; Gaz. vol. 213; p. 551.
- Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Plate-bending machine. No. 1,126,982; Feb. 2; Gaz. vol. 211; p. 111.
- Goss, Samuel G., Glencoe, assignor to Goss Printing Press Company, Chicago, Ill. Plate-finishing machine. No. 1,126,983; Feb. 2; Gaz. vol. 211; p. 112.
- Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Plate-finishing machine. No. 1,126,984; Feb. 2; Gaz. vol. 211; p. 112.
- Goss, Samuel G., Glencoe, Ill., and R. C. Seymour, Larchmont, N. Y. Machine for operating upon webs. No. 1,159,017; Nov. 2; Gaz. vol. 220; p. 210.
- Goss, Walter C., Marcus, Wash. Nut-lock. No. 1,149,043; Aug. 3; Gaz. vol. 217; p. 197.
- Goss, William C., Minneapolis, Minn. Severing device for cigar-bands and the like. No. 1,124,223; Jan. 5; Gaz. vol. 210; p. 351.
- Gössel, Fritz, Frankfurt-on-the-Main, Germany. Manufacture of artificial milk. No. 1,139,031; May 11; Gaz. vol. 214; p. 500.
- Gosselin, Alphonse J. (See Ingle and Gosselin.)
- Gossett, Elwood, Los Angeles, Cal. Artificial stone. No. 1,135,176; Apr. 13; Gaz. vol. 213; p. 433.
- Gossett, Harold W. (See Hadley and Gossett.)
- Goth, Thomas R. (See Walker, Sallie B., assignor.)
- Gottlieb, Barnett, New York, N. Y. Checking device for runaways. No. 1,159,212; Nov. 2; Gaz. vol. 220; p. 279.
- Gottesman, Edward. (See Katko, Stephen, assignor.)
- Gottesman, Frank, New York, N. Y. Table attachment for beds. No. 1,137,753; May 4; Gaz. vol. 214; p. 11.
- Gottfried, Paul, et al. (See Groh, Robert C., assignor.)

- Gottlieb, Rudolf, Brünn, Austria-Hungary. Apparatus for spraying designs on fabrics. No. 1,143,953; June 22; Gaz. vol. 215; p. 1102.
- Gottlob, Kurt. (See Hofmann and Gottlob.)
- Gottlob, Kurt, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Caoutchouc substance and making same. No. 1,149,577; Aug. 10; Gaz. vol. 217; p. 491.
- Gottschalk, Albert, New York, N. Y., assignor to National Pneumatic Company, Chicago, Ill. Fluid-pressure door-operating device. No. 1,134,608; Apr. 6; Gaz. vol. 213; p. 191.
- Gottschalk, Albert, and J. S. Hollowell, Philadelphia, Pa. Advertising mechanism. No. 1,140,675; May 25; Gaz. vol. 214; p. 1146.
- Gottschalk Automatic Brick Oven Company. (See Gottschalk, Hugo, assignor.)
- Gottschalk & Co. (See Gottschalk, Hugo, assignor.)
- Gottschalk, Felix, Stirling, N. J. Device for detecting mechanical vibration. No. 1,137,478; Apr. 27; Gaz. vol. 213; p. 1326.
- Gottschalk, Felix, Stirling, N. J. Resistance-cell for transmitters. No. 1,137,479; Apr. 27; Gaz. vol. 213; p. 1327.
- Gottschalk, Felix, Stirling, N. J. Automatic fire-alarm system. No. 1,139,859; May 18; Gaz. vol. 214; p. 825.
- Gottschalk, Felix, Stirling, N. J. Automatic fire-alarm system. No. 1,147,014; July 20; Gaz. vol. 216; p. 754.
- Gottschalk, Felix, Stirling, N. J. Fire-alarm system. No. 1,148,014; July 27; Gaz. vol. 216; p. 1130.
- Gottschalk, Felix, Stirling, N. J. Fire-alarm system. No. 1,152,942; Sept. 7; Gaz. vol. 218; p. 207.
- Gottschalk, Felix, Stirling, N. J. Fire-alarm system. No. 1,155,722; Oct. 5; Gaz. vol. 219; p. 138.
- Gottschalk, Hugo, Burnham, Pa., assignor to Gottschalk Automatic Brick Oven Company, Inc., New York, N. Y. Baker's oven. No. 1,137,711; Apr. 27; Gaz. vol. 213; p. 1402.
- Gottschalk, Hugo, Burnham, Pa., assignor to Gottschalk Automatic Brick Oven Company, Inc., New York, N. Y. Dough-container for baking hearth-bread in automatic ovens. No. 1,151,355; Aug. 24; Gaz. vol. 217; p. 1232.
- Gottschalk, Hugo, Burnham, Pa., assignor to Gottschalk Automatic Brick Oven Company, Inc., New York, N. Y. Baking hearth-bread. No. 1,151,356; Aug. 24; Gaz. vol. 217; p. 1232.
- Gottschalk, Hugo, assignor to Gottschalk & Co., Inc., Reedsville, Pa. Pan cleaning and greasing machine. No. 1,153,683; Sept. 14; Gaz. vol. 218; p. 505.
- Gottwals, William O., Washington, D. C. Drawer-guide. No. 1,159,490; Nov. 9; Gaz. vol. 220; p. 409.
- Goucher, James L., New York, N. Y., assignor, by mesne assignments, to The New York Conveyancers Company. Apparatus for electrolytic purification of liquids. No. 1,145,862; July 6; Gaz. vol. 216; p. 310.
- Goudard, Edmond F., Neuilly-sur-Seine, France. Cock. No. 1,166,350; Dec. 28; Gaz. vol. 221; p. 1393.
- Goudard, Maurice, and M. Mennesson, Levallois-Perret, France. Carbureter. No. 1,149,908; Aug. 10; Gaz. vol. 217; p. 613.
- Goude, James L., Spokane, Wash. Base-ball-pitching machine. No. 1,162,910; Dec. 7; Gaz. vol. 221; p. 61.
- Goudy, George W., Highland, N. Y. Combined egg-tester and mailing-tube. No. 1,156,476; Oct. 12; Gaz. vol. 219; p. 426.
- Gouger, George H., Charlotte, N. Y. Sectional square. No. 1,124,224; Jan. 5; Gaz. vol. 210; p. 351.
- Gouget de Casteras, Raymond B. (See Gargam, Gouget de Casteras, and Jeanjean.)
- Gouget, Felix, Elkhart, Ind. Under-water-operated musical apparatus. No. 1,164,501; Dec. 14; Gaz. vol. 221; p. 663.
- Gough, Arthur P. (See Gregson and Gough.)
- Gough, William T., Nottingham, England. Frame or support of mosquito-curtains. No. 1,124,420; Jan. 12; Gaz. vol. 210; p. 468.
- Gougnet, Louis J., and J. Mentis, Chico, Cal. Hydrocarbon-burner. No. 1,158,043; Oct. 26; Gaz. vol. 219; p. 1068.
- Goularte, Manoel F. (See Rasmussen and Goularte.)
- Gould, Albert C. M. (See Manning and Gould.)
- Gould, Albert E., assignor to American Metal Weather Strip Company, Grand Rapids, Mich. Weather-strip. No. 1,136,794; Apr. 20; Gaz. vol. 213; p. 1043.
- Gould, Charles W., Los Angeles, Cal. Automatic control for burner-valves. No. 1,135,891; Apr. 13; Gaz. vol. 213; p. 683.
- Gould, Clarke S., Norwood, Mass. Book carrier and cover. No. 1,136,598; Apr. 20; Gaz. vol. 213; p. 974.
- Gould Coupler Company. (See Bouché, William F., assignor.)
- Gould Coupler Company. (See Davis, Donald C., assignor.)
- Gould Coupler Company. (See Fessenden, George R., Jr., assignor.)
- Gould Coupler Company. (See Hartmann, Carl, assignor.)
- Gould Coupler Company. (See Jepson, John W., assignor.)
- Gould Coupler Company. (See McGary, Alexander, assignor.)
- Gould Coupler Company. (See Milne, George G., assignor.)
- Gould Coupler Company. (See Richards, Willard F., assignor.)
- Gould Coupler Company. (See Turbayne, William A., assignor.)
- Gould & Eberhardt. (See Zimmermann, William F., assignor.)
- Gould, Isador M., Philadelphia, Pa. Adjustable neckband for wearing-apparel. No. 1,135,682; Apr. 13; Gaz. vol. 213; p. 610.
- Gould, James A., El Reno, Okla. Rake. No. 1,139,270; May 11; Gaz. vol. 214; p. 582.
- Gould, Ralph E., Hartford, Conn. Setting device for sulky-plows. No. 1,133,558; Mar. 30; Gaz. vol. 212; p. 1472.
- Gould, Richard T., Newcastle, Ireland. Chart-rule. No. 1,124,421; Jan. 12; Gaz. vol. 210; p. 469.
- Gould, Roland D., Hood River, Oreg. Connecting-pipe for faucets. No. 1,133,954; Mar. 30; Gaz. vol. 212; p. 1611.
- Gould Storage Battery Company. (See Chamberlain, Rufus N., assignor.)
- Gould Storage Battery Company. (See Hubbard, Albert S., assignor.)
- Gould Storage Battery Company. (See Snyder, Almond H., assignor.)
- Gould Storage Battery Company. (See Turbayne, William A., assignor.)
- Gould Storage Battery Company. (See Van Wagenen, Edward, assignor.)
- Gould, Sylvester O., Marion, Ind. Engine. No. 1,129,086; Feb. 23; Gaz. vol. 211; p. 972.
- Gould, William R., South Orange, N. J. Trunk or case stay. No. 1,131,366; Mar. 9; Gaz. vol. 212; p. 562.
- Gould, William E., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Hinge. No. 1,132,927; Mar. 23; Gaz. vol. 212; p. 1209.
- Gouldbourn, Joseph. (See Bates and Gouldbourn.)
- Gouldbourn, Joseph. (See Jerram, Gouldbourn, and Bates.)
- Gouldbourn, Joseph, and R. B. Woodcock, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Work-support for shoe machinery. No. 1,147,162; July 20; Gaz. vol. 216; p. 805.
- Gouldbourn, Joseph, A. Bates, and A. E. Jerram, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for shaping the materials of the rear portion of a boot or shoe upper. No. 1,156,897; Oct. 19; Gaz. vol. 219; p. 603.
- Gouldh, Andrew N., Lodi, Cal. Twin rotary harrow. No. 1,145,240; July 6; Gaz. vol. 216; p. 93.
- Goulding, Horatio C., et al. (See Johnson and Alsten, assignors.)
- Gounley, James F., Philadelphia, Pa., assignor to Royal Electrotype Company. Blackleading-machine. No. 1,134,606; Apr. 6; Gaz. vol. 213; p. 190.
- Gounley, James F., Philadelphia, Pa., assignor to Royal Electrotype Company. Blackleading-machine. No. 1,134,607; Apr. 6; Gaz. vol. 213; p. 191.
- Gourlay, Ezra B. H. A., Edmonton, Alberta, Canada. Cabinet. No. 1,153,062; Sept. 7; Gaz. vol. 218; p. 247.
- Goursat, Paul, assignor to Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils, Angoulême, France. Case for cigarette-papers. No. 1,131,505; Mar. 9; Gaz. vol. 212; p. 611.
- Govaerts, Alexander M., Weissert, Nebr. Foot-lift for plows. No. 1,149,129; Aug. 3; Gaz. vol. 217; p. 225.
- Govan, James, Radnor, Pa. Golf-club. No. 1,133,129; Mar. 23; Gaz. vol. 212; p. 1284.
- Gover, Harry S., Bel Air, Md. Cap for railway-ties. No. 1,127,881; Feb. 9; Gaz. vol. 211; p. 468.
- Gover, Harry S., Bel Air, Md. Pressed-steel-cap rail carrier and clamp for ties. No. 1,128,599; Feb. 16; Gaz. vol. 211; p. 766.
- Governale, Antoni. (See Wolf and Governale.)
- Gow, Henry P., Denver, Colo. Dirigible headlight for automobiles. No. 1,149,977; Aug. 10; Gaz. vol. 217; p. 638.
- Gow, John. (See London and Gow.)
- Gowen, Thomas, Seattle, Wash. Fish-canning machine. No. 1,157,527; Oct. 19; Gaz. vol. 219; p. 826.
- Gowland, William, Kemp Town, England. Lens-measure. No. 1,136,419; Apr. 20; Gaz. vol. 213; p. 911.
- Goy, Edward S. (See Nightingale and Goy.)
- Goyette, Joseph W. (See Welch and Goyette.)
- Goyne, Charles, Gorham, Colo. Mino-car lubricator. No. 1,160,067; Nov. 9; Gaz. vol. 220; p. 613.
- Grabau, Hans E., New York, N. Y. Gem-setting machine. No. 1,135,576; Apr. 13; Gaz. vol. 213; p. 572.
- Grabe, Georg, Nikolassee, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Automatic telephone system. No. 1,124,608; Jan. 12; Gaz. vol. 210; p. 536.
- Grabe, Georg, Nikolassee, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Selector for telephone plants. No. 1,161,126; Nov. 23; Gaz. vol. 220; p. 1087.
- Grabowsky, John F., Brokaw, Wis. Folding miter-box. No. 1,155,912; Oct. 5; Gaz. vol. 219; p. 205.

Alphabetical list of patentees—Continued.

- Grahowsky, Robert, Hanover, Germany. Prevention of the deposition of slag in furnaces. No. 1,147,163; July 20; Gaz. vol. 216; p. 805.
- Grace, Henry S., assignor of one-half to J. B. Acton, San Francisco, Cal. Multiple spring. No. 1,125,016; Jan. 12; Gaz. vol. 210; p. 682.
- Grace, John F., New York, N. Y., assignor to Henry R. Worthington. Cooling-tower. No. 1,142,809; June 15; Gaz. vol. 215; p. 680.
- Grace, John F., New York, N. Y., assignor to Henry R. Worthington. Condenser. No. 1,153,217; Sept. 14; Gaz. vol. 218; p. 339.
- Grace, Sergius P., and R. A. L. Snyder, Pittsburgh, Pa. Telephone-receiver. No. 1,161,856; Nov. 30; Gaz. vol. 220; p. 1390.
- Gracely, Harvey T. (See King and Gracely.)
- Grady, Charles B. (See Murray and Grady.)
- Grady, Frank W., Taft, assignor of one-sixth to S. E. Arey, one-sixth to J. J. Hern, Fellows, and one-third to P. M. Davis, Taft, Cal. Elevator. No. 1,150,515; Aug. 17; Gaz. vol. 217; p. 888.
- Grady, Roman C., Bath, Me. Swimmer's attachment. No. 1,124,887; Jan. 12; Gaz. vol. 210; p. 637.
- Grady, Stephen G., Boston, assignor to L. Muther, Newton, Mass. Tool-holder. No. 1,140,770; July 13; Gaz. vol. 216; p. 648.
- Græbe, William C., New York, assignor of one-half to D. Elsen, Brooklyn, N. Y. Sign and holder. No. 1,140,977; May 25; Gaz. vol. 214; p. 1253.
- Graf, Edwin, Rüttli, Switzerland. Card-clothing. No. 1,154,856; Sept. 28; Gaz. vol. 218; p. 971.
- Graf, Frederick, New York, N. Y. Ruling device. No. 1,163,527; Dec. 7; Gaz. vol. 221; p. 277.
- Graf, Friedrich W. L. (See Humm, Hans, assignor.)
- Graf, Raymond I., assignor to National Brass Company, Grand Rapids, Mich. Assembling and securing together separated parts. No. 1,165,089; Dec. 21; Gaz. vol. 221; p. 909.
- Graf, William, and C. F. Nickel, Baltimore, Md. Machine for making concrete blocks. No. 1,142,696; June 8; Gaz. vol. 215; p. 600.
- Graff, Henry W., Chicago, Ill. Car attachment. No. 1,144,189; June 22; Gaz. vol. 215; p. 1186.
- Graff, William D., *et al.* (See Theberath, Joseph C., assignor.)
- Graham, Walter S., Northampton, Mass. Pencil-holder and point-protector. No. 1,127,882; Feb. 9; Gaz. vol. 211; p. 469.
- Graffenberger, Friedrich, Milwaukee, Wis. Self-cleaning dust-separator. No. 1,136,953; Apr. 27; Gaz. vol. 213; p. 1136.
- Graffenberger, Friedrich, assignor to A. Geo. Schulz Co., Milwaukee, Wis. Safety device for presses. No. 1,138,374; May 4; Gaz. vol. 214; p. 230.
- Grafflin, John L. (See Chase and Grafflin.)
- Grafton, William B., Cleveland, Ohio, assignor to Hammel Riglander & Co., New York, N. Y. Index-guide for balance-wheels. No. 1,147,938; July 27; Gaz. vol. 216; p. 1104.
- Grah, Emil, Toledo, Ohio. Flash-light. No. 1,162,287; Nov. 30; Gaz. vol. 220; p. 1542.
- Grah, Emil, Toledo, Ohio. Lantern. No. 1,162,288; Nov. 30; Gaz. vol. 220; p. 1542.
- Graham, Abaslam, Madison, Me. Bit. No. 1,124,888; Jan. 12; Gaz. vol. 210; p. 638.
- Graham, Albert C., Oilfields, Cal. Well-pipe perforator. No. 1,125,513; Jan. 19; Gaz. vol. 210; p. 894.
- Graham, Albert C., Bartlesville, Okla. Well-casing perforator. No. 1,162,601; Nov. 30; Gaz. vol. 220; p. 1647.
- Graham, Caroline, West Chester, Pa. Marker. No. 1,150,860; Aug. 24; Gaz. vol. 217; p. 1066.
- Graham, Charles A., *et al.* (See Clark, George C., assignor.)
- Graham, Charles W., Huntington, assignor to American Can Company, New York, N. Y. Automatic feed for sheet-metal can-heads. No. 1,126,194; Jan. 26; Gaz. vol. 210; p. 1173.
- Graham, Charles W., Huntington, assignor to American Can Company, New York, N. Y. Can-end and gasket assembling machine. No. 1,154,245; Sept. 21; Gaz. vol. 218; p. 734.
- Graham, Charles W., Huntington, assignor to American Can Company, New York, N. Y. Device for feeding individual pieces. No. 1,158,045; Oct. 26; Gaz. vol. 219; p. 1069.
- Graham, Charles W., assignor to American Can Company, New York, N. Y. Machine for spraying or coating articles. No. 1,148,163; July 27; Gaz. vol. 216; p. 1185.
- Graham, Charles W., assignor to American Can Company, New York, N. Y. Soldering-machine. No. 1,152,400; Sept. 7; Gaz. vol. 218; p. 10.
- Graham, Charles W., assignor to American Can Company, New York, N. Y. Solder-fusing machine. No. 1,152,410; Sept. 7; Gaz. vol. 218; p. 10.
- Graham, Charles W., assignor to American Can Company, New York, N. Y. Machine for fusing can-seams. No. 1,152,411; Sept. 7; Gaz. vol. 218; p. 10.
- Graham, Charles W., assignor to American Can Company, New York, N. Y. Inclosing food products. No. 1,158,044; Oct. 26; Gaz. vol. 219; p. 1068.
- Graham, Charles W., Rome, N. Y., assignor to American Can Company. Automatic stop-motion for can-body-forming machines. No. 1,154,244; Sept. 21; Gaz. vol. 218; p. 733.
- Graham, Clayton W., Des Moines, Iowa. Combined letter-sheet and envelop. No. 1,135,518; Apr. 13; Gaz. vol. 213; p. 551.
- Graham, David F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Ball-bearing. No. 1,135,177; Apr. 13; Gaz. vol. 213; p. 433.
- Graham, David T., St. Louis, Mo. Forming pointed blanks for belt-hooks from a metallic strand. No. 1,138,211; May 4; Gaz. vol. 214; p. 171.
- Graham, Elias, Hazel Dell, assignor of one-half to H. E. Warfel, Greenup, Ill. Sanitary drinking-fountain. No. 1,124,889; Jan. 12; Gaz. vol. 210; p. 638.
- Graham, Elias, J. Gore, and J. G. Sample, Hazel Dell, Ill. Fastener for shipping-trays or box-cover fastener. No. 1,144,900; June 29; Gaz. vol. 215; p. 1459.
- Graham, Emily B., Miamisburg, Ohio. Tape-needle. No. 1,151,873; Aug. 31; Gaz. vol. 217; p. 1458.
- Graham, Frank A., Centerville, Wash. Snap-hook for breast and martingale straps. No. 1,130,396; Mar. 2; Gaz. vol. 212; p. 193.
- Graham, Frank A., Buffalo, N. Y. Box-making machine. No. 1,136,795; Apr. 20; Gaz. vol. 213; p. 1043.
- Graham, Frank B., Kansas City, Mo. Impregnator. No. 1,155,804; Oct. 5; Gaz. vol. 219; p. 168.
- Graham, George, Detroit, Mich. Ball check-valve. No. 1,158,483; Nov. 2; Gaz. vol. 220; p. 25.
- Graham, George H., Upper Montclair, N. J., assignor to Universal Stamping Machine Company, New York, N. Y. Mail-marking machine. No. 1,128,774; Feb. 16; Gaz. vol. 211; p. 825.
- Graham, George J., Philadelphia, Pa. Grease-cup. No. 1,160,593; Nov. 16; Gaz. vol. 220; p. 853.
- Graham, Irving M., Candia, N. H. Poultry-feeding device. No. 1,128,971; Feb. 16; Gaz. vol. 211; p. 898.
- Graham, James H. (See Chase and Graham.)
- Graham, Jesse L., Princeton, Iowa. Cultivator. No. 1,132,842; Mar. 23; Gaz. vol. 212; p. 1180.
- Graham, John, Glasgow, Scotland. Pressure-reducing valve. No. 1,166,357; Dec. 28; Gaz. vol. 221; p. 1395.
- Graham, John W., Hinton, W. Va. Typographical machine. No. 1,148,086; July 27; Gaz. vol. 216; p. 1158.
- Graham, Joseph M., *et al.* (See Miller, Harry, assignor.)
- Graham, Lee, assignor of one-third to W. A. House, Sandford, Ind. Shot-shooting device for use in blasting. No. 1,155,230; Sept. 28; Gaz. vol. 218; p. 1099.
- Graham, Oscar L., *et al.* (See Kliber, William C., assignor.)
- Graham, Robert S., New York, N. Y. Filling device. No. 1,158,129; Oct. 26; Gaz. vol. 219; p. 1099.
- Graham, Thomas F., Tampa, Fla. Clothes-display rack. No. 1,131,056; Mar. 9; Gaz. vol. 212; p. 456.
- Graham, Walter E., Philadelphia, Pa. Lawn-mower. No. 1,135,683; Apr. 13; Gaz. vol. 213; p. 610.
- Graham, Walter E., Philadelphia, Pa. Roller-bearing. No. 1,160,594; Nov. 16; Gaz. vol. 220; p. 853.
- Graham, William E., Grant Junction, Colo. Combined wheel-guard and sleigh-runner. No. 1,156,284; Oct. 12; Gaz. vol. 219; p. 356.
- Graham, William J., Brooklyn, N. Y. Container for receptacles. No. 1,159,491; Nov. 9; Gaz. vol. 220; p. 410.
- Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Disk barrow. No. 1,125,514; Jan. 19; Gaz. vol. 210; p. 894.
- Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Rotary hoe. No. 1,128,869; Feb. 16; Gaz. vol. 211; p. 859.
- Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Beet-puller. No. 1,149,644; Aug. 10; Gaz. vol. 217; p. 519.
- Graham, William S., assignor to Parlin & Orendorff, Canton, Ill. Gang-plow. No. 1,163,143; Dec. 7; Gaz. vol. 221; p. 142.
- Graham, William S., assignor to Federal-Huber Company, Chicago, Ill. Lavatory apparatus. No. 1,144,704; June 29; Gaz. vol. 215; p. 1391.
- Grahl, Max C., assignor to Universelle Cigaretten-Maschinen-Industrie System Otto Benzstrasser Aktiengesellschaft, Dresden-Löbtau, Germany. Gearing for cigarette-filling machines. No. 1,162,478; Nov. 30; Gaz. vol. 220; p. 1607.
- Gralapp, Walter, Wittenberg, Wis. Portable electric automatic sawing-machine. No. 1,144,705; June 29; Gaz. vol. 215; p. 1392.
- Gralert, Karl P. (See Flachslaender, Gralert, and Buff.)
- Grillert, Karl P., M. Buff, and J. Flachslaender, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown sulfur dye. No. 1,126,630; Jan. 26; Gaz. vol. 210; p. 1330.
- Graham, Augustus F., Chicago, Ill. Drier. No. 1,165,774; Dec. 28; Gaz. vol. 221; p. 1188.
- Gramling, Oscar C., Madison, Fla. Fruit-picker conveyor. No. 1,133,436; Mar. 30; Gaz. vol. 212; p. 1428.
- Gramm, John A., Dallas, Tex. Automatic train-stop. No. 1,136,122; Apr. 20; Gaz. vol. 213; p. 803.
- Granadena Mining Company. (See Truax, Sewall, assignor.)

Alphabetical list of patentees—Continued.

- Grand Detour Plow Company. (See Caughey, Robert C., assignor.)
- Grand, Edward, Jr., Ottawa, Ontario, Canada. Flexible cover for drafting-tables, desks, and the like. No. 1,143,901; June 22; Gaz. vol. 215; p. 1084.
- Grand Rapids Refrigerator Company. (See Whittier, Walter H., assignor.)
- Grand Rapids Show Case Company. (See Freeman, William F., assignor.)
- Grand Rapids Show Case Company. (See Vanderveld, Anthony, assignor.)
- Grand Rapids Stove Company. (See Rowlette, Charles G., assignor.)
- Grand Rapids Textile Machinery Company. (See Clements, Elbert A., assignor.)
- Grand Rapids Veneer Works. (See Linn, Allen D., assignor.)
- Grande, Odin P., Pensacola, Fla. Dish-drainer. No. 1,165,665; Dec. 28; Gaz. vol. 221; p. 1150.
- Grandfield, W. C. (See Powers, Clarence E., assignor.)
- Grandinetti, Joseph. Patchogue, N. Y. Autosled. No. 1,151,176; Aug. 24; Gaz. vol. 217; p. 1173.
- Grandini, Giovanni, Chicago, Ill. Flying-machine. No. 1,139,860; May 18; Gaz. vol. 214; p. 826.
- Grandjean, Frederick, Alexander, Ill. Fence-post. No. 1,142,321; June 8; Gaz. vol. 215; p. 470.
- Grandjean, Frederick, Alexander, Ill. Fence-post. No. 1,160,068; Nov. 9; Gaz. vol. 220; p. 614.
- Grandire, Pierre J., Darnetal, France. Apparatus for bleaching and dyeing textiles. No. 1,148,377; July 27; Gaz. vol. 216; p. 1262.
- Grandstaff, Albert L., Steubenville, Ohio. Hydraulic valve. No. 1,158,204; Oct. 26; Gaz. vol. 219; p. 1125.
- Grandy, Levett T., assignor to C. M. Hall Lamp Company, Detroit, Mich. Focus adjustment for lamps. No. 1,159,492; Nov. 9; Gaz. vol. 220; p. 410.
- Granger, Armand J., Salix, Iowa. Spring-wheel. No. 1,126,447; Jan. 26; Gaz. vol. 210; p. 1262.
- Granger, Armand J., Salix, Iowa. Resilient wheel. No. 1,133,130; Mar. 23; Gaz. vol. 212; p. 1284.
- Granger, Edward V. (See Taft, Hiram E., assignor.) (Reissue.)
- Granger, Frank B., assignor to Hall-Borchert Dress Form Co., New York, N. Y. Adjustable dress-form. No. 1,153,218; Sept. 14; Gaz. vol. 218; p. 339.
- Granger, Frank B., assignor to Hall-Borchert Dress Form Co., New York, N. Y. Sectional dress-form. No. 1,153,219; Sept. 14; Gaz. vol. 218; p. 339.
- Granger, Horace B., St. Louis, Mich. Rake. No. 1,132,334; Mar. 16; Gaz. vol. 212; p. 945.
- Granger, John A., assignor of one-half to Macomber & Whyte Rope Company, Chicago, Ill. Portable scaffold. No. 1,136,898; Apr. 20; Gaz. vol. 213; p. 1079.
- Grant, Alexander C. (See Marsh, Franklin, assignor.)
- Grant, Arthur M., Lansford, N. D. Package and mail tying device. No. 1,124,130; Jan. 5; Gaz. vol. 210; p. 817.
- Grant Automatic Machine Company. (See Veith, Alfred C., assignor.)
- Grant, Charles D., London, England. Machine for making ice. No. 1,143,185; June 16; Gaz. vol. 215; p. 813.
- Grant, David, assignor to The Lyman Gun Sight Corporation, Middlefield, Conn. Sight for firearms. No. 1,131,057; Mar. 9; Gaz. vol. 212; p. 456.
- Grant, Emory A., Cleveland, Ohio. Apparatus for killing insects. No. 1,142,810; June 15; Gaz. vol. 215; p. 680.
- Grant, Frederick W., Ridgewood, N. J. Brake-shoe. No. 1,134,609; Apr. 6; Gaz. vol. 213; p. 191.
- Grant, George W., Bangor, Me. Nail-puller. No. 1,132,178; Mar. 16; Gaz. vol. 212; p. 887.
- Grant, James H., East Dulwich, London, England. Indicator for use with calipers, scribing-blocks, and the like. No. 1,129,289; Feb. 23; Gaz. vol. 211; p. 1043.
- Grant, John J., Pontiac, Mich. Nut-machine. No. 1,127,754; Feb. 9; Gaz. vol. 211; p. 421.
- Grant, Lee E. (See Norton, James A., assignor.)
- Grant, Patrick M., assignor of one-half to C. Kuhnle, Chicago, Ill. Fluid-pressure regulator. No. 1,166,358; Dec. 28; Gaz. vol. 221; p. 1396.
- Grant Pulley & Hardware Co. (See McQueen, Ulysses G., assignor.)
- Grant, Richard F. (See Wetherbee, Herbert E., assignor.)
- Grant, William. (See Bundy, Cyrus L., assignor.)
- Grant, William. (See Bundy and Grant.)
- Grant, Willis C., Ashtabula, Ohio. Changeable sign. No. 1,163,750; Dec. 14; Gaz. vol. 221; p. 402.
- Grantland, John W., Cincinnati, Ohio. Lubricator. No. 1,152,020; Aug. 31; Gaz. vol. 217; p. 1508.
- Granulator Soap Company. (See Evans, Henry R., assignor.)
- Granville, Bernard, New York, N. Y. Mechanical movement. No. 1,141,626; June 1; Gaz. vol. 215; p. 191.
- Granz, Josef, Plauen, Germany. Expandible pulley. No. 1,126,195; Jan. 26; Gaz. vol. 210; p. 1173.
- Granz, Joseph, Chicago, Ill. Coin-controlled clock and savings-bank. No. 1,149,130; Aug. 3; Gaz. vol. 217; p. 226.
- Granzow, Louis H., assignor to George P. Bent Company, Chicago, Ill. Cleaning attachment for player-pianos. No. 1,127,617; Feb. 9; Gaz. vol. 211; p. 372.
- Graper, John E., Fort Atkinson, Wis. Elevator for corn huskers and shredders. No. 1,146,866; July 20; Gaz. vol. 216; p. 701.
- Graphic Arts Company. (See Levy, Louis E., assignor.)
- Graphic Arts Company. (See Levy, Louis E. and H. S., assignors.)
- Graphite Lubricating Company, The. (See Bache, Leigh S., assignor.)
- Graphite Lubricating Company, The. (See Smalley, George O., assignor.)
- Grapin, Alfred and L., Neuilly-sur-Seine, France. Carbureter. No. 1,148,378; July 27; Gaz. vol. 216; p. 1262.
- Grapin, Lucien. (See Grapin, Alfred and L.)
- Grand, Henri J. B., Solre-le-Chateau, France. Machine for measuring the surface of skins and other materials. No. 1,166,359; Dec. 28; Gaz. vol. 221; p. 1396.
- Grasme, Frederick C., Hoboken, N. J. Electrical type-telegraph. No. 1,128,600; Feb. 16; Gaz. vol. 211; p. 766.
- Grask, Thaddeus, Wichita, Kans. Extensible molding-disk. No. 1,153,063; Sept. 7; Gaz. vol. 218; p. 247.
- Grass, Jacob, Fulham, London, England. Lithographic plate for offset and direct printing. No. 1,155,352; Oct. 5; Gaz. vol. 219; p. 10.
- Grasselli Chemical Company, The. (See Drefahl, Louis C., assignor.)
- Gratigny, B. W. (See Terry and Money, assignors.)
- Gratrick, William J., and J. F. Ferguson, Minneapolis, Minn. Vertically-adjustable brake-staff for cars. No. 1,145,191; July 6; Gaz. vol. 216; p. 76.
- Grattan, Joseph G. (See Scott and Grattan.)
- Grauer, Joseph, New York, N. Y. Pipe-cutter. No. 1,158,800; Nov. 2; Gaz. vol. 220; p. 137.
- Grauheding, Oskar, Dusseldorf, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Telescope gun-sight. No. 1,127,230; Feb. 2; Gaz. vol. 211; p. 200.
- Grauheding, Oskar, Dusseldorf, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Telescopic sight provided with variable sighting-points. No. 1,135,787; Apr. 13; Gaz. vol. 213; p. 645.
- Graul, Carl L. O., Chicago, Ill., assignor to Semet-Solvay Company, Solvay, N. Y. Process of and apparatus for determining benzol in gas. No. 1,163,654; Dec. 14; Gaz. vol. 221; p. 366.
- Graul, Feodor, Leipzig-Schleussich, Germany. Machine for pasting pieces of goods on sample-cards. No. 1,126,003; Jan. 26; Gaz. vol. 210; p. 1101.
- Graumüller, Hermann, Berlin, Germany. Brake for use on hoisting devices. No. 1,154,508; Sept. 21; Gaz. vol. 218; p. 824.
- Graveley, Harry V. N., London, England. Side splash mud-guard. No. 1,131,644; Mar. 9; Gaz. vol. 212; p. 661.
- Gravell, James H., assignor to Hale and Kilburn Company, Philadelphia, Pa. Making sheet-metal doors, partitions, and the like. No. 1,156,898; Oct. 19; Gaz. vol. 219; p. 603.
- Graves, Burch, Thorntown, Ind. Wireless telegraphy. No. 1,138,652; May 11; Gaz. vol. 214; p. 363.
- Graves, Clark, assignor to Sandwich Manufacturing Co., Sandwich, Ill. Corn-sheller. No. 1,143,186; June 15; Gaz. vol. 215; p. 813.
- Graves, Frank J., Springfield, Mass. Sanitary water-closet seat. No. 1,140,814; May 25; Gaz. vol. 214; p. 1194.
- Graves, Frank J., Springfield, Mass. Combination seat and paper pad. No. 1,159,928; Nov. 9; Gaz. vol. 220; p. 567.
- Graves, George W., Washingtonville, N. Y. Oven. No. 1,126,753; Feb. 2; Gaz. vol. 211; p. 31.
- Graves, George W., Washingtonville, N. Y. Gas-burner. No. 1,134,122; Apr. 6; Gaz. vol. 213; p. 13.
- Graves, Henry D. (See Peterson and Graves.)
- Graves, Henry D., Grant Park, Ill. Mail-box. No. 1,155,146; Sept. 28; Gaz. vol. 218; p. 1073.
- Graves, John, et al. (See Nelson, August T., assignor.)
- Graves, Joseph C., assignor of one-half to H. A. Moncrief, Kosse, Tex. Cultivator-foot. No. 1,132,335; Mar. 16; Gaz. vol. 212; p. 945.
- Graves, Lester S., Evanston, Ill. Self-fusing solder. No. 1,151,679; Aug. 31; Gaz. vol. 217; p. 1389.
- Graves, Luie A. (See Graves, Frambach, and Graves.)
- Graves, Oriel M., Spokane, Wash., assignor to Western Cereal Company. Wheat-huller. No. 1,127,430; Feb. 9; Gaz. vol. 211; p. 308.
- Graves, Oriel M., Odessa, Wash., assignor to Western Cereal Company. Cereal former and toaster. No. 1,138,747; May 11; Gaz. vol. 214; p. 398.
- Graves, Oscar E., Yuba, Wis. Tire attachment. No. 1,145,305; July 6; Gaz. vol. 216; p. 114.
- Graves, Peter S., and J. I. Olivetti, Plattsburg, N. Y. Drinking-glass holder for sterilizers. No. 1,161,657; Nov. 23; Gaz. vol. 220; p. 1275.
- Graves, Robert W., Elizabeth, N. J. Crosscut-saw. No. 1,127,883; Feb. 9; Gaz. vol. 211; p. 469.
- Graves, Spencer C., St. Louis, Mo. Coating for wood, metal, or other surfaces. No. 1,124,012; Jan. 5; Gaz. vol. 210; p. 276.

Alphabetical list of patentees—Continued.

- Graves, William A., North Birmingham, Ala. Cotton-stalk puller. No. 1,146,762; July 13; Gaz. vol. 216; p. 645.
- Graves, William P., M. J. Frambach, and L. A. Graves, Melvin, Iowa. Vulcanizer. No. 1,146,424; July 13; Gaz. vol. 216; p. 527.
- Gray, Adelbert W., assignor to D. E. Bown, Pittsburgh, Pa. Push-button switch. No. 1,126,985; Feb. 2; Gaz. vol. 211; p. 113.
- Gray, Alfred, New York, N. Y. Traveling-bag. No. 1,134,843; Apr. 6; Gaz. vol. 213; p. 274.
- Gray, Ben H., Mobile, Ala. Wheel-flange lubricator. No. 1,136,003; Apr. 20; Gaz. vol. 213; p. 764.
- Gray, Carlisle B., Gloversville, N. Y. Detachable tire-tread. No. 1,149,749; Aug. 10; Gaz. vol. 217; p. 555.
- Gray, Charles B., Knoxville, Tenn. Machine for cutting sheet metal. No. 1,155,479; Oct. 5; Gaz. vol. 219; p. 55.
- Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Loper-actuating mechanism for chain-stitch sewing-machines. No. 1,127,755; Feb. 9; Gaz. vol. 211; p. 422.
- Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,156,839; Oct. 12; Gaz. vol. 219; p. 552.
- Gray, Chester E., Eureka, Cal. Manufacturing churned products from milk and cream. No. 1,155,055; Sept. 28; Gaz. vol. 218; p. 1039.
- Gray, Chester E., Eureka, Cal. Method of and apparatus for desiccating liquid substances. No. 1,157,935; Oct. 26; Gaz. vol. 219; p. 1030.
- Gray, Christian H., London, England. Driving-belt. No. 1,129,666; Feb. 23; Gaz. vol. 211; p. 1174.
- Gray, David E. (See Gray, Edward E. and D. E.)
- Gray & Davis. (See Wadsworth, George R., assignor.)
- Gray, Edward E., Plano, Ill. Generating power and apparatus therefor. No. 1,147,085; July 20; Gaz. vol. 216; p. 778.
- Gray, Edward E., Plano, Ill., assignor to Gray Pneumatic Gear Shift Company. Fender-lamp receptacle. No. 1,165,090; Dec. 21; Gaz. vol. 221; p. 909.
- Gray, Edward E. and D. E., Hinsdale, assignors, by mesne assignments, to American Seedtape Company, Chicago, Ill. Machine for forming seed-tape. No. 1,160,278; Nov. 16; Gaz. vol. 220; p. 742.
- Gray, Edward E., Plano, and D. E. Gray, Highland Park, assignors, by mesne assignments, to American Seedtape Company, Chicago, Ill. Seed-package. No. 1,160,279; Nov. 16; Gaz. vol. 220; p. 742.
- Gray, Edwin. (See Aldrich, Chester S., assignor.)
- Gray Engine Starter Company. (See Gray, Thomas J., assignor.)
- Gray, Frank, Fort Worth, Tex. Building-block construction. No. 1,147,015; July 20; Gaz. vol. 216; p. 754.
- Gray, Gardner B., assignor, by mesne assignments, to Automatic Train Control & Signal Company, Pittsburgh, Pa. Mechanism for train-control systems. No. 1,135,374; Apr. 13; Gaz. vol. 213; p. 500.
- Gray, Gardner B., assignor, by mesne assignments, to Automatic Train Control & Signal Company, Pittsburgh, Pa. Track-relay for signal systems. No. 1,138,748; May 11; Gaz. vol. 214; p. 398.
- Gray, Gardner B., assignor, by mesne assignments, to Automatic Train Control & Signal Company, Pittsburgh, Pa. Polarized relay. No. 1,140,739; May 25; Gaz. vol. 214; p. 1167.
- Gray, Gary N., et al. (See Pero, John T., assignor.)
- Gray, George E., Des Moines, Iowa. Pumping means for massage devices. No. 1,155,147; Sept. 28; Gaz. vol. 218; p. 1073.
- Gray, George F., Schenectady, N. Y., assignor to General Electric Company. Vacuum-indicator. No. 1,154,306; Sept. 21; Gaz. vol. 218; p. 755.
- Gray, Granville H., Los Angeles, Cal. Road-sanding apparatus. No. 1,165,331; Dec. 21; Gaz. vol. 221; p. 992.
- Gray, Harry P., Oakland, assignor to United Engineering Works, San Francisco, Cal. Air-suction valve. No. 1,158,679; Nov. 2; Gaz. vol. 220; p. 95.
- Gray, Henry B., Burlingame, Cal. Sanitary toilet-seat. No. 1,144,654; June 29; Gaz. vol. 215; p. 1373.
- Gray, Hiram R., et al. (See Ball and Floyd, assignors.)
- Gray, James A., San Francisco, Cal. Machine for uniling can bodies and heads. (Reissue.) No. 1,138,74; Feb. 2; Gaz. vol. 211; p. 250.
- Gray, James A., New York, N. Y. Train-stopping apparatus. No. 1,142,697; June 8; Gaz. vol. 215; p. 601.
- Gray, James A., assignor to American Can Company, San Francisco, Cal. Mechanism for compressing can-bodies. No. 1,140,676; May 25; Gaz. vol. 214; p. 1147.
- Gray, James A., assignor to American Can Company, San Francisco, Cal. Can-body re-former. No. 1,152,312; Aug. 31; Gaz. vol. 217; p. 1608.
- Gray, James A., assignor to American Can Company, San Francisco, Cal. Apparatus for cutting and applying ring-liners. No. 1,162,155; Nov. 30; Gaz. vol. 220; p. 1496.
- Gray, James A., assignor to American Can Company, San Francisco, Cal. Automatic can-end-feed mechanism. No. 1,162,156; Nov. 30; Gaz. vol. 220; p. 1496.
- Gray, James A., assignor to American Can Company, San Francisco, Cal. Can-end-feed mechanism. No. 1,162,157; Nov. 30; Gaz. vol. 220; p. 1497.
- Gray, James A., assignor to American Can Company, San Francisco, Cal. Apparatus for cutting and applying to can ends ring-liners. No. 1,162,234; Nov. 30; Gaz. vol. 220; p. 1523.
- Gray, James E. (See Heath and Gray.)
- Gray, James M., Atlanta, Ga. Fastener for car-doors. No. 1,145,987; July 13; Gaz. vol. 216; p. 374.
- Gray, Lou, New York, N. Y. Display-rack for electric wires. No. 1,130,591; Mar. 2; Gaz. vol. 212; p. 263.
- Gray, Mathew D., Bakersfield, Cal. Ball-bearing caster for furniture. No. 1,139,271; May 11; Gaz. vol. 214; p. 582.
- Gray Motor Company. (See Blakely, Edward B., assignor.)
- Gray National Telautograph Company. (See O'Neill, Henry W., assignor.)
- Gray National Telautograph Company. (See Tiffany, George S., assignor.)
- Gray, Palmer, Jeffersonville, Ind. Casting-gun. No. 1,124,726; Jan. 12; Gaz. vol. 210; p. 579.
- Gray Pneumatic Gear Shift Company. (See Gray, Edward E., assignor.)
- Gray, Ralph B., et al. (See Ritter, Rudolph, assignor.)
- Gray, Robert D., Ridgewood, N. J. Reflector. No. 1,133,955; Mar. 30; Gaz. vol. 212; p. 1611.
- Gray, Ross H., and A. F. Stahlhut, Fort Wayne, Ind. Water purifying or softening system. No. 1,159,929; Nov. 9; Gaz. vol. 220; p. 568.
- Gray Telephone Pay Station Company, The. (See Long, George A., assignor.)
- Gray, Thomas, Buffalo, N. Y. Charging-truck. No. 1,164,640; Dec. 21; Gaz. vol. 221; p. 752.
- Gray, Thomas J., assignor to Gray Engine Starter Company, Indianapolis, Ind. Reduction-gearing for engine-starters. No. 1,125,091; Jan. 19; Gaz. vol. 210; p. 744.
- Gray, Thomas T., Elizabeth, N. J. Treating hydrocarbon-oils. No. 1,158,205; Oct. 26; Gaz. vol. 219; p. 1125.
- Gray, Tom F., assignor to E. A. Bolton, Manchester, England. Steam-superheater. No. 1,129,667; Feb. 23; Gaz. vol. 211; p. 1175.
- Gray, Wallace M., Cincinnati, Ohio. Locomotive water-column. No. 1,148,674; Aug. 3; Gaz. vol. 217; p. 69.
- Gray, Wallace W., and F. P. Witzsche, Lott, Tex. Stalk and straw chopper. No. 1,156,992; Oct. 19; Gaz. vol. 219; p. 636.
- Gray, Walter, assignor of one-half to H. Session, Fort Huachuca, Ariz. Extensible step. No. 1,163,529; Dec. 7; Gaz. vol. 221; p. 277.
- Gray, William B., et al. (See Ritter, Rudolph, assignor.)
- Gray, William B., Chicago, Ill. Resilient wheel. No. 1,133,467; Mar. 30; Gaz. vol. 212; p. 1438.
- Gray, William B., Chicago, Ill. Resilient wheel. No. 1,133,468; Mar. 30; Gaz. vol. 212; p. 1439.
- Gray, William B., Chicago, Ill. Resilient wheel. No. 1,139,673; May 18; Gaz. vol. 214; p. 761.
- Gray, William B., assignor to M. J. Bannon, Louisville, Ky. Pipe-support. No. 1,133,855; Mar. 30; Gaz. vol. 212; p. 1580.
- Gray, William B., assignor to M. J. Bannon, Louisville, Ky. Sewer construction. No. 1,153,158; Sept. 7; Gaz. vol. 218; p. 279.
- Gray, William B., assignor to M. J. Bannon, Louisville, Ky. Reinforcement for pipe insulation. No. 1,153,159; Sept. 7; Gaz. vol. 218; p. 279.
- Gray, William B., assignor to M. J. Bannon, Louisville, Ky. Device for marking earthenware. No. 1,157,380; Oct. 19; Gaz. vol. 219; p. 775.
- Gray, William B., assignor to M. J. Bannon, Louisville, Ky. Insulating pipe-conduit. No. 1,159,930; Nov. 9; Gaz. vol. 220; p. 568.
- Gray, William B., assignor to M. J. Bannon, Louisville, Ky. Sewer construction. No. 1,161,658; Nov. 23; Gaz. vol. 220; p. 1275.
- Gray, William E., Boise, Idaho. Line-marking mechanism for copy-holders. No. 1,144,190; June 22; Gaz. vol. 215; p. 1186.
- Gray, William E., Brooklyn, N. Y. Washtub. No. 1,144,191; June 22; Gaz. vol. 215; p. 1187.
- Graybill, Jerome V., Norristown, Pa. Target. No. 1,125,306; Jan. 19; Gaz. vol. 210; p. 821.
- Graybill, Joseph F., York, Pa. Safety device for railways. No. 1,133,131; Mar. 23; Gaz. vol. 212; p. 1284.
- Grayek, Martin, et al. (See Plontkowski, John, assignor.)
- Grayson, Luther W., assignor of one-half to C. G. Runyon, Youngstown, Ohio. Turbine. No. 1,132,336; Mar. 16; Gaz. vol. 212; p. 946.
- Grdic, Franjo, et al. (See Grozej, Ivan, assignor.)
- Grean, Alexandre M., New York, N. Y. Collar-supporter. No. 1,159,931; Nov. 9; Gaz. vol. 220; p. 568.
- Grearson, Frederick A. (See Watt and Grearson.)
- Greason, Herbert, Ridgewood, N. J. Cover for washtubs. No. 1,131,367; Mar. 9; Gaz. vol. 212; p. 563.
- Greaves-Klusman Tool Company, The. (See Greaves, William A., assignor.)
- Greaves, William A., assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio. Gearing. No. 1,162,857; Dec. 7; Gaz. vol. 221; p. 43.
- Greayer, Philip J., assignor to B. Z. Toy Mfg. Co., Inc., New York, N. Y. Motor for toys. No. 1,138,556; May 4; Gaz. vol. 214; p. 291.
- Greb, John W., Lutherville, Md. Wrench. No. 1,133,132; Mar. 23; Gaz. vol. 212; p. 1285.

- Greeley, Charles U., Bangor, Me., assignor of one-third to C. H. Hulburd, Chicago, Ill. Aeroplane. No. 1,133,559; Mar. 30; Gaz. vol. 212; p. 1472.
- Greeley, James T., Nashua, N. H. Clinical-thermometer casing. No. 1,152,503; Sept. 7; Gaz. vol. 218; p. 44.
- Greeley, William H., Newton, Mass. Manuscript writing-paper. No. 1,151,782; Aug. 31; Gaz. vol. 217; p. 1425.
- Greely, Charles A., Oakland, Cal. Illuminating door-knob. No. 1,128,307; Feb. 16; Gaz. vol. 211; p. 667.
- Green, Abbott M. (See Hawkins, Green, and Gibbins.)
- Green, Allen A., assignor of one-half to H. M. Holland, Galesburg, Ill. Ball inflator and sealer. No. 1,138,749; May 11; Gaz. vol. 214; p. 398.
- Green, Allen A., assignor of one-half to H. M. Holland, Galesburg, Ill. Inflating and sealing hollow spherical objects. No. 1,159,932; Nov. 9; Gaz. vol. 220; p. 569.
- Green, Alonzo L., assignor to Hamel Shoe Machinery Company, Lynn, Mass. Rotary heel-seat cutter. No. 1,145,062; July 6; Gaz. vol. 216; p. 32.
- Green, Arthur B., Portland, Me., assignor to S. D. Warren & Company, Boston, Mass. Apparatus for measuring or determining the viscosity of paper-stuff in the beating-machine. No. 1,125,017; Jan. 12; Gaz. vol. 210; p. 682.
- Green, Arthur J., Orenco, Oreg. Washer. No. 1,124,890; Jan. 12; Gaz. vol. 210; p. 638.
- Green Bros. (See Green, Lewis E., assignor.)
- Green, Byron M. (See Arnold, Harry W., assignor.)
- Green, Charles, New York, N. Y. Sample-card. No. 1,132,337; Mar. 16; Gaz. vol. 212; p. 946.
- Green, Charles, Jr., Kings Cross, London, England. Machine for facilitating the trimming of wall-paper. No. 1,128,775; Feb. 16; Gaz. vol. 211; p. 825.
- Green, Charles, Jr., Kings Cross, London, England. Machine for facilitating the trimming of wall-paper. No. 1,143,187; June 15; Gaz. vol. 215; p. 814.
- Green, Charles A. (See Pease and Green.)
- Green, Charles E., London, England. Candle-lamp. No. 1,163,530; Dec. 7; Gaz. vol. 221; p. 278.
- Green, Charles E., assignor of one-half to C. T. Bloomer, Newark, N. Y. Corner construction for boxes. No. 1,158,802; Nov. 2; Gaz. vol. 220; p. 138.
- Green, Charles E., and C. T. Bloomer, Newark, N. Y. Corner construction for boxes. No. 1,158,801; Nov. 2; Gaz. vol. 220; p. 138.
- Green, Charles F., Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Stenciling material. No. 1,127,986; Feb. 9; Gaz. vol. 211; p. 504.
- Green, Charles F., Hornchurch, England, assignor, by mesne assignments, to A. B. Dick Company, Chicago, Ill. Inking device for rotary duplicators. No. 1,137,400; Apr. 27; Gaz. vol. 213; p. 1300.
- Green, Charles F., Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Duplicating-machine. No. 1,139,117; May 11; Gaz. vol. 214; p. 530.
- Green, Charles M., Marblehead, assignor to The Walter M. Lowney Company, Boston, Mass. Dipping-machine. No. 1,128,308; Feb. 16; Gaz. vol. 211; p. 667.
- Green, Clifford H., assignor to National Plano Manufacturing Company, Grand Rapids, Mich. Multiple-coin chute. No. 1,152,806; Sept. 7; Gaz. vol. 218; p. 156.
- Green, Clifford H., assignor to National Plano Manufacturing Company, Grand Rapids, Mich. Coin-detector. No. 1,154,919; Sept. 28; Gaz. vol. 218; p. 993.
- Green, Dallas F., Fort Wayne, Ind. Lens-mounting. No. 1,130,397; Mar. 2; Gaz. vol. 212; p. 194.
- Green, Daniel, New York, N. Y. Suitcase-handle. No. 1,156,993; Oct. 19; Gaz. vol. 219; p. 637.
- Green, Edward A., Chicago, Ill. Nut and retainer. No. 1,166,203; Dec. 28; Gaz. vol. 221; p. 1340.
- Green Engineering Company. (See Dewey, Jesse S., assignor.)
- Green, Fred J., *et al.* (See Kendall, William S., assignor.)
- Green, Fred W. (See Dilley, Arzeno J., assignor.)
- Green, Furney F., Coalgate, Okla. Railway-tie. No. 1,143,188; June 15; Gaz. vol. 215; p. 814.
- Green, Furney F., Coalgate, Okla. Tire. No. 1,162,350; Nov. 30; Gaz. vol. 220; p. 1564.
- Green, George L., Newark, assignor to C. G. Henry, Newport, Ark. Tool-holder. No. 1,165,500; Dec. 28; Gaz. vol. 221; p. 1001.
- Green, Glenn G., Warren, Pa. Caster. No. 1,150,359; Aug. 17; Gaz. vol. 217; p. 834.
- Green, Harold V., Chicago, Ill., assignor to General Electric Company. Differential driving mechanism. No. 1,143,537; June 15; Gaz. vol. 215; p. 934.
- Green, Harry H. R., Forest Hill, England. Means for controlling electrically-operated mechanisms and the like. No. 1,130,161; Mar. 2; Gaz. vol. 212; p. 111.
- Green, Henry M. (See Pyne and Green.)
- Green, Herbert P., Kansas City, Mo. Reinforced concrete construction. No. 1,157,381; Oct. 19; Gaz. vol. 219; p. 775.
- Green, James C. (See Klink and Green.)
- Green, John, *et al.* (See Miner, Frank A., assignor.)
- Green, John D., Brownsburg, Ind. Cooling device for journal-boxes. No. 1,159,762; Nov. 9; Gaz. vol. 220; p. 507.
- Green, John F., and H. B. Mauck, Muncie, Ind. Fender. No. 1,137,606; Apr. 27; Gaz. vol. 213; p. 1369.
- Green, John R. (See Bryar, George, assignor.)
- Green, John R., *et al.* (See Clark, Has, assignor.)
- Green, Jonathan F., Carbondale, Ill. Currycomb. No. 1,125,840; Jan. 19; Gaz. vol. 210; p. 1010.
- Green, Jonathan S., Pittsburgh, Pa., assignor to Westinghouse Air Spring Company. Vehicle air-spring. No. 1,149,363; Aug. 10; Gaz. vol. 217; p. 416.
- Green, Jonathan S., Pittsburgh, Pa., assignor to The Westinghouse Air Spring Company. Vehicle air-spring. No. 1,164,182; Dec. 14; Gaz. vol. 221; p. 551.
- Green, Kate, executrix. (See Green, Ollie A.)
- Green, Lewis E., assignor to Green Bros., Connersville, Ind. Faucet for dispensing soda-water. No. 1,159,836; Nov. 9; Gaz. vol. 220; p. 534.
- Green, Martin A., Philadelphia, Pa. Steam-engine. No. 1,160,069; Nov. 9; Gaz. vol. 220; p. 614.
- Green, Martin J., and A. G. Olson, St. Joseph, Mo. Rail-clamp. No. 1,148,511; Aug. 3; Gaz. vol. 217; p. 10.
- Green, Martin V. B., Old Town, Fla. Fishing-pole hanger. No. 1,127,987; Feb. 9; Gaz. vol. 211; p. 505.
- Green, Michael J., assignor to Eclipse Gas Stove Company, Rockford, Ill. Broiler. No. 1,137,130; Apr. 27; Gaz. vol. 213; p. 1201.
- Green, Michael J., assignor to Eclipse Gas Stove Company, Rockford, Ill. Gas-range. No. 1,140,740; May 25; Gaz. vol. 214; p. 1168.
- Green, Michael J., assignor to Eclipse Gas Stove Company, Rockford, Ill. Portable gas cooking device. No. 1,149,257; Aug. 10; Gaz. vol. 217; p. 377.
- Green, Ollie A., deceased, New York, N. Y.; K. Green, executrix. Scaffold-hanger. No. 1,126,986; Feb. 2; Gaz. vol. 211; p. 113.
- Green, Ralph L., *et al.* (See Clapp, Clark E., assignor.)
- Green, Raphael S., Chicago, Ill. Sharpening-machine. No. 1,143,383; June 15; Gaz. vol. 215; p. 883.
- Green, Robert A., Quapaw, Okla. Animal-trap. No. 1,143,698; June 22; Gaz. vol. 215; p. 1015.
- Green, Shirley M., Waco, Tex. Sifter. No. 1,149,009; Aug. 10; Gaz. vol. 217; p. 613.
- Green, T. F., *et al.* (See Alard, Andrew J., assignor.)
- Green, Thomas W., Philadelphia, Pa. Multistage centrifugal blower. No. 1,136,330; Apr. 20; Gaz. vol. 213; p. 877.
- Green, Thomas W., Philadelphia, Pa. Compound turbine-engine. No. 1,163,336; Dec. 7; Gaz. vol. 221; p. 211.
- Green, Walter, Montreal, Quebec, Canada. Gangway. No. 1,144,836; June 29; Gaz. vol. 215; p. 1437.
- Green, Walter R., Chicago, Ill. Bicycle-stand. No. 1,127,431; Feb. 9; Gaz. vol. 211; p. 309.
- Green, Walter R., Chicago, Ill. Tire-holder. No. 1,127,432; Feb. 9; Gaz. vol. 211; p. 309.
- Green, Walter R., Chicago, Ill. Bicycle or motor-cycle support. No. 1,149,438; Aug. 10; Gaz. vol. 217; p. 443.
- Green, William F., Modesto, Cal. Water-gate. No. 1,138,285; May 4; Gaz. vol. 214; p. 197.
- Green, William L., *et al.* (See Clapp, Clark E., assignor.)
- Green, William W., Niles, Mich. Power-increasing apparatus for motor-driven vehicles. No. 1,146,154; July 13; Gaz. vol. 216; p. 433.
- Green, William W., Niles, Mich. Plow. No. 1,154,307; Sept. 21; Gaz. vol. 218; p. 755.
- Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,144,538; June 29; Gaz. vol. 215; p. 1334.
- Greenberg, Henry, assignor to Greenberg & Lave, New York, N. Y. Hat. No. 1,150,757; Aug. 17; Gaz. vol. 217; p. 971.
- Greenberg & Lave. (See Greenberg, Henry, assignor.)
- Greenberg, Louis, and G. Olson, assignors of one-third to W. M. McEwen, Chicago, Ill. Air-circulating device. No. 1,125,684; Jan. 19; Gaz. vol. 210; p. 956.
- Greenberg, Louis, and G. Olson, assignors of one-third to W. M. McEwen, Chicago, Ill. Air-circulating device. No. 1,125,685; Jan. 19; Gaz. vol. 210; p. 957.
- Greenberg, Nathan H., and J. F. Clutter, Omaha, Nebr. Assembler for rimless lenses. No. 1,142,956; June 15; Gaz. vol. 215; p. 732.
- Greene, Albert E., Chicago, Ill. Reducing ores. No. 1,129,862; Mar. 2; Gaz. vol. 212; p. 10.
- Greene, Andrew S., Indianapolis, Ind. Boiler stay-bolt. No. 1,161,659; Nov. 23; Gaz. vol. 220; p. 1275.
- Greene, Beatrice H., assignor to D. V. Ashley, Binghamton, N. Y. Motion-picture-film renovator. No. 1,156,994; Oct. 19; Gaz. vol. 219; p. 637.
- Greene, Channing B. (See Edwards and Greene.)
- Greene, Charles L., Custer, Mont. Line-holder. No. 1,163,531; Dec. 7; Gaz. vol. 221; p. 278.
- Greene, Chester W., assignor to Commonwealth Engineering Company, Inc., Lynn, Mass. Photographic-film-winding box. No. 1,127,756; Feb. 9; Gaz. vol. 211; p. 422.
- Greene, Claude, Chicago, Ill. Load-supporting rack. No. 1,142,088; June 8; Gaz. vol. 215; p. 390.
- Greene, Edgeworth. (See Van Wye, Garry P., assignor.)
- Greene, Edgeworth, Montclair, N. J. Inflatable retaining-casing for bottles. No. 1,164,712; Dec. 21; Gaz. vol. 221; p. 777.
- Greene, Eli R., Des Moines, Iowa. Draft-controlling mechanism for smoke-consuming furnaces. No. 1,157,097; Oct. 19; Gaz. vol. 219; p. 674.
- Greene, George D. (See Ellis and Greene.)
- Greene, George S., *et al.* (See Inrig, Gavan and L., assignors.)

Alphabetical list of patentees—Continued.

- Greene, Harry S., assignor to Woonsocket Napping Machinery Company, Woonsocket, R. I. Transmission device. No. 1,157,098; Oct. 19; Gaz. vol. 219; p. 674.
- Greene, Howard J., Providence, R. I. Priming paint composition. No. 1,150,516; Aug. 17; Gaz. vol. 217; p. 888.
- Greene, James. (See Asquith and Greene.)
- Greene, John C. (See Schermerhorn, Amos J., assignor.)
- Greene, John S., Rochester, N. Y., assignor to Commercial Camera Company, Providence, R. I. Web-guide for photographic cameras. No. 1,153,843; Sept. 14; Gaz. vol. 218; p. 562.
- Greene, John T., assignor to The National Electric Specialty Company, Toledo, Ohio. Lightning-arrester. No. 1,155,415; Oct. 5; Gaz. vol. 219; p. 32.
- Greene, John W., San Francisco, Cal., assignor to Amuse-U-Riding Device Co. Traveling hobby-horse. No. 1,137,604; Apr. 27; Gaz. vol. 213; p. 1368.
- Greene Mfg. Co. (See Palmer, George L. W., assignor.)
- Greene, Martin E., *et al.* (See Hume, Walter E., assignor.)
- Greene, Martin P., *et al.* (See Hume, Walter E., assignor.)
- Greene, Phillip S., assignor of one-half to A. F. Lampman, Wilkes-Barre, Pa. Amusement device. No. 1,130,813; Mar. 9; Gaz. vol. 212; p. 372.
- Greene, Richard T., New York, N. Y. Ventilator. No. 1,129,482; Feb. 23; Gaz. vol. 211; p. 1112.
- Greene, Samuel L., Brooklyn, N. Y. Hat-packing ring. No. 1,151,263; Aug. 24; Gaz. vol. 217; p. 1202.
- Greene, Tweed & Co. (See Skelly, Bernard H., assignor.)
- Greenfield, Edwin J., Wichita, Kans. Annular bone-saw. No. 1,123,730; Jan. 5; Gaz. vol. 210; p. 182.
- Greenfield, Edwin T., Kiamasha, N. Y. Machine for treating metal pipes or tubes. No. 1,124,727; Jan. 12; Gaz. vol. 210; p. 579.
- Greenfield, Edwin T., Kiamasha, N. Y. Treating tubes interiorly with liquid coating agents. No. 1,146,791; July 20; Gaz. vol. 216; p. 675.
- Greenfield, Hirsh, Chicago, Ill. Hanger for screen and storm sashes. No. 1,154,920; Sept. 28; Gaz. vol. 218; p. 993.
- Greenfield Tap & Die Corporation. (See Wells, Frank O., assignor.)
- Greenfield Tap & Die Corporation. (See Wells and Judge, assignors.)
- Greenhorne, Thomas R., Glasgow, Scotland. Removing scale from incrustated surfaces. No. 1,135,684; Apr. 13; Gaz. vol. 213; p. 611.
- Greenle, Albert F., Lancaster, Pa. Arch-support. No. 1,153,664; Sept. 7; Gaz. vol. 218; p. 248.
- Greenling, Granville F., New York, N. Y., assignor to W. S. Semple, Mahwah, N. J. Tablet-holder, &c. No. 1,160,161; Nov. 16; Gaz. vol. 220; p. 702.
- Greenleaf, Robert P., assignor to F. Billings, Cleveland, Ohio. Loading apparatus. No. 1,162,768; Dec. 7; Gaz. vol. 221; p. 12.
- Greenleaf, Rupert L., Brockton, Mass. Heel and rand trimmer. No. 1,153,780; Sept. 14; Gaz. vol. 218; p. 539.
- Greenleaf, V. A., *et al.* (See Duncan, Lester C., assignor.)
- Greenleaf, William H., assignor to The Hartford Clock Company, Hartford, Conn. Time-controlled mechanism. No. 1,164,602; Dec. 14; Gaz. vol. 221; p. 696.
- Greenlee Bros. & Co. (See Purdy and Mansfield, assignors.)
- Greenlee Bros. & Company. (See Purdy and Edwards, assignors.)
- Greenlee, James A., Chicago, Ill., and H. Wegwart, Burlington, Wis. Basket or receptacle. No. 1,153,906; Sept. 21; Gaz. vol. 218; p. 618.
- Greenlee, James R., Portland, Oreg. Horseshoe-calk. No. 1,155,231; Sept. 28; Gaz. vol. 218; p. 1099.
- Greenstreet, Charles J., Webster Groves, Mo. Fuel-feeding device for furnaces. No. 1,132,715; Mar. 23; Gaz. vol. 212; p. 1131.
- Greenstreet, Flora V. (See Greenstreet, Jason H., assignor.)
- Greenstreet Folding Box Machine Company, The. (See Brown, Hugh, assignor.)
- Greenstreet, Jason H., assignor to F. V. Greenstreet, Indianapolis, Ind. Box-blank machine. No. 1,145,834; July 6; Gaz. vol. 216; p. 301.
- Greenway, Robert R., San Bernardino, Cal. Engineer's tool-box. No. 1,147,086; July 20; Gaz. vol. 216; p. 779.
- Greenwood, Albert. (See Davis and Greenwood.)
- Greenwood, Charles H., Slatington, Pa. Supporting-bracket. No. 1,138,750; May 11; Gaz. vol. 214; p. 399.
- Greenwood, Charles H., Brockton, Mass. Sewing-machine. No. 1,145,678; July 6; Gaz. vol. 216; p. 245.
- Greenwood, Edgar and J. Bradford, England, assignors to H. J. Potter, Brookline, Mass., J. W. Coggeshall, Cranston, R. I., and L. M. Bowes, Newton Highlands, Mass. Dabbling mechanism used in wool-combing or the like. (Reissue.) No. 13,883; Feb. 23; Gaz. vol. 211; p. 1231.
- Greenwood, Joseph. (See Greenwood, Edgar and J.) (Reissue.)
- Greer, Andrew W., Sr., and J. A., Griffin, Ga.; said Andrew W. Greer, Sr., assignor to said J. A. Greer. Carding-machine. No. 1,146,065; July 13; Gaz. vol. 216; p. 402.
- Greer, Charles I., assignor of one-half to W. M. Dougal, Washington, D. C. Portable building. No. 1,143,047; June 15; Gaz. vol. 215; p. 763.
- Greer, Edward R., Minneapolis, Minn., assignor to Emerson-Brantingham Company, Rockford, Ill. Road-roller. No. 1,129,863; Mar. 2; Gaz. vol. 212; p. 11.
- Greer, Edward R., Minneapolis, Minn., assignor to Emerson-Brantingham Company, Rockford, Ill. Engine-manifold. No. 1,150,264; Aug. 17; Gaz. vol. 217; p. 802.
- Greer, Edward R., and A. Krieg, Minneapolis, Minn., assignors to Emerson-Brantingham Company, Rockford, Ill. Gearing. No. 1,146,564; July 13; Gaz. vol. 216; p. 578.
- Greer, George, and M. Carney, Fitzherbert West, Palmerston North, New Zealand. Means for regulating the tension on the driving-belts of motor-cycles and the like. No. 1,141,539; June 1; Gaz. vol. 215; p. 162.
- Greer, Howard, Jr., Evanston, assignor to C. H. Fitzhugh and F. P. Luther, Chicago, Ill. Dumping-car. No. 1,125,307; Jan. 19; Gaz. vol. 210; p. 821.
- Greer, J. Knox. (See Yoakum, Hugh D., assignor.)
- Greer, James, East Orange, N. J., assignor to himself, and M. W. Collins, Philadelphia, Pa. Tank-car. No. 1,163,144; Dec. 7; Gaz. vol. 221; p. 143.
- Greer, James A. (See Greer, Andrew W., Sr., and J. A.)
- Greer, James A. (See Smith, William L., assignor.)
- Greer, Jesse W., Fort Worth, Tex., assignor to King Candy Company. Candy-drying machine. No. 1,147,939; July 27; Gaz. vol. 216; p. 1104.
- Greer, Samuel C., Warwick, assignor to Safety Engineering Company, Providence, R. I. Valve for elevators. No. 1,136,899; Apr. 20; Gaz. vol. 213; p. 1080.
- Greer, Thomas H. (See Scott and Greer.)
- Greeson, Claret B., assignor to F. L. Hunt, Fairfield, Iowa. Machine for cutting and folding cloth tubing. No. 1,154,581; Sept. 21; Gaz. vol. 218; p. 850.
- Greeson, Merton H., Tampa, Fla. Flush-siphon. No. 1,150,672; Aug. 17; Gaz. vol. 217; p. 942.
- Gregersen, Thorolf, Christiania, Norway. Distributing valve for hydraulic governors and the like. No. 1,123,273; Jan. 5; Gaz. vol. 210; p. 24.
- Gregersen, Thorolf, Norstrand, near Christiania, Norway. Governor for wood-grinders. No. 1,149,439; Aug. 10; Gaz. vol. 217; p. 443.
- Gregg, Adolphus E. J., Los Angeles, Cal. Artificial denture. No. 1,153,486; Sept. 14; Gaz. vol. 218; p. 436.
- Gregg Company, The. (See Gregg, Louis D., assignor.)
- Gregg Company, The. (See Gregg, Otis T., assignor.)
- Gregg Company Limited, The. (See Dahl, John L., assignor.)
- Gregg, Louis D., assignor to The Gregg Company, Limited, Hackensack, N. J. Stake-pocket. No. 1,145,479; July 6; Gaz. vol. 216; p. 177.
- Gregg, Marjorie T., Brookline, Mass. Toy. No. 1,141,459; June 1; Gaz. vol. 215; p. 133.
- Gregg, Otis T., assignor to The Gregg Company, Limited, Hackensack, N. J. Car-coupling. No. 1,156,072; Oct. 12; Gaz. vol. 219; p. 286.
- Gregg, Otis T., assignor to The Gregg Company, Limited, Hackensack, N. J. Car-coupling. No. 1,156,073; Oct. 12; Gaz. vol. 219; p. 287.
- Gregg, Robert E., Indianapolis, Ind., assignor to The Hamilton Corporation, New York, N. Y. Premium-certificate. No. 1,149,044; Aug. 3; Gaz. vol. 217; p. 198.
- Gregg, Ulysses G. (See Williams, John S., assignor.)
- Gregg, William E., Ford City, Pa. Sand washing and grading apparatus. No. 1,133,721; Mar. 30; Gaz. vol. 212; p. 1532.
- Gregor, Ernest B., Detroit, Mich. Convertible plano-bench. No. 1,136,123; Apr. 20; Gaz. vol. 213; p. 803.
- Gregory, Charles A. (See Gregory, Henry E. and C. A.)
- Gregory, Charles F., St. Louis, Mo., assignor to The Gregory Supply and Manufacturing Company. Combined steam and air feeder for fire-boxes. No. 1,135,276; Apr. 13; Gaz. vol. 213; p. 466.
- Gregory, Edward, Grove City, Pa. Combined tool and bushing for pneumatic hammers. No. 1,160,507; Nov. 16; Gaz. vol. 220; p. 822.
- Gregory, Eli E., Central City, Ky. Gun cartridge and projectile. No. 1,166,360; Dec. 28; Gaz. vol. 221; p. 1397.
- Gregory, Frank W., Danbury, Conn. Dividers. No. 1,137,605; Apr. 27; Gaz. vol. 213; p. 1369.
- Gregory, George. (See Miner, Raymond C., assignor.)
- Gregory, George R., Westminster, London, England. Liquid and solid fuel furnace. No. 1,137,310; Apr. 27; Gaz. vol. 213; p. 1267.
- Gregory, Henry E. and C. A., Trinidad, Colo. Hay shocker. No. 1,149,910; Aug. 10; Gaz. vol. 217; p. 613.
- Gregory, Oscar T., San Antonio, Tex., and N. W. Carkhuff, Chicago, Ill., assignors to Commercial Camera Company, Providence, R. I. Photographic-copying apparatus. No. 1,127,231; Feb. 2; Gaz. vol. 211; p. 200.
- Gregory Supply and Manufacturing Company, The. (See Gregory, Charles F., assignor.)
- Gregory, Thomas F., Henning, Tenn., assignor to W. B. Carson, St. Louis, Mo. Whiffletree. No. 1,154,246; Sept. 21; Gaz. vol. 218; p. 735.
- Gregory, Victor H., Chiswick, assignor to Pilkington Brothers, Limited, St. Helens, England. Glass-furnace. No. 1,151,942; Aug. 31; Gaz. vol. 217; p. 1480.

Alphabetical list of patentees—Continued.

- Gregory, Victor H., Chiswick, assignor to Pilkington Brothers, Limited, St. Helens, England. Furnace for drawing glass. No. 1,157,980; Oct. 26; Gaz. vol. 219; p. 1046.
- Gregory, Walter, Minneapolis, Minn., assignor, by mesne assignments to Avery Company, Peoria, Ill. Means for operating gang-plows. (Reissue.) No. 14,018; Nov. 23; Gaz. vol. 220; p. 1338.
- Gregson, Lue V., and A. P. Gough, Seattle, Wash. Fender for wheeled vehicles. No. 1,143,823; June 22; Gaz. vol. 215; p. 1057.
- Greider, Amos C., assignor of one-half to J. Angel, North Webster, Ind. Plumb and level gage. No. 1,165,246; Dec. 21; Gaz. vol. 221; p. 965.
- Greif, Bruno, Tacoma, Wash. Ship-propeller. No. 1,155,654; Oct. 5; Gaz. vol. 219; p. 114.
- Greif and Schlick. (See Eichert, Fritz, assignor.)
- Greif, Thomas L., and B. N. Lusby, Elizabethtown, Ky. Hydrant-repairing tool. No. 1,163,232; Dec. 7; Gaz. vol. 221; p. 174.
- Greiff, Christian E. P., and C. F. Schreiber, assignors of one-third to C. J. Klein, Chicago, Ill. Automobile safety-lock. No. 1,124,013; Jan. 5; Gaz. vol. 210; p. 276.
- Greiff, Christian E. P., and C. F. Schreiber, assignors of one-third to C. J. Klein, Chicago, Ill. Automobile safety-lock. No. 1,124,014; Jan. 5; Gaz. vol. 210; p. 277.
- Greig, Walter, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manfolding sales-book. No. 1,161,306; Nov. 23; Gaz. vol. 220; p. 1154.
- Greig, Walter, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manfolding sales-book. No. 1,165,590; Dec. 28; Gaz. vol. 221; p. 1122.
- Greilick, Clarence L., assignor to Traverse City Chair Company, Traverse City, Mich. Morris chair. No. 1,151,099; Aug. 24; Gaz. vol. 217; p. 1145.
- Greiner, Friedrich, Schwäbisch-Gmünd, assignor to O. Schlick, Berlin, Germany. Indicating device for internal-combustion engines. No. 1,165,501; Dec. 28; Gaz. vol. 221; p. 1091.
- Greiner, Fritz, Reinickendorf-Ost, assignor to O. Schlick, Berlin, Germany. Carburetor. No. 1,153,487; Sept. 14; Gaz. vol. 218; p. 436.
- Greist, Hubert M., New Haven, Conn., assignor to The Greist Manufacturing Company, Blotter. No. 1,135,012; Apr. 13; Gaz. vol. 213; p. 377.
- Greist Manufacturing Company, The. (See Greist, Hubert M., assignor.)
- Greist Manufacturing Company, The. (See Greist and Boyler, assignors.)
- Greist, Percy R., and E. J. Boyler, New Haven, Conn., assignors to The Greist Manufacturing Company. Safety-razor. No. 1,127,433; Feb. 9; Gaz. vol. 211; p. 309.
- Grelick, William P. M., Elgin, Ill. Homogenizing-valve. No. 1,131,368; Mar. 9; Gaz. vol. 212; p. 563.
- Grelick, William P. M., Elgin, Ill. Treating oils and fats. No. 1,144,539; June 29; Gaz. vol. 215; p. 1335.
- Grenard, Lone. (See Hanson, Bennie P., assignor.)
- Grenfell, Russell F. (See Lorraine, Le Roy F., assignor.)
- Grenier, Joseph E., Waterville, Conn. Game apparatus. No. 1,132,577; Mar. 23; Gaz. vol. 212; p. 1081.
- Grenzfelder, Julius M., St. Louis, Mo. Truss and truss-frame. No. 1,160,402; Nov. 16; Gaz. vol. 220; p. 785.
- Greppo, Auguste, Paris, France. Racking device for vats. No. 1,151,457; Aug. 24; Gaz. vol. 217; p. 1265.
- Gresset, William T., et al. (See Mooney, William A., assignor.)
- Greth, John C. W., Pittsburgh, Pa. Automatic purifier for swimming-pools. No. 1,144,327; June 22; Gaz. vol. 215; p. 1235.
- Greth, John C. W., and M. F. Newman, assignors to Wm. B. Scaife & Sons Company, Pittsburgh, Pa. Water-purifying apparatus. No. 1,149,045; Aug. 3; Gaz. vol. 217; p. 198.
- Greth, John C. W., and M. F. Newman, assignors to Wm. B. Scaife & Sons Company, Pittsburgh, Pa. Water-purifying apparatus. No. 1,149,750; Aug. 10; Gaz. vol. 217; p. 555.
- Greth, John C. W., Pittsburgh, and M. F. Newman, Oakmont, assignors to Wm. B. Scaife & Sons Company, Pittsburgh, Pa. Fluid-feeding apparatus. No. 1,150,673; Aug. 17; Gaz. vol. 217; p. 942.
- Greve, Edgar E., assignor to Oil Well Supply Company, Pittsburgh, Pa. Bracing for well-drilling engines. No. 1,144,837; June 29; Gaz. vol. 215; p. 1437.
- Greve, Herman L., New York, N. Y., assignor to International Mailing Tube & Wrapper Company. Mailing-envelop. No. 1,160,280; Nov. 16; Gaz. vol. 220; p. 743.
- Greve, John E. W., Chemnitz, assignor to Wanderer-Werke vormals Winkhofer & Jaenicke, A. G., Schöna, near Chemnitz, Germany. Totalizing mechanism for computing-machines. No. 1,127,434; Feb. 9; Gaz. vol. 211; p. 310.
- Greve, John E. W., Chemnitz, assignor to Wanderer-Werke, Vormals Winkhofer & Jaenicke, A. G., Schöna, near Chemnitz, Germany. Counting device for computing-machines. No. 1,128,972; Feb. 16; Gaz. vol. 211; p. 898.
- Greve, John E. W., Chemnitz, assignor to Wanderer-Werke, Vormals Winkhofer & Jaenicke, A. G., Schöna, near Chemnitz, Germany. Counting device for computing-machines. No. 1,128,973; Feb. 16; Gaz. vol. 211; p. 898.
- Greve, John E. W., Chemnitz, assignor to Wanderer-Werke, vormals Winkhofer & Jaenicke, A. G., Schöna, near Chemnitz, Germany. Paper-carriage-shifting mechanism for computing-machines. No. 1,144,192; June 22; Gaz. vol. 215; p. 1187.
- Greve, Louis W., assignor, by mesne assignments to The Cleveland Rock Drill Company, Cleveland, Ohio. Fluid-operated drilling-machine. No. 1,129,347; Feb. 23; Gaz. vol. 211; p. 1063.
- Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Coupling. No. 1,130,726; Mar. 9; Gaz. vol. 212; p. 343.
- Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Fluid-operated tool. No. 1,134,123; Apr. 6; Gaz. vol. 213; p. 14.
- Greve, Louis W., assignor, by mesne assignments, to The Cleveland Rock Drill Company, Cleveland, Ohio. Fluid-operated tool. No. 1,135,178; Apr. 13; Gaz. vol. 213; p. 434.
- Grevenberg, Louis C., Calumet, La. Settling apparatus. No. 1,150,360; Aug. 17; Gaz. vol. 217; p. 834.
- Grey, Charles M., East Orange, N. J. Casting-machine. No. 1,153,220; Sept. 14; Gaz. vol. 218; p. 340.
- Ggrurich, Thomas, Pittsburgh, Pa. Rail-joint. No. 1,125,841; Jan. 19; Gaz. vol. 210; p. 1011.
- Gridley, George O., Windsor, Vt. Screw-threading mechanism. No. 1,130,398; Mar. 2; Gaz. vol. 212; p. 194.
- Gridley, George O., Windsor, Vt. Metal-working machine. No. 1,166,126; Dec. 28; Gaz. vol. 221; p. 1311.
- Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,161,307; Nov. 23; Gaz. vol. 220; p. 1154.
- Griefen, Richard A., Chicago, Ill. Storm-shield. No. 1,126,754; Feb. 2; Gaz. vol. 211; p. 32.
- Griep, Henry, Jr., assignor to Hansmann Manufacturing Company, Long Prairie, Minn. Adjustable steering-pole. No. 1,126,755; Feb. 2; Gaz. vol. 211; p. 32.
- Griepe, Augustus W. H., New York, N. Y., assignor to Turbo Co. Internal-combustion turbine-engine. No. 1,150,361; Aug. 17; Gaz. vol. 217; p. 834.
- Griesbach, Henry S., Chiswick, England. Vaporizer for internal-combustion engines. No. 1,142,090; June 8; Gaz. vol. 215; p. 390.
- Griese, Johann F. W., Hamburg, Germany. Hand-rammer operated by compressed air. No. 1,144,838; June 29; Gaz. vol. 215; p. 1438.
- Grieshaber, Hugo, New London, Conn., assignor to Electric Boat Company, New York, N. Y. Life-buoy for submarine or submergible boats. No. 1,137,131; Apr. 27; Gaz. vol. 213; p. 1202.
- Griesmaier, John, Chicago, Ill. Locker. No. 1,134,330; Apr. 6; Gaz. vol. 213; p. 91.
- Griesser, Wilhelm, Denver, Colo. Tank construction. No. 1,133,278; Mar. 30; Gaz. vol. 212; p. 1372.
- Griesser, Wilhelm, St. Louis, Mo. Beer-faucet. No. 1,156,774; Oct. 12; Gaz. vol. 219; p. 530.
- Grieve, James, assignor of one-half to R. Homrighous, Wichita, Kans. Clasp. No. 1,128,601; Feb. 16; Gaz. vol. 211; p. 766.
- Grievies, Albert, Springfield, Ohio, assignor to International Harvester Company of New Jersey. Side-delivery hay-rake. No. 1,157,775; Oct. 26; Gaz. vol. 219; p. 973.
- Grievies, Albert, Springfield, Ohio, assignor to International Harvester Company. Mowing-machine. No. 1,164,713; Dec. 21; Gaz. vol. 221; p. 777.
- Griff, George H., Chicago, Ill. Whiffletree-hook. No. 1,125,308; Jan. 19; Gaz. vol. 210; p. 822.
- Griffard, John. (See Smith, James M., assignor.)
- Griffeth, Arthur V. (See Magri and Griffith.)
- Griffeth, Francis E., Athens, Ga. Device for attaching and detaching horses to and from vehicles. No. 1,129,567; Feb. 23; Gaz. vol. 211; p. 1141.
- Griffin, Alvah M., assignor to J. L. Jones Manufacturing Company, Kansas City, Mo. Silo. No. 1,145,306; July 6; Gaz. vol. 216; p. 115.
- Griffin, Eddie F., Uniontown, Pa. Oven-door. No. 1,139,272; May 11; Gaz. vol. 214; p. 582.
- Griffin, Francis, Greenville, Miss. Tractor for plows and cultivators. No. 1,159,680; Nov. 2; Gaz. vol. 220; p. 95.
- Griffin, Frank H., San Francisco, Cal. Can seal and spout. No. 1,144,409; June 29; Gaz. vol. 215; p. 1291.
- Griffin, George, Paterson, N. J. Carburetor. No. 1,147,940; July 27; Gaz. vol. 216; p. 1105.
- Griffin, George B., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Humidifier and air-cleaner. No. 1,130,267; Mar. 2; Gaz. vol. 212; p. 148.
- Griffin, Herbert E., Mount Horeb, Wis. Fire-lighter. No. 1,153,065; Sept. 7; Gaz. vol. 218; p. 248.
- Griffin, James S., Elgin, Tex. Rug-hanger. No. 1,139,273; May 11; Gaz. vol. 214; p. 583.
- Griffin, John B., Detroit, Mich. Percolator-pump. No. 1,142,322; June 8; Gaz. vol. 215; p. 470.
- Griffin, John R., Itasca, Tex. Hame-fastener. No. 1,133,856; Mar. 30; Gaz. vol. 212; p. 1580.
- Griffin, Joseph D., Cairo, W. Va. Packer for oil-wells. No. 1,149,751; Aug. 10; Gaz. vol. 217; p. 556.

Alphabetical list of patentees—Continued.

- Griffin, Judson M., and O. P. Allen, assignors to Wheel Truing Brake Shoe Company, Detroit, Mich. Wheel-truing apparatus. No. 1,136,124; Apr. 20; Gaz. vol. 213; p. 804.
- Griffin, Lorne A., Elkhart, Ind. Pipe-fitting for material-conveying hoses or conduits. No. 1,138,375; May 4; Gaz. vol. 214; p. 231.
- Griffin, Lorne A., Elkhart, Ind. Suction-machine for conduits conveying loose, abrasive, and disintegrated materials. No. 1,153,684; Sept. 14; Gaz. vol. 218; p. 505.
- Griffin, Michael J., Hartford, Conn. Horseshoe. No. 1,124,422; Jan. 12; Gaz. vol. 210; p. 469.
- Griffin, Nathan L., Woodward, Okla. Paper-clip. No. 1,151,943; Aug. 31; Gaz. vol. 217; p. 1480.
- Griffin, Rosa J., Cross Creek, New Brunswick, Canada. Fire-lighter. No. 1,124,015; Jan. 5; Gaz. vol. 210; p. 277.
- Griffin, Thomas J., assignor of one-half to E. Double, Los Angeles, Cal. Walking-beam for drilling-rigs. No. 1,129,348; Feb. 23; Gaz. vol. 211; p. 1063.
- Griffin, Thomas J., assignor of one-half to E. Double, Los Angeles, Cal. Underreamer. No. 1,131,928; Mar. 16; Gaz. vol. 212; p. 796.
- Griffing, Asa C., Baskin, La. Trap. No. 1,157,382; Oct. 19; Gaz. vol. 219; p. 776.
- Griffing, Asa C., Baskin, La. Nut-lock. No. 1,163,403; Dec. 7; Gaz. vol. 221; p. 234.
- Griffith, Benjamin W. (See Swafford, Levi W., assignor.)
- Griffith, Carl, Lamolite, Ill. Soil-pulverizer. No. 1,135,277; Apr. 13; Gaz. vol. 213; p. 466.
- Griffith, Charles E., Philadelphia, Pa. Car-vestibule door and trap. No. 1,152,626; Sept. 7; Gaz. vol. 218; p. 91.
- Griffith, Charles J., St. Louis, Mo. Railway-crossing. No. 1,162,858; Dec. 7; Gaz. vol. 221; p. 44.
- Griffith, George, assignor of one-half to J. M. Ferguson, Des Moines, Iowa. Fastening device for boxes for mine-drilling machines. No. 1,123,731; Jan. 5; Gaz. vol. 210; p. 182.
- Griffith, George L., New York, N. Y. Internal-combustion motor. No. 1,131,369; Mar. 9; Gaz. vol. 212; p. 563.
- Griffith, Graves, San Francisco, Cal. Range-finder. No. 1,152,171; Aug. 31; Gaz. vol. 217; p. 1560.
- Griffith, Herbert, Stamford, Conn. Buffer or guard for automobiles, &c. No. 1,159,662; Nov. 9; Gaz. vol. 220; p. 470.
- Griffith, Joshua H., Ellis, Kans. Gas-generating burner. No. 1,156,139; Oct. 12; Gaz. vol. 219; p. 310.
- Griffith, Richard, assignor to Miller Rubber Company, Akron, Ohio. Making pneumatic tires. No. 1,149,364; Aug. 10; Gaz. vol. 217; p. 416.
- Griffith, Richard, assignor to Miller Rubber Co., Akron, Ohio. Toy balloon. No. 1,158,206; Oct. 26; Gaz. vol. 219; p. 1125.
- Griffith, Richard T., assignor to Miller Rubber Company, Akron, Ohio. Air-bag. No. 1,163,908; Dec. 14; Gaz. vol. 220; p. 456.
- Griffith, William H. (See Sweet, William R., assignor.)
- Griffith, William P., Minneapolis, Minn. Metal folding crate. No. 1,164,502; Dec. 14; Gaz. vol. 221; p. 663.
- Griffith, William S., Homer City, Pa. Trolley-wheel. No. 1,155,913; Oct. 5; Gaz. vol. 219; p. 205.
- Griffith, Winfred S., assignor to Heald Machine Company, Worcester, Mass. Magnetic chuck. No. 1,146,867; July 20; Gaz. vol. 216; p. 701.
- Griffiths, Harry A., Edgbaston, Birmingham, England. Work-feeding mechanism. No. 1,164,503; Dec. 14; Gaz. vol. 221; p. 664.
- Griffiths, Thomas L., Birmingham, England. Lamp for vehicles. No. 1,152,807; Sept. 7; Gaz. vol. 218; p. 157.
- Griffiths, William H., Hereford, England. Fumigator. No. 1,162,911; Dec. 7; Gaz. vol. 221; p. 61.
- Griffiths, William J., Jr., Mount Vernon, assignor to Electric Mail Carrier Company, New York, N. Y. Apparatus for delivering mail. No. 1,157,981; Oct. 26; Gaz. vol. 219; p. 1047.
- Griffiths, William U., Philadelphia, Pa. Discharging-nozzle for water-closets. No. 1,142,249; June 8; Gaz. vol. 215; p. 445.
- Griffiths, William U., Philadelphia, Pa. Flush-tank for water-closet apparatus. No. 1,142,250; June 8; Gaz. vol. 215; p. 446.
- Griffiths, William U., Philadelphia, Pa. Adjustable bracket. No. 1,144,470; June 29; Gaz. vol. 215; p. 1312.
- Griffiths, William U., Philadelphia, Pa. Self-closing valve for water-closets. No. 1,148,836; Aug. 3; Gaz. vol. 217; p. 126.
- Griffiths, William U., Philadelphia, Pa. Valve-actuating mechanism for water-closet apparatus. No. 1,149,258; Aug. 10; Gaz. vol. 217; p. 377.
- Griffiths, William U., Philadelphia, Pa. Valve-operating mechanism for water-closet apparatus. No. 1,165,591; Dec. 28; Gaz. vol. 221; p. 1122.
- Grigg, James, assignor to H. P. Wallace, Minneapolis, Minn. Waste and revent fitting. No. 1,145,679; July 6; Gaz. vol. 216; p. 245.
- Grillet, Leon V., and J. B. Truchetet, Paris, France. Dynamo-electric machinery. No. 1,138,286; May 4; Gaz. vol. 214; p. 197.
- Grimes, George L., Detroit, Mich. Molding-machine. No. 1,130,968; Mar. 9; Gaz. vol. 212; p. 426.
- Grimes, James B., Dayton, assignor, by mesne assignments, to The Metal Label & Manufacturing Company, Springfield, Ohio. Making adhesive metal letters, figures, designs, &c. No. 1,151,519; Aug. 24; Gaz. vol. 217; p. 1288.
- Grimes, Joseph N. (See Wilson, Bert F., assignor.)
- Grimes, Joseph N., Denver, Colo. Water-elevating device. No. 1,142,089; June 8; Gaz. vol. 215; p. 390.
- Grimes, Josiah, Alhambra, assignor of one-half to B. F. Lytle, Los Angeles, Cal. Automatic feed-gate. No. 1,126,756; Feb. 2; Gaz. vol. 211; p. 33.
- Grimes, Lester A., New York, N. Y. Gate-valve signal. No. 1,127,232; Feb. 2; Gaz. vol. 211; p. 200.
- Grimes, Thaddeus S., assignor to Lummus Cotton Gin Company, Columbus, Ga. High-pressure valve. No. 1,160,070; Nov. 9; Gaz. vol. 220; p. 615.
- Grimley, John G. (See Jones and Grimley.)
- Grimm, Albert, et al. (See Eckenwiler, George M., assignor.)
- Grimm, Gustave H., deceased, Rutland, Vt.; H. W. Vaughan, executor. Evaporator. No. 1,159,213; Nov. 2; Gaz. vol. 220; p. 280.
- Grimm, Jacob, assignor to S. Stimmel, New York, N. Y. Machine for shelling nuts. No. 1,149,194; Aug. 10; Gaz. vol. 217; p. 353.
- Grimm, Martin C. (See Whitney and Grimm.)
- Grimm, Paul H., Glen Cove, and F. L. Cocks, assignors to Arbuckle Brothers, New York, N. Y. Package-forming machine. No. 1,133,857; Mar. 30; Gaz. vol. 212; p. 1581.
- Grimm, Paul H., Glen Cove, and F. L. Cocks, assignors to Arbuckle Brothers, New York, N. Y. Package-forming machine. No. 1,133,858; Mar. 30; Gaz. vol. 212; p. 1581.
- Grimm, Walter H. (See Nelson, Nils G., assignor.)
- Grimord, Matthew, Iron River, Mich. Thill-coupling. No. 1,128,974; Feb. 16; Gaz. vol. 211; p. 899.
- Grimord, Matthew, Iron River, Mich. Operating device for movable headlights. No. 1,140,152; May 18; Gaz. vol. 214; p. 930.
- Grimsley, Alvis C. (See Landsden and Grimsley.)
- Grimwood, Charles P., New York, N. Y. Vacuum-pan. No. 1,126,757; Feb. 2; Gaz. vol. 211; p. 33.
- Grine, Harry A., assignor of one-half to F. C. Nelles, Los Angeles, Cal. Atomizer. No. 1,156,840; Oct. 12; Gaz. vol. 219; p. 553.
- Grinnell Electric Car Co. (See Pattison, Albert W., assignor.)
- Grip Nut Company. (See Sharp, William E., assignor.)
- Griscorn-Russell Company, The. (See Bunnell, Sterling H., assignor.)
- Grisenthwaite, Thomas, Fall River, Mass. Valve for pumps. No. 1,146,247; July 13; Gaz. vol. 216; p. 466.
- Grissel, Walter R. (See Cunningham, James P., assignor.)
- Grissinger, Elwood, Buffalo, N. Y. Telephone-receiver. No. 1,129,087; Feb. 23; Gaz. vol. 211; p. 972.
- Grissinger, Homer N., Philadelphia, Pa. Paper-strip-feeding mechanism. No. 1,149,752; Aug. 10; Gaz. vol. 217; p. 556.
- Grissom, Louis A. (See Patterson and Grissom.)
- Griswold, Louis F., Cleveland, Ohio. Device for stripping wall-paper. No. 1,142,811; June 15; Gaz. vol. 215; p. 680.
- Griswold Manufacturing Co. (See Griswold, Milton O., assignor.)
- Griswold Manufacturing Company. (See Massing, Charles A., assignor.)
- Griswold Manufacturing Company, The. (See Wiltsie, Spencer A., assignor.)
- Griswold, Milton O. (See Briegel and Griswold.)
- Griswold, Milton O., assignor to Griswold Manufacturing Co., Rock Island, Ill. Vending-machine. No. 1,131,058; Mar. 9; Gaz. vol. 212; p. 457.
- Griswold, Robert G., assignor to Montague Mailing Machinery Co., Chattanooga, Tenn. Printing plate and tab. No. 1,161,045; Nov. 23; Gaz. vol. 220; p. 1059.
- Griswold, Thomas, Jr. (See Barstow and Griswold.)
- Griswold, Thomas, Jr., and E. O. Barstow, Midland, Mich., assignors, by mesne assignments, to The Cleveland Trust Company, trustee, Cleveland, Ohio. Oxygen-generator. No. 1,140,373; May 25; Gaz. vol. 214; p. 1040.
- Griswoldville Manufacturing Company. (See Bowman, James, assignor.)
- Groat, Chester A. (See Chute and Groat.)
- Grob, Hugo, Zurich, Switzerland. Magnetic controlling device. No. 1,161,819; Nov. 23; Gaz. vol. 220; p. 1331.
- Grob, Hugo, Zurich, Switzerland, assignor to Safety Car Heating & Lighting Company. Automatic switch. No. 1,163,996; Dec. 14; Gaz. vol. 221; p. 487.
- Grobe, William L. (See Lawrence, Benjamin F., assignor.)
- Grodin, Irvin M., Chicago, Ill. Umbrella, cane, and the like. No. 1,136,125; Apr. 20; Gaz. vol. 213; p. 804.
- Grodzki, Romuald, and S. Ivanoff, New York, N. Y. Railway-station indicator. No. 1,125,515; Jan. 19; Gaz. vol. 210; p. 895.
- Groebli, Joseph A., New York, N. Y. Embroidering-machine. No. 1,123,732; Jan. 5; Gaz. vol. 210; p. 182.
- Groebli, Joseph A., New York, N. Y. Shuttle mechanism for embroidering-machines. No. 1,126,987; Feb. 2; Gaz. vol. 211; p. 114.

Alphabetical list of patentees—Continued.

- Groebl, Joseph A., New York, N. Y. Tensioning device for embroidering-machines. No. 1,137,311; Apr. 27; Gaz. vol. 213; p. 1267.
- Groebl, Joseph A., New York, N. Y. Roller spreading device for embroidering-machines. No. 1,137,312; Apr. 27; Gaz. vol. 213; p. 1268.
- Groehn, Otto J., assignor to Briscoe Manufacturing Company, Detroit, Mich. Machine for forming seamed tubes. No. 1,137,966; May 4; Gaz. vol. 214; p. 86.
- Groehn, Otto J., assignor to Briscoe Manufacturing Company, Detroit, Mich. Machine for bending metal. No. 1,156,899; Oct. 19; Gaz. vol. 219; p. 603.
- Groehn, Otto J., assignor to Briscoe Manufacturing Company, Detroit, Mich. Bending metal. No. 1,158,484; Nov. 2; Gaz. vol. 220; p. 25.
- Groehn, Otto J., assignor to Briscoe Manufacturing Company, Detroit, Mich. Forming sheet-metal tanks. No. 1,160,880; Nov. 16; Gaz. vol. 220; p. 955.
- Groene, William F. (See Le Blond and Groene.)
- Groening, Charles W., New York, N. Y. Railway-station indicator. No. 1,152,725; Sept. 7; Gaz. vol. 218; p. 126.
- Groffman, Charles H., Syracuse, N. Y. Support for electric fixtures. No. 1,131,059; Mar. 9; Gaz. vol. 212; p. 457.
- Grogan, W. R. (See Blair, Hosea, assignor.)
- Groh, Edward J., The Weirs, N. H. Game apparatus. No. 1,147,087; July 20; Gaz. vol. 216; p. 779.
- Groh, Robert C., assignor of three-eighths to T. P. McKay, three-eighths to P. Gottfried, and one-fourth to O. O. Rindal, St. Paul, Minn. Automobile-alarm. No. 1,151,264; Aug. 24; Gaz. vol. 217; p. 1203.
- Grohal, Frank, Greensburg, Pa. Non-skid tire-armor. No. 1,139,274; May 11; Gaz. vol. 214; p. 583.
- Grohn, Henry P. (See Kenney and Grohn.)
- Grohowsky, John F., Kingston, Pa. Trolley-contact. No. 1,126,989; Feb. 2; Gaz. vol. 211; p. 114.
- Grohowsky, John F., Fortyfort, assignor of forty one-hundredths to J. J. Murray, Wilkes-Barre, Pa. Electric switch mechanism. No. 1,126,988; Feb. 2; Gaz. vol. 211; p. 114.
- Groll, Charles P. (See Groll, William F. and C. P.)
- Groll, William F. and C. P., Waldo, Ohio. Means for starting internal-combustion engines. No. 1,149,978; Aug. 10; Gaz. vol. 217; p. 638.
- Gröndal, Gustaf, Djursholm, and H. Nilsson, Nyhammar, Sweden. Treatment of subdivided ores for agglomerating or reducing them and apparatus therefor. No. 1,142,324; June 8; Gaz. vol. 215; p. 471.
- Gronke, Barney, Chicago, Ill., assignor to International Harvester Company of New Jersey. Corn-picker. No. 1,145,890; July 13; Gaz. vol. 216; p. 339.
- Gronlund, Gunnar, assignor of one-third to R. Charf and one-third to J. B. Sjodin, Duluth, Minn. Adjustable and collapsible stand. No. 1,164,714; Dec. 21; Gaz. vol. 221; p. 777.
- Grönningssæter, Anton. (See Haglund and Grönningssæter.)
- Grooms, Ellas L. (See Foretick and Grooms.)
- Groschopp, William F., Brooklyn, assignor to Kampf Bros., New York, N. Y. Safety-razor. No. 1,146,868; July 20; Gaz. vol. 216; p. 701.
- Groschopp, William F., Brooklyn, assignor to Kampf Bros., New York, N. Y. Safety-razor. No. 1,146,869; July 20; Gaz. vol. 216; p. 702.
- Grosdidier, René, Commercy, France. Drop-hammer. No. 1,128,131; Feb. 9; Gaz. vol. 211; p. 555.
- Grose, Amos A., Madison township, St. Joseph county, Ind. Self-starter for explosive-engines. No. 1,144,410; June 29; Gaz. vol. 215; p. 1291.
- Grose, Amos A., Madison township, St. Joseph county, Ind. Railway-rail joint. No. 1,161,472; Nov. 23; Gaz. vol. 220; p. 1212.
- Grose, James H. (See Hunt and Grose.)
- Grosenbeck, Louis F., Poughkeepsie, N. Y. Knockdown mail-container. No. 1,135,892; Apr. 13; Gaz. vol. 213; p. 683.
- Gross, Angus R., Catonsville, assignor to J. T. Gillilan, Baltimore, Md. Apparatus for carbonating liquids. No. 1,136,004; Apr. 20; Gaz. vol. 213; p. 764.
- Gross, Arthur W., and G. H. Dannenberg, Schenectady, N. Y. Bottle closure and protector. No. 1,137,607; Apr. 27; Gaz. vol. 213; p. 1369.
- Gross, Charles A. (See Cooper, Charles, assignor.)
- Gross, Charles W., assignor of one-half to E. W. Robinson, Napa, Cal. Leather-toughening composition and making same. No. 1,149,645; Aug. 10; Gaz. vol. 217; p. 519.
- Gross Company, The. (See Gross, John, assignor.)
- Gross, Edward G., Columbus, Ga. Pneumatic press and metal-forming machine. No. 1,137,132; Apr. 27; Gaz. vol. 213; p. 1202.
- Gross, Henry P., deceased, Baltimore, Md.; R. Biggs, administrator. Basket. No. 1,157,528; Oct. 19; Gaz. vol. 219; p. 827.
- Gross, Johannes J., Hamburg, Germany. Producing tanning compositions from waste sulfit-cellulose liquor. No. 1,154,762; Sept. 28; Gaz. vol. 218; p. 940.
- Gross, John, assignor to The Gross Company, Carroll, Iowa. Draft-equalizer. No. 1,133,279; Mar. 30; Gaz. vol. 212; p. 1372.
- Gross, Jonas F., Allentown, Pa. Aluminum solder. No. 1,145,307; July 6; Gaz. vol. 216; p. 115.
- Gross, Owen B., Aurora, Ill. Work-holder. No. 1,163,145; Dec. 7; Gaz. vol. 221; p. 143.
- Gross, Robert, Belfast, Me. Board-clamp. No. 1,123,274; Jan. 5; Gaz. vol. 210; p. 24.
- Gross, William, and E. Z. Wellman, Sparta, Mich. Truss. No. 1,139,514; May 18; Gaz. vol. 214; p. 704.
- Grosscup, Will H. (See Wilson, James I., assignor.)
- Grosser, Paul, Albersdorf, Germany. Hydroplane and aeroplane. No. 1,136,420; Apr. 20; Gaz. vol. 213; p. 911.
- Grossgebauer, John, Paterson, N. J. Shoe-lace. No. 1,163,775; Dec. 28; Gaz. vol. 221; p. 1188.
- Grossmann, Gustav. (See Raschorn and Grossmann.)
- Grosvenor, William M., Grantwood, N. J. Apparatus and process for drying. No. 1,138,751; May 11; Gaz. vol. 214; p. 399.
- Grosvenor, William M., Grantwood, N. J. Lighting apparatus. No. 1,156,477; Oct. 12; Gaz. vol. 219; p. 426.
- Grosvenor, William M., New York, N. Y. Drying system. No. 1,141,705; June 1; Gaz. vol. 215; p. 219.
- Grosvenor, William M., Ridgewood, N. J. Handling and treating combustible gases and vapors. No. 1,143,623; June 22; Gaz. vol. 215; p. 989.
- Grosvoid, Frederick E., Eau Claire, assignor of one-half to D. W. Johnson, Milwaukee, Wis. Sewer-pipe cleaner. No. 1,151,357; Aug. 24; Gaz. vol. 217; p. 1233.
- Grote, Ludwig, Tottenham, London, England, and J. Rothkopf, Gagny, near Paris, France, assignors to Hingham Manufacturing Company, Limited, London, England. Liquid-fuel furnace. No. 1,150,758; Aug. 17; Gaz. vol. 217; p. 972.
- Grote, William E., New York, N. Y. Photographic-printing machine. No. 1,159,373; Nov. 9; Gaz. vol. 220; p. 367.
- Grotzke, Ivan W., assignor to General Machine Works, York, Pa. Stop-motion mechanism for knitting-machines. No. 1,158,485; Nov. 2; Gaz. vol. 220; p. 25.
- Grotts, Joseph B., et al. (See Buffalo, Drury S., assignor.)
- Grotz, Albert R., Wellsburg, W. Va. Blow-mold for glassware. No. 1,129,668; Feb. 23; Gaz. vol. 211; p. 1175.
- Grotzky, Hugo, Chapman, Nebr. Wheel attachment. No. 1,163,004; Dec. 7; Gaz. vol. 221; p. 95.
- Grout, Barton F., Derby, Vt. Extension-arm. No. 1,155,916; Oct. 5; Gaz. vol. 219; p. 206.
- Grout, Harry K., Muscatine, Iowa. Device for measuring and cutting fabrics. No. 1,133,133; Mar. 23; Gaz. vol. 212; p. 1285.
- Grove, E. W., Sr. (See Schmidt, Ludwig, assignor.)
- Grove, Edwin W., St. Louis, Mo. Comb. No. 1,166,361; Dec. 28; Gaz. vol. 221; p. 1397.
- Grove, Edwin W., and G. P. Crumbaugh, St. Louis, Mo. Combination-brush. No. 1,142,698; June 8; Gaz. vol. 215; p. 601.
- Grove, Jacob R., Washington, D. C. Gage-pin for tympan of platen printing-presses. No. 1,138,863; May 11; Gaz. vol. 214; p. 440.
- Grove, James H., Shawnee, Okla. Stalk-cutter. No. 1,134,451; Apr. 6; Gaz. vol. 213; p. 134.
- Grove, Joseph, Sparkhill, assignor to F. Mountford, Birmingham, England. Carburetor. No. 1,159,933; Nov. 9; Gaz. vol. 220; p. 569.
- Grove, Martin L., assignor of one-half to W. A. Wray and one-sixth to A. Foy, Tylersburg, Pa. Gasolene-strainer. No. 1,155,914; Oct. 5; Gaz. vol. 219; p. 205.
- Grove, Martin L., assignor of one-half to W. A. Wray and one-sixth to A. Foy, Tylersburg, Pa. Automatic fluid-pressure cut-off. No. 1,155,915; Oct. 5; Gaz. vol. 219; p. 206.
- Grove, Walter R., London, England. Non-refillable bottle. No. 1,124,016; Jan. 5; Gaz. vol. 210; p. 277.
- Grove, Winfield S., Manila, Philippine Islands. Pulp and waste removing and fiber-cleaning machine. No. 1,145,014; July 6; Gaz. vol. 216; p. 13.
- Grove, Winfield S., Manila, Philippine Islands. Pulp and waste removing and fiber-cleaning machine. No. 1,145,015; July 6; Gaz. vol. 216; p. 13.
- Grover, Albert D. (See Bowers, Barber, and Grover.)
- Grover, Albert D., Malden, and E. E. Barber, Boston, Mass., assignors to Boston Coin Machines Company. Check-controlled apparatus. No. 1,151,539; Aug. 24; Gaz. vol. 217; p. 1295.
- Grover, Charles G., Nescopeck, Pa. Reamer. No. 1,163,083; Dec. 7; Gaz. vol. 221; p. 121.
- Grover, George, assignor of one-half to E. W. Stilltoe, Danbury, Conn. Automatic automobile-headlight. No. 1,146,619; July 13; Gaz. vol. 216; p. 597.
- Grover, George B., assignor to W. J. Young Machinery Company, Lynn, Mass. Trimmer for dieing-machines. No. 1,155,655; Oct. 5; Gaz. vol. 219; p. 114.
- Grover, Oscar T. (See Jensen, Soren, assignor.)
- Groves, John W. (See Allgood, Oscar B., assignor.)
- Grow, James A. (See Gardner and Grow.)
- Grow, John H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Timber-treating apparatus. No. 1,164,938; Dec. 21; Gaz. vol. 221; p. 856.
- Grozel, Ivan, assignor of one-fifth to M. Pausic, one-fifth to F. Grdic, one-fifth to P. Grdic, and one-fifth to N. Bokulic, McKeesport, Pa. Rail-joint. No. 1,146,494; July 13; Gaz. vol. 216; p. 554.

Alphabetical list of patentees—Continued.

- Grubb, David B., and H. B. Butler, Birmingham, England. Gas-controller. No. 1,150,759; Aug. 17; Gaz. vol. 217; p. 972.
- Grubb, Robert, Powers Lake, N. D. Plow. No. 1,155,917; Oct. 5; Gaz. vol. 219; p. 206.
- Grubba, Anthony, and J. Ponke, Royal Oak, Mich. Caster. No. 1,148,837; Aug. 3; Gaz. vol. 217; p. 127.
- Grubbé, Emil H., Chicago, Ill. Ray-tube. No. 1,131,234; Mar. 9; Gaz. vol. 212; p. 517.
- Gruhman, Leo, assignor to Electric Spark Appliance Co., Inc., New York, N. Y. Electromagnetic sound-producer. No. 1,143,189; June 15; Gaz. vol. 215; p. 814.
- Gruhman, Leo, assignor to Electric Spark Appliance Co., Inc., New York, N. Y. Electromagnetic sound-producer. No. 1,147,016; July 20; Gaz. vol. 216; p. 755.
- Gruenberg, Raoul J. (See Lyons and Gruenberg.)
- Gruenewald, Eugene, Moline, Ill., assignor to Moline Automobile Co., Clutch mechanism. No. 1,126,448; Jan. 26; Gaz. vol. 210; p. 1262.
- Gruenewald, Eugene, Moline, assignor to Moline Automobile Co., East Moline, Ill. Automobile. No. 1,139,861; May 18; Gaz. vol. 214; p. 826.
- Gruenewald, Walter A. (See Allen, James M., assignor.)
- Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Motor-vehicle. No. 1,139,674; May 18; Gaz. vol. 214; p. 761.
- Gruenhagen, Henry. (See Webster and Gruenhagen.)
- Gruenig, John J., Miles City, Mont. Sole-straightening means. No. 1,135,106; Apr. 13; Gaz. vol. 213; p. 409.
- Gruettner, Henry W. J., Vallejo, Cal. Dispensing-can. No. 1,133,134; Mar. 23; Gaz. vol. 212; p. 1285.
- Grühl, Reinhold. (See Stockhausen and Grühl.)
- Grun, Willibald, Frankfurt-on-the-Main, Germany. Cooler for rotary compressors. No. 1,126,004; Jan. 26; Gaz. vol. 210; p. 1101.
- Grun, Willibald, Frankfurt-on-the-Main, Germany. Steam-turbine. No. 1,128,132; Feb. 9; Gaz. vol. 211; p. 536.
- Grunbauch, Charles, assignor to one-half to N. J. Seaver, Detroit, Mich. Tool-holder. No. 1,154,010; Sept. 21; Gaz. vol. 218; p. 654.
- Grundeman, Carl W., Netawaka, Kans. Saw-set. No. 1,128,776; Feb. 16; Gaz. vol. 211; p. 826.
- Grundfast, Max. (See Pierce, William L., assignor.)
- Grundmann, Herbert H., *et al.* (See Harris and Chromasta, assignors.)
- Grundorf, John W., St. Louis, Mo. Ash-sifter. No. 1,135,107; Apr. 13; Gaz. vol. 213; p. 410.
- Gruneisen, Charles L., Palmer's Green, and J. T. Hircok, Finsbury, London, England. Attachment to casing-in machines used in bookbinding. No. 1,125,309; Jan. 19; Gaz. vol. 210; p. 822.
- Grunendike, Edward B., assignor to B. F. Booth, Springfield, Ill. Automatic valve for stock-fountains. No. 1,127,859; Feb. 2; Gaz. vol. 211; p. 241.
- Grünwald, Carl A., Hanover, Germany. Filing apparatus. No. 1,150,674; Aug. 17; Gaz. vol. 217; p. 943.
- Grünig, Max, and A. H. Woodfield, Luton, England. Hat-lining, bandeau, and similar article. No. 1,145,765; July 6; Gaz. vol. 216; p. 276.
- Grunow, William, Jr., New York, N. Y. Folding box. No. 1,140,741; May 25; Gaz. vol. 214; p. 1168.
- Grunow, William, Jr., New York, N. Y. Power-transmitting mechanism. No. 1,165,091; Dec. 21; Gaz. vol. 221; p. 909.
- Grunow, William, Jr., New York, N. Y. Power-transmitting mechanism. No. 1,165,092; Dec. 21; Gaz. vol. 221; p. 910.
- Grunsky, Carl E., San Francisco, Cal. Automatic air-exhaust for centrifugal pumps. No. 1,157,216; Oct. 19; Gaz. vol. 219; p. 716.
- Grunwald, Albert C., Maywood, Ill. Bottle-seal. No. 1,123,733; Jan. 5; Gaz. vol. 210; p. 183.
- Grunwald, Edward T. and J. A., Louisville, Ky. Table-display stilt. No. 1,134,331; Apr. 6; Gaz. vol. 213; p. 91.
- Grunwald, Joseph A. (See Grunwald, Edward T. and J. A.)
- Grünzweig, Max, Ludwigshafen-on-the-Rhine, Germany. Impregnating ceramic and other porous objects. No. 1,124,891; Jan. 12; Gaz. vol. 210; p. 638.
- Grünzweig, Max, Ludwigshafen-on-the-Rhine, Germany, assignor to The Armstrong Cork and Insulation Company, Pittsburgh, Pa. Treatment of cork. No. 1,155,057; Sept. 28; Gaz. vol. 218; p. 1040.
- Grupe, William F., Jersey City, N. J. Sound-box. No. 1,162,351; Nov. 30; Gaz. vol. 220; p. 1564.
- Grus Leaf Spring Oiler Company. (See Grus, William, Jr., assignor.)
- Grus, William, Jr., assignor to Grus Leaf Spring Oiler Company, Chicago, Ill. Antiskid device. No. 1,164,279; Dec. 14; Gaz. vol. 221; p. 584.
- Gruschka, Max. (See Marjanko and Gruschka.)
- Gruss, Lucien R., San Francisco, Cal. Fluid-pressure cushioning and weighing mechanism. No. 1,142,162; June 8; Gaz. vol. 215; p. 415.
- Grüter, Reinhold, Charlottenburg, and H. Pohl, Bielefeld, assignors to Chemische Werke vorm. Dr. Heinrich Byk, Lehnitz-Nordbahn, Germany. Manufacture of esters of oxy fatty acids. No. 1,160,595; Nov. 16; Gaz. vol. 220; p. 854.
- Gruzecki, Frank, Passaic, assignor to one-half to A. Buchak, Newark, N. J. Gas-engine. No. 1,132,928; Mar. 23; Gaz. vol. 212; p. 1210.
- Grymowski, Boleslaw. (See Pejta, Grymowski, and Barszcz.)
- Grzeziński, Anthony. (See Jarosz, Stanley, assignor.)
- Grzybowski, Stanislaw, Fort Wayne, Ind. Ship's table. No. 1,142,163; June 8; Gaz. vol. 215; p. 416.
- Gschwind, Leon, Youngstown, Ohio. Dish-washing apparatus. No. 1,135,108; Apr. 13; Gaz. vol. 213; p. 410.
- Gsell, Henry A., Paris, France. Match-magazine for machines for filling boxes with matches. No. 1,124,017; Jan. 5; Gaz. vol. 210; p. 278.
- Gsell, Henry A., Paris, France. Match-making machine. No. 1,151,680; Aug. 31; Gaz. vol. 217; p. 1389.
- Guadagnino, Salvatore, New York, N. Y. Vending-machine. No. 1,155,918; Oct. 5; Gaz. vol. 219; p. 207.
- Guaranty Trust Company of New York, trustee. (See Carpenter, Campbell C., assignor.)
- Guariglia, Angelo R., Morgantown, W. Va. Swingletree. No. 1,135,109; Apr. 13; Gaz. vol. 213; p. 410.
- Guay, Emile J., Swampscott, Mass., assignor to General Electric Company. Arc-lamp. No. 1,142,251; June 8; Gaz. vol. 215; p. 446.
- Guay, Emile J., Swampscott, Mass., assignor to General Electric Company. Testing cut-out for arc-lamps. No. 1,156,526; Oct. 12; Gaz. vol. 219; p. 443.
- Gubbins, John F. (See Pawlak, William, assignor.)
- Gubelmann, William S., Rochester, N. Y. Calculating-machine. No. 1,160,071; Nov. 9; Gaz. vol. 220; p. 615.
- Gucker, George A., *et al.* (See Thayer, Charles H., assignor.)
- Guderjahn, Henry A., Westfield, Wis. Envelop or letter opener. No. 1,148,896; Aug. 3; Gaz. vol. 217; p. 146.
- Gudge, Benjamin J. (See Little and Gudge.)
- Gudmond-Hoyer, Jakob V., Morris, N. Y. Subsoiling apparatus. No. 1,125,018; Jan. 12; Gaz. vol. 210; p. 683.
- Gudmond-Hoyer, Jakob V., Morris, N. Y. Mechanism for boring holes in the earth. No. 1,139,275; May 11; Gaz. vol. 214; p. 583.
- Gudmundsen, Abraham, Payson, Utah. Beet-cleaner. No. 1,153,381; Sept. 14; Gaz. vol. 218; p. 398.
- Gue, Harry D., New York, N. Y. Separating gases. No. 1,123,867; Jan. 5; Gaz. vol. 210; p. 229.
- Guelff, Elisee, L. S. Dunn, and V. Theis, Point Marion, Pa. Glass-drawing apparatus. No. 1,134,192; Apr. 6; Gaz. vol. 213; p. 39.
- Guenther, Henry L., assignor to P. O. Guenther, Los Angeles, Cal. Machine for flanging can-bodies. No. 1,144,839; June 29; Gaz. vol. 215; p. 1438.
- Guenther, Pearl O. (See Guenther, Henry L., assignor.)
- Guentzler, Herman F. (See Mead and Guentzler.)
- Guenzel, Ernst J., Milwaukee, Wis. Overcoat. No. 1,163,909; Dec. 14; Gaz. vol. 220; p. 456.
- Guéret, André, Paris, France. Multicylinder internal-combustion engine. No. 1,164,504; Dec. 14; Gaz. vol. 221; p. 664.
- Guérineau, Alexis, Cholet, France. Yoke. No. 1,142,091; June 8; Gaz. vol. 215; p. 391.
- Guernsey, Charles O. (See Galbreath and Guernsey.)
- Guerrant, Estill C., Marianna, Ark. Garment-support. No. 1,129,388; Feb. 23; Gaz. vol. 211; p. 1078.
- Guertzoni, Joseph, and R. Pechkranz, Geneva, Switzerland. Projection apparatus. No. 1,153,685; Sept. 14; Gaz. vol. 218; p. 506.
- Guertzoni, Joseph, and R. Pechkranz, Geneva, Switzerland. Automatic projection apparatus. No. 1,161,660; Nov. 23; Gaz. vol. 220; p. 1276.
- Guest, Alfred W. F., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Type or matrix. No. 1,126,196; Jan. 26; Gaz. vol. 210; p. 1174.
- Guest, Alfred W. F., New York, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,151,944; Aug. 31; Gaz. vol. 217; p. 1480.
- Guetschow, Frederick A. (See Foster and Guetschow.)
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Key-operated rotary switch. No. 1,138,752; May 11; Gaz. vol. 214; p. 399.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,141,460; June 1; Gaz. vol. 215; p. 134.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric-switch wall-case. No. 1,161,046; Nov. 23; Gaz. vol. 220; p. 1060.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric snap-switch. No. 1,163,084; Dec. 7; Gaz. vol. 221; p. 122.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Work-holder. No. 1,164,505; Dec. 14; Gaz. vol. 221; p. 665.
- Gueux, Joseph J. M., Paris, France. Apparatus for controlling the flow of fluids through conduits. No. 1,159,214; Nov. 2; Gaz. vol. 220; p. 280.
- Guffey, Henry C., Herrin, Ill. Safety appliance for elevators. No. 1,124,609; Jan. 12; Gaz. vol. 210; p. 537.
- Guggenheim, Edmond A., New York, N. Y. Production of cathode-forming sheets. No. 1,163,337; Dec. 7; Gaz. vol. 221; p. 211.
- Guggenheim Laundry Machinery Company, The. (See Alber, James G., assignor.)
- Guggenheim Laundry Machinery Company, The. (See Freeman, Ladbroke H., assignor.)

- Guggenheim Laundry Machinery Company, The. (See Lord and Brockett, assignors.)
- Guggenheim, Sigmund, Berlin-Wilmersdorf, Germany. Electric furnace. No. 1,157,691; Oct. 26; Gaz. vol. 219; p. 946.
- Guggenheim, Solomon D., Cleveland, Ohio. Ironing-press. No. 1,141,184; June 1; Gaz. vol. 215; p. 33.
- Guggenheimer, Rebecca L., New York, N. Y. Apron. No. 1,156,900; Oct. 19; Gaz. vol. 219; p. 604.
- Gugler, Julius H., and M. Lindem, Milwaukee, Wis.; said Lindem assignor to said Gugler. Regulating-switch for storage batteries. No. 1,123,275; Jan. 5; Gaz. vol. 210; p. 24.
- Gul, Emilio, assignor to Ing Barzano & Zanardo, Rome, Italy. Making calcium cyanamid by the action of nitrogen on calcium carbide. No. 1,164,087; Dec. 14; Gaz. vol. 221; p. 619.
- Gulberson, S. A., Jr. (See Martin, George C., assignor.)
- Gulberson, Samuel A., Jr. (See Richard, Leroy L., assignor.)
- Gulbert, F. Walter, Detroit, Mich. Heat-insulator. No. 1,145,192; July 6; Gaz. vol. 216; p. 76.
- Gulbert, F. Walter, assignor to Eckliff Automatic Boiler Circulator Company, Detroit, Mich. Circulator. No. 1,138,864; May 11; Gaz. vol. 214; p. 441.
- Guice, Duke. (See Lane, Guice, and Dohrmeier.)
- Guice, Duke, H. P. Dohrmeier, and O. A. Lane, Greenville, Ala. Folding crate or box. No. 1,129,088; Feb. 23; Gaz. vol. 211; p. 973.
- Guide Motor Lamp Manufacturing Company, The. (See Persons, William F., assignor.)
- Guldinger, Joseph, near Los Angeles, Cal. Poultry-fountain. No. 1,144,591; June 29; Gaz. vol. 215; p. 1362.
- Gulld, George, South Houston, Tex. Jack-block. No. 1,143,760; June 22; Gaz. vol. 215; p. 1035.
- Gullery, René, Aubervilliers, France. Clutch or like apparatus. No. 1,159,063; Nov. 9; Gaz. vol. 220; p. 470.
- Gullery, René, assignor to Societe des Etablissements Malicot & Bijn, Aubervilliers, France. Admission and exhaust mechanism for engines. No. 1,134,124; Apr. 6; Gaz. vol. 213; p. 14.
- Gullette, Fred A., Taunton, Mass. Self-threading loom-shuttle. No. 1,154,011; Sept. 21; Gaz. vol. 218; p. 654.
- Guillot, Adrien J., assignor of fifty-one one-hundredths to T. Guillot, Thibodaux, La. Popper. No. 1,162,859; Dec. 7; Gaz. vol. 221; p. 44.
- Guillot, Treville. (See Guillot, Adrien J., assignor.)
- Gulilow, Louis E., administrator. (See Webber and Hemeway.)
- Guinn, Samuel E., Johnson City Tenn. Shaving-brush. No. 1,164,641; Dec. 21; Gaz. vol. 221; p. 752.
- Gulnter, Spurgeon E., et al. (See Gulnter, William S., assignor.)
- Gulnter, William S., assignor, by mesne assignments, of one-fourth to W. S. Gulnter, one-fourth to S. E. Gulnter, one-fourth to C. S. Thomas, and one-fourth to J. H. Thomas, Rockford, Ill. Washing-machine. No. 1,127,884; Feb. 9; Gaz. vol. 211; p. 469.
- Gulnzburg, Edwin A., New York, N. Y. Bathing-cap. No. 1,144,121; June 22; Gaz. vol. 215; p. 1163.
- Gulnzburg, Victor, assignor to The I. B. Kleinert Rubber Company, New York, N. Y. Garment. No. 1,164,642; Dec. 21; Gaz. vol. 221; p. 752.
- Guise, Jacob J., Parkersburg, W. Va. Casing-spear. No. 1,144,592; June 29; Gaz. vol. 215; p. 1352.
- Gulu, Ernest A. L., Prats-de-Mollo, France. Automatic apparatus for removing leaves, refuse, or large particles carried along by water or all flowing fluids. No. 1,128,602; Feb. 16; Gaz. vol. 211; p. 767.
- Gulbrandsen, Sverre, Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Limp inverted mantle. No. 1,133,469; Mar. 30; Gaz. vol. 212; p. 1439.
- Gulbrandsen, Sverre, Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Incandescent mantle. No. 1,133,470; Mar. 30; Gaz. vol. 212; p. 1439.
- Gulbrandsen, Lewis H., Hayward, Minn. Resilient wheel. No. 1,135,278; Apr. 13; Gaz. vol. 213; p. 467.
- Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Automatically-operated piano. No. 1,150,861; Aug. 24; Gaz. vol. 217; p. 1066.
- Gulbransen-Dickinson Company. (See Gulbransen, Axel G., assignor.)
- Gulbransen-Dickinson Company. (See Gulbransen, Christian, assignor.)
- Gulbransen, Christian, assignor to Gulbransen-Dickinson Company, Chicago, Ill. Pneumatically-operated piano. No. 1,159,374; Nov. 9; Gaz. vol. 220; p. 367.
- Gulf Refining Company. (See Bacon, Brooks, and Clark, assignors.)
- Gulf Refining Company. (See Brooks, Benjamin T., assignor.)
- Gulf Refining Company. (See Hibbert, Harold, assignor.)
- Gull, Alexander M., Lorain, Ohio. Scale mechanism. No. 1,124,610; Jan. 12; Gaz. vol. 210; p. 538.
- Gullage, Joseph. (See Wood and Gullage.)
- Gullberg, Alex., Arlington, N. J., and C. L. Smith, New York, N. Y. Adjustable jogging device for signature-gathering machines. No. 1,125,310; Jan. 19; Gaz. vol. 210; p. 822.
- Gulley, Charles L., and W. L. Mann, St. Joseph, Mo. Windmill. No. 1,162,912; Dec. 7; Gaz. vol. 221; p. 61.
- Gullickson, Martin A., Bonetrail, N. D. Blade-and-chain field-float. No. 1,146,155; July 13; Gaz. vol. 216; p. 433.
- Gullickson, Martin A., Minneapolis, Minn. Field-float. No. 1,153,803; Nov. 2; Gaz. vol. 220; p. 138.
- Gumbel, George H., Brooklyn, N. Y. Lamp-bracket. No. 1,136,005; Apr. 20; Gaz. vol. 213; p. 764.
- Gunckel, Pearl L., Dayton, Ohio. Heating-boiler. No. 1,142,323; June 8; Gaz. vol. 215; p. 471.
- Gund, Adolf, New York, N. Y. Animated toy. No. 1,146,700; July 13; Gaz. vol. 216; p. 623.
- Gunderson, Gilbert S., Colfax, Wis. Foot-accelerator for Ford automobile-engines. No. 1,157,099; Oct. 19; Gaz. vol. 219; p. 675.
- Gunderson, Gunder H., Fairchild, Wis. Drag for multiple barrows. No. 1,154,763; Sept. 28; Gaz. vol. 218; p. 940.
- Gundlach-Manhattan Optical Company. (See Burnell, William E., assignor.)
- Gundry, James E., assignor of one-half to C. E. Crusoe, Flint, Mich. Trolley-retriever. No. 1,136,228; Apr. 20; Gaz. vol. 213; p. 841.
- Gunn, Earl G., assignor to General Motors Company, Detroit, Mich. Multicylinder engine. No. 1,132,256; Mar. 16; Gaz. vol. 212; p. 917.
- Gunn, Francis, Reddish, England. Tool or appliance for use in making joints in driving-belt. No. 1,144,122; June 22; Gaz. vol. 215; p. 1163.
- Gunn, Francis M., O. Bark, and W. Scowcroft, Chicago, Ill.; said Bark and said Scowcroft assignors to said Gunn. Ventilating device. No. 1,135,685; Apr. 13; Gaz. vol. 213; p. 611.
- Gunn, George C. (See Smith, Richard S., Jr., assignor.)
- Gunn, John A., Des Moines, Iowa, assignor to N. Gunn. Transfer-car. No. 1,139,411; May 11; Gaz. vol. 214; p. 631.
- Gunn, John C., Marvin, Mo. Force-feed lubricator. No. 1,159,664; Nov. 9; Gaz. vol. 220; p. 470.
- Gunn, John M., assignor of one-half to E. R. Rosser, New York Mills, Minn. Grading and sizing machine. No. 1,163,910; Dec. 14; Gaz. vol. 220; p. 456.
- Gunn, Nell. (See Gunn, John A., assignor.)
- Gunn, Seth C., Clouderoff, N. Mex. Metallic railway-tie. No. 1,124,423; Jan. 12; Gaz. vol. 210; p. 469.
- Gunn, W. T. (See Briggs, Jay, assignor.)
- Gunn, William E., Ferry, Mich. Harvesting tool or implement. No. 1,133,021; Mar. 23; Gaz. vol. 212; p. 1246.
- Gunnarson, Enoch C., U. S. Navy. Sanitary breathing-shield. No. 1,127,988; Feb. 9; Gaz. vol. 211; p. 505.
- Gunnell, William C., Cadiz, Ohio. Tire-deflating tool. No. 1,155,919; Oct. 5; Gaz. vol. 219; p. 207.
- Gunnness, T. (See Rude, Lester G., assignor.)
- Gunning, Eugene M., assignor to Hemphill Manufacturing Company, Pawtucket, R. I. Pick-block adjustment for knitting-machines. No. 1,129,290; Feb. 23; Gaz. vol. 211; p. 1044.
- Gunning, Frederick, Tallmadge township, Summit county, assignor of one-half to H. E. Bender, Akron, Ohio. Truck. No. 1,136,954; Apr. 27; Gaz. vol. 213; p. 1136.
- Gunsell, Emil J., St. Paul, Minn. Pen-extractor. No. 1,164,506; Dec. 14; Gaz. vol. 221; p. 665.
- Gunter, Thompson, Kansas City, Mo. Silo. No. 1,145,891; July 13; Gaz. vol. 216; p. 339.
- Gunther, Jacob, Bergisch-Gladbach, Germany. Cooling internal-combustion engines. No. 1,124,424; Jan. 12; Gaz. vol. 210; p. 469.
- Gunther, Jakob, Bergisch-Gladbach, Germany. Internal-combustion engine. No. 1,162,769; Dec. 7; Gaz. vol. 221; p. 13.
- Gunther, Martin, Chicago, Ill. Plano-protector. No. 1,130,592; Mar. 2; Gaz. vol. 212; p. 263.
- Günther, Oscar, Opladen, near Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Azo dye. No. 1,159,375; Nov. 9; Gaz. vol. 220; p. 368.
- Günther, Oskar, Leverkusen, near Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Azo dyestuff. No. 1,150,675; Aug. 17; Gaz. vol. 217; p. 943.
- Günther, Oskar A., Chemnitz, assignor to Carl Hamel Actien-Gesellschaft, Schöna, near Chemnitz, Germany. Spinning-tray for cellular-material-spinning machines. No. 1,134,379; Apr. 6; Gaz. vol. 213; p. 107.
- Gunther-Wright Machine Company. (See Rounds, Erdix, assignor.)
- Gunthorp-Warren Printing Company, The. (See Applegate, James W., assignor.)
- Guptill, William A., Maidstone, Vt. Rail tie and fastener. No. 1,134,737; Apr. 6; Gaz. vol. 213; p. 239.
- Gurinian, V. G. (See Sample, Henry C., assignor.)
- Gurney, Albert J., Herrin, Ill. Automatic railway-switch. No. 1,124,892; Jan. 12; Gaz. vol. 210; p. 619.
- Gurney, Albert J., Herrin, Ill. Gate-operating mechanism. No. 1,141,627; June 1; Gaz. vol. 215; p. 192.
- Gurney, Albert J., Herrin, Ill. Automatic railway switch. No. 1,147,319; July 20; Gaz. vol. 216; p. 858.
- Gurney Ball Bearing Company. (See Gurney, Frederick W., assignor.)

Alphabetical list of patentees—Continued.

- Gurney, Chester S., Chicago, Ill. Means for tightening the cords upon drums. No. 1,165,666; Dec. 28; Gaz. vol. 221; p. 1150.
- Gurney, Edmund, assignor to P. J. Burns, Portland, Oreg. Brickmaking-machine. No. 1,131,506; Mar. 9; Gaz. vol. 212; p. 611.
- Gurney, Edmund assignor to P. J. Burns, Portland, Oreg. Brick-handling machine. No. 1,131,507; Mar. 9; Gaz. vol. 212; p. 612.
- Gurney, Edmund, assignor to P. J. Burns, Portland, Oreg. Brickmaking-machine. No. 1,131,626; Mar. 9; Gaz. vol. 212; p. 652.
- Gurney, Edmund, assignor to P. J. Burns, Portland, Oreg. Brickmaking-machine. No. 1,131,627; Mar. 9; Gaz. vol. 212; p. 653.
- Gurney Electric Elevator Company. (See Le Blanc, Alexis, assignor.)
- Gurney, Frederick W., Jamestown, N. Y., assignor to Gurney Ball Bearing Company. Assembling ball-bearings. No. 1,153,066; Sept. 7; Gaz. vol. 218; p. 248.
- Gurney Heater Manufacturing Company. (See Gurney, William C., assignor.)
- Gurney, William C., Toronto, Ontario, Canada, assignor to Gurney Heater Manufacturing Company, Boston, Mass. Smoke-consuming boiler. No. 1,163,655; Dec. 14; Gaz. vol. 221; p. 366.
- Gury, John B., St. Louis, Mo. Cloth-cutting machine. No. 1,136,126; Apr. 20; Gaz. vol. 213; p. 804.
- Gury, John B., St. Louis, Mo. Grinder for cloth-cutting machines. No. 1,150,265; Aug. 17; Gaz. vol. 217; p. 802.
- Gushurst, Frank D., Cincinnati, Ohio. Bearing. No. 1,133,634; Mar. 30; Gaz. vol. 212; p. 1500.
- Gushwa, Charles, and C. F. Wilsey, Corunna, Ind. Ratchet sleeve-wrench. No. 1,132,257; Mar. 16; Gaz. vol. 212; p. 917.
- Gussner, Arthur W., and L. H. Carufel, Bismarck, N. D. Display-case. No. 1,138,753; May 11; Gaz. vol. 214; p. 400.
- Gustafson, Adolph P., assignor to M. Schulz Co., Chicago, Ill. Device for eliminating lost motion. No. 1,129,483; Feb. 23; Gaz. vol. 211; p. 1112.
- Gustafson, Adolph P., assignor to M. Schulz Co., Chicago, Ill. Mechanical musical instrument. No. 1,133,022; Mar. 23; Gaz. vol. 212; p. 1246.
- Gustafson, Adolph P., assignor to M. Schulz Co., Chicago, Ill. Controller-lever for automatic musical instruments. No. 1,136,955; Apr. 27; Gaz. vol. 213; p. 1136.
- Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Valve-seat for pneumatic apparatus. No. 1,164,088; Dec. 14; Gaz. vol. 221; p. 520.
- Gustafson, Albert W., Jersey City, N. J. Punch-press. No. 1,124,893; Jan. 12; Gaz. vol. 210; p. 639.
- Gustafson, Alfred. (See Frazier and Gustafson.)
- Gustafson, Alfred, Aurora, Ill., assignor, by mesne assignments, to The Welch Manufacturing Company. Display-fixture for garments. No. 1,138,601; May 4; Gaz. vol. 214; p. 306.
- Gustafson, Carl G., Sioux City, Iowa. Angle-cock. No. 1,130,399; Mar. 2; Gaz. vol. 212; p. 194.
- Gustafson, Carl J., assignor, by mesne assignments, to Hendee Manufacturing Company, Springfield, Mass. Starting device for explosive-engines. No. 1,125,842; Jan. 19; Gaz. vol. 210; p. 1011.
- Gustafson, Carl J., Springfield, Mass., assignor to Hendee Manufacturing Company. Saddle for motor-cycles. No. 1,152,172; Aug. 31; Gaz. vol. 217; p. 1560.
- Gustafson, Edwin, assignor to The Paltridge Metal Equipment Company, Chicago, Ill. Metal door. No. 1,153,549; Sept. 14; Gaz. vol. 218; p. 460.
- Gustafson, Elmer J. (See Gustafson, Victor G. and E. J.)
- Gustafson, Justus A., Idaho Springs, Colo. Miner's acetylene-gas lamp. No. 1,142,699; June 8; Gaz. vol. 215; p. 601.
- Gustafson, Victor G. and E. J., Joliet, Ill.; said E. J. Gustafson assignor to said Victor G. Gustafson. Assembling or disassembling device. No. 1,144,471; June 29; Gaz. vol. 215; p. 1312.
- Gustavson, Frank, Wabasha, Minn. Shoe. No. 1,138,557; May 4; Gaz. vol. 214; p. 292.
- Gustavson, Carl L. (See Unglaub, John A., assignor.)
- Gustin, Frank M., Durand, Mich. Window-screen. No. 1,123,276; Jan. 5; Gaz. vol. 210; p. 25.
- Gutenkunst, William, Milwaukee, Wis. Stanchion-supporting frame. No. 1,154,625; Sept. 28; Gaz. vol. 218; p. 894.
- Gütermann & Co. (See Schleifer, Carl, assignor.)
- Guth, Charles G., *et al.* (See Brewington, Henry S., assignor.)
- Guth, Edwin F., St. Louis, Mo. Lighting-fixture. No. 1,146,935; July 20; Gaz. vol. 216; p. 726.
- Guth, Edwin F., St. Louis, Mo. Lamp-receptacle. No. 1,147,717; July 27; Gaz. vol. 216; p. 1026.
- Guth, Edwin F., assignor to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. No. 1,155,805; Oct. 5; Gaz. vol. 219; p. 168.
- Guthardt, Karl, Kiel-Hasse, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Device for regulating the temperature of superheated steam. No. 1,141,956; June 8; Gaz. vol. 215; p. 341.
- Guthman, Eli A., New York, N. Y. Safety-razor. No. 1,146,701; July 13; Gaz. vol. 216; p. 624.
- Guthrie, John K., Perth Road, assignor of one-half to J. P. Henniger, Smiths Falls, Ontario, Canada. Telephone-call recorder. No. 1,123,734; Jan. 5; Gaz. vol. 210; p. 183.
- Guthrie, John M., and H. G. Post, Grove City, Pa. Condensing-lens mount. No. 1,151,008; Aug. 24; Gaz. vol. 217; p. 1115.
- Guthrie, Mary A., executrix, *et al.* (See Burrow, Edgar A., assignor.)
- Guthrie, Nehemiah, Marietta, Okla., and C. L. Johnson, Dallas, Tex. Resilient means for vehicle axle suspension. No. 1,143,699; June 22; Gaz. vol. 215; p. 1015.
- Guthrie, Tracy W., Cleveland, Ohio. Vehicle-wheel. No. 1,146,763; July 13; Gaz. vol. 216; p. 646.
- Gutman, William. (See Garner and Gutman.)
- Gutmann, Charles S., *et al.* (See Negravall, Louis A., assignor.)
- Gutschmidt, Hermann, Jersey City, N. J. Chimney-cowl. No. 1,166,362; Dec. 28; Gaz. vol. 221; p. 1397.
- Gutta Percha and Rubber. (See Coffey, John H. and J. H., Jr., assignors.)
- Gutta Percha and Rubber. (See Coffey, Joseph H., Jr., and J. H., assignors.)
- Gutta Percha and Rubber Limited. (See Coffey, Joseph H. and J. H., Jr., assignors.)
- Gutting, Daniel W., Chicago, Ill. Draft-regulator. No. 1,148,164; July 27; Gaz. vol. 216; p. 1186.
- Guttridge, Homer C., Cullison, Kans. Horse-collar. No. 1,159,665; Nov. 9; Gaz. vol. 220; p. 471.
- Guttridge, Homer C., Cullison, Kans. Horse-collar. No. 1,159,666; Nov. 9; Gaz. vol. 220; p. 471.
- Guy, Frederick M., assignor to The Disco Electric Starter Company, Detroit, Mich. Starter attachment for motor-vehicles. No. 1,130,814; Mar. 9; Gaz. vol. 212; p. 373.
- Guy, John, and J. P. Huycke, Cobourg, Ontario, Canada. Hammer. No. 1,144,035; June 22; Gaz. vol. 215; p. 1132.
- Guy, Samuel L., Tangipahoa, La. Letter-holder. No. 1,133,280; Mar. 30; Gaz. vol. 212; p. 1373.
- Guyer, Edward H., Rock Island, Ill. Combined typewriter and computing-machine. No. 1,137,754; May 4; Gaz. vol. 214; p. 11.
- Guyer, Edward H., Rock Island, Ill. Registering mechanism. No. 1,160,281; Nov. 16; Gaz. vol. 220; p. 743.
- Guyer, James B., New York, N. Y. Signal control. No. 1,164,507; Dec. 14; Gaz. vol. 221; p. 666.
- Guyot, Arthur F., Attleboro, Mass. Making buttons. No. 1,147,320; July 20; Gaz. vol. 216; p. 858.
- Guyot, Eugene A., Issy-les-Moulineaux, France. Self-starter. No. 1,128,442; Feb. 16; Gaz. vol. 211; p. 711.
- Guzmán, M. Ramón, Tegucigalpa, Honduras. Cryptographic apparatus. No. 1,152,808; Sept. 7; Gaz. vol. 218; p. 157.
- Gwózdź, Bronisław, Schlachtensee, near Berlin, Germany. Thermotelephone. No. 1,135,686; Apr. 13; Gaz. vol. 213; p. 611.
- Gwózdź, Bronisław, Schöneiche, near Berlin, Germany. Thermic telephone. No. 1,135,687; Apr. 13; Gaz. vol. 213; p. 612.
- Gwózdź, Bronisław, Schöneiche, near Berlin, Germany. Thermo-telephone or the like. No. 1,152,627; Sept. 7; Gaz. vol. 218; p. 91.
- Gwynn, Albert R., Phoenix, Ariz. Gasolene-filter. No. 1,137,480; Apr. 27; Gaz. vol. 213; p. 1327.
- Gyllstrom, Knut G., Richmond Hill, N. Y. Insect-capturing apparatus. No. 1,144,358; June 29; Gaz. vol. 215; p. 1274.
- Gyro Motor Company, The. (See Berliner and Chapman, assignors.)
- Gyro Motor Company. (See Moore, Robert S., assignor.)
- Gyro Motor Company. (See Moore and Simmons, assignors.)
- Gyro Motor Company, The. (See Palmer, Herbert R., assignor.)
- H. Brinton Company. (See Ames, Elmer U., assignor.)
- H. Franke Steel Range Company, The. (See Ahrens, Henry A., assignor.)
- H. Koppers Company. (See Koppers, Heinrich, assignor.)
- H. Koppers Company. (See McIntire, Charles V., assignor.)
- H. Mueller Manufacturing Company. (See Herron, Harry P., assignor.)
- H. Mueller Manufacturing Company. (See Mueller, Robert, assignor.)
- H. Mueller Manufacturing Company, The. (See Mueller and Schuermann, assignors.)
- H. Mueller Mfg. Co. (See Mueller, Philip, assignor.)
- H. Ward Leonard, Incorporated. (See Leonard, Harry W., assignor.)
- H. A. Crane & Bro. (See Crane, Edward F., assignor.)
- H. A. P. Cooking Utensil Mfg. Co. (See Pagnette, Herman A., assignor.)
- H. B. Rouse & Co. (See Rouse, Harry B., assignor.)
- H. B. Sherman Manufacturing Company. (See Andrews, Herbert B., assignor.)
- H. B. Smith Company, The. (See Reed, Richard D., assignor.)
- H. C. Hart Manufacturing Company, The. (See Hart, Hubert C., assignor.)

Alphabetical list of patentees—Continued.

- H. C. Red Label Chemical Company. (See Halman, Isador L., assignor.)
- H. D. Smith & Company, The. (See Thomson, William S., assignor.)
- H. G. Davis Manufacturing Company, The. (See Davis, Harry G., assignor.)
- H. H. Franklin Manufacturing Company. (See Brown, William H., assignor.)
- H. H. Franklin Manufacturing Company. (See Wilkinson, John, assignor.)
- H. & H. Patent-Developing Company. (See Hebern, Edward H., assignor.)
- H. J. Keith Company. (See Galusha, Albert L., assignor.)
- H. J. Packer & Company. (See Walker and Hay, assignors.)
- H. K. Mulford Company. (See Furness, William H., assignor.)
- H. K. Mulford Company. (See Pittenger, Paul S., assignor.)
- H. L. Judd & Company. (See Lathrop, Frank L., assignor.)
- H. O. Canfield Co., The. (See Stephen, David, assignor.)
- H. O. Wilbur & Sons. (See Wilbur, Lawrence H., assignor.)
- H. P. Patents and Processes Company. (See Featherstone, Willard B., assignor.)
- H. P. Patents and Processes Company. (See Hochstetter, Frederick W., assignor.)
- H. T. Paiste Company. (See Paiste, Henry T., assignor.)
- H. T. Paiste Company. (See Webb, Wilmer M., assignor.)
- H. W. Butterworth & Sons Company. (See Brehmer, Herman C., assignor.)
- H. W. Butterworth & Sons Company. (See Foster, John T., assignor.)
- H. W. Johns-Manville Company. (See Christenson, George, assignor.)
- H. W. Johns-Manville Company. (See Colburn, Charles P., assignor.)
- H. W. Johns-Manville Company. (See Farrand, Albert C., assignor.)
- H. W. Johns-Manville Company. (See Headson, Frank A., assignor.)
- H. W. Johns-Manville Company. (See Jewett, Franc J., assignor.)
- H. W. Johns-Manville Company. (See Massa, Robert F., assignor.)
- H. W. Johns-Manville Company. (See Webb, Jervis B., assignor.)
- Haaf, Ernst, Donauerschlingen, Germany. Elastic heel-protector. No. 1,125,019; Jan. 12; Gaz. vol. 210; p. 683.
- Haag, Charles H. (See Dunnebacke and Haag.)
- Haag, William L., Lansing, Mich. Driver for anchor-plates. No. 1,135,013; Apr. 13; Gaz. vol. 213; p. 377.
- Haagn, Ernst, assignor to Firm of W. C. Heraeus, G. m. b. H., Hanau-on-the-Main, Germany. Thermostatic regulating device. No. 1,123,277; Jan. 5; Gaz. vol. 210; p. 26.
- Haaker, Edwin A., Englewood Cliffs, N. J. Rubber tire. No. 1,162,158; Nov. 30; Gaz. vol. 220; p. 1497.
- Haas, Conrad E., Le Mars, Iowa. Border-strip for walks, roads, and the like. No. 1,139,515; May 18; Gaz. vol. 214; p. 704.
- Haas, Cyrus A., St. Louis, Mo. Carbureter. No. 1,120,864; Mar. 2; Gaz. vol. 212; p. 11.
- Haas, Edward, and A. Heck, Springfield, Mass. Wrapping-machine. No. 1,159,934; Nov. 9; Gaz. vol. 220; p. 569.
- Haas, Ferdinand. (See Geldermann and Haas.)
- Haas, Herbert, San Francisco, Cal. Converter. No. 1,123,868; Jan. 5; Gaz. vol. 210; p. 229.
- Haas, Herbert, San Francisco, Cal. Extracting iron from its ores. No. 1,156,775; Oct. 12; Gaz. vol. 219; p. 530.
- Haas, Hermann, Lennep, Germany. Cloth-shearing machine. No. 1,147,088; July 20; Gaz. vol. 216; p. 779.
- Haas, Lambert, Vienna, Austria-Hungary. Deodorizing waste gases. No. 1,144,193; June 22; Gaz. vol. 215; p. 1188.
- Haas, Ludwig F. C., Lancaster, Pa. Sole-protector for boots and shoes. No. 1,160,162; Nov. 16; Gaz. vol. 220; p. 702.
- Haas, Ludwig F. C., and E. Jeheber, Lancaster, Pa. Mechanically-operated dress-form. No. 1,134,844; Apr. 6; Gaz. vol. 213; p. 274.
- Haas, Morris, New York, N. Y. Red-spring. No. 1,144,123; June 22; Gaz. vol. 215; p. 1163.
- Haas, Philip, Dayton, Ohio. Water-closet valve. No. 1,142,092; June 8; Gaz. vol. 215; p. 391.
- Haas, Philip, Dayton, Ohio. Flushing-valve. No. 1,143,384; June 15; Gaz. vol. 215; p. 884.
- Haas, William, *et al.* (See Deady and Holland, assignors.)
- Haase, John C., Fairbault, Minn. Piano-bench. No. 1,159,215; Nov. 2; Gaz. vol. 220; p. 281.
- Haase, Leo G., Pasadena, Cal. Molding-machine. No. 1,156,358; Oct. 12; Gaz. vol. 219; p. 383.
- Haban, Valent C., Benwood, W. Va. Pipe-wrench. No. 1,163,233; Dec. 7; Gaz. vol. 221; p. 174.
- Habeln, John, Kenosha, Wis. Credit filing system. No. 1,164,344; Dec. 14; Gaz. vol. 221; p. 608.
- Haber, Fritz, Berlin, C. Bosch, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing ammonia. No. 1,149,510; Aug. 10; Gaz. vol. 217; p. 467.
- Haberkorn, Theodore H., Denver, Colo. Gaseous-fuel heater and mixer for internal-combustion engines. No. 1,143,902; June 22; Gaz. vol. 215; p. 1084.
- Haberl, Paul A., and E. F. Warren, Denver, Colo. Fly-rod tip. No. 1,149,131; Aug. 3; Gaz. vol. 217; p. 226.
- Haberle, John B., South Bend, Ind., and J. B. Stryker, Lansdale, Pa., assignors to Perkins Glue Company. Glue-spreading machine. No. 1,143,385; June 15; Gaz. vol. 215; p. 884.
- Haberstick, Peter F., Wheeling, W. Va. Automobile accessory. No. 1,144,540; June 29; Gaz. vol. 215; p. 1335.
- Hachmeister, John, Covington, Ky. Pari mutuel machine. No. 1,159,493; Nov. 9; Gaz. vol. 220; p. 410.
- Hack, Peter F. S., Noudorf, Saskatchewan, Canada. Broom. No. 1,161,308; Nov. 23; Gaz. vol. 220; p. 1154.
- Hackerson, Thomas, Newark, Ill. Tent. No. 1,130,728; Mar. 9; Gaz. vol. 212; p. 343.
- Hackett, Charles H., and T. W. Morgan, assignors to W. W. Marsh, Waterloo, Iowa. Device for use in cleaning disks of centrifugal separators. No. 1,127,435; Feb. 9; Gaz. vol. 211; p. 310.
- Hackett, Harry C., assignor to two-thirds to G. W. Anderson and J. P. Fitzgerald, Kansas City, Mo. Shipping-case for eggs. No. 1,153,620; Sept. 14; Gaz. vol. 218; p. 484.
- Hackett, Paul J., Seattle, assignor to Universal High Power Telephone Company, King county, Wash. Sound-amplifying device. No. 1,149,822; Aug. 10; Gaz. vol. 217; p. 582.
- Hackett, Paul J., Seattle, assignor to Universal High Power Telephone Company, King county, Wash. Universal sound-transmitting means. No. 1,149,979; Aug. 10; Gaz. vol. 217; p. 638.
- Hackett, Paul J., Seattle, assignor to Universal High Power Telephone Company, King county, Wash. Universal sound-transmitting means. No. 1,156,867; Oct. 12; Gaz. vol. 219; p. 563.
- Hacking, Chester, Pawtucket, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Key-seating machine. No. 1,132,179; Mar. 16; Gaz. vol. 212; p. 887.
- Hackmann, William B., Dixon, Cal. Oil-burner. No. 1,132,471; Mar. 16; Gaz. vol. 212; p. 993.
- Hackney, James M. (See Tate, Robert L., assignor.)
- Hackney, Joseph M. (See Hackney, William L. and J. M.)
- Hackney, Leslie S. (See Froelich, John, assignor.)
- Hackney, Leslie S., St. Paul, Minn. Ventilating apparatus. No. 1,138,470; May 4; Gaz. vol. 214; p. 264.
- Hackney, Leslie S., St. Paul, Minn. Street-sweeper. No. 1,152,726; Sept. 7; Gaz. vol. 218; p. 127.
- Hackney, Leslie S., St. Paul, Minn. Ventilating device. No. 1,153,067; Sept. 7; Gaz. vol. 218; p. 249.
- Hackney, William L. and J. M., St. Paul, Minn. Lug-fastener for traction-wheels. No. 1,165,403; Dec. 28; Gaz. vol. 221; p. 1058.
- Hackstedde, Herbert, Cincinnati, Ohio. Loaf-forming machine. No. 1,126,449; Jan. 26; Gaz. vol. 210; p. 1262.
- Hada, Joseph. (See Barabás and Hada.)
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stitch-rubbing machine. No. 1,124,425; Jan. 12; Gaz. vol. 210; p. 470.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,134,262; Apr. 6; Gaz. vol. 213; p. 66.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,137,608; Apr. 27; Gaz. vol. 213; p. 1369.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon boots and shoes. No. 1,147,017; July 20; Gaz. vol. 216; p. 755.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Trimming-machine. No. 1,158,681; Nov. 2; Gaz. vol. 220; p. 95.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,160,163; Nov. 16; Gaz. vol. 220; p. 703.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,160,164; Nov. 16; Gaz. vol. 220; p. 703.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Resurfacing mechanism. No. 1,161,857; Nov. 30; Gaz. vol. 220; p. 1391.
- Hadaway, John B., Duxbury, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon insoles. No. 1,120,990; Feb. 2; Gaz. vol. 211; p. 115.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater. No. 1,131,060; Mar. 9; Gaz. vol. 212; p. 457.
- Hadaway, William S., Jr., New Rochelle, N. Y. Curling-iron heater. No. 1,146,758; July 13; Gaz. vol. 216; p. 644.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater. No. 1,150,426; Aug. 17; Gaz. vol. 217; p. 856.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric iron. No. 1,150,428; Aug. 17; Gaz. vol. 217; p. 857.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater. No. 1,150,429; Aug. 17; Gaz. vol. 217; p. 857.

Alphabetical list of patentees—Continued.

- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater. No. 1,154,111; Sept. 21; Gaz. vol. 218; p. 689.
- Hadaway, William S., Jr., New Rochelle, N. Y. Humidifier. No. 1,154,113; Sept. 21; Gaz. vol. 218; p. 690.
- Hadaway, William S., Jr., New Rochelle, N. Y. Stove. No. 1,154,114; Sept. 21; Gaz. vol. 218; p. 690.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater. No. 1,154,115; Sept. 21; Gaz. vol. 218; p. 690.
- Hadaway, William S., Jr., New Rochelle, N. Y. Terminal for electric apparatus. No. 1,154,626; Sept. 28; Gaz. vol. 218; p. 894.
- Hadaway, William S., Jr., New Rochelle, N. Y. Range. No. 1,155,480; Oct. 5; Gaz. vol. 219; p. 55.
- Hadaway, William S., Jr., New Rochelle, N. Y. Regulator for laundry-rolls. No. 1,155,481; Oct. 5; Gaz. vol. 219; p. 55.
- Hadaway, William S., Jr., New Rochelle, N. Y. Heat-regulating system. No. 1,155,482; Oct. 5; Gaz. vol. 219; p. 56.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater. No. 1,155,483; Oct. 5; Gaz. vol. 219; p. 56.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric laundry-roll. No. 1,156,223; Oct. 12; Gaz. vol. 219; p. 336.
- Hadaway, William S., Jr., New York, N. Y. Electric heating device. No. 1,157,100; Oct. 19; Gaz. vol. 219; p. 675.
- Hadaway, William S., Jr., New Rochelle, N. Y. Neutralizer. No. 1,163,656; Dec. 14; Gaz. vol. 221; p. 366.
- Hadaway, William S., Jr., New Rochelle, N. Y. Vapor-heater. No. 1,163,657; Dec. 14; Gaz. vol. 221; p. 367.
- Hadaway, William S., Jr., New Rochelle, N. Y. Socket. No. 1,163,658; Dec. 14; Gaz. vol. 221; p. 367.
- Hadaway, William S., Jr., New Rochelle, N. Y. Producing electric heaters. No. 1,163,659; Dec. 14; Gaz. vol. 221; p. 367.
- Hadaway, William S., Jr., New York, N. Y. Electric-heating system. No. 1,142,771; June 8; Gaz. vol. 215; p. 627.
- Hadaway, William S., Jr., New York, N. Y. Electric iron. No. 1,150,427; Aug. 17; Gaz. vol. 217; p. 856.
- Hadaway, William S., Jr., New Rochelle, and E. N. Light-foot, New York, N. Y. Electric heater. No. 1,145,988; July 13; Gaz. vol. 216; p. 374.
- Hadaway, William S., Jr., New Rochelle, and J. Amon, New York, N. Y. Socket for electric heater units. No. 1,154,112; Sept. 21; Gaz. vol. 218; p. 689.
- Hadaway, William S., Jr., East Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Resistance element. No. 1,158,487; Nov. 2; Gaz. vol. 220; p. 26.
- Hadaway, William S., Jr., East Orange, N. J., and E. E. Rose, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Plug-switch. No. 1,150,112; Aug. 17; Gaz. vol. 217; p. 746.
- Hadaway, William S., Jr., East Orange, N. J., and E. E. Rose, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrically-heated boiler. No. 1,158,486; Nov. 2; Gaz. vol. 220; p. 26.
- Hadaway, William S., Jr., New Rochelle, N. Y., and E. E. Rose, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical apparatus. No. 1,158,488; Nov. 2; Gaz. vol. 220; p. 27.
- Haddock, Carl, assignor of one-third to W. Countryman and one-third to G. Stanton, Gloversville, N. Y. Railway-tie. No. 1,148,585; Aug. 3; Gaz. vol. 217; p. 37.
- Hadden Automatic Sprinkler Company. (See Hadden and Johnson, assignors.)
- Hadden, George W., Kansas City, Mo. Wall-molding apparatus. No. 1,162,913; Dec. 7; Gaz. vol. 221; p. 62.
- Hadden, John S., Huntington Park, and F. H. Johnson, South Pasadena, assignors to Hadden Automatic Sprinkler Company, Los Angeles, Cal. System and means of control. No. 1,156,841; Oct. 12; Gaz. vol. 219; p. 553.
- Hadden, John S., Huntington Park, and F. H. Johnson, South Pasadena, assignors to Hadden Automatic Sprinkler Company, Los Angeles, Cal. System and means of control. No. 1,163,818; Dec. 14; Gaz. vol. 221; p. 426.
- Haddigan, Michael J., assignor of two-fourths to J. R. Murphy and one-fourth to F. D. Scherer, Peoria, Ill. Machine for dressing the interior of barrels. No. 1,126,450; Jan. 26; Gaz. vol. 210; p. 1263.
- Hadfield, Robert A., Westminster, A. G. M. Jack, Sheffield, and I. B. Milne, Totton, England. Manufacture of armor-piercing projectiles. No. 1,139,412; May 11; Gaz. vol. 214; p. 632.
- Hadford, John, Waukon, Wash. Agricultural implement. No. 1,127,233; Feb. 2; Gaz. vol. 211; p. 201.
- Hadley, Art, Providence, R. I. Cuff-button. No. 1,123,735; Jan. 5; Gaz. vol. 210; p. 183.
- Hadley, Art, Providence, R. I. Bracelet. No. 1,140,677; May 25; Gaz. vol. 214; p. 1147.
- Hadley, Art, Providence, R. I. Bracelet. No. 1,165,872; Dec. 28; Gaz. vol. 221; p. 1221.
- Hadley, Artemus N., deceased, Indianapolis, Ind.; D. A. Cox, administrator. Corn cutting and shocking machine. No. 1,145,863; July 6; Gaz. vol. 216; p. 311.
- Hadley, Enos W., and H. W. Gossett, Danville, Ind. Concrete-post mold. No. 1,130,507; Mar. 2; Gaz. vol. 212; p. 234.
- Hadley, Frank O., et al. (See Carpenter, Mason P., assignor.)
- Hadley, George T., San Francisco, Cal. Reinforcement of gas-mantles of the incandescent type for illuminating purposes. No. 1,123,869; Jan. 5; Gaz. vol. 210; p. 229.
- Hadley, Jared C. (See Edgar, Robert A., assignor.)
- Haefely, Emil, Basel, Switzerland, assignor to Westinghouse Electric and Manufacturing Company. Electrical transformer. No. 1,130,268; Mar. 2; Gaz. vol. 212; p. 148.
- Haefely, Emil, Basel, Switzerland, assignor to Westinghouse Electric and Manufacturing Company. Electrical transformer. No. 1,130,269; Mar. 2; Gaz. vol. 212; p. 149.
- Haegeler, Theodor, Cannstatt, Germany. Carbureter. No. 1,152,173; Aug. 31; Gaz. vol. 217; p. 1560.
- Häemmerle, Gebhard. (See Fessmann and Häemmerle.)
- Haepfner, John F., assignor of one-half to A. M. Smith, East St. Louis, Ill. Spring-tire. No. 1,126,631; Jan. 26; Gaz. vol. 210; p. 1330.
- Haese, William C., Milwaukee, Wis. Track-sander spout. No. 1,143,824; June 22; Gaz. vol. 215; p. 1058.
- Haeseler, Charles H., Philadelphia, Pa. Drilling-machine. No. 1,146,870; July 20; Gaz. vol. 216; p. 702.
- Haettel, Frank, Columbus, Ohio. Molder's flask. No. 1,135,578; Apr. 13; Gaz. vol. 213; p. 573.
- Hafer, Edward C., Chambersburg, Pa. Fire-tube-boiler blower. No. 1,151,177; Aug. 24; Gaz. vol. 217; p. 1173.
- Haferkamp, August, Wallis, Tex. Moldboard and land-side plow and gage-wheel. No. 1,148,838; Aug. 3; Gaz. vol. 217; p. 127.
- Haff, Maximilian M. (See Willson and Haff.)
- Haff, Maximilian M., and T. L. Willson, Ottawa, Ontario, assignors to Southern Investment Co. of Canada Ltd., Montreal, Canada. Drying and enriching phosphate material and the like. No. 1,161,473; Nov. 23; Gaz. vol. 220; p. 1213.
- Hafner, Charles, assignor to Kinkead Manufacturing Company, Boston, Mass. Appliance for aligning and leveling shafting. No. 1,134,125; Apr. 6; Gaz. vol. 213; p. 15.
- Hafner, George J., Rochester, N. Y., assignor to United Printing Machinery Company, Jamaica Plain, Mass. Bronzing-machine. No. 1,135,788; Apr. 13; Gaz. vol. 213; p. 646.
- Haga, Francis O., Zanesville, Ohio. Bevel-square. No. 1,134,845; Apr. 6; Gaz. vol. 213; p. 274.
- Hagadone, Clinton A., Western Springs, Ill., assignor to International Harvester Company of New Jersey. Grain-harvester. No. 1,159,888; Nov. 9; Gaz. vol. 220; p. 552.
- Hagan, Elijah J., Brush, Colo. Sanitary poultry-roost. No. 1,154,392; Sept. 21; Gaz. vol. 218; p. 786.
- Hagan, Francis D. (See Fairies, Elisha J., assignor.)
- Hagan, Frederick V., Flitting, Nev. Hay-baler. No. 1,123,521; Jan. 5; Gaz. vol. 210; p. 110.
- Hagan, George J., Pittsburgh, Pa. Drying apparatus. No. 1,126,197; Jan. 26; Gaz. vol. 210; p. 1174.
- Hagan, Joseph B., Jr. (See Beach and Hagan.)
- Hagan, Louis T., Winchester, Ky. Belt-shifter. No. 1,160,881; Nov. 16; Gaz. vol. 220; p. 955.
- Hagar, Franklin W., Nashville, Tenn. Carbureter. No. 1,155,232; Sept. 28; Gaz. vol. 218; p. 1100.
- Hagarty, Thomas F., New York, N. Y. Plating-machine. No. 1,154,857; Sept. 28; Gaz. vol. 218; p. 971.
- Hage, Oscar. (See Hage, Robert R., assignor.)
- Hage, Robert R., assignor of one-half to O. Hage, Culbertson, Mont. Liquid-dispensing apparatus. No. 1,165,667; Dec. 28; Gaz. vol. 221; p. 1151.
- Hagearty, John W., New Britain, Conn. Percolator. No. 1,132,472; Mar. 16; Gaz. vol. 212; p. 994.
- Hagel, August, St. Paul, Minn. Flooring-driver. No. 1,161,207; Nov. 23; Gaz. vol. 220; p. 1118.
- Hagel, Joseph, Chicago, Ill. Attachment for vehicles. No. 1,125,516; Jan. 19; Gaz. vol. 210; p. 895.
- Hagelstein, Christian H., assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine shuttle. No. 1,151,945; Aug. 31; Gaz. vol. 217; p. 1481.
- Hagelstein, Christian H. T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-finishing machine. No. 1,124,894; Jan. 12; Gaz. vol. 210; p. 639.
- Hageman, Louis F., Jr., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Sales-check holder. No. 1,157,217; Oct. 19; Gaz. vol. 219; p. 716.
- Hagemann, Karl, Leverkusen, near Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Monoazo dyestuffs. No. 1,127,234; Feb. 2; Gaz. vol. 211; p. 201.
- Hagemann, Otto C., Yonkers, assignor to C. A. Dieterich, Mount Vernon, N. Y. Refining oils and fats. No. 1,147,392; July 20; Gaz. vol. 216; p. 887.
- Hagen, Arthur T., and G. Binder, Rochester, N. Y., assignors to American Laundry Machinery Company, Cincinnati, Ohio. Collar-tipping machine. No. 1,144,541; June 29; Gaz. vol. 215; p. 1335.
- Hagen, Frank, Breese, Ill. Combined match-box, cigar-rest, and ash-tray. No. 1,137,481; Apr. 27; Gaz. vol. 213; p. 1327.

- Hagen, William F., and W. F. Budenbach, Scranton, Pa. Cuspidor. No. 1,129,976; Mar. 2; Gaz. vol. 212; p. 48.
- Hagenbach, Rudolf. (See Kränzlein, Hagenbach, and Giloy.)
- Hageness, Albin K., Eleya, Wis. Wire-reeling apparatus. No. 1,144,840; June 29; Gaz. vol. 215; p. 1439.
- Hagenmüller, Elias, Fürth, Germany. Device for the automatic sharpening of the perforated disks and cross-knives of cutting sets, &c. No. 1,165,873; Dec. 28; Gaz. vol. 221; p. 1221.
- Hager, August E., Toronto, Ontario, Canada. Elevator-gate and gate-operating mechanism. No. 1,135,279; Apr. 13; Gaz. vol. 213; p. 467.
- Hager, Henry F., Chicago, Ill. Bed-spring fabric. No. 1,161,661; Nov. 23; Gaz. vol. 220; p. 1276.
- Hager, Henry F., Chicago, Ill. Bed-spring fabric. No. 1,161,662; Nov. 23; Gaz. vol. 220; p. 1277.
- Hager, William A., Texhoma, Okla. Animal-poke. No. 1,157,529; Oct. 19; Gaz. vol. 219; p. 827.
- Hagerstrom, John A., assignor to Victor Typewriter Company, New York, N. Y. Paper-guiding device for type-writing machines. No. 1,126,451; Jan. 26; Gaz. vol. 210; p. 1263.
- Hagerly, Almon S., Peoria, Ill. Grinding-mill. No. 1,164,808; Dec. 21; Gaz. vol. 221; p. 811.
- Hagerty, Charles A., Los Angeles, Cal. Game apparatus. No. 1,158,865; May 11; Gaz. vol. 214; p. 441.
- Hazey, Gilbert M., Monroe, Wash. Wrench. No. 1,132,843; Mar. 23; Gaz. vol. 212; p. 1180.
- Hagey, James C., assignor to The Cable Company, Chicago, Ill. Tracker-board and music-sheet. No. 1,155,565; Oct. 5; Gaz. vol. 219; p. 83.
- Hagg, Virgil B., Los Angeles, Cal. Filter. No. 1,157,776; Oct. 26; Gaz. vol. 219; p. 973.
- Haggard, George B., Waycross, Ga. Fireplace. No. 1,150,029; Aug. 17; Gaz. vol. 217; p. 716.
- Haggard and Marcusson Company. (See Anderson, William B., assignor.)
- Haggard, Robert H., assignor of one-half to C. H. Fuerhoff, St. Charles, Mo. Packing-ring. No. 1,151,265; Aug. 24; Gaz. vol. 217; p. 1203.
- Haggbloom, Leonard, Los Angeles, Cal. Initial sparkler for gas-engine magnetos. No. 1,137,609; Apr. 27; Gaz. vol. 213; p. 1370.
- Hagger, Joseph B., Baltimore, Md. Repair pipe-coupling. No. 1,145,582; July 6; Gaz. vol. 216; p. 211.
- Hagerty, John D., Sussex, N. J., and F. R. Monroe, Middletown, N. Y. Cleansing apparatus. No. 1,147,164; July 20; Gaz. vol. 216; p. 805.
- Haggin, Louis T., et al., executors. (See Kendall, Edward D., assignor.)
- Haggin, Margaret V., et al., executors. (See Kendall, Edward D., assignor.)
- Haglund, Gustaf, and A. Grønningsæter, Christianssand, Norway. Apparatus for continuous smelting of sulfid ores. No. 1,163,234; Dec. 7; Gaz. vol. 221; p. 175.
- Hagman, John, New York, N. Y. Portable building. No. 1,160,882; Nov. 16; Gaz. vol. 220; p. 956.
- Hagman, William J., Philadelphia, Pa. Heat-retaining system for engines. No. 1,128,133; Feb. 9; Gaz. vol. 211; p. 556.
- Hagman, William J., and E. H. Wray, Philadelphia, Pa. Boring-mill. No. 1,141,871; June 1; Gaz. vol. 215; p. 272.
- Haguy, Lawrence, San Jose, Ill. Hog-oiler. No. 1,129,977; Mar. 2; Gaz. vol. 212; p. 48.
- Hagstrom, Carl J., Glen Cove, N. Y. Door or window adjuster. No. 1,125,517; Jan. 19; Gaz. vol. 210; p. 896.
- Hague, Alfred G., assignor to O. R. Savage, Des Moines, Iowa. Silo. No. 1,143,954; June 22; Gaz. vol. 215; p. 1102.
- Hague, Charles E. (See Leich and Hague.)
- Hague, Charles E., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Telephone system. No. 1,128,777; Feb. 16; Gaz. vol. 211; p. 826.
- Hague, John O., Brookston, Ind. Vehicle-spring. No. 1,135,577; Apr. 13; Gaz. vol. 213; p. 573.
- Hahl, Hans J., Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Oxquinolin compounds. No. 1,129,865; Mar. 2; Gaz. vol. 212; p. 11.
- Hahn, Frank M., Doland, S. D. Door-hanger. No. 1,144,901; June 29; Gaz. vol. 215; p. 1460.
- Hahn, Frank R., Decatur, Ill. Building construction. No. 1,165,668; Dec. 28; Gaz. vol. 221; p. 1151.
- Hahn, John N., Cleveland, Ohio. Machine for facing corrugated paper. No. 1,151,631; Aug. 31; Gaz. vol. 217; p. 1390.
- Hahn, John N., Cleveland, Ohio. Packing-case for fragile articles. No. 1,156,074; Oct. 12; Gaz. vol. 219; p. 287.
- Hahn, John N., Cleveland, Ohio. Machine for facing corrugated paper. No. 1,161,208; Nov. 23; Gaz. vol. 220; p. 1118.
- Hahn, Martin L. (See Daugherty and Hahn.)
- Hahn, Max, Zwickau, Germany. Device for skinning scalded almonds. No. 1,126,991; Feb. 2; Gaz. vol. 211; p. 115.
- Hahnemann, Paul R., Mount Vernon, N. Y. Clutch. No. 1,126,452; Jan. 26; Gaz. vol. 210; p. 1264.
- Hahnemann, Walter, and H. Hecht, Kiel, Germany. Submarine signaling. No. 1,133,635; Mar. 30; Gaz. vol. 212; p. 1500.
- Hahnenkamm, Wilhelm, Sindlingen, near Höchst-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arylated naphthylamin sulfonic acids and making same. No. 1,125,311; Jan. 19; Gaz. vol. 210; p. 823.
- Haigh, William, Baltimore, Md. Package. No. 1,153,221; Sept. 14; Gaz. vol. 218; p. 340.
- Haight, Louis P. (See Barr, Frank M., assignor.)
- Haight, William H., Northfield, Minn. Hammer. No. 1,159,583; Nov. 9; Gaz. vol. 220; p. 442.
- Hallstone, John G., and C. Dietz, Chicago, Ill. Rail-supporting structure. No. 1,139,966; May 18; Gaz. vol. 214; p. 863.
- Halmerl, Otto J., Spokane, Wash. Whirling toy. No. 1,146,425; July 13; Gaz. vol. 216; p. 527.
- Hain, Leon, assignor of one-half to J. Nelson, Philadelphia, Pa. Detachable heel-section. No. 1,134,263; Apr. 6; Gaz. vol. 213; p. 67.
- Hainer Bookkeeping Machine Company. (See Hainer, Whitfield J., assignor.)
- Hainer, Whitfield J., assignor to Hainer Bookkeeping Machine Company, Providence, R. I. Autographic register. No. 1,143,386; June 15; Gaz. vol. 215; p. 885.
- Haines, Edward J., Akron, Ohio. Collapsible box. No. 1,158,046; Oct. 26; Gaz. vol. 219; p. 1069.
- Haines, George A., et al. (See Pearson, James H., assignor.)
- Haines, Harold W. (See Abraham and Haines.)
- Haines, Iven L., assignor of one-fourth to J. Motznik and one-fourth to R. D. Motznik, Cuyahoga Falls, Ohio. Friction-clutch. No. 1,134,193; Apr. 6; Gaz. vol. 213; p. 40.
- Haines, John H. J., New York, N. Y. Machine for recording and reproducing sound. No. 1,158,917; Nov. 2; Gaz. vol. 220; p. 178.
- Hainline, Frank L., Kansas City, Mo. Attachment for blackboards. No. 1,164,809; Dec. 21; Gaz. vol. 221; p. 811.
- Hains, Edson, Bedford, Ohio. Beehive. No. 1,131,834; Mar. 16; Gaz. vol. 212; p. 764.
- Hair, Benjamin M., Chicago, Ill. Vending device. No. 1,156,140; Oct. 12; Gaz. vol. 219; p. 310.
- Hairlight Company, The. (See Damon, Russell H., assignor.)
- Haisley, Charles H., Muncie, Ind. Wire-fence machine. No. 1,163,404; Dec. 7; Gaz. vol. 221; p. 234.
- Haiss, George, New York, N. Y. Wagon-loading apparatus. No. 1,132,338; Mar. 16; Gaz. vol. 212; p. 946.
- Haizmann, Friedrich, Stuttgart, Germany. Jack. No. 1,132,339; Mar. 16; Gaz. vol. 212; p. 947.
- Hajas, Alexander, Brantford, Ontario, Canada. Stretcher. No. 1,129,089; Feb. 23; Gaz. vol. 211; p. 973.
- Hajduk, John, Fayette City, Pa. Vehicle jack and turntable. No. 1,139,516; May 18; Gaz. vol. 214; p. 704.
- Hajek, William F., Chicago, Ill. Safety device for stoves. No. 1,141,335; June 1; Gaz. vol. 215; p. 88.
- Hakeman, Edgar G., Hartwick, Iowa. Sliding gate. No. 1,149,823; Aug. 10; Gaz. vol. 217; p. 582.
- Hakes, Hudson W., Millbury, Mass. Loom-shuttle. No. 1,129,193; Feb. 23; Gaz. vol. 211; p. 1009.
- Hakey, Eli, Swanton, Vt. Clamp attachment for wrenches. No. 1,157,383; Oct. 19; Gaz. vol. 219; p. 776.
- Halberg Automatic Press Company. (See Halberg, Mier, and Hodge, assignors.)
- Halberg, Charles W., G. B. Mier, Los Angeles, and A. J. Hodge, Pasadena, assignors to Halberg Automatic Press Company, Los Angeles, Cal. Sheet-feeder. No. 1,161,768; Nov. 23; Gaz. vol. 220; p. 1313.
- Halbert, Fred E., San Diego, Cal. Hat sweat-band. No. 1,153,907; Sept. 21; Gaz. vol. 218; p. 619.
- Halbert, P. F., et al. (See Holsey, Walter R., assignor.)
- Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Electric apparatus for motor-vehicles. No. 1,150,676; Aug. 17; Gaz. vol. 217; p. 944.
- Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Power-transmission mechanism. No. 1,152,504; Sept. 7; Gaz. vol. 218; p. 44.
- Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Power-transmission mechanism. No. 1,165,966; Dec. 28; Gaz. vol. 221; p. 1253.
- Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Power-transmission mechanism. No. 1,165,967; Dec. 28; Gaz. vol. 221; p. 1253.
- Halbleib, Edward A., and F. F. Dorsey, assignors to North East Electric Company, Rochester, N. Y. Storage-battery system. No. 1,164,280; Dec. 14; Gaz. vol. 221; p. 585.
- Halcin, Florian, Conway, N. D. Airship. No. 1,128,603; Feb. 16; Gaz. vol. 211; p. 767.
- Halcin, Stephen, Pisek, N. D. Gear mechanism. No. 1,157,936; Oct. 26; Gaz. vol. 219; p. 1030.
- Haldeen, Martin A., Chicago, Ill. Razor-blade sharpener. No. 1,159,763; Nov. 9; Gaz. vol. 220; p. 508.
- Haldeman, Charles F., assignor to The Silver Manufacturing Company, Salem, Ohio. Enslage-cutter. No. 1,129,349; Feb. 23; Gaz. vol. 211; p. 1064.
- Haldeman, James C., assignor to The Silver Manufacturing Company, Salem, Ohio. Feed-cutter. No. 1,155,353; Oct. 5; Gaz. vol. 219; p. 10.
- Haldeman, Lee S., Marietta, Pa. Stove and furnace grate. No. 1,147,502; July 20; Gaz. vol. 216; p. 925.

Alphabetical list of patentees—Continued.

- Haldenwang, Richard, Jr., Brooklyn, N. Y. Dust-pan. No. 1,135,519; Apr. 13; Gaz. vol. 213; p. 551.
- Haldenwang, Richard, Jr., Brooklyn, N. Y. Brush. No. 1,139,517; May 18; Gaz. vol. 214; p. 705.
- Haldenwang, Richard, Jr., Brooklyn, N. Y. Fan. No. 1,141,957; June 8; Gaz. vol. 215; p. 341.
- Hale, Albert H., Cairo, Ill. Brake. No. 1,153,382; Sept. 14; Gaz. vol. 218; p. 399.
- Hale, David C., Jr., assignor to Hale Garment Machinery Company, Cincinnati, Ohio. Pressing garments. No. 1,148,675; Aug. 3; Gaz. vol. 217; p. 70.
- Hale, Edwin W. (See Johnson and Hale.)
- Hale, Elbert D., assignor to E. D. Hale Manufacturing Company, Clarkston, Wash. Money-changing machine. No. 1,162,051; Nov. 30; Gaz. vol. 220; p. 1459.
- Hale, Frederick M., Bromley, England. Ammunition. No. 1,141,540; June 1; Gaz. vol. 215; p. 162.
- Hale Garment Machinery Company. (See Hale, David C., Jr., assignor.)
- Hale, Harold E., assignor to Tuners' Supply Company, Somerville, Mass. Tuning-hammer. No. 1,160,107; Nov. 9; Gaz. vol. 220; p. 628.
- Hale, Henry S., Philadelphia, Pa. Combined shoe and legging. No. 1,165,874; Dec. 28; Gaz. vol. 221; p. 1222.
- Hale, Henry S., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Metallic sheathing. No. 1,150,594; Aug. 17; Gaz. vol. 217; p. 916.
- Hale, Henry S., assignor to Hale and Kilburn Company, Philadelphia, Pa. Metallic sheathing. No. 1,164,643; Dec. 21; Gaz. vol. 221; p. 753.
- Hale, James E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Tire. No. 1,145,063; July 6; Gaz. vol. 216; p. 32.
- Hale, James H., assignor of three-eighths to T. J. Farley, three-eighths to S. T. Whitaker, and one-fourth to J. M. Crawford, Columbus, Ga. Shuttle-brush. No. 1,166,204; Dec. 28; Gaz. vol. 221; p. 1341.
- Hale, John F. (See Fitts and Hale.)
- Hale and Kilburn Company. (See Bell, Alfred B., assignor.)
- Hale and Kilburn Company. (See Budd and Ledwinka, assignors.)
- Hale and Kilburn Company. (See Caverly and Bell, assignors.)
- Hale and Kilburn Company. (See Gravell, James H., assignor.)
- Hale and Kilburn Company. (See Hale, Henry S., assignor.)
- Hale and Kilburn Company. (See Kilburn, John E., assignor.)
- Hale and Kilburn Company. (See Olberg, Charles K., assignor.)
- Hale and Kilburn Company. (See Scott, Walter E., assignor.)
- Hale and Kilburn Company. (See Walker, Emery L., assignor.)
- Hale and Kilburn Company. (See Wallace and Bell, assignors.)
- Hale & Kilburn Manufacturing Company, The. (See Fortner, Benjamin F., assignor.)
- Hale and Kilburn Manufacturing Company, The. (See Fortner and Main, assignors.)
- Hale-Kilburn Metal Company. (See Budd, Edward G., assignor.)
- Hale-Kilburn Metal Company. (See Hale, Henry S., assignor.)
- Hale, Lawrence. (See Abbott and Hale.)
- Hale, Leigh E., assignor of one-half to F. C. Bolin, Stockton, Cal. Thermo-electric battery for motor-vehicles. No. 1,134,452; Apr. 6; Gaz. vol. 213; p. 135.
- Hale, Noah, Corpus Christi, Tex. Battery-connector. No. 1,130,162; Mar. 2; Gaz. vol. 212; p. 111.
- Hale, Stephen H., Neodesha, Kans. Gas-mixer. No. 1,127,757; Feb. 9; Gaz. vol. 211; p. 423.
- Hale, Willis L., North Attleboro, Mass. Demountable-rim fastener. No. 1,153,063; Sept. 7; Gaz. vol. 218; p. 249.
- Hales, Edward, West Bromwich, England. Holder for bottles, jars, and other like vessels. No. 1,132,180; Mar. 16; Gaz. vol. 212; p. 888.
- Haley, Johnie B., Java, Va. Wrench. No. 1,136,599; Apr. 20; Gaz. vol. 213; p. 974.
- Haley, Matthew, Barre, Vt. Clamp for lifting stones. No. 1,159,667; Nov. 9; Gaz. vol. 220; p. 471.
- Haley, Robert E., et al. (See Van Vleet, Charles W., assignor.)
- Haley, Thomas H., assignor of one-half to Ballard Drop-Forge Company, Seattle, Wash. Coupling-shoe for tie-bands. No. 1,128,244; Feb. 9; Gaz. vol. 211; p. 593.
- Halfpenny, James M., Juniata, Pa. Safety-tie. No. 1,146,248; July 13; Gaz. vol. 216; p. 466.
- Halkyard Manufacturing Company. (See Wakefield, Edward E., assignor.)
- Hall, Albert E., Plainfield, N. J., and G. H. Fraser, assignors to Automatic Electric Pump Company, New York, N. Y. Electric pump. No. 1,161,385; Nov. 23; Gaz. vol. 220; p. 1182.
- Hall, Alfred J. (See Lundborg and Hall.)
- Hall, Allen E., Philadelphia, Pa. Motor. No. 1,162,052; Nov. 30; Gaz. vol. 220; p. 1459.
- Hall, Alonza C., Richmond, Va. Fishing-rod support. No. 1,131,508; Mar. 9; Gaz. vol. 212; p. 612.
- Hall, Arthur J. (See Simmon and Hall.)
- Hall, Arthur J. (See Storer and Hall.)
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system for electric motors. No. 1,126,198; Jan. 26; Gaz. vol. 210; p. 1174.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,140,901; May 25; Gaz. vol. 214; p. 1226.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system for electric motors. No. 1,143,955; June 22; Gaz. vol. 215; p. 1103.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,157,777; Oct. 26; Gaz. vol. 219; p. 974.
- Hall, Arthur J., and L. G. Riley, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system for electric motors. No. 1,143,956; June 22; Gaz. vol. 215; p. 1103.
- Hall, Benjamin K., Boston, assignor to W. H. Mitchell, Newton, Mass. Turn-table. No. 1,143,538; June 15; Gaz. vol. 215; p. 935.
- Hall, Benjamin K., Boston, assignor to Kim Manufacturing Company, Merrimac, Mass. Shock-absorber. No. 1,148,312; July 27; Gaz. vol. 216; p. 1238.
- Hall, Bicknell, Taunton, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Machine for covering innersoles of the Gern type. No. 1,160,711; Nov. 16; Gaz. vol. 220; p. 898.
- Hall-Borchert Dress Form Co. (See Granger, Frank B., assignor.)
- Hall-Borchert Dress Form Company. (See Bardwell, George W., assignor.)
- Hall-Borchert Dress Form Company. (See Dinn, James F., assignor.)
- Hall, Carl G., Pittsburg, Pa. Combination collar-box. No. 1,132,578; Mar. 23; Gaz. vol. 212; p. 1081.
- Hall, Charles B. (See Adams and Hall.)
- Hall, Charles E. (See Petit, Joseph C., assignor.)
- Hall, Charles G., Haslemere, England. Transfer mechanism. No. 1,135,789; Apr. 13; Gaz. vol. 213; p. 646.
- Hall, Charles I., Mount Vernon, Wash. Automatic crossing-gate. No. 1,143,190; June 15; Gaz. vol. 215; p. 815.
- Hall, Charles T., Buffalo, N. Y. Card-shuffler. No. 1,154,988; Sept. 28; Gaz. vol. 218; p. 1016.
- Hall, Charles W. (See Hall, Walter A. and C. W.)
- Hall, Chester I., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Integrating electricity-meter. No. 1,125,312; Jan. 19; Gaz. vol. 210; p. 823.
- Hall, Chester I., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Circuit-controller. No. 1,137,610; Apr. 27; Gaz. vol. 213; p. 1370.
- Hall, Chester I., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Maximum-demand meter. No. 1,145,835; July 6; Gaz. vol. 216; p. 301.
- Hall, Chester I., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Clock-driven controller. No. 1,156,400; Oct. 12; Gaz. vol. 219; p. 399.
- Hall, Chester I., Chicago, Ill., assignor to Chicago Electric Meter Company. Fan-motor. No. 1,156,901; Oct. 19; Gaz. vol. 219; p. 604.
- Hall, Chester I., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Electric-motor time-controller. No. 1,158,682; Nov. 2; Gaz. vol. 220; p. 96.
- Hall, Clara E., Cincinnati, Ohio. Strip-guide. No. 1,155,920; Oct. 5; Gaz. vol. 219; p. 207.
- Hall, Clarence A., Mount Airy, Pa. Electrolysis. No. 1,163,911; Dec. 14; Gaz. vol. 221; p. 456.
- Hall, David, Wilkinsburg, Pa. Superimposed emery-wheel and grindstone. No. 1,130,163; Mar. 2; Gaz. vol. 212; p. 111.
- Hall, Dean S., Marshfield, Vt. Sleigh. No. 1,134,453; Apr. 6; Gaz. vol. 213; p. 135.
- Hall, Dwight K., Goshen, N. Y. Bedstead construction. No. 1,128,134; Feb. 9; Gaz. vol. 211; p. 557.
- Hall, Dwight K., Goshen, N. Y., assignor to F. A. Hall, Montclair, N. J. Caster for beds, operating-tables, and the like. No. 1,133,798; Mar. 30; Gaz. vol. 212; p. 1558.
- Hall, Edward M., Deferiet, N. Y., assignor to Hall Process Corporation. Process and apparatus for reducing wood to pulp. No. 1,132,258; Mar. 16; Gaz. vol. 211; p. 917.
- Hall, Elmer E., assignor of one-half to W. R. Schmidt and one-half to L. W. Hall, Chicago, Ill. Can. No. 1,154,627; Sept. 28; Gaz. vol. 218; p. 894.
- Hall, Ernest, Kannapolis, N. C. Attachment for looms. No. 1,125,843; Jan. 19; Gaz. vol. 210; p. 1011.
- Hall, Frank A. (See Hall, Dwight K., assignor.)
- Hall, Frank A. (See McIntosh, Burnett, assignor.)
- Hall, Frank B., Berwyn, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Spool-washer. No. 1,148,491; July 27; Gaz. vol. 216; p. 1299.
- Hall, Frankie A., executrix. (See Hall, Hiram P.)

- Hall, George E., Akron, Ohio. Manufacture of rubber water-bottles. No. 1,148,226; July 27; Gaz. vol. 216; p. 1206.
- Hall, George R., Fremont, Mich. Sash-lock. No. 1,144,124; June 22; Gaz. vol. 215; p. 1163.
- Hall, George W. (See Hanson and Hall.)
- Hall, Hartwell & Company. (See McKay, Joseph, assignor.)
- Hall, Harvey B., Homer, Ill. Rail tie and fastener. No. 1,130,081; Mar. 2; Gaz. vol. 212; p. 83.
- Hall, Herbert W., Montour Falls, assignor to The Cronk & Carrier Manufacturing Company, Elmira, N. Y. Rake. No. 1,128,680; Feb. 16; Gaz. vol. 211; p. 794.
- Hall, Hiram P., deceased, New York, N. Y.; F. A. Hall, executrix. Fluid-pressure-controlled transmission mechanism. No. 1,159,018; Nov. 2; Gaz. vol. 220; p. 210.
- Hall, Isaac A. (See Bentele, Benedikt, assignor.)
- Hall, Isaiah, Birmingham, England. Thermostatic regulating device. No. 1,128,778; Feb. 16; Gaz. vol. 211; p. 827.
- Hall, Isaiah, Aston, Birmingham, England. Temperature-regulator. No. 1,149,046; Aug. 3; Gaz. vol. 217; p. 198.
- Hall, Isaiah, Aston, Birmingham, England. Melting furnace. No. 1,161,047; Nov. 23; Gaz. vol. 220; p. 1060.
- Hall, James, Guide Bridge, near Manchester, assignor to Jones' Sewing Machine Company Limited, Guide Bridge, England. Lubricating device for bearings. No. 1,163,405; Dec. 7; Gaz. vol. 221; p. 234.
- Hall, James, and J. L. O. Connor, Vancouver, Wash. Adjustable caster. No. 1,162,602; Nov. 30; Gaz. vol. 220; p. 1647.
- Hall, James A., Seattle, Wash. Rall. No. 1,166,363; Dec. 28; Gaz. vol. 221; p. 1398.
- Hall, James T., Coalinga, Cal. Oil-well plug. No. 1,137,205; Apr. 27; Gaz. vol. 213; p. 1227.
- Hall, Jay H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric switch. No. 1,138,212; May 4; Gaz. vol. 214; p. 171.
- Hall, Jay H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Motor-control system. No. 1,155,484; Oct. 5; Gaz. vol. 219; p. 56.
- Hall, Jesse H., Crossett, Ark. Silo-door. No. 1,145,766; July 6; Gaz. vol. 216; p. 277.
- Hall, John A., assignor of one-half to W. M. Lord, Union, N. H. Cushion top-lift for heels. No. 1,133,135; Mar. 23; Gaz. vol. 212; p. 1286.
- Hall, John B. (See Lee, John E., assignor.)
- Hall, John B., Philadelphia, Pa. Treating cotton-bolls. No. 1,166,127; Dec. 28; Gaz. vol. 221; p. 1311.
- Hall, John S. (See Leigh, Edmund W., assignor.)
- Hall, John W., and C. Baynes, London, England. Detachable rim for resilient tires. No. 1,142,563; June 8; Gaz. vol. 215; p. 556.
- Hall, Joseph A., New Britain, Conn. Plating aluminum. No. 1,147,718; July 27; Gaz. vol. 216; p. 1027.
- Hall, L. W., et al. (See Hall, Elmer E., assignor.)
- Hall, Louis J., Chicago, Ill., assignor, by mesne assignments, to Morris-Hall Mail Closer Co. Machine for stamping and sealing mail-matter. No. 1,132,929; Mar. 23; Gaz. vol. 212; p. 1211.
- Hall, Louis J., Freeport, assignor to The Morris-Hall Mail Closer Company, Rochester, N. Y. Machine for sealing mail-matter. No. 1,132,930; Mar. 23; Gaz. vol. 212; p. 1211.
- Hall Mailing Box Company, The. (See Hall, William J., assignor.)
- Hall Manufacturing Company. (See Jenney, Robert T., assignor.)
- Hall, Mathew. (See Van Horn, Sheridan A., assignor.)
- Hall, Milan W., assignor to Hall-Seeley Motor Corporation, Baltimore, Md. Two-cycle gas-engine. No. 1,158,380; Oct. 26; Gaz. vol. 219; p. 1186.
- Hall, Milan W., assignor to Hall-Seeley Motor Corporation, Baltimore, Md. Two-cycle gas-engine. No. 1,158,381; Oct. 26; Gaz. vol. 219; p. 1186.
- Hall, Minnie E., Newark, N. J. Holder for bags. No. 1,129,799; Feb. 23; Gaz. vol. 211; p. 1218.
- Hall, Owen S., Red Lodge, Mont. Sectional concrete culvert. No. 1,130,508; Mar. 2; Gaz. vol. 212; p. 235.
- Hall Printing Press Company. (See White, Joseph, assignor.)
- Hall Process Corporation. (See Hall, Edward M., assignor.)
- Hall, Ray E., assignor of one-half to C. A. Robertson, Portland, Oreg. Method of and means for translating sounds. No. 1,160,072; Nov. 9; Gaz. vol. 220; p. 616.
- Hall, Robert, Lockport, assignor to American District Steam Company, North Tonawanda, N. Y. Liquid-measuring device. No. 1,152,891; Sept. 7; Gaz. vol. 218; p. 188.
- Hall, Samuel N. (See Layne and Hall.)
- Hall, Sarah E., Chicago, Ill. Head-gear. No. 1,139,967; May 18; Gaz. vol. 214; p. 863.
- Hall-Seeley Motor Corporation. (See Hall, Milan W., assignor.)
- Hall, Selden H. (See Leitch and Hall.)
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Sealing discharge-passage of centrifugalizing-machines and the like. No. 1,149,578; Aug. 10; Gaz. vol. 217; p. 491.
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal machine. No. 1,156,285; Oct. 12; Gaz. vol. 219; p. 356.
- Hall Switch & Signal Company. (See Backus, Edward E., assignor.)
- Hall Switch & Signal Company. (See Bodde, Theodore, assignor.)
- Hall Switch & Signal Company, The. (See Coleman, Clarence W., assignor.)
- Hall Signal Company, The. (See Coleman, Clyde J., assignor.)
- Hall Switch & Signal Company. (See Coleman and Day, assignors.)
- Hall Switch & Signal Company. (See Day, Albert V. T., assignor.)
- Hall Switch & Signal Company. (See Gill, Edwin R., assignor.)
- Hall Switch & Signal Company, The. (See Gill, Edwin R., assignor.) (Reissue.)
- Hall Switch & Signal Company. (See Kleinschmidt, Edward E., assignor.)
- Hall Switch & Signal Company. (See Rhoads, Charles S., Jr., assignor.)
- Hall Switch & Signal Company. (See Rugh, Harry O., assignor.)
- Hall Switch & Signal Company. (See Ward, Samuel M., Jr., assignor.)
- Hall, Thomas S., Mount Vernon, N. Y. Tape-package. No. 1,135,110; Apr. 13; Gaz. vol. 213; p. 411.
- Hall, Tomas P., Vancouver, British Columbia, Canada. Moving-picture machine. No. 1,156,596; Oct. 12; Gaz. vol. 219; p. 467.
- Hall, Trygve A., Cleveland, Ohio. Automobile-tire. No. 1,140,591; May 25; Gaz. vol. 214; p. 1118.
- Hall, Walter A. and C. W., assignors to Railway Improvement Company, New York, N. Y. Centrifugally-controlled coasting-indicating device for cars or trains. No. 1,165,592; Dec. 28; Gaz. vol. 221; p. 1122.
- Hall, Walter D., Port Huron, Mich. Trolley-wire clamp. No. 1,161,474; Nov. 23; Gaz. vol. 220; p. 1213.
- Hall, Walter W., Brooklyn, N. Y. Amusement device. No. 1,136,671; Apr. 20; Gaz. vol. 213; p. 999.
- Hall, William A., New York, N. Y. Production of sulfur from pyrites and other metallic sulfides. No. 1,133,636; Mar. 30; Gaz. vol. 212; p. 1501.
- Hall, William A., New York, N. Y. Preventing escape of noxious gases in smelting. No. 1,133,637; Mar. 30; Gaz. vol. 212; p. 1501.
- Hall, William A., New York, N. Y. Preventing the escape of sulfur dioxide in smelting sulfid ores. No. 1,134,846; Apr. 6; Gaz. vol. 213; p. 275.
- Hall, William A., assignor to Thomas & Betts Company, New York, N. Y. Outlet-box. No. 1,132,087; Mar. 16; Gaz. vol. 212; p. 853.
- Hall, William D. (See Richardson and Hall.)
- Hall, William D., Philadelphia, Pa. Jar-closure. No. 1,163,005; Dec. 7; Gaz. vol. 221; p. 95.
- Hall, William J., assignor to The Hall Mailing Box Company, Cincinnati, Ohio. Mailing-box. No. 1,158,047; Oct. 26; Gaz. vol. 219; p. 1069.
- Hall, William L., Newark, Ohio. Wire-clamping device. No. 1,152,943; Sept. 7; Gaz. vol. 218; p. 207.
- Hall, William P., assignor to One-Piece Bifocal Lens Company, Indianapolis, Ind. Lens-grinding tool. No. 1,162,053; Nov. 30; Gaz. vol. 220; p. 1459.
- Hall, William R., Warner, N. H. Spark-arrester. No. 1,127,989; Feb. 9; Gaz. vol. 211; p. 505.
- Hall, Willis B., et al. (See Benn, William E., assignor.)
- Halladay, Lewis P., Streator, Ill. Auxiliary spring for motor-vehicles. No. 1,131,370; Mar. 9; Gaz. vol. 212; p. 563.
- Halladay, Lewis P., Streator, Ill. Steering-wheel. No. 1,159,019; Nov. 2; Gaz. vol. 220; p. 210.
- Halladay, William S., and J. Schaefer, Milwaukee, Wis. Mausoleum. No. 1,132,088; Mar. 16; Gaz. vol. 212; p. 854.
- Hallatre, Charles, Amsterdam, N. Y. Curtain-shade bracket. No. 1,153,069; Sept. 7; Gaz. vol. 218; p. 249.
- Hallander, John A., assignor to American Mining Tool Company, Ottumwa, Iowa. Boxing for drills. No. 1,148,313; July 27; Gaz. vol. 216; p. 1238.
- Hallberg, Sven A., Chicago, Ill. Steam sander and crystallizing-machine. No. 1,162,603; Nov. 30; Gaz. vol. 220; p. 1647.
- Hallidin, Gustaf, Rural Valley, Pa. Washing-machine. No. 1,133,638; Mar. 30; Gaz. vol. 212; p. 1501.
- Halle, Max von. (See Ehrenthal, Bruno M. E. L. P. von, assignor.)
- Halle, Walter, Budapest, Austria-Hungary. Preparing nicotine. No. 1,123,522; Jan. 5; Gaz. vol. 210; p. 111.
- Haller, William H., assignor of one-third to P. A. Nicklin, Cumberland, Md. Pipe-coupling. No. 1,135,893; Apr. 13; Gaz. vol. 213; p. 684.
- Hallett, Maude M., Oak Park, Ill. Safety-harness for children. No. 1,123,278; Jan. 5; Gaz. vol. 210; p. 26.
- Halley, George W., Nevada, Iowa. Fish-net and tent frame. No. 1,158,489; Nov. 2; Gaz. vol. 220; p. 27.
- Halley, George W., Nevada, Iowa. Broom and towel holder. No. 1,158,490; Nov. 2; Gaz. vol. 220; p. 27.
- Halley, James M., Keytesville, Mo. Egg-tester. No. 1,130,270; Mar. 2; Gaz. vol. 212; p. 149.

Alphabetical list of patentees—Continued.

- Hallgren, Emil, Bellevue, Pa. Crucible-furnace. No. 1,138,866; May 11; Gaz. vol. 214; p. 441.
- Halliburton, Orville G., Dallas, Tex. Combustion device. No. 1,135,688; Apr. 13; Gaz. vol. 213; p. 612.
- Halliday, Thomas E., Bishopstoke, England. Heavy-oil carbureting system for internal-combustion engines. No. 1,137,057; Apr. 27; Gaz. vol. 213; p. 1174.
- Halliday, Thomas E., Bishopstoke, England. Vaporizer for use with internal-combustion engines. No. 1,157,101; Oct. 19; Gaz. vol. 219; p. 675.
- Hallinger, Franz X., Hamburg, Germany. Building waterproof tunnels. No. 1,138,603; May 4; Gaz. vol. 214; p. 307.
- Halliwell, John J., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism. No. 1,130,727; Mar. 9; Gaz. vol. 212; p. 343.
- Halliwell, John J., assignor to R. Hoe and Co., New York, N. Y. Ink-fountain for printing-machines. No. 1,137,856; May 4; Gaz. vol. 214; p. 46.
- Halloek, Daniel Y., York, Pa. Tongue for shoes. No. 1,155,354; Oct. 5; Gaz. vol. 219; p. 11.
- Halloek, Fletcher D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of electric-motor control. No. 1,145,680; July 6; Gaz. vol. 216; p. 245.
- Hallock, George W., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Electrical system. No. 1,143,191; June 15; Gaz. vol. 215; p. 815.
- Halloek, William J., Jersey City, N. J. Submarine bomb. No. 1,163,146; Dec. 7; Gaz. vol. 221; p. 143.
- Hallowell, Albert, assignor to W. S. Lamson, deceased, Lowell, Mass.; M. A. Lamson, executrix. Hydrant. No. 1,154,582; Sept. 21; Gaz. vol. 218; p. 850.
- Hallowell, Clifton C., *et al.* (See Smith, Edward W., assignor.)
- Hallowell, Howard T., Philadelphia, Pa. Hollow or socket screw. No. 1,153,488; Sept. 14; Gaz. vol. 218; p. 437.
- Hallquist, Gustaf E., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for use in the manufacture of boots and shoes. No. 1,160,165; Nov. 16; Gaz. vol. 220; p. 704.
- Halman, Isador L., Brookline, assignor to H. C. Red Label Chemical Company, Boston, Mass. Cleansing and disinfecting fluid. No. 1,133,639; Mar. 30; Gaz. vol. 212; p. 1502.
- Halogen Products Company. (See Aylsworth, Jonas W., assignor.)
- Halsey, Edward S., Lynn, Mass., assignor to Halsey Manufacturing Co., Wilmington, Del. Time-controlled thermostatic motor. No. 1,150,185; Aug. 17; Gaz. vol. 217; p. 773.
- Halsey Manufacturing Co. (See Halsey, Edward S., assignor.)
- Halstead, Frederick H., Worcester, Mass., assignor, by mesne assignments, to Halstead Machine Company. Machine for grinding coiled springs. No. 1,142,700; June 8; Gaz. vol. 215; p. 601.
- Halstead Machine Company. (See Halstead, Frederick H., assignor.)
- Halsted, George E., Nelson, England. Detachable heel. No. 1,149,824; Aug. 10; Gaz. vol. 217; p. 582.
- Halstrom, Arvid S., *et al.* (See Conrad, Joseph L., assignor.)
- Halterbeck, John, assignor to G. Mel, New York, N. Y. Woodworking-vise. No. 1,130,082; Mar. 2; Gaz. vol. 212; p. 83.
- Halterman, John W. (See Kendrick and Halterman.)
- Halvardson, Gustaf L., Stockholm, Sweden. Reversible brush-holder. No. 1,155,921; Oct. 5; Gaz. vol. 219; p. 208.
- Halverstadt, Leroy J., assignor to The Crescent Machine Company, Leetonia, Ohio. Guard for woodworking-machines. No. 1,134,738; Apr. 6; Gaz. vol. 213; p. 240.
- Halvorsen, Arthur L. (See Foersterling and Halvorsen.)
- Halvorson, Albert N. (See Clemmer, Rosendahl, and Halvorson.)
- Halvorson, Cromwell A. B., Jr. (See Fleming and Halvorson.)
- Halvorson, Cromwell A. B., Jr., Saugus, Mass., assignor to General Electric Company. Inclosed-arc lamp. No. 1,132,259; Mar. 16; Gaz. vol. 212; p. 918.
- Halvorson, Cromwell A. B., Jr., Saugus, and L. O. Ingalls, Lynn, Mass., assignors to General Electric Company. Headlight. No. 1,143,539; June 15; Gaz. vol. 215; p. 935.
- Ham-Melx Manufacturing Company, The. (See Hamilton, Harry W., assignor.)
- Hamacheck, Frank, Kewanee, Wis. Detachable-link chain. No. 1,144,411; June 29; Gaz. vol. 215; p. 1292.
- Hamacheck, Frank, Kewanee, Wis. Pea-separator. No. 1,153,304; Sept. 14; Gaz. vol. 218; p. 309.
- Hamalainen, Matti, Ludlow, Vt. Combination-tool. No. 1,142,418; June 8; Gaz. vol. 215; p. 506.
- Haman, Albert L. (See Hummel, Ernest A., assignor.)
- Hamann, Carl H. O., Bergedorf, near Hamburg, Germany. Machine with rotatory and oscillating pistons. No. 1,150,430; Aug. 17; Gaz. vol. 217; p. 857.
- Hamblin, Ed. Jr. (See Krauth and Hamblin.)
- Hambrock, Frederick, New York, N. Y. Shade-fixture. No. 1,124,426; Jan. 12; Gaz. vol. 210; p. 470.
- Hambrock, Louis, Jr., Newark, N. J. Finish-remover. No. 1,143,387; June 15; Gaz. vol. 215; p. 885.
- Hamburg, Max, Bishop, Stortford, England. Dry fat and oil compounds. No. 1,124,611; Jan. 12; Gaz. vol. 210; p. 538.
- Hamburger, Aron. (See Conrady and Hamburger.)
- Hamel, Adolor, assignor of one-half to W. W. Fulton, Chicago, Ill. Molding apparatus. No. 1,138,558; May 4; Gaz. vol. 214; p. 292.
- Hamel, Louis C., Appleton, Wis. Feeder for mixing apparatus. No. 1,129,866; Mar. 2; Gaz. vol. 212; p. 12.
- Hamel, Louis C., Appleton, Wis. Power-transmission device. No. 1,146,495; July 13; Gaz. vol. 216; p. 554.
- Hamel, Richard H., Fall River, Mass. Sled. No. 1,156,527; Oct. 12; Gaz. vol. 219; p. 444.
- Hamel Shoe Machinery Co. (See Beaudry, Zotique, assignor.)
- Hamel Shoe Machinery Company. (See Green, Alonzo L., assignor.)
- Hamel Shoe Machinery Company. (See Hart, Thomas F., assignor.)
- Hamel Shoe Machinery Company. (See Scarlett, William E., assignor.)
- Hamel Shoe Machinery Company. (See Sullivan, John J., assignor.)
- Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)
- Hamelback, Jacob A., assignor of one-half to J. W. Horner, Newark, Ohio. Twine-holder. No. 1,137,133; Apr. 27; Gaz. vol. 213; p. 1202.
- Hamelin, Alban, assignor of one-half to Hamlaun's Patents Company, Montreal, Quebec, Canada. Combined burglar-alarm and lock. No. 1,157,863; Oct. 26; Gaz. vol. 219; p. 1005.
- Hamer, Walter, Sr., Salt Lake City, Utah. Medicine-dropper. No. 1,160,883; Nov. 16; Gaz. vol. 220; p. 956.
- Hamer, William D. (See Bloss, William H., assignor.)
- Hamill, Benjamin D. (See Bonn and Hamill.)
- Hamill, John R. (See Thomas, John W., assignor.)
- Hamill, Patrick, Jerome, Pa. Rail connection. No. 1,127,885; Feb. 9; Gaz. vol. 211; p. 470.
- Hamill, Patrick J., Jerome, Pa. Combined curtain-pole holder and shade-bracket. No. 1,150,760; Aug. 17; Gaz. vol. 217; p. 972.
- Hamill, William W., Glasgow, Scotland. Liquid-fuel-spraying device. No. 1,143,700; June 22; Gaz. vol. 215; p. 1015.
- Hamilton, Abraham, Winnipeg, Manitoba, Canada. Catch-basin. No. 1,127,235; Feb. 2; Gaz. vol. 211; p. 201.
- Hamilton, Abraham, Moose Jaw, Saskatchewan, Canada. Reservation-indicator. No. 1,165,247; Dec. 21; Gaz. vol. 221; p. 965.
- Hamilton, Asbury H., Brooklyn, N. Y. Sanitary clothes-hamper. No. 1,130,509; Mar. 2; Gaz. vol. 212; p. 235.
- Hamilton Carhartt Manufacturer. (See Carhartt and Kratz, assignors.)
- Hamilton Carhartt Manufacturer. (See Kratz, Oscar, assignor.)
- Hamilton, Carl C., Dayton, Ohio. Combined fire-hose bridge and car-wheel replacer. No. 1,137,313; Apr. 27; Gaz. vol. 213; p. 1268.
- Hamilton Corporation, The. (See Gregg, Robert E., assignor.)
- Hamilton, David, Greensburg, Pa. Gate-valve. No. 1,135,280; Apr. 13; Gaz. vol. 213; p. 468.
- Hamilton, David, Greensburg, Pa. Water-heater. No. 1,153,781; Sept. 14; Gaz. vol. 218; p. 539.
- Hamilton, Edward M., Bristol, England, assignor to C. Butters, Oakland, Cal. Treating ores. No. 1,136,872; Apr. 20; Gaz. vol. 213; p. 1070.
- Hamilton, Ernest A., Philadelphia, Pa., and W. L. Hamilton, Holyoke, Mass. Vending machine. No. 1,133,640; Mar. 30; Gaz. vol. 212; p. 1502.
- Hamilton, Ernest A., Philadelphia, and F. W. Calvert, Narberth, assignors to Scott Paper Company, Philadelphia, Pa. Dispensing means for paper for toilet or towel purposes. No. 1,141,541; June 1; Gaz. vol. 215; p. 162.
- Hamilton, Frank C., Kansas City, Mo. Gas-producing furnace. No. 1,145,892; July 13; Gaz. vol. 216; p. 339.
- Hamilton, George, Providence, R. I. Engraving-machine. No. 1,153,550; Sept. 14; Gaz. vol. 218; p. 460.
- Hamilton & Hamilton, Jr. (See Fuller, James A., assignor.)
- Hamilton, Harry E., Fountain City, Ind. Mold. No. 1,132,579; Mar. 23; Gaz. vol. 212; p. 1081.
- Hamilton, Harry W., assignor to The Ham-Melx Manufacturing Company, Indianapolis, Ind. Starting device for internal-combustion engines. No. 1,149,132; Aug. 3; Gaz. vol. 217; p. 226.
- Hamilton, Harry W., assignor to The Ham-Melx Manufacturing Company, Indianapolis, Ind. Starter for internal-combustion engines. No. 1,149,133; Aug. 3; Gaz. vol. 217; p. 226.
- Hamilton, Harry W., assignor to the Ham-Melx Manufacturing Company, Indianapolis, Ind. Automobile-starter. No. 1,149,134; Aug. 3; Gaz. vol. 217; p. 227.
- Hamilton, Harry W., assignor to The Ham-Melx Manufacturing Company, Indianapolis, Ind. Starter for internal-combustion engines. No. 1,149,135; Aug. 3; Gaz. vol. 217; p. 227.
- Hamilton, Harry W., assignor to The Ham-Melx Manufacturing Company, Indianapolis, Ind. Motor-starter. No. 1,149,136; Aug. 3; Gaz. vol. 217; p. 228.

- Hamilton, Harvey B., Tulare, S. D. Silo. No. 1,137,611; Apr. 27; Gaz. vol. 213; p. 1371.
- Hamilton, James B., London, England. Reed-organ combined with pianoforte. No. 1,154,509; Sept. 21; Gaz. vol. 218; p. 824.
- Hamilton, James L., deceased, Grand Junction, Colo.; M. C. Hamilton, administratrix. Orchard-heater. No. 1,143,582; June 15; Gaz. vol. 215; p. 950.
- Hamilton, James L., Grand Junction, Colo., assignor to Hamilton Orchard Heater Company, Wheeling, W. Va. Orchard-heater. No. 1,126,453; Jan. 26; Gaz. vol. 210; p. 1264.
- Hamilton, James T., Davenport, Okla. Metallic shingle. No. 1,143,266; June 15; Gaz. vol. 215; p. 841.
- Hamilton, James T., and C. C. McMullen, Ellisville, Miss. Railway-switch. No. 1,135,375; Apr. 13; Gaz. vol. 213; p. 500.
- Hamilton, John. (See Freeman, Malon E., assignor.)
- Hamilton, John R., assignor of one-half to A. H. Likely, St. John, New Brunswick, Canada. Spring. No. 1,156,859; Oct. 12; Gaz. vol. 219; p. 561.
- Hamilton, Lawrence, Liverpool, England. Washing-machine. No. 1,141,628; June 1; Gaz. vol. 215; p. 192.
- Hamilton Manufacturing Company. (See Suddard, Thomas W., assignor.)
- Hamilton, Martha C., administratrix. (See Hamilton, James L.)
- Hamilton, Millard F. (See Georgy and Hamilton.)
- Hamilton, Milo E., Worcester, Mass. Bottle-stopper. No. 1,132,931; Mar. 23; Gaz. vol. 212; p. 1211.
- Hamilton Orchard Heater Company. (See Hamilton, James L., assignor.)
- Hamilton Orchard Heater Company. (See Scheu, William C., assignor.)
- Hamilton, Ralph E., Detroit, Mich. Driving mechanism for motor-vehicles. No. 1,126,992; Feb. 2; Gaz. vol. 211; p. 115.
- Hamilton, Richard F., New York, N. Y. Metal crate or box. No. 1,146,327; July 13; Gaz. vol. 216; p. 493.
- Hamilton, Richard F., and D. Lipsich, New York, N. Y.; said Lipsich assignor to said Hamilton. Sheet-metal box or tray. No. 1,148,015; July 27; Gaz. vol. 216; p. 1131.
- Hamilton, Richard F., and D. Lipsich, New York, N. Y.; said Lipsich assignor to said Hamilton. Sheet-metal box or tray. No. 1,148,016; July 27; Gaz. vol. 216; p. 1131.
- Hamilton, Richard F., and D. Lipsich, New York, N. Y.; said Lipsich assignor to said Hamilton. Crate. No. 1,148,017; July 27; Gaz. vol. 216; p. 1131.
- Hamilton, Robert, Commerce, Tex. Cotton-chopper. No. 1,135,790; Apr. 13; Gaz. vol. 213; p. 647.
- Hamilton, Robert, Birmingham, Ala. Automatic sampling device. No. 1,151,682; Aug. 31; Gaz. vol. 217; p. 1390.
- Hamilton, Rush E., Geyersville, Cal. Traction-wheel. No. 1,139,968; May 18; Gaz. vol. 214; p. 864.
- Hamilton, Theodore M., Fairfax, Va. Bracing device for silos. No. 1,152,174; Aug. 31; Gaz. vol. 217; p. 1561.
- Hamilton, Walter L. (See Hamilton, Ernest A. and W. L.)
- Hamilton, Walter L., Holyoke, Mass., assignor, by mesne assignments, to Scott Paper Company, Philadelphia, Pa. Check-controlled apparatus. No. 1,138,589; May 4; Gaz. vol. 214; p. 302.
- Hamilton, William E., and G. T. Nyhagen; said Nyhagen assignor by mesne assignments, to E. W. Budke, St. Paul, Minn. Platen-press brake. No. 1,123,279; Jan. 5; Gaz. vol. 210; p. 26.
- Hamilton, William L., Chicago, Ill. Reciprocating-gear mechanism. No. 1,134,332; Apr. 6; Gaz. vol. 213; p. 91.
- Hamilton, William L., Chicago, assignor of one-third to L. K. Gillson, Wilmette, and one-sixth to C. B. Gillson, Chicago, Ill. Cylinder for rotary printing-presses. No. 1,135,179; Apr. 13; Gaz. vol. 213; p. 434.
- Hamilton, William R., assignor to The Dominion Gresham Guarantee & Casualty Company, Montreal, Quebec, Canada. Fire-alarm transmitter. No. 1,126,199; Jan. 26; Gaz. vol. 210; p. 1174.
- Hamilton, William R., assignor to The Dominion Gresham Guarantee & Casualty Company, Montreal, Quebec, Canada. Fire-alarm-transmitter movement. No. 1,126,200; Jan. 26; Gaz. vol. 210; p. 1175.
- Hamlen's Patents Company. (See Hamelin, Alban, assignor.)
- Haulen, Roy, assignor of forty one-hundredths to G. Tate, Oakland, Cal. Safety-switch for electric train controls. No. 1,138,287; May 4; Gaz. vol. 214; p. 198.
- Hamlet, Amos N., Elk Point, S. D. Filter. No. 1,164,508; Dec. 14; Gaz. vol. 221; p. 666.
- Hamley, John J. (See McMonies and Hamley.)
- Hamley, Lester H. (See McMonies and Hamley.)
- Hamlin, Cyrus, New York, N. Y. Thumb-rest for violins and similar musical instruments. No. 1,144,194; June 22; Gaz. vol. 215; p. 1188.
- Hamlin, Frank M., Lake Villa, Ill. Ice-cutting machine. No. 1,146,156; July 13; Gaz. vol. 216; p. 434.
- Hamlin, Kenneth L., Boonshill, Tenn. Rail-joint. No. 1,164,509; Dec. 14; Gaz. vol. 221; p. 666.
- Hamm, Peter, Milwaukee, Wis. Magneto. No. 1,141,336; June 1; Gaz. vol. 215; p. 88.
- Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Berth-lamp. No. 1,126,454; Jan. 26; Gaz. vol. 210; p. 1265.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company, Chicago, Ill. Sash-bolt. No. 1,150,186; Aug. 17; Gaz. vol. 217; p. 774.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Guard-frame for lanterns. No. 1,150,187; Aug. 17; Gaz. vol. 217; p. 774.
- Hammack, Joseph S., et al. (See Hammack, Martin V., assignor.)
- Hammack, Martin V., assignor of one-half to A. L. Cox and one-half to J. S. Hammack, Raleigh, N. C. Trousers appliance. No. 1,165,093; Dec. 21; Gaz. vol. 221; p. 910.
- Hammack, William. (See Hedges and Hammack.)
- Hamman, John H., Florence, Mass. Machine for facing and drilling buttons. No. 1,160,997; Nov. 16; Gaz. vol. 220; p. 997.
- Hammar, Charles C. R., New Duluth, Minn. Power-driven reciprocating mechanism. No. 1,136,796; Apr. 20; Gaz. vol. 213; p. 1044.
- Hammar, Charles C. R., New Duluth, Minn. Extractor. No. 1,153,070; Sept. 7; Gaz. vol. 218; p. 250.
- Hammar, Frank P., et al. (See Bowman, Charles M., assignor.)
- Hammel, Louis, Philadelphia, Pa. Hedge-trimmer. No. 1,144,542; June 29; Gaz. vol. 215; p. 1336.
- Hammel Riglander & Co. (See Grafton, William H., assignor.)
- Hammell, Henry A., New Brunswick, N. J. Automatic train-stop. No. 1,151,458; Aug. 24; Gaz. vol. 217; p. 1265.
- Hammer, Charles, Brooklyn, N. Y. Bottle or jar closure. No. 1,160,596; Nov. 16; Gaz. vol. 220; p. 854.
- Hammer, Charles, Brooklyn, N. Y. Closure for bottles or jars. No. 1,160,597; Nov. 16; Gaz. vol. 220; p. 855.
- Hammer, Charles, Cliffside, N. J., assignor to The American Metal Cap Co., Buffalo, N. Y. Bottle or jar closure. (Reissue.) No. 1,3973; Aug. 31; Gaz. vol. 217; p. 1637.
- Hammer, Charles, New York, assignor to American Metal Cap Company, Brooklyn, N. Y. Glass finish for jars or bottles. No. 1,160,598; Nov. 16; Gaz. vol. 220; p. 855.
- Hammer, Charles, assignor to The American Metal Cap Company, Brooklyn, N. Y. Bottle cap or closure. No. 1,160,582; Nov. 16; Gaz. vol. 220; p. 992.
- Hammer, Edwin B., Washington, Iowa. Button-display cabinet. No. 1,147,235; July 20; Gaz. vol. 216; p. 831.
- Hammer, Fritz, Philadelphia, Pa. Woven pile fabric. No. 1,143,192; June 15; Gaz. vol. 215; p. 816.
- Hammer, Joseph H., Sunbury, Pa. Pin-retainer. No. 1,145,193; July 6; Gaz. vol. 216; p. 76.
- Hammer, Robert E., Philadelphia, Pa. Vehicle-spring. No. 1,147,603; July 20; Gaz. vol. 216; p. 925.
- Hämmerle, Gebhard. (See Fessman and Hämmerle.)
- Hammerstein, Oscar, New York, N. Y. Machine for stripping and booking tobacco-leaf. No. 1,133,799; Mar. 30; Gaz. vol. 212; p. 1559.
- Hammerstein, Oscar, New York, N. Y. Tobacco-machine. No. 1,137,206; Apr. 27; Gaz. vol. 213; p. 1228.
- Hammerstein, Oscar, New York, N. Y. Tobacco-leaf machine. No. 1,137,207; Apr. 27; Gaz. vol. 213; p. 1228.
- Hammerstein, Oscar, New York, N. Y. Cigar-bunch and making same. No. 1,142,164; June 8; Gaz. vol. 215; p. 416.
- Hammesfahr, Julius, Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-fastener. No. 1,132,932; Mar. 23; Gaz. vol. 212; p. 1211.
- Hammesfahr, Julius, Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-fastener. No. 1,143,388; June 15; Gaz. vol. 215; p. 885.
- Hammett, William H., Strafford, Pa. Game apparatus. No. 1,149,753; Aug. 10; Gaz. vol. 217; p. 557.
- Hammetter, August H. (See Pfefferkorn, Schloerb, and Hammetter.)
- Hammock Egg Carrier Company. (See Milliron, Ira A., assignor.)
- Hammon Coupler Company. (See Clark and Ryman, assignors.)
- Hammon, George W., Marlboro, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on insoles. No. 1,161,769; Nov. 23; Gaz. vol. 220; p. 1313.
- Hammond, C. G., trustee. (See Brantingham, Allen C., assignor.)
- Hammond, Clarence C., Wichita, Kans. Button-setting machine. No. 1,144,841; June 29; Gaz. vol. 215; p. 1439.
- Hammond, Clarence C., Wichita, Kans. Wire-feeding mechanism. No. 1,149,825; Aug. 10; Gaz. vol. 217; p. 583.
- Hammond, Clarence C., Wichita, Kans. Button-feeding mechanism. No. 1,155,148; Sept. 28; Gaz. vol. 218; p. 1073.
- Hammond, Edgar S. (See Best, William N., assignor.)
- Hammond, Ellery L., Sayre, Pa. Combined tweezers and file. No. 1,143,761; June 22; Gaz. vol. 215; p. 1035.
- Hammond, Fred E. (See Richardson, Edward M., assignor.)
- Hammond, George H., Minneapolis, Minn. Valve-pick-up tool. No. 1,128,135; Feb. 9; Gaz. vol. 211; p. 557.

Alphabetical list of patentees—Continued.

- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,124,427; Jan. 12; Gaz. vol. 210; p. 470.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Safety mechanism for firearms. No. 1,126,201; Jan. 26; Gaz. vol. 210; p. 1175.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Grip-slide retainer. No. 1,133,281; Mar. 30; Gaz. vol. 212; p. 1373.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,133,376; May 4; Gaz. vol. 214; p. 231.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,133,377; May 4; Gaz. vol. 214; p. 232.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine catch and release. No. 1,138,378; May 4; Gaz. vol. 214; p. 232.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,138,379; May 4; Gaz. vol. 214; p. 232.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,140,512; May 25; Gaz. vol. 214; p. 1091.
- Hammond, Grant, Hartford, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,140,513; May 25; Gaz. vol. 214; p. 1092.
- Hammond, Herbert F., Whitinsville, Mass. Toe-brake. No. 1,164,810; Dec. 21; Gaz. vol. 221; p. 812.
- Hammond, John H., Jr., Gloucester, Mass. Wireless selective system and apparatus. No. 1,154,628; Sept. 28; Gaz. vol. 218; p. 895.
- Hammond, John W. and P. M., assignors of one-twentieth to said J. W. Hammond, four-twentieths to said P. M. Hammond, three-twentieths to E. G. Nelson, three-twentieths to W. N. Turnbull, one-twentieth to C. E. Blackman, one-twentieth to B. Newburg, one-twentieth to C. Mackirdy, one-twentieth to W. Brinkmann, one-twentieth to R. A. Sauderson, two-twentieths to F. A. La Londe, one-twentieth to L. V. Thayer, and one-twentieth to L. P. Worrall, Minneapolis, Minn. Game apparatus. No. 1,152,313; Aug. 31; Gaz. vol. 217; p. 1608.
- Hammond-Knowlton, Clarence A., New York, N. Y. Producing a filled bobbin. No. 1,129,609; Feb. 23; Gaz. vol. 211; p. 1175.
- Hammond, Lee, et al. (See Levison, Maurice, assignor.)
- Hammond, Luthan W., Venice, N. Y. Two-collar harness. No. 1,153,908; Sept. 21; Gaz. vol. 218; p. 619.
- Hammond, Luthan W., Venice, N. Y. Neck-yoke coupling. No. 1,159,020; Nov. 2; Gaz. vol. 220; p. 211.
- Hammond, Perlle M. (See Hammond, John W. and P. M.)
- Hammond, Robert O., Farmingdale, assignor to J. B. Stoddard, New York, N. Y. Self-locking box. No. 1,130,271; Mar. 2; Gaz. vol. 212; p. 150.
- Hammond, Robert O., assignor to C. F. Delano, Amityville, N. Y. Nut-lock. No. 1,155,283; Sept. 28; Gaz. vol. 218; p. 1100.
- Hammond, Robert O., New York, N. Y., assignor to G. W. Kenkel and J. D. Montmeat, Paterson, N. J. Shipping crate or case for eggs or the like. No. 1,155,234; Sept. 28; Gaz. vol. 218; p. 1100.
- Hammond Typewriter Co., The. (See Lopez, Arthur, assignor.)
- Hammond, Wilberforce B., Boston, Mass. Automatic sprinkler. No. 1,162,692; Nov. 30; Gaz. vol. 220; p. 1676.
- Hammond, William H., Clifford, Mass. Handle connection. No. 1,130,272; Mar. 2; Gaz. vol. 212; p. 150.
- Hammond, William H., Clifford, Mass. Parcel-post mailing-case. No. 1,154,764; Sept. 28; Gaz. vol. 218; p. 941.
- Hammond, William H., Clifford, Mass. Shipping-case. No. 1,165,167; Dec. 21; Gaz. vol. 221; p. 937.
- Hammond, William P., New York, N. Y. Speedometer and tire-meter. No. 1,138,653; May 11; Gaz. vol. 214; p. 363.
- Hammond, William P., Passaic, N. J. Tobacco-stripping machine. No. 1,140,456; May 25; Gaz. vol. 214; p. 1070.
- Hammond, William P., Passaic, N. J. Tire-chain. No. 1,155,723; Oct. 5; Gaz. vol. 219; p. 139.
- Hammond, William P., Charlestown, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Rack. No. 1,131,235; Mar. 9; Gaz. vol. 212; p. 517.
- Hammons, Henry, and E. M. Blacksher, Brewton, Ala. Combination cement tie and rail-clamping means. No. 1,147,321; July 20; Gaz. vol. 216; p. 859.
- Hamp Williams Hardware Company. (See Cochran, Stephen J., assignor.)
- Hampden Manufacturing Company. (See Hickerson and Hemenway, assignors.)
- Hampe, Theodore M. (See Hampe and Rollin.)
- Hampe, William and T. M., and E. H. Rollin, Indianapolis, Ind. Fluid-gage for automobiles and the like. No. 1,162,352; Nov. 30; Gaz. vol. 220; p. 1564.
- Hampshire, Arthur W., Haddon Heights, N. J. Support for trolley-wheels. No. 1,125,518; Jan. 19; Gaz. vol. 210; p. 896.
- Hampton, Lemuel J., Goodlettsville, Tenn. Saw-set. No. 1,128,443; Feb. 16; Gaz. vol. 211; p. 712.
- Hampton, Marvin W., Malo, Wash. Automatic train-stopping apparatus. No. 1,132,340; Mar. 16; Gaz. vol. 212; p. 947.
- Hampton, S. B. (See Schen, William C., assignor.)
- Hampton, Willard F., assignor of one-half to F. Long, Lyons, Kans. Coach-latch. No. 1,147,322; July 20; Gaz. vol. 216; p. 859.
- Hampton, William H. (See Kayser and Hampton.)
- Hampton, William H., New York, N. Y., assignor to The Conley Electric Furnace Company, Incorporated, Wilmington, Del. Electrical furnace. No. 1,147,165; July 20; Gaz. vol. 216; p. 806.
- Hampton, William H., New York, N. Y., assignor to The Conley Electric Furnace Company, Incorporated, Wilmington, Del. Electrical furnace. No. 1,152,505; Sept. 7; Gaz. vol. 218; p. 45.
- Hamrin, Arvid E., Chicago, Ill. Clothes-stick. No. 1,128,245; Feb. 9; Gaz. vol. 211; p. 593.
- Hamsley, Lawrence B. (See Overfield, Hamsley, and Burns.)
- Hanaoka, Yoshisuki, Hilo, Hawaii. Automatic light or heat regulator. No. 1,152,412; Sept. 7; Gaz. vol. 218; p. 11.
- Hanawalt, Daniel R., assignor of one-half to M. D. Kuhlke, Akron, Ohio. Collapsible core. No. 1,164,345; Dec. 14; Gaz. vol. 221; p. 609.
- Hance, Harry T. (See Bartholomew, Thomas, assignor.)
- Hance, Willard A., assignor to Stover Manufacturing Company, Freeport, Ill. Feed-cutter. No. 1,159,935; Nov. 9; Gaz. vol. 220; p. 570.
- Hanchett, Frank. (See Ford, William H., assignor.)
- Hanchett, George T. (See Neenan, Hanchett, and Neenan.)
- Hanchett, George T., New York, N. Y. Gear-shifting device. No. 1,152,809; Sept. 7; Gaz. vol. 218; p. 157.
- Hanchett, George T., New York, N. Y., assignor to S. F. Miller, South Orange, N. J. Flush-tank. No. 1,134,126; Apr. 6; Gaz. vol. 213; p. 15.
- Hand, Charles E., St. Catharines, Ontario, Canada. Compasses or dividers. No. 1,145,016; July 6; Gaz. vol. 216; p. 14.
- Hancock, Emmanuel, and D. David, Cardiff, England. Plate for electrical or secondary batteries or accumulators. No. 1,135,641; Mar. 30; Gaz. vol. 212; p. 1502.
- Hancock, George L., Vanoy, Ga. Stamp-canceling device. No. 1,164,811; Dec. 21; Gaz. vol. 221; p. 812.
- Hancock, Harry H. (See Odell, Frederick C., assignor.)
- Hancock, Harry H., Swampscott, Mass. Receptacle. No. 1,136,421; Apr. 20; Gaz. vol. 213; p. 912.
- Hancock, Harry W., Charlotte, Mich. Air pump or compressor. No. 1,160,166; Nov. 16; Gaz. vol. 220; p. 704.
- Hancock, Harry W., Charlotte, Mich. Cuspidor. No. 1,165,968; Dec. 28; Gaz. vol. 221; p. 1254.
- Hancock, John B., Buda, Tex. Polish for woodwork and preparing the same. No. 1,153,686; Sept. 14; Gaz. vol. 218; p. 506.
- Hancock, William A., assignor to The Seymour Metal Goods Company, Seymour, Conn. Safety attachment for presses. No. 1,128,779; Feb. 16; Gaz. vol. 211; p. 827.
- Hand, Levi, Sioux Falls, S. D. Check-marker. No. 1,165,593; Dec. 28; Gaz. vol. 221; p. 1123.
- Hand, Townsend, Orlando, Fla. Wrench. No. 1,163,532; Dec. 7; Gaz. vol. 221; p. 278.
- Handel, Cornelius V., Passaic, assignor of one-third to J. F. Kerr, Paterson, N. J. Warp-beam motion for looms. No. 1,161,364; Nov. 23; Gaz. vol. 220; p. 1175.
- Handifolio Company. (See Lewis, Lawrence F., assignor.)
- Handler, Eugene, Baltimore, Md., assignor to General Industries Company, Secondary-battery element. No. 1,158,491; Nov. 2; Gaz. vol. 220; p. 27.
- Handy, A. W. (See Holmgren, Peter, assignor.)
- Handy, Aaron H., assignor of forty-eight one-hundredths to F. D. Harrison, Kansas City, Mo. Automatic paper-cutter. No. 1,159,837; Nov. 9; Gaz. vol. 220; p. 535.
- Handy, Arthur E., Brooklyn, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electric-motor brake. No. 1,134,739; Apr. 6; Gaz. vol. 213; p. 240.
- Handy Bicycle Company. (See Meiselbach, August D., assignor.)
- Handy, John P., Long Prairie, Minn. Steering-wheel control. No. 1,132,771; Mar. 23; Gaz. vol. 212; p. 1152.
- Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
- Handy Manufacturing Company. (See McGlinley, James B., assignor.)
- Handycap Company. (See Norton, Elliott S., assignor.)
- Hänel, Paul T., assignor to L. B. Lehmann, Dresden, Germany. Pot-press especially adapted for the extraction of cacao-butter or cacao-oil. No. 1,162,353; Nov. 30; Gaz. vol. 220; p. 1665.

Alphabetical list of patentees—Continued.

- Hanes, Wellington R., Chicago, Ill. Garment. No. 1,153,909; Sept. 21; Gaz. vol. 218; p. 619.
- Haney, Emma J., Seneca Falls, N. Y. Non-refillable bottle. No. 1,164,089; Dec. 14; Gaz. vol. 221; p. 520.
- Haney, Fred G., East Liverpool, Ohio. Pottery-machine. No. 1,145,767; July 6; Gaz. vol. 216; p. 277.
- Haney, John E., and E. C. Young, Indianola, Okla. Cotton-cleaner. No. 1,146,066; July 13; Gaz. vol. 216; p. 402.
- Haney, Mary C., et al. (See Haney, William, assignor.)
- Haney, William, assignor to M. C. Haney and M. E. Banta, Newark, N. J. Ballot-vote machine. No. 1,140,033; May 18; Gaz. vol. 214; p. 888.
- Hanft, John M., West Philadelphia, Pa. Awning-cord-operating protector device. No. 1,138,213; May 4; Gaz. vol. 214; p. 171.
- Hanff, Edward A., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,156,682; Oct. 12; Gaz. vol. 219; p. 498.
- Hanford, Orin A., Rochester, N. Y., assignor to Empire Machine Company, Portland, Me. Electrically-controlled blowing-head for glass-blowing machines. No. 1,123,523; Jan. 5; Gaz. vol. 210; p. 111.
- Hanford, Orin A., Rochester, N. Y., assignor to Empire Machine Company, Portland, Me. Gather-actuated controller for glass-blowing machines. No. 1,123,524; Jan. 5; Gaz. vol. 210; p. 112.
- Hanford, Orin A., Rochester, N. Y., assignor to Empire Machine Company, Portland, Me. Gather-actuated controller for glass-blowing machines. No. 1,123,525; Jan. 5; Gaz. vol. 210; p. 112.
- Hanger, Andrew S., Fishersville, Va. Spraying apparatus. No. 1,161,386; Nov. 23; Gaz. vol. 220; p. 1182.
- Hanger, Henry H., Washington, D. C. Artificial limb. No. 1,151,520; Aug. 24; Gaz. vol. 217; p. 1289.
- Hani, Negib B., Paris, France. Roller-bearing. No. 1,165,594; Dec. 28; Gaz. vol. 221; p. 1123.
- Hanitz, Hans T. R. (See Swabillius and Hanitz.)
- Hank, Cullen M., Oakland, Cal. Cheese-cover. No. 1,140,153; May 18; Gaz. vol. 214; p. 930.
- Hankins, Edward R. (See Fairchild and Hankins.)
- Hankins, Elias, Streetman, Tex. Plow. No. 1,128,604; Feb. 16; Gaz. vol. 211; p. 767.
- Hankins, Sylvester, Zealring, Iowa. Husking device. No. 1,156,478; Oct. 12; Gaz. vol. 219; p. 427.
- Hanley, William S., Chicago, Ill. Telescoping and folding tent-frame. No. 1,129,194; Feb. 23; Gaz. vol. 211; p. 1010.
- Hanlon-Gregory Galvanizing Company. (See Hanlon, John A., assignor.)
- Hanlon, John A., assignor to Hanlon-Gregory Galvanizing Company, Pittsburgh, Pa. Scraper for galvanizing-pots. No. 1,136,522; Apr. 20; Gaz. vol. 213; p. 947.
- Hanlon, John A., assignor to Hanlon-Gregory Galvanizing Company, Pittsburgh, Pa. Transfer apparatus for galvanizing-pots. No. 1,136,523; Apr. 20; Gaz. vol. 213; p. 948.
- Hanlon, John A., assignor to Hanlon-Gregory Galvanizing Company, Pittsburgh, Pa. Coating metal. No. 1,156,995; Oct. 19; Gaz. vol. 219; p. 637.
- Hanlon, John H. (See Hanlon, William J. and J. H.)
- Hanlon, William J., Fitchburg, and J. H. Hanlon, Somerville, Mass. Gage-glass. No. 1,136,468; Apr. 20; Gaz. vol. 213; p. 928.
- Hanlon, William J., Fitchburg, and J. H. Hanlon, Somerville, Mass. Gage-glass. No. 1,139,518; May 18; Gaz. vol. 214; p. 705.
- Hanly, George A., Elgin, Ill. Pneumatic valve apparatus. No. 1,152,810; Sept. 7; Gaz. vol. 218; p. 158.
- Hanly, George A., Elgin, Ill. Pneumatic valve mechanism. No. 1,152,811; Sept. 7; Gaz. vol. 218; p. 158.
- Hanly, George M., La Grange, Ill. Amalgam-mixer. No. 1,137,482; Apr. 27; Gaz. vol. 213; p. 1328.
- Hanna, Archie D. (See Vest, Harvey P., assignor.)
- Hanna, John J., Quanah, Tex. Stove. No. 1,164,510; Dec. 14; Gaz. vol. 221; p. 666.
- Hanna, Raymond G., New York, N. Y. Twin-saddle attachment for motor-cycles. No. 1,154,308; Sept. 21; Gaz. vol. 218; p. 756.
- Hannah, Elmer E., Estacada, Oreg. Safety clutch device. No. 1,153,782; Sept. 14; Gaz. vol. 218; p. 540.
- Hanneford, Limited. (See Kjaersgaard, August M., assignor.)
- Hannemann, Emil, Hermsdorf, near Berlin, Germany. Automatic feed-regulator for steam-boilers and the like. No. 1,140,742; May 25; Gaz. vol. 214; p. 1169.
- Hannen, Gustav, Corschenbroich, Germany. Charging mash-filters. No. 1,151,582; Aug. 31; Gaz. vol. 217; p. 1357.
- Hannifin Manufacturing Co. (See Schultz, Herman A., assignor.)
- Hannon, John M., Hartford, Conn. Machine for making sand molds. No. 1,158,918; Nov. 2; Gaz. vol. 220; p. 178.
- Hannon, John T., Natick, Mass. Metal protector for the foreparts of boots and shoes. No. 1,129,195; Feb. 23; Gaz. vol. 211; p. 1010.
- Hannon, John T., Natick, Mass. Metal protector for boots and shoes. No. 1,146,157; July 13; Gaz. vol. 216; p. 434.
- Hannon, Timothy B., Chicago, Ill. Hook. No. 1,143,193; June 15; Gaz. vol. 215; p. 816.
- Hannsz, Walter L., Hondo, Tex. Wrench. No. 1,156,902; Oct. 19; Gaz. vol. 219; p. 604.
- Hano, Philip, New York, N. Y. Ticket-case. No. 1,128,136; Feb. 9; Gaz. vol. 211; p. 557.
- Hanratty, Thomas H., Karns City, Pa. Well-tubing catcher. No. 1,160,073; Nov. 9; Gaz. vol. 220; p. 616.
- Hans, George H., Chicago, Ill. Roof-bracket. No. 1,159,216; Nov. 2; Gaz. vol. 220; p. 281.
- Hansch, August C., Jersey City, N. J. Apparatus for treating photographic plates. No. 1,135,111; Apr. 13; Gaz. vol. 213; p. 411.
- Hanscom, Adelbert L. (See Barrie and Hanscom.)
- Hanscom, Frank Z., Chicago, Ill. Sign or advertising device. No. 1,136,873; Apr. 20; Gaz. vol. 213; p. 1071.
- Hansel, Charles, Cranford, N. J. Time-controlled protective system for railways. No. 1,161,663; Nov. 23; Gaz. vol. 220; p. 1277.
- Hänsel, Paul, Leipzig-Gohlis, assignor to Ludwig Hupfeld Aktiengesellschaft, Böhltz-Ehrenberg, near Leipzig, Germany. Check-controlled music-playing device. No. 1,146,067; July 13; Gaz. vol. 216; p. 402.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Multiple carbid-container. No. 1,137,755; May 4; Gaz. vol. 214; p. 12.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Safety oil-can. No. 1,140,034; May 18; Gaz. vol. 214; p. 888.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Making gas-tips. No. 1,147,018; July 20; Gaz. vol. 216; p. 755.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Fire-extinguisher. No. 1,162,914; Dec. 7; Gaz. vol. 221; p. 62.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Miner's lamp. No. 1,162,915; Dec. 7; Gaz. vol. 221; p. 62.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Fire-extinguisher. No. 1,163,087; Dec. 7; Gaz. vol. 221; p. 123.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Igniting device. No. 1,151,521; Aug. 24; Gaz. vol. 217; p. 1289.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Portable acetylene-lamp. No. 1,161,209; Nov. 23; Gaz. vol. 220; p. 1118.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene-lamp. No. 1,165,969; Dec. 28; Gaz. vol. 221; p. 1254.
- Hansen, Charles, Johannesburg, Transvaal, South Africa. Attachment for rock-drills for supplying water thereto. No. 1,138,214; May 4; Gaz. vol. 214; p. 172.
- Hansen, Charles A., Elizabeth, N. J., assessor to A. H. Bamberger, New York, N. Y. Fabric connection. No. 1,135,112; Apr. 13; Gaz. vol. 213; p. 411.
- Hansen, Charles A., Elizabeth, N. J., assignor to A. H. Bamberger, New York, N. Y. Sewing-machine attachment. No. 1,157,384; Oct. 19; Gaz. vol. 219; p. 776.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive drill. No. 1,154,921; Sept. 28; Gaz. vol. 218; p. 993.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Coal-mining machine. No. 1,154,922; Sept. 28; Gaz. vol. 218; p. 994.
- Hansen, Charles E., Providence, R. I. Cigarette-case. No. 1,129,484; Feb. 23; Gaz. vol. 211; p. 1113.
- Hansen, Christian, and A. Weindel, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Producing acetic acid from acetylene. No. 1,128,780; Feb. 16; Gaz. vol. 211; p. 828.
- Hansen, Christian, and A. Weindel, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Producing acetic acid from acetylene by electrolysis. No. 1,159,376; Nov. 9; Gaz. vol. 220; p. 368.
- Hansen, Christoph W. F. (See Schmidt, Hans, assignor.)
- Hansen, Christoph W. F., Flensburg, Germany. Automatic disengaging device for belt-pulleys. No. 1,148,018; July 27; Gaz. vol. 216; p. 1132.
- Hansen, Edward M. E., St. Louis, Mo. Chemical fire-extinguisher. No. 1,165,502; Dec. 28; Gaz. vol. 221; p. 1091.
- Hansen, Eigil A., Copenhagen, Denmark. Centrifugal pump. No. 1,143,957; June 22; Gaz. vol. 215; p. 1103.
- Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Hydraulic coupling. No. 1,127,758; Feb. 9; Gaz. vol. 211; p. 423.
- Hansen-Ellehammer, Jacob C., and N. W. Aasen, Copenhagen, Denmark. Aerial machine. No. 1,155,485; Oct. 5; Gaz. vol. 219; p. 57.
- Hansen, Elmer, Racine, Wis. Gas-engine. No. 1,162,054; Nov. 30; Gaz. vol. 220; p. 1460.
- Hansen, Emil, Flensburg, assignor to Bergedorfer Elsenwerk Aktiengesellschaft, Bergedorf, Germany. Mechanism on butter-finishers for working out buttermilk or water. No. 1,137,612; Apr. 27; Gaz. vol. 213; p. 1371.
- Hansen, Frederick H., and T. Thompson, Joliet, Ill. Combination tie-plate and rail-anchor. No. 1,159,838; Nov. 9; Gaz. vol. 220; p. 535.

Alphabetical list of patentees—Continued.

- Hansen, George, Winston, Mont. Cutting apparatus. No. 1,139,179; May 11; Gaz. vol. 214; p. 552.
- Hansen, H. C., *et al.* (See Juel, Peter J., assignor.)
- Hansen, Hans A., and J. M. Schmueser, Smuggler, Colo. Lining for pebble or ball mills. No. 1,153,844; Sept. 14; Gaz. vol. 218; p. 563.
- Hansen, Hans H., Chicago, Ill. Electric snap-switch. No. 1,126,455; Jan. 26; Gaz. vol. 210; p. 1265.
- Hansen, Hans M., Quincy, Mass. Shoe-tread. No. 1,127,990; Feb. 9; Gaz. vol. 211; p. 505.
- Hansen, Hans P., White City, Fla. Bench-dog. No. 1,161,858; Nov. 30; Gaz. vol. 220; p. 1391.
- Hansen, Hans W. (See Winquist, Andrew T., assignor.)
- Hansen, Harvey F. (See Baker and Hansen.)
- Hansen, Harvey F., assignor to Bean Spray Pump Company, San Jose, Cal. Pressure-relieving device for pumps, &c. No. 1,135,579; Apr. 13; Gaz. vol. 213; p. 573.
- Hansen, Holger, New York, N. Y. Lubricator. No. 1,133,375; Mar. 30; Gaz. vol. 212; p. 1406.
- Hansen, Johan, Tonopah, Nev. Miner's candlestick. No. 1,163,912; Dec. 14; Gaz. vol. 221; p. 456.
- Hansen, John M., assignor to Forged Steel Wheel Company, Pittsburgh, Pa. Apparatus for manufacture of car and similar wheels. No. 1,142,419; June 8; Gaz. vol. 215; p. 506.
- Hansen, John S., Brockton, Mass., assignor to O. A. Miller Treeling Machine Company, Portland, Me. Creasing-machine. No. 1,126,755; Feb. 2; Gaz. vol. 211; p. 33.
- Hansen, John S., Brockton, Mass., assignor to O. A. Miller Treeling Machine Company, Portland, Me. Shoe-ironing apparatus. No. 1,134,264; Apr. 6; Gaz. vol. 213; p. 67.
- Hansen, John S., Brockton, Mass., assignor to O. A. Miller Treeling Machine Company, Portland, Me. Electrically-heated tool. No. 1,136,127; Apr. 20; Gaz. vol. 213; p. 805.
- Hansen, Lewis E., Blair, Nebr. Harrow. No. 1,144,125; June 22; Gaz. vol. 215; p. 1164.
- Hansen, Marinus, New York, N. Y. Machine for grooving lenses. No. 1,145,194; July 6; Gaz. vol. 216; p. 77.
- Hansen, Marius H., Chicago, Ill. Weighing-scale and other measuring instrument. No. 1,141,629; June 1; Gaz. vol. 215; p. 192.
- Hansen, Martin, New York, N. Y. Bottle-stopper. No. 1,151,358; Aug. 24; Gaz. vol. 217; p. 1233.
- Hansen, Olaf H., Glasgow, Mont. Shoe-fastening. No. 1,131,509; Mar. 9; Gaz. vol. 212; p. 613.
- Hansen, Oscar F., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,134,528; Apr. 6; Gaz. vol. 213; p. 162.
- Hansen, Peter, Chicago, Ill. Combined weeder and cultivator. No. 1,163,660; Dec. 14; Gaz. vol. 221; p. 368.
- Hansgen, Charles, New York, N. Y. Register. No. 1,144,412; June 29; Gaz. vol. 215; p. 1292.
- Hanshaw, Charles H., assignor of one-half to J. Nielsen, Beloit, Wis. Strainer attachment for pumps. No. 1,140,678; May 25; Gaz. vol. 214; p. 1147.
- Hansmann Manufacturing Company. (See Griep, Henry, Jr., assignor.)
- Hanson, Albert S., Billings, Mont. Hot-blast system. No. 1,123,526; Jan. 5; Gaz. vol. 210; p. 112.
- Hanson, Anders C., Red Oak, Iowa. Wire-stretcher. No. 1,156,597; Oct. 12; Gaz. vol. 219; p. 467.
- Hanson, August, Providence, R. I. Micrometer-indicator. No. 1,162,289; Nov. 30; Gaz. vol. 220; p. 1542.
- Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-screw machine. No. 1,132,642; Mar. 30; Gaz. vol. 212; p. 1503.
- Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-screw machine. No. 1,140,323; May 18; Gaz. vol. 214; p. 987.
- Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-screw machine. No. 1,140,324; May 18; Gaz. vol. 214; p. 988.
- Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-screw machine. No. 1,140,325; May 18; Gaz. vol. 214; p. 988.
- Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Clutch mechanism. No. 1,140,326; May 18; Gaz. vol. 214; p. 989.
- Hanson, Bennie P., Monticello, assignor of one-half to L. Genard, Bancroft, Iowa. Neck-yoke. No. 1,134,968; Apr. 6; Gaz. vol. 213; p. 315.
- Hanson, Bennie P., Monticello, assignor of one-half to L. Genard, Bancroft, Iowa. Tongue construction. No. 1,134,969; Apr. 6; Gaz. vol. 213; p. 316.
- Hanson, Bennie P., Monticello, assignor of one-half to L. Genard, Bancroft, Iowa. Whidletree. No. 1,137,712; Apr. 27; Gaz. vol. 213; p. 1402.
- Hanson, Charles A., Donovan, Ill. Wire-winding machine. No. 1,142,035; June 8; Gaz. vol. 215; p. 371.
- Hanson, Edwin E., Seattle, Wash. Igniting implement. No. 1,146,158; July 13; Gaz. vol. 216; p. 434.
- Hanson, Hans P. (See Miner, Raymond C., assignor.)
- Hanson, Harry C., South Pasadena, Cal. Tire-pump. No. 1,142,701; June 8; Gaz. vol. 215; p. 602.
- Hanson, Henry, Middletown, Conn. Windlass brake mechanism. No. 1,140,374; May 25; Gaz. vol. 214; p. 1041.
- Hanson, Henry, Emmons, Minn. Obstetrical tractor. No. 1,151,583; Aug. 31; Gaz. vol. 217; p. 1357.
- Hanson, Hjalmar I., Summit, S. D. Saw-filing machine. No. 1,165,248; Dec. 21; Gaz. vol. 221; p. 965.
- Hanson, Joseph C., Merville, Iowa. Trolley-wheel guard. No. 1,124,428; Jan. 12; Gaz. vol. 210; p. 471.
- Hanson, Lennie A., and G. W. Hall, Deering, N. D. Heating system for automobile steering-gear wheels. No. 1,145,308; July 6; Gaz. vol. 216; p. 115.
- Hanson, Louis, Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-stay. No. 1,130,815; Mar. 9; Gaz. vol. 212; p. 373.
- Hanson, Martin, assignor to Louis Hanson Company, Chicago, Ill. Adjustable chair. No. 1,124,429; Jan. 12; Gaz. vol. 210; p. 472.
- Hanson, Nathan E., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Ruffling and sewing machine. No. 1,143,903; June 22; Gaz. vol. 215; p. 1084.
- Hanson, Otto, Bruno, Minn. Chair attachment. No. 1,156,776; Oct. 12; Gaz. vol. 219; p. 530.
- Hanson, Paul, Wild Horse, Colo. Butter-making machine. No. 1,131,778; Mar. 16; Gaz. vol. 212; p. 742.
- Hanson, Paul, Wild Horse, Colo. Automatic counter and stop device. No. 1,147,798; July 27; Gaz. vol. 216; p. 1053.
- Hanson, Paul, Wild Horse, Colo. Manure-spreader. No. 1,148,314; July 27; Gaz. vol. 216; p. 1238.
- Hanson, Samuel L., Albert Lea, Minn. Hay-carrier. No. 1,132,716; Mar. 23; Gaz. vol. 212; p. 1131.
- Hanson, Thomas R., Tuscaloosa, Ala. Dirigible headlight. No. 1,158,207; Oct. 26; Gaz. vol. 219; p. 1126.
- Hanssen, Carl, *et al.* (See Kekich, Thomas M., assignor.)
- Hansson, Soren, and I. Moeller, assignors of one-third to H. B. Douglas, New Glasgow, Nova Scotia, Canada. Car-roof. No. 1,155,807; Oct. 5; Gaz. vol. 219; p. 169.
- Hansson, Soren, and I. Moeller, assignors of one-third to H. B. Douglas, New Glasgow, Nova Scotia, Canada. Draft-gear. No. 1,155,808; Oct. 5; Gaz. vol. 219; p. 169.
- Hansson, Soren, and I. Moeller, New Glasgow, Nova Scotia, Canada, assignors of one-third to H. B. Douglas. Car-underframe. No. 1,164,644; Dec. 21; Gaz. vol. 221; p. 753.
- Hautz, Emil G., South Connellsville, Pa. Reveal-protractor and depth-gage for die-makers. No. 1,141,391; June 1; Gaz. vol. 215; p. 109.
- Haus, Ewald, Tegel, near Berlin, Germany. Ball-grinding machine. No. 1,124,018; Jan. 5; Gaz. vol. 210; p. 278.
- Hanzlik, Henry J., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Rotary fluid-pressure motor. No. 1,123,527; Jan. 5; Gaz. vol. 210; p. 113.
- Hanzlik, Henry J., assignor to De Laval Steam Turbine Company, Trenton, N. J. Shroud and bucket. No. 1,152,812; Sept. 7; Gaz. vol. 218; p. 159.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Scale. No. 1,142,165; June 8; Gaz. vol. 215; p. 416.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,166,128; Dec. 28; Gaz. vol. 221; p. 1312.
- Hapgood, Cyrus H., Boston, Mass., assignor to Montclair Refrigerating Corporation, New York, N. Y. Refrigerating apparatus. No. 1,131,130; Mar. 9; Gaz. vol. 212; p. 481.
- Hapgood, Oscar D., Orange, assignor to Goodell-Pratt Company, Greenfield, Mass. Breast-drill. No. 1,157,218; Oct. 19; Gaz. vol. 219; p. 717.
- Hapgood, Oscar D., Orange, assignor to Goodell-Pratt Company, Greenfield, Mass. Tool. No. 1,166,364; Dec. 28; Gaz. vol. 221; p. 1398.
- Harbaugh, Charles, and C. C. Brosius, Johnstown, Pa. Railway-tie. No. 1,158,919; Nov. 2; Gaz. vol. 220; p. 178.
- Harbaugh, Howard E., Kenosha, Wis. Sheet-feeding mechanism. No. 1,127,991; Feb. 9; Gaz. vol. 211; p. 506.
- Harbec, Charles J., Alma, Mont. Bridle-bit. No. 1,129,196; Feb. 23; Gaz. vol. 211; p. 1011.
- Harbeck, Jervis R., assignor, by mesne assignments, to Detroit Can Company, Detroit, Mich. Package-heading machine. No. 1,123,528; Jan. 5; Gaz. vol. 210; p. 114.
- Harbeck, Jervis R., assignor, by mesne assignments, to Detroit Can Company, Detroit, Mich. Cap-ferrule for paper boxes. No. 1,130,816; Mar. 9; Gaz. vol. 212; p. 373.
- Harbeck, Jervis R., assignor to Detroit Can Company, Detroit, Mich. Hinged-cover container. No. 1,148,676; Aug. 3; Gaz. vol. 217; p. 70.
- Harbeck, Jervis R., Chicago, Ill., assignor to American Can Company, New York, N. Y. Vessel-closure. No. 1,152,413; Sept. 7; Gaz. vol. 218; p. 11.
- Harbers, Theodor, Leipzig, Germany. Photographic-printing apparatus. No. 1,156,528; Oct. 12; Gaz. vol. 219; p. 444.
- Harberson, Edward M., Los Angeles, Cal. Base-ball machine. No. 1,144,472; June 29; Gaz. vol. 215; p. 1313.
- Harbin, Joseph T., St. Johns, Ore. Clothes-reel. No. 1,156,286; Oct. 12; Gaz. vol. 219; p. 357.
- Harbke, William H., Portland, Ore. Shoe-stretcher. No. 1,157,982; Oct. 26; Gaz. vol. 219; p. 1047.

- Harbour, Ernest D., Rockford, N. C. Mainspring-releasing device. No. 1,165,249; Dec. 21; Gaz. vol. 221; p. 966.
- Harbrecht, William F., assignor to Hinde & Dauch Paper Company, Sandusky, Ohio. Apparatus for manufacturing corrugated paper-board. No. 1,144,413; June 29; Gaz. vol. 215; p. 1292.
- Harbridge, Chester C., assignor to Detroit Demountable Rim Company, Detroit, Mich. Tool for demountable rims. No. 1,127,236; Feb. 2; Gaz. vol. 211; p. 202.
- Harbridge, Chester C., assignor to Detroit Demountable Rim Co., Detroit, Mich. Demountable rim. No. 1,154,629; Sept. 23; Gaz. vol. 218; p. 895.
- Harbridge, Chester C., Chicago, Ill., assignor to Detroit Demountable Rim Co., Detroit, Mich. Demountable rim. No. 1,165,094; Dec. 21; Gaz. vol. 221; p. 910.
- Harbridge, Chester C., assignor to Detroit Demountable Rim Co., Detroit, Mich. Demountable rim. No. 1,165,095; Dec. 21; Gaz. vol. 221; p. 911.
- Harbridge, Chester C., assignor to Detroit Demountable Rim Co., Detroit, Mich. Demountable rim. No. 1,165,096; Dec. 21; Gaz. vol. 221; p. 911.
- Harburger, Richard. (See Hirschfeld and Harburger.)
- Harcke, Gustav E., assignor to American Pin Company, Waterbury, Conn. Safety-pin machine. No. 1,126,202; Jan. 26; Gaz. vol. 210; p. 1176.
- Hard, Merrill W., Dayton, assignor to W. F. Eckart, Cleveland, Ohio. Terrestrial globe. No. 1,157,219; Oct. 19; Gaz. vol. 219; p. 717.
- Harden, Emmett S., Casey, Iowa. Foot-lever-holding mechanism. No. 1,154,012; Sept. 21; Gaz. vol. 218; p. 654.
- Harden, Frederick W. (See Parks, William H., assignor.)
- Harden, Frederick W., Pikesville, Md. Hair-skimming machine. No. 1,147,719; July 27; Gaz. vol. 216; p. 1027.
- Harden, Frederick W., Pikesville, Md. Cleaning hair. No. 1,147,720; July 27; Gaz. vol. 216; p. 1027.
- Harden, Ray, Lane, S. D. Device for stringing corn. No. 1,135,791; Apr. 13; Gaz. vol. 213; p. 647.
- Hardenbrook, Charles E., Philadelphia, Pa. Work-holder for label-affixing machines. No. 1,149,646; Aug. 10; Gaz. vol. 217; p. 519.
- Hardenbrook, Leon G., Lynden, assignor of one-third to W. R. St. John, Alger, Wash. Method and means for repairing pneumatic tires. No. 1,136,900; Apr. 20; Gaz. vol. 213; p. 1081.
- Harder, Harry E. (See Scanlan, Daniel, assignor.)
- Harder, Herman, Bellingham, Wash. Automatic brake for railway-cars. No. 1,127,886; Feb. 9; Gaz. vol. 211; p. 470.
- Hardesty, Blair, Clifton Forge, Va., assignor to Landis Machine Company, St. Louis, Mo. Work-guide for sewing-machines. No. 1,143,701; June 22; Gaz. vol. 215; p. 1016.
- Hardesty, Charles, Clarksburg, W. Va. Foot-toe cushion and shield. No. 1,129,670; Feb. 23; Gaz. vol. 211; p. 1175.
- Hardey, Frank J., *et al.* (See Fuqua and Johnson, assignors.)
- Hardie, Frank. (See Coburn and Hardie.)
- Hardie, Henry H., assignor to The Hardie Manufacturing Company, Hudson, Mich. Fruit-grader. No. 1,148,165; July 27; Gaz. vol. 216; p. 1188.
- Hardie, Herbert J., Winnipeg, Manitoba, Canada. Mold for tire-fillers. No. 1,139,276; May 11; Gaz. vol. 214; p. 584.
- Hardie, James G., Worcester, Mass. Registering device for paper-feeding mechanisms. No. 1,144,937; June 29; Gaz. vol. 215; p. 1471.
- Hardie Manufacturing Company, The. (See Hardie, Henry H., assignor.)
- Hardie, Robert W., Larchmont, N. Y. Air-moistener. No. 1,151,938; Aug. 31; Gaz. vol. 217; p. 1479.
- Hardin, George W., Hope, N. D. Commode. No. 1,150,862; Aug. 24; Gaz. vol. 217; p. 1066.
- Harding, Albert J., *et al.* (See Timbrell, John H., assignor.)
- Harding, Charles T., Fayette, Ark. Pump. No. 1,166,365; Dec. 28; Gaz. vol. 221; p. 1399.
- Harding, Charles T. and E. W., Fayetteville, Ark. Automobile-lock. No. 1,165,776; Dec. 28; Gaz. vol. 221; p. 1188.
- Harding, Clara T., Blairsville, Pa. Can-opener. No. 1,125,020; Jan. 12; Gaz. vol. 210; p. 683.
- Harding, Eugene W. (See Harding, Charles T. and E. W.)
- Harding, Frank, San Diego, Cal. Combination-retainer. No. 1,136,331; Apr. 20; Gaz. vol. 213; p. 873.
- Harding, George, Spokane, Wash. Position-indicator for elevators. No. 1,135,014; Apr. 13; Gaz. vol. 213; p. 377.
- Harding, John W., assignor to Brockway Machine Bottle Company, Brockwayville, Pa. Glass-running-out device. No. 1,150,030; Aug. 17; Gaz. vol. 217; p. 717.
- Harding, Milton E. (See Robinson and Harding.)
- Hardinge Conical Mill Company. (See Hardinge, Harry W., assignor.)
- Hardinge, Harry W., assignor to Hardinge Conical Mill Company, New York, N. Y. Sizing apparatus. No. 1,149,826; Aug. 10; Gaz. vol. 217; p. 583.
- Hardinge, Harry W., assignor to Hardinge Conical Mill Company, New York, N. Y. Apparatus for disintegrating ore and other material. No. 1,161,859; Nov. 30; Gaz. vol. 220; p. 1391.
- Hardinge, Henry H., Chicago, Ill., assignor, by *mesne assignments*, to J. Cratty. Composing-machine. No. 1,131,643; Mar. 9; Gaz. vol. 212; p. 661.
- Hardisty, Frank, assignor of one-half to C. B. Williams, Frankfort, Ind. Electric clock. No. 1,164,511; Dec. 14; Gaz. vol. 221; p. 667.
- Hardisty, Henry, Raymond, assignor of one-half to E. Pierson, South Bend, Wash. Logging-hook. No. 1,139,761; May 18; Gaz. vol. 214; p. 790.
- Hardisty, Henry, Raymond, assignor of one-half to E. Pierson, South Bend, Wash. Choker-hook. No. 1,141,333; June 1; Gaz. vol. 215; p. 87.
- Hardisty, Henry, Raymond, assignor of one-half to E. Pierson, South Bend, Wash. Nut-locking device. No. 1,141,334; June 1; Gaz. vol. 215; p. 88.
- Hardisty, Henry, Raymond, assignor of one-half to E. Pierson, South Bend, Wash. Rail-joint. No. 1,159,377; Nov. 9; Gaz. vol. 220; p. 368.
- Hardsoeg, Fred B., Ottumwa, Iowa. Grass-hook. No. 1,124,895; Jan. 12; Gaz. vol. 210; p. 640.
- Hardsoeg, Fred B., Ottumwa, Iowa. Trowel. No. 1,125,844; Jan. 19; Gaz. vol. 210; p. 1012.
- Hardt, Henry B. (See Bowen, Aaron L., assignor.)
- Hardtke, Edward, assignor to W. S. Seaman Company, Milwaukee, Wis. Collapsible seat. No. 1,165,250; Dec. 21; Gaz. vol. 221; p. 966.
- Hardwick, John W. (See Powell and Hardwick.)
- Hardy, A. B. C. (See Trumble, John T., assignor.)
- Hardy, Albert H., and S. Davies, Pontardawe, Swansea Valley, Wales. Bearing block or brass. No. 1,146,702; July 13; Gaz. vol. 216; p. 624.
- Hardy, Albert H., and S. Davies, Pontardawe, Swansea Valley, Wales. Bearing block or brass. No. 1,146,703; July 13; Gaz. vol. 216; p. 624.
- Hardy, Charles S., San Diego, Cal. Sheet-metal can. No. 1,160,074; Nov. 9; Gaz. vol. 220; p. 617.
- Hardy, Clement A., Chicago, Ill. Tire. No. 1,130,273; Mar. 2; Gaz. vol. 212; p. 150.
- Hardy, Emery E., Bayside, N. Y. Roller-skate. No. 1,152,813; Sept. 7; Gaz. vol. 218; p. 159.
- Hardy, Frank H. (See Lambert and Hardy.)
- Hardy, Frederick, Columbia, Tenn. Necktie-press. No. 1,123,736; Jan. 5; Gaz. vol. 210; p. 183.
- Hardy, George W., Baltimore, Md. Tire-armor. No. 1,138,559; May 4; Gaz. vol. 214; p. 292.
- Hardy, James F., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Dental-broaching machine. No. 1,124,728; Jan. 12; Gaz. vol. 210; p. 580.
- Hardy, Parrott M., Aurora, N. C. Whiffletree-hook. No. 1,129,671; Feb. 23; Gaz. vol. 211; p. 1176.
- Hardy, Paul, Elkhart, Ind. Musical-instrument valve. No. 1,147,166; July 20; Gaz. vol. 216; p. 806.
- Hardy, Paul C., assignor to C. G. Conn, Inc., Elkhart, Ind. Making key-seats on wind musical instruments. No. 1,153,489; Sept. 14; Gaz. vol. 218; p. 437.
- Hardy, Paul C., assignor to C. G. Conn, Elkhart, Ind. Saxophone. No. 1,166,046; Dec. 28; Gaz. vol. 221; p. 1281.
- Hardy, Soula G., assignor of one-half to Q. V. Bridwell, Ripley, Okla. Clutch. No. 1,163,085; Dec. 7; Gaz. vol. 221; p. 122.
- Hare, Leroy J., Braughton, Kans. Button. No. 1,134,847; Apr. 6; Gaz. vol. 213; p. 275.
- Hareland, Ludwig, Hannaford, N. D. Wagon attachment. No. 1,124,019; Jan. 5; Gaz. vol. 210; p. 278.
- Harford, Havelock, Port Alberni, British Columbia, Canada. Air-compressor. No. 1,138,215; May 4; Gaz. vol. 214; p. 172.
- Harfst, Henry, *et al.* (See Woolf, Frank H., assignor.)
- Hargrave, Fred W., South River, and J. A. Wheeler, Somerset county, N. J., assignors to W. T. Elkinton, Philadelphia, Pa. Fireproof door. No. 1,163,913; Dec. 14; Gaz. vol. 221; p. 457.
- Hargrave, Fred W., South River, and J. A. Wheeler, Somerset county, N. J., assignors to W. T. Elkinton, Philadelphia, Pa. Fireproof door. No. 1,163,914; Dec. 14; Gaz. vol. 221; p. 458.
- Hargrave, John M., Cincinnati, Ohio. Tool-holding jaw. No. 1,161,210; Nov. 23; Gaz. vol. 220; p. 1119.
- Hargraves, Florence, Foster, Cal. Shock-absorber for shipping and storing receptacles. No. 1,147,628; July 20; Gaz. vol. 216; p. 969.
- Hargreaves, Albert. (See Hargreaves, George W., R., and A.)
- Hargreaves, George W., R., and A., Blackburn, England. Moistening device. No. 1,146,249; July 13; Gaz. vol. 216; p. 466.
- Hargreaves, Robert. (See Hargreaves, George W., R., and A.)
- Harker, Frederick. (See Wall and Harker.)
- Harkin, Walter J., Seattle, Wash. Internal-combustion engine. No. 1,151,178; Aug. 24; Gaz. vol. 217; p. 1173.
- Harkness, Albert E., Bradford, Pa. Reamer. No. 1,146,250; July 13; Gaz. vol. 216; p. 466.
- Harkness, Ross, St. Clair Heights, Mich. Sewer-trap. No. 1,140,815; May 25; Gaz. vol. 214; p. 1194.

Alphabetical list of patentees—Continued.

- Harkness, William E., East Orange, N. J. Remote-control high-potential switch. No. 1,142,252; June 8; Gaz. vol. 215; p. 447.
- Harkrader, Calvin F., and G. A. Manyan, assignors of one-third to M. McKellips, Tancred, Cal. Plow. No. 1,123,280; Jan. 5; Gaz. vol. 210; p. 26.
- Harlan, Claud E., assignor of one-half to W. H. Ames, Watsonville, Cal. Sparking indicator. No. 1,140,816; May 25; Gaz. vol. 214; p. 1194.
- Harlan, Claud E., assignor of one-half to W. H. Ames, Watsonville, Cal. Sparking indicator. No. 1,166,366; Dec. 28; Gaz. vol. 221; p. 1399.
- Harlan, George W., Otterville, Mo. Spring vehicle-wheel. No. 1,123,529; Jan. 5; Gaz. vol. 210; p. 114.
- Harlan, William G., Centralia, Wash. Railway-switch. No. 1,132,717; Mar. 23; Gaz. vol. 212; p. 1132.
- Harleman, Thomas J., Packerton, Pa. Car-replacer. No. 1,164,512; Dec. 14; Gaz. vol. 221; p. 667.
- Harless, Charles R. and J. N., Dayton, Wash. Machine for treating grain. No. 1,148,087; July 27; Gaz. vol. 216; p. 1158.
- Harless, Jasper N. (See Harless, Charles R. and J. N.)
- Harley-Davidson Motor Co. (See Harley, William S., assignor.)
- Harley, Robert J., Reed City, Mich. Mail-bag receiving and delivering apparatus. No. 1,141,793; June 1; Gaz. vol. 215; p. 248.
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Transmission-gearing. No. 1,137,134; Apr. 27; Gaz. vol. 213; p. 1203.
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Engine-starter. No. 1,137,314; Apr. 27; Gaz. vol. 213; p. 1268.
- Harlin, Harry W., Hermleigh, Tex. Section-harrow. No. 1,137,857; May 4; Gaz. vol. 214; p. 47.
- Harloe, Morton, Winchester, Va. Filtering-faucet. No. 1,149,911; Aug. 10; Gaz. vol. 217; p. 614.
- Harlow, George, Timperley, and K. M. Faye-Hansen, Stretford, England, assignors to Westinghouse Electric and Manufacturing Company. Protective apparatus for alternating-current-distribution systems. No. 1,151,783; Aug. 31; Gaz. vol. 217; p. 1426.
- Harman, Arthur C. (See Patton, George E., assignor.)
- Harman, Charles F., Enterline, Pa. Pocket-case. No. 1,129,485; Feb. 23; Gaz. vol. 211; p. 1113.
- Harmon, Alton D., Cambridge Springs, Pa. Calculating-machine. No. 1,136,797; Apr. 20; Gaz. vol. 213; p. 1044.
- Harmon, Elmer L., Pittsburgh, Pa. Poster-mounting. No. 1,128,781; Feb. 16; Gaz. vol. 211; p. 828.
- Harmon, Elmer L., Pittsburgh, Pa. Mounting apparatus. No. 1,146,792; July 20; Gaz. vol. 216; p. 676.
- Harmon, Frank L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 1,161,860; Nov. 30; Gaz. vol. 220; p. 1392.
- Harmon, John C., and C. F. Warning, Oshkosh, Wis. Insect-destroyer. No. 1,125,519; Jan. 19; Gaz. vol. 210; p. 896.
- Harmon, William H., Chicago, Ill. Watch-guard. No. 1,159,494; Nov. 9; Gaz. vol. 220; p. 411.
- Harmon, William R., Oak Hill, Fla. Whip-holder. No. 1,142,703; June 8; Gaz. vol. 215; p. 603.
- Harnack, Albert J., Pittsburgh, Pa. Flash-light. No. 1,148,839; Aug. 3; Gaz. vol. 217; p. 127.
- Harnden, Glen C., Kansas City, Mo. Seed-testing device. No. 1,123,281; Jan. 5; Gaz. vol. 210; p. 24.
- Harner, Daniel W., *et al.* (See Boudwin, Edward H., assignor.)
- Harnishfeger, Alexander, assignor to Rimolox Tire Carrier Co., Evansville, Ind. Tire-carrier. No. 1,141,185; June 1; Gaz. vol. 215; p. 33.
- Harnly, David H., Austin, Ill. Screw-setting instrument. No. 1,155,724; Oct. 5; Gaz. vol. 219; p. 139.
- Harnsberger, John B., and C. H. Trout, Front Royal, Va. Heat-guard for automobiles. No. 1,149,047; Aug. 3; Gaz. vol. 217; p. 199.
- Harp, Albert W., Angels Camp, Cal. Ore-belt edger. No. 1,126,456; Jan. 26; Gaz. vol. 210; p. 1265.
- Harp, Charles B., Los Angeles, Cal. Building construction. No. 1,142,093; June 8; Gaz. vol. 215; p. 392.
- Harp, Charles B., Los Angeles, Cal. Building-tie. No. 1,146,251; July 13; Gaz. vol. 216; p. 467.
- Harper, Charles S., assignor of one-fourth to J. P. Sewell, Indianapolis, Ind. Sanitary cuspidor. No. 1,125,093; Jan. 19; Gaz. vol. 210; p. 744.
- Harper, Charles W., Reno, Nev. Billiard-chalk holder. No. 1,133,471; Mar. 30; Gaz. vol. 212; p. 1439.
- Harper, Ella S., New Brighton, N. Y. Reducer. No. 1,130,164; Mar. 2; Gaz. vol. 212; p. 112.
- Harper, Fred H., Wichita, Kans. Fireless cooker. No. 1,136,600; Apr. 20; Gaz. vol. 213; p. 974.
- Harper, Frederick D., Everett, Mass. Producing manganese dioxido. No. 1,157,530; Oct. 19; Gaz. vol. 219; p. 827.
- Harper, Frederick D., Everett, Mass. Manufacture of dry batteries for flash-lights and other purposes. No. 1,157,531; Oct. 19; Gaz. vol. 219; p. 828.
- Harper, George A., Oil City, Pa. Well-pumping apparatus. No. 1,150,188; Aug. 17; Gaz. vol. 217; p. 774.
- Harper, H. T. (See Quinn, John L., assignor.)
- Harper, James M., assignor to Harper Supply Company, Chicago, Ill. Nutcracker. No. 1,134,265; Apr. 6; Gaz. vol. 213; p. 67.
- Harper, James M., assignor to Harper Supply Company, Chicago, Ill. Nut-dish. No. 1,138,288; May 4; Gaz. vol. 214; p. 198.
- Harper, Jesse B., Timmons ville, S. C. Truck. No. 1,126,457; Jan. 26; Gaz. vol. 210; p. 1266.
- Harper, Jesse B., assignor of one-half to W. L. Copeland, Timmons ville, S. C. Automatic sash-lock. No. 1,163,086; Dec. 7; Gaz. vol. 221; p. 122.
- Harper, John P., and A. W. Krupp, Philadelphia, Pa. Egg-carrier. No. 1,125,313; Jan. 19; Gaz. vol. 210; p. 824.
- Harper, Leslie D. (See Long and Harper.)
- Harper Supply Company. (See Harper, James M., assignor.)
- Harper, Sylvester Q., Fayetteville, Ga. Two-row attachment for fertilizer-distributors. No. 1,157,532; Oct. 19; Gaz. vol. 219; p. 828.
- Harper, T. W. (See Huffman, Orla L., assignor.)
- Harper, William P., assignor of one-half to J. S. Duffly, Abilene, Kans. Cultivator. No. 1,139,118; May 11; Gaz. vol. 214; p. 531.
- Harpst, Frederick E., assignor of twenty-five one-hundredths to W. O. Ilfrey, Houston, Tex. Rotary-valve mechanism. No. 1,141,958; June 8; Gaz. vol. 215; p. 342.
- Harrel, Elbert B., New Orleans, La. Railway package-transferring device. No. 1,153,071; Sept. 7; Gaz. vol. 218; p. 250.
- Harreld, Benjamin E., Eldon, Iowa. Revolving clothes-drier. No. 1,159,217; Nov. 2; Gaz. vol. 220; p. 281.
- Harrell, Jesse F., Indianapolis, Ind. Reflected-light-diminishing apparatus. No. 1,139,277; May 11; Gaz. vol. 214; p. 584.
- Harrell, John W., Birmingham, Ala. Dipper-tooth. No. 1,126,759; Feb. 2; Gaz. vol. 211; p. 34.
- Harrell, William B., Baldwin, Fla. Read device. No. 1,149,912; Aug. 10; Gaz. vol. 217; p. 614.
- Harrell, William B., Baldwin, Fla. Skate. No. 1,154,510; Sept. 21; Gaz. vol. 218; p. 824.
- Harrier, Richard G., Duff, Nebr. Wagon-pole attachment. No. 1,145,309; July 6; Gaz. vol. 216; p. 116.
- Harrigan, Archibald, Grand Rapids, Mich. Drilling and blasting gage. No. 1,155,355; Oct. 5; Gaz. vol. 219; p. 11.
- Harriman, John E., Jr., Brookline, Mass. Aeromobile. No. 1,161,664; Nov. 23; Gaz. vol. 220; p. 1277.
- Harrington, Arthur C., Monon, Ind. Article-delivering machine. No. 1,124,729; Jan. 12; Gaz. vol. 210; p. 580.
- Harrington, Arthur C., Monon, Ind. Vise. No. 1,124,730; Jan. 12; Gaz. vol. 210; p. 580.
- Harrington, Arthur C., Monon, Ind. Anvil. No. 1,124,731; Jan. 12; Gaz. vol. 210; p. 581.
- Harrington, Arthur M., and P. Mullen, assignors to Edwin Harrington, Son & Co., Inc., Philadelphia, Pa. Hoist. No. 1,143,958; June 22; Gaz. vol. 215; p. 1104.
- Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signal. No. 1,127,199; Feb. 2; Gaz. vol. 211; p. 183.
- Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 1,132,473; Mar. 16; Gaz. vol. 212; p. 994.
- Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signal. No. 1,157,102; Oct. 19; Gaz. vol. 219; p. 675.
- Harrington, Cornelius J., assignor to Harrington Manufacturing Company, Boston, Mass. Self-opening die. No. 1,154,568; Sept. 21; Gaz. vol. 218; p. 844.
- Harrington, Daniel, Newark, N. J. Switch tie-plate. No. 1,152,314; Aug. 31; Gaz. vol. 217; p. 1609.
- Harrington, Edward C., St. Louis, Mo. Propeller. No. 1,160,884; Nov. 16; Gaz. vol. 220; p. 957.
- Harrington, Frances, Duluth, Minn. Doll. No. 1,162,604; Nov. 30; Gaz. vol. 220; p. 1648.
- Harrington, Francis B., *et al.* (See Williams, Hiram C., assignor.)
- Harrington, Fred, Wichita Falls, Tex. Extension pedal attachment. No. 1,128,975; Feb. 16; Gaz. vol. 211; p. 899.
- Harrington, John P., *et al.* (See O'Brien, Dennis J., assignor.)
- Harrington, Joseph. (See Stevens, Enoch P., assignor.)
- Harrington Manufacturing Company. (See Harrington, Cornelius J., assignor.)
- Harrington, Norman T., Lansing, Mich. Stamp-mill. No. 1,144,126; June 22; Gaz. vol. 215; p. 1164.
- Harrington, Norman T., Lansing, Mich. Explosive-engine and operating the same. No. 1,148,166; July 27; Gaz. vol. 216; p. 1187.
- Harrington, Robert J., Dalton, Mass. Device for cleaning driving-belts. No. 1,165,404; Dec. 28; Gaz. vol. 221; p. 1058.
- Harris, Abraham, New York, N. Y. Clasp for suspenders. No. 1,142,957; June 15; Gaz. vol. 215; p. 732.
- Harris Air Pump Company. (See Miller, Frank S., assignor.)
- Harris, Andrew J., Kress, Tex. Silo construction. No. 1,163,915; Dec. 14; Gaz. vol. 221; p. 458.
- Harris, Archer H., Youngstown, Ohio. Tire-making machine. No. 1,160,075; Nov. 9; Gaz. vol. 220; p. 617.

Alphabetical list of patentees—Continued.

- Harris, Archer H., Youngstown, Ohio. Manufacturing tires. No. 1,162,479; Nov. 30; Gaz. vol. 220; p. 1607.
- Harris, Arnold W., *et al.* (See McCallum, Jean, assignor.)
- Harris, Arthur G., Pallsades, Colo. Fly-paper guard. No. 1,165,251; Dec. 21; Gaz. vol. 221; p. 966.
- Harris, Arthur W. (See Corbin and Harris.)
- Harris, Asa B., Vienna, Ill. Tilling-machine. No. 1,133,956; Mar. 30; Gaz. vol. 212; p. 1611.
- Harris Automatic Press Company, The. (See Minnick, William F., assignor.)
- Harris, Benjamin B., La Fayette, B. F. Donner, Colfax, and R. H. McNair, Peoria, Ill. Car-door. No. 1,147,721; July 27; Gaz. vol. 216; p. 1028.
- Harris, Benjamin E., Chicago, Ill. Cleaning apparatus. No. 1,143,959; June 22; Gaz. vol. 215; p. 1104.
- Harris, Benjamin S. H., Greenville, S. C. Hydropneumatic pump. No. 1,148,315; July 27; Gaz. vol. 216; p. 1239.
- Harris-Brown Table Co. (See Harris, Clarence H., assignor.)
- Harris, Carl C., Orange, Mass. Rake. No. 1,162,055; Nov. 30; Gaz. vol. 220; p. 1460.
- Harris, Carl C., assignor, by mesne assignments, to The Adzitt Company, Orange, Mass. Adding device. No. 1,129,978; Mar. 2; Gaz. vol. 212; p. 49.
- Harris, Charles H., Keokuk, Iowa. Battery connector and receptacle. No. 1,135,580; Apr. 13; Gaz. vol. 213; p. 573.
- Harris, Charles R., and R. G. Goldman, Los Angeles, Cal. Rotary mud-brake. No. 1,127,237; Feb. 2; Gaz. vol. 211; p. 202.
- Harris, Charles S., and A. H. Chromasta, assignors of one-fourth to W. F. Bartels and one-fourth to H. H. Grundmann, Milwaukee, Wis. Belt-shifter. No. 1,160,403; Nov. 16; Gaz. vol. 220; p. 785.
- Harris, Clarence H., Denver, Colo. Combined cabinet and table. No. 1,129,800; Feb. 23; Gaz. vol. 211; p. 1218.
- Harris, Clarence H., Cheyenne, assignor to Harris-Brown Table Co., Rawlins, Wyo. Extensible table. No. 1,146,068; July 13; Gaz. vol. 216; p. 403.
- Harris, Daniel L., Wichita, Kans. Drinking-fountain and waste-receptacle. No. 1,141,794; June 1; Gaz. vol. 215; p. 248.
- Harris, Earl A., Scranton, Pa., assignor to Alcomo Manufacturing Company, Newark, N. J. Device for applying chains to wheels. No. 1,153,490; Sept. 14; Gaz. vol. 218; p. 437.
- Harris, Edward, Santa Barbara, Cal. Signaling-glove. No. 1,155,970; Dec. 28; Gaz. vol. 221; p. 1254.
- Harris, Edwin D., assignor of one-half to A. A. Mueller, Sycamore, Ill. Insulator. No. 1,151,179; Aug. 24; Gaz. vol. 217; p. 1174.
- Harris, Ford W. (See Bardeen and Harris.)
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,123,282; Jan. 5; Gaz. vol. 210; p. 27.
- Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. System of electric distribution and circuit control. No. 1,123,283; Jan. 5; Gaz. vol. 210; p. 27.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller for electric motors. No. 1,124,732; Jan. 12; Gaz. vol. 210; p. 531.
- Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit-breaker. No. 1,125,520; Jan. 19; Gaz. vol. 210; p. 897.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Insulating structure. No. 1,129,486; Feb. 23; Gaz. vol. 211; p. 1113.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,132,772; Mar. 23; Gaz. vol. 212; p. 1153.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,138,754; May 11; Gaz. vol. 214; p. 400.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,158,492; Nov. 2; Gaz. vol. 220; p. 28.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of electrical distribution. No. 1,159,936; Nov. 9; Gaz. vol. 220; p. 570.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-controller. No. 1,162,056; Nov. 30; Gaz. vol. 220; p. 1461.
- Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of electrical distribution. No. 1,163,997; Dec. 14; Gaz. vol. 221; p. 487.
- Harris, Frank A., Spokane, Wash. Nut-lock. No. 1,140,902; May 25; Gaz. vol. 214; p. 1227.
- Harris, Fred, and A. Bates, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Pulling over machine. No. 1,125,094; Jan. 19; Gaz. vol. 210; p. 745.
- Harris, Frederic R., Brooklyn, N. Y. Construction of dry or graving docks. No. 1,134,333; Apr. 6; Gaz. vol. 213; p. 92.
- Harris, Frederick C., Duluth, Minn. Safety device for electric switches. No. 1,159,668; Nov. 9; Gaz. vol. 220; p. 472.
- Harris, George N., *et al.* (See Bryan, Pulaski J., assignor.)
- Harris, Gordon D., Bay Shore, N. Y., and J. S. Pollard, Bayonne, N. J., assignors to General Dehydrator Company, New York, N. Y. Apparatus for dehydrating and warming air. No. 1,131,835; Mar. 16; Gaz. vol. 212; p. 764.
- Harris, Gordon D., and J. S. Pollard, Bayonne, N. J., assignors to General Dehydrator Company, New York, N. Y. Producing soluble milk-powder. No. 1,138,380; May 4; Gaz. vol. 214; p. 233.
- Harris, Harry E., Bounton, N. J. Streak-preventing device for cornices. No. 1,142,253; June 8; Gaz. vol. 215; p. 447.
- Harris, Harvey L., assignor to The Garford Manufacturing Company, Elyria, Ohio. Telephone system. No. 1,151,683; Aug. 31; Gaz. vol. 217; p. 1391.
- Harris, Harvey L., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Telephone system. No. 1,161,048; Nov. 23; Gaz. vol. 220; p. 1060.
- Harris, Henry A., assignor to New Era Remover Company, Newark, N. J. Finish-remover. No. 1,145,365; July 6; Gaz. vol. 216; p. 135.
- Harris, Henry H., Traverse City, Mich. Harvesting-machine. No. 1,153,783; Sept. 14; Gaz. vol. 218; p. 540.
- Harris, Henry K., Runwell, Wicford, England. Advertising device and the like. No. 1,138,471; May 4; Gaz. vol. 214; p. 264.
- Harris, Hollis H., assignor to The Thew Automatic Shovel Company, Lorain, Ohio. Excavating mechanism. No. 1,126,203; Jan. 26; Gaz. vol. 210; p. 1176.
- Harris, James C., Cambridge, Kans. Car-fender. No. 1,133,136; Mar. 23; Gaz. vol. 212; p. 1286.
- Harris, James W., *et al.* (See French, Tom, assignor.)
- Harris, John, Sheffield, England. Mechanical oil-roasting and like furnace. No. 1,149,754; Aug. 10; Gaz. vol. 217; p. 557.
- Harris, John C., De Beque, Colo. Mason's line-holder. No. 1,124,310; Jan. 12; Gaz. vol. 210; p. 429.
- Harris, John I., Sabano, Tex. Window-sash construction. No. 1,133,472; Mar. 30; Gaz. vol. 212; p. 1440.
- Harris, John S., Govan, Wash. Cultivator and weeder. No. 1,134,194; Apr. 6; Gaz. vol. 213; p. 40.
- Harris, Joshua W., Towson, Md. Combination desk and filing-cabinet. No. 1,158,493; Nov. 2; Gaz. vol. 220; p. 28.
- Harris, Julius G., Philadelphia, Pa., and R. H. Hill, Wilmington, Del. Hand-rake. No. 1,160,282; Nov. 16; Gaz. vol. 220; p. 743.
- Harris, Leonard B., Haddon Heights, N. J., assignor to Harris Patents Company, New York, N. Y. Locomotive. No. 1,149,511; Aug. 10; Gaz. vol. 217; p. 467.
- Harris, Leonard L. (See Honnold, Frank, assignor.)
- Harris, Manse M., assignor to Pioneer Mercantile Company, Bakersfield, Cal. Sample-display door. No. 1,126,633; Jan. 26; Gaz. vol. 210; p. 1331.
- Harris, Mary F., and W. D. Lewis, Carthage, Ill. Head wearing-apparel. No. 1,139,675; May 18; Gaz. vol. 214; p. 762.
- Harris, Moses A., assignor of one-third to L. A. Clark, Westfield, N. J. Starter for engines. No. 1,157,533; Oct. 19; Gaz. vol. 219; p. 828.
- Harris, Nathaniel A., Athlone, N. C., assignor of one-half to L. D. Cory, Pallsades, N. Y. Wood filler and stain and making same. No. 1,126,993; Feb. 2; Gaz. vol. 211; p. 116.
- Harris Patents Company. (See Harris, Leonard B., assignor.)
- Harris, Samuel, Dumbleyung, Western Australia, Australia. Harvester. No. 1,136,798; Apr. 20; Gaz. vol. 213; p. 1044.
- Harris, Samuel J., Stoughton, Mass. Friction and metal plug for rubber heels, &c. No. 1,129,672; Feb. 23; Gaz. vol. 211; p. 1176.
- Harris, Samuel J., Randolph, assignor of one-half to C. L. Scaver, Jr., Stoughton, Mass. Waterproof shoe. No. 1,136,799; Apr. 20; Gaz. vol. 213; p. 1045.
- Harris, Simon T. (See Cornfield, Noah, assignor.)
- Harris, Thomas A., assignor to Buhl Stamping Company, Detroit, Mich. Lantern. No. 1,162,770; Dec. 7; Gaz. vol. 221; p. 13.
- Harris, Thomas B., Jacksonville, Fla. Guard. No. 1,136,601; Apr. 20; Gaz. vol. 213; p. 975.
- Harris, Thomas S., and J. P. Morgan, Eldridge, Tex. Potato screening and sorting machine. No. 1,161,211; Nov. 23; Gaz. vol. 220; p. 1119.
- Harris Tire & Rubber Co. (See Harris, William D., assignor.)
- Harris, Walter W., Brownsburg, Pa. Currycomb. No. 1,137,613; Apr. 27; Gaz. vol. 213; p. 1371.
- Harris, William, *et al.* (See Pero, John T., assignor.)

Alphabetical list of patentees—Continued.

- Harris, William D., assignor to Harris Tire & Rubber Co., Philadelphia, Pa. Tire. No. 1,163,338; Dec. 7; Gaz. vol. 221; p. 212.
- Harris, William E., Minneapolis, Minn. Shears. No. 1,151,874; Aug. 31; Gaz. vol. 217; p. 1458.
- Harris, William E., Scottsboro, Ala., assignor of one-half to C. L. Jarrett, Springfield, Mo. Car-door-operating mechanism. No. 1,155,922; Oct. 5; Gaz. vol. 219; p. 208.
- Harris, William F., San Francisco, Cal. Caster. No. 1,156,287; Oct. 12; Gaz. vol. 219; p. 357.
- Harris, William L. (See Houtz and Harris.)
- Harris, William M., Detroit, Mich. Blue-print developing and drying machine. No. 1,150,031; Aug. 17; Gaz. vol. 217; p. 717.
- Harris, William W., Spartanburg, S. C. Planter. No. 1,127,238; Feb. 2; Gaz. vol. 211; p. 202.
- Harris, William W., New York, N. Y., assignor to Van Gieckland Co., Inc. Acetylene-generator. No. 1,157,385; Oct. 19; Gaz. vol. 219; p. 776.
- Harris, William W., New York, N. Y., assignor to Van Gieckland Co., Inc. Acetylene-generator. No. 1,157,386; Oct. 19; Gaz. vol. 219; p. 777.
- Harrison, Alexander L., Union City, Tenn. Presser-foot for sewing-machines. No. 1,145,989; July 13; Gaz. vol. 216; p. 374.
- Harrison, Arthur H., De Kalb, Ill. Dust-mop. No. 1,132,658; Mar. 23; Gaz. vol. 212; p. 1112.
- Harrison, Charles, assignor of one-third to P. Slaughter, Reno, Nev. Brake mechanism for talking-machines. No. 1,148,512; Aug. 3; Gaz. vol. 217; p. 10.
- Harrison, Charles L., Richmond, Va. Ventilator for car-windows. No. 1,150,002; Aug. 10; Gaz. vol. 217; p. 646.
- Harrison, Clark W., New York, N. Y. Device for controlling the supply of gas to burners. No. 1,155,416; Oct. 5; Gaz. vol. 219; p. 32.
- Harrison, Elmer, Detroit, Mich. Steam-generator. No. 1,142,420; June 8; Gaz. vol. 215; p. 507.
- Harrison, Frank D. (See Handy, Aaron H., assignor.)
- Harrison, Frederick J., and W. J. Knox, Dubois, Pa. Hand-brake wheel. No. 1,139,676; May 18; Gaz. vol. 214; p. 762.
- Harrison, Frederick J., and W. J. Knox, Dubois, Pa., assignors to Cast Steel Pilot Company. Locomotive-pilot. No. 1,135,520; Apr. 13; Gaz. vol. 213; p. 551.
- Harrison, Frederick J., and W. J. Knox, Dubois, Pa., assignors to Cast Steel Pilot Company. Locomotive-pilot. No. 1,135,521; Apr. 13; Gaz. vol. 213; p. 552.
- Harrison, Frederick J., and W. J. Knox, Dubois, Pa., assignors to Cast Steel Pilot Company. Bumper-beam step-bracket. No. 1,135,522; Apr. 13; Gaz. vol. 213; p. 552.
- Harrison, George L., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Article of furniture. No. 1,145,681; July 6; Gaz. vol. 216; p. 246.
- Harrison, George L., assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Metal leg for furniture. No. 1,159,839; Nov. 9; Gaz. vol. 220; p. 536.
- Harrison, Herbert C., Lockport, N. Y. Dimmer for automobile-headlights. No. 1,136,006; Apr. 20; Gaz. vol. 213; p. 765.
- Harrison, Herbert C., Lockport, N. Y., assignor, by mesne assignments, to Electro Metallurgical Company. Crystalline ferrosilicon product and making the same. No. 1,134,127; Apr. 6; Gaz. vol. 213; p. 16.
- Harrison, Herbert C., Lockport, N. Y., assignor, by mesne assignments, to Electro Metallurgical Company. Ferrosilicon product and continuously producing the same. No. 1,134,128; Apr. 6; Gaz. vol. 213; p. 16.
- Harrison, Herbert C., Lockport, N. Y., assignor, by mesne assignments, to Electro Metallurgical Company. Ferrosilicon alloys of a definite composition. No. 1,134,129; Apr. 6; Gaz. vol. 213; p. 16.
- Harrison, Isaac, Cream Ridge, N. J. Potato-digger. No. 1,135,180; Apr. 13; Gaz. vol. 213; p. 435.
- Harrison, Isaac, Pittsburgh, Pa. Fluid-indicator. No. 1,162,916; Dec. 7; Gaz. vol. 221; p. 63.
- Harrison, Jacob, Brooklyn, N. Y. Table. No. 1,148,379; July 27; Gaz. vol. 216; p. 1262.
- Harrison, Jacob H. (See Rodgers, Roy A., assignor.)
- Harrison, James J., and T. H. Huffer, St. Louis, Mo. Sound-reproducer. No. 1,127,765; Feb. 9; Gaz. vol. 211; p. 426.
- Harrison, John W., Wilmerding, Pa. Safety locking device for pneumatic tools. No. 1,125,521; Jan. 19; Gaz. vol. 210; p. 897.
- Harrison Mfg. Co. (See Streichert, Emil C. F., assignor.) (Reissue.)
- Harrison, Nathaniel W., Baltimore, Md. Delivery mechanism. No. 1,161,309; Nov. 23; Gaz. vol. 220; p. 1155.
- Harrison Safety Boiler Works. (See Gamble, Joseph W., assignor.)
- Harrison Safety Boiler Works. (See Gibson, George H., assignor.)
- Harrison Safety Boiler Works. (See Jay, Edward G., Jr., assignor.)
- Harrison, Simon H., Easton, Pa. Air-feed for pulverized fuel. No. 1,155,725; Oct. 5; Gaz. vol. 219; p. 140.
- Harrison, Theodore M., Castlemaine, Victoria, Australia. Attachment for piercing tins and decanting liquids. No. 1,164,645; Dec. 21; Gaz. vol. 221; p. 753.
- Harrison, Thomas J., Julesburg, Colo. Seed-potato cutter. No. 1,154,765; Sept. 28; Gaz. vol. 218; p. 941.
- Harrison, Walton, New York, N. Y. Apparatus for transmitting sounds by means of Hertzian waves. No. 1,139,413; May 11; Gaz. vol. 214; p. 632.
- Harrison, Walton, New York, N. Y. Loud-speaking telephone. No. 1,140,263; May 18; Gaz. vol. 214; p. 967.
- Harrison, Walton, Brooklyn, N. Y. Telephone-transmitter. No. 1,150,266; Aug. 17; Gaz. vol. 217; p. 802.
- Harrison, Walton, Brooklyn, N. Y. Apparatus for transmitting sounds. No. 1,150,267; Aug. 17; Gaz. vol. 217; p. 803.
- Harrison, William, Farmington, N. Mex. Insect-trap. No. 1,126,994; Feb. 2; Gaz. vol. 211; p. 116.
- Harrison, William A., New York, N. Y. Horseshoe. No. 1,125,522; Jan. 19; Gaz. vol. 210; p. 897.
- Harrison, William A., New York, N. Y. Adjustable horse-shoe. No. 1,147,236; July 20; Gaz. vol. 216; p. 831.
- Harrold, William A., Wausau, Wis. Cushion device for digger-bars. No. 1,143,267; June 15; Gaz. vol. 215; p. 841.
- Harrison, William B. (See Felton, Charles W., assignor.)
- Harrold, Elmer, assignor to The Crescent Machine Company, Leetonia, Ohio. Cutter-blade for jointers and planers. No. 1,150,677; Aug. 17; Gaz. vol. 217; p. 944.
- Harrold, Elmer, assignor to The Crescent Machine Company, Leetonia, Ohio. Rotary cutter-head. No. 1,153,910; Sept. 21; Gaz. vol. 218; p. 619.
- Harrold, Walter C., Mount Eaton, Ohio. Hay-rack. No. 1,125,523; Jan. 19; Gaz. vol. 210; p. 898.
- Harrop, Nathan, Stonecroft, Liverpool, England. Device or means for the protection of carpets and the like. No. 1,140,264; May 18; Gaz. vol. 214; p. 967.
- Harroun, Ray W., Indianapolis, Ind. Carbureter. No. 1,138,494; Nov. 2; Gaz. vol. 220; p. 28.
- Harroun, Ray W., Indianapolis, Ind., assignor, by mesne assignments, to Invinible Manufacturing Company. Carbureter. No. 1,135,639; Apr. 13; Gaz. vol. 213; p. 612.
- Harroun, Ray W., Indianapolis, Ind., assignor, by mesne assignments, to Invinible Manufacturing Company. Carbureter. No. 1,155,726; Oct. 5; Gaz. vol. 219; p. 140.
- Harrower, Paul D., Chelsea, Mass. Demountable wheel-rim. No. 1,134,740; Apr. 6; Gaz. vol. 213; p. 240.
- Harry, Owen K., Dallas, Tex. Sheet-metal tank. No. 1,157,158; Oct. 19; Gaz. vol. 219; p. 695.
- Harry Vissering & Company. (See Russell, Thomas N., assignor.)
- Harsch, Charles A., assignor, by mesne assignments, to The Fire Detecting Wire Company, (Inc.) New York, N. Y. Protecting-duct for fire-detecting conductors. No. 1,142,094; June 8; Gaz. vol. 215; p. 392.
- Harsch, Henry W. (See Badeker, John, assignor.)
- Hartstad, Ole, assignor to J. O'Connor, Montevideo, Minn. Silo. No. 1,154,511; Sept. 21; Gaz. vol. 218; p. 825.
- Hart, Alfred L. (See Teige and Hart.)
- Hart, Alice M., assignor to Viking Manufacturing Company Limited, London, England. Waterproofing of fabrics, yarns, and other materials. No. 1,131,929; Mar. 16; Gaz. vol. 212; p. 797.
- Hart, Boies C., Basin, Wyo. Combined bill-book, check-book, and pass-book. No. 1,148,964; Aug. 3; Gaz. vol. 217; p. 170.
- Hart, Charles A., Findlay, Ohio. Automobile-jack. No. 1,136,007; Apr. 20; Gaz. vol. 213; p. 765.
- Hart, Charles W., Charles City, Iowa. Carbureter. No. 1,137,135; Apr. 27; Gaz. vol. 213; p. 1203.
- Hart & Cooley Company, The. (See Hart, Howard S., assignor.)
- Hart & Cooley Company, The. (See Quick, Benjamin H., assignor.)
- Hart, Fred E., San Francisco, Cal. Artificial-tooth facing with backing adjustment. No. 1,157,534; Oct. 19; Gaz. vol. 219; p. 829.
- Hart, Fred V. (See Winkley and Hart.)
- Hart, Frederick, Poughkeepsie, assignor to R. A. and C. S. Jonas, New York, N. Y. Perforating-machine. No. 1,160,885; Nov. 16; Gaz. vol. 220; p. 957.
- Hart, George H., West Hartford, Conn. Electric switch. No. 1,139,278; May 11; Gaz. vol. 214; p. 584.
- Hart, George W., Auburn, Wash. Sand-band. No. 1,131,510; Mar. 9; Gaz. vol. 212; p. 613.
- Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Switch. No. 1,149,755; Aug. 10; Gaz. vol. 217; p. 557.
- Hart Grain Weigher Company. (See Morrow, Jacob H., assignor.)
- Hart, Harmon E., Laurens, Iowa. Tire-setting device. No. 1,129,487; Feb. 23; Gaz. vol. 211; p. 1114.
- Hart, Harold A., Hartford, Conn. Connecting device. No. 1,162,354; Nov. 30; Gaz. vol. 220; p. 1565.
- Hart, Harold L., Galesburg, Ill. Non-refillable bottle. No. 1,139,280; May 11; Gaz. vol. 214; p. 585.
- Hart, Harry A., Detroit, Mich. Steering-wheel. No. 1,143,702; June 22; Gaz. vol. 215; p. 1016.

Alphabetical list of patentees—Continued.

- Hart, Harry M., St. Louis, Mo., assignor to United Shoe Machinery Company, Paterson, N. J. Hold-down. No. 1,138,856; May 11; Gaz. vol. 214; p. 438.
- Hart, Harry S., and F. Seaberg, assignors to National Dump Car Company, Chicago, Ill. Door-operating mechanism for railway-cars. No. 1,131,236; Mar. 9; Gaz. vol. 212; p. 517.
- Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
- Hart & Hegeman Manufacturing Company, The. (See Sachs, Joseph, assignor.)
- Hart & Hegeman Manufacturing Company, The. (See Sachs and Francis, assignors.)
- Hart, Henry R., Montclair, N. J. Athletic guard. No. 1,158,208; Oct. 26; Gaz. vol. 219; p. 1126.
- Hart, Herbert H. (See Boring, Herbert, assignor.)
- Hart, Howard S., assignor to The Hart & Cooley Company, New Britain, Conn. Register. No. 1,166,412; Dec. 28; Gaz. vol. 221; p. 1415.
- Hart, Hubert C., Unionville, Conn. Edging-machine. No. 1,124,430; Jan. 12; Gaz. vol. 210; p. 472.
- Hart, Hubert C., Unionville, Conn. Shaft-coupling. No. 1,140,978; May 25; Gaz. vol. 214; p. 1253.
- Hart, Hubert C., Unionville, Conn. Poultry-roost. No. 1,165,252; Dec. 21; Gaz. vol. 221; p. 967.
- Hart, Hubert C., assignor to The H. C. Hart Manufacturing Company, Unionville, Conn. Article of cutlery. No. 1,161,665; Nov. 23; Gaz. vol. 220; p. 1278.
- Hart & Hutchinson Company, The. (See Hart and Williams, assignors.)
- Hart, James. (See Axmacher, Gorman, and Hart.)
- Hart, James E., Chicago, Ill. Freight-car. No. 1,146,159; July 13; Gaz. vol. 216; p. 434.
- Hart, Joel T., San Antonio, Tex. Sash-holder. No. 1,162,860; Dec. 7; Gaz. vol. 221; p. 44.
- Hart, John A., Blackburn, England. Means for imparting energy from one body of gaseous fluid to another and the utilization of the resulting product. No. 1,131,511; Mar. 9; Gaz. vol. 212; p. 613.
- Hart, John A., Blackburn, England. Means for producing and utilizing energized gaseous fluid. No. 1,131,512; Mar. 9; Gaz. vol. 212; p. 613.
- Hart, John R., and J. R. Davis, Tampa, Fla. Dredge. No. 1,159,937; Nov. 9; Gaz. vol. 220; p. 571.
- Hart-King System Company. (See Carrill, Albert H., assignor.)
- Hart, Lewis A., Binghamton, N. Y., assignor to Bateman Manufacturing Company, Glenloch, N. J. Plant-spraying machine. No. 1,158,209; Oct. 26; Gaz. vol. 219; p. 1126.
- Hart, Lewis B., Plaquemine, La. Generative-organ appliance. No. 1,153,072; Sept. 7; Gaz. vol. 218; p. 250.
- Hart, Louis S., and N. E. Lee, New Haven, V. Va. Emergency fuel-tank for motor-vehicles. No. 1,126,995; Feb. 2; Gaz. vol. 211; p. 116.
- Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,143,960; June 22; Gaz. vol. 215; p. 1104.
- Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,146,871; July 20; Gaz. vol. 216; p. 703.
- Hart Manufacturing Company, The. (See Hart, Gerald W., assignor.)
- Hart Manufacturing Company, The. (See Hart, Louis F., assignor.)
- Hart, Maxwell S., New Britain, Conn. Wind-shield. No. 1,136,229; Apr. 20; Gaz. vol. 213; p. 842.
- Hart, Maxwell S., and W. J. Williams, assignors to The Hart & Hutchinson Company, New Britain, Conn. Indicator-signal for lockers and the like. No. 1,158,920; Nov. 2; Gaz. vol. 220; p. 179.
- Hart, Mortimer M., and R. W. Carpenter, Welser, Idaho. Fluid-level indicator. No. 1,133,023; Mar. 23; Gaz. vol. 212; p. 1246.
- Hart, Orlando F., Warren, Ohio. End-dump car. No. 1,163,235; Dec. 7; Gaz. vol. 221; p. 175.
- Hart, Orlando W., Fall River, Mass. Message-delivery system. No. 1,162,159; Nov. 30; Gaz. vol. 220; p. 1497.
- Hart, Rosetta, Port Jefferson, N. Y. Fly-paper holder. No. 1,132,007; Mar. 16; Gaz. vol. 212; p. 825.
- Hart, Salem R., assignor of one-half to J. L. Primm, Cleveland, Okla. Rod-coupling. No. 1,157,103; Oct. 19; Gaz. vol. 219; p. 676.
- Hart, Thomas F., assignor to Hamel Shoe Machinery Company, Lynn, Mass. Folding-machine. No. 1,125,845; Jan. 19; Gaz. vol. 210; p. 1012.
- Hart, Thomas I. (See Fassen, Charles A., assignor.)
- Hart, Thomas L., St. Louis, Mo. Shipping-tag. No. 1,155,566; Oct. 5; Gaz. vol. 219; p. 84.
- Hart, Thomas M., assignor to P. M. Stewart, trustee, New York, N. Y. Road and making the same. No. 1,158,418; Oct. 26; Gaz. vol. 219; p. 1201.
- Hart, Walter E., Shelbyville, Ill. Adjustable flue-stop. No. 1,139,279; May 11; Gaz. vol. 214; p. 585.
- Hart, Walter H., assignor to The Stanley Works, New Britain, Conn. Keeper for hasps. No. 1,141,542; June 1; Gaz. vol. 215; p. 163.
- Hart, William H., Jr., Philadelphia, Pa. Coin-mailing card. No. 1,138,381; May 4; Gaz. vol. 214; p. 233.
- Hart, William H., Jr., Philadelphia, Pa. Coin-mailing card. No. 1,160,599; Nov. 16; Gaz. vol. 220; p. 855.
- Hart, William H., Jr., Philadelphia, Pa. Mailing-envelop. No. 1,160,600; Nov. 16; Gaz. vol. 220; p. 856.
- Hart, William H., Jr., Philadelphia, Pa. Savings-bank or money-box. No. 1,160,601; Nov. 16; Gaz. vol. 220; p. 856.
- Hart, William S., Washington, D. C. Hydroaeroplane. No. 1,166,367; Dec. 28; Gaz. vol. 221; p. 1399.
- Hart, Willis A., Cocoa, Fla. Flow. No. 1,126,632; Jan. 26; Gaz. vol. 210; p. 1331.
- Hartenstein, Herman L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Manufacturing carbide. No. 1,152,506; Sept. 7; Gaz. vol. 218; p. 45.
- Harter, Charles. (See O'Brien and Harter.)
- Harter, Eli, San Francisco, Cal., assignor, by mesne assignments, to The Pocket Movie Camera Company. Mechanical movement. No. 1,163,916; Dec. 14; Gaz. vol. 221; p. 459.
- Harter, Isaac, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Air-cooled tank for electrical apparatus. No. 1,155,656; Oct. 5; Gaz. vol. 219; p. 115.
- Harter, James G., Berwick, Pa. Wrench. No. 1,152,727; Sept. 7; Gaz. vol. 218; p. 127.
- Harter, William, and A. A. Stephens, Greenville, Ohio. Vehicle door-fastener. No. 1,132,341; Mar. 16; Gaz. vol. 212; p. 947.
- Hartiel, Charles A., New York, N. Y. Umbrella. No. 1,145,768; July 6; Gaz. vol. 216; p. 277.
- Hartford Clock Company, The. (See Greenleaf, William H., assignor.)
- Hartford, Edward V., Deal, N. J. Shock-absorber. No. 1,124,612; Jan. 12; Gaz. vol. 210; p. 538.
- Hartford, Edward V., Deal, N. J. Combination electrical switch and clutch actuating mechanism. No. 1,146,872; July 20; Gaz. vol. 216; p. 703.
- Hartford, Edward V., Deal, N. J. Suspension device for vehicles. No. 1,154,569; Sept. 21; Gaz. vol. 218; p. 845.
- Hartford, Edward V., New York, N. Y. Spring-retarding device. No. 1,128,782; Feb. 16; Gaz. vol. 211; p. 828.
- Hartford Lock Ring Company, The. (See Merritt, Joseph, assignor.)
- Hartford Lock Ring Company, The. (See Merritt and Sawyer, assignors.)
- Hartford Lock Ring Company, The. (See Merritt and Storrs, assignors.)
- Hartford Rubber Works Company, The. (See Midgley, Thomas, assignor.)
- Hartford Rubber Works Company, The. (See Phillips, Frederick F., assignor.)
- Hartin, Robert C., assignor of one-half to A. V. Mulvenon, San Diego, Cal. Reinforced pivotally-mounted vehicle spring. No. 1,163,917; Dec. 14; Gaz. vol. 221; p. 459.
- Harting, Clayton C. (See Cromer and Harting.)
- Harting, William F. C. (See Heutschel and Harting.)
- Hartley, Daniel. (See Severance, William E., assignor.)
- Hartley, De Bert, Chicago, Ill. Flying-machine. No. 1,123,737; Jan. 5; Gaz. vol. 210; p. 184.
- Hartley, De Bert, Chicago, Ill. Aerohydroplane flying-machine. No. 1,131,779; Mar. 16; Gaz. vol. 212; p. 742.
- Hartley, John G., Philadelphia, Pa. Process relating to switch-heels. No. 1,158,684; Nov. 2; Gaz. vol. 220; p. 96.
- Hartley, John G., Philadelphia, Pa. Tongue-switch heel. No. 1,158,685; Nov. 2; Gaz. vol. 220; p. 96.
- Hartley, John W., Nashotah, Wis. Clevis. No. 1,138,867; May 11; Gaz. vol. 214; p. 441.
- Hartley, Thomas C., Spokane, Wash. Glazier's point-setter. No. 1,134,334; Apr. 6; Gaz. vol. 213; p. 92.
- Hartley, William B., Watts, Cal. Helicopter. No. 1,153,073; Sept. 7; Gaz. vol. 218; p. 251.
- Hartman, Emanuel V., Hammond, Ind. Fender for automobiles. No. 1,164,513; Dec. 14; Gaz. vol. 221; p. 668.
- Hartman, Ferdinand Q., Danville, Pa. Grease-cup. No. 1,153,074; Sept. 7; Gaz. vol. 218; p. 251.
- Hartman, Hans, London, England, assignor to Duplex Vending Machine Company, Inc., New York, N. Y. Automatic vending-machine. No. 1,142,702; June 8; Gaz. vol. 215; p. 602.
- Hartman, Harry B., assignor to Electric Water Sterilizer Company, Scottsdale, Pa. Water-purifying apparatus. No. 1,139,969; May 18; Gaz. vol. 214; p. 864.
- Hartman, Harry B., assignor to Electric Water Sterilizer Company, Scottsdale, Pa. Water-purifying apparatus. No. 1,139,970; May 18; Gaz. vol. 214; p. 864.
- Hartman, James, Bern, Kans. Harvester butt-board. No. 1,140,979; May 25; Gaz. vol. 214; p. 1254.
- Hartman, John, Buffalo, N. Y. Vehicle-brake. No. 1,142,880; June 15; Gaz. vol. 215; p. 705.
- Hartman, John H., Lancaster, Pa. Support and clamp. No. 1,124,896; Jan. 12; Gaz. vol. 210; p. 640.
- Hartman, Joseph, Apponaug, R. I. Music-leaf turner. No. 1,124,131; Jan. 5; Gaz. vol. 210; p. 317.
- Hartman, Louis H., assignor of one-fourth to J. H. Canfield and one-fourth to C. A. Swadner, Pittsburgh, Pa. Rake attachment. No. 1,151,584; Aug. 31; Gaz. vol. 217; p. 1357.
- Hartman, Noble W., Toledo, Ohio, assignor, by mesne assignments, to General Electric Company. Glass-blowing machine. No. 1,155,809; Oct. 5; Gaz. vol. 219; p. 169.

Alphabetical list of patentees—Continued.

- Hartman, William F., Easton, Pa. Toy. No. 1,150,761; Aug. 17; Gaz. vol. 217; p. 972.
- Hartmann, Andrew P., Yonkers, N. Y. Observation instrument. No. 1,134,610; Apr. 6; Gaz. vol. 213; p. 192.
- Hartmann, Arthur R., Houston, Tex. Indicator. No. 1,127,618; Feb. 9; Gaz. vol. 211; p. 372.
- Hartmann, August E. K. G., Hamburg, Germany. Printing-machine. No. 1,132,844; Mar. 23; Gaz. vol. 212; p. 1181.
- Hartmann & Braun A. G. (See Schaefer, Béla, assignor.)
- Hartmann & Braun, A.-G. (See Schumann, Oscar, assignor.)
- Hartmann, Carl, Schlebusch, near Cologne, assignor to Sprengstoff A.-G. Carbonit, Hamburg, Germany. Manufacturing explosives. No. 1,135,792; Apr. 13; Gaz. vol. 213; p. 648.
- Hartmann, Carl, Lancaster, N. Y., assignor to Gould Coupler Company. Interrupter. No. 1,149,980; Aug. 10; Gaz. vol. 217; p. 639.
- Hartmann, Carl, Lancaster, N. Y., assignor to Gould Coupler Company. Ignition system. No. 1,151,946; Aug. 31; Gaz. vol. 217; p. 1481.
- Hartmann, Emil, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Side-strap buckle. No. 1,126,205; Jan. 26; Gaz. vol. 210; p. 1176.
- Hartmann, Louis, Mount Vernon, assignor to H. Iden, deceased, New York, N. Y.; H. Amrheln, executor. Acetylene-gas lamp. No. 1,142,421; June 8; Gaz. vol. 215; p. 507.
- Hartmann Trunk Company, The. (See Albert, Charles H., assignor.)
- Hartmann Trunk Company, The. (See Wheary, George H., assignor.)
- Hartner, Mathew, Herndon, Kans. Pump-rod connector. No. 1,141,795; June 1; Gaz. vol. 215; p. 249.
- Hartness, James, Springfield, Vt. Metal-turning tool. No. 1,130,274; Mar. 2; Gaz. vol. 212; p. 150.
- Hartness, James, Springfield, Vt. Metal-turning tool. No. 1,130,275; Mar. 2; Gaz. vol. 212; p. 151.
- Hartness, James, Springfield, Vt. Automatic chucking-lathe. No. 1,130,276; Mar. 2; Gaz. vol. 212; p. 151.
- Hartness, James, Springfield, Vt. Multispindle lathe. No. 1,130,277; Mar. 2; Gaz. vol. 212; p. 152.
- Hartog, Henry D., Orange City, Iowa. Latch. No. 1,125,524; Jan. 19; Gaz. vol. 210; p. 898.
- Hartog, Henry D., Orange City, Iowa. Fire-escape. No. 1,133,722; Mar. 30; Gaz. vol. 212; p. 1532.
- Hartog, Louis N., New York, N. Y. Heater for automobile-radiators. No. 1,150,268; Aug. 17; Gaz. vol. 217; p. 803.
- Hartough, Edward W., St. Louis, and S. P. Alquist, Sedalia, Mo., assignors to J. S. Ralston, Columbus, Ohio. Door structure for railway-cars. No. 1,137,483; Apr. 27; Gaz. vol. 213; p. 1328.
- Harttrandt, Harry E., Groton, S. D. Tatting-shuttle. No. 1,157,535; Oct. 19; Gaz. vol. 219; p. 829.
- Hartshorn, Chester W., Ford, Kans. Carbureter. No. 1,127,992; Feb. 9; Gaz. vol. 211; p. 506.
- Hartsook, Thomas, Logansport, Ind. Train order or message delivering device. No. 1,157,864; Oct. 26; Gaz. vol. 219; p. 1005.
- Hartsough, D. Maurice, assignor to Gas Traction Company, Minneapolis, Minn. Traction-engine. No. 1,126,005; Jan. 26; Gaz. vol. 210; p. 1102.
- Hartsough, D. Maurice, Minneapolis, Minn., assignor to Bull Tractor Company. Tractor. No. 1,128,246; Feb. 9; Gaz. vol. 211; p. 594.
- Hartsough, D. Maurice, assignor to Bull Tractor Company, Minneapolis, Minn. Antitipping device for tractors. No. 1,138,610; May 4; Gaz. vol. 214; p. 310.
- Hartsough, D. Maurice, assignor to Bull Tractor Company, Minneapolis, Minn. Drag-bar connection for tractors. No. 1,138,611; May 4; Gaz. vol. 214; p. 310.
- Hartsough, D. Maurice, Minneapolis, Minn., assignor to Bull Tractor Company. Tractor. No. 1,139,414; May 11; Gaz. vol. 214; p. 632.
- Hartsough, Ralph B., Minneapolis, Minn. Pilot attachment for traction-engines. No. 1,138,590; May 4; Gaz. vol. 214; p. 302.
- Hartung, Carl A., Berlin, Germany. Steam-engine. No. 1,155,810; Oct. 5; Gaz. vol. 219; p. 170.
- Hartung, Carl A., Berlin, Germany. Means for withdrawing steam from steam-engines. No. 1,155,811; Oct. 5; Gaz. vol. 219; p. 170.
- Hartwell, Leslie L. (See Barber, Earl E., assignor.)
- Hartwig, Heinrich. (See Gerlinger and Hartwig.)
- Hartwig, Max, Berlin, Germany, assignor to General Electric Company. Shaft-coupling. No. 1,154,766; Sept. 28; Gaz. vol. 218; p. 941.
- Hartwig, Rudolf, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Crank-pin connection. No. 1,136,524; Apr. 20; Gaz. vol. 213; p. 948.
- Hartz, Rutherford S., Vancouver, Wash. Automatic self-stabilizing plane for aeroplanes. No. 1,149,827; Aug. 10; Gaz. vol. 217; p. 583.
- Hartzell, Forest H., assignor to The Crown Manufacturing Company, Dayton, Ohio. Tracker-bar. No. 1,131,513; Mar. 9; Gaz. vol. 212; p. 614.
- Hartzell, Forest H., assignor to The Crown Hardware Manufacturing Company, Dayton, Ohio. Self-heating iron. No. 1,139,862; May 18; Gaz. vol. 214; p. 827.
- Hartzell, Helen E., administratrix. (See Illingworth, John W.)
- Hartzell, Morris H., assignor to S. S. Fretz, Jr., Philadelphia, Pa. Folding umbrella. No. 1,149,828; Aug. 10; Gaz. vol. 217; p. 584.
- Hartzler, Lee L., Lima, Ohio. Continuous crossing. No. 1,133,723; Mar. 30; Gaz. vol. 212; p. 1532.
- Harvard Electric Company. (See Cain and Dorff, assignors.)
- Harvey, Benjamin V., and B. K. Watkins, Danville, Va. Hand-truck. No. 1,155,235; Sept. 28; Gaz. vol. 218; p. 1101.
- Harvey, Charles, Kansas City, Mo. Faucet for urns. No. 1,153,428; Sept. 14; Gaz. vol. 218; p. 415.
- Harvey, Earl. (See Lunn and Harvey.)
- Harvey, George R. (See Lighthouse, William A., assignor.)
- Harvey, Harry E., Austin, Tex. Shock-absorber. No. 1,158,210; Oct. 26; Gaz. vol. 219; p. 1127.
- Harvey, Henry C. (See Hobbs, Albert C., assignor.)
- Harvey Hubbell, Inc. (See Horn, Charles, assignor.)
- Harvey Hubbell, Inc. (See Knapp, George P., assignor.)
- Harvey Hubbell, Incorporated. (See Edwards, George C., assignor.)
- Harvey Hubbell Incorporated. (See Webster, Benjamin C., assignor.)
- Harvey, Joseph C., Chicago, Ill., assignor to J. T. Underwood, Brooklyn, N. Y. Type-writing machine. No. 1,152,944; Sept. 7; Gaz. vol. 218; p. 208.
- Harvey, Joseph C., Chicago, Ill., assignor to J. T. Underwood, Brooklyn, N. Y. Type-writing machine. No. 1,152,945; Sept. 7; Gaz. vol. 218; p. 208.
- Harvey, Josiah H., Scranton, Pa. Tire. No. 1,166,368; Dec. 28; Gaz. vol. 221; p. 1400.
- Harvey, Josiah H., Scranton, Pa., assignor to R. Orenstein, Hartford, Conn. Nut-lock. No. 1,144,979; June 29; Gaz. vol. 215; p. 1485.
- Harvey, Miller, Niles, Cal. Pump. No. 1,129,488; Feb. 23; Gaz. vol. 211; p. 1114.
- Harvey, Thomas D., Newark, Tex. End-gate fastener. No. 1,128,870; Feb. 16; Gaz. vol. 211; p. 859.
- Harwood, George, et al. (See Harwood, William W., assignor.)
- Harwood, Leon M., Springfield, Mass. Machine for packaging metallic leaf in rolls. No. 1,126,006; Jan. 26; Gaz. vol. 210; p. 1102.
- Harwood, Leon M., Springfield, Mass. Machine for cutting, packaging, and unwinding metallic leaf. No. 1,155,727; Oct. 5; Gaz. vol. 219; p. 140.
- Harwood, Leon M., Springfield, Mass. Device for cutting gold-leaf. No. 1,156,224; Oct. 12; Gaz. vol. 219; p. 336.
- Harwood & Son, George S. (See Howe, Joseph B., assignor.)
- Harwood, Stanley G., Minneapolis, Minn. Portable parcel-carrier. No. 1,149,647; Aug. 10; Gaz. vol. 217; p. 520.
- Harwood, William W., Waelder, assignor of one-fourth to G. Harwood, Cedar Bayou, one-fourth to I. Brown, Comfort, Tex. Internal-combustion engine. No. 1,160,602; Nov. 16; Gaz. vol. 220; p. 856.
- Hasberg, William M., and A. W. Swanlund, assignors to Sears, Roebuck and Company, Chicago, Ill. Apparatus for conveying and distributing papers and the like. No. 1,157,865; Oct. 26; Gaz. vol. 219; p. 1006.
- Hasburg, John W., Chicago, Ill. Apportioning-machine. No. 1,147,393; July 20; Gaz. vol. 216; p. 887.
- Hasburg, John W., Chicago, Ill. Range-finder for air-craft. No. 1,152,946; Sept. 7; Gaz. vol. 218; p. 208.
- Hascall, Charles S., Providence, R. I. Nut-lock. No. 1,150,362; Aug. 17; Gaz. vol. 217; p. 835.
- Hascall, H. G. (See McKaig, Eddy T., assignor.)
- Hascall, Harry G. (See McKaig, Eddy T., assignor.)
- Haseltine, Stacy B., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-car draft-rigging. No. 1,125,314; Jan. 19; Gaz. vol. 210; p. 824.
- Haseltine, Stacy B., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-cars. No. 1,130,083; Mar. 2; Gaz. vol. 212; p. 84.
- Haseltine, Stacy B., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-car draft-rigging. No. 1,130,692; Mar. 2; Gaz. vol. 212; p. 298.
- Haseltine, Stacy B., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,008; Apr. 20; Gaz. vol. 213; p. 765.
- Haseltine, Stacy B., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,128; Apr. 20; Gaz. vol. 213; p. 805.
- Haseltine, Stacy B., assignor to W. H. Miner, Chicago, Ill. Draft-rigging. No. 1,160,603; Nov. 16; Gaz. vol. 220; p. 857.
- Haseltine, William E., Ripon, Wis. Sphygmometer. No. 1,139,519; May 18; Gaz. vol. 214; p. 705.
- Hasenpflug, Ezra W., assignor to The Champion Safety Lock Company, Geneva, Ohio. Hinge. No. 1,145,241; July 6; Gaz. vol. 216; p. 94.
- Hasesák, Michael, New York, N. Y. Derailment-guard. No. 1,123,284; Jan. 5; Gaz. vol. 210; p. 28.
- Hashimoto, Kichisaburo, New York, N. Y. Illusion device. No. 1,137,756; May 4; Gaz. vol. 214; p. 12.
- Haskell, Charles O., assignor, by mesne assignments, to Centrifugal Machinery Company, Los Angeles, Cal. Amalgamator. No. 1,148,770; Aug. 3; Gaz. vol. 217; p. 104.

- Haskell, Charles O., assignor, by mesne assignments, to Centrifugal Machinery Company, Los Angeles, Cal. Metal-separating apparatus. No. 1,148,771; Aug. 3; Gaz. vol. 217; p. 104.
- Haskell, Edward Y., New London, Conn. Navigator's course marker and finder. No. 1,148,380; July 27; Gaz. vol. 216; p. 1263.
- Haskell, Henry L., Ludington, Mich. Folding table. No. 1,131,780; Mar. 16; Gaz. vol. 212; p. 743.
- Haskell, Henry L., Ludington, Mich. Folding table. No. 1,136,129; Apr. 20; Gaz. vol. 213; p. 806.
- Haskell, Henry L., Ludington, Mich. Dust-guard for car journal-boxes. No. 1,153,551; Sept. 14; Gaz. vol. 218; p. 461.
- Haskell, Homer E., Huntington, W. Va. Injector. No. 1,161,127; Nov. 23; Gaz. vol. 220; p. 1088.
- Haskell, John B., Newton Highlands, Mass. Automatic pump. No. 1,151,009; Aug. 24; Gaz. vol. 217; p. 1115.
- Haskell, Louis W., New York, N. Y., assignor to General Fire Extinguisher Company, Providence, R. I. Anti-freezing means for sprinkler-pipes. No. 1,134,380; Apr. 6; Gaz. vol. 213; p. 108.
- Haskell, Samuel, assignor to Fair and Carnival Trading Co., Inc., New York, N. Y. Doll-mold. No. 1,154,247; Sept. 21; Gaz. vol. 218; p. 735.
- Haskin, Walter E., New York, N. Y. Receptacle. No. 1,162,917; Dec. 7; Gaz. vol. 221; p. 63.
- Haskin, Walter E., Flushing, N. Y. Electric welding apparatus. No. 1,162,918; Dec. 7; Gaz. vol. 221; p. 64.
- Haskins, Bradley, Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, Switch. No. 1,123,870; Jan. 5; Gaz. vol. 210; p. 229.
- Haskins, George E., Milford, Conn. Cattle-stanchion. No. 1,141,630; June 1; Gaz. vol. 215; p. 193.
- Haskins, John F., New York, N. Y. Non-offset surface-covering for impression-cylinders. No. 1,148,381; July 27; Gaz. vol. 216; p. 1263.
- Haskins, William B., Los Angeles, Cal. Low-water safety apparatus for steam-boilers. No. 1,162,160; Nov. 30; Gaz. vol. 220; p. 1498.
- Haskins, William F., San Francisco, assignor to M. Bernard, Alameda, Cal. Building-block. No. 1,150,363; Aug. 17; Gaz. vol. 217; p. 835.
- Haskins, William H., San Jose, Cal. Roller window-screen. No. 1,132,773; Mar. 23; Gaz. vol. 212; p. 1153.
- Haslage, Frank H., (See Buzard, Cole, and Haslage.)
- Haslett, John D. S., Philadelphia, Pa. Gun recoil mechanism. No. 1,147,941; July 27; Gaz. vol. 216; p. 1195.
- Haslup, Dodson, Grafton, W. Va. Milk-bottle cap or cover. No. 1,151,875; Aug. 31; Gaz. vol. 217; p. 1459.
- Hassel, Nels H., Los Angeles, Cal. Shoe. No. 1,126,458; Jan. 26; Gaz. vol. 210; p. 1266.
- Hasselkus, John W., assignor to Ross Limited, Clapham Common, London, England. Periscope and the like. No. 1,131,514; Mar. 9; Gaz. vol. 212; p. 614.
- Hasseries, James P., Columbus, Ohio. Grass-catcher. No. 1,153,383; Sept. 14; Gaz. vol. 218; p. 399.
- Hasseries, William A., Evansville, Ind. Awning. No. 1,151,266; Aug. 24; Gaz. vol. 217; p. 1203.
- Hassett, Anna F., (See Hassett and Darragh, assignors.)
- Hassett, Edmund J., Yonkers, N. Y., and E. E. Darragh, Boonton, N. J., assignors, by mesne assignments, to A. F. Hassett, Yonkers, N. Y. Reel. No. 1,143,904; June 22; Gaz. vol. 215; p. 1085.
- Hassinger, George A., (See Berger and Hassinger.)
- Hasskari, William S., Philadelphia, Pa. Footmobile. No. 1,124,897; Jan. 12; Gaz. vol. 210; p. 640.
- Hassler, Charles A., Waynesboro, Pa. Glazier's tool. No. 1,126,996; Feb. 2; Gaz. vol. 211; p. 116.
- Hassler, Robert H., Indianapolis, Ind. Spring suspension for vehicles. No. 1,130,897; Mar. 9; Gaz. vol. 212; p. 402.
- Hassler, Robert H., Indianapolis, Ind. Vehicle. No. 1,149,756; Aug. 10; Gaz. vol. 217; p. 558.
- Hassler, Robert H., Indianapolis, Ind. Radius-rod attachment means. No. 1,164,618; Dec. 14; Gaz. vol. 221; p. 702.
- Hassler, Robert H., Indianapolis, Ind. Volute-spring-equipped radius-rod. No. 1,165,405; Dec. 28; Gaz. vol. 221; p. 1058.
- Hastings, Chive, Atchison, Kans. Supplemental tire for vehicle-wheels. No. 1,127,239; Feb. 2; Gaz. vol. 211; p. 203.
- Hastings, Donald T., (See Watts and Hastings.)
- Hastings, Donald T., assignor to Hupp Motor Car Company, Detroit, Mich. Lapping-machine. No. 1,139,520; May 18; Gaz. vol. 214; p. 706.
- Hastings, Elmer L., Ashland, Oreg. Spring wagon-tongue. No. 1,127,240; Feb. 2; Gaz. vol. 211; p. 203.
- Hastings, Herbert, Brighton, N. Y. Fluid-gage. No. 1,126,997; Feb. 2; Gaz. vol. 211; p. 117.
- Hastings, Herbert, assignor to German American Button Company, Rochester, N. Y. Button-turning machine. No. 1,152,315; Aug. 31; Gaz. vol. 217; p. 1609.
- Hastings, Horace H., Toronto, Ontario, Canada. Hydro-carbon-burner. No. 1,160,886; Nov. 16; Gaz. vol. 220; p. 957.
- Hastings, Ruben C. M., assignor to The International Telephone Co., Columbus, Ohio. Selective system of telephony. (Reissue.) No. 13,989; Sept. 28; Gaz. vol. 218; p. 1132.
- Hastings, William H., (See Matthews, Joseph, assignor.)
- Hastreiter, Micke, near Bertha, Minn. Adjustable wash-stand. No. 1,135,181; Apr. 13; Gaz. vol. 213; p. 435.
- Hasty, Otis R., Elgin, Ill. Adjustable rotary hub for furniture. No. 1,160,108; Nov. 9; Gaz. vol. 220; p. 629.
- Hat Manufacturers Supply Company Limited, The. (See Webb, Cyrus, assignor.)
- Hatch, Austin S., Detroit, Mich., assignor to T. H. Ferguson, Oak Park, Ill. Welding-machine. No. 1,145,413; July 6; Gaz. vol. 216; p. 153.
- Hatch, Frank M., (See Fitzgerald and Hatch, assignors.)
- Hatch, James W., North Girard, assignor to W. E. Dewey, Meadville, Pa. Garment-stay. No. 1,163,006; Dec. 7; Gaz. vol. 221; p. 95.
- Hatch, Ralph S., (See Fitzgerald and Hatch.)
- Hatch, Rosa D., Memphis, Tenn. Amplifier for telephones. No. 1,137,614; Apr. 27; Gaz. vol. 213; p. 1371.
- Hatcher, William A., Grand Rapids, Mich. Clutch mechanism for transmitting rotary motion. No. 1,162,605; Nov. 30; Gaz. vol. 220; p. 1648.
- Hatchett, Charles L., and E. G. Rhodes, London, England. Machine for gumming and applying labels to bottles, cans, and similar objects. No. 1,141,053; May 25; Gaz. vol. 214; p. 1278.
- Hatfield, Andrew L., Newark, N. J. Machine for sharpening safety-razor blades. No. 1,123,871; Jan. 5; Gaz. vol. 210; p. 230.
- Hatfield, Andrew L., Newark, N. J. Machine for sharpening safety-razor blades, &c. No. 1,124,733; Jan. 12; Gaz. vol. 210; p. 581.
- Hatfield, Charles B., Elmira, N. Y. Fuel-mixing device for internal-combustion engines. No. 1,130,278; Mar. 2; Gaz. vol. 212; p. 152.
- Hatfield, Charles B., Elmira, N. Y. Fuel-mixing device for internal-combustion engines. No. 1,131,371; Mar. 9; Gaz. vol. 212; p. 564.
- Hatfield, Corbin D., Andrews, Nebr. Potato-planter. No. 1,160,887; Nov. 16; Gaz. vol. 220; p. 958.
- Hatfield, Harry M., Chicago, Ill. Game. No. 1,161,770; Nov. 23; Gaz. vol. 220; p. 1313.
- Hatfield, Hiram A., (See Buchanan, James G., assignor.)
- Hatfield, Hiram A., Nogales, Ariz., assignor, by mesne assignments, to International Air-Brake Company, Wilmington, Del. Valve mechanism. No. 1,149,259; Aug. 10; Gaz. vol. 217; p. 377.
- Hatfield, Hiram A., Nogales, Ariz., assignor, by mesne assignments, to International Air-Brake Company, Wilmington, Del. Valve mechanism. No. 1,149,365; Aug. 10; Gaz. vol. 217; p. 416.
- Hathaway, Claude P., assignor to one-half to J. G. Robinson, Coffeyville, Kans. Sash-lock. No. 1,152,728; Sept. 7; Gaz. vol. 218; p. 127.
- Hathaway, Daniel, (See Jones and Hathaway.)
- Hathaway, Edgar F., (See Lanning and Hathaway.)
- Hathaway, Edgar F., Dorchester, Mass., assignor to American Warp Drawing Machine Company. Warp-thread-separating mechanism. No. 1,147,395; July 20; Gaz. vol. 216; p. 888.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, assignors to American Warp Drawing Machine Company, Boston, Mass. Mechanism for selecting warp-threads or the like. No. 1,147,394; July 20; Gaz. vol. 216; p. 888.
- Hathaway, Edgar F., Dorchester, and C. Lea, assignors to American Warp Drawing Machine Company, Boston, Mass. Detached heddles and means and methods for assembling and handling the same. No. 1,149,137; Aug. 3; Gaz. vol. 217; p. 228.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, Mass., assignors to American Warp Drawing Machine Company. Machine for handling tuft-yarns for carpet-looms. No. 1,152,379; Aug. 31; Gaz. vol. 217; p. 1633.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, Mass., assignors to American Warp Drawing Machine Company. Machine for handling tuft-yarns for carpet-looms. No. 1,152,380; Aug. 31; Gaz. vol. 217; p. 1634.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, Mass., assignors to American Warp-Drawing Machine Company. Machine for handling tuft-yarns for carpet-looms. No. 1,153,864; Sept. 14; Gaz. vol. 218; p. 570.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, Mass., assignors to American Warp-Drawing Machine Company. Mechanism for handling tuft-yarns for carpet-looms. No. 1,153,865; Sept. 14; Gaz. vol. 218; p. 570.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, Mass., assignors to American Warp-Drawing Machine Company. Mechanism for handling tuft-yarns for carpet-looms. No. 1,153,866; Sept. 14; Gaz. vol. 218; p. 570.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, Mass., assignors to American Warp-Drawing Machine Company. Mechanism for handling tuft-yarns for carpet-looms. No. 1,153,867; Sept. 14; Gaz. vol. 218; p. 571.
- Hathaway, Edgar F., and C. Lea, Boston, Mass., assignors to American Warp Drawing Machine Company. Harness-support for drawing-in machines. No. 1,150,595; Aug. 17; Gaz. vol. 217; p. 916.

Alphabetical list of patentees—Continued.

- Hathaway, Hosen, Boston, Mass. Weighing and adding scale. No. 1,153,222; Sept. 14; Gaz. vol. 218; p. 341.
- Hathaway, Thomas F., assignor to Illinois Watch Case Co., Elgin, Ill. Convertible watchcase. No. 1,139,415; May 11; Gaz. vol. 214; p. 633.
- Hathaway, Thomas F., assignor to Illinois Watch Case Company, Elgin, Ill. Convertible watchcase. No. 1,139,416; May 11; Gaz. vol. 214; p. 633.
- Hathaway, Thomas F., assignor to Illinois Watch Case Company, Elgin, Ill. Attachment for wrist-watches. No. 1,153,075; Sept. 7; Gaz. vol. 218; p. 251.
- Hathaway, Thomas F., assignor to Illinois Watch Case Company, Elgin, Ill. Attachment for wrist-watches. No. 1,162,480; Nov. 30; Gaz. vol. 220; p. 1607.
- Hathaway, Thomas F., assignor to Elgin American Manufacturing Co., Elgin, Ill. Cigarette-case. No. 1,156,598; Oct. 12; Gaz. vol. 219; p. 468.
- Hathcock, Alius G., San Francisco, Cal. Carbureter. No. 1,125,525; Jan. 19; Gaz. vol. 210; p. 898.
- Hatheway, William E., Bridgeport, Conn. Chair-tip. No. 1,144,962; June 29; Gaz. vol. 215; p. 1479.
- Hathorne, Sherman A., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Counter-bracket. No. 1,155,149; Sept. 28; Gaz. vol. 218; p. 1073.
- Hatley, Lane H., Memphis, Tenn. Attachment for awnings. No. 1,162,161; Nov. 30; Gaz. vol. 220; p. 1498.
- Hatt, Joseph A. H., Brooklyn, N. Y. Producing printing-plates. No. 1,134,381; Apr. 6; Gaz. vol. 213; p. 108.
- Hatt, Joseph A. H., Brooklyn, N. Y. Making printing-plates and printing in colors. No. 1,134,382; Apr. 6; Gaz. vol. 213; p. 109.
- Hatt, Joseph A. H., New York, assignor to H. Knudsen, Brooklyn, N. Y. Producing planographic printing-plates. No. 1,151,459; Aug. 24; Gaz. vol. 217; p. 1266.
- Hatt, Joseph A. H., New York, assignor to H. Knudsen, Brooklyn, N. Y. Process and apparatus for making printing-plates. No. 1,151,460; Aug. 24; Gaz. vol. 217; p. 1266.
- Hatt, Joseph A. H., New York, assignor to H. Knudsen, Brooklyn, N. Y. Making printing-plates. No. 1,151,461; Aug. 24; Gaz. vol. 217; p. 1266.
- Hatt, Mabel K., Brooklyn, N. Y. Producing printing-plates. No. 1,162,162; Nov. 30; Gaz. vol. 220; p. 1498.
- Hattersley, George A., *et al.* (See Strub, Gustav, assignor.)
- Hattersley, George A., Norwood, and G. A. Strub, Toledo, assignors to said George A. Hattersley, W. C. Hattersley and D. E. Hunt, Cincinnati, Ohio, and E. B. Cornell, Philadelphia, Pa. Metallic wheel. No. 1,161,810; Nov. 23; Gaz. vol. 220; p. 1328.
- Hattersley, John M., London, England. Washing device. No. 1,163,533; Dec. 7; Gaz. vol. 221; p. 279.
- Hattersley and Sons, George. (See Shackleton, George W., assignor.)
- Hattersley, Will C., *et al.* (See Hattersley and Strub, assignors.)
- Hattersley, Will C., *et al.* (See Strub, Gustav, assignor.)
- Hatton, Joseph E., Brooklyn, N. Y. Railway-tie. No. 1,154,013; Sept. 21; Gaz. vol. 218; p. 655.
- Hatton, Manson C., Upland, Cal. Tension control. No. 1,152,316; Aug. 31; Gaz. vol. 217; p. 1610.
- Hatvany, Gabor, Newell, Pa. Bottle. No. 1,147,629; July 20; Gaz. vol. 216; p. 969.
- Hatzig, Hans. (See Ach, Rothmann, and Hatzig.)
- Haubens, Henry, *et al.* (See Smith, Clarence I. W., assignor.)
- Hauber, August, Hayward, assignor to F. E. Booth, San Francisco, Cal. Apparatus for cleaning fish. No. 1,134,529; Apr. 6; Gaz. vol. 213; p. 163.
- Hauber, August, Hayward, assignor to F. E. Booth, San Francisco, Cal. Cleaning fish. No. 1,134,530; Apr. 6; Gaz. vol. 213; p. 163.
- Hauber, Ernest M., Hammond, Ind. Paper-lifter. No. 1,134,848; Apr. 6; Gaz. vol. 213; p. 275.
- Hauch, John N., Pittsburgh, Pa. Skate attachment. No. 1,143,624; June 22; Gaz. vol. 215; p. 990.
- Haucke, Paul. (See Rose, Marcus, and Klenz, assignors.)
- Hauer, Anthony, Chattanooga, Tenn. Hook. No. 1,165,406; Dec. 28; Gaz. vol. 221; p. 1059.
- Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 1,124,613; Jan. 12; Gaz. vol. 210; p. 539.
- Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 1,124,614; Jan. 12; Gaz. vol. 210; p. 539.
- Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 1,124,734; Jan. 12; Gaz. vol. 210; p. 582.
- Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaning apparatus. No. 1,147,237; July 20; Gaz. vol. 216; p. 832.
- Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 1,147,238; July 20; Gaz. vol. 216; p. 832.
- Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner. No. 1,163,661; Dec. 14; Gaz. vol. 221; p. 368.
- Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Filter. No. 1,163,662; Dec. 14; Gaz. vol. 221; p. 368.
- Hauerbach, Arthur A., and H. G. Allan, Stockton, Cal. Tobacco-pipe filler. No. 1,163,751; Dec. 14; Gaz. vol. 221; p. 402.
- Haug, Anton J., assignor to The Improved Paper Machinery Company, Nashua, N. H. Centrifugal pulp-screen. No. 1,147,239; July 20; Gaz. vol. 216; p. 833.
- Haug, Anton J., assignor to Improved Paper Machinery Company, Nashua, N. H. Method of and apparatus for forming webs from paper-pulp. No. 1,163,998; Dec. 14; Gaz. vol. 221; p. 487.
- Haug, Charles E., and H. E. Magnuson, Brooklyn, N. Y. Starch-mold. No. 1,162,771; Dec. 7; Gaz. vol. 221; p. 14.
- Haugh, Frank A., Independence, Kans. Underreamer. No. 1,137,615; Apr. 27; Gaz. vol. 213; p. 1372.
- Haugh, Frank A., Independence, Kans. Underreamer. No. 1,149,512; Aug. 10; Gaz. vol. 217; p. 467.
- Haugh, Frank A., assignor to A. B. Bloom, Independence, Kans. Underreamer. No. 1,144,195; June 22; Gaz. vol. 215; p. 1138.
- Haugh, James G., Bascom, Ohio. Raling-press. No. 1,142,704; June 8; Gaz. vol. 215; p. 603.
- Haugh, Ross L. and W. G., Cleveland, Ohio. Linoleum-stretcher. No. 1,148,965; Aug. 3; Gaz. vol. 217; p. 170.
- Haugh, William G. (See Haugh, Ross L. and W. G.)
- Haugland, Andrew, Sioux City, Iowa. Lawn-mower. No. 1,139,180; May 11; Gaz. vol. 214; p. 552.
- Hauk, Joseph, Jr. (See Weaver and Hauk.)
- Hauu, Harve G. (See Chalfant and Hauu.)
- Haupt, Rudolph, Fresno, Cal. Vehicle-spring. No. 1,156,996; Oct. 19; Gaz. vol. 219; p. 638.
- Haurry, George W., Chicago, Ill. Internal-combustion engine. No. 1,157,387; Oct. 19; Gaz. vol. 219; p. 778.
- Haus, Henry, Pope Valley, Cal. Resilient tire. No. 1,151,462; Aug. 24; Gaz. vol. 217; p. 1267.
- Hausam, Adam, assignor of one-half to J. F. Kite, Visalia, Cal. Flame and spark checking device. No. 1,130,593; Mar. 2; Gaz. vol. 212; p. 263.
- Hausamann, Carl H., Hamburg, Germany, assignor to De Nordiske Fabrikker De-No-Fa Aktieselskap, Christiania, Norway. Converting unsaturated oleic and fatty acids and their esters into saturated compounds. No. 1,145,480; July 6; Gaz. vol. 216; p. 178.
- Hausammann, Alfred, Peoria, Ill. Purse. No. 1,143,825; June 22; Gaz. vol. 215; p. 1058.
- Hausberg, Ernest, Des Moines, Iowa. Electric type-writer. No. 1,156,288; Oct. 12; Gaz. vol. 219; p. 357.
- Hauser, Otto. (See Herzfeld and Hauser.)
- Hauser, Philip, New York, N. Y. Cigar-box opener. No. 1,149,138; Aug. 3; Gaz. vol. 217; p. 229.
- Hauser-Stander Tank Company, The. (See Bauerle, John, assignor.)
- Hauser, Louis A., Chicago, Ill. Trolley-line anchor. No. 1,147,799; July 27; Gaz. vol. 216; p. 1054.
- Hausman, George, *et al.* (See Gage, Will V., assignor.)
- Hauss, Albert F., Aurora, Ind., assignor of one-third to E. F. Oberhelman, Cincinnati, Ohio, and one-third to G. Lubrecht, Covington, Ky. Coin-actuated mechanism. No. 1,146,620; July 13; Gaz. vol. 216; p. 597.
- Hauss, Albert F., Aurora, Ind., assignor of one-third to E. F. Oberhelman, Cincinnati, Ohio, and one-third to G. Lubrecht, Covington, Ky. Automatic control for musical instruments. No. 1,148,452; July 27; Gaz. vol. 216; p. 1285.
- Hauss, David J., Aurora, Ind. Music-player tracker mechanism. No. 1,128,976; Feb. 16; Gaz. vol. 211; p. 899.
- Hauss, David J., Aurora, Ind. Dedicating food products. No. 1,163,339; Dec. 7; Gaz. vol. 221; p. 212.
- Hauss, David J., and A. Dom, Aurora, Ind. Music-player. No. 1,138,103; May 4; Gaz. vol. 214; p. 135.
- Haussermann, Frederick W., Chicago, Ill. Preserving potatoes and other vegetables. No. 1,149,914; Aug. 10; Gaz. vol. 217; p. 615.
- Hausson, A. Herman. (See Anderson, Edward, assignor.)
- Haustetter, Alfred P., Norwood, assignor to The Victor Safe & Lock Company, Cincinnati, Ohio. Safe-locking device. No. 1,132,089; Mar. 16; Gaz. vol. 212; p. 854.
- Hautier, Joseph A. (See Worsham and Hautier.)
- Havana-American Co. (See Stern, Irving L., assignor.)
- Havana Commercial Company. (See Alemany, Joaquin, assignor.)
- Havas, Julius, Sarbogard, Austria-Hungary. Plowing mechanism. No. 1,127,759; Feb. 9; Gaz. vol. 211; p. 423.
- Havemeyer, John F., Ardsley-on-Hudson, N. Y. Reinforcing means for concrete. No. 1,151,947; Aug. 31; Gaz. vol. 217; p. 1481.
- Haven, John N., Walla Walla, Wash. Soldering-lamp. No. 1,163,007; Dec. 7; Gaz. vol. 221; p. 96.
- Haven, Louis E. (See Arnold, Matthew, assignor.)
- Havener, Arthur R., Waltham, Mass., assignor to Judson L. Thomson Mfg Co. Hopper. No. 1,130,898; Mar. 9; Gaz. vol. 212; p. 403.
- Havener, Arthur R., Waltham, Mass., assignor to Judson L. Thomson Mfg Co. Hopper for feeding rivet-caps. No. 1,157,306; Oct. 19; Gaz. vol. 219; p. 748.
- Havener, Arthur R., Waltham, Mass., assignor to American Lacing Hook Co. Clutch mechanism. No. 1,165,407; Dec. 28; Gaz. vol. 221; p. 1059.
- Havener, V. O., *et al.* (See Reasoner, James A., assignor.)

Alphabetical list of patentees—Continued.

- Havens, Alonzo, assignor of one-half to C. E. Sharp, Elgin, Ill.; Vehicle steering device and antirattler. No. 1,160,888; Nov. 16; Gaz. vol. 220; p. 958.
- Havens, Edward W., *et al.* (See Roop, Clarence H., assignor.)
- Havens, George F., Sterling, Ill. Poster-display machine. No. 1,130,084; Mar. 2; Gaz. vol. 212; p. 84.
- Havens, Howard G., *et al.* (See Roop, Clarence H., assignor.)
- Havens, Howell S. (See Watson, Chester A., assignor.)
- Havens, John T., Asbury Park, N. J. Aeroplane-guy-wire tightener. No. 1,165,168; Dec. 21; Gaz. vol. 221; p. 937.
- Havens, Morton, Jr., Albany, N. Y. Branch box. No. 1,135,894; Apr. 13; Gaz. vol. 213; p. 684.
- Havens, Raymond M. (See Higgins, Albert G., assignor.)
- Havenstein, George, San Francisco, Cal. Auxiliary car for motor-cycles. No. 1,145,682; July 6; Gaz. vol. 216; p. 246.
- Haverhill Shoe Machinery Company. (See Pettengill, George M., assignor.)
- Haverhill Shoe Machinery Company. (See Webster, Edwin A., assignor.)
- Haverley, Foster W., Covington, Pa. Lid for cooking vessels. No. 1,123,285; Jan. 5; Gaz. vol. 210; p. 28.
- Havers, Ephraim W., London, England. Apparatus for distance gas-lighting. No. 1,132,933; Mar. 23; Gaz. vol. 212; p. 1212.
- Haverstick, George W., and T. J. McKee, St. Louis, Mo. Sanitary filling-valve. No. 1,140,514; May 25; Gaz. vol. 214; p. 1092.
- Havlicek, John, and J. B. Scullane, Springfield, Mass. Gun-cleaner. No. 1,156,683; Oct. 12; Gaz. vol. 219; p. 490.
- Hawaiian Pineapple Company. (See Hill, John, assignor.)
- Hawes, Alexander G. (See Armstrong, John J., assignor.)
- Hawes, Alfred B., and J. Wheeler, London, England. Safety-catch for hand-bags, attaché-cases, and the like. No. 1,163,534; Dec. 7; Gaz. vol. 221; p. 279.
- Hawk, Hale E., West Point, Miss. Separating and mottle-cleaning machine. No. 1,151,876; Aug. 31; Gaz. vol. 217; p. 1459.
- Hawk, Olan V. (See Kimball and Hawk.)
- Hawk, Walter S., Cincinnati, Ohio. Dispensing-cabinet. No. 1,124,615; Jan. 12; Gaz. vol. 210; p. 540.
- Hawke, Thomas F., Lewistown, Pa. Bag-holder. No. 1,132,181; Mar. 16; Gaz. vol. 212; p. 888.
- Hawkeye Pearl Button Company. (See Vetter, Frederick C., assignor.)
- Hawkins, Andrew P., Newport News, Va. Trolley-guard. No. 1,165,595; Dec. 28; Gaz. vol. 221; p. 1123.
- Hawkins, Charles A., Indianapolis, Ind. Chest for motor cars. No. 1,146,759; July 13; Gaz. vol. 216; p. 644.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Sheet-coating machine. No. 1,133,024; Mar. 23; Gaz. vol. 212; p. 1247.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Safety operating mechanism. No. 1,133,025; Mar. 23; Gaz. vol. 212; p. 1247.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-making machine. No. 1,157,220; Oct. 19; Gaz. vol. 219; p. 718.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Reinforced paper-board box. No. 1,158,130; Oct. 26; Gaz. vol. 219; p. 1099.
- Hawkins, Elbert E., Unadilla, N. Y. Door-fastening device for silos. No. 1,132,774; Mar. 23; Gaz. vol. 212; p. 1154.
- Hawkins, Fletcher M., Peniel, Tex. Automatic shutter for poultry-houses and the like. No. 1,163,663; Dec. 14; Gaz. vol. 221; p. 368.
- Hawkins, Frank E., assignor of one-half to G. W. Barnes, Deerfield, Kans. Spark-plug. No. 1,162,919; Dec. 7; Gaz. vol. 221; p. 64.
- Hawkins, Gardner C., Winthrop, assignor, by mesne assignments, to C. D. Lanning, Boston, Mass. Air-heater. No. 1,159,669; Nov. 9; Gaz. vol. 220; p. 472.
- Hawkins, George W., Providence, R. I. Flat-iron holder and waxer. No. 1,140,265; May 18; Gaz. vol. 214; p. 967.
- Hawkins, Harry S., A. M. Green, and I. W. Gibbins, Alturas, Cal. Storage battery. No. 1,159,021; Nov. 2; Gaz. vol. 220; p. 211.
- Hawkins, Homer L. (See Hawkins, James L., assignor.)
- Hawkins, Homer L., Santa Barbara, Cal. Bulkhead-boist. No. 1,148,382; July 27; Gaz. vol. 216; p. 1263.
- Hawkins, J. C. (See Gage, Daniel W., assignor.)
- Hawkins, J. C., Newton, Iowa. Paper-fastener. No. 1,130,594; Mar. 2; Gaz. vol. 212; p. 263.
- Hawkins, J. C., Newton, Iowa. Paper-fastener. No. 1,130,595; Mar. 2; Gaz. vol. 212; p. 264.
- Hawkins, James L., assignor to H. L. Hawkins, Santa Barbara, Cal. Fruit-picker. No. 1,134,849; Apr. 6; Gaz. vol. 213; p. 275.
- Hawkins, Jamison O., Louisville, Ky. Figure toy. No. 1,154,014; Sept. 21; Gaz. vol. 218; p. 655.
- Hawkins, Joseph, and B. F. Loftin, Eminence, Mo. Governor attachment. No. 1,141,054; May 25; Gaz. vol. 214; p. 1279.
- Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company. Railway signaling system. No. 1,126,206; Jan. 26; Gaz. vol. 210; p. 1177.
- Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company. Block-signal system. No. 1,126,459; Jan. 26; Gaz. vol. 210; p. 1266.
- Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. System of distribution. No. 1,131,237; Mar. 9; Gaz. vol. 212; p. 518.
- Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Electric lamp. No. 1,132,008; Mar. 16; Gaz. vol. 212; p. 825.
- Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to Union Switch and Signal Company. Relay. No. 1,152,088; Aug. 31; Gaz. vol. 217; p. 1532.
- Hawkins, Laurence A., Schenectady, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company. Block-signal system. No. 1,157,104; Oct. 19; Gaz. vol. 219; p. 676.
- Hawkins, Leo O. (See Stewart, Hawkins, and Mosher.)
- Hawkins, Lewis M., Carrollton, Mo. Guard means for the cutting mechanism of binders, mowers, &c. No. 1,165,169; Dec. 21; Gaz. vol. 221; p. 938.
- Hawkins, Mason A., Baltimore, Md. Music-cabinet. No. 1,135,281; Apr. 13; Gaz. vol. 213; p. 463.
- Hawkins, Robert N., Helena, Mont. Filing-case. No. 1,134,266; Apr. 6; Gaz. vol. 213; p. 67.
- Hawkins, Thomas, Balmaln, near Sydney, New South Wales, Australia. Manufacture of explosives. No. 1,151,180; Aug. 24; Gaz. vol. 217; p. 1174.
- Hawks, Moses L., New York, N. Y. Game. No. 1,150,517; Aug. 17; Gaz. vol. 217; p. 888.
- Hawks, Moses L., New York, N. Y. Sharpening device. No. 1,158,048; Oct. 26; Gaz. vol. 219; p. 1070.
- Hawks, William, assignor to Hugo Manufacturing Company, Duluth, Minn. Radiator. No. 1,131,372; Mar. 9; Gaz. vol. 212; p. 564.
- Hawksley, Arthur F., Fairhaven, England. Resilient wheel. No. 1,159,218; Nov. 2; Gaz. vol. 220; p. 282.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,126,760; Feb. 2; Gaz. vol. 211; p. 34.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,130,279; Mar. 2; Gaz. vol. 212; p. 152.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,130,280; Mar. 2; Gaz. vol. 212; p. 153.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car. No. 1,137,967; May 4; Gaz. vol. 214; p. 86.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,137,968; May 4; Gaz. vol. 214; p. 87.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,144,761; June 29; Gaz. vol. 215; p. 1412.
- Hawksworth, Percy, Earlsheld, assignor to C. B. Burdon, London, England. Safety device for motor-vehicles. No. 1,127,241; Feb. 2; Gaz. vol. 211; p. 203.
- Hawley, Alonzo S. (See Funk, John L., assignor.)
- Hawley, Amos H., assignor to International Money Machine Company, Terre Haute, Ind. Reserve-coin tray. No. 1,161,666; Nov. 23; Gaz. vol. 220; p. 1278.
- Hawley, Anne P., Bridgeport, Conn. Heat-retaining oven. No. 1,140,154; May 18; Gaz. vol. 214; p. 931.
- Hawley, Charles G., assignor to K. Nut Co., Chicago, Ill. Nut-lock. No. 1,154,698; Sept. 28; Gaz. vol. 218; p. 919.
- Hawley, Charles G., and E. K. Baker, assignors to Universal Rim Company, Chicago, Ill. Pneumatic-tire mounting. No. 1,142,516; June 8; Gaz. vol. 215; p. 541.
- Hawley, Charles G., and E. K. Baker, assignors to Universal Rim Company, Chicago, Ill. Pneumatic-tire mounting. No. 1,155,417; Oct. 5; Gaz. vol. 219; p. 33.
- Hawley, Edgar R., Salt Lake City, Utah. Automatic trap. No. 1,149,915; Aug. 10; Gaz. vol. 217; p. 615.
- Hawley, Frederic A. (See White and Hawley.)
- Hawley, Frederick A., Hammond, Ind. Apparatus for administering medical treatment. No. 1,142,422; June 8; Gaz. vol. 215; p. 508.
- Hawley, George W., Bridgeport, Conn., assignor to The Kny Scheerer Company, New York, N. Y. Orthopedic table. No. 1,126,460; Jan. 26; Gaz. vol. 210; p. 1267.
- Hawley, John, Green River, Wyo. Water-motor. No. 1,143,905; June 22; Gaz. vol. 215; p. 1085.
- Hawley, John F., Chillicothe, Mo. Combined railway-tie and rail-clamp. No. 1,134,130; Apr. 6; Gaz. vol. 213; p. 17.
- Hawley, John F., Chillicothe, Mo. Rail chair and clamp. No. 1,162,057; Nov. 30; Gaz. vol. 220; p. 1461.
- Hawley, Rolland F., and F. L. Rohanan, assignors of one-third to H. F. Getze, Pullman, Ill. Heater. No. 1,147,396; July 20; Gaz. vol. 216; p. 888.
- Hawley, William D., assignor to Monitor Time Clock Co., Syracuse, N. Y. Time-recorder. No. 1,124,132; Jan. 5; Gaz. vol. 210; p. 317.

Alphabetical list of patentees—Continued.

- Hawley, William D., assignor to Monitor Time Clock Co., Syracuse, N. Y. Card-rack. No. 1,156,401; Oct. 12; Gaz. vol. 219; p. 400.
- Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Gear-pump. No. 1,129,090; Feb. 23; Gaz. vol. 211; p. 973.
- Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Rotary pump. No. 1,129,091; Feb. 23; Gaz. vol. 211; p. 974.
- Hawley, William H. (See Davis, Henke, and Hawley.)
- Haworth, Allen, Mabton, Wash. Weeder or cultivator. No. 1,144,196; June 22; Gaz. vol. 215; p. 1189.
- Haworth, Charles L. (See Butts and Haworth.)
- Haworth, Henry G. (See Layton and Haworth.)
- Haworth, Isom P., Los Angeles, Cal. Foldable ironing-board. No. 1,135,895; Apr. 13; Gaz. vol. 213; p. 684.
- Haws, William H., Johnstown, Pa. Metallic railway-tie construction. No. 1,151,463; Aug. 24; Gaz. vol. 217; p. 1267.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Acoustic apparatus. No. 1,158,049; Oct. 26; Gaz. vol. 219; p. 1070.
- Hawthorne, Louis A., Newark, N. J. Measuring instrument. No. 1,142,423; June 8; Gaz. vol. 215; p. 508.
- Hawthorne Manufacturing Company, The. (See Madden, Edward J., assignor.)
- Hawthorne Manufacturing Company, The. (See Philippson, Asmus, assignor.)
- Hawthorne Manufacturing Company, The. (See Welker, Alexander H., assignor.)
- Hawthorne, Primm R., Battle Creek, Mich. Shoe-operating mechanism for grain-separators. No. 1,138,591; May 4; Gaz. vol. 214; p. 303.
- Hawtreys, Arthur, Buenos Aires, Argentina. Shearing or clipping machine. No. 1,163,819; Dec. 14; Gaz. vol. 221; p. 427.
- Haxton, Elmer C., New Haven, Conn. Lubricating-ring. No. 1,164,090; Dec. 14; Gaz. vol. 221; p. 520.
- Hay, Charles E., Ilford, and H. W. Sullivan, London, England. Electrical resistance. No. 1,155,058; Sept. 28; Gaz. vol. 218; p. 1040.
- Hay, Franklin S., Elton, Wis. Wrench. No. 1,135,896; Apr. 13; Gaz. vol. 213; p. 685.
- Hay, James. (See Merk, Lawrence A., assignor.)
- Hay, John, Junction City, Kans. Water-wheel. No. 1,149,260; Aug. 10; Gaz. vol. 217; p. 378.
- Hay, John F., Erie, Pa. Commutated-fuel feeder. No. 1,160,283; Nov. 16; Gaz. vol. 220; p. 743.
- Hay, John T., Union City, Ohio. Bearing-adjuster. No. 1,154,512; Sept. 21; Gaz. vol. 218; p. 825.
- Hay, Levi C., assignor to American Type Founders Company, Jersey City, N. J. Printer's ink-knife. No. 1,130,281; Mar. 2; Gaz. vol. 212; p. 153.
- Hay, Lewis, Pittsburgh, Pa. Vehicle-tire. No. 1,160,508; Nov. 16; Gaz. vol. 220; p. 822.
- Hay, Paul R., Pittsburgh, Pa. Sign-projecting device. No. 1,129,092; Feb. 23; Gaz. vol. 211; p. 974.
- Hay, Robert B. (See Walker and Hay.)
- Hay, William G., Prestwich, England. Apparatus employed in the removal of dust and the like. No. 1,127,242; Feb. 2; Gaz. vol. 211; p. 204.
- Hay, William G., Prestwich, England. Centrifugal air or gas moving or forcing apparatus. No. 1,160,076; Nov. 9; Gaz. vol. 220; p. 617.
- Hayashi, Toyokichi, New York, N. Y. Pin-protector. No. 1,159,022; Nov. 2; Gaz. vol. 220; p. 211.
- Hayde, Stephen J., Kansas City, Mo. Fireproof construction. No. 1,136,874; Apr. 20; Gaz. vol. 213; p. 1071.
- Hayden, David H., New York, N. Y. Reinforcement for the composition covering of structural members. No. 1,156,030; Oct. 5; Gaz. vol. 219; p. 245.
- Hayden, Doctor J. (See Chappelle, Charles, assignor.)
- Hayden, Noah L., Bisbee, Ariz. Vehicle-wheel. No. 1,144,473; June 29; Gaz. vol. 215; p. 1313.
- Haydenville Company, The. (See Page, George M., assignor.)
- Haydon, James R., Chicago, Ill. Air-propeller. No. 1,141,337; June 1; Gaz. vol. 215; p. 88.
- Hayes, Carrie E., Charleston, W. Va. Corset. No. 1,126,207; Jan. 26; Gaz. vol. 210; p. 1177.
- Hayes, Charles E., Brockton, Mass. Thread-feeding attachment for sewing-machines. No. 1,151,585; Aug. 31; Gaz. vol. 217; p. 1358.
- Hayes, Charles J. W., Detroit, Mich., assignor, by mesne assignments, to B. Jones, trustee, St. Louis, Mo. Machine for manufacturing expanded metal. No. 1,125,526; Jan. 19; Gaz. vol. 210; p. 899.
- Hayes, Charles S., Plainfield, N. J., assignor to American High Speed Press Company, New York, N. Y. Automatic chase-locking device. No. 1,162,920; Dec. 7; Gaz. vol. 221; p. 64.
- Hayes, Frank F. (See Bluff, John T., assignor.)
- Hayes, Fred R., Fort Wayne, Ind. Attachment for meters. No. 1,146,704; July 13; Gaz. vol. 216; p. 625.
- Hayes, Frederick M., West Croydon, England. Combined wheel-fender and brake. No. 1,158,804; Nov. 2; Gaz. vol. 220; p. 139.
- Hayes, Harry W., Indianapolis, Ind. Adjustable diaper-drying rack. No. 1,134,045; Mar. 30; Gaz. vol. 212; p. 1641.
- Hayes, Harvey C., Cambridge, Mass., assignor of forty-nine one-hundredths to E. W. Nick, Erie, Pa. Fluid-meter. No. 1,141,631; June 1; Gaz. vol. 215; p. 193.
- Hayes, James L., Marietta, N. C. Lamp-extinguisher. No. 1,159,219; Nov. 2; Gaz. vol. 220; p. 282.
- Hayes, John, Jr., Amsterdam, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,139,863; May 18; Gaz. vol. 214; p. 827.
- Hayes, John, Jr., and J. Berger, Jr., Amsterdam, N. Y., assignors to Union Special Machine Company, Chicago, Ill. Tape-reel for sewing-machines. No. 1,124,735; Jan. 12; Gaz. vol. 210; p. 582.
- Hayes, Joseph S. (See Shepherd and Hayes.)
- Hayes, Lewis S., Cortland, N. Y. Motor-plow. No. 1,165,097; Dec. 21; Gaz. vol. 221; p. 911.
- Hayes, Maurice, Rochester, N. Y. Ash-sifter. No. 1,133,137; Mar. 23; Gaz. vol. 212; p. 1286.
- Hayes, Neenan. (See Burks and Hayes.)
- Hayes Pump & Planter Company. (See Hayes, Ralph W. E., assignor.)
- Hayes, Ralph W. E., assignor to Hayes Pump & Planter Company, Galva, Ill. Drinking-fountain. No. 1,135,690; Apr. 13; Gaz. vol. 213; p. 613.
- Hayes, Ralph W. E., assignor of one-half to Hayes Pump & Planter Company, Galva, Ill. Tank-filler. No. 1,157,692; Oct. 26; Gaz. vol. 219; p. 946.
- Hayes, Samuel S. (See O'Connor, Edmund A., assignor.)
- Hayes, Stanley W., Geneva, N. Y. Connection adjustment. No. 1,156,997; Oct. 19; Gaz. vol. 219; p. 638.
- Hayes, Thomas F., assignor of twenty-four one-hundredths to H. Howard and twenty-four one-hundredths to F. B. Wilkinson, Jackson, Tenn. Manufacturing and applying washout-plugs to all steam-boilers. No. 1,132,260; Mar. 16; Gaz. vol. 212; p. 918.
- Hayes, Thomas F., assignor of twenty-four one-hundredths to H. Howard and twenty-four one-hundredths to F. B. Wilkinson, Jackson, Tenn. Washout-plug. No. 1,163,820; Dec. 14; Gaz. vol. 221; p. 427.
- Hayes, Thomas J., Cleveland, Ohio, assignor to Arbeter Felling Machine Company, Boston, Mass. Blindstitch sewing-machine. No. 1,131,373; Mar. 9; Gaz. vol. 212; p. 565.
- Hayes Wheel Company. (See Butcher and Flick, assignors.)
- Hayes, William P., Miller, S. D. Cuspidor. No. 1,148,897; Aug. 3; Gaz. vol. 217; p. 146.
- Hayford, Abner W., Swampscott, Mass. Golf-club. No. 1,126,208; Jan. 26; Gaz. vol. 210; p. 1178.
- Haymond, Walter O., Muncie, Ind. Electromechanical controlling means for fluid-supplies. No. 1,137,401; Apr. 27; Gaz. vol. 213; p. 1300.
- Hayn, Georg. (See Koch and Hayn.)
- Hayne, Edward G., Ottawa, Ill. Shock-absorber. No. 1,143,906; June 22; Gaz. vol. 215; p. 1085.
- Hayne, Edward G., Ottawa, Ill. Rubbing-post. No. 1,146,069; July 13; Gaz. vol. 216; p. 403.
- Hayne, Edward G., Ottawa, Ill. Device for milking cows. No. 1,146,252; July 13; Gaz. vol. 216; p. 467.
- Hayne, Robert. (See Burton, Charles H., assignor.)
- Hayner, Charles T. (See Langton, Edward A., assignor.)
- Haynes, Charles M., Newark, N. J. Wagon. No. 1,161,049; Nov. 23; Gaz. vol. 220; p. 1061.
- Haynes, Clarence B., Camden, assignor of twenty-two and one-half one-hundredths to C. A. Richardson, ten one-hundredths to W. K. B. Richardson, Haddonfield, N. J., and twenty-two and one-half one-hundredths to M. Liveright, Philadelphia, Pa. Carbureter. No. 1,143,961; June 22; Gaz. vol. 215; p. 1105.
- Haynes, Clarence B., Camden, assignor of twenty-two and one-half one-hundredths to C. A. Richardson, Haddonfield, N. J., twenty-two and one-half one-hundredths to M. Liveright, Philadelphia, Pa., and ten one-hundredths to W. K. B. Richardson, Haddonfield, N. J. Air-moistener. No. 1,143,962; June 22; Gaz. vol. 215; p. 1105.
- Haynes, Elwood, Kokomo, Ind. Noble alloy. No. 1,150,113; Aug. 17; Gaz. vol. 217; p. 746.
- Haynes, Frank, Limon, Colo. Billiard-cue tip. No. 1,153,491; Sept. 14; Gaz. vol. 218; p. 438.
- Haynes, George P., Jersey City, N. J., assignor to Patterson-Allen Engineering Company. Shaft-coupling. No. 1,147,240; July 20; Gaz. vol. 216; p. 833.
- Haynes, Lorenzo E., Salt Lake City, Utah. Coiling device. No. 1,140,980; May 25; Gaz. vol. 214; p. 1254.
- Haynes, Molby, Visalia, Cal. Road-surfacing grader. No. 1,158,805; Nov. 2; Gaz. vol. 220; p. 139.
- Hayot, Louis A., Beauvais, Oise, France. Automatic stabilizing apparatus for aeroplanes. No. 1,154,396; Sept. 21; Gaz. vol. 218; p. 787.
- Hays, Charles W. (See Hays, Joseph W. and C. W.)
- Hays, Edward, Muldrow, Okla. Vehicle-brake. No. 1,135,897; Apr. 13; Gaz. vol. 213; p. 685.
- Hays, Edward W., Riverside, assignor of one-half to J. B. Robertson, Seddon, Ala. Overhead transporting means. No. 1,140,327; May 18; Gaz. vol. 214; p. 989.
- Hays, Emery M., assignor of one-half to S. P. Simon, Chicago, Ill. Locking-screw. No. 1,150,114; Aug. 17; Gaz. vol. 217; p. 747.
- Hays, Franklin B., assignor of one-half to R. K. Syfers, Indianapolis, Ind. Making composition containers. No. 1,149,440; Aug. 10; Gaz. vol. 217; p. 444.

- Hays, Fred, Assumption, Ill. Wire-stretcher. No. 1,131,061; Mar. 9; Gaz. vol. 212; p. 458.
- Hays, Joseph W., Chicago, Ill. Stop-cock. No. 1,137,969; May 4; Gaz. vol. 214; p. 87.
- Hays, Joseph W., Chicago, Ill. Gas-collecting apparatus. No. 1,141,543; June 1; Gaz. vol. 215; p. 163.
- Hays, Joseph W. and C. W., Chicago, Ill. Gas-analyzing apparatus. No. 1,153,911; Sept. 21; Gaz. vol. 218; p. 620.
- Hays, Joseph W. and C. W., Chicago, Ill. Gas absorbing and indicating apparatus for gas-analyzers. No. 1,153,912; Sept. 21; Gaz. vol. 218; p. 620.
- Hays, Joseph W. and C. W., Chicago, Ill. Temperature-controlling apparatus. No. 1,157,866; Oct. 26; Gaz. vol. 219; p. 1006.
- Hays, Leon P., Idaho Springs, Colo. Electric heating and cooking stove. No. 1,161,667; Nov. 23; Gaz. vol. 220; p. 1279.
- Hays, Lewis H., Spokane, Wash., and G. W. Johnson, Mace, Idaho, assignors to American Graphophone Company, Bridgeport, Conn. Automatic lid-support. No. 1,137,484; Apr. 27; Gaz. vol. 213; p. 1328.
- Hays Manufacturing Company. (See Hitchcock, Otto G., assignor.)
- Hays, William F., Osbornes Mills, W. Va. Latch. No. 1,142,166; June 8; Gaz. vol. 215; p. 417.
- Hays, William F., Osbornes Mills, W. Va. Hinge. No. 1,142,167; June 8; Gaz. vol. 215; p. 417.
- Hayter, Guy H., Abingdon, Va. Churn-motor-supporting device. No. 1,149,048; Aug. 3; Gaz. vol. 217; p. 199.
- Hayter, Richard B., assignor of one-half to C. O. Foster, Lawrence, Kans. Puncture-proof tire. No. 1,136,672; Apr. 20; Gaz. vol. 213; p. 999.
- Haythorpe, Charles, Kennington, London, England. Prevention of pitting and corrosion in steam-boilers, heating-boilers for hot-water circulation, calorifiers, and the like. No. 1,127,360; Feb. 2; Gaz. vol. 211; p. 242.
- Hayton, Thomas, Turtle Creek, Pa. Switch for industrial tracks. No. 1,130,165; Mar. 2; Gaz. vol. 212; p. 112.
- Hayward, Chauncey B., West Orange, N. J. Clothes-line holder. No. 1,149,757; Aug. 10; Gaz. vol. 217; p. 558.
- Hayward Company, The. (See Atkinson, Herbert S., assignor.)
- Hayward Company, The. (See Morris, Charles A., assignor.)
- Hayward, Harold A., assignor to Connelly Iron Sponge & Governor Company, New York, N. Y. Automatic cut-off. No. 1,125,315; Jan. 19; Gaz. vol. 210; p. 824.
- Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 1,126,461; Jan. 26; Gaz. vol. 210; p. 1267.
- Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Drive-chain. No. 1,126,462; Jan. 26; Gaz. vol. 210; p. 1267.
- Haywood, Edmund B., Raleigh, N. C. Knife-sharpener. No. 1,131,374; Mar. 9; Gaz. vol. 212; p. 565.
- Haywood, John. (See Haywood, John W., assignor.)
- Haywood, John W., assignor to J. Haywood, Newark, N. Y. Dump-wagon. No. 1,164,281; Dec. 14; Gaz. vol. 221; p. 585.
- Hayworth, William A., Universal, Ind. Bottle. No. 1,127,993; Feb. 9; Gaz. vol. 211; p. 506.
- Hazard, Charles B., near Xenia, Ohio. Harvesting-machine. No. 1,158,050; Oct. 26; Gaz. vol. 219; p. 1070.
- Hazard, Frank R., Santa Ana, Cal. Pump. No. 1,163,535; Dec. 7; Gaz. vol. 221; p. 279.
- Hazard, Frederick J. H., Toronto, Ontario, Canada. Cable-carrier system. No. 1,124,431; Jan. 12; Gaz. vol. 210; p. 473.
- Hazeltine, Reginald, assignor to Wheeling Corrugating Company, Wheeling, W. Va. Coating iron and steel sheets with lead and lead alloys. No. 1,161,475; Nov. 23; Gaz. vol. 220; p. 1213.
- Hazelton, Charles N., Morrison, Ill. Rolling-chair. No. 1,123,872; Jan. 5; Gaz. vol. 210; p. 230.
- Hazelton, Charles N., Morrison, Ill. Rolling-chair. No. 1,142,168; June 8; Gaz. vol. 215; p. 417.
- Hazelton, Hannah, New York, N. Y. Parcel-post protector for mail-sacks. No. 1,139,281; May 11; Gaz. vol. 214; p. 585.
- Hazelton, Robert T., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Mechanism independently controlling each feed. No. 1,125,905; Jan. 19; Gaz. vol. 210; p. 1033.
- Hazelton, Robert T., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Safety-coupling. No. 1,141,461; June 1; Gaz. vol. 215; p. 134.
- Hazelton, Robert T., and S. Einstein, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Automatic machine-tool. No. 1,125,686; Jan. 19; Gaz. vol. 210; p. 957.
- Hazelton, Robert T., and S. Einstein, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Central-control cone-drive machine. No. 1,126,634; Jan. 26; Gaz. vol. 210; p. 1331.
- Hazen, Jean D., assignor of one-half to O. Burns, Sarasota, Fla. Carburetor. No. 1,132,580; Mar. 23; Gaz. vol. 212; p. 1081.
- Hazen, Marshman W., and O. Petermann, New York, N. Y., assignors, by mesne assignments, to Corona Typewriter Company, Incorporated. Paper-feed. No. 1,130,510; Mar. 2; Gaz. vol. 212; p. 235.
- Hazen, Perley F., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Means for supporting levers in track-scales. No. 1,125,687; Jan. 19; Gaz. vol. 210; p. 958.
- Hazlett, Walter H. (See Wray, James A., assignor.)
- Hazzard, Harry C., et al. (See Patterson, Charles A., assignor.)
- Heacock, Frank. (See Buss and Heacock.)
- Heacock, Nathan A., Sullivan, Ill. Irrigating system. No. 1,130,282; Mar. 2; Gaz. vol. 212; p. 153.
- Head, Daniel J., et al. (See Snell, Harry, assignor.)
- Head, Reuben M., Pittsburgh, Pa. Internal-combustion engine. No. 1,156,075; Oct. 12; Gaz. vol. 219; p. 287.
- Head, Robert, assignor to R. L. Watkins, New York, N. Y. Motion-picture machine. No. 1,134,611; Apr. 6; Gaz. vol. 213; p. 192.
- Head, Robert, assignor to J. T. Outerson, New York, N. Y. Lighting system for motor-vehicles. No. 1,157,105; Oct. 19; Gaz. vol. 219; p. 676.
- Headland, Nestor, Chicago, Ill. Machine for pasting, trimming, and cutting wall-paper. No. 1,154,015; Sept. 21; Gaz. vol. 218; p. 655.
- Headley, Albert, Two Harbors, Minn. Truck-brake. No. 1,148,772; Aug. 3; Gaz. vol. 217; p. 105.
- Headley, Arthur L., Modale, Iowa. Wagon-box. No. 1,131,695; Mar. 16; Gaz. vol. 212; p. 712.
- Headley, Frederick H., Edgbaston, Birmingham, England. Bassinet-perambulator or the like. No. 1,161,212; Nov. 23; Gaz. vol. 220; p. 1119.
- Headly, James W., assignor of one-half to O. A. Moore, Omaha, Nebr. Flying-machine. No. 1,133,643; Mar. 30; Gaz. vol. 212; p. 1503.
- Headly, James W., assignor of one-half to O. A. Moore, Omaha, Nebr. Pipe-coupling device. No. 1,160,284; Nov. 16; Gaz. vol. 220; p. 744.
- Headson, Frank A., assignor to H. W. Johns-Manville Company, Milwaukee, Wis. Packing. No. 1,128,247; Feb. 9; Gaz. vol. 211; p. 594.
- Headson, Frank A., assignor to H. W. Johns-Manville Company, Milwaukee, Wis. Wrist-pin for felt-making machines. No. 1,137,757; May 4; Gaz. vol. 214; p. 12.
- Headson, Frank A., assignor to H. W. Johns-Manville Company, Milwaukee, Wis. Packing. No. 1,161,213; Nov. 23; Gaz. vol. 220; p. 1120.
- Heaford, Edwin V., Denver, Colo. Calendar. No. 1,162,606; Nov. 30; Gaz. vol. 220; p. 1648.
- Heagle, James, Johnstown, N. Y. Grip golf-glove. No. 1,149,139; Aug. 3; Gaz. vol. 217; p. 229.
- Heal, William S. (See Behm, Henry, assignor.)
- Heal, William S., Elizabeth, N. J. Hinge. No. 1,159,378; Nov. 9; Gaz. vol. 220; p. 369.
- Heald, James N., and A. M. Drake, assignors to Heald Machine Company, Worcester, Mass. Surface-grinding machine. No. 1,138,289; May 4; Gaz. vol. 214; p. 198.
- Heald Machine Company. (See Griffith, Winfred S., assignor.)
- Heald Machine Company. (See Heald and Drake, assignors.)
- Heald, Margaret L. (See Roby, Edward B., assignor.)
- Healey & Company. (See Douglas, William H., assignor.)
- Healy, Joseph B., and H. E. McKinley, Brooklyn, N. Y. Automobile indicator and signal. No. 1,164,514; Dec. 14; Gaz. vol. 221; p. 668.
- Healy, Clarence, East Orange, N. J. Storage-bin. No. 1,165,971; Dec. 28; Gaz. vol. 221; p. 1255.
- Healy, James T., trustee. (See Campbell, Leon J., assignor.)
- Healy, John S., assignor to G. L. Willson, New York, N. Y. Printer's blanket. No. 1,147,942; July 27; Gaz. vol. 216; p. 1106.
- Healy, Michael J., assignor of one-half to C. Dal Pino, Chicago, Ill. Rivet-head trimmer. No. 1,160,889; Nov. 16; Gaz. vol. 220; p. 958.
- Healy, Peter, county Sligo, Ireland. Device for sealing or closing letters and like packages. No. 1,155,567; Oct. 5; Gaz. vol. 219; p. 84.
- Healy, William J., National, Md. Rail-joint. No. 1,146,496; July 13; Gaz. vol. 216; p. 555.
- Healy, William P., Chicago, Ill., assignor, by mesne assignments, to Wirebonds Patents Company, Kittery, Me. Adjustable box-blank machine. No. 1,159,379; Nov. 9; Gaz. vol. 220; p. 369.
- Heaney, William A. (See Mitchell, Clyde B., assignor.)
- Heany, John A., Washington, D. C. Self-starting internal-combustion engine. No. 1,141,632; June 1; Gaz. vol. 215; p. 193.
- Heany, John A., Washington, D. C. Self-starting internal-combustion engine. No. 1,141,633; June 1; Gaz. vol. 215; p. 194.
- Heany, John A., Washington, D. C. Self-starting internal-combustion engine. No. 1,145,242; July 6; Gaz. vol. 216; p. 94.
- Heany, John A., Washington, D. C. Self-starting internal-combustion engine. No. 1,163,008; Dec. 7; Gaz. vol. 221; p. 96.
- Heany, John A., New York, N. Y. Electric welding apparatus. No. 1,153,384; Sept. 14; Gaz. vol. 218; p. 399.
- Heany, John A., New York, N. Y. Electric insulation. No. 1,155,812; Oct. 5; Gaz. vol. 219; p. 171.
- Heany, John A., New York, N. Y. Electric insulation. No. 1,155,813; Oct. 5; Gaz. vol. 219; p. 171.

Alphabetical list of patentees—Continued.

- Heany, John A., York, Pa., assignor, by mesne assignments, to A. E. L. Leckie, Washington, D. C. Gas-engine starting and generating apparatus. No. 1,124,736; Jan. 12; Gaz. vol. 210; p. 583.
- Heany, John A., York, Pa., assignor, by mesne assignments, to A. E. L. Leckie, Washington, D. C. Automatic ignition and lighting system. No. 1,139,521; May 18; Gaz. vol. 214; p. 706.
- Heap & Sons, William. (See Robison and Kaiser, assignors.)
- Hearl, John, assignor to A. Weiskittel & Son Company, Baltimore, Md. Flushing apparatus for water-closets. No. 1,153,784; Sept. 14; Gaz. vol. 218; p. 540.
- Hearne, Robert J., New York, N. Y. Power-table for factory use. No. 1,163,340; Dec. 7; Gaz. vol. 221; p. 213.
- Heaslet, James G., Detroit, Mich., assignor to The Studebaker Corporation. Clutch device. No. 1,166,205; Dec. 28; Gaz. vol. 221; p. 1341.
- Heaslet, James G., Detroit, Mich., assignor to The Studebaker Corporation. Rod connection. No. 1,166,206; Dec. 28; Gaz. vol. 221; p. 1341.
- Heaslip, Samuel F. (See Sewall, Robert H. F., assignor.)
- Heat Saver Company. (See Blaske, William C., assignor.)
- Heater, Jacob D., assignor to The Barney and Smith Car Company, Dayton, Ohio. Chair. No. 1,150,189; Aug. 17; Gaz. vol. 217; p. 775.
- Heath, Alfred C. (See Heath, George W. and A. C.)
- Heath, Cary S., Montrose, Colo. Crib attachment for go-carts. No. 1,138,472; May 4; Gaz. vol. 214; p. 264.
- Heath, Charles R., Cashmere, Wash. Locomotive-injector attachment. No. 1,145,683; July 6; Gaz. vol. 216; p. 247.
- Heath, Charles W., Cincinnati, Ohio. Gas-analysis apparatus. No. 1,124,432; Jan. 12; Gaz. vol. 210; p. 473.
- Heath, Forrest A., Jersey City, N. J. Mixing device for fluids. No. 1,165,875; Dec. 28; Gaz. vol. 221; p. 1222.
- Heath, Forrest A., assignor, by mesne assignments, to New Jersey Carburetor Company, Jersey City, N. J. Rotatable-fan member. No. 1,135,451; Apr. 13; Gaz. vol. 213; p. 528.
- Heath, Forrest A., assignor, by mesne assignments, to New Jersey Carburetor Company, Jersey City, N. J. Mixing device. No. 1,153,914; Sept. 21; Gaz. vol. 218; p. 621.
- Heath, Forrest A., Jersey City, N. J., assignor, by mesne assignments, to G. Whysall, Marion, Ohio. Mixing device. No. 1,153,913; Sept. 21; Gaz. vol. 218; p. 620.
- Heath, Forrest A., Jersey City, N. J., assignor, by mesne assignments, to G. Whysall, Marion, Ohio. Mixing device. No. 1,153,915; Sept. 21; Gaz. vol. 218; p. 621.
- Heath, George W., Newark, N. J. Pen-clip. No. 1,145,584; July 6; Gaz. vol. 216; p. 212.
- Heath, George W. and A. C., Newark, N. J. Safety-clip for pens and pencils. No. 1,145,583; July 6; Gaz. vol. 216; p. 211.
- Heath, Henry A., Urbanna, and J. E. Gray, Saluda, Va. Fountain shaving-brush. No. 1,141,392; June 1; Gaz. vol. 215; p. 110.
- Heath, Walter S., San Mateo, Cal. Tire-case. No. 1,153,305; Sept. 14; Gaz. vol. 218; p. 369.
- Heath, William R. (See Crumpton, William J., assignor.)
- Heath, William R. (See Heuser, Frederick O., assignor.)
- Heath, William R. (See Tallmadge, Charles H., assignor.)
- Heathcote, Lewin J., Baltimore, Md. Draftsman's tool. No. 1,155,059; Sept. 28; Gaz. vol. 218; p. 1040.
- Heather, Charles H., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Sole-rounding machine. No. 1,126,209; Jan. 26; Gaz. vol. 210; p. 1178.
- Heatherington, George B., Sidney, Iowa. Horseshoe-re-mover. No. 1,127,760; Feb. 9; Gaz. vol. 211; p. 424.
- Heaton, Herman C., Brynyn, Ill. Steam-generator. No. 1,137,137; Apr. 27; Gaz. vol. 213; p. 1203.
- Heaton, Otis, White Owl, S. D. Internal-combustion engine. No. 1,135,793; Apr. 13; Gaz. vol. 213; p. 648.
- Heavey, William H., Jr., et al. (See Craw, Joseph T., assignor.)
- Heazlewood, Heber G., Launceston, Tasmania, Australia. Book-marker. No. 1,150,678; Aug. 17; Gaz. vol. 217; p. 945.
- Hebard, Arthur F., New York, N. Y., assignor to Remington Arms-Union Metallic Cartridge Company. Target. No. 1,145,585; July 6; Gaz. vol. 216; p. 212.
- Hebbard, Charles B. (See Yager and Hebbard.)
- Hebble, Jacob O., Lancaster, Pa., and F. H. Humphrevill. Atlantic City, N. J.; said Hebble assignor to said Humphrevill. Electric-lamp lock. No. 1,162,355; Nov. 30; Gaz. vol. 220; p. 1565.
- Hebden, John C., Providence, R. I., assignor to W. R. Peabody Cambridge, Mass. Vat-dyeing. No. 1,148,966; Aug. 3; Gaz. vol. 217; p. 171.
- Hebendahl, John P., Elizabeth, N. J. Hook. No. 1,137,616; Apr. 27; Gaz. vol. 213; p. 1373.
- Heberlein, Georges, Wattwil, Switzerland. Producing woollike effects on cotton fabrics. No. 1,141,872; June 1; Gaz. vol. 215; p. 273.
- Heberlein, Georges, Wattwil, Switzerland. Production of pattern effects upon cotton fabric. No. 1,144,655; June 29; Gaz. vol. 215; p. 1374.
- Heberling, Cassius R., and A. H. Low, assignors to The Colorado Radium Products Company, Denver, Colo. Portable generator for producing radio-activity in varying substances. No. 1,149,829; Aug. 10; Gaz. vol. 217; p. 584.
- Heberling, John, Rochester, N. Y. Attachment for lamp-burners. No. 1,139,864; May 18; Gaz. vol. 214; p. 828.
- Heberling, John, Rochester, N. Y. Dumping-wagon. No. 1,142,325; June 8; Gaz. vol. 215; p. 471.
- Heberling, John, Rochester, N. Y. Measuring instrument. No. 1,156,998; Oct. 19; Gaz. vol. 219; p. 638.
- Heberling, Wilbur E., Youngstown, assignor of one-fourth to G. Goodman, Struthers, Ohio. Pressure-indicating mechanism for pneumatic-tired vehicles. No. 1,165,876; Dec. 28; Gaz. vol. 221; p. 1223.
- Hebern, Edward H., Oakland, Cal. Cryptographic-code cards. No. 1,136,875; Apr. 20; Gaz. vol. 213; p. 1072.
- Hebern, Edward H., Oakland, Cal. Cipher-code device. No. 1,136,876; Apr. 20; Gaz. vol. 213; p. 1072.
- Hebern, Edward H., Oakland, Cal. Cipher-writing machine. No. 1,141,055; May 25; Gaz. vol. 214; p. 1279.
- Hebern, Edward H., assignor, by mesne assignments, to H. & H. Patent-Developing Company, Oakland, Cal. Check-identifying machine. No. 1,126,463; Jan. 26; Gaz. vol. 210; p. 1268.
- Hebern, Edward H., assignor, by mesne assignments, to H. & H. Patent-Developing Company, Oakland, Cal. Machine for interpreting code-messages. No. 1,135,452; Apr. 13; Gaz. vol. 213; p. 528.
- Hebern, Edward H., and F. Hoffman, Oakland, Cal. Cryptographic attachment for type-writing machines. No. 1,123,738; Jan. 5; Gaz. vol. 210; p. 184.
- Hébert, Joseph, and J. S. H. Gagnon, Viauville, Montreal, Quebec, Canada; said Gagnon assignor to said Hébert. Clothes-drier. No. 1,134,550; Apr. 6; Gaz. vol. 213; p. 276.
- Hébert, Napoleon H., Franklin, N. H. Piston-ring. No. 1,144,474; June 29; Gaz. vol. 215; p. 1313.
- Hébert, Paul A. (See Risacher and Hébert.)
- Hébert, Chald, Manchester, N. H. Feeler mechanism for automatic filling-replenishing looms. No. 1,151,010; Aug. 24; Gaz. vol. 217; p. 1116.
- Hechenbleikner, Ingeniun, Great Falls, S. C., assignor to Southern Electro-Chemical Company, New York, N. Y. Cooling and reducing nitrate of lime. No. 1,143,625; June 22; Gaz. vol. 215; p. 990.
- Hechler, Benjamin, Springfield, Mass. Convertible street-car. No. 1,146,873; July 20; Gaz. vol. 216; p. 704.
- Hecht, Heinrich. (See Hahnemann and Hecht.)
- Hecht, Heinrich, Kiel, Germany. Siren. No. 1,143,389; June 15; Gaz. vol. 215; p. 886.
- Hecht, Heinrich, Kiel, Germany. Water-siren. No. 1,143,703; June 22; Gaz. vol. 215; p. 1016.
- Hecht, Heinrich, Kiel, Germany. Water-siren. No. 1,162,719; Nov. 30; Gaz. vol. 220; p. 1686.
- Heck, Augustus. (See Haas and Heck.)
- Heck, Charles M., Raleigh, N. C. Comparing sounds. No. 1,159,023; Nov. 2; Gaz. vol. 220; p. 212.
- Heck, Jerry, and C. J. Vitek, Milwaukee, Wis. Reversing mechanism for boat-propellers. No. 1,161,935; Nov. 30; Gaz. vol. 220; p. 1419.
- Heck, John B. (See Streeter and Heck.)
- Heckart, Lilly M., Fort Des Moines, Iowa. Seed-planter. No. 1,159,584; Nov. 9; Gaz. vol. 220; p. 442.
- Heckel, Otto A., assignor of one-half to E. Ameling, St. Louis, Mo. Apparatus for controlling the placement of a covering over base-ball diamonds. No. 1,155,309; Sept. 28; Gaz. vol. 218; p. 1124.
- Heckert, George E., Port Royal, Pa. Molding apparatus. No. 1,139,971; May 18; Gaz. vol. 214; p. 865.
- Heckman, August. (See Dupree, Ritter, and Heckman.)
- Heckman, Harry W. (See Goodnow, Harry W., assignor.)
- Heckman, Joseph C., Avalon borough, Pa. Process and substance for purifying gas. No. 1,154,858; Sept. 28; Gaz. vol. 218; p. 971.
- Heckman, Joseph C., Avalon borough, Pa. Gas-purifying material. No. 1,154,859; Sept. 28; Gaz. vol. 218; p. 971.
- Heckmann, George T., St. Louis, Mo. Antiskid device. No. 1,160,890; Nov. 16; Gaz. vol. 220; p. 959.
- Heckmann, Harry G., Canton, assignor to The W. H. Hoover Company, New Berlin, Ohio. Thill-tug. No. 1,145,481; July 6; Gaz. vol. 216; p. 178.
- Hecla Iron Works. (See Smith and Dipple, assignors.)
- Hedbohm, Carl G., and S. W. S. Lindby, Visby, Sweden. Gathering-cover for holding papers. No. 1,129,673; Feb. 23; Gaz. vol. 211; p. 1176.
- Hedden, Elmdorf J. (See Paxson and Hedden.)
- Hedden, Morris W., Oregon City, Oreg. Treating waste sulfite liquor. No. 1,130,817; Mar. 9; Gaz. vol. 212; p. 374.
- Hedden Sales Company. (See Schwarz, Alfred, assignor.)
- Heddon, Charles, Dowagiac, Mich. Fish-hook. No. 1,133,724; Mar. 30; Gaz. vol. 212; p. 1533.
- Hedgcock, William C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Adjustable brake-head. No. 1,140,035; May 18; Gaz. vol. 214; p. 849.
- Hedgcock, William C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Lyeing and safety device for brakes. No. 1,143,704; June 22; Gaz. vol. 215; p. 1017.

Alphabetical list of patentees—Continued.

- Hedgecock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake-release. No. 1,143,705; June 22; Gaz. vol. 215; p. 1017.
- Hedgecock, William C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Spring-release for brakes. No. 1,143,706; June 22; Gaz. vol. 215; p. 1017.
- Hedgecock, William C., assignor to American Steel Foundries, Chicago, Ill. Truck-pedestal. No. 1,143,707; June 22; Gaz. vol. 215; p. 1017.
- Hedgecock, William C., assignor to American Steel Foundries, Chicago, Ill. Clasp-brake. No. 1,146,874; July 20; Gaz. vol. 216; p. 704.
- Hedgecock, William C., assignor to American Steel Foundries, Chicago, Ill. Car-truck pedestal. No. 1,157,867; Oct. 26; Gaz. vol. 219; p. 1006.
- Hedgecock, William C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Brake. No. 1,165,669; Dec. 28; Gaz. vol. 221; p. 1151.
- Hedgecock, Florence A. (See Hedgecock, William C. H. P. and F. A.)
- Hedgecock, William C. H. P. and F. A., Brighton, assignors to Phillips' Patent Limited, London, England. Shoe. No. 1,138,473; May 4; Gaz. vol. 214; p. 265.
- Hedger, Ward E., Waupun, Wis. Air-valve. No. 1,126,464; Jan. 26; Gaz. vol. 210; p. 1268.
- Hedges, Fred F., Utica, N. Y. Peanut-blancher. No. 1,147,397; July 20; Gaz. vol. 216; p. 889.
- Hedges, Jabez, and W. Hammack, Lancaster, Ohio. Auxiliary air-intake valve. No. 1,142,424; June 8; Gaz. vol. 215; p. 509.
- Hedges, James A., Chicago, Ill. Reel. No. 1,127,243; Feb. 2; Gaz. vol. 211; p. 204.
- Hedges, John C., Des Moines, Iowa. Loose-leaf binder. No. 1,138,104; May 4; Gaz. vol. 214; p. 135.
- Hedges, Roy B., La Junta, Colo. Agricultural implement. No. 1,143,907; June 22; Gaz. vol. 215; p. 1086.
- Hedges, Thomas, Palmers Green, England. Motor-vehicle. No. 1,135,938; Apr. 13; Gaz. vol. 213; p. 697.
- Hedinger, Fred H., assignor to J. Rosenfeld, New York, N. Y. Variable-speed drill. No. 1,160,891; Nov. 16; Gaz. vol. 220; p. 959.
- Hedley, Frank. (See Doyle and Hedley.)
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Car-control system. No. 1,149,758; Aug. 10; Gaz. vol. 217; p. 558.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Safety platform mechanism. No. 1,149,759; Aug. 10; Gaz. vol. 217; p. 558.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Automatic safety platform mechanism. No. 1,149,760; Aug. 10; Gaz. vol. 217; p. 559.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Automatic control mechanism for safety-platforms. No. 1,149,761; Aug. 10; Gaz. vol. 217; p. 559.
- Hedman, Carl M., et al. (See Engstrom, Ivan, assignor.)
- Hedman, Herbert R., et al. (See Engstrom, Ivan, assignor.)
- Hedman, Carl M., Chicago, Ill., assignor to L. S. Smith & Son Company, Pittsburgh, Pa. Dental stool. No. 1,164,715; Dec. 21; Gaz. vol. 221; p. 777.
- Hedrick, Grover C. (See Lilly, William T. and A. J., assignors.)
- Hedrick, Ira G., and V. Cochrane, Kansas City, Mo. Chain. No. 1,130,970; Mar. 9; Gaz. vol. 212; p. 426.
- Hedrick, Jesse D., Wayne township, Huntington county, Ind. Railway mail-handling apparatus. No. 1,126,210; Jan. 26; Gaz. vol. 210; p. 1178.
- Heedwell, Gotthard, and W. F. McNew, Boone, Iowa. Obstetrical and holding tool. No. 1,123,286; Jan. 5; Gaz. vol. 210; p. 29.
- Heeley, George, assignor to Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, Paris, France. Motion-transmission gear. No. 1,148,227; July 27; Gaz. vol. 216; p. 1206.
- Heermans, Thaddeus W., Chicago, Ill. Dish-washer. No. 1,149,195; Aug. 10; Gaz. vol. 217; p. 354.
- Heerwagen Company. (See Schwertner, Joseph, assignor.)
- Heffelfinger, George W. (See Rothenberger, Daniel M., assignor.)
- Heffley, John W., assignor to W. H. Heffley, Duncannon, Pa. Package-tie. No. 1,137,485; Apr. 27; Gaz. vol. 213; p. 1329.
- Heffley, William H. (See Heffley, John W., assignor.)
- Heffner, John L., Peoria, Ill. Mattress. (Reissue.) No. 13,982; Sept. 21; Gaz. vol. 218; p. 855.
- Heffner, Martin M. (See Strange and Heffner.)
- Hefflin, Bert M., Tremont, Nehr. Truss. No. 1,123,873; Jan. 5; Gaz. vol. 210; p. 230.
- Hefflin, William S., et al. (See Keltner, George R., assignor.)
- Hefner, William T. (See Squyers and Hefner.)
- Hegardt, Axel E., Philadelphia, Pa. Flexible rule. No. 1,147,722; July 27; Gaz. vol. 216; p. 1028.
- Hegeler, Hermann, Oldenburg, assignor to Fabrik für Pianoeinbaupparate "Stems," Gesellschaft mit beschränkter Haftung, Dresden, Germany. Automatic violin. No. 1,147,504; July 20; Gaz. vol. 216; p. 925.
- Hegenschmidt, Wilhelm, Chicago, Ill. Pedestal. No. 1,151,011; Aug. 24; Gaz. vol. 217; p. 1116.
- Heggem, Alfred G., assignor to The Oil Well Improvements Company, Tulsa, Okla. Casing-head. No. 1,165,253; Dec. 21; Gaz. vol. 221; p. 967.
- Heggem, Charles O., assignor to The Russell and Company, Massillon, Ohio. Spring-wheel. No. 1,139,282; May 11; Gaz. vol. 214; p. 586.
- Heggie, David, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Apparatus for coating pipes. No. 1,147,723; July 27; Gaz. vol. 216; p. 1028.
- Heggie, David, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Universal chuck. No. 1,152,175; Aug. 31; Gaz. vol. 217; p. 1561.
- Heggie, David, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Sawing-machine. No. 1,155,060; Sept. 28; Gaz. vol. 218; p. 1041.
- Heggland, Evend T., Mina, Nev. Pitching-machine. No. 1,153,916; Sept. 21; Gaz. vol. 218; p. 621.
- Heghinian, Garabed G., New York, N. Y. Molding-press. No. 1,128,309; Feb. 16; Gaz. vol. 211; p. 667.
- Hegstedt, Peter E., Jamestown, N. Y. Metal door. No. 1,138,105; May 4; Gaz. vol. 214; p. 135.
- Hegstedt, Peter E., Jamestown, N. Y. Metal door. No. 1,153,306; Sept. 14; Gaz. vol. 218; p. 369.
- Hehle, Boniface, Kansas City, Mo. Brewing. No. 1,154,989; Sept. 28; Gaz. vol. 218; p. 1017.
- Heiberg, Harrison H. D., Simsbury, Conn. Safety cut-out for electric railways. No. 1,165,254; Dec. 21; Gaz. vol. 221; p. 967.
- Heiberger, Franz, Jr., Washington, D. C., and M. C. Stuart, Richmond, Va. Search or head light shield. No. 1,145,414; July 6; Gaz. vol. 216; p. 153.
- Heiberger, Franz J., Jr., Boston, Mass., and M. C. Stuart, Richmond, Va. Search or head light. No. 1,149,441; Aug. 10; Gaz. vol. 217; p. 444.
- Heiberger, Milton U. (See Lake and Heiberger.)
- Heichert, Herman S., Pittsburgh, and H. S. Drury, Ford City, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Leer. No. 1,126,465; Jan. 26; Gaz. vol. 210; p. 1268.
- Heid, John W., Jefferson, Wis. Feed-water tank. No. 1,162,356; Nov. 30; Gaz. vol. 220; p. 1566.
- Heidbreder, George E., Quincy, Ill. Combined coal and gas range. No. 1,156,999; Oct. 19; Gaz. vol. 219; p. 639.
- Heide, Henry, New York, N. Y. Riser-pipe hanger. No. 1,152,089; Aug. 31; Gaz. vol. 217; p. 1533.
- Heidel, Charles H. (See Sillocks and Heidel.)
- Heidelberg, Gustav, New York, N. Y. Spoon and fork construction. No. 1,133,026; Mar. 23; Gaz. vol. 212; p. 1248.
- Heidloff, Werner B., assignor of one-half to A. Andrews, Plainfield, N. J. Attachment for collapsible tubes. No. 1,143,390; June 15; Gaz. vol. 215; p. 886.
- Heidemann, Christian, St. Louis, Mo. Vehicle-signal. No. 1,163,918; Dec. 14; Gaz. vol. 221; p. 459.
- Heidenreich, Isidor, Chicago, Ill. Toy top. No. 1,139,119; May 11; Gaz. vol. 214; p. 531.
- Heidenrich, Carl. (See Blank, Heidenrich, and Janssen.)
- Heider, C. H. (See Connor, William W., assignor.)
- Heider, Henry J., assignor to Heider Mfg. Co., Carroll, Iowa. Transmission mechanism. No. 1,154,767; Sept. 28; Gaz. vol. 218; p. 941.
- Heider Mfg. Co. (See Heider, Henry J., assignor.)
- Heidi, John, St. Louis, Mo. Automobile-fender. No. 1,146,621; July 13; Gaz. vol. 216; p. 598.
- Heidner, Fritz, Freiburg, Germany. Type-writing machine. No. 1,138,474; May 4; Gaz. vol. 214; p. 265.
- Heilborn, Ernst, Charlottenburg, Germany, assignor to General Electric Company. System of electric metering. No. 1,142,425; June 8; Gaz. vol. 215; p. 509.
- Heilemann, Walter, and H. Kanonenberg, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Wheeled gun-carriage. No. 1,138,949; May 11; Gaz. vol. 214; p. 469.
- Heilemann, Walter, and H. Kanonenberg, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Foundation for movable guns. No. 1,146,070; July 13; Gaz. vol. 216; p. 403.
- Heilig, Cyrus H., York, Pa. Oiling device for dough-divider machines. No. 1,139,181; May 11; Gaz. vol. 214; p. 553.
- Heiman, Henry N., St. Louis, Mo. Cushion-tires. No. 1,136,009; Apr. 20; Gaz. vol. 213; p. 766.
- Heilmann, Jean J., Paris, France. Arrangement for controlling the steering-wheels of automobiles. No. 1,144,706; June 29; Gaz. vol. 215; p. 1392.
- Heim, Adam, Connerville, Ind. Hose-reel. No. 1,156,402; Oct. 12; Gaz. vol. 219; p. 400.
- Heim, Friedrich. (See Stock and Heim.)
- Heiman, John J. (See Lock and Heiman.)
- Heimann, Leon, assignor, by mesne assignments, to Live Leather Belt Co., New York, N. Y. Making leather material. No. 1,133,957; Mar. 30; Gaz. vol. 212; p. 1612.
- Heimbach, Alton B., Duluth, Minn. Wrench. No. 1,142,426; June 8; Gaz. vol. 215; p. 509.
- Heimbauer, Charles P., Beardstown, Ill. Heat-regulator for incubators. No. 1,130,899; Mar. 9; Gaz. vol. 212; p. 403.
- Heimbuecher, Amanda C., St. Louis, Mo. Receptacle. No. 1,138,290; May 4; Gaz. vol. 214; p. 199.
- Heimlich, John. (See Wolfe and Heimlich.)

Alphabetical list of patentees—Continued.

- Hein, Hans H., Randers, Denmark, assignor to Deutsche Automobil-Konstruktions-Ges. m. b. H., Charlottenburg, Germany, and I./s. H. Hein & Sonners, Randers, Denmark. Operating combustion-engines. No. 1,132,581; Mar. 23; Gaz. vol. 212; p. 1082.
- Hein, Paul, Essen-Rüttenscheid, assignor to Diamant-Brikett-Werke G. m. b. H., Berlin, Germany. Apparatus for coking coal briquets. No. 1,155,486; Oct. 5; Gaz. vol. 219; p. 57.
- Hein, Paul, Essen-Rüttenscheid, assignor to Diamant-Brikettwerke G. m. b. H., Berlin, Germany. Briquet-cooling apparatus. No. 1,165,408; Dec. 28; Gaz. vol. 221; p. 1059.
- Heinbaugh, Frank J., Bellefourche, S. D. Ewe and lamb shield and protector. No. 1,160,167; Nov. 16; Gaz. vol. 220; p. 704.
- Heine, Arnold B. (See Weissmann, Gustave, assignor.)
- Heine, Henry A., Washington, D. C. Closure for bottles, jars, and the like. No. 1,145,243; July 6; Gaz. vol. 216; p. 94.
- Heine, Karl. (See Becker and Heine.)
- Heinck, Frank H., Philadelphia, Pa. Score-card. No. 1,132,261; Mar. 16; Gaz. vol. 212; p. 918.
- Heineman, Arthur S., Los Angeles, Cal. Electric iron. No. 1,150,431; Aug. 17; Gaz. vol. 217; p. 858.
- Heineman, Joseph. (See Doubrava and Heineman.)
- Heinemann, Arthur, West Kensington, London, England. Producing propylene from acetylene and methane. No. 1,134,677; Apr. 6; Gaz. vol. 213; p. 217.
- Heinemann, Arthur, West Kensington, London, England. Production of isoprene. No. 1,159,380; Nov. 9; Gaz. vol. 220; p. 369.
- Heinemann, Arthur, South Kensington, London, England. Production of caoutchouc from isoprene. No. 1,146,253; July 13; Gaz. vol. 216; p. 468.
- Heinemann, August A. K., assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Machine-gun. No. 1,123,530; Jan. 5; Gaz. vol. 210; p. 114.
- Heinemann, August A. K., assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Machine-gun. No. 1,128,310; Feb. 16; Gaz. vol. 211; p. 668.
- Heinemann, August A. K., assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Machine-gun. No. 1,150,364; Aug. 17; Gaz. vol. 217; p. 835.
- Heinemann, August A. K., assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Machine-gun. No. 1,155,061; Sept. 28; Gaz. vol. 218; p. 1041.
- Heinen, Frank C., Chicago, Ill. Snow-plow. No. 1,144,763; June 29; Gaz. vol. 215; p. 1412.
- Hernes, William H., New York, N. Y. Furniture-bumper. No. 1,159,220; Nov. 2; Gaz. vol. 220; p. 282.
- Heinitz, Woldemar R., Chemnitz, Germany, assignor, by mesne assignments, to The National Cash Register Company. Cash-register. No. 1,134,195; Apr. 6; Gaz. vol. 213; p. 41.
- Heinrich, Gustav P., Brooklyn, assignor to Interstate Electric Novelty Company, New York, N. Y. Tubular electric pocket-lamp. No. 1,141,634; June 1; Gaz. vol. 215; p. 194.
- Heinrich, Gustav P. and J. E. Dunn, Brooklyn, assignors to Interstate Electric Novelty Company, New York, N. Y. Electric battery. No. 1,161,668; Nov. 23; Gaz. vol. 220; p. 1279.
- Heinrich, Hugo, Zwickau, Germany. Rotary engine. No. 1,131,375; Mar. 9; Gaz. vol. 212; p. 565.
- Heinrich, Jacob, Nuremberg, assignor to Metallpapier-Bronzefarben-Blattmetallwerke, Aktiengesellschaft, Munich, Germany. Apparatus for separating sheets from a pile or stack. No. 1,143,708; June 22; Gaz. vol. 215; p. 1018.
- Heinrich, John G., Jr., New Rochelle, N. Y. Fishing-pole. No. 1,157,106; Oct. 19; Gaz. vol. 219; p. 677.
- Heinrich, Wilhelm, and F. Janssen, Geestmünde, Germany. Life-buoy. No. 1,165,503; Dec. 28; Gaz. vol. 221; p. 1091.
- Heins, Otto, New York, N. Y. Starting ignition system for internal-combustion engines. No. 1,150,032; Aug. 17; Gaz. vol. 217; p. 717.
- Heins, Otto, assignor to Bosch Magneto Company, New York, N. Y. Magneto-electric machine. No. 1,165,596; Dec. 28; Gaz. vol. 221; p. 1124.
- Heins, Otto, Edgewater, N. J., and C. M. Wild, Springfield, Mass., assignors to Bosch Magneto Company, New York, N. Y. Electrical ignition system for internal-combustion engines. No. 1,130,729; Mar. 9; Gaz. vol. 212; p. 343.
- Heins, Otto H. H., Edgewater-on-Hudson, N. J. Magneto-generator. No. 1,140,155; May 18; Gaz. vol. 214; p. 931.
- Heinsen, Christian M., Fresno, Cal. Oil-burner. No. 1,160,404; Nov. 16; Gaz. vol. 220; p. 785.
- Heinsohn, Richard, Mount Vernon, N. Y. Window-screen. No. 1,150,365; Aug. 17; Gaz. vol. 217; p. 836.
- Heintzelman, Taylor W., Sacramento, and J. G. Camp, Oakland, Cal. Oil-burning furnace. No. 1,128,444; Feb. 16; Gaz. vol. 211; p. 712.
- Heinz, Nicholas L., La Salle, Ill. Device for removing residue from retorts. No. 1,160,077; Nov. 9; Gaz. vol. 220; p. 618.
- Heinz, Paul, and W. A. Goebel, Janesville, Wis. King-bolt connection for vehicles. No. 1,134,267; Apr. 6; Gaz. vol. 213; p. 68.
- Heinze, Gustav A., assignor of one-eighth to F. L. Bernecker and one-eighth to H. Rutzke, Redland, Fla. Steering mechanism for ships. No. 1,136,332; Apr. 20; Gaz. vol. 213; p. 878.
- Heinze, John O., Detroit, Mich. Battery-charging system. No. 1,150,116; Aug. 17; Gaz. vol. 217; p. 747.
- Heinze, John O., Jr., Detroit, Mich. Carburetor. No. 1,150,115; Aug. 17; Gaz. vol. 217; p. 747.
- Heinze, John O., Jr., Lowell, Mass. Dynamo-electric generator. No. 1,153,076; Sept. 7; Gaz. vol. 218; p. 251.
- Heinze, John O., Jr., assignor to General Motors Company, Detroit, Mich. Rotary valve for explosive-engines. No. 1,126,998; Feb. 2; Gaz. vol. 211; p. 117.
- Heinze, John O., Jr., assignor to General Motors Company, Detroit, Mich. Treating metal structures to prevent subsequent change in form. No. 1,132,262; Mar. 16; Gaz. vol. 212; p. 919.
- Heinze, John O., Jr., assignor to General Motors Company, Detroit, Mich. Rotary pump. No. 1,132,263; Mar. 16; Gaz. vol. 212; p. 919.
- Heinze, Max A., Detroit, Mich. Collapsible toy ship. No. 1,162,481; Nov. 30; Gaz. vol. 220; p. 1608.
- Heinzelman, Chester A., Belleville, Ill. Roller-bearing cage. No. 1,125,316; Jan. 19; Gaz. vol. 210; p. 824.
- Heinzelman, Chester A., Belleville, Ill. Roller-bearing. No. 1,125,527; Jan. 19; Gaz. vol. 210; p. 899.
- Heise, Fred H., Manson, Iowa. Stay-roller for sliding doors. No. 1,123,287; Jan. 5; Gaz. vol. 210; p. 29.
- Heiser, Joseph E., Williamsport, Pa. Pipe and cable hanger. No. 1,144,593; June 20; Gaz. vol. 215; p. 1352.
- Helsey & Company, A. H. (See Sanford, Andrew J., assignor.)
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. System for the transmission of intelligence. No. 1,137,315; Apr. 27; Gaz. vol. 213; p. 1269.
- Heisler, Charles L., Schenectady, N. Y. Locomotive trailing truck. No. 1,126,761; Feb. 2; Gaz. vol. 211; p. 34.
- Heisler, Charles L., Schenectady, N. Y. Reverse-lever-latching mechanism. No. 1,140,743; May 25; Gaz. vol. 214; p. 1169.
- Heisler, Charles L., Schenectady, N. Y. Furnace-stoker for feeding coal-dust or other comminuted fuels. No. 1,140,817; May 25; Gaz. vol. 214; p. 1195.
- Heisler, Charles L., Schenectady, N. Y. Motor-vehicle spring-mounting. No. 1,155,062; Sept. 28; Gaz. vol. 218; p. 1042.
- Heisler, Francis J., Scranton, Pa. Umbrella. No. 1,145,195; July 6; Gaz. vol. 216; p. 77.
- Heistand, Horace L. (See Baldwin, Ferdinand, assignor.)
- Heisz, George A., assignor of one-third to C. Cline, Selden, Kans. Corn-binder attachment. No. 1,129,674; Feb. 23; Gaz. vol. 211; p. 1177.
- Heitbrink, John, Munster, Ohio. Colter attachment for gang-plows. No. 1,136,525; Apr. 20; Gaz. vol. 213; p. 948.
- Heitger Carburetor Company. (See Heitger, Frank H., assignor.)
- Heitger, Frank H., assignor to Heitger Carburetor Company, Indianapolis, Ind. Carburetor. No. 1,132,934; Mar. 23; Gaz. vol. 212; p. 1212.
- Heitger, Frank H., assignor to Heitger Carburetor Company, Indianapolis, Ind. Carburetor. No. 1,134,531; Apr. 6; Gaz. vol. 213; p. 103.
- Heitger, Frank H., assignor to Heitger Carburetor Company, Indianapolis, Ind. Carburetor. No. 1,134,532; Apr. 6; Gaz. vol. 213; p. 164.
- Heitkam, Clemens P., Indianapolis, Ind. Support for picture-frames. No. 1,124,898; Jan. 12; Gaz. vol. 210; p. 640.
- Heitmann, Ernest, New York, N. Y. Safety-envelop. No. 1,157,983; Oct. 26; Gaz. vol. 219; p. 1047.
- Heitmüller, George H., Washington, D. C. School-desk. No. 1,131,376; Mar. 9; Gaz. vol. 212; p. 566.
- Heitzmann, Louis, Steinway, N. Y. Upright-piano action. No. 1,124,134; Jan. 5; Gaz. vol. 210; p. 318.
- Heizer, Alexander L., Anderson, Ind., assignor to Vesta Accumulator Company. Magneto-electrical generator. No. 1,135,898; Apr. 13; Gaz. vol. 213; p. 685.
- Helander, Axel H., W. Eaton, and J. Z. Collier, assignors to The William Tod Company, Youngstown, Ohio. Union-housing. No. 1,141,544; June 1; Gaz. vol. 215; p. 163.
- Helander, Ernst G., Youngstown, Ohio. Condenser. No. 1,144,197; June 22; Gaz. vol. 215; p. 1189.
- Helander, Ernst G., Youngstown, Ohio. Condenser. No. 1,144,198; June 22; Gaz. vol. 215; p. 1190.
- Helbronner, Andre. (See Henri, Helbronner, and Recklinghausen.)
- Helbrouner, André, and M. von Recklinghausen, Paris, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Sterilization of liquids. No. 1,141,056; May 25; Gaz. vol. 214; p. 1279.
- Helbronner, Victor H. A., and M. von Recklinghausen, Paris, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Artificially maturing or aging wines, spirits, or other potable liquors. No. 1,130,400; Mar. 2; Gaz. vol. 212; p. 194.
- Helcher, William C., Galion, Ohio. Combined jar-closure and cap-extractor. No. 1,142,427; June 8; Gaz. vol. 215; p. 509.

Alphabetical list of patentees—Continued.

- Hele-Shaw, Henry S., London, England. Variable-stroke motor or pump. No. 1,152,729; Sept. 7; Gaz. vol. 218; p. 128.
- Hele-Shaw, Henry S., and F. Leigh-Martineau, London, England. Hydraulic apparatus. No. 1,137,208; Apr. 27; Gaz. vol. 213; p. 1229.
- Helfer, Armin G., New York, N. Y. Automatic speed control for vehicles. No. 1,138,560; May 4; Gaz. vol. 214; p. 292.
- Helfer, Armin G., New York, N. Y. Vehicle-brake. No. 1,138,561; May 4; Gaz. vol. 214; p. 293.
- Helfinger, Charles F., Hobart, Wash. Stove-door knob. No. 1,161,669; Nov. 23; Gaz. vol. 220; p. 1279.
- Helfrich, Gustav P., New York, N. Y. Torpedo. No. 1,133,282; Mar. 30; Gaz. vol. 212; p. 1373.
- Helfrich, Gustav P., New York, N. Y. Mower. No. 1,134,851; Apr. 6; Gaz. vol. 213; p. 276.
- Hellcal Shock Absorber Company. (See Miles and Fullenlove, assignors.)
- Hellin, Vernie K., Minneapolis, Minn. Combined micrometer and scale. No. 1,153,785; Sept. 14; Gaz. vol. 218; p. 541.
- Helin, Wilber E., State Center, Iowa. Attachment for disks. No. 1,155,657; Oct. 5; Gaz. vol. 219; p. 115.
- Helson Electric Company. (See Wilbur, Samuel P., assignor.)
- Hellos Manufacturing Company. (See Spencer, Thomas, assignor.)
- Hella, Anton, Chicago, Ill. Retaining means. No. 1,140,036; May 18; Gaz. vol. 214; p. 889.
- Hella, Anton, Chicago, Ill. Nut-lock. No. 1,140,037; May 18; Gaz. vol. 214; p. 890.
- Heller, August H. R., Pittsburgh, Pa. Shoe-shining machine. No. 1,138,868; May 11; Gaz. vol. 214; p. 442.
- Heller, Benjamin, Chicago, Ill. Can-closure. No. 1,156,777; Oct. 12; Gaz. vol. 219; p. 531.
- Heller, Charles S., Harborton, assignor to The Moore Architectural and Engineering Company, Akron, Ohio. Apparatus for use in reclaiming vulcanized-rubber waste. (Reissue.) No. 1,402,7; Dec. 7; Gaz. vol. 221; p. 315.
- Heller, Eugene H., assignor to The Hill Pump Valve Company, Chicago, Ill. Gage. No. 1,159,764; Nov. 9; Gaz. vol. 220; p. 508.
- Heller, Jesse B. (See Byrnes and Heller.)
- Heller, Joseph F., Woodhaven, N. Y. Socket-joint. No. 1,154,309; Sept. 21; Gaz. vol. 218; p. 756.
- Heller, Leo, Toplitz, Austria-Hungary. Process and means for securing metallic coats on ceramic surfaces. No. 1,126,211; Jan. 26; Gaz. vol. 210; p. 1179.
- Heller, Martin L. (See Clymer and Heller.)
- Heller, William C., Montpelier, Ohio. Display-cabinet. No. 1,129,389; Feb. 23; Gaz. vol. 211; p. 1079.
- Hellfritsch, Albin, Milwaukee, Wis. Infant's combination-carrier. No. 1,139,762; May 18; Gaz. vol. 214; p. 791.
- Hellings, Bertha, Amsterdam, Netherlands. Bathing-cap. No. 1,153,687; Sept. 14; Gaz. vol. 218; p. 506.
- Hellings, Andrew J., assignor to Hill-Independent Mfg. Co., Philadelphia, Pa. Hand-stamp. No. 1,143,540; June 15; Gaz. vol. 215; p. 935.
- Hellmann, Lui F., Indianapolis, Ind. Automatic leveling attachment for surveying instruments, &c. No. 1,144,594; June 29; Gaz. vol. 215; p. 1353.
- Hellmund, Rudolf E., Hinsdale, Ill. assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic circuit-breaker. No. 1,123,288; Jan. 5; Gaz. vol. 210; p. 29.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction-motor. No. 1,158,495; Nov. 2; Gaz. vol. 220; p. 29.
- Hellstrand, Erick A. (See Hellstrand, Grover W. and E. A.)
- Hellstrand, Grover W., Chicago, Ill. Lantern. No. 1,132,090; Mar. 16; Gaz. vol. 212; p. 854.
- Hellstrand, Grover W. and E. A., Chicago, Ill. Lantern. No. 1,132,091; Mar. 16; Gaz. vol. 212; p. 855.
- Hellstrom, Victor A. (See Tuckett and Hellstrom.)
- Heltweg, Henry, Milwaukee, Wis. Paper box. No. 1,123,289; Jan. 5; Gaz. vol. 210; p. 30.
- Hellyar, Harry W., E. H. Cochran, and H. E. Waggoner, assignors to Spanish Mission Tile Company, Los Angeles, Cal. Tile forming machine. No. 1,132,264; Mar. 16; Gaz. vol. 212; p. 919.
- Helm, C. Wells, Chicago, Ill. Baking-oven. No. 1,165,409; Dec. 28; Gaz. vol. 221; p. 1060.
- Helm, Max, Pankow, near Berlin, Germany, assignor to J. R. Leeson, Boston, Mass. Winding-machine. No. 1,134,268; Apr. 6; Gaz. vol. 213; p. 68.
- Helm, Max, Pankow, Germany, assignor to General Electric Company. Electric meter. No. 1,157,937; Oct. 26; Gaz. vol. 219; p. 1031.
- Helmhold, Paul A., and J. Weinbrenner, Alsace, Germany. Driving mechanism for the drawing-off or detaching rollers of combing-machines. No. 1,156,225; Oct. 12; Gaz. vol. 219; p. 337.
- Helme & McIlhenny. (See Brown, William L., assignor.)
- Helme & McIlhenny. (See Torrey, Allen M., assignor.)
- Helmers, Gerhard P., Baltimore, Md. Cuff. No. 1,143,626; June 22; Gaz. vol. 215; p. 900.
- Helmers, Gerhard P., Baltimore, Md. Alarm hand-bag. No. 1,148,773; Aug. 3; Gaz. vol. 217; p. 105.
- Helmholz, Henry. (See Roan and Helmholz.)
- Helmke, Edward C., McFarland, Wis. Hub construction for four-wheel-drive vehicles. No. 1,124,433; Jan. 12; Gaz. vol. 210; p. 474.
- Helmke, Edward C., McFarland, Wis. Stone-gathering machine. No. 1,139,032; May 11; Gaz. vol. 214; p. 501.
- Helmken, George S. (See McMullen, Charles P., assignor.)
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,148,167; July 27; Gaz. vol. 216; p. 1187.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,150,366; Aug. 17; Gaz. vol. 217; p. 836.
- Helson, George A., Peterborough, Ontario, Canada. Wet dust-collector. No. 1,152,414; Sept. 7; Gaz. vol. 218; p. 11.
- Helson, Omer. (See Marq and Helson.)
- Helstrom, John, Morristown, N. J. Culinary cleaner. No. 1,127,244; Feb. 2; Gaz. vol. 211; p. 204.
- Heltzel, John N., Warren, Ohio. Sidewalk and road form. No. 1,141,057; May 25; Gaz. vol. 214; p. 1280.
- Helvern, Albert J., Tulsa, Okla. Device for retaining screens in window-casings. No. 1,164,716; Dec. 21; Gaz. vol. 221; p. 778.
- Helwig, Frederick A. and O. F., Chicago, Ill. Photographic-printing frame. No. 1,148,967; Aug. 3; Gaz. vol. 217; p. 171.
- Helwig, Oscar F. (See Helwig, Frederick A. and O. F.)
- Helwitz, Ellis S., and A. Lobel, New York, N. Y. Shoe-beel. No. 1,134,383; Apr. 6; Gaz. vol. 213; p. 109.
- Hely, James H., deceased, Fresno, Cal.; L. S. Hely, administrator. Device for generating gas for use in internal-combustion engines. No. 1,164,515; Dec. 14; Gaz. vol. 221; p. 668.
- Hely, L. St. John, administrator. (See Hely, James H.)
- Hem, Halvor O., Kansas City, Mo. Weighing-scale. No. 1,130,900; Mar. 9; Gaz. vol. 212; p. 403.
- Hembree, Charles O., Asher, Okla. Plow. No. 1,155,418; Oct. 5; Gaz. vol. 219; p. 33.
- Hemenover, William E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for applying rubber soles. No. 1,160,983; Nov. 16; Gaz. vol. 220; p. 992.
- Hemenway, Edmund P. (See Webber and Hemenway.)
- Hemenway, Frank, Chicago, Ill. Automobile. No. 1,139,763; May 18; Gaz. vol. 214; p. 791.
- Hemenway, George C. (See Hickerson and Hemenway.)
- Hemenway, Ora E. (See Hemenway, William A. and O. E.)
- Hemenway, William A. and O. E., Cottage Grove, Oreg. Fly-catcher. No. 1,154,310; Sept. 21; Gaz. vol. 218; p. 757.
- Heminger, Charles C. (See McNoon, James J., assignor.)
- Hemingray Glass Company. (See Holmes, Minot K., assignor.)
- Hemleb, Martin. (See Diehl and Hemleb.)
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Chain-stitch sewing-machine. No. 1,123,739; Jan. 5; Gaz. vol. 210; p. 185.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Double-chain-stitch sewing-machine. No. 1,140,679; May 25; Gaz. vol. 214; p. 1147.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine loop-taker. No. 1,149,049; Aug. 3; Gaz. vol. 217; p. 200.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine bobbin-winder. No. 1,151,877; Aug. 31; Gaz. vol. 217; p. 1459.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine bobbin-winder. No. 1,160,604; Nov. 16; Gaz. vol. 220; p. 857.
- Hemmens, Henry J. (See Pratt and Zollinger, assignors.)
- Hemmer, Josef, Veitsch, assignor to Veitscher Magnesitwerke Actien-Gesellschaft, Vienna, Austria-Hungary. Furnace-wall. No. 1,123,874; Jan. 5; Gaz. vol. 210; p. 230.
- Hemming, Emile, Passaic, assignor to Hemming Manufacturing Company, Garfield, N. J. Cold molding of phenolic condensation products. No. 1,125,906; Jan. 19; Gaz. vol. 210; p. 1034.
- Hemming, Gustave F., and M. L. Baker, New Haven, Conn. Percolator. No. 1,157,778; Oct. 26; Gaz. vol. 219; p. 974.
- Hemming Manufacturing Company. (See Hemming, Emile, assignor.)
- Hemp, Joseph L., St. Louis, Mo. Device for closing sheet-metal seams. No. 1,156,599; Oct. 12; Gaz. vol. 219; p. 468.
- Hemphill, Henry B., Eldorado, Ill. Heating-stove. No. 1,134,384; Apr. 6; Gaz. vol. 213; p. 109.
- Hemphill Manufacturing Co. (See Bosworth, George P., assignor.)
- Hemphill Manufacturing Co. (See Godin and Bosworth, assignors.)
- Hemphill Manufacturing Company. (See Gunning, Eugene M., assignor.)
- Hemphill Manufacturing Company. (See Jones, Frank E., assignor.)

Alphabetical list of patentees—Continued.

- Hemphill Manufacturing Company. (See Wilcomb, Frank, assignor.)
- Hemphill, Robert H., Port St. Joe, Fla. Transmission-gearing. No. 1,134,385; Apr. 6; Gaz. vol. 213; p. 110.
- Hench & Dromgold Company. (See Birnstock, William W., assignor.)
- Hendee, Edward T., Chicago, Ill. Metal friction cutting machine. No. 1,126,212; Jan. 26; Gaz. vol. 210; p. 1179.
- Hendee Manufacturing Company. (See Gustafson, Carl J., assignor.)
- Hendee Manufacturing Company. (See Jones, James H., assignor.)
- Henderson, Albert, Avalon, Pa. Clip for reinforcing-rods. No. 1,149,648; Aug. 10; Gaz. vol. 217; p. 520.
- Henderson, Albert E., Toronto, Ontario, Canada, assignor to Superior Tubes and Accessories, Limited. Valve connection for pneumatic-tire tubes. No. 1,160,168; Nov. 16; Gaz. vol. 220; p. 705.
- Henderson, Albert E., Toronto, Ontario, Canada, assignor to Superior Tubes and Accessories, Limited. Inflation-valve for pneumatic tires. No. 1,160,712; Nov. 16; Gaz. vol. 220; p. 899.
- Henderson, Albert H., and J. T. Mahon, assignors to The Henderson Rubber Company, Baltimore, Md. Loom. No. 1,141,635; June 1; Gaz. vol. 215; p. 195.
- Henderson, Carl, Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Delivery mechanism for printing-presses. No. 1,156,903; Oct. 19; Gaz. vol. 219; p. 605.
- Henderson, Carl, Oak Park, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Anti-offset device for printing-presses. No. 1,160,892; Nov. 16; Gaz. vol. 220; p. 959.
- Henderson, Carl O., Spooner, Wis. Weed-digging machine. No. 1,147,241; July 20; Gaz. vol. 216; p. 833.
- Henderson, Charles F., Madisonville, assignor to The Kemper-Thomas Company, Norwood, Ohio. Cap. No. 1,148,586; Aug. 3; Gaz. vol. 217; p. 37.
- Henderson, Charles W., Strathmore, Cal. Fishing-tool. No. 1,156,289; Oct. 12; Gaz. vol. 219; p. 358.
- Henderson, Clarence W., St. Lambert, assignor to Henderson Specialty Manufacturing Company, Limited, Montreal, Quebec, Canada. Electric-light attachment for bedsteads. No. 1,135,523; Apr. 13; Gaz. vol. 213; p. 553.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lifting-magnet controller. No. 1,126,762; Feb. 2; Gaz. vol. 211; p. 35.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric-motor controller. No. 1,134,196; Apr. 6; Gaz. vol. 213; p. 41.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Dynamic-braking controller. No. 1,134,197; Apr. 6; Gaz. vol. 213; p. 41.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for fluid-pressure-actuated devices. No. 1,141,114; June 1; Gaz. vol. 215; p. 9.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,143,194; June 15; Gaz. vol. 215; p. 816.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Vehicle. No. 1,143,195; June 15; Gaz. vol. 215; p. 817.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Dynamic-braking controller. No. 1,154,016; Sept. 21; Gaz. vol. 218; p. 656.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Driving mechanism. No. 1,157,307; Oct. 19; Gaz. vol. 219; p. 749.
- Henderson, Douglas, Dallas, Tex. Ice-tongs. No. 1,140,592; May 25; Gaz. vol. 214; p. 1118.
- Henderson, Edwin F., West Allis, Wis. Therapeutic truss. No. 1,133,958; Mar. 30; Gaz. vol. 212; p. 1612.
- Henderson, Edwin H., Jr. (See Rosner, Max, assignor.)
- Henderson, Emma E., Denver, Colo. Food-container. No. 1,145,139; July 6; Gaz. vol. 216; p. 57.
- Henderson & Ervin. (See Henderson, Mark M., assignor.) (Reissue.)
- Henderson, Frederick E., Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Pipe-drifting machine. No. 1,162,772; Dec. 7; Gaz. vol. 221; p. 14.
- Henderson, G. P. (See Parrott, John F., assignor.)
- Henderson, George A., Port Worth, Tex. Educational-chart drawing-board and writing-desk. No. 1,158,212; Oct. 26; Gaz. vol. 219; p. 1127.
- Henderson, George A., Charleston, W. Va. Aeroplane. No. 1,164,717; Dec. 21; Gaz. vol. 221; p. 778.
- Henderson, George E., near Manton, Cal. Electric level-indicator. No. 1,152,730; Sept. 7; Gaz. vol. 218; p. 128.
- Henderson, George K., assignor, by mesne assignments, to The International Printing Company, Indianapolis, Ind. Paper-delivering apparatus. No. 1,133,959; Mar. 30; Gaz. vol. 212; p. 1612.
- Henderson, George R., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Pressure device for boiler feed-pumps. No. 1,148,316; July 27; Gaz. vol. 216; p. 1240.
- Henderson, George R., and W. I. Cantley, Philadelphia, Pa., assignors, by mesne assignments, to Locomotive Superheater Company, Wilmington, Del. Superheater. No. 1,142,254; June 8; Gaz. vol. 215; p. 447.
- Henderson, Harry. (See Brownrigg, Henderson, and Case.)
- Henderson, Henry, Scotch Plains, N. J., and W. D. C. Wright, Philadelphia, Pa. Window-operating device. No. 1,125,317; Jan. 19; Gaz. vol. 210; p. 825.
- Henderson, Henry T., Keokuk, Iowa. Tire-setting machine. No. 1,166,369; Dec. 28; Gaz. vol. 221; p. 1400.
- Henderson, James A., et al. (See Staley, Thomas F., assignor.)
- Henderson, John, Waterbury, Conn. Tumbling-barrel. No. 1,143,268; June 15; Gaz. vol. 215; p. 841.
- Henderson, John, Waterbury, Conn. Tumbling-barrel. No. 1,155,150; Sept. 28; Gaz. vol. 218; p. 1074.
- Henderson, John D., Herkimer, N. Y. Cap-remover. No. 1,150,190; Aug. 17; Gaz. vol. 217; p. 775.
- Henderson, John H., East Oakland, Cal. Wave-motor. No. 1,126,999; Feb. 2; Gaz. vol. 211; p. 118.
- Henderson, John H., East Oakland, Cal. Water-raising apparatus. No. 1,145,482; July 6; Gaz. vol. 216; p. 178.
- Henderson, Joseph E., Monroe, N. C. Weighing and bagging machine. No. 1,155,487; Oct. 5; Gaz. vol. 219; p. 57.
- Henderson, Joseph M. (See Ellis and Henderson.)
- Henderson, Lewis W. (See Brockwell and Henderson.)
- Henderson, Mark M. (See Potter, Orlystis, assignor.)
- Henderson, Mark M., New York, N. Y. Underwear. No. 1,141,636; June 1; Gaz. vol. 215; p. 195.
- Henderson, Mark M., Norwalk, Conn., assignor to Henderson & Ervin, New York, N. Y. Union suit. (Reissue.) No. 1,140,19; Nov. 23; Gaz. vol. 220; p. 1339.
- Henderson, Melville T., et al. (See Bente, Henry K., assignor.)
- Henderson, Ralph M., Toledo, Ohio. Cabinet for holding stationery. No. 1,143,391; June 15; Gaz. vol. 215; p. 886.
- Henderson, Ray, Macomb, Ill. Live-stock feeder. No. 1,138,950; May 11; Gaz. vol. 214; p. 470.
- Henderson, Robert H., East Orange, N. J., assignor to Westinghouse Lamp Company. Manufacturing incandescent filaments. No. 1,144,595; June 29; Gaz. vol. 215; p. 1353.
- Henderson Rubber Company, The. (See Henderson and Mahon, assignors.)
- Henderson Specialty Manufacturing Company. (See Henderson, Clarence W., assignor.)
- Henderson, Wilbert D., San Francisco, Cal. Clamping-tool. No. 1,128,681; Feb. 16; Gaz. vol. 211; p. 794.
- Henderson, Wilbert D., San Francisco, Cal. Partition construction. No. 1,133,138; Mar. 23; Gaz. vol. 212; p. 1286.
- Henderson, Wrex A., Randsburg, Cal. Automobile transmission. No. 1,136,526; Apr. 20; Gaz. vol. 213; p. 949.
- Hendey Machine Company, The. (See Bouillon, Constant, assignor.)
- Hendren, Walter S., Nicholasville, Ky. Toy. No. 1,129,801; Feb. 23; Gaz. vol. 211; p. 1218.
- Hendrick, Frank B., New York, N. Y. Milk-bottle holder. No. 1,124,020; Jan. 5; Gaz. vol. 210; p. 279.
- Hendrick, John H., Denver, Colo. Adjustable bed. No. 1,156,359; Oct. 12; Gaz. vol. 219; p. 383.
- Hendrick, Ray L., Takoma Park, Md. Line-up and registering device. No. 1,135,581; Apr. 13; Gaz. vol. 213; p. 574.
- Hendricks, Augustin, and W. P. Brockschmidt, Grand Rapids, Mich.; said Brockschmidt assignor to said Hendricks. Joint for tubular structures. No. 1,136,010; Apr. 20; Gaz. vol. 213; p. 766.
- Hendrickson, Charles A., Youngstown, Ohio, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,150,834; Aug. 17; Gaz. vol. 217; p. 998.
- Hendrickson, Frank F., Garfield, N. J. Drum-beater. No. 1,142,095; June 8; Gaz. vol. 215; p. 392.
- Hendrickson, Frank F., Garfield, N. J. Supporting member. No. 1,149,762; Aug. 10; Gaz. vol. 217; p. 559.
- Hendrickson, Gustaf A., Chicago, Ill. Piston-ring. No. 1,127,619; Feb. 9; Gaz. vol. 211; p. 373.
- Hendrickson Machine Company, The. (See Noyes, Mayhew E., assignor.)
- Hendrickson, Thomas M., assignor of one-half to T. J. Ragsdale, Lees Summit, Mo. Lifting-jack. No. 1,153,223; Sept. 14; Gaz. vol. 218; p. 341.
- Hendrix, Herbert A., Albert Lea, Minn. Combined churn and butter-worker. No. 1,141,706; June 1; Gaz. vol. 215; p. 219.
- Hendry, George W., San Francisco, Cal. Adjustable life-jacket. No. 1,154,860; Sept. 28; Gaz. vol. 218; p. 972.
- Henemier, Robert H., New York, N. Y. Exhaust-valve and pressure-gage for pneumatic tires. No. 1,137,209; Apr. 27; Gaz. vol. 213; p. 1229.
- Henemier, Robert H., New York, N. Y. Tire-valve alloy. No. 1,147,398; July 20; Gaz. vol. 216; p. 889.
- Hengelhaupt, Hugo H., and L. Möller, Philadelphia, Pa. Firearm. No. 1,147,860; July 27; Gaz. vol. 216; p. 1076.

Alphabetical list of patentees—Continued.

- Henger, Edwin W., Oak Park, Ill., assignor to Waterbury Mfg. Co., Waterbury, Conn. Shade or globe holder. No. 1,134,533; Apr. 6; Gaz. vol. 213; p. 164.
- Henggi, Lewis O., Oakmont, Pa. Tie-plate. No. 1,136,333; Apr. 20; Gaz. vol. 213; p. 878.
- Hendison, Samuel, New York, N. Y. Hat-holder for chairs. No. 1,147,505; July 20; Gaz. vol. 216; p. 926.
- Heninger, Eles L., and D. Reed, Jr., Kokomo, Ind. Eggcrate. No. 1,138,475; May 4; Gaz. vol. 214; p. 265.
- Henington, Richard A., Washington, Miss. Track-gage. No. 1,131,377; Mar. 9; Gaz. vol. 212; p. 566.
- Henke, Fred C. (See Davis, Henke, and Hawley.)
- Henkel & Cie. (See Fischer, Franz, assignor.)
- Henkel & Cie. (See Weber, Walter, assignor.)
- Henkels, Alb. & E. (See Schumacher, August, assignor.)
- Henkels, Albert, Langerfeld, near Barmen, Germany. Lace with gauzelike foundation. No. 1,135,582; Apr. 13; Gaz. vol. 213; p. 574.
- Henkels, Albert, Langerfeld, near Barmen, Germany. Braiding-carrier. No. 1,154,017; Sept. 21; Gaz. vol. 218; p. 656.
- Henker, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Optical testing instrument. No. 1,162,058; Nov. 30; Gaz. vol. 220; p. 1461.
- Henker, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Testing-spectacles. No. 1,165,597; Dec. 28; Gaz. vol. 221; p. 1124.
- Henley, Bertie M., Geddes, S. D. Ice-scale for refrigerators. No. 1,139,522; May 18; Gaz. vol. 214; p. 706.
- Henley, Joseph V., St. Louis, Mo. Carbureter. No. 1,148,898; Aug. 3; Gaz. vol. 217; p. 146.
- Henneböhle, Frank, Chicago, Ill. Butterfly-valve. No. 1,152,176; Aug. 31; Gaz. vol. 217; p. 1562.
- Henneböhle, Frank, Chicago, and G. J. Patitz, Oak Park, Ill. Packaging liquids. No. 1,147,861; July 27; Gaz. vol. 216; p. 1077.
- Hennebutte, Henri, assignor to Société Anonyme des Combustibles Industriels, Paris, France. Manufacture of pure carbon. No. 1,155,419; Oct. 5; Gaz. vol. 219; p. 33.
- Hennebutte, Henri, assignor to Société des Combustibles Industriels, Paris, France. Distillation of hydrocarbons. No. 1,165,878; Dec. 28; Gaz. vol. 221; p. 1223.
- Hennebutte, Henry G., Paris, France. Refining petroleum. No. 1,165,877; Dec. 28; Gaz. vol. 221; p. 1223.
- Hennecke, Joseph W., assignor of one-half to H. J. Barber, Detroit, Mich. Hatchet. No. 1,150,585; Nov. 9; Gaz. vol. 220; p. 443.
- Hennessee, Claude, Atlanta, Ga. Combined seeder and guano-distributor. No. 1,124,616; Jan. 12; Gaz. vol. 210; p. 540.
- Hennessee, Claude, Tifton, Ga. Guano-distributor and grain-drill. No. 1,140,266; May 18; Gaz. vol. 214; p. 968.
- Hennessy, Daniel E., Holyoke, Mass. Automatic drift. No. 1,161,310; Nov. 23; Gaz. vol. 220; p. 1155.
- Hennessy, James J., St. Louis, Mo. Automatic lubricator. No. 1,142,705; June 8; Gaz. vol. 215; p. 603.
- Henneuse, Clarence A., San Jose, assignor, by mesne assignments, of one-third to S. Frame, Benicia, and one-third to W. J. Benson, San Jose, Cal. Traction apparatus. No. 1,153,845; Sept. 14; Gaz. vol. 218; p. 563.
- Henneveld, Jacobus, Laandam, and A. Lemei, Amsterdam, Netherlands. Cartridge-belt for machine-guns. No. 1,136,956; Apr. 27; Gaz. vol. 213; p. 1137.
- Hennig, Gustav K. (See Reichel and Hennig.)
- Hennig, Gustav K., assignor to Ludwig Hupfeld Aktien-gesellschaft, Böhlitz-Ehrenberg, near Leipzig, Germany. Automatic violin-bow. No. 1,131,930; Mar. 16; Gaz. vol. 212; p. 797.
- Hennig, Gustav K., Wahren, near Leipzig, assignor to Firm of L. Hupfeld Aktien-gesellschaft, Böhlitz-Ehrenberg, Leipzig, Germany. Tone-modulator for pneumatically-actuated musical instruments. No. 1,164,516; Dec. 14; Gaz. vol. 221; p. 669.
- Hennig, Hugo, Bridgeport, Conn. Machine for making solid-rubber tires. No. 1,134,454; Apr. 6; Gaz. vol. 213; p. 135.
- Henniger, John B. (See Guthrie, John K., assignor.)
- Henning, A. (See Sykes, James E., assignor.)
- Henning, Earl W., Jamestown, N. Y. Cloth-measuring machine. No. 1,158,686; Nov. 2; Gaz. vol. 220; p. 97.
- Henning, Thomas J., San Diego, Cal. Gas-cock. No. 1,128,445; Feb. 16; Gaz. vol. 211; p. 712.
- Hennings, Gustav, Pankow, Germany, assignor to General Electric Company. Protective device for search-lights. No. 1,164,282; Dec. 14; Gaz. vol. 221; p. 586.
- Henri Abraham et Jules Carpentier. (See Abraham, Henri, assignor.)
- Henri, George M. (See Hess and Henri.)
- Henri, Victor, A. Helbronner, and M. von Recklinghausen, Paris, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Sterilization of liquids. No. 1,124,737; Jan. 12; Gaz. vol. 210; p. 583.
- Henri, Victor, A. Helbronner, and M. von Recklinghausen, Paris, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Liquid-sterilizer. No. 1,132,265; Mar. 16; Gaz. vol. 212; p. 920.
- Henri, Victor, Paris, A. Helbronner and M. von Recklinghausen, Suresnes, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Apparatus for the treatment of water and other liquids by ultra-violet rays. No. 1,132,266; Mar. 16; Gaz. vol. 212; p. 920.
- Henri, Victor, Paris, A. Helbronner and M. von Recklinghausen, Suresnes, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Apparatus for treating liquids with ultra-violet rays. No. 1,140,818; May 25; Gaz. vol. 214; p. 1195.
- Henri, Victor, Paris, A. Helbronner and M. von Recklinghausen, Suresnes, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Apparatus for the treatment of water and other liquids by ultra-violet rays. No. 1,140,819; May 25; Gaz. vol. 214; p. 1195.
- Henri, Victor, A. Helbronner, and M. von Recklinghausen, Paris, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Apparatus for treating liquids with ultra-violet rays. No. 1,145,140; July 6; Gaz. vol. 216; p. 58.
- Henri, Victor, A. Helbronner, and M. von Recklinghausen, Paris, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Treatment of water and other liquids by ultra-violet rays. No. 1,150,117; Aug. 17; Gaz. vol. 217; p. 747.
- Henri, Victor, A. Helbronner, and M. von Recklinghausen, Paris, France, assignors, by mesne assignments, to The R. U. V. Company, Inc. Apparatus for sterilizing liquids by means of ultra-violet rays. No. 1,151,267; Aug. 24; Gaz. vol. 217; p. 1203.
- Henrich, Henry, New York, N. Y. Machine for rolling finger-rings. No. 1,124,434; Jan. 12; Gaz. vol. 210; p. 474.
- Henrichsen, Christian, Pittsfield, Mass., assignor to General Electric Company. Arc-lamp. No. 1,152,731; Sept. 7; Gaz. vol. 218; p. 129.
- Henrichsen, Christian, Pittsfield, Mass., assignor to General Electric Company. Arc-lamp. No. 1,150,765; Nov. 9; Gaz. vol. 220; p. 508.
- Henrici, William A. E., Boston, Mass. Washing and drying clothes or other textile materials. No. 1,160,109; Nov. 9; Gaz. vol. 220; p. 630.
- Henricks Novelty Company. (See Daily, Irvin J., assignor.)
- Henriksen, Louis C., Portland, Oreg. Electric water-heater. No. 1,163,536; Dec. 7; Gaz. vol. 221; p. 280.
- Henriquez, Alfons von, Wiener-Neustadt, assignor to B. Wetzler, Vienna, Austria-Hungary. Machine for loading cartridges. No. 1,164,433; Dec. 14; Gaz. vol. 221; p. 639.
- Henry, Albert C. (See Horne and Crane, assignors.)
- Henry, Charles F., Lents, Oreg. Power-transmitting mechanism. No. 1,148,333; July 27; Gaz. vol. 216; p. 1264.
- Henry, Charles G. (See Green, George L., assignor.)
- Henry, Claud, Edgemont, Ark. Telegraph apparatus. No. 1,130,901; Mar. 9; Gaz. vol. 212; p. 404.
- Henry Conolly Company. (See Magin, John G., assignor.)
- Henry Disston & Sons. (See Freas, Samuel T., assignor.)
- Henry Disston & Sons. (See Kendall, William R., assignor.)
- Henry Disston & Sons Incorporated. (See Charlton, Richard C., assignor.)
- Henry Disston & Sons Incorporated. (See King, Ernest A., assignor.)
- Henry, Eugene E., assignor of one-half to I. F. Bidwell, Astoria, Oreg. Coin-handling device. No. 1,144,985; June 29; Gaz. vol. 215; p. 1487.
- Henry, Eugene E., Astoria, Oreg., assignor of one-half to C. Doran, Bellingham, Wash. Saw-grinding machine. No. 1,146,705; July 13; Gaz. vol. 216; p. 625.
- Henry, Ferdinand G., assignor to C. Beck Company, Philadelphia, Pa. Machine for applying paper to the tops of boxes and other articles. No. 1,156,005; Oct. 5; Gaz. vol. 219; p. 235.
- Henry, George W. (See Gipe and Henry.)
- Henry, George W., Glendale, assignor of one-half to E. Boissier, Great Neck, N. Y. Safety clasp or catch. No. 1,152,892; Sept. 7; Gaz. vol. 218; p. 189.
- Henry, Howard, Kirkville, Mo. Measuring instrument. No. 1,142,958; June 15; Gaz. vol. 215; p. 733.
- Henry, James N., Providence, R. I. Bracket for curtains. No. 1,156,076; Oct. 12; Gaz. vol. 219; p. 288.
- Henry, John, Cincinnati, Ohio. Direction-indicator. No. 1,146,706; July 13; Gaz. vol. 216; p. 626.
- Henry, John A., Hope, Ark. Shock-absorber. No. 1,128,977; Feb. 16; Gaz. vol. 211; p. 900.
- Henry, John F., Versailles, Ill. Stove-lid. No. 1,141,058; May 25; Gaz. vol. 214; p. 1280.
- Henry, John W., New York, N. Y. Fastening device for chair-seats. No. 1,126,213; Jan. 26; Gaz. vol. 210; p. 1179.
- Henry, Joseph L., et al. (See Bryant, John M. C., assignor.)
- Henry, Michael. (See Henry, Michael L. and M.)
- Henry, Michael L. and M., Terre Haute, Ind. Grease-cup. No. 1,137,858; May 4; Gaz. vol. 214; p. 47.
- Henry, Nelson B., assignor to Murray Company, Dallas, Tex. Steam-cushion valve. No. 1,132,718; Mar. 23; Gaz. vol. 212; p. 1132.
- Henry Pooley and Son Limited. (See Dobson, James, assignor.)

Alphabetical list of patentees—Continued.

- Henry R. Worthington. (See Allerton, Robert W., assignor.)
- Henry R. Worthington. (See Berrigan, John J., assignor.)
- Henry R. Worthington. (See Grace, John F., assignor.)
- Henry R. Worthington. (See Sebald, Joseph H., assignor.)
- Henry R. Worthington. (See Sims, Joseph W., assignor.)
- Henry R. Worthington. (See Sulzer, Georg, assignor.)
- Henry Richmond and Sons. (See Oddy, William D., assignor.)
- Henry, Robert, Blue Lake, Cal. Beet-puller. No. 1,160,405; Nov. 16; Gaz. vol. 220; p. 785.
- Henry Vogt Machine Company. (See Thurstensen, Soren, assignor.)
- Henry, Walter, Nottingham, England. Making treads for tires. No. 1,163,999; Dec. 14; Gaz. vol. 221; p. 488.
- Henry, Walter P., Des Moines, Iowa. Cabinet for drying films, plates, and prints. No. 1,153,688; Sept. 14; Gaz. vol. 218; p. 507.
- Henry Weis Cornice Co. (See McClelland, John, assignor.)
- Henry, Wesley Y., Seattle, Wash. Article-holder. No. 1,147,019; July 20; Gaz. vol. 216; p. 756.
- Henry, William C. A., Columbus, Ohio. Stoker mechanism. No. 1,134,198; Apr. 6; Gaz. vol. 213; p. 42.
- Henry, William F. W., Hammond, Ind. Water-tube fire-box boiler. No. 1,152,021; Aug. 31; Gaz. vol. 217; p. 1508.
- Henry, William K., assignor to The American Hardware Corporation, New Britain, Conn. Door closer and check. No. 1,126,635; Jan. 26; Gaz. vol. 210; p. 1332.
- Henry, William K., assignor to The American Hardware Corporation, New Britain, Conn. Door check and closer. No. 1,140,457; May 25; Gaz. vol. 214; p. 1070.
- Henry, William K., assignor to The American Hardware Corporation, New Britain, Conn. Door-controller. No. 1,155,310; Sept. 28; Gaz. vol. 218; p. 1124.
- Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Dynamic return indication-signal. No. 1,127,436; Feb. 9; Gaz. vol. 211; p. 310.
- Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Adjustable cam. No. 1,162,693; Nov. 30; Gaz. vol. 220; p. 1676.
- Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Individual protective arrangement for interlocked functions. No. 1,163,147; Dec. 7; Gaz. vol. 221; p. 143.
- Henry, William S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Counter-torque-exerting device. No. 1,164,517; Dec. 14; Gaz. vol. 221; p. 669.
- Henry, William W. (See Couch, Henry, and Stevens.)
- Henry, William W., Wollaston, assignor to S. H. Couch Co. Inc., Atlantic, Mass. Intercommunicating telephone. No. 1,130,971; Mar. 9; Gaz. vol. 212; p. 427.
- Henschel, Charles J., Bloomfield, and C. Messick, Hackensack, N. J., assignors to said Henschel. Geometrically-progressive control system. No. 1,139,972; May 18; Gaz. vol. 214; p. 864.
- Henshaw, F. R., trustee. (See Jameson, Alexander, assignor.)
- Henshaw, Seth B., assignor to The Charleston Window Glass Company, Charleston, W. Va. Glass-furnace. No. 1,127,245; Feb. 2; Gaz. vol. 211; p. 205.
- Hensley, Charles C., Alexandria, Ind. Folding trestle. No. 1,150,938; Aug. 24; Gaz. vol. 217; p. 1092.
- Hensley, David M., and E. M. Sether, Decatur, Ind. Cuff-button. No. 1,133,859; Mar. 30; Gaz. vol. 212; p. 1581.
- Hensley, James W., Indianapolis, Ind. Excavating apparatus. No. 1,133,960; Mar. 30; Gaz. vol. 212; p. 1612.
- Henthorn, Clyde, and W. T. Webe, Bellaire, Ohio. Emergency axle extension. No. 1,139,182; May 11; Gaz. vol. 214; p. 553.
- Hentschel, Andrew J., Schulenburg, Tex. Bridle. No. 1,132,182; Mar. 16; Gaz. vol. 212; p. 888.
- Hentschel, Charles T. (See Hunt and Hentschel.)
- Hentschel, Edward O., Cincinnati, and W. F. C. Harting, Elmwood Place, Ohio. Automatic brake-releaser. No. 1,147,242; July 20; Gaz. vol. 216; p. 834.
- Hentschel, Edward O., Cleveland, and W. F. C. Harting, Elmwood Place, Ohio. Bleed-valve for air-brakes. No. 1,147,243; July 20; Gaz. vol. 216; p. 834.
- Henvis, Maurice P., Washington, D. C., assignor to Individual Drinking Cup Company, New York, N. Y. Dispensing apparatus. No. 1,141,764; June 29; Gaz. vol. 215; p. 1412.
- Henzel, John G., Chicago, Ill. Bait-hook. No. 1,155,923; Oct. 5; Gaz. vol. 219; p. 208.
- Henzl, Albert A., assignor to The Goss Printing Press Company, Chicago, Ill. Chase. No. 1,162,861; Dec. 7; Gaz. vol. 221; p. 45.
- Heon, Charles O., Portage, assignor to Heon Reminder Clock Company, Inc., Janesville, Wis. Program-clock. No. 1,136,602; Apr. 20; Gaz. vol. 213; p. 975.
- Heon Reminder Clock Company. (See Heon, Charles O., assignor.)
- Hepler, Charles R., Tarentum, Pa. Motor-vehicle steering mechanism. No. 1,163,406; Dec. 7; Gaz. vol. 221; p. 235.
- Hepner, Harry W., Allentown, Pa. Polishing-mitt. No. 1,139,283; May 11; Gaz. vol. 214; p. 586.
- Hepp, George A., assignor of one-half to P. Foran, Omaha, Nebr. Post-hole digger. No. 1,128,137; Feb. 9; Gaz. vol. 211; p. 557.
- Heppes, George P., La Grange, Ill. Shingle. No. 1,159,766; Nov. 9; Gaz. vol. 220; p. 509.
- Heraeus, G. m. b. H., Firm of W. C. (See Haagn, Ernst, assignor.)
- Herb, William V., and G. A. King, Allentown, Pa. Automatic oil-gage. No. 1,163,919; Dec. 14; Gaz. vol. 221; p. 459.
- Herbert, Albert H., *et al.* (See Kenney, Gerald, assignor.)
- Herbert, Frank C., Hampstead, London, England. Device for preventing the fraudulent refilling of bottles. No. 1,140,744; May 25; Gaz. vol. 214; p. 1170.
- Herbert, Michael E., Chicago, Ill. Downdraft side-feed smokeless furnace. No. 1,132,474; Mar. 16; Gaz. vol. 212; p. 994.
- Herbert Morris Limited. (See Butterworth, Joseph A., assignor.)
- Herbert, Samuel, assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,144,762; June 29; Gaz. vol. 215; p. 1412.
- Herbing, Johannes, Halle-on-the-Saale, Germany. Apparatus for extracting dust from air or vapor. No. 1,130,596; Mar. 2; Gaz. vol. 212; p. 264.
- Herbison, Beauford. (See Hyler and Herbison.)
- Herbold, Friedrich W., assignor to W. E. Reeser, Amsterdam, Netherlands. Manufacture of elastic substances. No. 1,151,948; Aug. 31; Gaz. vol. 217; p. 1481.
- Herboldt, John, Woodside, Idaho. Culinary implement. No. 1,127,620; Feb. 9; Gaz. vol. 211; p. 373.
- Herboldt, John, Woodside, Idaho. Medicine-box. No. 1,138,562; May 4; Gaz. vol. 214; p. 293.
- Herboltzheimer, Edward T. (See Gallagher and Herboltzheimer.)
- Herbst, Richard, Halle-on-the-Saale, Germany. Mixing and kneading machine. No. 1,138,654; May 11; Gaz. vol. 214; p. 364.
- Herbst, Samuel H., Jr., Fullerton, Pa. Railway-tie. No. 1,130,511; Mar. 2; Gaz. vol. 212; p. 235.
- Herbstriet, Martha J., Urbana, Ill. Colander. No. 1,139,033; May 11; Gaz. vol. 214; p. 501.
- Hercules Equipment Company. (See Neikirk, John O., assignor.)
- Hercules Equipment Company. (See Neikirk and Bancroft, assignors.)
- Herd, J. M. and J. E., *et al.* (See Cook, Jim, assignor.)
- Herdlein, John, Vineland, Mo. Disk cultivator. No. 1,164,518; Dec. 14; Gaz. vol. 221; p. 670.
- Herdman, William H., Portland, Oreg. Mechanical driving connection. No. 1,163,920; Dec. 14; Gaz. vol. 221; p. 460.
- Hereth, Frank S., New York, N. Y., assignor to E. R. Squibb & Sons. Combined bottle and dropping device. No. 1,142,517; June 8; Gaz. vol. 215; p. 541.
- Heretyk, John, Fulton, N. Y. Combined cigarette-box and match-holder. No. 1,143,627; June 22; Gaz. vol. 215; p. 990.
- Herff, Otto von, Basel, Switzerland. Surgical clip. No. 1,123,290; Jan. 5; Gaz. vol. 210; p. 30.
- Hering, Carl, Philadelphia, Pa. Method of and apparatus for treating fluid material. No. 1,160,169; Nov. 16; Gaz. vol. 220; p. 705.
- Hering, Carl, Philadelphia, Pa. Electric furnace. No. 1,162,773; Dec. 7; Gaz. vol. 221; p. 14.
- Hering, Louis F., assignor of one-half to A. Konjetzky, Pomona, Cal. Shoe-heel. No. 1,139,417; May 11; Gaz. vol. 214; p. 634.
- Hering, Thomas S. (See McLaughlin, Eugene F., assignor.)
- Herkenhoff, Anthony L., Minster, Ohio. Clutch. No. 1,130,972; Mar. 9; Gaz. vol. 212; p. 427.
- Herkenrath, Franz, Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Apparatus for melting and spraying fusible substances. No. 1,151,586; Aug. 31; Gaz. vol. 217; p. 1358.
- Herkenrath, Franz, Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Melting and spraying fusible substances. No. 1,157,984; Oct. 26; Gaz. vol. 219; p. 1048.
- Herkt, Ernst, assignor to Fried. Krupp Aktiengesellschaft Germaniaerwert, Kiel-Gaarden, Germany. Cam control for valves of internal-combustion engines. No. 1,164,183; Dec. 14; Gaz. vol. 221; p. 551.
- Herle, Chester A. (See Alexander, Elizabeth A., assignor.)
- Herman, Harry, assignor of one-half to J. Herman, Pittsburgh, Pa. Nut and bolt lock. No. 1,133,860; Mar. 30; Gaz. vol. 212; p. 1582.
- Herman, Jacob. (See Herman, Harry, assignor.)
- Herman, John L., Fort Wayne, Ind. Universal load-box. No. 1,143,963; June 22; Gaz. vol. 215; p. 1105.
- Herman, John P., Edmonds, Wash. Lubricator-pump. No. 1,136,334; Apr. 20; Gaz. vol. 213; p. 879.
- Herman, Joseph, Reno, Nev. Churn. No. 1,145,483; July 6; Gaz. vol. 216; p. 179.

Alphabetical list of patentees—Continued.

- Herman, Joseph, South Bartonville, assignor to Keystone Steel & Wire Company, Peoria, Ill. Automatic wire-gage and detector. No. 1,141,707; June 1; Gaz. vol. 215; p. 220.
- Herman, Karl I., Chicago, Ill. Carton-blank. No. 1,130,818; Mar. 9; Gaz. vol. 212; p. 374.
- Herman, Karl I., Chicago, Ill. Carton-blank. No. 1,159,024; Nov. 2; Gaz. vol. 220; p. 212.
- Herman, Max, Philadelphia, Pa. Wearing-apparel. No. 1,138,951; May 11; Gaz. vol. 214; p. 470.
- Herman, Moses M., Danville, Va. Demountable-rim tool. No. 1,133,139; Mar. 23; Gaz. vol. 212; p. 1287.
- Herman, Moses M., Danville, Va. Rim-tool. No. 1,155,151; Sept. 28; Gaz. vol. 218; p. 1074.
- Herman, Reinhold, Crafton, Pa. Variable-speed controller. No. 1,147,089; July 29; Gaz. vol. 216; p. 779.
- Herman, Reinhold, Crafton, Pa. Blue-printing apparatus. No. 1,147,693; July 29; Gaz. vol. 216; p. 991.
- Herman, Reinhold, Pittsburgh, Pa. Shock-absorbing device. No. 1,155,568; Oct. 5; Gaz. vol. 219; p. 84.
- Herman, William, assignor to Keystone Steel & Wire Company, South Bartonville, Ill. Stay-feed regulator for wire-fence-fabric machines. No. 1,151,784; Aug. 31; Gaz. vol. 217; p. 1426.
- Hermann Ankam & Co. (See Jensen, Karl F., assignor.)
- Hermann Bauermeister Maschinenfabrik u. Mühlenbauanstalt G. m. b. H. (See Kettner, Friedrich W., assignor.)
- Hermann, Charles, San Francisco, Cal. Amusement apparatus. No. 1,149,513; Aug. 10; Gaz. vol. 217; p. 468.
- Hermann, Ellis E., *et al.* (See Fawkes, Wilbert C., assignor.)
- Hermann, Gustavus H., Minneapolis, Minn. Gas-burner appliance. No. 1,144,199; June 22; Gaz. vol. 215; p. 1190.
- Hermann, John, San Francisco, Cal. Safe. No. 1,123,291; Jan. 5; Gaz. vol. 210; p. 30.
- Hermann, Walter H., Lancaster, Ohio. Tire-building machine. No. 1,159,840; Nov. 9; Gaz. vol. 220; p. 536.
- Hermanns, Alexander, and A. Merkel; said Hermanns assignor to I. Mühlbeck, Paterson, N. J. Non-refillable bottle. No. 1,162,774; Dec. 7; Gaz. vol. 221; p. 15.
- Hermany, Alfred. (See Cannon and Hermany.)
- Hermany, Harry L., Wanamakers, Pa. Furniture-caster. No. 1,163,537; Dec. 7; Gaz. vol. 221; p. 280.
- Hermismeyer, Henry C. (See Floyd, William B., assignor.)
- Hern, Jay J., *et al.* (See Grady, Frank W., assignor.)
- Hernandez, Julio P., Hilo, Philippine Islands. File-box. No. 1,135,282; Apr. 13; Gaz. vol. 213; p. 468.
- Herndon, Frank F. (See Rymer, John E., assignor.)
- Herndon, Julian. (See Welton and Herndon.)
- Hernhuter, Emma, New York, N. Y. Bag. No. 1,157,388; Oct. 19; Gaz. vol. 219; p. 778.
- Herold, Harry G., New York, N. Y., assignor to General Optical Co., Inc. Electric attachment for ophthalmoscopes. No. 1,145,586; July 6; Gaz. vol. 216; p. 212.
- Herold, John, Lewiston, Me. Stock-trough. No. 1,154,768; Sept. 28; Gaz. vol. 218; p. 942.
- Herold, Rudolph, Jr. (See Lindberg, Josef, assignor.)
- Heron, James C., and W. J. Clark, Pittsburgh, Pa. Fiber keg or barrel. No. 1,154,699; Sept. 28; Gaz. vol. 218; p. 919.
- Heron, Louis M., Washington, D. C. Calculating-machine. No. 1,136,673; Apr. 20; Gaz. vol. 213; p. 999.
- Heron, Robert E., Syracuse, N. Y. Buffer. No. 1,137,138; Apr. 27; Gaz. vol. 213; p. 1203.
- Herr, Charles H., St. Louis, Mo. Motor control. No. 1,165,098; Dec. 21; Gaz. vol. 221; p. 912.
- Herr, Henry C., Detroit, Mich., assignor, by mesne assignments, to South Side Trust Company, Pittsburgh, Pa., trustee. Package-heading machine. No. 1,123,292; Jan. 5; Gaz. vol. 210; p. 31.
- Herr, Henry C., Detroit, Mich., assignor, by mesne assignments, to South Side Trust Company, trustee, Pittsburgh, Pa. Nail-feeding mechanism. No. 1,137,316; Apr. 27; Gaz. vol. 213; p. 1269.
- Herr, Henry C., assignor, by mesne assignments, to South Side Trust Company, trustee, Pittsburgh, Pa. Reinforced-fiber container. No. 1,145,413; July 6; Gaz. vol. 216; p. 154.
- Herr, Henry C., assignor, by mesne assignments, to South Side Trust Company, Pittsburgh, Pa., trustee. Barrel-heading machine. No. 1,153,160; Sept. 7; Gaz. vol. 218; p. 280.
- Herr, Herbert T., Denver, Colo. Combined engine and compressor. No. 1,161,128; Nov. 23; Gaz. vol. 220; p. 1088.
- Herr, Herbert T., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Marine turbine. No. 1,133,283; Mar. 30; Gaz. vol. 212; p. 1374.
- Herr, Herbert T., Pittsburgh, Pa., assignor to The Westinghouse Machine Company. Turbine-blading. No. 1,149,366; Aug. 10; Gaz. vol. 217; p. 417.
- Herr, Herbert T., Pittsburgh, Pa., assignor to The Westinghouse Machine Company. Blade construction for elastic-fluid turbines. No. 1,165,005; Dec. 21; Gaz. vol. 221; p. 879.
- Herr, Homer A., Philadelphia, Pa. Automatic hydraulic press. No. 1,124,738; Jan. 12; Gaz. vol. 210; p. 583.
- Herr, Homer A., Philadelphia, Pa. Continuous automatic centrifugal machine. No. 1,166,370; Dec. 28; Gaz. vol. 221; p. 1400.
- Herre, Alfred. (See Bauer and Herre.)
- Herrick, Albert B., New York, N. Y., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Making a homogeneous mechanical juncture. No. 1,142,428; June 8; Gaz. vol. 215; p. 510.
- Herrick, Albert B., New York, N. Y., assignor to M. C. Messler, Pawtucket, R. I. Inductor. No. 1,164,611; Dec. 14; Gaz. vol. 221; p. 700.
- Herrick, James A., New York, N. Y. Gas-producer. No. 1,162,357; Nov. 30; Gaz. vol. 220; p. 1566.
- Herrick, William T., Tulsa, Okla. Wire-line wrench and making same. No. 1,157,938; Oct. 26; Gaz. vol. 219; p. 1031.
- Herring, Arthur W., Toledo, Ohio. Railway-crossing. No. 1,131,515; Mar. 9; Gaz. vol. 212; p. 614.
- Herring, August A., Toledo, Ohio. Hat-fastener. No. 1,158,213; Oct. 26; Gaz. vol. 219; p. 1128.
- Herring-Hall-Marvin Safe Company. (See Millice and Mueller, assignors.)
- Herring, Samuel R., Morton, Miss. Mail-delivering device. No. 1,140,267; May 18; Gaz. vol. 214; p. 968.
- Herring, Warren. (See Wilson, Pierce H., assignor.)
- Herringstad, Nels A., Albert Lea, Minn. Auxiliary lifting-handle for shovels. No. 1,151,012; Aug. 24; Gaz. vol. 217; p. 1117.
- Herrington, Jefferson M., Pensacola, Fla. Vehicle support-actuating device. No. 1,150,821; Aug. 17; Gaz. vol. 217; p. 993.
- Herrmann, Carl F., Chicago, Ill. Wheel-lock. No. 1,160,893; Nov. 16; Gaz. vol. 220; p. 960.
- Herrmann, Carl L., Torrington, Conn. Tool for demountable rims. No. 1,132,845; Mar. 23; Gaz. vol. 212; p. 1181.
- Herrmann, Charles E., Scarsdale, N. Y., assignor to Moose Mountain, Limited, Sellwood, Ontario, Canada. Briquetting ore concentrates. No. 1,155,311; Sept. 28; Gaz. vol. 218; p. 1125.
- Herrmann, Eugene C., Los Angeles, Cal. Robe-holder. No. 1,147,167; July 20; Gaz. vol. 216; p. 807.
- Herrmann, George F., Jersey City, N. J. Safety gas-burner. No. 1,135,283; Apr. 13; Gaz. vol. 213; p. 468.
- Herrmann, Otto, Manebach, Germany. Thermometer. No. 1,136,527; Apr. 20; Gaz. vol. 213; p. 949.
- Herrmann, Samuel G., New York, N. Y. Binding and suspending device. No. 1,157,107; Oct. 19; Gaz. vol. 219; p. 677.
- Herrold, Charles D., San Jose, Cal. Conical helix. No. 1,145,366; July 6; Gaz. vol. 216; p. 136.
- Herrold, Charles D., and E. A. B. Portal, San Jose, Cal. Telephone-transmitter. No. 1,165,255; Dec. 21; Gaz. vol. 221; p. 968.
- Herron, Harry P., Los Angeles, Cal., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Hose-washer. No. 1,157,536; Oct. 19; Gaz. vol. 219; p. 829.
- Herron, Ollie L., Chicago, Ill. Inclosure for vehicles. No. 1,142,959; June 15; Gaz. vol. 215; p. 733.
- Herschberger, E. C. (See Arthur, John E. and R. L., assignors.)
- Herschberger, Eli C. (See Arthur, Roy L., assignor.)
- Herschede Hall Clock Company. (See Herschede, Walter J., assignor.)
- Herschede, Walter J., assignor to Herschede Hall Clock Company, Cincinnati, Ohio. Clock mechanism. No. 1,126,214; Jan. 26; Gaz. vol. 210; p. 1180.
- Hersee, Frederick C., Roslindale, Mass. Timer. No. 1,128,978; Feb. 10; Gaz. vol. 211; p. 900.
- Hersee, Frederick C., Roslindale, and L. W. Lombard, assignors to Motor Specialties Company, Waltham, Mass. Timer. No. 1,137,713; Apr. 27; Gaz. vol. 213; p. 1403.
- Hersey, Guy A., Bangor, Me. Metallic spool. No. 1,143,392; June 15; Gaz. vol. 215; p. 887.
- Hersey, Reginald F., Beverly, Mass. Hand-vice. No. 1,162,059; Nov. 30; Gaz. vol. 220; p. 1462.
- Hershey, Herbert C., Hanover, Pa., assignor to N-W Equipment Co., Inc., New York, N. Y. Safety-fuse for electric circuits. No. 1,124,133; Jan. 5; Gaz. vol. 210; p. 317.
- Hershey, John B., assignor to The Hershey Machine & Foundry Co., Manheim, Pa. Hog-feeder. No. 1,141,059; May 25; Gaz. vol. 214; p. 1280.
- Hershey Machine & Foundry Co., The. (See Hershey, John B., assignor.)
- Hershman, Paul R., assignor to Armour Fertilizer Works, Chicago, Ill. Producing heat-resisting bodies. No. 1,135,182; Apr. 13; Gaz. vol. 213; p. 435.
- Hershman, Paul R., Chicago, Ill., assignor to The Mineral Products Company, New York, N. Y. Making alkali-soluble alumina. No. 1,137,617; Apr. 27; Gaz. vol. 213; p. 1373.
- Hershow, David S., Chelsea, Mass. Vulcanizing apparatus. No. 1,162,235; Nov. 30; Gaz. vol. 220; p. 1523.
- Herskovitz, Max, Chicago, Ill. Attachment-plug. No. 1,162,921; Dec. 7; Gaz. vol. 221; p. 65.
- Herskovitz, Max, assignor to Peerless Light Company, Chicago, Ill. Hanger for light-reflecting bowls. No. 1,166,371; Dec. 28; Gaz. vol. 221; p. 1401.
- Hersman, Alden B. (See Long and Hersman.)
- Herstedt, John. (See Anderson, John R., assignor.)
- Hert, Henry J. (See Eakin, William O., assignor.)

Alphabetical list of patents—Continued.

- Herter, Edward J., Greenville, N. J. Label. No. 1,145,367; July 6; Gaz. vol. 216; p. 136.
- Hertner, John H. (See Cookingham and Hertner.)
- Hertwig, Max E., Elizabeth, N. J. Shade-support. No. 1,130,973; Mar. 9; Gaz. vol. 212; p. 428.
- Hertz, Charles F., Detroit, Mich. Saw-filing machine. No. 1,135,015; Apr. 13; Gaz. vol. 213; p. 378.
- Hertzberg, Harry, Denver, Colo. Planetary gearing. No. 1,154,769; Sept. 28; Gaz. vol. 218; p. 942.
- Hertzog, Oscar S., Philadelphia, Pa. Carbureter. No. 1,141,796; June 1; Gaz. vol. 215; p. 249.
- Herwig, William D., Jr., Chicago, Ill. Electric-light fixture and the like. No. 1,141,637; June 1; Gaz. vol. 215; p. 195.
- Herz, Alfred. (See Schweitzer and Herz.)
- Herz, Alfred, Chicago, Ill. Recording electric meter. No. 1,156,226; Oct. 12; Gaz. vol. 219; p. 337.
- Herz, Alfred, Chicago, Ill. Explosive-turbine. No. 1,164,091; Dec. 14; Gaz. vol. 221; p. 520.
- Herz, Felix. (See Sheldon, Thomas H., assignor.)
- Herz, Gustave L., Vienna, Austria-Hungary. Electric-cable terminal. No. 1,139,973; May 18; Gaz. vol. 214; p. 866.
- Herz, Henry, New York, N. Y. Buckle. No. 1,160,605; Nov. 16; Gaz. vol. 220; p. 857.
- Herzberg, Harry A., New York, N. Y. Nut-lock. No. 1,123,531; Jan. 5; Gaz. vol. 210; p. 115.
- Herzberg, Martin, Leverkusen, near Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Azo dyestuffs. No. 1,126,466; Jan. 26; Gaz. vol. 210; p. 1269.
- Herzberg, Martin, Opladen, near Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Azo dye. No. 1,160,406; Nov. 16; Gaz. vol. 220; p. 786.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and G. Hoppe, Berlin-Treptow, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Greenish-blue dyes of the anthraquinone series. No. 1,131,516; Mar. 9; Gaz. vol. 212; p. 615.
- Herzbruch, Hugo, Datteln, Germany. Water-filter. No. 1,141,959; June 8; Gaz. vol. 215; p. 342.
- Herzfeld, Hedwig, and O. Hauser, Berlin, Germany. Manufacturing artificial fertilizer. No. 1,125,318; Jan. 19; Gaz. vol. 210; p. 825.
- Herzig, Stanis, and C. E. Everson, Billings, N. D. Yieldable reel for harvesters. No. 1,147,862; July 27; Gaz. vol. 216; p. 1077.
- Herzinger, Anton, Plainview, Nebr. Water-heater. No. 1,159,221; Nov. 2; Gaz. vol. 220; p. 283.
- Herzinger, Anton, Plainview, Nebr. Heater. No. 1,166,372; Dec. 28; Gaz. vol. 221; p. 1401.
- Herzinger, Carl B., Portland, Oreg. Gravity-carrier. No. 1,149,763; Aug. 10; Gaz. vol. 217; p. 560.
- Herzmark, Nicolas, Paris, France. Cable for the transmission of mechanical movements. (Reissue.) No. 13,884; Feb. 23; Gaz. vol. 211; p. 1232.
- Herzog, Felix B., deceased, New York, N. Y.; H. Herzog, executrix. Electric signaling apparatus and circuits therefor. No. 1,124,617; Jan. 12; Gaz. vol. 210; p. 540.
- Herzog, Felix B., deceased, New York, N. Y.; H. Herzog, executrix. Electric signaling apparatus and circuit. No. 1,126,007; Jan. 26; Gaz. vol. 210; p. 1103.
- Herzog, Felix B., deceased, New York, N. Y.; H. Herzog, executrix. Electric signaling apparatus and circuit. No. 1,127,761; Feb. 9; Gaz. vol. 211; p. 424.
- Herzog, Felix B., deceased, New York, N. Y.; H. Herzog, executrix. Electric signaling apparatus and circuits. No. 1,132,267; Mar. 16; Gaz. vol. 212; p. 920.
- Herzog, Felix B., deceased, New York, N. Y.; H. Herzog, executrix. Electric signaling apparatus. No. 1,154,184; Sept. 21; Gaz. vol. 218; p. 712.
- Herzog, Henrietta, executrix. (See Herzog, Felix B.)
- Herzog, Joseph L., New York, N. Y. Forming one-piece cuff-buttons. No. 1,148,317; July 27; Gaz. vol. 216; p. 1240.
- Herzog, Moses, Washington, D. C. Gripping device. No. 1,126,008; Jan. 26; Gaz. vol. 210; p. 1103.
- Herzog, Reginald O., Prague, Austria-Hungary, and A. Meier, Berlin, Germany. Leather substitute and making it. No. 1,141,545; June 1; Gaz. vol. 215; p. 164.
- Hesch, William, Santa Fe, N. Mex. Heater for automobiles. No. 1,127,621; Feb. 9; Gaz. vol. 211; p. 373.
- Hescock, Ethan N. (See Newhall and Hescock.)
- Hesketh, Joseph, and A. Olson, Portsmouth, Va. Shutter-holding device. No. 1,152,947; Sept. 7; Gaz. vol. 218; p. 209.
- Heslewood, William R., assignor, by mesne assignments, to Hydro Vacuum Smelting Co., Oakland, Cal. Smelting and incinerating. No. 1,160,509; Nov. 16; Gaz. vol. 220; p. 822.
- Hess, Aaron, New York, N. Y. Sifter-top. No. 1,157,537; Oct. 19; Gaz. vol. 219; p. 829.
- Hess-Bright Manufacturing Co., The. (See Batt, William L., assignor.)
- Hess-Bright Manufacturing Company, The. (See Hess, Henry, assignor.)
- Hess, Christian F., assignor to A. Nelson, Chicago, Ill. Tire-holder. No. 1,155,488; Oct. 5; Gaz. vol. 219; p. 58.
- Hess, Christian F., assignor to A. Nelson, Chicago, Ill. Valve-grinder. No. 1,155,489; Oct. 5; Gaz. vol. 219; p. 58.
- Hess, Christian F., assignor to A. Nelson, Chicago, Ill. Wind-shield ventilator-bracket. No. 1,160,170; Nov. 16; Gaz. vol. 220; p. 705.
- Hess, Christian F., assignor to A. Nelson, Chicago, Ill. Tire-holder. No. 1,165,777; Dec. 28; Gaz. vol. 221; p. 1188.
- Hess Dustless Mining Machine Company. (See Hess, Louis F., assignor.)
- Hess, Edward B., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Type-writing machine. No. 1,127,887; Feb. 9; Gaz. vol. 211; p. 470.
- Hess, Edward B., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Ribbon mechanism for type-writing machines. No. 1,130,401; Mar. 2; Gaz. vol. 212; p. 195.
- Hess, Edward B., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Type-writing machine. No. 1,138,106; May 4; Gaz. vol. 214; p. 136.
- Hess, Edward B., assignor to Royal Typewriter Company, Inc., New York, N. Y. Ribbon device of type-writing machines. No. 1,138,655; May 11; Gaz. vol. 214; p. 364.
- Hess, Edward B., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Envelop and card feed device for type-writing machines. No. 1,143,269; June 15; Gaz. vol. 215; p. 842.
- Hess, Edward B., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Writing-machine. No. 1,145,017; July 6; Gaz. vol. 216; p. 15.
- Hess, Edward B., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Type-writing machine. No. 1,165,170; Dec. 21; Gaz. vol. 221; p. 938.
- Hess, Edward B., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Type-writing machine. No. 1,165,171; Dec. 21; Gaz. vol. 221; p. 938.
- Hess, Edward B., Brooklyn, assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Card guiding and holding device for type-writing machines. No. 1,165,598; Dec. 28; Gaz. vol. 221; p. 1125.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Ribbon-spool for type-writing machines. No. 1,156,141; Oct. 12; Gaz. vol. 219; p. 310.
- Hess, Frank, Cincinnati, Ohio. Garment-pocket. No. 1,150,432; Aug. 17; Gaz. vol. 217; p. 858.
- Hess, Fritz. (See Wray and Hess.)
- Hess, George F., Pittsburg, Kans. Steam-pipe for locomotive-engines. No. 1,140,038; May 18; Gaz. vol. 214; p. 890.
- Hess, George H., La Grange, Ill. Grain-drier. No. 1,141,546; June 1; Gaz. vol. 215; p. 164.
- Hess, George H., La Grange Park, Ill. Apparatus for drying and cooling substances. No. 1,151,268; Aug. 24; Gaz. vol. 217; p. 1203.
- Hess, Harry, Glengarry, Mont. Railway-tie. No. 1,143,964; June 22; Gaz. vol. 215; p. 1106.
- Hess, Harry W., New York, N. Y. Acoustic instrument. No. 1,138,755; May 11; Gaz. vol. 214; p. 401.
- Hess, Henry, Philadelphia, Pa. Casting. No. 1,131,697; Mar. 16; Gaz. vol. 212; p. 712.
- Hess, Henry, Philadelphia, Pa. Gage. No. 1,157,389; Oct. 19; Gaz. vol. 219; p. 778.
- Hess, Henry, Philadelphia, Pa. Gage. No. 1,159,025; Nov. 2; Gaz. vol. 220; p. 212.
- Hess, Henry, Philadelphia, Pa. Gage. No. 1,163,921; Dec. 14; Gaz. vol. 221; p. 460.
- Hess, Henry, Wawa, Pa. Multigraphic apparatus. No. 1,149,261; Aug. 10; Gaz. vol. 217; p. 378.
- Hess, Henry, Wawa, Pa. Drive-chain. No. 1,151,587; Aug. 31; Gaz. vol. 217; p. 1358.
- Hess, Henry, Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company, Chuck. No. 1,131,696; Mar. 16; Gaz. vol. 212; p. 712.
- Hess, Henry, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Antifriction-bearing. No. 1,143,116; June 15; Gaz. vol. 215; p. 788.
- Hess, Henry, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Ball-bearing. No. 1,145,018; July 6; Gaz. vol. 216; p. 15.
- Hess, Henry, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Journal-bearing. No. 1,146,875; July 20; Gaz. vol. 216; p. 704.
- Hess, Henry, Philadelphia, Pa., assignor to Hess-Bright Manufacturing Company. Cage for antifriction-bearings. No. 1,151,589; Aug. 31; Gaz. vol. 217; p. 1359.
- Hess, Henry, Wawa, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Lubricating device for bearings. No. 1,140,375; May 25; Gaz. vol. 214; p. 1041.
- Hess, Henry, Wawa, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Shaft-bearing. No. 1,151,588; Aug. 31; Gaz. vol. 217; p. 1359.
- Hess, Henry, and G. M. Henrie, assignors to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Cage for ball-bearings. No. 1,145,019; July 6; Gaz. vol. 216; p. 15.

- Hess, John A., Philadelphia, Pa. File-cutting machine. No. 1,133,800; Mar. 30; Gaz. vol. 212; p. 1559.
- Hess, Kurt, Leverkusen, near Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. N-alkylated iminoketones. No. 1,158,496; Nov. 2; Gaz. vol. 220; p. 29.
- Hess, Louis F., Ansted, W. Va. Mining-machine. No. 1,147,724; July 27; Gaz. vol. 216; p. 1029.
- Hess, Louis F., assignor to Hesse Dustless Mining Machine Company, Ansted, W. Va. Mining-machine. No. 1,143,599; June 15; Gaz. vol. 215; p. 957.
- Hess, Ludwig, Berlin-Britz, Germany. Orthovanadic acid esters and their solutions. No. 1,133,961; Mar. 30; Gaz. vol. 212; p. 1613.
- Hess, Richard E., Milwaukee, Wis. Lamp-bracket. No. 1,164,283; Dec. 14; Gaz. vol. 221; p. 586.
- Hess, Rolland H., Los Angeles, Cal. Illuminating means for show-cases. No. 1,149,140; Aug. 3; Gaz. vol. 217; p. 229.
- Hess, Walter, Rapperswil, Switzerland. Stereoscopic picture. No. 1,128,979; Feb. 16; Gaz. vol. 211; p. 900.
- Hessberg, Max, London, England. Brewing. No. 1,146,793; July 20; Gaz. vol. 216; p. 676.
- Hesse, Frank C., Portland, Oreg. Folding camera. No. 1,123,740; Jan. 5; Gaz. vol. 210; p. 185.
- Hesse, Herman, Easton, Pa. Letter-opener. No. 1,152,628; Sept. 7; Gaz. vol. 218; p. 91.
- Hesse, John J., assignor of one-half to W. A. Connelly, Boston, Mass. Resilient wheel. No. 1,134,199; Apr. 6; Gaz. vol. 213; p. 42.
- Hesse, John J., and L. Stanek, Boston, Mass., assignors to Hesse Motion Picture Machine Company. Driving mechanism. No. 1,162,922; Dec. 7; Gaz. vol. 221; p. 65.
- Hesse Motion Picture Machine Company. (See Hesse and Stanek, assignors.)
- Hessel, James T. (See Manwaring and Hessel.)
- Hesseliuss, Peter, assignor of one-half to A. G. Dahlquist, Chicago, Ill. Manually-controlled phonographic mechanism. No. 1,132,092; Mar. 16; Gaz. vol. 212; p. 855.
- Hesselman, Knut J. E., Stockholm, Sweden. Internal-combustion engine. No. 1,162,775; Dec. 7; Gaz. vol. 221; p. 15.
- Hesselmeyer, Arthur C., Chicago, Ill. Pure kieselsuhr brick and making the same. No. 1,143,826; June 22; Gaz. vol. 215; p. 1058.
- Hester, J. M. (See Clifton, Emmett H., assignor.)
- Hester, James H., C. K. Beck, and P. F. Dost, Louisville, Ky. Convertible furniture. No. 1,160,078; Nov. 9; Gaz. vol. 220; p. 618.
- Hester, Kerty W., Mumfordsville, Ky. Combined cotton-holder and massage device. No. 1,158,214; Oct. 26; Gaz. vol. 219; p. 1128.
- Hesterly, William L., Morgan City, La. Machine for catching insects. No. 1,156,778; Oct. 12; Gaz. vol. 219; p. 531.
- Hetherington, Arthur F., Franklin township, Somerset county, N. J. Film-winder. No. 1,136,335; Apr. 20; Gaz. vol. 213; p. 879.
- Hetherington, Arthur F., New York, N. Y. Cigarette-package. No. 1,138,382; May 4; Gaz. vol. 214; p. 233.
- Hetherington, Arthur F., New York, N. Y. Safety coupling-release system for railway-trains. No. 1,141,393; June 1; Gaz. vol. 215; p. 110.
- Hetherington, Henry A. (See Ricardo and Hetherington.)
- Hetherington, John, Newark, N. J., and C. E. Chapin, New York, N. Y.; said Hetherington assignor to said Chapin. Pigtail-brush. No. 1,155,063; Sept. 28; Gaz. vol. 218; p. 1042.
- Hetherington, Robert. (See Jarvis, Clarence E., assignor.)
- Hetrick, Frank S., Fortville, Ind. Clothes-line. No. 1,152,948; Sept. 7; Gaz. vol. 218; p. 209.
- Hettel, Lillian B., Rochester, N. Y. Sauce-strainer. No. 1,148,384; July 27; Gaz. vol. 216; p. 1264.
- Hettesheimer, Henry C., Steelville, Ill. Coop. No. 1,135,583; Apr. 13; Gaz. vol. 213; p. 575.
- Hettinger, Carl F., Boston, Mass. Rotary compressor. No. 1,136,957; Apr. 27; Gaz. vol. 213; p. 1137.
- Hettrick, Francis M., Yelm, Wash. Lock. No. 1,141,797; June 1; Gaz. vol. 215; p. 249.
- Hetts, Charles V. (See Porter, Joseph Y., assignor.)
- Hetzel, William H., Los Angeles, Cal. Hose-holder. No. 1,128,248; Feb. 9; Gaz. vol. 211; p. 595.
- Hetzner, Frank J., Delaware, Ohio. Rack. No. 1,163,821; Dec. 14; Gaz. vol. 221; p. 428.
- Heubach, Otto, assignor to Fried. Krupp, Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Ammunition-vehicle. No. 1,160,713; Nov. 16; Gaz. vol. 220; p. 899.
- Heulings, Samuel M., Haddonfield, N. J. Pasteurizing milk or other fluids. No. 1,150,269; Aug. 17; Gaz. vol. 217; p. 803.
- Heupel, Herman A., Chacelroi, assignor to Macbeth-Evans Company, Pittsburgh, Pa. Process and apparatus for treating pressed glass articles. No. 1,134,200; Apr. 6; Gaz. vol. 213; p. 42.
- Heuser, Franz, Mülheim-Ruhr-Styrum, Germany, assignor, by mesne assignments, to Locomotive Superheater Company, New York, N. Y. Making return-bends. No. 1,153,224; Sept. 14; Gaz. vol. 218; p. 341.
- Heuser, Frederick O., Chicago, Ill., assignor, by mesne assignments, to W. R. Heath, Buffalo, N. Y. Accounting system. No. 1,147,920; July 20; Gaz. vol. 216; p. 756.
- Heuser, Frederick O., Chicago, Ill., assignor, by mesne assignments, to W. R. Heath, Buffalo, N. Y. Accounting system. No. 1,157,625; Oct. 19; Gaz. vol. 219; p. 856.
- Heusler, Frederick K. (See Bode, Peter J., assignor.)
- Heusser, Julius, Monroe, Wis. Hay-fork. No. 1,146,936; July 20; Gaz. vol. 216; p. 727.
- Heusser, Julius, Monroe, Wis. Hook for use on hay-forks. No. 1,159,222; Nov. 2; Gaz. vol. 220; p. 283.
- Heusser, Julius, Monroe, Wis. Hay-fork. No. 1,165,504; Dec. 28; Gaz. vol. 221; p. 1092.
- Heusser, William. (See Kilwinski, Frank H., assignor.)
- Hewes, Ernest A., Eskbank, Dalkeith, Scotland. Dental vulcanizing-flask. No. 1,152,317; Aug. 31; Gaz. vol. 217; p. 1610.
- Hewett, Henry P., Spokane, Wash. Power transmission. No. 1,145,893; July 13; Gaz. vol. 216; p. 340.
- Hewett, William S., Minneapolis, Minn. Culvert. No. 1,144,200; June 22; Gaz. vol. 215; p. 1191.
- Hewitt, Charles E., J. Bernor, and F. J. Bacon, Forestdale, Vt. Lawn-mower. No. 1,130,283; Mar. 2; Gaz. vol. 212; p. 154.
- Hewitt Company, The. (See Batten, Percy H., assignor.)
- Hewitt, Daniel, Tyler, Tex. Cotton-boll picker. No. 1,138,952; May 11; Gaz. vol. 214; p. 470.
- Hewitt, Edgar M., Gettysburg, Pa. Tape-clamp. No. 1,140,820; May 25; Gaz. vol. 214; p. 1196.
- Hewitt, Edward R., Midvale, N. J. Tire. No. 1,135,183; Apr. 13; Gaz. vol. 213; p. 436.
- Hewitt, Edward R., Ringwood, N. J., assignor to Hewitt Motor Company, New York, N. Y. Engine-crank casing. No. 1,135,524; Apr. 13; Gaz. vol. 213; p. 553.
- Hewitt, Edward R., Midvale, N. J., assignor to International Motor Company, New York, N. Y. Governor. No. 1,148,318; July 27; Gaz. vol. 216; p. 1241.
- Hewitt, Edward R., Midvale, N. J., and A. F. Masury, assignors to International Motor Company, New York, N. Y. Internal-combustion engine. No. 1,148,774; Aug. 3; Gaz. vol. 217; p. 105.
- Hewitt, Edward R., Midvale, N. J., and A. F. Masury, assignors to International Motor Company, New York, N. Y. Oiling system for internal-combustion engines. No. 1,157,390; Oct. 19; Gaz. vol. 219; p. 779.
- Hewitt, Herbert H. (See Sill, Samuel J., assignor.)
- Hewitt, Herbert H., Buffalo, N. Y. Car-truck. No. 1,123,293; Jan. 5; Gaz. vol. 210; p. 31.
- Hewitt, Herbert H., Buffalo, N. Y. Car-truck. No. 1,130,730; Mar. 9; Gaz. vol. 212; p. 344.
- Hewitt, Herbert H., Buffalo, N. Y. Casting-machine. No. 1,158,921; Nov. 2; Gaz. vol. 220; p. 179.
- Hewitt, Herbert H., and C. H. Paeplow, Jr., Buffalo, N. Y. Hose-coupling. No. 1,129,979; Mar. 2; Gaz. vol. 212; p. 49.
- Hewitt, Horace B., Indianapolis, Ind. Means for holding wooden articles while being shaped. No. 1,148,899; Aug. 3; Gaz. vol. 217; p. 147.
- Hewitt, Horace B., Indianapolis, assignor of one-half to North Indianapolis Cradle Works, North Indianapolis, Ind. Scythe-sheath. No. 1,133,376; Mar. 30; Gaz. vol. 212; p. 1407.
- Hewitt, Horace B., Indianapolis, assignor of one-half to North Indianapolis Cradle Works, North Indianapolis, Ind. Scythe-sheath. No. 1,133,473; Mar. 30; Gaz. vol. 212; p. 1440.
- Hewitt, James M., Hale, England. Friction-clutch. No. 1,143,908; June 22; Gaz. vol. 215; p. 1086.
- Hewitt, John L., Providence, R. I. Micrometric protractor. No. 1,123,294; Jan. 5; Gaz. vol. 210; p. 31.
- Hewitt, Leo A. (See O'Brien and Hewitt.)
- Hewitt Motor Company. (See Hewitt, Edward R., assignor.)
- Hewitt, Peter C., New York, N. Y. Ventilating apparatus and method. No. 1,133,027; Mar. 23; Gaz. vol. 212; p. 1248.
- Hewitt, Peter C., Ringwood Manor, N. J. Balloon and analogous device. No. 1,134,386; Apr. 6; Gaz. vol. 213; p. 110.
- Hewitt, Peter C., Ringwood Manor, N. J. Gliding craft. No. 1,164,346; Dec. 14; Gaz. vol. 221; p. 609.
- Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Method of and apparatus for translating electrical variations. No. 1,144,596; June 29; Gaz. vol. 215; p. 1354.
- Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Low-resistance vapor electric device. No. 1,156,227; Oct. 12; Gaz. vol. 219; p. 337.
- Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. High-tension converter system. No. 1,161,670; Nov. 23; Gaz. vol. 220; p. 1280.
- Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Directional-current arrester. No. 1,163,664; Dec. 14; Gaz. vol. 221; p. 369.

Alphabetical list of patentees—Continued.

- Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Co., Hoboken, N. J. Protecting device for vapor apparatus. No. 1,163,665; Dec. 14; Gaz. vol. 221; p. 369.
- Hewitt, Peter C., Ringwood Manor, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Lighting. No. 1,150,118; Aug. 17; Gaz. vol. 217; p. 748.
- Hewitt, Peter C., Ringwood Manor, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Controlling means for vapor apparatus. No. 1,156,228; Oct. 12; Gaz. vol. 219; p. 338.
- Hewitt, Peter C., Ringwood Manor, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Means for suppressing the resistance of the negative-electrode flame in vapor electric apparatus. No. 1,157,779; Oct. 26; Gaz. vol. 219; p. 974.
- Hewitt, Peter C., Ringwood Manor, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. High-tension converter system. No. 1,161,820; Nov. 23; Gaz. vol. 220; p. 1331.
- Hewitt, Peter C., Ringwood Manor, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Vapor electric apparatus. No. 1,163,666; Dec. 14; Gaz. vol. 221; p. 370.
- Hewitt, Rudolph E., Alameda, and W. W. Whitmore, Oakland, Cal. Roller-bearing current-collector. No. 1,158,215; Oct. 26; Gaz. vol. 219; p. 1128.
- Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,155,814; Oct. 5; Gaz. vol. 219; p. 171.
- Hewlett, Maddra J., Kewanee, Ill. Water-supply apparatus. No. 1,125,319; Jan. 19; Gaz. vol. 210; p. 825.
- Hewson, Frank M., Houston, Tex. Measuring-machine. No. 1,149,442; Aug. 10; Gaz. vol. 217; p. 444.
- Hey, John G., assignor to Cincinnati Pulley Machinery Company, Cincinnati, Ohio. Belt-gearing for drill-presses and the like. No. 1,148,677; Aug. 3; Gaz. vol. 217; p. 70.
- Hey, Walter I., and Z. L. Coffin, Ardmore, S. D. Match-lighter. No. 1,132,342; Mar. 16; Gaz. vol. 212; p. 948.
- Heybach, Frederick J., assignor to The Unit Weighing and Packing System, Baltimore, Md. Machine for heading receptacles. No. 1,132,343; Mar. 16; Gaz. vol. 212; p. 948.
- Heyerdahl, Nils R. (See Thoresen and Falch, assignors.)
- Heyes, Charles. (See Yates and Heyes.)
- Heyl, Albert D., New York, N. Y., assignor to Quigley Furnace and Foundry Company. Pulverized-fuel-feeding device. No. 1,145,894; July 13; Gaz. vol. 216; p. 340.
- Heyl, Jacob, Buffalo, N. Y. Perforated music-sheet. No. 1,159,670; Nov. 9; Gaz. vol. 220; p. 473.
- Heyl & Patterson, Inc. (See Brown and Gaines, assignors.)
- Heyl, Paul R., New Rochelle, assignor to Commercial Research Company, New York, N. Y. Terminal for contact or spark devices. No. 1,166,129; Dec. 28; Gaz. vol. 221; p. 1312.
- Heylandt, Paul, assignor to Maschinen- und Apparate-Fabrik A. R. Ahrendt & Co., Berlin, Germany. Blasting-cartridge. No. 1,154,770; Sept. 28; Gaz. vol. 218; p. 943.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Lister. No. 1,125,528; Jan. 19; Gaz. vol. 210; p. 899.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Lister. No. 1,125,529; Jan. 19; Gaz. vol. 210; p. 900.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Drive-wheel mounting. No. 1,135,794; Apr. 13; Gaz. vol. 213; p. 648.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,148,088; July 27; Gaz. vol. 216; p. 1159.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. No. 1,155,569; Oct. 5; Gaz. vol. 219; p. 85.
- Heylman, Edward M., assignor to Rock Island Plow Company, Rock Island, Ill. Reversible disk harrow. No. 1,131,238; Mar. 9; Gaz. vol. 212; p. 518.
- Heylmann, Fred E. (See Underwood, Frank B., assignor.)
- Heylman, William R., Iola, Kans., assignor of one-half to E. B. Carney, Wheeling, W. Va. Magazine-pencil. No. 1,156,860; Oct. 12; Gaz. vol. 219; p. 561.
- Heyman, Albert A., assignor of one-half to T. T. Thomas, Baltimore, Md. Apparatus for reproducing base-ball games. No. 1,126,636; Jan. 26; Gaz. vol. 210; p. 1332.
- Heyman, Albert A., assignor to Universal Cigar Machinery Co., Inc., Baltimore, Md. Forming cigars. No. 1,152,022; Aug. 31; Gaz. vol. 217; p. 1509.
- Heyman, Arthur W., Northampton borough, Pa. Simultaneous production of soluble alkali hydroxids and cement-making material. No. 1,160,171; Nov. 16; Gaz. vol. 220; p. 706.
- Heyman, Arthur W., Northampton, Pa. Simultaneous production of soluble alkali compounds and cement-making materials. No. 1,160,172; Nov. 16; Gaz. vol. 220; p. 706.
- Heyman, Benjamin W., Philadelphia, Pa. Artificial snow. No. 1,162,060; Nov. 30; Gaz. vol. 220; p. 1462.
- Heyman, David, New York, N. Y. Toy cash-register. No. 1,141,547; June 1; Gaz. vol. 215; p. 164.
- Heyman, David, and T. R. Arden, New York, N. Y.; said Arden assignor to said Heyman. Pop-gun. No. 1,164,646; Dec. 21; Gaz. vol. 221; p. 754.
- Heyman, Michael, Cincinnati, Ohio. Neckwear. No. 1,137,486; Apr. 27; Gaz. vol. 213; p. 1329.
- Heyman, Moses D., New York, N. Y. Band-chuck. No. 1,158,216; Oct. 26; Gaz. vol. 219; p. 1128.
- Heyman, Samuel, New York, N. Y. Cord-lead. No. 1,138,476; May 4; Gaz. vol. 214; p. 266.
- Heymann, Edward and F. W., Boston, Mass. Internal combustion engine. No. 1,125,530; Jan. 19; Gaz. vol. 210; p. 900.
- Heymann, Frank W. (See Heymann, Edward and F. W.)
- Heymann, Joseph L., Fayetteville, Tenn. Spring-wheel. No. 1,123,875; Jan. 5; Gaz. vol. 210; p. 231.
- Heyn, Edmund C., Catonsville, Md., assignor to The B. V. D. Company, New York, N. Y. Garment. (Reissue.) No. 13,983; Sept. 21; Gaz. vol. 218; p. 856.
- Heynan, Hans, Nuremberg, Germany. Cutting-disk for metal-cutting machines. No. 1,123,532; Jan. 5; Gaz. vol. 210; p. 115.
- Heynan, Hans, Nuremberg, Germany. Cutting-disk for metal-cutting machines. No. 1,129,980; Mar. 2; Gaz. vol. 212; p. 50.
- Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-cutting die. No. 1,124,739; Jan. 12; Gaz. vol. 210; p. 584.
- Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grinding-machine. No. 1,127,888; Feb. 9; Gaz. vol. 211; p. 471.
- Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Preparing outsoles. No. 1,137,618; Apr. 27; Gaz. vol. 213; p. 1373.
- Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting-die. No. 1,165,599; Dec. 28; Gaz. vol. 221; p. 1125.
- Heywood Brothers & Wakefield Company. (See Horton, Albert F., assignor.)
- Heywood Brothers and Wakefield Company. (See Kinner and Paine, assignors.)
- Heywood, Charles H., and D. E. Travis, Waukegan, Ill., assignors to United States Envelope Co., Springfield, Mass. Feeding mechanism for paper or cardboard. No. 1,131,836; Mar. 16; Gaz. vol. 212; p. 764.
- Heywood, Francis C., assignor to Whitmore Manufacturing Company, Holyoke, Mass. Apparatus for stirring and supplying color to paper-coating machines. No. 1,164,812; Dec. 21; Gaz. vol. 221; p. 812.
- Hiatt, Amos, Ackworth, N. D. Cattle-tie. No. 1,129,093; Feb. 23; Gaz. vol. 211; p. 975.
- Hiatt, William F., Indianapolis, Ind. Lifting-jack. No. 1,159,938; Nov. 9; Gaz. vol. 220; p. 571.
- Hiatt, William F., assignor, by mesne assignments, to Charles E. Benefield Company, Indianapolis, Ind. Lifting-jack. No. 1,152,507; Sept. 7; Gaz. vol. 218; p. 45.
- Hibbard, Dalvin C., Seattle, Wash. Fire-escape. No. 1,123,295; Jan. 5; Gaz. vol. 210; p. 32.
- Hibbard, Edward R., Chicago, Ill. Lantern. No. 1,156,229; Oct. 12; Gaz. vol. 219; p. 338.
- Hibbard, Robert L. (See Carpenter and Hibbard.)
- Hibbard, Robert L. (See Carpenter, Hibbard, and Warner.)
- Hibbard, Robert L., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Fluid-actuated clutch. No. 1,135,525; Apr. 13; Gaz. vol. 213; p. 553.
- Hibbard, Walter R. (See Lindsay and Hibbard.)
- Hibben, Samuel E. (See Wolhaupter, Warren F., assignor.)
- Hibbert, Harold, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Condensing polyhydric alcohols. No. 1,126,467; Jan. 26; Gaz. vol. 210; p. 1269.
- Hibbert, Harold, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Condensation. No. 1,164,647; Dec. 21; Gaz. vol. 221; p. 754.
- Hibbert, Harold, assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of organic solvents. No. 1,158,217; Oct. 26; Gaz. vol. 219; p. 1129.
- Hibbets, Joseph R., Trenton, N. J. Barber's chair. No. 1,138,477; May 4; Gaz. vol. 214; p. 266.
- Hibbs, Eugene, Beaver Dam, Ky. Self-cleaning comb. No. 1,135,184; Apr. 13; Gaz. vol. 213; p. 436.
- Hibbs, William, Plano, Ill. Driving mechanism for corn-harvesters and the like. No. 1,142,036; June 8; Gaz. vol. 215; p. 371.
- Hibner, De Los E., and F. W. Linaker, assignors to The Vulcan Soot Cleaner Co., of Pittsburg, Pa. Dubois, Pa. Boiler-flue-cleaner system. No. 1,144,543; June 29; Gaz. vol. 215; p. 1336.
- Hibner, Frank, North Platte, Nebr. Rotary engine. No. 1,124,435; Jan. 12; Gaz. vol. 210; p. 474.
- Hibner, Joseph F., Hamilton, Ohio, assignor, by mesne assignments, to The Automatic Cashier Corporation. Subtractive money-changer. No. 1,123,296; Jan. 5; Gaz. vol. 210; p. 32.
- Hice, George S., Brooklyn, N. Y. Fastener. No. 1,163,088; Dec. 7; Gaz. vol. 221; p. 123.

- Hick, Harry J., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing ap-
pliance. No. 1,139,677; May 18; Gaz. vol. 214; p. 762.
- Hick, Harry J., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing
appliance. No. 1,157,159; Oct. 19; Gaz. vol. 219;
p. 695.
- Hick, Harry J., assignor, by mesne assignments, to The
McCaskey Register Company, Alliance, Ohio. Filing
appliance. No. 1,160,173; Nov. 16; Gaz. vol. 220; p.
706.
- Hick, Harry J., assignor, by mesne assignments, to The
McCaskey Register Company, Alliance, Ohio. Filing
appliance. No. 1,160,407; Nov. 16; Gaz. vol. 220; p.
786.
- Hick, Harry J., assignor, by mesne assignments, to The
McCaskey Register Company, Alliance, Ohio. Filing
appliance. No. 1,165,972; Dec. 28; Gaz. vol. 221; p.
1255.
- Hick, Harry J., Alliance, Ohio, assignor, by mesne assign-
ments, to The Lamson Company, Boston, Mass. Propel-
ling device for store-service apparatus. No. 1,146,160;
July 13; Gaz. vol. 216; p. 435.
- Hick, Harry J., and A. F. Staples, assignors, by mesne
assignments, to The McCaskey Register Company, Al-
liance, Ohio. Filing appliance. No. 1,157,160; Oct. 19;
Gaz. vol. 219; p. 696.
- Hickcox, Roy R. (See Perkins and Hickcox.)
- Hickerson, George X., and G. C. Homenway, New York,
N. Y., assignors to Hampden Manufacturing Company,
Inc. Suspending device. No. 1,147,863; July 27; Gaz.
vol. 216; p. 1077.
- Hickey, Artemas S., Los Angeles, Cal. Bulletin-board.
No. 1,128,249; Feb. 9; Gaz. vol. 211; p. 595.
- Hickey Condenser Company. (See Hickey, William J., as-
signor.)
- Hickey, Elmer O., New Brighton, Pa. Boring-tool. No.
1,162,163; Nov. 30; Gaz. vol. 220; p. 1499.
- Hickey, Freeman Co. (See Loewenguth, Julius C., as-
signor.)
- Hickey, James T., Raritan, N. J., assignor to Hickey and
Schneider, New York, N. Y. Means for protecting elec-
tric conductors. No. 1,147,021; July 20; Gaz. vol. 216;
p. 756.
- Hickey, Michel W., Rochester, N. Y. Vehicle-tire. No.
1,137,217; Apr. 27; Gaz. vol. 213; p. 1269.
- Hickey and Schneider. (See Hickey, James T., assignor.)
- Hickey, William B., Sapulpa, Okla. Cotton-stalk cutter.
No. 1,129,675; Feb. 23; Gaz. vol. 211; p. 1177.
- Hickey, William J., Reno, Nev. Cattle-guard. No.
1,125,095; Jan. 19; Gaz. vol. 210; p. 745.
- Hickey, William J., San Francisco, Cal., assignor, by mesne
assignments, to Hickey Condenser Company. Cooling
attachment for radiators. No. 1,139,034; May 11; Gaz.
vol. 214; p. 501.
- Hickish, Robert S., Tuckahoe, assignor of one-half to E. M.
Benford, one-fourth to D. Benford, and one-fourth to
S. Benford, Mount Vernon, N. Y. Grease-gun. No.
1,139,865; May 18; Gaz. vol. 214; p. 828.
- Hickler, Thomas F., *et al.* (See Forest, Francis A., as-
signor.)
- Hickman, Patrick H., Irvington, N. J. Interchangeable
last. No. 1,125,096; Jan. 19; Gaz. vol. 210; p. 745.
- Hickman, Raymond L., Portland, Oreg. Stove-lid lifter.
No. 1,131,517; Mar. 9; Gaz. vol. 212; p. 615.
- Hickok, Arthur S. (See Myers, Hubert A., assignor.)
- Hickok, Barton H. and F. C. Eldon, Mo. Truss. No.
1,160,408; Nov. 16; Gaz. vol. 220; p. 787.
- Hickok, Frederick C. (See Hickok, Barton H. and F. C.)
- Hickok, George B., deceased, Roselle Park, N. J.; M. L.
Hickok, administratrix. Spring vehicle-wheel. No.
1,151,878; Aug. 31; Gaz. vol. 217; p. 1460.
- Hickok, Mary L., administratrix. (See Hickok, George B.)
- Hicks, A. C., *et al.* (See Hoggland, Elery M., assignor.)
- Hicks, Charles L., Liberty, S. C. Combination drip-pn and
wiper. No. 1,129,390; Feb. 23; Gaz. vol. 211; p. 1079.
- Hicks, Charles T., *et al.* (See Witter, Archie C., as-
signor.)
- Hicks, George J., Saginaw, Mich., assignor to Richard &
Otto Werner, Cannstatt, Germany. Proofing-machine.
No. 1,127,000; Feb. 2; Gaz. vol. 211; p. 118.
- Hicks, Harrison W., Huntington, Ind. Piano-hammer.
No. 1,160,409; Nov. 16; Gaz. vol. 220; p. 787.
- Hicks, Harry, *et al.* (See Witter, Archie C., assignor.)
- Hicks, Harry H. (See Youngkin and Hicks.)
- Hicks, Henry L. (See Rives and Nabors, assignors.)
- Hicks, Howard W., Denver, Colo. Fountain-brush. No.
1,151,100; Aug. 24; Gaz. vol. 217; p. 1146.
- Hicks, Irl R., Hallsville, Mo. Priming spark-plug. No.
1,152,177; Aug. 31; Gaz. vol. 217; p. 1562.
- Hicks, John A., Summit, N. J., assignor to Auto Stopper
Company. Bottle filling and capping machine. No.
1,162,776; Dec. 7; Gaz. vol. 221; p. 15.
- Hicks, Laura M., Bloomington, Ind. Washmitt. No.
1,132,475; Mar. 16; Gaz. vol. 212; p. 995.
- Hicks, Laura M., Bloomington, Ind. Washmitt. (Re-
issue.) No. 13,977; Sept. 14; Gaz. vol. 218; p. 575.
- Hicks, Robert, Rossetti, Saskatchewan, Canada. Manure-
carrier. No. 1,144,544; June 20; Gaz. vol. 215; p.
1336.
- Hicks, Yale. (See Luthy, Joseph O., assignor.)
- Hidden, Charles P., New York, N. Y. Battery-separator.
No. 1,132,183; Mar. 16; Gaz. vol. 212; p. 888.
- Hidden, Charles P., Winchester, assignor to The Lamson
Company, Boston, Mass. Despatch system. No.
1,142,429; June 8; Gaz. vol. 215; p. 510.
- Hidden, Charles P., Winchester, assignor to The Lamson
Company, Boston, Mass. Pneumatic-despatch-tube ap-
paratus. No. 1,151,570; Sept. 21; Gaz. vol. 218; p. 845.
- Hidden, Charles P., Brookline, assignor to The Lamson
Company, Boston, Mass. Coin-handling apparatus. No.
1,143,827; June 22; Gaz. vol. 215; p. 1039.
- Hiddleston, Philip G., Salem, Ohio. Carbureter. No.
1,123,876; Jan. 5; Gaz. vol. 210; p. 231.
- Hide-ite Leather Company. (See Clapp, Albert L., as-
signor.)
- Hider, Paul, Pittsburgh, assignor of one-half to A. Nagy,
Bishop, Pa. Rail-joint. No. 1,162,358; Nov. 30; Gaz.
vol. 220; p. 1566.
- Hidoux, Georges, Paris, France. Extracting or sorting
combustible matter from refuse. No. 1,142,706; June
8; Gaz. vol. 215; p. 604.
- Hieatzman, George M., Baltimore county, and W. I. Hieatz-
man, Baltimore, Md. Separating ovarian product from
its surrounding membrane. No. 1,163,538; Dec. 7; Gaz.
vol. 221; p. 280.
- Hieatzman, William I. (See Hieatzman, George M. and
W. I.)
- Hiebert, Jacob J., Mountain Lake, Minn. Water-heater.
No. 1,158,806; Nov. 2; Gaz. vol. 220; p. 140.
- Hiecke, William, Jr. (See Stevenson, Fuchs, and Hiecke.)
- Hieronymus, George L., Winchester, Ill. Nut-lock. No.
1,155,356; Oct. 5; Gaz. vol. 219; p. 11.
- Hiester, Harry M. and W. C., Dayton, Ohio. Refrigerat-
ing apparatus. No. 1,134,269; Apr. 6; Gaz. vol. 213;
p. 68.
- Hiester, William C. (See Hiester, Harry M. and W. C.)
- Higbee, Charles E., Grand Prairie, Alberta, Canada.
Writing device. No. 1,143,393; June 15; Gaz. vol.
215; p. 887.
- Higbee, Roy E., Windsor, Mo. Device for use in wiping
pipe-joints. No. 1,157,391; Oct. 19; Gaz. vol. 219;
p. 779.
- Higel, Otto, Toronto, Ontario, Canada. Pedal. No.
1,138,563; May 4; Gaz. vol. 214; p. 293.
- Higel, Otto, Toronto, Ontario, Canada. Operating device
for player-pianos. No. 1,155,570; Oct. 5; Gaz. vol. 219;
p. 85.
- Higel, Otto, Toronto, Ontario, Canada. Pneumatic action
for player-pianos. No. 1,155,571; Oct. 5; Gaz. vol. 219;
p. 85.
- Higel, Otto, Toronto, Ontario, Canada, assignor to C.
Kurtzmann & Co., Buffalo, N. Y. Fall-board for pianos
and the like. No. 1,137,318; Apr. 27; Gaz. vol. 213;
p. 1269.
- Higgin, Henry, assignor of one-half to The Higgin Man-
ufacturing Company, Newport, Ky. Window-venti-
lator. No. 1,137,139; Apr. 27; Gaz. vol. 213; p. 1204.
- Higgin, Henry, assignor to The Higgin Manufacturing
Company, Newport, Ky. Window-screen attachment.
No. 1,140,376; May 25; Gaz. vol. 214; p. 1041.
- Higgin, Henry, assignor of one-half to The Higgin Manu-
facturing Company, Newport, Ky. Window-screen.
No. 1,143,965; June 22; Gaz. vol. 215; p. 1106.
- Higgin, Henry, assignor of one-half to The Higgin Manu-
facturing Company, Newport, Ky. Weather-strip. No.
1,145,196; July 6; Gaz. vol. 216; p. 78.
- Higgin, Henry, and C. Traut, assignors to The Higgin
Manufacturing Company, Newport, Ky. Screen for re-
volving windows. No. 1,165,670; Dec. 28; Gaz. vol.
221; p. 1151.
- Higgin, Henry, and C. Traut, assignors to The Higgin
Manufacturing Company, Newport, Ky. Screen for re-
volving windows. No. 1,165,671; Dec. 28; Gaz. vol.
221; p. 1152.
- Higgin Manufacturing Company, The. (See Higgin,
Henry, assignor.)
- Higginbotham, The. (See Higgin and
Traut, assignors.)
- Higginbotham, Allen C., Charleston, W. Va. Bolting-
cloth cleaner. No. 1,142,096; June 8; Gaz. vol. 215;
p. 393.
- Higginbotham, Frank C., *et al.* (See Mallett, Charles J.,
assignor.)
- Higgins, Albert G., Kansas City, Mo. Concrete window-
sash. No. 1,147,090; July 20; Gaz. vol. 216; p. 780.
- Higgins, Albert G., assignor of one-half to R. M. Havens,
Kansas City, Mo. Hollow concrete block. No.
1,148,228; July 27; Gaz. vol. 216; p. 1207.
- Higgins, Albert G., assignor to The Trusswall Manufac-
turing Company, Kansas City, Mo. Apparatus for con-
structing plastic columns. No. 1,156,077; Oct. 12; Gaz.
vol. 219; p. 288.
- Higgins, Albert L., Bar Harbor, Me. Milk-bottle-top ex-
tractor. No. 1,142,707; June 8; Gaz. vol. 215; p. 604.
- Higgins, Arthur H., assignor to Minerals Separation Ameri-
can Syndicate (1913) Limited, London, England. Appa-
ratus for ore concentration. No. 1,155,816; Oct. 5;
Gaz. vol. 219; p. 172.
- Higgins, Arthur H., and W. W. Stenning, assignors to
Minerals Separation Limited, London, England. Appa-
ratus for ore concentration. No. 1,155,815; Oct. 5; Gaz.
vol. 219; p. 171.

Alphabetical list of patentees—Continued.

- Higgins, Arthur P. (See Kinnear, Robert S., assignor.)
- Higgins, Fred B., Boothbay Harbor, Me. Shipping-package for lobsters. No. 1,152,629; Sept. 7; Gaz. vol. 218; p. 92.
- Higgins, Herbert E., Cape Elizabeth, Me. Combined shingling-gage and straight-edge. No. 1,137,619; Apr. 27; Gaz. vol. 213; p. 1373.
- Higgins, John M., Youngstown, Ohio. Steam-trap. No. 1,156,684; Oct. 12; Gaz. vol. 219; p. 499.
- Higgins, Joseph I., East Rockaway, N. Y. Folding bed. No. 1,137,402; Apr. 27; Gaz. vol. 213; p. 1301.
- Higgins, Patrick F., Fall River, Mass. Loom-shuttle. No. 1,141,186; June 1; Gaz. vol. 215; p. 34.
- Higgins, Sidney J., Thorsby, Ala. Cultivator. No. 1,133,140; Mar. 23; Gaz. vol. 212; p. 1287.
- Higgins, Thomas, *et al.* (See Jobke, August F., assignor.)
- Higgins, Thomas P., and W. McDermott, New Brighton, N. Y. Dry-pipe valve. No. 1,161,671; Nov. 23; Gaz. vol. 220; p. 1280.
- Higgins, Virginia K., *et al.* (See Lorenz, Friedrich, assignor.)
- Higgins, William E., Milwaukee, Wis. Tuning-slide and stop for trumpets, &c. No. 1,141,960; June 8; Gaz. vol. 215; p. 342.
- Higgins, William H. C., Jr., assignor to M. Rumely Company, Laporte, Ind. Carbureter. No. 1,145,990; July 13; Gaz. vol. 216; p. 375.
- Higgins, William H. C., Jr., assignor to M. Rumely Company, Laporte, Ind. Carbureter. No. 1,154,630; Sept. 28; Gaz. vol. 218; p. 895.
- Higgins, William H. C., Jr., assignor to M. Rumely Company, Laporte, Ind. Carbureter. No. 1,157,868; Oct. 26; Gaz. vol. 219; p. 1006.
- Higgs, Wallace J., Lehi, Utah. Puncture-proof wheel. No. 1,152,508; Sept. 7; Gaz. vol. 218; p. 46.
- Higgs, Wallace J., Lehi, Utah. Tool and handle fastener. No. 1,164,092; Dec. 14; Gaz. vol. 221; p. 521.
- High, Frederick H., Fort Worth, Tex. Piston-stock gun. No. 1,150,763; Aug. 17; Gaz. vol. 217; p. 973.
- High, James P., and H. C. Rathbun, Fairview, Okla. Oil-burning stove. No. 1,137,970; May 4; Gaz. vol. 214; p. 87.
- High, James P., and H. C. Rathbun, Fairview, Okla. Oil-burning stove. No. 1,160,894; Nov. 16; Gaz. vol. 220; p. 960.
- Higham Manufacturing Company. (See Grote and Rothkopf, assignors.)
- Highers, Charles, Sheridan, Ky., assignor of one-half to J. W. Behout, St. Louis, Mo. Collapsible poultry-crate. No. 1,120,676; Feb. 23; Gaz. vol. 211; p. 1177.
- Highfield, Frank W., Caversham, England. Reduction of metallic oxides and the like. No. 1,153,786; Sept. 14; Gaz. vol. 218; p. 541.
- Highland, Frederick J. (See Dudley and Plastow, assignors.)
- Highley, John P., assignor of one-fourth to J. Ruggaber and one-fourth to F. M. Anderson, St. Louis, Mo. Piston-ring. No. 1,161,050; Nov. 23; Gaz. vol. 220; p. 1061.
- Higley, Asaph M., Cummings, Kans. Drag-saw. No. 1,131,239; Mar. 9; Gaz. vol. 212; p. 519.
- Higley Machine Company. (See Juengst, Charles A., assignor.)
- Higley, Pratt H., assignor of one-half to C. E. Stewart, Gillespieville, Ohio. Shoe-cleaner. No. 1,136,528; Apr. 20; Gaz. vol. 213; p. 949.
- Hilh, Isaac, Baltimore, Md. Dumping-wagon. No. 1,136,800; Apr. 20; Gaz. vol. 213; p. 1045.
- Hilbert, John N. J., Chicago, Ill., assignor to J. P. Bird, New York, N. Y. Box-making machine. No. 1,131,131; Mar. 9; Gaz. vol. 212; p. 481.
- Hilbert, John N. J., Chicago, Ill., assignor to J. P. Bird, New York, N. Y. Box-making machine. No. 1,131,132; Mar. 9; Gaz. vol. 212; p. 482.
- Hilbish, John E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Universal cord-circuit. No. 1,127,437; Feb. 9; Gaz. vol. 211; p. 311.
- Hildebrand, George F., San Francisco, Cal. Sole-leather cutting and skiving machine. No. 1,131,607; Mar. 9; Gaz. vol. 212; p. 647.
- Hildebrand, Harry D., assignor to Hope Engineering and Supply Company, Pittsburgh, Pa. Increasing the flow of gas and vapors from wells. No. 1,126,215; Jan. 26; Gaz. vol. 210; p. 1180.
- Hildebrandt, Henry F., Maxwell, Tex. Plow. No. 1,166,297; Dec. 28; Gaz. vol. 221; p. 1342.
- Hilden, Sam, Volga, S. D. Gate-operating means. No. 1,165,172; Dec. 21; Gaz. vol. 221; p. 939.
- Hildreth, Charles L. (See Price and Hildreth.)
- Hildreth, Daniel W., Jr., *et al.* (See Stevenson, Abraham C., assignor.)
- Hildreth, Herbert L. (See Woolf, Frank H., assignor.)
- Hiles, George H., Los Angeles, Cal. Stylus or needle for sound-reproducing machines. No. 1,149,514; Aug. 10; Gaz. vol. 217; p. 469.
- Hill, Aaron, Los Angeles, assignor of one-fourth to R. I. Blakeslee, Alhambra, Cal. Gang-drill. No. 1,133,243; Mar. 23; Gaz. vol. 212; p. 1323.
- Hill, Adelbert D., Excelsior Springs, Mo. Liquid-soap dispenser. No. 1,138,107; May 4; Gaz. vol. 214; p. 136.
- Hill, Arthur H., Birmingham, England. Small-arm. No. 1,165,256; Dec. 21; Gaz. vol. 221; p. 968.
- Hill, Charles A. (See Dalton and Hill.)
- Hill, Charles H., Lynn, Mass. Combination gang sole-mold. No. 1,136,336; Apr. 20; Gaz. vol. 213; p. 880.
- Hill, Charles W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electrode for arc-lights. No. 1,154,393; Sept. 21; Gaz. vol. 218; p. 786.
- Hill, Clement V., Trenton, N. J. Fastener for doors. No. 1,123,741; Jan. 5; Gaz. vol. 210; p. 186.
- Hill, Clement V., Trenton, N. J. Heater for brooders. No. 1,152,732; Sept. 7; Gaz. vol. 218; p. 129.
- Hill, Clement V., Trenton, N. J. Heat-regulator for brooders. No. 1,152,814; Sept. 7; Gaz. vol. 218; p. 160.
- Hill, Clement V., Trenton, N. J. Brooder-heater. No. 1,161,672; Nov. 23; Gaz. vol. 220; p. 1280.
- Hill Clutch Company, The. (See Smith, Harry J., assignor.)
- Hill, David K., *et al.* (See Beck, Marshall, assignor.)
- Hill, Dock, Rome, Ga. Nut-lock. No. 1,135,899; Apr. 13; Gaz. vol. 213; p. 686.
- Hill, Earl M., *et al.* (See Rood, Charles W., assignor.)
- Hill, Earl M., and G. W. Lupton, Dayton, Ohio. Rake. No. 1,125,531; Jan. 19; Gaz. vol. 210; p. 900.
- Hill, Ebenezer, South Norwalk, Conn. Calculating instrument. No. 1,145,020; July 6; Gaz. vol. 216; p. 16.
- Hill, Edwyn, San Antonio, Tex. Hammer. No. 1,141,638; June 1; Gaz. vol. 215; p. 196.
- Hill, Elert A. (See Elssner, John A., assignor.)
- Hill, Elijah R., New Albany, Miss. Combined plow and fertilizer-distributor. No. 1,125,021; Jan. 12; Gaz. vol. 210; p. 683.
- Hill, Elwyn G., Philadelphia, Pa. Car-fender. No. 1,151,684; Aug. 31; Gaz. vol. 217; p. 1391.
- Hill, Ernest R., East Orange, N. J. Automatic warning system for electric railways. No. 1,131,133; Mar. 9; Gaz. vol. 212; p. 482.
- Hill, Ernest R., East Orange, N. J. Pantograph-grounding circuits for electric railway-vehicles. No. 1,142,881; June 15; Gaz. vol. 215; p. 705.
- Hill, Ernest R., East Orange, N. J., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Trip-valve device. No. 1,133,644; Mar. 30; Gaz. vol. 212; p. 1503.
- Hill, Ernest R., East Orange, N. J., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Trip-valve device for air-brakes. No. 1,133,645; Mar. 30; Gaz. vol. 212; p. 1504.
- Hill, Ernest R., East Orange, N. J., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic train-stop. No. 1,138,216; May 4; Gaz. vol. 214; p. 173.
- Hill, Francis H., Jr., Leominster, Mass. Blind-fastener. No. 1,148,775; Aug. 3; Gaz. vol. 217; p. 106.
- Hill, George. (See Booser and Hill.)
- Hill, George, Milroy, Ind. Corn-topper. No. 1,130,085; Mar. 2; Gaz. vol. 212; p. 85.
- Hill, George, Arlington, Iowa. Olive-picker. No. 1,131,240; Mar. 9; Gaz. vol. 212; p. 519.
- Hill, George, Mayetta, Kans. Vehicle-seat. No. 1,161,051; Nov. 23; Gaz. vol. 220; p. 1061.
- Hill, George A., Sanford, Me. Adjustable threshold-transfer. No. 1,142,097; June 8; Gaz. vol. 215; p. 393.
- Hill, George H., Schenectady, N. Y., assignor to General Electric Company. Coasting-registering mechanism for electric cars. No. 1,133,028; Mar. 23; Gaz. vol. 212; p. 1248.
- Hill, George M., *et al.* (See Rood, Charles W., assignor.)
- Hill, George S., Stratford, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Buttonhole-sewing machine. No. 1,134,046; Mar. 30; Gaz. vol. 212; p. 1641.
- Hill, Harrison B., East Providence, R. I. Game apparatus. No. 1,156,006; Oct. 5; Gaz. vol. 219; p. 235.
- Hill, Harry M., Kirkwood, Mo. Lamp for stereopticons. No. 1,153,161; Sept. 7; Gaz. vol. 218; p. 280.
- Hill, Harry R., Stillwater, Minn. Wrench. No. 1,163,407; Dec. 7; Gaz. vol. 221; p. 235.
- Hill, Haven G., *et al.*, executors. (See Lovejoy, Alfred A.)
- Hill, Henderson F., Bloomfield, N. J., assignor to The American Hardware Corporation, New Britain, Conn. Panic-bolt construction. No. 1,141,338; June 1; Gaz. vol. 215; p. 89.
- Hill, Horace, Brooklyn, N. Y. Snow-removing machine. No. 1,131,378; Mar. 9; Gaz. vol. 212; p. 566.
- Hill, Horace C., assignor to The Akro-Agate Company, Clarksburg, W. Va. Machine for manufacturing spherical bodies. No. 1,164,718; Dec. 21; Gaz. vol. 221; p. 779.
- Hill, Howard V., assignor to Curtis & Jones Co., Reading, Pa. Heel-compressing machine. No. 1,127,001; Feb. 2; Gaz. vol. 211; p. 118.
- Hill, Hubbell & Co. (See Hubbell, Russell H., assignor.)
- Hill-Independent Mfg. Co. (See Hellings, Andrew J., assignor.)
- Hill-Independent Mfg. Co. (See Scotford, Louis K., assignor.)
- Hill, Irving. (See Morscher, Lawrence N., assignor.)
- Hill, Isaac B., Plainfield, N. J. Architectural terra-cotta construction. No. 1,134,741; Apr. 6; Gaz. vol. 213; p. 240.

- Hill, J. Clinton, *et al.* (See Minsker, Charles A., assignor.)
- Hill, James B. (See Novoson and Hill.)
- Hill, James B., Raceland, La. Roller-bearing apron-wheel. No. 1,128,138; Feb. 9; Gaz. vol. 211; p. 558.
- Hill, James G., Lindsay, Cal. Composition of matter for destroying germs or insects. No. 1,141,961; June 8; Gaz. vol. 215; p. 342.
- Hill, James H., assignor to Defiance Lantern & Stamping Co., Rochester, N. Y. Lantern. No. 1,130,731; Mar. 9; Gaz. vol. 212; p. 345.
- Hill, James H., Rochester, assignor to Embury Manufacturing Co., Warsaw, N. Y. Lantern-ball holder. No. 1,146,876; July 20; Gaz. vol. 216; p. 705.
- Hill, John, Story City, Iowa. Ice-sawing machine. No. 1,162,061; Nov. 30; Gaz. vol. 220; p. 1462.
- Hill, John, assignor to Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii. Feeding device for pineapple-slicers. No. 1,130,819; Mar. 9; Gaz. vol. 212; p. 374.
- Hill, John P., Pulaski, Va. Collapsible turn-table. No. 1,161,673; Nov. 23; Gaz. vol. 220; p. 1281.
- Hill, John W., *et al.* (See Wennersten, Henning, assignor.)
- Hill, Josef D., Arlington, Tex. Cultivator-hopple. No. 1,133,284; Mar. 30; Gaz. vol. 212; p. 1374.
- Hill, Joseph H., Wilmington, Del. Making tires. No. 1,141,708; June 1; Gaz. vol. 215; p. 220.
- Hill, Joshua A., Essex, Ontario, Canada. Motor-vehicle. No. 1,131,781; Mar. 16; Gaz. vol. 212; p. 743.
- Hill, Louis A. (See Houghton and Hill.)
- Hill, Louis H., Minneapolis, Minn. Grain-drier. No. 1,123,877; Jan. 5; Gaz. vol. 210; p. 231.
- Hill, Loyal C. (See Foster and Hill.)
- Hill, Percy L., New York, N. Y. Recording-machine. No. 1,124,649; Jan. 12; Gaz. vol. 210; p. 553.
- Hill, Peter W., Dorchester, Mass. Covering for diaphragms. No. 1,146,622; July 13; Gaz. vol. 216; p. 598.
- Hill Publishing Co. (See Ormay, Arthur L., assignor.)
- Hill Pump Valve Company, The. (See Heller, Eugene H., assignor.)
- Hill, Ralph L., Orlando, Okla. Mail-box. No. 1,151,101; Aug. 24; Gaz. vol. 217; p. 1146.
- Hill, Ralph N., Montclair, N. J., assignor to Western Electric Company, New York, N. Y. Selective signaling device. No. 1,126,009; Jan. 26; Gaz. vol. 210; p. 1103.
- Hill, Ralph N., Bloomfield, N. J., assignor to Western Electric Company, New York, N. Y. Selective signaling system. No. 1,136,337; Apr. 20; Gaz. vol. 213; p. 880.
- Hill, Ralph N., assignor to Western Electric Company, New York, N. Y. Selective signaling system. No. 1,148,319; July 27; Gaz. vol. 216; p. 1241.
- Hill, Robert H. (See Harris and Hill.)
- Hill, Robert J., Camden, N. J., and W. F. Bokum, Philadelphia, Pa. Combined carding and twisting machine. No. 1,127,994; Feb. 9; Gaz. vol. 211; p. 507.
- Hill, Roy W., *et al.* (See Wennersten, Henning, assignor.)
- Hill, Susie, Belen, Miss. Tool. No. 1,148,678; Aug. 3; Gaz. vol. 217; p. 71.
- Hill, Thomas T., Culpeper, Va. Horse-blanket. No. 1,159,495; Nov. 9; Gaz. vol. 220; p. 411.
- Hill-Tripp Pump Company, The. (See Scheurmann, Walter P., assignor.)
- Hill, Wallace C., Utica, N. Y. Winding mechanism for musical instruments. No. 1,145,836; July 6; Gaz. vol. 216; p. 302.
- Hill, Wallace C., Utica, N. Y. Arm-shield. No. 1,147,630; July 20; Gaz. vol. 216; p. 970.
- Hill, William, Alexandria, La. Cotton-compress. No. 1,164,519; Dec. 14; Gaz. vol. 221; p. 670.
- Hill, William, and L. Gardella, Oroville, Cal. Smoking-pipe. No. 1,157,161; Oct. 19; Gaz. vol. 219; p. 696.
- Hill, William B., Terre Haute, Ind. Attachment for electric fans. No. 1,142,708; June 8; Gaz. vol. 215; p. 605.
- Hill, William H., Oakwood, Ohio. Automatic electrical switch. No. 1,134,534; Apr. 6; Gaz. vol. 213; p. 164.
- Hill, William M., Minatare, Nebr. Tire. No. 1,159,026; Nov. 2; Gaz. vol. 220; p. 212.
- Hillard, Frederic W., New York, N. Y., assignor to M. R. Hillard, Middlebury, Conn. Type-writing machine. No. 1,139,035; May 11; Gaz. vol. 214; p. 502.
- Hillard, Mary R. (See Hillard, Frederic W., assignor.)
- Hille, Adolph W., Denver, Colo. Rotatable inclined water and material lifting elevator. No. 1,132,775; Mar. 23; Gaz. vol. 212; p. 1154.
- Hillebrand, Randall D. (See Beutel, Werner, assignor.)
- Hillegass, Henry, Houghton, Mich. Pipe-reaming machine. No. 1,138,564; May 4; Gaz. vol. 214; p. 293.
- Hilleke, August F., Ensley, Ala., assignor to Semet-Solvay Company, Solvay, N. Y. Producing sulfate of ammonia. No. 1,163,752; Dec. 14; Gaz. vol. 221; p. 403.
- Hilleke, August F., Ensley, Ala., assignor to Semet-Solvay Company, Solvay, N. Y. Ammonia-saturator. No. 1,163,753; Dec. 14; Gaz. vol. 221; p. 403.
- Hilleman, Daniel, St. Louis, Mo. Coaling device. No. 1,133,141; Mar. 23; Gaz. vol. 212; p. 1288.
- Hiller, Elsie, New York, N. Y. Bathing-cap. No. 1,139,418; May 11; Gaz. vol. 214; p. 634.
- Hiller, Frank D., Jr., and M. R. Kohn, St. Louis, assignors of five and seventy-one one-hundredths per cent. to F. D. Hiller, Sr., Webster Groves, Mo. Locking means for demountable rims for automobile-wheels and the like. No. 1,137,319; Apr. 27; Gaz. vol. 213; p. 1270.
- Hiller, Frank D., Sr. (See Hiller and Kohn, assignors.)
- Hiller, Joseph L., Mattapoisett, Mass. Magnetic separator. No. 1,135,016; Apr. 13; Gaz. vol. 213; p. 378.
- Hiller, Joseph L., Mattapoisett, Mass. Rotary crusher. No. 1,135,017; Apr. 13; Gaz. vol. 213; p. 378.
- Hiller, Joseph L., Mattapoisett, Mass. Pulverizer. No. 1,135,795; Apr. 13; Gaz. vol. 213; p. 648.
- Hiller, Joseph L., Mattapoisett, Mass. Bearing. No. 1,157,939; Oct. 26; Gaz. vol. 219; p. 1031.
- Hiller, Joseph L., Mattapoisett, Mass., assignor to Pennsylvania Crusher Company, New York, N. Y. Coal breaking and screening machine. No. 1,135,796; Apr. 13; Gaz. vol. 213; p. 649.
- Hilles, Samuel E., assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Gage mechanism for paper-perforators. No. 1,129,489; Feb. 23; Gaz. vol. 211; p. 1115.
- Hillhouse, Charles B., New York, N. Y. Producing carbon monoxid from carbon dioxide. No. 1,163,922; Dec. 14; Gaz. vol. 221; p. 461.
- Hilliard Clutch & Machinery Co., The. (See Scofield, Gilbert J., assignor.)
- Hilliard, Edward G. (See Klock, Arden S., assignor.)
- Hilliard, Thomas A., Sioux City, Iowa. Fertilizer. No. 1,128,446; Feb. 16; Gaz. vol. 211; p. 713.
- Hilliard, Thomas F., Oil City, Pa. Portable milling-machine for milling pockets for switch-points in stock-rails. No. 1,138,656; May 11; Gaz. vol. 214; p. 364.
- Hilliard, Walter A., Malden, assignor to W. A. Hilliard Company, Boston, Mass. Dispensing apparatus. No. 1,138,291; May 4; Gaz. vol. 214; p. 199.
- Hilliker, Charles M., and N. Salomonsky, New York, N. Y. Sparking device. No. 1,125,097; Jan. 19; Gaz. vol. 210; p. 746.
- Hillman, Annie M., Westhoff, Tex. Adjustable shade-banger. No. 1,134,852; Apr. 6; Gaz. vol. 213; p. 276.
- Hillner, Rudolph, Schenectady, N. Y., assignor to General Electric Company, Turbine bucket-wheel. No. 1,156,529; Oct. 12; Gaz. vol. 219; p. 445.
- Hills, Edward R. (See Corthell, Fred H., assignor.)
- Hills, Henry, Hartford, Conn. Safety-catch for brooches, breastpins, &c. No. 1,124,899; Jan. 12; Gaz. vol. 210; p. 640.
- Hills, Homer, Jackson, Mich. Routing and die-sinking machine. No. 1,144,842; June 29; Gaz. vol. 215; p. 1439.
- Hills, Irving, Deerfield, N. Y. Combined hoe, weeder, and plant-protector. No. 1,132,344; Mar. 16; Gaz. vol. 212; p. 948.
- Hills-McCanna Company. (See Delaney, Thomas A., assignor.)
- Hillyard, Newton S., St. Joseph, Mo. Liquid-soap dispenser. No. 1,152,178; Aug. 31; Gaz. vol. 217; p. 1562.
- Hilsinger, Adin W. (See Crump and Hilsinger.)
- Hilton, Everett C., Andover, assignor to Tyer Rubber Company, Boston, Mass. Nipple for nursing-bottles. No. 1,144,980; June 29; Gaz. vol. 215; p. 1486.
- Hilton, Harry R. (See Small and Hilton.)
- Hilton, Robert, Chicago, Ill. Faucet. No. 1,165,672; Dec. 28; Gaz. vol. 221; p. 1152.
- Hilton, Roland C., assignor to L. S. Rothenberg, Boston, Mass. Air-pump. No. 1,139,419; May 11; Gaz. vol. 214; p. 634.
- Hilton, William J., San Francisco, Cal. Carving-fork. No. 1,160,895; Nov. 16; Gaz. vol. 220; p. 960.
- Hiltz, George S., assignor to Stock Quotation Telegraph Company, New York, N. Y. Local circuit-controlling apparatus for printing-telegraph systems. No. 1,142,037; June 8; Gaz. vol. 215; p. 371.
- Himebaugh, Adelbert C. (See Himebaugh, Ray C., assignor.)
- Himebaugh, Ray C., assignor to A. C. Himebaugh, Burr Oak, Mich. Hand-planter. No. 1,144,127; June 22; Gaz. vol. 215; p. 1164.
- Himebaugh, Ray C., assignor to A. C. Himebaugh, Burr Oak, Mich. Hand-planter. No. 1,153,225; Sept. 14; Gaz. vol. 218; p. 342.
- Himes, Charles M., Covington, Ohio. Stretching and holding tool for wire fences. No. 1,151,013; Aug. 24; Gaz. vol. 217; p. 1117.
- Himes, Wrightsman D., Delta, Colo. Flume-joint coupling. No. 1,138,657; May 11; Gaz. vol. 214; p. 364.
- Himes, Wrightsman D., assignor of one-half to J. F. Terry, Delta, Colo. Coupling device. No. 1,144,128; June 22; Gaz. vol. 215; p. 1165.
- Himmel, Earl, Iowa Falls, Iowa. Tooth-brush. No. 1,125,532; Jan. 19; Gaz. vol. 210; p. 901.
- Himmel, Solomon. (See Holmes, William T., assignor.)
- Himmel, Solomon. (See Miller, Andrew E., assignor.)
- Himmel, Solomon, and G. Eble, Baltimore, Md. Display-rack. No. 1,130,166; Mar. 2; Gaz. vol. 212; p. 112.
- Himmler, Martin W. (See Eyerman and Himmler.)
- Hincher, Lee D., assignor to Hincher Manufacturing Co., Incorporated, Shoals, Ind. Display-rack. No. 1,127,002; Feb. 2; Gaz. vol. 211; p. 119.
- Hincher Manufacturing Co. (See Hincher, Lee D., assignor.)

Alphabetical list of patentees—Continued.

- Hinchliff, Everett E., Galesburg, Ill. Silo. No. 1,138,869; May 11; Gaz. vol. 214; p. 442.
- Hinchliff, William E., and C. W. Anderson, assignors to Bursen Manufacturing Company, Rockford, Ill. Knitting-machine. No. 1,163,341; Dec. 7; Gaz. vol. 221; p. 213.
- Hinchman, James E., Rushville, Ind. Speed-changing gearing. No. 1,149,515; Aug. 10; Gaz. vol. 217; p. 469.
- Hinckley, Henry D., assignor to The R. & H. Manufacturing Company, Hartford, Conn. Vending-machine. No. 1,155,312; Sept. 28; Gaz. vol. 218; p. 1125.
- Hind, Robert R., and G. F. Renton, Ewa, Hawaii. Sugar-cane-mill roller. No. 1,144,597; June 29; Gaz. vol. 215; p. 1354.
- Hind, Thomas F. (See Lund and Hind.)
- Hinde & Dauch Paper Company, The. (See Emmons, Frederick, assignor.)
- Hinde & Dauch Paper Company. (See Harbrecht, William F., assignor.)
- Hinde & Dauch Paper Company, The. (See Kelleher, Daniel, assignor.)
- Hinde & Dauch Paper Company, The. (See Morton, Clifford W., assignor.)
- Hinde & Dauch Paper Company, The. (See Morton, Lawrence D., assignor.)
- Hinde, James J., Sandusky, Ohio. Building-block for building-wall construction. No. 1,142,518; June 8; Gaz. vol. 215; p. 541.
- Hinderer, Otto A., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,135,691; Apr. 13; Gaz. vol. 213; p. 613.
- Hinderliter, Cyrus S., Hesperia, Mich. Bean-harvester. No. 1,133,474; Mar. 30; Gaz. vol. 212; p. 1440.
- Hinderliter, David C. (See Bell, Roberson, and Hinderliter.)
- Hindman, Isalah E. (See Alston, Walter M., assignor.)
- Hindman, Isalah E. (See Alston and Hindman.)
- Hindmarsh, Percy J., Lincoln, Nebr., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Fence-post. No. 1,140,156; May 18; Gaz. vol. 214; p. 931.
- Hine, Frank B., El Paso, Tex. Ink-feeder for pens. No. 1,149,050; Aug. 3; Gaz. vol. 217; p. 200.
- Hineline, Frank W., administrator and trustee. (See Ehlin, John.)
- Hineman, John, Cedar Rapids, Iowa. Lawn-mower sharpener. No. 1,124,900; Jan. 12; Gaz. vol. 210; p. 641.
- Hiner, Charles N., assignor to The Hiner Specialty and Manufacturing Co., Inc., Staunton, Va. Window-shade hanger. No. 1,139,974; May 18; Gaz. vol. 214; p. 866.
- Hiner Specialty and Manufacturing Co., The. (See Hiner, Charles N., assignor.)
- Hines, Samuel J., Plaquemine, La. Life-preserver. No. 1,137,971; May 4; Gaz. vol. 214; p. 87.
- Hines, Thomas P., Gaston, Oreg. Brake-shoe. No. 1,163,923; Dec. 14; Gaz. vol. 221; p. 461.
- Hines, William J., assignor to Puritan Comb Company, Leominster, Mass. Hinge for celluloid articles. No. 1,160,984; Nov. 16; Gaz. vol. 220; p. 992.
- Hinkle, James M., and J. S. Cooper, Somerset, Ky. Rail-joint. No. 1,154,771; Sept. 28; Gaz. vol. 218; p. 943.
- Hinkley, George W., Jr., Danbury, and C. J. Staib, Bethel, Conn. Can-opener. No. 1,148,229; July 27; Gaz. vol. 216; p. 1207.
- Hinkley, James, Hagaman, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,157,000; Oct. 19; Gaz. vol. 219; p. 639.
- Hinman, Arthur V. and R. L. Oneida, N. Y. Cow-milking machine. (Reissue.) No. 1,387,6; Feb. 9; Gaz. vol. 211; p. 605.
- Hinman, Frederick C., Lincoln, Nebr. Casting apparatus. No. 1,130,974; Mar. 9; Gaz. vol. 212; p. 428.
- Hinman, John R., Indianapolis, Ind. Chair. No. 1,164,520; Dec. 14; Gaz. vol. 221; p. 671.
- Hinman, Ralph L. (See Hinman, Arthur V. and R. L.) (Reissue.)
- Hinnant, Lazarus G., Spring Hope, N. C. Scaffolding. No. 1,143,709; June 22; Gaz. vol. 215; p. 1018.
- Hinrichsen, Edward E., Alexander, Ill., assignor to Western Electric Company, New York, N. Y. Telephone-exchange apparatus. No. 1,127,889; Feb. 9; Gaz. vol. 211; p. 471.
- Hinrichsen, Edward E., assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,161,214; Nov. 23; Gaz. vol. 220; p. 1120.
- Hinselmann, Ernst, Essen-on-the-Ruhr, Germany. Coke-oven. No. 1,145,895; July 13; Gaz. vol. 216; p. 341.
- Hinsen, William, Cat Spring, Tex. Elevated railway. No. 1,149,764; Aug. 10; Gaz. vol. 217; p. 560.
- Hinson, Davis J., Lake Charles, La. Liquid-fuel burner. No. 1,128,447; Feb. 16; Gaz. vol. 211; p. 713.
- Hinterlach, Ernst, Munich, Germany. Brewing beer. No. 1,152,415; Sept. 7; Gaz. vol. 218; p. 12.
- Hintz, Gustav W. (See Gelbrich and Hintz.)
- Hintz, John G. (See Fender, William J., assignor.)
- Hinzke, Albert G., Rothschild, assignor to Valley Iron Works Company, Appleton, Wis. Sulfur-burner. No. 1,149,765; Aug. 10; Gaz. vol. 217; p. 560.
- Hipkins, Floyd R., assignor of one-half to H. Weigel, Fort Wayne, Ind. Push-broom. No. 1,134,076; Mar. 30; Gaz. vol. 212; p. 1651.
- Hipkoe, Hettie, Seattle, Wash. Bed. No. 1,151,014; Aug. 24; Gaz. vol. 217; p. 1117.
- Hipolito, Alfred B., Los Angeles, Cal. Two-part hinge. No. 1,162,236; Nov. 30; Gaz. vol. 220; p. 1524.
- Hipolito, Alfred B., San Jose, Cal. Two-part hinge. No. 1,162,237; Nov. 30; Gaz. vol. 220; p. 1524.
- Hipolito, David E., deceased; H. C. Hipolito, Los Angeles, Cal., administratrix, assignor to herself individually. Window-fixture. No. 1,123,742; Jan. 5; Gaz. vol. 210; p. 186.
- Hipolito, Hazel C., administratrix. (See Hipolito, David E.)
- Hippel, Alfred J., New York, N. Y. Carbureter. No. 1,153,077; Sept. 7; Gaz. vol. 218; p. 252.
- Hipple, Harvey J., Lancaster, Pa. Lock-washer. No. 1,130,284; Mar. 2; Gaz. vol. 212; p. 154.
- Hipwell, Harry H. and H. T., Pittsburgh, Pa. Pocket flash-light. No. 1,134,977; Apr. 6; Gaz. vol. 213; p. 319.
- Hipwell, Harry H. and H. T., Pittsburgh, Pa. Portable flash-light. No. 1,144,201; June 22; Gaz. vol. 215; p. 1191.
- Hipwell, Harry H. and H. T., Pittsburgh, Pa. Flash-light. No. 1,149,913; Aug. 10; Gaz. vol. 217; p. 614.
- Hipwell, Harry H. and H. T., Pittsburgh, Pa. Spring globe-holder. No. 1,165,505; Dec. 28; Gaz. vol. 221; p. 1092.
- Hipwell, Harry T. (See Hipwell, Harry H. and H. T.)
- Hipwell, Harry T., Pittsburgh, Pa. Flash-light. No. 1,143,966; June 22; Gaz. vol. 215; p. 1106.
- Hirao, Tomiji, San Jose, Cal. Ink-bottle. No. 1,166,047; Dec. 28; Gaz. vol. 221; p. 1281.
- Hircock, John T. (See Gruneisen and Hircock.)
- Hirner, Emil A., Allentown, Pa. Ticket for textile goods. No. 1,146,254; July 13; Gaz. vol. 216; p. 468.
- Hirner, Emil A., Allentown, Pa. Manufacture of hosiery. No. 1,154,116; Sept. 21; Gaz. vol. 218; p. 691.
- Hirsch, Eugene, et al. (See Brown, David L., assignor.)
- Hirsch, Jacob H., assignor to Hirsch & Spitz Manufacturing Co., Atlanta, Ga. Spring bed-bottom. No. 1,135,797; Apr. 13; Gaz. vol. 213; p. 649.
- Hirsch, Nicholas E., San Luis Obispo, Cal. Releasing mechanism for air-brake systems. No. 1,139,866; May 18; Gaz. vol. 214; p. 828.
- Hirsch, Nicholas E., Wilmington, Del. Brake. No. 1,145,416; July 6; Gaz. vol. 216; p. 154.
- Hirsch, Otto C. L., Chicago, Ill. Cutting-machine. No. 1,133,142; Mar. 23; Gaz. vol. 212; p. 1288.
- Hirsch, Sidney M., Nashville, Tenn. Advertising apparatus. No. 1,138,478; May 4; Gaz. vol. 214; p. 266.
- Hirsch & Spitz Manufacturing Co. (See Hirsch, Jacob H., assignor.)
- Hirschberger, Josef, Jersey City, N. J. Apparatus for the treatment of textile fibers with liquids. No. 1,154,631; Sept. 28; Gaz. vol. 218; p. 896.
- Hirschfeld, Francis, and R. Harburger, Cleveland, Ohio. Valve-closing means. No. 1,140,821; May 25; Gaz. vol. 214; p. 1196.
- Hirschfeld, Ike, Fort Worth, Tex. Bag-turner. No. 1,155,152; Sept. 28; Gaz. vol. 218; p. 1075.
- Hirschman, Morris. (See Leonard, Raymond J., assignor.)
- Hirschmann, Frederick C. F., Indianapolis, Ind. Engraving-machine. No. 1,131,379; Mar. 9; Gaz. vol. 212; p. 566.
- Hirschmann, Harry J., St. Louis, Mo. Electric rain-alarm. No. 1,135,798; Apr. 13; Gaz. vol. 213; p. 650.
- Hirsh, Allan M., C. Meriwether, Montclair, and J. C. Mitchell, East Orange, N. J., assignors to Lock Joint Pipe Company, New York, N. Y. Water-tight joint for concrete water-pipes. No. 1,143,117; June 15; Gaz. vol. 215; p. 788.
- Hirsh, Allan M., C. Meriwether, Montclair, and J. C. Mitchell, East Orange, N. J., assignors to Lock Joint Pipe Company, New York, N. Y. Expansion-joint for concrete water-pipes. No. 1,151,949; Aug. 31; Gaz. vol. 217; p. 1482.
- Hirsh, Arthur, Chicago, Ill. Oil-cup. No. 1,165,333; Dec. 21; Gaz. vol. 221; p. 993.
- Hirsh, Arthur, Chicago, Ill. Oil-cup. No. 1,165,334; Dec. 21; Gaz. vol. 221; p. 993.
- Hirsh, Fred, New York, N. Y. Hat-fastening. No. 1,164,184; Dec. 14; Gaz. vol. 221; p. 551.
- Hirsh, Fred, New York, N. Y., assignor to Adjusta Company. Adjustable garment-closure. No. 1,141,115; June 1; Gaz. vol. 215; p. 9.
- Hirshberg, Herbert S., Lakewood, Ohio. Library-fine computer. No. 1,149,516; Aug. 10; Gaz. vol. 217; p. 469.
- Hirshberg, Julius H., Oakland, Cal. Electrically-controlled system for moving-picture theaters. No. 1,160,714; Nov. 16; Gaz. vol. 220; p. 899.
- Hirshfeld, Jerome, New York, N. Y. Sugar-container. No. 1,140,822; May 25; Gaz. vol. 214; p. 1197.
- Hirshheimer, Harry J., assignor to La Crosse Plow Company, La Crosse, Wis. Wheeled plow. No. 1,130,732; Mar. 9; Gaz. vol. 212; p. 345.
- Hirshstein, Joseph, St. Louis, Mo. Drain. No. 1,127,246; Feb. 2; Gaz. vol. 211; p. 205.

- Hirst, Franklin G., assignor to Franklin Brass Manufacturing Company, Philadelphia, Pa. Automatic compression stop and waste cock or valve. No. 1,147,399; July 20; Gaz. vol. 216; p. 889.
- Hirst, John H., *et al.* (See Murdock, James A., assignor.)
- Hirstel, Dave. (See White, Tilman, assignor.)
- Hirt, Jules H., El Paso, Tex. Soda-ash process. No. 1,141,639; June 1; Gaz. vol. 215; p. 196.
- Hirt, Jules H., El Paso, Tex. Caustic-soda process. No. 1,152,949; Sept. 7; Gaz. vol. 218; p. 209.
- Hirt, Leon E., Pittsburgh, Pa. Method of and apparatus for the manufacture of producer-gas. No. 1,130,512; Mar. 2; Gaz. vol. 212; p. 236.
- Hirth, Carl A., Cannstatt-Stuttgart, Germany. Propeller. No. 1,163,010; Dec. 7; Gaz. vol. 221; p. 96.
- Hirth, Carl A., assignor to Fortuna-Werke Albert Hirth, Cannstatt-Stuttgart, Germany. Measuring-tool. No. 1,162,720; Nov. 30; Gaz. vol. 220; p. 1686.
- Hirvi, Isaac, Daisytown, Pa. Scrubbing-machine. No. 1,146,565; July 13; Gaz. vol. 216; p. 579.
- Hiscock, Emory C., assignor to W. W. Kimball Company, Chicago, Ill. Pneumatic action for player-pianos. No. 1,125,320; Jan. 19; Gaz. vol. 210; p. 826.
- Hiscock, Emory C., assignor to W. W. Kimball Company, Chicago, Ill. Pneumatic action for player-pianos. No. 1,147,725; July 27; Gaz. vol. 216; p. 1029.
- Hiscock, Joseph H., Minneapolis, Minn. Attachment for edging or jointing machines. No. 1,141,709; June 1; Gaz. vol. 215; p. 220.
- Hise, John P., Hightown, Va., assignor to The Hise Wagon Brake Company, Marlinton, W. Va. Rack for wagon-brakes. No. 1,149,051; Aug. 3; Gaz. vol. 217; p. 200.
- Hise, John P., Hightown, Va., assignor to The Hise Wagon Brake Company, Marlinton, W. Va. Wagon-brake. No. 1,151,879; Aug. 31; Gaz. vol. 217; p. 1460.
- Hise, John P., and W. H. Moyers, Hightown, Va. Flash-light attachment for guns. No. 1,144,656; June 29; Gaz. vol. 215; p. 1374.
- Hise Wagon Brake Company, The. (See Hise, John P., assignor.)
- Hiskey, George M., assignor of one-half to E. L. Potter, Los Angeles, Cal. Bottle-stopper lock. No. 1,142,519; June 8; Gaz. vol. 215; p. 542.
- Hiss, Fielder L., Jr., Newark, N. J., assignor to Westinghouse Electric and Manufacturing Co. Dynamo-electric machine. No. 1,162,482; Nov. 30; Gaz. vol. 220; p. 1608.
- Hiss, Fielder L., Newark, N. J., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,162,483; Nov. 30; Gaz. vol. 220; p. 1608.
- Hitchcock, Delbert, St. Paul, Minn. Reamer attachment for die-stocks. No. 1,156,290; Oct. 12; Gaz. vol. 219; p. 358.
- Hitchcock Experiment Company. (See Hitchcock, Halbert K., assignor.) (Reissue.)
- Hitchcock, Forrest L., Indianapolis, Ind., assignor of one-half to E. R. Templeton. Transmission mechanism. No. 1,165,410; Dec. 28; Gaz. vol. 221; p. 1060.
- Hitchcock, Frank I., Bridgeport, Conn. Vapor-heater for internal-combustion engines. No. 1,135,113; Apr. 13; Gaz. vol. 213; p. 412.
- Hitchcock, Halbert K., Tarentum, Pa. Manufacture of glass plates or sheets. No. 1,128,448; Feb. 16; Gaz. vol. 211; p. 713.
- Hitchcock, Halbert K., Tarentum, Pa., assignor of one-half to Hitchcock Experiment Company. Mechanism for feeding glass. (Reissue.) No. 13,929; June 15; Gaz. vol. 215; p. 960.
- Hitchcock, Halbert K., Tarentum, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-material-handling apparatus. No. 1,151,590; Aug. 31; Gaz. vol. 217; p. 1360.
- Hitchcock, Halbert K., Tarentum, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Grinding apparatus. No. 1,151,785; Aug. 31; Gaz. vol. 217; p. 1426.
- Hitchcock, Halbert K., Tarentum, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Drawing glass. No. 1,163,754; Dec. 14; Gaz. vol. 221; p. 403.
- Hitchcock, Otto G., assignor to Hays Manufacturing Company, Erie, Pa. Valve for waste pipes or tubes. No. 1,127,622; Feb. 9; Gaz. vol. 211; p. 373.
- Hitchcock, Otto G., assignor to Hays Manufacturing Company, Erie, Pa. Handle for cocks, faucets, and valves. No. 1,145,587; July 6; Gaz. vol. 216; p. 213.
- Hitchcock, William L., Portsmouth, Ohio. Arch for locomotive fire-boxes. No. 1,145,769; July 6; Gaz. vol. 216; p. 278.
- Hitchner, Chester W., Philadelphia, Pa. Coin-controlled vending-machine. No. 1,159,939; Nov. 9; Gaz. vol. 220; p. 572.
- Hitchner, Chester W., Philadelphia, Pa. Coin-controlled actuating mechanism for vending-machines. No. 1,159,940; Nov. 9; Gaz. vol. 220; p. 573.
- Hitchner, Joseph C., Philadelphia, Pa. Clasp. No. 1,135,968; Apr. 13; Gaz. vol. 213; p. 710.
- Hite, Charles E., Burlington, N. J., assignor of one-half to W. Pincus, Philadelphia, Pa. Making and preserving sulfur and alkali compounds. No. 1,132,476; Mar. 16; Gaz. vol. 212; p. 995.
- Hitner, Harry F., Mount Vernon, Ohio. Motor-car drive system. No. 1,139,678; May 18; Gaz. vol. 214; p. 763.
- Hitner, Harry F., Mount Vernon, Ohio, assignor to The Pittsburgh Plate Glass Company, Pittsburgh, Pa. Apparatus for splitting glass cylinders. No. 1,131,134; Mar. 9; Gaz. vol. 212; p. 482.
- Hitner, Harry F., Mount Vernon, Ohio, assignor to The Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing apparatus. No. 1,138,870; May 11; Gaz. vol. 214; p. 442.
- Hitner, Harry F., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Electric-motor-control apparatus. No. 1,164,719; Dec. 21; Gaz. vol. 221; p. 779.
- Hitt, Charlie E., Lookout, W. Va. Blower-hood and fastening therefor. No. 1,142,960; June 15; Gaz. vol. 215; p. 733.
- Hitt, Marcellus M., assignor to D. L. Kauffman, Luray, Va. Shoe and pants duster. No. 1,135,453; Apr. 13; Gaz. vol. 213; p. 529.
- Hitt, Samuel E. (See Peyton and Hitt.)
- Hitt, Samuel E., Elyria, Ohio, and J. I. Peyton, Washington, D. C. Ingot-mold. No. 1,139,284; May 11; Gaz. vol. 214; p. 586.
- Hittle, Homer E. (See Conwell and Hittle.)
- Hittle, James M., *et al.* (See O'Brien, James D., assignor.)
- Hitzert, Albert, Saginaw, Mich. Attachment for shipping-packages. No. 1,139,523; May 18; Gaz. vol. 214; p. 707.
- Hixon, Hiram W., Philadelphia, Pa. Treating ingots. No. 1,130,513; Mar. 2; Gaz. vol. 212; p. 236.
- Hjelte, Adolph, Chicago, Ill. Engine construction. No. 1,127,623; Feb. 9; Gaz. vol. 211; p. 374.
- Hjort, Alf, assignor of one-fourth to H. Japp, New York, N. Y. Telegraph. No. 1,163,539; Dec. 7; Gaz. vol. 221; p. 280.
- Hjort, Axel F., Chicago, Ill., assignor to Brunswick-Balke-Collender Co. Billiard-table. No. 1,157,940; Oct. 26; Gaz. vol. 219; p. 1032.
- Hjorth, Henrik J., Woburn, Mass. T-rest for lathes. No. 1,127,890; Feb. 9; Gaz. vol. 211; p. 472.
- Hleb, Peter, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,153,429; Sept. 14; Gaz. vol. 218; p. 416.
- Hluda, John. (See Wein and Hluda.)
- Hoadley, Alfred H., Providence, R. I. Tractor system for motor-vehicles. No. 1,137,620; Apr. 27; Gaz. vol. 213; p. 1373.
- Hoag, Chance M. (See Backstrand and Hoag.)
- Hoag, E. G., *et al.* (See Wells and Saxton, assignors.)
- Hoag, Norman J. (See Kitchen and Hoag.)
- Hoagland, Amos N., Oxford, N. J. Spark-plug. No. 1,154,117; Sept. 21; Gaz. vol. 218; p. 691.
- Hoagland, Ellery M., San Francisco, Cal., assignor of one-fourth to I. J. Kohler, Seattle, Wash., and one-fourth to A. C. Hicks, San Francisco, Cal. Window-lock. No. 1,154,861; Sept. 28; Gaz. vol. 218; p. 972.
- Hoagland, Ellery M., San Francisco, Cal., assignor of one-fourth to I. J. Kohler, Seattle, Wash., and one-fourth to A. C. Hicks, San Francisco, Cal. Safety-bolt for doors. No. 1,154,862; Sept. 28; Gaz. vol. 218; p. 972.
- Hoagland, Frank O., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Projectile. No. 1,149,830; Aug. 10; Gaz. vol. 217; p. 584.
- Hoagland, Frank O., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Cartridge. No. 1,157,221; Oct. 19; Gaz. vol. 219; p. 718.
- Hoaglin, Frank L., Waupaca, Wis. Card-file holder. No. 1,133,377; Mar. 30; Gaz. vol. 212; p. 1407.
- Hoar, Allen, Long Beach, assignor, by mesne assignments, to A. R. Neff, Los Angeles, Cal. Automatic air-intake for submarines, &c. No. 1,151,540; Aug. 24; Gaz. vol. 217; p. 1296.
- Hoar, George W. (See Hoar, John A. and G. W.)
- Hoar, John A. and G. W., Oskaloosa, Iowa. Railway-gate. No. 1,134,201; Apr. 6; Gaz. vol. 213; p. 43.
- Hoar, Samuel, Virginia, Minn. Tunneling-machine. No. 1,162,607; Nov. 30; Gaz. vol. 220; p. 1649.
- Hoard, Halbert L., Port Atkinson, Wis. Massaging device. No. 1,129,802; Feb. 23; Gaz. vol. 211; p. 1219.
- Hobart, Franklin G., and C. B. Jahnke, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine. No. 1,159,341; Nov. 2; Gaz. vol. 220; p. 324.
- Hobart, Garret A., Paterson, N. J. Recording and indicating apparatus. No. 1,147,323; July 20; Gaz. vol. 216; p. 859.
- Hobart, James F., Detroit, Mich., assignor to The Diamond Match Company, Chicago, Ill. Machine for packing match-books and the like. No. 1,132,268; Mar. 16; Gaz. vol. 212; p. 921.
- Hobart Manufacturing Company, The. (See Johnston, Herbert L., assignor.)
- Hobble, William L., Downs, Ala. Rope-measure. No. 1,155,236; Sept. 28; Gaz. vol. 218; p. 1101.
- Hobble, Herbert, Liberal, Kans. Guide for flush-valves. No. 1,128,980; Feb. 16; Gaz. vol. 211; p. 901.
- Hobbs, Albert C., assignor of one-half to H. C. Harvey, Huntington, W. Va. Iron-cased-basket street-marker. No. 1,130,086; Mar. 2; Gaz. vol. 212; p. 85.
- Hobbs, Charles L., Chicago, Ill. Heat-retaining automobile-hood. No. 1,162,777; Dec. 7; Gaz. vol. 221; p. 16.
- Hobbs, Clement, and J. C. Rae, Owosso, Mich. Blow-off cock. No. 1,160,285; Nov. 16; Gaz. vol. 220; p. 744.

Alphabetical list of patentees—Continued.

- Hobbs, Elbert R., Buhl, Idaho. Rotary valve. No. 1,137,758; May 4; Gaz. vol. 214; p. 13.
- Hobbs, Frank C., Muskegon, Mich., assignor to Brunswick-Balke-Collender Co. Cue-rack and the like. No. 1,141,060; May 26; Gaz. vol. 214; p. 1280.
- Hobbs, Frank C., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Pin-setter for bowling-alleys. No. 1,153,089; Sept. 14; Gaz. vol. 218; p. 507.
- Hobbs, Frank C., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling-alley pin-setter. No. 1,153,917; Sept. 21; Gaz. vol. 218; p. 622.
- Hobbs, Frank C., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling-alley pin-setter. No. 1,162,923; Dec. 7; Gaz. vol. 221; p. 65.
- Hobbs, Henry W., Portland, Me. Horizontal arc-lamp. No. 1,132,776; Mar. 23; Gaz. vol. 212; p. 1155.
- Hobbs, John E., North Berwick, Me. Attachable sleigh-shoe for vehicle-wheels. No. 1,127,762; Feb. 9; Gaz. vol. 211; p. 425.
- Hobbs, John O., Chicago, Ill. Starting device for engines. No. 1,150,033; Aug. 17; Gaz. vol. 217; p. 718.
- Hobbs Manufacturing Company. (See Hobbs, Samuel T., assignor.)
- Hobbs Manufacturing Company. (See Rohland, Curt J., assignor.)
- Hobbs, Samuel T., assignor to Hobbs Manufacturing Company, Worcester, Mass. Paper-box-topping machine. No. 1,131,241; Mar. 9; Gaz. vol. 212; p. 519.
- Hobbs, Samuel T., assignor to Hobbs Manufacturing Company, Worcester, Mass. Box-ending machine. No. 1,136,958; Apr. 27; Gaz. vol. 213; p. 1137.
- Hobbs Wall Paper Company. (See Clark, Thomas F., assignor.)
- Hobbs, Wilber A., Pittsburgh, Pa., assignor to C. Adams, trustee, New Rochelle, N. Y. Manufacture of bread. No. 1,131,698; Mar. 16; Gaz. vol. 212; p. 713.
- Hoberg, Frank H., Green Bay, Wis. Paper-cabinet. No. 1,154,632; Sept. 28; Gaz. vol. 218; p. 896.
- Hoberg, Frank H., Green Bay, Wis. Paper-feeding cabinet. No. 1,154,633; Sept. 28; Gaz. vol. 218; p. 897.
- Hoberg, Frank H., Green Bay, Wis. Feeding-cabinet. No. 1,154,634; Sept. 28; Gaz. vol. 218; p. 897.
- Hoberg, Frank H., Green Bay, Wis. Paper-package. No. 1,159,382; Nov. 9; Gaz. vol. 220; p. 370.
- Hoberg, Frank H., and C. C. Thomas, Jr., Green Bay, Wis. Suction couch-roll. No. 1,159,381; Nov. 9; Gaz. vol. 220; p. 370.
- Hobkirk, John. (See Watts, Richard E., assignor.)
- Hobson, Arthur E., assignor to International Silver Co., Meriden, Conn. Insulated handle for metal vessels. No. 1,137,972; May 4; Gaz. vol. 214; p. 88.
- Hobson, Francis J., Phoenix, Ariz. Tractor attachment for motor-vehicles. No. 1,154,035; Sept. 28; Gaz. vol. 218; p. 897.
- Hobson, Henry E. (See Murph, Donald H., assignor.)
- Hobson, John T. (See Rubin, Charles F., assignor.)
- Hobson, Joseph W., Jr., Bayonne, N. J. Fountain-pen. No. 1,159,027; Nov. 2; Gaz. vol. 220; p. 213.
- Hobson, Russell B., New York, N. Y. Feed-water regulator. No. 1,124,225; Jan. 5; Gaz. vol. 210; p. 351.
- Hoch, Delton I. (See Brown, Carl E., assignor.)
- Hoch, Delton I., assignor to Vapor-Gas Burner Co., Columbus, Ohio. Oil-burner. No. 1,128,783; Feb. 16; Gaz. vol. 211; p. 829.
- Hochberg, Oscar, assignor to American Car and Foundry Company, St. Louis, Mo. Car end framing. No. 1,140,680; May 25; Gaz. vol. 214; p. 1148.
- Hochberg, Oscar, and J. J. Cooper, assignors to American Car and Foundry Company, St. Louis, Mo. Upper buffing device for vestibule face-plates. No. 1,164,000; Dec. 14; Gaz. vol. 221; p. 488.
- Hochendoner, Joseph, Charleroi, Pa. Frame for pictures and mirrors. No. 1,126,468; Jan. 26; Gaz. vol. 210; p. 1269.
- Hochreiter, Andrew. (See Branington, Edwin O., assignor.)
- Hochriem, Gustav F. (See Paupa and Hochriem.)
- Hochstädter, Martin, assignor to Siemens-Schuckertwerke G. m. b. H., Berlin, Germany. Safety connection for electric mains. No. 1,154,394; Sept. 21; Gaz. vol. 218; p. 786.
- Hochstetter, Frederick W., New York, N. Y. Convertible moving-picture machine. No. 1,133,378; Mar. 30; Gaz. vol. 212; p. 1407.
- Hochstetter, Frederick W., New York, N. Y., assignor to H. P. Patents and Processes Company, Inc. Shutter for moving-picture machines. No. 1,137,320; Apr. 27; Gaz. vol. 213; p. 1270.
- Hochstetter, Frederick W., New York, assignor to P. M. Pierson, Scarborough-on-the-Hudson, N. Y. Restorative for blemished moving-picture films. No. 1,139,679; May 18; Gaz. vol. 214; p. 764.
- Hochstetter, Frederick W., New York, assignor to P. M. Pierson, Scarborough-on-the-Hudson, N. Y. Restorative for blemished moving-picture films. No. 1,139,680; May 18; Gaz. vol. 214; p. 764.
- Hochstetter, Frederick W., New York, assignor to P. M. Pierson, Scarborough-on-the-Hudson, N. Y. Composition of matter for restoring the pictures on films. No. 1,139,682; May 18; Gaz. vol. 214; p. 764.
- Hochstetter, Frederick W., New York, assignor to P. M. Pierson, Scarborough-on-the-Hudson, N. Y. Composition of matter for restoring the pictures on films. No. 1,139,683; May 18; Gaz. vol. 214; p. 764.
- Hochstetter, Frederick W., New York, assignor to P. M. Pierson, Scarborough-on-the-Hudson, N. Y. Composition of matter for restoring the pictures on films. No. 1,149,443; Aug. 10; Gaz. vol. 217; p. 444.
- Hochstetter, Robert, Cincinnati, Ohio. Ink and making same. No. 1,158,131; Oct. 26; Gaz. vol. 219; p. 1100.
- Hock, Arno, Klein-Zschachwitz, near Dresden, Germany. Furnace for boilers. No. 1,146,255; July 13; Gaz. vol. 216; p. 468.
- Hockabout, Walter R., Palo Alto, Cal. Drill. No. 1,154,636; Sept. 28; Gaz. vol. 218; p. 898.
- Hocke, Emil F., et al. (See James, William E., assignor.)
- Hockensmith Wheel & Mine Car Company. (See Hockensmith, Wilbur D., assignor.)
- Hockensmith, Wilbur D., assignor to Hockensmith Wheel & Mine Car Company, Penns Station, Pa. Mine-car wheel. No. 1,154,990; Sept. 28; Gaz. vol. 218; p. 1017.
- Hocker, Charles, Huntingburg, Ind. Smoke-consumer. No. 1,159,028; Nov. 2; Gaz. vol. 220; p. 213.
- Hocking, Francis M. (See Hocking, Tolbert C. and F. M.)
- Hocking, Tolbert C. and F. M., Bone Gap, Ill. Foldable cover or awning. No. 1,150,764; Aug. 17; Gaz. vol. 217; p. 973.
- Hockley, Claude C., Grand Mere, Quebec, Canada. Bark-stripping machine. No. 1,136,959; Apr. 27; Gaz. vol. 213; p. 1138.
- Hodam, Joseph A., Lincoln, Nebr. Music-leaf turner. No. 1,149,052; Aug. 3; Gaz. vol. 217; p. 201.
- Hodes, David H., Brooklyn, N. Y. Tape-measure. No. 1,164,347; Dec. 14; Gaz. vol. 221; p. 609.
- Hodgdon, Herbert W., et al. (See Cleaver, Fremont J., assignor.)
- Hodge, Arthur J. (See Halberg, Mier, and Hodge.)
- Hodge, Carroll, Radnor, Pa. Secondary or storage battery. No. 1,125,321; Jan. 19; Gaz. vol. 210; p. 826.
- Hodge, William B., assignor to S. W. Cramer, Charlotte, N. C. Humidifying, heating, and ventilating system. No. 1,147,244; July 20; Gaz. vol. 216; p. 834.
- Hodgeboom, Harry K., Montrose, N. Y. Vehicle-indicator. No. 1,142,038; June 8; Gaz. vol. 215; p. 372.
- Hodges, Eugene C., Gregory, Tex. Four-wheel drive. No. 1,137,140; Apr. 27; Gaz. vol. 213; p. 1204.
- Hodges, Eugene C., Gregory, Tex. Cultivator. No. 1,137,621; Apr. 27; Gaz. vol. 213; p. 1374.
- Hodges, Frederick F., Kalamazoo, Mich. Hame and trace connection. No. 1,125,533; Jan. 19; Gaz. vol. 210; p. 901.
- Hodges, Frederick W., Detroit, Mich. Lubricator. No. 1,129,035; Feb. 16; Gaz. vol. 211; p. 920.
- Hodges, Frederick W., assignor to Detroit Lubricator Company, Detroit, Mich. Carbureter. No. 1,159,029; Nov. 2; Gaz. vol. 220; p. 213.
- Hodges, Frederick W., assignor to Detroit Lubricator Company, Detroit, Mich. Valve. No. 1,161,861; Nov. 30; Gaz. vol. 220; p. 1392.
- Hodges, Zula C. (See Phare, John J., assignor.)
- Hodgin, George V., Canon City, Colo. Adjustable hinge. No. 1,139,524; May 18; Gaz. vol. 214; p. 707.
- Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Governing means for engines. No. 1,136,910; Apr. 20; Gaz. vol. 213; p. 1084.
- Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Oil-actuated valve mechanism for steam-turbines. No. 1,151,522; Aug. 24; Gaz. vol. 217; p. 1289.
- Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Fluid-pressure turbine. No. 1,158,497; Nov. 2; Gaz. vol. 220; p. 30.
- Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Turbine. No. 1,158,498; Nov. 2; Gaz. vol. 220; p. 30.
- Hodgman, Bruce, Shoshone, Idaho. Hay-stacker. No. 1,131,518; Mar. 9; Gaz. vol. 212; p. 615.
- Hodgman, Willis K., Taunton, Mass., assignor, by mesne assignments, to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet carrying and piling mechanism for printing-presses. No. 1,135,454; Apr. 13; Gaz. vol. 213; p. 529.
- Hodgman, Willis K., assignor to The Huber-Hodgman Printing Press Company, Taunton, Mass. Rotary printing-press. No. 1,137,859; May 4; Gaz. vol. 214; p. 47.
- Hodgman, Willis K., assignor to The Huber-Hodgman Printing Press Company, Taunton, Mass. Sheet-piling mechanism for printing-presses. No. 1,140,157; May 18; Gaz. vol. 214; p. 931.

Alphabetical list of patentees—Continued.

- Hodgson, Harold and R., and J. Glazbrook, Chicago, Ill. Junction-board. No. 1,139,764; May 18; Gaz. vol. 214; p. 792.
- Hodgson, Herbert H. (See Douglas, Alexander, assignor.)
- Hodgson, John A., Long Island City, N. Y. Track-cleaner. No. 1,124,226; Jan. 5; Gaz. vol. 210; p. 352.
- Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Continuous can-spraying machine. No. 1,141,339; June 1; Gaz. vol. 215; p. 90.
- Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Lacquer composition for cans. No. 1,148,168; July 27; Gaz. vol. 216; p. 1187.
- Hodgson, Joseph. (See Blennerhassett, Arthur A., assignor.)
- Hodgson, Roy. (See Hodgson and Glazbrook.)
- Hodgson, William H., Rockville, Conn. Necktie-clip. No. 1,149,444; Aug. 10; Gaz. vol. 217; p. 445.
- Hodkinson, George F., Philadelphia, Pa. Reservoir. No. 1,155,490; Oct. 5; Gaz. vol. 219; p. 59.
- Hodny, William L., Buffalo, N. Y. Polishing-machine. No. 1,142,570; June 8; Gaz. vol. 215; p. 559.
- Hodson, Leopold C., Winnipeg, Manitoba, Canada. Annunciator. No. 1,144,843; June 29; Gaz. vol. 215; p. 1440.
- Hoe, Robert, New York, N. Y. Web-printing machine. No. 1,161,476; Nov. 23; Gaz. vol. 220; p. 1213.
- Hoecker, Thomas A., and E. A. Benz, St. Louis, Mo. Novelty for advertising and other purposes. No. 1,131,699; Mar. 16; Gaz. vol. 212; p. 713.
- Hoefer, Chester A. (See Hoefer, Frederick W. and C. A.)
- Hoefer, Chester A., Freeport, Ill. Detachable boat-motor. No. 1,160,410; Nov. 16; Gaz. vol. 220; p. 787.
- Hoefer, Frederick W. and C. A., assignors to Hoefer Manufacturing Company, Freeport, Ill. Multiple-spindle drill-head. No. 1,164,813; Dec. 21; Gaz. vol. 221; p. 812.
- Hoefer Manufacturing Company. (See Hoefer, Frederick W. and C. A., assignors.)
- Hoeffler, Albert, et al. (See Racher, Peter, assignor.)
- Hoeffle, Frank F., Louisville, Ky. Spring. No. 1,157,869; Oct. 26; Gaz. vol. 219; p. 1007.
- Hoeiglund, Herman, assignor of one-half to S. B. Widlund, Hawley, Minn. Combined step-ladder and ironing-board. No. 1,153,430; Sept. 14; Gaz. vol. 218; p. 416.
- Hoell, William H., Grand Cane, La. Fastening device. No. 1,165,257; Dec. 21; Gaz. vol. 221; p. 969.
- Hoeltke, William F., Rochester, N. Y. Fog-signal for trolley-lines. No. 1,160,896; Nov. 16; Gaz. vol. 220; p. 961.
- Hoenack, Hugo. (See Hoenack, Otto and H.)
- Hoenack, Otto, Arlington, N. J., and H. Hoenack, assignors to R. H. Sellers Company, New York, N. Y. Telegraphic-tape perforator. No. 1,150,765; Aug. 17; Gaz. vol. 217; p. 973.
- Hoencke, Walter W. (See Whitmer, Arthur K., assignor.)
- Hoeirichs, Edward, Baltimore, Md. Flushing apparatus for water-closets. No. 1,132,719; Mar. 23; Gaz. vol. 212; p. 1133.
- Hoeirlein, Heinrich, Vohwinkel, Germany, assignor to Synthetic Patents Co. Inc., New York, N. Y. Physiologically-active base. No. 1,166,208; Dec. 28; Gaz. vol. 221; p. 1343.
- Hoenel, Edward, Racine, Wis., assignor of one-half to H. E. Peck, Washington, D. C. Key-duplicating machine. No. 1,165,099; Dec. 21; Gaz. vol. 221; p. 912.
- Hoerr, Louis A., St. Louis, Mo. Brake mechanism. No. 1,149,579; Aug. 10; Gaz. vol. 217; p. 491.
- Hoerr, Louis A., St. Louis, Mo. Brake mechanism. No. 1,156,479; Oct. 12; Gaz. vol. 219; p. 427.
- Hoerr, Louis A., St. Louis, Mo. Brake mechanism. No. 1,156,480; Oct. 12; Gaz. vol. 219; p. 427.
- Hoeschen, Henry A., assignor to Hoeschen Manufacturing Company, Omaha, Neb. Railway-signal-actuating mechanism. No. 1,150,822; Aug. 17; Gaz. vol. 217; p. 993.
- Hoeschen Manufacturing Company. (See Hoeschen, Henry A., assignor.)
- Hoeschen Manufacturing Company. (See Ryner, Hubert P., assignor.)
- Hoexter, Samuel J., Ann Arbor, Mich., assignor to E. E. Bell, Glen Ridge, N. J. Transom-operator. No. 1,165,411; Dec. 28; Gaz. vol. 221; p. 1060.
- Hoeys, James J. (See Dobson, John E., assignor.)
- Hocyn, John J., New York, N. Y. Pen cleaner and holder. No. 1,124,436; Jan. 12; Gaz. vol. 210; p. 475.
- Hofe, Christian von, Zehlendorf, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedland, near Berlin, Germany. Distance-measuring instrument. No. 1,147,990; July 27; Gaz. vol. 216; p. 1122.
- Hofer, Clarence C., Lakeville, Ohio. Traction appliance for engines. No. 1,163,822; Dec. 14; Gaz. vol. 221; p. 428.
- Hoflerle, Henry A., et al. (See Hoflerle, John, assignor.)
- Hoflerle, John, assignor of one-fourth to H. A. Hoflerle, one-fourth to A. Auer, and one-fourth to L. Auer, Chicago, Ill. Door check and closer. No. 1,133,725; Mar. 30; Gaz. vol. 212; p. 1533.
- Hoff, Arnold, New York, N. Y. Hat-press. No. 1,142,430; June 8; Gaz. vol. 215; p. 511.
- Hoff, Charles, assignor of one-half to A. Oker, Cincinnati, Ohio. Spring-wheel. No. 1,139,285; May 11; Gaz. vol. 214; p. 587.
- Hoff, Charles, assignor of one-half to A. Oker, Cincinnati, Ohio. Spring-wheel. No. 1,139,286; May 11; Gaz. vol. 214; p. 587.
- Hoff, Edward R., New York, N. Y. Heat-shield for incandescent electric lamps. No. 1,145,837; July 6; Gaz. vol. 216; p. 302.
- Hoffa, Erwin. (See Wagner, Erber and Hoffa.)
- Hoffay, Jose, London, England. Sound-box. No. 1,143,394; June 15; Gaz. vol. 215; p. 887.
- Hoffay, Jose, London, England. Sound-box or the like. No. 1,144,202; June 22; Gaz. vol. 215; p. 1191.
- Hoffberg, Samuel M., New York, N. Y. Table-cover. No. 1,142,571; June 8; Gaz. vol. 215; p. 559.
- Hoffelt, Frank J. and M., Springfield, Mo. Shade-bracket. No. 1,153,385; Sept. 14; Gaz. vol. 218; p. 400.
- Hoffelt, Michel. (See Hoffelt, Frank J. and M.)
- Hoffenberg, Maurice, New Haven, Conn. Belt and buckle. No. 1,146,161; July 13; Gaz. vol. 216; p. 435.
- Hoffer, Temple B., Wichita Falls, Tex. Pipe-tongs support. No. 1,148,679; Aug. 3; Gaz. vol. 217; p. 71.
- Hoffine, Fred G., assignor to Home Ironing Board Company, Kansas City, Mo. Ironing-board. No. 1,162,778; Dec. 7; Gaz. vol. 221; p. 16.
- Hoffman, Addison F., Pittsburgh, Pa. Pickling iron and steel. No. 1,146,071; July 13; Gaz. vol. 216; p. 404.
- Hoffman, Adon J., Syracuse, N. Y. Clothes-pressing apparatus. No. 1,130,902; Mar. 9; Gaz. vol. 212; p. 404.
- Hoffman, Adon J., Syracuse, N. Y. Driving mechanism for reversely-rotatable elements. No. 1,159,767; Nov. 9; Gaz. vol. 220; p. 509.
- Hoffman, Albert R., Decatur, Ill. Bottle or jar closure. No. 1,164,939; Dec. 21; Gaz. vol. 221; p. 857.
- Hoffman, Alfred W., New York, N. Y. Tabular calculator. No. 1,139,287; May 11; Gaz. vol. 214; p. 587.
- Hoffman, Byron F., Byron, Cal. Animal-trap. No. 1,144,545; June 29; Gaz. vol. 215; p. 1336.
- Hoffman, Charles. (See Kohman, Hoffman, and Blake.)
- Hoffman, Charles. (See Kohman, Hoffman, and Godfrey.)
- Hoffman, Charles, McHenry, N. D. Trace-carrier. No. 1,165,879; Dec. 28; Gaz. vol. 221; p. 1224.
- Hoffman, Charles A., Minneapolis, Minn. Rimless-spectacle mounting. No. 1,129,490; Feb. 23; Gaz. vol. 211; p. 1115.
- Hoffman, Charles M., Lebanon, N. H. Faucet. No. 1,147,943; July 27; Gaz. vol. 216; p. 1106.
- Hoffman, Clay L., W. F. Koezele, and R. F. Bayerl, Portsmouth, Ohio. Rail-tie and fastening means therefor. No. 1,149,649; Aug. 10; Gaz. vol. 217; p. 521.
- Hoffman, Don G., and J. F. Schaefer, assignors to The Van Dorn Iron Works Company, Cleveland, Ohio. Sectional filing-case. No. 1,147,022; July 20; Gaz. vol. 216; p. 757.
- Hoffman, Elmer W., Tulsa, Okla. Amalgamator. No. 1,150,191; Aug. 17; Gaz. vol. 217; p. 775.
- Hoffman, Erastus B., Harrisburg, Pa. Hand-slotter. No. 1,160,286; Nov. 16; Gaz. vol. 220; p. 744.
- Hoffman, Florette, Houston, Tex. Gate operating and locking means. No. 1,129,867; Mar. 2; Gaz. vol. 212; p. 12.
- Hoffman, Fred. (See Hebern and Hoffman.)
- Hoffman, George D., Pasadena, Cal., assignor to Hoffman Specialty Company, Boston, Mass. Automatic air-valve for steam-radiators. No. 1,132,009; Mar. 16; Gaz. vol. 212; p. 825.
- Hoffman, George D., Pasadena, Cal., assignor to Hoffman Specialty Company, Boston, Mass. Radiator air-valve. No. 1,132,010; Mar. 16; Gaz. vol. 212; p. 826.
- Hoffman, George E. (See Outman, Clarence E. and A., assignors.)
- Hoffman, Henry H. (See Hoffman, Jeremiah M., assignor.)
- Hoffman, Howard, Belmar, N. J. Renewable sleeve for rotatable shafts. No. 1,139,120; May 11; Gaz. vol. 214; p. 531.
- Hoffman, Jeremiah M., assignor of one-half to H. H. Hoffman, Reading, Pa. Washing-machine agitator. No. 1,157,222; Oct. 19; Gaz. vol. 219; p. 718.
- Hoffman, John F., Toronto, Ontario, Canada. Cooling-liquid-supply valve for refrigerator plants. No. 1,150,518; Aug. 17; Gaz. vol. 217; p. 888.
- Hoffman, John N., Forest Grove, Oreg. Fruit and vegetable cleaner and potato-sprouter. No. 1,128,981; Feb. 16; Gaz. vol. 211; p. 901.
- Hoffman, John P., Albany, N. Y. Tooth-brush. No. 1,128,139; Feb. 9; Gaz. vol. 211; p. 558.
- Hoffman, John V., Bellwood, Neb. Lubricating device. No. 1,156,779; Oct. 12; Gaz. vol. 219; p. 531.
- Hoffman, Joseph. (See Kittka, Louis, assignor.)
- Hoffman, Joseph, Schenectady, N. Y. Water-power apparatus. No. 1,143,118; June 15; Gaz. vol. 215; p. 788.
- Hoffman Manufacturing Company Limited, The. (See Schmidt, Otto A., assignor.)
- Hoffman Manufacturing Company Limited, The. (See Weeks, George, assignor.)
- Hoffman, Marguerite. (See Jopling, Pearson, assignor.)
- Hoffman, Morris J., Chicago, Ill. Garment-shaper. No. 1,142,431; June 8; Gaz. vol. 215; p. 511.

Alphabetical list of patentees—Continued.

- Hoffman, Nick, C. L. Triplett, and T. D. and W. H. Fawcett, Pomeroy, Wash. Self-cleaning weed-cutter. No. 1,125,534; Jan. 19; Gaz. vol. 210; p. 901.
- Hoffman, Paul G. (See Smith, Sam R., assignor.)
- Hoffman, Peter A., Hastings, Minn. Envelop. No. 1,125,535; Jan. 19; Gaz. vol. 210; p. 901.
- Hoffman, Peter J., Bridgewater, S. D. Metal-punching mechanism for anvils. No. 1,158,499; Nov. 2; Gaz. vol. 220; p. 31.
- Hoffman, Peter L., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Trolley-track. No. 1,130,820; Mar. 9; Gaz. vol. 212; p. 375.
- Hoffman, Peter L., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Door-hanger. No. 1,150,192; Aug. 17; Gaz. vol. 217; p. 775.
- Hoffman, Peter L., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Bracket for trolley-tracks. No. 1,152,630; Sept. 7; Gaz. vol. 218; p. 92.
- Hoffman, Robert O., assignor of one-third to A. Lischkoff and one-third to T. E. Bird, Pensacola, Fla. Cigar-vending machine. No. 1,134,742; Apr. 6; Gaz. vol. 213; p. 241.
- Hoffman, Rudolph, Chicago Heights, assignor to Sears, Roebuck and Company, Chicago, Ill. Blue-flame oil-burner. No. 1,154,637; Sept. 28; Gaz. vol. 218; p. 898.
- Hoffman Specialty Company. (See Hoffman, George D., assignor.)
- Hoffman, William A., Hazelton, Pa. Apparatus for treating ores. No. 1,150,367; Aug. 17; Gaz. vol. 217; p. 837.
- Hoffman, William E., Sunbury, Pa. Bottle bolder and pouring device. No. 1,166,209; Dec. 28; Gaz. vol. 221; p. 1343.
- Hoffman, William F. (See Gorton, William E., assignor.)
- Hoffmann, Ernst G., deceased, New Rochelle, N. Y.; A. W. Kiddle and A. M. Becker, executors. Electric motor. No. 1,129,036; Feb. 16; Gaz. vol. 211; p. 920.
- Hoffmann, Hermann, assignor to Telepentograph-Gesellschaft mit beschränkter Haftung, Bremen, Germany. System of electrically transmitting signs. No. 1,142,572; June 8; Gaz. vol. 215; p. 559.
- Hoffmann, Ignatz, Ford City, assignor of one-half to F. Kutschenreiter, Springdale, Pa. Rail-joint. No. 1,159,671; Nov. 9; Gaz. vol. 220; p. 473.
- Hoffmann, John H., San Francisco, Cal. Tape-measure. No. 1,145,244; July 6; Gaz. vol. 216; p. 95.
- Hoffmann-La Roche Chemical Works, The. (See Hug, Ernst, assignor.)
- Hoffmann, William F., Springfield, Ohio, assignor, by mesne assignments, to Western Electric Company, New York, N. Y. Impulse-transmitter. No. 1,124,021; Jan. 5; Gaz. vol. 210; p. 279.
- Hoffner, John W., Salisbury, N. C. Automatic automobile engine-starter. No. 1,165,506; Dec. 28; Gaz. vol. 221; p. 1092.
- Hofman, Josef, Mont Pelerin, Switzerland. Pneumatic spring. No. 1,151,591; Aug. 31; Gaz. vol. 217; p. 1360.
- Hoffmann, Ernst, Duisburg, Melderich, Germany. Apparatus for cooling and purifying furnace-gases. No. 1,155,237; Sept. 28; Gaz. vol. 218; p. 1101.
- Hoffmann, Fritz, and K. Gottlob, Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Vulcanization of rubber and production of vulcanized-rubber products. No. 1,126,469; Jan. 26; Gaz. vol. 210; p. 1269.
- Hoffmann, Fritz, and K. Gottlob, Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Production of vulcanized synthetic caoutchouc. No. 1,130,903; Mar. 9; Gaz. vol. 212; p. 404.
- Hoffmann, Fritz, Elberfeld, and K. Gottlob, Vohwinkel, near Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Caoutchouc substance and vulcanization product thereof. No. 1,149,580; Aug. 10; Gaz. vol. 217; p. 492.
- Hoffmann, George, assignor of one-half to R. Holding, Lyons, Iowa. Change-making machine. No. 1,136,801; Apr. 20; Gaz. vol. 213; p. 1045.
- Hofmann, Walter H., Richmond Hill, N. Y. Molding apparatus. No. 1,152,631; Sept. 7; Gaz. vol. 218; p. 92.
- Hofrichter, Charles H., Cleveland, Ohio. Lamp-fixture. No. 1,145,588; July 6; Gaz. vol. 216; p. 213.
- Hofstrand, Oskar, Brooklyn, N. Y. Power device. No. 1,164,185; Dec. 14; Gaz. vol. 221; p. 552.
- Hogan, Charles H., Gloversville, N. Y. Chimney-cowl. No. 1,159,672; Nov. 9; Gaz. vol. 220; p. 473.
- Hogan, Denis F., St. Paul, Minn. Derrick. No. 1,135,799; Apr. 13; Gaz. vol. 213; p. 650.
- Hogan, Enos W., Banning, Ontario, Canada. Grain-car door. No. 1,153,787; Sept. 14; Gaz. vol. 218; p. 541.
- Hogan, Frank R., Verona, Pa. Poultry-decapitator. No. 1,149,517; Aug. 10; Gaz. vol. 217; p. 470.
- Hogan, George L., Chicago, Ill., assignor to Kerosene Utilities Company. Vapor-burning apparatus. No. 1,158,687; Nov. 2; Gaz. vol. 220; p. 97.
- Hogan, Henry G., Indianapolis, Ind. Packing for pistons and valve-stems. No. 1,162,062; Nov. 30; Gaz. vol. 220; p. 1463.
- Hogan, John J., West Haven, assignor to J. E. Hubinger, New Haven, Conn. Lubrication of internal-combustion engines. No. 1,157,308; Oct. 19; Gaz. vol. 219; p. 749.
- Hogan, John L., Jr. (See Lee and Hogan.)
- Hogan, John L., Jr., New York, N. Y., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Oscillating-current meter. No. 1,152,632; Sept. 7; Gaz. vol. 218; p. 93.
- Hogan, Joseph H., Chicago, Ill. Vending-machine. No. 1,133,143; Mar. 23; Gaz. vol. 212; p. 1288.
- Hogan, Newton, Los Angeles, Cal. Protector for trees or other vegetation. No. 1,155,313; Sept. 28; Gaz. vol. 218; p. 1126.
- Hogan, Thomas I. (See Fatherson and Hogan.)
- Hogarth, James, Deadwood, S. D. Milling attachment for lathes. No. 1,126,763; Feb. 2; Gaz. vol. 211; p. 35.
- Hoge Manufacturing Company, The. (See Barbour, Robert P., assignor.)
- Hoge Manufacturing Company, The. (See Clark, Gordon H., assignor.)
- Hogg, Frederic W., The Dalles, Oreg. Pneumatically-operated window-cleaner. No. 1,144,203; June 22; Gaz. vol. 215; p. 1192.
- Hogg, John W., Jr., Schenectady, N. Y. Window-fastening. No. 1,137,321; Apr. 27; Gaz. vol. 213; p. 1271.
- Hogg, Leonard J., Philadelphia, Pa. Receptacle for cards. No. 1,130,597; Mar. 2; Gaz. vol. 212; p. 265.
- Hoggson, Samuel H., Arlington, N. J. Motometer. No. 1,133,646; Mar. 30; Gaz. vol. 212; p. 1504.
- Hogin, Oscar. (See Rumsey, James W., assignor.) (Re-issue.)
- Hogl, Khabanus J., Wheeling, W. Va. Puzzle. No. 1,138,108; May 4; Gaz. vol. 214; p. 137.
- Hogle, Robert L., Castella, Cal. Gage-cock. No. 1,128,982; Feb. 16; Gaz. vol. 211; p. 901.
- Hogle, William M., Detroit, Mich. Fuel-reserve attachment for supply-tanks. No. 1,135,018; Apr. 13; Gaz. vol. 213; p. 379.
- Hoglund, Eric. (See Strom and Hoglund.)
- Höglund, Hans O., Christiania, Norway. Lock. No. 1,133,962; Mar. 30; Gaz. vol. 212; p. 1613.
- Hogue, Fredric M., et al. (See Hoover, George S., assignor.)
- Hohl, Clemens, and D. Baldwin, Green River, Utah. Umbrella-supporting device. No. 1,162,608; Nov. 30; Gaz. vol. 220; p. 1649.
- Hohmann, Adolph, assignor of one-third to C. C. Fisher, Cleveland, and one-third to H. Zelinski, West Park, Ohio. Universal joint. No. 1,123,533; Jan. 5; Gaz. vol. 210; p. 115.
- Hohmann, Richard K., Belvidere, Ill. Sewing-machine. No. 1,150,368; Aug. 17; Gaz. vol. 217; p. 837.
- Hohmann, Richard K., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing-machine. No. 1,164,648; Dec. 21; Gaz. vol. 221; p. 755.
- Höhne, Arno, and H. Krake, Leipzig, Germany. Means for opening and closing doors. No. 1,129,391; Feb. 23; Gaz. vol. 211; p. 1079.
- Hohner, William, Unioncourse, assignor to R. Hoe & Co., New York, N. Y. Plate-clamp. No. 1,159,941; Nov. 9; Gaz. vol. 220; p. 573.
- Holles, Frank A., Alliance, Ohio. Ornamenting bricks. No. 1,154,118; Sept. 21; Gaz. vol. 218; p. 691.
- Holt, Henry M., Lower Naches Valley, Wash. Apple-gage. No. 1,142,573; June 8; Gaz. vol. 215; p. 560.
- Holtzinger, Ulbe S., assignor to Gebroeders Verkhoven, Witmarsum, Netherlands. Calendar-clock. No. 1,153,492; Sept. 14; Gaz. vol. 218; p. 438.
- Hoke, Frederick, assignor to Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Hot-plate-heating means for corn-copping machines and the like. No. 1,152,950; Sept. 7; Gaz. vol. 218; p. 209.
- Hoke, Harry A., Altoona, Pa. Locomotive smoke-lifter. No. 1,130,733; Mar. 9; Gaz. vol. 212; p. 345.
- Hoke, James R. and Q. J., and P. Michaels, Hendersonville, N. C. Razor. No. 1,161,311; Nov. 23; Gaz. vol. 220; p. 1155.
- Hoke, John I., Frankfort, Ind. Tractor. No. 1,159,223; Nov. 2; Gaz. vol. 220; p. 283.
- Hoke, Quinton J. (See Hoke and Michaels.)
- Holben, Daniel D., and B. F. Frantz, Allentown, Pa. Slip-sheeting machine. No. 1,152,090; Aug. 31; Gaz. vol. 217; p. 1533.
- Holbrook, Frank, and J. J. Donlon, Lynn, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Finishing-machine. No. 1,165,600; Dec. 28; Gaz. vol. 221; p. 1125.
- Holbrook, Herbert H., Arcadia, Okla. Hat-box. No. 1,157,538; Oct. 19; Gaz. vol. 219; p. 830.
- Holbrook, John, Byesville, Ohio. Crate. No. 1,156,230; Oct. 12; Gaz. vol. 219; p. 338.
- Holbrook, John K., Newark, assignor to D. S. Plumb, East Orange, N. J. Apparatus for reproducing views in color. No. 1,151,786; Aug. 31; Gaz. vol. 217; p. 1427.
- Holbrook, John K., Newark, assignor to D. S. Plumb, East Orange, N. J. Projection apparatus for reproducing views in color. No. 1,151,787; Aug. 31; Gaz. vol. 217; p. 1427.
- Holbrook, Rolfe R., Detroit, assignor of two-thirds to H. E. Marshall, Highland Park, Mich. Device for preventing reusing of bottles. No. 1,151,102; Aug. 24; Gaz. vol. 217; p. 1146.
- Holby, Hilbert S. (See Cramp, Joseph C., assignor.)
- Holcomb & Hoke Mfg. Co. (See Hoke, Frederick, assignor.)

Alphabetical list of patentees—Continued.

- Holcomb, Lewis H., Columbus, Ohio. Valve-lifter. No. 1,157,223; Oct. 19; Gaz. vol. 219; p. 719.
- Holcomb, Thomas W., Rochester, N. Y. Print-developing apparatus. No. 1,125,098; Jan. 19; Gaz. vol. 210; p. 746.
- Holcomb, Thomas W., New York, N. Y. Conveyer means for blue-print developing and drying apparatus. No. 1,126,637; Jan. 26; Gaz. vol. 210; p. 1333.
- Holcomb, William H., Chicago, Ill. Tennis-court-marking-tape outfit. No. 1,142,039; June 8; Gaz. vol. 215; p. 372.
- Holcombe, Caroline, administratrix. (See Holcombe, Clyde N.)
- Holcombe, Clyde N., deceased; C. Holcombe, administratrix, assignor to C. Holcombe, New Rochelle, N. Y. Electropneumatic brake. No. 1,134,853; Apr. 6; Gaz. vol. 213; p. 277.
- Holden, Arthur P., and R. J. Copeland, Toronto, Ontario, Canada. Air-vending machine. No. 1,156,078; Oct. 12; Gaz. vol. 219; p. 288.
- Holden, Charles L., Indianapolis, Ind. Water-heater. No. 1,146,566; July 13; Gaz. vol. 216; p. 579.
- Holden, Henry C. L., assignor to The United Motor Industries, Limited, London, England. Lamp-holder. No. 1,133,231; Mar. 23; Gaz. vol. 212; p. 1318.
- Holden, Hiram, Manchester, N. H. Cementing-machine. No. 1,138,565; May 4; Gaz. vol. 214; p. 294.
- Holden, Holden, East Newark, N. J. Ladder-bracket. No. 1,154,923; Sept. 28; Gaz. vol. 218; p. 994.
- Holden, Newton, New York, N. Y., assignor to Holden One Man Top Company, Inc. Folding top for vehicles. No. 1,146,162; July 13; Gaz. vol. 216; p. 436.
- Holden, Newton, New York, N. Y., assignor to Holden One Man Top Company, Inc. Folding top for vehicles. No. 1,147,091; July 9; Gaz. vol. 216; p. 780.
- Holden, Newton, New York, N. Y., assignor to Holden One Man Top Company, Inc. Folding top for vehicles. No. 1,155,728; Oct. 5; Gaz. vol. 219; p. 141.
- Holden One Man Top Company. (See Holden, Newton, assignor.)
- Holder, Robert A., et al. (See Moore, Chauncey H., assignor.)
- Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Garment-supporter. No. 1,130,821; Mar. 9; Gaz. vol. 212; p. 375.
- Holden, William P. (See Zigler and Holden.)
- Holdensen, Peter, Roslindale, Mass. Curtain-fixture. No. 1,147,944; July 27; Gaz. vol. 216; p. 1106.
- Holder, Grover C., Altoona, Pa. Alloy. No. 1,127,624; Feb. 9; Gaz. vol. 211; p. 374.
- Holder, William H., Scranton, Pa. Glass or mirror fastener. No. 1,155,924; Oct. 5; Gaz. vol. 219; p. 208.
- Holderbaum, Charles W., and H. Kraft, Warren, Ark. Safety device for switch-stands. No. 1,154,513; Sept. 21; Gaz. vol. 218; p. 825.
- Holderer, Otto H., Detroit, Mich. Floor-surfacing machine. No. 1,142,961; June 15; Gaz. vol. 215; p. 733.
- Holderman, William E., Salt Lake City, Utah. Filtering apparatus. No. 1,146,256; July 13; Gaz. vol. 216; p. 469.
- Holderman, William E., Salt Lake City, Utah. Filtering apparatus. No. 1,150,369; Aug. 17; Gaz. vol. 217; p. 837.
- Holding, Robert. (See Hofmann, George, assignor.)
- Holdred, Frank R., assignor to The Warren Featherbone Co., Three Oaks, Mich. Wire-working machine. No. 1,155,729; Oct. 5; Gaz. vol. 219; p. 141.
- Holdridge, Pliny B., North Yakima, Wash. Harrow and the like. No. 1,146,072; July 13; Gaz. vol. 216; p. 404.
- Hole, Charles C., Fremont, Nebr. Wrench. No. 1,128,983; Feb. 16; Gaz. vol. 211; p. 901.
- Hole, Charles C., Fremont, Nebr. Train-stopping apparatus. No. 1,139,525; May 18; Gaz. vol. 214; p. 707.
- Hole, Charles C., Fremont, Nebr. Exhaust-utilizing system for automobiles. No. 1,143,395; June 15; Gaz. vol. 215; p. 888.
- Hole, Charles C., Fremont, Nebr. Shutter for headlights. No. 1,149,053; Aug. 3; Gaz. vol. 217; p. 201.
- Hole, Charles C., Fremont, assignor of one-half to R. W. Shivers, Scribner, Nebr. Umbrella. No. 1,145,310; July 6; Gaz. vol. 216; p. 116.
- Holek, John, Milwaukee, Wis. Dish-washing machine. No. 1,159,768; Nov. 9; Gaz. vol. 220; p. 509.
- Holford, William A., et al. (See Moore, Charles P., assignor.)
- Holgerson, Otto, Peabody, Kans. Collapsible chair. No. 1,127,247; Feb. 2; Gaz. vol. 211; p. 205.
- Holicky, John G., Willoughby, Ohio. Canvas-stretcher. No. 1,139,526; May 18; Gaz. vol. 214; p. 708.
- Holicky, John G., Willoughby, Ohio. Dirigible automobile-headlight. No. 1,154,863; Sept. 28; Gaz. vol. 218; p. 972.
- Hollen, Albert, Maynard, Minn. Sash-holder. No. 1,151,181; Aug. 24; Gaz. vol. 217; p. 1174.
- Holik, Joseph, Ennis, Tex. Handle-protector. No. 1,128,871; Feb. 16; Gaz. vol. 211; p. 860.
- Holl, Charles, Strassburg, Alsace, Germany. Cuff-fastener. No. 1,163,148; Dec. 7; Gaz. vol. 221; p. 144.
- Holl, Franz, Worms-on-the-Rhine, Germany. Pneumatic sifter. No. 1,159,030; Nov. 2; Gaz. vol. 220; p. 214.
- Holladay, James W., et al. (See Rodecker, Charles W., assignor.)
- Holladay, John M., Holladay, Va. Loom. No. 1,128,872; Feb. 16; Gaz. vol. 211; p. 860.
- Holland, Anna L., New York, N. Y. Drapery-pole support. No. 1,134,535; Apr. 6; Gaz. vol. 213; p. 165.
- Holland, Charles G. (See Penzer and Holland.)
- Holland, Charles R. and C. C., Taylorville, Ill. Harrow attachment for plows. No. 1,129,981; Mar. 2; Gaz. vol. 212; p. 50.
- Holland, Christopher C. (See Holland, Charles R. and C. C.)
- Holland, George H. (See Deady and Holland.)
- Holland, Gordon F., Revere, Mass. Portable photographic-dark-room lantern attachment. No. 1,145,589; July 6; Gaz. vol. 216; p. 213.
- Holland, Harold M. (See Green, Allen A., assignor.)
- Holland, Harry H., and J. C. Stearns, Worcester, Mass.; said Holland assignor to said Stearns. Focusing device for electric lamps. No. 1,137,322; Apr. 27; Gaz. vol. 213; p. 1271.
- Holland, James H., assignor of one-half to C. M. Settle, Atlanta, Ga. Automatic drain or relief valve. No. 1,124,437; Jan. 12; Gaz. vol. 210; p. 475.
- Holland, James T., Sayre, Okla. Cultivator. No. 1,161,674; Nov. 23; Gaz. vol. 220; p. 1281.
- Holland, John A., et al. (See Whitcomb, Carlton L., assignor.)
- Holland, John A., assignor to The John Holland Gold Pen Company, Cincinnati, Ohio. Fountain-pen. No. 1,152,509; Sept. 7; Gaz. vol. 218; p. 46.
- Holland, Luther W., Pleasant Hill, Mo. Lock. No. 1,147,092; July 20; Gaz. vol. 216; p. 781.
- Holland, Maurice, Providence, R. I. License-tag bracket. No. 1,156,685; Oct. 12; Gaz. vol. 219; p. 499.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-recorder. No. 1,131,782; Mar. 16; Gaz. vol. 212; p. 744.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-reproducer. No. 1,137,487; Apr. 27; Gaz. vol. 213; p. 1329.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 1,155,572; Oct. 5; Gaz. vol. 219; p. 86.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Starting and stopping mechanism. No. 1,162,779; Dec. 7; Gaz. vol. 221; p. 17.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Motor. No. 1,162,780; Dec. 7; Gaz. vol. 221; p. 17.
- Holland, Newman H., West Orange, and N. C. Durand, Newark, assignors, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Motor-cabinet. No. 1,150,519; Aug. 17; Gaz. vol. 217; p. 888.
- Holland, Richard, and F. J. Dunn, Detroit, Mich. Platen-press gripper. No. 1,142,040; June 8; Gaz. vol. 215; p. 372.
- Holland, Thomas O., Philadelphia, Pa. Combined card case and tray. No. 1,126,470; Jan. 26; Gaz. vol. 210; p. 1270.
- Holland, Thomas S., Tacoma, Wash. Silo. No. 1,129,677; Feb. 23; Gaz. vol. 211; p. 1177.
- Holland, Walter E., East Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Combined filling and gas valve for storage batteries. No. 1,165,100; Dec. 21; Gaz. vol. 221; p. 913.
- Hollar, William H. (See Marvel, Edward W., assignor.)
- Holloway, Clarence. (See Broadwell and Holloway.)
- Hollenbeck, Walter E., Marion, Iowa. Interchangeable screen and storm-sash. No. 1,147,093; July 20; Gaz. vol. 216; p. 781.
- Hollerith, Herman, Washington, D. C. Card-testing device. No. 1,132,345; Mar. 16; Gaz. vol. 212; p. 949.
- Holley, Clarence M., and J. List, assignors to Utility Compressor Co., Detroit, Mich. Valve. No. 1,166,210; Dec. 28; Gaz. vol. 221; p. 1343.
- Holley, Clifford D., St. Louis, Mo., assignor to Acme White Lead and Color Works, Detroit, Mich. Making pigments. No. 1,123,743; Jan. 5; Gaz. vol. 210; p. 186.
- Holley, Clifford D., assignor to Acme White Lead and Color Works, Detroit, Mich. Process of and apparatus for comminuting lead. No. 1,156,079; Oct. 12; Gaz. vol. 219; p. 289.
- Holliday, John S., Wilkesburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,127,438; Feb. 9; Gaz. vol. 211; p. 311.
- Holliday, John S., Wilkesburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,147,169; July 20; Gaz. vol. 216; p. 807.
- Holliday, John S., Wilkesburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric motor. No. 1,147,170; July 20; Gaz. vol. 216; p. 808.
- Holliday, John S., Wilkesburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of electric motors. No. 1,147,171; July 20; Gaz. vol. 216; p. 808.
- Holliday, Jonathan, Togo, Saskatchewan, Canada. Brake attachment to vehicles. No. 1,138,871; May 11; Gaz. vol. 214; p. 443.

Alphabetical list of patentees—Continued.

- Hollen, Richard, Nahant, Mass. Novelty purchase-board. No. 1,145,417; July 6; Gaz. vol. 216; p. 154.
- Hollier, Walter J., St. Louis, Mo. Machine for decortivating fibrous plants. No. 1,127,439; Feb. 9; Gaz. vol. 211; p. 312.
- Hollier, Walter J., St. Louis, Mo. Machine for decortivating fibrous plants. No. 1,155,730; Oct. 5; Gaz. vol. 219; p. 141.
- Hollier, Walter J., St. Louis, Mo. Machine for decortivating fibrous plants. No. 1,157,780; Oct. 26; Gaz. vol. 219; p. 974.
- Hollinfield, Horatio B., Washington, D. C. Practice apparatus for small firms. No. 1,130,402; Mar. 2; Gaz. vol. 212; p. 195.
- Hollingshead, Richard M., Riverton, N. J. Sprinkler screw-cap. No. 1,125,322; Jan. 19; Gaz. vol. 210; p. 827.
- Hollingshead, Richard M., Riverton, N. J. Closure for receptacles. No. 1,150,596; Aug. 17; Gaz. vol. 217; p. 916.
- Hollingsworth, George W., Cincinnati, assignor to The National Cash Register Company, Dayton, Ohio. Automatic change-maker. No. 1,140,458; May 25; Gaz. vol. 214; p. 1071.
- Hollingsworth, Jephtha G., Kansas City, Mo. Dental matrix for approximal fillings. No. 1,133,379; Mar. 30; Gaz. vol. 212; p. 1408.
- Hollingsworth & Whitney Company. (See Stobie, William H., assignor.)
- Hollingsworth & Vose Co., The. (See Sheehan, Owen, assignor.)
- Hollingworth, Alfred C. (See Johnson and Hollingworth.)
- Hollingworth, Edward, Dobercross, England. Pick-finder mechanism employed in looms for weaving. No. 1,156,007; Oct. 5; Gaz. vol. 219; p. 236.
- Hollins, Denis M., Blackburn, England, assignor to Draper Company, Hopedale, Mass. Feeler-motion for web-replenishing looms having movable shuttle-boxes. No. 1,130,598; Mar. 2; Gaz. vol. 212; p. 265.
- Hollins, Denis M., Blackburn, England, assignor to Draper Company, Hopedale, Mass. Take-up motion of looms for weaving. No. 1,130,599; Mar. 2; Gaz. vol. 212; p. 265.
- Hollis, Albert L., et al. (See Lovejoy, Harvey P., assignor.)
- Hollis, Harry W., Chehalis, Wash. Silo. No. 1,148,320; July 27; Gaz. vol. 216; p. 1242.
- Hollis, Joseph, Leicester, England. Wood-trimmer and the like. No. 1,144,844; June 29; Gaz. vol. 215; p. 1441.
- Hollis, Joseph, assignor to J. E. McLain, Canton, Ohio. Trolley mechanism. No. 1,146,877; July 20; Gaz. vol. 216; p. 705.
- Hollis, Miles S., New York, N. Y. Stop-cock. No. 1,134,678; Apr. 6; Gaz. vol. 213; p. 217.
- Hollis, Otis A., Pittsburgh, Pa. Collapsible drinking-cup. No. 1,154,185; Sept. 21; Gaz. vol. 218; p. 713.
- Holloman, Thomas M., Evansville, Ind. Folding shipping-case. No. 1,136,802; Apr. 20; Gaz. vol. 213; p. 1046.
- Holloway, John H., La Fayette, Ind. Means for treating kerosene or the like for use in hydrocarbon-engines. No. 1,160,897; Nov. 16; Gaz. vol. 220; p. 961.
- Holloway, William M., Austin, assignor to Charles W. Shonk Company, Chicago, Ill. Coin-actuated mechanism. No. 1,131,628; Mar. 9; Gaz. vol. 212; p. 653.
- Hollowell, James S. (See Gottschalk and Hollowell.)
- Hollstein, Paul G., Carlstadt, N. J., assignor to J. M. Lehmann Company, New York, N. Y. Grinding-mill. No. 1,153,918; Sept. 21; Gaz. vol. 218; p. 622.
- Hollstein, Paul G., Carlstadt, N. J., assignor to J. M. Lehmann Company, New York, N. Y. Melting-kettle. No. 1,154,772; Sept. 28; Gaz. vol. 218; p. 943.
- Hollstein, Walter H., Lakewood, Ohio. Device for indicating the horse-power of an engine. No. 1,159,769; Nov. 9; Gaz. vol. 220; p. 510.
- Holly, Alice C., Fredonia, Kans. Garment-stay clasp. No. 1,165,173; Dec. 21; Gaz. vol. 221; p. 939.
- Holly, Carlos, Lockport, N. Y., assignor, by mesne assignments, to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Machine for making boxes. No. 1,158,211; Oct. 26; Gaz. vol. 219; p. 1127.
- Holly, Edgar P., Boston, Mass., assignor to Holly Steam Engineering Company, New York, N. Y. Liquid-impelling device. No. 1,131,519; Mar. 9; Gaz. vol. 212; p. 616.
- Holly Steam Engineering Company. (See Holly, Edgar P., assignor.)
- Hollyday, James E. (See Kolf and Hollyday.)
- Holm, Hans P., assignor of one-half to H. H. Vogt, Davenport, Iowa. Food-slicing machine. No. 1,123,534; Jan. 5; Gaz. vol. 210; p. 116.
- Holman, Charles L., Hornersville, Mo. Device for catching reptiles. No. 1,148,587; Aug. 3; Gaz. vol. 217; p. 37.
- Holman, James A., Salida, Colo. Ant-trap. No. 1,126,216; Jan. 26; Gaz. vol. 210; p. 1180.
- Holmberg, Alfred, assignor of one-half to T. Malo, Central Falls, R. I. Framing-tool. No. 1,145,311; July 6; Gaz. vol. 216; p. 116.
- Holmes, Alfred E., assignor of one-half to W. J. Mohr, Chicago, Ill. Nut-lock. No. 1,145,991; July 13; Gaz. vol. 216; p. 375.
- Holmes, Alfred E., assignor of one-half to W. H. Plunkett, Chicago, Ill. Liquid-dispenser. No. 1,165,673; Dec. 28; Gaz. vol. 221; p. 1152.
- Holmes, Charles H., Brockton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Shoe-form. No. 1,137,141; Apr. 27; Gaz. vol. 213; p. 1204.
- Holmes, Christopher C., Pasadena, Cal. Signal apparatus for automobiles. No. 1,128,250; Feb. 9; Gaz. vol. 211; p. 595.
- Holmes, Davis F., New Orleans, La. Syrup-pitcher. No. 1,149,445; Aug. 10; Gaz. vol. 217; p. 445.
- Holmes, Erwin W., Jeffersonville, Vt. Evaporator. No. 1,153,788; Sept. 14; Gaz. vol. 218; p. 542.
- Holmes, Fletcher B., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Evaporation. No. 1,126,471; Jan. 26; Gaz. vol. 210; p. 1270.
- Holmes, Frederick M., Springfield, Mass. Twine cutting and retaining device. No. 1,138,756; May 11; Gaz. vol. 214; p. 401.
- Holmes, Grant. (See King, Holmes, Jacoby, and Roush.)
- Holmes, Grant. (See King, Weston, and Holmes.)
- Holmes, Grant. (See King, Weston, Roush, and Holmes.)
- Holmes, Harry C., Macomb, Ill. Mortar-hoe. No. 1,127,440; Feb. 9; Gaz. vol. 211; p. 312.
- Holmes, John H., Newcastle-upon-Tyne, England. Apparatus for dispensing liquids. No. 1,134,536; Apr. 6; Gaz. vol. 213; p. 165.
- Holmes, Joseph W., Newark, N. J. Last. No. 1,149,196; Aug. 10; Gaz. vol. 217; p. 354.
- Holmes, Joseph W., assignor of one-half to E. R. Sunde, Beach, N. D. Sidehill-plow hitch. No. 1,125,323; Jan. 19; Gaz. vol. 210; p. 827.
- Holmes, Major E., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Battery-depolarizer. No. 1,148,230; July 27; Gaz. vol. 216; p. 1207.
- Holmes, Minot K., assignor to Hemingway Glass Company, Muncie, Ind. Glass-working. No. 1,133,244; Mar. 23; Gaz. vol. 212; p. 1323.
- Holmes, Oscar J., St. Louis, Mo. Gas-exhauster for oil-tanks. No. 1,136,230; Apr. 20; Gaz. vol. 213; p. 842.
- Holmes, Oscar J., St. Louis, Mo. Fire apparatus for oil-tanks. No. 1,142,520; June 8; Gaz. vol. 215; p. 542.
- Holmes, Oscar J., assignor to Atlas Educational Film Co., Chicago, Ill. Film and sprocket drum. No. 1,144,414; June 29; Gaz. vol. 215; p. 1292.
- Holmes, Roger, New Orleans, La. Excavating-shovel. No. 1,155,153; Sept. 28; Gaz. vol. 218; p. 1075.
- Holmes, Roy N., assignor to The Advance Manufacturing Company, Minneapolis, Minn. Clothes-drier. No. 1,149,706; Aug. 10; Gaz. vol. 217; p. 561.
- Holmes, Thomas E., Nether Edge, assignor of one-half to Davy Brothers Limited, Sheffield, England. Hydraulic press. No. 1,149,518; Aug. 10; Gaz. vol. 217; p. 470.
- Holmes, Thomas E., Sheffield, England, assignor to United Engineering and Foundry Co., Pittsburgh, Pa. Mechanism for operating tables for forging-presses, shears, &c. No. 1,165,174; Dec. 21; Gaz. vol. 221; p. 939.
- Holmes, Thomas E., Nether Edge, Sheffield, England, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Apparatus for rolling hoops or tires. No. 1,165,175; Dec. 21; Gaz. vol. 221; p. 940.
- Holmes, William H., Chicago, Ill. Horseshoe's jack. No. 1,146,163; July 13; Gaz. vol. 216; p. 436.
- Holmes, William T. (See Whittingham and Holmes.)
- Holmgren, Peter, assignor of one-fourth to A. W. Handy, Beaverton, Oreg. Spoke-tightener for vehicle-wheels. No. 1,150,193; Aug. 17; Gaz. vol. 217; p. 776.
- Holmquest, Herman F., Lynbrook, N. Y. Valve for gas-engines. No. 1,147,023; July 20; Gaz. vol. 216; p. 757.
- Holmquist, Fred N., Weldon, Ill. Corrugated pipe. No. 1,140,981; May 25; Gaz. vol. 214; p. 1254.
- Holophane Glass Company. (See Mygatt, Otis A., assignor.)
- Holroyd, Charles, Pittsburgh, Pa. Water-wings. No. 1,132,346; Mar. 16; Gaz. vol. 212; p. 949.
- Holschemacher, Julius C. (See Daniels and Holschemacher.)
- Holscher, Chirley J., Cottage Grove, Wis. Band-knife. No. 1,137,973; May 4; Gaz. vol. 214; p. 88.
- Holscher, John W. (See Kuhlman, Henry J., assignor.)
- Holsclaw, William W., and F. Komp, Louisville, Ky. Barrel-hoist. No. 1,143,396; June 15; Gaz. vol. 215; p. 888.
- Holsey, L. L., et al. (See Holsey, Walter R., assignor.)
- Holsey, Walter R., assignor of one-half to P. F. Halbert, E. R. Glover, W. R. Kenner, J. T. Montfort, L. L. Holsey, Corsicana, and S. W. Johnson, Dallas, Tex. Knee-pad. No. 1,155,491; Oct. 5; Gaz. vol. 219; p. 59.
- Holsinger, Eugene, San Francisco, Cal. Reversible-window supporter. No. 1,132,520; Mar. 16; Gaz. vol. 212; p. 1013.
- Holsman, Gus D., and J. L. Rische, Chicago, Ill. Trousers-fastener. No. 1,146,778; July 20; Gaz. vol. 216; p. 706.
- Holst, George A., assignor to Pullman Couch Company, Chicago, Ill. Sofa-bed. No. 1,126,010; Jan. 26; Gaz. vol. 210; p. 1104.

Alphabetical list of patentees—Continued.

- Holst, Lodewyk J. R., Philadelphia, Pa. Telephotographic apparatus. No. 1,138,217; May 4; Gaz. vol. 214; p. 173.
- Holst, Louis J. R., assignor, by mesne assignments, to Lithotex Corporation, New York, N. Y. Means for computing circumferences or fractions thereof. No. 1,148,588; Aug. 3; Gaz. vol. 217; p. 37.
- Holst, Louis J. R., and O. Chouinard, assignors, by mesne assignments, to Lithotex Corporation, New York, N. Y. Step and repeat machine. No. 1,131,629; Mar. 9; Gaz. vol. 212; p. 654.
- Holsten, Richard, Charlottenburg, assignor to Siemens-Schuckertwerke G. m. b. H., Berlin, Germany. Electric lamp. No. 1,159,383; Nov. 9; Gaz. vol. 220; p. 370.
- Holt, August, Minneapolis, Minn. Holder for brake-beams. No. 1,129,094; Feb. 23; Gaz. vol. 211; p. 975.
- Holt, Benjamin, Stockton, Cal. Radiator. No. 1,143,967; June 22; Gaz. vol. 215; p. 1107.
- Holt, Benjamin, Stockton, Cal. Clutch device. No. 1,134,395; Sept. 21; Gaz. vol. 218; p. 786.
- Holt, Eugene and L., Burlington, N. C. Lease-forming device. No. 1,137,622; Apr. 27; Gaz. vol. 213; p. 1374.
- Holt, Frederick B. (See Schultz and Holt.)
- Holt, George H. (See McLean and Holt.)
- Holt, George W., assignor to J. Price, Poplar Bluff, Mo. Fly-trap. No. 1,159,384; Nov. 9; Gaz. vol. 220; p. 371.
- Holt, Harris B., Dormont borough, Pa. Strainer. No. 1,140,459; May 25; Gaz. vol. 214; p. 1071.
- Holt, Harry, Bury, England. Amusement device. No. 1,164,186; Dec. 14; Gaz. vol. 221; p. 552.
- Holt, Henry A., Wilton, N. H. Door-latch. No. 1,133,437; Mar. 30; Gaz. vol. 212; p. 1428.
- Holt, James, Wallasey, England. Siphon flushing-cistern. No. 1,154,186; Sept. 21; Gaz. vol. 218; p. 713.
- Holt, John H., Lawrenceburg, Tenn. Vehicle-scootch. No. 1,141,795; June 1; Gaz. vol. 215; p. 249.
- Holt, John R., and C. L. Rippey, Los Angeles, assignors of one-third to I. A. Smith, Long Beach, Cal. Dirigible fender. No. 1,146,937; July 20; Gaz. vol. 216; p. 727.
- Holt, John W., St. Joseph, Mo. Automatic shock-absorber. No. 1,123,744; Jan. 5; Gaz. vol. 210; p. 187.
- Holt, Lafayette. (See Holt, Eugene and L.)
- Holt, Mathew S. (See McKenney, Frank B., assignor.)
- Holt, Pliny E., Stockton, Cal. Radiator. No. 1,124,740; Jan. 12; Gaz. vol. 210; p. 584.
- Holt, Pliny E., Piedmont, Cal. Autotractor. No. 1,140,823; May 25; Gaz. vol. 214; p. 1197.
- Holt, Pliny E., Stockton, Cal. Autotractor-crane. No. 1,159,841; Nov. 9; Gaz. vol. 220; p. 537.
- Holt, Robert J. (See Kaufmann and Holt.)
- Holt, Thomas. (See Forbes and Holt.)
- Holt, Thomas, Walslow, Bury, England. Manufacture of woven fabrics. No. 1,166,211; Dec. 28; Gaz. vol. 221; p. 1345.
- Holt, William. (See Brooks and Holt.)
- Holt, William A., assignor to The Mebane Bedding Company, Inc., Mebane, N. C. Wire mattress fabric. No. 1,129,392; Feb. 23; Gaz. vol. 211; p. 1080.
- Holtby, Wilkie H., assignor of one-half to K. M. Simmons, Hobart, Okla. Tire-rest. No. 1,132,477; Mar. 16; Gaz. vol. 212; p. 995.
- Holter, Alfred, Rjukan, Norway. Button-fixture. No. 1,156,231; Oct. 12; Gaz. vol. 219; p. 339.
- Holter, Gustave, Seattle, Wash. Hydraulic motor. No. 1,160,510; Nov. 16; Gaz. vol. 220; p. 823.
- Holtgrave, Ernst, Brooklyn, N. Y. Scissors or shears. No. 1,152,633; Sept. 7; Gaz. vol. 218; p. 93.
- Holthaus, George A., and J. H. Ulbricht, St. Louis, Mo. Calf or colt weaner. No. 1,123,745; Jan. 5; Gaz. vol. 210; p. 187.
- Holton-Abbott Manufacturing Company. (See Holton, Edwin C., assignor.)
- Holton, Abby T., Concord, Vt. Egg-case. No. 1,124,438; Jan. 12; Gaz. vol. 210; p. 475.
- Holton, Edwin C., assignor to Holton-Abbott Manufacturing Company, Somerville, Mass. Making reinforced handles. No. 1,128,251; Feb. 9; Gaz. vol. 211; p. 596.
- Holton, Edwin C., assignor to Holton-Abbott Manufacturing Company, Somerville, Mass. Reinforced handle. No. 1,132,093; Mar. 16; Gaz. vol. 212; p. 855.
- Holtz, Frederick W., Chicago, Ill. Auto-wheel. No. 1,125,324; Jan. 19; Gaz. vol. 210; p. 827.
- Holtz, Gustav, Gouldsboro, Pa. Artificial-tooth facing and backing therefor. No. 1,157,309; Oct. 19; Gaz. vol. 219; p. 750.
- Holtz, Peter H., Evansville, Ind. Internal-combustion turbine. No. 1,146,707; July 13; Gaz. vol. 216; p. 626.
- Holtzapple, George L., et al. (See Moore, Chauncey H., assignor.)
- Holtzclaw, Sidney, Kansas City, Kans., and D. H. Garnett, Kansas City, Mo. Cigarette-case. No. 1,140,305; May 18; Gaz. vol. 214; p. 981.
- Holtzer-Cabot Electric Company, The. (See Balcome, Herbert A., assignor.)
- Holtzer-Cabot Electric Company, The. (See Kennedy, Carlton L., assignor.)
- Holtzman, Abraham L., Philadelphia, Pa. Shaving-brush holder. No. 1,128,984; Feb. 16; Gaz. vol. 211; p. 902.
- Holub, Charles J., Newport, Ky., assignor to The Williamson Heater Company, Cincinnati, Ohio. Sheet-metal cutter. No. 1,154,924; Sept. 28; Gaz. vol. 218; p. 994.
- Holub, Charles J., Newport, Ky., assignor to The Peck-Williamson Company, Cincinnati, Ohio. Pipe-forming machine. No. 1,160,606; Nov. 16; Gaz. vol. 220; p. 858.
- Holwick, Daniel L. (See Criswell, Benjamin H., assignor.)
- Holybee, Charles F., Hotchkiss, Colo. Plate-holder. No. 1,159,673; Nov. 9; Gaz. vol. 220; p. 473.
- Holyoke Machine Company. (See Lombard, Nathaniel, assignor.)
- Holz, Carl, Fulham, England. Apparatus for preventing and removing deposit of moisture on windows, &c. No. 1,158,218; Oct. 26; Gaz. vol. 219; p. 1129.
- Holz, Hermann, assignor to Scientific Materials Company, Pittsburgh, Pa. Scale-cabinet. No. 1,151,788; Aug. 31; Gaz. vol. 217; p. 1427.
- Holzappel, Valentine, Jr., Bayonne, N. J. Electric battery. No. 1,132,846; Mar. 23; Gaz. vol. 212; p. 1181.
- Holze, Edwin J., Martin, Tex. Transmission-gearing. No. 1,165,258; Dec. 21; Gaz. vol. 221; p. 969.
- Holzer, Hiram A., Pittsburg, Kans., assignor to United Iron Works Company, Springfield, Mo. Mine-car wheel. No. 1,144,302; June 22; Gaz. vol. 215; p. 1226.
- Holzer, Richard J., White Plains, N. Y. Double-seat faucet. No. 1,163,236; Dec. 7; Gaz. vol. 221; p. 175.
- Holzmark, Isaac, St. Louis, Mo. Shoemaker's jack. No. 1,131,837; Mar. 16; Gaz. vol. 212; p. 765.
- Holzworth, William C. (See McHail, James, assignor.)
- Homan, Irwin B., Lebanon, Pa. Spring-clamp. No. 1,134,131; Apr. 6; Gaz. vol. 213; p. 17.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Linotype-machine. No. 1,127,625; Feb. 9; Gaz. vol. 211; p. 374.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Linotype-machine. No. 1,130,600; Mar. 2; Gaz. vol. 212; p. 266.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Vise-automatic. No. 1,139,420; May 11; Gaz. vol. 214; p. 635.
- Homas, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Ejector mechanism for line-casting machines. No. 1,142,757; June 8; Gaz. vol. 215; p. 621.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Matrix-magazine for typographical machines. No. 1,142,758; June 8; Gaz. vol. 215; p. 621.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Assembler for line-composing machines. No. 1,149,767; Aug. 10; Gaz. vol. 217; p. 561.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Line-composing machine. No. 1,149,768; Aug. 10; Gaz. vol. 217; p. 562.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Linotype-machine. No. 1,153,078; Sept. 7; Gaz. vol. 218; p. 252.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Line-composing machine. No. 1,153,079; Sept. 7; Gaz. vol. 218; p. 253.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Typographical machine. No. 1,153,080; Sept. 7; Gaz. vol. 218; p. 253.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Typographical machine. No. 1,156,031; Oct. 5; Gaz. vol. 219; p. 245.
- Homans, Thomas S., Hempstead, assignor to International Typesetting Machine Company, New York, N. Y. Typographical machine. No. 1,161,803; Nov. 23; Gaz. vol. 220; p. 1326.
- Home Ironing Board Company. (See Hoffine, Fred G., assignor.)
- Homersham, Thomas H. C., Bradford, England. Centrifugal blower and other centrifugal machine of a similar nature. No. 1,136,877; Apr. 20; Gaz. vol. 213; p. 1072.
- Homewood, Charles, Waterloo, Iowa. Swimming apparatus. No. 1,128,682; Feb. 16; Gaz. vol. 211; p. 794.
- Homewood, Harry, and F. G. Normant, Fresno, Cal. Registering device for repeating firearms. No. 1,128,784; Feb. 16; Gaz. vol. 211; p. 829.
- Homeyer, Henry F. (See Jones, Alfred J., assignor.)
- Homrighausen, Louis H., Osawatimie, Kans. Vehicle wheel-tread. No. 1,155,925; Oct. 5; Gaz. vol. 219; p. 208.
- Homrighous, Reber. (See Grievé, James, assignor.)
- Honecker, Charles A., Chicago, Ill., assignor to Automatic Utilities Co. Loose-leaf index. No. 1,148,680; Aug. 3; Gaz. vol. 217; p. 71.
- Honegger, Henry, Milan, Italy. Watch-casing. No. 1,128,873; Feb. 16; Gaz. vol. 211; p. 860.
- Honegger, Hermann, et al. (See Büchl, Alfred, assignor.)
- Honegger, Wilhelm, et al. (See Büchl, Alfred, assignor.)

Alphabetical list of patentees—Continued.

- Honens, Frederick W., Sterling, Ill. Studding-socket. No. 1,162,164; Nov. 30; Gaz. vol. 220; p. 1499.
- Honeywell Heating Specialty Company, The. (See Jewell, Charles E., assignor.)
- Honhorst, William C., Newport, Ky. Jacketed tank. No. 1,155,731; Oct. 5; Gaz. vol. 219; p. 142.
- Hönicke, Eduard, assignor of one-half to Kessel & Co., Hamburg, Germany. Shoe-nailing machine. No. 1,127,891; Feb. 9; Gaz. vol. 211; p. 472.
- Honigsmann, Hans, Duluth, Minn. Sheet-registering device for platen printing-presses. No. 1,147,506; July 20; Gaz. vol. 216; p. 926.
- Honiss, William H., *et al.* (See Lorenz, William A., assignor.)
- Honiss, William H., *et al.* (See Lorenz and Merritt, assignors.)
- Honiss, William H., Hartford, Conn. Hermetic closure for receptacles. No. 1,150,766; Aug. 17; Gaz. vol. 217; p. 974.
- Honn, Peter, Grand Rapids, Mich. Wheel-remover. No. 1,146,567; July 13; Gaz. vol. 216; p. 579.
- Honold, Frank, assignor of one-third to I. Vermilyea, Climbing Hill, Iowa. Tractor. No. 1,130,285; Mar. 2; Gaz. vol. 212; p. 154.
- Honold, Frank, Luton, Iowa, assignor of one-fourth to L. L. Harris, Hubbard, Nebr. Combined fuel and cooling system for vehicle-engines. No. 1,156,780; Oct. 12; Gaz. vol. 219; p. 531.
- Honold, Gottlob, Stuttgart, Germany. Electrical ignition device. No. 1,165,601; Dec. 28; Gaz. vol. 221; p. 1126.
- Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Ignition for multiple-cylinder combustion-engines having irregular order of ignition. No. 1,124,022; Jan. 5; Gaz. vol. 210; p. 279.
- Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Electric ignition system. No. 1,124,023; Jan. 5; Gaz. vol. 210; p. 280.
- Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Bearing for electromagnetic sparking machines. No. 1,130,904; Mar. 9; Gaz. vol. 212; p. 405.
- Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Electrical ignition system for internal-combustion engines. No. 1,139,121; May 11; Gaz. vol. 214; p. 532.
- Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Mechanical interrupter for electrical ignition systems. No. 1,154,311; Sept. 21; Gaz. vol. 218; p. 757.
- Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Electric-circuit regulator. No. 1,159,674; Nov. 9; Gaz. vol. 220; p. 474.
- Hook, Theodore, Cologne, Bayenthal, Germany, assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated apparatus. No. 1,146,164; July 13; Gaz. vol. 216; p. 437.
- Hook, Theodore, Cologne, Bayenthal, Germany, assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated apparatus. No. 1,146,328; July 13; Gaz. vol. 216; p. 493.
- Hook, Theodore, Cologne, Bayenthal, Germany, assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated apparatus. No. 1,146,329; July 13; Gaz. vol. 216; p. 494.
- Hook, Theodore, Cologne, Bayenthal, Germany, assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated apparatus. No. 1,146,330; July 13; Gaz. vol. 216; p. 494.
- Hook, Theodore, Cologne, Bayenthal, Germany, assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated apparatus. No. 1,146,623; July 13; Gaz. vol. 216; p. 538.
- Hook, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,159,224; Nov. 2; Gaz. vol. 220; p. 283.
- Hood, Arthur N., *et al.* (See Davidson, John E., assignor.)
- Hood, Cyrus S., Corning, N. Y. Combined damper and air-check. No. 1,125,536; Jan. 19; Gaz. vol. 210; p. 902.
- Hood, Cyrus S., Corning, N. Y. Register. No. 1,151,359; Aug. 24; Gaz. vol. 217; p. 1233.
- Hood, John J., and A. G. Salamon, London, England, assignors to The Oil Refining Improvements Company, Limited, Glasgow, Scotland. Treatment of mineral and vegetable oils. No. 1,151,523; Aug. 24; Gaz. vol. 217; p. 1290.
- Hood, Ollie. (See Sanders and Hood.)
- Hood, Oscar C. (See Gaston and Hood.)
- Hood Rubber Co. (See Touseley and Roper, assignors.) (Reissue.)
- Hood Rubber Company. (See Perrault, Joseph E., assignor.)
- Hood Rubber Company. (See Roper, Charles H., assignor.)
- Hood, William, Kaukauna, Wis. Pawl-and-ratchet mechanism. No. 1,125,825; Jan. 19; Gaz. vol. 210; p. 828.
- Hood, William C., Chicago, Ill. Calorific apparatus. No. 1,148,840; Aug. 3; Gaz. vol. 217; p. 128.
- Hoofnagle, William T., Glen Ridge, N. J., assignor to Climax Refuse Container Corporation, New York State. Garbage-receptacle and stand therefor. No. 1,133,438; Mar. 30; Gaz. vol. 212; p. 1429.
- Hoogendorn, Dirk, Deering, Alaska. Gold-separator. No. 1,129,678; Feb. 23; Gaz. vol. 211; p. 1178.
- Hoogewoning, Charles, Ottumwa, Iowa. Gambrel. No. 1,148,681; Aug. 3; Gaz. vol. 217; p. 72.
- Hook, A. S., *et al.* (See Gillespie, Alexander W., assignor.)
- Hook, Charles H. (See Burkart, William J., assignor.)
- Hook, Charles H., Pittsburgh, Pa. Downdraft smoke-consuming boiler-furnace. No. 1,151,592; Aug. 31; Gaz. vol. 217; p. 1360.
- Hook, James, and W. C. Rodney, Manilla, Iowa. Card-door fastener. No. 1,124,901; Jan. 12; Gaz. vol. 210; p. 641.
- Hook, Lela M., Iola, Kans. Picture-hanger. No. 1,149,141; Aug. 3; Gaz. vol. 217; p. 230.
- Hook, Susanna, Battle Creek, Mich. Washboard attachment. No. 1,153,081; Sept. 7; Gaz. vol. 218; p. 254.
- Hooker, Dan, *et al.* (See Minkler, Ray A., assignor.)
- Hooker, Duncan C., Farmington, assignor to The Johns-Mantratt Company, Hartford, Conn. Union for connecting electric cables to subway or junction boxes. No. 1,135,376; Apr. 13; Gaz. vol. 213; p. 500.
- Hooker, Joseph D., Carson, Iowa, assignor of one-fourth to T. G. Northwall and one-fourth to F. Reed, Omaha, Nebr. Demountable rim for vehicle-tires. No. 1,142,962; June 15; Gaz. vol. 215; p. 733.
- Hookey, Thomas A., McDonald, Pa. Rail-joint. No. 1,162,609; Nov. 30; Gaz. vol. 220; p. 1649.
- Hooks, Jesse J., Donna, Tex. Thermostatic fire-extinguishing device. No. 1,143,762; June 22; Gaz. vol. 215; p. 1035.
- Hooley, Thomas, Stockport, England. Press for blocking in gold and other metallic leaf. No. 1,155,573; Oct. 5; Gaz. vol. 219; p. 86.
- Hooley, Thomas, Stockport, England. Blocking in gold and other metallic leaf. No. 1,155,574; Oct. 5; Gaz. vol. 219; p. 87.
- Hoope, John ten, Waupun, Wis. Automatic trip beam plow. No. 1,127,441; Feb. 9; Gaz. vol. 211; p. 312.
- Hooper, Charles S., and R. C. Stevens, Erie, Pa. Steam-superheater. No. 1,125,099; Jan. 19; Gaz. vol. 210; p. 746.
- Hooper, Louis M., Rutherford, N. J. Closet-seat. No. 1,163,149; Dec. 7; Gaz. vol. 221; p. 144.
- Hooper, William H., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for treating boots and shoes. No. 1,161,936; Nov. 30; Gaz. vol. 220; p. 1419.
- Hooper, William H., Lynn, and T. H. Seely, Boston, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Work-support for soles of boots and shoes. No. 1,141,462; June 1; Gaz. vol. 215; p. 135.
- Hoopes, William, and T. Varney, Pittsburgh, Pa. Trolley-conductor. No. 1,157,392; Oct. 19; Gaz. vol. 219; p. 779.
- Hoopes, William, and T. Varney, Pittsburgh, Pa. Trolley-conductor. No. 1,157,393; Oct. 19; Gaz. vol. 219; p. 780.
- Hoopes, William, and T. Varney, Pittsburgh, Pa. Trolley-conductor. No. 1,157,394; Oct. 19; Gaz. vol. 219; p. 780.
- Hoops, Charles E., Kansas City, Mo. Resilient vehicle-tire. No. 1,124,439; Jan. 12; Gaz. vol. 210; p. 475.
- Hoops, Herman W. (See Smith, Samuel N., assignor.)
- Hoos, George F., Falls City, Nebr. Clothes-line support. No. 1,166,212; Dec. 28; Gaz. vol. 221; p. 1344.
- Hootman, Orra O., Orogrande, N. Mex. Universal drive for vehicles. No. 1,144,845; June 29; Gaz. vol. 215; p. 1441.
- Hootman, Seth, Kingston, Mo. Buggy-whip. No. 1,161,129; Nov. 23; Gaz. vol. 220; p. 1089.
- Hooton, Henry W., and S. A. Duggins, Salt Lake City, Utah. Spring-tire. No. 1,146,708; July 13; Gaz. vol. 216; p. 626.
- Hoover, Benjamin, Meridian, Miss. Safety appliance for railway-cars. No. 1,134,335; Apr. 6; Gaz. vol. 213; p. 92.
- Hoover, Benjamin F., Seattle, Wash. Liquid-dispensing apparatus. No. 1,137,403; Apr. 27; Gaz. vol. 213; p. 1301.
- Hoover, Clyde M., Columbiana, Ohio. Milling-machine blade. No. 1,125,537; Jan. 19; Gaz. vol. 210; p. 902.
- Hoover, Frank G., New Berlin, Ohio. Harness-saddle. No. 1,133,560; Mar. 30; Gaz. vol. 212; p. 1473.
- Hoover, Frank K., and A. J. Mason, Chicago, Ill. Triturating device. No. 1,124,442; Jan. 12; Gaz. vol. 210; p. 476.
- Hoover, Frank K., and A. J. Mason, Chicago, Ill. Treating natural phosphate-rock. No. 1,128,874; Feb. 16; Gaz. vol. 211; p. 861.
- Hoover, Frank K., and A. J. Mason, Chicago, Ill. Hydraulic separator. No. 1,128,875; Feb. 16; Gaz. vol. 211; p. 861.
- Hoover, Frederick A., Rockton, Pa. Horseshoe. No. 1,129,679; Feb. 23; Gaz. vol. 211; p. 1178.

- Hoover, George S., assignor of one-fourth to H. G. Bonnell and one-fourth to J. B. Gallaher, Tippecanoe, Ohio. Feed-regulator for lubricators. No. 1,128,449; Feb. 16; Gaz. vol. 211; p. 713.
- Hoover, George S., assignor of one-sixth to F. M. Hogue, one-sixth to H. G. Bonnell, and one-sixth to J. B. Gallaher, Tippecanoe, Ohio. Automatic replacing device for circuit-breakers. No. 1,165,602; Dec. 28; Gaz. vol. 221; p. 1126.
- Hoover, Isaac W., Avery, Ohio. Combined potato-digger and vine-separator. No. 1,130,403; Mar. 2; Gaz. vol. 212; p. 195.
- Hoover, Jacob, Greeley, Colo. Folding basket or shipping-crate. No. 1,125,100; Jan. 19; Gaz. vol. 210; p. 747.
- Hoover, John M., Sedalia, Mo. Acetylene-gas generator. No. 1,161,675; Nov. 23; Gaz. vol. 220; p. 1281.
- Hoover, Joseph W., Winfield, Kans. Kafir-corn header. No. 1,138,953; May 11; Gaz. vol. 214; p. 470.
- Hoover, Kieffer G., Decopolis, Ala. Time-controlled mechanism. No. 1,135,963; Mar. 30; Gaz. vol. 212; p. 1613.
- Hoover, Marion C., Blairtown, Iowa. Calf-weaner. No. 1,125,538; Jan. 19; Gaz. vol. 210; p. 902.
- Hoover Suction Sweeper Company, The. (See Spangler, James M., assignor.)
- Hope Engineering and Supply Company. (See Hildebrand, Harry D., assignor.)
- Hope, Ira M., Chicago, Ill. Boiler-casing. No. 1,139,527; May 18; Gaz. vol. 214; p. 708.
- Hope, William. (See Wobbe and Yost, assignors.)
- Hope, William H., Paris, Tex. Oil-burner. No. 1,128,311; Feb. 16; Gaz. vol. 211; p. 668.
- Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
- Hopes, Charles W., Glens Falls, N. Y. Grate-bar. No. 1,140,158; May 18; Gaz. vol. 214; p. 932.
- Hopes, Charles W., Glens Falls, N. Y. Grate. No. 1,166,213; Dec. 28; Gaz. vol. 221; p. 1344.
- Hopewell, Alfred. (See Stevens, Frank W., assignor.)
- Hopf, Wilhelm, assignor to Fried. Krupp Aktiengesellschaft Germaniaewerft, Kiel-Gaarden, Germany. Water-tube boiler. No. 1,129,803; Feb. 23; Gaz. vol. 211; p. 1219.
- Hopf, Wilhelm, assignor to Fried. Krupp Aktiengesellschaft Germaniaewerft, Kiel-Gaarden, Germany. Water-tube boiler. No. 1,162,063; Nov. 30; Gaz. vol. 220; p. 1463.
- Hopkins, Alfred, New York, N. Y. Drinking-trough, &c. No. 1,144,129; June 22; Gaz. vol. 215; p. 1165.
- Hopkins, Alfred R. (See Day, Abraham, assignor.)
- Hopkins, Archibald E., and O. S. Fellows, assignors to Ideal Wrapping Machine Company, Middletown, N. Y. Knife for cutting-machines. No. 1,131,838; Mar. 16; Gaz. vol. 212; p. 765.
- Hopkins, Arthur C., assignor of one-half to W. J. Butt-schau, Sioux Falls, S. D. Vehicle-wheel. No. 1,153,919; Sept. 21; Gaz. vol. 218; p. 622.
- Hopkins, Charles E., Philadelphia, Pa. Stereotype apparatus. No. 1,160,985; Nov. 16; Gaz. vol. 220; p. 993.
- Hopkins, Clara, administratrix. (See Hopkins, Hiram F.)
- Hopkins, Daniel, Cascade, N. H. Train-stop. No. 1,144,902; June 29; Gaz. vol. 215; p. 1460.
- Hopkins, David L., Bryson, N. C. Train-control system. No. 1,132,582; Mar. 23; Gaz. vol. 212; p. 1082.
- Hopkins, Edward B., Savannah, Ga. Motor-vehicle signal. No. 1,144,903; June 29; Gaz. vol. 215; p. 1460.
- Hopkins, Frank H., Somerville, assignor to American Steam Gauge and Valve Manufacturing Company, Boston, Mass. Dead-weight gate-tester. No. 1,154,018; Sept. 21; Gaz. vol. 218; p. 656.
- Hopkins, Frank T., St. Louis, Mo., assignor to Thos. Cusack Company, Chicago, Ill. Advertising and apparatus therefor. No. 1,152,092; Aug. 31; Gaz. vol. 217; p. 1533.
- Hopkins, George C., Winnsboro, Tex. Smoker's pipe. No. 1,136,422; Apr. 20; Gaz. vol. 213; p. 912.
- Hopkins, George W., Cleveland, Ohio. Burner. No. 1,142,098; June 8; Gaz. vol. 215; p. 393.
- Hopkins, Harvey L., assignor of one-half to J. H. McElroy and one-half to said McElroy, as trustee, Chicago, Ill. Cutting apparatus for mowing and reaping machines and grain-harvesters. No. 1,158,500; Nov. 2; Gaz. vol. 220; p. 31.
- Hopkins, Harvey L., assignor of one-half to J. H. McElroy and one-half to J. H. McElroy, trustee, Chicago, Ill. Cutting apparatus for mowing and reaping machines and grain-harvesters. No. 1,158,501; Nov. 2; Gaz. vol. 220; p. 32.
- Hopkins, Hiram F., deceased; C. Hopkins, administratrix, North Girard, Pa. Universal joint. No. 1,153,789; Sept. 14; Gaz. vol. 218; p. 542.
- Hopkins, Hubert J., San Francisco, Cal. Fire-stream distributor. No. 1,132,935; Mar. 23; Gaz. vol. 212; p. 1213.
- Hopkins, James B. (See Reams and Hopkins.)
- Hopkins, James M., Chicago, Ill., assignor to Camel Company. Bottom door-guide for freight-cars. No. 1,146,073; July 13; Gaz. vol. 216; p. 404.
- Hopkins, Leslie, Kansas City, Mo. Apparatus for producing and controlling the vacuum in steam-heating systems. No. 1,152,634; Sept. 7; Gaz. vol. 218; p. 93.
- Hopkins, Merritt J., Seymour, Conn. Faucet for liquid-dispensing fountains. No. 1,135,377; Apr. 13; Gaz. vol. 213; p. 501.
- Hopkins, Nevil M., Washington, D. C., assignor to The Electric Tachometer Company, Philadelphia, Pa. Magneto-electric generator. No. 1,150,520; Aug. 17; Gaz. vol. 217; p. 889.
- Hopkins, Robert T., Winston-Salem, N. C. Wheel-holder for use in journal-box repairs. No. 1,158,688; Nov. 2; Gaz. vol. 220; p. 98.
- Hopkins, Samuel G., Havre de Grace, Md. Wagon-tongue support. No. 1,148,682; Aug. 3; Gaz. vol. 217; p. 72.
- Hopkins, William W., assignor, by mesne assignments, to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Computing and writing machine. No. 1,133,029; Mar. 23; Gaz. vol. 212; p. 1249.
- Hopkins, William W., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,153,386; Sept. 14; Gaz. vol. 218; p. 400.
- Hopkinson, Ernest, East Orange, N. J. Wrapper for articles of merchandise. No. 1,156,080; Oct. 12; Gaz. vol. 219; p. 289.
- Hopkinson, Ernest, East Orange, N. J. Floor-covering. No. 1,158,051; Oct. 26; Gaz. vol. 219; p. 1071.
- Hopkinson, Joseph, Dayton, Ohio. Knife-edge bearing. No. 1,146,794; July 20; Gaz. vol. 216; p. 676.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,125,846; Jan. 19; Gaz. vol. 210; p. 1012.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,140,824; May 25; Gaz. vol. 214; p. 1197.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,140,825; May 25; Gaz. vol. 214; p. 1198.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,146,795; July 20; Gaz. vol. 216; p. 677.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,151,593; Aug. 31; Gaz. vol. 217; p. 1261.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,158,219; Oct. 26; Gaz. vol. 219; p. 1129.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,159,385; Nov. 9; Gaz. vol. 220; p. 371.
- Hopp, George, New York, N. Y. Safety-tread and producing the same. No. 1,156,081; Oct. 12; Gaz. vol. 219; p. 290.
- Hoppe, Gerhard. (See Herzberg and Hoppe.)
- Hoppe, Robert A., and T. L. Lee, assignors to North East Electric Company, Rochester, N. Y. Controller for electric generators. No. 1,149,054; Aug. 3; Gaz. vol. 217; p. 201.
- Hopper, Bert A., Big Rapids, Mich. Envelop. No. 1,124,440; Jan. 12; Gaz. vol. 210; p. 476.
- Hopper, Bert A., assignor of one-half to R. M. Frantz, Big Rapids, Mich. Headlight for vehicles. No. 1,142,963; June 15; Gaz. vol. 215; p. 734.
- Hopper, Calvin M. (See Wright, Smart, and Hopper.)
- Hopper, Calvin M. (See Wright, Smart, Hopper, and Thompson.)
- Hopper, James F., assignor of one-half to D. K. Penn, Sherman, Tex. Gas generator and burner. No. 1,132,583; Mar. 23; Gaz. vol. 212; p. 1082.
- Hopper, Reginald F., St. Albans, England. Hypodermic-needle mount. No. 1,139,975; May 18; Gaz. vol. 214; p. 867.
- Hopper, Samuel J., and H. Soley, Woodstock, Oreg. Door-support. No. 1,130,975; Mar. 9; Gaz. vol. 212; p. 428.
- Hoppes, George D., Springfield, Ohio. Trolley-replacer. No. 1,136,803; Apr. 20; Gaz. vol. 213; p. 1046.
- Hopple Electrical Appliance Company. (See Hopple, William, assignor.)
- Hopple, William, assignor to Hopple Electrical Appliance Company, Salt Lake City, Utah. Electrical battery. No. 1,140,826; May 25; Gaz. vol. 214; p. 1199.
- Hopple, William, Salt Lake City, Utah, assignor to Hopple Electrical Appliance Company. Sound-detector. No. 1,140,827; May 25; Gaz. vol. 214; p. 1199.
- Hopson, William R., Bridgeport, Conn. Vehicle-wheel. No. 1,146,796; July 20; Gaz. vol. 216; p. 677.
- Hopwood, Josephine L. R., Primos, Pa. Nursing-bottle holder. No. 1,136,529; Apr. 20; Gaz. vol. 213; p. 949.
- Hopwood, Walter P., and P. H. Kroh, Baltimore, Md. Wheel-hub. No. 1,139,867; May 18; Gaz. vol. 214; p. 829.
- Horace M. McCord & Co. (See McCord, Horace M., assignor.)
- Horacek, Vaclav M., Tabor, S. D. Traction-engine attachment. No. 1,129,291; Feb. 23; Gaz. vol. 211; p. 1044.
- Horan, Laurance J., Detroit, Mich. Indicator for vehicles. No. 1,161,130; Nov. 23; Gaz. vol. 220; p. 1089.
- Horan, Timothy F., Cooperstown, N. Y. Cornice-mold. No. 1,149,367; Aug. 10; Gaz. vol. 217; p. 418.
- Horchler, William, assignor of one-half to G. E. Rodman, New York, N. Y. Automatic stop for railway-trains. No. 1,127,248; Feb. 2; Gaz. vol. 211; p. 206.
- Hordubay, John, Scalp Level, Pa. Combined cigar-cutter and match-deliverer. No. 1,136,130; Apr. 20; Gaz. vol. 213; p. 806.
- Horiuchi, George S., Seattle, Wash. Sanitary harness attachment. No. 1,162,359; Nov. 30; Gaz. vol. 220; p. 1566.

Alphabetical list of patentees—Continued.

- Horkman, Henry, Neenah, Wis. Blow-off valve. No. 1,130,286; Mar. 2; Gaz. vol. 212; p. 155.
- Hormel, August. (See Wagner and Hormel.)
- Hormes, William T., Govanstown, assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,133,861; Mar. 30; Gaz. vol. 212; p. 1582.
- Hornes, William T., Govanstown, assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,145,864; July 6; Gaz. vol. 216; p. 311.
- Horn, Aaron C., New York, N. Y. Plastic waterproofing composition. No. 1,149,519; Aug. 10; Gaz. vol. 217; p. 470.
- Horn, Bert H., assignor of one-half to G. R. Mitchell, Richmond, Ind. Free-end-paper-roll holder and cutter. No. 1,161,862; Nov. 30; Gaz. vol. 220; p. 1393.
- Horn, Charles, Millbourne, Pa. Snap-switch. No. 1,133,285; Mar. 30; Gaz. vol. 212; p. 1374.
- Horn, Charles, Millbourne, Pa., assignor, by mesne assignments, to Harvey Hubbell, Inc., Bridgeport, Conn. Combined cable clamp and bushing. No. 1,142,709; June 8; Gaz. vol. 215; p. 605.
- Horn, Charles W., Chicago, Ill. Rotary hydrocarbon explosive-engine. No. 1,138,566; May 4; Gaz. vol. 214; p. 294.
- Horn, Eli, and E. Sherman, Louisville, Ky. Machine for inserting shell corks in bottles. No. 1,125,326; Jan. 19; Gaz. vol. 210; p. 828.
- Horn, Floyd E., Phillipsburg, N. J. Fishing-reel. No. 1,159,931; Nov. 2; Gaz. vol. 220; p. 214.
- Horn, Frank, Columbus, Ohio. Brake mechanism. No. 1,147,507; July 20; Gaz. vol. 216; p. 926.
- Horn, John H., Paterson, assignor to The National Lock Washer Company, Newark, N. J. Nut-lock. No. 1,135,284; Apr. 13; Gaz. vol. 213; p. 469.
- Horn, Josef, Kötzschenbroda, near Dresden, assignor to Maschinenfabrik, Rockstroh & Schneidernachf., Aktien-gesellschaft, Heidenau, near Dresden, Saxony, Germany. Automatic sheet feeding and delivery mechanism for platen-presses. No. 1,154,312; Sept. 21; Gaz. vol. 218; p. 757.
- Horn, Robert W. P., Allentown, J. H. Nissley, Mannheim, and D. B. Lätimer, Philadelphia, Pa. Removing or breaking the shells of coconuts. No. 1,161,811; Nov. 23; Gaz. vol. 220; p. 1328.
- Horn, William H., Jr., assignor to Wm. H. Horn & Brother, Philadelphia, Pa. Instep-support. No. 1,140,159; May 18; Gaz. vol. 214; p. 932.
- Horn, William H., Jr., assignor to Wm. H. Horn & Brother, Philadelphia, Pa. Truss. No. 1,141,799; June 1; Gaz. vol. 215; p. 250.
- Horn, William W., Chicago Ill. Folding trestle. No. 1,143,397; June 15; Gaz. vol. 215; p. 889.
- Hornaday, James M., Durham, N. C., assignor to Liggett & Myers Tobacco Company, St. Louis, Mo. Cutting mechanism for cigarette-machines. No. 1,143,628; June 22; Gaz. vol. 215; p. 991.
- Hornbeck, Henry S., assignor to Volotone Company, Elizabeth, N. J. Musical instrument. No. 1,142,255; June 8; Gaz. vol. 215; p. 448.
- Hornbostel, Edward A., and J. Carey, Des Moines, Iowa. Oil and water burner. No. 1,154,019; Sept. 21; Gaz. vol. 218; p. 657.
- Hornbrook-Price Co., The. (See Ellers, Henry A., assignor.)
- Hornby, Frank, assignor to Meccano Limited, Liverpool, England. Toy or working model. No. 1,161,131; Nov. 23; Gaz. vol. 220; p. 1089.
- Hornby, Oscar, assignor of one-half to T. Hutchinson, Hoquiam, Wash. Shingle-press. No. 1,135,800; Apr. 13; Gaz. vol. 213; p. 650.
- Horne, Alvalder D., Haverhill, Mass. Adjustable double-burner tool-heater. No. 1,148,089; July 27; Gaz. vol. 216; p. 1159.
- Horne, George A., assignor to Meriden Fire Arms Co., Meriden, Conn. Magazine-rifle. No. 1,146,568; July 13; Gaz. vol. 216; p. 580.
- Horne, George A., assignor to Meriden Fire Arms Co., Meriden, Conn. Magazine-gun. No. 1,146,569; July 13; Gaz. vol. 216; p. 580.
- Horne, James. (See Dawson and Horne.)
- Horne, James B., St. Charles, Ill. Shock-absorber. No. 1,123,878; Jan. 5; Gaz. vol. 210; p. 232.
- Horne, James H., assignor to The Barney and Smith Car Company, Dayton, Ohio. Sheet-fastening device. No. 1,161,132; Nov. 23; Gaz. vol. 220; p. 1090.
- Horne, John F., Portland, Me. Support for milking-pails. No. 1,124,441; Jan. 12; Gaz. vol. 210; p. 476.
- Horne, Lawrence W., and W. N. Crane, New York, N. Y. Automatic device for controlling the speed of trains. No. 1,138,109; May 4; Gaz. vol. 214; p. 137.
- Horne, Lawrence W., and W. N. Crane, New York, N. Y. Automatic device for controlling the speed of trains. No. 1,164,284; Dec. 14; Gaz. vol. 221; p. 586.
- Horne, Lawrence W., and W. N. Crane, New York, N. Y., assignors of one-third to A. C. Henry. Automatic train-stopping device. No. 1,142,256; June 8; Gaz. vol. 215; p. 448.
- Horne, Lawrence W., and W. N. Crane, New York, assignors to Lord Manufacturing Co., Brooklyn, N. Y. Hand-operated car-brake. No. 1,166,214; Dec. 28; Gaz. vol. 221; p. 1346.
- Horne, William D., Yonkers, N. Y. Purifying solutions. No. 1,150,194; Aug. 17; Gaz. vol. 217; p. 776.
- Horner, Joseph A. (See Johnson, Reno D. O., assignor.)
- Horner, Joseph W. (See Hamelback, Jacob A., assignor.)
- Horner, Walter S., assignor to Nashua Card Gummed & Coated Paper Company, Nashua, N. H. Protector for calendar-rolls. No. 1,161,676; Nov. 23; Gaz. vol. 220; p. 1282.
- Hornlache, George, Rouleau, Canada. Wind-shield-clearing device. No. 1,163,011; Dec. 7; Gaz. vol. 221; p. 97.
- Horning, Harry E., and J. L. Subik, Johnstown, N. Y. Signal-lamp. No. 1,136,804; Apr. 20; Gaz. vol. 213; p. 1047.
- Horning, Walter D., Milwaukee, Wis. Concrete-mold. No. 1,162,924; Dec. 7; Gaz. vol. 221; p. 66.
- Hornor, Dayton H., Alpaugh, Cal. Internal-combustion engine. No. 1,149,142; Aug. 3; Gaz. vol. 217; p. 230.
- Hornor, Florence A., Chesterfield, N. J. Box. No. 1,131,520; Mar. 9; Gaz. vol. 212; p. 616.
- Hornor, Harry A., Philadelphia, Pa. Wire-stripping tool. No. 1,165,176; Dec. 21; Gaz. vol. 221; p. 940.
- Hornquist, Frank, Mount Jewett, Pa. Muffler. No. 1,127,892; Feb. 9; Gaz. vol. 211; p. 473.
- Hornquist, Frank, Mount Jewett, Pa. Sled-runner. No. 1,134,612; Apr. 6; Gaz. vol. 213; p. 193.
- Hornsbly, Adlie H., Omaha, Nebr. Washing-machine. No. 1,134,613; Apr. 6; Gaz. vol. 213; p. 193.
- Hornsbly, William H., Branch, La. Attachment for harvesters. No. 1,163,237; Dec. 7; Gaz. vol. 221; p. 176.
- Hornschuch, Otto F., Seattle, Wash. Ironing-board. No. 1,136,878; Apr. 20; Gaz. vol. 213; p. 1072.
- Hornsey, John W., Summit, N. J., assignor to General Reduction Gas and By-Products Company. Rotary apparatus for treating materials. No. 1,142,521; June 8; Gaz. vol. 215; p. 542.
- Hornsey, John W., Summit, N. J., assignor to General Reduction Gas and By-Products Company. Manufacturing gas. No. 1,159,675; Nov. 9; Gaz. vol. 220; p. 474.
- Hornstein, Emil. (See Metz and Hornstein.)
- Horovitz, Alexander S., Passaic, N. J. Disinfecting composition. No. 1,154,925; Sept. 28; Gaz. vol. 218; p. 995.
- Horowitz, Morris M., Utica, N. Y. Steering-wheel. No. 1,125,539; Jan. 19; Gaz. vol. 210; p. 903.
- Horr, Frank, Bieber, Cal. Resilient tire. No. 1,147,094; July 20; Gaz. vol. 216; p. 781.
- Horriggan, Thomas F., Brighton, Mass. Fastening device for shoes. No. 1,142,812; June 15; Gaz. vol. 215; p. 681.
- Horry, William S., Niagara Falls, assignor to Union Carbide Company, New York, N. Y. Electric furnace. No. 1,130,734; Mar. 9; Gaz. vol. 212; p. 346.
- Horsford, Samuel, Dorchester, Mass. Sash-lock. No. 1,166,215; Dec. 28; Gaz. vol. 221; p. 1345.
- Horsley, Robert L., Fort Worth, Tex. Bale-tie buckle. No. 1,124,227; Jan. 5; Gaz. vol. 210; p. 352.
- Horspool, Francis L., Salt Lake City, Utah. Emergency locking-bolt for safe or vault doors and the like. No. 1,138,218; May 4; Gaz. vol. 214; p. 173.
- Horst, Elam, Calverton, Va. Spring-wheel. No. 1,125,688; Jan. 19; Gaz. vol. 210; p. 958.
- Horst, Emil C., assignor to E. Clemens Horst Co., San Francisco, Cal. Hop-separator. No. 1,132,011; Mar. 16; Gaz. vol. 212; p. 826.
- Horst, Emil C., assignor to E. Clemens Horst Co., San Francisco, Cal. Hop-separator. No. 1,136,423; Apr. 20; Gaz. vol. 213; p. 912.
- Horst, Heinrich. (See Brune and Horst.)
- Horst, Ludwig, Hamburg, Germany. Refrigerating apparatus. No. 1,161,937; Nov. 30; Gaz. vol. 220; p. 1420.
- Horting, Frank O., et al. (See Kempff and Smith, assignors.)
- Horting, Levi W., et al. (See Banzhof, Charles P., assignor.)
- Horting, Levi W., et al. (See Stauffer, Banzhof, and Stauffer, assignors.)
- Horting, Levi W., assignor of one-third to C. F. Stauffer and one-third to B. G. Stauffer, Lancaster, Pa. Centrifugal cut-out. No. 1,135,801; Apr. 13; Gaz. vol. 213; p. 651.
- Horton, Albert F., assignor to Heywood Brothers & Wakefield Company, Wakefield, Mass. Car-seat and securing means therefor. No. 1,165,880; Dec. 28; Gaz. vol. 221; p. 1224.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Rheostat. No. 1,130,976; Mar. 9; Gaz. vol. 212; p. 428.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Rheostat. No. 1,158,052; Oct. 26; Gaz. vol. 219; p. 1071.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,161,477; Nov. 23; Gaz. vol. 220; p. 1214.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,163,150; Dec. 7; Gaz. vol. 221; p. 145.
- Horton, Allen A., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and calculating machine. No. 1,156,600; Oct. 12; Gaz. vol. 219; p. 468.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,127,442; Feb. 9; Gaz. vol. 211; p. 313.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,129,569; Feb. 23; Gaz. vol. 211; p. 1142.

Alphabetical list of patentees—Continued.

- Horton, Bryson D., Detroit, Mich. Locking device for switches. No. 1,129,570; Feb. 23; Gaz. vol. 211; p. 1142.
- Horton, Bryson D., assignor to Detroit Fuse & Manufacturing Company, Detroit, Mich. Electrical switch. No. 1,129,568; Feb. 23; Gaz. vol. 211; p. 1142.
- Horton, Charles M., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Multiple-tucking guide for sewing-machines. No. 1,152,635; Sept. 7; Gaz. vol. 218; p. 94.
- Horton, Guy E., and C. S. Wagner, Akron, Ohio. Collapsible core. No. 1,136,805; Apr. 20; Gaz. vol. 213; p. 1047.
- Horton, Harry M., New York, N. Y. System of aeroplane-signaling. No. 1,165,412; Dec. 28; Gaz. vol. 221; p. 1001.
- Horton Manufacturing Company. (See Strite, Charles P. and A. J., assignors.)
- Horvat, Josef, Superior, Wis. Railway-rail joint. No. 1,145,992; July 13; Gaz. vol. 216; p. 376.
- Horváth, Jim. (See Juhász and Horváth.)
- Horváth, John, Youngstown, Ohio. Portable fence. No. 1,130,287; Mar. 2; Gaz. vol. 212; p. 155.
- Horvath, Joseph, Cherry Valley, Pa. Life-saving suit. No. 1,141,116; June 1; Gaz. vol. 215; p. 9.
- Horváth, Sándor, assignor of one-half to S. Zsembery, New York, N. Y. Attachment for vehicle-wheels. No. 1,150,597; Aug. 17; Gaz. vol. 217; p. 916.
- Hoschek, John, New York, N. Y. Permutation-lock. No. 1,143,398; June 15; Gaz. vol. 215; p. 889.
- Hoschke, William E., New York, assignor, by mesne assignments, to Sonora Phonograph Corporation. Automatic brake for phonographs. No. 1,148,477; July 27; Gaz. vol. 216; p. 1294.
- Hoschke, William H., New York, N. Y., assignor to Crescent Talking Machine Company, Inc. Tone-arm connection for talking-machines. No. 1,155,064; Sept. 28; Gaz. vol. 218; p. 1043.
- Hosey, William, Success, Ark. Attachment for ironing-tables. No. 1,147,726; July 27; Gaz. vol. 216; p. 1030.
- Hosford, William F., West Chicago, Ill., assignor to Western Electric Company, New York, N. Y. Contact member. No. 1,132,094; Mar. 16; Gaz. vol. 212; p. 856.
- Hosier, Ernest H., White Haven, Pa. Manually-removable bottle-cap. No. 1,130,905; Mar. 9; Gaz. vol. 212; p. 405.
- Hosking, Richard T., Saginaw, Mich. Storing and removing silage. No. 1,150,119; Aug. 17; Gaz. vol. 217; p. 748.
- Hosking, Richard T., assignor to American Banking Machine Corporation, Saginaw, Mich. Locking device for coin-actuated vending-machines. No. 1,163,012; Dec. 7; Gaz. vol. 221; p. 97.
- Hoskins, Ernest J., assignor to Art Photo Company, Springfield, Mass. Combined order-book and checking and containing device. No. 1,164,612; Dec. 14; Gaz. vol. 221; p. 700.
- Hoskins, William, La Grange, Ill. Resilient body. No. 1,155,575; Oct. 5; Gaz. vol. 219; p. 87.
- Hosmer, Arthur, Chicago, Ill. Combination tie-plate and rail-fastener. No. 1,134,455; Apr. 6; Gaz. vol. 213; p. 136.
- Hospital Appliance Company, The. (See Sleicher, Ralph H., assignor.)
- Hossfeld, Albert, Lewiston, Minn. Drilling-machine. No. 1,127,003; Feb. 2; Gaz. vol. 211; p. 119.
- Hosterman, Harry L., Parkersburg, W. Va. Tire-holding rim for wheels. No. 1,163,151; Dec. 7; Gaz. vol. 221; p. 145.
- Hostetler, John J., and W. O. Rice, Clarkton, Mo.; said Hostetler assignor to said Rice. Mold for tongue-and-groove concrete blocks. No. 1,153,846; Sept. 14; Gaz. vol. 218; p. 563.
- Hotaling, Omar J., Rutherford, N. J. Vending-machine. No. 1,135,802; Apr. 13; Gaz. vol. 213; p. 651.
- Hotchkin, Paul M., Chicago, Ill. Electric-light fitting. No. 1,129,982; Mar. 2; Gaz. vol. 212; p. 50.
- Hotchkin, Paul M., Chicago, Ill. Pull-switch lighting-fixture. No. 1,164,348; Dec. 14; Gaz. vol. 221; p. 610.
- Hotchkin, Paul M., Chicago, Ill. Switch-box. No. 1,164,349; Dec. 14; Gaz. vol. 221; p. 610.
- Hotchkin, Paul M., Chicago, Ill. Stand-lamp reflector. No. 1,164,720; Dec. 21; Gaz. vol. 221; p. 780.
- Hotchkin, Paul M., assignor to National X-Ray Reflector Company, Chicago, Ill. Bracket for show-case-lighting reflectors. No. 1,134,132; Apr. 6; Gaz. vol. 213; p. 17.
- Hotchkin, Paul M., assignor to National X-Ray Reflector Company, Chicago, Ill. Combined junction-box and reflector-casing. No. 1,134,133; Apr. 6; Gaz. vol. 213; p. 18.
- Hotchkiss, Clarence F., assignor to Stow Manufacturing Company, Binghamton, N. Y. Belt-gearing. No. 1,143,583; June 15; Gaz. vol. 215; p. 951.
- Hotchkiss, Harry B., Corning, Cal. Bag-holder. No. 1,149,446; Aug. 10; Gaz. vol. 217; p. 445.
- Hotchkiss, John, Sebring, Ohio. Filter. No. 1,153,920; Sept. 21; Gaz. vol. 218; p. 623.
- Hotchkiss, Wallace J., Alpena, S. D. Thill-coupling. No. 1,126,472; Jan. 26; Gaz. vol. 210; p. 1270.
- Hothersall, John M., assignor to American Can Company, New York, N. Y. Sealed-nozzle pouring-spout for cans. No. 1,145,896; July 13; Gaz. vol. 216; p. 341.
- Hothersall, John M., assignor to American Can Company, New York, N. Y. Seal for sheet-metal containing vessels. No. 1,148,683; Aug. 3; Gaz. vol. 217; p. 72.
- Hothersall, John M., New York, N. Y., assignor to J. Q. A. and C. Whittemore, Boston, Mass. Box. No. 1,154,020; Sept. 21; Gaz. vol. 218; p. 657.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Friction-closure. No. 1,162,694; Nov. 30; Gaz. vol. 220; p. 1676.
- Hotson, John H., Brooklyn, N. Y., assignor to Typewriter Speed Key Company. Keyboard of type-writing machines and the like. No. 1,146,331; July 13; Gaz. vol. 216; p. 494.
- Hotson, John H., Brooklyn, N. Y., assignor to Typewriter Speed Key Company. Keyboard. No. 1,146,570; July 13; Gaz. vol. 216; p. 580.
- Hottenroth, Adolph C., Freeport, N. Y. Expandable screw, bolt, or nail. No. 1,138,219; May 4; Gaz. vol. 214; p. 174.
- Hotter, Ferdinand. (See Walter, John, assignor.)
- Hottmann, Charles W., assignor of one-half to A. H. E. Juergens, Philadelphia, Pa. Sausage-stuffer. No. 1,133,030; Mar. 23; Gaz. vol. 212; p. 1249.
- Hotz, Henry P., et al. (See Good, Thomas L., assignor.)
- Hotzel, Francis G., and J. B. Allen, Pueblo, Colo. Washing-machine. No. 1,136,231; Apr. 20; Gaz. vol. 213; p. 842.
- Houben, Otto P., Akron, Ohio. Protective covering or armor. No. 1,164,521; Dec. 14; Gaz. vol. 221; p. 671.
- Houchin, Lowell L., Woodcliff-on-Hudson, N. J. Eye-glass-mounting. No. 1,125,022; Jan. 12; Gaz. vol. 210; p. 684.
- Houck, Asa F., Easton, Pa. Stovepipe-anchor. No. 1,132,347; Mar. 16; Gaz. vol. 212; p. 949.
- Houdaille, Maurice, Levallois-Perret, France. Wiping device for screens and the like. No. 1,146,497; July 13; Gaz. vol. 216; p. 555.
- Houdaille, Maurice, assignor to Societe Houdaille & Sabot, Paris, France. Hydraulic brake device. No. 1,141,246; June 1; Gaz. vol. 215; p. 55.
- Hough, Edward B., assignor to Wightman & Hough Co., Providence, R. I. Locket. No. 1,126,217; Jan. 26; Gaz. vol. 210; p. 1181.
- Hough, Oscar, Camrose, Alberta, Canada. Colter for plows. No. 1,123,535; Jan. 5; Gaz. vol. 210; p. 116.
- Hough, Oscar, Camrose, Alberta, Canada. Plow. No. 1,132,847; Mar. 23; Gaz. vol. 212; p. 1182.
- Hough, Robert H., and L. J. Stern, Philadelphia, Pa. Lens. No. 1,125,327; Jan. 19; Gaz. vol. 210; p. 829.
- Hough, Robert H., and L. J. Stern, Philadelphia, Pa. Projecting images on screens. No. 1,132,269; Mar. 16; Gaz. vol. 212; p. 921.
- Hough, Wallace J., Pittsburgh, Pa. Curtain-stretching frame. No. 1,151,594; Aug. 31; Gaz. vol. 217; p. 1362.
- Hough, William B., Chicago, Ill., assignor, by mesne assignments, to Patented Devices Company, Portland, Me. Reinforced concrete construction. No. 1,127,995; Feb. 9; Gaz. vol. 211; p. 507.
- Hough, William B., Chicago, Ill., assignor, by mesne assignments, to Patented Devices Company, Portland, Me. Reinforced concrete construction. No. 1,133,801; Mar. 30; Gaz. vol. 212; p. 1560.
- Hough, William S., Jr. (See Wiley and Hough.)
- Hough, Willis L., Laconia, N. H. Partial denture and removable bridge. No. 1,128,876; Feb. 16; Gaz. vol. 211; p. 861.
- Hough, Willis L., Laconia, N. H. Dental polishing device. No. 1,138,479; May 4; Gaz. vol. 214; p. 267.
- Houghland, Frank H., Houston, Tex., assignor of one-half to L. M. Woolwine, Memphis, Tenn. Collapsible box. No. 1,166,048; Dec. 28; Gaz. vol. 221; p. 1281.
- Houghton, Horatio G., Green Bay, Wis. Railway-tie. No. 1,153,387; Sept. 14; Gaz. vol. 218; p. 401.
- Houghton, Horatio G., Green Bay, Wis. Railway-tie. No. 1,160,174; Nov. 16; Gaz. vol. 220; p. 707.
- Houghton, James C., and L. A. Hill, Washington, D. C. Carbureter. No. 1,164,093; Dec. 14; Gaz. vol. 221; p. 521.
- Houghton, Lewis T., Worcester, Mass. Thread-guide-support for spinning or twisting machines. No. 1,134,336; Apr. 6; Gaz. vol. 213; p. 93.
- Houghton, Lewis T., Worcester, Mass. Top-roll saddle mechanism. No. 1,158,220; Oct. 26; Gaz. vol. 219; p. 1130.
- Houghton, Orley C., assignor to Bullock Tractor Company, Chicago, Ill. Bearing-wheel for traction-engines. No. 1,137,974; May 4; Gaz. vol. 214; p. 88.
- Houghton, Orley C., Davenport, Iowa, assignor to Bullock Tractor Company, Chicago, Ill. Traction-truck. No. 1,142,169; June 8; Gaz. vol. 215; p. 417.
- Hourigan, John J., deceased; A. G. Watt, administrator, Randwick, near Sydney, New South Wales, Australia. Cutter-lid closure for circular cans having hermetically-sealed tagger-tin tops. No. 1,149,055; Aug. 3; Gaz. vol. 217; p. 202.
- Hourienne, Benjamin H. (See Spranger and Hourienne.)
- House, Henry A., Bridgeport, Conn. Paper-plaiting device. No. 1,124,618; Jan. 12; Gaz. vol. 210; p. 541.
- House, Henry A., Bridgeport, Conn. Paper receptacle. No. 1,128,785; Feb. 16; Gaz. vol. 211; p. 829.

Alphabetical list of patentees—Continued.

- House, Henry A., Jr., Long Hill, Conn. Locking device for hubs. No. 1,166,130; Dec. 28; Gaz. vol. 221; p. 1312.
- House, Herman, Melbourne, Victoria, Australia. Means for absorbing road-shocks on vehicle-wheels. No. 1,128,140; Feb. 9; Gaz. vol. 211; p. 558.
- House, Herman, Melbourne, Victoria, Australia. Spring suspension in vehicles for absorbing road-shocks. No. 1,129,680; Feb. 23; Gaz. vol. 211; p. 1178.
- House, Leo J., La Fargeville, N. Y. Latch. No. 1,166,216; Dec. 28; Gaz. vol. 221; p. 1345.
- House, Milus M. (See Le May and House.)
- House, Samuel N., St. Louis, Mo. Tenon-cutter. No. 1,149,581; Aug. 10; Gaz. vol. 217; p. 492.
- House, Zachariah E., Cass Lake, Minn. Toy cannon. No. 1,141,710; June 1; Gaz. vol. 215; p. 221.
- House, Wyatt A. (See Graham, Lee, assignor.)
- Houseknecht, Lloyd M., Picayune, Miss. Astronomical educational apparatus. No. 1,140,160; May 18; Gaz. vol. 214; p. 932.
- Houseknecht, Lloyd M., Picayune, Miss. Educational apparatus. No. 1,141,340; June 1; Gaz. vol. 215; p. 90.
- Housel, Joseph M., assignor of one-half to E. R. Caldwell, Bradford, Pa. Chuck. No. 1,129,491; Feb. 23; Gaz. vol. 211; p. 1115.
- Housel, Joseph M., assignor of one-half to E. R. Caldwell, Bradford, Pa. Driving mechanism for machines for drilling, tapping, &c. No. 1,160,607; Nov. 16; Gaz. vol. 220; p. 858.
- Houseman, Harold E. (See Houseman, Harry A. and H. E.)
- Houseman, Harold E., assignor to Standard Machine Company, Philadelphia, Pa. Stop-motion for circular-knitting machines. No. 1,151,182; Aug. 24; Gaz. vol. 217; p. 1174.
- Houseman, Harold E., assignor to Standard Machine Company, Philadelphia, Pa. Thread-carrier-operating mechanism for circular-knitting machines. No. 1,161,677; Nov. 23; Gaz. vol. 220; p. 1282.
- Houseman, Harry A., assignor to Standard Machine Company, Philadelphia, Pa. Circular-knitting machine. No. 1,127,766; Feb. 9; Gaz. vol. 211; p. 426.
- Houseman, Harry A., assignor to Standard Machine Company, Philadelphia, Pa. Circular-knitting machine. No. 1,127,767; Feb. 9; Gaz. vol. 211; p. 426.
- Houseman, Harry A., assignor to Standard Machine Company, Philadelphia, Pa. Take-up for circular-knitting machines. No. 1,149,262; Aug. 10; Gaz. vol. 217; p. 379.
- Houseman, Harry A., assignor to Standard Machine Company, Philadelphia, Pa. Thread-carrier-operating mechanism for circular-knitting machines. No. 1,152,951; Sept. 7; Gaz. vol. 218; p. 210.
- Houseman, Harry A. and H. E., assignors to Standard Machine Company, Philadelphia, Pa. Circular-knitting machine. No. 1,127,768; Feb. 9; Gaz. vol. 211; p. 427.
- Houseman, Harry A. and H. E., assignors to Standard Machine Company, Philadelphia, Pa. Circular-knitting machine. No. 1,127,769; Feb. 9; Gaz. vol. 211; p. 428.
- Houser, Arthur M., assignor to Crane Company, Chicago, Ill. Safety-valve. No. 1,152,733; Sept. 7; Gaz. vol. 218; p. 130.
- Houser, Arthur M., assignor to Crane Company, Chicago, Ill. Pressure-controlled valve. No. 1,157,870; Oct. 26; Gaz. vol. 219; p. 1007.
- Houser, James A., Marion, Ind. Brush. No. 1,165,259; Dec. 21; Gaz. vol. 221; p. 969.
- Houser, John O. (See Yelin and Houser.)
- Housh, Frank E., Winthrop, Mass. Locking-binder for books. No. 1,127,004; Feb. 2; Gaz. vol. 211; p. 120.
- Housh, Frank E., Winthrop, Mass. Book-cover. No. 1,162,484; Nov. 30; Gaz. vol. 220; p. 1609.
- Housh, Frank E., Winthrop, Mass. Loose-leaf book. No. 1,162,485; Nov. 30; Gaz. vol. 220; p. 1609.
- Housman, Peter V. (See Thomas and Housman.)
- Houston, Alexander. (See Train and Houston.)
- Houston, Arthur R., Ensley, Ala. Screening-conveyer. No. 1,136,674; Apr. 20; Gaz. vol. 213; p. 1000.
- Houston, Charles E., London, England. Polishing device. No. 1,140,593; May 25; Gaz. vol. 214; p. 1119.
- Houston, Hugh E., Wichita Falls, Tex. Sprinkler. No. 1,152,636; Sept. 7; Gaz. vol. 218; p. 94.
- Houston, John L., Poughkeepsie, N. Y. Siphon-blower. No. 1,151,464; Aug. 24; Gaz. vol. 217; p. 1268.
- Houston Manufacturing Company. (See Sutton, William S., assignor.)
- Houston, Robert A., Fort Dodge, Kans. Broom. No. 1,157,108; Oct. 19; Gaz. vol. 219; p. 677.
- Houston, Ross, Portland, Ore. Matched flooring or board. No. 1,124,228; Jan. 5; Gaz. vol. 210; p. 353.
- Houston, William O., Bellaire, Ohio. Recuperative furnace. No. 1,126,473; Jan. 26; Gaz. vol. 210; p. 1270.
- Houston, William O., Bellaire, Ohio. Gas-producer for furnaces. No. 1,149,056; Aug. 3; Gaz. vol. 217; p. 202.
- Hout, J. S. (See Shive, Calvin A., assignor.)
- Hout, Katherine C., Albany, N. Y. Umbrella. No. 1,136,806; Apr. 20; Gaz. vol. 213; p. 1047.
- Hout, Katherine C., Albany, and C. T. Hentschel, Schenectady, N. Y. Umbrella-covering machine. No. 1,135,803; Apr. 13; Gaz. vol. 213; p. 632.
- Hout, Walter H. (See Sam and Hout.)
- Hout, William W., Cortland, N. Y. Welding-flux. No. 1,131,521; Mar. 9; Gaz. vol. 212; p. 617.
- Houtz, John J., and W. L. Harris, Merwin, Mo. Silo-roof. No. 1,153,082; Sept. 7; Gaz. vol. 218; p. 254.
- Houze, Ferdinand T., et al. (See Houze, Ulgisse, assignor.)
- Houze, John H., et al. (See Houze, Ulgisse, assignor.)
- Houze, Noel J., et al. (See Houze, Ulgisse, assignor.)
- Houze, Ulgisse, Pomona, Cal. Device for forming glass cylinders for window-glass. No. 1,128,269; Feb. 9; Gaz. vol. 211; p. 602.
- Houze, Ulgisse, assignor of four-fifths to F. T. and J. H. Houze, Pomona, Cal., N. J. Houze, Oshkosh, Wis., and A. McFadden, Grand Rapids, Mich. Device for forming glass cylinders. No. 1,132,270; Mar. 16; Gaz. vol. 212; p. 922.
- Hoyle, Oscar, Helena, Mont. Hand-truck. No. 1,165,507; Dec. 28; Gaz. vol. 221; p. 1093.
- Hovenden, Hiram A., assignor of one-half to A. Enos, Sandpoint, Idaho. Lawn-rake. No. 1,133,964; Mar. 30; Gaz. vol. 212; p. 1613.
- Hover, Clyde E. (See Voris and Hover.)
- Hover-Incubator Manufacturing Company. (See Rappleye, Frank A., assignor.)
- Hoover, John C., Bellefontaine, Ohio. Crutch. No. 1,127,893; Feb. 9; Gaz. vol. 211; p. 473.
- Hovgaard, William, Brookline, Mass. Elastic bulkhead. No. 1,164,814; Dec. 21; Gaz. vol. 221; p. 813.
- Hovland, Abraham N., Christiania, Norway. Method of and apparatus for sending signal-impulses. No. 1,133,726; Mar. 30; Gaz. vol. 212; p. 1533.
- Hovland, Abraham N., Christiania, Norway. Electric condenser or Leyden jar. No. 1,139,976; May 18; Gaz. vol. 214; p. 867.
- Hovland, Anton I., St. Paul, Minn. Traction-engine. No. 1,151,360; Aug. 24; Gaz. vol. 217; p. 1233.
- Hovland, Henry, Lincoln, Nebr., assignor to Automatic Electric Company, Chicago, Ill. Party-line telephone system. No. 1,158,221; Oct. 26; Gaz. vol. 219; p. 1130.
- Hovland, Henry B., Duluth, Minn. Sulfidizing metals. No. 1,159,942; Nov. 9; Gaz. vol. 220; p. 573.
- Hovland, Henry B., Duluth, Minn. Apparatus for treating ores and other materials under pressure. No. 1,164,187; Dec. 14; Gaz. vol. 221; p. 552.
- Hovland, Henry B., Duluth, Minn. Apparatus for treating ores and other materials. No. 1,164,188; Dec. 14; Gaz. vol. 221; p. 553.
- Hovland, Henry B., Duluth, Minn. Apparatus for treating ores and other materials. No. 1,164,189; Dec. 14; Gaz. vol. 221; p. 553.
- Hovland, Henry B., Duluth, and G. B. Frankforter, Minneapolis, Minn., said Frankforter assignor to said Hovland. Sulfating materials. No. 1,159,032; Nov. 2; Gaz. vol. 220; p. 214.
- Hovland, Henry B., Duluth, and G. B. Frankforter, Minneapolis, Minn., said Frankforter assignor to said Hovland. Sulfating materials. No. 1,159,033; Nov. 2; Gaz. vol. 220; p. 215.
- How, Elisha L., St. Paul, Minn. Insert for holding car-rails. No. 1,155,658; Oct. 5; Gaz. vol. 219; p. 116.
- Howard, Andrew A., Santa Maria, Cal., and J. M. Burger, Ardmore, Okla. Ratchet-swivel for drilling-cables. No. 1,150,196; Aug. 17; Gaz. vol. 217; p. 777.
- Howard, Loomfield H. (See Turner and Howard.)
- Howard, Charles B., Brockton, Mass. Steam-trap. No. 1,132,184; Mar. 16; Gaz. vol. 212; p. 839.
- Howard, Charles L., Capay, Cal. Automatic pin-coupling. No. 1,127,894; Feb. 9; Gaz. vol. 211; p. 473.
- Howard, Charles L., Capay, Cal. Speed-changing transmission-gearing. No. 1,157,001; Oct. 19; Gaz. vol. 219; p. 639.
- Howard, Charles O. (See Frayer and Howard.)
- Howard, Charles R., Newark, N. Y. Combination lens-hood and vignetter. No. 1,137,975; May 4; Gaz. vol. 214; p. 88.
- Howard, Clarence H., and H. M. Pfleger, St. Louis, Mo., assignors, by mesne assignments, to Commonwealth Steel Company. Articulated car-truck. No. 1,144,328; June 22; Gaz. vol. 215; p. 1235.
- Howard, Clarence H., and H. M. Pfleger, St. Louis, Mo., assignors, by mesne assignments, to Commonwealth Steel Company. Articulated car-truck. No. 1,144,329; June 22; Gaz. vol. 215; p. 1235.
- Howard, Clarence H., and H. M. Pfleger, assignors to Commonwealth Steel Company, St. Louis, Mo. Car-truck. No. 1,146,257; July 13; Gaz. vol. 216; p. 469.
- Howard, Clarence W., Fort Madison, Iowa. Centrifugal drying apparatus. No. 1,123,536; Jan. 5; Gaz. vol. 210; p. 116.
- Howard, Claude G., and E. G. Kinney, Rice Lake, Wis. Tire-reliner. No. 1,127,626; Feb. 9; Gaz. vol. 211; p. 375.
- Howard, Cornelius. (See Deffebach and Howard.)
- Howard, Elmer G., Springfield, Nebr. Automatic dirigible lamp mechanism for automobiles. No. 1,151,880; Aug. 31; Gaz. vol. 217; p. 1460.
- Howard, Ernest E., Portland, Ore. Lawn-sprinkler. No. 1,163,152; Dec. 7; Gaz. vol. 221; p. 145.
- Howard, Forest L., Clinton, S. C. Self-locking switch. No. 1,143,763; June 22; Gaz. vol. 215; p. 1036.
- Howard, Frank E., assignor to James L. Howard & Company, Hartford, Conn. Baggage-rack. No. 1,139,868; May 18; Gaz. vol. 214; p. 829.

- Howard, Frank E., assignor to James L. Howard & Company, Hartford, Conn. Door-catch. No. 1,139,869; May 18; Gaz. vol. 214; p. 830.
- Howard, George E., Butler, assignor to The Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-melting tank-furnace. No. 1,138,110; May 4; Gaz. vol. 214; p. 137.
- Howard, George E., Butler, assignor to The Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-melting tank-furnace. No. 1,138,111; May 4; Gaz. vol. 214; p. 138.
- Howard, George M., Philadelphia, Pa. Negative-pole plate for secondary or storage batteries. No. 1,156,686; Oct. 12; Gaz. vol. 219; p. 500.
- Howard, George W. (See Chase, Earl G., assignor.)
- Howard, Guy C., Everett, Wash. Tube-mill. No. 1,146,760; July 13; Gaz. vol. 216; p. 644.
- Howard, H. L. (See Bazemore, Merrill A., assignor.)
- Howard, Hal, *et al.* (See Hayes, Thomas F., assignor.)
- Howard, Harold M., Providence, R. I. Top. No. 1,144,938; June 29; Gaz. vol. 215; p. 1471.
- Howard, Harold M., and J. A. Mellardy, Providence, R. I. Spark-plug. No. 1,158,222; Oct. 26; Gaz. vol. 219; p. 1130.
- Howard, Henry, Brookline, Mass. Treating aluminate solutions. No. 1,137,860; May 4; Gaz. vol. 214; p. 48.
- Howard, Henry, Brookline, Mass. Drying sodium-bisulfite crystals. No. 1,138,658; May 11; Gaz. vol. 214; p. 365.
- Howard, Henry, Brookline, Mass. Apparatus for making hydrochloric acid. No. 1,145,897; July 13; Gaz. vol. 216; p. 341.
- Howard, Henry, Brookline, Mass. Making hydrochloric acid. No. 1,145,898; July 13; Gaz. vol. 216; p. 342.
- Howard, Henry, Brookline, Mass. Making sulfuric acid. No. 1,151,103; Aug. 24; Gaz. vol. 217; p. 1147.
- Howard, Henry, Boston, Mass. Making carbon dioxide and solid sodium sulfate. No. 1,161,649; Dec. 21; Gaz. vol. 221; p. 755.
- Howard, Henry W., Shenandoah, Iowa. Animal-oller. No. 1,156,403; Oct. 12; Gaz. vol. 219; p. 400.
- Howard, Hermon W., Washington, D. C. Strip-moltening machine. No. 1,156,687; Oct. 12; Gaz. vol. 219; p. 500.
- Howard, Jewell, assignor of one-fourth to J. J. Crume and one-fourth to R. S. Killough, Amarillo, Tex. Street-sprinkling device. No. 1,123,746; Jan. 5; Gaz. vol. 210; p. 187.
- Howard, Joe E., and E. M. Knothe, Seattle, Wash. Automatic air and steam coupling. No. 1,130,601; Mar. 2; Gaz. vol. 212; p. 266.
- Howard, John E., Erin, N. Y. Platform-bridge. No. 1,131,783; Mar. 16; Gaz. vol. 212; p. 744.
- Howard, John M., *et al.* (See Clark, Arthur I., assignor.)
- Howard, Leslie E., Lockport, N. Y., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Fluid-pressure distribution and control system. No. 1,124,443; Jan. 12; Gaz. vol. 210; p. 477.
- Howard, Lester C., *et al.* (See Freeman, Malon E., assignor.)
- Howard, Lysander, Louisville, Ky. Coffee-pot. No. 1,139,288; May 11; Gaz. vol. 214; p. 588.
- Howard, Michael E., Indianapolis, Ind. Excavating-machine. No. 1,161,938; Nov. 30; Gaz. vol. 220; p. 1420.
- Howard, Monroe S., Waukon, Iowa. Automatic expression control for mechanically-operated pianos. No. 1,132,584; Mar. 23; Gaz. vol. 212; p. 1083.
- Howard, Perez B., Newtonville, Mass. Arch-support. No. 1,133,965; Mar. 30; Gaz. vol. 212; p. 1614.
- Howard, Pliny J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Journal-box-securing mechanism. No. 1,125,540; Jan. 19; Gaz. vol. 210; p. 903.
- Howard, Rowland G., Jackson, Tenn. Anchoring device. No. 1,157,781; Oct. 26; Gaz. vol. 219; p. 975.
- Howard, Samuel L., Chicago, Ill. Printing-press-tyrpan ball. No. 1,150,767; Aug. 17; Gaz. vol. 217; p. 974.
- Howard, Sidney C., assignor to C. E. Brown, Columbus, Ohio. Safety-razor. No. 1,125,328; Jan. 19; Gaz. vol. 210; p. 829.
- Howard, Thomas, Jasonville, Ind. Railway-spike. No. 1,165,778; Dec. 28; Gaz. vol. 221; p. 1189.
- Howard, W. M., *et al.* (See Lamar, Leonard A., assignor.)
- Howard, William H., Cotopaxi, Colo. Incubator and heating means therefor. No. 1,149,916; Aug. 10; Gaz. vol. 217; p. 615.
- Howard, William H., Garfield, Utah. Converter for treating matte. No. 1,153,921; Sept. 21; Gaz. vol. 218; p. 623.
- Howard, William L., Trenton, N. J. Vehicle-wheel. No. 1,135,804; Apr. 13; Gaz. vol. 213; p. 652.
- Howard, William R., *et al.* (See Nicolaus, George W., assignor.)
- Howard, William W. (See Dooley and Howard.)
- Howarth, John M., assignor of one-fourth to F. C. Daniels, Wausau, Wis. Landing-chair for elevators. No. 1,152,318; Aug. 31; Gaz. vol. 217; p. 1610.
- Howarth, Mark. (See Field, Howarth, and Atkins.)
- Howe, Andrew F., Granite City, Ill. Saw-guard. No. 1,148,169; July 27; Gaz. vol. 216; p. 1188.
- Howe, Andrew F., Granite City, Ill. Jointer-guard. No. 1,157,109; Oct. 19; Gaz. vol. 219; p. 678.
- Howe and Davidson Company. (See Brown, Howard J., assignor.)
- Howe and Davidson Company. (See Davidson, Frank B., assignor.)
- Howe, Edgar F., El Centro, Cal. Engine. No. 1,150,768; Aug. 17; Gaz. vol. 217; p. 974.
- Howe, Frank D., Akron, Ohio, assignor, by mesne assignments, to International Harvester Corporation. End-gate. No. 1,150,195; Aug. 17; Gaz. vol. 217; p. 776.
- Howe, Fred C., New Haven, Conn. Adjustable lamp. No. 1,124,902; Jan. 12; Gaz. vol. 210; p. 641.
- Howe, Fred C., New Haven, Conn. Adjustable lamp. No. 1,124,903; Jan. 12; Gaz. vol. 210; p. 642.
- Howe, Fred C., New Haven, Conn. Adjustable lamp. No. 1,142,964; June 15; Gaz. vol. 215; p. 734.
- Howe, Fred C., New Haven, Conn. Lamp. No. 1,147,727; July 27; Gaz. vol. 216; p. 1030.
- Howe, Frederick S., Marshalltown, Iowa. Carburetor. No. 1,126,218; Jan. 26; Gaz. vol. 210; p. 1181.
- Howe, George E., East Smethport, Pa. Nut-lock. No. 1,140,594; May 25; Gaz. vol. 214; p. 1119.
- Howe, George E., East Smethport, Pa., assignor of one-half to E. J. Janowitz, Buffalo, N. Y. Horseshoe. No. 1,130,514; Mar. 2; Gaz. vol. 212; p. 236.
- Howe, Henry P., Holyoke, Mass. Paper machinery. No. 1,162,486; Nov. 30; Gaz. vol. 220; p. 1609.
- Howe, Henry P., assignor to American Writing Paper Company, Holyoke, Mass. Surface-finishing machine for paper. No. 1,130,515; Mar. 2; Gaz. vol. 212; p. 237.
- Howe, James A., assignor to Taylor Instrument Companies, Rochester, N. Y. Compass. No. 1,136,232; Apr. 20; Gaz. vol. 213; p. 843.
- Howe, James A., assignor to Taylor Instrument Companies, Rochester, N. Y. Pressure-indicator. No. 1,165,006; Dec. 21; Gaz. vol. 221; p. 880.
- Howe, James A., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer-holder. No. 1,165,973; Dec. 28; Gaz. vol. 221; p. 1256.
- Howe, John B. (See McBurney, Barksdale, and Howe.)
- Howe, John B., Atlanta, Ga. Absorption refrigeration system. No. 1,161,678; Nov. 23; Gaz. vol. 220; p. 1283.
- Howe, Joseph B., Worcester, assignor to G. S. Harwood & Son, Boston, Mass. Feeding mechanism for carding-machines. No. 1,138,567; May 4; Gaz. vol. 214; p. 294.
- Howe, Louis C., Indianapolis, Ind., assignor to Link-Bolt Company, Chicago, Ill. Core for molding. No. 1,143,399; June 15; Gaz. vol. 215; p. 889.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Inherent-power return signaling device. No. 1,125,541; Jan. 19; Gaz. vol. 210; p. 903.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Semaphore-stop. No. 1,137,323; Apr. 27; Gaz. vol. 213; p. 1271.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electromagnetic controlling device. No. 1,146,165; July 13; Gaz. vol. 216; p. 437.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signal. No. 1,150,005; Aug. 10; Gaz. vol. 217; p. 647.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Gasket. No. 1,153,162; Sept. 7; Gaz. vol. 218; p. 280.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Motor for operating railway-signals. No. 1,162,695; Nov. 30; Gaz. vol. 220; p. 1676.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric interlocking protective device. No. 1,163,153; Dec. 7; Gaz. vol. 221; p. 146.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric controlling device. No. 1,163,154; Dec. 7; Gaz. vol. 221; p. 146.
- Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Photographic-printing apparatus. (Re-issue.) No. 14,023; Nov. 30; Gaz. vol. 220; p. 1694.
- Howell, Benjamin M., Falls City, Oreg. Tie plate and brace. No. 1,124,741; Jan. 12; Gaz. vol. 210; p. 584.
- Howell, Charles W., Jr., Newark, N. J., assignor to The Sun Typewriter Company, New York, N. Y. Printing. No. 1,130,404; Mar. 2; Gaz. vol. 212; p. 196.
- Howell, David J., Waukesha, Wis. Attachment for stall-partitions. No. 1,141,341; June 1; Gaz. vol. 215; p. 90.
- Howell, David S., Oconto, Wis. Hay-rack lock. No. 1,132,848; Mar. 23; Gaz. vol. 212; p. 1182.
- Howell, Edward F., Fort Smith, Ark. Fruit-picker. No. 1,153,083; Sept. 7; Gaz. vol. 218; p. 254.
- Howell, Fred B., Schenectady, N. Y., assignor to General Electric Company. Equalizing means for a three-truck locomotive. No. 1,160,715; Nov. 16; Gaz. vol. 220; p. 899.
- Howell, Frederick M., Sterling, Kans. Ensilage-packer. No. 1,123,879; Jan. 5; Gaz. vol. 210; p. 232.
- Howell, Harry H., Hope, Ark. Meter-box. No. 1,156,530; Oct. 12; Gaz. vol. 219; p. 445.
- Howell, John B., Leavenworth, Kans. Electric railway-signal. No. 1,156,688; Oct. 12; Gaz. vol. 219; p. 500.

Alphabetical list of patentees—Continued.

- Howell, John W., San Angelo, Tex. Freezing-plug. No. 1,159,225; Nov. 2; Gaz. vol. 220; p. 284.
- Howell, Robert W., Kirkwood, Mo. Stove. No. 1,128,605; Feb. 16; Gaz. vol. 211; p. 767.
- Howell, Wesley, *et al.* (See Bailey, John G., assignor.)
- Howells, William E., Peckville, Pa. Electric fire-alarm. No. 1,128,141; Feb. 9; Gaz. vol. 211; p. 558.
- Howes, Claude L., Boston, Mass. Street fire-hydrant. No. 1,145,838; July 6; Gaz. vol. 216; p. 302.
- Howes, Sam P., San Jose, Cal. Adjustable hose-nozzle holder. No. 1,129,197; Feb. 23; Gaz. vol. 211; p. 1011.
- Howes, Wright E., assignor, by mesne assignments, to Anglo-American Aerator Co., San Francisco, Cal. Auxiliary air-supply for internal-combustion engines. No. 1,146,258; July 13; Gaz. vol. 216; p. 469.
- Howg, Carl M., Sisseton, S. D. Lever mechanism for belt-shifters. No. 1,146,166; July 13; Gaz. vol. 216; p. 437.
- Howie, Kenneth. (See Mauck and Howie.)
- Howk, Clarence L., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,127,005; Feb. 2; Gaz. vol. 211; p. 120.
- Howkins, John S., Fulham, London, England. Grooving-plane and analogous woodworking-tool for grooving, rabbeting, bending, and the like. No. 1,153,790; Sept. 14; Gaz. vol. 218; p. 543.
- Howland, Chauncey W. (See Bader and Howland.)
- Howland, Chauncey W., assignor to The Standard Optical Company, Geneva, N. Y. Machine for cutting lenses. No. 1,141,896; June 1; Gaz. vol. 215; p. 284.
- Howland, Edwin A., Cincinnati, Ohio. Photographic appliance. No. 1,127,763; Feb. 9; Gaz. vol. 211; p. 425.
- Howland, Henry S., *et al.* (See Van Vleet, Charles W., assignor.)
- Howland, John, San Antonio, Tex. Tell-tale-switch. No. 1,132,849; Mar. 23; Gaz. vol. 212; p. 1182.
- Howland, Lucien B. (See McGill and Howland.)
- Hoy, Adea A., St. Louis, Mo. Meat product and producing the same. No. 1,129,868; Mar. 2; Gaz. vol. 212; p. 12.
- Hoy, Sidney D., Sioux City, Iowa. Mold for cement fence-posts. No. 1,134,854; Apr. 6; Gaz. vol. 213; p. 277.
- Hoye, James, Rochester, N. Y. Portière. No. 1,133,966; Mar. 30; Gaz. vol. 212; p. 1614.
- Hoyer, Anton, Neukölln-Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,153,493; Sept. 14; Gaz. vol. 218; p. 438.
- Hoyer, Anton, Neukölln-Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,153,494; Sept. 14; Gaz. vol. 218; p. 439.
- Hoyer, Franklin G. (See Barr and Hoyer.)
- Hoyland, Frederick. (See Fisher and Hoyland.)
- Hoyt, Albert M. (See Matson, Carl A., assignor.)
- Hoyt, Arthur S., assignor to The Arthur S. Hoyt Company, New York, N. Y. Making a novel starch product. No. 1,148,453; July 27; Gaz. vol. 216; p. 1286.
- Hoyt, Arthur S., assignor to The Arthur S. Hoyt Company, New York, N. Y. Article of manufacture. No. 1,148,454; July 27; Gaz. vol. 216; p. 1286.
- Hoyt, Asa A., Watsonville, Cal. Adjustable window-screen. No. 1,148,513; Aug. 3; Gaz. vol. 217; p. 10.
- Hoyt, Daniel, East Orange, assignor of one-half to The National Lock Washer Company, Newark, N. J. Weather-stripping. No. 1,157,871; Oct. 26; Gaz. vol. 219; p. 1007.
- Hoyt, Daniel, East Orange, assignor of one-half to The National Lock Washer Company, Newark, N. J. Weather-stripping. No. 1,157,872; Oct. 26; Gaz. vol. 219; p. 1007.
- Hoyt, Elmore S., Red Wing, Minn. Jar. No. 1,165,260; Dec. 21; Gaz. vol. 221; p. 969.
- Hoyt, Francis R., assignor, by mesne assignments, to A. F. Eickhoff, Indianapolis, Ind. Circuit-controller. No. 1,135,285; Apr. 13; Gaz. vol. 213; p. 469.
- Hoyt, George E., New Orleans, La. Journal-box brass. No. 1,130,602; Mar. 2; Gaz. vol. 212; p. 267.
- Hoyt, Homer J., Detroit, Mich., assignor to Morgan & Wright. Apparatus for centralizing the tread upon the carcass of a tire. No. 1,162,360; Nov. 30; Gaz. vol. 220; p. 1567.
- Hoyt, Homer J., Detroit, Mich., assignor to Morgan & Wright. Machine for treating plastic materials. No. 1,163,089; Dec. 7; Gaz. vol. 221; p. 123.
- Hoyt, John S., *et al.* (See Matthews, Edwin S., assignor.)
- Hoyt, John S., Darien, Conn. Hydraulic elevator. No. 1,136,131; Apr. 20; Gaz. vol. 213; p. 806.
- Hoyt, Leslie B., Athens, Me., and E. E. Currier, Whitefield, N. H. Harness-terret. No. 1,129,804; Feb. 23; Gaz. vol. 211; p. 1220.
- Hoyt, Oris T., Good Hope, Ill. Draft-equalizer. No. 1,153,388; Sept. 14; Gaz. vol. 218; p. 401.
- Hoyt, Ray S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Artificial line. No. 1,124,904; Jan. 12; Gaz. vol. 210; p. 642.
- Bradecky, Charles F., Fleming, Colo. Spool-holder. No. 1,149,263; Aug. 10; Gaz. vol. 217; p. 379.
- Bradecky, Charles F., Fleming, Colo. Freight-car seal. No. 1,151,183; Aug. 24; Gaz. vol. 217; p. 1175.
- Bréhocsik, Joseph. (See Luha, Joseph, assignor.)
- Hribar, Joe, Waukegan, Ill. Clutch. No. 1,139,977; May 18; Gaz. vol. 214; p. 867.
- Hub, John C., Lakewood, Ohio. Fastener for papers. No. 1,131,700; Mar. 16; Gaz. vol. 212; p. 713.
- Hub, John C., Cleveland, Ohio. Index-card. No. 1,150,034; Aug. 17; Gaz. vol. 217; p. 718.
- Hub, John C., and F. M. Case, Cleveland, Ohio; said Case assignor to said Hub. Tab-stock. No. 1,164,721; Dec. 21; Gaz. vol. 221; p. 780.
- Hub, John C., Jr., Cleveland, Ohio. Fastener for letter-files. No. 1,138,872; May 11; Gaz. vol. 214; p. 443.
- Hub Shock Absorber Wheel Company. (See Chew and Sergeant, assignors.)
- Hubback, Edward, Seattle, Wash. Hoisting mechanism. No. 1,138,873; May 11; Gaz. vol. 214; p. 443.
- Hubbard, Albert B. (See Bens and Hubbard.)
- Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,134,337; Apr. 6; Gaz. vol. 213; p. 93.
- Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,160,608; Nov. 16; Gaz. vol. 220; p. 859.
- Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,160,609; Nov. 16; Gaz. vol. 220; p. 859.
- Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Alternating-current apparatus. No. 1,160,610; Nov. 16; Gaz. vol. 220; p. 859.
- Hubbard, Charles W., Jr., New York, N. Y. Box. No. 1,128,312; Feb. 16; Gaz. vol. 211; p. 669.
- Hubbard, Charles W., Jr., New York, N. Y. Cigarette-box. No. 1,152,815; Sept. 7; Gaz. vol. 218; p. 160.
- Hubbard & Co. (See Peirce, Charles L., Jr., assignor.)
- Hubbard, Eber J., Berwyn, Ill. Sheet-metal spool. No. 1,143,541; June 15; Gaz. vol. 215; p. 936.
- Hubbard, Eber J., Berwyn, Ill. Forming sheet-metal spools. No. 1,155,357; Oct. 5; Gaz. vol. 219; p. 11.
- Hubbard, Elias E., assignor, by mesne assignments, of one-half to H. E. Mott, Harrisburg, Ill. Excavating-machine. No. 1,132,720; Mar. 23; Gaz. vol. 212; p. 1134.
- Hubbard, Elmer S., Higganum, Conn. Harrow. No. 1,138,112; May 4; Gaz. vol. 214; p. 138.
- Hubbard, Fred, Pittsburgh, Pa. Collapsible egg-crate. No. 1,143,197; June 15; Gaz. vol. 215; p. 817.
- Hubbard, Frederick J., Syracuse, N. Y. Capsule-holder. No. 1,148,776; Aug. 3; Gaz. vol. 217; p. 106.
- Hubbard, Henry F., assignor to Star Pin Company, Shelton, Conn. Rotary wire-straightener. No. 1,123,297; Jan. 5; Gaz. vol. 210; p. 33.
- Hubbard, Henry L., Cleveland, Ohio. Headlight attachment for automobiles. No. 1,124,024; Jan. 5; Gaz. vol. 210; p. 280.
- Hubbard, Ira B., and C. E. Williams, Worcester, Mass. Comb-head. No. 1,165,177; Dec. 21; Gaz. vol. 221; p. 941.
- Hubbard, John W. (See Youngs, Fred E., assignor.)
- Hubbard, Joseph G., and W. R. Wilson, Youngstown, Ohio. Machine for making expanded sheet metal. No. 1,163,924; Dec. 14; Gaz. vol. 221; p. 461.
- Hubbard, Mattie B., Earlshoro, Okla. Mail-box. No. 1,130,288; Mar. 2; Gaz. vol. 212; p. 155.
- Hubbard, Norman, Elizabeth, N. J. Automatic stop and check valve. No. 1,153,226; Sept. 14; Gaz. vol. 218; p. 342.
- Hubbard, Richard L., Astoria, N. Y. Air-heater. No. 1,126,011; Jan. 26; Gaz. vol. 210; p. 1104.
- Hubbard, Richard W., Ashtabula, Ohio. Hinge. No. 1,126,764; Feb. 2; Gaz. vol. 211; p. 35.
- Hubbard, William H., Jr., Salida, Colo., assignor to The Ohio & Colorado Smelting & Refining Co., Denver, Colo. Cooling ore. No. 1,149,264; Aug. 10; Gaz. vol. 217; p. 379.
- Hubbel, Edgar G., Winthrop, Mass. Tooth-brush. No. 1,138,568; May 4; Gaz. vol. 214; p. 295.
- Hubbell, Albert, Ravenwood, Mo. Straw-spreader. No. 1,163,013; Dec. 7; Gaz. vol. 221; p. 97.
- Hubbell, Asa A., Alamogorda, N. Mex. Rail-joint. No. 1,148,841; Aug. 3; Gaz. vol. 217; p. 128.
- Hubbell, David E., Elgin, Ill. Milk-skimmer. No. 1,142,041; June 8; Gaz. vol. 215; p. 372.
- Hubbell, Harvey, Bridgeport, Conn. Shade-holder. No. 1,135,019; Apr. 13; Gaz. vol. 213; p. 379.
- Hubbell, Harvey, Bridgeport, Conn. Shade-holder. No. 1,135,020; Apr. 13; Gaz. vol. 213; p. 379.
- Hubbell, Harvey, Bridgeport, Conn. Locking-lamp. No. 1,138,292; May 4; Gaz. vol. 214; p. 199.
- Hubbell, Harvey, Bridgeport, Conn. Locking-lamp. No. 1,138,293; May 4; Gaz. vol. 214; p. 200.
- Hubbell, Harvey, Bridgeport, Conn. Attachment-plug receptacle. No. 1,146,938; July 20; Gaz. vol. 216; p. 727.
- Hubbell, Jacob W. (See Reiser and Hubbell.)
- Hubbell, Russell H., assignor to Hill, Hubbell & Co., San Francisco, Cal. Pipe-painting machine. No. 1,159,676; Nov. 9; Gaz. vol. 220; p. 475.
- Huber, Charles S., assignor to Positive Supply Company, Davenport, Iowa. Water-tank heater. No. 1,143,196; June 15; Gaz. vol. 215; p. 817.
- Huber, Ernst, assignor of one-half to W. Meister, Brooklyn, N. Y. Gas-engine. No. 1,135,021; Apr. 13; Gaz. vol. 213; p. 380.

- Huber, Frederick W., Los Angeles, Cal. Method and apparatus for classifying crushed material. No. 1,146,624; July 13; Gaz. vol. 216; p. 598.
- Huber, Frederick W., and R. W. Poindexter, Jr., Los Angeles, Cal. Utilizing beet-molasses waste water. No. 1,145,484; July 6; Gaz. vol. 216; p. 179.
- Huber, Gustav A., New York, N. Y. Electric alarm-bell. No. 1,141,187; June 1; Gaz. vol. 215; p. 34.
- Huber-Hodgman Printing Press Company, The. (See Hodgman, Willis K., assignor.)
- Huber, Jacob F., Philadelphia, Pa. Liquid-dispensing apparatus. No. 1,124,905; Jan. 12; Gaz. vol. 210; p. 642.
- Huber, Jacob F., Philadelphia, Pa. Dispensing apparatus. No. 1,164,350; Dec. 14; Gaz. vol. 221; p. 610.
- Hubers, Albert W., New York, N. Y. Controlling mechanism for elevator-cars. No. 1,155,065; Sept. 28; Gaz. vol. 218; p. 1043.
- Hubert, Conrad, Chatham borough, N. J. Portable electric light. No. 1,157,395; Oct. 19; Gaz. vol. 219; p. 780.
- Hubert, Lily E. G., Los Angeles, Cal. Furnace. No. 1,133,561; Mar. 30; Gaz. vol. 212; p. 1473.
- Huberty, August, Canton, Ohio. Lawn-trimmer. No. 1,163,238; Dec. 7; Gaz. vol. 221; p. 176.
- Hubertz, William, La Fayette, Ind. Ditching-machine. No. 1,152,893; Sept. 7; Gaz. vol. 218; p. 189.
- Hubinger, Joseph E. (See Hogan, John J., assignor.)
- Hubler, Robert L., et al. (See Inrig, Gavan and L., assignors.)
- Hübner, Robert M., and D. E. Jones, assignors to The Elyria Iron & Steel Company, Elyria, Ohio. Apparatus for making C-bars. No. 1,132,185; Mar. 16; Gaz. vol. 212; p. 889.
- Hubmann, John, St. Louis, Mo. Combination drum and cymbal beater. No. 1,128,142; Feb. 9; Gaz. vol. 211; p. 559.
- Hübner, Gustav, Plauen, Germany. Tambour-frame-moving mechanism for embroidering-machines. No. 1,154,397; Sept. 21; Gaz. vol. 218; p. 787.
- Hübner, Gustav, Plauen, assignor to W. Reents, Bauen, Germany. Embroidering-machine. No. 1,137,623; Apr. 27; Gaz. vol. 213; p. 1374.
- Hübner & Mayer. (See Roschaneck, Otto, assignor.)
- Hübner, Robert, assignor, by mesne assignments, to G. H. Benjamin, New York, N. Y. Coffee tablet and making same. No. 1,137,265; Apr. 27; Gaz. vol. 213; p. 1251.
- Huck, Alfred W. (See Huck, Waldo and A. W.)
- Huck, John T., assignor of one-half to W. J. Filck, San Francisco, Cal. Ratchet mechanism. No. 1,142,574; June 8; Gaz. vol. 215; p. 560.
- Huck, Louis C., Holdrege, Nebr. Lawn-trimmer. No. 1,127,764; Feb. 9; Gaz. vol. 211; p. 425.
- Huck, Waldo and A. W., assignors of two-thirds to said A. W. Huck and one-third to C. McDonald, Kansas City, Mo. Lasting-pincers. No. 1,151,789; Aug. 31; Gaz. vol. 217; p. 1428.
- Hucke, John H., Jr., New York, N. Y. Feed-bag for horses. No. 1,155,238; Sept. 28; Gaz. vol. 218; p. 1102.
- Huckel, John F., Kansas City, Mo. Display-case. No. 1,161,387; Nov. 23; Gaz. vol. 220; p. 1183.
- Huddleston, Pleasant A., Oklahoma, Okla. Electric illuminating alarm-clock. No. 1,133,562; Mar. 30; Gaz. vol. 212; p. 1473.
- Huddleston, Pleasant A., Oklahoma, Okla. Electric switch. No. 1,162,361; Nov. 30; Gaz. vol. 220; p. 1567.
- Hudgel, Jessie E., Sloan, Iowa. Paper-holder. No. 1,153,389; Sept. 14; Gaz. vol. 218; p. 401.
- Hudler, Charles L., St. Louis, Mo. Automatic water-heater. No. 1,141,247; June 1; Gaz. vol. 215; p. 55.
- Hudnall, Ephraim J. (See Nale and Hudnall.)
- Hudson, Albert E., Calgary, Alberta, Canada. Automatic train-stop device. No. 1,136,132; Apr. 20; Gaz. vol. 213; p. 807.
- Hudson, Albert E., Calgary, Alberta, Canada. Throttle or starting valve. No. 1,136,133; Apr. 20; Gaz. vol. 213; p. 807.
- Hudson, Alexander A., Cincinnati, Ohio. Heel-building machine. No. 1,156,842; Oct. 12; Gaz. vol. 219; p. 554.
- Hudson, Bertram P. and E. R., Watertown, Conn. Machine for attaching runners to hosiery. No. 1,139,360; May 11; Gaz. vol. 214; p. 612.
- Hudson, Earl R. (See Hudson, Bertram P. and E. R.)
- Hudson, Edwin V., Wilkensburg, Pa. Envelop. No. 1,131,135; Mar. 9; Gaz. vol. 212; p. 483.
- Hudson, Frank W., assignor to H. W. Davis, Sharon, Pa. Gate-valve. No. 1,149,057; Aug. 3; Gaz. vol. 217; p. 202.
- Hudson, Frank W., assignor to H. W. Davis, Sharon, Pa. Gate-valve. No. 1,159,677; Nov. 9; Gaz. vol. 220; p. 475.
- Hudson, George B., and W. P. Bope, Decatur, Mich. Self-heating sand-iron. No. 1,136,338; Apr. 20; Gaz. vol. 213; p. 880.
- Hudson, Grace. (See Malloy, Mary A., assignor.)
- Hudson, Harrison L., Chicago, Ill. Gear. No. 1,163,925; Dec. 14; Gaz. vol. 221; p. 462.
- Hudson, Harrison L., Chicago, Ill. Gear. No. 1,163,926; Dec. 14; Gaz. vol. 221; p. 463.
- Hudson, Harry L., New York, N. Y. Sheet-metal box. No. 1,160,611; Nov. 16; Gaz. vol. 220; p. 860.
- Hudson, James M., assignor to The Star Hame Manufacturing Company, Blanchester, Ohio. Adjustable draft-hames. No. 1,128,985; Feb. 16; Gaz. vol. 211; p. 902.
- Hudson, Joel E., Batavia, N. Y. Automatic ship's bell. No. 1,143,270; June 15; Gaz. vol. 215; p. 842.
- Hudson, Mahalah T., Kirksville, Mo. Poison-indicator. No. 1,131,839; Mar. 16; Gaz. vol. 212; p. 765.
- Hudson Motor Car Company et al. (See Ball, Albert P., assignor.)
- Hudson Motor Car Company. (See Fekete, Stephen I., assignor.)
- Hudson Motor Car Company. (See Moorhouse, Alfred, assignor.)
- Hudson, Wash E., et al. (See Smith, Frank W., assignor.)
- Huebner, Johan, Chicago, Ill. Washing-machine. No. 1,135,584; Apr. 13; Gaz. vol. 213; p. 575.
- Huebner, William, and O. Kunkel, Garfield, N. J. Auto-mat-stabilizing aeroplane. No. 1,131,380; Mar. 9; Gaz. vol. 212; p. 567.
- Huelsdonk, William A., Le Grand, Cal. Drilling-rig. No. 1,145,418; July 6; Gaz. vol. 216; p. 155.
- Huemphner, Minnie, San Marcial, N. Mex. Hat-fastener. No. 1,136,530; Apr. 20; Gaz. vol. 213; p. 950.
- Huenefeld Company, The. (See Huenefeld, Walter E., assignor.)
- Huenefeld, Walter E., assignor to The Huenefeld Company, Cincinnati, Ohio. Hydrocarbon-burner. No. 1,153,084; Sept. 7; Gaz. vol. 218; p. 254.
- Huenefauth, Samuel E., Chicago, Ill. Resistance device. No. 1,138,659; May 11; Gaz. vol. 214; p. 365.
- Huey, B. S. (See Judia, George H., assignor.)
- Huff, Edmund J., Jr., Philadelphia, Pa., and F. A. Johnston, St. George, N. Y., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Crown-post. No. 1,145,368; July 6; Gaz. vol. 216; p. 136.
- Huff, Hiram C., Vegreville, Alberta, Canada. Draft-appliance. No. 1,130,516; Mar. 2; Gaz. vol. 212; p. 237.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Steering-gear for motor-vehicles. No. 1,124,444; Jan. 12; Gaz. vol. 210; p. 477.
- Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Fuel-tank pressure system. No. 1,126,012; Jan. 26; Gaz. vol. 210; p. 1104.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion motor. No. 1,129,393; Feb. 23; Gaz. vol. 211; p. 1080.
- Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,132,850; Mar. 23; Gaz. vol. 212; p. 1183.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,142,257; June 8; Gaz. vol. 215; p. 449.
- Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Filling-thimble for radiator-tanks. No. 1,146,426; July 13; Gaz. vol. 216; p. 528.
- Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Vehicle-brake. No. 1,147,728; July 27; Gaz. vol. 216; p. 1030.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Fan-mounting. No. 1,148,514; Aug. 3; Gaz. vol. 217; p. 11.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,148,842; Aug. 3; Gaz. vol. 217; p. 128.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Radiator-support for motor-vehicles. No. 1,153,227; Sept. 14; Gaz. vol. 218; p. 343.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Wind-shield for motor-vehicles. No. 1,154,313; Sept. 21; Gaz. vol. 218; p. 758.
- Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Gear-controlling mechanism for motor-vehicles. No. 1,157,693; Oct. 26; Gaz. vol. 219; p. 946.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Pressure-pump. No. 1,160,411; Nov. 16; Gaz. vol. 220; p. 788.
- Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Ignition system. No. 1,164,722; Dec. 21; Gaz. vol. 221; p. 780.
- Huff, William D., La Fayette, assignor of three-fourths to L. G. Moss, New Iberia, La. Operating oil-wells. No. 1,140,982; May 25; Gaz. vol. 214; p. 1254.
- Huffman, Alonzo, Mutual, Okla. Traction-chain. No. 1,165,178; Dec. 21; Gaz. vol. 221; p. 941.
- Huffman, Arthur. (See Walters and Huffman.)
- Huffman, Charlie E., Beatrice, Nebr. Bracket for drapery. No. 1,131,242; Mar. 9; Gaz. vol. 212; p. 520.
- Huffman, Clark F., Grand Rapids, Ohio. Agricultural cooker. No. 1,148,684; Aug. 3; Gaz. vol. 217; p. 72.
- Huffman, Edward, Minburn, Alberta, Canada. Wrench. No. 1,131,136; Mar. 9; Gaz. vol. 212; p. 483.
- Huffman, Louis, Toronto, Ontario, Canada. Web-cutting mechanism. No. 1,139,528; May 18; Gaz. vol. 214; p. 708.
- Huffman, Orla L., Albany, Ind., assignor to T. W. Harper, Moore, Mont. Gate. No. 1,153,847; Sept. 14; Gaz. vol. 218; p. 564.

Alphabetical list of patentees—Continued.

- Huffman, Oscar C. (See Voris and Hover, assignors.)
Huffman, William M. (See Reese, James H., assignor.)
Hug, Ernst, Grenzach, Germany, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Polychrolochin. No. 1,154,314; Sept. 21; Gaz. vol. 218; p. 758.
Hugh, Frank, New York, N. Y. Canning foods. No. 1,146,709; July 13; Gaz. vol. 216; p. 627.
Hughes, Arthur J., and A. J. Slade, Jr., assignors to Dexter Folder Company, Pearl River, N. Y. Slow-down and sheet-straightening mechanism. No. 1,128,877; Feb. 16; Gaz. vol. 211; p. 862.
Hughes, Arthur J., and R. E. Jones, assignors to Dexter Folder Company, Pearl River, N. Y. Sheet-straightening and slow-down device. No. 1,154,864; Sept. 28; Gaz. vol. 218; p. 973.
Hughes, Davydd C., assignor to Hughes-Wessling Company, Chicago, Ill. Electric-lighting device for vehicles. No. 1,146,939; July 20; Gaz. vol. 216; p. 728.
Hughes, Davydd C., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing and addressing machine. No. 1,151,950; Aug. 31; Gaz. vol. 217; p. 1482.
Hughes, Davydd C., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Dating-machine. No. 1,152,637; Sept. 7; Gaz. vol. 218; p. 95.
Hughes, Davydd C., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Type-setting machine. No. 1,153,390; Sept. 14; Gaz. vol. 218; p. 401.
Hughes, Davydd C., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Tool for forming and deforming type-stops in type-holders. No. 1,153,391; Sept. 14; Gaz. vol. 218; p. 402.
Hughes, Dow B., assignor to The Citizens Savings and Trust Company, trustee, Cleveland, Ohio. Ignition system. No. 1,138,569; May 4; Gaz. vol. 214; p. 295.
Hughes, Dow B., New York, N. Y., assignor to The Citizens Savings and Trust Company, Cleveland, Ohio, trustee. Magneto. No. 1,143,119; June 15; Gaz. vol. 218; p. 789.
Hughes, Dow B., New York, N. Y., assignor to The Citizens Savings and Trust Company, Cleveland, Ohio, trustee. Circuit-breaker. No. 1,146,167; July 13; Gaz. vol. 216; p. 438.
Hughes, Edward P. (See Bishop and Hughes.)
Hughes Electric Heating Company. (See Ruckle, Edward H., assignor.)
Hughes, Frederick. (See Taylor and Hughes.)
Hughes, George, and D. F. Glvens, Syracuse, N. Y. Valve-stem. No. 1,163,927; Dec. 14; Gaz. vol. 221; p. 463.
Hughes, Harold K., Brooklyn, N. Y. Oil-separator. No. 1,131,243; Mar. 9; Gaz. vol. 212; p. 520.
Hughes, Harry H., Poultney, Vt. Rock-drill attachment. No. 1,159,034; Nov. 2; Gaz. vol. 220; p. 215.
Hughes, Herbert H., St. Louis, Mo. Dolly-bar. No. 1,156,142; Oct. 12; Gaz. vol. 219; p. 311.
Hughes, Howard R., Houston, Tex. Rotary boring-drill. No. 1,124,241; Jan. 5; Gaz. vol. 210; p. 357.
Hughes, Howard R., Houston, Tex. Rotary boring-drill. No. 1,124,242; Jan. 5; Gaz. vol. 210; p. 357.
Hughes, Howard R., Houston, Tex. Single-disk drill. No. 1,124,243; Jan. 5; Gaz. vol. 210; p. 358.
Hughes, Howard R., Houston, Tex. Transverse-cutter rotary drill. No. 1,124,445; Jan. 12; Gaz. vol. 210; p. 478.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Roller boring-drill. No. 1,130,289; Mar. 2; Gaz. vol. 212; p. 156.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Roller boring-drill. No. 1,130,290; Mar. 2; Gaz. vol. 212; p. 156.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Rotary boring-drill. No. 1,131,701; Mar. 16; Gaz. vol. 212; p. 713.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Lubricating device for rotary drills. No. 1,136,134; Apr. 20; Gaz. vol. 213; p. 807.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Reamer. No. 1,136,135; Apr. 20; Gaz. vol. 213; p. 808.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Well-reamer. No. 1,139,529; May 18; Gaz. vol. 214; p. 709.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Cutter for rotary boring-drills. No. 1,143,271; June 15; Gaz. vol. 215; p. 843.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Rotary boring-drill. No. 1,143,272; June 15; Gaz. vol. 215; p. 843.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Rotary drill. No. 1,143,273; June 15; Gaz. vol. 215; p. 843.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Rotary-disk boring-drill. No. 1,143,274; June 15; Gaz. vol. 215; p. 844.
Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Demountable cutting edge for drilling-tools. No. 1,143,275; June 15; Gaz. vol. 215; p. 844.
Hughes, Howard R., Los Angeles, Cal., assignor to Sharp-Hughes Tool Company, Houston, Tex. Adjustable bearing for drill-bit cutting-disks. No. 1,163,540; Dec. 7; Gaz. vol. 221; p. 281.
Hughes, Hugh T., assignor of one-half to S. M. Strain, Youngstown, Ohio. Rail-joint. No. 1,128,683; Feb. 16; Gaz. vol. 211; p. 794.
Hughes, Hugh T., assignor of one-half to I. W. and L. S. Wilgoff, Youngstown, Ohio. Antiskid tread for resilient tires. No. 1,130,693; Mar. 2; Gaz. vol. 212; p. 298.
Hughes, Isaiah, Houtzdale, Pa. Train-stopping apparatus. No. 1,124,135; Jan. 5; Gaz. vol. 210; p. 318.
Hughes, James W., Narberth, Pa. Gearing for mechanical devices. No. 1,123,747; Jan. 5; Gaz. vol. 210; p. 187.
Hughes, James W., Philadelphia, Pa., assignor to Hughes-Lippincott Company, Camden, N. J. Holder for the stylus-needles of talking-machines. No. 1,143,276; June 15; Gaz. vol. 215; p. 844.
Hughes, James Y., Quanah, Tex. Cotton-separator. No. 1,153,180; Sept. 7; Gaz. vol. 218; p. 287.
Hughes, John C., New York, N. Y. Attachment for pens. No. 1,143,629; June 22; Gaz. vol. 215; p. 991.
Hughes, John F., Darby, Pa. Automatic dumping and readjusting wagon. No. 1,130,735; Mar. 9; Gaz. vol. 212; p. 346.
Hughes, John F., Toronto, Ontario, Canada. Flushing device for hydraulic elevators. No. 1,162,165; Nov. 30; Gaz. vol. 220; p. 1499.
Hughes-Lippincott Company. (See Hughes, James W., assignor.)
Hughes, Martha J. H., Detroit, Mich. Churn. No. 1,144,593; June 29; Gaz. vol. 215; p. 1354.
Hughes, Paschal, Marshall, Mich. Dog-collar. No. 1,127,249; Feb. 2; Gaz. vol. 211; p. 206.
Hughes, Samuel, Lindsay, Ontario, Canada. Rotary valve for engines. No. 1,125,101; Jan. 19; Gaz. vol. 210; p. 747.
Hughes, Samuel, Berkeley, Cal. Coaster. No. 1,145,485; July 6; Gaz. vol. 216; p. 179.
Hughes, Thomas, New Orleans, La. Dash-pot. No. 1,129,394; Feb. 23; Gaz. vol. 211; p. 1081.
Hughes-Wessling Company. (See Hughes, Davydd C., assignor.)
Hughes, William G., Pittsburgh, Pa. Condiment-holder. No. 1,151,881; Aug. 31; Gaz. vol. 217; p. 1461.
Hughes, William J., Newark, N. J. Transfer-ticket. No. 1,161,312; Nov. 23; Gaz. vol. 220; p. 1156.
Hughson, Edwin B., Branch, N. Y. Gasolene-tank attachment. No. 1,135,900; Apr. 13; Gaz. vol. 213; p. 686.
Hugo Manufacturing Company. (See Hawks, William, assignor.)
Huguenin, Paul D. E., La Tour-de-Peilz, Switzerland. Instrument for copying and measuring curved outlines. No. 1,141,640; June 1; Gaz. vol. 215; p. 196.
Huginine, Edward S., Rome, N. Y. Can-capping machine. No. 1,142,564; June 8; Gaz. vol. 215; p. 556.
Huhn, George P., Minneapolis, Minn. Sewing-cabinet. No. 1,157,539; Oct. 19; Gaz. vol. 219; p. 830.
Huhn, John H., Fairmont, W. Va. Machine for leveling coal in beehive coke-ovens. No. 1,155,066; Sept. 28; Gaz. vol. 218; p. 1043.
Huidekoper, Frederic L. (See Austin, Sydney B., assignor.)
Huismann, Johann, Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Sulfonic acid of aromatic aminothiazoles. No. 1,149,582; Aug. 10; Gaz. vol. 217; p. 492.
Huismann, Johann, Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Yellow azo dye. No. 1,159,386; Nov. 9; Gaz. vol. 220; p. 372.
Huizenga, John A., Rock Valley, Iowa. Check-protector. No. 1,146,571; July 13; Gaz. vol. 216; p. 581.
Huizer, Hendrik D. P., The Hague, Netherlands. Apparatus for the manufacture of a drinking vessel made of ice. No. 1,123,537; Jan. 5; Gaz. vol. 210; p. 117.
Hulbert, Allen M., St. Cloud, Minn. Container. No. 1,138,954; May 11; Gaz. vol. 214; p. 471.
Hulbert, Clinton H., Manila, Philippine Islands. Instrument for reproducing and magnifying sound-waves. No. 1,153,431; Sept. 14; Gaz. vol. 218; p. 416.
Hulbert, James C., St. Louis, Mo., assignor of one-third to W. B. Whitney, New York, N. Y. Aeroplane control. No. 1,151,685; Aug. 31; Gaz. vol. 217; p. 1392.
Hulbert, Prescott M., Detroit, Mich. Manufacturing articles out of highly-refractory material. No. 1,155,358; Oct. 5; Gaz. vol. 219; p. 12.
Hulburd, Charles H. (See Greeley, Charles U., assignor.)
Hulburd, Charles P. (See Ramsey and Hulburd.)
Hulett, Frank E., and R. E. Sheal, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Pontoon-crane. No. 1,161,679; Nov. 23; Gaz. vol. 220; p. 1283.
Hulett, Frank E., and R. E. Sheal, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Pontoon-crane. No. 1,161,680; Nov. 23; Gaz. vol. 220; p. 1283.
Hulsh, David S., assignor to Canadian Independent Telephone Company, Limited, Toronto, Ontario, Canada. Automatic telephone system. No. 1,147,864; July 27; Gaz. vol. 216; p. 1077.

Alphabetical list of patentees—Continued.

- Huling, James M. (See Blundell, William C., assignor.)
- Hult, John A., assignor to Automatic Electric Company, Chicago, Ill. Selective signaling system. No. 1,157,396; Oct. 19; Gaz. vol. 219; p. 780.
- Hull, Foster J., New York, assignor, by mesne assignments, to New York Central Iron Works Company, Geneva, N. Y. Sand-riddling machine. No. 1,132,271; Mar. 16; Gaz. vol. 212; p. 922.
- Hull, Joseph V., Brooklyn, assignor, by mesne assignments, to Anchor Cap & Closure Corporation, New York, N. Y. Machine for vacuum-sealing. No. 1,134,065; Mar. 30; Gaz. vol. 212; p. 1648.
- Hull, Joseph V., assignor, by mesne assignments, to Anchor Cap & Closure Corporation, New York, N. Y. Receptacle-closure. No. 1,134,066; Mar. 30; Gaz. vol. 212; p. 1648.
- Hull, Joseph V., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Closure. No. 1,134,067; Mar. 30; Gaz. vol. 212; p. 1648.
- Hull, Joseph V., assignor, by mesne assignments, to Anchor Cap & Closure Corporation, New York, N. Y. Receptacle-closure. No. 1,134,068; Mar. 30; Gaz. vol. 212; p. 1649.
- Hull, Matthew R., assignor to Rex Buggy Company, Connersville, Ind. Latch for vehicle-doors. No. 1,154,398; Sept. 21; Gaz. vol. 218; p. 788.
- Hull, Matthew R., assignor to Rex Buggy Company, Connersville, Ind. Ventilator for closed-vehicle bodies. No. 1,154,399; Sept. 21; Gaz. vol. 218; p. 788.
- Hull, Robert C., and J. L. Woodbridge, assignors to The Electric Storage Battery Company, Philadelphia, Pa. Car-axle lighting. No. 1,161,681; Nov. 23; Gaz. vol. 220; p. 1284.
- Hull, Scott H., Cincinnati, Ohio. Glaze, enamel, or glass composition. No. 1,158,922; Nov. 2; Gaz. vol. 220; p. 180.
- Hullings, George F., Washington, D. C. Tag forming and affixing machine. No. 1,127,006; Feb. 2; Gaz. vol. 211; p. 120.
- Hullings, George F., and D. P. Moore, Washington, D. C. Staple-affixing machine. No. 1,133,862; Mar. 30; Gaz. vol. 212; p. 1582.
- Hullings, George F., and D. P. Moore, Washington, D. C. Staple-affixing machine. No. 1,136,807; Apr. 20; Gaz. vol. 213; p. 1048.
- Hulme, John W., Jersey City, N. J., assignor to Consolidated Car Heating Company, Albany, N. Y. Automatic safety-lock for doors. (Reissue.) No. 13,978; Sept. 14; Gaz. vol. 218; p. 575.
- Hulse, Edward C., Springfield, Mo. Nail-set hammer. No. 1,143,277; June 15; Gaz. vol. 215; p. 845.
- Hulse, John. (See Webster, William A., assignor.)
- Hulsman, Robert E. (See Tomaso, Salvatore D., assignor.)
- Hulstedt, Albin L., Bishop Hill, Ill. Holder for household articles. No. 1,136,011; Apr. 20; Gaz. vol. 213; p. 766.
- Hulstedt, Otis L., Oneida, Ill. Hay-sling. No. 1,142,432; June 8; Gaz. vol. 215; p. 512.
- Hult, Carl A. and O. W., Stockholm, Sweden. Outboard motor. No. 1,146,427; July 13; Gaz. vol. 216; p. 528.
- Hult, Carl A. and O. W., Stockholm, Sweden. Means for suspending outboard motors from boats. No. 1,165,603; Dec. 28; Gaz. vol. 221; p. 1127.
- Hult, Carl A., Stockholm, and K. A. E. Tinnberg, Partille, Sweden. Liner for centrifugal liquid-separators. No. 1,151,686; Aug. 31; Gaz. vol. 217; p. 1392.
- Hult, Oscar W. (See Hult, Carl A. and O. W.)
- Hult, Oscar W., Stockholm, Sweden. Boat-motor. No. 1,138,294; May 4; Gaz. vol. 214; p. 200.
- Hulteen, Alfred. (See Peterson, Andrew R., assignor.)
- Hultin, Adolph R., Prosper, Oreg. Apparatus for controlling friction-clutches. No. 1,163,541; Dec. 7; Gaz. vol. 221; p. 281.
- Hultström, David C. A., Vancouver, British Columbia, Canada. Mosquito-veil. No. 1,164,351; Dec. 14; Gaz. vol. 221; p. 611.
- Humana Company. (See Morrison, Lewis E., assignor.)
- Humann, Otto V., Worcester, Mass. Perspective-finder. No. 1,138,480; May 4; Gaz. vol. 214; p. 267.
- Humason, Granville A., Shreveport, La. Drill. No. 1,151,104; Aug. 24; Gaz. vol. 217; p. 1147.
- Humber, Albert M. (See Todd and Humber.)
- Humber, Gustave, Denver, Colo. Arc-light. No. 1,146,498; July 13; Gaz. vol. 216; p. 555.
- Hume, George S., Eastport, Me. Sealing cans. No. 1,141,061; May 25; Gaz. vol. 214; p. 1281.
- Hume, John, Houston, Tex., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Hose-coupling. No. 1,136,012; Apr. 20; Gaz. vol. 213; p. 767.
- Hume, John E., and G. S. Thompson, Clinton, Mass. Filling-changer. No. 1,133,286; Mar. 30; Gaz. vol. 212; p. 1375.
- Hume, Walter E., Fairfax county, assignor of one-fifth to M. P. Greene, one-fifth to M. E. Greene, one-fifth to P. M. Baldwin, Alexandria, Va., and one-fifth to G. H. Beuchert, Washington, D. C. Box-fastener. No. 1,152,179; Aug. 31; Gaz. vol. 217; p. 1562.
- Humm, Hans, assignor of one-half to F. W. L. Graf, Denver, Colo. Silencer. No. 1,127,250; Feb. 2; Gaz. vol. 211; p. 206.
- Hummel, August C., Cincinnati, Ohio. Folding crib. No. 1,135,022; Apr. 13; Gaz. vol. 213; p. 380.
- Hummel, Carl L. (See Partridge and Hummel.)
- Hummel, Ernest A., assignor to A. L. Haman, St. Paul, Minn. Winding-switch for self-winding clocks. No. 1,157,782; Oct. 26; Gaz. vol. 219; p. 975.
- Hummel, Frank J., Pittsburgh, Pa. Toy railway. No. 1,153,922; Sept. 21; Gaz. vol. 218; p. 623.
- Hummel, John P., Milwaukee, Wis. Box. No. 1,144,130; June 22; Gaz. vol. 215; p. 1166.
- Hummel, John P., Milwaukee, Wis. Shipping-box. No. 1,148,685; Aug. 3; Gaz. vol. 217; p. 73.
- Hummel, Walter L. (See Partridge and Hummel.)
- Hummon, Oscar P. (See Clark and Hummon.)
- Hump Hairpin Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
- Hump Hairpin Manufacturing Company, The. (See Sisson, Isaac H., assignor.)
- Humpage, Thomas, Bristol, England. Power-hacksaw. No. 1,146,572; July 13; Gaz. vol. 216; p. 581.
- Humphrevill, Frank H. (See Hebble and Humphrevill.)
- Humphrey, Alfred H., New York, N. Y. Combination gas and electric lamp. No. 1,125,907; Jan. 19; Gaz. vol. 210; p. 1034.
- Humphrey, Cien S., Brooklyn, N. Y. Toilet-paper. No. 1,125,847; Jan. 19; Gaz. vol. 210; p. 1013.
- Humphrey Company. (See Osmer, John E., assignor.)
- Humphrey, David, Cleveland, Ohio. Candy-cooling apparatus. No. 1,132,936; Mar. 23; Gaz. vol. 212; p. 1213.
- Humphrey, Ernest N., New Britain, Conn. Buckle attachment. No. 1,125,023; Jan. 12; Gaz. vol. 210; p. 684.
- Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Belt-buckle. No. 1,139,036; May 11; Gaz. vol. 214; p. 502.
- Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Attachment for garment-supporters. No. 1,144,963; June 29; Gaz. vol. 215; p. 1479.
- Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Garment-supporter attachment. No. 1,149,769; Aug. 10; Gaz. vol. 217; p. 562.
- Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Separable fastener. No. 1,156,008; Oct. 5; Gaz. vol. 219; p. 236.
- Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Suspender attachment. No. 1,160,098; Nov. 9; Gaz. vol. 220; p. 625.
- Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Cord-tube for suspenders and the like. No. 1,161,771; Nov. 23; Gaz. vol. 220; p. 1314.
- Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Buckle. No. 1,161,804; Nov. 23; Gaz. vol. 220; p. 1326.
- Humphrey, Frederick J., Kalamazoo, Mich. Globe-holder for lamps. No. 1,123,298; Jan. 5; Gaz. vol. 210; p. 33.
- Humphrey, Frederick J., assignor to General Gas Light Company, Kalamazoo, Mich. Globe-holder. No. 1,139,684; May 18; Gaz. vol. 214; p. 764.
- Humphrey Gas Pump Company. (See Brown, William C., assignor.)
- Humphrey, Henry A., assignor to Safety Elevator Lock and Signal Company, Kansas City, Mo. Electric signaling mechanism for elevators. No. 1,129,292; Feb. 23; Gaz. vol. 211; p. 1044.
- Humphrey, Henry A., assignor to Safety Elevator Lock and Signal Company, Kansas City, Mo. Car-indicator. No. 1,155,817; Oct. 5; Gaz. vol. 219; p. 172.
- Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 1,129,293; Feb. 23; Gaz. vol. 211; p. 1045.
- Humphrey, Herbert S., Kalamazoo, Mich. Coll-winding machine. No. 1,165,779; Dec. 28; Gaz. vol. 221; p. 1189.
- Humphrey, Herbert S., Kalamazoo, Mich., assignor to Ruud Manufacturing Company, Pittsburgh, Pa. Instantaneous-water-heater casing. No. 1,135,805; Apr. 13; Gaz. vol. 213; p. 652.
- Humphrey, Herbert S., Kalamazoo, Mich., assignor to Ruud Manufacturing Company, Pittsburgh, Pa. Water-heater. No. 1,142,433; June 8; Gaz. vol. 215; p. 512.
- Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum floor-covering. No. 1,129,571; Feb. 23; Gaz. vol. 211; p. 1142.
- Humphreys, Jerome N., Dallas, Tex. Crimping-machine. No. 1,149,520; Aug. 10; Gaz. vol. 217; p. 471.
- Humphreys, Oscar M., Atchafalpa, British Columbia, Canada. Calendar-clock. No. 1,160,898; Nov. 16; Gaz. vol. 220; p. 961.
- Humphreys, Robert, Henryetta, Okla. Cake-dropping machine. No. 1,151,465; Aug. 24; Gaz. vol. 217; p. 1268.
- Humphries, Aubrey, Napier, New Zealand. Apparatus for use in administering anesthetics. No. 1,125,542; Jan. 19; Gaz. vol. 210; p. 904.
- Humphries, George, Boston, Mass. Mop-wringer. No. 1,138,570; May 4; Gaz. vol. 214; p. 296.
- Humphries, Herbert B. P. (See Dodd and Humphries.)
- Humphris, Frank, Kingston-on-Thames, England. Wrench. No. 1,157,540; Oct. 19; Gaz. vol. 219; p. 830.
- Hundert, Adolf, New York, N. Y. Lock for windows. No. 1,139,870; May 18; Gaz. vol. 214; p. 830.
- Hundley, Nannie L. (See Sprouse, James L., assignor.)

Alphabetical list of patentees—Continued.

- Hundt, Albert, Pankow, Germany, assignor to General Electric Company. Electrical apparatus. No. 1,160,716; Nov. 16; Gaz. vol. 220; p. 900.
- Huneke, John, Chicago, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me. Mail-bag holder. No. 1,152,816; Sept. 7; Gaz. vol. 218; p. 160.
- Hungerford, Arthur. (See Taylor, Harold D., assignor.)
- Hungerford, Oliver T., Belleville, N. J. Insulating wire. No. 1,157,694; Oct. 26; Gaz. vol. 219; p. 947.
- Hungerford, Samuel J., Winnipeg, Manitoba, Canada. Superheater. No. 1,124,446; Jan. 12; Gaz. vol. 210; p. 478.
- Hungerford, Warren H., assignor to F. M. Peters, Chicago, Ill. Tachometer. No. 1,124,447; Jan. 12; Gaz. vol. 210; p. 479.
- Hungerford, Warren H., assignor to F. M. Peters, Chicago, Ill. Power-transmitting apparatus. No. 1,155,314; Sept. 28; Gaz. vol. 218; p. 1126.
- Hunick, Clarence C., assignor to Prepayment Car Sales Company, New York, N. Y. Prepayment-car. No. 1,134,387; Apr. 6; Gaz. vol. 213; p. 110.
- Hunkin-Conkey Construction Company, The. (See Hunkin, William J., assignor.)
- Hunkin, William J., assignor to The Hunkin-Conkey Construction Company, Cleveland, Ohio. Clamp. No. 1,153,552; Sept. 14; Gaz. vol. 218; p. 461.
- Hunkins, William S., Los Angeles, Cal. Anchoring attachment for safety-pins. No. 1,162,166; Nov. 30; Gaz. vol. 220; p. 1499.
- Hunold, Ernest, Providence, R. I. Razor-strop clamping and securing device. No. 1,126,013; Jan. 26; Gaz. vol. 210; p. 1105.
- Hunsberger, Neville, Aldan, assignor to S. Sternberger, Philadelphia, Pa. Safety-pin. No. 1,135,692; Apr. 13; Gaz. vol. 213; p. 614.
- Hunsinger, John, Port Huron, Mich. Brake device for sewing-machines. No. 1,134,855; Apr. 6; Gaz. vol. 213; p. 278.
- Hunso Machinery Company. (See Soars, Robert D., assignor.)
- Hunt, Albert L., and C. Sagemiller, New London, Wis. Anchor-winch. No. 1,147,095; July 20; Gaz. vol. 216; p. 782.
- Hunt, Alvin T. (See Spurgeon, Hunt, and Baker.)
- Hunt, Amos M. (See Woerner and Hunt.)
- Hunt, Azor R., and J. H. Grose, Munhall, Pa. Forging wheels. No. 1,140,681; May 25; Gaz. vol. 214; p. 1148.
- Hunt, Charles A., Jr., Lexington, N. C. Bobbin-cop. No. 1,124,448; Jan. 12; Gaz. vol. 210; p. 479.
- Hunt, Charles E., Thomasville, Ala. Starter for explosive-engines. No. 1,153,085; Sept. 7; Gaz. vol. 218; p. 255.
- Hunt, Daniel F., Easton, Pa. Well-packing. No. 1,136,879; Apr. 20; Gaz. vol. 213; p. 1073.
- Hunt, David E., *et al.* (See Hattersley and Strub, assignors.)
- Hunt, David E., *et al.* (See Strub, Gustav, assignor.)
- Hunt, Ernest A., Mount Eden, near Auckland, New Zealand. Vacuum-cleaner. No. 1,136,136; Apr. 20; Gaz. vol. 213; p. 808.
- Hunt, Fred L. (See Greeson, Clarett B., assignor.)
- Hunt, Harmon J., Detroit, Mich. Metallic base for show-cases. No. 1,157,985; Oct. 26; Gaz. vol. 219; p. 1048.
- Hunt, Helm, Ferris & Company. (See Ferris, Henry L., assignor.)
- Hunt, Ida C., Wooldridge, Mont. Corer. No. 1,135,185; Apr. 13; Gaz. vol. 213; p. 436.
- Hunt, John A., Pleasanton, Cal. Combination plug and pilot-light. No. 1,162,167; Nov. 30; Gaz. vol. 220; p. 1500.
- Hunt, John B., Beloit, Wis. Block-molding machine. No. 1,131,840; Mar. 16; Gaz. vol. 212; p. 766.
- Hunt, John B., Mansfield, Ohio. Apparatus for setting fractured or broken limbs. No. 1,145,064; July 6; Gaz. vol. 216; p. 32.
- Hunt, John C., *et al.* (See Hunt, Warren M., assignor.)
- Hunt, John H., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,148,843; Aug. 3; Gaz. vol. 217; p. 129.
- Hunt, Louis J., Sandycroft, Wales, assignor to General Electric Company. Alternating-current dynamo-electric machine. No. 1,160,717; Nov. 16; Gaz. vol. 220; p. 900.
- Hunt, Manning M., Napa, Cal. Lock. No. 1,134,614; Apr. 6; Gaz. vol. 213; p. 193.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,147,865; July 27; Gaz. vol. 216; p. 1078.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,160,287; Nov. 16; Gaz. vol. 220; p. 745.
- Hunt, Rome E. (See Forest and Hunt.)
- Hunt, Thomas B., Chicago, Ill. Card-box for railway-cars. No. 1,130,291; Mar. 2; Gaz. vol. 212; p. 156.
- Hunt and Van Nice. (See Mahnken and Van Nice, assignors.)
- Hunt, Warren M., assignor of one-third to C. W. Rabbit and one-third to J. C. Hunt, Amboy, Ill. Muffler. No. 1,148,900; Aug. 3; Gaz. vol. 217; p. 147.
- Hunt, Wilfred, Hillhead, Glasgow, Scotland. Rotary mechanism for the transmission of power. No. 1,127,251; Feb. 2; Gaz. vol. 211; p. 207.
- Hunt, William C., Toronto, Ontario, Canada. Link for light-fixtures. No. 1,136,531; Apr. 20; Gaz. vol. 213; p. 950.
- Hunt, William F., San Francisco, Cal. Changeable-speed gearing. No. 1,143,048; June 15; Gaz. vol. 215; p. 763.
- Hunt, William W., National City, Cal. Gas-engine exhaust mechanism. No. 1,149,831; Aug. 10; Gaz. vol. 217; p. 584.
- Hunt, William H., New York, N. Y. Dumping-wagon. No. 1,152,510; Sept. 7; Gaz. vol. 218; p. 46.
- Hunt, William W., Kansas City, Mo. Steering device. No. 1,164,522; Dec. 14; Gaz. vol. 221; p. 671.
- Hunter Arms Co., The. (See Curtis, Arthur P., assignor.)
- Hunter, Charles J. (See Edwards and Hunter.)
- Hunter, Charles J., Newport News, Va. Motor-cycle brace. No. 1,160,079; Nov. 9; Gaz. vol. 220; p. 618.
- Hunter, Charlie J., and E. C. Tweedy, Concord, Va. Portable soda-fountain. No. 1,153,307; Sept. 14; Gaz. vol. 218; p. 370.
- Hunter, Charles M. (See Loewenbach and Hunter.)
- Hunter, Elbert I., Stephenville, Tex. Engine. No. 1,149,521; Aug. 10; Gaz. vol. 217; p. 471.
- Hunter, Ervin C., Galesburg, Ill. Glove or mitten. No. 1,126,014; Jan. 26; Gaz. vol. 210; p. 1105.
- Hunter, Harry D., Marion, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill. Scraper for furrow-openers. No. 1,129,869; Mar. 2; Gaz. vol. 212; p. 12.
- Hunter, Harry S., assignor to Hunter Saw & Machine Company, Pittsburgh, Pa. Milling-saw. No. 1,144,131; June 22; Gaz. vol. 215; p. 1166.
- Hunter, James H., Omaha, Nebr. Harnessing the underflow adjacent to streams in sandy strata. No. 1,125,848; Jan. 19; Gaz. vol. 210; p. 1013.
- Hunter, John S., Coalinga, Cal. Power-transmitting mechanism. No. 1,136,137; Apr. 20; Gaz. vol. 213; p. 809.
- Hunter, John T. (See Cowell, Ivan G., assignor.)
- Hunter, Lloyd T., Dorchester, assignor of one-half to F. S. Johnson, Campello, Mass. Automatic fire-escape. No. 1,142,710; June 8; Gaz. vol. 215; p. 605.
- Hunter, Luella C., *et al.* (See Hunter, W. Lee, assignor.)
- Hunter, Percy E., Pittsburgh, Pa. Supporting-bottom for annealing-boxes. No. 1,149,770; Aug. 10; Gaz. vol. 217; p. 562.
- Hunter, Percy E., Pittsburgh, Pa. Annealing-box. No. 1,154,400; Sept. 21; Gaz. vol. 218; p. 788.
- Hunter, Philip V., Newcastle-upon-Tyne, England. Electric switch. No. 1,127,996; Feb. 9; Gaz. vol. 211; p. 507.
- Hunter, Robert, Spokane, Wash. Concentrating-table. No. 1,151,466; Aug. 24; Gaz. vol. 217; p. 1269.
- Hunter, Robert F., Bellefonte, Pa. Knuckle. No. 1,132,348; Mar. 16; Gaz. vol. 212; p. 949.
- Hunter, Roy W., *et al.* (See Hunter, W. Lee, assignor.)
- Hunter, Rudolph M. (See Burrow, Edward F., assignor.)
- Hunter, Rudolph M., Philadelphia, Pa. Sprinkler-nozzle. No. 1,160,612; Nov. 16; Gaz. vol. 220; p. 860.
- Hunter, Samuel, Syracuse, N. Y. Combined scarecrow and advertising device. No. 1,142,326; June 8; Gaz. vol. 215; p. 472.
- Hunter, Samuel, Syracuse, N. Y. Tire-armor. No. 1,163,408; Dec. 7; Gaz. vol. 221; p. 235.
- Hunter Saw & Machine Company. (See Hunter, Harry S., assignor.)
- Hunter, Simon A., Griffin, Saskatchewan, Canada. Wrench. No. 1,164,815; Dec. 21; Gaz. vol. 221; p. 813.
- Hunter, Stuart A., Newton, Kans. Construction for pneumatic tires. No. 1,145,993; July 13; Gaz. vol. 216; p. 376.
- Hunter, Una, *et al.* (See Hunter, W. Lee, assignor.)
- Hunter, W. Lee, Seattle, Wash. Dental jig-polisher. No. 1,151,361; Aug. 24; Gaz. vol. 217; p. 1234.
- Hunter, W. Lee, assignor to R. W. U., and L. C. Hunter, Seattle, Wash. Cam-movement for jig-polishers. No. 1,134,047; Mar. 30; Gaz. vol. 212; p. 1642.
- Hunter, William A., Mankato, Kans. Brake. No. 1,144,359; June 29; Gaz. vol. 215; p. 1275.
- Hunter, William B. (See Clark, Ira P., assignor.)
- Hunter, William R., Cleveland, Ohio. Plasterer's tool. No. 1,135,901; Apr. 13; Gaz. vol. 213; p. 686.
- Hunter, William R., Cleveland, Ohio. Corner-strip for walls. No. 1,138,955; May 11; Gaz. vol. 214; p. 471.
- Huntington, Fred B., Cosmopolis, Wash. Feed mechanism for shingle-machines. No. 1,149,058; Aug. 3; Gaz. vol. 217; p. 203.
- Huntington, Hiram H., Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio. Hanger for furrow-opener drag-bars. No. 1,147,324; July 20; Gaz. vol. 216; p. 860.
- Huntington, Percy, Liverpool, England. Suspender for electric cables or the like. No. 1,128,606; Feb. 16; Gaz. vol. 211; p. 768.
- Huntington, Samuel P., assignor, by mesne assignments, to The Recording Register & Fare Box Company, New Haven, Conn. Fare-register. No. 1,144,475; June 29; Gaz. vol. 215; p. 1314.

- Huntington, Scott A., Syracuse, N. Y. Junction-box. No. 1,154,773; Sept. 28; Gaz. vol. 218; p. 944.
- Huntley, Delancey E., and W. H. Bentine, Wellston, Ohio. Electric automatic bowling-alley. No. 1,151,269; Aug. 24; Gaz. vol. 217; p. 1204.
- Huntley, George M., Everett, Mass. Supporting structure for desks, chairs, &c. No. 1,156,232; Oct. 12; Gaz. vol. 219; p. 339.
- Huntley, John G., West Pittston borough, Pa. Coal-drill. No. 1,128,878; Feb. 16; Gaz. vol. 211; p. 862.
- Huntley, Wesley F., Ashland, Ky., and R. M. Berkeley, Richmond, Va. Automatic safety air-brake appliance. No. 1,143,198; June 15; Gaz. vol. 215; p. 818.
- Huntoon, Charles F., Chicago, Ill. Center-bearing. No. 1,162,925; Dec. 7; Gaz. vol. 221; p. 66.
- Hunzinger, George, assignor to G. Hunzinger & Son, New York, N. Y. Chair. No. 1,154,021; Sept. 21; Gaz. vol. 218; p. 658.
- Hunzinger & Son, George. (See Hunzinger, George, assignor.)
- Huot, Josephs G., Montreal, Quebec, Canada. Shutter-blower. No. 1,164,523; Dec. 14; Gaz. vol. 221; p. 672.
- Hupe, Friedrich, U. S. Navy. Rotary engine. No. 1,138,481; May 4; Gaz. vol. 214; p. 267.
- Hupe, Friedrich, U. S. Navy. Rotary steam-engine. No. 1,153,086; Sept. 7; Gaz. vol. 218; p. 255.
- Hupfeld Aktien-Gesellschaft, Ludwig. (See Börner, Gustav R., assignor.)
- Hupfeld Aktiengesellschaft, Bohlitz-Ehrenberg, Ludwig. (See Hennig, Gustav K., assignor.)
- Hupfer, Theodore H. (See Harrison and Hupfer.)
- Hupp, Albert, Washington, D. C. Shaft-coupling. No. 1,126,219; Jan. 26; Gaz. vol. 210; p. 1181.
- Hupp, Albert, Kansas City, Mo. Automatic mail-exchange system. No. 1,163,928; Dec. 14; Gaz. vol. 221; p. 464.
- Hupp Motor Car Company. (See Hastings, Donald T., assignor.)
- Hupp Motor Car Company. (See Nelson, Emil A., assignor.)
- Hupp Motor Car Company. (See Watts, Frank E., assignor.)
- Hupp Motor Car Company. (See Watts and Hastings, assignors.)
- Huppertz, Francis, St. Francis, Wis. Shutter-releaser for cameras. No. 1,149,832; Aug. 10; Gaz. vol. 217; p. 585.
- Hurd, Earl, Kansas City, Mo. Process of and apparatus for producing moving pictures. No. 1,143,542; June 15; Gaz. vol. 215; p. 936.
- Hurd & Haggin. (See Le Pointors, Leon J., assignor.)
- Hurd, Henry L., Beverly, Mass. Pressure-cylinder for engines. No. 1,145,065; July 6; Gaz. vol. 216; p. 33.
- Hurd, Judson B., Washington, D. C. Key-controlled vending-machine. No. 1,152,638; Sept. 7; Gaz. vol. 218; p. 95.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,137,210; Apr. 27; Gaz. vol. 213; p. 1229.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Cylinder-lock. No. 1,141,463; June 1; Gaz. vol. 215; p. 135.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Panic-bolt mechanism. No. 1,145,590; July 6; Gaz. vol. 216; p. 213.
- Hurd, William B., Langley, Wash. Leveling device. No. 1,132,349; Mar. 16; Gaz. vol. 212; p. 950.
- Hurdie, George V., Port Kennedy, assignor to Ehret Magnesia Manufacturing Company, Valley Forge, Pa. Apparatus for delivering blocks of magnesia covering. No. 1,147,096; July 20; Gaz. vol. 216; p. 782.
- Hurff, Thomas W., Woodbury, N. J. Smoker's pipe. No. 1,146,259; July 13; Gaz. vol. 216; p. 470.
- Hurlbrink, Ernst, Berlin-Friedenau, assignor to Martini & Hüneke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Device for tanks containing inflammable liquids. No. 1,147,729; July 27; Gaz. vol. 216; p. 1030.
- Hurlbrink, Ernst, Berlin-Friedenau, assignor to Martini & Hüneke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Container for inflammable liquids. No. 1,151,184; Aug. 24; Gaz. vol. 217; p. 1175.
- Hurley, Albert B., assignor of one-half to L. W. Hurley, Seaford, Del. Hose coupling and guard. No. 1,140,307; May 18; Gaz. vol. 214; p. 982.
- Hurley, Cornelius F., Malden, Mass. Can-opener. No. 1,124,449; Jan. 12; Gaz. vol. 210; p. 480.
- Hurley, Daniel. (See Cantion and Hurley.)
- Hurley, Daniel, and J. E. O'Shea, New York, N. Y. Drying and impregnating electrical conductors. No. 1,163,342; Dec. 7; Gaz. vol. 221; p. 213.
- Hurley, David J. (See McLaughlin, Milton P., assignor.)
- Hurley, John W., Portland, Oreg. Wrench. No. 1,123,880; Jan. 5; Gaz. vol. 210; p. 233.
- Hurley, Luther W. (See Hurley, Albert B., assignor.)
- Hurley Machine Company. (See Fisher, Alva J., assignor.)
- Hurley Machine Company. (See Loeffler, Henry, assignor.)
- Hurley, Richard, assignor to J. C. Farr, Jr., Hoboken, N. J. Storage battery. No. 1,138,220; May 4; Gaz. vol. 214; p. 174.
- Hurley, Richard, assignor to J. C. Farr, Jr., Hoboken, N. J. Electrolyte. No. 1,138,221; May 4; Gaz. vol. 214; p. 174.
- Hurst, Charles M., St. Louis, Mo. Railway-switch sweeper. No. 1,131,702; Mar. 16; Gaz. vol. 212; p. 714.
- Hurst, Paul. (See Lyons, George R., assignor.)
- Hurst, Ralph E., Wellington, Kans. Pump. No. 1,137,211; Apr. 27; Gaz. vol. 213; p. 1230.
- Hurst, Smith. (See Gassaway, John H., assignor.)
- Hurst, Wilford L., Aspen, Colo. Stack-cutting implement. No. 1,161,682; Nov. 23; Gaz. vol. 220; p. 1284.
- Hurst, Willis T., assignor to Pittsburgh Coal Washer Company, Pittsburgh, Pa. Conveying-link construction. No. 1,154,401; Sept. 21; Gaz. vol. 218; p. 789.
- Hurt, Henry H., Covington, Va., assignor to Robeson Process Company, New York, N. Y. Tanning material and preparing the same. No. 1,147,245; July 20; Gaz. vol. 216; p. 835.
- Hurtig, Josef, and E. A. Ericsson, Wilkinsburg, Pa. Match-box. No. 1,137,624; Apr. 27; Gaz. vol. 213; p. 1375.
- Hurwitz, Max. (See Hurwitz, Samuel, assignor.)
- Hurwitz, Samuel, assignor of one-half to M. Hurwitz, Wilkes-Barre, Pa. Safety-envelop. No. 1,129,096; Feb. 23; Gaz. vol. 211; p. 976.
- Hurxthal, Frederick K. (See Mulvaney, Seth, assignor.)
- Huschle, William F., Jr., New York, N. Y. Running-board seat for automobiles. No. 1,153,223; Oct. 26; Gaz. vol. 219; p. 1131.
- Huse, Frederick R., Boston, Mass. Mica chimney. No. 1,131,931; Mar. 16; Gaz. vol. 212; p. 797.
- Huseby, Christian O., Crary, N. D. Hen's nest-box. No. 1,138,757; May 11; Gaz. vol. 214; p. 401.
- Husher, John N., Monessen, Pa. Condenser. No. 1,127,252; Feb. 2; Gaz. vol. 211; p. 207.
- Huskisson, Percy W., Poole, England. Carbureter. No. 1,157,541; Oct. 19; Gaz. vol. 219; p. 830.
- Huson, Almon R., Round Lake, Ill. Washing-machine. No. 1,150,598; Aug. 17; Gaz. vol. 217; p. 917.
- Hussey, Alfred R., Harvard, assignor to American Water Supply Company of New England, Boston, Mass. Cup-holder. No. 1,138,758; May 11; Gaz. vol. 214; p. 402.
- Hussey, Herbert L., Winthrop, Mass. Mat for running-boards. No. 1,130,292; Mar. 2; Gaz. vol. 212; p. 157.
- Hussey, Thomas A., Bridgeport, Conn. Spring-heel for shoes. No. 1,147,508; July 20; Gaz. vol. 216; p. 927.
- Hustad, Mattias M., Ortle, S. D. Wall-paper trimming and pasting apparatus. No. 1,149,771; Aug. 10; Gaz. vol. 217; p. 563.
- Husted, Eugene W., L. Sorensen, and P. Murphy, Holton, Mich. Milk-can and cover and fastening means for the same. No. 1,134,856; Apr. 6; Gaz. vol. 213; p. 278.
- Husted, Julius H., Chicago, Ill. Envelop-fastener. No. 1,150,521; Aug. 17; Gaz. vol. 217; p. 889.
- Huston, Thomas O., Geneva, Nebr. Safety-envelop. No. 1,140,595; May 25; Gaz. vol. 214; p. 1120.
- Huston, Walter, Toronto, Ontario, Canada, assignor of one-half to B. Whipple, Chicago, Ill. Device for making facial expressions. No. 1,164,816; Dec. 21; Gaz. vol. 221; p. 814.
- Huston, William E., Valley View, Tex. Show-case. No. 1,132,585; Mar. 23; Gaz. vol. 212; p. 1083.
- Hustus, Arthur, Boston, Mass. Nozzle. No. 1,124,742; Jan. 12; Gaz. vol. 210; p. 585.
- Husz, Arpad F., Camden, N. J. Door. No. 1,158,807; Nov. 2; Gaz. vol. 220; p. 140.
- Huszár, Géza G., New York, N. Y. Carbureter. No. 1,146,625; July 13; Gaz. vol. 216; p. 599.
- Hutaff, George H., Wilmington, N. C. Tumbler washing and rinsing machine. No. 1,153,228; Sept. 14; Gaz. vol. 218; p. 343.
- Hutches, Benjamin F., Jr., Allendale, N. J. Self-starter for explosive-engines. No. 1,134,537; Apr. 6; Gaz. vol. 213; p. 165.
- Hutchings, Frederick E., New York, N. Y. Car-fender. No. 1,133,287; Mar. 30; Gaz. vol. 212; p. 1375.
- Hutchings, William S. (See Goddard and Hutchings.)
- Hutchings, William, Eveleth, Minn. Cable-grip. No. 1,153,621; Sept. 14; Gaz. vol. 218; p. 484.
- Hutchins Car Roofing Company. (See Hawksworth, David W., assignor.)
- Hutchins Car Roofing Company. (See Herbert, Samuel, assignor.)
- Hutchins Car Roofing Company. (See Thompson, William D., assignor.)
- Hutchins Car Roofing Company. (See Thompson and Otis, assignors.)
- Hutchins Car Roofing Company. (See Whyte, Frederick M., assignor.)
- Hutchins, Clayton B., Algona, Iowa. Corn-loom. No. 1,130,603; Mar. 2; Gaz. vol. 212; p. 267.
- Hutchins, Edgar P., Brookville, Pa. Spring-tire. No. 1,142,327; June 8; Gaz. vol. 215; p. 472.
- Hutchins, Elmer N., et al., executors. (See Orcutt, Edward L.)
- Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom for weaving tufted fabric. No. 1,142,170; June 8; Gaz. vol. 215; p. 418.
- Hutchins, George F., and L. B. Jenckes, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Pick-motion for looms. No. 1,164,094; Dec. 14; Gaz. vol. 221; p. 521.

Alphabetical list of patentees—Continued.

- Hutchinson, George, Chicago, Ill. Wire fence. No. 1,141,394; June 1; Gaz. vol. 215; p. 110.
- Hutchinson, George, Wellington, New Zealand. Weighing apparatus. No. 1,147,400; July 20; Gaz. vol. 216; p. 890.
- Hutchinson, George, Chicago, Ill., assignor to Donald-Hutchinson Patents Ltd., Masterton, New Zealand. Metal post. No. 1,144,476; June 29; Gaz. vol. 215; p. 1314.
- Hutchinson, George, assignor to Donald-Hutchinson Patents Limited, Masterton, New Zealand. Anchorage for fencing-posts and the like. No. 1,145,312; July 6; Gaz. vol. 216; p. 117.
- Hutchinson, Paul, *et al.* (See Wells and Saxton, assignors.)
- Hutchinson, Percy, Putney, London, England. Carburetor. No. 1,136,675; Apr. 20; Gaz. vol. 213; p. 1000.
- Hutchinson, Thomas. (See Hornby Oscar, assignor.)
- Hutchinson, Uriah, New York, N. Y. Dish-washing machine. No. 1,131,137; Mar. 9; Gaz. vol. 212; p. 483.
- Hutchinson, William S., Oyster Bay, N. Y. Drum-brake. No. 1,152,511; Sept. 7; Gaz. vol. 218; p. 47.
- Hutchinson, William S., Montreal, Quebec, Canada. Storage-battery grid. No. 1,159,035; Nov. 2; Gaz. vol. 220; p. 215.
- Hutchison, Benjamin O. (See Talbutt and Hutchison.)
- Hutchison, Harry R., and E. U. Bay, Cofax, Ill. Combination letter and package mail-box. No. 1,145,419; July 6; Gaz. vol. 216; p. 155.
- Hutchison, Maurice F., Herndon, Va. Valve. No. 1,132,095; Mar. 16; Gaz. vol. 212; p. 856.
- Hutchison, Miller R., Bay Shore, N. Y. Speed-regulator for motor-vehicles. No. 1,142,099; June 8; Gaz. vol. 215; p. 394.
- Hutchison, Miller R., Deal Beach, N. J., assignor, by mesne assignments, to Lovell-McConnell Manufacturing Company. Diaphragm-horn. No. 1,124,137; Jan. 5; Gaz. vol. 210; p. 319.
- Hutchison, Miller R., assignor to Edison Storage Battery Company, West Orange, N. J. Safety device. No. 1,130,977; Mar. 9; Gaz. vol. 212; p. 429.
- Hutchison, Miller R., West Orange, N. J., assignor to Lovell-McConnell Manufacturing Company. Diaphragm-horn. No. 1,131,635; Mar. 9; Gaz. vol. 212; p. 657.
- Hutchison, Miller R., West Orange, N. J., assignor to Lovell-McConnell Manufacturing Company. Mechanical horn. No. 1,131,636; Mar. 9; Gaz. vol. 212; p. 657.
- Hutchison, Miller R., West Orange, N. J., assignor to Lovell-McConnell Manufacturing Company. Diaphragm-horn. No. 1,143,686; Aug. 3; Gaz. vol. 217; p. 73.
- Hutchison, Miller R., West Orange, N. J., assignor to Lovell-McConnell Manufacturing Company. Diaphragm-horn. No. 1,148,687; Aug. 3; Gaz. vol. 217; p. 73.
- Hutchison, Miller R., West Orange, N. J., assignor to Lovell-McConnell Manufacturing Company. Cam-operated horn. (Reissue.) No. 14,037; Dec. 28; Gaz. vol. 221; p. 1418.
- Hutchison, Miller R., Summit, N. J., assignor to Lovell-McConnell Manufacturing Company. Gearing. No. 1,131,703; Mar. 16; Gaz. vol. 212; p. 714.
- Hutchison, Miller R., Summit, N. J., assignor to Lovell-McConnell Manufacturing Company. Diaphragm-horn. No. 1,145,839; July 6; Gaz. vol. 216; p. 303.
- Hutchison, Miller R., Summit, N. J., assignor to Lovell-McConnell Manufacturing Company. Mechanically-actuated diaphragm. No. 1,147,866; July 27; Gaz. vol. 216; p. 1078.
- Hutchison, Miller R., Summit, N. J., assignor to Lovell-McConnell Manufacturing Company. Mechanical horn and diaphragm therefor. No. 1,148,231; July 27; Gaz. vol. 216; p. 1207.
- Hutchison, Miller R., Summit, N. J., assignor to Lovell-McConnell Manufacturing Company. Signal device and projector therefor. No. 1,149,583; Aug. 10; Gaz. vol. 217; p. 493.
- Hutchison, Miller R., Summit, N. J., assignor to Lovell-McConnell Manufacturing Company. Mechanically-actuated diaphragm-horn. No. 1,160,900; Nov. 16; Gaz. vol. 220; p. 963.
- Hutchison, Miller R., New York, N. Y., assignor to Lovell-McConnell Manufacturing Company. Mechanically-actuated diaphragm-horn. No. 1,160,899; Nov. 16; Gaz. vol. 220; p. 962.
- Hutchison, Miller R., New York, N. Y., assignor to Lovell-McConnell Manufacturing Company. Horn or signaling device. No. 1,160,901; Nov. 16; Gaz. vol. 220; p. 963.
- Hutchison, Miller R., and C. W. Norton, assignors to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 1,165,101; Dec. 21; Gaz. vol. 221; p. 913.
- Hutchison, Orville T., Wagon Mound, N. Mex. Heel. No. 1,158,053; Oct. 26; Gaz. vol. 219; p. 1071.
- Hutchison, Richard, Brookline, Mass. Puzzle. No. 1,148,489; July 27; Gaz. vol. 216; p. 1299.
- Hutchison Scott Company. (See Scott, James H., assignor.)
- Huth, Gustav, assignor to H. Aron Elektrizitätszähler-fabrik G. m. b. H., Charlottenburg, Germany. Check-till. No. 1,131,381; Mar. 9; Gaz. vol. 212; p. 567.
- Huth, Nathaniel, Brookville, Pa. Baker's double tin stick lady-lock pan. No. 1,139,037; May 11; Gaz. vol. 214; p. 502.
- Huth, Walter H., Chicago, Ill. Toy war-boat. No. 1,145,420; July 6; Gaz. vol. 216; p. 155.
- Huther Bros. Saw Manufacturing Company. (See Huther, Warren B., assignor.)
- Huther, Warren B., assignor to Huther Bros. Saw Manufacturing Company, Rochester, N. Y. Metal-cutting saw. No. 1,125,102; Jan. 19; Gaz. vol. 210; p. 747.
- Hutson, Del D. (See Starkweather and Hutson.)
- Hutter, Charles, Worcester, Mass., assignor to General Electric Company. Time-controlled shutter-releasing means. No. 1,161,683; Nov. 23; Gaz. vol. 220; p. 1285.
- Huttig, Fred. (See Treiber, Theodore R., assignor.)
- Huttig, Fred. (See Treiber and Johnson, assignors.)
- Hüttner, Fritz, Berlin, Germany, assignor to General Electric Company. Regulation of boiler feed-pumps. No. 1,147,401; July 20; Gaz. vol. 216; p. 890.
- Hutton, Amos, assignor to Massachusetts Saw Works, Springfield, Mass. Lift for hacksaw-blades. No. 1,150,004; Aug. 10; Gaz. vol. 217; p. 647.
- Hutton, Henry T., Donaghadee, Ireland. Exhaust-silencer for use in connection with internal-combustion engines. No. 1,162,064; Nov. 30; Gaz. vol. 220; p. 1463.
- Hutton, Nathan B., Barnesville, Ohio. Safety clothes-wringer. No. 1,139,122; May 11; Gaz. vol. 214; p. 532.
- Hutton, Philip W., Chicago, and E. F. Worst, Lockport, Ill. Drawing-board support. No. 1,163,755; Dec. 14; Gaz. vol. 221; p. 404.
- Hutton, Samuel T., assignor to Scheidel-Western X-Ray Coil Company, Chicago, Ill. X-ray apparatus. No. 1,138,113; May 4; Gaz. vol. 214; p. 138.
- Hutton, Stanley P. (See Naylor and Hutton.)
- Hutzler, Rudolf, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Treating insoluble indigoid dyes. No. 1,133,031; Mar. 23; Gaz. vol. 212; p. 1250.
- Huw, Moy Toy, New York, N. Y. Computing-scale. No. 1,129,095; Feb. 23; Gaz. vol. 211; p. 975.
- Huxley, Henry M., Evanston, assignor to Economy Fuse & Manufacturing Company, Chicago, Ill. Renewable cartridge-fuse. No. 1,129,395; Feb. 23; Gaz. vol. 211; p. 1081.
- Huxley, James W. (See Curtis and Huxley.)
- Huycke, John P. (See Guy and Huycke.)
- Huyett, Guy L., Minneapolis, Kans. Ripping device. No. 1,129,681; Feb. 23; Gaz. vol. 211; p. 1179.
- Hvid, Rasmus M., Chicago, Ill. Hydrocarbon-engine governor. No. 1,165,674; Dec. 28; Gaz. vol. 221; p. 1153.
- Hvid, Rasmus M., assignor to R. M. Hvid Company, Battle Creek, Mich. Oil-injection device for oil-engines. No. 1,134,857; Apr. 6; Gaz. vol. 213; p. 278.
- Hvid, Rasmus M., assignor to R. M. Hvid Company, Battle Creek, Mich. Means for delivering oil to oil-burning engines. No. 1,134,858; Apr. 6; Gaz. vol. 213; p. 279.
- Hyatt, Charles E. (See Hyatt, John W. and C. E.)
- Hyatt, Frank S., Brooklyn, N. Y. Top for cans and other receptacles. No. 1,152,817; Sept. 7; Gaz. vol. 218; p. 161.
- Hyatt, John W., East Orange, N. J. Bowling-ball with inwardly-opening door. No. 1,156,143; Oct. 12; Gaz. vol. 219; p. 311.
- Hyatt, John W. and C. E., East Orange, N. J. Game-ball with composition coating. No. 1,156,144; Oct. 12; Gaz. vol. 219; p. 311.
- Hyatt Roller Bearing Company. (See Lockwood, Charles S., assignor.)
- Hyatt Roller Bearing Company. (See Knoth, Conrad, assignor.)
- Hyatt, Thomas B., Connellsville, Pa. Reserve-supply valve. No. 1,132,350; Mar. 16; Gaz. vol. 212; p. 950.
- Hybinette, Noak V., Christiania, Norway. Electrolytic deposition of metals from solutions. No. 1,123,299; Jan. 5; Gaz. vol. 210; p. 33.
- Hybinette, Noak V., Christiania, Norway. Electrolytic process for the extraction of copper. No. 1,136,424; Apr. 20; Gaz. vol. 213; p. 912.
- Hybinette, Noak V., Christiansand, Norway. Extracting copper from a sulfate solution. No. 1,140,682; May 25; Gaz. vol. 214; p. 1148.
- Hybinette, Noak V., Christiansand, Norway, assignor, by mesne assignments, to National Trust Company Limited, Toronto, Ontario, Canada. Separating copper from nickel and matte and other products. No. 1,128,313; Feb. 16; Gaz. vol. 211; p. 669.
- Hybinette, Noak V., Christiania, Norway, assignor to Pacific Securities Company Limited, Toronto, Ontario, Canada. Producing copper-nickel anodes. No. 1,128,314; Feb. 16; Gaz. vol. 211; p. 669.
- Hybinette, Noak V., Christiania, Norway, assignor to Pacific Securities Company Limited, Toronto, Ontario, Canada. Circulating solution for electrolysis. No. 1,128,315; Feb. 16; Gaz. vol. 211; p. 669.
- Hybinette, Noak V., Christiania, Norway, assignor to Pacific Securities Company Limited, Toronto, Ontario, Canada. Anode for electrolysis. No. 1,128,316; Feb. 16; Gaz. vol. 211; p. 669.
- Hyde, Elbert L., Pittsburgh, assignor to The Spirella Company, Meadville, Pa. Garment-stay. No. 1,142,565; June 8; Gaz. vol. 215; p. 557.
- Hyde, Ellen E. H., *et al.*, executors. (See Hyde, John E. H.)

- Hyde, Elwin R., Bridgeport, Conn. Grinding-wheel. No. 1,133,475; Mar. 30; Gaz. vol. 212; p. 1441.
- Hyde, Elwin R., Bridgeport, and T. D. Adams, Westport, Conn.; said Adams assignor to said Hyde. Grinding-machine. No. 1,133,476; Mar. 30; Gaz. vol. 212; p. 1441.
- Hyde, Francis K., New York, N. Y. Siphon attachment. No. 1,137,488; Apr. 27; Gaz. vol. 213; p. 1330.
- Hyde, Frederick, assignor to M. L. Bloch, Philadelphia, Pa. Go-cart. No. 1,157,224; Oct. 19; Gaz. vol. 219; p. 719.
- Hyde, James M., Berkeley, Cal. Zinc-smelting furnace. No. 1,144,036; June 22; Gaz. vol. 215; p. 1132.
- Hyde, James M., Berkeley, Cal. Smelting zinc and other ores. No. 1,144,037; June 22; Gaz. vol. 215; p. 1133.
- Hyde, John E. H., deceased, New York, N. Y.; W. H. and E. E. H. Hyde, executors. Waterproofed line used for fishing. No. 1,165,179; Dec. 21; Gaz. vol. 221; p. 941.
- Hyde, John H., Tacoma, Wash. Ship-brake. No. 1,164,817; Dec. 21; Gaz. vol. 221; p. 814.
- Hyde, John R., Youngstown, Ohio. Bolt and nut lock. No. 1,166,049; Dec. 28; Gaz. vol. 221; p. 1282.
- Hyde, Russell M., Pittsfield, Mass., assignor to General Electric Company. Coll construction. No. 1,159,770; Nov. 9; Gaz. vol. 220; p. 510.
- Hyde, Thomas H., New Kensington, Pa. Blacksmith's tongs. No. 1,129,294; Feb. 23; Gaz. vol. 211; p. 1045.
- Hyde, Walter S., Prineville, Oreg. Thumb-guard for razors. No. 1,137,976; May 4; Gaz. vol. 214; p. 89.
- Hyde, William H., et al., executors. (See Hyde, John E. H.)
- Hydeman, Ernest N., Lawrence, Mass. Bath-tub and mat therefor. No. 1,131,932; Mar. 16; Gaz. vol. 212; p. 798.
- Hydraulic Press Brick Company. (See Ireland, Harley R., assignor.)
- Hydraulic Press Brick Company. (See Miles, Frank W., assignor.)
- Hydro Carbon Gas Company. (See Wade, Henry C., assignor.)
- Hydro-Kinetic Transmission Company, The. (See Rich, Charles C., assignor.)
- Hydro Vacuum Smelting Co. (See Heslewood, William R., assignor.)
- Hydrocarbon Burner & Manufacturing Company. (See Meltzer, Edward, assignor.)
- Hydrocarbon Converter Company. (See Tait, Godfrey M. S., assignor.)
- Hydrogenation Company, The. (See Kayser, Edwin C., assignor.)
- Hye, Thomas, W. B. Campbell, and T. A. Bateman, Spokane, Wash. Rotary pump. No. 1,140,983; May 25; Gaz. vol. 214; p. 1255.
- Hygienic Products Company, The. (See Schlabbach, Charles H., assignor.)
- Hyland, Alfred E., Barre, Vt. Coupling for pipe, hose, shafts, &c. No. 1,162,362; Nov. 30; Gaz. vol. 220; p. 1567.
- Hyland, George O., Childress, Tex. Door-opener. No. 1,142,171; June 8; Gaz. vol. 215; p. 418.
- Hyle, Jacob A., Harrisburg, Pa., assignor of one-third to T. F. Von Dorn and one-third to J. A. Twitchell, New York, N. Y. Railway-tie. No. 1,145,141; July 6; Gaz. vol. 216; p. 58.
- Hyler, George, and B. Herbison, Lansing, Mich. Electric railway-switch. No. 1,129,097; Feb. 23; Gaz. vol. 211; p. 976.
- Hylton, Charles D. (See Robinson and Hylton.)
- Hymans, Frederick, Shaler township, Allegheny county, Pa., assignor to Otis Elevator Company, Jersey City, N. J. Controlling device for motors. No. 1,141,548; June 1; Gaz. vol. 215; p. 164.
- Hynds, John G., assignor of nine-tenths to R. Begg, New York, N. Y. Abdominal supporter. No. 1,126,765; Feb. 2; Gaz. vol. 211; p. 36.
- Hynds, Virginia. (See Eskett, Henry, assignor.)
- Hynes, Lee P., assignor to Railway Utility Company, Chicago, Ill. Automatic electric-heating system for railway-cars and the like. No. 1,146,879; July 20; Gaz. vol. 216; p. 706.
- Hynes, Lee P., assignor to Railway Utility Company, Chicago, Ill. Electric-heating system. No. 1,150,939; Aug. 24; Gaz. vol. 217; p. 1092.
- Hyslin, Evan, Tacoma, Wash. Fruit-holder. No. 1,129,492; Feb. 23; Gaz. vol. 211; p. 1116.
- I. B. Kleintert Rubber Company, The. (See Guinzburg, Victor, assignor.)
- I. E. Palmer Co. (See Palmer, Isaac E., assignor.)
- I./s. H. Hein & Sonners et al. (See Hein, Hans H., assignor.)
- Iasigi, Oscar A., Brookline, Mass. Package-tie. No. 1,155,239; Sept. 28; Gaz. vol. 218; p. 1102.
- Ibarra, José, Habana, Cuba. Machine for cutting and pasting stamps to cigarette-boxes or any other packages. No. 1,130,517; Mar. 2; Gaz. vol. 212; p. 237.
- Ibarra, José, Habana, Cuba. Stamp-supporter for cigarette-box-stamp-applying machines. No. 1,137,625; Apr. 27; Gaz. vol. 213; p. 1375.
- Ibarra, José, Habana, Cuba. Cigarette-box-grouping machine. No. 1,143,400; June 15; Gaz. vol. 215; p. 889.
- Iceless Machine Company, The. (See Gase, George A., assignor.)
- Iceless Machine Company, The. (See Southworth, Harrison H., assignor.)
- Iceless Machine Company, The. (See Southworth and Armstrong, assignors.)
- Iceless Machine Company, The. (See Southworth and Gase, assignors.)
- Iceless Machine Company, The. (See Southworth and Wolf, assignors.)
- Icke, Henry A., Victoria, British Columbia, Canada. Draw-bridge. No. 1,140,984; May 25; Gaz. vol. 214; p. 1255.
- Ickenroth, John, St. Louis county, Mo. Measuring and gaging implement. No. 1,128,143; Feb. 9; Gaz. vol. 211; p. 559.
- Iddings, Daniel Y. (See Malloy, Mary A., assignor.)
- Iddings, Roscoe C., Dayton, Ohio. Holder for fire-extinguishers and the like. No. 1,129,198; Feb. 23; Gaz. vol. 211; p. 1011.
- Ide, Harry L., Springfield, Ill. Animal-operated liquid-distributor. No. 1,126,015; Jan. 26; Gaz. vol. 210; p. 1105.
- Ide, Harry L., Springfield, Ill. Animal-operated liquid-distributor. No. 1,151,524; Aug. 24; Gaz. vol. 217; p. 1290.
- Ide, Harry L., Springfield, Ill. Animal-employed liquid-distributor. No. 1,162,487; Nov. 30; Gaz. vol. 220; p. 1610.
- Ide, Roy W., Springfield, Ill. Internal-combustion engine. No. 1,163,542; Dec. 7; Gaz. vol. 221; p. 281.
- Ide, Tsukasa, Oakland, Cal. Automatic liquid measure and dispenser. No. 1,165,675; Dec. 28; Gaz. vol. 221; p. 1153.
- Ideal Fire Detector Company. (See Kayser, Charles H., assignor.)
- Ideal Fire Detector Company. (See Kayser and Hampton, assignors.)
- Ideal Machinery Company. (See Walsh, John L., assignor.)
- Ideal Stencil Machine Company. (See Remnsneider, George, assignor.)
- Ideal Roller Company. (See Wolever, Franklin H., assignor.)
- Ideal Wrapping Machine Company. (See Hopkins and Fellows, assignors.)
- Iden, Henry. (See Hartmann, Louis, assignor.)
- Iden, Henry, deceased, (H. Amrhein, executor) and J. J. Suckert, New York, N. Y., assignors to Van Gieckland Co., Inc. Acetylene-gas lamp. No. 1,149,522; Aug. 10; Gaz. vol. 217; p. 471.
- Ielfeld, Fred C., Silver Creek, N. Y. Mail-marking machine. No. 1,136,960; Apr. 27; Gaz. vol. 213; p. 1138.
- Iffert, Jean A. G., Frankfurt-on-the-Main, Germany, assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,147,172; July 20; Gaz. vol. 216; p. 809.
- Igoe, Peter, Jr. (See Maas, William F., assignor.)
- Igou, Dale C. (See Igou, Dennis T. and D. C.)
- Igou, Dennis T. and D. C., assignors, by mesne assignments, to The Igou Manufacturing Company, Springfield, Ohio. Wrapping-machine. No. 1,147,402; July 20; Gaz. vol. 216; p. 890.
- Igou Manufacturing Company, The. (See Igou, Dennis T. and D. C., assignors.)
- Ihde, Otto, Topeka, Kans. Fire-escape. No. 1,153,622; Sept. 14; Gaz. vol. 218; p. 484.
- Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Ammunition-hoist. No. 1,145,899; July 13; Gaz. vol. 216; p. 342.
- Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electrical controlling apparatus. No. 1,156,481; Oct. 12; Gaz. vol. 219; p. 428.
- Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator-door lock. No. 1,159,586; Nov. 9; Gaz. vol. 220; p. 443.
- Ihlder, John D., New York, N. Y., and W. D. Lutz, Allendale borough, assignors to Otis Elevator Company, Jersey City, N. J. Ammunition-hoist control. No. 1,148,232; July 27; Gaz. vol. 216; p. 1208.
- Ihrig, Orland L., Sunnyvale, Cal., assignor to M. Rumely Company, Laporte, Ind. Float feed control. No. 1,147,800; July 27; Gaz. vol. 216; p. 1054.
- Iijima, Junsuke, Tokyo, Japan. Briquetting-machine. No. 1,125,103; Jan. 19; Gaz. vol. 210; p. 747.
- Ike, Richard. (See Noppe and Ike.)
- Iler, Franklin M., Denver, Colo. Crucible-furnace. No. 1,129,983; Mar. 2; Gaz. vol. 212; p. 50.
- Iler, George A., Kirkwood, and T. M. Nalon, Atlanta, Ga. Internal-combustion engine. No. 1,153,432; Sept. 14; Gaz. vol. 218; p. 417.
- Ilfrev, W. O. (See Harpst, Frederick E., assignor.)
- Ilg, Robert A., Chicago, Ill. Rotary blower. No. 1,163,543; Dec. 7; Gaz. vol. 221; p. 282.
- Ill, Henry, Newark, N. J., assignor to Universal Caster & Foundry Company, New York, N. Y. Caster structure for tubular legs. No. 1,125,104; Jan. 19; Gaz. vol. 210; p. 748.
- Illian, Jacob J., Milwaukee, Wis. Bottle-closure. No. 1,162,781; Dec. 7; Gaz. vol. 221; p. 18.

Alphabetical list of patentees—Continued.

- Illig, Hans, and B. Schwerin, assignors to Gesellschaft für Elektro-Osmose m. b. H., Frankfort-on-the-Main, Germany. Apparatus for electro-osmotic processes. No. 1,133,967; Mar. 30; Gaz. vol. 212; p. 1614.
- Illing, Leo H., Chicago, Ill. Cleaning and polishing machine. No. 1,160,613; Nov. 16; Gaz. vol. 220; p. 861.
- Illingworth, John W., deceased, Wilkes-Barre, Pa.; H. E. Hartzell, administratrix. Preserving and improving lumber. No. 1,158,404; Oct. 26; Gaz. vol. 219; p. 1196.
- Illinois Electric Porcelain Company. (See Ketrion, Charles W., assignor.)
- Illinois Malleable Iron Company. (See Bullock, Henry E., assignor.)
- Illinois Thresher Company. (See Rumely and Robby, assignors.)
- Illinois Watch Case Co. (See Hathaway, Thomas F., assignor.)
- Illoway, Nettle, New York, N. Y. Hair-curler. No. 1,163,343; Dec. 7; Gaz. vol. 221; p. 214.
- Ilsemann, Friedrich, Horn, near Bremen, assignor to Metall-Industrie und Handels-Gesellschaft mit beschränkter Haftung, Bremen, Germany. Wheel for motor-cars. No. 1,126,474; Jan. 26; Gaz. vol. 210; p. 1271.
- Ilsemann, Friedrich, Horn, near Bremen, assignor to Metall-Industrie und Handels-Gesellschaft mit beschränkter Haftung, Bremen, Germany. Device for lifting vehicles, particularly motor-cars. No. 1,150,599; Aug. 17; Gaz. vol. 217; p. 917.
- Ilten, George H. (See Leonard and Ilten.)
- Imamura, Minematsu, San Francisco, Cal. Automatic vehicle-brake. No. 1,123,538; Jan. 5; Gaz. vol. 210; p. 117.
- Iman, Orla H. (See Watson and Iman.)
- Iman, Orla H., assignor to Voightmann & Company, Chicago, Ill. Pulley frame and mounting. No. 1,153,923; Sept. 21; Gaz. vol. 218; p. 624.
- Imbach, August, Arlen-Rielasingen, Baden, Germany. Weft-severing device for automatic looms. No. 1,157,397; Oct. 19; Gaz. vol. 219; p. 781.
- Imes, Martin, Leavenworth, Kans. Railway-tie. No. 1,133,727; Mar. 30; Gaz. vol. 212; p. 1534.
- Imhof, Joseph A., assignor to Kaufmann & Strauss Co., New York, N. Y. Display-stand. No. 1,157,542; Oct. 19; Gaz. vol. 219; p. 831.
- Imhof, Peter, and W. J. Kelly, Denver, Colo. Lawn-edger. No. 1,139,978; May 18; Gaz. vol. 214; p. 868.
- Inlay, William L., New York, N. Y. Electric-current economizer. No. 1,126,016; Jan. 26; Gaz. vol. 210; p. 1106.
- Imperial Brass Manufacturing Company, The. (See Dobrick, August C., assignor.)
- Imperial Brass Manufacturing Company, The. (See Pettis, John G.)
- Imperial Brass Manufacturing Company, The. (See Rocksted, Martin, assignor.)
- Imperial Brass Manufacturing Company, The. (See Schoff, Young, and Dobrick, assignors.)
- Imperial Car Cleaner Company. (See Service, William F., assignor.)
- Imperial Manufacturing Company. (See Moore, George W., assignor.)
- Imperial Novelty Co. of Newark, N. J. (See Wirth, Charles, assignor.)
- Imperial Tobacco Company (of Great Britain and Ireland) Limited. (See Fazackerley, William, assignor.)
- Imperial Typewriter Company. (See Pilblad and Tomlinson, assignors.)
- Impervious Products Company. (See Abraham and Haines, assignors.)
- Import Sales Company. (See Rosenfeld, Francis M., assignor.)
- Improved Construction Company Limited, The. (See Jagger, Peter B., assignor.)
- Improved Equipment Company, The. (See Laird and Shields, assignors.)
- Improved Paper Machinery Company, The. (See Haug, Anton J., assignor.)
- Improved Paper Machinery Company. (See Parker, Howard, assignor.)
- Imschweller, John, Inglewood, Cal. Drinking-fountain. No. 1,160,511; Nov. 16; Gaz. vol. 220; p. 823.
- Imus, James H., Dayton, Ohio. Disk harrow. No. 1,156,843; Oct. 12; Gaz. vol. 219; p. 554.
- Inbusch, Arthur H. (See Klingensfeld and Inbusch.)
- Incerti, Roberto, Pinerolo, Italy. Frame for cycles and the like. No. 1,148,170; July 27; Gaz. vol. 216; p. 1188.
- Indahl, Mauritz C. (See Bancroft and Indahl.)
- Indahl, Mauritz C., Philadelphia, Pa. Internal-combustion engine. No. 1,141,711; June 1; Gaz. vol. 215; p. 221.
- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Galley mechanism for type-composing machines. No. 1,149,197; Aug. 10; Gaz. vol. 217; p. 354.
- Indahl, Mauritz C., and A. L. Knight, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Galley mechanism for type-composing machines. No. 1,149,193; Aug. 10; Gaz. vol. 217; p. 355.
- Independent Button Fastener Machine Company. (See Snierson, Samuel L., assignor.)
- Independent Lamp and Wire Company. (See Liebmann and Megrath, assignors.)
- Index Visible. (See Fisher, Irving, assignor.)
- Indiana Manufacturing Company, The. (See Sharpe, Joseph K., Jr., assignor.)
- Indianapolis Brush & Broom Manufacturing Company. (See Lemaux, George, assignor.)
- Indispensable Mfg. Co. (See Johnson, Carl V., assignor.)
- Individual Drinking Cup Company. (See Herwis, Maurice P., assignor.)
- Industrial Chemical Company. (See Stratham, Noel, assignor.)
- Industrial Instrument Company, The. (See Bristol, Edgar H., assignor.)
- Industrial Service Company. (See Jaeger, Otto, assignor.)
- Infield, George W. (See Cameron, Joseph A., assignor.)
- Infield, William J., San Francisco, Cal. Rail and railway-crossing. No. 1,145,142; July 6; Gaz. vol. 216; p. 59.
- Ingalls, Lloyd O. (See Halvorson and Ingalls.)
- Ingalls, Lloyd O., Lynn, Mass., assignor to General Electric Company. Headlight. No. 1,160,718; Nov. 16; Gaz. vol. 220; p. 900.
- Ingalls, William A., Arkansas City, Kans. Resilient wheel. No. 1,144,546; June 29; Gaz. vol. 215; p. 1337.
- Ingalls, Willis A., Cleveland, Ohio. Knitting-machine. No. 1,144,846; June 29; Gaz. vol. 215; p. 1441.
- Ingalls, Willis A., Cleveland, Ohio. Cam-adjusting device for circular-knitting machines. No. 1,147,730; July 27; Gaz. vol. 216; p. 1031.
- Ingalls, James, Muskegon, Mich. Extension-table slide. No. 1,130,167; Mar. 2; Gaz. vol. 212; p. 113.
- Ingeman, Martin, and L. Martenson, Brooklyn, N. Y. Marine table. No. 1,124,906; Jan. 12; Gaz. vol. 210; p. 643.
- Ingersoll, Adelbert J., Niles Center, Ill. Sleigh attachment for perambulators. No. 1,153,924; Sept. 21; Gaz. vol. 218; p. 624.
- Ingersoll, Doctor A., Delavan, Ill. Gate. No. 1,151,687; Aug. 31; Gaz. vol. 217; p. 1392.
- Ingersoll Electric Vaporizer Co. (See Ingersoll, Homer H., assignor.)
- Ingersoll, Frederick. (See McCormack, Thomas, assignor.)
- Ingersoll, Homer H., assignor to Ingersoll Electric Vaporizer Co., Chicago, Ill. Electric heater. No. 1,162,363; Nov. 30; Gaz. vol. 220; p. 1568.
- Ingersoll Milling Machine Co., The. (See Feldmann, Ernst, assignor.)
- Ingersoll Milling Machine Company, The. (See Johnson, John R., assignor.)
- Ingersoll Milling Machine Company, The. (See Sinderson, John B., assignor.)
- Ingersoll-Rand Company. (See Ambrose, Robert L., assignor.)
- Ingersoll-Rand Company. (See Banner, Otto, assignor.)
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- Ingersoll-Rand Company. (See Castle and Rogers, assignors.)
- Ingersoll-Rand Company. (See Clement, William, assignor.)
- Ingersoll-Rand Company. (See Dawley, Clarence A., assignor.)
- Ingersoll-Rand Company. (See Donaldson, William M., assignor.)
- Ingersoll-Rand Company. (See Gibson, Arthur H., assignor.)
- Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
- Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
- Ingersoll-Rand Company. (See Lucker and Carpenter, assignors.)
- Ingersoll-Rand Company. (See Peck, Caid H., assignor.)
- Ingersoll-Rand Company. (See Taylor, Albert H., assignor.)
- Ingersoll-Rand Company. (See Treiber and Bulkley, assignors.)
- Ingersoll, Robert L., and T. J. Douros, Boone, Iowa. Blow-off cock for boilers. No. 1,146,797; July 20; Gaz. vol. 216; p. 678.
- Ingham, Charles R., Hobokus township, Bergen county, N. J. Weather-strip. No. 1,166,413; Dec. 28; Gaz. vol. 221; p. 1416.
- Ingham, Samuel D., Philadelphia, Pa. Expansible chamber. No. 1,151,595; Aug. 31; Gaz. vol. 217; p. 1362.
- Ingham, Thomas, Liverpool, England. Manufacture of products from seaweed. No. 1,162,926; Dec. 7; Gaz. vol. 221; p. 67.
- Ingle, Arthur H., and A. J. Gosselin, Rochester, N. Y., assignors, by mesne assignments, to Landis Tool Company, Waynesboro, Pa. Multiple-use machine of boring-mill type. No. 1,123,881; Jan. 5; Gaz. vol. 210; p. 233.
- Ingle, William, and W. Eva, Edinburgh, Scotland, assignors to Mergenthaler Linotype Company. Type-bar-making machine. No. 1,135,378; Apr. 13; Gaz. vol. 213; p. 501.
- Ingoldsby, Frank S., Pine Lake, Mich. Automobile-tire. No. 1,149,833; Aug. 10; Gaz. vol. 217; p. 585.
- Ingraham, Frederick, and D. Lynch, Joliet, Ill., assignors to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Continuous annealing-furnace. No. 1,147,731; July 27; Gaz. vol. 216; p. 1032.

Alphabetical list of patentees—Continued.

- Ingram, James H., Charlotte, N. C. Violin or other stringed-instrument body. No. 1,149,059; Aug. 3; Gaz. vol. 217; p. 203.
- Ingram, John C., assignor of one-half to W. H. Loper, Cameron, W. Va. Wrench. No. 1,149,060; Aug. 3; Gaz. vol. 217; p. 203.
- Ingram, Oscar L., Walla Walla, Wash. Power-transmission mechanism. No. 1,165,974; Dec. 28; Gaz. vol. 221; p. 1256.
- Ingram, William T. (See Barnard, John W., assignor.)
- Ink, Harry E., assignor to Rice-Stix Dry Goods Company, St. Louis, Mo. Merchandise-holder. No. 1,159,943; Nov. 9; Gaz. vol. 220; p. 574.
- Inke, Frederick, San Francisco, Cal. Loss-proof pocket. No. 1,123,539; Jan. 5; Gaz. vol. 210; p. 118.
- Inland Knitting Works. (See Boucher, Peter, assignor.)
- Inland Machine Works. (See Flammang, John, assignor.)
- Inman, George A., Providence, R. I. Diaphragm-actuating means. No. 1,159,387; Nov. 9; Gaz. vol. 220; p. 372.
- Inman, Harry A., assignor to Inman Manufacturing Company, Incorporated, Amsterdam, N. Y. Box-making machine. No. 1,142,575; June 8; Gaz. vol. 215; p. 560.
- Inman, Horace, and F. M. Joslin, assignors to Inman Manufacturing Company, Incorporated, Amsterdam, N. Y. Adjustable tray-making machine. No. 1,124,619; Jan. 12; Gaz. vol. 210; p. 541.
- Inman, John P., and R. E. Estes, Midland, Tex. Spark-plug. No. 1,136,961; Apr. 27; Gaz. vol. 213; p. 1138.
- Inman Manufacturing Company. (See Inman, Harry A., assignor.)
- Inman Manufacturing Company. (See Inman and Joslin, assignors.)
- Inman Manufacturing Company. (See Wood, Ralph A., assignor.)
- Innes, Alexander J., Sutherland, Iowa. Moving stairway or conveyer. No. 1,148,901; Aug. 3; Gaz. vol. 217; p. 147.
- Innes, Roy, Madison, S. Dak. Mouse-trap. No. 1,149,584; Aug. 10; Gaz. vol. 217; p. 493.
- Inonye, Eno K., Seattle, Wash. Door-latch for vehicles. No. 1,161,772; Nov. 23; Gaz. vol. 220; p. 1314.
- Inrig, Gavan and L., London, England. Dynamo-electric generator. No. 1,149,998; Aug. 10; Gaz. vol. 217; p. 645.
- Inrig, Gavan and L., London, England, assignors to R. L. Hubler and G. S. Greene, Dayton, Ohio. Dynamo-electric generator. No. 1,128,270; Feb. 9; Gaz. vol. 211; p. 603.
- Inrig, Leon. (See Inrig, Gavan and L.)
- Inslaw, George R., Uddingston, Scotland. Rotary internal-combustion engine. No. 1,142,576; June 8; Gaz. vol. 215; p. 561.
- Insley Manufacturing Company. (See Insley, William H., assignor.)
- Insley Manufacturing Company. (See Robinson, Arthur P., assignor.)
- Insley, William H., assignor to Insley Manufacturing Company, Indianapolis, Ind. Line-gate for concrete-chutes. No. 1,125,105; Jan. 19; Gaz. vol. 210; p. 748.
- Intercontinental Fiber & Paper Company, The. (See Roberts, Robert R., assignor.)
- Interior Metal Manufacturing Company. (See Swanson, Charles J., assignor.)
- Interlocking Safety Block Machine Company. (See Sweet, Benjamin W., assignor.)
- International Agricultural Corporation. (See Peacock, Samuel, assignor.)
- International Air-Brake Company. (See Hatfield, Hiram A., assignor.)
- International Automatic Telephone Company, The. (See Bruce, William M., Jr., assignor.)
- International Barrel Company. (See Robinson, Edward W., assignor.)
- International Blank Book Company. (See Thomas, George W., assignor.)
- International Canning Machinery Co. (See Vaudreuil, Edward J., assignor.)
- International Cap and Sealing Machine Co. (See Levey, Thomas J., assignor.)
- International Cigar Machinery Company. (See Tyberg, Oluf, assignor.)
- International Color & Chemical Company. (See Ramage, Alexander S., assignor.)
- International Comfort Chair Co. (See Myers, Alexander, assignor.)
- International Cork Company. (See Alberti and Miano, assignors.)
- International Cork Company. (See Bogdanffy, Alexander, assignor.)
- International Cork Company, The. (See Marsa, Melchor, assignor.)
- International Corset Company. (See Gardner, Marshall B., assignor.)
- International Electric Company. (See McGarvey, Edward, assignor.)
- International Harrow Cultivator Company. (See Farmer, Matthew S., assignor.)
- International Harvester Company. (See Grieves, Albert, assignor.)
- International Harvester Company. (See Johnston and Longenecker, assignors.)
- International Harvester Company. (See Osterholm, William C., assignor.)
- International Harvester Company of New Jersey. (See Benjamin, Bert R., assignor.)
- International Harvester Company of New Jersey. (See Britton, James A., assignor.)
- International Harvester Company of New Jersey. (See Bucknam, Fredrick A., assignor.)
- International Harvester Company of New Jersey. (See Bunting, Norman E., assignor.)
- International Harvester Company of New Jersey. (See Grieves, Albert, assignor.)
- International Harvester Company of New Jersey. (See Gronke, Barney, assignor.)
- International Harvester Company of New Jersey. (See Hagadone, Clinton A., assignor.)
- International Harvester Company of New Jersey. (See Leonhauser, Ara U., assignor.)
- International Harvester Company of New Jersey. (See Osterholm, William C., assignor.)
- International Harvester Company of New Jersey. (See Pearson, Charles, assignor.)
- International Harvester Company of New Jersey. (See Phelps, George L., assignor.)
- International Harvester Company of New Jersey. (See Sharp, Charles S., assignor.)
- International Harvester Company of New Jersey. (See Sharp, James A., assignor.)
- International Harvester Company of New Jersey. (See Sperry, Herbert B., assignor.)
- International Harvester Company of New Jersey. (See Stone, John A., assignor.)
- International Harvester Company of New Jersey. (See Sturrock, John, assignor.)
- International Harvester Company of New Jersey. (See Waite, Harry C., assignor.)
- International Harvester Company of New Jersey. (See Witte, Gustav W., assignor.)
- International Harvester Corporation. (See Howe, Frank D., assignor.)
- International Harvester Corporation. (See Johnston, Edward A., assignor.)
- International Harvester Corporation. (See Johnston and Longenecker, assignors.)
- International Harvester Corporation. (See Kane, Edmund J., assignor.)
- International Harvester Corporation. (See Moxey, James A., assignor.)
- International Harvester Corporation. (See Podlešák, Henry J., assignor.)
- International Harvester Corporation. (See Steward, John F., assignor.)
- International Harvester Corporation. (See Waite, Harry C., assignor.)
- International Harvester Corporation. (See Waterman, Bradley, and Andrew, assignors.)
- International Harvester Corporation. (See Weaver, Ira A., assignor.)
- International Horse Shoe Co., The. (See Pullar, James, assignor.)
- International Lace Company. (See Roberts, Edwin S., assignor.)
- International Machine and Screw Company. (See Warwick, George T., assignor.)
- International Mailing Tube & Wrapper Company. (See Greve, Herman L., assignor.)
- International Money Machine Company. (See Bilyeu and Overlin, assignors.)
- International Money Machine Company. (See Hawley, Amos H., assignor.)
- International Money Machine Company. (See Overlin, William S., assignor.)
- International Money Machine Company. (See White, Nelson, assignor.)
- International Motor Company. (See Hewitt, Edward R., assignor.)
- International Motor Company. (See Hewitt and Masury, assignors.)
- International Motor Company. (See Mack, John M., assignor.)
- International Motor Company. (See Masury, Alfred F., assignor.)
- International Motor Company. (See Mueller, Frank, assignor.)
- International Motor Company. (See Whiting, John H., assignor.)
- International Oxygen Company. (See Levin, Isaac H., assignor.)
- International Paper Company. (See Cline and Rhodes, assignors.)
- International Paper Company. (See Curtis, Allen, assignor.)
- International Pneumatic Tube Company, The. (See Ball, Robert, assignor.)
- International Postal Supply Company of New York. (See Jahn, Frederick G., assignor.)
- International Precipitation Company. (See Cottrell and Burns, assignors.)
- International Precipitation Company. (See Schmidt and Roberts, assignors.)
- International Printing Company, The. (See Henderson, George K., assignor.)

Alphabetical list of patentees—Continued.

- International Register Co., The. (See Kirchhoff, William G., assignor.)
- International Register Company, The. (See Woodward, Arthur H., assignor.)
- International Signal Company, The. (See Webb, Jean F., Jr., assignor.)
- International Silver Co. (See Hobson, Arthur E., assignor.)
- International Steam Pump Company. (See Childs, John N., assignor.)
- International Steam Pump Company. (See Jennings, Arthur B., assignor.)
- International Steam Pump Company. (See Scott, Clarence N., assignor.)
- International Telephone Co., The. (See Hastings, Ruben C. M., assignor.) (Reissue.)
- International Time Recording Company of New York. (See Bryce, James W., assignor.)
- International Time Recording Company of New York. (See Goss and Bryce, assignors.)
- International Time Recording Company of New York. (See Larrabee, Clinton E., assignor.)
- International Typesetting Machine Company. (See Armstrong, Henry A., assignor.)
- International Typesetting Machine Company. (See Bertram, William E., assignor.)
- International Typesetting Machine Company. (See Brack, William R., assignor.)
- International Typesetting Machine Company. (See Elgenbrot, Harry L., assignor.)
- International Typesetting Machine Company. (See Homans, Thomas S., assignor.)
- International Typesetting Machine Company. (See Orpen, William H., Jr., assignor.)
- International Typesetting Machine Company. (See Reist, Kirby S., assignor.)
- International Typesetting Machine Company. (See Ridder, Joseph E., assignor.)
- International Typesetting Machine Company. (See Sperry, Samuel E., assignor.)
- International Typesetting Machine Company. (See Sperry and Orpen, assignors.)
- International Window Manufacturing Company. (See Crane, Harry W., assignor.)
- Internationale Rotationsmaschinen-Gesellschaft mit beschränkter Haftung. (See Lehne and Lucke, assignors.)
- Interstate Electric Novelty Co. (See Sagebrecht, Charles J., assignor.)
- Interstate Electric Novelty Co. (See Tauber, Bernard, assignor.)
- Interstate Electric Novelty Company. (See Heinrich, Gustav P., assignor.)
- Interstate Electric Novelty Company. (See Heinrich and Dunn, assignors.)
- Interstate Electric Novelty Company. (See Stock, John, assignor.)
- Interstate Silo Company. (See MacCallum and Eggleston, assignors.)
- Inventors Specialty Manufacturing Company. (See Doner, Martin J., assignor.)
- Invincible Manufacturing Company. (See Harroun, Ray W., assignor.)
- Inwood, Richard G., and P. C. Lavenberg, South Bend, Ind., assignors, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Combined carriage and former for wire-bound-box machines. No. 1,128,144; Feb. 9; Gaz. vol. 211; p. 560.
- Inwood, Richard G., and P. C. Lavenberg, South Bend, Ind., assignors, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Means for making box-blanks. No. 1,128,145; Feb. 9; Gaz. vol. 211; p. 560.
- Inwood, Richard G., and P. C. Lavenberg, South Bend, Ind., assignors, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Making boxes. No. 1,128,252; Feb. 9; Gaz. vol. 211; p. 596.
- Iocca, Louis, New York, N. Y. Undergarment. No. 1,155,732; Oct. 5; Gaz. vol. 219; p. 142.
- Ionides, Alexander C., Jr., London, England. Crucible and like furnace. No. 1,139,482; May 4; Gaz. vol. 214; p. 268.
- Ioor, John P., Grand Rapids, Mich., assignor to National Piano Manufacturing Company, Chicago, Ill. Coin-operated automatic piano-player. No. 1,141,549; June 1; Gaz. vol. 215; p. 165.
- Iowa Washing Machine Company. (See Drolet, Mederic, assignor.)
- Ipsen, Henrik P., New York, N. Y. Bottle and cap therefor. No. 1,124,450; Jan. 12; Gaz. vol. 210; p. 480.
- Ireland, A Bertsell, F. L., and H. A. Norwich, N. Y. Cutting-machine. No. 1,164,650; Dec. 21; Gaz. vol. 221; p. 755.
- Ireland, Albert V. J., New York, N. Y. Stiletto or pointed pin. No. 1,161,684; Nov. 23; Gaz. vol. 220; p. 1285.
- Ireland, Frank L. (See Ireland, A Bertsell, F. L., and H. A.)
- Ireland, Harley R., Brazil, Ind., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Die for brick-making-machines. No. 1,138,114; May 4; Gaz. vol. 214; p. 139.
- Ireland, Herbert A. (See Ireland, A Bertsell, F. L., and H. A.)
- Ireland, Morris B., New York, N. Y. Clutch. (Reissue.) No. 13,893; Mar. 23; Gaz. vol. 212; p. 1325.
- Ireland, Roy R., Chicago, Ill., and A. F. F. Gilson, Closter, N. J., assignors to Western Electric Company, New York, N. Y. House telephone set. No. 1,161,863; Nov. 30; Gaz. vol. 220; p. 1393.
- Ireland, Walter, Cincinnati, Ohio. Resilient wheel. No. 1,151,467; Aug. 24; Gaz. vol. 217; p. 1269.
- Irlin, Arnold, Hamburg, Germany. Heating device for liquid fuel. No. 1,148,515; Aug. 3; Gaz. vol. 217; p. 11.
- Irion, Matthew, and A. E. Mueller, Louisville, Ky. Recording apparatus. No. 1,141,962; June 8; Gaz. vol. 215; p. 342.
- Irion, Matthew, and A. E. Mueller, Louisville, Ky. Speed-indicating and mileage-registering apparatus. No. 1,141,963; June 8; Gaz. vol. 215; p. 343.
- Irion, Matthew, and A. E. Mueller, Louisville, Ky. Registering mechanism. No. 1,148,516; Aug. 3; Gaz. vol. 217; p. 11.
- Irish, Clarence R. (See Irish, Everett and C. R.)
- Irish, David J. (See Peabody and Irish.)
- Irish, David J., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Liquid-atomizer. No. 1,150,940; Aug. 24; Gaz. vol. 217; p. 1093.
- Irish, Everett and C. R., Indianapolis, Ind. Fluid measuring and delivering device. No. 1,165,508; Dec. 28; Gaz. vol. 221; p. 1093.
- Irish, Leon C., Haynesville, Me. Making drop-forged drop-axles. No. 1,134,456; Apr. 6; Gaz. vol. 213; p. 136.
- Irish, Luther B., assignor of one-third to F. R. Bentley, Baraboo, Wis. Lifting, supporting, and lowering apparatus. No. 1,127,253; Feb. 2; Gaz. vol. 211; p. 207.
- Irish, William M. (See Van Dyke and Irish.)
- Iron, John W., assignor of forty one-hundredths to E. Glatt, Oakland, Cal. Elevator safety-stop. No. 1,163,239; Dec. 7; Gaz. vol. 221; p. 176.
- Irons, Robert H., W. Brown, and J. W. Sheperdson, Harrisburg, Pa. Metal-pouring apparatus. No. 1,152,319; Aug. 31; Gaz. vol. 217; p. 1611.
- Irrgang, Adolf. (See Proskauer and Irrgang.)
- Irrgang, William F. (See Clark, Irrgang, and Clark.)
- Irsza, Louis, West Pullman, Ill. Signal-headlight for vehicles. No. 1,147,945; July 27; Gaz. vol. 216; p. 1106.
- Irvin, John J., Bellwood, Pa. Dump-car. No. 1,134,859; Apr. 6; Gaz. vol. 213; p. 279.
- Irvine, Ollie M., Marshall, Mo. Broom-banding plate. No. 1,125,689; Jan. 19; Gaz. vol. 210; p. 958.
- Irvine, Robert B., Bay City, Mich. Electric fly-killer. No. 1,163,823; Dec. 14; Gaz. vol. 221; p. 428.
- Irving, Adam H., Spokane, Wash., and D. R. Tanner, La Grande, Oreg. Drying-kiln-truck take-up. No. 1,154,315; Sept. 21; Gaz. vol. 218; p. 758.
- Irving, James A., New York, N. Y. Propeller. (Reissue.) No. 13,879; Feb. 16; Gaz. vol. 211; p. 926.
- Irwin, Charles H., Fairport, Iowa. Angle-plate. No. 1,128,986; Feb. 16; Gaz. vol. 211; p. 902.
- Irwin, Elnora, Montpelier, Ind. Hen's nest. No. 1,123,300; Jan. 5; Gaz. vol. 210; p. 34.
- Irwin, Elnora, Montpelier, Ind. Chicken-brooder. No. 1,165,509; Dec. 28; Gaz. vol. 221; p. 1093.
- Irwin Foundry & Mine Car Company. (See Sensenich, Chester D., assignor.)
- Irwin, Mabel L., Philadelphia, Pa. Stocking-supporter. No. 1,150,120; Aug. 17; Gaz. vol. 217; p. 748.
- Irwin, Richard, Farmington, Mo. Automobile-puller. No. 1,124,451; Jan. 12; Gaz. vol. 210; p. 480.
- Irwin, Roy H., Stanfield, Oreg. Filing device. No. 1,158,808; Nov. 2; Gaz. vol. 220; p. 140.
- Irwin, Thomas K., London, England. Apparatus for treating liquids with gas. No. 1,129,682; Feb. 23; Gaz. vol. 211; p. 1179.
- Irwin, Thomas K., London, England. Hydro-extractor or like centrifugal machine. No. 1,145,900; July 13; Gaz. vol. 216; p. 342.
- Irwin, Thomas K., Westminster, assignor to Anglo-Continental Fertilizers Syndicate Limited, London, England. Treatment of sewage and the like. No. 1,166,373; Dec. 28; Gaz. vol. 221; p. 1402.
- Isaac, Theodor, assignor of two-thirds to L. Schram and J. Rothschild, Chicago, Ill. Talking-machine. No. 1,160,998; Nov. 16; Gaz. vol. 220; p. 998.
- Isaacs, Albert, New York, N. Y. Duplicating roll or sheet and making same. No. 1,151,951; Aug. 31; Gaz. vol. 217; p. 1483.
- Isaacs, Caleb A., Los Angeles, Cal. Lawn-edger. No. 1,152,093; Aug. 31; Gaz. vol. 217; p. 1534.
- Isaacs & Company, Reub. (See Isaacs, Isaac, assignor.)
- Isaacs, Isaac, assignor to Reub Isaacs & Company, New York, N. Y. Coat-pad. No. 1,146,710; July 13; Gaz. vol. 216; p. 627.
- Isaacs, Joel L., New York, N. Y., assignor to Simmons Manufacturing Company, Kenosha, Wis. Finishing metal joints. No. 1,142,711; June 8; Gaz. vol. 215; p. 605.
- Isaacs, Josiah, Birmingham, England. Toy. No. 1,152,639; Sept. 7; Gaz. vol. 218; p. 96.
- Isaacs, Leonard. (See Wooldridge, John, assignor.)
- Isaacson, August, Marshfield, Oreg. Saw-guard for band-mills. No. 1,128,879; Feb. 16; Gaz. vol. 211; p. 862.

- Isachson, Norman, Albion, Idaho. Additional air-supply for explosive-engines. No. 1,130,293; Mar. 2; Gaz. vol. 212; p. 157.
- Isbell, John F., Los Angeles, Cal., assignor to O. Allen, Denver, Colo. Concentrator. No. 1,163,344; Dec. 7; Gaz. vol. 221; p. 214.
- Isbell, John F., Los Angeles, Cal., assignor to O. Allen, Denver, Colo. Head-motion for concentrators. No. 1,163,345; Dec. 7; Gaz. vol. 221; p. 214.
- Isbell-Porter Company. (See Duckham, Arthur, assignor.)
- Isbell, Sidney M., Jackson, Mich. Weeder. No. 1,158,689; Nov. 2; Gaz. vol. 220; p. 98.
- Isberg, Eric, Cadillac, assignor of one-half to S. A. Wellman, South Boardman, Mich. Pump. No. 1,134,048; Mar. 30; Gaz. vol. 212; p. 1642.
- Iseberg Cigar Company. (See Iseberg, Gerson, assignor.)
- Iseberg, Gerson, New York, N. Y., assignor to Iseberg Cigar Company, Wheeling, W. Va. Advertising device. No. 1,144,707; June 29; Gaz. vol. 215; p. 1393.
- Iserman, Harvey, New Hyde Park, N. Y., assignor to Multiple-Grate-Bar Endless Chain Stoker Company. Furnace. No. 1,125,543; Jan. 19; Gaz. vol. 210; p. 904.
- Iserman, Harvey, New Hyde Park, N. Y., assignor to Multiple-Grate-Bar Endless Chain Stoker Company. Mechanical stoker. No. 1,125,544; Jan. 19; Gaz. vol. 210; p. 904.
- Isham, Willard S., Washington, D. C. Flying-machine. No. 1,135,455; Apr. 13; Gaz. vol. 213; p. 529.
- Isherwood, Alfred, New Bedford, Mass. Loom-shuttle. No. 1,156,404; Oct. 12; Gaz. vol. 219; p. 401.
- Isherwood, Harold. (See Pollen and Isherwood.)
- Isherwood, Joseph W., Middlesbrough, England. Building longitudinally-framed vessels. No. 1,147,732; July 27; Gaz. vol. 216; p. 1032.
- Isherwood, Percy C. C., Bushey Heath, England. Manufacturing anodes. No. 1,143,828; June 22; Gaz. vol. 215; p. 1059.
- Ishida, Maritarow, Seattle, Wash. Apparatus for washing tumblers. No. 1,153,308; Sept. 14; Gaz. vol. 218; p. 370.
- Isidor, Joseph S., Newark, N. J. Key. No. 1,127,770; Feb. 9; Gaz. vol. 211; p. 428.
- Isler, Max H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Yellow to brown vat dyes. No. 1,126,475; Jan. 26; Gaz. vol. 210; p. 1271.
- Isley, George H. (See Jefferies and Isley.)
- Isley, Gilbert W., Toronto, Ontario, Canada. Valve. No. 1,155,576; Oct. 5; Gaz. vol. 219; p. 87.
- Israel, Jacob. (See Keen, Thomas A., assignor.)
- Israel, Lon H., Fairfield, Iowa. Blow-out patch. No. 1,155,577; Oct. 5; Gaz. vol. 219; p. 87.
- Israel, William P., assignor to R. C. Penfield, New York, N. Y. Brick lifting and transferring mechanism. No. 1,134,953; Apr. 6; Gaz. vol. 213; p. 310.
- Itala Fabbrica Di Automobile. (See Balloco, Alberto, assignor.)
- Ito, Corley Z., Los Angeles, Cal. Expression-doll. No. 1,160,080; Nov. 9; Gaz. vol. 220; p. 618.
- Ito, Kumezo, Fukuoka-Ken, Japan. Bridge-maneuvering apparatus. No. 1,150,941; Aug. 24; Gaz. vol. 217; p. 1093.
- Ivanoff, Simeon. (See Grodzki and Ivanoff.)
- Ivers, Oscar C., New York, N. Y. Collapsible and demountable tire-rim. No. 1,130,604; Mar. 2; Gaz. vol. 212; p. 267.
- Iversen, Einar O., Chicago, Ill. Door-holder. No. 1,159,036; Nov. 2; Gaz. vol. 220; p. 216.
- Iversen, Ernest E. (See Buhmann and Iversen.)
- Iverson, John P., Salinas, Cal. Beet-plow. No. 1,161,215; Nov. 23; Gaz. vol. 220; p. 1121.
- Iverson, Sam K., Colfax, Wis. Spraying attachment. No. 1,144,204; June 22; Gaz. vol. 215; p. 1192.
- Ives, Frederic E., Philadelphia, Pa. Color photography. No. 1,145,143; July 6; Gaz. vol. 216; p. 59.
- Ives, Frederic E., Woodcliff-on-the-Hudson, N. J. Photographic camera. No. 1,153,229; Sept. 14; Gaz. vol. 218; p. 343.
- Ives, Frederic E., New York, N. Y. Color-photography print. No. 1,160,288; Nov. 16; Gaz. vol. 220; p. 745.
- Ives, Lewis J., Medina, N. Y. Box. No. 1,164,095; Dec. 14; Gaz. vol. 221; p. 522.
- Ivins, Clifford E., Los Angeles, Cal. Dust-proof cap for tire-valves. No. 1,131,138; Mar. 9; Gaz. vol. 212; p. 484.
- Ivor, Barry, Chicago, Ill. Odorless gas heating-stove. No. 1,164,818; Dec. 21; Gaz. vol. 221; p. 814.
- Ivory Garter Company, The. (See Butts, Daniel G., assignor.)
- Ivory, James W. (See Mason, Walter L., assignor.)
- Ivory, James W., Philadelphia, Pa. Mirror attachment for a vise. No. 1,134,679; Apr. 6; Gaz. vol. 213; p. 218.
- Ivory, James W., Philadelphia, Pa. Fastening for an artificial tooth. No. 1,134,680; Apr. 6; Gaz. vol. 213; p. 218.
- Ivory, James W., Philadelphia, Pa. Rubber-dam clamp. No. 1,159,496; Nov. 9; Gaz. vol. 220; p. 411.
- Izer, Elmer E., assignor to The Pomona Manufacturing Company, Pomona, Cal. Pump-rod shoe. No. 1,148,777; Aug. 3; Gaz. vol. 217; p. 106.
- Izer, Elmer E., assignor to Pomona Manufacturing Company, Pomona, Cal. Pump. No. 1,154,316; Sept. 21; Gaz. vol. 218; p. 759.
- Izett, Carmichael, New York, N. Y. Laundry-bag. No. 1,136,138; Apr. 20; Gaz. vol. 213; p. 809.
- J. Gordon Knight Electric Company. (See Knight, Julian G., assignor.)
- J. Hungerford Smith Company. (See Smith, James H., assignor.)
- J. Hungerford Smith Grape Juice Company. (See Schlotterbeck, Julius O., assignor.)
- J. Spaulding & Sons Co. (See Spaulding, Huntley N., assignor.)
- J. Stevens Arms & Tool Company. (See Lewis, George S., assignor.)
- J. Stone & Company. (See Ralston, Gavin C., assignor.)
- J. Stone and Company Limited. (See Pike and Neville, assignors.)
- J. A. Fay & Egan Company. (See Solem, Peter A., assignor.)
- J. & A. Jensen & Dahl. (See Alfson, Adolf A., assignor.)
- J. A. Schwob Co. (See Schwob, Oliver O., assignor.)
- J. B. King & Company. (See King and Fancher, assignors.)
- J. B. M. Electric Company. (See Jepson, John W., assignor.)
- J. C. Blair Company. (See Africa and McSheehy, assignors.)
- J. C. Blair Company. (See McSheehy, Bartholomew E., assignor.)
- J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Larsson and Österberg, assignors.)
- J. D. Randall Company, The. (See Randall, James D., assignor.)
- J. D. Riedel Aktiengesellschaft. (See Boedecker, Friedrich, assignor.)
- J. D. Riedel Aktiengesellschaft. (See Gans, Robert, assignor.)
- J. D. Warren Mfg. Co. (See Richards, Brayton G., assignor.)
- J. E. Mergott Company, The. (See Fuller, Franz A., assignor.)
- J. E. Porter Company. (See Buckingham, Roswell H., assignor.)
- J. E. Porter Company. (See Jacobs, William F., assignor.)
- J. G. Brill Company, The. (See Adams, Walter S., assignor.)
- J. G. Brill Company, The. (See Brooks, James A., assignor.)
- J. G. Brill Company, The. (See Curwen, Samuel M., assignor.)
- J. G. Brill Company, The. (See Kling, Louis A., assignor.)
- J. G. Brill Company, The. (See Kling and Kohler, assignors.)
- J. G. Brill Company, The. (See Kohler, George B., assignor.)
- J. G. Brill Company, The. (See McAllister, Wallace B., assignor.)
- J. G. Brill Company, The. (See Smith, Warren M., assignor.)
- J. Geo. Leyner Engineering Works Company, The. (See Ditson, Jesse, assignor.)
- J. H. Day Company, The. (See Allison, Daniel K., assignor.)
- J. H. Day Company, The. (See Allison and Pinkney, assignors.)
- J. H. Sager Company. (See Sager, James H., assignor.)
- J. H. White Manufacturing Company. (See Kahns, Walter R., assignor.)
- J. H. White Manufacturing Company. (See White, Edwin L., assignor.)
- J. H. Williams & Co. (See Amborn, George, assignor.)
- J. I. Case Plow Works. (See Michael, Clement W., assignor.)
- J. I. Case Threshing Machine Company. (See Davies, David P., assignor.)
- J. I. Case Threshing Machine Company. (See MacGregor and Foster, assignors.)
- J. I. Case Threshing Machine Company. (See Morrissey, Patrick W., assignor.)
- J. I. Case Threshing Machine Company. (See Power, Jeffrey J., assignor.)
- J. I. Case Threshing Machine Company. (See Stuckel, Frank C., assignor.)
- J. J. Beyerle Mfg. Co. (See Farkas, Joseph D., assignor.)
- J. J. Sommer and Co. (See Stone, Samuel N., assignor.)
- J. K. Stewart Manufacturing Company. (See Bolling, Baltzar E., assignor.)
- J. L. Clark Carriage Company, The. (See Foulke, Horace M., assignor.)
- J. L. Clark Manufacturing Company. (See Frankenberg, Alfred, assignor.)
- J. L. Clark Manufacturing Company. (See Truesbury, Fred C., assignor.)
- J. L. Jones Manufacturing Company. (See Griffin, Alvah M., assignor.)
- J. L. Mott Iron Works, The. (See Crabel, John H., assignor.)
- J. M. Card Lumber Co. (See Catlin, Abel D., assignor.)
- J. M. Lehmann Company. (See Hollstein, Paul G., assignor.)

Alphabetical list of patentees—Continued.

- J. P. Eustis Manufacturing Company. (See Eustis and Brown, assignors.)
- J. P. Karns Tunneling Machine Co. (See Karns, John P., assignor.)
- J. R. Bunting Bedding Company. (See Ferber, William M., assignor.)
- J. R. Little Metal Wheel Company. (See Denney, William A., assignor.)
- J. & T. M. Greeves Limited *et al.* (See Cotton, Kennedy, and Kling, assignors.)
- Jabez Burns & Sons. (See Burns, Robert, assignor.)
- Jablonski, Vincent F., New York, N. Y. Shower-bath fixture. No. 1,148,968; Aug. 3; Gaz. vol. 217; p. 171.
- Jabs, Asmus, Zurich, Switzerland. Electric pendulum-clock. No. 1,132,012; Mar. 16; Gaz. vol. 212; p. 827.
- Jacino, Charles, Garfield, Utah. Rail-joint. No. 1,143,710; June 22; Gaz. vol. 215; p. 1018.
- Jack, Alexander G. M. (See Hadfield, Jack, and Milne.)
- Jack, Lewis T., Mount Sterling, Iowa. Extended step. No. 1,141,800; June 1; Gaz. vol. 215; p. 250.
- Jack, Lewis T., Mount Sterling, Iowa. Gate-hinge. No. 1,146,500; July 13; Gaz. vol. 216; p. 556.
- Jack, Lewis T., assignor to O. E. and R. McNamar, Mount Sterling, Iowa. Spark-arrester. No. 1,155,733; Oct. 5; Gaz. vol. 219; p. 143.
- Jack, Robert E., Milwaukee, assignor to Advance Manufacturing Company, Racine, Wis. Quick-acting vise. No. 1,125,329; Jan. 19; Gaz. vol. 210; p. 829.
- Jack, William Y., New York, N. Y. Well-casing spear. No. 1,155,926; Oct. 5; Gaz. vol. 219; p. 209.
- Jackman, Franklin P., Marshfield, Oreg. Elastic-fluid turbine. No. 1,145,144; July 6; Gaz. vol. 216; p. 59.
- Jackman, Thomas J., *et al.* (See Gaeth, Paul, assignor.)
- Jackson, Abraham H. (See McQueen, Charley, assignor.)
- Jackson, Albert C., Dayton, Ohio. Coin-wrapping device. No. 1,130,978; Mar. 9; Gaz. vol. 212; p. 429.
- Jackson, Albert C., Dayton, Ohio. Flush-valve for water-closets. No. 1,147,024; July 20; Gaz. vol. 216; p. 758.
- Jackson, Albert R., assignor to William Galloway Company, Waterloo, Iowa. Step-bearing head for rotary spindles. No. 1,134,270; Apr. 6; Gaz. vol. 213; p. 69.
- Jackson, Andrew. (See Bradbury, Roy J., assignor.)
- Jackson, Andrew, and F. C. Drescher, Chicago, Ill. Valve. No. 1,126,766; Feb. 2; Gaz. vol. 211; p. 36.
- Jackson, Arthur C., assignor to Miller Lock Company, Philadelphia, Pa. Lock. No. 1,130,822; Mar. 9; Gaz. vol. 212; p. 375.
- Jackson, Arthur C., Philadelphia, assignor to Miller Lock Company, Frankford, Philadelphia, Pa. Time-recording apparatus. No. 1,132,659; Mar. 23; Gaz. vol. 212; p. 1112.
- Jackson, Byron, Sr., and B. Jackson, Jr., San Francisco, Cal.; said Byron Jackson, Sr., assignor to said B. Jackson, Jr. Bored-well-pumping apparatus. No. 1,140,828; May 25; Gaz. vol. 214; p. 1199.
- Jackson, Carl A., Kansas City, Mo. Tooth-brush. No. 1,142,566; June 8; Gaz. vol. 215; p. 558.
- Jackson, Claibourne F., Las Minas, Cuba. Non-refillable bottle. No. 1,156,360; Oct. 12; Gaz. vol. 219; p. 384.
- Jackson, Claibourne F., Las Minas, Cuba. Mail-catcher. No. 1,156,844; Oct. 12; Gaz. vol. 219; p. 554.
- Jackson, Clarence S., and A. Schindler, New York, N. Y., assignors to National Bottle Cap Company. Bottle. No. 1,124,743; Jan. 12; Gaz. vol. 210; p. 585.
- Jackson Cushion Spring Company. (See Franz, Gustav A., assignor.)
- Jackson Cushion Spring Company. (See Smith, Watson R., assignor.)
- Jackson Cushion Spring Company. (See Smith and Franz, assignors.)
- Jackson, Dugald C., assignor to D. C. Jackson and W. B. Jackson, Madison, Wis. Lifting-magnet. No. 1,147,682; July 20; Gaz. vol. 216; p. 988.
- Jackson, Edgar M., assignor of one-half to L. A. Richards, Franklin, Pa. Rail-joint. No. 1,145,770; July 6; Gaz. vol. 216; p. 278.
- Jackson, Everett R., Hesper, N. D. Vehicle-body fastener. No. 1,136,532; Apr. 20; Gaz. vol. 213; p. 950.
- Jackson Fire Proof Partition Company, The. (See Maitland, James D., assignor.)
- Jackson, Fletcher C., *et al.* (See Jackson, George E., assignor.)
- Jackson, Francis B., Tulsa, Okla. Apparatus for flowing oil from oil-wells. No. 1,151,882; Aug. 31; Gaz. vol. 217; p. 1461.
- Jackson, Frank, Denver, Colo. Air-inlet valve for intake-manifolds of internal-combustion engines. No. 1,151,105; Aug. 24; Gaz. vol. 217; p. 1147.
- Jackson, Frank M., *et al.* (See Doren, Lewis W., assignor.)
- Jackson, George B. (See Jackson, Wilton D., assignor.)
- Jackson, George B., Philadelphia, Pa. Fusee. No. 1,153,087; Sept. 7; Gaz. vol. 218; p. 256.
- Jackson, George E., assignor of one-fourth to J. W. Jackson, Springfield, and one-fourth to F. C. Jackson, Akron, Ohio. Sprinkling device. No. 1,166,374; Dec. 28; Gaz. vol. 221; p. 1402.
- Jackson, Gilbert, New York, N. Y. Bottle-valve. No. 1,154,638; Sept. 28; Gaz. vol. 218; p. 898.
- Jackson, Harold, Garstang, England. Apparatus for hydrating, pulping, or reducing material in a wet or semi-liquid state. No. 1,133,968; Mar. 30; Gaz. vol. 212; p. 1615.
- Jackson, Henry O. (See Aurand, Edward L., assignor.)
- Jackson, Henry W., East Orange, N. J., assignor to Westinghouse Lamp Company. Support for incandescent-lamp filaments. No. 1,150,270; Aug. 17; Gaz. vol. 217; p. 804.
- Jackson, J. L., *et al.* (See Byron, Hagar B., assignor.)
- Jackson, James E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for finishing insoles. No. 1,162,721; Nov. 30; Gaz. vol. 220; p. 1686.
- Jackson, James H., South Kensington, London, England. Tube-coupling for electrical circuits. No. 1,148,844; Aug. 3; Gaz. vol. 217; p. 129.
- Jackson, James N., Millersville, Ill. Domestic utensil. No. 1,156,781; Oct. 12; Gaz. vol. 219; p. 532.
- Jackson, John, assignor of one-half to R. Jackson, Crewe, England. Fastening means for wagon-coverings. No. 1,145,634; July 6; Gaz. vol. 216; p. 248.
- Jackson, John, assignor to J. A. Lubbers and C. L. Bell, Clinton, Iowa. Fly-swatter. No. 1,124,138; Jan. 5; Gaz. vol. 210; p. 319.
- Jackson, John C., Philadelphia, Pa. Automobile construction. No. 1,126,476; Jan. 26; Gaz. vol. 210; p. 1271.
- Jackson, John F. (See Wilson and Jackson.)
- Jackson, John L. (See Menz and Jackson.)
- Jackson, John M., Kansas City, Kans. Apparatus for removing wall-paper. No. 1,164,940; Dec. 21; Gaz. vol. 221; p. 857.
- Jackson, John P., Washington, D. C. Mold for concrete wall construction. No. 1,164,352; Dec. 14; Gaz. vol. 221; p. 611.
- Jackson, John S., Clinton, Ill., assignor of one-half to F. Ball and W. D. Barnett. Rail joint and chair. No. 1,129,098; Feb. 23; Gaz. vol. 211; p. 976.
- Jackson, John W., *et al.* (See Jackson, George E., assignor.)
- Jackson, John W., St. Louis, Mo. Steam washing-machine. No. 1,136,808; Apr. 20; Gaz. vol. 213; p. 1048.
- Jackson, John W., Springfield, Ill. Plunger-operating means for washing-machines. No. 1,151,362; Aug. 24; Gaz. vol. 217; p. 1234.
- Jackson, Lucian C. (See Moulthrop and Jackson.)
- Jackson, Lucian C., *et al.* (See Stone and Brown, assignors.)
- Jackson, Nephi S., Tecoma, Nev. Device for watering poultry. No. 1,148,778; Aug. 3; Gaz. vol. 217; p. 107.
- Jackson, P. T., Jr. (See Warner, George B., assignor.)
- Jackson, Percy. (See Perrine, George, assignor.)
- Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor electric device. No. 1,159,944; Nov. 9; Gaz. vol. 220; p. 574.
- Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Seal. No. 1,166,217; Dec. 28; Gaz. vol. 221; p. 1345.
- Jackson, Richard. (See Jackson, John, assignor.)
- Jackson, Richard, Jr., assignor to Detroit Refrigerator Grip Company, Detroit, Mich. Portable refrigerator. No. 1,137,324; Apr. 27; Gaz. vol. 213; p. 1272.
- Jackson, Robert E., Victoria, Va. Locomotive-washing apparatus. No. 1,137,626; Apr. 27; Gaz. vol. 213; p. 1376.
- Jackson, Robert E., Victoria, and F. E. Bell, Norfolk, Va. Spark-arrester. No. 1,123,301; Jan. 5; Gaz. vol. 210; p. 34.
- Jackson, Robert E., Victoria, and F. E. Bell, Norfolk, Va. Fire-box. No. 1,135,286; Apr. 13; Gaz. vol. 213; p. 469.
- Jackson, Robert G., Tacoma, Wash. Food compound. No. 1,153,925; Sept. 21; Gaz. vol. 218; p. 624.
- Jackson, Rollie A., Owensboro, Ky. Lock-nut plate. No. 1,125,545; Jan. 19; Gaz. vol. 210; p. 905.
- Jackson, Roy L., Marion, Ala. Thumb-guard. No. 1,161,478; Nov. 23; Gaz. vol. 220; p. 1214.
- Jackson, Samuel E., Great Bend, and A. P. Barnes, West Mineral, Kans. Water-heater. No. 1,150,522; Aug. 17; Gaz. vol. 217; p. 890.
- Jackson, Simeon S., Boston, assignor to The Stafford Company, Readville, Mass. Loom shuttle-reloader. No. 1,130,605; Mar. 2; Gaz. vol. 212; p. 268.
- Jackson, Simeon S., assignor to The Stafford Company, Readville, Mass. Loom. No. 1,131,608; Mar. 9; Gaz. vol. 212; p. 647.
- Jackson, Simeon S., Boston, assignor to The Stafford Company, Readville, Mass. Weft-part for looms. No. 1,131,841; Mar. 16; Gaz. vol. 212; p. 766.
- Jackson, Simeon S., assignor, by mesne assignments, to The Stafford Company, Readville, Mass. Weft-replenishing loom. No. 1,133,802; Mar. 30; Gaz. vol. 212; p. 1560.
- Jackson, Simeon S., assignor to The Stafford Company, Boston, Mass. Warp stop-motion for looms. No. 1,143,120; June 15; Gaz. vol. 215; p. 789.
- Jackson, Sumner, Denver, Colo. Corner-turning indicator for automobiles. No. 1,136,139; Apr. 20; Gaz. vol. 213; p. 809.

- Jackson, Thomas, New Cross, London, assignor to himself and A. Ramsay, Folkestone, England. Gas-meter. No. 1,123,540; Jan. 5; Gaz. vol. 210; p. 118.
- Jackson, Thomas, London, assignor to A. Ramsay, Chesham, England. Gas-meter. No. 1,148,779; Aug. 3; Gaz. vol. 217; p. 107.
- Jackson, Thomas H., Scranton, Pa. Base-ball board. No. 1,166,218; Dec. 28; Gaz. vol. 221; p. 1346.
- Jackson, Thomas L., Cincinnati, Ohio, assignor to Frank Holton & Co., Chicago, Ill. Trombone. No. 1,145,145; July 6; Gaz. vol. 216; p. 60.
- Jackson, Weeden O., *et al.* (See Pearson, James H., assignor.)
- Jackson, William A., Altoona, Pa. Wrench. No. 1,135,806; Apr. 13; Gaz. vol. 213; p. 653.
- Jackson, William B. (See Jackson, Dugald C., assignor.)
- Jackson, William F., Bridgeport, Ill. Automobile-fender. No. 1,144,708; June 29; Gaz. vol. 215; p. 1393.
- Jackson, William W., New York, N. Y. Camp-stove. No. 1,126,220; Jan. 26; Gaz. vol. 210; p. 1182.
- Jackson, William W., Renovo, Pa. Umbrella lock-box. No. 1,160,081; Nov. 9; Gaz. vol. 220; p. 619.
- Jackson, William W., Toronto, Ontario, Canada, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory-fitting. No. 1,134,743; Apr. 6; Gaz. vol. 213; p. 241.
- Jackson, Wilton D., assignor to G. B. Jackson, Philadelphia, Pa. Fusee. No. 1,153,088; Sept. 7; Gaz. vol. 218; p. 256.
- Jacob F. Smith Paper Box Company. (See Dove-Smith, Joseph, assignor.)
- Jacob Haish Company. (See Anderson, Martin E., assignor.)
- Jacob, Heinrich, Steglitz, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Device for taking aim with quick-firing guns with protecting-shield and telescopic sight. No. 1,146,428; July 13; Gaz. vol. 216; p. 529.
- Jacob, Heinrich, Steglitz, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Distance-measuring instrument. No. 1,160,614; Nov. 16; Gaz. vol. 220; p. 861.
- Jacob, Heinrich, Steglitz, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Aiming device. No. 1,160,615; Nov. 16; Gaz. vol. 220; p. 861.
- Jacob, Max, Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Attachment for cash-registers. No. 1,123,302; Jan. 5; Gaz. vol. 210; p. 34.
- Jacob, Max, Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Attachment for cash-registers. No. 1,123,303; Jan. 5; Gaz. vol. 210; p. 35.
- Jacob, Max, Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,153,309; Sept. 14; Gaz. vol. 218; p. 371.
- Jacobs, Arthur E., Cleveland, Ohio. Toy piano. No. 1,151,790; Aug. 31; Gaz. vol. 217; p. 1428.
- Jacobs, Arthur I., Hartford, Conn., assignor to The Jacobs Manufacturing Company, Chuck. No. 1,123,541; Jan. 5; Gaz. vol. 210; p. 118.
- Jacobs, Charles B., Port Chester, assignor to Murray and Jacobs Manufacturing Company, New York, N. Y. Sand mold and treating the same. No. 1,153,230; Sept. 14; Gaz. vol. 218; p. 343.
- Jacobs, Charles B., Port Chester, assignor to Murray and Jacobs Manufacturing Company, New York, N. Y. Method of and mold for making castings. No. 1,153,231; Sept. 14; Gaz. vol. 218; p. 344.
- Jacobs, Charles B., Port Chester, assignor to American Abrasive Metals Company, New York, N. Y. Vault-light. No. 1,157,002; Oct. 19; Gaz. vol. 219; p. 640.
- Jacobs, Charles C., Akron, Ohio. Combination centering and measuring instrument. No. 1,164,353; Dec. 14; Gaz. vol. 221; p. 611.
- Jacobs, Charles C., Amboy, assignor to F. C. Austin, Chicago, Ill. Disintegrator attachment for elevator-buckets. No. 1,156,291; Oct. 12; Gaz. vol. 219; p. 359.
- Jacobs, Charles D. (See Johnston and Jacobs.)
- Jacobs, Charles D., South Orange, N. J. Means for water-marking paper. No. 1,139,871; May 18; Gaz. vol. 214; p. 830.
- Jacobs, Charles F., Chicago, Ill. Metallurgical implement. No. 1,146,573; July 13; Gaz. vol. 216; p. 581.
- Jacobs, Cuno, Chancellor, S. D. Helmet. No. 1,148,902; Aug. 3; Gaz. vol. 217; p. 148.
- Jacobs, Daniel B., New York, N. Y. Whiffletree clip and hook. No. 1,125,546; Jan. 19; Gaz. vol. 210; p. 905.
- Jacobs, Daniel B., New York, N. Y. Doubletree-clip. No. 1,126,477; Jan. 26; Gaz. vol. 210; p. 1272.
- Jacobs, Edwin C., Norwalk, Ohio. School appliance. No. 1,182,272; Mar. 16; Gaz. vol. 212; p. 922.
- Jacobs, Ernest C., Rockland, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Making pull-on devices for boots and shoes. No. 1,124,139; Jan. 5; Gaz. vol. 210; p. 320.
- Jacobs, Ernest C., Rockland, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Making and applying pull-on devices. No. 1,125,547; Jan. 19; Gaz. vol. 210; p. 905.
- Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Switch-latching mechanism. No. 1,126,221; Jan. 26; Gaz. vol. 210; p. 1182.
- Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Oil-switch. No. 1,133,032; Mar. 23; Gaz. vol. 212; p. 1250.
- Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,144,038; June 22; Gaz. vol. 215; p. 1133.
- Jacobs, Francis A., Montreal, Quebec, Canada. Preheater for fluid-fuel furnaces. No. 1,128,146; Feb. 9; Gaz. vol. 211; p. 561.
- Jacobs, Frank M., deceased; H. Jacobs, administrator, Atchison, Kans. Fire-box for boilers. No. 1,125,106; Jan. 19; Gaz. vol. 210; p. 748.
- Jacobs, Frank M., deceased; H. Jacobs, administrator, Atchison, Kans. Fire-box for boilers. No. 1,135,114; Apr. 13; Gaz. vol. 213; p. 412.
- Jacobs, George, Cleveland, Ohio. Credit-accounting appliance. No. 1,130,823; Mar. 9; Gaz. vol. 212; p. 375.
- Jacobs, George, Cleveland, assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,142,965; June 15; Gaz. vol. 215; p. 734.
- Jacobs, George, Cleveland, assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,160,412; Nov. 16; Gaz. vol. 220; p. 788.
- Jacobs, George S., Laporte, Ind., assignor, by mesne assignments, to F. P. Mount, receiver. Engine-cooling device. No. 1,159,289; May 11; Gaz. vol. 214; p. 588.
- Jacobs, Henry, administrator. (See Jacobs, Frank M.)
- Jacobs, Henry J., assignor to Buffalo Lounge Company, Buffalo, N. Y. Sofa-bed. No. 1,148,019; July 27; Gaz. vol. 216; p. 1132.
- Jacobs, Henry W., Topeka, Kans. Superheater. No. 1,125,690; Jan. 19; Gaz. vol. 210; p. 959.
- Jacobs, Henry W., Topeka, Kans. Superheater. No. 1,125,849; Jan. 19; Gaz. vol. 210; p. 1013.
- Jacobs, Henry W., Topeka, Kans. Piston. No. 1,129,396; Feb. 23; Gaz. vol. 211; p. 1082.
- Jacobs, Henry W., and H. H. Lanning, Topeka, Kans. Valve mechanism for gas-compressors. No. 1,144,360; June 29; Gaz. vol. 215; p. 1275.
- Jacobs, Henry W., and H. H. Lanning, Topeka, Kans. Acetylene-generating apparatus. No. 1,152,512; Sept. 7; Gaz. vol. 218; p. 47.
- Jacobs, John A., and E. Twist, Hebron, N. D. Animal-poke. No. 1,150,942; Aug. 24; Gaz. vol. 217; p. 1093.
- Jacobs, Joseph, San Francisco, Cal. Swimming device. No. 1,159,945; Nov. 9; Gaz. vol. 220; p. 574.
- Jacobs, Kenneth W. (See Bond, Jayson K., assignor.)
- Jacobs Manufacturing Company, The. (See Jacobs, Arthur I., assignor.)
- Jacobs, Maurice I., Brooklyn, N. Y. Greenhouse construction. No. 1,166,219; Dec. 28; Gaz. vol. 221; p. 1346.
- Jacobs, Michael, *et al.* (See Carl, Louis M., assignor.)
- Jacobs-Shupert United States Fire-Box Company. (See Ducas and Coleman, assignors.)
- Jacobs, William F., assignor to J. E. Porter Co., Ottawa, Ill. Stanchion. No. 1,135,526; Apr. 13; Gaz. vol. 213; p. 553.
- Jacobs, William F., assignor to J. E. Porter Company, Ottawa, Ill. Hay-carrier. No. 1,159,388; Nov. 9; Gaz. vol. 220; p. 372.
- Jacobs, William H., assignor, by mesne assignments, to The Lock-Tite Envelope Corporation, New York, N. Y. Wrapper or binder. No. 1,148,487; July 27; Gaz. vol. 216; p. 1298.
- Jacobs, William J., assignor of one-half to J. Simpson, Vanceboro, N. C. Saw-set. No. 1,155,927; Oct. 5; Gaz. vol. 219; p. 209.
- Jacobsen, Carl, De Pere, Wis. Convertible child's high chair and crib. No. 1,137,325; Apr. 27; Gaz. vol. 213; p. 1272.
- Jacobsen, Carl J., De Pere, Wis. Child's cart. No. 1,155,928; Oct. 5; Gaz. vol. 219; p. 209.
- Jacobsen Destination Indicator Company Limited. (See Jacobsen, Cameron, and Lough, assignors.)
- Jacobsen, Olger C., Brigham, Utah. Bracelet. No. 1,134,860; Apr. 6; Gaz. vol. 213; p. 279.
- Jacobsen, Oystein, assignor to The Pelton Water Wheel Company, San Francisco, Cal. Hydraulic thrust-bearing. No. 1,157,873; Oct. 26; Gaz. vol. 219; p. 1008.
- Jacobsen, Peter, Perth Amboy, N. J. Sealing apparatus for wrappers. No. 1,155,929; Oct. 5; Gaz. vol. 219; p. 210.
- Jacobsen, William, J. D. Cameron, and F. J. Lough, assignors to The Jacobsen Destination Indicator Company Limited, Dunedin, New Zealand. Street and station indicator. No. 1,135,693; Apr. 13; Gaz. vol. 213; p. 614.
- Jacobson, Albert, and H. Rubin, New York, N. Y. Life-saving belt. No. 1,162,610; Nov. 30; Gaz. vol. 220; p. 1650.
- Jacobson, Andrew, Council Bluffs, Iowa. Coagulant for water purification and making same. No. 1,137,005; Apr. 27; Gaz. vol. 213; p. 1155.
- Jacobson, Axel E. (See Fraser and Jacobson.)
- Jacobson, C. Alfred, Reno, Nev. Computing-machine. No. 1,149,143; Aug. 3; Gaz. vol. 217; p. 230.

Alphabetical list of patentees—Continued.

- Jacobson, Carl G. T., Eveleth, Minn. Saw-handle. No. 1,149,061; Aug. 3; Gaz. vol. 217; p. 204.
- Jacobson, Charles E., Manchester, Conn., assignor, by mesne assignments, to Crescent Calk Corporation, Syracuse, N. Y. Machine for forming spurs and the like upon bars. No. 1,144,132; June 22; Gaz. vol. 215; p. 1166.
- Jacobson, Frank B., Humboldt, Iowa. Mixing-machine. No. 1,124,452; Jan. 12; Gaz. vol. 210; p. 481.
- Jacobson, Herman S. (See Garber, Woods, and Jacobson.)
- Jacobson, John, Stanley, N. D. Snap-hook. No. 1,152,894; Sept. 7; Gaz. vol. 218; p. 190.
- Jacobson, John, Roberts, Mont. Tamping attachment. No. 1,158,224; Oct. 26; Gaz. vol. 219; p. 1131.
- Jacobson, Monus, New York, N. Y. Drip-pan alarm. No. 1,142,577; June 8; Gaz. vol. 215; p. 561.
- Jacobson, Olof H., Gardfield, Kans. Metal door. No. 1,162,722; Nov. 30; Gaz. vol. 220; p. 1687.
- Jacobson, Peter G., Chicago, Ill. Handle structure. No. 1,156,601; Oct. 12; Gaz. vol. 219; p. 469.
- Jacobson, William A., assignor to Novelty Manufacturing Company, Paterson, N. J. Apparel-belt. No. 1,141,663; June 1; Gaz. vol. 215; p. 205.
- Jacobucci, Raphael, Fall River, Mass. Trolley-finder. No. 1,126,018; Jan. 26; Gaz. vol. 210; p. 1106.
- Jacobs, David S. (See Sewall and Jacobs.)
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Baffle system for Stirling boilers. No. 1,132,013; Mar. 16; Gaz. vol. 212; p. 827.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Baffle system for Stirling boilers. No. 1,132,014; Mar. 16; Gaz. vol. 212; p. 828.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Baffle system for Stirling boilers. No. 1,132,015; Mar. 16; Gaz. vol. 212; p. 828.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,134,077; Mar. 30; Gaz. vol. 212; p. 1652.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Method of and apparatus for regulating the temperature of superheated steam. No. 1,149,265; Aug. 10; Gaz. vol. 217; p. 380.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-superheater. No. 1,150,943; Aug. 24; Gaz. vol. 217; p. 1093.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater-boiler. No. 1,150,944; Aug. 24; Gaz. vol. 217; p. 1094.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace. No. 1,161,133; Nov. 23; Gaz. vol. 220; p. 1090.
- Jacobs, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,162,065; Nov. 30; Gaz. vol. 220; p. 1464.
- Jacobs, David S., Jersey City, assignor to Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,162,066; Nov. 30; Gaz. vol. 220; p. 1464.
- Jacobs, David S., Jersey City, and N. E. Lewis, Plainfield, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Furnace. No. 1,161,134; Nov. 23; Gaz. vol. 220; p. 1090.
- Jacobs, Herbert H., Cedar Grove, N. J. Means for cutting and printing labels. No. 1,159,037; Nov. 2; Gaz. vol. 220; p. 216.
- Jacoby, Benjamin. (See King, Holmes, Jacoby, and Roush.)
- Jacoby, Benjamin. (See King, Jacoby, and Johnson.)
- Jacoby, Benjamin, and C. S. Johnson, assignors to The Marion Steam Shovel Company, Marion, Ohio. Combined boiler-support and cinder-chute. No. 1,159,497; Nov. 9; Gaz. vol. 220; p. 411.
- Jacoby, Charles, Croton-on-Hudson, N. Y. Rotary engine. No. 1,130,168; Mar. 2; Gaz. vol. 212; p. 113.
- Jacoby, Richard, Berlin, Germany, assignor to General Electric Company. Treating conductors. No. 1,142,172; June 8; Gaz. vol. 215; p. 419.
- Jacoby, Richard, Berlin, Germany, assignor to General Electric Company. Incandescent lamp. No. 1,154,514; Sept. 21; Gaz. vol. 218; p. 826.
- Jacoby, Vennie Y. (See Jacoby, William and V. Y.)
- Jacoby, William and V. Y., assignors of forty-nine one-hundredths to W. E. Reusse, Fulda, Minn. Automatic magazine-hammer. No. 1,163,409; Dec. 7; Gaz. vol. 221; p. 236.
- Jacovatos, Nicholas, New York, N. Y. Mixed-drinks dispenser. No. 1,151,270; Aug. 24; Gaz. vol. 217; p. 1204.
- Jacovatos, Nicholas, New York, N. Y. Cigarette-box. No. 1,158,132; Oct. 26; Gaz. vol. 219; p. 1100.
- Jacquart, Bernard, South River, N. J., and J. V. V. Booraem, New York, N. Y. Clay-cleaner. No. 1,136,676; Apr. 20; Gaz. vol. 213; p. 1000.
- Jacquart, Bernard, South River, N. J., and J. V. V. Booraem, New York, N. Y. Clay-cleaner. No. 1,136,677; Apr. 20; Gaz. vol. 213; p. 1001.
- Jacquemin, Eugene, Kent, Wash. Resilient tire. No. 1,141,641; June 1; Gaz. vol. 215; p. 196.
- Jacques, Damase, Detroit, Mich. Winch. No. 1,125,107; Jan. 19; Gaz. vol. 210; p. 749.
- Jacques, Frank W., Los Angeles, Cal. Safety-envelop. No. 1,142,712; June 8; Gaz. vol. 215; p. 606.
- Jacques, Wilfrid, Woonsocket, R. I. Ring-holding device. No. 1,135,807; Apr. 13; Gaz. vol. 213; p. 653.
- Jaderstrom, Louis W., Des Moines, Iowa. Check-protector. No. 1,154,248; Sept. 21; Gaz. vol. 218; p. 735.
- Jaekel, Adolph, assignor to Verges Manufacturing Company, Milwaukee, Wis. Friction-clutch. No. 1,139,765; May 18; Gaz. vol. 214; p. 792.
- Jaekel, Bernhard, Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Sulfur dye. No. 1,140,745; May 25; Gaz. vol. 214; p. 1170.
- Jaekel, Herman E., and G. O. Matter, Portland, Oreg.; said Matter assignor to said Jaekel. Tile-making machine. No. 1,146,168; July 13; Gaz. vol. 216; p. 438.
- Jaedlke, Henry, Evergreen, N. Y. Shoe. No. 1,132,096; Mar. 16; Gaz. vol. 212; p. 856.
- Jaeger, Fred W., Watertown, S. D. Child's carriage. No. 1,147,946; July 27; Gaz. vol. 216; p. 1106.
- Jaeger, Frederick. (See Martin and Jaeger.)
- Jaeger, George A., Hackensack, N. J. Tracker and tension device. No. 1,140,460; May 25; Gaz. vol. 214; p. 1072.
- Jaeger, Gustav A., Morrison, Ill. Pocket for pool-tables. No. 1,154,865; Sept. 28; Gaz. vol. 218; p. 973.
- Jaeger, Herman J., Weehawken, N. J. Metallic-filament lamp. No. 1,143,909; June 22; Gaz. vol. 215; p. 1086.
- Jaeger, Otto, assignor, by mesne assignments, to Industrial Service Company, Philadelphia, Pa. Coin-controlled apparatus. No. 1,151,791; Aug. 31; Gaz. vol. 217; p. 1428.
- Jaeger, Otto, assignor, by mesne assignments, to Industrial Service Company, Philadelphia, Pa. Dispensing apparatus. No. 1,151,792; Aug. 31; Gaz. vol. 217; p. 1429.
- Jaenecke Printing Ink Co., The. (See Posse, Gustav E., assignor.)
- Jaenisch, Ernst, Berlin, Germany. Construction of engine-cylinders. No. 1,132,937; Mar. 23; Gaz. vol. 212; p. 1214.
- Jaeschke, William. (See Davis and Jaeschke.)
- Jaffie, Robert, Wilkes-Barre, Pa. Horseshoe. No. 1,129,683; Feb. 23; Gaz. vol. 211; p. 1179.
- Jagenberg, Emil, Dusseldorf, Germany. Strip-feeding device for box-machines. No. 1,125,330; Jan. 19; Gaz. vol. 210; p. 829.
- Jagenberg, Emil, Dusseldorf, Germany. Machine for making and charging paper boxes. No. 1,125,331; Jan. 19; Gaz. vol. 210; p. 830.
- Jagenberg, Emil, Dusseldorf, Germany. Arrangement for severing single pieces from a bar of butter. No. 1,132,938; Mar. 23; Gaz. vol. 212; p. 1214.
- Jagenberg, Emil, Dusseldorf, Germany. Box-making machine. No. 1,136,339; Apr. 20; Gaz. vol. 213; p. 881.
- Jagenberg, Emil, Dusseldorf, Germany. Wrapping-machine. No. 1,140,039; May 18; Gaz. vol. 214; p. 890.
- Jagenberg, Emil, Dusseldorf, Germany. Labeling-machine. No. 1,143,968; June 22; Gaz. vol. 215; p. 1107.
- Jagenberg, Emil, Dusseldorf, Germany. Device for applying adhesives to cardboard sheets. No. 1,151,596; Aug. 31; Gaz. vol. 217; p. 1362.
- Jagenberg, Emil, Dusseldorf, Germany. Paper-feeding machine. No. 1,159,498; Nov. 9; Gaz. vol. 220; p. 412.
- Jagenberg, Emil, Dusseldorf, Germany, assignor to American Can Company. Machine for making necked-in paper-box bodies. No. 1,158,923; Nov. 2; Gaz. vol. 220; p. 180.
- Jager, Frank, Chicago, Ill. Car-roof. No. 1,126,638; Jan. 26; Gaz. vol. 210; p. 1333.
- Jager, Frank, Chicago, Ill. Car-door. No. 1,143,121; June 15; Gaz. vol. 215; p. 789.
- Jager, Frank, Chicago, Ill. Car-door. No. 1,143,122; June 15; Gaz. vol. 215; p. 790.
- Jager, Frank, Chicago, Ill. Metallic track-fastening. No. 1,143,123; June 15; Gaz. vol. 215; p. 790.
- Jagger, Peter B., assignor to The Improved Construction Company Limited, London, England. Machine for manufacturing concrete articles. No. 1,142,522; June 8; Gaz. vol. 215; p. 543.
- Jagger, Peter B., London, England, assignor to Quebec Savings and Trust Company, Montreal, Canada. Means for securing railway-rails to concrete sleepers. No. 1,157,986; Oct. 26; Gaz. vol. 219; p. 1048.
- Jagger, Peter B., London, England, assignor to Quebec Savings and Trust Company, Montreal, Canada. Mold for forming concrete pipes. No. 1,157,987; Oct. 26; Gaz. vol. 219; p. 1048.
- Jahn, Carl R., Schlebusch, assignor to Sprengstoff Actien Gesellschaft Carbonit, Hamburg, Germany. Denitration of waste acid. No. 1,149,585; Aug. 10; Gaz. vol. 217; p. 494.
- Jahn, Frederick G., assignor to International Postal Supply Company of New York, Brooklyn, N. Y. Trip for canceling-machines. No. 1,134,271; Apr. 6; Gaz. vol. 213; p. 69.
- Jahn, Georg, Arnswalde, Germany. Centrifugal machine for separating solid substances from liquids. No. 1,124,907; Jan. 12; Gaz. vol. 210; p. 643.
- Jahnke, Charles B. (See Hobart and Jahnke.)
- Jahnke, William G., Chicago, Ill. Child's automobile. No. 1,146,880; July 20; Gaz. vol. 216; p. 706.

- Jahnke, William G., Chicago, Ill. Steering means for velocipedes or the like. No. 1,162,364; Nov. 30; Gaz. vol. 220; p. 1568.
- Jainett, Frederick S., Presidio, Cal. Rail fastener and support. No. 1,129,397; Feb. 23; Gaz. vol. 211; p. 1082.
- Jakobsen, Jakob P., Copenhagen, and G. O. Krebs, Hellerup, near Copenhagen, Denmark. Gearing. No. 1,128,147; Feb. 9; Gaz. vol. 211; p. 561.
- Jakobsson, Herman G. (See Meigs and Jakobsson.)
- Jaksa, Joseph, assignor to Society of the Redemptorist Fathers, Grand Rapids, Mich. Host-cutter. No. 1,139,766; May 18; Gaz. vol. 214; p. 792.
- Jambor, Steve, assignor of one-fifth to A. Ajek, South Bethlehem, Pa. Rail-joint. No. 1,161,217; Nov. 23; Gaz. vol. 220; p. 1121.
- Jamer, Emma K. (See Jamer, William H., assignor.)
- Jamer, William H., assignor to E. K. Jamer, Brooklyn, N. Y. Game apparatus. No. 1,146,798; July 20; Gaz. vol. 216; p. 678.
- James B. Clow & Sons. (See Frost, Newland E., assignor.)
- James B. Hill Hat Company. (See Novoson and Hill, assignors.)
- James, Charles C., New York, N. Y. Stopping device for talking-machines. No. 1,139,421; May 11; Gaz. vol. 214; p. 635.
- James, David, Oak Park, and A. P. Peters, assignors to Essanay Film Manufacturing Company, Chicago, Ill. Photographic camera. No. 1,141,091; May 25; Gaz. vol. 214; p. 1290.
- James, Edward, Cleveland, Ohio. Mechanism for coiling wire. No. 1,139,872; May 18; Gaz. vol. 214; p. 830.
- James, Edward, assignor to The James Manufacturing Company, Cleveland, Ohio. Flexible-tube connection. No. 1,148,090; July 27; Gaz. vol. 216; p. 1159.
- James, Elisha, Brunswick, Md. Railway-spike-securing device. No. 1,159,842; Nov. 9; Gaz. vol. 220; p. 537.
- James, George D., Frances, Wash. Wire-cutter. No. 1,147,631; July 20; Gaz. vol. 216; p. 970.
- James, Henry D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,150,035; Aug. 17; Gaz. vol. 217; p. 718.
- James, Henry D., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric-circuit controller. No. 1,164,001; Dec. 14; Gaz. vol. 221; p. 488.
- James, Irvin L., Fargo, N. D. Strainer. No. 1,137,266; Apr. 27; Gaz. vol. 213; p. 1251.
- James, James F., Dalton, Ga. Stove. No. 1,127,254; Feb. 2; Gaz. vol. 211; p. 208.
- James, John, Wheatland, Okla. Grain-shock elevator. No. 1,124,453; Jan. 12; Gaz. vol. 210; p. 481.
- James, John, Woodlawn, Pa. Trolley-wheel mount. No. 1,149,447; Aug. 10; Gaz. vol. 217; p. 445.
- James, John S., Urbana, Ill. Cue-guide. No. 1,149,834; Aug. 10; Gaz. vol. 217; p. 585.
- James, Joseph, Baltimore, Md. Lithographing. No. 1,162,168; Nov. 30; Gaz. vol. 220; p. 1500.
- James L. Howard & Company. (See Howard, Frank E., assignor.)
- James Manufacturing Company, The. (See James, Edward, assignor.)
- James, Moses, Lansford, Pa. Shaker-plate for ore and coal washers. No. 1,142,434; June 8; Gaz. vol. 215; p. 512.
- James, Owen, Fall River, Mass. Display-sign for store-windows. No. 1,141,801; June 1; Gaz. vol. 215; p. 251.
- James, Richard R., Brooklyn, N. Y. Burner. No. 1,156,845; Oct. 12; Gaz. vol. 219; p. 555.
- James, Robert S., Seattle, Wash. Automobile-clock. No. 1,158,502; Nov. 2; Gaz. vol. 220; p. 32.
- James, Robert S., D. M. Anderson, and P. V. Allen, Seattle, Wash. Windlass attachment for automobiles. No. 1,165,510; Dec. 28; Gaz. vol. 221; p. 1094.
- James, Stephen J., Seaford, Del. Educational appliance. No. 1,161,685; Nov. 23; Gaz. vol. 220; p. 1285.
- James, William E., Carbon, W. Va., assignor of one-third to E. J. Beer, Cincinnati, Ohio, and one-third to E. F. Hocke, Carbon, W. Va. Window-screen. No. 1,138,295; May 4; Gaz. vol. 214; p. 200.
- James, William L., West Homestead, Pa. Trolley-wheel guard. No. 1,159,678; Nov. 9; Gaz. vol. 220; p. 476.
- Jameson, Alexander, assignor to F. R. Henshaw, trustee, Indianapolis, Ind. Controller for automatic musical instruments. No. 1,146,574; July 13; Gaz. vol. 216; p. 582.
- Jameson, Charles V., assignor of one-eighth to H. E. Weisert, one-eighth to A. Bissell, and three-eighths to J. Curtiss, Chicago, Ill. Player-piano. No. 1,137,404; Apr. 27; Gaz. vol. 213; p. 1301.
- Jamieson, Bertrand G., assignor of forty-nine one-hundredths to H. J. Richardson, Chicago, Ill. Disconnective switch. No. 1,164,524; Dec. 14; Gaz. vol. 221; p. 672.
- Jamieson, Fredrick C., Cleveland, Ohio. Electrical apparatus. No. 1,151,185; Aug. 24; Gaz. vol. 217; p. 1176.
- Jamieson, James A., Montreal, Quebec, Canada. Feed-control device for automatic weighing-machines. No. 1,148,845; Aug. 3; Gaz. vol. 217; p. 180.
- Jamieson, Joseph B., Jr., Fitchburg, Mass. Safety locking device. No. 1,162,238; Nov. 30; Gaz. vol. 220; p. 1524.
- Jamison, Samuel H., et al. (See Smith, David M., assignor.)
- Jamison, Samuel S., Saltsburg, Pa. Bilge-water extractor. No. 1,159,946; Nov. 9; Gaz. vol. 220; p. 574.
- Jamison, Walter K., and J. Christian, Indianapolis, Ind., assignors to Link-Belt Company, Chicago, Ill. Pin-annealing machine. No. 1,149,917; Aug. 10; Gaz. vol. 217; p. 616.
- Jamison, William W., Greensburg, Pa. Coal-loading device. No. 1,128,880; Feb. 16; Gaz. vol. 211; p. 863.
- Jamson, Henry, Catterick, England. Paint and making the same. No. 1,144,599; June 29; Gaz. vol. 215; p. 1355.
- Jancovich, Herman, Pittsburgh, Pa. Pneumatic tire. No. 1,164,190; Dec. 14; Gaz. vol. 221; p. 554.
- Janensch, Werner, Charlottenberg, Germany. Agitating and aerating substances. No. 1,123,542; Jan. 5; Gaz. vol. 210; p. 118.
- Janes, Clarence E., New York, N. Y. Sash-lock. No. 1,126,639; Jan. 26; Gaz. vol. 210; p. 1333.
- Janes, Frank J., et al. (See Barker, Cloyd K., assignor.)
- Janes, Jesse A., Metropolis, Ill. Automatic water-gage. No. 1,142,328; June 8; Gaz. vol. 215; p. 472.
- Janesville Machine Company, The. (See Krotz, Alvaro S., assignor.)
- Janicke, Gustavus A., Louisville, Ky. Telephone. No. 1,142,173; June 8; Gaz. vol. 215; p. 419.
- Janik, John, Plymouth, Pa. False-alarm-preventing device. No. 1,155,578; Oct. 5; Gaz. vol. 219; p. 88.
- Janisch, Maximilian P., assignor to U. S. Fibre Bottle Machinery Company, Milwaukee, Wis. Paper-bottle-forming machine. No. 1,134,272; Apr. 6; Gaz. vol. 213; p. 69.
- Janisch, Maximilian P., assignor to U. S. Fibre Bottle Mch. Co., Milwaukee, Wis. Closure for paper receptacles. No. 1,147,867; July 27; Gaz. vol. 216; p. 1078.
- Janisch, Maximilian P., assignor to U. S. Fibre Bottle Mch. Co., Milwaukee, Wis. Bottle-closure. No. 1,150,823; Aug. 17; Gaz. vol. 217; p. 994.
- Janisch, Maximilian P., assignor to U. S. Fibre Bottle Mch. Co., Milwaukee, Wis. Spinning and sealing. No. 1,155,734; Oct. 5; Gaz. vol. 219; p. 143.
- Janisch, Maximilian P., assignor to U. S. Fibre Bottle Machinery Company, Milwaukee, Wis. Spinning-head. No. 1,162,862; Dec. 7; Gaz. vol. 221; p. 45.
- Jankovits, Louis, New York, N. Y. Fire-escape. No. 1,160,175; Nov. 16; Gaz. vol. 220; p. 707.
- Janney & Company. (See Blue, Chilton W., assignor.)
- Janney, Reynold, New York, N. Y., assignor to The Waterbury Tool Company, New Britain, Conn. Hydraulic controlling mechanism. No. 1,131,704; Mar. 16; Gaz. vol. 212; p. 714.
- Janney, Robert E. L., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Coupling. No. 1,130,824; Mar. 9; Gaz. vol. 212; p. 376.
- Janney, Robert E. L., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Car-coupling. No. 1,135,527; Apr. 13; Gaz. vol. 213; p. 554.
- Janney, Robert E. L., Chicago, Ill., and E. P. Kinne, Alliance, Ohio, assignors to American Steel Foundries, New York, N. Y. Car-coupling. No. 1,124,908; Jan. 12; Gaz. vol. 210; p. 644.
- Janney, Robert E. L., Chicago, Ill., and E. P. Kinne, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill. Coupling. No. 1,131,139; Mar. 9; Gaz. vol. 212; p. 484.
- Janney, Robert E. L., Chicago, Ill., and E. P. Kinne, Alliance, Ohio, assignors to American Steel Foundries, New York, N. Y. Coupling-knuckle reinforcement. No. 1,135,528; Apr. 13; Gaz. vol. 213; p. 554.
- Janovisk, George J., Chrome, N. J. Automatic uncoupler for cars. No. 1,144,709; June 29; Gaz. vol. 215; p. 1393.
- Janowitz, Ellis J. (See Howe, George E., assignor.)
- Jansen, Bernard H., Cleveland, Ohio. Hot and cold water mixing valve. No. 1,134,273; Apr. 6; Gaz. vol. 213; p. 70.
- Jansen, Johannes. (See Blank, Heldenreich, and Jansen.)
- Jansen, Louis M. (See Stuewe and Jansen.)
- Janson, Andrew, Dallas, Tex. Apparatus for burning unburnt gas products. No. 1,132,660; Mar. 23; Gaz. vol. 212; p. 1112.
- Janson, Paul, Berlin, Germany. Change-speed gearing. No. 1,130,169; Mar. 2; Gaz. vol. 212; p. 113.
- Janssen, Friedrich. (See Heinrich and Janssen.)
- Janssen, Johannes. (See Blank, Heldenreich, and Janssen.)
- Janssen, Hendrik J. (See Stoffel and Janssen.)
- Janssen, Theodor B. G., Münster, Germany. Electric-current collector. No. 1,123,543; Jan. 5; Gaz. vol. 210; p. 119.
- Jansson, Bennett G., Saugus, assignor to Blake Signal and Manufacturing Company, Boston, Mass. Screw-driver. No. 1,162,928; Dec. 7; Gaz. vol. 221; p. 67.
- Jansson, Karl E. O., Flushing, N. Y., assignor, by mesne assignments, to Standard Plunger Elevator Company, Worcester, Mass. Hydraulic elevator. No. 1,136,140; Apr. 20; Gaz. vol. 213; p. 810.
- Jansson, Karl E. O., Flushing, N. Y., assignor, by mesne assignments, to Standard Plunger Elevator Company, Worcester, Mass. Hydraulic plunger-elevator. No. 1,136,678; Apr. 20; Gaz. vol. 213; p. 1001.

Alphabetical list of patentees—Continued.

- Jansson, Karl E. O., Flushing, N. Y., assignor, by mesne assignments, to Standard Plunger Elevator Company, Worcester, Mass. Hydraulic elevator. No. 1,159,038; Nov. 2; Gaz. vol. 220; p. 217.
- Jantsch, Franz, Gablonz, Austria-Hungary. Breech-closure for mortars and the like. No. 1,161,686; Nov. 23; Gaz. vol. 220; p. 1286.
- Japp, Henry. (See Hjort, Alf, assignor.)
- Jappe, Kurt W., Brooklyn, N. Y. Belting. No. 1,165,780; Dec. 28; Gaz. vol. 221; p. 1190.
- Jaques, Fernando O., Jr., Cranston, assignor to The Central Tool Company, Providence, R. I. Selective dental disk-cutter. No. 1,128,450; Feb. 16; Gaz. vol. 211; p. 714.
- Jaquish, Arthur, Ontario, Oreg. Valve. No. 1,139,290; May 11; Gaz. vol. 214; p. 588.
- Jaquith, Adelbert S., Boston, Mass. Device for applying metallic leaf. No. 1,150,121; Aug. 17; Gaz. vol. 217; p. 749.
- Jaquith, Adelbert S., Boston, assignor to G. C. Mitchell, Medfield, Mass. Swivel clench-arm. No. 1,155,818; Oct. 5; Gaz. vol. 219; p. 173.
- Jaraczewski, Léonie von, geb. Stern, Berlin, Germany. Production of a filter-stuff by the employment of coal or similar filter material. No. 1,147,991; July 27; Gaz. vol. 216; p. 1122.
- Jardine, James L., Penicuik, Scotland. Production of paper-pulp or cellulose from bamboo and the like. No. 1,143,401; June 15; Gaz. vol. 215; p. 889.
- Jardine, James L., Penicuik, Scotland. Preparing textile materials for bleaching. No. 1,143,543; June 15; Gaz. vol. 215; p. 936.
- Jargstorf, Julius E., New York, N. Y. Gas-burner and automatic cut-off therefor. No. 1,140,161; May 18; Gaz. vol. 214; p. 933.
- Jarnig, Andrew J., Seattle, Wash. Safety-elevator. No. 1,159,679; Nov. 9; Gaz. vol. 220; p. 476.
- Jarnigan, Thomas J., Denton, Tex. Churn. No. 1,129,493; Feb. 23; Gaz. vol. 211; p. 1116.
- Jarnuszkiewicz & Co., Piotrk. (See Jarnuszkiewicz, Chmielewski, Szczesny, and Chybyzński, assignors.)
- Jarnuszkiewicz, Piotr L., Chmielewski, S. Szczesny, and L. Chybyzński, assignors to Firm of P. Jarnuszkiewicz & Co., Warsaw, Russia. Disconnectible metal bedstead. No. 1,162,365; Nov. 30; Gaz. vol. 220; p. 1568.
- Jaros, Ladislav A., Chicago, Ill. Device used in administering anesthetics. No. 1,128,317; Feb. 16; Gaz. vol. 211; p. 669.
- Jarozs, Stanley, assignor of one-half to A. Grzezinski, Detroit, Mich. Fire-alarm guard. No. 1,150,945; Aug. 24; Gaz. vol. 217; p. 1094.
- Jarrett, C. L. (See Harris, William E., assignor.)
- Jarrett, William F., Carl Junction, Mo. Wagon-wheel. No. 1,155,154; Sept. 28; Gaz. vol. 218; p. 1075.
- Jarvey, Jacob, Billings, Mont. Combined shade-roller and curtain-pole support. No. 1,133,033; Mar. 23; Gaz. vol. 212; p. 1250.
- Jarvis, Thomas B., Kansas City, Mo. Water-heater. No. 1,161,216; Nov. 23; Gaz. vol. 220; p. 1121.
- Jarvis, Clarence E., West Springfield, assignor to R. Hetherington, Springfield, Mass. Brush. No. 1,152,180; Aug. 31; Gaz. vol. 217; p. 1563.
- Jarvis, Frank, Hauppauge, N. Y. Attachment for stirrups. No. 1,160,082; Nov. 9; Gaz. vol. 220; p. 619.
- Jarvis, Harold, Toronto, Ontario, Canada. Water-heater. No. 1,129,870; Mar. 2; Gaz. vol. 212; p. 13.
- Jarvis, Herbert C., Toronto, Ontario, Canada. Wall-paper roll. No. 1,154,022; Sept. 21; Gaz. vol. 218; p. 653.
- Jarvis, Marion, assignor of one-half to E. J. Schuler, Lathrop, Ohio. Wire-stretcher. No. 1,165,604; Dec. 28; Gaz. vol. 221; p. 1127.
- Jarvis, William N., et al. (See Watkins, Arthur G., assignor.)
- Jas, Clark, Jr., Electric Co. (See Willey, Charles E., assignor.)
- Jas. H. Matthews & Co. (See Matthews, James H., assignor.)
- Jas. H. Matthews & Co. (See Matthews, Thomas O., assignor.)
- Jasgur, Samuel, Brooklyn, N. Y. Attachment for window-shades. No. 1,136,340; Apr. 20; Gaz. vol. 213; p. 881.
- Jasinski, Wladyslaw, Indiana Harbor, Ind. Camp-stool cane. No. 1,145,994; July 13; Gaz. vol. 216; p. 376.
- Jaskiewicz, William, Lafayette, Colo. Stretcher-ambulance. No. 1,129,295; Feb. 23; Gaz. vol. 211; p. 1046.
- Jassey, Charles S., Edgewater, N. J. Expression-marking for player-piano music-rolls. No. 1,140,746; May 25; Gaz. vol. 214; p. 1170.
- Jaskowiak, Francis, Bismarck, N. D. Well-filter. No. 1,146,499; July 13; Gaz. vol. 216; p. 556.
- Jaubard, Leopold A., Toulouse, France. Seat for water-closets. No. 1,132,939; Mar. 23; Gaz. vol. 212; p. 1214.
- Javault, Robert, assignor to Société Française des Films & Cinématographes, "Eclair," Paris, France. Apparatus for developing and washing cinematographic films. No. 1,141,464; June 1; Gaz. vol. 215; p. 136.
- Jaworsky, John. (See Ogrissek and Jaworsky.)
- Jay, Edward G., Jr., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Measuring instrument. No. 1,150,600; Aug. 17; Gaz. vol. 217; p. 917.
- Jay, Rudolf, Leipzig, assignor to Leipziger Maschinenbau-Gesellschaft m. b. H., Leipzig-Sellerhausen, Germany. Clutch-actuating mechanism for riveting-machines. No. 1,137,058; Apr. 27; Gaz. vol. 213; p. 1174.
- Jay, Webb, Chicago, Ill. Priming apparatus for explosive-engines. No. 1,125,548; Jan. 19; Gaz. vol. 210; p. 906.
- Jay, Webb, Chicago, Ill. Liquid-fuel-feeding apparatus. No. 1,125,549; Jan. 19; Gaz. vol. 210; p. 906.
- Jay, Webb, Chicago, Ill. Liquid-supply system for explosive-engines. No. 1,132,273; Mar. 16; Gaz. vol. 212; p. 923.
- Jay, Webb, Chicago, Ill. Fuel-elevating device for automobile-engines. No. 1,132,940; Mar. 23; Gaz. vol. 212; p. 1215.
- Jay, Webb, Chicago, Ill. Liquid-elevating device for automobile-engines. No. 1,132,941; Mar. 23; Gaz. vol. 212; p. 1215.
- Jay, Webb, Chicago, Ill. Consolidated carburetor and vacuum-feed fuel-receptacle. No. 1,132,942; Mar. 23; Gaz. vol. 212; p. 1216.
- Jay, Webb, Chicago, Ill. Liquid-supply device. No. 1,132,943; Mar. 23; Gaz. vol. 212; p. 1217.
- Jay, Webb, Chicago, Ill. Fuel-feeding means for automobile-engines. No. 1,134,457; Apr. 6; Gaz. vol. 213; p. 136.
- Jay, Webb, Chicago, Ill. Fuel-feeding device for internal-combustion engines. No. 1,153,089; Sept. 7; Gaz. vol. 218; p. 257.
- Jay, Webb, Chicago, Ill. Liquid-feeding apparatus. No. 1,158,924; Nov. 2; Gaz. vol. 220; p. 180.
- Jay, William H., Lapland, S. D. Automatic gate. No. 1,165,180; Dec. 21; Gaz. vol. 221; p. 941.
- Jayme, George, Pittsburgh, Pa. Removing scale from boilers. No. 1,139,873; May 18; Gaz. vol. 214; p. 831.
- Jealous, Alwyne F., Rochdale, Mass. Carding-machine. No. 1,146,711; July 13; Gaz. vol. 216; p. 627.
- Jean, Robert E., assignor of one-half to W. R. Middleton, Unionville, Tenn. Work-carrier. No. 1,129,296; Feb. 23; Gaz. vol. 211; p. 1046.
- Jean, Wenceslas V., San Diego, Cal. Furnace. No. 1,146,626; July 13; Gaz. vol. 216; p. 599.
- Jeanjean, Norbert-J.-M.-L. (See Gargam, Gouget de Casteras, and Jeanjean.)
- Jeanne, Hippolyte, New York, N. Y., assignor to R. Webb, Bryn Mawr, Pa. Brush. No. 1,137,326; Apr. 27; Gaz. vol. 213; p. 1272.
- Jeannot, Mitchell J., Garden Valley, Idaho. Nut-lock. No. 1,145,486; July 6; Gaz. vol. 216; p. 179.
- Jeannot, Mitchell J., Garden Valley, Idaho. Bolt-lock. No. 1,166,220; Dec. 28; Gaz. vol. 221; p. 1346.
- Jeannotte, Joseph, Woonsocket, R. I. Stop-cock. No. 1,160,176; Nov. 16; Gaz. vol. 220; p. 707.
- Jeavons, Albert N., Cleveland, Ohio. Casing for vehicle-springs. No. 1,135,186; Apr. 13; Gaz. vol. 213; p. 436.
- Jeavons, William R., Cleveland, Ohio. Tank and gage therefor. No. 1,150,122; Aug. 17; Gaz. vol. 217; p. 749.
- Jeavons, William R., and A. R. Whittaker, Cleveland, Ohio. Oil-burner. No. 1,143,199; June 15; Gaz. vol. 215; p. 818.
- Jeavons, William R., and A. R. Whittaker, Cleveland, Ohio. Calking-machine. No. 1,152,513; Sept. 7; Gaz. vol. 218; p. 48.
- Jeavons, William R., and A. R. Whittaker, Cleveland, Ohio. Oven. No. 1,166,131; Dec. 28; Gaz. vol. 221; p. 1312.
- Jedel, Aaron, New York, N. Y. Fireworks and making same. No. 1,145,421; July 6; Gaz. vol. 216; p. 155.
- Jedel, Aaron, Newark, Del. Pyrotechnical device. No. 1,163,756; Dec. 14; Gaz. vol. 221; p. 404.
- Jeffares, William, Malin, Ireland. Two-stroke internal-combustion engine. No. 1,157,626; Oct. 19; Gaz. vol. 219; p. 857.
- Jefferies, Ebenezer A. W., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 1,152,514; Sept. 7; Gaz. vol. 218; p. 49.
- Jefferies, Ebenezer A. W., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 1,153,623; Sept. 14; Gaz. vol. 218; p. 485.
- Jefferies, Ebenezer A. W., and G. H. Isley, assignors to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 1,142,100; June 8; Gaz. vol. 215; p. 394.
- Jefferies, Fredrick L., Summit, Ill., assignor to Corn Products Refining Company. Apparatus for removing starch from settling-tables. No. 1,134,615; Apr. 6; Gaz. vol. 213; p. 194.
- Jefferson, Archie C., St. Paul, Minn. Reciprocating conveyer. No. 1,148,688; Aug. 3; Gaz. vol. 217; p. 74.
- Jefferson, Archie C., St. Paul, Minn. Shingle-sawing apparatus. No. 1,150,036; Aug. 17; Gaz. vol. 217; p. 719.
- Jefferson, Benjamin H., assignor to H. H. King, trustee, Chicago, Ill. Indicator alarm device. No. 1,145,591; July 6; Gaz. vol. 216; p. 214.
- Jefferson, Eugene D., Boston, Mass. Apparatus for treating fibrous materials. No. 1,128,451; Feb. 16; Gaz. vol. 211; p. 714.
- Jefferson, Eugene D., Boston, Mass. Apparatus for preparing paper-pulp. No. 1,129,984; Mar. 2; Gaz. vol. 212; p. 51.

- Jefferson, Herbert P., Boston, Mass. Vacuo-centrifugal fiber and fabric treating machine. No. 1,164,619; Dec. 14; Gaz. vol. 221; p. 702.
- Jefferson, William T., Chicago, Ill. Advertising-carton. No. 1,148,233; July 27; Gaz. vol. 216; p. 1208.
- Jeffery, Arthur J., Burks Falls, Ontario, Canada. Clothes-pin. No. 1,146,799; July 20; Gaz. vol. 216; p. 678.
- Jeffery, Harold L., and A. W. Wadsworth, Fort Thomas, Ky., assignors to The Wadsworth Watch Case Company. Bow-fastener. No. 1,127,255; Feb. 2; Gaz. vol. 211; p. 208.
- Jeffery, Harold L., and A. W. Wadsworth, Fort Thomas, Ky., assignors to The Wadsworth Watch Case Company. Bracelet. No. 1,130,405; Mar. 2; Gaz. vol. 212; p. 196.
- Jeffery, Harold L., and A. W. Wadsworth, Fort Thomas, Ky., assignors to The Wadsworth Watch Case Company. Bracelet. No. 1,160,616; Nov. 16; Gaz. vol. 220; p. 862.
- Jeffrey Manufacturing Co., The. (See Willson, Freeman R., Jr., assignor.)
- Jeffrey Manufacturing Company, The. (See Armstrong, Walter J., assignor.)
- Jeffrey Manufacturing Company, The. (See Bauroth, Walter J., assignor.)
- Jeffrey Manufacturing Company, The. (See Coseo, Frederick C., assignor.)
- Jeffrey Manufacturing Company, The. (See Dierdorff, Joseph F., assignor.)
- Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
- Jeffrey Manufacturing Company, The. (See Fisher, Dudley T., assignor.)
- Jeffrey Manufacturing Company, The. (See Francisco, George D., assignor.)
- Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
- Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
- Jeffrey Manufacturing Company, The. (See Liggett and Armstrong, assignors.)
- Jeffrey Manufacturing Company, The. (See Lynch, George E., assignor.)
- Jeffrey Manufacturing Company, The. (See Merrill, Edwin R., assignor.)
- Jeffrey Manufacturing Company, The. (See Miller, Luther O., assignor.)
- Jeffrey Manufacturing Company, The. (See Montgomery, William J., assignor.)
- Jeffrey Manufacturing Company, The. (See Mueller, George H., assignor.)
- Jeffrey Manufacturing Company, The. (See Newdick, Norton A., assignor.)
- Jeffrey Manufacturing Company, The. (See Norris and Marshall, assignors.)
- Jeffrey Manufacturing Company, The. (See Sands, Frederick G., assignor.)
- Jeffrey Manufacturing Company, The. (See Sessions, Frank L., assignor.)
- Jeffrey Manufacturing Company, The. (See Sessions and Fisher, assignors.)
- Jeffrey Manufacturing Company, The. (See Trotter, Walter F., assignor.)
- Jeffrey Manufacturing Company, The. (See Waxbom, Carl J. E., assignor.)
- Jeffrey, Max L., Muncie, Ind. Universal joint. No. 1,155,240; Sept. 28; Gaz. vol. 218; p. 1103.
- Jeffreys, William M., and W. H. Creben, assignors of one-half to H. W. Kerr and D. T. Murray, Youngstown, Ohio. Time-indicator. No. 1,131,244; Mar. 9; Gaz. vol. 212; p. 521.
- Jeffries, Nicholas J., Atlantic City, N. J. Binding-post. No. 1,146,881; July 20; Gaz. vol. 216; p. 707.
- Jeheber, Ernest. (See Haas and Jeheber.)
- Jelalian, Sarkis, Cranston, R. I. Sporting dirigible balloon. No. 1,137,212; Apr. 27; Gaz. vol. 213; p. 1230.
- Jelenko & Company, J. F. (See Aderer, Hugo, assignor.)
- Jelley, James G., Coventry, England. Saddle for use preferably on motor-cycles. No. 1,130,606; Mar. 2; Gaz. vol. 212; p. 268.
- Jellinek, Charles, assignor of one-third to said Jellinek, one-third to D. Stern, and one-third to D. Wald, New York, N. Y. Molding. No. 1,137,489; Apr. 27; Gaz. vol. 213; p. 1330.
- Jenchen, John. (See Lindner, Emil O., assignor.)
- Jenckes Knitting Machine Company. (See Moller, Kenneth, assignor.)
- Jenckes, Lawrence B. (See Hutchins and Jenckes.)
- Jenckes Spinning Company. (See Wood, William P., assignor.)
- Jenkins, Allen R., Durant, Miss. Pipe-coupling. No. 1,156,145; Oct. 12; Gaz. vol. 219; p. 312.
- Jenkins, Charles F., Washington, D. C. Coating with fusible material. No. 1,139,291; May 11; Gaz. vol. 214; p. 588.
- Jenkins, Charles F., Washington, D. C. Motion-picture apparatus. No. 1,152,515; Sept. 7; Gaz. vol. 218; p. 49.
- Jenkins, Charles F., Washington, D. C. View-changing device. No. 1,153,110; Sept. 7; Gaz. vol. 218; p. 263.
- Jenkins, Charles F., Washington, D. C. Picture-projecting apparatus. No. 1,153,163; Sept. 7; Gaz. vol. 218; p. 281.
- Jenkins, Charles F., Washington, D. C. Motion-picture apparatus. No. 1,153,164; Sept. 7; Gaz. vol. 218; p. 281.
- Jenkins, Charles F., Washington, D. C. Device for underwater exploration. No. 1,156,782; Oct. 12; Gaz. vol. 219; p. 532.
- Jenkins, Charles F., Washington, D. C. Motion-picture apparatus. No. 1,163,757; Dec. 14; Gaz. vol. 221; p. 404.
- Jenkins, Charles H. (See Renshaw and Jenkins.)
- Jenkins, Charles H., Belleville, N. J., assignor to Newman Clock Company, New York, N. Y. Key-cabinet for watchmen's time-registering systems. No. 1,126,019; Jan. 26; Gaz. vol. 210; p. 1107.
- Jenkins, Charles H., Belleville, N. J., assignor to Newman Clock Company, New York, N. Y. Pedometer attachment for watchmen's portable time-registers. No. 1,131,062; Mar. 9; Gaz. vol. 212; p. 458.
- Jenkins, Charles H., Belleville, N. J., assignor to Newman Clock Co., New York, N. Y. Watchman's time-register. No. 1,135,529; Apr. 13; Gaz. vol. 213; p. 555.
- Jenkins, Ebenezer C., Shrewsbury, Mass. Vehicle-brake. No. 1,145,592; July 6; Gaz. vol. 216; p. 215.
- Jenkins, Ed M., Italy, Tex. Sanitary mouthpiece. (Re-issue.) No. 13,942; July 6; Gaz. vol. 216; p. 316.
- Jenkins, George O. (See Perkins, Charles, assignor.)
- Jenkins, Henry C., London, England. Electrolytic cell. No. 1,150,370; Aug. 17; Gaz. vol. 217; p. 837.
- Jenkins, John L., assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Automatic scale. No. 1,154,402; Sept. 21; Gaz. vol. 218; p. 789.
- Jenkins Manufacturing Co. (See Leonard, James H., assignor.)
- Jenkins, R. E. Lee. (See Cardwell, Charles E., assignor.)
- Jenkins, Richard S. (See Malone and Jenkins.)
- Jenkins, Robert L. (See Jenkins, Wilton F. and R. L.)
- Jenkins, Samuel E., Richmond, Va. Apparatus for handling ashes, garbage, and other refuse. No. 1,143,278; June 13; Gaz. vol. 215; p. 845.
- Jenkins, Samuel M., Louisville, Ky. Lubricating apparatus. No. 1,163,410; Dec. 7; Gaz. vol. 221; p. 236.
- Jenkins, Thomas R., Jr. (See Richardson, Edro, assignor.)
- Jenkins, Ulysses S. (See Poindexter, William B., assignor.)
- Jenkins, Wilton F. and R. L., Richmond, Va. Fuel-mixing device for internal-combustion engines. No. 1,132,351; Mar. 16; Gaz. vol. 212; p. 950.
- Jenkins, Winslow L. (See McDougall, George F. A., assignor.)
- Jenkinson, Richard C. (See Shedd, Harry M., assignor.)
- Jenks, Willard E., Cherokee, Iowa. Mail-box. No. 1,149,940; July 20; Gaz. vol. 216; p. 728.
- Jenne, Henry S., assignor to J. G. Elbs, Rochester, N. Y. Egg-carrier. No. 1,128,148; Feb. 9; Gaz. vol. 211; p. 561.
- Jenner, Horace W., Sumner, Ill. Lock-nut. No. 1,150,197; Aug. 17; Gaz. vol. 217; p. 777.
- Jenney, Robert T., assignor to Hall Manufacturing Co., Monticello, Iowa. Vehicle-tongue draft appliance. No. 1,137,977; May 4; Gaz. vol. 214; p. 89.
- Jennings, Archer B., Meriden, Conn. Tool-handle. No. 1,144,710; June 29; Gaz. vol. 215; p. 1393.
- Jennings, Arthur B., Hazleton, Pa., assignor to International Steam Pump Company. Centrifugal and turbine pump. No. 1,127,997; Feb. 9; Gaz. vol. 211; p. 508.
- Jennings, Arthur L., Deep River, Conn. Auger bit and brace. No. 1,127,007; Feb. 2; Gaz. vol. 211; p. 121.
- Jennings Brothers Manufacturing Company, The. (See Pollard, Charles H., assignor.)
- Jennings, Charles A., Chicago, Ill., assignor to A. E. Nichols, Philadelphia, Pa. Apparatus for separating the solid matter from sewage. No. 1,149,650; Aug. 10; Gaz. vol. 217; p. 521.
- Jennings, Charles H. (See Robinson, Luther, assignor.)
- Jennings, Chester S., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Pneumatic despatch-tube apparatus. No. 1,130,518; Mar. 2; Gaz. vol. 212; p. 238.
- Jennings, Chester S., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,137,327; Apr. 27; Gaz. vol. 213; p. 1273.
- Jennings, Chester S., Brookline, Mass., assignor to The Lamson Company, Newark, N. J. Automatic pressure-controller. No. 1,132,777; Mar. 23; Gaz. vol. 212; p. 1155.
- Jennings, Chester S., assignor to The Lamson Company, Boston, Mass. Electric-motor control. No. 1,137,006; Apr. 27; Gaz. vol. 213; p. 1156.
- Jennings, Chester S., assignor to The Lamson Company, Boston, Mass. Despatch or conveyer system. No. 1,143,829; June 22; Gaz. vol. 215; p. 1059.
- Jennings, Chester S., assignor to The Lamson Company, Boston, Mass. Terminal for pneumatic-despatch circuits. No. 1,158,925; Nov. 2; Gaz. vol. 220; p. 181.
- Jennings, Emerson P., Jr., Lehighton, Pa. Roller-carriage. No. 1,142,435; June 8; Gaz. vol. 215; p. 513.
- Jennings, Emerson P., Jr., Lehighton, Pa. Ink-distributing device. No. 1,143,764; June 22; Gaz. vol. 215; p. 1037.

Alphabetical list of patentees—Continued.

- Jennings, Harry M., Utica, N. Y. Automobile-washer. No. 1,142,966; June 15; Gaz. vol. 215; p. 735.
- Jennings, Irving C., South Norwalk, Conn. Internal-combustion generator. No. 1,137,328; Apr. 27; Gaz. vol. 213; p. 1273.
- Jennings, James W., Providence, R. I., assignor to S. G. Mandallan, North Attleboro, Mass. Bag-frame. No. 1,162,927; Dec. 7; Gaz. vol. 221; p. 67.
- Jennings, Luther A., Burkesville, Ky. Lock-nut. No. 1,132,521; Mar. 16; Gaz. vol. 212; p. 1013.
- Jennings, Luther M. and M., Star, Va. Evaporator. No. 1,126,767; Feb. 2; Gaz. vol. 211; p. 36.
- Jennings, Marvin B., assignor of one-half to J. H. Middleton, Omaha, Ark. Car-unloading machine. No. 1,140,461; May 25; Gaz. vol. 214; p. 1072.
- Jennings, McKinley. (See Jennings, Luther M. and M.)
- Jennings, Victor H., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Bandoleer. No. 1,128,149; Feb. 9; Gaz. vol. 211; p. 562.
- Jennings, Victor H., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Tubular woven fabric with widening. No. 1,129,037; Feb. 16; Gaz. vol. 211; p. 920.
- Jennings, Victor H., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Producing woven-fabric receptacles. No. 1,130,170; Mar. 2; Gaz. vol. 212; p. 114.
- Jennings, Victor H., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Sheath or scabbard. No. 1,133,144; Mar. 23; Gaz. vol. 212; p. 1289.
- Jennings, Victor H., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven tube and weaving the same. No. 1,137,405; Apr. 27; Gaz. vol. 213; p. 1302.
- Jennings, Victor H., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Cartridge belt or carrier. No. 1,139,874; May 18; Gaz. vol. 214; p. 831.
- Jennings, Walter H., Smithfield, Pa. Fender. No. 1,137,627; Apr. 27; Gaz. vol. 213; p. 1376.
- Jennings, William M., *et al.* (See Finley, John T., Jr., assignor.)
- Jennison, Harry G., Toledo, Ohio. Impregnating ples. No. 1,146,501; July 13; Gaz. vol. 216; p. 557.
- Jensen, Aage, San Francisco, Cal. Apparatus for treating liquids. No. 1,156,361; Oct. 12; Gaz. vol. 219; p. 384.
- Jensen, Alexander V., Devils Slide, Utah. Loading-chute. No. 1,123,882; Jan. 5; Gaz. vol. 210; p. 233.
- Jensen, Alexander V., Devils Slide, Utah. Cement-packing machine. No. 1,148,780; Aug. 3; Gaz. vol. 217; p. 107.
- Jensen, Alexander V., Devils Slide, Utah. Sack-stretching machine. No. 1,156,482; Oct. 12; Gaz. vol. 219; p. 428.
- Jensen, Alexander V., Brooklyn, N. Y. Apparatus for making cement pipes. No. 1,134,202; Apr. 6; Gaz. vol. 213; p. 43.
- Jensen, Alexander V., Elizabeth, N. J. Apparatus for conveying and placing concrete. No. 1,142,567; June 8; Gaz. vol. 215; p. 558.
- Jensen, Andrew P., Ord, Nebr. Ratchet screw-cutter. No. 1,128,786; Feb. 16; Gaz. vol. 211; p. 830.
- Jensen, Carl M., assignor of one-half to S. C. Ditty, Lewis-town, Mont. Damper. No. 1,163,929; Dec. 14; Gaz. vol. 221; p. 464.
- Jensen, James R. C. (See Bauer, William C., assignor.)
- Jensen, Jens, Kolding, Denmark. Air-resistance-measuring gage for automobiles and similar vehicles. No. 1,162,366; Nov. 30; Gaz. vol. 220; p. 1568.
- Jensen, Jens K., Klützow, Pomerania, Germany. Arrangement for trimming clay pipes. No. 1,132,851; Mar. 23; Gaz. vol. 212; p. 1183.
- Jensen, Jim, Elk Horn, Iowa. Tongue-supporter. No. 1,136,341; Apr. 20; Gaz. vol. 213; p. 831.
- Jensen, John F., Union Hill, N. J. Non-refillable bottle. No. 1,133,803; Mar. 30; Gaz. vol. 212; p. 1561.
- Jensen, Joseph L., and N. A. Olson, Council Bluffs, Iowa. Wall construction. No. 1,151,952; Aug. 31; Gaz. vol. 217; p. 1483.
- Jensen, Karl F., South River, N. J., assignor to Hermann Aukam & Co., New York, N. Y. Machine for use in applying clamps to strips of fabric. No. 1,154,249; Sept. 21; Gaz. vol. 218; p. 735.
- Jensen, Lawrence H., St. Charles, Ill. Pump. No. 1,130,406; Mar. 2; Gaz. vol. 212; p. 196.
- Jensen, Louis T., Minneapolis, Minn. Speed-indicator. No. 1,125,332; Jan. 19; Gaz. vol. 210; p. 830.
- Jensen, Louis T., Minneapolis, Minn. Speed-indicator. No. 1,125,333; Jan. 19; Gaz. vol. 210; p. 830.
- Jensen, Niels P., Janesville, Wis. Bed attachment. No. 1,165,241; Sept. 28; Gaz. vol. 218; p. 1103.
- Jensen, Olaus, assignor of one-half to Olswang Bros. & Co., Seattle, Wash. Shoemaker's jack. No. 1,138,383; May 4; Gaz. vol. 214; p. 234.
- Jensen, Peter L., and E. S. Pridham, Napa, assignors to Commercial Wireless & Development Co., San Francisco, Cal. Telephone set. No. 1,148,781; Aug. 3; Gaz. vol. 217; p. 108.
- Jensen, Rasmus, Los Angeles, Cal. Water-vaporizer for carbureters. No. 1,163,930; Dec. 14; Gaz. vol. 221; p. 464.
- Jensen, Soren, assignor of one-half to O. T. Grover, Los Angeles, Cal. Pencil-sharpener. No. 1,130,294; Mar. 2; Gaz. vol. 212; p. 157.
- Jentz, William E., Jr., Platteville, Wis. Hay-rack ladder. No. 1,163,544; Dec. 7; Gaz. vol. 221; p. 282.
- Jephson, George S., East Orange, N. J. Sash-fastener. No. 1,129,572; Feb. 23; Gaz. vol. 211; p. 1143.
- Jepson, John W., Depew, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,134,338; Apr. 6; Gaz. vol. 213; p. 93.
- Jepson, John W., Depew, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,160,289; Nov. 16; Gaz. vol. 220; p. 745.
- Jepson, John W., Depew, N. Y., assignor to J. B. M. Electric Company. Engine-gearing. No. 1,148,478; July 27; Gaz. vol. 216; p. 1295.
- Jerger, Wilhelm, Sr., Villengen, and M. Weiss, Berlin, Germany; said Jerger, Sr., assignor to said Weiss. Electric pocket-lamp. No. 1,129,871; Mar. 2; Gaz. vol. 212; p. 13.
- Jerman, John R., Jr., Dillon, S. C. Rotary engine. No. 1,149,523; Aug. 10; Gaz. vol. 217; p. 472.
- Jernigan, J. W., *et al.* (See Clement, Edward, assignor.)
- Jerram, Arthur E. (See Gouldbourn, Bates, and Jerram.)
- Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Starting and stopping mechanism. No. 1,124,620; Jan. 12; Gaz. vol. 210; p. 542.
- Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Grinding-machine. No. 1,127,443; Feb. 9; Gaz. vol. 211; p. 313.
- Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lock-stitch sewing-machine. No. 1,150,123; Aug. 17; Gaz. vol. 217; p. 750.
- Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Chain-stitch shoe-sewing machine. No. 1,154,774; Sept. 23; Gaz. vol. 218; p. 944.
- Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,162,696; Nov. 30; Gaz. vol. 220; p. 1677.
- Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,162,697; Nov. 30; Gaz. vol. 220; p. 1677.
- Jerram, Arthur E., J. Gouldbourn, and A. Bates, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Heeling-machine. No. 1,157,689; Oct. 26; Gaz. vol. 219; p. 945.
- Jerzyk, John, Rainier, Ore. Stirrup. No. 1,130,607; Mar. 2; Gaz. vol. 212; p. 269.
- Jessen Button-Hole Machine Company. (See Jessen, James, assignor.)
- Jessen, James, assignor to Jessen Button-Hole Machine Company, Minneapolis, Minn. Buttonhole attachment for sewing-machines. No. 1,125,334; Jan. 19; Gaz. vol. 210; p. 831.
- Jessen, Theodor, Altona-Bahrenfeld, assignor to Blohm & Voss, Kommandit-Gesellschaft auf Aktien, Hamburg, Germany. Electric change-over switch. No. 1,152,516; Sept. 7; Gaz. vol. 218; p. 49.
- Jessup, George K. (See Murray and Jessup.)
- Jester, Elias T., trustee. (See Fulton, John S. S., assignor.)
- Jester, Marvin H., Denver, Colo., assignor to The M. H. Jester Investment Company. Perforated support for receiving stucco and other plastering materials. No. 1,123,304; Jan. 5; Gaz. vol. 210; p. 35.
- Jester, Marvin H., Denver, Colo., assignor to The M. H. Jester Investment Company. Supporting device for plaster-boards used in partition construction. No. 1,124,909; Jan. 12; Gaz. vol. 210; p. 644.
- Jester, Marvin H., Denver, Colo., assignor to The M. H. Jester Investment Company. Clip for securing plaster-boards to metal studding in partition construction. No. 1,125,235; Jan. 19; Gaz. vol. 210; p. 831.
- Jester, Marvin H., assignor to The M. H. Jester Investment Company, Denver, Colo. Metallic box-clip for plaster boards or blocks for use in partition-wall and ceiling construction. No. 1,126,020; Jan. 26; Gaz. vol. 210; p. 1107.
- Jester, Marvin H., assignor to The M. H. Jester Investment Company, Denver, Colo. Clip for the corners of partition-walls. No. 1,165,413; Dec. 28; Gaz. vol. 221; p. 1061.
- Jeter, Josiah A. and G. McIlroy, South Bellingham, Wash. Barrel-making machine. No. 1,147,509; July 20; Gaz. vol. 216; p. 927.
- Jett, George C., Gary, Ind. Tractor. No. 1,135,187; Apr. 13; Gaz. vol. 213; p. 437.
- Jewell Auto Device Equipment Company. (See Jewell, Charles M., assignor.)
- Jewell, Charles E., Auburn, N. Y., assignor to The Honeywell Heating Specialty Company, Wash., Ind. Time-controlled thermostat. No. 1,154,926; Sept. 28; Gaz. vol. 218; p. 995.
- Jewell, Charles M., Frankfort, Ind., assignor to Jewell Auto Device Equipment Company. Combined lighting-valve, primer, and auxiliary air-valve. No. 1,151,793; Aug. 31; Gaz. vol. 217; p. 1429.
- Jewell, Charles V., *et al.* (See Conti, Anthony S., assignor.)

Alphabetical list of patentees—Continued.

- Jewell, Earl, assignor of one-half to R. Carson, Bellaire, Ohio. Cable-hanger. No. 1,164,613; Dec. 14; Gaz. vol. 221; p. 701.
- Jewell Engineering Company. (See Jewell, William M., assignor.)
- Jewell, Fred A., Worthington, Ind. Tobacco-pipe. No. 1,127,256; Feb. 2; Gaz. vol. 211; p. 208.
- Jewell, Herbert S., Milwaukee, Wis. Cap for sealing folding boxes. No. 1,126,021; Jan. 26; Gaz. vol. 210; p. 1107.
- Jewell, Herbert S., Milwaukee, Wis. Sealing packages. No. 1,126,022; Jan. 26; Gaz. vol. 210; p. 1108.
- Jewell, Herbert S., Milwaukee, Wis. Sealing packages. No. 1,129,199; Feb. 23; Gaz. vol. 211; p. 1012.
- Jewell Manufacturing Company. (See Belden, David, assignor.)
- Jewell, William M., assignor to Chloride Process Company, Chicago, Ill. Electrolytic cell and maintaining the efficiency thereof. No. 1,145,593; July 6; Gaz. vol. 216; p. 215.
- Jewell, William M., assignor to Jewell Engineering Company, Chicago, Ill. Water filtration. No. 1,158,225; Oct. 26; Gaz. vol. 219; p. 1131.
- Jewell, William M., assignor to Jewell Engineering Company, Chicago, Ill. Filter. No. 1,158,226; Oct. 26; Gaz. vol. 219; p. 1132.
- Jewett, Franc J., New York, N. Y., assignor to H. W. Johns-Manville Company. Heat-insulating paper or paper-board. No. 1,164,941; Dec. 21; Gaz. vol. 221; p. 857.
- Jewett, Fred S., Laconia, N. H. Strip-fastener. No. 1,130,295; Mar. 2; Gaz. vol. 212; p. 158.
- Jewett, Israel D., St. Paul, Ind. Preserving rubber. No. 1,130,736; Mar. 9; Gaz. vol. 212; p. 347.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Handle and inlet-controlling-valve construction for pneumatic tools. No. 1,160,617; Nov. 16; Gaz. vol. 220; p. 862.
- Jiraneck, Louis A., assignor to Sanitary Seat Cover Apparatus Company, Birmamwood, Wis. Sanitary-seat-cover apparatus. No. 1,163,667; Dec. 14; Gaz. vol. 221; p. 370.
- Jirotko, Rohumil, Berlin, Germany. Feed mechanism for potato-planters. No. 1,139,292; May 11; Gaz. vol. 214; p. 589.
- Jirousek, Joseph F., assignor of one-half to B. F. Corday, Cleveland, Ohio. Cooling and air-circulating means for printing-press inkling-rolls. No. 1,134,744; Apr. 6; Gaz. vol. 213; p. 241.
- Jirousek, Joseph F., assignor of one-half to B. F. Corday, Cleveland, Ohio. Printer's sheet-receptacle. No. 1,144,133; June 22; Gaz. vol. 215; p. 1167.
- Jno. M. Shelton Egg Carrier Company, The. (See Shelton, John M., assignor.)
- Joachim, Benjamin, Newark, N. J., and B. Davidson, Los Angeles, Cal. Means for attaching collars and other neckwear to shirts. No. 1,139,293; May 11; Gaz. vol. 214; p. 589.
- Jobe, Hugh V., Roll, Okla. Cotton-chopping machine. No. 1,135,287; Apr. 13; Gaz. vol. 213; p. 470.
- Jobe, John S., Noblesville, Ind. Bolted bath-tub-foot fastener. No. 1,135,188; Apr. 13; Gaz. vol. 213; p. 437.
- Jobke, August F., Wilkinsburg, assignor of one-half to J. G. Burns, D. Bingham, K. Crumay, T. Higgins, and H. P. Gazzam, Pittsburgh, Pa. Means for forming zones of varying and variable strengths in magnetic fields. No. 1,132,016; Mar. 16; Gaz. vol. 212; p. 829.
- Jobke, August F., Wilkinsburg, assignor of one-half to J. G. Burns, D. Bingham, K. Crumay, T. Higgins, and H. P. Gazzam, Pittsburgh, Pa. Magnetic ore-separator. No. 1,157,543; Oct. 19; Gaz. vol. 219; p. 831.
- Jobst, Conrad, assignor to The Ames Bonner Company, Toledo, Ohio. Brush-making machine. No. 1,144,711; June 29; Gaz. vol. 215; p. 1394.
- Jobst, Conrad, assignor to The Ames Bonner Company, Toledo, Ohio. Brush-making machine. No. 1,144,712; June 29; Gaz. vol. 215; p. 1394.
- Joerin, Albert E. (See Joerin, Charles, Jr., and A. E.)
- Joerin, Charles, Jr., and A. E., Detroit, Mich. Heater-filter. No. 1,162,782; Dec. 7; Gaz. vol. 221; p. 18.
- Joerns Motor Manufacturing Company. (See Strand, Andrew, assignor.)
- Joffe, Nathan. (See Joffe and Mahle.)
- Joffe, Samuel R. and N., and L. F. Mahle, Rochester, N. Y.; said S. R. Joffe assignor to said N. Joffe. Non-refillable bottle. No. 1,128,452; Feb. 16; Gaz. vol. 211; p. 715.
- Joha, Norbert, Milwaukee, Wis. Measuring instrument. No. 1,142,436; June 8; Gaz. vol. 215; p. 513.
- Johanningmyer, Harry F., assignor to Frank Adam Electric Company, St. Louis, Mo. Knife-switch. No. 1,164,191; Dec. 14; Gaz. vol. 221; p. 554.
- Johannes, August. (See Stegemann and Johannes.)
- Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company, Transformer. No. 1,159,226; Nov. 2; Gaz. vol. 220; p. 284.
- Johannemann, Karl, Ferdinandgrube, assignor to J. Altmann, Kattowitz, Germany. Device for simultaneously cutting and closing hollow bricks. No. 1,131,705; Mar. 16; Gaz. vol. 212; p. 715.
- Johansen, Henry P. (See Joseph, Harry F., assignor.)
- Johansen, Michel, Cristiania, Norway. Press having revolving pressing-surfaces. No. 1,140,683; May 25; Gaz. vol. 214; p. 1149.
- Johanson, Emil G., assignor to S. A. Mellin, Chicago, Ill. Change-gearing. No. 1,128,684; Feb. 16; Gaz. vol. 211; p. 795.
- Johanson, Engelbright A., Seattle, Wash. Dish-washing machine. No. 1,155,930; Oct. 5; Gaz. vol. 219; p. 210.
- Johanson, Gustav H., Juniata, Pa. Filing device for tracings, maps, charts, &c. No. 1,134,616; Apr. 6; Gaz. vol. 213; p. 194.
- Johansson, Axel E., Stockholm, Sweden. Lubricating means for centrifugal separators and the like. No. 1,151,271; Aug. 24; Gaz. vol. 217; p. 1205.
- Johansson, Carl. (See Sundvik and Johansson.)
- Johansson, Edwin A., Trollhättan, Sweden. Condenser for zinc and lead vapors. No. 1,145,685; July 6; Gaz. vol. 216; p. 248.
- Johansson, Frans H., Karlstad, Sweden. Sawing-machine for short boards. No. 1,150,601; Aug. 17; Gaz. vol. 217; p. 918.
- Johansson, Gustav W., and J. V. M. Risberg, assignors to Aktiebolaget Baltic, Södertelje, Sweden. Gearing for centrifugal machines. No. 1,156,233; Oct. 12; Gaz. vol. 219; p. 339.
- John A. Roebling's Sons Company. (See Da Costa, Robert C., assignor.)
- John B. Morris Machine Tool Company, The. (See Beeler, Herbert L., assignor.)
- John Church Company, The. (See Cooper, Lee, and Meyer, assignors.)
- John Church Company, The. (See Lee, Cooper, and Meyer, assignors.)
- John Church Company, The. (See Leisch, Joseph, assignor.)
- John Douglas Company, The. (See McNeil, Daniel W., assignor.)
- John, Griffith. (See Baldwin and John.)
- John, Griffith, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator. No. 1,141,964; June 8; Gaz. vol. 215; p. 343.
- John, Griffith, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Inclined conveyer. No. 1,162,783; Dec. 7; Gaz. vol. 221; p. 18.
- John, Griffith, and D. L. Lindquist, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Automatic stop-motion. No. 1,159,587; Nov. 9; Gaz. vol. 220; p. 443.
- John Holland Gold Pen Company, The. (See Holland, John A., assignor.)
- John Shillito Company, The. (See Vosburgh, Charles C., assignor.)
- John Simmons Company. (See Kenny, John, assignor.)
- John Simmons Company. (See Noble, George W., assignor.)
- John W. Brown Manufacturing Company, The. (See Pfeiffer, Leo L., assignor.)
- John Waldron Co. (See Waldron, William H., assignor.)
- John Wood Manufacturing Company. (See Mauck and Howie, assignors.)
- John, Otto, Bautzen, Germany. Cutting-machine. No. 1,131,706; Mar. 16; Gaz. vol. 212; p. 715.
- John, Otto, assignor to Bautzner Industriewerk, Aktien-gesellschaft, Bautzen, Germany. Machine for cutting piles of paper. No. 1,143,765; June 22; Gaz. vol. 215; p. 1037.
- John, Otto, assignor to Bautzner Industriewerk, Aktien-gesellschaft, Bautzen, Germany. Machine for cutting piles of paper. No. 1,150,602; Aug. 17; Gaz. vol. 217; p. 918.
- John, Otto, assignor to Bautzner Industriewerk, Aktien-gesellschaft, Bautzen, Germany. Machine for cutting piles of paper. No. 1,159,389; Nov. 9; Gaz. vol. 220; p. 373.
- Johns, William F. (See Beerbower, George M., assignor.)
- Johns, Albert, Youngstown, Ohio. Tongs. No. 1,159,680; Nov. 9; Gaz. vol. 220; p. 477.
- Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
- Johns-Pratt Company, The. (See Hooker, Duncan C., assignor.)
- Johns-Pratt Company, The. (See Müller, Henry N., assignor.)
- Johns, William. (See Dillard and Johns.)
- Johnsgaard, Emil, Fairview, Mont. Automatic damper. No. 1,162,239; Nov. 30; Gaz. vol. 220; p. 1525.
- Johnson, Abraham C., Omaha, Nebr. Tumbling-barrel. No. 1,155,579; Oct. 5; Gaz. vol. 219; p. 88.
- Johnson Acetylene Gas Company. (See Johnson, John A., assignor.)
- Johnson Acetylene Gas Company. (See Johnson, John A. and T. N., assignors.)
- Johnson, Adison J., and R. L. Skinner, Bethany, Mo. Wrist-watch holder. No. 1,153,111; Sept. 7; Gaz. vol. 218; p. 264.
- Johnson, Adolf F., El Campo, Tex. Auto power-transmitting jack. No. 1,153,791; Sept. 14; Gaz. vol. 218; p. 543.
- Johnson, Albert. (See Fangel, John P., assignor.)
- Johnson, Albert, New York, N. Y. Car-window cleaner. No. 1,134,861; Apr. 6; Gaz. vol. 213; p. 279.

Alphabetical list of patentees—Continued.

- Johnson, Albert, Coleman, Alberta, Canada. Automatic train-stop. No. 1,140,268; May 18; Gaz. vol. 214; p. 968.
- Johnson, Albert E., Northfield, Minn. Pump. No. 1,165,261; Dec. 21; Gaz. vol. 221; p. 969.
- Johnson, Albert H., assignor to National Electrical Supply Company, Washington, D. C. Transmitting apparatus for wireless telegraphy. No. 1,145,066; July 6; Gaz. vol. 216; p. 34.
- Johnson, Alfred C. (See Calkins and Johnson.)
- Johnson, Alfred C., Winters, Cal. Traction-engine. No. 1,153,112; Sept. 7; Gaz. vol. 218; p. 264.
- Johnson, Alfred C., Winters, assignor to W. J. Benson, San Jose, Cal. Gearing. No. 1,149,160; Aug. 3; Gaz. vol. 217; p. 237.
- Johnson, Alfred W., Chicago, Ill. Fruit-picker. No. 1,134,862; Apr. 6; Gaz. vol. 213; p. 280.
- Johnson, Alva C., Dubuque, Iowa. Land-drain. No. 1,140,903; May 25; Gaz. vol. 214; p. 1227.
- Johnson, Alvin L., and A. O. Alsten, assignors of one-fourth to H. C. Goulding and one-fourth to J. A. Alsten, Worcester, Mass. Pneumatic core for repairing tires. No. 1,148,171; July 27; Gaz. vol. 216; p. 1188.
- Johnson, Andrew. (See Kellogg and Johnson.)
- Johnson, Andrew L., Winnipeg, Manitoba, assignor to Ames Holden McCready, Limited, Montreal, Quebec, Canada. Skating and hockey boot. No. 1,139,530; May 18; Gaz. vol. 214; p. 709.
- Johnson, Andrew M., Indianapolis, Ind. Automatic grease-cup. No. 1,161,313; Nov. 23; Gaz. vol. 220; p. 1156.
- Johnson, Andrew P., Detroit, Mich. Wire-tightener. No. 1,157,110; Oct. 19; Gaz. vol. 219; p. 678.
- Johnson, Anton E., Cambridge, Minn. Bean-sorting machine. No. 1,148,589; Aug. 3; Gaz. vol. 217; p. 38.
- Johnson, Arvid, North Bend, Oreg. Fountain glue-spreader. No. 1,155,420; Oct. 5; Gaz. vol. 219; p. 34.
- Johnson, August, Boring, Oreg. Wagon-brake. No. 1,124,744; Jan. 12; Gaz. vol. 210; p. 585.
- Johnson, August, Nebraska City, Nebr. Making revetment-mats. No. 1,166,050; Dec. 28; Gaz. vol. 221; p. 1282.
- Johnson, August E., and C. Nelson, Elgin, Ill. Operating mechanism for windmills. No. 1,148,172; July 27; Gaz. vol. 216; p. 1189.
- Johnson, August G. (See Adams and Johnson.)
- Johnson, Augustus H. W., deceased; L. H. Johnson, executrix, Larchmont, N. Y. Pulsometer. No. 1,135,189; Apr. 13; Gaz. vol. 213; p. 438.
- Johnson, Augustus M., Jamaica, N. Y. Blower-cleaner. No. 1,140,462; May 25; Gaz. vol. 214; p. 1075.
- Johnson, Austin C., Chicago, Ill., assignor, by mesne assignments, to Production Meter Company. Metal-working switch. No. 1,136,233; Apr. 20; Gaz. vol. 213; p. 843.
- Johnson Automatic Sealer Co. (See Johnson, Harry L., assignor.)
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Cal. Apparatus for cutting and applying ring-liners to the flange of can ends. No. 1,162,169; Nov. 30; Gaz. vol. 220; p. 1500.
- Johnson, Barnet M., Burlington, Colo. Metallic railway-tie and fastening. No. 1,162,067; Nov. 30; Gaz. vol. 220; p. 1465.
- Johnson, Bazel L., Elkin, N. C. Honeycomb-frame. No. 1,164,192; Dec. 14; Gaz. vol. 221; p. 554.
- Johnson, Burdette H. (See Ryrle, Robert A., assignor.)
- Johnson, Callender L. (See Guthrie and Johnson.)
- Johnson, Carl, Cheakam, British Columbia, Canada. Aeroplane. No. 1,144,847; June 29; Gaz. vol. 215; p. 1442.
- Johnson, Carl, Chicago, Ill. Acetylene-torch. No. 1,147,403; July 20; Gaz. vol. 216; p. 891.
- Johnson, Carl F., Milwaukee, Wis. Time-controlled device. No. 1,162,171; Nov. 30; Gaz. vol. 220; p. 1502.
- Johnson, Carl F., assignor to Johnson Service Company, Milwaukee, Wis. Automatic control device. No. 1,162,170; Nov. 30; Gaz. vol. 220; p. 1501.
- Johnson, Carl V., assignor to Indispensable Mfg. Co., Goldfield, Nev. Winding device for drop-lights. No. 1,136,533; Apr. 20; Gaz. vol. 213; p. 950.
- Johnson, Charles, Chicago, Ill. Receptacle. No. 1,149,266; Aug. 10; Gaz. vol. 217; p. 380.
- Johnson, Charles, San Jose, Cal. Cultivator. No. 1,162,068; Nov. 30; Gaz. vol. 220; p. 1465.
- Johnson, Charles, Peoria, Ill. Wall-pipe for furnaces. No. 1,164,354; Dec. 14; Gaz. vol. 221; p. 612.
- Johnson, Charles A., Webster, S. D. Chair. No. 1,139,183; May 11; Gaz. vol. 214; p. 554.
- Johnson, Charles A., Unionville, Conn. Metal-bending machine. No. 1,161,864; Nov. 30; Gaz. vol. 220; p. 1393.
- Johnson, Charles E., assignor to Dust Sprayer Manufacturing Company, Kansas City, Mo. Dust-spraying machine. No. 1,135,288; Apr. 13; Gaz. vol. 213; p. 470.
- Johnson, Charles G., assignor to Warner Brothers Company, Bridgeport, Conn. Buckle. No. 1,140,040; May 18; Gaz. vol. 214; p. 890.
- Johnson, Charles H., Sacramento, Cal. Game-board. No. 1,147,173; July 20; Gaz. vol. 216; p. 809.
- Johnson, Charles H., Boylston, and G. E. Johnson, Worcester, Mass. Signal system. No. 1,163,346; Dec. 7; Gaz. vol. 221; p. 215.
- Johnson, Charles J. (See Fuqua and Johnson.)
- Johnson, Charles J., Chicago, Ill. Pneumatic action. No. 1,157,398; Oct. 19; Gaz. vol. 219; p. 781.
- Johnson, Charles J., assignor to Johnson Gas Appliance Company, Cedar Rapids, Iowa. Automatic tubing-support. No. 1,126,673; Jan. 26; Gaz. vol. 210; p. 1345.
- Johnson, Charles J., assignor to Johnson Gas Appliance Company, Cedar Rapids, Iowa. Adjustable-combustion-chamber furnace. No. 1,126,674; Jan. 26; Gaz. vol. 210; p. 1345.
- Johnson, Charles J., Bloomfield, N. J., assignor, by mesne assignments, to General Electric Company. Machine for making tubing. No. 1,129,398; Feb. 23; Gaz. vol. 211; p. 1082.
- Johnson, Charles L., San Francisco, Cal. Shredder-cylinder. No. 1,150,198; Aug. 17; Gaz. vol. 217; p. 777.
- Johnson, Charles L., assignor to The Champion Chemical Company, Springfield, Ohio. Lock for grave-vaults. No. 1,131,522; Mar. 9; Gaz. vol. 212; p. 617.
- Johnson, Charles S. (See Jacoby and Johnson.)
- Johnson, Charles S. (See King, Jacoby, and Johnson.)
- Johnson, Charles S., Dallas, Tex. Elevator signal system. No. 1,127,008; Feb. 2; Gaz. vol. 211; p. 121.
- Johnson, Charley L., San Diego, Cal. Merry-go-round. No. 1,127,361; Feb. 2; Gaz. vol. 211; p. 242.
- Johnson, Charles M., Minneapolis, Minn. Folding box. No. 1,137,759; May 4; Gaz. vol. 214; p. 13.
- Johnson, Chester F., Detroit, Mich. Temperature-controlled valve. No. 1,127,627; Feb. 9; Gaz. vol. 211; p. 375.
- Johnson, Chester F., Detroit, Mich. Circulating system for internal-combustion engines. No. 1,145,995; July 13; Gaz. vol. 216; p. 376.
- Johnson, Chester F., Detroit, Mich. Hood for motor-vehicles. No. 1,147,801; July 27; Gaz. vol. 216; p. 1055.
- Johnson, Chris P., assignor to Johnson Power Washer Co., San Francisco, Cal. Transmission-gearing. No. 1,150,433; Aug. 17; Gaz. vol. 217; p. 858.
- Johnson, Clinton A., assignor to Johnson Compound Gas Engine Co., Chicago, Ill. Explosive-engine. No. 1,150,199; Aug. 17; Gaz. vol. 217; p. 778.
- Johnson, Clinton A., assignor to Johnson Compound Gas Engine Co., Chicago, Ill. Explosive-engine. No. 1,150,200; Aug. 17; Gaz. vol. 217; p. 778.
- Johnson, Clinton L., Rockford, Ill. Valve mechanism. No. 1,131,707; Mar. 16; Gaz. vol. 212; p. 715.
- Johnson Compound Gas Engine Co. (See Johnson, Clinton A., assignor.)
- Johnson, Conrad A., Jamestown, N. Y. Sheet-metal frame. (Reissue.) No. 13,987; Sept. 21; Gaz. vol. 218; p. 857.
- Johnson, Conrad J., Correctionville, Iowa. Wire-pliers attachment. No. 1,147,510; July 20; Gaz. vol. 216; p. 927.
- Johnson, Conrad T. (See Larson, Henry A., assignor.)
- Johnson, Curtis, Prescott, Iowa. Harness attachment. No. 1,157,544; Oct. 19; Gaz. vol. 219; p. 831.
- Johnson, David W. (See Grosvold, Frederick E., assignor.)
- Johnson, Earl. (See Thomas, Isaiah F., assignor.)
- Johnson, Edward, Port Allegany, Pa. Keyless lock. No. 1,150,603; Aug. 17; Gaz. vol. 217; p. 918.
- Johnson, Edward, Cincinnati, Ohio. Cafemenial belt. No. 1,155,659; Oct. 5; Gaz. vol. 219; p. 116.
- Johnson, Edward A., Enid, Okla. Shears. No. 1,124,025; Jan. 5; Gaz. vol. 210; p. 280.
- Johnson, Edward E., St. Paul, Minn. Tube-forming machine. No. 1,141,712; June 1; Gaz. vol. 215; p. 222.
- Johnson, Edward E., St. Paul, Minn. Wire grooving and milling machine. No. 1,141,713; June 1; Gaz. vol. 215; p. 222.
- Johnson, Edward F., Pittsfield, Mass. Valve. No. 1,131,382; Mar. 9; Gaz. vol. 212; p. 568.
- Johnson, Effie E., Chicago, Ill. Transfer device. No. 1,129,573; Feb. 23; Gaz. vol. 211; p. 1143.
- Johnson, Eldridge R., Philadelphia, Pa., and W. N. Dennison, Camden, N. J., assignors to Victor Talking Machine Company. Talking-machine. No. 1,146,260; July 13; Gaz. vol. 216; p. 470.
- Johnson, Eldridge R., Merion, Pa., and J. C. English, Camden, N. J., assignors to Victor Talking Machine Company. Talking-machine. No. 1,165,414; Dec. 28; Gaz. vol. 221; p. 1062.
- Johnson, Elmer, Claremont, S. D. Steering attachment for traction-engines. No. 1,131,523; Mar. 9; Gaz. vol. 212; p. 617.
- Johnson, Elmer H., Los Angeles, Cal., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,127,628; Feb. 9; Gaz. vol. 211; p. 376.
- Johnson, Elza D., and G. A. Cathey, Klamath Falls, Oreg. Electrical heater. No. 1,124,910; Jan. 12; Gaz. vol. 210; p. 644.
- Johnson, Eric T., and G. A. Lee, Omaha, Nebr. Oil-burner. No. 1,164,525; Dec. 14; Gaz. vol. 221; p. 672.
- Johnson, Ernest W., Little Falls, Minn. Runner for baby-carriages. No. 1,154,991; Sept. 28; Gaz. vol. 218; p. 1017.
- Johnson, F. S. (See Hunter, Lloyd T., assignor.)
- Johnson, Felix G., Clearmont, Mo. Furnace. No. 1,163,014; Dec. 7; Gaz. vol. 221; p. 98.
- Johnson, Floyd J., Duluth, Minn. Kerosene-burner. No. 1,124,026; Jan. 5; Gaz. vol. 210; p. 281.

- Johnson, Francis M., Chicago, Ill. Track device. No. 1,162,863; Dec. 7; Gaz. vol. 221; p. 46.
- Johnson, Francis T., Chicago, Ill. Clothes-drier. No. 1,128,318; Feb. 16; Gaz. vol. 211; p. 670.
- Johnson, Francis T., Chicago, Ill. Ironing-board. No. 1,133,145; Mar. 23; Gaz. vol. 212; p. 1289.
- Johnson, Frank, Detroit, Mich. Speed-changing mechanism. No. 1,147,868; July 27; Gaz. vol. 216; p. 1079.
- Johnson, Frank, Detroit, Mich. Gear-shifting mechanism. No. 1,156,405; Oct. 12; Gaz. vol. 219; p. 401.
- Johnson, Frank A., Danville, Ill. Device for placing electric globes in sockets. No. 1,128,453; Feb. 16; Gaz. vol. 211; p. 715.
- Johnson, Frank A., Dunellen, N. J. Feed device for stencil-cutting machines. No. 1,138,759; May 11; Gaz. vol. 214; p. 402.
- Johnson, Frank A., Dunellen, N. J., assignor to Signature Company, New York, N. Y. Multiple-writing machine. No. 1,130,087; Mar. 2; Gaz. vol. 212; p. 85.
- Johnson, Frank A., assignor of one-half to C. B. Vail, Danville, Ill. Switch-throwing device. No. 1,133,146; Mar. 23; Gaz. vol. 212; p. 1290.
- Johnson, Frank A., assignor of one-half to C. B. Vail, Danville, Ill. Switch-throwing device. No. 1,136,809; Apr. 20; Gaz. vol. 213; p. 1048.
- Johnson, Frank E. (See Vanderhoef and Johnson.)
- Johnson, Frank W., assignor of one-fourth to Bestwall Manufacturing Company, Chicago, Ill. Cutting-machine. No. 1,130,979; Mar. 9; Gaz. vol. 212; p. 429.
- Johnson, Fred, assignor of one-half to E. Anderson, Kewanee, Ill. Shoe-stretcher. No. 1,165,605; Dec. 28; Gaz. vol. 221; p. 1128.
- Johnson, Frederick H. (See Hadden and Johnson.)
- Johnson, Garrett P., Rochester, N. Y. Return-torpedo. No. 1,152,640; Sept. 7; Gaz. vol. 218; p. 96.
- Johnson Gas Appliance Company. (See Johnson, Charles J., assignor.)
- Johnson, George, *et al.* (See Worrell, Robert H., assignor.)
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Manufacturing a draft-yoke for railway-cars. No. 1,125,108; Jan. 19; Gaz. vol. 210; p. 749.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,125,109; Jan. 19; Gaz. vol. 210; p. 749.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Steel platform for wood-sill passenger-equipment cars. No. 1,128,319; Feb. 16; Gaz. vol. 211; p. 670.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-yoke and draw-bar connection in railway draft-rigging. No. 1,128,320; Feb. 16; Gaz. vol. 211; p. 670.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,128,321; Feb. 16; Gaz. vol. 211; p. 671.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,128,322; Feb. 16; Gaz. vol. 211; p. 671.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,013; Apr. 20; Gaz. vol. 213; p. 767.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Packing for refrigerator-doors. No. 1,139,038; May 11; Gaz. vol. 214; p. 503.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,139,875; May 18; Gaz. vol. 214; p. 831.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,140,162; May 18; Gaz. vol. 214; p. 933.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Packing for refrigerator-doors. No. 1,143,049; June 15; Gaz. vol. 215; p. 764.
- Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,148,173; July 27; Gaz. vol. 216; p. 1189.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,153,792; Sept. 14; Gaz. vol. 218; p. 544.
- Johnson, George E. (See Johnson, Charles H. and G. E.)
- Johnson, George H., Rockford, Ill. Door-lock. No. 1,165,102; Dec. 21; Gaz. vol. 221; p. 914.
- Johnson, George T. (See Whitridge and Johnson.)
- Johnson, George T., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Cast-metal yoke for railway draft mechanism. No. 1,153,793; Sept. 14; Gaz. vol. 218; p. 544.
- Johnson, George T., and G. M. Murphy, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Car-coupling. No. 1,128,987; Feb. 16; Gaz. vol. 211; p. 902.
- Johnson, George W., Chicago, Ill. Mold. No. 1,128,150; Feb. 9; Gaz. vol. 211; p. 562.
- Johnson, Gudmundur, Glenboro, Manitoba, Canada. Shocking-machine. No. 1,130,737; Mar. 9; Gaz. vol. 212; p. 347.
- Johnson, Gustaf A., Alameda, and P. Pedersen, San Francisco, Cal. Advertising apparatus. No. 1,132,852; Mar. 23; Gaz. vol. 212; p. 1133.
- Johnson, Gustaf W. (See Hays and Johnson.)
- Johnson, Gustave A., Newark, N. J. Metallic molding. No. 1,141,188; June 1; Gaz. vol. 215; p. 35.
- Johnson, Gustave A., Newark, N. J. Mechanism for winding insulated electric cables. No. 1,159,947; Nov. 9; Gaz. vol. 220; p. 575.
- Johnson, Hans C., Fort Bragg, Cal. Apparatus for drying sawdust. No. 1,162,488; Nov. 30; Gaz. vol. 220; p. 1610.
- Johnson, Hans O., Sacramento, Cal. Safety appliance for vehicles. No. 1,129,985; Mar. 2; Gaz. vol. 212; p. 52.
- Johnson, Harry A., and V. J. Pearson, Piper City, Ill. Tongue-supporter. No. 1,142,578; June 8; Gaz. vol. 215; p. 561.
- Johnson, Harry C., and E. M. Wade; said Johnson assignor to The Lang Pen Company Limited, Liverpool, England. Fountain or reservoir pen. No. 1,124,454; Jan. 12; Gaz. vol. 210; p. 481.
- Johnson, Harry D., Jr., South Bend, Ind. Locking mechanism for dump-wagons. No. 1,127,444; Feb. 9; Gaz. vol. 211; p. 314.
- Johnson, Harry L., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Carton-sealing machine. No. 1,132,586; Mar. 23; Gaz. vol. 212; p. 1083.
- Johnson, Harry T., deceased, New York, N. Y.; N. F. Johnson, administratrix. Reducing coke to produce battery-carbons. No. 1,141,117; June 1; Gaz. vol. 215; p. 9.
- Johnson, Harry T., deceased, New York, N. Y.; N. F. Johnson, administratrix. Kiln or furnace for treatment of carbonaceous materials. No. 1,141,118; June 1; Gaz. vol. 215; p. 10.
- Johnson, Helge J. M., and A. G. Anderson, Minneapolis, Minn. Friction-clutch. No. 1,161,314; Nov. 23; Gaz. vol. 220; p. 1156.
- Johnson, Henry, and A. C. Hollingworth; said Johnson assignor to M. O. Goble, Beatrice, Nebr. Egg-candler. No. 1,141,062; May 25; Gaz. vol. 214; p. 1281.
- Johnson, Henry E. (See Johnson, John M. and H. E.)
- Johnson, Henry H., Summit, N. J. Container for goods in transit. No. 1,154,775; Sept. 28; Gaz. vol. 218; p. 945.
- Johnson, Henry J., North Attleboro, Mass. Box-cover fastener. No. 1,123,544; Jan. 5; Gaz. vol. 210; p. 119.
- Johnson, Henry O., Virginia, Minn. Pneumatic tire. No. 1,158,227; Oct. 26; Gaz. vol. 219; p. 1132.
- Johnson, Henry P. (See McClure and Johnson.)
- Johnson, Henry P., assignor of one-half to G. G. Jordan, Columbus, Ga. Gas-engine-valve-grinding tool. No. 1,135,585; Apr. 13; Gaz. vol. 213; p. 575.
- Johnson, Henry P., assignor of one-half to G. G. Jordan, Columbus, Ga. Tool for compressing tappet-valve springs. No. 1,135,586; Apr. 13; Gaz. vol. 213; p. 576.
- Johnson, Henry T. (See Bittlestone and Johnson.)
- Johnson, Henry W., Ocala, Fla. Camera. No. 1,156,362; Oct. 12; Gaz. vol. 219; p. 385.
- Johnson, Horace, and J. Ogg, Pabala, Hawaii. Liming apparatus. No. 1,126,222; Jan. 26; Gaz. vol. 210; p. 1183.
- Johnson, Hugh J., and J. A. Mosal, Jackson, Miss. Nut-lock. No. 1,136,234; Apr. 20; Gaz. vol. 213; p. 843.
- Johnson, Israel J., and H. McClelland, Redding, Cal. Rotary pump. No. 1,143,200; June 15; Gaz. vol. 215; p. 818.
- Johnson, Iver, Vancouver, British Columbia, Canada, assignor to N. Cook, Seattle, Wash. Clothes-line pulley. No. 1,143,910; June 22; Gaz. vol. 215; p. 1086.
- Johnson, James A., assignor of one-half to E. D. Brown, Stockville, Nebr. Train signaling apparatus. No. 1,137,628; Apr. 27; Gaz. vol. 213; p. 1376.
- Johnson, James B., assignor to Springfield Metal Furring Company, Springfield, Mass. Metallic building construction. No. 1,159,039; Nov. 2; Gaz. vol. 220; p. 217.
- Johnson, James H., Washington, D. C. Label. No. 1,165,781; Dec. 23; Gaz. vol. 221; p. 1190.
- Johnson, James P., Council Bluffs, Iowa. Back-rest for motor-cycles. No. 1,139,184; May 11; Gaz. vol. 214; p. 554.
- Johnson, Jay M. (See Baur, Hugo J., assignor.)
- Johnson, Jay M., Chicago, Ill. Commutation or multiple-ride ticket collector. No. 1,145,313; July 6; Gaz. vol. 216; p. 117.
- Johnson, Jay M., and H. J. Baur, Chicago, Ill.; said Baur assignor to said Johnson. Fare-register. No. 1,159,771; Nov. 9; Gaz. vol. 220; p. 511.
- Johnson, Jay M., and H. J. Baur, Chicago, Ill.; said Baur assignor to said Johnson. Fare-register. No. 1,159,772; Nov. 9; Gaz. vol. 220; p. 511.
- Johnson, Jeremiah P., Detroit, Mich. Waterproof self-lubricating bearing for propeller-shafts, &c. No. 1,153,624; Sept. 14; Gaz. vol. 218; p. 485.
- Johnson, John, Brooklyn, N. Y. Filter-press. No. 1,139,767; May 18; Gaz. vol. 214; p. 793.
- Johnson, John, Brooklyn, N. Y. Filter-press. No. 1,151,186; Aug. 24; Gaz. vol. 217; p. 1176.
- Johnson, John, Olongapo, Philippine Islands. Phonograph. No. 1,145,146; July 6; Gaz. vol. 216; p. 60.
- Johnson, John A. (See Clark, Robert G., assignor.)
- Johnson, John A., New York, N. Y. Clothes-line handling and measuring machine. No. 1,161,687; Nov. 23; Gaz. vol. 220; p. 1286.
- Johnson, John A., Lockport, assignor of one-half to E. Carlson, Chicago, Ill. Sash lock and lifter. No. 1,126,223; Jan. 26; Gaz. vol. 210; p. 1183.

Alphabetical list of patentees—Continued.

- Johnson, John A., assignor to The M. B. Schenck Company, Meriden, Conn. Lock-lever caster. No. 1,137,329; Apr. 27; Gaz. vol. 213; p. 1274.
- Johnson, John A., assignor to Johnson Acetylene Gas Company, Crawfordsville, Ind. Valve-actuating mechanism. No. 1,147,325; July 20; Gaz. vol. 216; p. 860.
- Johnson, John A., Crawfordsville, and T. N. Johnson, Waveland, assignors to Johnson Acetylene Gas Company, Crawfordsville, Ind. Valve-actuating mechanism for carbide-receptacles. No. 1,130,906; Mar. 9; Gaz. vol. 212; p. 405.
- Johnson, John B., Fort Collins, Colo. Cultivating-tool. No. 1,134,538; Apr. 6; Gaz. vol. 213; p. 165.
- Johnson, John B., Fort Collins, Colo. Cultivator. No. 1,144,039; June 22; Gaz. vol. 215; p. 1134.
- Johnson, John B., San Francisco, Cal. Mop. No. 1,147,174; July 20; Gaz. vol. 216; p. 809.
- Johnson, John C., St. Louis, Mo. Means for use in sealing fiber boxes, cartons, and the like. No. 1,142,813; June 15; Gaz. vol. 215; p. 681.
- Johnson, John C., St. Louis, Mo. Means for use in sealing fiber boxes, cartons, and the like. No. 1,154,639; Sept. 28; Gaz. vol. 218; p. 899.
- Johnson, John E., Anderson, Ind. Railway-car signal. No. 1,152,094; Aug. 31; Gaz. vol. 217; p. 1534.
- Johnson, John E., Anderson, Ind. Railway-track signal-actuating device. No. 1,163,347; Dec. 7; Gaz. vol. 221; p. 215.
- Johnson, John E., Jamestown, N. Y., assignor to Rickert-Shafer Company, Erie, Pa. Tapping-machine. No. 1,153,310; Sept. 14; Gaz. vol. 218; p. 371.
- Johnson, John E., Jamestown, N. Y., assignor to Rickert-Shafer Company, Erie, Pa. Drive for machine-tools. No. 1,153,311; Sept. 14; Gaz. vol. 218; p. 371.
- Johnson, John F., Battle Creek, Mich. Angle-roller socket for inking-rollers. No. 1,147,947; July 27; Gaz. vol. 216; p. 1107.
- Johnson, John H., assignor to Federal-Huber Company, Chicago, Ill. Ball-cock. No. 1,140,377; May 25; Gaz. vol. 214; p. 1042.
- Johnson, John H., Chicago, Ill., assignor to Federal Huber Company. Ball-cock. No. 1,159,499; Nov. 9; Gaz. vol. 220; p. 412.
- Johnson, John L. (See Ackerman and Johnson.)
- Johnson, John L., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. System of electrical distribution. No. 1,132,478; Mar. 16; Gaz. vol. 212; p. 996.
- Johnson, John L., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. System of distribution. No. 1,139,294; May 11; Gaz. vol. 214; p. 589.
- Johnson, John M. and H. E., Winters, Cal. Tractor. No. 1,127,629; Feb. 9; Gaz. vol. 211; p. 376.
- Johnson, John P. H., Denver, Colo. Beet-harvester. No. 1,146,575; July 13; Gaz. vol. 216; p. 582.
- Johnson, John R., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Milling-machine. No. 1,139,422; May 11; Gaz. vol. 214; p. 636.
- Johnson, John R., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Milling-machine. No. 1,143,584; June 15; Gaz. vol. 215; p. 951.
- Johnson, John R., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Milling-machine spindle-head. No. 1,143,585; June 15; Gaz. vol. 215; p. 951.
- Johnson, John R., Rockford, Ill., assignor to Ingersoll Milling Machine Company. Milling-machine. No. 1,153,165; Sept. 7; Gaz. vol. 218; p. 281.
- Johnson, John S. (See Ashelman and Johnson.)
- Johnson, John S., Milwaukee, Wis. Marble-dressing machine. No. 1,126,023; Jan. 26; Gaz. vol. 210; p. 1108.
- Johnson, John T., and F. G. Mason, Caulfield, Victoria, Australia. Making fire-covers. No. 1,142,042; June 8; Gaz. vol. 215; p. 372.
- Johnson, John W., Chicago, Ill. Eraser-cleaner. No. 1,155,242; Sept. 28; Gaz. vol. 218; p. 1103.
- Johnson, Jonathan, and J. H. Younger, Marcella, Ark. Hay-press. No. 1,159,948; Nov. 9; Gaz. vol. 220; p. 575.
- Johnson, Joseph. (See Young, Eli, assignor.)
- Johnson, Joseph E., New York, N. Y. Quick-winding device. No. 1,149,062; Aug. 3; Gaz. vol. 217; p. 204.
- Johnson, Joseph E., Jr., New York, N. Y. Treating cast-iron. No. 1,150,201; Aug. 17; Gaz. vol. 217; p. 779.
- Johnson, Joseph E., Jr., Ashland, Wis. Recovery of volatile products from gases. No. 1,151,597; Aug. 31; Gaz. vol. 217; p. 1363.
- Johnson, Joseph H., Blissville, Ark. Log-buoy. No. 1,139,123; May 11; Gaz. vol. 214; p. 532.
- Johnson, Joseph H., Blissville, Ark. Log-buoy. No. 1,163,931; Dec. 14; Gaz. vol. 221; p. 465.
- Johnson, Joseph W. (See Treiber and Johnson.)
- Johnson, Julius C. (See Wilson, Harvey Y., assignor.)
- Johnson, Julius O., Eleva, Wis. End-gate for hay-racks. No. 1,165,103; Dec. 21; Gaz. vol. 221; p. 915.
- Johnson, Karl A., Olivia, Minn. Grain-shocker for harvesters. No. 1,144,848; June 29; Gaz. vol. 215; p. 1442.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,162,069; Nov. 30; Gaz. vol. 220; p. 1465.
- Johnson, La Fayette, St. Joseph, Mo. Union suit. No. 1,137,629; Apr. 27; Gaz. vol. 213; p. 1377.
- Johnson, Lafe, Indianapolis, Ind. Show-case. No. 1,130,407; Mar. 2; Gaz. vol. 212; p. 197.
- Johnson, Lawrence E., Winthrop, Mass. Rough-rounder and channeling machine. No. 1,125,550; Jan. 19; Gaz. vol. 210; p. 906.
- Johnson, Lawrence E., Winthrop, Mass. Sole rough-rounding and channeling machine. No. 1,149,369; Aug. 10; Gaz. vol. 217; p. 418.
- Johnson, Lawrence E., assignor to Specialty Shoe Machinery & Tool Co., St. Joseph, Mo. String-nailer. No. 1,134,617; Apr. 6; Gaz. vol. 213; p. 194.
- Johnson, Lawrence E., Winthrop, assignor to Victor Shoe Machinery Co., Boston, Mass. Sole-leather-cutting machine. No. 1,137,213; Apr. 27; Gaz. vol. 213; p. 1231.
- Johnson, Lawrence E., Boston, assignor to E. C. Wright, Brockton, Mass. Last. No. 1,164,096; Dec. 14; Gaz. vol. 221; p. 522.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn, assignor to Victor Shoe Machinery Co., Boston, Mass. Sewing-machine. No. 1,133,147; Mar. 23; Gaz. vol. 212; p. 1290.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn, assignors to Victor Shoe Machinery Co., Boston, Mass. Loper mechanism for sewing-machines. No. 1,133,148; Mar. 23; Gaz. vol. 212; p. 1291.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn, assignors to Victor Shoe Machinery Co., Boston, Mass. Presser-foot mechanism for sewing-machines. No. 1,133,149; Mar. 23; Gaz. vol. 212; p. 1291.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn, assignors to Victor Shoe Machinery Co., Boston, Mass. Awl-feeding mechanism for sewing-machines. No. 1,133,150; Mar. 23; Gaz. vol. 212; p. 1292.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn, assignors to Victor Shoe Machinery Co., Boston, Mass. Shuttle for sewing-machines. No. 1,133,151; Mar. 23; Gaz. vol. 212; p. 1292.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn, assignors to Victor Shoe Machinery Co., Boston, Mass. Shuttle mechanism for sewing-machines. No. 1,151,794; Aug. 31; Gaz. vol. 217; p. 1430.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn, assignors to Victor Shoe Machinery Co., Boston, Mass. Loper mechanism for sewing-machines. No. 1,154,571; Sept. 21; Gaz. vol. 218; p. 846.
- Johnson, Lawrence E., Winthrop, and E. Erickson, Lynn; said Erickson assignor to Victor Shoe Machinery Company, Boston, Mass. Shoe-heel-reducing device. No. 1,154,572; Sept. 21; Gaz. vol. 218; p. 846.
- Johnson, Lawrence T., Buffalo, N. Y. Car-door. No. 1,145,197; July 6; Gaz. vol. 216; p. 78.
- Johnson, Lawrence T., Buffalo, N. Y. Ladder. No. 1,149,368; Aug. 10; Gaz. vol. 217; p. 418.
- Johnson, Lee Roy G., Miakka, Fla. Hammer-head. No. 1,157,545; Oct. 19; Gaz. vol. 219; p. 832.
- Johnson, Leland F., and A. D. Wyckoff, assignors to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Waste-soaking tank. No. 1,153,690; Sept. 14; Gaz. vol. 218; p. 507.
- Johnson, Lewis, assignor of thirty-four one-hundredths to J. P. Kennedy, thirty-three one-hundredths to W. S. Leyens, and thirty-three one-hundredths to C. Schulze, Monroe, La. Automobile top-lifter. No. 1,135,976; Apr. 13; Gaz. vol. 213; p. 713.
- Johnson, Little, Northwood, Iowa. Stocking-protector. No. 1,147,404; July 20; Gaz. vol. 216; p. 891.
- Johnson, Louis D., Stockton, Cal. Nut-lock. No. 1,134,274; Apr. 6; Gaz. vol. 213; p. 70.
- Johnson, Louis E., and S. Strom, Los Angeles, Cal. Grinding-machine. No. 1,156,292; Oct. 12; Gaz. vol. 219; p. 359.
- Johnson, Louise H., executrix. (See Johnson, Augustus H. W.)
- Johnson, Ludwig, Jr., and O. D. Sawyer, Hudson, Mass. Game. No. 1,149,918; Aug. 10; Gaz. vol. 217; p. 616.
- Johnson, Luke M. (See Butts, James L., assignor.)
- Johnson, Madison L., Galena, Ill. Front running-gear for vehicles. No. 1,135,939; Apr. 13; Gaz. vol. 213; p. 698.
- Johnson, Margaret J., administratrix. (See Johnson, Tom L.)
- Johnson, Mark W., Jr., Atlanta, Ga. Prime mover. No. 1,140,515; May 25; Gaz. vol. 214; p. 1092.
- Johnson, Mark W., Jr., Atlanta, Ga. Turbine. No. 1,142,882; June 15; Gaz. vol. 215; p. 705.
- Johnson, Martin A., Galesville, Wis. Spring-motor. No. 1,144,205; June 22; Gaz. vol. 215; p. 1192.
- Johnson, Martin H., Little Falls, Minn. Coaster-brake. No. 1,138,956; May 11; Gaz. vol. 214; p. 471.
- Johnson, Mary E., trustee. (See Barnes, William O., assignor.)
- Johnson, Mary E., trustee. (See Cobb, Lyman H., assignor.)
- Johnson, Maurice D., and I. D. Michael, Crow, Oreg. Trace. No. 1,160,083; Nov. 9; Gaz. vol. 220; p. 619.
- Johnson, Morton L., assignor, by mesne assignments, to Frank B. Cook Company, Chicago, Ill. Telephone-exchange system. No. 1,145,245; July 6; Gaz. vol. 216; p. 95.

- Johnson, Morton L., assignor, by mesne assignments, to Frank B. Cook Company, Chicago, Ill. Telephone-exchange system. No. 1,146,074; July 13; Gaz. vol. 216; p. 405.
- Johnson, Morton L., assignor, by mesne assignments, to Frank B. Cook Company, Chicago, Ill. Telephony. No. 1,147,025; July 20; Gaz. vol. 216; p. 758.
- Johnson, Morton L., assignor, by mesne assignments, to Frank B. Cook Company, Chicago, Ill. Telephony. No. 1,147,246; July 20; Gaz. vol. 216; p. 835.
- Johnson, Nathan C., Englewood, N. J., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Absorption dynamometer. No. 1,141,802; June 1; Gaz. vol. 215; p. 251.
- Johnson, Nelson B., Webster, Mass. Steam-furnace-regulating system. No. 1,157,003; Oct. 19; Gaz. vol. 219; p. 640.
- Johnson, Nettle F., administratrix. (See Johnson, Harry T.)
- Johnson, Oliver J., Wheeling, W. Va. Device for counting cans and other articles. No. 1,123,545; Jan. 5; Gaz. vol. 210; p. 119.
- Johnson, Oliver W. (See Doolittle and Johnson.)
- Johnson, Oliver W., Cleveland, Ohio. Rotary plow. No. 1,145,147; July 6; Gaz. vol. 216; p. 60.
- Johnson, Oliver W., Geneva, assignor, by mesne assignments, to The Cleveland Folding Machine Company, Cleveland, Ohio. Folding-machine. No. 1,151,015; Aug. 24; Gaz. vol. 217; p. 1117.
- Johnson, Olof, Seattle, Wash. Internal-combustion engine. No. 1,156,846; Oct. 12; Gaz. vol. 219; p. 555.
- Johnson, Olof E. M., Newett, Colo. Hatchet. No. 1,142,101; June 8; Gaz. vol. 215; p. 394.
- Johnson, Olof V. (See Bodeen, John W., assignor.)
- Johnson, Orion E., assignor to W. A. Nuemmaker and V. A. Tobey, Cedar Rapids, Iowa. Door-supporting clamp. No. 1,165,975; Dec. 28; Gaz. vol. 221; p. 1256.
- Johnson, Orville C., St. Louis, Mo. Halter. No. 1,138,115; May 4; Gaz. vol. 214; p. 140.
- Johnson, Oscar, Starks, Wis. Window-holder. No. 1,154,317; Sept. 21; Gaz. vol. 218; p. 759.
- Johnson, Otto B., Wilmington, Del. Car-roof. No. 1,151,468; Aug. 24; Gaz. vol. 217; p. 1269.
- Johnson, Paul F., Milwaukee, Wis. Adjusting means for thermostats and the like. No. 1,139,185; May 11; Gaz. vol. 214; p. 554.
- Johnson, Philip. (See Bemiss and Johnson.)
- Johnson, Philip, Springfield, Oreg. Telephone attachment. No. 1,130,608; Mar. 2; Gaz. vol. 212; p. 269.
- Johnson, Pierce X., Portland, Oreg., assignor to Tree Faller & Cutter Co. Tree-feller. No. 1,163,155; Dec. 7; Gaz. vol. 221; p. 147.
- Johnson Power Washer Co. (See Johnson, Chris P., assignor.)
- Johnson, Ralph C., Chicago, Ill. Motor vehicle and boat. No. 1,151,272; Aug. 24; Gaz. vol. 217; p. 1205.
- Johnson, Reinhold, Brooklyn, N. Y. Internal-combustion engine. No. 1,137,142; Apr. 27; Gaz. vol. 213; p. 1205.
- Johnson, Reno D. O., Nazareth, assignor to J. A. Horner, Bath, Pa. Pneumatic concentrator. No. 1,139,186; May 11; Gaz. vol. 214; p. 554.
- Johnson, Richard H., Creston, Wash. Route-indicator. No. 1,124,745; Jan. 12; Gaz. vol. 210; p. 586.
- Johnson, Robert S., East Cleveland, Ohio. Liquid-measuring device. No. 1,137,861; May 4; Gaz. vol. 214; p. 48.
- Johnson, S. W., et al. (See Holsey, Walter R., assignor.)
- Johnson, Samuel E. (See Titus, Weible, and Johnson.)
- Johnson, Sanford L., Scotland, Ga. Nut-lock. No. 1,132,352; Mar. 16; Gaz. vol. 212; p. 951.
- Johnson Service Company. (See Johnson, Carl F., assignor.)
- Johnson, Sidney H., Soho Foundry, near Birmingham, England, assignor to The Avery Scale Company, North Milwaukee, Wis. Automatic weighing apparatus. No. 1,135,379; Apr. 13; Gaz. vol. 213; p. 501.
- Johnson, Sigurd W., and J. H. Aberle, Minneapolis, Minn. Music-leaf turner. No. 1,164,355; Dec. 14; Gaz. vol. 221; p. 612.
- Johnson, Simon C., De Kalb, Ill. Roach-trap. No. 1,161,388; Nov. 23; Gaz. vol. 220; p. 1183.
- Johnson Spring Garter Co., The. (See Winters, Edward B., assignor.)
- Johnson, Theodore, Chicago, Ill. Mop-holder. No. 1,163,824; Dec. 14; Gaz. vol. 221; p. 428.
- Johnson, Theodore G., Kansas City, Mo. Dust-mop. No. 1,134,984; Apr. 6; Gaz. vol. 213; p. 323.
- Johnson, Theodore G., Kansas City, Mo. Mop. No. 1,162,723; Nov. 30; Gaz. vol. 220; p. 1687.
- Johnson, Theodore N. (See Johnson, John A. and T. N.)
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Bayonet-hand lock for military rifles. No. 1,125,024; Jan. 12; Gaz. vol. 210; p. 684.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 1,146,502; July 13; Gaz. vol. 216; p. 557.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 1,146,503; July 13; Gaz. vol. 216; p. 557.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Cartridge-loading clip. No. 1,161,688; Nov. 23; Gaz. vol. 220; p. 1287.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Protector for the front sights of shoulder-firearms. No. 1,162,367; Nov. 30; Gaz. vol. 220; p. 1569.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 1,163,150; Dec. 7; Gaz. vol. 221; p. 147.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Sight-base for gun-barrels. No. 1,164,285; Dec. 14; Gaz. vol. 221; p. 587.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Military shoulder-arm. No. 1,165,976; Dec. 28; Gaz. vol. 221; p. 1257.
- Johnson, Thomas S., Scranton, Pa. Grate-bar. No. 1,125,551; Jan. 19; Gaz. vol. 210; p. 907.
- Johnson, Thomas W., Philadelphia, Pa. Graphite-feeding lubricator. No. 1,137,978; May 4; Gaz. vol. 214; p. 89.
- Johnson, Thorwald, Chicago, Ill. Metallic hoop. No. 1,135,289; Apr. 13; Gaz. vol. 213; p. 471.
- Johnson, Tom L., deceased, Cleveland, Ohio; M. J. Johnson, administratrix. High-speed railway. No. 1,123,305; Jan. 5; Gaz. vol. 210; p. 35.
- Johnson, Tom L., deceased, Cleveland, Ohio; M. J. Johnson, administratrix. High-speed railway. No. 1,123,306; Jan. 5; Gaz. vol. 210; p. 36.
- Johnson, Victor A., Detroit, Mich. Holder for starting-cranks of engines. No. 1,127,257; Feb. 2; Gaz. vol. 211; p. 209.
- Johnson, Wade, Spencer, Ohio. Animal-restrainer. No. 1,163,090; Dec. 7; Gaz. vol. 221; p. 123.
- Johnson, Waldo P., Chicago, Ill. Poultry-car. No. 1,159,843; Nov. 9; Gaz. vol. 220; p. 538.
- Johnson, Walfred, Milwaukee, Wis. Printing-frame. No. 1,139,768; May 18; Gaz. vol. 214; p. 793.
- Johnson, Walter, Los Angeles, Cal. Superheater. No. 1,157,546; Oct. 19; Gaz. vol. 219; p. 832.
- Johnson, Walter N., Williamsport, Pa. Antifrosting window. No. 1,143,402; June 15; Gaz. vol. 215; p. 890.
- Johnson, Wilfred G., Elyria, assignor to W. B. D. Alexander, Cleveland, Ohio. Motor-cycle. No. 1,157,547; Oct. 19; Gaz. vol. 219; p. 832.
- Johnson, William A., Chicago, Ill. Automobile shock-absorber. No. 1,136,469; Apr. 20; Gaz. vol. 213; p. 929.
- Johnson, William A., Yonkers, N. Y. Automobile-lock. No. 1,151,363; Aug. 24; Gaz. vol. 217; p. 1234.
- Johnson, William A., Yonkers, N. Y. Racket-press. No. 1,156,363; Oct. 12; Gaz. vol. 219; p. 385.
- Johnson, William B. (See Lehman and Johnson.)
- Johnson, William C., Eau Claire, Wis. Guard. No. 1,132,853; Mar. 23; Gaz. vol. 212; p. 1184.
- Johnson, William C., Cincinnati, Ohio. Table. No. 1,143,279; June 15; Gaz. vol. 215; p. 846.
- Johnson, William D. (See Williams, William E., assignor.)
- Johnson, William E., Fenwick, W. Va. Aerial cableway. No. 1,159,390; Nov. 9; Gaz. vol. 220; p. 373.
- Johnson, William E., assignor to Rock Island Plow Company, Rock Island, Ill. Cotton-planter. No. 1,131,245; Mar. 9; Gaz. vol. 212; p. 521.
- Johnson, William G., Oklahoma, Okla. Rail chair and fastener. No. 1,123,546; Jan. 5; Gaz. vol. 210; p. 119.
- Johnson, William G., Old Forge borough, Pa. Safety elevator-gate. No. 1,143,766; June 22; Gaz. vol. 215; p. 1037.
- Johnson, William H., A. L. Bird, and C. E. Connell, Brandon, Vt., assignors to Bicojon Manufacturing Company. Cutter for photographic prints and other sheet materials. No. 1,161,773; Nov. 23; Gaz. vol. 220; p. 1314.
- Johnson, William H., A. L. Bird, and C. E. Connell, Brandon, Vt., assignors to Bicojon Manufacturing Company. Trimmer for sheet material. No. 1,161,774; Nov. 23; Gaz. vol. 220; p. 1315.
- Johnson, William J., Munday, Tex. Seed-planter. No. 1,128,787; Feb. 16; Gaz. vol. 211; p. 830.
- Johnson, William W., Yonkers, N. Y. Game apparatus. No. 1,126,024; Jan. 26; Gaz. vol. 210; p. 1108.
- Johnson, Woolsey M., assignor to The Continuous Zinc Furnace Company, Hartford, Conn. Metallic union. No. 1,133,245; Mar. 23; Gaz. vol. 212; p. 1323.
- Johnson, Woolsey M., assignor to The Continuous Zinc Furnace Company, Hartford, Conn. Treating zinc-bearing materials. No. 1,146,075; July 13; Gaz. vol. 216; p. 405.
- Johnson, Woolsey M., assignor to The Continuous Zinc Furnace Company, Hartford, Conn. Electric reduction of zinc ores. No. 1,150,271; Aug. 17; Gaz. vol. 217; p. 804.
- Johnson, Woolsey M., and E. W. Hale, assignors to The Continuous Zinc Furnace Company, Hartford, Conn. Duplex smelting. No. 1,165,371; Dec. 21; Gaz. vol. 221; p. 1007.
- Johnston, Andrew, deceased, Lydia A. Johnston, executrix, assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Transmission-gear. No. 1,136,342; Apr. 20; Gaz. vol. 213; p. 882.
- Johnston, Arthur C., assignor to Link Belt Company, Chicago, Ill. Brake for trolley-drums and the like. No. 1,140,829; May 25; Gaz. vol. 214; p. 1200.

Alphabetical list of patentees—Continued.

- Johnston, Arthur W., and A. A. Norton, Chicago, Ill. Egg-beater or the like. No. 1,140,341; May 18; Gaz. vol. 214; p. 994.
- Johnston, Charles and C., Memphis, Tenn. Individual or group cut-outs for electrical devices. No. 1,138,222; May 4; Gaz. vol. 214; p. 174.
- Johnston, Clarence L. (See Brown and Johnston.)
- Johnston, Clarence L., and H. P. Brown, Oakland, Cal. Interleaved paper articles. No. 1,141,395; June 1; Gaz. vol. 215; p. 111.
- Johnston, Claude. (See Johnston, Charles and C.)
- Johnston, Edward A., Chicago, Ill., assignor to International Harvester Corporation. Internal-combustion engine. No. 1,129,101; Feb. 23; Gaz. vol. 211; p. 978.
- Johnston, Edward A., Chicago, Ill., assignor to International Harvester Corporation. Traction-wheel. No. 1,139,769; May 18; Gaz. vol. 214; p. 794.
- Johnston, Edward A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Corporation. Power-transmission mechanism. No. 1,144,547; June 29; Gaz. vol. 215; p. 1337.
- Johnston, Edward A., and C. I. Longenecker, Chicago, Ill., assignors to International Harvester Company. Internal-combustion engine. No. 1,129,099; Feb. 23; Gaz. vol. 211; p. 977.
- Johnston, Edward A., and C. I. Longenecker, Chicago, Ill., assignors to International Harvester Company. Internal-combustion engine. No. 1,129,100; Feb. 23; Gaz. vol. 211; p. 977.
- Johnston, Edward A., and C. I. Longenecker, Chicago, Ill., assignors, by mesne assignments, to International Harvester Corporation. Carbureter. No. 1,150,202; Aug. 17; Gaz. vol. 217; p. 779.
- Johnston, Ernest W., Bromsgrove, England. Lubricator. No. 1,150,371; Aug. 17; Gaz. vol. 217; p. 838.
- Johnston, Floyd A., *et al.* (See Kendall, William S., assignor.)
- Johnston, Frank B., Roselle Park, N. J., assignor to American Safety Device Company. Scaffolding device. No. 1,127,445; Feb. 9; Gaz. vol. 211; p. 314.
- Johnston, Frank B., Roselle Park, N. J., assignor to American Safety Device Company. Scaffolding device. No. 1,127,446; Feb. 9; Gaz. vol. 211; p. 315.
- Johnston, Frederick A. (See Huff and Johnston.)
- Johnston, George, Detroit, Mich. Lens-mounting. No. 1,146,169; July 13; Gaz. vol. 216; p. 439.
- Johnston, George H., Apollo, Pa. Valve for gas-engines. No. 1,124,911; Jan. 12; Gaz. vol. 210; p. 645.
- Johnston, George S., assignor to Geo. S. Johnston Company, Chicago, Ill. Cement. No. 1,132,721; Mar. 23; Gaz. vol. 212; p. 1134.
- Johnston, Harry A., Fresno, Cal. Traction means for vehicle-wheels. No. 1,127,362; Feb. 2; Gaz. vol. 211; p. 242.
- Johnston Harvester Company, The. (See Farrall and Maul, assignors.)
- Johnston, Herbert L., assignor to The Hobart Manufacturing Company, Troy, Ohio. Clutch mechanism for grinders and choppers. No. 1,156,904; Oct. 19; Gaz. vol. 219; p. 605.
- Johnston, Horace G., Corsicana, Tex. Rotary attachment. No. 1,135,808; Apr. 13; Gaz. vol. 213; p. 653.
- Johnston, James G., Evanston, Ill., assignor to The Warren Featherbone Company, Three Oaks, Mich. Display-card. No. 1,132,854; Mar. 23; Gaz. vol. 212; p. 1184.
- Johnston, John A., Springfield, Mass. Apparatus for and method of making roads. No. 1,158,503; Nov. 2; Gaz. vol. 220; p. 32.
- Johnston, John A., and C. D. Jacobs, Bluffton, Ind. Motor-vehicle jack. No. 1,151,106; Aug. 24; Gaz. vol. 217; p. 1148.
- Johnston, Joseph H., Portland, Oreg. Date-finder and calendar. No. 1,153,926; Sept. 21; Gaz. vol. 218; p. 625.
- Johnston, Lella M., Coleman, Tex. Making round-bottomed paper bags. No. 1,127,258; Feb. 2; Gaz. vol. 211; p. 209.
- Johnston, Leonard. (See Bliss and Johnston.)
- Johnston, Lydia A., executrix. (See Johnston, Andrew.)
- Johnston, Oliver, Huntington, N. Y. Heater and ventilator. No. 1,133,969; Mar. 30; Gaz. vol. 212; p. 1615.
- Johnston, Robert, Kingston, Pa. Reel. No. 1,138,483; May 4; Gaz. vol. 214; p. 268.
- Johnston, Robert T., Scotch Plains, N. J., assignor, by mesne assignments, to Automatic Furnace Co., New York, N. Y. Casting-furnace. No. 1,123,883; Jan. 5; Gaz. vol. 210; p. 234.
- Johnston, Robert T., assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate. No. 1,126,768; Feb. 2; Gaz. vol. 211; p. 37.
- Johnston, Robert T., assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate-finishing machine. No. 1,126,769; Feb. 2; Gaz. vol. 211; p. 37.
- Johnston, Robert T., assignor to The Goss Printing Press Company, Chicago, Ill. Printing-plate-casting machine. No. 1,126,770; Feb. 2; Gaz. vol. 211; p. 37.
- Johnston, Robert T., assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate finishing and cooling machine. No. 1,126,771; Feb. 2; Gaz. vol. 211; p. 37.
- Johnston, Robert T., assignor to The Goss Printing Press Company, Chicago, Ill. Transferring device for stereotype-plates. No. 1,147,733; July 27; Gaz. vol. 216; p. 1032.
- Johnston, Robert T., Muskegon, Mich., assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate finishing and cooling machine. No. 1,126,772; Feb. 2; Gaz. vol. 211; p. 38.
- Johnston, Robert T., Muskegon, Mich., assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype-plate finishing and cooling machine. No. 1,126,773; Feb. 2; Gaz. vol. 211; p. 38.
- Johnston, Robert T., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Apparatus for determining level for bowling-alley beds. No. 1,129,400; Feb. 23; Gaz. vol. 211; p. 1083.
- Johnston, Robert T., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Machine for resurfacing bowling-alley beds. No. 1,129,401; Feb. 23; Gaz. vol. 211; p. 1083.
- Johnston, Samuel E., Delta, Colo. Instep and ankle support for shoes. No. 1,142,713; June 8; Gaz. vol. 215; p. 606.
- Johnston, Stephen G. (See Maxwell, Jesse H., assignor.)
- Johnston, Stephen G., Barboursville, W. Va. Burner. No. 1,134,863; Apr. 6; Gaz. vol. 213; p. 280.
- Johnston, Stephen G., Barboursville, W. Va. Automatic coupling. No. 1,134,864; Apr. 6; Gaz. vol. 213; p. 280.
- Johnston, William. (See Fink, William T., assignor.)
- Johnston, William, and C. H. Romer, Dayton, Ohio. Core-making device. No. 1,149,448; Aug. 10; Gaz. vol. 217; p. 446.
- Johnston, William C., *et al.* (See Markham, Andrew J. assignor.)
- Johnston, William J., Port Carling, Ontario, Canada, assignor of one-half to R. A. Shields, New York, N. Y. Propulsion device for boats. No. 1,151,107; Aug. 24; Gaz. vol. 217; p. 1148.
- Johnston, Willis, Schenectady, N. Y. Motor-starting device. No. 1,138,116; May 4; Gaz. vol. 214; p. 140.
- Johnstone, Francis W., Fort Smith, Ark. Tank-indicator. No. 1,153,553; Sept. 14; Gaz. vol. 218; p. 461.
- Johnstone, George A. (See Dyer and Johnstone.)
- Johnstone, Robert L., Glen Ridge, N. J. Vending-machine. No. 1,128,323; Feb. 16; Gaz. vol. 211; p. 671.
- Johst, Paul S. (See Doolittle and Johst.)
- Joleen, Nels, Chicago, Ill. Electrical distribution. No. 1,159,040; Nov. 2; Gaz. vol. 220; p. 217.
- Jolly, Benjamin R., Raleigh, N. C. Watch-carrying device. No. 1,165,262; Dec. 21; Gaz. vol. 221; p. 970.
- Jolly, James, Bolton, and P. E. Willis, Chequerbent, Bolton, England. Combining-machine. No. 1,126,774; Feb. 2; Gaz. vol. 211; p. 38.
- Jonas, Charles S., *et al.* (See Hart, Frederick, assignor.)
- Jonas, Frederick W., and C. S. Spofford, assignors to Sturgis Steel Go-Cart Co., Sturgis, Mich. Collapsible carriage. No. 1,161,315; Nov. 23; Gaz. vol. 220; p. 1156.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Mercury-vapor rectifier and the like. No. 1,153,794; Sept. 14; Gaz. vol. 218; p. 544.
- Jonas, Julius, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Electric vapor-lamp and the like. No. 1,164,603; Dec. 14; Gaz. vol. 221; p. 697.
- Jonas, Richard A., *et al.* (See Hart, Frederick, assignor.)
- Joncas, Philip. (See Bouchard, Cunliff, and Joncas.)
- Jones, A. P. (See Evans, Charles C., assignor.)
- Jones, Aaron L., Brownwood, Tex. Eye-testing device. No. 1,162,489; Nov. 30; Gaz. vol. 220; p. 1611.
- Jones, Adolph W. (See Paige, Charles F., assignor.)
- Jones, Alfred J., Ozone Park, assignor of one-third to H. F. Homeyer, New York, N. Y. Can-top. No. 1,149,524; Aug. 10; Gaz. vol. 217; p. 472.
- Jones, Allan H. (See Edge and Jones.)
- Jones, Alma, *et al.* (See Morley, Joseph, assignor.)
- Jones, Alva D., Philadelphia, Pa. Sound-box for talking-machines. No. 1,142,883; June 15; Gaz. vol. 215; p. 706.
- Jones, Anna M., Kansas City, Mo. Dress-form. No. 1,125,336; Jan. 19; Gaz. vol. 210; p. 832.
- Jones, Arthur A., *et al.* (See Jones, John A., assignor.)
- Jones, Arthur R., Bangor, Me. Circuit-closer for electric-lighted levels or plumbs. No. 1,139,295; May 11; Gaz. vol. 214; p. 590.
- Jones, Arthur S., assignor of one-half to L. C. Cummings, Brookline, Mass. Automatic control system for railway-trains. No. 1,141,873; June 1; Gaz. vol. 215; p. 273.
- Jones, Benjamin H., St. Louis, Mo. Bronzing-machine. No. 1,134,203; Apr. 6; Gaz. vol. 213; p. 44.
- Jones, Benjamin H., St. Louis, Mo. Caster-socket. No. 1,141,342; June 1; Gaz. vol. 215; p. 91.
- Jones, Breckinridge, trustee. (See Hayes, Charles J. W., assignor.)
- Jones, Byron O., Chicago, Ill. Piano-stool. No. 1,142,174; June 8; Gaz. vol. 215; p. 419.
- Jones, Charles H., Galva, Ill. Road-leveling machine. No. 1,140,985; May 25; Gaz. vol. 214; p. 1256.
- Jones, Charles W., Charlotte, N. C. Concrete-mold. No. 1,148,517; Aug. 3; Gaz. vol. 217; p. 12.

Alphabetical list of patentees—Continued.

- Jones, Clarence A., assignor to Filterette Company, Wabona, Ill. Filter for pipes and the like. No. 1,127,771; Feb. 9; Gaz. vol. 211; p. 429.
- Jones, Clarence W., Norwalk, Conn. Magazine-brush. No. 1,134,865; Apr. 6; Gaz. vol. 213; p. 281.
- Jones, Claude M., Carrollton, Miss. Lineman's climber. No. 1,150,372; Aug. 17; Gaz. vol. 217; p. 838.
- Jones, Daniel E. (See Hubler and Jones.)
- Jones, David, Anaconda, Mont. Pneumatic-tire valve. No. 1,146,882; July 20; Gaz. vol. 216; p. 707.
- Jones, David G., Emerson, Iowa. Stalk-cutter. No. 1,156,234; Oct. 12; Gaz. vol. 219; p. 340.
- Jones, David P., Breckenburg, Saskatchewan, Canada. Hay-raking attachment to mowers. No. 1,138,223; May 4; Gaz. vol. 214; p. 175.
- Jones, Edward, Great Neck, N. Y. Demountable rim. No. 1,133,152; Mar. 23; Gaz. vol. 212; p. 1293.
- Jones, Edward A., Pittsfield, Mass. Beating-engine. No. 1,140,830; May 25; Gaz. vol. 214; p. 1200.
- Jones, Edward A., Scranton, and J. E. Jones, Throop, Pa. Graphite lubricator. No. 1,145,314; July 6; Gaz. vol. 216; p. 117.
- Jones, Edward C. and L. B., San Francisco, Cal. Manufacturing illuminating-gas from liquid hydrocarbons. No. 1,157,225; Oct. 19; Gaz. vol. 219; p. 719.
- Jones, Edward S., Mobile, Ala. Safety-envelop. No. 1,126,675; Jan. 26; Gaz. vol. 210; p. 1346.
- Jones, Edward S., Mobile, Ala. Smoke and cinder condenser. No. 1,166,132; Dec. 28; Gaz. vol. 221; p. 1314.
- Jones, Edward S., assignor of one-half to J. L. Taylor, Mobile, Ala. Vehicle-fender. No. 1,152,320; Aug. 31; Gaz. vol. 217; p. 1611.
- Jones, Edwin, Oneonta, N. Y., assignor to W. P. Murphy, Chicago, Ill. Uncoupling device for railway-cars. No. 1,124,027; Jan. 5; Gaz. vol. 210; p. 281.
- Jones, Edwin, Greenfield, near Holywell, Wales, and W. S. Williams, Liverpool, England. Wheel for vehicles. No. 1,125,025; Jan. 12; Gaz. vol. 210; p. 684.
- Jones, El Dorado. (See Block, Albert J., assignor.)
- Jones, El Dorado, Moline, Ill. Attachment-plug. No. 1,141,686; June 1; Gaz. vol. 215; p. 213.
- Jones, Eli, Lexington, Tenn. Well-strainer. No. 1,135,809; Apr. 13; Gaz. vol. 213; p. 654.
- Jones, Eli, Luverne, Minn., and E. J. Olson, Valley Springs, S. D. Combination-clevis. No. 1,124,028; Jan. 5; Gaz. vol. 210; p. 282.
- Jones, Eliza J., Enterprise, Ala. Convertible chair and step. No. 1,154,403; Sept. 21; Gaz. vol. 218; p. 789.
- Jones, Elmer M., Atlanta, Ga. Automatic signaling and train-stopping device. No. 1,126,778; Feb. 2; Gaz. vol. 211; p. 40.
- Jones, Elmer M., Adrian, Mich. Thermo-hygrostat. No. 1,162,490; Nov. 30; Gaz. vol. 220; p. 1611.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Closed-circuit signal system. No. 1,126,775; Feb. 2; Gaz. vol. 211; p. 39.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Electric signal system. No. 1,126,776; Feb. 2; Gaz. vol. 211; p. 39.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Electric signal system. No. 1,126,777; Feb. 2; Gaz. vol. 211; p. 40.
- Jones, Elmer M., Atlanta, Ga., assignor to Jones Signal System Company. Automatic train-stop and signal mechanism. No. 1,129,200; Feb. 23; Gaz. vol. 211; p. 1012.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Automatic train-stop. No. 1,129,201; Feb. 23; Gaz. vol. 211; p. 1012.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Compressible track-ramp. No. 1,129,202; Feb. 23; Gaz. vol. 211; p. 1013.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Automatic stopping or signaling mechanism for trains. No. 1,129,203; Feb. 23; Gaz. vol. 211; p. 1013.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Valve-controlling mechanism. No. 1,129,204; Feb. 23; Gaz. vol. 211; p. 1013.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Automatic train-stop. No. 1,129,205; Feb. 23; Gaz. vol. 211; p. 1014.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Automatic train-stop. No. 1,142,884; June 15; Gaz. vol. 215; p. 706.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Automatic stopping device for vehicles. No. 1,142,885; June 15; Gaz. vol. 215; p. 707.
- Jones, Elmer M., assignor to Jones Signal System Company, Atlanta, Ga. Automatic stop or cab signal device. No. 1,142,886; June 15; Gaz. vol. 215; p. 707.
- Jones, Elmer P., Bowling Green, Ohio. Gate mechanism. No. 1,160,290; Nov. 16; Gaz. vol. 220; p. 746.
- Jones, Emerald E., Chicago, Ill., assignor to Surty Guard Company. Belt-manipulator. No. 1,161,775; Nov. 23; Gaz. vol. 220; p. 1315.
- Jones, Emmett. (See Williams and Jones.)
- Jones, Erastus T., Wayland, assignor of one-half to C. H. Stanton, Waco, Tex. Churn-actuating mechanism. No. 1,156,146; Oct. 12; Gaz. vol. 219; p. 312.
- Jones, Ernest H., London, England. Casing for pneumatic tires. No. 1,133,153; Mar. 23; Gaz. vol. 212; p. 1293.
- Jones, Ezekiel, Boston, Mass. Shoe-polishing machine. No. 1,139,531; May 18; Gaz. vol. 214; p. 709.
- Jones, F. W., et al. (See Dingwell, Ruel, assignor.)
- Jones, Forrest R., Knoxville, Tenn. Friction-clutch. No. 1,126,779; Feb. 2; Gaz. vol. 211; p. 40.
- Jones, Forrest R., Knoxville, Tenn. Friction-clutch. No. 1,126,780; Feb. 2; Gaz. vol. 211; p. 41.
- Jones, Frank A., assignor to The Kentucky Starting Gate Company, Newport, Ky. Horse-starting device. No. 1,147,405; July 20; Gaz. vol. 216; p. 891.
- Jones, Frank C., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,164,651; Dec. 21; Gaz. vol. 221; p. 755.
- Jones, Frank E., assignor to Hemphill Manufacturing Company, Pawtucket, R. I. Yarn-finger mechanism for knitting-machines. No. 1,136,343; Apr. 20; Gaz. vol. 213; p. 882.
- Jones, Frank G., et al. (See Jones, John A., assignor.)
- Jones, Frank T., Baltimore, Md., assignor, by mesne assignments, to The American Train Control Company. Speed-controlling mechanism for vehicles. No. 1,131,637; Mar. 9; Gaz. vol. 212; p. 658.
- Jones, Frederick A., et al. (See Larsson, Thure, assignor.)
- Jones, Frederick A., Wagga Wagga, New South Wales, Australia. Faucet attachment. No. 1,142,579; June 8; Gaz. vol. 215; p. 562.
- Jones, George A., Seattle, Wash. Internal-combustion pumping-engine. No. 1,135,587; Apr. 13; Gaz. vol. 213; p. 576.
- Jones, George A., Northumberland, Pa. Reversible drive-chain link. No. 1,165,263; Dec. 21; Gaz. vol. 221; p. 970.
- Jones, George W., Chicago, Ill. Internal-combustion engine. No. 1,128,685; Feb. 16; Gaz. vol. 211; p. 795.
- Jones, George W., assignor to Macnab and Roberts, Limited, Winnipeg, Manitoba, Canada. Oven. No. 1,127,259; Feb. 2; Gaz. vol. 211; p. 209.
- Jones, H. Walter, et al. (See Moore, Charles P., assignor.)
- Jones, Harley H., Medford, Mass. Garbage-receptacle. No. 1,126,640; Jan. 26; Gaz. vol. 210; p. 1334.
- Jones, Harold C., Chicago Heights, Ill. Ladder. No. 1,144,600; June 29; Gaz. vol. 215; p. 1355.
- Jones, Harry. (See Gallagher and Jones.)
- Jones, Harry, Suffern, N. Y., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Segmental brake-shoe. No. 1,129,986; Mar. 2; Gaz. vol. 212; p. 52.
- Jones, Harry, Suffern, N. Y., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,132,944; Mar. 23; Gaz. vol. 212; p. 1217.
- Jones, Harry, Suffern, N. Y., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,144,601; June 29; Gaz. vol. 215; p. 1355.
- Jones, Harry, Suffern, N. Y., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Composition-body brake-shoe. No. 1,156,689; Oct. 12; Gaz. vol. 219; p. 501.
- Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 1,130,171; Mar. 2; Gaz. vol. 212; p. 114.
- Jones, Harry F., and D. Hathaway, Gross, Nebr. Fence-post. No. 1,161,865; Nov. 30; Gaz. vol. 220; p. 1394.
- Jones, Harry S., Chicago, Ill., assignor, by mesne assignments, to Central Trust Company of Illinois, trustee. Binder. No. 1,129,206; Feb. 23; Gaz. vol. 211; p. 1014.
- Jones, Harry W., San Francisco, Cal. Computing-machine. No. 1,140,684; May 25; Gaz. vol. 214; p. 1149.
- Jones, Harry W., assignor to American Can Company, New York, N. Y. Paper can or receptacle. No. 1,130,825; Mar. 9; Gaz. vol. 212; p. 377.
- Jones, Harry W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Pouring-spout container vessel. No. 1,152,416; Sept. 7; Gaz. vol. 218; p. 12.
- Jones, Henry, Cross Keys, near Newport, England. Oil-can. No. 1,165,511; Dec. 28; Gaz. vol. 221; p. 1094.
- Jones, Henry B., Yonkers, N. Y. Jack. No. 1,145,315; July 6; Gaz. vol. 216; p. 118.
- Jones, Henry H., Medford, Mass. Garbage-receptacle. No. 1,136,235; Apr. 20; Gaz. vol. 213; p. 844.
- Jones, Henry T., Hudson Falls, N. Y. Straight-edge. No. 1,128,881; Feb. 16; Gaz. vol. 211; p. 864.
- Jones, Howard F., Warrenton, N. C. Railway-signal and automatic train-stopping device. No. 1,130,980; Mar. 9; Gaz. vol. 212; p. 430.
- Jones, Hugh F., Los Angeles, Cal. Guard device for windows. No. 1,165,782; Dec. 28; Gaz. vol. 221; p. 1190.
- Jones, Hugh J. (See Jones, Isaac E. and H. J.)
- Jones, Isaac E. and H. J., Denver, Colo. Music-leaf turner. No. 1,151,469; Aug. 24; Gaz. vol. 217; p. 1270.
- Jones, J. H. (See Moore, Daniel E. and E. V., assignors.)
- Jones, James, Jr., New York, N. Y. Burglar-alarm. No. 1,146,883; July 20; Gaz. vol. 216; p. 707.
- Jones, James A., Jackson, Tenn. Cover for automobile-tops. No. 1,142,329; June 8; Gaz. vol. 215; p. 473.
- Jones, James A., Indianapolis, Ind. Terminal connector. No. 1,149,063; Aug. 3; Gaz. vol. 217; p. 205.
- Jones, James B., et al. (See Shannon, Leon T., assignor.)
- Jones, James E., assignor to National Factories Incorporated, Richmond, Ind. Live-stock oiler. No. 1,151,883; Aug. 31; Gaz. vol. 217; p. 1462.

Alphabetical list of patentees—Continued.

- Jones, James F., and L. P. Rexford, assignors to American Paper Products Company, St. Louis, Mo. Egg-wrapper. No. 1,123,884; Jan. 5; Gaz. vol. 210; p. 234.
- Jones, James F., L. P. Rexford, and H. N. Gores, assignors to American Paper Products Company, St. Louis, Mo. Machine for making corrugated-paper box-blanks. No. 1,123,885; Jan. 5; Gaz. vol. 210; p. 234.
- Jones, James H. (See Dunbar and Jones.)
- Jones, James H., assignor, by mesne assignments, to Hendee Manufacturing Company, Springfield, Mass. Rotary engine. No. 1,126,224; Jan. 26; Gaz. vol. 210; p. 1183.
- Jones, James L. (See Shank, Jacob H., assignor.)
- Jones, James S., Harrison, Ark. Syrup-pitcher. No. 1,130,738; Mar. 9; Gaz. vol. 212; p. 347.
- Jones, Jefferson D., assignor of one-half to R. G. Warnick and one-half to C. E. Buckwalter, Long Beach, Cal. Cycle-skate. No. 1,144,134; June 22; Gaz. vol. 215; p. 1167.
- Jones, Jefferson P., assignor of one-half to G. Walcott, Jonesville, Mich. Permutation-lock. No. 1,127,447; Feb. 9; Gaz. vol. 211; p. 315.
- Jones, Jesse L., Wilkinsburg, assignor to Geo. L. Curtiss Co., Pittsburgh, Pa. Skimming-ladle. No. 1,145,422; July 6; Gaz. vol. 216; p. 156.
- Jones, Jessie L. (See Martin and Jones.)
- Jones, John, Bokhoma, Okla. Water-cycle. No. 1,138,571; May 4; Gaz. vol. 214; p. 296.
- Jones, John A., Palestine, Tex. Garbage-can. No. 1,135,810; Apr. 13; Gaz. vol. 213; p. 654.
- Jones, John A., Rome, N. Y. Egg-crate. No. 1,153,495; Sept. 14; Gaz. vol. 218; p. 439.
- Jones, John A., assignor of two-ninths to F. G. Jones, two-ninths to A. A. Jones, one-ninth to L. J. Packard, Cincinnati, Ohio, and one-ninth to A. A. King, Boyton, Fla. Metallic window-sash. No. 1,161,316; Nov. 23; Gaz. vol. 220; p. 1157.
- Jones, John C. (See Glessner, Charles E., assignor.)
- Jones, John C., administrator. (See Waterall, William L.)
- Jones, John D., et al. (See Turner, John W., assignor.)
- Jones, John E. (See Dubois and Jones.)
- Jones, John E. (See Jones, Edward A. and J. E.)
- Jones, John E., Throop, Pa. Fender. No. 1,148,091; July 27; Gaz. vol. 216; p. 1160.
- Jones, John L., assignor to Dominion Paper Box Company, Limited, Toronto, Ontario, Canada. Paper box. No. 1,141,343; June 1; Gaz. vol. 215; p. 91.
- Jones, John T., Iron Mountain, Mich., assignor to New Metals-Process Company, Chicago, Ill. Boiler. No. 1,147,326; July 20; Gaz. vol. 216; p. 860.
- Jones, John W. (See Sinclair, Bert L., assignor.)
- Jones, John W., A. E. and W. W. Price, East Liverpool, Ohio. Combined cleaner and paper-hanger. No. 1,134,204; Apr. 6; Gaz. vol. 213; p. 44.
- Jones, Joseph F., Jr., Bakersfield, Cal. Pump. No. 1,152,734; Sept. 7; Gaz. vol. 218; p. 130.
- Jones, Joseph H., Winthrop, and L. G. Sabbag, East Boston, Mass. Picker-check. No. 1,138,660; May 11; Gaz. vol. 214; p. 366.
- Jones, Joseph W., New Rochelle, N. Y. Shock-absorber. No. 1,140,596; May 25; Gaz. vol. 214; p. 1120.
- Jones, Joshua J., Pittsburgh, Pa., assignor, by mesne assignments, to Union Draft Gear Company. Frictional resistance device. No. 1,129,297; Feb. 23; Gaz. vol. 211; p. 1046.
- Jones, Joshua J., assignor of one-third to C. P. Trimble and one-third to B. Rutherford, Pittsburgh, Pa. Box. No. 1,126,025; Jan. 26; Gaz. vol. 210; p. 1109.
- Jones, Joshua J., assignor of one-third to B. Rutherford and one-third to C. P. Trimble, Pittsburgh, Pa. Folding box. No. 1,142,175; June 8; Gaz. vol. 215; p. 420.
- Jones, Lee H., Bloomfield, Ind. Fence-post. No. 1,150,373; Aug. 17; Gaz. vol. 217; p. 838.
- Jones, Lenora H., Wichita, Kans. Electric talking-sign. No. 1,143,201; June 15; Gaz. vol. 215; p. 819.
- Jones, Leon B. (See Jones, Edward C. and L. B.)
- Jones, Llewellyn E., J. W. Breakey, and W. F. Casey, Philadelphia, Pa. Controlling-valve. No. 1,139,876; May 18; Gaz. vol. 214; p. 832.
- Jones, Lloyd. (See Biggert and Jones.)
- Jones, Louis A., West Somerville, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for cutting in the shanks of shoes. No. 1,161,052; Nov. 23; Gaz. vol. 220; p. 1061.
- Jones, Lyman D., Bridgeport, Conn. Vehicle-spring. No. 1,145,686; July 6; Gaz. vol. 216; p. 248.
- Jones, Lyman M., assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Cutting mechanism. No. 1,147,802; July 27; Gaz. vol. 216; p. 1055.
- Jones, Major E., et al. (See Garros, Benjamin, assignor.)
- Jones, Marcellus W., Carthage, Mo. Trip-hook. No. 1,144,415; June 29; Gaz. vol. 215; p. 1293.
- Jones, Martin A., McGregor, Tex. Safety appliance. No. 1,156,082; Oct. 12; Gaz. vol. 219; p. 290.
- Jones, Martin A., McGregor, Tex. Cotton-chopper. No. 1,163,240; Dec. 7; Gaz. vol. 221; p. 177.
- Jones, Marvel M., Denver, Mo. Armor for vehicle-wheels. No. 1,146,076; July 13; Gaz. vol. 216; p. 406.
- Jones, Mary F., Washington, D. C. Tether-stake. No. 1,155,421; Oct. 5; Gaz. vol. 219; p. 34.
- Jones, Melvin C. (See Rumbough and Jones.)
- Jones, Milton D., assignor to McMyier Interstate Company, Cleveland, Ohio. Car-haulage system. No. 1,125,110; Jan. 19; Gaz. vol. 210; p. 749.
- Jones, Morgan J., Kingman, Ariz. Nut-lock. No. 1,128,607; Feb. 16; Gaz. vol. 211; p. 768.
- Jones, Morgan L., Neath, Wales, assignor of one-third to J. M. Fells and one-third to W. H. Patchell, London, England. Means or apparatus for cleaning tinned plates. No. 1,162,070; Nov. 30; Gaz. vol. 220; p. 1466.
- Jones, Nellie, et al. (See Lamar, Leonard A., assignor.)
- Jones, Newton W., Frankfort, Ind. Stock-rack. No. 1,150,203; Aug. 17; Gaz. vol. 217; p. 780.
- Jones, Noah M., Cranfills Gap, Tex. Well-drilling register. No. 1,164,002; Dec. 14; Gaz. vol. 221; p. 489.
- Jones, Noley. (See McCune and Jones.)
- Jones, Oliver, Chandler, Ariz. Telescope-sight for firearms. No. 1,129,298; Feb. 23; Gaz. vol. 211; p. 1047.
- Jones, Oliver E., Trinity Valley, British Columbia, Canada. Life-raft. No. 1,152,095; Aug. 31; Gaz. vol. 217; p. 1534.
- Jones, Pearl N., Pittsburgh, Pa. Passenger-car. No. 1,130,296; Mar. 2; Gaz. vol. 212; p. 153.
- Jones, Pearl N., Pittsburgh, Pa. Braking apparatus for electrically-propelled vehicles. No. 1,152,096; Aug. 31; Gaz. vol. 217; p. 1534.
- Jones, Pearl N., F. R. Phillips, and J. W. Welsh, Pittsburgh, Pa. Double-deck passenger-car. No. 1,150,679; Aug. 17; Gaz. vol. 217; p. 945.
- Jones, Pearl N., F. R. Phillips, and J. W. Welsh, Pittsburgh, Pa. Passenger-car. No. 1,150,680; Aug. 17; Gaz. vol. 217; p. 945.
- Jones, Presley T., Fulton, Ky. Baling-press. No. 1,137,059; Apr. 27; Gaz. vol. 213; p. 1175.
- Jones, Ralph A., East Aurora, N. Y. Motor-propelled lawn-mower. No. 1,127,260; Feb. 2; Gaz. vol. 211; p. 210.
- Jones, Ralph E., Manhattan, Kans. Safety watch-pocket. No. 1,134,458; Apr. 6; Gaz. vol. 213; p. 137.
- Jones, Richard E. (See Hughes and Jones.)
- Jones, Richard E., Hagerstown, Md. Self-adjusting spring-hinge. No. 1,139,296; May 11; Gaz. vol. 214; p. 590.
- Jones, Richard E., assignor to Dexter Folder Company, Pearl River, N. Y. Feeding attachment for printing-presses and the like. No. 1,143,630; June 22; Gaz. vol. 215; p. 991.
- Jones, Richard E., and G. A. Martin, assignors to Dexter Folder Company, Pearl River, N. Y. Slow-down and sheet-straightening device. No. 1,135,811; Apr. 13; Gaz. vol. 213; p. 655.
- Jones, Richard G., Los Angeles, Cal. Apparatus for refining petroleum. No. 1,166,375; Dec. 28; Gaz. vol. 221; p. 1402.
- Jones, Robert M., Niagara Falls, N. Y. Making building-blocks. No. 1,162,172; Nov. 30; Gaz. vol. 220; p. 1502.
- Jones, Roy D., Cuyahoga Falls, Ohio. Reversible counter-shaft gearing. No. 1,152,735; Sept. 7; Gaz. vol. 218; p. 131.
- Jones, Ruel A., Covington, Ky. Wrapping and labeling machine. No. 1,162,611; Nov. 30; Gaz. vol. 220; p. 1650.
- Jones, Seth T., Clinton, Ill. Muffler for shotguns. No. 1,130,609; Mar. 2; Gaz. vol. 212; p. 269.
- Jones' Sewing Machine Company Limited. (See Hall, James, assignor.)
- Jones, Sidney E. (See Moldenhauer and Jones.)
- Jones Shark-Skin Grip Co., The. (See Jones, Warren C., assignor.)
- Jones Signal System Company. (See Jones, Elmer M., assignor.)
- Jones, Thomas E., Cincinnati, Ohio. Pumping device. No. 1,158,690; Nov. 2; Gaz. vol. 220; p. 98.
- Jones, Thomas Q., Tullahoma, Tenn. Stiffener for horse-collars. No. 1,135,190; Apr. 13; Gaz. vol. 213; p. 438.
- Jones, Walter A. (See De Vaughn, Harry E., assignor.)
- Jones, Warren C., assignor to The Jones Shark-Skin Grip Co., Inc., San Francisco, Cal. Eyeglass-rim. No. 1,129,402; Feb. 23; Gaz. vol. 211; p. 1084.
- Jones, Washington I., Rushville, N. Y. Mechanically-operated scissors. No. 1,129,684; Feb. 23; Gaz. vol. 211; p. 1179.
- Jones, Washington I., Rushville, N. Y. Shears. No. 1,129,685; Feb. 23; Gaz. vol. 211; p. 1179.
- Jones, Whitfield E., Jr., Etna, assignor to Pittsburgh Can Company, Pittsburgh, Pa. Stacking cans. No. 1,156,690; Oct. 12; Gaz. vol. 219; p. 501.
- Jones, Wiley C., et al. (See Purselley, James, assignor.)
- Jones, Will L., Douglas, Ariz. Compressed-air and suction water-elevator. No. 1,135,023; Apr. 13; Gaz. vol. 213; p. 381.
- Jones, William D., and J. G. Grimley; said Jones assignor to I. N. Williams, New York, N. Y. Lock for automobiles. No. 1,159,041; Nov. 2; Gaz. vol. 220; p. 218.
- Jones, William G., Oak Park, assignor to Accounting Devices Company, Evanston, Ill. Binder. No. 1,155,067; Sept. 28; Gaz. vol. 218; p. 1044.
- Jones, William G., Oak Park, assignor to Accounting Devices Company, Evanston, Ill. Binder. No. 1,155,068; Sept. 28; Gaz. vol. 218; p. 1044.
- Jones, William G. A., Denver, Colo. Combined easel and paint-box holder. No. 1,128,324; Feb. 16; Gaz. vol. 211; p. 672.

- Jones, William H., Youngstown, Ohio. Ice-cream freezer. No. 1,162,368; Nov. 30; Gaz. vol. 220; p. 1569.
- Jones, William K., Wichita, Kans. Combination-suit. No. 1,142,580; June 8; Gaz. vol. 215; p. 562.
- Jones, William K., Wichita, Kans. Combination-suit. No. 1,145,771; July 6; Gaz. vol. 216; p. 279.
- Jones, William M., Checotah, Okla. Hair-spring-removing tool. No. 1,144,548; June 29; Gaz. vol. 215; p. 1338.
- Jones, William R., Marion, Mich. Motor-plow. No. 1,123,748; Jan. 5; Gaz. vol. 210; p. 188.
- Jones, William R., Marion, Mich. Agricultural machine. No. 1,127,630; Feb. 9; Gaz. vol. 211; p. 326.
- Jones, William R., Marion, Mich. Mower and tedder. No. 1,137,630; Apr. 27; Gaz. vol. 213; p. 1377.
- Jones, William W., New Castle, Pa. Car-replacer. No. 1,150,037; Aug. 17; Gaz. vol. 217; p. 719.
- Jones, Willis, *et al.* (See Saint, Lee G., assignor.)
- Jones, Zachariah F., Scottsville, Va. Farm-gate. No. 1,149,449; Aug. 10; Gaz. vol. 217; p. 446.
- Jonsson, Olaf, Milwaukee, Wis. Motor-sleigh. No. 1,163,411; Dec. 7; Gaz. vol. 221; p. 236.
- Joss, George, Fountain City, Wis. Gearing. No. 1,143,280; June 15; Gaz. vol. 215; p. 846.
- Joost, William E. (See Bradshaw and Joost.)
- Jopling, Pearson, assignor of one-half to M. Hoffman, Rock Island, Ill. Coal and rock drill. No. 1,135,530; Apr. 13; Gaz. vol. 213; p. 555.
- Jordahl, Anders, Berlin-Wilmersdorf, Germany. Means for suspending objects from reinforced concrete structures. No. 1,155,243; Sept. 28; Gaz. vol. 218; p. 1103.
- Jordan, David, Sweetwater, Tex. Oil-burner. No. 1,144,361; June 29; Gaz. vol. 215; p. 1275.
- Jordan, Edward, Newton, New South Wales, Australia. Laundry-dripboard. No. 1,138,661; May 11; Gaz. vol. 214; p. 366.
- Jordan, George G. (See Johnson, Henry P., assignor.)
- Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Azo dyes. No. 1,127,261; Feb. 2; Gaz. vol. 211; p. 210.
- Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Azo coloring-matters. No. 1,147,803; July 27; Gaz. vol. 216; p. 1055.
- Jordan, Howard M., *et al.* (See Brooks, John F., assignor.)
- Jordan, James A., Croydon, England. Garment-stretcher. No. 1,150,205; Aug. 17; Gaz. vol. 217; p. 780.
- Jordan, John D., *et al.* (See Suggs, James A., assignor.)
- Jordan, John E. (See Deacon and Jordan.)
- Jordan, Seth N., Lowell, Mass. Switch. No. 1,127,631; Feb. 9; Gaz. vol. 211; p. 378.
- Jordan, Seth N., Lowell, Mass. Automatic temperature-controlling system. No. 1,162,071; Nov. 30; Gaz. vol. 220; p. 1466.
- Jordan, Thomas N., Long Beach, Miss. Tire. No. 1,165,512; Dec. 28; Gaz. vol. 221; p. 1094.
- Jordan, William. (See Degenhardt and Jordan.)
- Jorgensen, Hans C., Montreal, Quebec, Canada. Float. No. 1,143,830; June 22; Gaz. vol. 215; p. 1060.
- Jorgensen, Olaf E., Glasgow, Scotland, assignor to The Atlas Mercantile Company, Limited, London, England. Piston for internal-combustion engines. No. 1,155,244; Sept. 28; Gaz. vol. 218; p. 1104.
- Jorgensen, Thorleif B., Chicago, Ill. Mixing device. No. 1,125,337; Jan. 19; Gaz. vol. 210; p. 832.
- Jorgensen, Walter R., Chicago, Ill. Recoil-pad for guns. No. 1,156,293; Oct. 12; Gaz. vol. 219; p. 360.
- Jorn, Albrecht, North Chicago, Ill. Bottle-capping machine. No. 1,159,844; Nov. 9; Gaz. vol. 220; p. 538.
- Joron, Jules A., Paris, France. Pressure-button. No. 1,146,712; July 13; Gaz. vol. 216; p. 627.
- Jorstad, Henry, Stanhope, Iowa. Pool-table-pocket light. No. 1,163,412; Dec. 7; Gaz. vol. 221; p. 237.
- Jory, George W., Marysville, Cal. Ditcher and grader. No. 1,146,261; July 13; Gaz. vol. 216; p. 471.
- Jos. N. Smith Company. (See Ackerman and Chamberlin, assignors.)
- Joseph, Carl, Bayonne, N. J. Toggle-bolt. No. 1,145,423; July 6; Gaz. vol. 216; p. 156.
- Joseph Dick Manufacturing Company, The. (See Dick, Joseph, assignor.)
- Joseph E. Smyth Company. (See Smyth, Joseph E., assignor.)
- Joseph, Frank, Oakland, Cal. Lock for milk-can lids. No. 1,149,981; Aug. 10; Gaz. vol. 217; p. 639.
- Joseph, Harry F., assignor of one-half to H. P. Johansen, Davenport, Iowa. Floor-cleansing apparatus. No. 1,149,835; Aug. 10; Gaz. vol. 217; p. 536.
- Joseph Knittel Show Case Company. (See Schraag, Charles H., assignor.)
- Joseph, Louis L., Chicago, Ill. Knife. No. 1,128,788; Feb. 16; Gaz. vol. 211; p. 830.
- Joseph, Louis L., Chicago, Ill. Bank. No. 1,152,097; Aug. 31; Gaz. vol. 217; p. 1535.
- Joseph, Louis L., Chicago, Ill. Spinning-top. No. 1,160,618; Nov. 16; Gaz. vol. 220; p. 862.
- Joseph N. Smith & Company. (See Ackerman, Edward L., assignor.)
- Joseph N. Smith & Company. (See Shand, James, assignor.)
- Joseph Reid Gas Engine Company. (See Platt, Wilber O., assignor.)
- Joseph, William E., Hemlock, Ohio. Mattress. No. 1,154,776; Sept. 28; Gaz. vol. 218; p. 945.
- Josephs, Lyman C., Jr., Schenectady, N. Y., assignor to General Electric Company. Distributing device. No. 1,164,286; Dec. 14; Gaz. vol. 221; p. 587.
- Josephson, Joseph, *et al.* (See Zwerdling, Louis C., assignor.)
- Josey, Jackson E., and R. C. Miller, Beaumont, Tex. Feed-cooler. No. 1,145,772; July 6; Gaz. vol. 216; p. 279.
- Joslin, Frank M. (See Inman and Joslin.)
- Joslin, Omar T., Cincinnati, Ohio. Producing fat or oil substances. No. 1,152,023; Aug. 31; Gaz. vol. 217; p. 1509.
- Joslin, William H., Providence, R. I. Carrier for braiding-machines. No. 1,137,490; Apr. 27; Gaz. vol. 213; p. 1330.
- Joslyn, Howard, and C. L. Lynch, Seattle, Wash. Selective signal-transmitting apparatus. No. 1,133,034; Mar. 23; Gaz. vol. 212; p. 1251.
- Josse, Emil, and W. Gensecke, Charlottenburg, Germany. Nozzle. No. 1,155,735; Oct. 5; Gaz. vol. 219; p. 143.
- Josselson, Abraham. (See Rakowsky, Louis, assignor.)
- Jost, Hermann, Berlin-Tempelhof, assignor to "Eumebav." Elektrische Niet- und Meissel-Hammer Verwertungs-Gesellschaft mit beschränkter Haftung, Dusseldorf-Oberkassel, Germany. Mechanical hammer. No. 1,123,547; Jan. 5; Gaz. vol. 210; p. 120.
- Jost, Wilhelm, Berlin, Germany, assignor to General Electric Company. Contact feeding mechanism for base-making machines. No. 1,151,273; Aug. 24; Gaz. vol. 217; p. 1205.
- Jostad, Abel M., West Salem, Wis. Bolster. No. 1,140,831; May 25; Gaz. vol. 214; p. 1200.
- Joswich, Felix, St. Paul, Minn. Internal-combustion engine. No. 1,139,770; May 18; Gaz. vol. 214; p. 794.
- Joubert, Joseph F., San Francisco, Cal. Shirt-bosom-ironing machine. No. 1,158,054; Oct. 26; Gaz. vol. 219; p. 1072.
- Jouffret, Henri V. J., Paris, France. Piston for engines. No. 1,153,795; Sept. 14; Gaz. vol. 218; p. 544.
- Joughins, George R., Moncton, New Brunswick, Canada. Car-roof. No. 1,136,962; Apr. 27; Gaz. vol. 213; p. 1139.
- Jourdin, Willis W., *et al.* (See McCallum, Jean, assignor.)
- Journal Lubricator Company. (See Loedige, Frederick, assignor.)
- Jowski, Michael, North Tonawanda, N. Y. Mail-bag catcher. No. 1,138,296; May 4; Gaz. vol. 214; p. 201.
- Joy, Charles A., Park, Wash. Automatic valve-gear. No. 1,155,245; Sept. 28; Gaz. vol. 218; p. 1104.
- Joy, Charles H. (See De Launty, Oliver M., assignor.)
- Joy, George H., New Haven, Conn. Air-heater for carbureters. No. 1,159,773; Nov. 9; Gaz. vol. 220; p. 512.
- Joy, Henry B., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,161,389; Nov. 23; Gaz. vol. 220; p. 1183.
- Joy, Henry W., Hampton-on-Thames, England. Cinematograph and the like. No. 1,124,621; Jan. 12; Gaz. vol. 210; p. 542.
- Joyce, Frank I., Dayton, Ohio. Head for lifting-jacks. No. 1,137,491; Apr. 27; Gaz. vol. 213; p. 1331.
- Joyce, Robert, Philadelphia, Pa. Gas-heated iron. No. 1,127,998; Feb. 9; Gaz. vol. 211; p. 508.
- Joyce, Robert, Philadelphia, Pa. Gas-heated iron. No. 1,155,580; Oct. 5; Gaz. vol. 219; p. 88.
- Joyce, Victor E., London, England. Apparatus for electrically igniting miners' safety-lamps. No. 1,154,992; Sept. 28; Gaz. vol. 218; p. 1017.
- Joyce, Victor E., London, England, assignor to The Electric Heat Storage Company, New York, N. Y. Mixing valve or cock. No. 1,126,478; Jan. 26; Gaz. vol. 210; p. 1272.
- Joyner, Albert H. W., Toronto, Ontario, Canada. Pole-top lamp-fixture. No. 1,125,111; Jan. 19; Gaz. vol. 210; p. 750.
- Jozsy, Alexander, New York, N. Y. Combined trunk and wardrobe. No. 1,126,479; Jan. 26; Gaz. vol. 210; p. 1273.
- Juarez, Marcus A., Oxnard, Cal. Horse-detacher. No. 1,134,134; Apr. 6; Gaz. vol. 213; p. 18.
- Jubert, Jeddie, Albany, N. Y. Fruit-picker. No. 1,159,588; Nov. 9; Gaz. vol. 220; p. 444.
- Jubinville, Hildaige, Dracut, Mass. Center and axis indicator. No. 1,141,396; June 1; Gaz. vol. 215; p. 111.
- Judd, Alvin B. and W. E., assignors of one-third to W. H. White, Spokane, Wash. Game-ball-pitching machine. No. 1,146,262; July 13; Gaz. vol. 216; p. 471.
- Judd, Frank E., Windom, Minn. Controlling mechanism for throttle-valves. No. 1,139,685; May 18; Gaz. vol. 214; p. 765.
- Judd, Frank H., *et al.* (See Woolf, Frank H., assignor.)
- Judd, George E., Glendale, Cal. Intermittent-grip device. No. 1,128,325; Feb. 16; Gaz. vol. 211; p. 672.
- Judd, Henry S., and H. Pleisch, assignors to Judd Laundry Machine Company, Chicago, Ill. Laundry-machine. No. 1,131,842; Mar. 16; Gaz. vol. 212; p. 767.

Alphabetical list of patentees—Continued.

- Judd, Henry S., and H. Pleitsch, assignors to Judd Laundry Machine Company, Chicago, Ill. Driving mechanism for washing-machines. No. 1,147,406; July 20; Gaz. vol. 216; p. 892.
- Judd Laundry Machine Company. (See Judd and Pleitsch, assignors.)
- Judd, William E. (See Judd, Alvin B. and W. E.)
- Judd, William J., Hillsdale, N. J. Mixer. No. 1,127,009; Feb. 2; Gaz. vol. 211; p. 122.
- Judd, William J., New York, N. Y. Mixer. No. 1,126,102; Feb. 23; Gaz. vol. 211; p. 978.
- Jude, Alexander, assignor to Belliss & Morcom Limited, Birmingham, England. Turbine-stator blading. No. 1,124,029; Jan. 5; Gaz. vol. 210; p. 282.
- Judevine, Henry W., Edgar Springs, Mo. Broom. No. 1,133,035; Mar. 23; Gaz. vol. 212; p. 1251.
- Judge, Franklin. (See Wells and Judge.)
- Judge, James L., Minneapolis, Minn. Seal for steam-radiators. No. 1,134,135; Apr. 6; Gaz. vol. 213; p. 19.
- Judia, George H., Cisco, assignor of one-half to B. S. Huey, Houston, Tex. Cover for syrup-pitchers. No. 1,131,383; Mar. 9; Gaz. vol. 212; p. 568.
- Judick, Richard W., assignor of one-fourth to C. P. Seyler, Pittsburgh, one-fourth to W. P. McIlvane, Aspinwall, and one-fourth to M. R. Nolan, Glenshaw, Pa. Nut-lock. No. 1,126,225; Jan. 26; Gaz. vol. 210; p. 1184.
- Judik, András. (See Szabo and Judik.)
- Judson, Charles F., Eagle, Idaho. Cooking-hood. No. 1,124,912; Jan. 12; Gaz. vol. 210; p. 645.
- Judson, Charles F., Eagle, Idaho. Lawn-mower sharpener. No. 1,152,736; Sept. 7; Gaz. vol. 218; p. 131.
- Judson Governor Company. (See Osborne, John L., assignor.)
- Judson L. Thomson M'fg Co. (See Bartel, William F., assignor.)
- Judson L. Thomson M'fg Co. (See Gooding, Charles S., assignor.)
- Judson L. Thomson M'fg Co. (See Havener, Arthur R., assignor.)
- Juel, Peter J., Council Bluffs, assignor to H. S. Rottenborg, Atlantic, and H. C. Hansen, Brayton, Iowa. Lightning-rod cable. No. 1,135,940; Apr. 13; Gaz. vol. 213; p. 698.
- Juengst, Charles A., Croton Falls, N. Y. Delivery mechanism for signature-gathering or other machines. No. 1,126,026; Jan. 26; Gaz. vol. 210; p. 1109.
- Juengst, Charles A., Croton Falls, N. Y. Signature-conveying and wire-stitching machine. (Reissue.) No. 1,136,677; Aug. 24; Gaz. vol. 217; p. 1307.
- Juengst, Charles A., assignor to Higley Machine Company, Croton Falls, N. Y. Sprocket-wheel. No. 1,128,789; Feb. 16; Gaz. vol. 211; p. 831.
- Juergens, August H. E. (See Hottmann, Charles W., assignor.)
- Juergens, Herman H., Fort Wayne, Ind. Truck. No. 1,146,077; July 13; Gaz. vol. 216; p. 406.
- Juergens, Winfred H., Cleveland, Ohio. Pipe-threading die-stock. No. 1,125,112; Jan. 19; Gaz. vol. 210; p. 750.
- Juhász, Johan, and J. Horváth, Scalp Level, Pa. Rail-joint. No. 1,141,714; June 1; Gaz. vol. 215; p. 223.
- Juhász, John, New York, N. Y. Carbureter. No. 1,144,206; June 22; Gaz. vol. 215; p. 1193.
- Jullan, Arthur, Seattle, Wash. Electrical alarm system. No. 1,150,204; Aug. 17; Gaz. vol. 217; p. 780.
- Julian, Gideon J., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing machine. No. 1,145,996; July 13; Gaz. vol. 216; p. 377.
- Julien, Bartholomew. (See McKeen and Julien.)
- Julius Kayser & Co. (See Keeton, James, assignor.)
- Julius Pintsch Aktiengesellschaft. (See Ulbrich, August, assignor.)
- Julien, Victor E., Cincinnati, Ohio. Slitters. No. 1,127,448; Feb. 9; Gaz. vol. 211; p. 316.
- Jüllig, Max, Vienna, Austria-Hungary. Apparatus for detecting pipe-leads or other metallic masses embedded in masonry. No. 1,126,027; Jan. 26; Gaz. vol. 210; p. 1109.
- Julstedt, Clas J. (See Mixsell and Julstedt.)
- Jumeau, Marie-F.-J.-L., l'nom-Penh, Cambodia, French Indo-China. Flying-machine. No. 1,135,191; Apr. 13; Gaz. vol. 213; p. 433.
- Jung, Alfred J., West Kensington, London, England. Workman's time-recorder and similar apparatus. No. 1,155,660; Oct. 5; Gaz. vol. 219; p. 116.
- Jung, Karl, assignor to The General Composing Company, Gesellschaft mit beschränkter Haftung, Berlin, Germany. Automatic lathe. No. 1,140,463; May 25; Gaz. vol. 214; p. 1073.
- Jung, Karl, assignor to The General Composing Company, Gesellschaft mit beschränkter Haftung, Berlin, Germany. Automatic machine for profile-turning. No. 1,152,641; Sept. 7; Gaz. vol. 218; p. 96.
- Jung, Karl, assignor to General Composing Company, G. m. b. H., Berlin, Germany. Frame for shaping-machines. No. 1,164,003; Dec. 14; Gaz. vol. 221; p. 489.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Valve-operating mechanism. No. 1,133,288; Mar. 30; Gaz. vol. 212; p. 1376.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Valve-operating mechanism. No. 1,157,941; Oct. 26; Gaz. vol. 219; p. 1032.
- Jugbhans, Arthur, Schramberg, Germany. Mechanical time-fuse for artillery-projectiles. No. 1,127,999; Feb. 9; Gaz. vol. 211; p. 508.
- Jungnickel, Robert F., Minneapolis, Minn. Machine for applying crows to bottles. No. 1,140,832; May 25; Gaz. vol. 214; p. 1200.
- Junior, Adolf, Frankfort-on-the-Main, Germany. Cutting pen. No. 1,147,097; July 20; Gaz. vol. 216; p. 782.
- Junior Monarch Hay Press Co. (See Miller and Toffelmier, assignors.)
- Junkers, Hugo, Aachen, Germany. Wall for combustion-chambers. No. 1,125,113; Jan. 19; Gaz. vol. 210; p. 751.
- Junkers, Hugo, Aachen, Germany. Liquid-heating apparatus. No. 1,133,563; Mar. 30; Gaz. vol. 212; p. 1474.
- Junkers, Hugo, Aachen, Germany. Apparatus for heating liquids. No. 1,133,564; Mar. 30; Gaz. vol. 212; p. 1474.
- Junkers, Hugo, Aachen, Germany. Installation for warm-water supply. No. 1,140,597; May 25; Gaz. vol. 214; p. 1121.
- Junkers, Hugo, Aix-la-Chapelle, Germany. Internal-combustion engine. No. 1,127,772; Feb. 9; Gaz. vol. 211; p. 429.
- Junkers, Hugo, Aix-la-Chapelle, Germany. Liquid-heating apparatus. No. 1,147,734; July 27; Gaz. vol. 216; p. 1033.
- Junkers, Hugo, Aix-la-Chapelle, Germany. Fuel-igniting means of internal-combustion engines. No. 1,162,173; Nov. 30; Gaz. vol. 220; p. 1502.
- Junkin, John R., Fairbanks, Alaska. Stabilizing means for aeroplanes. No. 1,125,850; Jan. 19; Gaz. vol. 210; p. 1014.
- Junoform Company, The. (See Barlet, Natalie M., assignor.)
- Juntunen, Gustie J., Dollar Bay, Mich. Automatic whistling device. No. 1,141,344; June 1; Gaz. vol. 215; p. 91.
- Jupp, George E., New York, N. Y. Leak-stopper. No. 1,153,796; Sept. 14; Gaz. vol. 218; p. 545.
- Jurzyina, Joseph, Chicago, Ill. Quick-action wrench. No. 1,127,262; Feb. 2; Gaz. vol. 211; p. 210.
- Just, Angelo, West Hoboken, N. J. Cleaning and dyeing machine. No. 1,125,691; Jan. 19; Gaz. vol. 210; p. 959.
- Just, Heinrich, Essen-on-the-Ruhr, Germany. Gun sighting device. No. 1,158,926; Nov. 2; Gaz. vol. 220; p. 181.
- Just, Richard, Ludwigshafen-on-the-Rhine, and F. Eckhard, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Pigment and making the same. No. 1,150,863; Aug. 24; Gaz. vol. 217; p. 1067.
- Justice, George B., Raleigh, N. C. Parcel-post weighing-scale. No. 1,135,812; Apr. 13; Gaz. vol. 213; p. 655.
- Justice, Ithamar M., assignor to The Manufacturers' Equipment Company, Dayton, Ohio. Gas-burner. No. 1,148,903; Aug. 3; Gaz. vol. 217; p. 148.
- Justrie Manufacturing Company. (See Hansen, Augie L., assignor.)
- Juten, John A., Gilbert, Minn. Reinforcing protector for trace-holds. No. 1,136,425; Apr. 20; Gaz. vol. 213; p. 913.
- Juttila, Artturi, Orr, Minn. Resilient wheel. No. 1,155,246; Sept. 28; Gaz. vol. 218; p. 1105.
- K. Nut Co. (See Hawley, Charles G., assignor.)
- K. Nut Co. (See Maher, Eugene E., assignor.)
- K. D. Cabinet Company. (See Russell, Robert C., assignor.)
- K-D Motor Company. (See Knight, Margaret E., assignor.)
- K. W. Ignition Company. (See Williams, Joseph A., assignor.)
- Kaak, Georgine, San Antonio, Tex. Watch-protector. No. 1,139,187; May 11; Gaz. vol. 214; p. 555.
- Kaamoana, David, Honolulu, Hawaii. Paper-file. No. 1,162,612; Nov. 30; Gaz. vol. 220; p. 1650.
- Kabo Corset Co. (See Mortara, Hugo, assignor.)
- Kabo Corset Co. (See Murty, Ugo, assignor.)
- Kachel, Charles, Utica, N. Y. Clutch. No. 1,153,691; Sept. 14; Gaz. vol. 218; p. 507.
- Kade, Charles F., Plymouth, assignor to C. F. Kade, Jr., Sheboygan, Wis. Convertible table. No. 1,151,470; Aug. 24; Gaz. vol. 217; p. 1270.
- Kade, Charles F., Jr. (See Kade, Charles F., assignor.)
- Kadel, Byers W., Roanoke, Va. Car-truck. No. 1,124,746; Jan. 12; Gaz. vol. 210; p. 586.
- Kadel, Byers W., Roanoke county, Va. Six-wheel car-truck. No. 1,151,471; Aug. 24; Gaz. vol. 217; p. 1270.
- Kadel, Byers W., Roanoke county, Va. Brake arrangement for six-wheel car-trucks. No. 1,156,483; Oct. 12; Gaz. vol. 219; p. 429.
- Kadel, Byers W., J. A. Pilcher, and H. W. Coddington, Roanoke, Va. Low-water alarm. No. 1,127,010; Feb. 2; Gaz. vol. 211; p. 122.
- Kadlec, Friedrich, Fiume, Austria-Hungary. Motor-car. No. 1,141,248; June 1; Gaz. vol. 215; p. 56.
- Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Transmission apparatus. No. 1,142,437; June 8; Gaz. vol. 215; p. 514.

- Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Raising and lowering mechanism. No. 1,151,795; Aug. 31; Gaz. vol. 217; p. 1430.
- Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Glass-molding mechanism. No. 1,156,009; Oct. 5; Gaz. vol. 219; p. 237.
- Kaelber, Friedrich. (See Krementz and Kaelber.)
- Kaericher, George. (See Smith and Kaericher.)
- Kafader, James O., assignor of one-half to E. T. Vaughan, Fort Bidwell, Cal. Well-casing drill. No. 1,127,011; Feb. 2; Gaz. vol. 211; p. 123.
- Käfer, Franz, Veltheim, near Winterthur, and A. Wiesinger, Zollikon, near Zurich, Switzerland. Elastic press-stud. No. 1,134,049; Mar. 30; Gaz. vol. 212; p. 1642.
- Kägi, Emil, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Combustion-engine governor. No. 1,127,012; Feb. 2; Gaz. vol. 211; p. 123.
- Kahlenberg Bros. Co. (See Kahlenberg, William R., assignor.)
- Kahlenberg, William R., assignor to Kahlenberg Bros. Co., Two Rivers, Wis. Gas-engine. No. 1,163,758; Dec. 14; Gaz. vol. 221; p. 404.
- Kahler, Edward L., Milwaukee, Wis. Wire cutting and counting device. No. 1,162,929; Dec. 7; Gaz. vol. 221; p. 67.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Oven-roof. No. 1,146,170; July 13; Gaz. vol. 216; p. 439.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Incinerator. No. 1,156,691; Oct. 12; Gaz. vol. 219; p. 501.
- Kahn, Fernando H., San Francisco, Cal. Lens-fastening. No. 1,127,013; Feb. 2; Gaz. vol. 211; p. 123.
- Kahn, Fernando H., San Francisco, Cal. Lens-fastening. No. 1,132,945; Mar. 23; Gaz. vol. 212; p. 1217.
- Kahn, Isidor. (See Rothenbucher, George E. R., assignor.)
- Kahn, Myrtil, and A. Ossenbeck, Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. 2,3-oxynaphthoic-acid derivative. No. 1,140,747; May 25; Gaz. vol. 214; p. 1171.
- Kahn, Samuel, Newark, N. J. Blow-off valve. No. 1,166,221; Dec. 28; Gaz. vol. 221; p. 1347.
- Kahn, Samuel B., Chicago, Ill. Buckle. No. 1,127,895; Feb. 9; Gaz. vol. 211; p. 474.
- Kahns, Walter E., Chicago, Ill., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Lighting-fixture. No. 1,159,042; Nov. 2; Gaz. vol. 220; p. 218.
- Kahnweiler, Louis and O., New York, N. Y. Sea-anchor and oil-tank. No. 1,133,154; Mar. 23; Gaz. vol. 212; p. 1293.
- Kahnweiler, Oscar. (See Kahnweiler, Louis and O.)
- Kahrs, Henry, Dumont, N. J. Hand-hole cover for water-meters and the like. No. 1,165,783; Dec. 28; Gaz. vol. 221; p. 1190.
- Kaighn, James B., Philadelphia, Pa. Prepayment mechanism. No. 1,159,227; Nov. 2; Gaz. vol. 220; p. 284.
- Kailler, Harvey E., Chicago, Ill. Preventing the freezing of the cooling systems of automobiles. No. 1,144,939; June 29; Gaz. vol. 215; p. 1471.
- Kailor, John N., Columbus, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill. Swinging conveyer. No. 1,137,979; May 4; Gaz. vol. 214; p. 90.
- Kainer, Frederick C., South Haven, Mich. Dispensing-machine. No. 1,132,587; Mar. 23; Gaz. vol. 212; p. 1084.
- Kaipainen, Pekka, Gardner, Mass. Convertible sleigh. No. 1,127,773; Feb. 9; Gaz. vol. 211; p. 429.
- Kaiser, Carl, assignor, by mesne assignments, to M. Froese, New York, N. Y. Ash-sifter. No. 1,141,550; June 1; Gaz. vol. 215; p. 165.
- Kaiser, Carl, assignor to M. Froese, New York, N. Y. Milk safe. No. 1,141,551; June 1; Gaz. vol. 215; p. 165.
- Kaiser, Charles A., Philadelphia, Pa. Electromagnet. No. 1,164,556; Dec. 14; Gaz. vol. 221; p. 612.
- Kaiser, Charles E. (See Robinson and Kaiser.)
- Kaiser, Edward F. W., St. Louis, Mo. Printer's furniture. No. 1,128,000; Feb. 9; Gaz. vol. 211; p. 509.
- Kaiser, Henry G., Elk Rapids, Mich. Drill-press. No. 1,144,602; June 29; Gaz. vol. 215; p. 1355.
- Kaiser, Joseph M., Chicago, Ill. Article-holder. No. 1,155,581; Oct. 5; Gaz. vol. 219; p. 89.
- Kaiser, Leonard, Lauscha, Germany. Erasing-tool. No. 1,151,364; Aug. 24; Gaz. vol. 217; p. 1235.
- Kaiser, Paul G., and B. E. Reuter, Chicago, Ill. Apparatus for treating fats and oils. No. 1,156,905; Oct. 19; Gaz. vol. 219; p. 606.
- Kaiser, Robert J. K. L., Geneva Switzerland. Speed-indicator. No. 1,159,391; Nov. 9; Gaz. vol. 220; p. 374.
- Kaiser, Theodor, Warblingen, Germany. Fly-catcher. No. 1,128,454; Feb. 16; Gaz. vol. 211; p. 716.
- Kaiser, William O., and G. F. Stroebel, Burlington, Iowa. Beverage and preparing same. No. 1,146,171; July 13; Gaz. vol. 216; p. 439.
- Kaiser, William O., and G. F. Stroebel, Burlington, Iowa. Unfermented beverage. No. 1,164,193; Dec. 14; Gaz. vol. 221; p. 555.
- Kaiser, William O., and G. F. Stroebel, Burlington, Iowa. Beverage. No. 1,164,287; Dec. 14; Gaz. vol. 221; p. 587.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic switch for telephone systems. No. 1,131,140; Mar. 9; Gaz. vol. 212; p. 484.
- Kaisling, William, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Electrical switch-key. No. 1,138,224; May 4; Gaz. vol. 214; p. 175.
- Kaisling, William, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Indicating-relay. No. 1,141,119; June 1; Gaz. vol. 215; p. 10.
- Kaisling, William, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Ignition-timer. No. 1,144,135; June 22; Gaz. vol. 215; p. 1167.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Cleaning-tool for jack-contacts. No. 1,151,274; Aug. 24; Gaz. vol. 217; p. 1206.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Operator's calling device. No. 1,154,250; Sept. 21; Gaz. vol. 218; p. 736.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,158,927; Nov. 2; Gaz. vol. 220; p. 181.
- Kajdacsy, Karl von, Kiel, assignor, by mesne assignments, to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Double-acting ball thrust-bearing. No. 1,152,995; Sept. 7; Gaz. vol. 218; p. 226.
- Kajerdt, William, New York, N. Y. Window-cleaner. No. 1,162,784; Dec. 7; Gaz. vol. 221; p. 18.
- Kajiwara, Takuma, St. Louis, Mo. Camera. No. 1,153,392; Sept. 14; Gaz. vol. 218; p. 402.
- Kajut, Joseph E. (See Thompson and Kajut.)
- Kako, Shintaro, San Francisco, Cal. Flat-iron. No. 1,143,050; June 15; Gaz. vol. 215; p. 764.
- Kalamazoo Loose-Leaf Binder Company. (See Wigginton, George P., assignor.)
- Kalamazoo Tank and Silo Co. (See Youmans, George P., assignor.)
- Kalamazoo Vegetable Parchment Co., The. (See Kindleberger, Jacob, assignor.)
- Kalashen, Mark J., Brooklyn, N. Y. Cornet. No. 1,139,297; May 11; Gaz. vol. 214; p. 590.
- Kalbach, Samuel E., assignor to Reading Crane and Hoist Works, Reading, Pa. Portable rope hoist. No. 1,153,496; Sept. 14; Gaz. vol. 218; p. 440.
- Kalbach, Samuel E., assignor to Reading Crane and Hoist Works, Reading, Pa. Combination portable rope hoist. No. 1,153,497; Sept. 14; Gaz. vol. 218; p. 440.
- Kalenborn, Arion S., San Francisco, Cal. Paper-cutter. No. 1,131,141; Mar. 9; Gaz. vol. 212; p. 485.
- Kaletsky, Cornelius M. (See Fischer and Kaletsky.)
- Kalfahs, Gustav. (See Lee, Charles A., assignor.)
- Kalfer Company. (See Fischer and Kaletsky, assignors.)
- Kalfirst, Reinhold. (See Klatt and Kalfirst.)
- Kallianjee, Tricamdas, and A. B. Paranjape, Bombay, India. Internal-combustion engine. No. 1,142,581; June 8; Gaz. vol. 215; p. 562.
- Kalina, Loeser, New York, N. Y. Folding tooth-brush. No. 1,134,459; Apr. 6; Gaz. vol. 213; p. 137.
- Kalina, Loeser, New York, N. Y. Foldable garment-hanger. No. 1,162,613; Nov. 30; Gaz. vol. 220; p. 1651.
- Kalischer, Georg, Mainkur, near Frankfurt-on-the-Main, and D. Nissen, Frankfurt-on-the-Main, Germany, assignors to Cassella Color Company. Vat dyes and making same. No. 1,129,574; Feb. 23; Gaz. vol. 211; p. 1143.
- Kalischer, Georg, Mainkur, near Frankfurt-on-the-Main, and D. Nissen, Frankfurt-on-the-Main, Germany, assignors to Cassella Color Company. Vat dyes and making same. No. 1,129,575; Feb. 23; Gaz. vol. 211; p. 1144.
- Kalisz, Stefan. (See Spiradek, Kalisz, and Wilkosz.)
- Kalle and Company, Aktiengesellschaft. (See Eichelbaum, Georg, assignor.)
- Kalle and Company, Aktiengesellschaft. (See Wray, Edward, assignor.)
- Kalle and Company Aktiengesellschaft. (See Wray and Hess, assignors.)
- Kallis, Henry, Wessington Springs, S. D. Crank and lever mechanism for windmills. No. 1,154,404; Sept. 21; Gaz. vol. 218; p. 790.
- Kallmann, Martin, deceased; P. Kallmann, Berlin, Germany, administratrix. Starting device for alternating and three-phase current motors. No. 1,127,263; Feb. 2; Gaz. vol. 211; p. 210.
- Kallmann, Martin, deceased, P. Kallmann, Berlin, Germany, administratrix. Device for the comparison of current, tension, and power by self-acting resistances. No. 1,136,810; Apr. 20; Gaz. vol. 213; p. 1049.
- Kallmann, Martin, deceased, Charlottenburg; P. Kallmann, Berlin, Germany, administratrix. Armored, flat, electrical conductor. No. 1,162,614; Nov. 30; Gaz. vol. 220; p. 1651.
- Kallmann, Paula, administratrix. (See Kallmann, Martin.)
- Kallnbach, Carl A., assignor of one-third to O. E. Erhard, Detroit, Mich. Safety attachment for pocket-books. No. 1,127,363; Feb. 2; Gaz. vol. 211; p. 213.
- Kalmus, Herbert T. (See Comstock and Kalmus.)
- Kalmus, Herbert T., Brookline, assignor to The Exolon Company, Cambridge, Mass. Electric-furnace abrasive and making the same. No. 1,149,064; Aug. 3; Gaz. vol. 217; p. 205.

Alphabetical list of patentees—Continued.

- Kalmus, Herbert T., W. L. Savell, and K. B. Blake, Kingston, Ontario, Canada, assignors to The Exolon Company, Cambridge, Mass. Making alumina. No. 1,148,092; July 27; Gaz. vol. 216; p. 1160.
- Kaltcoek, Josef. (See Seng and Kaltcoek.)
- Kaman, Max, Syracuse, N. Y. Radiator for automobiles. No. 1,149,772; Aug. 10; Gaz. vol. 217; p. 563.
- Kaminkowitz, Herman, Brooklyn, N. Y. Sleeve. No. 1,140,685; May 25; Gaz. vol. 214; p. 1150.
- Kaminski, Albert. (See Kosienski and Kaminski.)
- Kaminski, Harold, Georgetown, S. C., and F. C. Niederhauser, Jr., Paterson, N. J. Apparatus for extracting soluble constituents from vegetable, animal, or mineral substances. No. 1,161,135; Nov. 23; Gaz. vol. 220; p. 1091.
- Kaminsky, Bennett, Pittsburgh, Pa. Water-fountain. No. 1,128,001; Feb. 9; Gaz. vol. 211; p. 509.
- Kaminsky, Paul, Spandau, near Berlin, assignor to Siemens und Halske Aktiengesellschaft, Berlin, Germany. Signaling system, particularly for artillery purposes. No. 1,124,913; Jan. 12; Gaz. vol. 210; p. 645.
- Kamioka, Riube, Lake Forest, Ill. Life-saving apparatus. No. 1,144,904; June 29; Gaz. vol. 215; p. 1460.
- Kamm, Frank, Lookaba, Okla. Latch. No. 1,152,104; Aug. 31; Gaz. vol. 217; p. 1537.
- Kamm, Leo, London, England. Cinematograph apparatus. No. 1,165,513; Dec. 28; Gaz. vol. 221; p. 1094.
- Kamm, Samuel. (See Smith, Calvin, assignor.)
- Kammer, Emmett F., Tacoma, Wash. Roadway. No. 1,166,051; Dec. 28; Gaz. vol. 221; p. 1282.
- Kammerdiner, James, Fullerton, Cal. Drilling apparatus. No. 1,128,326; Feb. 16; Gaz. vol. 211; p. 672.
- Kammerer, Friedrich, Pforzheim, Germany. Annealing apparatus. No. 1,133,647; Mar. 30; Gaz. vol. 212; p. 1504.
- Kammers, John V., and J. H. Brophy, Lamont, Wash. Automatic damper. No. 1,123,749; Jan. 5; Gaz. vol. 210; p. 188.
- Kamp, John, Grand Rapids, Mich. Safety bat-pin. No. 1,133,477; Mar. 30; Gaz. vol. 212; p. 1441.
- Kamp, John C., and A. E. Finch, Buffalo, N. Y. Pulley. No. 1,151,598; Aug. 31; Gaz. vol. 217; p. 1363.
- Kampfe, August, Cleveland, Ohio. Safety device for elevators. No. 1,149,450; Aug. 10; Gaz. vol. 217; p. 446.
- Kampfe Bros. (See Groschopp, William F., assignor.)
- Kampfe, Otto, New York, N. Y. Bottle-closure. No. 1,131,708; Mar. 16; Gaz. vol. 212; p. 716.
- Kampler, Daniel M., assignor of forty-seven and one-half one-hundredths to J. Rosenwasser, New York, N. Y. Resilient tire. No. 1,154,119; Sept. 21; Gaz. vol. 218; p. 691.
- Kanapke, John. (See Carroll, Charles W., assignor.)
- Kandel, Fred, Wilkinsburg, Pa. Soldering device. No. 1,138,760; May 11; Gaz. vol. 214; p. 403.
- Kandle-Born Company. (See Kandle, Matthias M., assignor.)
- Kandle, Matthias M., Springfield, Mass., assignor of one-half to H. Turner, Philadelphia, Pa. Shoe-clamp for boot-black stands. No. 1,124,229; Jan. 5; Gaz. vol. 210; p. 353.
- Kandle, Matthias M., Longmeadow, assignor to Kandle-Born Company, Springfield, Mass. Paper-ruling machine. No. 1,127,014; Feb. 2; Gaz. vol. 211; p. 124.
- Kandle, Matthias M., assignor to Kandle-Born Company, Springfield, Mass. Paper feeding, detecting, and rejecting device for printing-presses. No. 1,145,840; July 6; Gaz. vol. 216; p. 303.
- Kandler, Edmund, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Adjusting mechanism for lens-casings. No. 1,127,449; Feb. 9; Gaz. vol. 211; p. 316.
- Kando, Kalman von, Vado Ligure, Italy, assignor to Westinghouse Machine Company, East Pittsburgh, Pa. Overhead-conductor point for electric railways. No. 1,148,876; Aug. 3; Gaz. vol. 217; p. 139.
- Kane, David L., Cincinnati, Ohio. Rule. No. 1,130,610; Mar. 2; Gaz. vol. 212; p. 270.
- Kane, Edmund J., Chicago, Ill., assignor, by mesne assignments, to International Harvester Corporation. Carbureter for internal-combustion engines. No. 1,144,549; June 29; Gaz. vol. 215; p. 1338.
- Kane, James H., Jersey City, N. J. Combination paper-hanging tool. No. 1,156,783; Oct. 12; Gaz. vol. 219; p. 532.
- Kane, John H., Wichita, Kans. Pruning device. No. 1,162,369; Nov. 30; Gaz. vol. 220; p. 1569.
- Kane, Matthew M., Rome, Ga. Water-meter box. No. 1,139,188; May 11; Gaz. vol. 214; p. 555.
- Kane, William, Philadelphia, Pa. Boiler. No. 1,123,750; Jan. 5; Gaz. vol. 210; p. 188.
- Kanellos, Peter, Los Angeles, Cal. Liquid-dispenser. No. 1,123,548; Jan. 5; Gaz. vol. 210; p. 120.
- Kankkonen, Frans, Astoria, Oreg. Exhaust-box. No. 1,133,565; Mar. 30; Gaz. vol. 212; p. 1474.
- Kann, Ralph G., Pittsburgh, Pa. Manufacturing glass. No. 1,149,451; Aug. 10; Gaz. vol. 217; p. 447.
- Kanolt, Clarence W., Washington, D. C. Changeable picture and making the same. No. 1,150,374; Aug. 17; Gaz. vol. 217; p. 839.
- Kanonenberg, Heinrich. (See Heilemann and Kanonenberg.)
- Kanze, Austin, San Francisco, Cal. Tire-tread. No. 1,143,124; June 15; Gaz. vol. 215; p. 790.
- Kapelman, Felix G., New York, N. Y. Bed-spring frame. No. 1,134,050; Mar. 30; Gaz. vol. 212; p. 1642.
- Kapelman, Felix G., New York, assignor to S. Weisglass, Brooklyn, N. Y. Corner-lock for beds. No. 1,132,274; Mar. 16; Gaz. vol. 212; p. 923.
- Kaplan, Abraham, Brooklyn, N. Y. Ship's ballasting apparatus. No. 1,154,515; Sept. 21; Gaz. vol. 218; p. 826.
- Kaplan, David, New York, N. Y. Device for polysecting any given angle. No. 1,145,369; July 6; Gaz. vol. 216; p. 136.
- Kaplan, Frank & Dunn. (See Dunn, Edward H., assignor.)
- Kaplan, Jacob, Chicago, Ill. Twisted-belt-saving device. No. 1,143,281; June 15; Gaz. vol. 215; p. 846.
- Kaplan, Morduch L., Brooklyn, N. Y. Galvanic cell. No. 1,160,999; Nov. 16; Gaz. vol. 220; p. 998.
- Kaplan, Morduch L., Brooklyn, assignor to Beacon Miniature Electric Co., Inc., New York, N. Y. Galvanic cell. No. 1,166,414; Dec. 28; Gaz. vol. 221; p. 1416.
- Kappeler, Herman. (See Dingman, Allen H., assignor.)
- Kappeler, Ida. (See Fritsch, Johann, assignor.)
- Kaps, Charles L., Cleveland, Ohio. Permutation-lock. No. 1,161,218; Nov. 23; Gaz. vol. 220; p. 1122.
- Karapetoff, Vladimir, Ithaca, N. Y., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Variable-rate integrating electricity-meter. No. 1,146,172; July 13; Gaz. vol. 216; p. 439.
- Karasinski, John. (See Zakrzewski and Karasinski.)
- Káráss, Ferdinánd. (See Radványi and Káráss.)
- Karban, Wencel J., Bryant, Wis. Life-preserving suit. No. 1,127,632; Feb. 9; Gaz. vol. 211; p. 377.
- Karcher, Arthur A., Chicago, Ill., assignor to American Tool Works, St. Joseph, Mich. Breech-loading air-gun. No. 1,143,544; June 15; Gaz. vol. 215; p. 937.
- Karcher, Otto, Canton, Ohio. Pump. No. 1,153,312; Sept. 14; Gaz. vol. 218; p. 372.
- Karcher, Otto, assignor to F. X. Volzer, Canton, Ohio. Press. No. 1,131,142; Mar. 9; Gaz. vol. 212; p. 485.
- Kardell, Henry W., St. Louis, Mo. Tractor. No. 1,153,692; Sept. 14; Gaz. vol. 218; p. 508.
- Karges, Julius J., Maywood, Mo. Display-stand. No. 1,156,083; Oct. 12; Gaz. vol. 219; p. 290.
- Karish, Isaac, Chicago, Ill. Extension-table. No. 1,154,023; Sept. 21; Gaz. vol. 218; p. 658.
- Karish, Isaac, assignor of one-half to T. Naktin, Chicago, Ill. Extension-table. No. 1,135,115; Apr. 13; Gaz. vol. 213; p. 412.
- Kariva, Yoshihei, Los Angeles, Cal. Automobile door mechanism. No. 1,138,117; May 4; Gaz. vol. 214; p. 140.
- Karl, Joseph, West Pullman, Ill. Acetylene-gas generator. No. 1,155,422; Oct. 5; Gaz. vol. 219; p. 34.
- Karlberg, Arvid E. (See Sargent and Karlberg.)
- Karlik, Johan, assignor of one-half to D. L. Rosenstein, McKees Rocks, Pa. Projectile. No. 1,140,041; May 18; Gaz. vol. 214; p. 891.
- Karlson, Henry C., Hasbrouck Heights, N. J. Pocket cigarette-making device. No. 1,150,824; Aug. 17; Gaz. vol. 217; p. 994.
- Karns, John P., assignor to J. P. Karns Tunneling Machine Co., Boulder, Colo. Rock-reamer for drill-heads. No. 1,156,147; Oct. 12; Gaz. vol. 219; p. 312.
- Karoly, John, Chicago, Ill. Tampering-preventing device for fire-alarm boxes. No. 1,149,199; Aug. 10; Gaz. vol. 217; p. 355.
- Karp, Henry, San Francisco, Cal. Bin. No. 1,156,294; Oct. 12; Gaz. vol. 219; p. 360.
- Karp, Morris, assignor to Passaic Metal Ware Company, Passaic, N. J. Means for flanging can-bodies. No. 1,162,930; Dec. 7; Gaz. vol. 221; p. 68.
- Karpen, Adolph. (See Miller, Royal R., assignor.)
- Karpen, William, Brooklyn, N. Y. Sign-board. No. 1,132,097; Mar. 16; Gaz. vol. 212; p. 856.
- Karpowicz, Marcyan, Bridgeport, Conn. Railway-tie. No. 1,152,417; Sept. 7; Gaz. vol. 218; p. 12.
- Karr, Roy, Bloomington, Ill. Receptacle-closure. No. 1,124,747; Jan. 12; Gaz. vol. 210; p. 586.
- Karrer, Paul. (See Ehrlich and Karrer.)
- Karstens, Walter W. (See Prather, Reece F., assignor.)
- Karwiese, Rudolph. (See Cowell, John W., assignor.)
- Kasack, Peter. (See Campton and McKay, assignors.)
- Kaskie, Lawrence S., Rock Valley, Iowa. Pumping mechanism. No. 1,158,228; Oct. 26; Gaz. vol. 219; p. 1133.
- Kasanszky, Tivadar, Ujpest and Sándor Bernstein, Budapest, Austria-Hungary. Construction of furniture. No. 1,136,811; Apr. 20; Gaz. vol. 213; p. 1049.
- Kase, Mahlon, Throop, Pa. Duplex grate. No. 1,128,364; Feb. 16; Gaz. vol. 211; p. 685.
- Kashian, Minas H., Amesbury, Mass. Trolley-head. No. 1,134,136; Apr. 6; Gaz. vol. 213; p. 19.
- Kaspar, Carl, Chicago, Ill. Trolley mechanism for railway-cars. No. 1,149,651; Aug. 10; Gaz. vol. 217; p. 522.
- Kasper, Walter F., assignor to Fairmont Machine Company, Fairmont, Minn. Variable-speed governor. No. 1,148,321; July 27; Gaz. vol. 216; p. 1242.
- Kassander, Leopold, assignor to The Nathan Manufacturing Company, New York, N. Y. Water-gate. No. 1,126,226; Jan. 26; Gaz. vol. 210; p. 1184.

Alphabetical list of patentees—Continued.

- Kassander, Leopold, assignor to The Nathan Manufacturing Company, New York, N. Y. Sight-feed lubricator for locomotives. No. 1,153,113; Sept. 7; Gaz. vol. 218; p. 264.
- Kassander, Leopold, and H. L. Leverett, assignors to The Nathan Manufacturing Company, New York, N. Y. Injector. No. 1,153,114; Sept. 7; Gaz. vol. 218; p. 265.
- Kasser, Joseph B. (See Kasser, Morris and J. B.)
- Kasser, Joseph B. and M. San Francisco, Cal. Life-preserver. No. 1,130,297; Mar. 2; Gaz. vol. 212; p. 158.
- Kasser, Joseph B. and M. San Francisco, Cal. Automatic compartment-inflator for ships. No. 1,135,902; Apr. 13; Gaz. vol. 213; p. 686.
- Kasser, Morris. (See Kasser, Joseph B. and M.)
- Kasser, Morris and J. B. San Francisco, Cal. Bathing-suit. No. 1,135,903; Apr. 13; Gaz. vol. 213; p. 687.
- Kasser, Morris and J. B. San Francisco, Cal. Compartment-inflator for ships. No. 1,156,602; Oct. 12; Gaz. vol. 219; p. 469.
- Kasson, C. Vallette. (See Ross, Oscar A., assignor.)
- Kasson, Livingston S., assignor to The A. L. Barber Asphalt Company, New York, N. Y. Machine for preparing road-wearing surfaces. No. 1,163,825; Dec. 14; Gaz. vol. 221; p. 429.
- Kasson, Mahlon O., Chicago, Ill. Internal-combustion motor. No. 1,152,024; Aug. 31; Gaz. vol. 217; p. 1509.
- Kast, Henry J., assignor to American Pin Company, Waterbury, Conn. Pipe-union. No. 1,157,695; Oct. 26; Gaz. vol. 219; p. 947.
- Kast, Henry J., assignor to American Pin Company, Waterbury, Conn. Floor and ceiling plate. No. 1,159,392; Nov. 9; Gaz. vol. 220; p. 374.
- Kast Insetting & Gathering Machine Company. (See Gitzendanner, Charles, assignor.)
- Kastelberg, Joseph E., Jr., Richmond, Va. Automobile-signal. No. 1,160,719; Nov. 16; Gaz. vol. 220; p. 900.
- Kästner, Alfred, and F. Stock, Essen-Rüttenscheid, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pressure-plate. No. 1,125,552; Jan. 19; Gaz. vol. 210; p. 907.
- Kastner, Henry J., Dayton, Ohio. Headlight-dimmer. No. 1,131,933; Mar. 16; Gaz. vol. 212; p. 798.
- Kastner, Samuel O., Clutier, Iowa. Lantern-slide-shifting device. No. 1,159,681; Nov. 9; Gaz. vol. 220; p. 477.
- Kastor, Hugo, New York, N. Y. Ash cart and can. No. 1,133,155; Mar. 23; Gaz. vol. 212; p. 1293.
- Kasowski, John, Chicago, Ill. Permutation-lock. No. 1,123,886; Jan. 5; Gaz. vol. 210; p. 235.
- Kaszo, Imre. (See Vécsy, Mike, assignor.)
- Kaszubski, Adam, Detroit, Mich. Device to prevent slipping. No. 1,142,967; June 15; Gaz. vol. 215; p. 735.
- Katayama, Tadahira D., Seattle, Wash. Sack. No. 1,124,140; Jan. 5; Gaz. vol. 210; p. 320.
- Katcher, Mær, New York, N. Y. Cap. No. 1,153,927; Sept. 21; Gaz. vol. 218; p. 625.
- Katchr, Clement, Oakwood, Ill. Permutation door-knob lock. No. 1,124,622; Jan. 12; Gaz. vol. 210; p. 545.
- Kate, John H., assignor of one-half to E. J. Raymond, Des Moines, Iowa. Incubator-tray. No. 1,154,927; Sept. 28; Gaz. vol. 218; p. 995.
- Kate, John H., assignor of one-half to E. J. Raymond, Des Moines, Iowa. Water-tray for incubators. No. 1,155,819; Oct. 5; Gaz. vol. 219; p. 173.
- Kathe, Georg. (See Rommeney and Kathe.)
- Katko, Stephen, Shoring, assignor of two-fifths to E. Gottesman, Brownsville, Pa. Life-boat apparatus. No. 1,152,181; Aug. 31; Gaz. vol. 217; p. 1563.
- Katz, Alex. (See Weintraub and Katz.)
- Katz, Max, Gloversville, assignor to I. Amdursky, Syracuse, N. Y. Device for holding collars on collar-bands of shirts. No. 1,126,480; Jan. 26; Gaz. vol. 210; p. 1273.
- Katzenberger, Oscar, Chicago, Ill. Lavatory-strike. No. 1,131,384; Mar. 9; Gaz. vol. 212; p. 568.
- Katzenberger, Oscar, Chicago, Ill. Double-acting lavatory-hinge. No. 1,138,484; May 4; Gaz. vol. 214; p. 268.
- Katzenberger, Oscar, Chicago, Ill. Single-acting jamb-hinge. No. 1,140,308; May 18; Gaz. vol. 214; p. 982.
- Katzenberger, Oscar, Chicago, Ill. Single-acting lavatory-hinge. No. 1,142,582; June 8; Gaz. vol. 215; p. 563.
- Katzenberger, Oscar, Chicago, Ill. Invisible surface hinge. No. 1,144,207; June 22; Gaz. vol. 215; p. 1194.
- Katzenberger, Oscar, Chicago, Ill. Alining-plate for floor-hinges. No. 1,157,548; Oct. 19; Gaz. vol. 219; p. 832.
- Katzenberger, Oscar, Chicago, Ill. Envelop. No. 1,158,229; Oct. 26; Gaz. vol. 219; p. 1133.
- Katzinger, Edward. (See Cohn, Albert, assignor.)
- Katzinger, Edward, assignor to Edward Katzinger Company, Chicago, Ill. Cake or dough filling device. No. 1,146,576; July 13; Gaz. vol. 216; p. 583.
- Katzinger, Edward, assignor to Edward Katzinger Company, Chicago, Ill. Machine for folding the corners of pans and the like. No. 1,153,313; Sept. 14; Gaz. vol. 218; p. 372.
- Kauffman, Dorrie L. (See Hitt, Marcellus M., assignor.)
- Kauffman, Horace M., South Bend, Ind. Cranking device for explosive-engines. No. 1,141,189; June 1; Gaz. vol. 215; p. 35.
- Kauffman, Ira N., Portland, Oreg. Clothes-pin. No. 1,146,713; July 13; Gaz. vol. 216; p. 628.
- Kauffman, William S., Lewisburg, Pa. Safety-deposit apparatus. No. 1,164,097; Dec. 14; Gaz. vol. 221; p. 522.
- Kauffmann, Ferdinand E., Rahway, N. J. Horseshoe. No. 1,144,416; June 29; Gaz. vol. 215; p. 1293.
- Kauder, Felix, Tralskirchen, assignor to Bosnische Elektrizitäts-Aktiengesellschaft, Vienna, Austria-Hungary. Preparation of acetic-acid anhydrid. No. 1,152,098; Aug. 31; Gaz. vol. 217; p. 1535.
- Kaufman, A. C. (See Smith, Ulysses S., assignor.)
- Kaufman, Adolph G., New York, N. Y. Hydrocarbon-lamp. No. 1,142,814; June 15; Gaz. vol. 215; p. 682.
- Kaufman, Adolph G., New York, N. Y. Hydrocarbon-lamp support. No. 1,142,815; June 15; Gaz. vol. 215; p. 682.
- Kaufman, Adolph G., New York, N. Y. Self-contained hydrocarbon-lamp. No. 1,142,816; June 15; Gaz. vol. 215; p. 682.
- Kaufman, Albert C. (See Bauer, William N., assignor.)
- Kaufman, Alfred, assignor to F. D. Mack, New York, and C. M. Frankard, Port Washington, N. Y. Hydrocarbon-vapor generator and burning device. No. 1,151,599; Aug. 31; Gaz. vol. 217; p. 1363.
- Kaufman, Anton, Philadelphia, Pa. Make-up table. No. 1,133,804; Mar. 30; Gaz. vol. 212; p. 1561.
- Kaufman, Benjamin H. (See Bennett, Theodore J., assignor.)
- Kaufman, Charles L., Hillsboro, Wash. Package-lifting device. No. 1,123,751; Jan. 5; Gaz. vol. 210; p. 189.
- Kaufman, David V., New York, N. Y. Antiskidding device. No. 1,142,583; June 8; Gaz. vol. 215; p. 563.
- Kaufman, Eugene H., assignor of one-half to H. W. Rogers and C. W. Ebeling, New York, N. Y. Sound-box. No. 1,151,472; Aug. 24; Gaz. vol. 217; p. 1271.
- Kaufman, George C. (See Pierce and Kaufman.)
- Kaufman, Isaac. (See Kaufman, Joseph S. and I.)
- Kaufman, Jesse, New York, N. Y. Collar. No. 1,153,693; Sept. 14; Gaz. vol. 218; p. 508.
- Kaufman, Jonas, New Castle, Pa. Electric-lamp guard. No. 1,159,682; Nov. 9; Gaz. vol. 220; p. 477.
- Kaufman, Joseph, New York, N. Y. Safety-razor. No. 1,161,689; Nov. 23; Gaz. vol. 220; p. 1287.
- Kaufman, Joseph S., Baltimore, Md. Manufacturing fabric belts. No. 1,133,036; Mar. 23; Gaz. vol. 212; p. 1251.
- Kaufman, Joseph S., Baltimore, Md. Camera exposure device. No. 1,164,526; Dec. 14; Gaz. vol. 221; p. 673.
- Kaufman, Joseph S. and I., Baltimore, Md. Bottle-cap. No. 1,124,141; Jan. 5; Gaz. vol. 210; p. 320.
- Kaufman, Siegmund, Birmingham, Ala. Weed-puller. No. 1,134,866; Apr. 6; Gaz. vol. 213; p. 281.
- Kaufmann, Adolf, Geneva, Switzerland. Producing 4-ketones of the quinolin series. No. 1,145,487; July 6; Gaz. vol. 216; p. 180.
- Kaufmann, Albert C., Cincinnati, Ohio. Attachment for headlights. No. 1,152,182; Aug. 31; Gaz. vol. 217; p. 1563.
- Kaufmann, Charles, Santa Ana, Cal. Primer. No. 1,164,357; Dec. 14; Gaz. vol. 221; p. 613.
- Kaufmann, Charles, Santa Ana, Cal. Lamp and lamp-support. No. 1,164,358; Dec. 14; Gaz. vol. 221; p. 613.
- Kaufmann, Emanuel, Atlanta, Ga. Unit for supporting machines. No. 1,152,099; Aug. 31; Gaz. vol. 217; p. 1535.
- Kaufmann, Emanuel, and R. J. Holt, Atlanta, Ga.; said Holt assignor to said Kaufmann. Mount for seats. No. 1,152,100; Aug. 31; Gaz. vol. 217; p. 1536.
- Kaufmann, Emanuel, and R. J. Holt, Atlanta, Ga.; said Holt assignor to said Kaufmann. Means for supporting treadle mechanism. No. 1,152,101; Aug. 31; Gaz. vol. 217; p. 1536.
- Kaufmann, Emanuel, and R. J. Holt, Atlanta, Ga.; said Holt assignor to said Kaufmann. Seat-mount. No. 1,152,102; Aug. 31; Gaz. vol. 217; p. 1536.
- Kaufmann, Emanuel, and R. J. Holt, Atlanta, Ga.; said Holt assignor to said Kaufmann. Supporting member for tables and other accessories. No. 1,152,103; Aug. 31; Gaz. vol. 217; p. 1537.
- Kaufmann, Frank J., assignor of one-half to F. C. Trautman, Amsterdam, N. Y. Glove-sewing machine. No. 1,145,148; July 6; Gaz. vol. 216; p. 61.
- Kaufmann, Frank J., and W. N. Marsden, Amsterdam, N. Y., assignors to Fownes Brothers and Company, London, England. Thread-drawing and thread-cutting mechanism for sewing-machines. No. 1,137,143; Apr. 27; Gaz. vol. 213; p. 1206.
- Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle-frame. No. 1,155,736; Oct. 5; Gaz. vol. 219; p. 143.
- Kaufmann, Max L., New York, N. Y. Receptacle for cigars or the like. No. 1,130,739; Mar. 9; Gaz. vol. 212; p. 347.
- Kaufmann, Raymond M. (See Freeble, Thomas M., assignor.)
- Kaufmann & Strauss Co. (See Imhof, Joseph A., assignor.)
- Kautzman, Philip W. (See Kraft and Kautzman.)
- Kautzsch, Karl, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Compound of silver glycocholate readily soluble in water. No. 1,161,866; Nov. 30; Gaz. vol. 220; p. 1394.

Alphabetical list of patentees—Continued.

- Kautzsch, Karl, assignor to Farbwerke Vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Compound of silver glycocholate readily soluble in water and making same. No. 1,161,867; Nov. 30; Gaz. vol. 220; p. 1394.
- Kavanagh, Joseph A., Wichita Falls, Tex. Lavatory. No. 1,161,690; Nov. 23; Gaz. vol. 220; p. 1287.
- Kawano, Koichi, and R. Nishimoto, Seattle, Wash. Hotel call-bell. No. 1,125,851; Jan. 19; Gaz. vol. 210; p. 1014.
- Kawasaki, Goro, Chicago, Ill. Mop. No. 1,137,760; May 4; Gaz. vol. 214; p. 13.
- Kawasaki, Utakichi, Seattle, Wash. Car-seat. No. 1,143,831; June 22; Gaz. vol. 215; p. 1060.
- Kawner Mfg. Co. (See Plym, Francis J., assignor.)
- Kay, Clarence H. (See Walters, Bert, assignor.)
- Kay & Totten. (See Price, William G., assignor.)
- Kaye, Frank, and R. W. Rogers, Meridian, Miss. Box. No. 1,156,531; Oct. 12; Gaz. vol. 219; p. 445.
- Kaye, James E., assignor to 3 in 1 Shoe Stretcher Company, St. Louis, Mo. Boot-tree. No. 1,147,735; July 27; Gaz. vol. 216; p. 1033.
- Kaylor, William, Muskogee, Okla. Wrench. No. 1,138,572; May 4; Gaz. vol. 214; p. 296.
- Kayser, Charles H., West Orange, N. J., assignor to Ideal Fire Detector Company. Circuit-controlling element. No. 1,143,969; June 22; Gaz. vol. 215; p. 1107.
- Kayser, Charles H., Orange, N. J., and W. H. Hampton, New York, N. Y., assignors to Ideal Fire Detector Company. Fire-detector apparatus. No. 1,143,970; June 22; Gaz. vol. 215; p. 1108.
- Kayser, Edwin C., assignor, by mesne assignments, to The Hydrogenation Company, Cincinnati, Ohio. Apparatus for the reduction of metallic oxides with hydrogen. No. 1,134,745; Apr. 16; Gaz. vol. 213; p. 242.
- Kayser, Edwin C., Beau Sejour, St. Brelade's Bay, Isle of Jersey, assignor, by mesne assignments, to Hydrogenation Company, Cincinnati, Ohio. Effecting reduction of fatty or other organic compounds. No. 1,134,746; Apr. 6; Gaz. vol. 213; p. 242.
- Kayser, Edwin C., Beau Sejour, Island of Jersey, assignor to The Procter and Gamble Company, Cincinnati, Ohio. Manufacturing soap powder. No. 1,153,625; Sept. 14; Gaz. vol. 218; p. 485.
- Kayser, Francis, Philadelphia, Pa. Attachment for pen nibs. No. 1,147,511; July 20; Gaz. vol. 216; p. 928.
- Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-holding jack. No. 1,153,928; Sept. 21; Gaz. vol. 218; p. 625.
- Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Edge-setting machine. No. 1,161,863; Nov. 30; Gaz. vol. 220; p. 1394.
- Kearney, John A., Newark, N. J., assignor to Gillis & Geoghegan, New York, N. Y. Hoisting apparatus. No. 1,150,604; Aug. 17; Gaz. vol. 217; p. 919.
- Kearney, Thomas E., and A. J. McFarlane, Berkeley, Cal. Street-car indicator. No. 1,129,987; Mar. 2; Gaz. vol. 212; p. 52.
- Kearns, Helen, and W. D. Martin, assignors to W. J. Kearns Mirror Company, Chicago, Ill. Mirror and shelf supporting frame. No. 1,153,929; Sept. 21; Gaz. vol. 218; p. 626.
- Kearns, John, Chicopee Falls, Mass. Tank and washing-drum. No. 1,160,512; Nov. 16; Gaz. vol. 220; p. 823.
- Kearns Mirror Company, W. J. (See Kearns and Martin, assignors.)
- Kearns, William, Detroit, Mich., assignor to Morgan & Wright. Spring-finger tool for tire-building machines. No. 1,162,072; Nov. 30; Gaz. vol. 220; p. 1467.
- Kearton, Cherry. (See Wheeler, Thomas E. C., assignor.)
- Keast, Alfred J., assignor of one-half to Nash, Engelhardt, Silva Mfg. Co., San Jose, Cal. Cooker. No. 1,153,177; Sept. 7; Gaz. vol. 218; p. 286.
- Keating, Edward J., Bridgeport, Conn. Window-sash lock. No. 1,147,175; July 20; Gaz. vol. 216; p. 810.
- Keating, Harry J., Chicago, Ill. Perfuming apparatus. No. 1,137,632; Apr. 27; Gaz. vol. 213; p. 1378.
- Keating, Harry J., assignor to Venn Manufacturing Company, Chicago, Ill. Check-controlled apparatus. No. 1,137,631; Apr. 27; Gaz. vol. 213; p. 1378.
- Keay, James A., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for use in the manufacture of boots and shoes. No. 1,135,024; Apr. 13; Gaz. vol. 213; p. 381.
- Keck-Gonnerman Co. (See Miller, William H., assignor.)
- Keck, James W., Auburn, Kans. Plow. No. 1,151,884; Aug. 31; Gaz. vol. 217; p. 1462.
- Keck, William M., Coalinga, Cal. Rotary drill-bit for oil-wells. No. 1,125,553; Jan. 19; Gaz. vol. 210; p. 907.
- Keck, William M., Coalinga, Cal. Pipe-wrench. No. 1,125,554; Jan. 19; Gaz. vol. 210; p. 908.
- Keck, William M., Coalinga, Cal. Winding-drum. No. 1,152,895; Sept. 7; Gaz. vol. 218; p. 190.
- Keck, William M., Coalinga, Cal. Bull-wheel gudgeon. No. 1,160,513; Nov. 16; Gaz. vol. 220; p. 824.
- Keding, Robert, Milwaukee, Wis. Device for coaling locomotives. No. 1,166,052; Dec. 28; Gaz. vol. 221; p. 1282.
- Keebaugh, Clinton, Canton, Wis. Fruit and vegetable cutter. No. 1,155,931; Oct. 5; Gaz. vol. 219; p. 211.
- Keech, Vernon. (See Behnke and Keech.)
- Keefer, Mae A., administratrix. (See Keefer, Samuel H.)
- Keefer, Samuel H., deceased, Plainfield, N. J.; M. A. Keefer, administratrix, assignor to Niles-Bement-Pond Company, New York, N. Y. Speed-dependent motor-controlling apparatus. No. 1,124,142; Jan. 5; Gaz. vol. 210; p. 320.
- Keefer, Samuel H., deceased; M. A. Keefer, Plainfield, administratrix, assignor to Niles-Bement-Pond Company, Jersey City, N. J. System of motor control. No. 1,156,484; Oct. 12; Gaz. vol. 219; p. 429.
- Keefer, Samuel H., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Hydraulic brake. No. 1,146,577; July 13; Gaz. vol. 216; p. 583.
- Keefer, Samuel H., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Friction-brake. No. 1,162,370; Nov. 30; Gaz. vol. 220; p. 1570.
- Keeler, Alonzo R., Altona, Ill. Harrow-elevator. No. 1,159,043; Nov. 2; Gaz. vol. 220; p. 219.
- Keeler Brass Company. (See Shafer, Frederick C., assignor.)
- Keeler, Clark M., Haskins, Ohio. Gardener's implement and weed-clipper. No. 1,127,015; Feb. 2; Gaz. vol. 211; p. 124.
- Keeler, Frank, Boston, Mass. Automatic signaling or releasing device for windows and the like. No. 1,153,314; Sept. 14; Gaz. vol. 218; p. 373.
- Keeler, Karl, Ann Arbor, Mich. Planimeter. No. 1,129,872; Mar. 2; Gaz. vol. 212; p. 13.
- Keeler, Karl, Ann Arbor, Mich. Automatic head-gate. No. 1,147,948; July 27; Gaz. vol. 216; p. 1107.
- Keeler, Karl, Provo, Utah. Automatic head-gate. No. 1,138,485; May 4; Gaz. vol. 214; p. 269.
- Keeler, Noah, Wallace, N. Y. Potato-digging machine. No. 1,134,205; Apr. 6; Gaz. vol. 213; p. 45.
- Keeley, William J., New York, N. Y., assignor to Auto Pneumatic Action Company. Self-playing grand piano. No. 1,133,478; Mar. 30; Gaz. vol. 212; p. 1441.
- Keen, Albert S., Detroit, Mich. Belt. No. 1,147,869; July 27; Gaz. vol. 216; p. 1079.
- Keen, Elliot, Brooklyn, N. Y. Pilot and night lamp. No. 1,147,949; July 27; Gaz. vol. 216; p. 1107.
- Keen, Lewis, and Z. Adamski, Glenlyon, Pa. Lamp-holder. No. 1,148,385; July 27; Gaz. vol. 216; p. 1264.
- Keen, Thomas A., assignor to J. Israel, New Orleans, La. Garbage-can. No. 1,146,714; July 13; Gaz. vol. 216; p. 628.
- Keen, William A., Baltimore, Md. Flushing-tank. No. 1,132,353; Mar. 16; Gaz. vol. 212; p. 951.
- Keenan, Christopher M., Detroit, Mich. Traffic-signal for automobiles. No. 1,151,953; Aug. 31; Gaz. vol. 217; p. 1483.
- Keenan, James W., Detroit, Mich. Mold for concrete basement-walls. No. 1,142,887; June 15; Gaz. vol. 215; p. 707.
- Keenan, John, New York, N. Y. Linotype-machine. No. 1,123,752; Jan. 5; Gaz. vol. 210; p. 189.
- Keenan, Thomas T., Philadelphia, Pa. Cane toy. No. 1,123,549; Jan. 5; Gaz. vol. 210; p. 120.
- Keenan, Thomas W. (See Culver, George A., assignor.)
- Keene, Archibald T., Chicago, Ill., assignor to Keene Hydraulic Transmission Company. Fluid-power transmission. No. 1,153,930; Sept. 21; Gaz. vol. 218; p. 626.
- Keene, Archibald T., Chicago, Ill., assignor to Keene Hydraulic Transmission Company. Rotary pump. No. 1,157,783; Oct. 26; Gaz. vol. 219; p. 976.
- Keene, Charles H. F., assignor to Rosenau & Loeb, Philadelphia, Pa. Looping-machine. No. 1,152,105; Aug. 31; Gaz. vol. 217; p. 1537.
- Keene, Edward S., Agricultural College, N. D. Lettering-pen. No. 1,158,230; Oct. 26; Gaz. vol. 219; p. 1133.
- Keene, Florence L., administratrix. (See Keene, Fremont O.)
- Keene, Fremont O., deceased, Freeport; F. L. Keene, Stephenson county, Ill., administratrix. Pea-separator. No. 1,143,202; June 15; Gaz. vol. 215; p. 819.
- Keene, George F., assignor of one-half to A. O. Pardey, Whitman, Mass. Cranberry-harvester. No. 1,143,403; June 15; Gaz. vol. 215; p. 890.
- Keene Hydraulic Transmission Company. (See Keene, Archibald T., assignor.)
- Keene, James H. (See Potts and Keene.)
- Keene, William J., and G. W. Schuster, assignors to Chicago Spring Butt Company, Chicago, Ill. Spring-hinge. No. 1,151,688; Aug. 31; Gaz. vol. 217; p. 1393.
- Keener, Francis M., assignor of one-half to E. G. F. Brill, Chicago, Ill. Fireproof insulating composition. No. 1,133,380; Mar. 30; Gaz. vol. 212; p. 1408.
- Keep, William J., assignor to Michigan Stove Company, Detroit, Mich. Garbage-burner. No. 1,138,662; May 11; Gaz. vol. 214; p. 366.
- Keep, William J., assignor to The Michigan Stove Company, Detroit, Mich. Electric flat-iron. No. 1,155,423; Oct. 5; Gaz. vol. 219; p. 35.
- Keep, William J., assignor to The Michigan Stove Company, Detroit, Mich. Electric cooking-range. No. 1,157,111; Oct. 19; Gaz. vol. 219; p. 678.
- Keeran, Charles R., Bloomington, Ill. Receptacle-closure. No. 1,130,611; Mar. 2; Gaz. vol. 212; p. 270.

- Keeran, Charles R., Bloomington, Ill. Lead-pencil. No. 1,130,741; Mar. 9; Gaz. vol. 212; p. 348.
- Keeran, Charles R., Bloomington, Ill. Lead-pencil. No. 1,151,016; Aug. 24; Gaz. vol. 217; p. 1118.
- Keeran, Charles R., Bloomington, Ill. Lead-pencil. No. 1,153,115; Sept. 7; Gaz. vol. 218; p. 265.
- Kees, Frederick, Minneapolis, Minn. Concrete-column clamp. No. 1,148,322; July 27; Gaz. vol. 216; p. 1242.
- Keesee, Wesley E., Los Angeles, Cal. Spring-wheel. No. 1,130,740; Mar. 9; Gaz. vol. 212; p. 348.
- Keetman, Bruno, Berlin, Treptow, assignor to Deutsche Gasgluehlicht Aktiengesellschaft (Auergesellschaft), Berlin, Germany. Obtaining radiothorium and solutions therefrom containing thorium-X. No. 1,151,187; Aug. 24; Gaz. vol. 217; p. 1176.
- Keeton, James, Sidney, assignor to Julius Kayser & Co., New York, N. Y. Knitting-machine. No. 1,154,251; Sept. 21; Gaz. vol. 218; p. 736.
- Keffer, Hillary E., Brooklyn, N. Y. Safety motor-car guard. No. 1,150,124; Aug. 17; Gaz. vol. 217; p. 750.
- Keireisz, Jules E. (See Daniels, Wilford R., assignor.)
- Keireisz, Jules E., New York, N. Y. Expansion-anchor. No. 1,153,797; Sept. 14; Gaz. vol. 218; p. 545.
- Kehler, Herbert, Warsaw, Ind. Leather-cutting machine. No. 1,141,465; June 1; Gaz. vol. 215; p. 136.
- Kehoe, Thomas J., Toledo, Ohio. Automobile-lock. No. 1,126,781; Feb. 2; Gaz. vol. 211; p. 42.
- Kehoe, Thomas J., Toledo, Ohio. Hinge. No. 1,139,771; May 18; Gaz. vol. 214; p. 794.
- Kehoe, Thomas J., Toledo, Ohio. Catch for automobile-hoods. No. 1,157,004; Oct. 19; Gaz. vol. 219; p. 641.
- Kehoe, Thomas J., Toledo, Ohio. Exhaust-muffler. No. 1,157,005; Oct. 19; Gaz. vol. 219; p. 641.
- Kehoe, Thomas J., Toledo, Ohio. Hinge. No. 1,157,006; Oct. 19; Gaz. vol. 219; p. 641.
- Kehr, Frederick C., Hartford, Wis. Tool-post for lathes. No. 1,134,460; Apr. 6; Gaz. vol. 213; p. 138.
- Kehrbahn, Alexander H., Frankfurt-on-the-Main, Germany. Machine for treating hides or leather. No. 1,147,098; July 20; Gaz. vol. 216; p. 783.
- Kehrbahn, Otto G. H. E., New Rochelle, N. Y. Electric signaling apparatus. No. 1,145,901; July 13; Gaz. vol. 216; p. 343.
- Keidel, Eberhard, Berlin, and F. Sieber, Charlottenburg, Germany, assignors to General Electric Company. Electrical winding. No. 1,159,228; Nov. 2; Gaz. vol. 220; p. 285.
- Keighley Company, The. (See Keighley, William B., assignor.)
- Keighley, William B., Vineland, N. J. Leather-splitting machine. No. 1,134,747; Apr. 6; Gaz. vol. 213; p. 243.
- Keighley, William B., assignor to The Keighley Company, Inc., Vineland, N. J. Machine for splitting and cutting leather. No. 1,129,686; Feb. 23; Gaz. vol. 211; p. 1180.
- Keigley, W. H. (See Christensen, Burney, assignor.)
- Keil, Gustav B., assignor to Federal Electric Company, Chicago, Ill. Gearing for portable power-tables. No. 1,137,862; May 4; Gaz. vol. 214; p. 48.
- Keil, Henry F., New York, N. Y. Shipper's cabinet. No. 1,131,143; Mar. 9; Gaz. vol. 212; p. 486.
- Keil, John M., Kansas City, Mo. Trip mechanism for camera-shutters. No. 1,128,790; Feb. 16; Gaz. vol. 211; p. 831.
- Keil, Lewis E., St. Paul, Minn. Rotary engine. No. 1,136,344; Apr. 20; Gaz. vol. 213; p. 832.
- Keilholtz, Pierre O. (See Ricketts, Forrest E., assignor.)
- Keilholtz, Pierre O., Baltimore, Md. Regulating boiler-pressure. No. 1,160,514; Nov. 16; Gaz. vol. 220; p. 824.
- Kelson, Meyer, New York, N. Y. Alarm device. No. 1,130,408; Mar. 2; Gaz. vol. 212; p. 197.
- Kelm, Harry J. S., Catasaqua, Pa. Tire-filler. No. 1,154,318; Sept. 21; Gaz. vol. 218; p. 759.
- Keinanen, Robert, Pequaming, Mich. Conveyor. No. 1,149,919; Aug. 10; Gaz. vol. 217; p. 616.
- Keiper, Henry B., Lancaster, Pa. Shock-absorber. No. 1,127,016; Feb. 2; Gaz. vol. 211; p. 124.
- Keiper, Henry B., Lancaster, Pa. Drill-driving mechanism. No. 1,137,330; Apr. 27; Gaz. vol. 213; p. 1274.
- Keiper, Henry B., assignor to The Champion Blower & Forge Company, Lancaster, Pa. Drilling-machine. No. 1,165,357; Dec. 21; Gaz. vol. 221; p. 1001.
- Keirstead, Oliver, Groton, Conn. Wheel-runner. No. 1,148,386; July 27; Gaz. vol. 216; p. 1265.
- Keiser, Simon, et al. (See Smith, Walton D., assignor.)
- Keislar, Mott, Phulera, India. Razor. No. 1,143,832; June 22; Gaz. vol. 215; p. 1060.
- Keislar, Mott, Phulera, India, assignor of one-half to W. A. Findlay, Stanwood, Iowa. Non-refillable bottle. No. 1,162,615; Nov. 30; Gaz. vol. 220; p. 1651.
- Keister, James, Steubenville, Ohio. Internal-combustion engine. No. 1,134,867; Apr. 6; Gaz. vol. 213; p. 281.
- Keister, James, Steubenville, Ohio. Single-valve four-cycle explosive-engine. No. 1,144,208; June 22; Gaz. vol. 215; p. 1194.
- Keiswetter, Louis D., and W. S. Roberts, Denton, Kans. Crank and lever. No. 1,145,865; July 6; Gaz. vol. 216; p. 311.
- Keitel, Otto, Wandsbek, Germany. Pressure-regulator for fermenting liquids. No. 1,147,099; July 20; Gaz. vol. 216; p. 783.
- Keith, Alexander E., Hinsdale, assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange trunking system. No. 1,151,543; Aug. 24; Gaz. vol. 217; p. 1297.
- Keith, Alexander E., assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,151,796; Aug. 31; Gaz. vol. 217; p. 1431.
- Keith, Alexander E., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. System of supervision for the apparatus of a telephone or other system. No. 1,152,385; Aug. 31; Gaz. vol. 217; p. 1635.
- Keith, Alexander E., Hinsdale, J. and C. J. Erickson, assignors, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Calling device for automatic telephone-exchanges. No. 1,151,541; Aug. 24; Gaz. vol. 217; p. 1296.
- Keith, Alexander E., and T. G. Martin, assignors, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Automatic telephone-exchange system. No. 1,151,542; Aug. 24; Gaz. vol. 217; p. 1297.
- Keith, Alfred T., Bridgewater, Mass. Adjustable strap-support. No. 1,136,963; Apr. 27; Gaz. vol. 213; p. 1139.
- Keith, Edward B., West Bloomfield, assignor of one-half to J. Watchpocket, Pontiac, Mich. Combined safety-valve and pressure-gage. No. 1,128,327; Feb. 16; Gaz. vol. 211; p. 673.
- Keith, Edward B., assignor of one-half to J. Watchpocket, Pontiac, Mich. Pressure-controller for tires. No. 1,128,455; Feb. 16; Gaz. vol. 211; p. 716.
- Keith, Fred W., Chicago, Ill. Knockdown box. No. 1,159,229; Nov. 2; Gaz. vol. 220; p. 285.
- Keith, George, assignor of one-half to J. Keith, London, England. Gas-lamp. No. 1,123,887; Jan. 5; Gaz. vol. 210; p. 235.
- Keith, George, assignor of one-half to J. Keith, London, England. Automatic lighting and extinguishing apparatus for high-pressure gas-lamps. No. 1,139,361; May 11; Gaz. vol. 214; p. 613.
- Keith, George E. (See Davis, Oscar C., assignor.)
- Keith, George H., Satsop, Wash. Cleaning and polishing composition. No. 1,146,173; July 13; Gaz. vol. 216; p. 440.
- Keith, Herbert J., Brookline, Mass. Preservation of eggs. No. 1,137,761; May 4; Gaz. vol. 214; p. 14.
- Keith, Irving L. (See Westenbiser, Oscar F., assignor.)
- Keith, James. (See Keith, George, assignor.)
- Keith, James, and D. B. Bain, London, England. Apparatus for heating or cooling air. No. 1,149,065; Aug. 3; Gaz. vol. 217; p. 206.
- Keithline, Joseph S., Askam, Pa. Filter. No. 1,133,289; Mar. 30; Gaz. vol. 212; p. 1376.
- Keithley, Herbert R. (See Bergendahl, Einar B., assignor.)
- Keithley, Herbert R., Kansas City, Mo. Compound car-wheel. No. 1,149,267; Aug. 10; Gaz. vol. 217; p. 381.
- Keizer, Lewis M., Baltimore, Md. Carbureter. No. 1,125,338; Jan. 19; Gaz. vol. 210; p. 832.
- Keizer, Lewis M., Baltimore, Md. Carbureter. No. 1,125,339; Jan. 19; Gaz. vol. 210; p. 833.
- Keizer, Lewis M., Baltimore, Md. Carbureter. No. 1,125,340; Jan. 19; Gaz. vol. 210; p. 833.
- Kekich, Thomas M., Chicago, Ill. Furnace-grate. No. 1,131,524; Mar. 9; Gaz. vol. 212; p. 617.
- Kekich, Thomas M., assignor of one-half to C. Hanssen, Aire Libre, Mexico. Smelting-furnace. No. 1,126,028; Jan. 26; Gaz. vol. 210; p. 1110.
- Kelbur Manufacturing Company. (See Kelly, William D., assignor.)
- Kelch, Alfred H., Lake View, Iowa. Tube or flue cutter. No. 1,158,504; Nov. 2; Gaz. vol. 220; p. 33.
- Kéler, Hermann von, Leverkusen, near Cologne, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Producing thionylchlorid. No. 1,125,114; Jan. 19; Gaz. vol. 210; p. 751.
- Kell, Charles L., St. Louis, Mo. Paper-fastener. No. 1,125,115; Jan. 19; Gaz. vol. 210; p. 751.
- Kellan, Edward L., Chicago, Ill. Flushing-valve. No. 1,123,753; Jan. 5; Gaz. vol. 210; p. 190.
- Kellar-Thomason Company. (See Bowen, Edward T., assignor.)
- Kellar-Thomason Company. (See Thomason, Elmer O., assignor.)
- Kellar, Victor T., assignor to The Allen Auto Specialty Company, New York, N. Y. Cover for wheel-tires. No. 1,134,748; Apr. 6; Gaz. vol. 213; p. 243.
- Kellaway, William E., and E. A. Christoph, assignors to Edward Katzinger Co., Chicago, Ill. Device for coring and slicing fruit and the like. No. 1,148,483; July 27; Gaz. vol. 216; p. 1298.
- Kelleher, Daniel, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Machine for scoring blanks of cellular board. No. 1,144,765; June 29; Gaz. vol. 215; p. 1413.
- Kelleher, John L., Le Mars, Iowa. Wringer-support. No. 1,161,390; Nov. 23; Gaz. vol. 220; p. 1184.
- Kelleher, Joseph J., Waterloo, Iowa. Automobile-jack. No. 1,129,494; Feb. 23; Gaz. vol. 211; p. 1116.

Alphabetical list of patentees—Continued.

- Kellenberger, John, assignor of one-fourth to E. R. Brock and one-fourth to E. B. Crockett, Rockland, Me. Shipping-crate. No. 1,129,687; Feb. 23; Gaz. vol. 211; p. 1180.
- Keller, Adolph, St. Louis, Mo. Tobacco-user's accessory. No. 1,163,015; Dec. 7; Gaz. vol. 221; p. 98.
- Keller Auto Company. (See Keller, Conrad, assignor.)
- Keller, Bailey, *et al.* (See Schur, Earnest H., assignor.)
- Keller, Bernhard, Duisburg-Meiderich, assignor to Maschinenfabrik Thyssen & Co., Aktiengesellschaft, Mülheim-on-the-Ruhr, Germany. Molding-machine. No. 1,129,873; Mar. 2; Gaz. vol. 212; p. 14.
- Keller, Charles R., Oxnard, and O. O. Keller, Santa Paula, Cal. Bean-harvester. No. 1,125,026; Jan. 12; Gaz. vol. 210; p. 685.
- Keller, Conrad, Weehawken, assignor to Keller Auto Company, West New York, N. J. Embroidery-pattern machine. No. 1,130,172; Mar. 2; Gaz. vol. 212; p. 114.
- Keller, Edmon W., Cripple Creek, Colo. Automatic train-stop mechanism. No. 1,134,868; Apr. 6; Gaz. vol. 213; p. 281.
- Keller, Eugene W. (See White and Keller.)
- Keller, Frank W., Kansas City, Mo. Monolithic-pipe mold. No. 1,146,263; July 13; Gaz. vol. 216; p. 471.
- Keller, George M. (See Applebaugh and Keller.)
- Keller, Henry E., and H. M. Siedschlag, U. S. Navy. Safety-float for submarines. No. 1,159,683; Nov. 9; Gaz. vol. 220; p. 478.
- Keller, Hermann A., Frankfurt-on-the-Main, Germany. Apparatus for use in extracting fruit-juices and comprising vessels for receiving the fruit and the juice. No. 1,130,519; Mar. 2; Gaz. vol. 212; p. 239.
- Keller, Huldreich, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Oblique-cut guide-channel for turbines. No. 1,151,689; Aug. 31; Gaz. vol. 217; p. 1393.
- Keller, Isaac B., assignor of one-half to G. C. Franklin, Philadelphia, Pa. Locking device for boxes and containers. No. 1,157,942; Oct. 26; Gaz. vol. 219; p. 1032.
- Keller, James H., Covington, Okla. Pruning-knife. No. 1,153,626; Sept. 14; Gaz. vol. 218; p. 486.
- Keller, Jeremiah, Chicago, Ill. Starting mechanism for motors. No. 1,135,694; Apr. 13; Gaz. vol. 213; p. 614.
- Keller, John W. (See Kilgore and Keller.)
- Keller, Joseph F., W. A. Warman, New York, and H. L. Parr, Yonkers, assignors to Keller Mechanical Engraving Company, Brooklyn, N. Y. Fluid-measuring device. No. 1,143,631; June 22; Gaz. vol. 215; p. 992.
- Keller, Julius, and J. H. Templin, assignors, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Vacuum-cleaner. No. 1,152,025; Aug. 31; Gaz. vol. 217; p. 1510.
- Keller, Karl, Arbon, Switzerland. Cutting-machine for embroidery. No. 1,153,498; Sept. 14; Gaz. vol. 218; p. 440.
- Keller, Karl, Arbon, Switzerland. Reeling device for fabric-rollers of embroidering-machines. No. 1,162,491; Nov. 30; Gaz. vol. 220; p. 1612.
- Keller, Marcus L., Toone, Tenn. Carbureter for explosive-engines. No. 1,129,103; Feb. 23; Gaz. vol. 211; p. 979.
- Keller Mechanical Engraving Company. (See Keller, Warman, and Parr, assignors.)
- Keller, Moritz, *et al.* (See Schur, Earnest H., assignor.)
- Keller, Otto O. (See Keller, Charles R. and O. O.)
- Keller, Peter, Chicago, Ill. Gas-regulator. No. 1,144,040; June 22; Gaz. vol. 215; p. 1134.
- Keller, Peter, Chicago, Ill. Gas-pressure regulator. No. 1,144,657; June 29; Gaz. vol. 215; p. 1374.
- Keller, Rudolph. (See O'Horo and Keller.)
- Keller, William H., assignor, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Dust-collector for vacuum-cleaners. No. 1,127,896; Feb. 9; Gaz. vol. 211; p. 474.
- Keller, William H., assignor, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Vacuum-cleaner. No. 1,143,833; June 22; Gaz. vol. 215; p. 1061.
- Kellermann, Frederick W., New York, N. Y. Oil-burner torch. No. 1,157,549; Oct. 19; Gaz. vol. 219; p. 833.
- Kellett, Luther M., Williford, Ark. Comb. No. 1,155,247; Sept. 28; Gaz. vol. 218; p. 1105.
- Kelley, Albert C., Gradyville, Ga. Valve connection. No. 1,151,017; Aug. 24; Gaz. vol. 217; p. 1118.
- Kelley, Arthur M., Toledo, Ohio. Panic exit-lock. No. 1,136,141; Apr. 20; Gaz. vol. 213; p. 810.
- Kelley, Charles, Bellair, Ill. assignor of one-half to H. E. Pickett, Brazil, Ind. Cooling apparatus for gas-engines. No. 1,160,291; Nov. 16; Gaz. vol. 220; p. 746.
- Kelley, Edward F., assignor to The Royal Equipment Company, Bridgeport, Conn. Friction-lining. No. 1,151,690; Aug. 31; Gaz. vol. 217; p. 1393.
- Kelley, Edward F., assignor to The Royal Equipment Company, Bridgeport, Conn. Friction-lining. No. 1,162,371; Nov. 30; Gaz. vol. 220; p. 1570.
- Kelley, Elias H., New York, N. Y. Material-testing device for vending-machines. No. 1,147,407; July 20; Gaz. vol. 216; p. 892.
- Kelley, Elmer J., Algona, Iowa. Tank-filling device. No. 1,153,116; Sept. 7; Gaz. vol. 218; p. 265.
- Kelley, Elmer W., Rochester, N. Y. Traffic-signaling system. No. 1,132,186; Mar. 16; Gaz. vol. 212; p. 890.
- Kelley, Frederick D., *et al.* (See Shannon, Charles R., assignor.)
- Kelley, George A., Joplin, Mo. Grader-frame. No. 1,127,774; Feb. 9; Gaz. vol. 211; p. 430.
- Kelley, George J., Attleboro, Mass. Knife. No. 1,139,979; May 18; Gaz. vol. 214; p. 868.
- Kelley, George W. and I. S., New York, N. Y. Railway sanitary apparatus. No. 1,138,486; May 4; Gaz. vol. 214; p. 269.
- Kelley, Harry. (See Winans and Kelley.)
- Kelley, Isaiah S. (See Kelley, George W. and I. S.)
- Kelley, James. (See Reid and Kelley.)
- Kelley, John R., Covington, Ky. Electrolytic interrupter. No. 1,138,761; May 11; Gaz. vol. 214; p. 403.
- Kelley, Joseph J., Kansas City, Mo. Boring-tool-guiding apparatus. No. 1,161,479; Nov. 23; Gaz. vol. 220; p. 1215.
- Kelley, Ralph S. (See Talley, Edward F., assignor.)
- Kelley, Rawson A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-molding machine. No. 1,137,633; Apr. 27; Gaz. vol. 213; p. 1378.
- Kelley, Robert B. (See Causey, Thomas S., assignor.)
- Kelley, Roy W., Davenport, Iowa, assignor to Western Pattern & Manufacturing Company, Moline, Ill. Sad-iron. No. 1,155,424; Oct. 5; Gaz. vol. 219; p. 35.
- Kelley, Stephen T., Great Falls, Mont. Device for watering stock. No. 1,137,214; Apr. 27; Gaz. vol. 213; p. 1231.
- Kelley, William F., Chicago, and O. L. Wood, Clinton, Ill. Locomotive-curtain. No. 1,131,525; Mar. 9; Gaz. vol. 212; p. 618.
- Kelley, William H., Reading, Pa. Lug-strap for picker-sticks. No. 1,160,903; Nov. 16; Gaz. vol. 220; p. 964.
- Kellington, George H. (See Worley and Kellington.)
- Kellogg, Alonzo F., Portage, Wis. Camera. No. 1,162,240; Nov. 30; Gaz. vol. 220; p. 1525.
- Kellogg, Alonzo F., Portage, Wis. Camera. No. 1,165,181; Dec. 21; Gaz. vol. 221; p. 942.
- Kellogg, Carl A., Battle Creek, Mich. Printing-machine. No. 1,153,315; Sept. 14; Gaz. vol. 218; p. 373.
- Kellogg, Carl A., New York, N. Y. Folding mechanism for printing-machines. No. 1,164,819; Dec. 21; Gaz. vol. 221; p. 815.
- Kellogg, Charles F. A., Gloster, Miss. Fruit-picker. No. 1,133,381; Mar. 30; Gaz. vol. 212; p. 1409.
- Kellogg, Daniel, *et al.* (See Neville, Harry, assignor.)
- Kellogg, Edwin M., Moline, Ill. Phonograph. No. 1,130,173; Mar. 2; Gaz. vol. 212; p. 115.
- Kellogg, Frank M., Battle Creek, Mich. Cereal product and making. No. 1,145,021; July 6; Gaz. vol. 216; p. 16.
- Kellogg, James G. (See Mastin, James G., assignor.)
- Kellogg, James L., New York, N. Y. Surprise and alarm device. No. 1,166,053; Dec. 28; Gaz. vol. 221; p. 1283.
- Kellogg, John H., Battle Creek, Mich. Method of therapeutic treatment and apparatus therefor. No. 1,127,897; Feb. 9; Gaz. vol. 211; p. 474.
- Kellogg, John H., Battle Creek, Mich. Manufacturing coffee substitutes. No. 1,133,037; Mar. 23; Gaz. vol. 212; p. 1252.
- Kellogg, John L., Battle Creek, Mich. Preparing powdered beverage extract. No. 1,149,066; Aug. 3; Gaz. vol. 217; p. 206.
- Kellogg, John L., Battle Creek, Mich. Cereal coffee in tablet form and manufacturing the same. No. 1,159,949; Nov. 9; Gaz. vol. 220; p. 576.
- Kellogg, John L., Battle Creek, Mich. Manufacture of beverage extracts. No. 1,163,759; Dec. 14; Gaz. vol. 221; p. 405.
- Kellogg, John L., Battle Creek, Mich. Manufacture of beverage extracts. No. 1,165,415; Dec. 28; Gaz. vol. 221; p. 1062.
- Kellogg, John L., assignor to Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Preparing shredded cereal products. No. 1,159,045; Nov. 2; Gaz. vol. 220; p. 219.
- Kellogg, John L., assignor to Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Coffee substitute or coffee cereal. No. 1,163,932; Dec. 14; Gaz. vol. 221; p. 465.
- Kellogg, Leroy D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition system. No. 1,157,696; Oct. 26; Gaz. vol. 219; p. 947.
- Kellogg, Milton, New York, N. Y. Foldable cover for dictating-machines and the like. No. 1,144,417; June 29; Gaz. vol. 215; p. 1294.
- Kellogg, Ray S., Norwalk, Ohio. Stirring device. No. 1,160,413; Nov. 16; Gaz. vol. 220; p. 788.
- Kellogg, Raymond C., and A. Johnson, New York, N. Y. Level. No. 1,162,931; Dec. 7; Gaz. vol. 221; p. 68.
- Kellogg Switchboard & Supply Co. (See Land, Edmund, assignor.)
- Kellogg Switchboard and Supply Company. (See Bradbury, Clifford C., assignor.)
- Kellogg Switchboard and Supply Company. (See Camp, Curtis B., assignor.)
- Kellogg Switchboard & Supply Company. (See Dean, William W., assignor.)
- Kellogg Switchboard & Supply Company. (See Dunbar, Francis W., assignor.)
- Kellogg Switchboard and Supply Company. (See Dyson, Alfred H., assignor.)

Alphabetical list of patentees—Continued.

- Kellogg Switchboard & Supply Company. (See Ericson, Lawrence, assignor.)
- Kellogg Switchboard and Supply Company. (See Hilbish, John E., assignor.)
- Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
- Kellogg Switchboard and Supply Company. (See Kellogg, Leroy D., assignor.)
- Kellogg Switchboard and Supply Company. (See Leaver, William, assignor.)
- Kellogg Switchboard & Supply Company. (See Leich and Hague, assignors.)
- Kellogg Switchboard & Supply Company. (See Mueller, George E., assignor.)
- Kellogg Switchboard & Supply Company. (See Munsell, Harry W., assignor.)
- Kellogg Switchboard and Supply Company. (See Schellenger, Newton C., assignor.)
- Kellogg Switchboard and Supply Company. (See Simpson, Charles A., assignor.)
- Kellogg Switchboard and Supply Company. (See Stupe, Arthur A., assignor.)
- Kellogg Switchboard and Supply Company. (See Utter, Richard L., assignor.)
- Kellogg Switchboard and Supply Company. (See Utter and Schmidt, assignors.)
- Kellogg Switchboard & Supply Company. (See Webster, Harry G., assignor.)
- Kellogg Switchboard and Supply Company. (See Winston, Charles S., assignor.)
- Kellogg Toasted Corn Flake Co. (See Kellogg, John L., assignor.)
- Kellogg Toasted Corn Flake Co. (See Valentine, Ralph E., assignor.)
- Kellogg, William S., Jr., Peoria, Ill. Carbureter. No. 1,144,477; June 29; Gaz. vol. 215; p. 1314.
- Kells, Charles E., New Orleans, La. Trocar. No. 1,147,408; July 20; Gaz. vol. 216; p. 893.
- Kells, Charles E., New Orleans, La. Apparatus for surgically cleansing surfaces. No. 1,148,093; July 27; Gaz. vol. 216; p. 1161.
- Kells, Charles E., New Orleans, La. Apparatus for surgically cleansing surfaces. No. 1,152,818; Sept. 7; Gaz. vol. 218; p. 161.
- Kellum, Orlando E., Los Angeles, Cal. Sound transmission and recording. No. 1,137,060; Apr. 27; Gaz. vol. 213; p. 1175.
- Kelly, A. H., administrator. (See Kelly, David J.)
- Kelly, Alexander M., Knoxville, and B. L. Shaner, Pittsburgh, Pa. Twine-holder. No. 1,131,843; Mar. 16; Gaz. vol. 212; p. 767.
- Kelly-Arnold Manufacturing Company, The. (See Kelly and Royer, assignors.)
- Kelly, Charles H., Springdale, Fla. Moisture-gage. No. 1,159,500; Nov. 9; Gaz. vol. 220; p. 412.
- Kelly, David J. (See Callow and Kelly.)
- Kelly, David J., deceased; A. H. Kelly, administrator, assignor to The Kelly Filter Press Company, Salt Lake City, Utah. Bearing. No. 1,130,674; Mar. 2; Gaz. vol. 212; p. 291.
- Kelly, David J., assignor to Kelly Filter Press Company, Salt Lake City, Utah. Filtering process. No. 1,158,055; Oct. 26; Gaz. vol. 219; p. 1072.
- Kelly, David J., assignor to Kelly Filter Press Company, Salt Lake City, Utah. Filtering apparatus. No. 1,159,056; Oct. 26; Gaz. vol. 219; p. 1072.
- Kelly, Edward C., Jr., assignor to Kelly Separator Company, Boston, Mass. Strainer. No. 1,134,275; Apr. 6; Gaz. vol. 213; p. 70.
- Kelly, Edward C., Jr., assignor to Kelly Separator Company, Boston, Mass. Separator-trap. No. 1,159,044; Nov. 2; Gaz. vol. 220; p. 219.
- Kelly, Edward C., Jr., assignor to Kelly Separator Company, Boston, Mass. Grease-trap. No. 1,164,527; Dec. 14; Gaz. vol. 221; p. 673.
- Kelly, Edwin W. (See Snook and Kelly.)
- Kelly, Edwin W., Philadelphia, Pa. Radiation-shield. No. 1,156,906; Oct. 19; Gaz. vol. 219; p. 606.
- Kelly, Edwin W., assignor to Snook-Roentgen Manufacturing Company, Philadelphia, Pa. X-ray tube. No. 1,160,177; Nov. 16; Gaz. vol. 220; p. 708.
- Kelly Filter Press Company. (See Kelly, David J., assignor.)
- Kelly, George B., Jamaica Plain, Mass., assignor to Acolian Company, New York, N. Y. Combined piano-player and talking-machine. No. 1,132,275; Mar. 16; Gaz. vol. 212; p. 924.
- Kelly, George E., and E. J. Emery, Wilkes-Barre, Pa. Mechanic's apron. No. 1,139,532; May 18; Gaz. vol. 214; p. 710.
- Kelly, George E., and G. F. Royer, assignors to The Kelly-Arnold Manufacturing Company, Wilkes-Barre, Pa. Train-pipe coupling. No. 1,137,406; Apr. 27; Gaz. vol. 213; p. 1302.
- Kelly, George L., New York, N. Y. Drainage-system tester. No. 1,159,950; Nov. 9; Gaz. vol. 220; p. 576.
- Kelly, George N. (See Kelly, Robert A. and G. N.)
- Kelly, George W., Elizabeth, N. J. Brake jaw or fork. No. 1,165,514; Dec. 28; Gaz. vol. 221; p. 1095.
- Kelly, Hugh W., Trenton, N. J., assignor of one-half to A. Love, New York, N. Y. Torpedo. No. 1,124,748; Jan. 12; Gaz. vol. 210; p. 587.
- Kelly, Isaac W., Lynden, Ontario, Canada. Silo-filler. No. 1,132,946; Mar. 23; Gaz. vol. 212; p. 1218.
- Kelly, James E., Mason City, Iowa. Operating mechanism for washing-machines. No. 1,138,487; May 4; Gaz. vol. 214; p. 269.
- Kelly, James M., Chicago, Ill. Extension-step. No. 1,146,429; July 13; Gaz. vol. 216; p. 529.
- Kelly, James W., Bay City, Mich. Adjustable rear seat for bicycles. No. 1,144,550; June 29; Gaz. vol. 215; p. 1339.
- Kelly, John, *et al.* (See Adkins, Oscar E., assignor.)
- Kelly, John, Norfolk, Va. Button-attaching machine. No. 1,128,456; Feb. 16; Gaz. vol. 211; p. 717.
- Kelly, John A., Philadelphia, Pa. Making shoes. No. 1,128,608; Feb. 16; Gaz. vol. 211; p. 769.
- Kelly, John A., Philadelphia, Pa. Shoe lasting and stapling machine. No. 1,128,609; Feb. 16; Gaz. vol. 211; p. 769.
- Kelly, John A., Philadelphia, Pa. Machine for affixing linings to shoe-soles. No. 1,134,619; Apr. 6; Gaz. vol. 213; p. 195.
- Kelly, John B., Chicago, Ill. Demountable wheel. No. 1,144,136; June 22; Gaz. vol. 215; p. 1168.
- Kelly, John F., Pittsfield, Mass. Device for producing electric pulsations. No. 1,134,137; Apr. 6; Gaz. vol. 213; p. 19.
- Kelly, John F., assignor to Thomas Maddock's Sons Company, Trenton, N. J. Water-closet. No. 1,155,661; Oct. 5; Gaz. vol. 219; p. 117.
- Kelly, Joseph J., Detroit, Mich. Base-ball-game apparatus. No. 1,128,457; Feb. 16; Gaz. vol. 211; p. 717.
- Kelly, Martin J., New Britain, Conn. Water-closet-controlling device. No. 1,123,550; Jan. 5; Gaz. vol. 210; p. 121.
- Kelly, Maurice F. (See Brisson, Joseph T., assignor.)
- Kelly, Michael J., South Lee, Mass. Differential drive mechanism. No. 1,134,138; Apr. 6; Gaz. vol. 213; p. 20.
- Kelly, Michael P., Chicago, Ill. Vehicle-wheel. No. 1,155,582; Oct. 5; Gaz. vol. 219; p. 89.
- Kelly, Orin, Athens, Ohio. Screen. No. 1,145,316; July 6; Gaz. vol. 216; p. 118.
- Kelly, Raymond M., Potosi, Wis. Wrench. No. 1,145,067; July 6; Gaz. vol. 216; p. 34.
- Kelly, Robert A. and G. N., assignors to N. G. White, Petersburg, Ill. Sucker-rod clutch. No. 1,150,681; Aug. 17; Gaz. vol. 217; p. 946.
- Kelly Separator Company. (See Kelly, Edward C., Jr., assignor.)
- Kelly-Springfield Motor Truck Company, The. (See Balough, Charles, assignor.)
- Kelly-Springfield Tire Company. (See Roberts, Edmund S., assignor.)
- Kelly, Thomas D., Southend-on-Sea, England. Internal-combustion engine. No. 1,136,812; Apr. 20; Gaz. vol. 213; p. 1050.
- Kelly, Thomas H., Pawtuxet, R. I. Gas-burner for ranges. No. 1,151,188; Aug. 24; Gaz. vol. 217; p. 1177.
- Kelly, Will S., Wilkes-Barre, Pa. Dental splint. No. 1,146,264; July 13; Gaz. vol. 216; p. 472.
- Kelly, William, Grand Island, Nebr. Excavator. No. 1,163,826; Dec. 14; Gaz. vol. 221; p. 429.
- Kelly, William, assignor to Maxwell Motor Company, Incorporated, Detroit, Mich. Gas-engine. No. 1,140,163; May 18; Gaz. vol. 214; p. 933.
- Kelly, William D., Jefferson, Tex. Spike-holder. No. 1,143,051; June 15; Gaz. vol. 215; p. 765.
- Kelly, William D., assignor to Burkell Manufacturing Company, Chicago, Ill. Gluing-machine. No. 1,165,416; Dec. 28; Gaz. vol. 221; p. 1062.
- Kelly, William D., assignor to Kelbur Manufacturing Company, Chicago, Ill. Gluing-machine. No. 1,166,133; Dec. 28; Gaz. vol. 221; p. 1314.
- Kelly, William J. (See Imhof and Kelly.)
- Kelly, William J., Clinton, Iowa, assignor to Lovell Manufacturing Company, Erie, Pa. Clothes-wringer. No. 1,162,492; Nov. 30; Gaz. vol. 220; p. 1612.
- Kelly, William M., New York, N. Y. Compressible type-justifying space and making the same. No. 1,130,826; Mar. 9; Gaz. vol. 212; p. 377.
- Kelly, William M., New York, N. Y. Type setting and distributing machine. No. 1,165,104; Dec. 21; Gaz. vol. 221; p. 915.
- Kelly, William M., New York, N. Y., assignor to American Type Founders Company, Jersey City, N. J. Multiple-type mold. No. 1,160,720; Nov. 16; Gaz. vol. 220; p. 901.
- Kelm, Richard E., Milwaukee, Wis. Portable sheet-metal structure. No. 1,165,881; Dec. 28; Gaz. vol. 221; p. 1224.
- Kelomasz, Jhon, Garfield, N. J. Clothes-line support. No. 1,128,458; Feb. 16; Gaz. vol. 211; p. 717.
- Keln Products Company. (See Artz, Adolph G., assignor.)
- Kelsay, Newton, Evansville, Ind. Hame. No. 1,151,473; Aug. 24; Gaz. vol. 217; p. 1271.
- Kelsey, Edgar A., Mount Vernon, assignor to Nathan Manufacturing Company, New York, N. Y. Sight-glass. No. 1,129,988; Mar. 2; Gaz. vol. 212; p. 53.
- Kelsey, Edgar A., Mount Vernon, assignor to The Nathan Manufacturing Company, New York, N. Y. Sighting device. No. 1,145,902; July 13; Gaz. vol. 216; p. 343.

Alphabetical list of patentees—Continued.

- Kelsey, George W., Jr. (See Kelsey, Ivy N., assignor.)
- Kelsey, Harry S., Brookline, Mass. Settle for lunch-rooms. No. 1,149,982; Aug. 10; Gaz. vol. 217; p. 639.
- Kelsey, Ivy N., assignor of one-half to G. W. Kelsey, Jr., Algoma, Wis. Horse fly-net. No. 1,128,328; Feb. 16; Gaz. vol. 211; p. 673.
- Kelsey, John, Detroit, Mich. Forming wheel-hubs. No. 1,129,989; Mar. 2; Gaz. vol. 212; p. 53.
- Kelsey, John, Detroit, Mich. Felly-band. No. 1,139,772; May 18; Gaz. vol. 214; p. 795.
- Kelsey, Willard A., and J. G. Stoneback, Topeka, Kans. Mattress-sewing machine. No. 1,152,418; Sept. 7; Gaz. vol. 218; p. 13.
- Kelsey, William B., Delanco, N. J. Variable-speed mechanism. No. 1,160,414; Nov. 16; Gaz. vol. 220; p. 789.
- Kelso, James E., and G. Binder, Rochester, N. Y., assignors to American Laundry Machinery Company, Cincinnati, Ohio. Clothes-dampening machine. No. 1,129,990; Mar. 2; Gaz. vol. 212; p. 53.
- Kelso, Joseph. (See Kelso, William and J.)
- Kelso, Joseph, assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,021; July 27; Gaz. vol. 216; p. 1133.
- Kelso, Joseph, assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,022; July 27; Gaz. vol. 216; p. 1133.
- Kelso, Ralph S. (See Moffatt and Kelso.)
- Kelso, Ralph S., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Trimming mechanism for sewing-machines. No. 1,129,403; Feb. 23; Gaz. vol. 211; p. 1084.
- Kelso, Ralph S., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Presser device for sewing-machines. No. 1,129,404; Feb. 23; Gaz. vol. 211; p. 1084.
- Kelso, Wilber M., Oak Park, Ill. Soap receptacle or shaker. No. 1,152,819; Sept. 7; Gaz. vol. 218; p. 161.
- Kelso, William, assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,020; July 27; Gaz. vol. 216; p. 1133.
- Kelso, William, assignor to McConway & Torley Company, Pittsburgh, Pa. Coupling-release rigging. No. 1,148,023; July 27; Gaz. vol. 216; p. 1134.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-centering device. No. 1,155,069; Sept. 28; Gaz. vol. 218; p. 1045.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-centralizing mechanism. No. 1,164,194; Dec. 14; Gaz. vol. 221; p. 555.
- Kelso, William and J., assignors to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,024; July 27; Gaz. vol. 216; p. 1134.
- Kelling, William R., New York, N. Y. Electrical plug and receptacle. No. 1,137,634; Apr. 27; Gaz. vol. 213; p. 1379.
- Keltner, George R., assignor of one-half to W. Talbot, W. S. Hedlin, and C. E. Miller, Phoenix, Ariz. Sash balance and lock. No. 1,129,688; Feb. 23; Gaz. vol. 211; p. 1180.
- Kelton, Thaddeus W., Van Buren, Ark. Temporal meter. No. 1,163,091; Dec. 7; Gaz. vol. 221; p. 124.
- Kemble, William F., and C. R. Underhill, Yonkers, N. Y. Door-lock. No. 1,154,573; Sept. 21; Gaz. vol. 218; p. 847.
- Kemerer, Frank, Kersey, Pa. Electric switch. No. 1,141,803; June 1; Gaz. vol. 215; p. 251.
- Kemming, Leonard C., Denison, Iowa. Rotary valve for gas-engines. No. 1,134,461; Apr. 6; Gaz. vol. 213; p. 138.
- Kemp, Alfred S. (See Bates and Kemp.)
- Kemp, Edward H. (See Rickon, Harold J., assignor.)
- Kemp, Fred A. (See Reeder and Kemp.)
- Kemp, Fred A., New York, N. Y., and E. C. Reeder, Chicago, Ill., assignors to Lidgerwood Manufacturing Company, New York, N. Y. Mechanical clutch. No. 1,125,555; Jan. 19; Gaz. vol. 210; p. 908.
- Kemp, Noah P., Norfolk, Va. Car-door fastening. No. 1,152,419; Sept. 7; Gaz. vol. 218; p. 13.
- Kemp, William W., and W. H. Van Horn, Baltimore, Md. Inlet and waste valve. No. 1,124,455; Jan. 12; Gaz. vol. 210; p. 481.
- Kemp, William W., and W. H. Van Horn, Baltimore, Md. Burner for gas singeing-machines. No. 1,128,791; Feb. 16; Gaz. vol. 211; p. 831.
- Kemp, William W., and W. H. Van Horn, Baltimore, Md. Adjustable singeing-burner. No. 1,135,813; Apr. 13; Gaz. vol. 213; p. 655.
- Kemp, William W., and W. H. Van Horn, Baltimore, Md. Fluid-mixing apparatus. No. 1,141,466; June 1; Gaz. vol. 215; p. 136.
- Kemper, Edward D., Stanton, Nebr. Animal-poke. No. 1,136,014; Apr. 20; Gaz. vol. 213; p. 767.
- Kemper-Thomas Company, The. (See Henderson, Charles F., assignor.)
- Kemper, Virgil A., Kansas City, Mo. Game apparatus. No. 1,137,980; May 4; Gaz. vol. 214; p. 90.
- Kempff, Edward J., et al. (See Binkley, William C., assignor.)
- Kempff, John W., Shickley, Nebr. Fender or cap for vertically-disposed drainage-pipes. No. 1,123,888; Jan. 5; Gaz. vol. 210; p. 235.
- Kempff, Fredrick L., Philadelphia, and H. W. Smith, assignors of three-eighths to M. W. Pickens and three-eighths to F. O. Horting, Harrisburg, Pa., and one-fourth to said Kempff. Film-winding apparatus. No. 1,144,362; June 29; Gaz. vol. 215; p. 1276.
- Kempen, August J., St. Paul, Minn. Game apparatus. No. 1,136,345; Apr. 20; Gaz. vol. 213; p. 883.
- Kempfen, August J., St. Paul, Minn. Bowling-alley. No. 1,137,635; Apr. 27; Gaz. vol. 213; p. 1379.
- Kempen, August J., St. Paul, Minn. Telephone apparatus. No. 1,154,700; Sept. 28; Gaz. vol. 218; p. 919.
- Kempsmith Manufacturing Co., The. (See Goetz, John; assignor.)
- Kempton, Willard H. (See Mead and Kempton.)
- Kempton, Willard H., assignor to The Ohio Brass Company, Mansfield, Ohio. Overhead-trolley apparatus. No. 1,123,551; Jan. 5; Gaz. vol. 210; p. 121.
- Kempton, Willard H., assignor to The Ohio Brass Company, Mansfield, Ohio. Wire-clamp. No. 1,147,870; July 27; Gaz. vol. 216; p. 1079.
- Kendall, Edgar H., Wilkinsburg, Pa., assignor to Alliance Machine Company, Alliance, Ohio. Crane-trolley. No. 1,148,323; July 27; Gaz. vol. 216; p. 1243.
- Kendall, Edward D., Elizabeth, assignor of one-half to L. T. Haggin, Closter, N. J., M. V. Haggin and A. McCulloh, New York, N. Y., and H. E. Moller, Montclair, N. J., executors of J. B. Haggin, deceased. Plant for the reduction and smelting of ores. No. 1,131,709; Mar. 16; Gaz. vol. 212; p. 716.
- Kendall, Edward D., Elizabeth, assignor of one-third to L. T. Haggin, Closter, N. J., M. V. Haggin, A. McCulloh, New York, N. Y., and H. E. Moller, Montclair, N. J., executors of J. B. Haggin, deceased, and one-third to estate of W. A. McGrath, Brooklyn, N. Y. Refining hydrocarbons. No. 1,154,516; Sept. 21; Gaz. vol. 218; p. 826.
- Kendall, Edward D., Elizabeth, assignor of one-third to L. T. Haggin, Closter, N. J., M. V. Haggin and A. McCulloh, New York, N. Y., and H. E. Moller, Montclair, N. J., executors of J. B. Haggin, deceased, and one-third to estate of W. A. McGrath, Brooklyn, N. Y. Apparatus for refining hydrocarbons. No. 1,154,517; Sept. 21; Gaz. vol. 218; p. 827.
- Kendall, Edward P., Bowdoinham, Me. Potato-digger. No. 1,163,348; Dec. 7; Gaz. vol. 221; p. 215.
- Kendall, Edward P., Bowdoinham, Me. Hopper. No. 1,164,195; Dec. 14; Gaz. vol. 221; p. 555.
- Kendall, Henry, et al. (See Cotter, Edward J., assignor.)
- Kendall, James A., Streatham, London, England. Treatment of chlorides of the alkali metals for the obtaining of useful products therefrom. No. 1,124,143; Jan. 5; Gaz. vol. 210; p. 321.
- Kendall, John, Vancouver, British Columbia, Canada. Gas-stove heat-economizer. No. 1,145,488; July 6; Gaz. vol. 216; p. 180.
- Kendall, John S., Hamilton, Ontario, Canada. Ignition device for internal-combustion engines. No. 1,146,800; July 20; Gaz. vol. 216; p. 679.
- Kendall, Sarah F. (See Kendall, William H., assignor.)
- Kendall, William G., Newark, N. J. Top for receptacles. No. 1,125,380; Apr. 13; Gaz. vol. 213; p. 502.
- Kendall, William G., Newark, N. J. Top for receptacles. No. 1,154,518; Sept. 21; Gaz. vol. 218; p. 827.
- Kendall, William H., assignor to S. F. Kendall, Highland Park, Mich. Machine for forming and pressing hats. No. 1,130,088; Mar. 2; Gaz. vol. 212; p. 86.
- Kendall, William R., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Insertible saw-teeth. No. 1,141,063; May 25; Gaz. vol. 214; p. 1281.
- Kendall, William S., assignor of one-eighth to F. J. Green, one-eighth to W. A. Alexander, one-eighth to J. C. Gores, and one-eighth to F. A. Johnston, Springfield, Ohio. Resilient wheel. No. 1,158,809; Nov. 2; Gaz. vol. 220; p. 141.
- Kendig, Julian H., Pittsburgh, assignor to Tarentum Bottle Machine Company, Tarentum, Pa. Bottle-making machine. No. 1,132,855; Mar. 23; Gaz. vol. 212; p. 1184.
- Kendrick, Frank E., Phil'psburg, N. J. Fly-swatter. No. 1,146,332; July 13; Gaz. vol. 216; p. 495.
- Kendrick, Glenn, Kansas City, Mo. Drum-pedal. No. 1,154,120; Sept. 21; Gaz. vol. 218; p. 692.
- Kendrick, Glenn, Kansas City, Mo. Drum-pedal. No. 1,154,121; Sept. 21; Gaz. vol. 218; p. 692.
- Kendrick, James K., and J. W. Hutterman, Willows, Cal. Mine-catcher. No. 1,138,225; May 4; Gaz. vol. 214; p. 175.
- Kendrick, James P., Fayette, Mo. Fred-trough. No. 1,142,176; June 8; Gaz. vol. 215; p. 420.
- Kendrick, James Z., Statesboro, Ga. Shovel-plow. No. 1,134,462; Apr. 6; Gaz. vol. 213; p. 138.
- Kendrick, Karl A., Detroit, Mich., assignor of one-half to C. Blakely, Boston, Mass., and one-half to F. T. Lodge, Detroit, Mich. Paper box. No. 1,135,588; Apr. 13; Gaz. vol. 213; p. 576.
- Kencly, William J., Elizabeth, N. J. Means of escape from submarines. No. 1,152,420; Sept. 7; Gaz. vol. 218; p. 13.
- Kenevel, Jeannot W., Philadelphia, Pa. Vehicle spring-support. No. 1,148,590; Aug. 3; Gaz. vol. 217; p. 38.

- Kenison, William I., and J. A. Neely; said Neely assignor to L. B. Nickels, M. C. Payne, and E. O. Neely, Niles, Kans. Motor-plow. No. 1,152,369; Aug. 31; Gaz. vol. 217; p. 1630.
- Kenlon, John, New York, N. Y. Method and apparatus for removing snow. No. 1,150,946; Aug. 24; Gaz. vol. 217; p. 1095.
- Kenmir, John G., Jr., Emerado, N. D. Carbureter. No. 1,165,676; Dec. 28; Gaz. vol. 221; p. 1154.
- Kennard, Frederic H., Newton, Mass. Reducing waste sulfate liquor to a powder. No. 1,138,118; May 4; Gaz. vol. 214; p. 141.
- Kennedy, Absalom M., West Orange, N. J. Range-finder. No. 1,154,252; Sept. 21; Gaz. vol. 218; p. 737.
- Kennedy, Alexander, Peckham, London, England. Slicing apparatus. No. 1,149,525; Aug. 10; Gaz. vol. 217; p. 472.
- Kennedy, Arthur M., Philadelphia, Pa. Fender for automobiles and other vehicles. No. 1,140,164; May 18; Gaz. vol. 214; p. 934.
- Kennedy, Arthur M., Philadelphia, Pa. Fender for automobiles and other vehicles. No. 1,148,234; July 27; Gaz. vol. 216; p. 1209.
- Kennedy, Arthur M., Philadelphia, Pa. Fender for automobiles and other vehicles. No. 1,148,235; July 27; Gaz. vol. 216; p. 1209.
- Kennedy, Carlton L., South Braintree, assignor to The Holtzer-Cabot Electric Company, Brookline, Mass. Short-circuiting device for electric motors. No. 1,145,594; July 6; Gaz. vol. 216; p. 215.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,125,116; Jan. 19; Gaz. vol. 210; p. 751.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,126,029; Jan. 26; Gaz. vol. 210; p. 1110.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,126,030; Jan. 26; Gaz. vol. 210; p. 1111.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,576; Feb. 23; Gaz. vol. 211; p. 1144.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,577; Feb. 23; Gaz. vol. 211; p. 1144.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,136,534; Apr. 20; Gaz. vol. 213; p. 951.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,136,535; Apr. 20; Gaz. vol. 213; p. 951.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,136,536; Apr. 20; Gaz. vol. 213; p. 951.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,136,537; Apr. 20; Gaz. vol. 213; p. 952.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,007; Apr. 27; Gaz. vol. 213; p. 1156.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,981; May 4; Gaz. vol. 214; p. 90.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,139,980; May 18; Gaz. vol. 214; p. 868.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. No. 1,142,258; June 8; Gaz. vol. 215; p. 449.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,153,499; Sept. 14; Gaz. vol. 218; p. 441.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,157,784; Oct. 26; Gaz. vol. 219; p. 976.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. No. 1,157,785; Oct. 26; Gaz. vol. 219; p. 977.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. No. 1,157,786; Oct. 26; Gaz. vol. 219; p. 977.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,164,359; Dec. 14; Gaz. vol. 221; p. 614.
- Kennedy, Dennis M., Durban, Natal, South Africa. Draft-harness for oxen and cattle. No. 1,152,737; Sept. 7; Gaz. vol. 218; p. 132.
- Kennedy, Earl E., Neepawa, Manitoba, Canada. Type-writer. No. 1,143,404; June 15; Gaz. vol. 215; p. 890.
- Kennedy, Edward J., San Diego, Cal. Rack. No. 1,146,715; July 13; Gaz. vol. 216; p. 628.
- Kennedy, Edward, New York, N. Y. Plumbing device. No. 1,155,820; Oct. 5; Gaz. vol. 219; p. 173.
- Kennedy, Edward, New York, N. Y. Testing device for water systems. No. 1,155,821; Oct. 5; Gaz. vol. 219; p. 174.
- Kennedy, Frank B., assignor, by mesne assignments, to The Recording Register & Fare Box Company, New Haven, Conn. Fare-register. No. 1,144,478; June 29; Gaz. vol. 215; p. 1315.
- Kennedy, Frank D., Galesburg, Ill. Piston. No. 1,142,177; June 8; Gaz. vol. 215; p. 420.
- Kennedy, Frederick W., Shelbyville, Ind. Three-cornered bag. No. 1,163,545; Dec. 7; Gaz. vol. 221; p. 282.
- Kennedy, Harold J. (See McGettrick and Kennedy.)
- Kennedy, Henry C. (See Cotton, Kennedy, and King.)
- Kennedy, Howard L., Fort Wayne, Ind. Traveler's bag or grip. No. 1,143,711; June 22; Gaz. vol. 215; p. 1019.
- Kennedy, Howard L., Fort Wayne, Ind. Traveler's grip or bag. No. 1,153,393; Sept. 14; Gaz. vol. 218; p. 403.
- Kennedy, Howard S., and C. M. Connolly, assignors, by mesne assignments, to Cluett, Peabody & Co., Inc., Troy, N. Y. Open-bosom dress-shirt. No. 1,141,397; June 1; Gaz. vol. 215; p. 111.
- Kennedy, Hutton. (See MacIndoe, John F., assignor.)
- Kennedy, James E., Washington, D. C. Operating device for gas-stoves. No. 1,151,108; Aug. 24; Gaz. vol. 217; p. 1148.
- Kennedy, James J., Jr. (See Geddes, Charles A., assignor.)
- Kennedy, John C. (See Smith, Samuel D., assignor.)
- Kennedy, John H., Dixon, Ill. Oven attachment for furnaces. No. 1,159,684; Nov. 9; Gaz. vol. 220; p. 478.
- Kennedy, John P., et al. (See Johnson, Lewis, assignor.)
- Kennedy, Joseph, New York, N. Y., assignor to The Clements Company. Cable-hanger. No. 1,154,319; Sept. 21; Gaz. vol. 218; p. 760.
- Kennedy, Joseph E., New York, N. Y. Crushing and pulverizing machine. No. 1,143,203; June 15; Gaz. vol. 215; p. 819.
- Kennedy, Julian, Pittsburgh, Pa. Rail-joint. No. 1,135,695; Apr. 13; Gaz. vol. 213; p. 615.
- Kennedy, Julian, Pittsburgh, Pa. Gear. No. 1,144,137; June 22; Gaz. vol. 215; p. 1168.
- Kennedy, Julian, Pittsburgh, Pa. Shaft-coupling. No. 1,145,489; July 6; Gaz. vol. 216; p. 180.
- Kennedy, Lee R., and O. B. Olson, Denver, Colo., assignors to The O. K. Controller Company. Automatic make-and-break device for projecting-machines. No. 1,127,775; Feb. 9; Gaz. vol. 211; p. 430.
- Kennedy, Martin, assignor of one-third to J. G. Bodenschatz, Chicago, Ill. Car axle and wheels. No. 1,149,536; Aug. 10; Gaz. vol. 217; p. 586.
- Kennedy, Patrick, New York, N. Y. Belt-fastening. No. 1,134,139; Apr. 6; Gaz. vol. 213; p. 20.
- Kennedy, Patrick, Brooklyn, assignor to Consolidated Railway Electric Lighting and Equipment Co., New York, N. Y. Dynamo suspension on car-trucks. No. 1,159,046; Nov. 2; Gaz. vol. 220; p. 219.
- Kennedy, Patrick, Brooklyn, N. Y., and J. A. Misland, Bayonne, N. J., assignors to Consolidated Railway Electric Lighting and Equipment Company, New York, N. Y. Device for securing armature-coils. No. 1,124,456; Jan. 12; Gaz. vol. 210; p. 482.
- Kennedy, Robinson W., and C. V. Brokenicky, Blue Rapids, Kans. Dinner-pail. No. 1,145,149; July 6; Gaz. vol. 216; p. 61.
- Kennedy, Walter, Pittsburgh, Pa. Universal coupling for rolls, &c. No. 1,139,124; May 11; Gaz. vol. 214; p. 533.
- Kennedy, Walter, Pittsburgh, Pa. Universal coupling. No. 1,139,125; May 11; Gaz. vol. 214; p. 533.
- Kennedy, Walter J., Cleveland, Ohio. Fuel-economizing valve. No. 1,144,209; June 22; Gaz. vol. 215; p. 1195.
- Kennedy, William D., assignor of one-half to G. L. Wallace, Oakland, Cal. Clamp. No. 1,154,405; Sept. 21; Gaz. vol. 218; p. 790.
- Kennedy, William J., Greenville, Tex. Self-soaping wash-board. No. 1,135,904; Apr. 13; Gaz. vol. 213; p. 687.
- Kenner, W. R., et al. (See Holsey, Walter R., assignor.)
- Kenney, Andrew E., North Plainfield, N. J. Drinking-fountain. No. 1,127,633; Feb. 9; Gaz. vol. 211; p. 377.
- Kenney, Andrew E., North Plainfield, N. J. Curtainless shower-bath. No. 1,130,520; Mar. 2; Gaz. vol. 212; p. 239.
- Kenney, Andrew E., North Plainfield, N. J., assignor, by mesne assignments, to Waterbury Manufacturing Company. Curtainless shower-bath. (Reissue.) No. 13,877; Feb. 9; Gaz. vol. 211; p. 606.
- Kenney, Andrew E., North Plainfield, N. J., assignor, by mesne assignments, to Reddan Specialty Company, Inc. Curtainless shower-bath. (Reissue.) No. 13,911; May 4; Gaz. vol. 214; p. 313.
- Kenney, Charles H., New London, Conn. Marine speedometer. No. 1,138,226; May 4; Gaz. vol. 214; p. 175.
- Kenney, Charles H., assignor to E. J. Eaton, New London, Conn. Muffler for explosion-engines. No. 1,152,381; Aug. 31; Gaz. vol. 217; p. 1634.
- Kenney, Chester A. (See Manuel, Frank C., assignor.)
- Kenney, Edward F., Westmont borough, Pa. Top for ingot-molds. No. 1,135,381; Apr. 13; Gaz. vol. 213; p. 502.
- Kenney, Edward F., Westmont borough, Pa. Steel manufacture. No. 1,137,144; Apr. 27; Gaz. vol. 213; p. 1206.
- Kenney, Gerald, assignor of twenty-four and one-half one-hundredths to A. H. Herbert and twenty-four and one-half one-hundredths to J. C. Newlands, San Francisco, Cal. Automatic train control. No. 1,142,178; June 8; Gaz. vol. 215; p. 421.
- Kenney, James C., Youngstown, Ohio. Guard for power-operated machines. No. 1,152,106; Aug. 31; Gaz. vol. 217; p. 1538.

Alphabetical list of patentees—Continued.

- Kenney, John, Brooklyn, N. Y., assignor of one-half to John Simmons Company. Pipe-coupling. No. 1,148,324; July 27; Gaz. vol. 216; p. 1243.
- Kenney, Thomas H., Boston, Mass. Self-closing faucet. No. 1,156,010; Oct. 5; Gaz. vol. 219; p. 237.
- Kenney, Thomas H., Boston, Mass., assignor to Dalton-Ingersoll Manufacturing Company. Mixing-valve. No. 1,148,455; July 27; Gaz. vol. 216; p. 1286.
- Kenney, Thomas H., Boston, Mass., assignor to Dalton-Ingersoll Manufacturing Company. Waste-valve. No. 1,148,456; July 27; Gaz. vol. 216; p. 1286.
- Kenney, Thomas H., Boston, Mass., assignor to Dalton-Ingersoll Manufacturing Company. Drinking-fountain. No. 1,156,011; Oct. 5; Gaz. vol. 219; p. 237.
- Kenney, William J., Wilmette, assignor to Under-Feed Stoker Company of America, Chicago, Ill. Stoker construction. No. 1,162,785; Dec. 7; Gaz. vol. 221; p. 19.
- Kenney, William J., Wilmette, and H. P. Grohn, assignors to The Underfeed-Stoker Company of America, Chicago, Ill. Automatic stoking apparatus. No. 1,136,679; Apr. 20; Gaz. vol. 213; p. 1002.
- Kennicott, Cass L., Chicago Heights, assignor to The Kennicott Company, Chicago, Ill. Means for feeding powdered material. No. 1,152,820; Sept. 7; Gaz. vol. 218; p. 162.
- Kennicott Company, The. (See Kennicott, Cass L., assignor.)
- Kenny, Edmond. (See Banzett and Kenny.)
- Kenny, John W., New York, N. Y. Concrete-casing. No. 1,157,226; Oct. 19; Gaz. vol. 219; p. 720.
- Kent, Arthur A., Philadelphia, Pa. Electric contact device. No. 1,152,642; Sept. 7; Gaz. vol. 218; p. 97.
- Kent, Arthur A., Philadelphia, Pa. Signaling-horn. No. 1,152,643; Sept. 7; Gaz. vol. 218; p. 97.
- Kent, Charles B., Kenosha, Wis. Carbureter. No. 1,141,085; May 25; Gaz. vol. 214; p. 1288.
- Kent, Charles B., Kenosha, Wis. Carbureter. No. 1,141,086; May 25; Gaz. vol. 214; p. 1288.
- Kent, Frederick C., and C. W. Lindholm, Newark, N. J. Speaker connection for talking-machines. No. 1,130,298; Mar. 2; Gaz. vol. 212; p. 158.
- Kent, George G., East Finchley, assignor to Practical Novelty Company, Limited, London, England. Revolving holder for winding wool into balls. No. 1,128,686; Feb. 16; Gaz. vol. 211; p. 795.
- Kent, George H., Watertown, Mass. Combination-card for banking purposes. No. 1,166,054; Dec. 28; Gaz. vol. 221; p. 1283.
- Kent, Horace L., Brooklyn, N. Y. Crushing-mill. No. 1,150,864; Aug. 24; Gaz. vol. 217; p. 1067.
- Kent, Robert S., Brooklyn, N. Y. Apparatus for drying finely-divided material. No. 1,146,265; July 13; Gaz. vol. 216; p. 472.
- Kent, Stanley P., assignor to Western Electric Company, New York, N. Y. Inductance-coil for telephone-lines. No. 1,158,810; Nov. 2; Gaz. vol. 220; p. 141.
- Kent, William J., New York, N. Y. Horseshoe. No. 1,125,556; Jan. 19; Gaz. vol. 210; p. 909.
- Kent, William J., New York, N. Y. Horseshoe. No. 1,132,017; Mar. 16; Gaz. vol. 212; p. 829.
- Kent, William J., New York, N. Y. Automatic stop mechanism for presses or the like. No. 1,139,773; May 18; Gaz. vol. 214; p. 795.
- Kent, William J., New York, N. Y. Horseshoe. No. 1,151,797; Aug. 31; Gaz. vol. 217; p. 1431.
- Kent, Willis, Meaford, Ontario, Canada. Wood-splitting machine. No. 1,150,038; Aug. 17; Gaz. vol. 217; p. 719.
- Kentucky Starting Gate Company, The. (See Jones, Frank A., assignor.)
- Kentucky Tobacco Product Company, The. (See Brockwell and Henderson, assignors.)
- Kentucky Tobacco Product Company, The. (See Mewborne, Robert G., assignor.)
- Kentzer, William C., New Rochelle, N. Y. Window-fastening. No. 1,135,696; Apr. 13; Gaz. vol. 213; p. 615.
- Kenvin, Thomas H., Homestead, Pa. Ingot-mold stool. No. 1,157,697; Oct. 26; Gaz. vol. 219; p. 947.
- Kenworthy, Charles A. (See Perry and Kenworthy.)
- Kenworthy, Charles A., New York, N. Y., assignor, by mesne assignments, to Consolidated Patents Co., Inc. Duplicator. No. 1,159,334; Nov. 2; Gaz. vol. 220; p. 321.
- Kenyon, Charles H. (See Roush and Kenyon.)
- Kenyon, Bertram C., assignor of one-half to Dodge Manufacturing Company, Mishawaka, Ind. Combined packing-ring and valve. No. 1,157,162; Oct. 19; Gaz. vol. 219; p. 697.
- Kenyon, Otis A., Hastings-upon-Hudson, assignor to J. Kjekstad and W. Schenstrom, New York, N. Y. Electric welding apparatus. No. 1,154,320; Sept. 21; Gaz. vol. 218; p. 760.
- Keough, James E., Boston, Mass. Electric fixture. No. 1,134,954; Apr. 6; Gaz. vol. 213; p. 310.
- Keough, Michael J., St. Louis, Mo. Door-latch. No. 1,137,863; May 4; Gaz. vol. 214; p. 49.
- Keough, Zachariah, Los Angeles, Cal. Automobile direction-indicator. No. 1,147,950; July 27; Gaz. vol. 216; p. 1108.
- Keough, Zachariah, Los Angeles, Cal. Automobile direction signal or indicator. No. 1,154,024; Sept. 21; Gaz. vol. 218; p. 658.
- Kephart, Andrew C., Charlotte, Tenn. Attachment for blacksmiths' blowers. No. 1,131,385; Mar. 9; Gaz. vol. 212; p. 569.
- Kepka, Josef A., Chicago, Ill. Liquid-measuring device. No. 1,152,952; Sept. 7; Gaz. vol. 218; p. 211.
- Kepler, Harvey, Devils Lake, N. D. Auto attachment. No. 1,151,474; Aug. 24; Gaz. vol. 217; p. 1271.
- Kepler, Irwin F., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Water bag or bottle. No. 1,145,687; July 6; Gaz. vol. 216; p. 248.
- Kepler, Irwin F., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Manufacturing water bags or bottles. No. 1,164,196; Dec. 14; Gaz. vol. 221; p. 556.
- Keplinger, George B., assignor to Kyle Bottle Washing Machine Company, Chicago, Ill. Bottle-washing machine. No. 1,124,457; Jan. 12; Gaz. vol. 210; p. 482.
- Keplinger, Livingston B., New Orleans, La., and W. E. Keplinger, Cincinnati, Ohio. Cartridge-shell. No. 1,156,406; Oct. 12; Gaz. vol. 219; p. 402.
- Keplinger, Warren E. (See Keplinger, Livingston B. and W. E.)
- Keppel, George H., et al. (See Miller, Benjamin D., assignor.)
- Kepple, Nicholas J., Buffalo, N. Y. Straining device. No. 1,148,689; Aug. 3; Gaz. vol. 217; p. 74.
- Keppler, Frederick L., Berlin, Germany. Transparent-tile structure. No. 1,145,997; July 13; Gaz. vol. 216; p. 377.
- Keppler, Frederick L., Berlin, Germany. Transparent-tile structure. No. 1,165,417; Dec. 28; Gaz. vol. 221; p. 1062.
- Keppy, John D., Toronto, Ontario, Canada. Instrument for drafting conic sections. No. 1,139,298; May 11; Gaz. vol. 214; p. 590.
- Kerbel, Fredrick J., assignor to R. J. Noderer, Seattle, Wash. Theater-chair. No. 1,144,603; June 29; Gaz. vol. 215; p. 1355.
- Kerbel, Fredrick J., assignor to R. J. Noderer, Seattle, Wash. Theater-chair. No. 1,166,376; Dec. 28; Gaz. vol. 221; p. 1403.
- Kerber, Julius, West Bend, Wis. Pasteurizer. No. 1,127,634; Feb. 9; Gaz. vol. 211; p. 378.
- Kercher, Arthur J., assignor to Berkeley Electric Cooker Company, Berkeley, Cal. Electrically-heated cooker. No. 1,151,189; Aug. 24; Gaz. vol. 217; p. 1177.
- Kercher, Arthur J., assignor to Berkeley Electric Cooker Company, Berkeley, Cal. Cooker. No. 1,154,993; Sept. 28; Gaz. vol. 218; p. 1018.
- Kercher, Martin T., and N. N. Tombaugh, Roann, Ind. Rail-joint. No. 1,165,264; Dec. 21; Gaz. vol. 221; p. 970.
- Keresztury, Andrew, Chicago, Ill. Aeroplane-radiator. No. 1,164,820; Dec. 21; Gaz. vol. 221; p. 815.
- Kerfoot, Oliver C., Jonesboro, Ark. Gate-latch. No. 1,159,393; Nov. 9; Gaz. vol. 220; p. 374.
- Kerian, Frank, Grafton, N. D. Beater for threshers. No. 1,133,970; Mar. 30; Gaz. vol. 212; p. 1615.
- Kermer, Martin J., Chicago, Ill. Evaporator. No. 1,150,605; Aug. 17; Gaz. vol. 217; p. 919.
- Kern, Albert L., Detroit, Mich. Stump-puller. No. 1,126,227; Jan. 26; Gaz. vol. 210; p. 1185.
- Kern, Albert P., Jr., Covington, Ky. Multiple-spindle drill. No. 1,148,094; July 27; Gaz. vol. 216; p. 1161.
- Kern, Jacob S., Fleetwood, Pa. Wind-shield for automobiles. No. 1,163,413; Dec. 7; Gaz. vol. 221; p. 237.
- Kern, Ludwig, Hamburg, Germany. Fertilizer and manufacturing same. No. 1,144,905; June 29; Gaz. vol. 215; p. 1461.
- Kern, Ludwig, Hamburg, Germany. Producing manure. No. 1,145,370; July 6; Gaz. vol. 216; p. 137.
- Kern, Maximilian H., Ridgewood, N. Y. Alarm-clock. No. 1,148,969; Aug. 3; Gaz. vol. 217; p. 172.
- Kern, Maximilian H., assignor to The Roberts Numbering Machine Company, Brooklyn, N. Y. Numbering-machine. No. 1,144,138; June 22; Gaz. vol. 215; p. 1169.
- Kern, Maximilian H., assignor to Roberts Numbering Machine Company, Brooklyn, N. Y. Numbering-machine. No. 1,157,698; Oct. 26; Gaz. vol. 219; p. 948.
- Kern, Maximilian H., Ridgewood, assignor to Roberts Numbering Machine Company, Brooklyn, N. Y. Numbering-machine. No. 1,157,699; Oct. 26; Gaz. vol. 219; p. 948.
- Kernan, Joseph F., and W. J. Owens, Utica, N. Y. Fire-pot for stoves and furnaces. No. 1,140,464; May 25; Gaz. vol. 214; p. 1074.
- Kerner Manufacturing Company. (See Dodds, Ethan I., assignor.)
- Kerner Manufacturing Company. (See Frauenheim, Joseph A., assignor.)
- Kerner Manufacturing Company. (See Seley, Charles A., assignor.)
- Kerner, Theodore, Milwaukee, Wis. Steam-boiler and furnace. No. 1,132,778; Mar. 23; Gaz. vol. 212; p. 1156.
- Kerngood, Herman, and I. Blum, assignors to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Prong-attached sliding-tongue buckle. No. 1,132,856; Mar. 23; Gaz. vol. 212; p. 1185.
- Kerns, Edward J., Worcester, Mass. Exercising-machine. No. 1,139,126; May 11; Gaz. vol. 214; p. 533.

- Kerns, Evrand H., Weedsport, N. Y. Chain of the folded metal-link type. No. 1,126,228; Jan. 26; Gaz. vol. 210; p. 1185.
- Kerns, Evrand H., Weedsport, N. Y. Barrel-hoop fastener. No. 1,140,004; Nov. 16; Gaz. vol. 220; p. 965.
- Kerns, Francis T., Rehler, W. Va. Oil-saving device for oil-wells. No. 1,159,230; Nov. 2; Gaz. vol. 220; p. 286.
- Kerns, George E., Archer City, Tex. Mail-handling apparatus. No. 1,161,869; Nov. 30; Gaz. vol. 220; p. 1395.
- Kerosene Utilities Company. (See Hogan, George L., assignor.)
- Kerr, Alexander H., Chicago, Ill. Preserving-jar. No. 1,152,107; Aug. 31; Gaz. vol. 217; p. 1538.
- Kerr, Charles V., Wellsville, N. Y. Centrifugal pump. No. 1,125,117; Jan. 19; Gaz. vol. 210; p. 752.
- Kerr, Charles V., Wellsville, N. Y. Compound blower. No. 1,125,118; Jan. 19; Gaz. vol. 210; p. 752.
- Kerr, Charles V., Wellsville, N. Y. Centrifugal pump. No. 1,129,038; Feb. 16; Gaz. vol. 211; p. 921.
- Kerr, Charles V., Wellsville, N. Y. Steam-turbine. No. 1,131,386; Mar. 9; Gaz. vol. 212; p. 569.
- Kerr, Charles V., Wellsville, N. Y. Exhaust for steam-turbines. No. 1,131,645; Mar. 9; Gaz. vol. 212; p. 661.
- Kerr, Charles V., Wellsville, N. Y. Gear lubrication. No. 1,132,947; Mar. 23; Gaz. vol. 212; p. 1218.
- Kerr, Charles V., Wellsville, N. Y. Blower. No. 1,136,142; Apr. 20; Gaz. vol. 213; p. 811.
- Kerr, Charles V., Wellsville, N. Y. Condenser. No. 1,158,231; Oct. 26; Gaz. vol. 219; p. 1133.
- Kerr, Charles V., Wellsville, N. Y. Condensing apparatus. No. 1,158,232; Oct. 26; Gaz. vol. 219; p. 1134.
- Kerr, Charles V., Wellsville, N. Y. Flexible coupling. No. 1,159,774; Nov. 9; Gaz. vol. 220; p. 512.
- Kerr, Charles V., Wellsville, N. Y. Condenser. No. 1,159,775; Nov. 9; Gaz. vol. 220; p. 512.
- Kerr, Charles V., East Orange, N. J. Condenser-pump. No. 1,159,776; Nov. 9; Gaz. vol. 220; p. 512.
- Kerr, Charles V., East Orange, N. J. Flexible coupling. No. 1,159,777; Nov. 9; Gaz. vol. 220; p. 513.
- Kerr, Charles V., Chicago, Ill. Condensing apparatus. No. 1,159,778; Nov. 9; Gaz. vol. 220; p. 513.
- Kerr, David S., Montreal, Quebec, Canada. Date-calculating device. No. 1,123,754; Jan. 5; Gaz. vol. 210; p. 191.
- Kerr, George A., Lynchburg, Va. Decolorizing agent. No. 1,163,827; Dec. 14; Gaz. vol. 221; p. 429.
- Kerr, Harold H. (See O'Connell and Kerr.)
- Kerr, Harry W., et al. (See Jeffreys and Creahen, assignors.)
- Kerr, John F. (See Handel, Cornelius V., assignor.)
- Kerr, Paul S., Des Moines, Iowa. Calendar. No. 1,148,904; Aug. 3; Gaz. vol. 217; p. 149.
- Kerr, Robert M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Dental impression-tray. No. 1,127,635; Feb. 9; Gaz. vol. 211; p. 378.
- Kerr, Thomas C., Stevenson, Scotland. Means for the prevention of accidents on railways. No. 1,152,953; Sept. 7; Gaz. vol. 218; p. 211.
- Kerr, Thomas H. (See Snee and Kerr.)
- Kerr, Thomas H., Pittsburgh, assignor to W. and J. A. Snee, Jr., West Elizabeth, Pa. Controlling electric-generator prime movers. No. 1,165,418; Dec. 28; Gaz. vol. 221; p. 1063.
- Kerr, Thomas R., Norfolk, Va. Street-sweeper. No. 1,143,052; June 15; Gaz. vol. 215; p. 765.
- Kerrigan, Thomas, Mahanoy Plane, Pa. Shaker-plate. No. 1,164,723; Dec. 21; Gaz. vol. 221; p. 780.
- Kerscher, George J., and E. H. Forster; said Kerscher assignor to G. E. Myers, Toledo, Ohio. Handling mechanism for brick-molds. No. 1,125,557; Jan. 19; Gaz. vol. 210; p. 909.
- Kerst, John G., Springfield, Ill. Shocking accessory for harvesting-machines. No. 1,132,857; Mar. 23; Gaz. vol. 212; p. 1185.
- Kerst, John G., Springfield, Ill. Motor-driven truck. No. 1,139,981; May 18; Gaz. vol. 214; p. 868.
- Kersten, Frank. (See Noller, Karl, assignor.)
- Kerstner, Joel C., assignor to Minneapolis Heat Regulator Co., Minneapolis, Minn. Motor. No. 1,162,372; Nov. 30; Gaz. vol. 220; p. 1570.
- Kersting, Albert H. (See Tsukalas and Kersting.)
- Kerwin, Edwin J., et al. (See Terry, Louis, assignor.)
- Kessell, Adolph. (See Elliott, William J., assignor.)
- Kessel & Co. (See Höncke, Edward, assignor.)
- Kessel, Wilhelm P., San Francisco, Cal. Rock-drill. No. 1,132,276; Mar. 16; Gaz. vol. 212; p. 924.
- Kesseler, Paul, Berlin-Steglitz, assignor to Martini & Höncke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Device for drawing off liquids. No. 1,128,002; Feb. 9; Gaz. vol. 211; p. 510.
- Kessler, Alphonso D., Dunkirk, N. Y. Cooling device for car-journals and the like. No. 1,155,932; Oct. 5; Gaz. vol. 219; p. 211.
- Kessler Company, The. (See Kessler, Henry W., assignor.)
- Kessler, Frank T. (See Rodenhansen, Leonard, assignor.)
- Kessler, Henry W., assignor to The Kessler Company, Cleveland, Ohio. Making a white pigment. No. 1,131,144; Mar. 9; Gaz. vol. 212; p. 486.
- Kessler, John, Anamoose, N. D. Automatic cut-off for eaves-trough spouts. No. 1,124,458; Jan. 12; Gaz. vol. 210; p. 483.
- Kessler, John; Marshallton, Del. Mold. No. 1,145,773; July 6; Gaz. vol. 216; p. 279.
- Kessler, John, Marshallton, Del. Rail-joint. No. 1,151,275; Aug. 24; Gaz. vol. 217; p. 1206.
- Kessler, John H., Nyack, N. Y. Means for catching insects, more especially flies and mosquitoes. No. 1,133,382; Mar. 30; Gaz. vol. 212; p. 1409.
- Kessler, Louis, Chicago, Ill. Pump-meter. No. 1,148,095; July 27; Gaz. vol. 216; p. 1161.
- Kessler, Louis, Chicago, Ill. Filling-tube for gasoline-receptacles. No. 1,155,070; Sept. 28; Gaz. vol. 218; p. 1045.
- Kessler, Virgil M., assignor of one-half to W. Koch, Dayton, Ohio. Roof-ladder. No. 1,160,721; Nov. 16; Gaz. vol. 220; p. 901.
- Kestel, Henry C., Toledo, Ohio. Labeling-machine. No. 1,160,415; Nov. 16; Gaz. vol. 220; p. 780.
- Kestner, Paul, Lille, France. Preparation of sugar in the form of fine crystals. No. 1,149,067; Aug. 3; Gaz. vol. 217; p. 206.
- Kesty, Charles C., Watsontown, Pa. Brick-die. No. 1,138,573; May 4; Gaz. vol. 214; p. 296.
- Kesty, Charles C., Watsontown, Pa. Brick-die. No. 1,138,663; May 11; Gaz. vol. 214; p. 367.
- Ketelsen, Broder, Neligh, Nebr. Excavating-machine. No. 1,128,003; Feb. 9; Gaz. vol. 211; p. 510.
- Ketting, Orlando C., and E. D. Pope, Portland, Ind. Spoke-mitering machine. No. 1,158,057; Oct. 26; Gaz. vol. 219; p. 1073.
- Kettering, Charles F., assignor to The National Cash Register Company, Dayton, Ohio. Store-service credit-system apparatus. No. 1,142,102; June 8; Gaz. vol. 215; p. 395.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Co. Engine-starting device. No. 1,150,523; Aug. 17; Gaz. vol. 217; p. 890.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Co. Electric meter. No. 1,154,025; Sept. 21; Gaz. vol. 218; p. 659.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Co. Current-interrupter. No. 1,162,073; Nov. 30; Gaz. vol. 220; p. 1467.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Co. Timer or current-interrupter. No. 1,163,092; Dec. 7; Gaz. vol. 221; p. 124.
- Kettering, Charles F., and W. A. Chryst, assignors to The National Cash Register Company, Dayton, Ohio. Illuminated cash-register indicator. No. 1,131,246; Mar. 9; Gaz. vol. 212; p. 521.
- Kettering, Charles F., and W. A. Chryst, assignors to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,137,061; Apr. 27; Gaz. vol. 213; p. 1175.
- Kettering, Charles F., and W. A. Chryst, assignors to The National Cash Register Company, Dayton, Ohio. Cash and autographic register. No. 1,137,062; Apr. 27; Gaz. vol. 213; p. 1176.
- Kettering, Charles F., and W. A. Chryst, assignors to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,144,418; June 29; Gaz. vol. 215; p. 1294.
- Kettering, Charles F., and W. A. Chryst, assignors to The National Cash Register Company, Dayton, Ohio. Multiple cash register and recorder. No. 1,151,190; Aug. 24; Gaz. vol. 217; p. 1177.
- Ketterlinus Lithographic Manufacturing Company. (See Miller, Clarence S., assignor.)
- Kettler, Martin F., assignor to Downing Pneumatic Wheel Company, Houston, Tex. Resilient wheel. No. 1,140,686; May 25; Gaz. vol. 214; p. 1150.
- Kettner, Friedrich W., Altona, assignor to Hermann Bauermeister Maschinenfabrik u. Mühlenbauanstalt G. m. b. H., Altona-Ottensen, Germany. Apparatus for dividing more or less thick liquid or pasty materials—for instance, chocolate and the like. No. 1,156,407; Oct. 12; Gaz. vol. 219; p. 402.
- Kettron, Charles W., assignor to Illinois Electric Porcelain Company, Macomb, Ill. Insulator. No. 1,127,776; Feb. 9; Gaz. vol. 211; p. 430.
- Keuffel & Esser Company, The. (See Bernardini and Keuffel, assignors.)
- Keuffel & Esser Company, The. (See Ferber, Philip, assignor.)
- Keuffel & Esser Company. (See Keuffel, Willie L. E., assignors.)
- Keuffel & Esser Company. (See Kollmorgen, Frederick L. G., assignor.)
- Keuffel & Esser Company. (See Pfeiffer, Charles C., assignor.)
- Keuffel, Willie L. E. (See Bernardini and Keuffel.)
- Keuffel, Willie L. E., assignor to Keuffel & Esser Company, Hoboken, N. J. Optical instrument. No. 1,145,022; July 6; Gaz. vol. 216; p. 16.
- Keuffel, Willie L. E., assignor to Keuffel & Esser Company, Hoboken, N. J. Slide-rule runner. No. 1,150,771; Aug. 17; Gaz. vol. 217; p. 976.
- Keuffel, Willie L. E., assignor to The Keuffel & Esser Company, Hoboken, N. J. Stadia-transit. No. 1,154,253; Sept. 21; Gaz. vol. 218; p. 737.
- Keuling, Edgar L., Scranton, Pa. Counterbalanced stair. No. 1,140,833; May 25; Gaz. vol. 214; p. 1201.

Alphabetical list of patentees—Continued.

- Keyeney, Leo P., and C. F. Collinge, Toledo, Ohio. Binder. No. 1,135,697; Apr. 13; Gaz. vol. 213; p. 616.
- Kevil, Manson R. (See Larkins and Kevil.)
- Kevirt, Cornelius, Glen Ridge, assignor of two-thirds to A. W. Simpson, Upper Montclair, N. J. Transom-operating means. No. 1,159,951; Nov. 9; Gaz. vol. 220; p. 576.
- Kewanee Water Supply Company. (See Canedy, Earl, assignor.)
- Key, James A. (See Dalton, William M., assignor.)
- Keyes, Eugene L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Trimming-machine. No. 1,130,742; Mar. 9; Gaz. vol. 212; p. 349.
- Keyes, Eugene L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,143,712; June 22; Gaz. vol. 215; p. 1019.
- Keyes, Eugene L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for use in lasting toes. No. 1,143,971; June 22; Gaz. vol. 215; p. 1108.
- Keyes, Eugene L., Chicago, Ill., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,143,972; June 22; Gaz. vol. 215; p. 1108.
- Keyes Fibre Company. (See Chaplin, Merle P., assignor.)
- Keyes, Frank E., New York, N. Y. Water-heater. No. 1,123,755; Jan. 5; Gaz. vol. 210; p. 191.
- Keyes, Frank E., New York, N. Y. System for purifying boiler-water. No. 1,166,222; Dec. 28; Gaz. vol. 221; p. 1348.
- Keyes, Frederick G., East Orange, N. J. Filament for incandescent lamps. No. 1,164,614; Dec. 14; Gaz. vol. 221; p. 701.
- Keyes, Frederick G., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Terminal for mercury-vapor apparatus. No. 1,158,928; Nov. 2; Gaz. vol. 220; p. 182.
- Keyes, Frederick G., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Terminal connection for electric lamps. No. 1,161,822; Nov. 23; Gaz. vol. 220; p. 1332.
- Keyes, Frederick G., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Terminal connection for lamp-filaments. No. 1,161,823; Nov. 23; Gaz. vol. 220; p. 1332.
- Keyes, Frederick G., assignor to A. A. Noyes, trustee, Boston, Mass. Seal for vacuum apparatus. No. 1,159,335; Nov. 2; Gaz. vol. 220; p. 322.
- Keyes, James A., New York, N. Y. Safety device for elevators. No. 1,144,479; June 29; Gaz. vol. 215; p. 1315.
- Keyes, James A., New York, N. Y. Electric switch. No. 1,166,055; Dec. 28; Gaz. vol. 221; p. 1283.
- Keyoke Railway Equipment Company. (See Murray, Charles F., assignor.)
- Keyoke Railway Equipment Company. (See Murray, George C., assignor.)
- Keyouse, Anthony V., New York, N. Y. Window-ventilator. No. 1,162,241; Nov. 30; Gaz. vol. 220; p. 1526.
- Keys, Carlos R., St. Joseph, Mo. Wringer for use in tanneries. No. 1,126,782; Feb. 2; Gaz. vol. 211; p. 42.
- Keys, Jerome W., St. Joseph, Mo. Milk-bottle-seal remover, seal-replacer, and lid combined. No. 1,133,290; Mar. 30; Gaz. vol. 212; p. 1376.
- Keyser, Louis P., Wheeling, W. Va. Gearing for washing-machines. No. 1,161,480; Nov. 23; Gaz. vol. 220; p. 1215.
- Keystone Driller Company. (See Downie, Robert M., assignor.)
- Keystone Mansoleum Co. (See Smith, Tom C., assignor.)
- Keystone National Powder Company. (See Auchu, Henry, assignor.)
- Keystone Steel & Wire Company. (See Herman, Joseph, assignor.)
- Keystone Steel & Wire Company. (See Herman, William, assignor.)
- Keystone Type Foundry. (See Basheller, Frank M., assignor.)
- Keystone Type Foundry. (See Orchard, Alfred S., assignor.)
- Keystone Type Foundry. (See Paton, Robert, assignor.)
- Keyt, Marshall H., Chicago, Ill. Removing tarnish from metals. (Reissue.) No. 1,388,0; Feb. 16; Gaz. vol. 211; p. 927.
- Keyt, Marshall H., Chicago, Ill. Apparatus for removing tarnish from metals. No. 1,139,686; May 18; Gaz. vol. 214; p. 765.
- Keyte, Sarah M., Oakland, Cal. Ventilating-pan. No. 1,132,187; Mar. 16; Gaz. vol. 212; p. 890.
- Kezer, Frank F., et al. (See Whitney, Karl T., assignor.)
- Kianston, Abel, and J. Nelson, New York, N. Y. Amusement device. No. 1,152,183; Aug. 31; Gaz. vol. 217; p. 1563.
- Kibe, Eugene, and W. G. Vreeland, Chattanooga, Tenn. Pipe and casing tongs. No. 1,129,299; Feb. 23; Gaz. vol. 211; p. 1047.
- Kibele, Hector, assignor to The Diller Manufacturing Company, Bluffton, Ohio. Fireless cooker. No. 1,145,998; July 13; Gaz. vol. 216; p. 378.
- Kichline, Albert L. (See Walker and Kichline.)
- Kicklighter, Charles H., Newberry, S. C. Synchronous rectifier. No. 1,123,307; Jan. 5; Gaz. vol. 210; p. 36.
- Kicklighter, Charles H., Atlanta, Ga. Electric welding. No. 1,123,308; Jan. 5; Gaz. vol. 210; p. 37.
- Kicklighter, Charles H., Atlanta, Ga. Electric welding. No. 1,123,309; Jan. 5; Gaz. vol. 210; p. 37.
- Kidd, Burrell L., Tuscola, Tex. Wire-stretcher. No. 1,143,911; June 22; Gaz. vol. 215; p. 1087.
- Kidd, Irvin A., Salisbury, N. C. Expandible pipe-joint. No. 1,159,845; Nov. 9; Gaz. vol. 220; p. 538.
- Kidd, Robert, et al. (See Butler, George H., assignor.)
- Kidder, Francis M. and M. H., New York, N. Y. High-frequency therapeutic apparatus. No. 1,127,017; Feb. 2; Gaz. vol. 211; p. 125.
- Kidder, Milton H. (See Kidder, Francis M. and M. H.)
- Kidder, Richard E., deceased, Worcester, Mass.; Worcester Trust Company, executor. Multiple-spindle boring-machine. No. 1,151,018; Aug. 24; Gaz. vol. 217; p. 1118.
- Kidder, Wellington P., Boston, Mass., assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,146,578; July 13; Gaz. vol. 216; p. 583.
- Kidder, Wellington P., Boston, Mass., assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,164,942; Dec. 21; Gaz. vol. 221; p. 857.
- Kiddle, Alfred W., et al., executors. (See Hoffmann, Ernst G.)
- Kidney, Alfred H., New York, N. Y. Cleaning device. No. 1,129,689; Feb. 23; Gaz. vol. 211; p. 1181.
- Kidney, Alfred H., Orange, N. J. Screen for the separation of ores. No. 1,131,710; Mar. 16; Gaz. vol. 212; p. 716.
- Kidney, Alfred H., Orange, N. J. Magnetic separator. No. 1,137,492; Apr. 27; Gaz. vol. 213; p. 1331.
- Kiehler, Reynold H., Chicago, Ill. Form registering and line-up means. No. 1,158,133; Oct. 26; Gaz. vol. 219; p. 1100.
- Kieckhefer, Arthur C., et al. (See Nelson, August T., assignor.)
- Kieckhefer Box Company. (See Simpson, Frost V., assignor.)
- Kiefer, Frederic, Chicago, Ill. Display device. No. 1,156,603; Oct. 12; Gaz. vol. 219; p. 470.
- Kiefer, Karl, Cincinnati, Ohio. Filtering apparatus. No. 1,123,310; Jan. 5; Gaz. vol. 210; p. 38.
- Kiefer, Karl, Cincinnati, Ohio. Filling-machine. No. 1,145,068; July 6; Gaz. vol. 216; p. 34.
- Kiefer, Karl, Cincinnati, Ohio. Centrifugal pump. No. 1,162,373; Nov. 30; Gaz. vol. 220; p. 1571.
- Kiefer, Karl, Cincinnati, Ohio. Filling apparatus. No. 1,164,360; Dec. 14; Gaz. vol. 221; p. 614.
- Kiefer, Otto, Chicago, Ill. Jar. No. 1,131,844; Mar. 16; Gaz. vol. 212; p. 767.
- Kiefer, Raymond A., Ramsey, N. J. Sterilizing device. No. 1,123,889; Jan. 5; Gaz. vol. 210; p. 235.
- Kieffer, Garrett S. (See Ainsworth, Mark, assignor.)
- Kiehler, Frederick, Detroit, Mich. Collapsible vehicle-seat. No. 1,156,408; Oct. 12; Gaz. vol. 219; p. 402.
- Kieke, William, Albuquerque, N. Mex. Rubber stamp. No. 1,162,786; Dec. 7; Gaz. vol. 221; p. 19.
- Kieckert, Albert, Heiligenhaus, Germany. Window-closing mechanism. No. 1,131,247; Mar. 9; Gaz. vol. 212; p. 522.
- Kielling, Wilhelm, Frankfurt-on-the-Main, Germany. Crankshaft connection. No. 1,159,231; Nov. 2; Gaz. vol. 220; p. 286.
- Kielland, Jakob D., Christiania, Norway, assignor of one-half to A. Thode, Hamburg, Germany. Screw-nut guard. No. 1,161,317; Nov. 23; Gaz. vol. 220; p. 1157.
- Kiendl, Robert J., Buffalo, N. Y. Radiator. No. 1,142,179; June 8; Gaz. vol. 215; p. 421.
- Kienzle, Herbert, New York, N. Y. Apparatus for speed control for lathes. No. 1,128,687; Feb. 16; Gaz. vol. 211; p. 796.
- Kienzle, Herbert, New York, N. Y. Illuminated clock. No. 1,143,632; June 22; Gaz. vol. 215; p. 992.
- Kienzle, Herbert, New York, N. Y. Mechanical lathe control. No. 1,157,227; Oct. 19; Gaz. vol. 219; p. 720.
- Kienzle, Jacob F., Sioux Falls, S. D. Corn-shelling machine. No. 1,155,155; Sept. 28; Gaz. vol. 218; p. 1076.
- Kiernan, George, Philadelphia, Pa. Card-holder for album-leaves. No. 1,140,904; May 25; Gaz. vol. 214; p. 1227.
- Kiernan, John, Paterson, N. J. Propeller apparatus for vessels. No. 1,158,929; Nov. 2; Gaz. vol. 220; p. 182.
- Kiesau, Henry S., Waukon, Iowa. End-gate tightener. No. 1,138,762; May 11; Gaz. vol. 214; p. 403.
- Kiesel, Richard, Freiburg, Baden, Germany. Bracket. No. 1,157,787; Oct. 26; Gaz. vol. 219; p. 978.
- Kiesel, William F., Jr., Altoona, Pa. Truck connection for locomotives and cars. No. 1,133,971; Mar. 30; Gaz. vol. 212; p. 1616.
- Kiesel, William F., Jr., Altoona, Pa. Car-truck. No. 1,153,117; Sept. 7; Gaz. vol. 218; p. 266.
- Kiesel, William F., Jr., Altoona, Pa. Car-brake. No. 1,162,242; Nov. 30; Gaz. vol. 220; p. 1526.
- Kiesel, William F., Jr., Altoona, Pa. Locomotive. No. 1,162,243; Nov. 30; Gaz. vol. 220; p. 1526.
- Kieselguhr Company of America. (See Bachler, Frederick R., assignor.)
- Kieselguhr Company of America. (See Caven, Trevor M., assignor.)

Alphabetical list of patentees—Continued.

- Kieser, Walter, Charlottenburg, Germany, assignor to General Electric Company. Governing mechanism for mixed-pressure turbines. No. 1,150,682; Aug. 17; Gaz. vol. 217; p. 946.
- Kieser, Walter, Charlottenburg, Germany, assignor to General Electric Company. Tapped turbine. No. 1,153,316; Sept. 14; Gaz. vol. 218; p. 374.
- Kieser, Walter, Charlottenburg, Germany, assignor to General Electric Company. Attaching means for nozzles. No. 1,154,777; Sept. 28; Gaz. vol. 218; p. 945.
- Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Preventing water-hammer in pipes. No. 1,156,532; Oct. 12; Gaz. vol. 219; p. 445.
- Kiester, Ernest S., Lawrenceville, Ill. Candy-ribbon-crimping machine. No. 1,162,616; Nov. 30; Gaz. vol. 220; p. 1651.
- Kiewicz, John, Hyde Park, assignor to The Reece Shoe Machinery Company, Boston, Mass. Shoe and the like. No. 1,151,365; Aug. 24; Gaz. vol. 217; p. 1235.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Power-transmitting mechanism. No. 1,160,986; Nov. 16; Gaz. vol. 220; p. 993.
- Kigans, Barker E., Marietta, Ohio. Heating-curtain. No. 1,159,952; Nov. 9; Gaz. vol. 220; p. 577.
- Kiger, Cornelius A., Kansas City, Mo. Bag-lining. No. 1,129,495; Feb. 23; Gaz. vol. 211; p. 1116.
- Kiger, Edrick N., Plummer, Idaho. Mechanical movement. No. 1,136,911; Apr. 20; Gaz. vol. 213; p. 1085.
- Kilberry, George D., Worcester, Mass., assignor to Rice, Barton & Fales Machine & Iron Company. Fourdrinier machine. No. 1,147,871; July 27; Gaz. vol. 216; p. 1080.
- Kilborn, Warren, Scotts Mills, Oreg. Stump-puller. No. 1,159,953; Nov. 9; Gaz. vol. 220; p. 577.
- Kilbourn Manufacturing Corporation. (See Mettler and Smith, assignors.)
- Kilbourn Manufacturing Corporation. (See Smith, William E., assignor.)
- Kilbourn, William D., Tooele, Utah. Reduction of metals from their ores by carbon from solid fuel. No. 1,148,782; Aug. 3; Gaz. vol. 217; p. 108.
- Kilbourne, Herbert L., Memphis, Tenn. Signaling device for elevators. No. 1,140,165; May 18; Gaz. vol. 214; p. 934.
- Kilbourne and Jacobs Manufacturing Company, The. (See Cardtadner, Roy E., assignor.)
- Kilburn, Charles, Cincinnati, Ohio. Stone-cutting tool. No. 1,158,811; Nov. 2; Gaz. vol. 220; p. 142.
- Kilburn, John E., assignor to Hale and Kilburn Company, Philadelphia, Pa. Vehicle-body. No. 1,148,236; July 27; Gaz. vol. 216; p. 1209.
- Kilchenstein, Walter F. (See Chisholm, Herman T., assignor.)
- Kildear, John, London, England. Coupling device for candles, pipes, shafts, and similar objects. No. 1,164,197; Dec. 14; Gaz. vol. 221; p. 556.
- Kilgore, Charles F., Minneapolis, Minn. Boat-propelling kit. No. 1,164,361; Dec. 14; Gaz. vol. 221; p. 615.
- Kilgore, Charles V., Sykesville, Md. Trace-fastener. No. 1,137,636; Apr. 27; Gaz. vol. 213; p. 1380.
- Kilgore, Elmer A., Lorimer, and J. W. Keller, East Peru, Iowa. Palmetto-root plow. No. 1,143,204; June 15; Gaz. vol. 215; p. 820.
- Kilgore, Thad S. (See Tibbles and Kilgore.)
- Kilgour, Dwight F., Lexington, Mass. Lubricator. No. 1,136,426; Apr. 20; Gaz. vol. 213; p. 913.
- Kilker, John E., and C. W. Dake, assignors to Pyle-National Electric Headlight Company, Chicago, Ill. Manufacturing bucket-wheels. No. 1,141,190; June 1; Gaz. vol. 215; p. 35.
- Killark Electric Manufacturing Company. (See Britt, William J., Jr., assignor.)
- Killark Electric Manufacturing Company. (See Woolley, Walton D., assignor.)
- Killefer, Henry B., and W. J. Boyd, Los Angeles, Cal. Faucet. No. 1,159,685; Nov. 9; Gaz. vol. 220; p. 478.
- Killian, Cleburg W., Oakland, Cal. Air-releasing appliance for signals, switches, and the like. No. 1,148,025; July 27; Gaz. vol. 216; p. 1135.
- Killian, Frank J., Colgate, Md. Shutter-operator. No. 1,132,098; Mar. 16; Gaz. vol. 212; p. 857.
- Killifer Manufacturing Company. (See Bean, Charles E., assignor.)
- Killin, George W., Huntington, W. Va. Hose-coupling for fire-hydrants. No. 1,166,223; Dec. 28; Gaz. vol. 221; p. 1348.
- Killinger, Joseph A. (See Bean and Killinger.)
- Killion, John F., Attleboro, Mass. Key-ring. No. 1,165,882; Dec. 28; Gaz. vol. 221; p. 1224.
- Killman, Thomas A., assignor of one-fourth to E. H. Roy, Nashville, Tenn. Means for taking and projecting moving pictures. No. 1,136,236; Apr. 20; Gaz. vol. 213; p. 844.
- Killman, Thomas A., Nashville, assignor of sixty-five one-hundredths to E. H. Roy, Tullahoma, and ten one-hundredths to W. L. Danley, Nashville, Tenn. Valve for hydraulic pumps or motors. No. 1,124,749; Jan. 12; Gaz. vol. 210; p. 587.
- Killman, Thomas A., assignor of one-tenth to W. L. Danley, Nashville, and one-tenth to E. H. Roy, Tullahoma, Tenn. Hydraulic transmission system. No. 1,145,317; July 6; Gaz. vol. 216; p. 118.
- Killman, Thomas A., assignor of twenty-six and one-fourth one-hundredths to W. L. Danley, Nashville, ten one-hundredths to E. H. Roy, Tullahoma, and eighteen and three-fourths one-hundredths to T. Taylor, Nashville, Tenn. Steam-boiler. No. 1,152,421; Sept. 7; Gaz. vol. 218; p. 14.
- Killough, Robert S., *et al.* (See Howard, Jewell, assignor.)
- Killpatrick, John W., Lowell, Mass. Release mechanism for shuttles. No. 1,153,500; Sept. 14; Gaz. vol. 218; p. 441.
- Killpatrick, John W., Lowell, Mass. Shuttle-release mechanism. No. 1,156,148; Oct. 12; Gaz. vol. 219; p. 312.
- Killpatrick, Patrick, Chicago, Ill. Cleaning-machine. No. 1,123,890; Jan. 5; Gaz. vol. 210; p. 236.
- Kilmer, Elmer E., assignor to The Federal Safety Window Company, Cleveland, Ohio. Ventilator-guard. No. 1,128,329; Feb. 16; Gaz. vol. 211; p. 674.
- Kilmer, Melvin D., Cleveland, Ohio. Window-sash fastener. No. 1,164,724; Dec. 21; Gaz. vol. 221; p. 781.
- Kilmer, William A., De Kalb, Ill., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Shears. No. 1,158,505; Nov. 2; Gaz. vol. 220; p. 33.
- Kilpatrick, Oliver P., Readout, Okla. Wrench. No. 1,138,957; May 11; Gaz. vol. 214; p. 472.
- Kilpatrick, William J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,152,517; Sept. 7; Gaz. vol. 218; p. 50.
- Kilrain, Annie E. (See Kilrain, Walter A. and A. E.)
- Kilrain, Walter A. and A. E., East Cleveland, Ohio, assignors, by mesne assignments, to J. S. Patterson, Pittsburgh, Pa. Adjustable shoe-tree. No. 1,146,941; July 20; Gaz. vol. 216; p. 728.
- Kilrain, Walter A. and A. E., Cleveland, Ohio, assignors, by mesne assignments, to J. S. Patterson, Pittsburgh, Pa. Shoe-tree. No. 1,149,370; Aug. 10; Gaz. vol. 217; p. 419.
- Kilroy, Willie D., Chiswick, England. Automatic position-indicator for guns. No. 1,158,233; Oct. 26; Gaz. vol. 219; p. 1135.
- Kilwinski, Frank H., assignor of one-half to W. Heusser, San Francisco, Cal. Rotary internal-combustion engine. No. 1,134,869; Apr. 6; Gaz. vol. 213; p. 282.
- Kim Manufacturing Company. (See Hall, Benjamin K., assignor.)
- Kimball, Dwight D., Medford, Mass., assignor, by mesne assignments, to Warren Webster & Company. Valve. No. 1,152,026; Aug. 31; Gaz. vol. 217; p. 1510.
- Kimball, Frank I., West Haven, assignor to Sargent & Company, New Haven, Conn. Padlock. No. 1,128,004; Feb. 9; Gaz. vol. 211; p. 511.
- Kimball, Frank I., West Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,762; May 4; Gaz. vol. 214; p. 14.
- Kimball, Frank I., West Haven, assignor to Sargent & Company, New Haven, Conn. Take-down square. No. 1,139,189; May 11; Gaz. vol. 214; p. 555.
- Kimball, Frank J., Los Angeles, Cal. Positive-scavenging two-cycle internal-combustion engine. No. 1,165,515; Dec. 28; Gaz. vol. 221; p. 1095.
- Kimball, George E., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Telephone busy-signal apparatus. No. 1,144,330; June 22; Gaz. vol. 215; p. 1236.
- Kimball, Gordon, Ouray, Colo. Combined push-button-controlled door-bell and illuminating sign. No. 1,163,349; Dec. 7; Gaz. vol. 221; p. 216.
- Kimball, Harry G., Bronxville, N. Y., assignor to The Whitin Machine Works, Whitinsville, Mass. Skewer-mounting. No. 1,137,983; May 4; Gaz. vol. 214; p. 91.
- Kimball, James L., Salem, assignor to Walter G. Ruggles Co., Boston, Mass. Damper-regulator mechanism for steam-pressure apparatus. No. 1,155,822; Oct. 5; Gaz. vol. 219; p. 174.
- Kimball, Lemuel B., and O. V. Hawk, Anthony, Kans. Fly-trap attachment for screens. No. 1,124,030; Jan. 5; Gaz. vol. 210; p. 282.
- Kimball, Perley L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Milk-feed regulator for cream-separators. No. 1,146,579; July 13; Gaz. vol. 216; p. 584.
- Kimball, Richard D., Medford, Mass. Sectional conduit. No. 1,149,920; Aug. 10; Gaz. vol. 217; p. 617.
- Kimball, Robert E. (See Dodge, Parker, assignor.)
- Kimball, Robert E., Cleveland, Ohio. Transfer-printing machine. No. 1,140,748; May 25; Gaz. vol. 214; p. 1171.
- Kimball, Robert E., Cleveland, Ohio. Blade-sharpener. No. 1,152,321; Aug. 31; Gaz. vol. 217; p. 1611.
- Kimbark, Charles, Stanford, Mont. Safety-book. No. 1,159,501; Nov. 9; Gaz. vol. 220; p. 413.
- Kimbel, Thomas J. (See Vose, Walter F., assignor.)
- Kimbell, William A., Birmingham, Ala. Plow. No. 1,157,399; Oct. 19; Gaz. vol. 219; p. 782.
- Kimbell, William A., Birmingham, Ala. Plow. No. 1,159,134; Oct. 26; Gaz. vol. 219; p. 1101.

Alphabetical list of patentees—Continued.

- Kimberly-Clark Company. (See Wheeler, Frank G., assignor.)
- Kimble, Austin, Oak Park, and J. D. Nies, St. Charles, assignors to Kimble Electric Company, Chicago, Ill. Adjustable speed control for electric motors. No. 1,128,005; Feb. 9; Gaz. vol. 211; p. 511.
- Kimble Electric Company. (See Kimble and Nies, assignors.)
- Kimble, James P., What Cheer, Iowa. Reinforced-concrete post. No. 1,137,952; May 4; Gaz. vol. 214; p. 91.
- Kimble, James P., What Cheer, Iowa. Reinforced-concrete post. No. 1,163,241; Dec. 7; Gaz. vol. 221; p. 177.
- Kimbley, Charles M. (See Phipps, William T., assignor.)
- Kimbrel, George A., Avondale, Colo. Ditching-machine. No. 1,139,190; May 11; Gaz. vol. 214; p. 556.
- Kime, Orville F., Crestline, Ohio. Display-rack. No. 1,138,488; May 4; Gaz. vol. 214; p. 270.
- Kimerer, Joseph C., Paris, Tex. Inside-trimming machine for trimming wooden handles for tools and the like. No. 1,128,610; Feb. 16; Gaz. vol. 211; p. 769.
- Kimes, David B., Spring City, Pa. Stitch-changing mechanism for knitting-machines. No. 1,137,493; Apr. 27; Gaz. vol. 213; p. 1331.
- Kimes, Grant C., Ogden, Utah. Cleaning-brush. No. 1,153,118; Sept. 7; Gaz. vol. 218; p. 266.
- Kimes, Hugh W., assignor to The Vaile-Kimes Company, Dayton, Ohio. Pump. No. 1,128,792; Feb. 16; Gaz. vol. 211; p. 832.
- Kimes, Hugh W., assignor to Vaile & Kimes, Dayton, Ohio. Fluid-motor. No. 1,132,188; Mar. 16; Gaz. vol. 212; p. 891.
- Kimes, Hugh W., assignor to The Vaile-Kimes Company, Dayton, Ohio. Pump. No. 1,166,224; Dec. 28; Gaz. vol. 221; p. 1348.
- Kimmel, Arthur H., Berlin, Ontario, Canada. Shirt. No. 1,140,834; May 25; Gaz. vol. 214; p. 1201.
- Kimmel, Charles P., Gary, Ind. Rail-joint. No. 1,145,023; July 6; Gaz. vol. 216; p. 17.
- Kimmel, Earl G., Stoyestown, Pa. Plow. No. 1,141,965; June 8; Gaz. vol. 215; p. 344.
- Kimmel, Howard S., Tiffin, Ohio. Automatic electrical wire-coupling for cars. No. 1,154,027; Sept. 21; Gaz. vol. 218; p. 660.
- Kimmel, Howard S., Tiffin, Ohio. Train-pipe coupling. No. 1,154,028; Sept. 21; Gaz. vol. 218; p. 660.
- Kimmel, Howard S., Tiffin, Ohio. Fluid-pressure coupling-head. No. 1,154,029; Sept. 21; Gaz. vol. 218; p. 660.
- Kimmel, Richard, St. Ingbert, Rheinpfalz, Germany. Crane. No. 1,147,176; July 20; Gaz. vol. 216; p. 810.
- Kimmell, Herbert L., Los Angeles, Cal., assignor, by mesne assignments, to W. F. B. Tompkins, New York, N. Y. Carburetor. No. 1,156,084; Oct. 12; Gaz. vol. 219; p. 2907.
- Kimmich, Felix H. (See Blaul and Kimmich.)
- Kimmich, Karl. (See Voelker and Kimmich.)
- Kimsey, Roy H., Gillett, Ark. Combined collar-button and necktie-fastener. No. 1,143,834; June 22; Gaz. vol. 215; p. 1061.
- Kimura, Homer, Gunn, Wyo. Electric lamp. No. 1,159,047; Nov. 2; Gaz. vol. 220; p. 220.
- Kinard, Chester E., Cooper, Tex. Door-check. No. 1,131,711; Mar. 16; Gaz. vol. 212; p. 716.
- Kinast, Edward L., Chicago, Ill. Scoring attachment for printing-presses. No. 1,144,139; June 22; Gaz. vol. 215; p. 1169.
- Kincade, Elmer C., assignor of one-half to J. F. Fisher, Beaumont, Tex. Ignition-tube heater. No. 1,149,921; Aug. 10; Gaz. vol. 217; p. 617.
- Kincaid, Robert, Youngstown, Ohio. Tool. No. 1,144,210; June 22; Gaz. vol. 215; p. 1195.
- Kinch, Arthur J., Ogdensburg, N. Y., assignor of one-half to J. Cotter, Chicago, Ill. Hose-reel. No. 1,147,327; July 20; Gaz. vol. 216; p. 861.
- Kindel, Arthur W., Denver, Colo. Mattress. No. 1,159,846; Nov. 9; Gaz. vol. 220; p. 539.
- Kindell, James J. (See Slatter and Kindell.)
- Kindermann, Franz, Berlin, Germany. Crutch. No. 1,137,008; Apr. 27; Gaz. vol. 213; p. 1157.
- Kindervater, Julius, Richmond, Va., assignor to Locomotive Superheater Company, New York, N. Y. Making U-shaped pipe-bends. No. 1,137,267; Apr. 27; Gaz. vol. 213; p. 1252.
- Kindervater, Julius, Richmond, Va., assignor to Locomotive Superheater Company, New York, N. Y. Making U-shaped pipe-bends. No. 1,138,227; May 4; Gaz. vol. 214; p. 176.
- Kindervater, Julius, Richmond, Va., assignor to Locomotive Superheater Company, New York, N. Y. Making U-shaped pipe-bends. No. 1,138,228; May 4; Gaz. vol. 214; p. 176.
- Kindervater, Julius, Richmond, Va., assignor to Locomotive Superheater Company, New York, N. Y. Steam-boiler superheater. No. 1,165,977; Dec. 23; Gaz. vol. 221; p. 1257.
- Kindl, F. H., administrator. (See Kindl, Frederick H.)
- Kindl, Frederick H., deceased, Pittsburgh, Pa.; F. H. Kindl, Jr., administrator. Apparatus for handling materials. No. 1,142,968; June 15; Gaz. vol. 215; p. 735.
- Kindland, Erick N., Jamestown, N. Y. Toy bank. No. 1,155,583; Oct. 5; Gaz. vol. 219; p. 89.
- Kindleberger, Jacob, assignor to The Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich. Waterproof paper and manufacture. No. 1,126,783; Feb. 2; Gaz. vol. 211; p. 42.
- Kindred, Anna D., Fargo, N. D. Finger-nail shield. No. 1,135,382; Apr. 13; Gaz. vol. 213; p. 503.
- Kindred, Millard F., Petersburg, Ill. Manure-loader. No. 1,127,636; Feb. 9; Gaz. vol. 211; p. 378.
- Kindt, Henry R., Floral Park, N. Y. Stipple-brush. No. 1,154,928; Sept. 28; Gaz. vol. 218; p. 996.
- Kinealy, John H., Ferguson, Mo. Valve device. No. 1,127,018; Feb. 2; Gaz. vol. 211; p. 125.
- Kinealy, John H., Ferguson, Mo. Diaphragm. No. 1,150,606; Aug. 17; Gaz. vol. 217; p. 919.
- Kinemacolor Company of America. (See Fox, William F., assignor.)
- King, Alonzo A., Paonia, Colo. Nut-lock. No. 1,139,191; May 11; Gaz. vol. 214; p. 556.
- King, Anna A., et al. (See Jones, John A., assignor.)
- King, Annie L., assignor of one-half to C. J. L. King, Chicago, Ill. Syringe. No. 1,127,898; Feb. 9; Gaz. vol. 211; p. 475.
- King, Anthony J., Baltimore, Md. Shower-bath fixture. No. 1,148,970; Aug. 3; Gaz. vol. 217; p. 172.
- King, Bertell W., Brooklyn, N. Y. Explosive-engine. No. 1,147,101; July 20; Gaz. vol. 216; p. 782.
- King Candy Company. (See Greer, Jesse W., assignor.)
- King, Carlos C., Indianapolis, Ind. Dump-wagon. No. 1,143,405; June 15; Gaz. vol. 215; p. 891.
- King, Charles B., Detroit, Mich., assignor, by mesne assignments, to King Motor Car Company. Change-speed gearing. No. 1,134,681; Apr. 6; Gaz. vol. 213; p. 218.
- King, Charles B., and J. W. Fellmeth, assignors to The Marion Steam Shovel Company, Marion, Ohio. Lower tumbler. No. 1,125,119; Jan. 19; Gaz. vol. 210; p. 753.
- King, Charles B., and J. W. Fellmeth, assignors to The Marion Steam Shovel Company, Marion, Ohio. Friction-clutch. No. 1,128,006; Feb. 9; Gaz. vol. 211; p. 511.
- King, Charles B., and C. B. Weston, assignors to The Marion Steam Shovel Company, Marion, Ohio. Sheave-block. No. 1,149,837; Aug. 10; Gaz. vol. 217; p. 586.
- King, Charles B., and C. B. Weston, assignors to The Marion Steam Shovel Company, Marion, Ohio. Exhaust-nozzle. No. 1,154,026; Sept. 21; Gaz. vol. 218; p. 659.
- King, Charles B., and C. B. Weston, assignors to The Marion Steam Shovel Company, Marion, Ohio. Excavating-machine. No. 1,164,652; Dec. 21; Gaz. vol. 221; p. 756.
- King, Charles B., and H. T. Gracely, assignors to The Marion Steam Shovel Company, Marion, Ohio. Brake mechanism for shipper-shafts. No. 1,162,074; Nov. 30; Gaz. vol. 220; p. 1467.
- King, Charles B., B. Jacoby, and C. S. Johnson, assignors to The Marion Steam Shovel Company, Marion, Ohio. Steering mechanism. No. 1,126,229; Jan. 26; Gaz. vol. 210; p. 1185.
- King, Charles B., C. B. Weston, Marion, Ohio, and G. Holmes, Danville, Ill., assignors to The Marion Steam Shovel Company, Marion, Ohio. Spacer for dipper-handles. No. 1,128,152; Feb. 9; Gaz. vol. 211; p. 563.
- King, Charles B., Marion, Ohio, G. Holmes, Danville, Ill., B. Jacoby and H. E. Roush, assignors to The Marion Steam Shovel Company, Marion, Ohio. Excavating-machine. No. 1,128,151; Feb. 9; Gaz. vol. 211; p. 562.
- King, Charles B., C. B. Weston, H. E. Roush, Marion, Ohio, and G. Holmes, Danville, Ill., assignors to The Marion Steam Shovel Company, Marion, Ohio. Brake-drum. No. 1,159,502; Nov. 9; Gaz. vol. 220; p. 413.
- King, Charles H. (See Lawrenson and King.)
- King, Charles H., assignor to National Time Service & Advertising Co., Oakland, Cal. Advertising apparatus. No. 1,165,182; Dec. 21; Gaz. vol. 221; p. 943.
- King, Charles J. L. (See King, Annie L., assignor.)
- King, Charles T., assignor of one-fourth to H. M. Anderson, Moline, Ill. Trap-nest. No. 1,138,664; May 11; Gaz. vol. 214; p. 367.
- King, Clarence R., Worcester, Mass., assignor to Norton Company, Grinding. No. 1,146,884; July 20; Gaz. vol. 216; p. 708.
- King, Claudius C., C. B. Lambert, and J. H. Gible, Sioux City, Iowa. Shirt-finishing device for laundries. No. 1,158,234; Oct. 26; Gaz. vol. 219; p. 1135.
- King Construction Company. (See King, Robert O., as signor.)
- King, Edward, Washington, D. C. Valve. No. 1,157,163; Oct. 19; Gaz. vol. 219; p. 697.
- King, Edward K., Hamill, S. D. Headlight. No. 1,135,456; Apr. 13; Gaz. vol. 213; p. 529.
- King, Edward P., Painesville, Ohio. Sleeping-garment. No. 1,143,282; June 15; Gaz. vol. 215; p. 846.
- King, Edward S. (See King, Joseph F. and E. S.)
- King, Ernest A., assignor to Henry Disston & Sons Incorporated, Philadelphia, Pa. Square. No. 1,135,814; Apr. 13; Gaz. vol. 213; p. 656.
- King, Eugene F., Guilford, N. C. Package-tie. No. 1,144,211; June 22; Gaz. vol. 215; p. 1195.
- King, Fred B., assignor to National Spring and Wire Company, Albion, Mich. Spring construction. No. 1,155,425; Oct. 5; Gaz. vol. 219; p. 35.
- King, Garry D., Columbus, Ga. Soldering-iron. No. 1,163,157; Dec. 7; Gaz. vol. 221; p. 148.

Alphabetical list of patentees—Continued.

- King, George A. (See Herb and King.)
- King, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Tack-fastened button. No. 1,127,637; Feb. 9; Gaz. vol. 211; p. 378.
- King, George H., Salt Lake City, Utah. Adjustable support for washbasins. No. 1,130,907; Mar. 9; Gaz. vol. 212; p. 406.
- King, George R., West New Brighton, and S. W. Fancher, New Brighton, assignors to J. B. King & Company, New York, N. Y. Rag-filling machine. No. 1,124,459; Jan. 12; Gaz. vol. 210; p. 483.
- King, George W., Worcester, Mass. Producing printed and embossed sheets. No. 1,143,767; June 22; Gaz. vol. 215; p. 1038.
- King & Hamilton. (See Gilman, John H., assignor.)
- King, Harry H., trustee. (See Jefferson, Benjamin H., assignor.)
- King, Horace W., Chicago, Ill. Fluid-meter. No. 1,124,144; Jan. 5; Gaz. vol. 210; p. 321.
- King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet-feeding machine. No. 1,154,466; Sept. 21; Gaz. vol. 218; p. 790.
- King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet-feeding machine. No. 1,154,407; Sept. 21; Gaz. vol. 218; p. 791.
- King, Jacob P., Philadelphia, Pa. Rotary valve. No. 1,130,521; Mar. 2; Gaz. vol. 212; p. 239.
- King, James A., Brazil, Ind. Bail-car and cover and supplemental-casing fastening. No. 1,127,638; Feb. 9; Gaz. vol. 211; p. 379.
- King, James A., Brazil, Ind. Toy. No. 1,146,333; July 13; Gaz. vol. 216; p. 495.
- King, James F., Milwaukee, Wis. Roller-bearing. No. 1,139,192; May 11; Gaz. vol. 214; p. 557.
- King, James G. (See Scarborough and King.)
- King, James L. O. (See King and Fox.)
- King, James L. O. (See King, Fox, and King.)
- King, Jesse C., assignor of one-third to F. Freyler, La Junta, Colo. Agitator. No. 1,140,465; May 25; Gaz. vol. 214; p. 1074.
- King, Joel R., Eagle Lake, Fla. Draft-hook. No. 1,165,606; Dec. 28; Gaz. vol. 221; p. 1128.
- King, John F., *et al.* (See Kutter, Herman L., assignor.)
- King, John F. and J. Neary, Kalamazoo, Mich., assignors of one-half to F. C. Townbridge and H. L. Kutter, Hamilton, Ohio. Machine for treating paper-pulp. No. 1,159,589; Nov. 9; Gaz. vol. 220; p. 414.
- King, John G., Burlington, N. C. Warp-dyeing machine. No. 1,148,695; Aug. 3; Gaz. vol. 217; p. 76.
- King, John H., Cincinnati, Ohio. Molding sticky and viscous materials. No. 1,165,677; Dec. 28; Gaz. vol. 221; p. 1154.
- King, John J., assignor of two-thirds to J. A. Moore, trustee, San Francisco, Cal. Sanitary wagon-top. No. 1,127,019; Feb. 2; Gaz. vol. 211; p. 126.
- King, Joseph F. and E. S., Brookline, assignors to M. H. King, Arlington, Mass. Take-up device for joints. No. 1,150,125; Aug. 17; Gaz. vol. 217; p. 751.
- King, Joseph H., assignor by mesne assignments, to American Standard Oil Burner Co., Oakland, Cal. Centrifugal burner. No. 1,158,058; Oct. 26; Gaz. vol. 219; p. 1073.
- King, Joseph M., Jacksonville, Fla. Fluid-tractor. No. 1,125,341; Jan. 19; Gaz. vol. 210; p. 834.
- King, Joseph M., Jacksonville, Fla. Fluid-tractor. No. 1,125,342; Jan. 19; Gaz. vol. 210; p. 834.
- King, Joseph M., Jacksonville, Fla. Fluid-tractor. No. 1,153,798; Sept. 14; Gaz. vol. 218; p. 545.
- King, Joseph V., Jr., and G. E. Ruffley, Glenfield, Pa. Curtain-support. No. 1,155,823; Oct. 5; Gaz. vol. 219; p. 175.
- King Lock Company, The. (See Baird, Edward P., assignor.)
- King Machine Company, The. (See Christie, Albert H., assignor.)
- King Machine Company, The. (See Smith and Christie, assignors.)
- King Machine Company, The. (See Smith, Friend W., Jr., assignor.)
- King Machine Company, The. (See Warner, Frederick E., assignor.)
- King, Madison M., Albany, N. Y., assignor to J. O. A. and C. Whittemore, Boston, Mass. Box. No. 1,138,384; May 4; Gaz. vol. 214; p. 234.
- King, Martin. (See Carvalho, Leslie R., assignor.)
- King, Mary H. (See King, Joseph F. and E. S., assignors.)
- King Motor Car Company. (See Chase and Ward, assignors.)
- King Motor Car Company. (See King, Charles B., assignor.)
- King, Nathan H., Solvay, N. Y. Sewer-trap. No. 1,159,907; Oct. 19; Gaz. vol. 219; p. 606.
- King, Norman, Sr., Canton, Ohio. Resilient wheel. No. 1,137,063; Apr. 27; Gaz. vol. 213; p. 1177.
- King, Norman, Sr., Canton, Ohio. Roll for rolling-mills. No. 1,138,665; May 11; Gaz. vol. 214; p. 368.
- King, O'Dell, T. H. Fox, and J. L. O. King, Sandy Springs, S. C. Nut and bolt lock. No. 1,138,574; May 4; Gaz. vol. 214; p. 297.
- King, O'Dell and J. L. O., and T. H. Fox, Sandy Springs, S. C. Vehicle-hub. No. 1,157,550; Oct. 19; Gaz. vol. 219; p. 833.
- King, Orrin H., Wallace, Idaho. Ore-concentrator. No. 1,148,591; Aug. 3; Gaz. vol. 217; p. 39.
- King, Raymond D., Lamolille, Ill. Corn-kiln. No. 1,152,644; Sept. 7; Gaz. vol. 218; p. 97.
- King, Reginald A., London, England. Game apparatus. No. 1,132,189; Mar. 16; Gaz. vol. 212; p. 891.
- King, Richard H. (See Gleason, Edward D., assignor.)
- King, Robert. (See Cotton, Kennedy, and King.)
- King, Robert N. (See Cook, Frederick H., assignor.)
- King, Robert N., Dayton, Ohio. Tobacco-harvester. No. 1,134,206; Apr. 6; Gaz. vol. 213; p. 45.
- King, Robert O., Buffalo, assignor to King Construction Company, North Tonawanda, N. Y. Truss-coupling. No. 1,165,419; Dec. 28; Gaz. vol. 221; p. 1063.
- King, Rufus, Plainville, Mass., assignor to Bugbee & Niles Co., Providence, R. I. Bracelet or endless chain. No. 1,132,099; Mar. 16; Gaz. vol. 212; p. 857.
- King, Rufus, Plainville, Mass., assignor to Bugbee & Niles Co., Providence, R. I. Link for expandible bracelets. No. 1,141,552; June 1; Gaz. vol. 215; p. 166.
- King, Rufus, Plainville, Mass., assignor to Bugbee & Niles Co., Providence, R. I. Extensible bracelet-chain. No. 1,143,545; June 15; Gaz. vol. 215; p. 937.
- King, V. F. (See Goldberg, Maximilian M., assignor.)
- King, Virgil E., Palmyra, Ill. Shuttle riding-plow. No. 1,152,896; Sept. 7; Gaz. vol. 218; p. 190.
- King, Walter G., New York, N. Y. Goggles. No. 1,137,494; Apr. 27; Gaz. vol. 213; p. 1332.
- King, Walter W., Denver, Colo. Automatic view-finder. No. 1,137,864; May 4; Gaz. vol. 214; p. 49.
- King, Whitcomb R., Ipswich, Mass. Automatic hinge car-fender. No. 1,159,048; Nov. 2; Gaz. vol. 220; p. 220.
- King, William E., Greenville, S. C., assignor of one-fourth to A. J. Westmoreland, Bailey, N. C. Wheel-lubricator. No. 1,163,414; Dec. 7; Gaz. vol. 221; p. 237.
- King, William L., Houston, Mo. Molasses and syrup pitcher. No. 1,156,784; Oct. 12; Gaz. vol. 219; p. 532.
- King, William P., Syracuse, N. Y. Egg-carrier. No. 1,136,237; Apr. 20; Gaz. vol. 213; p. 844.
- King, William T., Rosanky, Tex. Vise and saw-clamp. No. 1,135,815; Apr. 13; Gaz. vol. 213; p. 656.
- King, Wylie D., Medina, Tex. Jaws for animal-traps. No. 1,136,015; Apr. 20; Gaz. vol. 213; p. 767.
- Kingberry, Paul D., and W. J. McCarthy, Montreal, Quebec, Canada. Dry-pipe valve. No. 1,144,849; June 29; Gaz. vol. 215; p. 1443.
- Kincaide, William J., Freeman, Mo. Wire-stretching appliance. No. 1,157,551; Oct. 19; Gaz. vol. 219; p. 833.
- Kincerv, Samuel S. (See McFarren, Charles E., assignor.)
- Kingham, Henry H. (See Andrew, Slocombe, and Kingham.)
- Kinsman, Barton E., Yonkers, N. Y. Disk-record cabinet. No. 1,127,091; Feb. 2; Gaz. vol. 211; p. 151.
- Kingsbury, Albert, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rotor for dynamo-electric machines. No. 1,162,493; Nov. 30; Gaz. vol. 220; p. 1612.
- Kingsbury, E. H., agent. (See Koehler, Ernest F., assignor.)
- Kingsbury, George P., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,126,481; Jan. 26; Gaz. vol. 210; p. 1273.
- Kingsbury, George P., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,130,174; Mar. 2; Gaz. vol. 212; p. 115.
- Kingsbury, George P., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,130,175; Mar. 2; Gaz. vol. 212; p. 116.
- Kingsbury, Harry T., Keene, N. H. Self-propelled toy vehicle. No. 1,144,850; June 29; Gaz. vol. 215; p. 1443.
- Kingsbury, William M., Cleveland, Ohio. Window-refrigerator. No. 1,143,205; June 15; Gaz. vol. 215; p. 821.
- Kingsbury, William M., Cleveland, Ohio. Hot-blast heater. No. 1,145,688; July 6; Gaz. vol. 216; p. 249.
- Kingsdorf, Ren. (See Liss, Samuel A., assignor.)
- Kingsford, Thomas P., *et al.* (See Lorenz, Friedrich, assignor.)
- Kingsley, George E., Spokane, Wash. Treating complex sulfid ores. No. 1,144,480; June 29; Gaz. vol. 215; p. 1315.
- Kingsley, Horace L., Racine, Wis. Laundry sundry. No. 1,141,345; June 1; Gaz. vol. 215; p. 91.
- Kingsley, James R., and H. W. Miller, Rochester, N. Y. Index-tab. No. 1,151,475; Aug. 24; Gaz. vol. 217; p. 1272.
- Kingsley, Michael W. (See Rutzen and Kingsley.)
- Kingsley, William, assignor of one-half to A. C. Phillips, Seattle, Wash. Vehicle-wheel. No. 1,135,290; Apr. 13; Gaz. vol. 213; p. 471.
- Kinston, Frank L., Cleveland, Ohio. Carbureter. No. 1,156,149; Oct. 12; Gaz. vol. 219; p. 813.
- Kinston, George, Kokomo, Ind. Carbureter. No. 1,130,981; Mar. 9; Gaz. vol. 212; p. 430.
- Kinston, William H., New Haven, assignor to S. O. & C. Co., Ansonia, Conn. Manufacture of celluloid-covered articles. No. 1,164,821; Dec. 21; Gaz. vol. 221; p. 815.
- Kinkade, Joseph H., *et al.* (See Smith, Edgar W., assignor.)
- Kinkead Manufacturing Company. (See Hafner, Charles, assignor.)
- Kinkead, Robert S., Minneapolis, Minn. Connecting-rod. No. 1,130,982; Mar. 9; Gaz. vol. 212; p. 431.

Alphabetical list of patentees—Continued.

- Klann, Simeon E., Lake Helen, Fla. Non-refillable bottle. No. 1,149,068; Aug. 3; Gaz. vol. 217; p. 206.
- Kinnard, Robert M., assignor of one-third to J. Y. Bowser and J. S. Frederick, Kittanning, Pa. Barrel-jack. No. 1,158,235; Oct. 26; Gaz. vol. 219; p. 1135.
- Kinne, Edmund P. (See Janney and Kinne.)
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Wedge-lock for couplings. No. 1,124,914; Jan. 12; Gaz. vol. 210; p. 645.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Pocket-coupling. (Reissue.) No. 1,388,1; Feb. 16; Gaz. vol. 211; p. 927.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Coupling-lock. No. 1,140,166; May 18; Gaz. vol. 214; p. 935.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Car-coupling. No. 1,151,691; Aug. 31; Gaz. vol. 217; p. 1333.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Draft-rigging for pilot-couplings. No. 1,157,874; Oct. 26; Gaz. vol. 219; p. 1008.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Coupling-centering device. No. 1,165,678; Dec. 28; Gaz. vol. 221; p. 1154.
- Kinnear, Alexander, Toledo, Ohio. Mold-plunger. No. 1,152,518; Sept. 7; Gaz. vol. 218; p. 50.
- Kinnear, Alexander, Toledo, Ohio. Forming a bifocal lens. No. 1,165,978; Dec. 28; Gaz. vol. 221; p. 1257.
- Kinnear, Herbert E., Marion, Ind. Bank-check. No. 1,164,198; Dec. 14; Gaz. vol. 221; p. 556.
- Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
- Kinnear Manufacturing Company, The. (See Rosenberg, Ralph H., assignor.)
- Kinnear, Robert S., assignor of one-half to A. P. Higgins, Laramie, Wyo. Automatic car-journal cooler. No. 1,134,620; Apr. 6; Gaz. vol. 213; p. 195.
- Kinnear, William R., New York, N. Y. Separating adhering metal sheets. No. 1,126,482; Jan. 26; Gaz. vol. 210; p. 1274.
- Kinnear, William R., New Castle, Pa. Metal-sheet-separating machine. No. 1,130,983; Mar. 9; Gaz. vol. 212; p. 431.
- Kinzel, Henry, Seattle, Wash. Motor-vehicle. No. 1,154,321; Sept. 21; Gaz. vol. 218; p. 760.
- Kinner, Albert S., and M. H. Paine, Glenellyn, Ill., assignors to Heywood Brothers and Wakefield Company, Worcester, Mass. Folding chair. No. 1,148,905; Aug. 3; Gaz. vol. 217; p. 149.
- Kinney, Charles A., Seneca, Pa. Engine and means for controlling the operation of the same. No. 1,150,683; Aug. 17; Gaz. vol. 217; p. 946.
- Kinney, Edward G. (See Howard and Kinney.)
- Kinney, Frank, Oakdale, Pa. Clamp for derricks. No. 1,127,450; Feb. 9; Gaz. vol. 211; p. 316.
- Kinney, Harry A., Lansing, Mich. Electric accumulator. No. 1,123,756; Jan. 5; Gaz. vol. 210; p. 191.
- Kinney, Joseph W., Goldcreek, Mont. Water-motor. No. 1,156,692; Oct. 12; Gaz. vol. 219; p. 502.
- Kinney, Justus R., Boston, Mass. Air-motor. No. 1,123,311; Jan. 5; Gaz. vol. 210; p. 38.
- Kinney, Justus R., Dorchester, Mass. Road-oller. No. 1,139,423; May 11; Gaz. vol. 214; p. 636.
- Kinney, Justus R., assignor to The Kinney Manufacturing Company, Boston, Mass. Rotary pump. No. 1,135,291; Apr. 13; Gaz. vol. 213; p. 471.
- Kinney, Justus R., Dorchester, assignor to The Kinney Manufacturing Company, Boston, Mass. Rotary pump. No. 1,137,215; Apr. 27; Gaz. vol. 213; p. 1231.
- Kinney Manufacturing Company, The. (See Kinney, Justus R., assignor.)
- Kinney-Rome Company *et al.* (See Blood, Burr B., assignor.)
- Kino Limited. (See Anderson, Walter H., assignor.)
- Kinsey & Mahler Co. (See Kinsey, Samuel A., Jr., assignor.)
- Kinsey, Samuel A., Jr., assignor to Kinsey & Mahler Co., Peoria, Ill. Vacuum-valve. No. 1,164,098; Dec. 14; Gaz. vol. 221; p. 522.
- Kinsey, William E. (See Starbuck, Brownlow, assignor.)
- Kinsley, Carl, Chicago, Ill. Relay and operating same. No. 1,126,483; Jan. 26; Gaz. vol. 210; p. 1274.
- Kinsley, Carl, Chicago, Ill. Electric signaling. No. 1,126,641; Jan. 26; Gaz. vol. 210; p. 1334.
- Kinsley, Carl, Chicago, Ill. System of telegraphic communication. No. 1,126,642; Jan. 26; Gaz. vol. 210; p. 1335.
- Kinsley, Carl, Chicago, Ill. Telegraphic transmission. No. 1,150,272; Aug. 17; Gaz. vol. 217; p. 804.
- Kinsley, William S., Reading, assignor to The Russell Company, Boston, Mass. Drier for sheet material. No. 1,164,288; Dec. 14; Gaz. vol. 221; p. 588.
- Kinsman, Charles C., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft-gear yoke. No. 1,164,725; Dec. 21; Gaz. vol. 221; p. 781.
- Kintner, Samuel M., *et al.*, receivers. (See Beakes, William E., assignor.)
- Kintner, Samuel M., *et al.*, trustees. (See Cohen, Louis, assignor.)
- Kintner, Samuel M., *et al.*, receivers. (See Fessenden, Reginald A., assignor.)
- Kintner, Samuel M., *et al.*, receivers. (See Hogan, John L., Jr., assignor.)
- Kintner, Samuel M., *et al.*, receivers. (See Kintner and Lee, assignors.)
- Kintner, Samuel M., *et al.*, receivers. (See Kroger, Fred H., assignor.)
- Kintner, Samuel M., *et al.*, receivers. (See Lee and Hogan, assignors.)
- Kintner, Samuel M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Bearing-housing. No. 1,138,666; May 11; Gaz. vol. 214; p. 368.
- Kintner, Samuel M., Pittsburgh, Pa., and J. W. Lee, Brant Rock, Mass., assignors, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Wireless-telegraph receiving apparatus. No. 1,132,588; Mar. 23; Gaz. vol. 212; p. 1085.
- Kintner, Theodore J., Denver, Colo. Gage attachment for planes. No. 1,144,041; June 22; Gaz. vol. 215; p. 1134.
- Kintner, Willard W., Des Moines, Iowa. Station-indicating device. No. 1,139,424; May 11; Gaz. vol. 214; p. 636.
- Kinzel, August, Lind, Wash. Clothes-drier. No. 1,142,888; June 15; Gaz. vol. 215; p. 708.
- Kinzev, Joseph, Johnstown, Pa. Vise. No. 1,133,156; Mar. 23; Gaz. vol. 212; p. 1294.
- Kinzie, John H., Charleston, S. C. Ticket-container. No. 1,155,737; Oct. 5; Gaz. vol. 219; p. 144.
- Kinzig, Louis D., Dayton, Ohio, assignor to Northern Water Softener Co. Automatic water-treating apparatus. No. 1,147,736; July 27; Gaz. vol. 216; p. 1033.
- Kinzig, Louis D., Dayton, Ohio, assignor to Northern Water Softener Co. Water-softening apparatus. No. 1,154,931; Sept. 21; Gaz. vol. 218; p. 627.
- Kip, Thomas H., New York, N. Y. Spring-tire. No. 1,128,330; Feb. 16; Gaz. vol. 211; p. 674.
- Kipp, Albert C. (See Neel, James L., assignor.)
- Kippen, Herbert D., A. T. Brown, and J. T. White, Spokane, Wash. Multiple-compartment coin-controlled vending-machine. No. 1,139,939; May 11; Gaz. vol. 214; p. 503.
- Kiraly, John. (See Virovatz and Kiraly.)
- Kirby, Alfred L., Newark, N. J. Sheet-metal door and the like. No. 1,136,238; Apr. 20; Gaz. vol. 213; p. 845.
- Kirby, Arthur, Unionville, Mo. Resilient wheel. No. 1,153,419; Sept. 7; Gaz. vol. 218; p. 266.
- Kirby, Charles A., La Fargeville, N. Y. Wagon-brake. No. 1,163,546; Dec. 7; Gaz. vol. 221; p. 283.
- Kirby, Charles H., Highland Park, assignor to Detroit Lubricator Company, Detroit, Mich. Carbureter. No. 1,159,049; Nov. 2; Gaz. vol. 220; p. 221.
- Kirby, Charles W., Stroughurst, Ill. Grave-filling machine. No. 1,123,891; Jan. 5; Gaz. vol. 210; p. 236.
- Kirby, Charles W., Stroughurst, Ill. Grave-filler. No. 1,123,892; Jan. 5; Gaz. vol. 210; p. 236.
- Kirby, James B., Cleveland, Ohio. Handhold vacuum-cleaner. No. 1,156,235; Oct. 12; Gaz. vol. 219; p. 340.
- Kirby, James J., Boone, Iowa. Umbrella attachment. No. 1,140,309; May 18; Gaz. vol. 214; p. 982.
- Kirby, John, Pittsburgh, Pa. Manufacturing composite metallic articles. No. 1,126,484; Jan. 26; Gaz. vol. 210; p. 1274.
- Kirby, Lewis H., Detroit, Mich. Auxiliary air-inlet for engines. No. 1,134,276; Apr. 6; Gaz. vol. 213; p. 71.
- Kirby, William B. (See Brown, Milo, assignor.)
- Kirch, Fredrick, Billings, Mont. Tie for railway-rails. No. 1,132,354; Mar. 16; Gaz. vol. 212; p. 951.
- Kirch, Henry, Santa Rosa, Cal. Farm-gate. No. 1,146,716; July 13; Gaz. vol. 216; p. 628.
- Kirchofer, August, assignor of one-half to T. A. Clarkson, Nashville, Tenn. Automatic sight-feed graphite lubricator. No. 1,145,318; July 6; Gaz. vol. 216; p. 119.
- Kirchoff, William G., Berwyn, assignor to The International Register Co., Chicago, Ill. Coin-register. No. 1,138,385; May 4; Gaz. vol. 214; p. 234.
- Kirchner, Charles, Sugar, Idaho. Centrifugal sugar-machine. No. 1,126,485; Jan. 26; Gaz. vol. 210; p. 1274.
- Kirchner, Henry W., St. Louis, Mo. Spring-wheel. No. 1,126,031; Jan. 26; Gaz. vol. 210; p. 1111.
- Kirk, Charles J., New Castle, Pa. Apparatus for forming articles of plastic material. No. 1,156,085; Oct. 12; Gaz. vol. 219; p. 291.
- Kirk, Edward H., Belle Center, Ohio. Feed mechanism for threshing-machines. No. 1,149,526; Aug. 10; Gaz. vol. 217; p. 473.
- Kirk, Ernest, Niagara, N. D. Shock and bundle loader. No. 1,150,206; Aug. 17; Gaz. vol. 217; p. 781.
- Kirk, Henry C., Jr., Roland Park, Md. Spring take-up. No. 1,142,817; June 15; Gaz. vol. 215; p. 682.
- Kirk Latty Manufacturing Company, The. (See Sleffel, William J., assignor.)
- Kirk, Thomas E., assignor of one-half to J. G. Lehr, Columbus, Ohio. Window-cleaning device. No. 1,152,519; Sept. 7; Gaz. vol. 218; p. 50.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Harp. No. 1,134,207; Apr. 6; Gaz. vol. 213; p. 45.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Washer. No. 1,153,232; Sept. 14; Gaz. vol. 218; p. 344.

Alphabetical list of patentees--Continued.

- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Harp-neck. No. 1,153,317; Sept. 14; Gaz. vol. 218; p. 374.
- Kirk, William F., Hollidaysburg, Pa. Keying device for rolls. No. 1,130,409; Mar. 2; Gaz. vol. 212; p. 197.
- Kirkham, Zachariah T., Mount Sterling, Ill. Combination wagon-body, hay and hog rack, and hog-chute. No. 1,136,813; Apr. 20; Gaz. vol. 213; p. 1050.
- Kirkland, William J., Blackwood, N. J. Capsule-filler. No. 1,147,512; July 20; Gaz. vol. 216; p. 928.
- Kirkman, Karl F., Delray, Fla., assignor to Automatic Press Feeder Company, Chicago, Ill. Printing-press. No. 1,141,191; June 1; Gaz. vol. 215; p. 35.
- Kirkman, Thomas W., assignor to Standard Gramophone Appliance Company, New York, N. Y. Stop for talking-machines. No. 1,165,679; Dec. 28; Gaz. vol. 221; p. 1155.
- Kirkpatrick, Frank C., Amory, Miss. Plow-stock. No. 1,144,042; June 22; Gaz. vol. 215; p. 1135.
- Kirkpatrick, George W., Rochester, N. Y. Sprinkling device for fire protection. No. 1,147,513; July 20; Gaz. vol. 216; p. 928.
- Kirkpatrick, Orson F., North English, Iowa. Air-brake coupling. No. 1,153,318; Sept. 14; Gaz. vol. 218; p. 374.
- Kirkpatrick, Willis B., Baltimore, Md. Aerating water in making ice. No. 1,161,219; Nov. 23; Gaz. vol. 220; p. 1122.
- Kirkpatrick, Willis B., Baltimore, Md. Apparatus for manufacturing ice. No. 1,162,075; Nov. 30; Gaz. vol. 220; p. 1468.
- Kirkwood, Robert, and C. Lee, Frankfort, Ind. Grain-car door. No. 1,129,496; Feb. 23; Gaz. vol. 211; p. 1117.
- Kirkwood, Robert G., Pittsburgh, Pa. Hydrocarbon-burner. No. 1,144,851; June 29; Gaz. vol. 215; p. 1443.
- Kirley, John R., New Straitsville, Ohio. Grabbing device. No. 1,162,787; Dec. 7; Gaz. vol. 221; p. 19.
- Kirner, Josef H. K., Stuttgart, assignor to Norma Compagnie G. m. b. H., Cannstatt-Stuttgart, Germany. Divided ball and roller bearing. No. 1,145,999; July 13; Gaz. vol. 216; p. 378.
- Kirsch, Charles W., assignor to Kirsch Manufacturing Co., Sturgis, Mich. Curtain-rod lock. No. 1,142,438; June 8; Gaz. vol. 215; p. 514.
- Kirsch Manufacturing Co. (See Kirsch, Charles W., assignor.)
- Kirschner, George W., West Haven, Conn. Locking-hinge. No. 1,139,193; May 11; Gaz. vol. 214; p. 557.
- Kirschwing, Joseph. (See Ellis, John W., assignor.)
- Kirshner, Abraham S., Philadelphia, Pa. Machine for extracting oils. No. 1,151,798; Aug. 31; Gaz. vol. 217; p. 1432.
- Kirshner, Nathaniel M., Buffalo, N. Y. Scarf-pin retainer. No. 1,154,408; Sept. 21; Gaz. vol. 218; p. 791.
- Kirstin, Alfred J., Escanaba, Mich. Slack-take-up mechanism. No. 1,143,713; June 22; Gaz. vol. 215; p. 1019.
- Kirstin, Alfred J., Escanaba, Mich. Slack-take-up mechanism. No. 1,148,906; Aug. 3; Gaz. vol. 217; p. 150.
- Kirtley, Richard E., Kansas City, Mo. Water-motor. No. 1,140,593; May 25; Gaz. vol. 214; p. 1121.
- Kish, Joseph, Cobalt, Ontario, Canada. Wrench. No. 1,141,715; June 1; Gaz. vol. 215; p. 223.
- Kish, Joseph, Cobalt, Ontario, Canada. Fire-escape. No. 1,156,908; Oct. 19; Gaz. vol. 219; p. 607.
- Kiso, Henry K., New York, N. Y. Advertising twine-box. No. 1,159,954; Nov. 9; Gaz. vol. 220; p. 577.
- Kispert, George H., assignor to Winchester Manufacturing Company, Baltimore, Md. Hypodermic syringe. No. 1,157,552; Oct. 19; Gaz. vol. 219; p. 833.
- Kispeter, Michael, New York, N. Y. Life-saving apparatus. No. 1,143,835; June 22; Gaz. vol. 215; p. 1062.
- Kissel, Bernard L., Joplin, Mo. Blowpipe. No. 1,145,246; July 6; Gaz. vol. 216; p. 95.
- Kissel, John M., East St. Louis, Ill. Automobile-fender. No. 1,155,933; Oct. 5; Gaz. vol. 219; p. 211.
- Kissing, Henry. (See Woodruff and Kissing.)
- Kissinger, Levi R., Buffalo, N. Y. Non-refillable bottle. No. 1,159,394; Nov. 9; Gaz. vol. 220; p. 375.
- Kissinger, Ray G., Camden, N. J. Locking device for grease-cups. No. 1,149,268; Aug. 10; Gaz. vol. 217; p. 381.
- Kistler, John C., Clinton, Mo. Clover-huller. No. 1,123,312; Jan. 5; Gaz. vol. 210; p. 39.
- Kistler, William J., Coopersburg, Pa. System of electrical wiring. No. 1,132,355; Mar. 16; Gaz. vol. 212; p. 952.
- Kitchell, Joseph G., Haddam, Conn. Picture and making the same. No. 1,144,964; June 29; Gaz. vol. 215; p. 1480.
- Kitchen, Frederick T., Orange, N. J., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Regulating-valve. No. 1,139,533; May 18; Gaz. vol. 214; p. 710.
- Kitchen, Frederick T., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Electric heater. No. 1,147,951; July 27; Gaz. vol. 216; p. 1108.
- Kitchen, Frederick T., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Electrical heater. No. 1,147,952; July 27; Gaz. vol. 216; p. 1109.
- Kitchen, Frederick T., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Temperature-regulator. No. 1,152,027; Aug. 31; Gaz. vol. 217; p. 1511.
- Kitchen, John F., assignor to The Spirella Company, Meadville, Pa. Making garment-stays. No. 1,123,893; Jan. 5; Gaz. vol. 210; p. 237.
- Kitchen, John F., assignor to The Spirella Company, Meadville, Pa. Machine for forming wire stays. (Reissue.) No. 13,904; Apr. 27; Gaz. vol. 213; p. 1408.
- Kitchen, John G. A., and I. H. Storey, Lancaster, England. Vaporizing-carburetor for oil-engines. No. 1,131,934; Mar. 16; Gaz. vol. 212; p. 798.
- Kitchen, Joseph M. W., East Orange, N. J. Utilizing of skim-milk and in milk composition. No. 1,125,692; Jan. 19; Gaz. vol. 210; p. 960.
- Kitchen, Joseph M. W., East Orange, N. J. Sterilizing and securing uniformity of edible quality in butter. No. 1,125,693; Jan. 19; Gaz. vol. 210; p. 960.
- Kitchen, Joseph M. W., East Orange, N. J. Utilization of carbonaceous wastes. No. 1,127,777; Feb. 9; Gaz. vol. 211; p. 431.
- Kitchen, Joseph M. W., East Orange, N. J. Dehydrating milk and milk compositions. No. 1,127,778; Feb. 9; Gaz. vol. 211; p. 431.
- Kitchen, Joseph M. W., East Orange, N. J. Hydraulic power transmission. No. 1,138,667; May 11; Gaz. vol. 214; p. 368.
- Kitchen, Joseph M. W., East Orange, N. J. Bottle-closure. No. 1,141,553; June 1; Gaz. vol. 215; p. 166.
- Kitchen, Samuel M., Skaneateles, N. Y. Sickle. No. 1,162,932; Dec. 7; Gaz. vol. 221; p. 68.
- Kitchen, Samuel M., and N. J. Hoag, Skaneateles, N. Y. Spark-plug. No. 1,147,247; July 20; Gaz. vol. 216; p. 836.
- Kitching, David C., Valley Mills, Tex. Lamp-adjusting mechanism. No. 1,129,207; Feb. 23; Gaz. vol. 211; p. 1014.
- Kitching, David C., Valley Mills, Tex. Lamp-adjusting pedal mechanism. No. 1,154,187; Sept. 21; Gaz. vol. 218; p. 713.
- Kite, James F. (See Hausam, Adam, assignor.)
- Kitowski, Ferdinand J., St. Cloud, Minn. Auxiliary spring for vehicles. No. 1,159,232; Nov. 2; Gaz. vol. 220; p. 286.
- Kitsee, Isidor, Philadelphia, Pa. Filter. No. 1,162,244; Nov. 30; Gaz. vol. 220; p. 1527.
- Kitterman, Charles W. (See Englelove and Kitterman.)
- Kittka, Louis, assignor of one-half to J. Hoffman, Johnstown, Pa. Double-seal envelop. No. 1,126,784; Feb. 2; Gaz. vol. 211; p. 43.
- Kittredge, Rufus W., Chicago, Ill. Photographic-printing apparatus. No. 1,159,955; Nov. 9; Gaz. vol. 220; p. 577.
- Kittrell, John, Durant, Okla. Nutcracker. No. 1,153,433; Sept. 14; Gaz. vol. 218; p. 417.
- Kitzinger, Andrew. (See Brooks, Dodds, and Kitzinger.)
- Kitzrow, John F., Kenosha, Wis. Radiator attachment. No. 1,125,120; Jan. 19; Gaz. vol. 210; p. 753.
- Kivlan, John L., Boston, Mass. Jelly-jar and cover therefor. No. 1,163,547; Dec. 7; Gaz. vol. 221; p. 283.
- Kjaersgaard, August M., Corinth, Denmark, assignor, by mesne assignments, to Hannefords, Limited, London, England. Refrigerator. No. 1,129,991; Mar. 2; Gaz. vol. 212; p. 54.
- Kjekstad, Johannes, et al. (See Kenyon, Otis A., assignor.)
- Kjellgren, John G., Brooklyn, N. Y. Traction-meter. No. 1,148,325; July 27; Gaz. vol. 216; p. 1243.
- Kjellgren, Samuel, assignor of one-half to Rockford Chair & Furniture Company, Rockford, Ill. Extension-table. No. 1,148,907; Aug. 3; Gaz. vol. 217; p. 150.
- Kjellstrom, Charles R., Rockford, Ill. Combined fire-escape and alarm. No. 1,141,716; June 1; Gaz. vol. 215; p. 223.
- Kjellstrom, Mary S., New York, N. Y. Washboard. No. 1,135,816; Apr. 13; Gaz. vol. 213; p. 656.
- Klaas, Frank J. (See Soldati and Klaas.)
- Klabo, Jeusinius C., Duluth, Minn. Bitless bridle. No. 1,148,096; July 27; Gaz. vol. 216; p. 1162.
- Klagsbrunn, Hugo, Mount Vernon, N. Y. Doll-head. No. 1,135,292; Apr. 13; Gaz. vol. 213; p. 472.
- Klahn, Arthur H., San Francisco, Cal. Engine-starter. No. 1,143,406; June 15; Gaz. vol. 215; p. 891.
- Klann, John F., Los Angeles, Cal. Concrete-mixer. No. 1,158,236; Oct. 26; Gaz. vol. 219; p. 1136.
- Klassen, Isaak K., Hague, Saskatchewan, Canada. Cultivator. No. 1,137,331; Apr. 27; Gaz. vol. 213; p. 1274.
- Klatt, Edward, and R. Kalfirst, Philadelphia, Pa. Suspender-lock. No. 1,144,906; June 29; Gaz. vol. 215; p. 1461.
- Klatte, Otto, Minneapolis, Minn. Ironing-board. No. 1,137,332; Apr. 27; Gaz. vol. 213; p. 1275.
- Klauber, Charles, New York, N. Y. Nursing-bottle holder. No. 1,158,059; Oct. 26; Gaz. vol. 219; p. 1074.
- Klausmeyer, David C., Hamilton county, assignor to The Cincinnati-Bickford Tool Company, Oakley, Ohio. Tapping-chuck. No. 1,140,905; May 25; Gaz. vol. 214; p. 1223.
- Klausmeyer, David C., Norwood, assignor to The Cincinnati-Bickford Tool Company, Cincinnati, Ohio. Combined locking and clamping device. No. 1,140,906; May 25; Gaz. vol. 214; p. 1228.
- Kleber, Oscar L., Pittsburgh, Pa. Printing-telegraph. No. 1,138,958; May 11; Gaz. vol. 214; p. 472.
- Kleber, Oscar L., Pittsburgh, Pa. Printing-telegraph mechanism. No. 1,145,490; July 6; Gaz. vol. 216; p. 180.

Alphabetical list of patentees—Continued.

- Kleckner, Fortes M., Drumright, Okla. Emergency air-brake appliance. No. 1,148,097; July 27; Gaz. vol. 216; p. 1162.
- Kleebauer, Charles P., New York, N. Y. Bag. No. 1,155,248; Sept. 28; Gaz. vol. 218; p. 1105.
- Kleger, John, Marshland, assignor of one-half to C. H. Stockwell, Jr., Clatskanie, Oreg. Mailing-tube. No. 1,153,627; Sept. 14; Gaz. vol. 218; p. 486.
- Klein, Carl J. (See Greiff and Schreiber, assignors.)
- Klein, Charles B., Los Angeles, Cal. Tractor. No. 1,154,322; Sept. 21; Gaz. vol. 218; p. 761.
- Klein, Charles G., Elmira, N. Y. Plumber's test apparatus. No. 1,159,847; Nov. 9; Gaz. vol. 220; p. 539.
- Klein, Charles J., Milwaukee, Wis. Electric switch. No. 1,127,779; Feb. 9; Gaz. vol. 211; p. 431.
- Klein, Charles J., Milwaukee, Wis. Separable connector for electrical conductors. No. 1,141,121; June 1; Gaz. vol. 215; p. 11.
- Klein, Charles J., Milwaukee, Wis. Means for securing contacts. No. 1,143,633; June 22; Gaz. vol. 215; p. 993.
- Klein, Charles J., Milwaukee, Wis. Casing for lamp-sockets, pendant switches, and the like. No. 1,151,799; Aug. 31; Gaz. vol. 217; p. 1432.
- Klein, Charles J., Milwaukee, Wis. Lamp-socket. No. 1,151,800; Aug. 31; Gaz. vol. 217; p. 1432.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Cap for lamp-sockets and the like. No. 1,135,193; Apr. 13; Gaz. vol. 213; p. 438.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Insulating means for lamp-sockets and the like. No. 1,135,194; Apr. 13; Gaz. vol. 213; p. 439.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Attachment for electric-switch devices. No. 1,136,239; Apr. 20; Gaz. vol. 213; p. 845.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,136,240; Apr. 20; Gaz. vol. 213; p. 846.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,136,680; Apr. 20; Gaz. vol. 213; p. 1002.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,138,763; May 11; Gaz. vol. 214; p. 403.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,138,874; May 11; Gaz. vol. 214; p. 444.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Separable circuit device. No. 1,139,687; May 18; Gaz. vol. 214; p. 765.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Casing-cap for lamp-sockets. No. 1,141,120; June 1; Gaz. vol. 215; p. 10.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Cap for lamp-shells, switch-receptacles, and analogous devices. No. 1,142,818; June 15; Gaz. vol. 215; p. 682.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Cap for lamp-sockets and the like. No. 1,142,819; June 15; Gaz. vol. 215; p. 683.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch device and receptacle. No. 1,143,206; June 15; Gaz. vol. 215; p. 821.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Push-button. No. 1,143,207; June 15; Gaz. vol. 215; p. 821.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,144,419; June 29; Gaz. vol. 215; p. 1294.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Separable connector for electrical conductors. No. 1,145,424; July 6; Gaz. vol. 216; p. 156.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Casing for lamp-sockets. No. 1,146,885; July 20; Gaz. vol. 216; p. 708.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,149,586; Aug. 10; Gaz. vol. 217; p. 494.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lamp-socket and the like. No. 1,150,434; Aug. 17; Gaz. vol. 217; p. 858.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Outlet-box. No. 1,153,394; Sept. 14; Gaz. vol. 218; p. 403.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,154,030; Sept. 21; Gaz. vol. 218; p. 661.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Binding-post for electrical conductors. No. 1,154,583; Sept. 21; Gaz. vol. 218; p. 851.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,157,310; Oct. 19; Gaz. vol. 219; p. 750.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,158,060; Oct. 26; Gaz. vol. 219; p. 1074.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric attachment device. No. 1,160,619; Nov. 16; Gaz. vol. 220; p. 863.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,160,620; Nov. 16; Gaz. vol. 220; p. 863.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,162,076; Nov. 30; Gaz. vol. 220; p. 1468.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,162,864; Dec. 7; Gaz. vol. 221; p. 46.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,162,865; Dec. 7; Gaz. vol. 221; p. 46.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,162,866; Dec. 7; Gaz. vol. 221; p. 47.
- Klein, Emanuel, New York, N. Y. Manufacturing vegetable oils. No. 1,161,481; Nov. 23; Gaz. vol. 220; p. 1215.
- Klein, Fred J., New York, N. Y. Paper perforating and filing device. No. 1,157,228; Oct. 19; Gaz. vol. 219; p. 721.
- Klein, Fred J., New York, N. Y. Paper filing and binding device. No. 1,157,229; Oct. 19; Gaz. vol. 219; p. 721.
- Klein, George. (See Stedelin and Klein.)
- Klein, Harry H., New York, N. Y. Wire-distender. No. 1,128,688; Feb. 16; Gaz. vol. 211; p. 796.
- Klein, Henry, Portland, Oreg. Extensible curtain-roller. No. 1,132,100; Mar. 16; Gaz. vol. 212; p. 857.
- Klein, Henry, Cleveland, Ohio. Waistband adjustment. No. 1,149,587; Aug. 10; Gaz. vol. 217; p. 494.
- Klein, Henry, New York, N. Y., and L. J. Mead, Darien, Conn.; said Mead assignor to said Klein. Post for office-railings and the like. No. 1,135,817; Apr. 13; Gaz. vol. 213; p. 656.
- Klein, John, Tampa, Fla. Seal. No. 1,127,020; Feb. 2; Gaz. vol. 211; p. 126.
- Klein, John M., and P. J. Spies, Chicago, Ill.; said Spies assignor to said Klein. Wire clamp or stretcher. No. 1,146,801; July 20; Gaz. vol. 216; p. 679.
- Klein, Julius, Cambridge, Mass. Apparatus for mixing mash. No. 1,156,409; Oct. 12; Gaz. vol. 219; p. 403.
- Klein, Marcell, Berlin, Germany. Pressure control for submarine chambers. No. 1,131,712; Mar. 16; Gaz. vol. 212; p. 717.
- Klein, Rudolph, and T. Brueck, Rochester, N. Y. Iris-diaphragm. No. 1,153,319; Sept. 14; Gaz. vol. 218; p. 374.
- Klein, Simon, New York, N. Y. Safety-razor-sharpening device. No. 1,160,178; Nov. 16; Gaz. vol. 220; p. 708.
- Klein, Stanislaw, College Point, N. Y. Implement for removing shoe-buttons. No. 1,133,805; Mar. 30; Gaz. vol. 212; p. 1561.
- Klein, Thomas. (See Roussel, Germain, assignor.)
- Klein, William M., New York, N. Y. Sanitary package for shavers' use. No. 1,150,207; Aug. 17; Gaz. vol. 217; p. 781.
- Kleinbrahm, Hermann, Mülheim-on-the-Ruhr, Germany. Two-cylinder engine. No. 1,143,973; June 22; Gaz. vol. 215; p. 1109.
- Kleinbrod, Louis, (named Klein,) Strassburg, Germany. Treating carob. No. 1,150,607; Aug. 17; Gaz. vol. 217; p. 920.
- Kleine, Frank M., Duluth, Minn. Vacuum massage-cup. No. 1,128,459; Feb. 16; Gaz. vol. 211; p. 718.
- Kleinertz, Julius, Braunsfeld, near Cologne, Germany. Chuck. No. 1,156,295; Oct. 12; Gaz. vol. 219; p. 360.
- Kleinfeldt, Arthur. (See Post and Kleinfeldt.)
- Kleinman, Nathaniel W., Brooklyn, N. Y. Automatic direction-indicator. No. 1,136,814; Apr. 20; Gaz. vol. 213; p. 1050.
- Kleinow, Walter, Breslau, Germany. Flexible coupling. No. 1,157,553; Oct. 19; Gaz. vol. 219; p. 834.
- Kleinschmidt, Anthony F., Indianapolis, Ind. Casement-window holder. No. 1,144,212; June 22; Gaz. vol. 215; p. 1196.
- Kleinschmidt, Daniel H., Buffalo, N. Y. Exercising or gaming apparatus. No. 1,152,101; Mar. 16; Gaz. vol. 212; p. 857.
- Kleinschmidt, Edward E., New York, N. Y., assignor to Hall Switch & Signal Company. Selective signaling system. No. 1,133,291; Mar. 30; Gaz. vol. 212; p. 1377.
- Kleinschmidt, Edward E., New York, N. Y., assignor, by mesne assignments, to Hall Switch & Signal Company. Telephone system. No. 1,137,865; May 4; Gaz. vol. 214; p. 49.
- Kleinschmidt, Edward E., New York, N. Y., assignor, by mesne assignments, to Hall Switch & Signal Company. Selective signaling system. No. 1,140,378; May 25; Gaz. vol. 214; p. 1042.
- Kleinschmidt, Edward E., New York, N. Y., assignor to Hall Switch and Signal Company. Selective switch. No. 1,140,749; May 25; Gaz. vol. 214; p. 1171.
- Kleinsteuber, Oscar D., assignor to A. L. Doelger, Milwaukee, Wis. Municipal-service post. No. 1,165,420; Dec. 28; Gaz. vol. 221; p. 1063.
- Kleinsteuber, William J., Milwaukee, Wis. Clamping device. No. 1,155,662; Oct. 5; Gaz. vol. 219; p. 115.
- Kleiser, Robert H., De Witt, Ark. Grain-scouring machine. No. 1,131,526; Mar. 9; Gaz. vol. 212; p. 618.
- Kleman, Henry, assignor of one-half to E. Martin, Pittsburgh, Pa. Smoke-consumer. No. 1,139,194; May 11; Gaz. vol. 214; p. 557.

- Klemm, Edwin O., Saginaw, Mich. Automatic stop device for sound-reproducing machines. No. 1,132,336; Mar. 16; Gaz. vol. 212; p. 952.
- Klemm, Edwin O., Saginaw, Mich., and E. W. Schrelber, Yuma, Ariz. Combination study-chair. No. 1,161,691; Nov. 23; Gaz. vol. 220; p. 1287.
- Klemmer, Conrad, Bisbee, Ariz. Portable magneto-electric machine. No. 1,131,063; Mar. 9; Gaz. vol. 212; p. 458.
- Klemp, Theodore, Muskegon, Mich. Automobile-signal. No. 1,155,934; Oct. 5; Gaz. vol. 219; p. 211.
- Klent, Arthur W., New York, N. Y. Liquid-strainer. No. 1,156,785; Oct. 12; Gaz. vol. 219; p. 533.
- Klena, Robert, Adrian, Pa. Ship's table. No. 1,150,769; Aug. 17; Gaz. vol. 217; p. 975.
- Klenck, John H., Warren, Pa. Camera-support. No. 1,153,320; Sept. 14; Gaz. vol. 218; p. 375.
- Klenck, John H., Warren, Pa. Camera-support. No. 1,156,296; Oct. 12; Gaz. vol. 219; p. 360.
- Klenort, Harry, New York, N. Y. Combination feed and water pail. No. 1,145,150; July 6; Gaz. vol. 216; p. 62.
- Klenk, Fred, Mount Vernon, N. Y. Insulator for high-voltage electric-cable splices. No. 1,146,717; July 13; Gaz. vol. 216; p. 629.
- Klenk, Gottlieb, assignor to The Defiance Pressed Steel Co., Defiance, Ohio. Metal box. No. 1,131,935; Mar. 16; Gaz. vol. 212; p. 799.
- Klenk, Gottlieb, Defiance, Ohio, assignor, by mesne assignments, to The Defiance Pressed Steel Company. Metal box. No. 1,139,534; May 18; Gaz. vol. 214; p. 710.
- Klenk, Gottlieb, Defiance, Ohio, assignor to The Defiance Pressed Steel Company. Bottle-crate. No. 1,139,535; May 18; Gaz. vol. 214; p. 711.
- Klenk, Gottlieb, assignor to The Defiance Pressed Steel Company, Defiance, Ohio. Sheet-metal box. No. 1,139,536; May 18; Gaz. vol. 214; p. 711.
- Klenk, Gottlieb, Defiance, Ohio, assignor to The Defiance Pressed Steel Company. Sheet-metal box. No. 1,139,537; May 18; Gaz. vol. 214; p. 712.
- Klenk, Gottlieb, assignor to The Defiance Pressed Steel Company, Defiance, Ohio. Storage and shipping box. No. 1,161,692; Nov. 23; Gaz. vol. 220; p. 1288.
- Klenner, William, Baltimore, Md. Stand for gas-irons, &c. No. 1,158,237; Oct. 26; Gaz. vol. 219; p. 1136.
- Klensk, Frank, Scranton, Pa. Glass-cutter. No. 1,141,192; June 1; Gaz. vol. 215; p. 36.
- Klenz, Albert. (See Rose, Marcus, and Klenz.)
- Klepinger, Albert M., assignor to Dayton Novelty Company, Dayton, Ohio. Collapsible bracket. No. 1,159,956; Nov. 9; Gaz. vol. 220; p. 578.
- Klepinger, John H., Great Falls, Mont., and F. R. Corwin, Douglas, Ariz. Furnace-hearth. No. 1,140,042; May 18; Gaz. vol. 214; p. 891.
- Klepinger, John H., M. W. Krejci, and C. R. Kuzell, Great Falls, Mont. Smelting ores. No. 1,160,621; Nov. 16; Gaz. vol. 220; p. 864.
- Klepinger, John H., M. W. Krejci, and C. R. Kuzell, Great Falls, Mont. Smelting ores. No. 1,164,653; Dec. 21; Gaz. vol. 221; p. 756.
- Klett, Robert. (See Winter and Klett.)
- Klett, Robert, New York, N. Y., assignor to Kny-Scheerer Company, Incubator. No. 1,127,021; Feb. 2; Gaz. vol. 211; p. 127.
- Klette, Curt, Dusseldorf, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Gun, with long recoil. No. 1,151,476; Aug. 24; Gaz. vol. 217; p. 1272.
- Kletke, Warner, Escanaba, Mich. Nut-lock. No. 1,157,230; Oct. 19; Gaz. vol. 219; p. 721.
- Klilber, William C., assignor of one-fourth to O. L. Graham and one-fourth to C. E. Turner, Federalburg, Md. Mixing device. No. 1,128,153; Feb. 9; Gaz. vol. 211; p. 563.
- Kliebenstein, George J., and D. F. Arnold, Marshalltown, Iowa; said Arnold assignor to said Kliebenstein. Sign. No. 1,123,313; Jan. 5; Gaz. vol. 210; p. 39.
- Kliegl, Anton T., New York, N. Y. Stage-footlights. No. 1,141,122; June 1; Gaz. vol. 215; p. 11.
- Kliegl, John H., New York, N. Y. Selective controller for vehicle call systems. No. 1,160,416; Nov. 16; Gaz. vol. 220; p. 789.
- Klewer, Cornelius W., Midland, Cal. Ironing-board. No. 1,154,031; Sept. 21; Gaz. vol. 218; p. 661.
- Klimes, Albert, assignor of two-fifths to J. Kolda, Chicago, Ill. Trolley protective system. No. 1,130,612; Mar. 2; Gaz. vol. 212; p. 270.
- Klin, John R. (See Rike and Klin.)
- Klinck, Oswald, Mülheim-on-the-Ruhr, Germany, assignor, by mesne assignments, to Locomotive Superheater Company, New York, N. Y. Welding pipe ends. No. 1,162,698; Nov. 30; Gaz. vol. 220; p. 1678.
- Klindt, George J., Burlington, Iowa. Closet-flange. No. 1,149,269; Aug. 10; Gaz. vol. 217; p. 381.
- Kline, Bert L. (See Alden, John S., assignor.)
- Kline, Bowdewine C., New York, N. Y. Awning. No. 1,127,639; Feb. 9; Gaz. vol. 211; p. 379.
- Kline, Clarence M., assignor to Smith, Kline & French Co., Philadelphia, Pa. Hermetically-sealed bottle. No. 1,138,764; May 11; Gaz. vol. 214; p. 404.
- Kline, Everett C. (See Bollwinkel and Kline.)
- Kline, Everett C., assignor to The Victor Safe & Lock Company, Cincinnati, Ohio. Metallic container. No. 1,148,238; July 27; Gaz. vol. 216; p. 1210.
- Kline, Frank J. (See Kline, William L., assignor.)
- Kline, Harvey Z., assignor of one-half to J. W. Barkalow, Indianapolis, Ind. Process and apparatus for making cement or concrete building-stone. No. 1,164,099; Dec. 14; Gaz. vol. 221; p. 523.
- Kline, Max. (See Rubin, George, assignor.)
- Kline, Michael B., Los Angeles, Cal. Settling-drum. No. 1,128,253; Feb. 9; Gaz. vol. 211; p. 597.
- Kline, Richard E. (See Bardeen, Hugh A., assignor.)
- Kline, Richard E., assignor to R. H. Herron Company, Los Angeles, Cal. Pump. No. 1,147,248; July 20; Gaz. vol. 216; p. 836.
- Kline, Seth Q., Jr., Washington, D. C. Device for indicating liquid-levels at a distance. No. 1,162,699; Nov. 30; Gaz. vol. 220; p. 1678.
- Kline, William L., assignor of one-half to F. J. Kline, Rutherford, N. J. Fan attachment for rocking-chairs. No. 1,139,299; May 11; Gaz. vol. 214; p. 591.
- Kling, Louis A., Elizabeth, N. J., assignor to The J. G. Brill Company, Philadelphia, Pa. Cong. No. 1,148,326; July 27; Gaz. vol. 216; p. 1244.
- Kling, Louis A., East Cleveland, Ohio, assignor to The J. G. Brill Company, Philadelphia, Pa. Clutch mechanism. No. 1,163,443; Dec. 7; Gaz. vol. 221; p. 238.
- Kling, Louis A., Elizabeth, N. J., and G. B. Kohler, assignors to The J. G. Brill Company, Philadelphia, Pa. Cong. No. 1,148,327; July 27; Gaz. vol. 216; p. 1244.
- Kling, Peter M. (See Stucki, Arnold, assignor.)
- Kling, Peter M., assignor to Laconia Car Company, Laconia, N. H. Underframe for railway cars. No. 1,128,331; Feb. 16; Gaz. vol. 211; p. 674.
- Klingaman, Charles C., Winterset, Iowa. Mail-box. No. 1,150,039; Aug. 17; Gaz. vol. 217; p. 720.
- Klingbeil, Carl, Biebrich, Germany. Manufacture of potassium and sodium salts from kelp-ashes. No. 1,162,617; Nov. 30; Gaz. vol. 220; p. 1652.
- Klingborg, Carl J., Seattle, Wash. Cutter-head. No. 1,137,216; Apr. 27; Gaz. vol. 213; p. 1232.
- Klingelsmith Electric Truck Company. (See Klingelsmith, Joseph M., assignor.)
- Klingelsmith, Joseph M., assignor to Klingelsmith Electric Truck Company, Chicago, Ill. Electrically-propelled vehicle. No. 1,165,781; Dec. 28; Gaz. vol. 221; p. 1191.
- Klingemann, Felix, Mainkur, near Frankfurt-on-the-Main, Germany, assignor to Cassella Color Company. Claret-red trisazo dyestuff. No. 1,150,825; Aug. 17; Gaz. vol. 217; p. 995.
- Klingefeld, Harry M., and A. H. Inbusch, Milwaukee, Wis. Machine for breaking in shoes. No. 1,140,599; May 25; Gaz. vol. 214; p. 1121.
- Klingensmith, Frank, St. Paul, Minn. Apparatus for use in washing vehicles. No. 1,148,690; Aug. 3; Gaz. vol. 217; p. 75.
- Klingensmith, Harvey W., Reynoldsville, Pa. Wrench. No. 1,147,514; July 20; Gaz. vol. 216; p. 929.
- Klingner, Adolph, New York, assignor to A. R. Mosler & Co., Mount Vernon, N. Y. Terminal clip for electrical conductors. No. 1,158,930; Nov. 2; Gaz. vol. 220; p. 183.
- Klink, Charles E., C. V. Wilgus, and F. H. Bickford, Kingston, assignors to The Adder Machine Company, Wilkes-Barre, Pa. Item-indicator. No. 1,136,016; Apr. 20; Gaz. vol. 213; p. 768.
- Klink, Frederick R., assignor of one-third to J. A. Bernower and one-third to V. L. Ney, Canton, Ohio. Safety-shutter for motion-picture machines. No. 1,142,103; June 8; Gaz. vol. 215; p. 395.
- Klink, William H., and J. C. Green, Towanda, Pa. Nut-lock. No. 1,155,935; Oct. 5; Gaz. vol. 219; p. 212.
- Klinkerfues, Henry W. (See Colledge, Alfred A., assignor.)
- Klinzing, August F., St. Cloud, Wis. Stanchion. No. 1,128,332; Feb. 16; Gaz. vol. 211; p. 675.
- Klipfel Manufacturing Co. (See Swan, John H., assignor.)
- Klix, Ulrich J., assignor to J. Wurz, Utica, N. Y. Table. No. 1,140,379; May 25; Gaz. vol. 214; p. 1042.
- Klock, Arden S., assignor of one-half to E. G. Hilliard, Duluth, Minn. Chain-hook. No. 1,130,613; Mar. 2; Gaz. vol. 212; p. 271.
- Klocke, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing-press. No. 1,130,176; Mar. 2; Gaz. vol. 212; p. 116.
- Klocke, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing-press. No. 1,132,018; Mar. 16; Gaz. vol. 212; p. 829.
- Klocker, Augustus, assignor to Thomaston Knife Company, Thomaston, Conn. Pocket-knife. No. 1,134,539; Apr. 6; Gaz. vol. 213; p. 166.
- Kloeb, Joseph A., Piqua, Ohio. Gas burner and mixer. No. 1,132,722; Mar. 23; Gaz. vol. 212; p. 1134.
- Klohs, Bartholomew, Canton, Ohio. Key-changeable lock. No. 1,125,343; Jan. 19; Gaz. vol. 210; p. 835.
- Klohs, Bartholomew F., Canton, Ohio. Lock mechanism for safes. No. 1,145,371; July 6; Gaz. vol. 216; p. 137.
- Klohs, Sam F., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline structure. No. 1,136,964; Apr. 27; Gaz. vol. 213; p. 1139.

Alphabetical list of patentees—Continued.

- Klohs, Samuel F., Chicago, Ill. Car-coupling. No. 1,142,104; June 8; Gaz. vol. 215; p. 395.
- Kloneck, August J., New York, N. Y. Aeroplane. No. 1,145,319; July 6; Gaz. vol. 216; p. 119.
- Klopp, Michael, Cincinnati, Ohio. Wagon-gear. No. 1,123,894; Jan. 5; Gaz. vol. 210; p. 237.
- Klopp, Michael, Cincinnati, Ohio. Wagon-bed. No. 1,149,069; Aug. 3; Gaz. vol. 217; p. 206.
- Klopping, Adolph C., assignor of one-half to The Toledo Parlor Furniture Company, Toledo, Ohio. Bed-davenport. No. 1,143,974; June 22; Gaz. vol. 215; p. 1109.
- Klorer, Charles P., East Conemaugh, assignor of two-thirds to J. E. Zang, Johnstown, Pa. Flexible clamp-joint. No. 1,137,333; Apr. 27; Gaz. vol. 213; p. 1275.
- Klos, Theodore, Wausau, Wis. Automatic door. No. 1,163,760; Dec. 14; Gaz. vol. 221; p. 405.
- Klose, Alois, Portland, Ore. Brick-kiln. No. 1,160,957; Nov. 16; Gaz. vol. 220; p. 994.
- Klose, Karl W., Seneca, Kans. Brick-kiln construction. No. 1,138,386; May 4; Gaz. vol. 214; p. 235.
- Klose, Karl W., Seneca, Kans. Brick-kiln. No. 1,138,387; May 4; Gaz. vol. 214; p. 235.
- Klotz, Charles H., Washington, D. C. Folding gate for gangways. No. 1,150,684; Aug. 17; Gaz. vol. 217; p. 947.
- Klotz, William, Worden, Ill. Nut-lock. No. 1,160,905; Nov. 16; Gaz. vol. 220; p. 965.
- Klug, George M., Ionia, Mich. Foundry-cupola. No. 1,135,025; Apr. 13; Gaz. vol. 213; p. 381.
- Klug, Hugh, Assiniboia, Saskatchewan, Canada. Table. No. 1,126,785; Feb. 2; Gaz. vol. 211; p. 43.
- Klug, William, Plaza, N. D. Detachable share. No. 1,135,818; Apr. 13; Gaz. vol. 213; p. 657.
- Kluge, Kurt, New York, N. Y. Baking-machine. No. 1,152,184; Aug. 31; Gaz. vol. 217; p. 1564.
- Klugh, Paul B., assignor to The Cable Company, Chicago, Ill. Musical-instrument case. No. 1,161,318; Nov. 23; Gaz. vol. 220; p. 1157.
- Klugh, Paul B., assignor to The Cable Company, Chicago, Ill. Pedal-door or the like. No. 1,164,100; Dec. 14; Gaz. vol. 221; p. 523.
- Klumb, Paul, assignor to Globe Foundry & Machine Company, Sheboygan, Wis. Self-feeder for ensilage and silo cutters. No. 1,129,992; Mar. 2; Gaz. vol. 212; p. 54.
- Klump, August, Munich, Germany. Scaffold-support. No. 1,141,554; June 1; Gaz. vol. 215; p. 167.
- Klump, Gottlob, assignor to I. Masse, New York, N. Y. Marble game. No. 1,163,416; Dec. 7; Gaz. vol. 221; p. 238.
- Knaak, Frank J. C. F., assignor of one-half to J. H. MacDonald, New York, N. Y. Internal-combustion engine. No. 1,138,575; May 4; Gaz. vol. 214; p. 297.
- Knaak, Robert C., Emden, Ill. Threshing-machine concave. No. 1,127,640; Feb. 9; Gaz. vol. 211; p. 379.
- Knabbe, D., et al. (See Gardiner, Anwyl O., assignor.)
- Knabbe, Diedrich, et al. (See Gardiner, Anwyl O., assignor.)
- Knabe, John G., Watertown, S. D. Suction supporting device for mirrors. No. 1,147,102; July 20; Gaz. vol. 216; p. 784.
- Knappen, Achille, Brussels, Belgium. System of ventilation. No. 1,151,692; Aug. 31; Gaz. vol. 217; p. 1394.
- Knapp, Charles S., assignor to J. W. Weinland, Chicago, Ill. Brake-head. No. 1,124,915; Jan. 12; Gaz. vol. 210; p. 646.
- Knapp, Fred S., Omaha, Nebr. Partition-holder for boxes. No. 1,154,778; Sept. 28; Gaz. vol. 218; p. 946.
- Knapp, Frederick H., assignor to The Fred H. Knapp Company, Westminster, Md. Treating labels and applying the same to cans. No. 1,135,293; Apr. 13; Gaz. vol. 213; p. 472.
- Knapp, Frederick H., assignor to The Fred H. Knapp Company, Westminster, Md. Machine for treating labels and applying the same to cans. No. 1,135,295; Apr. 13; Gaz. vol. 213; p. 473.
- Knapp, Frederick H., and W. H. Leister, assignors to Fred H. Knapp Company, Westminster, Md. Can-wrapping machine. No. 1,135,294; Apr. 13; Gaz. vol. 213; p. 472.
- Knapp, George D., Fremont, Ohio. Cutter-bar for mowers, reapers, and corn-binders. No. 1,152,322; Aug. 31; Gaz. vol. 217; p. 1612.
- Knapp, George O. (See Beach, Clarence E., assignor.)
- Knapp, George P., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Electric socket and shade-holder. No. 1,138,297; May 4; Gaz. vol. 214; p. 201.
- Knapp, George S., La Grange, Ill. Metal base-board. No. 1,143,283; June 15; Gaz. vol. 215; p. 847.
- Knapp, George S., La Grange, Ill. Corner-head clip. No. 1,145,198; July 6; Gaz. vol. 216; p. 78.
- Knapp, George W., Baltimore, Md., assignor to National Enameling and Stamping Company, New York, N. Y. Wire ball-ear. No. 1,152,382; Aug. 31; Gaz. vol. 217; p. 1634.
- Knapp, Harold O., Crockett, Cal. Automatic valve. No. 1,134,621; Apr. 6; Gaz. vol. 213; p. 196.
- Knapp, Henry F., Lebanon, N. H. Skee or runner. No. 1,146,504; July 13; Gaz. vol. 216; p. 558.
- Knapp Husker Company. (See Adams, Charles E., assignor.)
- Knapp, Isaac B., Cold Spring, N. Y. Fish-catcher. No. 1,164,528; Dec. 14; Gaz. vol. 221; p. 673.
- Knapp, Merritt A., Rosalia, Wash. Balanced slide-valve. No. 1,147,872; July 27; Gaz. vol. 216; p. 1080.
- Knapp, Moses A., Oakland, Cal. Lock-drill. No. 1,138,612; May 4; Gaz. vol. 214; p. 310.
- Knapp, O. A. (See Becker, August C., assignor.)
- Knapp, Roland W., Minneapolis, Minn. Starting device for gas-engines. No. 1,142,889; June 15; Gaz. vol. 215; p. 708.
- Knapp, Roland W., Minneapolis, Minn. Starting device for gas-engines. No. 1,142,890; June 15; Gaz. vol. 215; p. 708.
- Knapp, Sewell A., San Francisco, Cal. Interlocking removable barrel-head. No. 1,151,525; Aug. 24; Gaz. vol. 217; p. 1290.
- Knapp, Sewell A., assignor to F. A. Brand, San Francisco, Cal. Knockdown barrel. No. 1,165,335; Dec. 21; Gaz. vol. 221; p. 993.
- Knapp, William B., Paterson, N. J. Screen, curtain, and the like. No. 1,138,668; May 11; Gaz. vol. 214; p. 369.
- Knappstein, Max, Bremen, Germany. Manufacturing non-curling paper adhesive on one side and product. No. 1,148,783; Aug. 3; Gaz. vol. 217; p. 108.
- Knauber, Alexander M., assignor to M. Knauber, Oak Park, Ill. Adjustable fixture stud and support. No. 1,135,699; Apr. 13; Gaz. vol. 213; p. 616.
- Knauber, Margaret. (See Knauber, Alexander M., assignor.)
- Knauff, George C., Chicago, Ill. Focusing-socket. No. 1,126,786; Feb. 2; Gaz. vol. 211; p. 43.
- Knauff, George C., Chicago, Ill. Switching socket or connector. No. 1,136,681; Apr. 20; Gaz. vol. 213; p. 1002.
- Knauff, George C., Chicago, Ill. Forming projections. No. 1,142,820; June 15; Gaz. vol. 215; p. 683.
- Knauff, George C., Chicago, Ill. Joining materials. No. 1,165,680; Dec. 28; Gaz. vol. 221; p. 1155.
- Knauss, Albert T. (See Blansett, John E., assignor.)
- Knauss, Edward, Melrose, Mass., and F. H. Petitmaire, Philadelphia, Pa. Combined foot-rest and heater for motor-vehicles. No. 1,134,870; Apr. 6; Gaz. vol. 213; p. 282.
- Kneass, Strickland L., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Jet apparatus. No. 1,159,957; Nov. 9; Gaz. vol. 220; p. 578.
- Knecht, Benno. (See Reiss and Knecht.)
- Knecht, Harry F., West Salisbury, Pa. Support for vehicle-engines. No. 1,145,070; July 6; Gaz. vol. 216; p. 35.
- Knecht, Johann J., Chemnitz, Germany. Frame-actuating mechanism for embroidering-machines. No. 1,136,815; Apr. 20; Gaz. vol. 213; p. 1051.
- Knecht, Johann J., Schönnau, near Chemnitz, Germany. Machine for punching jacquard-cards for automatic embroidery-machines. No. 1,151,191; Aug. 24; Gaz. vol. 217; p. 1178.
- Knecht, Johann J., Schönnau, assignor to Maschinenfabrik Kappel A. G., Kappel, near Chemnitz, Germany. Embroidering-machine. No. 1,160,417; Nov. 16; Gaz. vol. 220; p. 790.
- Knee, Orion P., Lincoln, Nebr. Combination automobile engine starter. No. 1,149,838; Aug. 10; Gaz. vol. 217; p. 587.
- Kneidler, John D., assignor of one-half to B. Couch, Sioux City, Iowa. Rotary engine. No. 1,142,969; June 15; Gaz. vol. 215; p. 736.
- Kneeland, Lester L. (See Moriarty and Kneeland.)
- Kneezell, Edward, El Paso, Tex. Engine-starting device. No. 1,135,819; Apr. 13; Gaz. vol. 213; p. 658.
- Knepper, J. P., et al. (See Taylor, John E., assignor.)
- Knepper, Charles M., New York, N. Y. Feed mechanism for printing-presses. No. 1,142,786; June 8; Gaz. vol. 215; p. 633.
- Knerr, Herbert S., Dayton, Ohio. Lamp-holder. No. 1,123,757; Jan. 5; Gaz. vol. 210; p. 192.
- Kneuper, Alexander D., Cranford, assignor to A. D. Kneuper Specialty Company, Newark, N. J. Smoking-pipe. No. 1,156,150; Oct. 12; Gaz. vol. 219; p. 313.
- Kneuper, George M., New York, N. Y. Filter-cell. No. 1,148,237; July 27; Gaz. vol. 216; p. 1210.
- Knezek, Louis, Woodhaven, N. Y. Safety-valve for gas-stoves. No. 1,164,289; Dec. 14; Gaz. vol. 221; p. 588.
- Knickerbocker, Burton D., Chicago, Ill. Fountain-brush. No. 1,159,503; Nov. 9; Gaz. vol. 220; p. 413.
- Knickmeyer, Nannie V., Millville, Fla. Mattress. No. 1,140,043; May 18; Gaz. vol. 214; p. 891.
- Knickrehm, William H., Somoanuk, Ill. Composite rail-way-tie. No. 1,154,779; Sept. 28; Gaz. vol. 218; p. 946.
- Knief, Henry G., Napa, Cal. Apparatus for applying oil to road-surfaces. No. 1,138,489; May 4; Gaz. vol. 214; p. 270.
- Kniesche, Otto. (See Edwards, Robert C., assignor.)
- Kniffen, Frederick, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Forming pyroxilin bodies. No. 1,135,026; Apr. 13; Gaz. vol. 213; p. 382.
- Kniffin, Lloyd M. (See Anderson and Kniffin.)
- Kuiffner, Bruno, Winchester, and W. A. Oppen, Stoneham, Mass. Preparing reslu size for paper manufacture. No. 1,160,906; Nov. 16; Gaz. vol. 220; p. 965.
- Knight, Albert C., New York, N. Y. Printing-block. No. 1,123,552; Jan. 5; Gaz. vol. 210; p. 121.

- Knight, Alfred H., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,131,936; Mar. 16; Gaz. vol. 212; p. 799.
- Knight, Alfred W., London, England. Horseshoe-nail. No. 1,131,248; Mar. 9; Gaz. vol. 212; p. 522.
- Knight American Patents Company. (See Knight, Charles Y., assignor.)
- Knight, Amos L. (See Indahl and Knight.)
- Knight, Arthur S., Newark, N. J., assignor to Westinghouse Lamp Company. Support for incandescent-lamp filaments. No. 1,125,121; Jan. 19; Gaz. vol. 210; p. 753.
- Knight, Arthur S., Newark, N. J., assignor to Westinghouse Lamp Company. Incandescent lamp. No. 1,125,694; Jan. 19; Gaz. vol. 210; p. 960.
- Knight, Charles Y., Chicago, Ill. Connecting means for internal-combustion motors. No. 1,155,071; Sept. 28; Gaz. vol. 218; p. 1046.
- Knight, Charles Y., Chicago, Ill., assignor, by mesne assignments, to Knight American Patents Company. Internal-combustion engine. No. 1,129,104; Feb. 23; Gaz. vol. 211; p. 979.
- Knight, Charles Y., Chicago, Ill., assignor, by mesne assignments, to Knight American Patents Company. Internal-combustion engine. No. 1,136,143; Apr. 20; Gaz. vol. 213; p. 811.
- Knight, Earle R., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Retaining ring for dynamo-electric machines. No. 1,131,249; Mar. 9; Gaz. vol. 212; p. 522.
- Knight, Earle R., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Assembling cores of electrical apparatus. No. 1,156,297; Oct. 12; Gaz. vol. 219; p. 361.
- Knight, Frank H., assignor to M. J. Knight, Lancaster, Pa. Baby-walker. No. 1,141,123; June 1; Gaz. vol. 215; p. 11.
- Knight, Frank H., assignor of one-half to W. B. Rush, Lancaster, Pa. Auxiliary infant's seat. No. 1,147,328; July 20; Gaz. vol. 216; p. 861.
- Knight, Frank T., Macon, Ga. Train-stopping apparatus. No. 1,145,320; July 6; Gaz. vol. 216; p. 120.
- Knight, Henry, Tunbridge Wells, England. Device for making cigarettes. No. 1,133,972; Mar. 30; Gaz. vol. 212; p. 1616.
- Knight, Henry C., assignor of one-half to W. B. Baker, Gunter, Tex. Pedal-operating device for pianos. No. 1,165,681; Dec. 28; Gaz. vol. 221; p. 1156.
- Knight, Isaac J., and J. M. Smith, Plainview, Ark. Railroad joint. No. 1,157,554; Oct. 19; Gaz. vol. 219; p. 834.
- Knight, James T. A., Langport, England. Blinder for loose-leaf books. No. 1,128,689; Feb. 16; Gaz. vol. 211; p. 796.
- Knight, John, Newark, N. J. Machine for dressing millstones. No. 1,146,580; July 13; Gaz. vol. 216; p. 584.
- Knight, Julian G., New York, N. Y., assignor to J. Gordon Knight Electric Company, Inc. Fixture-support. No. 1,126,486; Jan. 26; Gaz. vol. 210; p. 1275.
- Knight, M. J. (See Knight, Frank H., assignor.)
- Knight, Margaret E., South Framingham, Mass., assignor to K-D Motor Company. Internal-combustion engine. No. 1,132,858; Mar. 23; Gaz. vol. 212; p. 1186.
- Knight, Minnie G., executrix. (See Knight, Ora W.)
- Knight, Ora W., deceased; M. G. Knight, executrix, Portland, Me. Treating sulfite waste liquor and product thereof. No. 1,143,714; June 22; Gaz. vol. 215; p. 1020.
- Knight, Richard D., Providence, R. I. Connector for flexible key-rings. No. 1,127,022; Feb. 2; Gaz. vol. 211; p. 127.
- Knight, Thomas, and J. G. Bennetts, Ahmeek, Mich. Bearing-box. No. 1,143,208; June 15; Gaz. vol. 215; p. 821.
- Knight, Walter H., Providence, R. I. Regenerative system for stopping and starting cars and trains. No. 1,134,682; Apr. 6; Gaz. vol. 213; p. 218.
- Knipe, William A., Ward Hill, Mass. Making welt-inner-soles. No. 1,144,420; June 29; Gaz. vol. 215; p. 1295.
- Knight, William A., and L. Bauer, Newark, N. J. Hat-sweat-sewing machine. No. 1,138,669; May 11; Gaz. vol. 214; p. 369.
- Knight, William D., Santa Monica, Cal. Hot-water-circulating system. No. 1,153,233; Sept. 14; Gaz. vol. 218; p. 344.
- Knight, William W., Birmingham, Ala., assignor of one-fourth to P. H. Williams, Memphis, Tenn. Lubricator. No. 1,145,689; July 6; Gaz. vol. 216; p. 249.
- Knight, Willson H., *et al.* (See Smith, Rudyard I., assignor.)
- Knipe, Oliver C., Palo Alto, Cal. Ball-bearing. No. 1,134,463; Apr. 6; Gaz. vol. 213; p. 133.
- Knipe, Oliver C., Palo Alto, Cal. Antifriction hand-support. No. 1,154,188; Sept. 21; Gaz. vol. 218; p. 714.
- Knipe, William A., Haverhill, Mass. Box-toe piece for shoes. No. 1,127,641; Feb. 9; Gaz. vol. 211; p. 380.
- Knippenberg, Wilhelm, Dusseldorf, Germany. Hair-curler. No. 1,161,053; Nov. 23; Gaz. vol. 220; p. 1062.
- Knipple, Charles W., assignor of one-half to A. B. Ferguson, Parsons, W. Va. Wrench. No. 1,144,907; June 29; Gaz. vol. 215; p. 1461.
- Knips, Christoph. (See Erlwein and Knips.)
- Knittle, Joseph, Minneapolis, Minn. Level. No. 1,155,824; Oct. 5; Gaz. vol. 219; p. 175.
- Knoblauch, Charles E., New York, N. Y. Poncho. No. 1,138,229; May 4; Gaz. vol. 214; p. 177.
- Knobloch, Karola, assignor, by mesne assignments, to The Storage Battery Appliance Company, Baltimore, Md. Electric storage battery. No. 1,129,690; Feb. 23; Gaz. vol. 211; p. 1181.
- Knobloch, William H., assignor to Northway Motor & Manufacturing Company, Detroit, Mich. Advertising novelty. No. 1,152,028; Aug. 31; Gaz. vol. 217; p. 1511.
- Knoblock, James W., West Orange, N. J. Smoker's article. No. 1,152,738; Sept. 7; Gaz. vol. 218; p. 132.
- Knoblock, Otto M., South Bend, Ind. Electric switch. No. 1,123,758; Jan. 5; Gaz. vol. 210; p. 192.
- Knoch, Oscar, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Storing device for guns with pivot-mount. No. 1,127,451; Feb. 9; Gaz. vol. 211; p. 317.
- Knoch, Oscar, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with reversible shoulder-piece. No. 1,162,933; Dec. 7; Gaz. vol. 221; p. 68.
- Knoche, Louis H., Martin City, Mo. Package-tie. No. 1,165,785; Dec. 28; Gaz. vol. 221; p. 1191.
- Knoebel, Robert P., Jr., North Bergen, N. J. Time-lock indicator. No. 1,123,895; Jan. 5; Gaz. vol. 210; p. 237.
- Knoedler, Elmer L., assignor to Welsbach Light Company, Gloucester City, N. J. Packing-box for mantles, &c. No. 1,145,491; July 6; Gaz. vol. 216; p. 181.
- Knoedler, Elmer L., assignor to Welsbach Light Company, Gloucester City, N. J. Packing-box for mantles, &c. No. 1,153,932; Sept. 21; Gaz. vol. 218; p. 627.
- Knoedler, Elmer L., assignor to Welsbach Light Company, Gloucester City, N. J. Apparatus for the manufacture of incandescent mantles. No. 1,157,555; Oct. 19; Gaz. vol. 219; p. 834.
- Knöpfli & Co., Dr. O. (See Arnold, Hans, assignor.)
- Knöpfli, Otto, Zurich, Switzerland, assignor, by mesne assignments, to Wagner Electric Manufacturing Company, St. Louis, Mo. Regulating the speed of alternating-current motors. No. 1,137,866; May 4; Gaz. vol. 214; p. 50.
- Knöpfli, Otto, Zurich, assignor to Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland. Alternating-current motor. No. 1,148,592; Aug. 3; Gaz. vol. 217; p. 39.
- Knopp, Fred B., Union City, Okla. Mail-bag catcher and deliverer. No. 1,154,323; Sept. 21; Gaz. vol. 218; p. 761.
- Knopp, Julius W., Toledo, Ohio. Feed control for oil-burners. No. 1,158,931; Nov. 2; Gaz. vol. 220; p. 183.
- Knopp, Otto A., Oakland, assignor to Pacific Gas & Electric Company, San Francisco, Cal. Electrical measuring apparatus. No. 1,141,642; June 1; Gaz. vol. 215; p. 197.
- Knorr, Jacob F., Patchogue, and C. Andrade, Jr., New York, N. Y. Stuffing-box. No. 1,153,933; Sept. 21; Gaz. vol. 218; p. 627.
- Knorr, Theodore H., Breckenridge, assignor of one-half to H. A. Recen, Denver, Colo. Oven. No. 1,149,070; Aug. 3; Gaz. vol. 217; p. 207.
- Knosher, Adolph, Naperville, Ill., assignor, by mesne assignments, to Kodak Company, East Cleveland, Ohio. Folding bed-lounge. No. 1,157,700; Oct. 26; Gaz. vol. 219; p. 949.
- Knoth, Conrad, Newark, N. J., assignor to Hyatt Roller Bearing Company. Electric riveting-machine. No. 1,128,690; Feb. 16; Gaz. vol. 211; p. 796.
- Knothe Brothers. (See Knothe, Frank F., assignor.)
- Knothe, Emil M. (See Howard and Knothe.)
- Knothe, Frank F., Ridgewood, N. J., assignor to Knothe Brothers, Inc., New York, N. Y. Belt-support. No. 1,165,979; Dec. 28; Gaz. vol. 221; p. 1258.
- Knott, Eustace R., Sharon, assignor to E. R. Knott Machine Company, Boston, Mass. Candy-making machine. No. 1,138,576; May 4; Gaz. vol. 214; p. 297.
- Knowles, Frederick, Hartford, Conn. Producing shaded effects in designs. No. 1,143,407; June 15; Gaz. vol. 215; p. 892.
- Knowles, George H., assignor of one-half to J. J. Abbott and one-half to A. J. Adams, Wyoming, Ill. Railway-track crossing. No. 1,153,166; Sept. 7; Gaz. vol. 218; p. 282.
- Knowles, Irvin C., Baltimore, Md. Rotary engine. No. 1,158,238; Oct. 26; Gaz. vol. 219; p. 1136.
- Knowlson, Frederick. (See Stevenson and Knowlson.)
- Knowlson, Frederick, Ann Arbor, Mich. Leaf-spring separator. No. 1,159,953; Nov. 9; Gaz. vol. 220; p. 578.
- Knowlton, Annie D., *et al.*, administrators. (See Knowlton, Mark D.)
- Knowlton, Charles F., and F. F. Elliott, Pittsburgh, Pa., assignors to The Osborn Manufacturing Company, Cleveland, Ohio. Mold-making machine. No. 1,132,723; Mar. 23; Gaz. vol. 212; p. 1135.
- Knowlton, Frank W., Quincy, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-breast-scouring machine. No. 1,148,691; Aug. 3; Gaz. vol. 217; p. 75.

Alphabetical list of patentees—Continued.

- Knowlton, Frederic K., *et al.*, administrators. (See Knowlton, Mark D.)
- Knowlton, Hiram W. (See Clawson, James L., assignor.)
- Knowlton, Mark D., deceased; A. D. and F. K. Knowlton, administrators, Rochester, N. Y. Paper-box-covering machine. No. 1,133,038; Mar. 23; Gaz. vol. 212; p. 1252.
- Knowlton, William H., Arlington, Mass., assignor to The Lamson Company, Newark, N. J. Ammunition-hoist. No. 1,148,098; July 27; Gaz. vol. 216; p. 1162.
- Knox, George A., Washington, D. C., assignor, to K. A. Knox, Cambridge, Mass. Torpedo. No. 1,163,158; Dec. 7; Gaz. vol. 221; p. 148.
- Knox, George A., Washington, D. C., assignor to K. A. Knox, Cambridge, Mass. Torpedo mechanism starter. No. 1,163,159; Dec. 7; Gaz. vol. 221; p. 149.
- Knox, George F., Milwaukee, Wis. Crown-cork seal. No. 1,129,578; Feb. 23; Gaz. vol. 211; p. 1145.
- Knox Hat Company. (See Brazier, Charles G., assignor.)
- Knox, Henry H., Limon, Colo. Yoke for cattle. No. 1,139,538; May 18; Gaz. vol. 214; p. 712.
- Knox, Jean H., Oakland, Cal. Building construction. No. 1,134,955; Apr. 6; Gaz. vol. 213; p. 311.
- Knox, Jean H., Oakland, Cal. Concrete construction. No. 1,142,259; June 8; Gaz. vol. 215; p. 450.
- Knox, John T. (See Trabold and Knox.)
- Knox, Kenneth A. (See Knox, George A., assignor.)
- Knox, Lewis Queen Junction, Pa. Automatic pipe-wrench. No. 1,153,694; Sept. 14; Gaz. vol. 218; p. 508.
- Knox, Luther L. (See Slick, Edwin E., assignor.)
- Knox, Luther L., Avalon, assignor to Knox Pressed and Welded Steel Company, Pittsburgh, Pa. Water-cooled valve or damper. No. 1,142,180; June 8; Gaz. vol. 215; p. 421.
- Knox, Luther L., Avalon, assignor to Knox Pressed & Welded Steel Company, Pittsburgh, Pa. Furnace protection. No. 1,143,284; June 15; Gaz. vol. 215; p. 847.
- Knox, Luther L., Avalon, assignor to Knox Pressed & Welded Steel Company, Pittsburgh, Pa. Blast-furnace construction. No. 1,151,192; Aug. 24; Gaz. vol. 217; p. 1178.
- Knox, Luther L., Avalon, assignor to Knox Pressed & Welded Steel Company, Pittsburgh, Pa. Water-cooled valve. No. 1,151,193; Aug. 24; Gaz. vol. 217; p. 1178.
- Knox, Luther L., Avalon, assignor to Knox Pressed and Welded Steel Company, Pittsburgh, Pa. Intake-valve. No. 1,165,007; Dec. 21; Gaz. vol. 221; p. 880.
- Knox Motors Company. (See Trego, Frank H., assignor.)
- Knox Pressed and Welded Steel Company. (See Knox, Luther L., assignor.)
- Knox Terpezone Company of America. (See Knox, William J., assignor.)
- Knox Thenardine Chemical Company. (See Knox, William J., assignor.)
- Knox, William J. (See Harrison and Knox.)
- Knox, William J., Dubois, Pa. Tank-car. No. 1,154,324; Sept. 21; Gaz. vol. 218; p. 762.
- Knox, William J., Dubois, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncoupling attachment. No. 1,123,553; Jan. 5; Gaz. vol. 210; p. 121.
- Knox, William J., Dubois, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncoupling-rigging. No. 1,123,554; Jan. 5; Gaz. vol. 210; p. 121.
- Knox, William J., Dubois, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncoupling attachment. No. 1,123,555; Jan. 5; Gaz. vol. 210; p. 122.
- Knox, William J., Dubois, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncoupling device for car-couplings. No. 1,123,896; Jan. 5; Gaz. vol. 210; p. 238.
- Knox, William J., New York, N. Y., assignor to Knox Terpezone Company of America. Apparatus for generating ozone. No. 1,130,827; Mar. 9; Gaz. vol. 212; p. 377.
- Knox, William J., Goldfield, Nev., assignor to Knox Thenardine Chemical Company, New York, N. Y. Antiseptic compound. No. 1,139,774; May 18; Gaz. vol. 214; p. 795.
- Knudsen, August L., Boston, Mass. Lubricator. No. 1,152,520; Sept. 7; Gaz. vol. 218; p. 51.
- Knudsen, Becker C., Clinton, Iowa. Automobile radiator-heating apparatus. No. 1,124,462; Jan. 12; Gaz. vol. 210; p. 484.
- Knudsen, Carl F. C., Los Angeles, Cal. Moldable milk product and making the same. No. 1,160,086; Nov. 9; Gaz. vol. 220; p. 620.
- Knudsen, Christian, Copenhagen, Denmark. Machine for cutting slices of meat or the like. No. 1,152,029; Aug. 31; Gaz. vol. 217; p. 1511.
- Knudsen, Hugo. (See Hatt, Joseph A. H., assignor.)
- Knudsen, Hugo C., Brooklyn, N. Y. Exposing-table. No. 1,151,477; Aug. 24; Gaz. vol. 217; p. 1272.
- Knudsen, Jacob B., Chicago, Ill. Emergency-brake. No. 1,145,595; July 6; Gaz. vol. 216; p. 216.
- Knudsen, John L., assignor of one-third to N. Peterson, Menominee, Mich., and one-third to A. W. Nelson, Chicago, Ill. Perambulator. No. 1,135,383; Apr. 13; Gaz. vol. 213; p. 503.
- Knudsen, Knud C., Boise, Idaho. Tool-holder for grindstones. No. 1,163,016; Dec. 7; Gaz. vol. 221; p. 98.
- Knudsen, William, Fremont, Neb., Manifold for internal-combustion engines. No. 1,124,916; Jan. 12; Gaz. vol. 210; p. 646.
- Knutson, Alfred W., assignor to Automatic Devices Company, Galesburg, Ill. Automatic engine-starter. No. 1,145,690; July 6; Gaz. vol. 216; p. 250.
- Knutson, Chris., Seattle, Wash. Receptacle. No. 1,163,017; Dec. 7; Gaz. vol. 221; p. 99.
- Knutson, Thomas A., Vermilion, S. D. Tool for removing engine-valves. No. 1,163,018; Dec. 7; Gaz. vol. 221; p. 99.
- Kny Sheerer Company, The. (See Hawley, George W., assignor.)
- Kny-Scheerer Company. (See Klett, Robert, assignor.)
- Kny-Scheerer Company, The. (See Peabody, Charles M., assignor.)
- Kny-Scheerer Company. (See Winter and Klett, assignors.)
- Kobbé, William H., Pasadena, Cal. Studing-box. No. 1,128,793; Feb. 16; Gaz. vol. 211; p. 832.
- Kobelt, Valerius, Berlin, Germany. Obtaining base-exchanging substances. No. 1,147,515; July 20; Gaz. vol. 216; p. 929.
- Kober & Co., Wilh. (See Van Devoorde, Eugen, assignor.)
- Kobert, Edward J., Woodside, N. Y. Carpenter's clamp. No. 1,145,199; July 6; Gaz. vol. 216; p. 78.
- Kobert, Frank P., New Haven, Conn. Electric riveting apparatus. No. 1,139,300; May 11; Gaz. vol. 214; p. 591.
- Kobiolke, Adolf M. (See Fink and Kobiolke.)
- Kobs, John, Jr., and M. Stewart, Ashland, Ky. Headlight-shield. No. 1,141,124; June 1; Gaz. vol. 215; p. 12.
- Koccz, Michael. (See Sabo, Daniel, assignor.)
- Koch, Adolph H., Los Angeles, Cal. Gas burner and mixer. No. 1,130,984; Mar. 9; Gaz. vol. 212; p. 432.
- Koch, Charles, New York, N. Y. Automatic signal for vehicles. No. 1,129,691; Feb. 23; Gaz. vol. 211; p. 1181.
- Koch, Charles W. F., and U. G. Shuler, Decatur, Ill. Grain-car door. No. 1,125,344; Jan. 19; Gaz. vol. 210; p. 835.
- Koch, Eberhard, Grosse Tete, La. Turpentine and resin extractor. No. 1,127,452; Feb. 9; Gaz. vol. 211; p. 317.
- Koch, Friedrich, Parsons, Kans. Oven. No. 1,150,865; Aug. 24; Gaz. vol. 217; p. 1067.
- Koch, Friedrich, Frankfurt-on-the-Main, Germany. Process and apparatus for making tips on laces. No. 1,148,971; Aug. 3; Gaz. vol. 217; p. 172.
- Koch, Hans, and J. J. Müller, Dietikon, Switzerland. Warp stop-motion for looms. No. 1,129,692; Feb. 23; Gaz. vol. 211; p. 1181.
- Koch, John, and J. F. Zimmerman, Akron, Ohio. Tire-making machine. No. 1,158,506; Nov. 2; Gaz. vol. 220; p. 34.
- Koch, Karl F. W., Chicago, Ill. Spading-plate for waterproof footwear. No. 1,152,185; Aug. 31; Gaz. vol. 217; p. 1564.
- Koch, Norbert, Essen-Rellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recoil-gun on wheeled gun-carriage. No. 1,156,533; Oct. 12; Gaz. vol. 219; p. 446.
- Koch, Norbert, Essen-Rellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Adjustable axletree for mobile artillery. No. 1,163,019; Dec. 7; Gaz. vol. 221; p. 99.
- Koch, Norbert, Essen-Rellinghausen, and G. Hayn, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Wheeled gun-carriage. No. 1,137,763; May 4; Gaz. vol. 214; p. 14.
- Koch, Otto C., Bayonne, N. J. Spring-wheel. No. 1,133,973; Mar. 30; Gaz. vol. 212; p. 1616.
- Koch, Otto C., Bayonne, N. J. Spring-wheel. No. 1,164,529; Dec. 14; Gaz. vol. 221; p. 673.
- Koch, William L. C., Dedham, Mass. Fish-hook. No. 1,134,622; Apr. 6; Gaz. vol. 213; p. 196.
- Koch, Wm. (See Kessler, Virgil M., assignor.)
- Kochendoerfer, Ernst, Frankfurt-on-the-Main, Germany. Manufacturing nitrogen compounds. No. 1,165,358; Dec. 21; Gaz. vol. 221; p. 1002.
- Kochendoerfer, Ernst, Frankfurt-on-the-Main, Germany, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Soap containing active oxygen and making it. No. 1,153,167; Sept. 7; Gaz. vol. 218; p. 282.
- Kochevar, Martin J. A., Jr., Pueblo, Colo. Grasshopper-destroyer. No. 1,133,039; Mar. 23; Gaz. vol. 212; p. 1252.
- Kochmann, Carl, Charlottenburg, Germany, and J. G. Selhal, Gentofte, near Copenhagen, Denmark, assignors to Aktieselskabet Drivremfabriken "Dana", Lyngby, Denmark. Manufacturing textile belts. No. 1,163,417; Dec. 7; Gaz. vol. 221; p. 238.
- Kocotes, James C., Cupertino, Cal. Horseshoe. No. 1,145,247; July 6; Gaz. vol. 216; p. 96.
- Kocourek, Henry, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-feed indicator. No. 1,160,418; Nov. 16; Gaz. vol. 220; p. 790.
- Kocsis, Emory. (See Swany, Melchor, assignor.)
- Kodav Company. (See Knosher, Adolph, assignor.)
- Köderitzsch, Curt, Dortmund, Germany. Device for automatically lowering the trolley-pole of electrically-driven vehicles. No. 1,127,453; Feb. 9; Gaz. vol. 211; p. 317.
- Koeb, Emil, New York, N. Y., and R. P. Thompson, Leipsic, Ohio. Vehicle-spring. No. 1,156,909; Oct. 19; Gaz. vol. 219; p. 607.
- Koebel, Otto P., assignor of one-third to J. J. Clair, St. Louis, Mo. Protective overshoe. No. 1,125,558; Jan. 19; Gaz. vol. 210; p. 909.

- Koehlin, Albert G., Basel, Switzerland, assignor to Spinnerei & Weberei Steinen Actien-Gesellschaft, Steinen, Germany. Weft-bobbin-exchange device for looms. No. 1,142,569; June 8; Gaz. vol. 215; p. 558.
- Koegele, Walter F. (See Hoffman, Koegele, and Bayerl.)
- Koehl, Louis C., assignor to Ritter-Conley Manufacturing Company, Pittsburgh, Pa. Gage device for punching-machines. No. 1,135,531; Apr. 13; Gaz. vol. 213; p. 555.
- Koehler, Ernest F., Hudson, assignor, by mesne assignments, to E. H. Kingsbury, agent, Marlborough, Mass. Miner's safety-lamp. No. 1,132,522; Mar. 16; Gaz. vol. 212; p. 1013.
- Koehler, Fredrick G., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,126,032; Jan. 26; Gaz. vol. 210; p. 1111.
- Koehler, James A., Saginaw, Mich. Circle-swing. No. 1,142,970; June 15; Gaz. vol. 215; p. 737.
- Koehler, Maximilian E., Spokane, Wash., assignor of one-third to J. C. Merwin and one-third to H. Kreller and W. S. Bennett. Apparatus for mechanically throwing a base-ball. No. 1,152,186; Aug. 31; Gaz. vol. 217; p. 1564.
- Koehn, Edward P. (See Lehrack and Koehn.)
- Koehl, Frank. (See Moritz, Koelsch, and Koehn.)
- Koehring Machine Co. (See Lichtenberg, Erich H., assignor.)
- Koehring Machine Company. (See Koehring, Philip A., assignor.)
- Koehring, Philip A., assignor to Koehring Machine Company, Milwaukee, Wis. Concrete-mixer. No. 1,126,487; Jan. 26; Gaz. vol. 210; p. 1275.
- Koehring, Philip A., assignor to Koehring Machine Company, Milwaukee, Wis. Water-measuring device. No. 1,149,922; Aug. 10; Gaz. vol. 217; p. 617.
- Koella, Ernest, Knoxville, Tenn. Cutting mechanism. No. 1,143,285; June 15; Gaz. vol. 215; p. 847.
- Koella, Ernest, Knoxville, Tenn. Sewing-machine. No. 1,143,286; June 15; Gaz. vol. 215; p. 848.
- Koeller, Fritz, Cologne, Germany. Bayonet. No. 1,150,273; Aug. 17; Gaz. vol. 217; p. 805.
- Koelsch, Joseph J. (See Moritz, Koelsch, and Koehn.)
- Koelzer, William, Auburn, Nebr. Internal-combustion engine. No. 1,132,357; Mar. 16; Gaz. vol. 212; p. 952.
- Koenen, Joseph, Milwaukee, Wis. Route-book. No. 1,161,482; Nov. 23; Gaz. vol. 220; p. 1215.
- Koenig, David. (See McBerty and Koenig.)
- Koenig, David, assignor to Western Electric Company, New York, N. Y. Telephone-transmitter. No. 1,138,959; May 11; Gaz. vol. 214; p. 473.
- Koenig, Joseph, Two Rivers, Wis. Internal-combustion engine. No. 1,127,642; Feb. 9; Gaz. vol. 211; p. 380.
- Koenig, Joseph, Two Rivers, Wis. Drawing-press. No. 1,162,374; Nov. 30; Gaz. vol. 220; p. 1571.
- Koenig, Joseph, Two Rivers, Wis. Making spouts. No. 1,165,421; Dec. 28; Gaz. vol. 221; p. 1064.
- Koenig, William J., Underwood, N. D. Combined manure loader and spreader. No. 1,125,122; Jan. 19; Gaz. vol. 210; p. 754.
- Koenigkramer, Frank, assignor of one-half to F. Koentz-kramer, Cincinnati, Ohio. Hydraulic lifting mechanism. No. 1,164,290; Dec. 14; Gaz. vol. 221; p. 588.
- Koenigkramer, Frederick. (See Koenigkramer, Frank, assignor.)
- Koepp, Albert H., San Diego, Cal. Rotary conveyer. No. 1,124,145; Jan. 5; Gaz. vol. 210; p. 321.
- Koepfen, Ludwig J., et al. (See Swartwood, George, assignor.)
- Koerber, Anthony F., Detroit, Mich. Collapsible window-frame for vehicle-bodies. No. 1,157,875; Oct. 26; Gaz. vol. 219; p. 1009.
- Koering, Bruno R., assignor to Koering Cyaniding Process Company, Detroit, Mich. Apparatus for the recovery of precious metals. No. 1,163,828; Dec. 14; Gaz. vol. 221; p. 429.
- Koering, Bruno R., assignor to Koering Cyaniding Process Company, Detroit, Mich. Precipitation device. No. 1,163,829; Dec. 14; Gaz. vol. 221; p. 430.
- Koering Cyaniding Process Company. (See Koering, Bruno R., assignor.)
- Koerner, Louis T., et al. (See Binkley, William C., assignor.)
- Koert, Martin, Passaic, N. J., assignor to Salvation Match Company, New York, N. Y. Match-machine. No. 1,145,200; July 6; Gaz. vol. 216; p. 79.
- Koerting, Ernst, Pegli, Italy, assignor to Schutte & Koerting Company, Philadelphia, Pa. Automatic boiler-feed apparatus. No. 1,133,040; Mar. 23; Gaz. vol. 212; p. 1253.
- Koerting, Ernst, Pegli, near Genoa, Italy, assignor to Schutte & Koerting Company, Philadelphia, Pa. Jet apparatus. No. 1,158,239; Oct. 26; Gaz. vol. 219; p. 1137.
- Koosis, Gynla, St. Clairsville, Ohio, and J. Lukö, Latrobe, Pa. Air-motor. No. 1,124,460; Jan. 12; Gaz. vol. 210; p. 484.
- Koffer, Charles, New York, N. Y. Clothes-line support. No. 1,140,986; May 25; Gaz. vol. 214; p. 1256.
- Kofod, Aage, Zurich, Switzerland, assignor, by mesne assignments, to Liquid Fuel & Gas Company, Wheeling, W. Va. Blowpipe. No. 1,125,559; Jan. 19; Gaz. vol. 210; p. 910.
- Koftan, Vincent, Tyndall, S. D. Lifting-jack for automobiles. No. 1,134,140; Apr. 6; Gaz. vol. 213; p. 21.
- Koger, Marvin V., Rogersville, Tenn. Combination van-wagon. No. 1,156,693; Oct. 12; Gaz. vol. 219; p. 502.
- Kohl, Aaron W. (See Walters, Beckman, and Kohl.)
- Kohl, Clinton T., et al. (See Teamer, James M., assignor.)
- Kohl, Elisabeth G., San Mateo, Cal. Combined key-ring and napkin-holder. No. 1,132,859; Mar. 23; Gaz. vol. 212; p. 1186.
- Kohl, Ludwig, Frankfort-on-the-Main, Germany. Device for protecting buildings against earthquakes. No. 1,158,932; Nov. 2; Gaz. vol. 220; p. 183.
- Kohlbach, Henry F. W., New Bedford, Mass. Automatic train-stop. No. 1,140,380; May 25; Gaz. vol. 214; p. 1043.
- Kohlberger, Charles F., New York, N. Y. Pin-tumbler lock. No. 1,135,027; Apr. 13; Gaz. vol. 213; p. 382.
- Köhler, Adolf, Berlin, Germany. Machine for filling sausages and the like. No. 1,143,715; June 22; Gaz. vol. 215; p. 1020.
- Köhler, August, assignor to Firm of C. Zeiss, Jena, Germany. Lighting system for cinematographs. No. 1,143,287; June 15; Gaz. vol. 215; p. 848.
- Köhler Co. (See Köhler, Walter J., assignor.)
- Köhler, G. A. Edward. (See Stone, Irving I., assignor.)
- Köhler, George B. (See Kling and Köhler.)
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Coin-selector. No. 1,123,759; Jan. 5; Gaz. vol. 210; p. 192.
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Means for securing springs to slats. No. 1,124,031; Jan. 5; Gaz. vol. 210; p. 283.
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 1,152,108; Aug. 31; Gaz. vol. 217; p. 1559.
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-window. No. 1,162,494; Nov. 30; Gaz. vol. 220; p. 1613.
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Guide for pivoted doors. No. 1,163,418; Dec. 7; Gaz. vol. 221; p. 239.
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Door and step operating mechanism for passenger-cars. No. 1,164,362; Dec. 14; Gaz. vol. 221; p. 615.
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Pivoted step for passenger-cars. No. 1,164,363; Dec. 14; Gaz. vol. 221; p. 616.
- Köhler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 1,164,530; Dec. 14; Gaz. vol. 221; p. 674.
- Köhler, Hugo. (See Merling, Chrzescinski, and Köhler.)
- Köhler, I. J., et al. (See Hoagland, Ellery M., assignor.)
- Köhler, Joseph, assignor of one-half to K. C. Köhler, Chicago, Ill. Elastic wheel. No. 1,151,019; Aug. 24; Gaz. vol. 217; p. 1119.
- Köhler, Kittle C. (See Köhler, Joseph, assignor.)
- Köhler, Robert L., assignor to The Sea Swing Company, Cleveland, Ohio. Roundabout for aquatic use. No. 1,156,151; Oct. 12; Gaz. vol. 219; p. 314.
- Köhler, Walter J., Sheboygan, assignor to Köhler Co., Köhler, Wis. Bath-tub pattern. No. 1,159,395; Nov. 9; Gaz. vol. 220; p. 375.
- Kohlhepp, John W., Chicago, Ill., assignor to The Albright-Nell Company. Carcass scraping, polishing, and cleaning mechanism. No. 1,125,560; Jan. 19; Gaz. vol. 210; p. 910.
- Kohlhepp, John W., Chicago, Ill., assignor to The Albright-Nell Company. Carcass scraping and cleaning mechanism. No. 1,125,561; Jan. 19; Gaz. vol. 210; p. 910.
- Kohlhepp, John W., Chicago, Ill., assignor to The Albright-Nell Company. Carcass polishing and cleaning mechanism. No. 1,125,562; Jan. 19; Gaz. vol. 210; p. 911.
- Kohlhepp, Rudolf, Jersey City, N. J. Metallic stock for jewelry, &c. No. 1,124,461; Jan. 12; Gaz. vol. 210; p. 484.
- Kohlmeier, August H., assignor to Thermo Automatic Stove Company, St. Louis, Mo. Gas-oven. No. 1,135,700; Apr. 13; Gaz. vol. 213; p. 616.
- Kohman, Henry A., Pittsburgh, Pa. Ferment and producing and preserving the same. No. 1,149,839; Aug. 10; Gaz. vol. 217; p. 588.
- Kohman, Henry A., C. Hoffman, and T. M. Godfrey, Pittsburgh, Pa., assignors to C. Adams, trustee, New Rochelle, N. Y. Manufacture of bread. No. 1,148,328; July 27; Gaz. vol. 216; p. 1245.
- Kohman, Henry A., Pittsburgh, Pa., C. Hoffman, New Rochelle, N. Y., and T. M. Godfrey, Pittsburgh, Pa., assignors to C. Adams, trustee, New Rochelle, N. Y. Manufacture of bread. No. 1,148,329; July 27; Gaz. vol. 216; p. 1245.
- Kohman, Henry A., Pittsburgh, Pa., C. Hoffman, New York, N. Y., and T. M. Godfrey, Pittsburgh, Pa. Yeast-saving composition in bread-making. No. 1,151,526; Aug. 24; Gaz. vol. 217; p. 1290.
- Kohman, Henry A., C. Hoffman, and A. E. Blake, Pittsburgh, Pa., assignors to Ward Baking Company, New York, N. Y. Manufacture of bread. No. 1,158,933; Nov. 2; Gaz. vol. 220; p. 183.

Alphabetical list of patentees—Continued.

- Kohman, Henry A., Pittsburgh, Pa., c. Hoffman, New Rochelle, N. Y., and A. E. Blake, Pittsburgh, Pa., assignors, by mesne assignments, to Ward Baking Company, New York, N. Y. Manufacture of bread. No. 1,158,934; Nov. 2; Gaz. vol. 220; p. 184.
- Kohn, Alfred. (See Thorandt and Kohn.)
- Kohn, Jacob, *et al.* (See Baur, Frederick J., assignor.)
- Kohn, Julius, Vienna, Austria-Hungary. Furniture-leg fastener. No. 1,143,836; June 22; Gaz. vol. 215; p. 1062.
- Kohn, Koby, assignor to Western Furniture and Manufacturing Company, Lincoln, Nebr. Mattress. No. 1,145,069; July 6; Gaz. vol. 216; p. 35.
- Kohn, Leopold. (See Biss and Kohn.)
- Kohn, Louis, Chicago, Ill. Watchmaker's tool for adjusting balance-wheels. No. 1,153,695; Sept. 14; Gaz. vol. 218; p. 509.
- Kohn, Maurice R. (See Hiller and Kohn.)
- Kohn, Samuel, *et al.* (See Baur, Frederick J., assignor.)
- Kohnle, Frederick, Dayton, Ohio, assignor, by mesne assignments, to The Monarch Tag Company. Price-tag. No. 1,130,614; Mar. 2; Gaz. vol. 212; p. 271.
- Kohnle, Frederick, Dayton, Ohio, assignor, by mesne assignments, to The Monarch Tag Company. Stapling-machine. No. 1,147,873; July 27; Gaz. vol. 216; p. 1081.
- Kohnle, Henry, Springfield, Ohio. Circulation system for automobiles. No. 1,158,691; Nov. 2; Gaz. vol. 220; p. 98.
- Kohorn, Oscar, Chemnitz, Germany. Manufacture of figured pile fabrics. No. 1,156,485; Oct. 12; Gaz. vol. 219; p. 430.
- Kohout, Emanuel G., New York, N. Y. Garment-hanger. No. 1,132,190; Mar. 16; Gaz. vol. 212; p. 891.
- Kohout, Emanuel G., New York, N. Y. Power attachment for automobiles. No. 1,148,174; July 27; Gaz. vol. 216; p. 1190.
- Kohr, William H., Penbrook, Pa. Metallic roofing. No. 1,140,835; May 25; Gaz. vol. 214; p. 1201.
- Köhres, Georg. (See Gartner and Köhres.)
- Kolle, Ross E., Brandon, Iowa. Laundry machinery. No. 1,163,668; Dec. 14; Gaz. vol. 221; p. 379.
- Kollma, Masayoshi, Los Angeles, Cal. Sanitary napkin. No. 1,123,314; Jan. 5; Gaz. vol. 210; p. 40.
- Kollma, Masayoshi, assignor of one-third to T. Sakurai, Los Angeles, Cal. Envelop. No. 1,159,686; Nov. 9; Gaz. vol. 220; p. 478.
- Kokanour, Elmer L., Rogers, Ark. Matrix-cleaner. No. 1,152,187; Aug. 31; Gaz. vol. 217; p. 1565.
- Koken Barbers' Supply Company. (See Koken, Walter F., assignor.)
- Koken, Walter F., assignor to Koken Barbers' Supply Company, St. Louis, Mo. Manicurist-table. No. 1,162,290; Nov. 30; Gaz. vol. 220; p. 1543.
- Koken, Walter F., and A. J. Piehl, St. Louis, Mo. Internal-combustion engine. No. 1,161,220; Nov. 23; Gaz. vol. 220; p. 1122.
- Koken, Walter F., and A. J. Piehl, St. Louis, Mo. Valve mechanism for internal-combustion engines. No. 1,161,221; Nov. 23; Gaz. vol. 220; p. 1123.
- Koken, Walter F., and A. J. Piehl, St. Louis, Mo. Valve mechanism for internal-combustion engines. No. 1,161,222; Nov. 23; Gaz. vol. 220; p. 1123.
- Koken, Walter F., and A. J. Piehl, St. Louis, Mo. Valve mechanism for internal-combustion engines. No. 1,161,223; Nov. 23; Gaz. vol. 220; p. 1123.
- Koken, Walter F., and A. J. Piehl, St. Louis, Mo. Valve mechanism for internal-combustion engines. No. 1,161,224; Nov. 23; Gaz. vol. 220; p. 1124.
- Koken, Walter F., and A. J. Piehl, St. Louis, Mo. Valve mechanism for internal-combustion engines. No. 1,161,225; Nov. 23; Gaz. vol. 220; p. 1124.
- Koken, Walter F., and H. J. Richards, St. Louis, Mo. Electroplating apparatus. No. 1,161,226; Nov. 23; Gaz. vol. 220; p. 1124.
- Kolár, Nándor, assignor to Autometrograph Részvénytársaság, Budapest, Austria-Hungary. Calculating and printing apparatus for meters. No. 1,145,596; July 6; Gaz. vol. 216; p. 216.
- Kolashinske, Andrew J., Glenwood City, Wis. Gate-hinge. No. 1,130,908; Mar. 9; Gaz. vol. 212; p. 406.
- Kolb, Emanuel G. (See Dutton, Frank Q., assignor.)
- Kolb, Emil S., Philadelphia, Pa. Crib. No. 1,158,507; Nov. 2; Gaz. vol. 220; p. 34.
- Kolb, Frederick W., La Conner, Wash. Means for oiling skids. No. 1,133,439; Mar. 30; Gaz. vol. 212; p. 1429.
- Kolb, Frederick W., La Conner, Wash. Means for cleaning and oiling the skids of skidways. No. 1,137,867; May 4; Gaz. vol. 214; p. 50.
- Kolb, Henry M., and R. F. Sedgley, Philadelphia, Pa.; said Sedgley assignor to said Kolb. Ratchet-wrench. No. 1,140,167; May 18; Gaz. vol. 214; p. 935.
- Kolb, John. (See Drozeski, Julius R., assignor.)
- Kolb, Josef, Neutitschein, Austria-Hungary. Machine for making the bats for bats. No. 1,128,007; Feb. 9; Gaz. vol. 211; p. 512.
- Kolb, Josef, Neutitschein, Austria-Hungary. Apparatus for brushing felt bat-bodies. No. 1,165,516; Dec. 28; Gaz. vol. 221; p. 1096.
- Kolb, William F., McDonald, Pa. Valve. No. 1,133,041; Mar. 23; Gaz. vol. 212; p. 1253.
- Kolbe, August G., assignor to Detroit Oak Belting Company, Detroit, Mich. Belt. No. 1,147,874; July 27; Gaz. vol. 216; p. 1081.
- Kolda, James. (See Klimes, Albert, assignor.)
- Kolden, Louis O. E., Odin, Minn. Threshing-machine. No. 1,165,786; Dec. 28; Gaz. vol. 221; p. 1191.
- Kolenic, Andrew, Jr., Streator, Ill. Mining implement. No. 1,137,637; Apr. 27; Gaz. vol. 213; p. 1380.
- Kolff, Petrus V., Moylan, and J. E. Hollyday, assignors to The Electric Tachometer Company, Philadelphia, Pa. Tachometer. No. 1,148,692; Aug. 3; Gaz. vol. 217; p. 76.
- Kollberg, Gustaf L., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Cross-head. No. 1,154,780; Sept. 28; Gaz. vol. 218; p. 946.
- Kollenborn, John L., Kansas City, Mo. Vehicle-canopy. No. 1,130,299; Mar. 2; Gaz. vol. 212; p. 159.
- Kollmorgen, Frederick L. G., Boonton, assignor to Keuffel & Esser Company, Hoboken, N. J. Optical instrument. No. 1,134,388; Apr. 6; Gaz. vol. 213; p. 111.
- Kollner, Thomas, Owendale, Mich. Animal-releasing device. No. 1,139,539; May 18; Gaz. vol. 214; p. 712.
- Kolocotronis, Thomas J., Shenandoah, Pa. Attachment for barbers' chairs. No. 1,137,764; May 4; Gaz. vol. 214; p. 15.
- Kolpien, John H., Westfield, N. Y. Road-bone. No. 1,135,532; Apr. 13; Gaz. vol. 213; p. 556.
- Komaresevits, George, and G. Traiber, Lorain, Ohio. Safety device for locks. No. 1,135,589; Apr. 13; Gaz. vol. 213; p. 577.
- Komarek, Gustav, assignor to St. Louis Briquette Machine Company, St. Louis, Mo. Briquet machine. No. 1,164,822; Dec. 21; Gaz. vol. 221; p. 816.
- Kommers, Jesse B., Madison, Wis. Repeated-stress-testing machine. No. 1,163,830; Dec. 14; Gaz. vol. 221; p. 430.
- Komorous, Joseph, assignor to Parlatan Novelty Company, Chicago, Ill. Sheet-metal container. No. 1,158,935; Nov. 2; Gaz. vol. 220; p. 184.
- Komow, Nicholas. (See Zawistowski, Perlman, and Komow.)
- Komow, Nicolas, assignor to The United States Cloth Cutting Machine Co., Inc., New York, N. Y. Electric cloth-cutting machine. No. 1,141,087; May 25; Gaz. vol. 214; p. 1289.
- Komp, Frank. (See Holsclaw and Komp.)
- Konar, John, Chicago, Ill. Perculator. No. 1,127,780; Feb. 9; Gaz. vol. 211; p. 431.
- Kondras, Jozef. (See Kondras, Thomas and J.)
- Kondras, Thomas and J., Iron River, Mich. Plow. No. 1,158,936; Nov. 2; Gaz. vol. 220; p. 184.
- Koneiska, Herman M. (See Miller and Koneiska.)
- Könemann, Wilhelm, Minden, Germany. Writing-table. No. 1,153,501; Sept. 14; Gaz. vol. 218; p. 442.
- Konerman, Harry, Newport, Ky., assignor to The Globe Register Company, Cincinnati, Ohio. Record-roll for autographic registers. No. 1,147,875; July 27; Gaz. vol. 216; p. 1081.
- König, Albert, assignor to Firm of C. Zeiss, Jena, Germany. Ocular. No. 1,159,233; Nov. 2; Gaz. vol. 220; p. 287.
- König, Joseph, Munster, Germany. Making foodstuffs from sulfite cellulose waste liquors. No. 1,128,154; Feb. 9; Gaz. vol. 211; p. 564.
- Konigsberg, Joseph. (See Forshelm and Konigsberg.)
- Konietzky, Alfred. (See Hering, Louis F., assignor.)
- Konsel, John, assignor of one-fourth to F. Blahnik, New York, N. Y. Automatic railway-gate. No. 1,133,974; Mar. 30; Gaz. vol. 212; p. 1617.
- Konsrv Electric Company, The. (See Cook, Frank J., assignor.)
- Koob, George W., Montrose, Colo. Signal-lamp. No. 1,129,833; Feb. 23; Gaz. vol. 211; p. 1229.
- Koonce, Oliver, Castor, La. Intermittent-grip device for wire-stretchers. No. 1,132,724; Mar. 23; Gaz. vol. 212; p. 1135.
- Koons, Frank, Grooville, N. Y. Wrench. No. 1,146,000; July 13; Gaz. vol. 216; p. 378.
- Koons Oil Furnace Company. (See Smith, Albert D., assignor.)
- Koons, Virgil C., Colorado Springs, Colo. Two-wheeled vehicle. No. 1,126,023; Jan. 26; Gaz. vol. 210; p. 1112.
- Koontz, Edwin J., Wadsworth, Ohio. Covering thin articles with pyroxylin compounds. No. 1,148,908; Aug. 3; Gaz. vol. 217; p. 151.
- Koontz, Victor R., Waynesboro, Pa. Cutter-head. No. 1,123,315; Jan. 5; Gaz. vol. 210; p. 40.
- Koontz, Victor R., Waynesboro, Pa. Cutter-head. No. 1,149,452; Aug. 10; Gaz. vol. 217; p. 447.
- Koop, Edward A., Louisville, Ky. Bottle-stopper. No. 1,165,422; Dec. 28; Gaz. vol. 221; p. 1061.
- Koop, William E., *et al.* (See Geiger, Charles E., assignor.)
- Kooyman, John D., Salt Lake City, Utah. Automatic elevator-stop. No. 1,136,144; Apr. 20; Gaz. vol. 213; p. 812.
- Kopacki, Albert G., Bay City, Mich. Monkey-wrench. No. 1,145,597; July 6; Gaz. vol. 216; p. 216.
- Kopecky, Joseph, Racine, Wis. Shoe-button. No. 1,144,852; June 29; Gaz. vol. 215; p. 1444.
- Kopekee, Thomas C., Crofton, Nebr. Clothes-line. No. 1,165,517; Dec. 28; Gaz. vol. 221; p. 1096.

- Kopf, Charles, Newark, N. J. Handle for satchels and the like. No. 1,157,400; Oct. 19; Gaz. vol. 219; p. 782.
- Kopf, Frederick, Memphis, Tenn. Horseshoe-pad. No. 1,131,064; Mar. 9; Gaz. vol. 212; p. 459.
- Kopf, Melrose G., assignor to McCormick Manufacturing Company, Dayton, Ohio. Priming device. No. 1,148,693; Aug. 3; Gaz. vol. 217; p. 76.
- Kopinski, Thomas, Rochester, N. Y. Surface-gage. No. 1,135,941; Apr. 13; Gaz. vol. 213; p. 698.
- Kopinski, Thomas, Rochester, N. Y. Gear-teeth calipers. No. 1,156,694; Oct. 12; Gaz. vol. 219; p. 502.
- Kopinski, Thomas, Rochester, N. Y. Agricultural machine. No. 1,159,959; Nov. 9; Gaz. vol. 220; p. 579.
- Kopischke, Lydia J., Vernon Center, Minn. Broom-bridle. No. 1,154,781; Sept. 28; Gaz. vol. 218; p. 947.
- Koppelman, Morris, New York, N. Y. Emergency stop and jack for automobiles. No. 1,136,145; Apr. 20; Gaz. vol. 213; p. 812.
- Koppelman, Morris, New York, N. Y. Button. No. 1,139,425; May 11; Gaz. vol. 214; p. 637.
- Köppen, Lothar von, Stettin-on-the-Oder, Germany. Ship's hull. No. 1,136,888; Apr. 20; Gaz. vol. 213; p. 1076.
- Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor to H. Koppers Company, Chicago, Ill. Oven for generating gas and producing coke. No. 1,125,345; Jan. 19; Gaz. vol. 210; p. 836.
- Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor to H. Koppers Company, Chicago, Ill. Oven for generating gas and producing coke. No. 1,134,683; Apr. 6; Gaz. vol. 213; p. 219.
- Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor to H. Koppers Company, Chicago, Ill. Operating gas-producers. No. 1,146,627; July 13; Gaz. vol. 216; p. 600.
- Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor to H. Koppers Company, Chicago, Ill. Apparatus for purifying benzol. No. 1,157,988; Oct. 26; Gaz. vol. 219; p. 1049.
- Koppitz, Benjamin A., Detroit, Mich., and P. Sherrer, Cleveland, Ohio. Apparatus for brewing beer. No. 1,127,899; Feb. 9; Gaz. vol. 211; p. 475.
- Kops Bros. (See Kops and Giles, assignors.)
- Kops Brothers. (See Kops, Waldemar, assignor.)
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,127,023; Feb. 2; Gaz. vol. 211; p. 127.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,127,024; Feb. 2; Gaz. vol. 211; p. 128.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,135,698; Apr. 13; Gaz. vol. 213; p. 616.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,152,109; Aug. 31; Gaz. vol. 217; p. 1539.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,152,554; Sept. 7; Gaz. vol. 218; p. 211.
- Kops, Waldemar, New York, N. Y. Garment-clasp. No. 1,155,072; Sept. 28; Gaz. vol. 218; p. 1046.
- Kops, Waldemar, assignor to Kops Brothers, New York, N. Y. Buckle. No. 1,139,301; May 11; Gaz. vol. 214; p. 592.
- Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Buckle. No. 1,148,972; Aug. 3; Gaz. vol. 217; p. 173.
- Kops, Waldemar, New York, N. Y., and H. Giles, Bound-brook, N. J., assignors to Kops Bros., New York, N. Y. Buckle. No. 1,142,523; June 8; Gaz. vol. 215; p. 543.
- Koretzky, Harry M., New York, N. Y. Flash-light. No. 1,155,249; Sept. 28; Gaz. vol. 218; p. 1105.
- Koretzky, Israel, assignor to L. J. Morrison, New York, N. Y. Portable electric light. No. 1,146,628; July 13; Gaz. vol. 216; p. 600.
- Koretzky, Israel, assignor to L. J. Morrison, New York, N. Y. Dry battery. No. 1,160,907; Nov. 16; Gaz. vol. 220; p. 966.
- Korinek, Charles J., assignor to Korinek Veterinary Remedy Company, Medford, Oreg. Veterinary instrument. No. 1,142,715; June 8; Gaz. vol. 215; p. 606.
- Korinek Veterinary Remedy Company. (See Korinek, Charles J., assignor.)
- Korlasky, Frank A., Rhineland, Wis. Machine for making grille-work. No. 1,139,775; May 18; Gaz. vol. 214; p. 795.
- Kormanshaus, Carl, Barmen, Germany, assignor to Stokes & Smith Company, Summerville, Pa. Container. No. 1,137,268; Apr. 27; Gaz. vol. 213; p. 1252.
- Kormanshaus, Carl, Barmen, Germany, assignor to Stokes & Smith Company, Summerville, Pa. Making containers. No. 1,137,269; Apr. 27; Gaz. vol. 213; p. 1252.
- Korallüh, Ignatius, New York, N. Y. Automatic absorbent-cotton-wrapping machine. No. 1,140,944; May 18; Gaz. vol. 214; p. 892.
- Korsmo, Torbjörn C., and T. C. Olson, Madison, Wis. Automatic photographic-printing machine. No. 1,151,954; Aug. 31; Gaz. vol. 217; p. 1484.
- Kortum, Anton H., and F. Baus, Long Prairie, Minn. Potato-fork. No. 1,135,820; Apr. 13; Gaz. vol. 213; p. 658.
- Körting, Firm of Wihl. (See Nitz, Bruno, assignor.)
- Korting & Mathieson Aktiengesellschaft. (See Fretzdorf, Richard, assignor.)
- Kortmann, Paul, Berlin-Waldmannslust, assignor to Berliner Maschinenbau-Aktien-Gesellschaft vormals L. Schwartzkopff, Berlin, Germany. Gyroscope. No. 1,143,975; June 22; Gaz. vol. 215; p. 1109.
- Kortum, Henry, Davenport, Iowa. Protective fuel-valve for automobiles. No. 1,125,123; Jan. 19; Gaz. vol. 210; p. 754.
- Kortz, Conrad J., Cleveland, Ohio. Puzzle. No. 1,165,980; Dec. 28; Gaz. vol. 221; p. 1258.
- Kosel, Georg, Meissen, Germany. Closing contrivance for corsets and the like. No. 1,133,479; Mar. 30; Gaz. vol. 212; p. 1442.
- Kosetky, Joseph. (See Woodruff and Kosetky.)
- Kosienski, Jacob, and A. Kaminski, assignors of one-third to B. H. Lichtman, Amsterdam, N. Y. Non-refillable bottle. No. 1,136,880; Apr. 20; Gaz. vol. 213; p. 1073.
- Kosinski, Frank, Brooklyn, N. Y. Planting-machine. No. 1,163,831; Dec. 14; Gaz. vol. 221; p. 131.
- Kosiński, Stanislaw, Amsterdam, N. Y. Fountain-brush handle. No. 1,142,439; June 8; Gaz. vol. 215; p. 514.
- Kosiński, Walter A., Chicago, Ill. Slag removing and indicating mechanism for open-hearth furnaces. No. 1,133,975; Mar. 30; Gaz. vol. 212; p. 1617.
- Kosinsky, Frank, Brooklyn, N. Y. Lock. No. 1,134,141; Apr. 6; Gaz. vol. 213; p. 21.
- Koski, Andrew W., and T. Casey, Fitchburg, Mass. Safety locking device. No. 1,126,488; Jan. 26; Gaz. vol. 210; p. 1276.
- Kosnick, Charles, New York, N. Y. Electric-motor-starting rheostat. No. 1,164,291; Dec. 14; Gaz. vol. 221; p. 589.
- Kosofsky, Etta. (See Kosofsky, John A., assignor.)
- Kosofsky, John A., assignor, by mesne assignments, to E. Kosofsky, New York, N. Y. Fur-glaze and manufacturing same. No. 1,150,208; Aug. 17; Gaz. vol. 217; p. 781.
- Kosta, Emanuel, Monticello, Wis. Horse-releaser. No. 1,140,516; May 25; Gaz. vol. 214; p. 1093.
- Kostecki, Michael A., Hartford, Conn. Railway-brake. No. 1,141,125; June 1; Gaz. vol. 215; p. 12.
- Koster, Philipp, assignor to Dettwick-Fleischer Wassergas-Gesellschaft mit beschränkter Haftung, Frankfurt-on-the-Main, Germany. Production of gas from bituminous fuels in intermittent operation. No. 1,160,908; Nov. 16; Gaz. vol. 220; p. 966.
- Kostka, John, Indiana Harbor, Ind. Quick-action horse-shoe. No. 1,137,984; May 4; Gaz. vol. 214; p. 91.
- Kothe, Richard, Vohwinkel, near Elberfeld, and O. Dressel, Mülheim-on-the-Rhine, Germany, assignors to Synthetic Patents Co. Inc., New York, N. Y. Nitrosulfonylchlorides of ortho-oxycarboxylic acids and of their derivatives. No. 1,125,124; Jan. 19; Gaz. vol. 210; p. 754.
- Kothe, Richard, Vohwinkel, near Elberfeld, and O. Dressel, Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Azo dyes. No. 1,126,489; Jan. 26; Gaz. vol. 210; p. 1276.
- Kotila, Edward H., Frederick, S. D. Gate-operating means. No. 1,154,782; Sept. 28; Gaz. vol. 218; p. 947.
- Korkovsky, Benjamin, assignor to The Rapid Button-Attaching Machine Company, Incorporated, New York, N. Y. Button-attaching machine. No. 1,134,078; Mar. 30; Gaz. vol. 212; p. 1652.
- Korkovsky, Benjamin, assignor to Rapid Button Attaching Machine Co., New York, N. Y. Button magazine and feeding device. No. 1,145,774; July 6; Gaz. vol. 216; p. 280.
- Kotraba, Frank, Westchester, N. Y. Nut-lock. No. 1,150,770; Aug. 17; Gaz. vol. 217; p. 975.
- Küttgen, Walther. (See Anders, George L., assignor.)
- Koughan, John J. K., South Berkeley, Cal. Clamp for hoisting-ropes. No. 1,148,387; July 27; Gaz. vol. 216; p. 1265.
- Kourian, Jacob K., Danvers, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon blanks. No. 1,163,669; Dec. 14; Gaz. vol. 221; p. 370.
- Kovach, Stephen. (See Sziles and Kovach.)
- Kovacs, Charles. (See Czakajla, Peter, assignor.)
- Kovacs, John, Hollister, Ohio. Elevator safety device. No. 1,161,136; Nov. 23; Gaz. vol. 220; p. 1091.
- Kovacs, Joseph, and R. Blaho, Cleveland, Ohio. Receptacle for milk-bottles. No. 1,125,563; Jan. 19; Gaz. vol. 210; p. 911.
- Kovesy, Joseph A., New York, N. Y. Purse. No. 1,154,122; Sept. 21; Gaz. vol. 218; p. 692.
- Kowaleski, Edward, et al. (See Le Compte, Joseph H., assignor.)
- Kowalski, Thomas M. (See Spencer, Frederick W., assignor.)
- Kowalski, William, Chicago, Ill. Safety device for mining-cars. No. 1,159,050; Nov. 2; Gaz. vol. 220; p. 221.
- Koyen, Albert, and F. B. Snyder, Fremont, Neb. Decoy. No. 1,157,627; Oct. 19; Gaz. vol. 219; p. 857.
- Koyen, Wilfred, and O. C. Erickson, Detroit Harbor, Wis. Hen's nest. No. 1,141,346; June 1; Gaz. vol. 215; p. 92.
- Kozak, Mikotaj, Leavenworth, Kans. Foldable stretcher. No. 1,146,802; July 20; Gaz. vol. 216; p. 679.
- Kozek, Joseph, Avoca, Pa. Bandage-reel. No. 1,159,234; Nov. 2; Gaz. vol. 220; p. 287.
- Kozłowski, Martin, Greensburg, Pa. Shoe-clasp. No. 1,143,847; June 22; Gaz. vol. 215; p. 1062.
- Kozmowski, John L., Boston, Mass. Portable fire-extinguisher. No. 1,147,410; July 20; Gaz. vol. 216; p. 893.

Alphabetical list of patentees—Continued.

- Kozub, Louis J., Pittsburgh, Pa. Bearing. No. 1,156,695; Oct. 12; Gaz. vol. 219; p. 503.
- Kraczkoski, Frank, Denver, Colo. Window shade and curtain fixture. No. 1,128,611; Feb. 16; Gaz. vol. 211; p. 770.
- Kraeer, Oliver A., Bartlesville, Okla. Pump. No. 1,135,821; Apr. 13; Gaz. vol. 213; p. 658.
- Kraeer, Oliver A., Bartlesville, Okla. Deep-well pump. No. 1,165,105; Dec. 21; Gaz. vol. 221; p. 915.
- Kraemer, Edwin N., Cedarburg, Wis. Valve-spring remover. No. 1,147,804; July 27; Gaz. vol. 216; p. 1056.
- Kraft, Harry. (See Holderbaum and Kraft.)
- Kraft, Henry P. (See Schweinert and Kraft.)
- Kraft, Henry P., Ridgewood, N. Y. Air-valve for liquid-containing vessels. No. 1,159,687; Nov. 9; Gaz. vol. 220; p. 479.
- Kraft, Henry P., New York, N. Y., and M. C. Schweinert, West Hoboken, N. J. Cap for fountain-springs or the like. No. 1,146,430; July 13; Gaz. vol. 216; p. 529.
- Kraft, Henry P., Ridgewood, and M. C. Schweinert, West Hoboken, N. J. Detachable wheel-rim. No. 1,163,670; Dec. 14; Gaz. vol. 221; p. 371.
- Kraft, Henry P., Ridgewood, and P. W. Kantzman, West Hoboken, N. J., assignors to A. Schrader's Son Incorporated, Brooklyn, N. Y. Lock for pneumatic-tire rims. No. 1,137,868; May 4; Gaz. vol. 214; p. 50.
- Kraft, Leopold, *et al.* (See Ambrozzy, Eugene, assignor.)
- Kraz, Erik L. (See Caulkins, Theodore P., assignor.)
- Krazer, Charles L., Daisy, Tenn. Turpentine-cup support. No. 1,130,300; Mar. 2; Gaz. vol. 212; p. 159.
- Krah, Alexis, assignor to The English & Mersick Co., New Haven, Conn. Hinge for vehicle-doors. No. 1,142,584; June 8; Gaz. vol. 215; p. 564.
- Krakun, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Engine-tender platform. No. 1,144,713; June 29; Gaz. vol. 215; p. 1395.
- Krake, Hermann. (See Hühne and Krake.)
- Kraker, George M., assignor to Kraker Pen Co., Kansas City, Mo. Fountain-pen. No. 1,164,654; Dec. 21; Gaz. vol. 221; p. 756.
- Kraker, Joseph A., Warren, Ill. Lever-filler fountain-pen. No. 1,124,750; Jan. 12; Gaz. vol. 210; p. 587.
- Kraker Pen Co. (See Kraker, George M., assignor.)
- Krall, Richard H., Camden, N. J. Refrigerator. No. 1,148,784; Aug. 3; Gaz. vol. 217; p. 109.
- Kramaroff, Nathan, *et al.* (See Friedman, Bernard, assignor.)
- Kramaroff, Richard, *et al.* (See Friedman, Bernard, assignor.)
- Kramb, Charles H., San Diego, Cal. Puzzle. No. 1,140,600; May 25; Gaz. vol. 214; p. 1122.
- Kramer, Andrew A., Kansas City, Mo. Sheet-metal silo. No. 1,127,643; Feb. 9; Gaz. vol. 211; p. 380.
- Kramer, Benjamin G., Milwaukee, Wis. Engine-governor. No. 1,127,644; Feb. 9; Gaz. vol. 211; p. 381.
- Kramer, Benjamin G., Chicago, Ill. Hydrocarbon-engine governor. No. 1,127,645; Feb. 9; Gaz. vol. 211; p. 381.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Centrifugal governor. No. 1,130,177; Mar. 2; Gaz. vol. 212; p. 116.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Starting mechanism for high-compression engines. No. 1,131,387; Mar. 9; Gaz. vol. 212; p. 570.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Fuel-pulverizer for internal-combustion engines. No. 1,142,440; June 8; Gaz. vol. 215; p. 515.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Internal-combustion engine. No. 1,143,408; June 15; Gaz. vol. 215; p. 892.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Combined pump and emergency governor. No. 1,153,628; Sept. 14; Gaz. vol. 218; p. 486.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Controlling mechanism for internal-combustion engines. No. 1,153,629; Sept. 14; Gaz. vol. 218; p. 487.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Fuel-pump for internal-combustion engines. No. 1,158,061; Oct. 26; Gaz. vol. 219; p. 1075.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Pump mechanism for internal-combustion engines. No. 1,158,062; Oct. 26; Gaz. vol. 219; p. 1075.
- Krämer, Bernhard, Charlottenburg, Germany, assignor to General Electric Company. Controlling mechanism for fuel-pumps. No. 1,158,063; Oct. 26; Gaz. vol. 219; p. 1075.
- Kramer, Carl H., Berlin, Germany. Cover for sewing-machine tables. No. 1,131,713; Mar. 16; Gaz. vol. 212; p. 717.
- Krämer, Christian, and J. Krell, Frankfurt-on-the-Main, Germany, assignors, by mesne assignments, to General Electric Company. Alternating-current indicator. No. 1,128,008; Feb. 9; Gaz. vol. 211; p. 512.
- Kramer, Christoph A., Spokane, Wash. Party-line listening-in-detecting device. No. 1,130,522; Mar. 2; Gaz. vol. 212; p. 239.
- Kramer, Edward L., New York, N. Y. Device for computing the cost of engravings. No. 1,158,508; Nov. 2; Gaz. vol. 220; p. 35.
- Kramer, Emil M., Paxton, Ill. Internal-combustion-engine equipment. No. 1,129,405; Feb. 23; Gaz. vol. 211; p. 1085.
- Kramer, Emil M., Paxton, Ill. Skeleton harrow-disk. (Re-issue.) No. 13,885; Feb. 23; Gaz. vol. 211; p. 1233.
- Kramer, Emil M., Paxton, Ill. Internal-combustion engine. No. 1,134,684; Apr. 6; Gaz. vol. 213; p. 219.
- Kramer, Emil M., Paxton, Ill. Internal-combustion engine. No. 1,134,685; Apr. 6; Gaz. vol. 213; p. 220.
- Kramer, Emil M., Paxton, Ill. Internal-combustion-engine equipment. No. 1,164,199; Dec. 14; Gaz. vol. 221; p. 556.
- Kramer, Frank, Tiskalwa, Ill. Drag-harrow. No. 1,141,467; June 1; Gaz. vol. 215; p. 137.
- Kramer, Frank, Seattle, Wash. Sprinkler device for chimneys. No. 1,161,319; Nov. 23; Gaz. vol. 220; p. 1158.
- Kramer, George W., Peoria, Ill. Concrete-block-making machine. No. 1,164,726; Dec. 21; Gaz. vol. 221; p. 781.
- Kramer, Herman, New York, N. Y. Indicating device for motor-vehicles. No. 1,124,463; Jan. 12; Gaz. vol. 210; p. 484.
- Kramer, James H., assignor of one-half to A. W. Withers, Baltimore, Md. Fuel-oil burner. No. 1,160,515; Nov. 16; Gaz. vol. 220; p. 825.
- Kramer, Julius. (See Seng and Kalteck, assignors.)
- Kramer, Julius, and D. A. Brennan, assignors to Pullman Couch Company, Chicago, Ill. Convertible furniture. No. 1,145,248; July 6; Gaz. vol. 216; p. 96.
- Kramer, Phillip R., Bay City, Mich. Tree-felling machine. No. 1,125,346; Jan. 19; Gaz. vol. 210; p. 836.
- Kramer, Steven, Detroit, Mich. Flame-extinguishing device. No. 1,159,960; Nov. 9; Gaz. vol. 220; p. 579.
- Kramp, Victor, and M. Neuber, Toledo, Ohio. Sewing-lamp. No. 1,137,985; May 4; Gaz. vol. 214; p. 92.
- Kramsky, Edward. (See Kramsky Frank and E.)
- Kramsky, Frank and E., Chicago, Ill. Monoplane. No. 1,141,347; June 1; Gaz. vol. 215; p. 92.
- Kranich, Frank G. N., Newton, Iowa, assignor to The Maytag Company. Safety attachment for wringers. No. 1,136,241; Apr. 20; Gaz. vol. 213; p. 846.
- Kranich, Frank N. G., Laporte, Ind. Ensilage-cutter. No. 1,137,334; Apr. 27; Gaz. vol. 213; p. 1276.
- Kranich, Frank N. G., assignor to M. Rumely Co., Laporte, Ind. Corn-husker shredder. No. 1,142,181; June 8; Gaz. vol. 215; p. 422.
- Krannichfeldt, Johann, Cologne-Niehl, Germany. Producing perforated tubular electrodes for accumulators. No. 1,127,025; Feb. 2; Gaz. vol. 211; p. 128.
- Krannichfeldt, Johann, Cologne-Niehl, Germany. Machine for preparing the conducting-wires of electric light-bulbs. No. 1,147,516; July 20; Gaz. vol. 216; p. 929.
- Kranz, Jakob, Neucölln, near Berlin, Germany. Steam-trap. No. 1,123,316; Jan. 5; Gaz. vol. 210; p. 41.
- Kranz, Jakob, Neucölln, near Berlin, Germany. Back or shoulder rest. No. 1,123,317; Jan. 5; Gaz. vol. 210; p. 41.
- Kranz, William G., Sharon, Pa., assignor to The National Malleable Castings Company, Cleveland, Ohio. Preparing iron for castings. No. 1,132,661; Mar. 23; Gaz. vol. 212; p. 1112.
- Kränzlein, Georg, Sindlingen, near Höchst-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arylamino-anthraquinone dyestuffs. No. 1,139,540; May 18; Gaz. vol. 214; p. 713.
- Kränzlein, Georg, Lindlingen, near Höchst-on-the-Main, R. Hagenbach, Frankfurt-on-the-Main, and F. Giloy, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arylamino-anthraquinone dyestuffs and making same. No. 1,138,670; May 11; Gaz. vol. 214; p. 370.
- Krarup, Marius C., New York, N. Y. Aeroplane construction. No. 1,124,917; Jan. 12; Gaz. vol. 210; p. 646.
- Krarup, Marius C., New York, N. Y. Aeroplane. No. 1,129,874; Mar. 2; Gaz. vol. 212; p. 14.
- Krarup, Marius C., New York, N. Y. Tractor-wheel. No. 1,135,533; Apr. 13; Gaz. vol. 213; p. 556.
- Krarup, Marius C., New York, N. Y. Vehicle-spring. No. 1,137,145; Apr. 27; Gaz. vol. 213; p. 1206.
- Krasnodemski, John, Wausau, Wis. Extension-table. No. 1,140,466; May 25; Gaz. vol. 214; p. 1075.
- Kratky, Frank, New York, N. Y. Roller-skate. No. 1,127,900; Feb. 9; Gaz. vol. 211; p. 476.
- Kratky, Frank, New York, N. Y. Life-boat outrigger. No. 1,127,901; Feb. 9; Gaz. vol. 211; p. 476.
- Kratz, Franz, assignor to Firm of R. Bosch, Stuttgart, Germany. Reflector-lamp. No. 1,157,701; Oct. 26; Gaz. vol. 219; p. 949.
- Kratz, Franz, assignor to Firm of R. Bosch, Stuttgart, Germany. Switch for lighting installations. No. 1,164,727; Dec. 21; Gaz. vol. 221; p. 781.
- Kratz, Oscar, assignor to Hamilton Carhartt Manufacturer, Detroit, Mich. Overalls. No. 1,152,323; Aug. 31; Gaz. vol. 217; p. 1612.
- Kratz, Oscar E. (See Carhartt and Kratz.)

- Kratzer, Charles E., New Vienna, Ohio. Steering mechanism for automobile-headlights. No. 1,134,464; Apr. 6; Gaz. vol. 213; p. 139.
- Kraus, Charles A., Newton Highlands, and R. D. Malley, Lynn, Mass. Electrode for vapor electric apparatus. No. 1,147,026; July 20; Gaz. vol. 216; p. 758.
- Kraus, David. (See Embler, Harry B., assignor.)
- Kraus, Edward H., Rahway, N. J. Music-leaf turner. No. 1,132,358; Mar. 16; Gaz. vol. 212; p. 953.
- Kraus Engine Company. (See Kraus, Otto, assignor.)
- Kraus, James, Kimberly, Wis. Cable-rack. No. 1,133,976; Mar. 30; Gaz. vol. 212; p. 1617.
- Kraus, Joseph, Anaconda, Mont. Filter-mass washer. No. 1,139,776; May 18; Gaz. vol. 214; p. 796.
- Kraus, Otto, New York, N. Y. Internal combustion engine. No. 1,163,671; Dec. 14; Gaz. vol. 221; p. 371.
- Kraus, Otto, assignor to Kraus Engine Company, New York, N. Y. Apparatus for the production and utilization of working fluids. No. 1,151,366; Aug. 24; Gaz. vol. 217; p. 1235.
- Kraus, Rudolf, New York, N. Y. Link door-check. No. 1,127,454; Feb. 9; Gaz. vol. 211; p. 318.
- Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Eraser-tip for lead-pencils. No. 1,153,799; Sept. 14; Gaz. vol. 218; p. 546.
- Krause, Arthur E., Jersey City, N. J. Filter. No. 1,145,372; July 6; Gaz. vol. 216; p. 138.
- Krause, Daniel E., Sobieski, Wis. Bean cleaner and sorter. No. 1,146,174; July 13; Gaz. vol. 216; p. 440.
- Krause, Ernest, El Paso, Tex. Threshold. No. 1,139,195; May 11; Gaz. vol. 214; p. 558.
- Krause, Georg A., Munich, Germany. Desiccation. No. 1,166,225; Dec. 28; Gaz. vol. 221; p. 1349.
- Krause Manufacturing Co. (See Krause, Richard E., assignor.)
- Krause, Martin, Berlin, Germany. Heat-recorder. No. 1,152,645; Sept. 7; Gaz. vol. 218; p. 98.
- Krause, Oswald. (See Dietz, Charles, assignor.)
- Krause, Richard E., Cleveland, Ohio. Carbureter. No. 1,124,918; Jan. 12; Gaz. vol. 210; p. 647.
- Krause, Richard E., assignor to Krause Manufacturing Co., Detroit, Mich. Device for preheating hydrocarbons in carbureters. No. 1,135,195; Apr. 13; Gaz. vol. 213; p. 439.
- Krause, William F., Fond du Lac, Wis. Mechanical Christmas tree. No. 1,163,093; Dec. 7; Gaz. vol. 221; p. 125.
- Krauser, Hosea M., Norristown, Pa. Clothes-prop line-fastener. No. 1,149,923; Aug. 10; Gaz. vol. 217; p. 618.
- Krauss, Adolf, Cannstatt, assignor to FIRM of R. Bosch, Stuttgart, Germany. Electromagnetic regulator. No. 1,162,174; Nov. 30; Gaz. vol. 220; p. 1503.
- Krauss, Charles H., assignor to Morrison Frogless Switch Company, Birmingham, Ala. Frogless switch for railways. No. 1,132,779; Mar. 23; Gaz. vol. 212; p. 1156.
- Krauss, Friedrich, Munich, Germany. Gas-burner. No. 1,127,455; Feb. 9; Gaz. vol. 211; p. 318.
- Kraut, Anna, Chicago, Ill. Dish-washing device. No. 1,139,426; May 11; Gaz. vol. 214; p. 637.
- Kraut, Max, Bisbee, Ariz. Feeding mechanism. No. 1,162,291; Nov. 30; Gaz. vol. 220; p. 1543.
- Krauth, Albert, Hamilton, Ohio. Autographic register. No. 1,142,441; June 8; Gaz. vol. 215; p. 515.
- Krauth, Albert, Hamilton, Ohio. Manifolding-machine. No. 1,142,442; June 8; Gaz. vol. 215; p. 516.
- Krauth, Albert, Hamilton, Ohio. Autographic register. No. 1,144,551; June 29; Gaz. vol. 215; p. 1339.
- Krauth, Albert, assignor to Krauth & Benninghofen, Hamilton, Ohio. Printing-press. No. 1,132,191; Mar. 16; Gaz. vol. 212; p. 891.
- Krauth, Albert, assignor to Krauth & Benninghofen, Hamilton, Ohio. Autographic register. No. 1,154,032; Sept. 21; Gaz. vol. 218; p. 661.
- Krauth & Benninghofen. (See Krauth, Albert, assignor.)
- Krauth, Edward H., and E. Hamblin, Jr., Woodward, Okla. Combination carpenter-tool. No. 1,166,226; Dec. 28; Gaz. vol. 221; p. 1349.
- Krautisch, Max E., Appleton, Wis. Sewing-machine attachment. No. 1,158,937; Nov. 2; Gaz. vol. 220; p. 185.
- Krawczyk, Ignacy, Syracuse, N. Y. Folding fence. No. 1,147,409; July 20; Gaz. vol. 216; p. 893.
- Krayer, Stephen S., St. Louis, Mo. Gas-engine starter. No. 1,138,765; May 11; Gaz. vol. 214; p. 401.
- Krema, John F., Chicago, Ill. Vending-machine. No. 1,141,557; June 1; Gaz. vol. 215; p. 168.
- Kreibitz, Peter, Munich, Germany. assignor to Krebitz Process Company of America, Aurora, Ill. Apparatus for the manufacture of soap. No. 1,126,787; Feb. 2; Gaz. vol. 211; p. 44.
- Kreibitz Process Company of America. (See Krebitz, Peter, assignor.)
- Krebs, Amos B., Bolivar, Pa. Clothes-protector. No. 1,136,346; Apr. 20; Gaz. vol. 213; p. 883.
- Krebs, Charles E., assignor to Forsyth Brothers Company, Chicago, Ill. Vehicle-wheel. No. 1,156,486; Oct. 12; Gaz. vol. 219; p. 430.
- Krebs, Charles H., Milwaukee, Wis. Cleaning-machine. No. 1,129,875; Mar. 2; Gaz. vol. 212; p. 15.
- Krebs, Ferdinand, Pine Bluff, Ark. Separator for cotton-seed oil mills. No. 1,131,845; Mar. 16; Gaz. vol. 212; p. 768.
- Krebs, Georg O. (See Jakobsen and Krebs.)
- Krebs, George R., and J. W. Morgan, assignors of one-third to P. T. Board, Charleston, W. Va. Computing-scale. No. 1,148,099; July 27; Gaz. vol. 216; p. 1163.
- Krebs, George R., and J. W. Morgan, assignors of one-third to P. T. Board, Charleston, W. Va. Computing-scale. No. 1,148,100; July 27; Gaz. vol. 216; p. 1163.
- Krebs, Louis J., Coffeyville, Kans. Apparatus for drawing sheet-glass. No. 1,136,816; Apr. 20; Gaz. vol. 213; p. 1051.
- Krebs, Richard C., Chicago, Ill. Latch for drill-heads of handpieces of dental engines. No. 1,142,443; June 8; Gaz. vol. 215; p. 516.
- Krehbiel, John, assignor to The Salt's Textile Manufacturing Company, Bridgeport, Conn. The fabric and making the same. No. 1,150,947; Aug. 24; Gaz. vol. 217; p. 1095.
- Krehbiel, Solomon P. (See Goering and Krehbiel.)
- Kreider, Enos H., Lancaster, Pa. Shock absorber. No. 1,155,738; Oct. 5; Gaz. vol. 219; p. 144.
- Kreidl, Ignaz, Vienna, Austria-Hungary. Manufacturing opaquing agents for white enamel. No. 1,123,760; Jan. 5; Gaz. vol. 210; p. 193.
- Kreidl, Ignaz, Vienna, Austria-Hungary. Manufacture of white enamel, glass, and the like. No. 1,128,691; Feb. 16; Gaz. vol. 211; p. 797.
- Kreidl, Ignaz, Vienna, Austria-Hungary. White enamel and the like. No. 1,129,300; Feb. 23; Gaz. vol. 211; p. 1047.
- Kreidl, Ignaz, Vienna, Austria-Hungary. Opaquing agents for the production of white enamels. No. 1,150,772; Aug. 17; Gaz. vol. 217; p. 976.
- Kreipe, Theodore, Floral Park, N. Y. Safety device for power stamping-presses. No. 1,129,301; Feb. 23; Gaz. vol. 211; p. 1048.
- Krejci, Milo W. (See Klepinger, Krejci, and Kuzell.)
- Krell, August, Gonzales, Tex. Hinge. No. 1,165,518; Dec. 28; Gaz. vol. 221; p. 1097.
- Krell, Joseph. (See Kramer and Krell.)
- Kreller, Henry, et al. (See Kochler, Maximilian E., assignor.)
- Kremenz & Co. (See Kremenz and Kaelber, assignors.)
- Kremenz, Richard, and F. Kaelber, assignors to Kremenz & Co., Newark, N. J. Tie-clasp. No. 1,152,739; Sept. 7; Gaz. vol. 218; p. 132.
- Kremer, Franklin W., Carlstadt, N. J. Circular calendar-cutter. No. 1,130,909; Mar. 9; Gaz. vol. 212; p. 406.
- Kremer, Franklin W., Carlstadt, N. J. Auto tire-bead-wrapping machine. No. 1,132,359; Mar. 16; Gaz. vol. 212; p. 953.
- Kremer, Franklin W., Rutherford, N. J. Tube-vulcanizer. No. 1,158,509; Nov. 2; Gaz. vol. 220; p. 35.
- Kremer, George, assignor of one-half to E. Unger, New York, N. Y. Apparatus for curling hair. No. 1,164,101; Dec. 14; Gaz. vol. 221; p. 524.
- Kremer, George, assignor of one-half to E. Unger, New York, N. Y. Permanently waving hair. No. 1,164,102; Dec. 14; Gaz. vol. 221; p. 524.
- Kremer, Harry D., Rozeam, Mont. Sweat-band for hats. No. 1,155,936; Oct. 5; Gaz. vol. 219; p. 212.
- Kremer, John W. (See Lotz and Kremer.)
- Kremer, Robert W., assignor to Carlyn Manufacturing Company, East Cleveland, Ohio. Grease-gun. No. 1,165,883; Dec. 28; Gaz. vol. 221; p. 1225.
- Krenick, Charles A., Akron, Ohio. Fish-hook. No. 1,156,152; Oct. 12; Gaz. vol. 219; p. 314.
- Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
- Krentler-Pym Machine Company. (See Pym, Charles F., assignor.)
- Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Collapsible last. No. 1,139,040; May 11; Gaz. vol. 214; p. 503.
- Krentz, John and M., Westfield, Wis. Potato-sorter. No. 1,156,786; Oct. 12; Gaz. vol. 219; p. 533.
- Krentz, Martin. (See Krentz, John and M.)
- Krenz, Reinhold W., Toledo, Ohio. Garbage-incinerator. No. 1,155,492; Oct. 5; Gaz. vol. 219; p. 59.
- Krenzler, Emil, Barmen, Germany. Braiding-machine. No. 1,141,555; June 1; Gaz. vol. 215; p. 167.
- Kress, Claude W., New York, N. Y. Container construction. No. 1,134,540; Apr. 6; Gaz. vol. 213; p. 166.
- Kress, Frank E., Denver, Colo. Brush-making machine. No. 1,141,398; June 1; Gaz. vol. 215; p. 112.
- Kress, Jacob A., assignor to The Victor Specialty Company, Canton, Ohio. Weeder. No. 1,131,714; Mar. 16; Gaz. vol. 212; p. 717.
- Kress, John, New Rochelle, N. Y. Abrading-machine. No. 1,132,192; Mar. 16; Gaz. vol. 212; p. 892.
- Kress, Willits A., Coffeyville, Kans. Garbage and trash incinerator. No. 1,165,607; Dec. 28; Gaz. vol. 221; p. 1128.
- Kressel, Edward C. L., Camden, N. J., assignor to Wilckes, Martin, Wilckes Co., New York, N. Y. Baking preparation. No. 1,134,956; Apr. 6; Gaz. vol. 213; p. 311.
- Kreter, Friedrich W. O., San Antonio, Tex. Flushing device. No. 1,135,028; Apr. 13; Gaz. vol. 213; p. 382.
- Kreutzberg, Otto A., Lake Bluff, Ill. Volumetric air-meter. No. 1,150,866; Aug. 24; Gaz. vol. 217; p. 1068.
- Krichbaum, Guy A., Ashland, Ohio. Inner tire. No. 1,137,064; Apr. 27; Gaz. vol. 213; p. 1177.
- Krieg, Alfred. (See Greer and Krieg.)

Alphabetical list of patentees—Continued.

- Krieger, Curt, Louisville, Ky. Hair-drying comb. No. 1,145,492; July 6; Gaz. vol. 216; p. 181.
- Krieger, Gustav A., Rockford, Ill. Sanitary barrel. No. 1,150,209; Aug. 17; Gaz. vol. 217; p. 781.
- Krieger, Walter F., Milwaukee, Wis. Automatic regulator for refrigerating machines. No. 1,135,196; Apr. 13; Gaz. vol. 213; p. 439.
- Kriegsheim, Heinrich, assignor to The Permutit Company, New York, N. Y. Manufacture of oxygen. No. 1,153,502; Sept. 14; Gaz. vol. 218; p. 442.
- Kries, Lawrence F., Baltimore, Md. Electric switch. No. 1,126,788; Feb. 2; Gaz. vol. 211; p. 44.
- Krippendorf, Charles H. (See Fowler, William, assignor.)
- Krippendorf, Calculator Company. (See Krippendorf, Paul F. W. C., assignor.)
- Krippendorf, Calculator Company, Portland, Me. Computing device. No. 1,142,182; June 8; Gaz. vol. 215; p. 422.
- Kristek, Emmerich H., North Grosvenor Dale, Conn., assignor to Draper Company, Hopedale, Mass. Builermotion. No. 1,139,877; May 18; Gaz. vol. 214; p. 832.
- Kristofek, Frank J., assignor to Brown and Bigelow, St. Paul, Minn. Bill-ble. No. 1,140,750; May 25; Gaz. vol. 214; p. 1172.
- Kristofferson, Charles L., Indianapolis, Ind. Rail-joint. No. 1,124,919; Jan. 12; Gaz. vol. 210; p. 647.
- Krit-Seal Company. (See Crittenden, Richard F., assignor.)
- Kritzner, Otto F., Niles, Mich. Sanitary drinking-fountain and faucet. No. 1,161,054; Nov. 23; Gaz. vol. 220; p. 1062.
- Kriz Specialty Company, The. (See Kriz, William, assignor.)
- Kriz, William, assignor to The Kriz Specialty Company, St. Louis, Mo. Alarm-sounding knob for door-locks. No. 1,145,201; July 6; Gaz. vol. 216; p. 79.
- Krmaschek, Raimund A. (See Uhelaker and Krmaschek.)
- Krna, Stephen, Binghamton, N. Y. Foldable ambulance. No. 1,128,333; Feb. 16; Gaz. vol. 211; p. 675.
- Krna, Stephen, and P. Turzik, Binghamton, N. Y. Automatic gate for railway-crossings. No. 1,140,168; May 18; Gaz. vol. 214; p. 935.
- Kroboth, Frank J., New York, N. Y. Device for removing snow, ice, and sleet from channels and channel-rails of underground railways. No. 1,130,523; Mar. 2; Gaz. vol. 212; p. 240.
- Krocker, Adolf G., Waco, Tex. Ice-breaking machine. No. 1,133,863; Mar. 30; Gaz. vol. 212; p. 1583.
- Kroedel, Robert. (See Riddell and Kroedel.)
- Kroedel, Robert, and C. F. Spidel, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic-camera back. No. 1,144,140; June 22; Gaz. vol. 215; p. 1170.
- Kroegher, Wilhelm C., Bellevue, Pa. Car truck and brake mechanism. No. 1,148,026; July 27; Gaz. vol. 216; p. 1135.
- Kroeger, William C., Bellevue, Pa. Power-transmission device. No. 1,161,055; Nov. 23; Gaz. vol. 220; p. 1063.
- Kroehler, Peter E., Naperville, Ill. Folding-seatavenport. No. 1,145,071; July 6; Gaz. vol. 216; p. 35.
- Kroehler, Peter E., Naperville, Ill. Table-bed, &c. No. 1,158,240; Oct. 26; Gaz. vol. 219; p. 1137.
- Kroenert, A. J. (See Bodenhoff, George O., assignor.)
- Kroeze, John W., Burlingame, Cal. Sanding-machine. No. 1,134,085; Mar. 30; Gaz. vol. 212; p. 1655.
- Kroger, Fred H., Brooklyn, N. Y., assignor, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Spark-gap. No. 1,132,589; Mar. 23; Gaz. vol. 212; p. 1085.
- Krogh, Ferdinand W., San Francisco, Cal. Turbine-pump. No. 1,135,296; Apr. 13; Gaz. vol. 213; p. 473.
- Krogh, Ferdinand W., San Francisco, Cal. Centrifugal pump. No. 1,141,556; June 1; Gaz. vol. 215; p. 167.
- Krogh, Ferdinand W., San Francisco, Cal. Balancing means for centrifugal pumps. No. 1,146,078; July 13; Gaz. vol. 216; p. 406.
- Krogh, Ferdinand W., San Francisco, Cal. Horizontal turbine-pump. No. 1,146,079; July 13; Gaz. vol. 216; p. 406.
- Krogh, Ferdinand W., San Francisco, Cal. Balanced centrifugal pump. No. 1,153,321; Sept. 14; Gaz. vol. 218; p. 375.
- Krogh, Ferdinand W., San Francisco, Cal. Oiling device for vertical shafts. No. 1,159,504; Nov. 9; Gaz. vol. 220; p. 414.
- Krogh, Ferdinand W., San Francisco, Cal. Centrifugal pump. No. 1,163,242; Dec. 7; Gaz. vol. 221; p. 178.
- Krogh, Ferdinand W., San Francisco, Cal. Turbine-pump. No. 1,163,243; Dec. 7; Gaz. vol. 221; p. 178.
- Krogh, Ferdinand W., San Francisco, Cal. Davit-fall attachment. No. 1,165,183; Dec. 21; Gaz. vol. 221; p. 943.
- Krogmoe, Hans, Turtle Lake, N. D. Tractor-wheel. No. 1,128,988; Feb. 16; Gaz. vol. 211; p. 903.
- Krogstad, Carl B., Prindle, Wash. Garden-tool. No. 1,147,027; July 20; Gaz. vol. 216; p. 759.
- Kroh, Philip H. (See Hopwood and Kroh.)
- Kroh, Rollie G. (See Dunn and Kroh.)
- Krohn, Gustave A., Coarsegold, Cal. Internal-combustion engine. No. 1,156,298; Oct. 12; Gaz. vol. 219; p. 361.
- Krohn, Julius J., Arcata, and F. J. Davis, Oakland, Cal. Stave-sander. No. 1,136,146; Apr. 20; Gaz. vol. 213; p. 812.
- Krohn, Nels, assignor to The Adams & Westlake Company, Chicago, Ill. Faucet. No. 1,125,564; Jan. 19; Gaz. vol. 210; p. 912.
- Krolkowski, Julian, Chicago, Ill. Fence. No. 1,130,089; Mar. 2; Gaz. vol. 212; p. 86.
- Kroll, Joseph, Brooklyn, N. Y. Combined match container and lighter. No. 1,124,146; Jan. 5; Gaz. vol. 210; p. 322.
- Krom, Stephen A., Birmingham, Ala. Sintering apparatus. No. 1,125,125; Jan. 19; Gaz. vol. 210; p. 755.
- Kromer, John C., Elgin, Ill. Starting, stopping, and power-controlling clutch combination. No. 1,123,695; Jan. 19; Gaz. vol. 210; p. 960.
- Kron, John L., Kittanning, Pa. Handle for satchels and the like. No. 1,134,871; Apr. 6; Gaz. vol. 213; p. 283.
- Krone, Harry H., M. Rubinstein and J. Rubinstein, Chicago, Ill. Glass-washer. No. 1,134,957; Apr. 6; Gaz. vol. 213; p. 311.
- Krone, William F., St. Louis, Mo. Envelop. No. 1,150,524; Aug. 17; Gaz. vol. 217; p. 890.
- Kronenberg, Rudolf, Ohliges, Germany. Vehicle-wheel. No. 1,156,153; Oct. 12; Gaz. vol. 219; p. 314.
- Kronfeld, Maxim, New York, N. Y. Bread-slicing machine. No. 1,132,360; Mar. 16; Gaz. vol. 212; p. 954.
- Krönlein, Gustav. (See Schmidt and Krönlein.)
- Krönlein, Gustav. (See Schmidt, Krönlein, and Runne.)
- Kronquest, Alfred L., Chicago, Ill., assignor, by mesne assignments, to Continental Can Company, Inc. Can-end-feeding device. No. 1,148,175; July 27; Gaz. vol. 216; p. 1190.
- Kronthal, Benjamin, Chicago, Ill. Reinforced shirt. No. 1,158,938; Nov. 2; Gaz. vol. 220; p. 185.
- Kropp, John A., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Sender. No. 1,124,751; Jan. 12; Gaz. vol. 210; p. 587.
- Kropp, Otto, West Hoboken, N. J. Device for signaling to and automatically stopping running trains. No. 1,151,194; Aug. 24; Gaz. vol. 217; p. 1179.
- Kropp, Otto, West Hoboken, N. J. Signaling and train-stopping device. No. 1,151,195; Aug. 24; Gaz. vol. 217; p. 1180.
- Kropp, Walter, Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Aminosubstituted arylpyrazolon. No. 1,161,885; Aug. 31; Gaz. vol. 217; p. 1463.
- Krotz, Alvaro S., Janesville, Wis. Rubber tire. No. 1,152,324; Aug. 31; Gaz. vol. 217; p. 1613.
- Krotz, Alvaro S., assignor to The Janesville Machine Company, Janesville, Wis. Cultivator or other vehicle having manually-controlled steering-wheels. No. 1,162,077; Nov. 30; Gaz. vol. 220; p. 1469.
- Krout, Blaine W. R., et al. (See Ritchie, Frank, assignor.)
- Krovetz, Joseph, Elmira, N. Y. Temperature device. No. 1,123,556; Jan. 5; Gaz. vol. 210; p. 122.
- Kruck, Ervin J., New York, N. Y. Note-sheet-guiding device. No. 1,141,966; June 8; Gaz. vol. 215; p. 344.
- Kruck, Walter A., New York, N. Y. Pneumatic piano-player action. No. 1,153,554; Sept. 14; Gaz. vol. 218; p. 462.
- Krueger, Carl R., Schenectady, N. Y., assignor to General Electric Company, Electrode. No. 1,156,696; Oct. 12; Gaz. vol. 219; p. 503.
- Krueger, Ernest, Milwaukee, Wis. Sand-bar for molders' flasks. No. 1,155,075; Sept. 28; Gaz. vol. 218; p. 1046.
- Krueger, Frank G., et al. (See Marker, Henry H., assignor.)
- Krueger, Henry E. (See Schloemer and Krueger.)
- Krueger, Joseph W. (See Pruett, William M., assignor.)
- Kruehling, Paul, Maher, Colo. Brake-block holder. No. 1,134,872; Apr. 6; Gaz. vol. 213; p. 283.
- Krug, Carl, Frankfort-on-the-Main, Mainkur, Germany. Abrading-disk. No. 1,139,541; May 18; Gaz. vol. 214; p. 713.
- Krug, William H., Fond du Lac, Wis. Nail-holder for horseshoe-nails. No. 1,127,646; Feb. 9; Gaz. vol. 211; p. 382.
- Krüger, Ernst A., Seehausen, Altmark, Germany. Producing tungsten filaments. No. 1,154,701; Sept. 28; Gaz. vol. 218; p. 920.
- Kruger, Harry B. (See Stranders, Julien, assignor.)
- Kruger, Samuel, New York, N. Y. Safety spool-holder for sewing-machines. No. 1,142,183; June 8; Gaz. vol. 215; p. 423.
- Krum, Charles L., assignor to Morkrum Company, Chicago, Ill. Printing-telegraph apparatus. No. 1,137,146; Apr. 27; Gaz. vol. 213; p. 1207.
- Krum, Edwin M., et al. (See Way, David R., assignor.)
- Krumbein, Elmer E., Womelsdorf, Pa. Dirigible light. No. 1,132,292; Mar. 30; Gaz. vol. 212; p. 1377.
- Krumm, August, et al. (See Swartwood, George, assignor.)
- Krumm, David F., Hallandale, Fla. Agricultural implement. No. 1,127,781; Feb. 9; Gaz. vol. 211; p. 432.
- Krumm, John E., Turbotville, Pa. Device for fastening teeth in cylinders and concaves of grain and seed threshers. No. 1,148,900; Aug. 3; Gaz. vol. 217; p. 151.

- Krummel, Louis C., Clinton, Conn., assignor to Continental Machine Company, Syracuse, N. Y. Multiple doubler. No. 1,151,478; Aug. 24; Gaz. vol. 217; p. 1273.
- Krumming, Reinhold, Milwaukee, Wis. Temporary binder or loose-sheet holder. No. 1,125,126; Jan. 19; Gaz. vol. 210; p. 755.
- Krumming, Reinhold, Milwaukee, Wis. Temporary binder or loose-leaf book. No. 1,126,490; Jan. 26; Gaz. vol. 210; p. 1276.
- Krumming, Reinhold, Milwaukee, Wis. Temporary binder or loose-sheet holder. No. 1,129,105; Feb. 23; Gaz. vol. 211; p. 980.
- Krumming Reinhold, Milwaukee, Wis. Temporary binder or loose-sheet holder. No. 1,136,017; Apr. 20; Gaz. vol. 213; p. 768.
- Krumming, Reinhold, Milwaukee, Wis. Sectional-post binder. No. 1,143,716; June 22; Gaz. vol. 215; p. 1020.
- Krumpelmann, Laurens Lyons, Iowa. Bicycle seat-supporter. No. 1,145,493; July 6; Gaz. vol. 216; p. 181.
- Krumpholtz, Camillus, and E. Paue, Vienna, Austria-Hungary. Worm-gearing. No. 1,164,200; Dec. 14; Gaz. vol. 221; p. 557.
- Krupicka, Louis F., Niobrara, Nebr. Hat-pin-point protector. No. 1,143,838; June 22; Gaz. vol. 215; p. 1062.
- Krupp, Abram W. (See Harper and Krupp.)
- Krupp, Leo A., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Apron-wheel. No. 1,148,518; Aug. 3; Gaz. vol. 217; p. 12.
- Krupp, Smith F., Atlanta, Ga. Spacing-block. No. 1,125,565; Jan. 19; Gaz. vol. 210; p. 912.
- Kruse, August M., assignor to The American Steel Package Company, Defiance, Ohio. Shipping-case. No. 1,164,364; Dec. 14; Gaz. vol. 221; p. 616.
- Kruse, Charles J., Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,128,692; Feb. 16; Gaz. vol. 211; p. 797.
- Kruse, Emil, Langerfeld, Germany. Machine for dyeing, bleaching, washing, scouring, and subjecting to like processes hanks of yarn. No. 1,150,683; Aug. 17; Gaz. vol. 217; p. 947.
- Kruse, Ferdinand W. (See Porter, John W., assignor.)
- Kruse, John. (See Blum and Kruse.)
- Kruse, Martinez C., Bridgeport, Conn. Water-heater. No. 1,126,230; Jan. 26; Gaz. vol. 210; p. 1186.
- Kruse, Peter, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can-body-making machine. No. 1,129,302; Feb. 23; Gaz. vol. 211; p. 1048.
- Kruse, Peter, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Feed mechanism for can-heads. No. 1,133,383; Mar. 30; Gaz. vol. 212; p. 1409.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Flanging device for sheet-metal blanks. No. 1,135,534; Apr. 13; Gaz. vol. 213; p. 556.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Double-seaming machine. No. 1,143,976; June 22; Gaz. vol. 215; p. 1110.
- Kruse, Peter, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for seaming heads on cans. No. 1,152,188; Aug. 31; Gaz. vol. 217; p. 1566.
- Kruse, Peter, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Feeding means for sheets. No. 1,153,434; Sept. 14; Gaz. vol. 218; p. 418.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for seaming can-tops. No. 1,164,103; Dec. 14; Gaz. vol. 221; p. 525.
- Krusoff, Charles, Detroit, Mich. Clothes-spray. No. 1,158,241; Oct. 26; Gaz. vol. 219; p. 1138.
- Krutsch, Willis W., assignor of one-half to C. A. Walker, Coffeyville, Kans. Resilient wheel. No. 1,162,078; Nov. 30; Gaz. vol. 220; p. 1469.
- Krutsch, Willis W., assignor of one-half to C. A. Walker, Coffeyville, Kans. Vehicle-wheel. No. 1,162,079; Nov. 30; Gaz. vol. 220; p. 1470.
- Krutsch, Willis W., assignor of one-half to C. A. Walker, Coffeyville, Kans. Vehicle-wheel. No. 1,162,080; Nov. 30; Gaz. vol. 220; p. 1470.
- Kruzick, John, Winamac, Ind. Silo-mold. No. 1,154,783; Sept. 28; Gaz. vol. 218; p. 947.
- Kryczka, Jacenty, Pellston, Mich. Mail-box. No. 1,147,953; July 27; Gaz. vol. 216; p. 1109.
- Kryptok Company. (See Morine, Edwin C., assignor.)
- Kryptok Company. (See Quimby, Clarence E., assignor.)
- Kryptok Company. (See Vornholt, Edward A., assignor.)
- Kube, Frederick E., Clinton, Iowa. Engine-cooling system. No. 1,140,987; May 25; Gaz. vol. 214; p. 1257.
- Kubierschky, Konrad, Pisenach, Germany. Apparatus for separating liquid mixtures into two components. No. 1,151,801; Aug. 31; Gaz. vol. 217; p. 1433.
- Kubitz, William P., and C. Schmidborn, St. Louis, Mo.; said Kubitz assignor to said Schmidborn. Speed-adjuster for motion-picture machines. No. 1,128,460; Feb. 16; Gaz. vol. 211; p. 718.
- Kübler, Carl F., Wilmersdorf, Germany. Opening out plants or loosening their fibers. No. 1,131,715; Mar. 16; Gaz. vol. 212; p. 718.
- Kučerá, John N., Cedar Rapids, Iowa. Hydrocarbon soldering instrument. No. 1,127,026; Feb. 2; Gaz. vol. 211; p. 129.
- Kucharski, Stanislaus, Waldmannslust, near Berlin, Germany. Apparatus for intermittently moving forward the picture-film for cinematographs or the like. No. 1,143,977; June 22; Gaz. vol. 215; p. 1110.
- Kuczor, Alexander, assignor of one-third to A. Kurucz, Cudahy, Wis. Window-screen. No. 1,125,127; Jan. 19; Gaz. vol. 210; p. 756.
- Kuczor, Alexander, assignor of one-third to A. Kurucz, Cudahy, Wis. Screen for windows. No. 1,125,128; Jan. 19; Gaz. vol. 210; p. 756.
- Kuderer, Charles, Pittsburgh, Pa. Guard for lubricating devices. No. 1,157,311; Oct. 19; Gaz. vol. 219; p. 750.
- Kuebler, Effie C., Chicago, Ill. Garment-shield. No. 1,136,242; Apr. 20; Gaz. vol. 213; p. 847.
- Kuehl, William J. A., Chicago, Ill. Receptacle. No. 1,126,789; Feb. 2; Gaz. vol. 211; p. 45.
- Kuehn, Alfred, Milwaukee, Wis. Spring-mounting for bicycle-wheels. No. 1,130,828; Mar. 9; Gaz. vol. 212; p. 378.
- Kuehn, Charles P., assignor to A. Stein & Company, Chicago, Ill. Means for holding the ends of fabric strips. No. 1,128,334; Feb. 16; Gaz. vol. 211; p. 676.
- Kuehn, Charles P., assignor to A. Stein & Company, Chicago, Ill. Garment-supporter loop. No. 1,162,081; Nov. 30; Gaz. vol. 220; p. 1470.
- Kuehn, Paul M., assignor to The Bartlett Hayward Company, Baltimore, Md. Shaking-screen. No. 1,159,317; Nov. 2; Gaz. vol. 220; p. 316.
- Kuehn, Paul M., assignor to The Bartlett Hayward Company, Baltimore, Md. Screening apparatus. No. 1,159,318; Nov. 2; Gaz. vol. 220; p. 316.
- Kuehne, George, Chicago, Ill. Baffle for water-tube boilers. No. 1,135,535; Apr. 13; Gaz. vol. 213; p. 557.
- Kuehne, Oscar C. (See Voigt and Kuehne.)
- Kuehne, William E., Ripon, Cal. Auxiliary plow. No. 1,128,461; Feb. 16; Gaz. vol. 211; p. 718.
- Kuekes, Otto, Pittsburgh, Pa. Cooking-stove. No. 1,123,318; Jan. 5; Gaz. vol. 210; p. 41.
- Kuenhold, Otto J., Cleveland, Ohio. Gas-furnace. No. 1,161,776; Nov. 23; Gaz. vol. 220; p. 1315.
- Kuenz, Joseph A., Toledo, Ohio. Radiator. No. 1,137,335; Apr. 27; Gaz. vol. 213; p. 1276.
- Kuenzli, Henry L., Nevada, Ohio. Water-filter. No. 1,136,538; Apr. 20; Gaz. vol. 213; p. 952.
- Kugel, Joseph, Cincinnati, Ohio. Glass-cleaner. No. 1,142,716; June 8; Gaz. vol. 215; p. 606.
- Kugler, Albert J. (See Godefroy and Kugler.)
- Kugler, Herbert W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Reclaiming rubber. No. 1,124,920; Jan. 12; Gaz. vol. 210; p. 647.
- Kuhajda, Joseph, New York, N. Y. Shock-absorber for aeroplane-landing. No. 1,161,391; Nov. 23; Gaz. vol. 220; p. 1184.
- Kuhl, Philip C., assignor of one-half to F. M. Ginther, Medicine Hat, Alberta, Canada. Grain-shocker. No. 1,134,465; Apr. 6; Gaz. vol. 213; p. 139.
- Kuhles, Friedrich, Maywood, N. J. Non-refillable bottle. No. 1,157,164; Oct. 19; Gaz. vol. 219; p. 697.
- Kuhke, M. D. (See Hanawalt, Daniel R., assignor.)
- Kuhke, Martin D., Akron, Ohio. Core-retaining device. No. 1,140,045; May 18; Gaz. vol. 214; p. 892.
- Kuhlman, Henry J., Colesburg, assignor to J. W. Holscher, Earlville, Iowa. Cultivator. No. 1,123,761; Jan. 5; Gaz. vol. 210; p. 193.
- Kuhmarker, David, New York, N. Y. Wrapping-paper pad. No. 1,153,503; Sept. 14; Gaz. vol. 218; p. 442.
- Kuhn, Frank. (See Shailor, Frank E., assignor.)
- Kuhn, Frank, Detroit, Mich. Electric vaporizer. No. 1,125,028; Jan. 12; Gaz. vol. 210; p. 685.
- Kuhn, Frank, Detroit, Mich. Thermostatic electric switch. No. 1,130,985; Mar. 9; Gaz. vol. 212; p. 432.
- Kuhn, Frank, Detroit, Mich. Air-heater. No. 1,130,986; Mar. 9; Gaz. vol. 212; p. 432.
- Kuhn, Frank, Detroit, Mich. Electrical heater. No. 1,130,987; Mar. 9; Gaz. vol. 212; p. 433.
- Kuhn, Frank, Detroit, Mich. Electrically-heated oven. No. 1,154,416; Sept. 21; Gaz. vol. 218; p. 793.
- Kuhn, Frank, Detroit, Mich. Electrical heater. No. 1,154,417; Sept. 21; Gaz. vol. 218; p. 794.
- Kuhn, Frank, and F. E. Shailor, Detroit, Mich.; said Shailor assignor to said Kuhn. Fount for percutors. No. 1,136,018; Apr. 20; Gaz. vol. 213; p. 768.
- Kuhn, Frank, and F. E. Shailor, Detroit, Mich.; said Shailor assignor to said Kuhn. Electric heater. No. 1,154,410; Sept. 21; Gaz. vol. 218; p. 792.
- Kuhn, Frank, and F. E. Shailor, Detroit, Mich.; said Shailor assignor to said Kuhn. Electric heater. No. 1,154,411; Sept. 21; Gaz. vol. 218; p. 792.
- Kuhn, Frank, and F. E. Shailor, Detroit, Mich.; said Shailor assignor to said Kuhn. Electrical heater. No. 1,154,412; Sept. 21; Gaz. vol. 218; p. 792.
- Kuhn, Frank, and F. E. Shailor, Detroit, Mich.; said Shailor assignor to said Kuhn. Electrically-heated soldering-iron. No. 1,154,414; Sept. 21; Gaz. vol. 218; p. 793.
- Kuhn, Frank, and F. E. Shailor, Detroit, Mich.; said Shailor assignor to said Kuhn. Handle and terminal connection for electrically-heated instruments. No. 1,154,415; Sept. 21; Gaz. vol. 218; p. 793.

Alphabetical list of patentees—Continued.

- Kuhn, Frank, and F. E. Shailor, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heating unit. No. 1,154,409; Sept. 21; Gaz. vol. 218; p. 791.
- Kuhn, Frank, and F. E. Shailor, assignors to American Electrical Heater Company, Detroit, Mich. Connector for electrically-heated instruments. No. 1,154,413; Sept. 21; Gaz. vol. 218; p. 792.
- Kuhn, Frank, and F. E. Shailor, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated cooking utensil. No. 1,154,418; Sept. 21; Gaz. vol. 218; p. 794.
- Kuhn, Harry A., and W. W. Macfarren, Pittsburgh, Pa.; said Macfarren assignor to said Kuhn. Mining-machine. No. 1,148,973; Aug. 3; Gaz. vol. 217; p. 173.
- Kuhn, Harry A., and W. W. Macfarren, Pittsburgh, Pa.; said Macfarren assignor to said Kuhn. Mining-machine. No. 1,148,974; Aug. 3; Gaz. vol. 217; p. 173.
- Kuhn, Harry A., and W. W. Macfarren, Pittsburgh, Pa.; said Macfarren assignor to said Kuhn. Mining-machine. No. 1,148,975; Aug. 3; Gaz. vol. 217; p. 174.
- Kuhn, Harry A., and W. W. Macfarren, Pittsburgh, Pa.; said Macfarren assignor to said Kuhn. Mining-machine. No. 1,148,976; Aug. 3; Gaz. vol. 217; p. 174.
- Kuhn, Harry S., Waynesboro, Pa. Pipe-vise. No. 1,150,040; Aug. 17; Gaz. vol. 217; p. 720.
- Kuhn, Harry S., Waynesboro, Pa. Vise. No. 1,150,041; Aug. 17; Gaz. vol. 217; p. 721.
- Kuhn, Harry S., Waynesboro, Pa. Vise screw and handle. No. 1,150,042; Aug. 17; Gaz. vol. 217; p. 721.
- Kuhn, Robert B., Canton, Ohio. Tank. No. 1,157,643; Oct. 19; Gaz. vol. 219; p. 862.
- Kuhner, Herman E., deceased, Oxford, Md.; R. L. Kuhner, executrix. Locking-valve. No. 1,131,065; Mar. 9; Gaz. vol. 212; p. 459.
- Kuhner, Rose L., executrix. (See Kuhner, Herman E.)
- Kuhnert, Louis C., Jr. (See Brooke, Thomas P., assignor.)
- Kuhnbenn, Henry, Avoca, Neb. Gate-latch. No. 1,164,365; Dec. 14; Gaz. vol. 221; p. 646.
- Kuhnke, Emil, Leverkusen, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Evaporating apparatus. No. 1,126,491; Jan. 26; Gaz. vol. 210; p. 1277.
- Kuhnle, Christian. (See Grant, Patrick M., assignor.)
- Kuhns, Howard F., Fullerton, Pa. Operating mechanism. No. 1,133,728; Mar. 30; Gaz. vol. 212; p. 1534.
- Kuhns, John H., Germantown, Ohio. Wheel-tread fender. No. 1,156,604; Oct. 12; Gaz. vol. 219; p. 470.
- Kuhns, John H., assignor to The Edward Ford Plate Glass Company, Toledo, Ohio. Runner control for glass-grinding machines. No. 1,151,802; Aug. 31; Gaz. vol. 217; p. 1433.
- Kukosz, Ignacy, Carnegie, Pa. Fence-post. No. 1,129,350; Feb. 23; Gaz. vol. 211; p. 1064.
- Kukta, Steve, Chichester, N. Y. Keyless lock. No. 1,125,696; Jan. 19; Gaz. vol. 210; p. 961.
- Kulhawy, Ferdinand, Philadelphia, Pa. Revolving-hook mechanism. No. 1,152,740; Sept. 7; Gaz. vol. 218; p. 132.
- Kulisch, Richard J., Adams, Ill. Disk attachment for plows. No. 1,162,934; Dec. 7; Gaz. vol. 221; p. 69.
- Kull, Albert L., New Rochelle, assignor to Double Seal Tire Valve Co., New York, N. Y. Tire-valve. No. 1,133,042; Mar. 23; Gaz. vol. 212; p. 1254.
- Kullman, Salz & Co., et al. (See Gerlich, Oliver, assignor.)
- Kullmer, Charles J., Syracuse, N. Y. Astronomical appliance. No. 1,126,231; Jan. 26; Gaz. vol. 210; p. 1186.
- Kulow, John H., Buffalo, N. Y. Pen-rack. No. 1,163,672; Dec. 14; Gaz. vol. 221; p. 372.
- Kulper, William, Waterloo, Iowa. Goods holding and computing apparatus. No. 1,153,504; Sept. 14; Gaz. vol. 218; p. 443.
- Kummer, Charles J., Sheboygan, Wis. Chair-seat-scooping machine. No. 1,151,276; Aug. 24; Gaz. vol. 217; p. 1207.
- Kummer, Max, Herrnhut, Germany. Document-file. No. 1,137,765; May 4; Gaz. vol. 214; p. 15.
- Kumpen, Henry, Binghamton, N. Y. Trousers-stretcher. No. 1,124,921; Jan. 12; Gaz. vol. 210; p. 648.
- Kunda, George P., Centerville, Iowa. Track structure. No. 1,162,082; Nov. 30; Gaz. vol. 220; p. 1470.
- Kunert, Felix, and E. Acker, Offenbach-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Producing dyestuffs on the fiber by means of the one-bath method. No. 1,127,027; Feb. 23; Gaz. vol. 211; p. 129.
- Kunik, Michael, Chicago, Ill. Plow. No. 1,130,524; Mar. 2; Gaz. vol. 212; p. 240.
- Kunik, Michael, Chicago, Ill. Plow. No. 1,149,371; Aug. 10; Gaz. vol. 217; p. 419.
- Kunik, Michael, Chicago, Ill. Fender for ships. No. 1,156,086; Oct. 12; Gaz. vol. 219; p. 291.
- Kunitz, Benjamin, New York, assignor to American Plaster-Drill Co., Inc., Brooklyn, N. Y. Drill. No. 1,140,988; May 25; Gaz. vol. 214; p. 1257.
- Kunkel, Fred R., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,123,319; Jan. 5; Gaz. vol. 210; p. 42.
- Kunkel, Fred R., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-bearing. No. 1,166,134; Dec. 28; Gaz. vol. 221; p. 1314.
- Kunkel, Frederick J., Baltimore, Md. Dumping-wagon. No. 1,155,739; Oct. 5; Gaz. vol. 219; p. 144.
- Kunkel, Otto. (See Huebner and Kunkel.)
- Kunkel, William F., Milwaukee, Wis. Spring bed-bottom. No. 1,150,867; Aug. 24; Gaz. vol. 217; p. 1068.
- Kunkle, Harry C., assignor of one-fourth to O. J. Metzger, one-fourth to C. W. Metzger, and one-fourth to C. B. Slutz, Canton, Ohio. Off-bearing machine for brick-making. No. 1,129,208; Feb. 23; Gaz. vol. 211; p. 1015.
- Kunkle, John L., McCoyville, Pa. Cow-tail holder. No. 1,131,527; Mar. 9; Gaz. vol. 212; p. 619.
- Kunstader, Samuel, Chicago, Ill. Hat or cap. No. 1,156,487; Oct. 12; Gaz. vol. 219; p. 430.
- Küntzler, Henry, Wyoming, Pa., assignor to Adder Machine Company. Clutch mechanism. No. 1,151,803; Aug. 31; Gaz. vol. 217; p. 1434.
- Kunz-Garniss Company. (See Morat, Albert S., assignor.)
- Kunz, John L., Milwaukee, Wis. Machine for cutting key-seats in shafting. No. 1,151,020; Aug. 24; Gaz. vol. 217; p. 1119.
- Kunz, John L., and H. S. Cantrovitz, Milwaukee, Wis.; said Kunz assignor of one-half to said Cantrovitz. Gear. No. 1,147,805; July 27; Gaz. vol. 216; p. 1056.
- Kunze, Hermann, Philadelphia, Pa. Leash. No. 1,161,870; Nov. 30; Gaz. vol. 220; p. 1395.
- Kunzelman, John R., Duluth, Minn. Auxiliary step for car-platforms. No. 1,133,043; Mar. 23; Gaz. vol. 212; p. 1254.
- Kunzelman, John R., Duluth, Minn. Auxiliary step for car-platforms. No. 1,141,064; May 25; Gaz. vol. 214; p. 1281.
- Künzi, Karl, assignor to Aktiengesellschaft des Eisen- & Stahlwerke vorm. Georg Fischer, Schaffhausen, Switzerland. Central buffer-coupling. No. 1,124,032; Jan. 5; Gaz. vol. 210; p. 283.
- Künzi, Karl, assignor to Aktiengesellschaft der Eisen- und Stahlwerke vorm. Georg Fischer, Schaffhausen, Switzerland. Automatic coupling with funnel-shaped head for vehicles. No. 1,145,494; July 6; Gaz. vol. 216; p. 182.
- Kupfer, Elma P., Leonia, N. J. Flame-shield for gas-stoves. No. 1,156,087; Oct. 12; Gaz. vol. 219; p. 292.
- Kupperian, Henry, Milwaukee, Wis. Resilient wheel. No. 1,159,961; Nov. 9; Gaz. vol. 220; p. 580.
- Kurek, Jan, Woodlawn, Pa. Shield. No. 1,163,094; Dec. 7; Gaz. vol. 221; p. 125.
- Kurowski, Alfred G. F. (See Bates and Kurowski.)
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,128,612; Feb. 16; Gaz. vol. 211; p. 771.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,130,178; Mar. 2; Gaz. vol. 212; p. 117.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,137,869; May 4; Gaz. vol. 214; p. 51.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,141,558; June 1; Gaz. vol. 215; p. 168.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Coin-controlled type-writing machine. No. 1,141,559; June 1; Gaz. vol. 215; p. 168.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,144,766; June 29; Gaz. vol. 215; p. 1413.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,145,373; July 6; Gaz. vol. 216; p. 138.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,150,868; Aug. 24; Gaz. vol. 217; p. 1069.
- Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,163,761; Dec. 14; Gaz. vol. 221; p. 405.
- Kurowski, Alfred G. F., and O. A. Martini, New York, N. Y. Time-controlled camera-shutter operator. No. 1,151,196; Aug. 24; Gaz. vol. 217; p. 1180.
- Kurre, August H. F., New York, N. Y. Attachment for moving-picture machines. No. 1,129,693; Feb. 23; Gaz. vol. 211; p. 1182.
- Kurschus, George, Flint, Mich. Die. No. 1,163,933; Dec. 14; Gaz. vol. 221; p. 465.
- Kurschmidt, Alphonse H., New York, N. Y. Ornamented fabric. No. 1,148,694; Aug. 3; Gaz. vol. 217; p. 76.
- Kurtz, Charles F. and J. Bethlehem, Pa. Inclosure for automobiles. No. 1,156,154; Oct. 12; Gaz. vol. 219; p. 314.
- Kurtz, Charles M. (See Burwell and Kurtz.)
- Kurtz, Daniel P., Elkhart, Ind. Hot-air furnace. No. 1,155,825; Oct. 5; Gaz. vol. 219; p. 175.
- Kurtz, Edward. (See Elliott and Kurtz.)
- Kurtz-Hähle, Carl, Rentlingen, Germany. Paper-sieve cylinder. No. 1,131,066; Mar. 9; Gaz. vol. 212; p. 460.
- Kurtz, John. (See Kurtz, C. F. and J.)
- Kurtz, Karl W., Scranton, Pa. Electric door unlocking and opening and closing means for automobiles. No. 1,151,479; Aug. 24; Gaz. vol. 217; p. 1273.
- Kurtz, Robert, Portland, Pa. Combined curtain and shade fixture. No. 1,129,694; Feb. 23; Gaz. vol. 211; p. 1182.
- Kurtz, Samuel B., Brooklyn, N. Y. Motor-vehicle. No. 1,152,821; Sept. 7; Gaz. vol. 218; p. 162.

- Kurtz, Stewart S. (See White, Harry R., assignor.)
 Kurtz, Stewart S., Canton, assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,142,971; June 15; Gaz. vol. 215; p. 737.
 Kurtz, William F., Aberdeen, S. D. Wringer. No. 1,140,989; May 25; Gaz. vol. 214; p. 1257.
 Kurtzon, Morris, Chicago, Ill. Extensible supporting-rack for wardrobes. No. 1,127,782; Feb. 9; Gaz. vol. 211; p. 432.
 Kurucz, Andrew. (See Kuczor, Alexander, assignor.)
 Kurz, August W., New York, N. Y. Vault-head. No. 1,149,652; Aug. 10; Gaz. vol. 217; p. 522.
 Kurz Electrical Company. (See Finizio, Thomas D., assignor.)
 Kurz, Gustav A. (See Chaddock and Kurz.)
 Kurz, Robert, Leavenworth, Kans. Spring-beel. No. 1,127,456; Feb. 9; Gaz. vol. 211; p. 318.
 Kusch, Max, Friedenau, near Berlin, Germany. Putrefaction-chamber. No. 1,123,320; Jan. 5; Gaz. vol. 210; p. 42.
 Kuschawch, Anton K., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,159,505; Nov. 9; Gaz. vol. 220; p. 414.
 Kusch, Isidor J., assignor to Stronghart Company, Chicago, Ill. Savings-bank. No. 1,126,643; Jan. 26; Gaz. vol. 210; p. 1335.
 Kusch, Adam F., Toledo, Ohio. Headlight. No. 1,148,101; July 27; Gaz. vol. 216; p. 1163.
 Kusch, Frank, Johnstown, Pa. Releasable parachute for aeroplanes. No. 1,124,623; Jan. 12; Gaz. vol. 210; p. 543.
 Kusch, Gustave, New York, N. Y. Inner tube for automobile-tires. No. 1,125,129; Jan. 19; Gaz. vol. 210; p. 757.
 Kushlan, Anton, Washington, Pa. Railway-tie. No. 1,162,495; Nov. 30; Gaz. vol. 220; p. 1613.
 Kuskin, David K., New York, N. Y., assignor to American Ever Ready Company. Spring binding-post. No. 1,165,519; Dec. 28; Gaz. vol. 221; p. 1097.
 Kusske, Paul R., Sibley, Minn. Draft device. No. 1,135,116; Apr. 13; Gaz. vol. 213; p. 413.
 Kustner, Otto J., Chicago, Ill. Spinning-machine. No. 1,128,462; Feb. 16; Gaz. vol. 211; p. 719.
 Kuth, William, Cincinnati, Ohio. Boiler-compound feeder. No. 1,165,608; Dec. 28; Gaz. vol. 221; p. 1128.
 Kutnewsky, Frederick H., Malden, Wash. Twine-holder. No. 1,133,157; Mar. 23; Gaz. vol. 212; p. 1294.
 Kutscheid, John J. and J. J., Chicago, Ill. Treadle mechanism for shears. No. 1,146,175; July 13; Gaz. vol. 216; p. 440.
 Kutscheid, Joseph J. (See Kutscheid, John J. and J. J.)
 Kutschinski, Robert, Kohlhasenbrück, near Berlin, Germany. Combustion-turbine. No. 1,130,090; Mar. 2; Gaz. vol. 212; p. 86.
 Kutshenreiter, Ferdinand. (See Hoffmann, Ignatz, assignor.)
 Kutter, H. L., et al. (See King and Neary, assignors.)
 Kutter, Herman L., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper-drier. No. 1,130,179; Mar. 2; Gaz. vol. 212; p. 117.
 Kutter, Herman L., Hamilton, Ohio, assignor of one-fourth to J. F. King, one-fourth to J. P. Neary, Kalamazoo, Mich., and one-fourth to F. C. Trowbridge, Hamilton, Ohio. Pulping apparatus. No. 1,162,292; Nov. 30; Gaz. vol. 220; p. 1543.
 Klittner, Ernst W., Berlin, Germany. Producing and protecting insulating-coverings of oxid on wires, bands, &c. No. 1,137,986; May 4; Gaz. vol. 214; p. 92.
 Kuzdzial, Szecepan, Holyoke, Mass. Steering-gear. No. 1,157,231; Oct. 19; Gaz. vol. 219; p. 722.
 Kuzell, Charles R. (See Klepinger, Krejčí, and Kuzell.)
 Kwiatkowski, Jacob, Winnipeg, Manitoba, Canada. Automobile fender. No. 1,131,716; Mar. 16; Gaz. vol. 212; p. 718.
 Kwis, Joseph J., assignor to The Adams Brothers Company, Findlay, Ohio. Clutch. No. 1,164,531; Dec. 14; Gaz. vol. 221; p. 674.
 Kyle Bottle Washing Machine Company. (See Keplinger, George B., assignor.)
 Kyle, George S., Chambersburg, Pa. Boiler-flue-cleaning apparatus. No. 1,143,409; June 15; Gaz. vol. 215; p. 892.
 Kyllonen, William, Oakes, N. D. Wire-fence tool. No. 1,158,242; Oct. 26; Gaz. vol. 219; p. 1138.
 Kynoch Limited. (See Cocking, Allan T., assignor.)
 Kytlica, John F., Chicago, Ill. Internal-combustion engine. No. 1,134,623; Apr. 6; Gaz. vol. 213; p. 197.
 L. A. Submarine Boat Company. (See Cage, John M., assignor.)
 L. B. Allen Co. (See Paquette, Amie V., assignor.)
 L. B. Allen Company. (See Crippen, Stuart S., assignor.)
 L. B. Skinner Manufacturing Co. (See Rumsey, Charles B., assignor.)
 L. B. Skinner Manufacturing Company. (See Skinner, Bronson C., assignor.)
 L. C. Smith & Bros. Typewriter Company. (See Gabrielson, Carl, assignor.)
 L. E. Waterman Company. (See Britten, Edwin F., Jr., assignor.)
 L. E. Waterman Company. (See Ferris, William I., assignor.)
 L. F. Benton Company. (See Sullivan, Maurice P., assignor.)
 L. M. Booth Company. (See Sutro, Harry H., assignor.)
 L'Heureux, Ludger, Montreal, Quebec, Canada. Tower for fire-fighting purposes. No. 1,136,604; Apr. 20; Gaz. vol. 213; p. 976.
 L'Heureux, Ludger, Montreal, Quebec, Canada. Apparatus for launching ships' boats. No. 1,162,497; Nov. 30; Gaz. vol. 220; p. 1613.
 L'homme, Raphael A., Worcester, Mass. Base-ball apparatus. No. 1,136,542; Apr. 20; Gaz. vol. 213; p. 954.
 La Bonte, Harold T., et al. (See Lazluy, Victor, assignor.)
 La Bounty, Charles B. II., Tacoma, Wash. Valve for non-refillable bottles. No. 1,161,693; Nov. 23; Gaz. vol. 220; p. 1288.
 La Brade, Levi, Cohoes, N. Y. Hauling-truck. No. 1,161,694; Nov. 23; Gaz. vol. 220; p. 1289.
 La Casse, Henry, Los Angeles, Cal. Pencil-sharpener. No. 1,146,431; July 13; Gaz. vol. 216; p. 530.
 La Casse, Henry, Los Angeles, Cal. Pencil-sharpener. No. 1,154,325; Sept. 21; Gaz. vol. 218; p. 762.
 La Chail, Francis X., Seattle, Wash. Coaster. No. 1,150,773; Aug. 17; Gaz. vol. 217; p. 976.
 La Chance, Leander H., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Hand-clipper. No. 1,164,532; Dec. 14; Gaz. vol. 221; p. 675.
 La Chapelle, Euclid L., Beverly, Mass. Machine for turning and relasting shoes. No. 1,132,479; Mar. 16; Gaz. vol. 212; p. 997.
 La Chapelle, Euclid L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on shoes. No. 1,140,467; May 25; Gaz. vol. 214; p. 1075.
 La Chapelle, Euclid L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-levelling machine. No. 1,143,717; June 22; Gaz. vol. 215; p. 1021.
 La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shuttle-case. No. 1,146,001; July 13; Gaz. vol. 216; p. 379.
 La Combe, Oral J., Jr., Negaunee, Mich. Key for stop-boxes. No. 1,135,297; Apr. 13; Gaz. vol. 213; p. 474.
 La Crosse Plow Co. (See Blehinger, David A., assignor.)
 La Crosse Plow Co. (See Davis, Frank E., assignor.)
 La Crosse Plow Company. (See Cameron, William W., assignor.)
 La Crosse Plow Company. (See Hirschheimer, Harry J., assignor.)
 La Fontaine, Leon, Toronto, Ontario, Canada. Life-boat. No. 1,130,301; Mar. 2; Gaz. vol. 212; p. 160.
 La Forest, George E., Ravill, Idaho. Automatic cable or track lock for suspended lines or tracks, and a cable-support. No. 1,161,695; Nov. 23; Gaz. vol. 220; p. 1289.
 La Framboise, Philip, Cleveland, Ohio. Window construction. No. 1,125,504; Jan. 19; Gaz. vol. 210; p. 891.
 La France, Alfred, Central Falls, R. I., assignor to General Electric Company. Glass-working machinery. No. 1,165,884; Dec. 28; Gaz. vol. 221; p. 1225.
 La France, Charles H., Buffalo, N. Y. Power hoisting apparatus. No. 1,161,229; Nov. 23; Gaz. vol. 220; p. 1126.
 La Grange, Frederick C., Cedar Rapids, Iowa. Medicine-dropper. No. 1,155,584; Oct. 5; Gaz. vol. 219; p. 90.
 La Gree, Paul F., Chicago, Ill. Coupling. No. 1,157,401; Oct. 19; Gaz. vol. 219; p. 782.
 La Londe, Frederick A., et al. (See Hammond, John W. and P. M., assignors.)
 La Masters, William B., San Marcel, N. Mex. Stove-ild lifter. No. 1,164,823; Dec. 21; Gaz. vol. 221; p. 816.
 La Porte, Norbert M., Baltimore, Md. Circulating system. No. 1,138,962; May 11; Gaz. vol. 214; p. 474.
 La Porte, Norbert M., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Capping-machine. No. 1,123,559; Jan. 5; Gaz. vol. 210; p. 123.
 La Porte, Norbert M., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Filling apparatus. No. 1,140,169; May 18; Gaz. vol. 214; p. 936.
 La Porte, Norbert M., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Making closures. No. 1,149,200; Aug. 10; Gaz. vol. 217; p. 356.
 La Porte, Norbert M., Baltimore, Md., assignor to The Motor Cooling Systems Company. Circulator. No. 1,162,084; Nov. 30; Gaz. vol. 220; p. 1471.
 La Porte Outing Sulky Company. (See Brown, Rhinehart H., assignor.)
 La Rock, John, assignor of one-half to T. F. McKenna, Chicago, Ill. Pipe-wrench. No. 1,161,777; Nov. 23; Gaz. vol. 220; p. 1316.
 La Rte, Henry, North River, N. Y. Bed-spring tightener. No. 1,138,491; May 4; Gaz. vol. 214; p. 270.
 La Roque, Lloyd M., assignor to Ellis Carriage Works, Inc., Kinston, N. C. Vehicle-top. No. 1,158,815; Nov. 2; Gaz. vol. 220; p. 143.

Alphabetical list of patentees—Continued.

- La Rue, Theodore B., Spokane, Wash. Safety appliance for railway-cars. No. 1,152,823; Sept. 7; Gaz. vol. 218; p. 163.
- La Societe Anonyme pour L'Exploitation des Procédes Westinghouse-Leblanc. (See Leblanc, Maurice, assignor.)
- La Société Huilerie et Savonnerie de Lurian. (See Félizat, Louis, assignor.)
- La Vallee, Emmanuel, Pawtucket, R. I., assignor to Lorraine Manufacturing Company. Shuttle. No. 1,154,420; Sept. 21; Gaz. vol. 218; p. 795.
- La Voo, George W., Steubenville, Ohio. Pipe-threading machine. No. 1,126,792; Feb. 2; Gaz. vol. 211; p. 45.
- Laas, Edward, Kansas City, Mo., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,123,557; Jan. 5; Gaz. vol. 210; p. 122.
- Labadie, Harry H. (See Schweitzer and Labadie.)
- Labadie, Harry H., administrator. (See Schweitzer and Labadie.)
- Labadie, Harry H., assignor of one-half to the Estate of W. Schweitzer, deceased, Chicago, Ill. Portable luncheon case and table. No. 1,150,126; Aug. 17; Gaz. vol. 217; p. 751.
- Labit, Girard E., Galveston, Tex. Valve for car-carried mechanism of train-stopping apparatus. No. 1,146,080; July 13; Gaz. vol. 216; p. 407.
- Labit, Girard E., Galveston, Tex. Train-stopping apparatus. No. 1,146,081; July 13; Gaz. vol. 216; p. 407.
- Labombarde, Elie W., Nashua, N. H. Adhesive-applying mechanism. No. 1,130,744; Mar. 9; Gaz. vol. 212; p. 349.
- Labombarde, Elie W., Nashua, N. H. Paper-box machine. No. 1,161,227; Nov. 23; Gaz. vol. 220; p. 1125.
- Labombarde, Elie W., Nashua, N. H. Taping-machine. No. 1,161,228; Nov. 23; Gaz. vol. 220; p. 1125.
- Labombarde, Leon E., and M. H. Sidebotham, Nashua, N. H. Power-counter. No. 1,135,536; Apr. 13; Gaz. vol. 213; p. 557.
- Laborda, Richard, Oakland, assignor of one-fourth to B. Cuellas, San Francisco, Cal. Climbing device. No. 1,148,457; July 27; Gaz. vol. 216; p. 1287.
- Laborenz, Carl, Berlin-Neukölln, Germany. Drop-table for sewing-machines. No. 1,165,106; Dec. 21; Gaz. vol. 221; p. 916.
- Laboudigue, Edward, French Gulch, Cal. Roof-plate. No. 1,145,598; July 6; Gaz. vol. 216; p. 217.
- Lacene Manufacturing Company. (See Nichols, Elmer P., assignor.)
- Lacerda, Harry A., Schenectady, N. Y. Stay-bolt for boilers. No. 1,130,525; Mar. 2; Gaz. vol. 212; p. 241.
- Lacey, Abraham F., and W. J. Clingenpeel, Des Moines, Iowa; said Clingenpeel assignor to P. Pappas. Automatic train-controlling device. No. 1,162,083; Nov. 30; Gaz. vol. 220; p. 1470.
- Lacey, Raymond J., and E. Gaughran, Muncie, Ind. Picture-machine appliance. No. 1,127,647; Feb. 9; Gaz. vol. 211; p. 382.
- Lachance, Frederick. (See Austin and Lachance.)
- Lachance, Joseph, Los Angeles, Cal. Wave-motor. No. 1,154,033; Sept. 21; Gaz. vol. 218; p. 601.
- Lachapelle, Rudolph L., Altona, N. Y. Dairy-register. No. 1,134,873; Apr. 6; Gaz. vol. 213; p. 284.
- Lachman, Laurence S., New York, N. Y. Electrically uniting metallic members. No. 1,133,806; Mar. 30; Gaz. vol. 212; p. 1562.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Electric welding apparatus. No. 1,123,558; Jan. 5; Gaz. vol. 210; p. 123.
- Lachman Manufacturing Company. (See Lachman, Maurice, assignor.)
- Lachman Manufacturing Company. (See Rietzel, Adolph F., assignor.)
- Lachman, Maurice, New York, N. Y. Metallic structure and making the same. No. 1,154,784; Sept. 28; Gaz. vol. 218; p. 947.
- Lachman, Maurice, assignor to Lachman Manufacturing Company, New York, N. Y. Laminated board and making same. No. 1,130,410; Mar. 2; Gaz. vol. 212; p. 198.
- Lachman, Maurice, assignor to Lachman Manufacturing Company, New York, N. Y. Knockdown container. No. 1,133,293; Mar. 30; Gaz. vol. 212; p. 1377.
- Lachman, Maurice, assignor to Lachman Manufacturing Company, New York, N. Y. Shipping-receptacle. No. 1,138,119; May 4; Gaz. vol. 214; p. 141.
- Lachman, Maurice, assignor to Lachman Manufacturing Company, New York, N. Y. Paper container. No. 1,138,120; May 4; Gaz. vol. 214; p. 141.
- Lachman, Maurice, assignor to Lachman Manufacturing Company, New York, N. Y. Shipping-package. No. 1,138,121; May 4; Gaz. vol. 214; p. 141.
- Lachman, Maurice, assignor, by mesne assignments, to Lachman Manufacturing Company, New York, N. Y. Shipping-receptacle. No. 1,147,954; July 27; Gaz. vol. 216; p. 1110.
- Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Welded metal-work. No. 1,134,079; Mar. 30; Gaz. vol. 212; p. 1653.
- Lachman, Maurice, New York, assignor to Universal Electric Welding Company, Long Island City, N. Y. Constructing window-sashes. No. 1,152,741; Sept. 7; Gaz. vol. 218; p. 133.
- Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Sheet-metal panel-work. No. 1,154,254; Sept. 21; Gaz. vol. 218; p. 737.
- Lachmann, Robert F., Erie, Pa. Paper-pulp beater. No. 1,160,909; Nov. 16; Gaz. vol. 220; p. 966.
- Lack, Charles T., Impington, assignor of one-half to Chivers & Sons, Limited, Histon, England. Apparatus for severing metals by fusion. No. 1,141,560; June 1; Gaz. vol. 215; p. 169.
- Lack, Finis E., Paducah, Ky. Whiffletree. No. 1,149,372; Aug. 10; Gaz. vol. 217; p. 419.
- Lack, Rudolf, Berlin, Germany. Shoe-insertion. No. 1,134,389; Apr. 6; Gaz. vol. 213; p. 111.
- Lackawanna Steel Company. (See Abbott, Franklin E., assignor.)
- Lackermann, Andrew, Freeport, Minn. Floor-scraper. No. 1,149,773; Aug. 10; Gaz. vol. 217; p. 564.
- Lackey, Greeley E., Burlington, Iowa. Mattress. No. 1,153,120; Sept. 7; Gaz. vol. 218; p. 267.
- Lackey, Merrill R., Delavan, Wis. Bearing-scraper. No. 1,128,155; Feb. 9; Gaz. vol. 211; p. 564.
- Lackner, Rudolph J., New York, N. Y. Sculling-propeller for vessels. No. 1,160,722; Nov. 16; Gaz. vol. 220; p. 901.
- Laclair, Edmund J., Cranston, R. I. Automatic safety device. No. 1,133,480; Mar. 30; Gaz. vol. 212; p. 1442.
- Lacoin, Louis, Paris, assignor to Societe Anonyme D'Etudes Du Moteur Messpa, Roune, France. Injector-carburetor for explosion-engines. No. 1,151,600; Aug. 31; Gaz. vol. 217; p. 1363.
- Laconia Car Company. (See Kling, Peter M., assignor.)
- Lacoste, Camille, Paris, France. Metallic framework construction. No. 1,141,967; June 8; Gaz. vol. 215; p. 344.
- Lacour, Paulin A., Pineville, La. Car-door. No. 1,158,510; Nov. 2; Gaz. vol. 220; p. 35.
- Lacroix, Benoit, Chazelles-sur-Lyon, France. Brushing-machine. No. 1,137,009; Apr. 27; Gaz. vol. 213; p. 1157.
- Lacroix, Francois X. J., and J. E. Roy, Montreal, Quebec, Canada. Envelop. No. 1,155,740; Oct. 5; Gaz. vol. 219; p. 144.
- Lacroix, Joseph D., New Orleans, La., assignor to E. H. Davis, New York, N. Y. Cigar-machine. No. 1,128,989; Feb. 16; Gaz. vol. 211; p. 903.
- Lacroix, Joseph D., New Orleans, La., assignor to E. H. Davis, New York, N. Y. Cigar-making machine. No. 1,128,990; Feb. 16; Gaz. vol. 211; p. 903.
- Lacroix, Joseph D., assignor to E. H. Davis, New York, N. Y. Means for applying wrappers to bunches in the manufacture of cigars. No. 1,128,991; Feb. 16; Gaz. vol. 211; p. 904.
- Lacroix, Novalis, Belle Center, Ohio. Hoisting apparatus. No. 1,157,557; Oct. 19; Gaz. vol. 219; p. 835.
- Lacy Manufacturing Company. (See French, John R., assignor.)
- Lacy, Richard C., Camden, N. J. Automatic safety device for railway-trains. No. 1,126,790; Feb. 2; Gaz. vol. 211; p. 45.
- Ladd, Earnest W., assignor to F. F. Craft, New York, N. Y. Beater. No. 1,165,423; Dec. 28; Gaz. vol. 221; p. 1064.
- Ladd, George T., Pittsburgh, Pa. Water-tube boiler. No. 1,130,745; Mar. 9; Gaz. vol. 212; p. 350.
- Ladd, George T., Pittsburgh, Pa. Water-tube boiler. No. 1,130,746; Mar. 9; Gaz. vol. 212; p. 350.
- Ladd, George T., Pittsburgh, Pa. Boiler-setting. No. 1,159,051; Nov. 2; Gaz. vol. 220; p. 221.
- Ladd, James B., Ardmore, Pa. Hair-pin. No. 1,137,147; Apr. 27; Gaz. vol. 213; p. 1207.
- Ladd, Louis E., Providence, R. I. Stud. No. 1,132,662; Mar. 23; Gaz. vol. 212; p. 1113.
- Ladd, William C., Mendota, Ill. Anchor-plate. No. 1,136,817; Apr. 20; Gaz. vol. 213; p. 1052.
- Lademan, Otto T., assignor to Morse Code Signal Company, Milwaukee, Wis. Signaling system. No. 1,129,805; Feb. 23; Gaz. vol. 211; p. 1220.
- Ladew, Charles H., Sr., assignor of one-half to J. W. Blinbaum, New York, N. Y. Pedal-action for player-pianos. No. 1,128,882; Feb. 16; Gaz. vol. 211; p. 864.
- Ladinski, Louis, New York, N. Y. Cross-belt spacer. No. 1,144,767; June 29; Gaz. vol. 215; p. 1414.
- Ladoff, Isador, Cleveland, Ohio, assignor, by mesne assignments, of thirty one-hundredths to W. D. Edmonds, Boonville, N. Y. Arc-light electrode. No. 1,164,728; Dec. 21; Gaz. vol. 221; p. 782.
- Lafever, Robert L. (See Pipe and Lafever.)
- Lafferty, Edmund J. (See Dietz, Lafferty, and Bessinger.)
- Lafitte, Andre, Biarritz, France. Distribution-gear, such as valve mechanism. No. 1,138,960; May 11; Gaz. vol. 214; p. 473.
- Lafon, Alphonse, Detroit, Mich., assignor of one-half to A. B. Boynton, Swaren, N. J. Valve for internal-combustion engines. No. 1,160,292; Nov. 16; Gaz. vol. 220; p. 747.
- Lafore-Foster Company. (See Lafore, John A., assignor.)
- Lafore, John A., Ardmore, Pa. Box construction. No. 1,135,117; Apr. 13; Gaz. vol. 213; p. 413.

Alphabetical list of patentees—Continued.

- Lafore, John A., Ardmore, assignor to Lafore-Foster Company, Philadelphia, Pa. Box construction. No. 1,127,902; Feb. 9; Gaz. vol. 211; p. 476.
- Laframboise, Roman, Maple Ridge, Mich. Car-moving device. No. 1,134,466; Apr. 6; Gaz. vol. 213; p. 140.
- Laganke, Charles F., and J. A. Smith, Harrisburg, Pa., assignors to Elliott-Fisher Company, New York, N. Y. Motor-operated adding mechanism. No. 1,135,118; Apr. 13; Gaz. vol. 213; p. 413.
- Lagergren, Carl, Osterville, Mass. Steering mechanism for automobiles. No. 1,143,410; June 15; Gaz. vol. 215; p. 893.
- Lagerman, Alexander, Jr., Villa Alexandra, Lerum, and G. H. Lindström, assignors to Aktiebolaget Princeps, Gottenborg, Sweden. Suction device for automatic printing-presses and similar machines. No. 1,133,807; Mar. 30; Gaz. vol. 212; p. 1562.
- Lagermarck, Sigvard F., and W. Sverdrup, Bön, Edisvold, Norway. Making innocuous the resin in cellulose which is intended for the manufacture of paper. No. 1,161,696; Nov. 23; Gaz. vol. 220; p. 1289.
- Lagodimos, Peter, Salem, Mass. Shoe-lining. No. 1,164,533; Dec. 14; Gaz. vol. 221; p. 675.
- Lagois, John T., New York, N. Y. Can sifter-top. No. 1,144,213; June 22; Gaz. vol. 215; p. 1196.
- Lagoda Manufacturing Company, The. (See Fuller, William D., assignor.)
- Lagoda Manufacturing Company, The. (See Hauer, Elmer E., assignor.)
- Lagoda Manufacturing Company, The. (See Overly, Charles F., assignor.)
- Lagrange, Federico A. (See Saccaggio and Lagrange.)
- Lagutt, Jan, Basel, Switzerland. Antipyretic, o-sulfamido-benzoyl-p-phenetidin, and producing the same. No. 1,153,121; Sept. 7; Gaz. vol. 218; p. 267.
- Lagutt, Jan, assignor to Chemische Fabrik vormals Sandoz, Basel, Switzerland. Production of stable salts of dimethyl-p-aminophenol and p-oxyphenol-trimethylammonium. No. 1,144,141; June 22; Gaz. vol. 215; p. 1170.
- Lahiere, Eugene A., Washington, D. C. Table-mat. No. 1,142,330; June 8; Gaz. vol. 215; p. 473.
- Lahiere, Eugene A., Washington, D. C. Mixing-machine. No. 1,142,331; June 8; Gaz. vol. 215; p. 474.
- Lahr, Frank, Barberton, assignor of one-half to W. M. Thomas, Coventry township, Ohio. Cutter for potato planters. No. 1,137,870; May 4; Gaz. vol. 214; p. 51.
- Lahti, Andrew, Red Lodge, Mont. Beet-harvester. No. 1,123,897; Jan. 5; Gaz. vol. 210; p. 238.
- Lahue, Moses M., Lowell, Mass. Brush. No. 1,135,590; Apr. 13; Gaz. vol. 213; p. 577.
- Laib, Walter, Rittman, assignor to The Ohio Salt Company, Wadsworth, Ohio. Producing chlorates of alkalis and alkaline earths. No. 1,143,586; June 15; Gaz. vol. 215; p. 952.
- Labile, Frank, assignor to The F. A. Neider Company, Augusta, Ky. Vehicle curtain-fastener. No. 1,157,312; Oct. 19; Gaz. vol. 219; p. 751.
- Laidlaw, Peter B., El Paso, Tex. Poultry house and pen. No. 1,150,774; Aug. 17; Gaz. vol. 217; p. 976.
- Laidman, George H., Bulawayo, Southern Rhodesia. Change-speed gear for power transmission. No. 1,151,277; Aug. 24; Gaz. vol. 217; p. 1207.
- Lall, William S., Connolly Springs, N. C. Nut-lock. No. 1,139,196; May 11; Gaz. vol. 214; p. 558.
- Lainé, Edouard N., Paris, France. Purifying graphite. No. 1,145,024; July 6; Gaz. vol. 216; p. 17.
- Laing, Andrew, Newcastle-upon-Tyne, England. Liquid-fuel-fired furnace. No. 1,132,361; Mar. 16; Gaz. vol. 212; p. 954.
- Laing, Andrew, Newcastle-upon-Tyne, England. Burner for liquid fuel. No. 1,160,910; Nov. 16; Gaz. vol. 220; p. 966.
- Laing, Andrew, Dunedin, New Zealand. Seat-trimmer. No. 1,134,874; Apr. 6; Gaz. vol. 213; p. 284.
- Laird, Charles W., London, England, P. M. Monteyne, and P. A. Decaille, Paris, France. Cartridge-belt. No. 1,150,435; Aug. 17; Gaz. vol. 217; p. 859.
- Laird, Robert E., and J. H. Raney, Taft, assignors to Raney-Laird Petroleum Dehydrating Company, Los Angeles, Cal. Treater for petroleum emulsions. No. 1,142,750; June 8; Gaz. vol. 215; p. 621.
- Laird, Robert E., and J. H. Raney, Taft, assignors to Raney-Laird Petroleum Dehydrating Company, Los Angeles, Cal. Apparatus for treating emulsions. No. 1,142,760; June 8; Gaz. vol. 215; p. 622.
- Laird, Robert E., and J. H. Raney, Taft, assignors to Raney-Laird Petroleum Dehydrating Company, Los Angeles, Cal. Apparatus for dehydrating petroleum-oil. No. 1,142,761; June 8; Gaz. vol. 215; p. 622.
- Laird, Wilbur G., New York, N. Y., and G. R. Shields, Detroit, Mich., assignors to The Improved Equipment Company, New York, N. Y. Gas-bench. No. 1,147,103; July 20; Gaz. vol. 216; p. 784.
- Laisné, Eugène W., Fresno, Cal. Lenses for eyeglasses and spectacles. No. 1,144,853; June 29; Gaz. vol. 215; p. 1444.
- Lajcak, Joseph, Gunn, Wyo. Camp kit. No. 1,145,691; July 6; Gaz. vol. 216; p. 250.
- Lake, Christopher J., Bridgeport, Conn. Engine. No. 1,154,034; Sept. 21; Gaz. vol. 218; p. 662.
- Lake City Manufacturing and Supply Company, The. (See Filbin, James D., assignor.)
- Lake, David, Jeffersonville, and M. U. Heiberger, Philadelphia, Pa. Fluid-clutch. No. 1,144,214; June 22; Gaz. vol. 215; p. 1196.
- Lake, Emily. (See Lake, Irving A., assignor.)
- Lake, Fred O. (See Carneal, Edwin E., assignor.)
- Lake, Fred W., Moline, Ill. Make-up device for printers. No. 1,142,105; June 8; Gaz. vol. 215; p. 396.
- Lake, Golladay, New York, N. Y. Hygienic hot-plate. No. 1,158,135; Oct. 26; Gaz. vol. 219; p. 1101.
- Lake, Irving A., assignor of one-half to E. L. Lake, New York, N. Y. Antifriction door-skid. No. 1,124,033; Jan. 5; Gaz. vol. 210; p. 283.
- Lake, Irving A., assignor of one-half to E. Lake, New York, N. Y. Pneumatic cushion. No. 1,163,419; Dec. 7; Gaz. vol. 221; p. 239.
- Lake, James, Jr., New York, N. Y. Hat-pressing machine. No. 1,126,492; Jan. 26; Gaz. vol. 210; p. 1277.
- Lake, John C. (See Collier, Clyde F., assignor.)
- Lake, John L., and G. W. Beyerle, assignors to The Militaire Auto Company, Cleveland, Ohio. Engine-starter. No. 1,125,130; Jan. 19; Gaz. vol. 210; p. 757.
- Lake, Simon, Milford, Conn. Internal-combustion engine. No. 1,128,463; Feb. 16; Gaz. vol. 211; p. 719.
- Lake, Simon, Milford, Conn. Dredging apparatus. No. 1,129,351; Feb. 23; Gaz. vol. 211; p. 1064.
- Lake, Simon, Milford, assignor to Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Buoyancy-regulating apparatus for submarine boats. No. 1,123,762; Jan. 5; Gaz. vol. 210; p. 193.
- Lake, Simon, Milford, assignor to Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Ballast-controlling apparatus. No. 1,127,648; Feb. 9; Gaz. vol. 211; p. 382.
- Lake, Simon, Milford, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Submarine boat. No. 1,135,537; Apr. 13; Gaz. vol. 213; p. 558.
- Lake, Simon, Milford, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Submarine boat. No. 1,149,373; Aug. 10; Gaz. vol. 217; p. 420.
- Lake, Thomas A. E., Milford, Conn. Flying-machine. No. 1,127,028; Feb. 2; Gaz. vol. 211; p. 129.
- Lake Torpedo Boat Company, The. (See Barraja-Frauenfelder, Joseph, assignor.)
- Lake Torpedo Boat Company of Maine, The. (See Lake, Simon, assignor.)
- Lake Torpedo Boat Company of Maine, The. (See Robinson, Richard H. M., assignor.)
- Lakonan, Howard G., Onequon, Va. Mixing apparatus. No. 1,157,788; Oct. 26; Gaz. vol. 219; p. 978.
- Lakewood Engineering Company, The. (See Doud, Arthur N., assignor.)
- Lakev, Arthur B., South Bethlehem, and E. E. Ross, Philadelphia, Pa. Transmission apparatus. No. 1,158,243; Oct. 26; Gaz. vol. 219; p. 1138.
- Lakhovsky, Georges, Paris, France. Instrument for measuring or verifying the super-elevation, gage, and inclination of the rails of railway-tracks. No. 1,136,427; Apr. 20; Gaz. vol. 213; p. 913.
- Lalická, Sorabíl R., London, England. Wheel-hub. No. 1,155,493; Oct. 5; Gaz. vol. 219; p. 59.
- Lalley, William E., Republic, Wash. Car-replacing device. No. 1,162,867; Dec. 7; Gaz. vol. 221; p. 47.
- Lally Commercial Body Company. (See Lally, George W., assignor.)
- Lally, George W., Boston, Mass. Power-transmission apparatus. No. 1,132,725; Mar. 23; Gaz. vol. 212; p. 136.
- Lally, George W., assignor to Lally Commercial Body Company, Boston, Mass. Elevating and dumping body. No. 1,158,812; Nov. 2; Gaz. vol. 220; p. 142.
- Lally, George W., assignor to Lally Commercial Body Company, Boston, Mass. Elevating and dumping body. No. 1,158,813; Nov. 2; Gaz. vol. 220; p. 142.
- Lamantia, John, Port Richmond, N. Y. Fusee and cap. No. 1,138,671; May 11; Gaz. vol. 214; p. 370.
- Lamar, Alexis L., Pittsburg, Kans., assignor of one-half to G. A. Morning, one-eighth to W. P. Allen, and one-eighth to N. Allen. Rotary engine. No. 1,156,697; Oct. 12; Gaz. vol. 219; p. 503.
- Lamar, Howard, et al. (See Stewart, David, assignor.)
- Lamar, Leonard A., assignor of one-fourth to N. Jones and one-fourth to W. M. Howard, Portland, Oreg. Life-saving apparatus. No. 1,150,775; Aug. 17; Gaz. vol. 217; p. 977.
- Lamar, Theodore, et al. (See Stewart, David, assignor.)
- Lamb, Albert J., Brooklyn, N. Y. Travel-indicating signal for automobiles. No. 1,164,366; Dec. 14; Gaz. vol. 221; p. 617.
- Lamb, Charles C., Chicago, Ill. Mechanical movement for washing-machines. No. 1,124,464; Jan. 12; Gaz. vol. 210; p. 485.
- Lamb, Charles C., assignor of one-half to W. M. McEwen, Chicago, Ill. Rail-joint. No. 1,144,714; June 29; Gaz. vol. 215; p. 1395.
- Lamb, Charles L., Nashville, Tenn. Talking-machine attachment. No. 1,130,910; Mar. 9; Gaz. vol. 212; p. 407.
- Lamb, Daniel G., Holdenville, Okla. Shelving. No. 1,165,609; Dec. 28; Gaz. vol. 221; p. 1129.
- Lamb, Henry F., Bellingham, Wash. Separator. No. 1,159,962; Nov. 9; Gaz. vol. 220; p. 580.

Alphabetical list of patentees—Continued.

- Lamb, Henry W., Portsmouth, Va. Fixation of atmospheric nitrogen by metal carbid. No. 1,123,763; Jan. 5; Gaz. vol. 210; p. 194.
- Lamb, James, Youngstown, Ohio. Hose-billing press. No. 1,128,156; Feb. 9; Gaz. vol. 211; p. 564.
- Lamb, James, Canton, Ill. Electric propulsion and control for motor-boats. No. 1,133,977; Mar. 30; Gaz. vol. 212; p. 1617.
- Lamb, James, Canton, Ill. Telpherage system. No. 1,166,227; Dec. 28; Gaz. vol. 221; p. 1349.
- Lamb, James E., Jr., Lewistown, Mont. Tractor. No. 1,126,034; Jan. 26; Gaz. vol. 210; p. 1112.
- Lamb, James L., Woodburn, Iowa. Binding and tying mechanism. No. 1,135,298; Apr. 13; Gaz. vol. 213; p. 474.
- Lamb, John H., Piedmont, W. Va. Ice-can. No. 1,157,943; Oct. 26; Gaz. vol. 219; p. 1033.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Forming and attaching bolsters to cutlery implements and the bolster-blank therefor. No. 1,136,603; Apr. 20; Gaz. vol. 213; p. 975.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Sad-iron support. No. 1,139,688; May 18; Gaz. vol. 214; p. 765.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum-bottle casing. No. 1,147,632; July 20; Gaz. vol. 216; p. 970.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Toaster. No. 1,155,494; Oct. 5; Gaz. vol. 219; p. 60.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Ice-shaver. No. 1,155,663; Oct. 5; Gaz. vol. 219; p. 118.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum-bottle casing. (Reissue.) No. 14,038; Dec. 28; Gaz. vol. 221; p. 1420.
- Lamb Machine Company. (See Whilt, Joseph H., assignor.)
- Lamb & Nash Company. (See Braddock, Edward I., assignor.)
- Lamb, Percy, Englewood, Colo. Fishing-bait box. No. 1,150,776; Aug. 17; Gaz. vol. 217; p. 977.
- Lamb, Scott E., and A. S. Taylor, Imlay City, Mich. Hay and stock rack. No. 1,126,791; Feb. 2; Gaz. vol. 211; p. 45.
- Lamb, Thomas F., and W. L. Dickinson, Shreveport, La. Water-cooler. No. 1,144,940; June 29; Gaz. vol. 215; p. 1472.
- Lamb, Walter, Buffalo, N. Y. Preparing a fish and cereal food. No. 1,125,131; Jan. 19; Gaz. vol. 210; p. 758.
- Lamb, Walter, Buffalo, N. Y. Appliance for refracting the eye. No. 1,128,693; Feb. 16; Gaz. vol. 211; p. 797.
- Lambert, Asher, Newark, N. J. Integral nut and bearing for friction-clutches. No. 1,157,232; Oct. 19; Gaz. vol. 219; p. 722.
- Lambert, Catherine W., et al., executors. (See Lovejoy, Alfred A.)
- Lambert, Charles B. (See King, Lambert, and Gihble.)
- Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Vapor-burner furnace. No. 1,136,965; Apr. 27; Gaz. vol. 213; p. 1110.
- Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Burner. No. 1,137,148; Apr. 27; Gaz. vol. 213; p. 1207.
- Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Torch-holder. No. 1,153,630; Sept. 14; Gaz. vol. 218; p. 487.
- Lambert, Dudley J., Fairburn, Ga. Reflector for electric lights. No. 1,139,542; May 18; Gaz. vol. 214; p. 713.
- Lambert, Frank, Brooklyn, N. Y. Continuous-flow meter. No. 1,148,593; Aug. 3; Gaz. vol. 217; p. 39.
- Lambert, Frank, New York, N. Y. Joint. No. 1,155,664; Oct. 5; Gaz. vol. 219; p. 118.
- Lambert, Frank, New York, N. Y. Meter. No. 1,155,665; Oct. 5; Gaz. vol. 219; p. 118.
- Lambert, Frank, New York, N. Y. Meter. No. 1,155,666; Oct. 5; Gaz. vol. 219; p. 119.
- Lambert, Frank, New York, N. Y. Fluid-meter. No. 1,155,667; Oct. 5; Gaz. vol. 219; p. 119.
- Lambert, Fred A., Lawrence, and F. H. Hardy, Andover, Mass. Electric motor-vehicle. No. 1,138,122; May 4; Gaz. vol. 214; p. 142.
- Lambert, George A., Anderson, Ind. Friction-gearing. No. 1,125,132; Jan. 19; Gaz. vol. 210; p. 758.
- Lambert, George A., Anderson, Ind. Friction power mechanism. No. 1,128,794; Feb. 16; Gaz. vol. 211; p. 832.
- Lambert, George H. (See Dolemba and Lambert.)
- Lambert, George H., East Berne, N. Y. Window-screen. No. 1,139,982; May 18; Gaz. vol. 214; p. 869.
- Lambert, James. (See Solis and Lambert.)
- Lambert, Joseph, Yamaska East, Quebec, Canada. Glass-cutter. No. 1,146,176; July 13; Gaz. vol. 216; p. 441.
- Lambert, Joseph T., and C. P. Cromin, Denison, Tex. Switch-point lock. No. 1,148,888; July 27; Gaz. vol. 216; p. 1265.
- Lambeth, Thomas, Rachel, N. C. Folding chair. No. 1,162,618; Nov. 30; Gaz. vol. 220; p. 1652.
- Lamfrom, Leon B., et al. (See Wiese, Theodore L., assignor.)
- Lamison, Clair T. (See Switzer and Lamison.)
- Lamme, Benjamin G., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Operating polyphase induction-motors. No. 1,123,321; Jan. 5; Gaz. vol. 210; p. 42.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,138,672; May 11; Gaz. vol. 214; p. 370.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,150,043; Aug. 17; Gaz. vol. 217; p. 721.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric motor. No. 1,151,804; Aug. 31; Gaz. vol. 217; p. 1434.
- Lamme, Benjamin G., and J. L. M. Yardley, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Switching device. No. 1,138,673; May 11; Gaz. vol. 214; p. 371.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Polyphase synchronous motor. No. 1,158,511; Nov. 2; Gaz. vol. 220; p. 35.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Two-speed-induction-motor winding. No. 1,158,512; Nov. 2; Gaz. vol. 220; p. 36.
- Lamont, Alexander D. (See Wesley and Lamont.)
- Lamont, John A., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Spring-plank-locking device. No. 1,135,591; Apr. 13; Gaz. vol. 213; p. 577.
- Lamont, John A., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Side frame. No. 1,146,886; July 20; Gaz. vol. 216; p. 708.
- Lamont, John A., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Built-up side frame. No. 1,151,693; Aug. 31; Gaz. vol. 217; p. 1394.
- Lamont, John A., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Swing-truck. No. 1,151,694; Aug. 31; Gaz. vol. 217; p. 1395.
- Lamont, John A., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck side frame. No. 1,157,876; Oct. 26; Gaz. vol. 219; p. 1009.
- Lamont, John A., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Pedestal construction. No. 1,157,877; Oct. 26; Gaz. vol. 219; p. 1010.
- Lamont, John A., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Trussed side frame. No. 1,165,682; Dec. 28; Gaz. vol. 221; p. 1156.
- Lamont, Robert P. (See Goldberg, Hyman E., assignor.)
- Lamoureux, William F., and C. W. Renwick, Isabella, Tenn. Recovering elemental sulfur from sulfur gases. No. 1,140,310; May 18; Gaz. vol. 214; p. 982.
- Lamoureux, Joseph O., Sorel, Quebec, Canada. Stamp-canceling machine. No. 1,162,700; Nov. 30; Gaz. vol. 220; p. 1679.
- Lamoureux, Philip J., Camas, Wash. Drier-rolls of paper-making machines. No. 1,139,777; May 18; Gaz. vol. 214; p. 796.
- Lamp, William F., Mohler, Wash. Cultivator. No. 1,166,135; Dec. 28; Gaz. vol. 221; p. 1315.
- Lamparter, John W. (See Messner and Lamparter.)
- Lampel, Edward, San Francisco, Cal. Combined screen and insect-trap. No. 1,134,875; Apr. 6; Gaz. vol. 213; p. 284.
- Lampert, Henry H., Chicago, Ill. Clip for reinforcing-bars. No. 1,126,493; Jan. 26; Gaz. vol. 210; p. 1278.
- Lampman, Albert F. (See Greene, Philip S., assignor.)
- Lamprell, Denis J., and F. Cook, Dowerin, Western Australia, Australia. Cultivator. No. 1,141,804; June 1; Gaz. vol. 215; p. 252.
- Lamprey, Ben R., deceased, assignor of one-half to E. L. Lamprey, Westfield, Mass.; E. L. Lamprey, administratrix. Boiler. No. 1,163,602; Dec. 7; Gaz. vol. 221; p. 304.
- Lamprey, Ethel L., administratrix. (See Lamprey, Ben R.)
- Lamsens, Oscar M., Detroit, Mich. Charging beer. No. 1,137,149; Apr. 27; Gaz. vol. 213; p. 1208.
- Lamson Company, The. (See Cowley, James T., assignor.)
- Lamson Company, The. (See Hick, Harry J., assignor.)
- Lamson Company, The. (See Hildren, Charles P., assignor.)
- Lamson Company, The. (See Jennings, Chester S., assignor.)
- Lamson Company, The. (See Knowlton, William H., assignor.)
- Lamson Company, The. (See Lawrence, Millard B., assignor.)
- Lamson Company, The. (See Maclaren, James G., assignor.)
- Lamson Company, The. (See Miller, Charles J., assignor.)
- Lamson Company, The. (See Needham, John T., assignor.)
- Lamson Company, The. (See Pearsall and Taisey, assignors.)
- Lamson Company, The. (See Powell, Frank D., assignor.)
- Lamson Company, The. (See Taisey, Fred R., assignor.)
- Lamson Company, The. (See Thompson, Clement E., assignor.)
- Lamson Company, The. (See Whittier, Frederick G., assignor.)

- Lamson Company, The. (See Wilson, Harry L., assignor.)
 Lamson Company, The. (See Wright, Walter C., assignor.)
 Lamson, Mary A., executrix. (See Hallowell, Albert.)
 Lamson, William S. (See Hallowell, Albert, assignor.)
 Lancaster, Frank W., Jacksonville, Fla. Collection device. No. 1,142,891; June 15; Gaz. vol. 215; p. 709.
 Lancaster, Lewis M., Philadelphia, Pa. Combined compression cock and drain. No. 1,133,566; Mar. 30; Gaz. vol. 212; p. 1475.
 Lancaster, Walter, Alva, Okla. Corn-topping machine. No. 1,128,464; Feb. 16; Gaz. vol. 211; p. 720.
 Lance, John H., Wilkes Barre, Pa. Pitcher. No. 1,165,787; Dec. 28; Gaz. vol. 221; p. 1191.
 Lance, Ora L., assignor to Royal Gum Company, Los Angeles, Cal. Vending-machine. No. 1,158,692; Nov. 2; Gaz. vol. 220; p. 99.
 Lance, Theodore D., Butte, Mont. Miner's candlestick. No. 1,131,528; Mar. 9; Gaz. vol. 212; p. 619.
 Lancy, Roswell A., Townsend, Mass., assignor to J. Spaulding & Sons Company, Rochester, N. H. Leather-board machine. No. 1,123,322; Jan. 5; Gaz. vol. 210; p. 43.
 Laucey, Roswell A., Townsend, Mass., assignor to J. Spaulding & Sons Company, Rochester, N. H. Counter-molding machine. No. 1,138,123; May 4; Gaz. vol. 214; p. 142.
 Lancaster, Frederick W., Edgbaston, Birmingham, England. Apparatus for cutting worm-gear. No. 1,128,613; Feb. 16; Gaz. vol. 211; p. 771.
 Lancaster, Frederick W., Edgbaston, Birmingham, England. Balancing means for reciprocating engines. No. 1,163,832; Dec. 14; Gaz. vol. 221; p. 431.
 Lancaster, Frederick W., Birmingham, England. Balancing device for reciprocating engines. No. 1,164,367; Dec. 14; Gaz. vol. 221; p. 617.
 Lancia, Vincenzo, Turin, Italy. Change-speed gear. No. 1,128,694; Feb. 16; Gaz. vol. 211; p. 798.
 Lancia, Vincenzo, Turin, Italy. Controlling device for use in automobiles. No. 1,138,577; May 4; Gaz. vol. 214; p. 297.
 Lancia, Vincenzo, Turin, Italy. Steering mechanism for automobiles. No. 1,148,239; July 27; Gaz. vol. 216; p. 1211.
 Land, Edmund, Grand Rapids, Mich., assignor, by mesne assignments, to Kellogg Switchboard & Supply Co. Telephone system. No. 1,146,002; July 13; Gaz. vol. 216; p. 379.
 Land, Edmund, Grand Rapids, Mich., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,146,177; July 13; Gaz. vol. 216; p. 441.
 Landau, David, New York, N. Y., and H. G. Farr, Springfield, Mass. Automatic self-lubricating bolt. No. 1,159,779; Nov. 9; Gaz. vol. 220; p. 514.
 Landau, Max, Berlin, Germany. Manufacture of pure lactic acid. No. 1,157,402; Oct. 19; Gaz. vol. 219; p. 783.
 Landefeld, John C., Detroit, Mich. Fuel-economizer. No. 1,152,955; Sept. 7; Gaz. vol. 218; p. 212.
 Landemare, Paul J., Newark, and S. Dingle, Belleville, N. J. Self-restoring book. No. 1,128,614; Feb. 16; Gaz. vol. 211; p. 771.
 Landenberger, Gustav A., Philadelphia, Pa. Knitting-machine. No. 1,134,749; Apr. 6; Gaz. vol. 213; p. 243.
 Lander, Samuel, Brooklyn, N. Y. Top-setting for jewelry. No. 1,160,723; Nov. 16; Gaz. vol. 220; p. 902.
 Landers, Albert W. (See Andrew and Landers.)
 Landers, Frary & Clark. (See Carlson, Frederick E., assignor.)
 Landers, Frary & Clark. (See Downs, George A., assignor.)
 Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
 Landers, Frary & Clark. (See Walker, George, assignor.)
 Landers, Frary & Clark. (See Warner, Alonzo A., assignor.) (Re-issue.)
 Landes, E. S., et al. (See Miller, Benjamin D., assignor.)
 Landgraf, Albert N., assignor of one-third to S. J. Matz, Waseca, Minn. Floor-laying tool. No. 1,159,963; Nov. 9; Gaz. vol. 220; p. 580.
 Landgrebe, Anton, New York, N. Y. Apparatus for dispensing beverages. No. 1,137,495; Apr. 27; Gaz. vol. 213; p. 1332.
 Landgrebe, Karl, Ensley, Ala. Twyer-cap. No. 1,129,993; Mar. 2; Gaz. vol. 212; p. 54.
 Landlin, Carl J., Boston, Mass. Apparatus for treating coated fabrics. No. 1,160,724; Nov. 16; Gaz. vol. 220; p. 902.
 Landlin, Carl J., Boston, assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass. Machine for covering circular objects. No. 1,134,208; Apr. 6; Gaz. vol. 213; p. 46.
 Landline, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Wind-shield hinge-joint. No. 1,159,506; Nov. 9; Gaz. vol. 220; p. 414.
 Landline, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Wind-shield. No. 1,161,280; Nov. 23; Gaz. vol. 220; p. 1126.
 Landline, Peter N., assignor to The Rostand Manufacturing Company, Milford, Conn. Hinge-joint for wind shields. No. 1,161,231; Nov. 23; Gaz. vol. 220; p. 1127.
 Landis, Abraham B., Enfield, Pa. Cutter-head. No. 1,127,457; Feb. 9; Gaz. vol. 211; p. 319.
 Landis, Abraham B., Enfield, Pa. Resilient tire. No. 1,142,892; June 15; Gaz. vol. 215; p. 709.
 Landis, Edward S., Reading, Pa. Water or gas box. No. 1,153,631; Sept. 14; Gaz. vol. 218; p. 487.
 Landis, Frank F., Waynesboro, Pa. Program-clock apparatus. No. 1,130,091; Mar. 2; Gaz. vol. 212; p. 87.
 Landis, Frank F., Waynesboro, Pa. Electric clock. No. 1,130,092; Mar. 2; Gaz. vol. 212; p. 87.
 Landis, Frank F., Waynesboro, Pa. Mold. No. 1,154,255; Sept. 21; Gaz. vol. 218; p. 738.
 Landis, Leonidas L., Harrison township, near Dayton, Ohio. Automatic cue-chalk. No. 1,160,988; Nov. 16; Gaz. vol. 220; p. 994.
 Landis Machine Company. (See Blair, William R., assignor.)
 Landis Machine Company. (See Fisher, Henry L., assignor.)
 Landis Machine Company. (See Hardesty, Blair, assignor.)
 Landis Machine Company. (See Nunn, Orion W., assignor.)
 Landis, Norman R., Portland, Oreg. Vehicle-tire. No. 1,156,155; Oct. 12; Gaz. vol. 219; p. 315.
 Landis, Theodore, Chicago, Ill. Blacking-brush. No. 1,146,718; July 13; Gaz. vol. 216; p. 629.
 Landis Tool Company. (See Ingle and Gosselin, assignors.)
 Landis Tool Company. (See Shearer, Harry T., assignor.)
 Landis Tool Company. (See Steiner, Ulrich, assignor.)
 Landis, Walter S., Niagara Falls, N. Y., assignor to F. S. Washburn, Nashville, Tenn. Rendering available phosphoric acid. No. 1,137,065; Apr. 27; Gaz. vol. 213; p. 1177.
 Landis, Walter S., Niagara Falls, N. Y., assignor to American Cyanamid Company, Nashville, Tenn. Making ammonia from calcium cyanamid. No. 1,149,653; Aug. 10; Gaz. vol. 217; p. 522.
 Landis, Walter S., Niagara Falls, N. Y., assignor to American Cyanamid Company, Nashville, Tenn. Producing ammonia. No. 1,154,640; Sept. 28; Gaz. vol. 218; p. 899.
 Landis, Walter S., Niagara Falls, N. Y., assignor to American Cyanamid Company, Nashville, Tenn. Making ammonia from calcium cyanamid. No. 1,163,095; Dec. 7; Gaz. vol. 221; p. 125.
 Landolt, Christian J., deceased, assignor of one-half to C. E. Gelger, Louisville, Ky.; E. Landolt, administratrix. Insole. No. 1,158,693; Nov. 2; Gaz. vol. 220; p. 99.
 Landolt, Emma, administratrix. (See Landolt, Christian J.)
 Landolt, Rodolphe, Zurich, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Reversing-gear for internal-combustion engines. No. 1,163,160; Dec. 7; Gaz. vol. 221; p. 149.
 Landon, William J., Seattle, Wash. Speed-indicator. No. 1,149,453; Aug. 10; Gaz. vol. 217; p. 447.
 Landreth, Clarence P., Philadelphia, Pa. Treating liquid. No. 1,131,067; Mar. 9; Gaz. vol. 212; p. 460.
 Landreth, Clarence P., Philadelphia, Pa. Electrochemical process of treating waters, liquids, and sewage. No. 1,139,778; May 18; Gaz. vol. 214; p. 797.
 Landreth, Clarence P., Philadelphia, Pa. Treating liquids. No. 1,146,942; July 20; Gaz. vol. 216; p. 728.
 Landry, Albany, Indian Orchard, Mass. Elevator-gate-operating mechanism. No. 1,141,874; June 1; Gaz. vol. 215; p. 273.
 Landry, Louis H. (See Taft and Landry.)
 Landry, Louis H., Uxbridge, Mass. Pattern-chain rack. No. 1,158,244; Oct. 26; Gaz. vol. 219; p. 1138.
 Landry, Louis H., assignor of one-eighth to U. Laroque, Uxbridge, Mass., one-eighth to L. Bousquet and T. Bousquet, Burrillville, R. I. Let-off for looms. No. 1,124,465; Jan. 12; Gaz. vol. 210; p. 486.
 Landry, Rosamond L., Houston Heights, Tex. Combined hose-reel and valve. No. 1,132,590; Mar. 23; Gaz. vol. 212; p. 1085.
 Landsberg, William, Brooklyn, N. Y. Mayonnaise-mixer. No. 1,144,215; June 22; Gaz. vol. 215; p. 1196.
 Landsberger, John J., Douglas, Minn. Composition for curing twine. No. 1,127,649; Feb. 9; Gaz. vol. 211; p. 382.
 Landsberger, Julius A. (See Buhles and Landsberger.)
 Landsheet, Charles, Mount Jewett, assignor to Consolidated Machine Company, Bradford, Pa. Device for capping off glass cylinders. No. 1,163,618; Dec. 7; Gaz. vol. 221; p. 309.
 Landsiedel, Harry, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Recording-machine. No. 1,123,323; Jan. 5; Gaz. vol. 210; p. 43.
 Landsiedel, Harry, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Tabulating mechanism. No. 1,128,992; Feb. 16; Gaz. vol. 211; p. 904.
 Landsiedel, Harry, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,138,875; May 11; Gaz. vol. 214; p. 444.

Alphabetical list of patentees—Continued.

- Landsiedel, Harry, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding-machine. No. 1,141,348; June 1; Gaz. vol. 215; p. 92.
- Landsiedel, Harry, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Recording-machine. No. 1,142,787; June 8; Gaz. vol. 215; p. 633.
- Landsiedel, Harry, Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Adding and recording machine. No. 1,145,599; July 6; Gaz. vol. 216; p. 217.
- Landua, Henry, Kiel, Wis. Nut-lock. No. 1,157,007; Oct. 19; Gaz. vol. 219; p. 642.
- Lane, Alfred M., St. Louis, Mo. Vehicle-spring. No. 1,137,987; May 4; Gaz. vol. 214; p. 92.
- Lane, Alfred M., assignor to Monarch Metal Weather Strip Company, St. Louis, Mo. Weather-strip. No. 1,134,209; Apr. 6; Gaz. vol. 213; p. 46.
- Lane, Charles B., Knoxville, Tenn., assignor to Draper Company, Hopedale, Mass. Loom. No. 1,145,425; July 6; Gaz. vol. 216; p. 156.
- Lane, Charles H., Dallas, Oreg. Cuspidor. No. 1,156,605; Oct. 12; Gaz. vol. 219; p. 470.
- Lane, Edward, Pittsburgh, Pa. Smoke-consuming furnace. No. 1,162,736; Nov. 30; Gaz. vol. 220; p. 1692.
- Lane, Edward, Pittsburgh, Pa. Smoke-consuming furnace. No. 1,165,982; Dec. 28; Gaz. vol. 221; p. 1258.
- Lane, Edward, Kansas City, Mo. Roller-furnace. No. 1,165,981; Dec. 28; Gaz. vol. 221; p. 1258.
- Lane, Edward H., Altavista, Va. Cedar chest. No. 1,138,578; May 4; Gaz. vol. 214; p. 298.
- Lane, Forrest D., assignor to Bisbee Straight Motion Engine Co., Bisbee, Ariz. Wheel-tire. No. 1,126,232; Jan. 26; Gaz. vol. 210; p. 1186.
- Lane, Frank. (See Beezley and Lane.)
- Lane, Frederick W., Chico, Cal. Projecting instrument. No. 1,142,585; June 8; Gaz. vol. 215; p. 564.
- Lane, George M., Lanoka, N. J. Safety-pin. No. 1,144,715; June 29; Gaz. vol. 215; p. 1395.
- Lane, George S., assignor to C. Christensen, Portland, Oreg. Milk-bottle lock. No. 1,134,277; Apr. 6; Gaz. vol. 213; p. 71.
- Lane-Harris & Company. (See Loftin and Murphy, assignors.)
- Lane, Henry M., Cincinnati, Ohio. Bath-tub. No. 1,161,137; Nov. 23; Gaz. vol. 220; p. 1092.
- Lane, Henry M., Cincinnati, Ohio. Bath-tub. No. 1,161,138; Nov. 23; Gaz. vol. 220; p. 1092.
- Lane Manufacturing Company. (See Draher, John, assignor.)
- Lane, Oscar A. (See Guice, Dohrmeier, and Lane.)
- Lane, Oscar A., D. Guice, and H. P. Dohrmeier, Greenville, Ala. Crate or box. No. 1,137,407; Apr. 27; Gaz. vol. 213; p. 1303.
- Lane, Roy R., Independence, Mo. Clothes-line reel. No. 1,137,217; Apr. 27; Gaz. vol. 213; p. 1232.
- Lane, Victor E., New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Insulated wall structure. No. 1,140,637; May 25; Gaz. vol. 214; p. 1150.
- Lane, W. Britton, assignor to T. W. Snow Construction Company, Chicago, Ill. Gearing. No. 1,134,541; Apr. 6; Gaz. vol. 213; p. 166.
- Lane, Walter, assignor to Bush & Lane Piano Co., Holland, Mich. Upright-piano frame. No. 1,146,432; July 13; Gaz. vol. 216; p. 530.
- Lane, Walter, assignor to Bush & Lane Piano Co., Holland, Mich. Upright-piano frame. No. 1,146,433; July 13; Gaz. vol. 216; p. 531.
- Lane, William C., and E. J. Allen, Brooklyn, N. Y. Feed-regulator. No. 1,143,634; June 22; Gaz. vol. 215; p. 993.
- Lane, William O., Cleveland, Ohio. Wire-grip. No. 1,124,034; Jan. 5; Gaz. vol. 210; p. 284.
- Laney, Thomas G., et al. (See Overly and Thompson, assignors.)
- Lang, Anthony E., Buffalo, N. Y. Sanitary garbage-receiver. No. 1,157,008; Oct. 19; Gaz. vol. 219; p. 642.
- Lang, Anthony E., Buffalo, N. Y. Shower-bath curtain. No. 1,159,507; Nov. 9; Gaz. vol. 220; p. 415.
- Lang, Archibald M., Liverpool, England. Sugar-cane and like mill returner-bar. No. 1,156,012; Oct. 5; Gaz. vol. 219; p. 238.
- Lang, Arthur A. D., London, England. Aerial propeller. No. 1,150,436; Aug. 17; Gaz. vol. 217; p. 859.
- Lang, Carl J., Olean, N. Y. Machine for cutting and pasting moving-picture films. No. 1,146,003; July 13; Gaz. vol. 216; p. 380.
- Lang, Charles E., Los Angeles, assignor to Wasson Engineering & Supply Co., Santa Rosa, Cal. Retrieving-trolley. No. 1,124,624; Jan. 12; Gaz. vol. 210; p. 543.
- Lang, Edward M., Jr., Portland, Me. Can-capping machine. No. 1,159,236; Nov. 2; Gaz. vol. 220; p. 288.
- Lang, Edward M., Jr., Portland, Me., and C. W. Sleeper, Lancaster, N. H.; said Sleeper assignor to said Lang. Cap-dropper. No. 1,159,235; Nov. 2; Gaz. vol. 220; p. 287.
- Lang, Ferdinand, Colorado Springs, Colo. Furnace-grate. No. 1,163,420; Dec. 7; Gaz. vol. 221; p. 240.
- Lang, Frank E., Barre, Vt. Turn-table for stoneworking-machines. No. 1,125,566; Jan. 19; Gaz. vol. 210; p. 912.
- Lang, Frank G., Bay City, Mich. Veterinary surgical instrument. No. 1,151,197; Aug. 24; Gaz. vol. 217; p. 1181.
- Lang, George H., Boston, Mass. Speed-indicator. No. 1,128,695; Feb. 16; Gaz. vol. 211; p. 798.
- Lang, George H., Boston, Mass. Laundry-marking machine. No. 1,143,768; June 22; Gaz. vol. 215; p. 1038.
- Lang, George L., Newark, and A. D. T. Libby, East-Orange, assignors to Splittdorf Electrical Company, Newark, N. J. Means for mounting current-distributor blocks. No. 1,125,852; Jan. 19; Gaz. vol. 210; p. 1015.
- Lang, John A., Carthage, N. C. Differential gearing. No. 1,154,641; Sept. 28; Gaz. vol. 218; p. 899.
- Lang, Louis, New York, N. Y. Diamond-cutter's dop. No. 1,147,517; July 20; Gaz. vol. 216; p. 930.
- Lang, Louis L., Detroit, Mich. Ax. No. 1,146,178; July 13; Gaz. vol. 216; p. 441.
- Lang Pen Company Limited, The. (See Johnson and Wade, assignors.)
- Lang, William C., Cleveland, Ohio. Fire-hose cart. No. 1,127,029; Feb. 2; Gaz. vol. 211; p. 130.
- Lang, William C., Cleveland, Ohio. Mold-making machine. No. 1,131,145; Mar. 9; Gaz. vol. 212; p. 486.
- Lang, William C., Cleveland, Ohio. Sand-compressing means for making molds. No. 1,137,638; Apr. 27; Gaz. vol. 213; p. 1380.
- Lang, William F., Pittsburgh, Pa. Knee-joint. No. 1,138,298; May 4; Gaz. vol. 214; p. 201.
- Langdon, John, Portland, Oreg. Disappearing bed. No. 1,147,028; July 20; Gaz. vol. 216; p. 759.
- Langdon, John F., Kansas City, Kans. Band-cutter and feeder. No. 1,136,966; Apr. 27; Gaz. vol. 213; p. 1140.
- Langdon, John L., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Slotted signal-lever. No. 1,152,370; Aug. 31; Gaz. vol. 217; p. 1630.
- Lange, August W., Philadelphia, Pa. Pail-cover. No. 1,124,466; Jan. 12; Gaz. vol. 210; p. 486.
- Lange, Berthold A., St. Louis, Mo. Combined can container and perforator. No. 1,149,840; Aug. 10; Gaz. vol. 217; p. 588.
- Lange, Carl, Friedland, Germany. Artificial sausage-skin. No. 1,157,556; Oct. 19; Gaz. vol. 219; p. 835.
- Lange, Felix. (See Balch and Lange.)
- Lange, Felix, Essen-on-the-Ruhr, Germany, assignor to Goldschmidt Thermit Company, New York, N. Y. Uniting railway-rails. No. 1,153,435; Sept. 14; Gaz. vol. 218; p. 418.
- Lange, Ferdinand, Los Angeles, Cal. Reversible plow. No. 1,151,198; Aug. 24; Gaz. vol. 217; p. 1181.
- Lange, John, Bloomfield, N. J., assignor to The R. Neumann Hardware Co. English or sewed-in bag-frame. No. 1,124,467; Jan. 12; Gaz. vol. 210; p. 486.
- Lange, Pieter A. de, Alkmaar, Netherlands. Machine for cutting beans and other legumes. No. 1,153,041; Sept. 7; Gaz. vol. 218; p. 241.
- Lange, Walter, Big Creek, Nebr. Safety-valve. No. 1,162,935; Dec. 7; Gaz. vol. 221; p. 69.
- Langebennig, George H., Guthrie, Okla. Ice-box. No. 1,125,697; Jan. 19; Gaz. vol. 210; p. 961.
- Langenbach, Elizabeth, Orlando, Fla. Buckle. No. 1,145,151; July 6; Gaz. vol. 216; p. 62.
- Langendorfer, John W., Philadelphia, Pa. Gas-saver. No. 1,123,898; Jan. 5; Gaz. vol. 210; p. 229.
- Langenohl, Ewald, Wernelskirchen, Germany. Manufacturing welted boots and shoes without lasting. No. 1,138,961; May 11; Gaz. vol. 214; p. 473.
- Langer, Henry, Middletown, Conn. Loom. No. 1,135,701; Apr. 13; Gaz. vol. 213; p. 617.
- Langer, Robert F., et al. (See Elzas, Martin, assignor.)
- Langer, Theodor, Vienna, Austria-Hungary. Steam-jet furnace. No. 1,124,035; Jan. 5; Gaz. vol. 210; p. 284.
- Langford, George W., and H. A. Wenk, assignors to Economy Baler Company, Ann Arbor, Mich. Baling press. No. 1,127,650; Feb. 9; Gaz. vol. 211; p. 382.
- Langford, Jeremiah E., Salt Lake City, Utah. Railway-tie and rail-grip. No. 1,131,388; Mar. 9; Gaz. vol. 212; p. 570.
- Langford, John M., Leesville, S. C. Rail-joint. No. 1,145,321; July 6; Gaz. vol. 216; p. 120.
- Langford, Louis. (See Wright and Langford.)
- Langford, Simon, Evansville, Ind. Chair-seat. No. 1,135,197; Apr. 13; Gaz. vol. 213; p. 440.
- Langford, Theron S., assignor to The Ann Arbor Machine Company, Ann Arbor, Mich. Tucker-roll for hay-presses. No. 1,149,654; Aug. 10; Gaz. vol. 217; p. 523.
- Languth, Erich, Neerpelt, Belgium. Treating mixed sulfid ores. No. 1,144,481; June 29; Gaz. vol. 215; p. 1315.
- Langhammer, Charles A., New York, N. Y. Attachable top for cakes and similar articles of pastry. No. 1,129,406; Feb. 23; Gaz. vol. 211; p. 1085.
- Langhammer, Frank L., Bridgeport, Conn. Buckle. No. 1,147,955; July 27; Gaz. vol. 216; p. 1110.
- Langley, Edward H. M., and E. W. Price, Aston, assignors to The Electric & Ordnance Accessories Company, Limited, Birmingham, England. Circuit-controlling apparatus for train-lighting systems. No. 1,135,384; Apr. 13; Gaz. vol. 213; p. 503.

- Langley, James T., Portland, and E. Thomas, La Grande, Oreg. Gage-cock. No. 1,149,374; Aug. 10; Gaz. vol. 217; p. 420.
- Langley, Sam G., Orange, assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Alternating-current rectifier. No. 1,152,646; Sept. 7; Gaz. vol. 218; p. 98.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Vacuum-gage. No. 1,126,233; Jan. 26; Gaz. vol. 210; p. 1187.
- Langseth, Gust, assignor to Washburn-Crosby Company, Minneapolis, Minn. Bottle-case. No. 1,154,702; Sept. 28; Gaz. vol. 218; p. 920.
- Langseth, Randolph, assignor, by mesne assignments, to Automatic Justifier Company, Hammond, Ind. Page compressor and justifier. No. 1,130,829; Mar. 9; Gaz. vol. 212; p. 378.
- Langston, Alpha, Straughas, Ind. Sewer-form. No. 1,127,030; Feb. 2; Gaz. vol. 211; p. 130.
- Langston, Samuel M., Camden, N. J. Stop mechanism. No. 1,124,468; Jan. 12; Gaz. vol. 210; p. 487.
- Langston, Samuel M., Camden, N. J. Slitter and rewinder. No. 1,131,146; Mar. 9; Gaz. vol. 212; p. 487.
- Langston, Samuel M., Wenonah, assignor to Samuel M. Langston Company, Camden, N. J. Sheet-feeding mechanism. No. 1,150,210; Aug. 17; Gaz. vol. 217; p. 781.
- Langton, Edward A., assignor of one-half to C. T. Hayner, New York, N. Y. Non-refillable bottle. No. 1,134,210; Apr. 6; Gaz. vol. 213; p. 47.
- Langton, George H., Raleigh, N. C., assignor of one-half to J. W. Small, Portsmouth, Va. Adjustable locomotive driving-box brass. No. 1,150,375; Aug. 17; Gaz. vol. 217; p. 839.
- Langton, Herbert. (See Smith and Langton.)
- Lanham, James H., assignor to A. W. Watters, Rome, Ga. Cotton-chopper. No. 1,133,044; Mar. 23; Gaz. vol. 212; p. 1254.
- Lanhouffer, Edmond, Poissy, France. Molding sheets of fibrous materials. No. 1,154,256; Sept. 21; Gaz. vol. 218; p. 738.
- Lanier, Jeremiah U., and J. W. Newsom, Newsom, N. C. Nut-lock. No. 1,132,193; Mar. 16; Gaz. vol. 212; p. 892.
- Lanigan, James A., Lancaster, and D. J. Carson, Buffalo, N. Y. Feeding and stoking attachment for furnaces. No. 1,130,411; Mar. 2; Gaz. vol. 212; p. 198.
- Laning, Harris. (See Wood and Laning.)
- Lannegrace, Eugene. (See Lord, Peter, assignor.)
- Lanning, Charles D. (See Hawklus, Gardner C., assignor.)
- Lanning, Charles D., Boston, Mass. Telephone reinforcing-circuit. No. 1,131,250; Mar. 9; Gaz. vol. 212; p. 522.
- Lanning, Charles D., Boston, Mass. Means for controlling direct currents. No. 1,131,251; Mar. 9; Gaz. vol. 212; p. 523.
- Lanning, Charles D., Boston, Mass. Winding mechanism for forming yarn or thread packages. No. 1,141,876; June 1; Gaz. vol. 215; p. 274.
- Lanning, Charles D., Boston, Mass. Stop-motion for looms. No. 1,147,250; July 20; Gaz. vol. 216; p. 837.
- Lanning, Charles D., Dorchester, Mass. Warp-levelling machine. No. 1,145,322; July 6; Gaz. vol. 216; p. 120.
- Lanning, Charles D., Dorchester, Mass. Stop-motion for looms. No. 1,147,249; July 20; Gaz. vol. 216; p. 836.
- Lanning, Charles D., Dorchester, Mass. Repeater. No. 1,154,574; Sept. 21; Gaz. vol. 218; p. 847.
- Lanning, Charles D., Dorchester, Mass. Bobbin-clutching spinning-spindle. No. 1,160,725; Nov. 16; Gaz. vol. 220; p. 902.
- Lanning, Charles D., and E. F. Hathaway, Dorchester, assignors to American Warp Drawing Machine Company, Boston, Mass. Machine for operating upon warp-threads. No. 1,147,412; July 20; Gaz. vol. 216; p. 894.
- Lanning, Howard H. (See Jacobs and Lanning.)
- Lanning, James K. (See Cunliff, John V., assignor.)
- Lanning, James K. (See Goodwin and Cheetham, assignors.)
- Lanning, James K. (See Packer, Richard, assignor.)
- Lanning, James K. (See Webster, Charles B., assignor.)
- Lanning, James K. (See Whitworth, Jesse, assignor.)
- Lanning, James K., Boston, Mass. Winding mechanism for forming yarn or thread packages. No. 1,141,875; June 1; Gaz. vol. 215; p. 274.
- Lanning, James K., Fall River, Mass. Spinning-ring. No. 1,161,697; Nov. 23; Gaz. vol. 220; p. 1289.
- Lanphier, Robert C., Springfield, Ill., and E. M. Fitz, Columbus, Ohio. Battery-controlling device for axle-driven generators. No. 1,152,822; Sept. 7; Gaz. vol. 218; p. 163.
- Lansdell, Frederick H., Atlanta, Ga. Timing device for explosion-engines. No. 1,165,610; Dec. 28; Gaz. vol. 221; p. 1129.
- Lansden, Ettie G., and A. C. Grimsley, Monterey, Tenn. Hobby-horse and tricycle. No. 1,125,698; Jan. 19; Gaz. vol. 210; p. 962.
- Lansden, John M., Jr., Newark, N. J. Vehicle-hub and cap. No. 1,136,019; Apr. 20; Gaz. vol. 213; p. 769.
- Lansden, John M., Jr., Newark, N. J. Motor-vehicle. No. 1,147,411; July 20; Gaz. vol. 216; p. 893.
- Lansdowne, David S., Mulvane, Kans. Jack-screw. No. 1,154,519; Sept. 21; Gaz. vol. 218; p. 828.
- Lansing-Company. (See Verplanck, Holly M., assignor.)
- Lansing, James A., Scranton, Pa. Cooking-stove. No. 1,150,127; Aug. 17; Gaz. vol. 217; p. 751.
- Lansing, James A., assignor to Scranton Stove Works, Scranton, Pa. Range. No. 1,153,322; Sept. 14; Gaz. vol. 218; p. 375.
- Langston Monotype Machine Company. (See Bancroft and Indahl, assignors.)
- Langston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)
- Langston Monotype Machine Company. (See Indahl and Knight, assignors.)
- Langston Monotype Machine Company. (See Pierpont, Frank, assignor.)
- Langston Monotype Machine Company. (See Walden, Lester M., assignor.)
- Lanyon, Edwin V., and F. A. Curnow, Pittsburg, Kans. Smelting-furnace. No. 1,127,264; Feb. 2; Gaz. vol. 211; p. 211.
- Lanyon, Samuel H., assignor to The Portland Automobile Wheel Company, Portland, Oreg. Resilient wheel. No. 1,164,824; Dec. 21; Gaz. vol. 221; p. 816.
- Lanz, Firm of Heinrich. (See Bürger, Franz, assignor.)
- Lanz, Firm of Heinrich. (See Seck, Karl H. W. L., assignor.)
- Lanzaro, Michele, West Springfield, Mass. Shoe. No. 1,144,768; June 29; Gaz. vol. 215; p. 1414.
- Lanzdorf, Adolf, Vienna, Austria-Hungary. Resilient device for vehicle-wheels. No. 1,151,109; Aug. 24; Gaz. vol. 217; p. 1149.
- Lanzdorf, Adolf, Vienna, Austria-Hungary. Clutch. No. 1,157,789; Oct. 26; Gaz. vol. 219; p. 978.
- Lape, Edmund R. (See Bell and Lape.)
- Lape, William L., Markleton, Pa. Container. No. 1,130,988; Mar. 9; Gaz. vol. 212; p. 433.
- Lapertot, Pierre. (See Paturel and Lapertot.)
- Lapidus, Isaac, New York, N. Y. Drill. No. 1,138,490; May 4; Gaz. vol. 214; p. 270.
- Lapointe, Francis J., Hudson, Mass. Key-seat-broaching machine. No. 1,137,218; Apr. 27; Gaz. vol. 213; p. 1232.
- Lapointe, Francis J., New London, Conn. Broaching-machine. No. 1,164,004; Dec. 14; Gaz. vol. 221; p. 489.
- Laporte, Gaspard and O., Centerville, R. I. Shoemaker's jack. No. 1,151,021; Aug. 24; Gaz. vol. 217; p. 1120.
- Laporte, Octave. (See Laporte, Gaspard and O.)
- Lappen, James E., Le Roy, assignor, by mesne assignments, to Northern Insulating Company, St. Paul, Minn. Producing flax felt. No. 1,125,347; Jan. 19; Gaz. vol. 210; p. 836.
- Lappen, James E., assignor to Union Fibre Company, Winona, Minn. Machine for making fiber insulating-sheets. No. 1,139,983; May 18; Gaz. vol. 214; p. 869.
- Lappen, James E., assignor to Union Fibre Company, Winona, Minn. Machine for forming cementitious insulating-sheets. No. 1,140,601; May 25; Gaz. vol. 214; p. 1122.
- Lappen, James E., assignor to Union Fibre Company, Winona, Minn. Producing heat-insulating boards from fibrous material. No. 1,155,330; Sept. 28; Gaz. vol. 218; p. 1132.
- Lappen, James E., assignor to Union Fibre Company, Winona, Minn. Treating flax-straw. No. 1,158,245; Oct. 26; Gaz. vol. 219; p. 1130.
- Laprath, Thomas J., Lynch, Neb. Animal-trap. No. 1,146,004; July 13; Gaz. vol. 216; p. 380.
- Lapuk, Wasył T., Goodeve, Saskatchewan, Canada. Bomb. No. 1,147,177; July 20; Gaz. vol. 216; p. 810.
- Lara, Francisco, Trinidad, Cuba, assignor to Fulton Iron Works, St. Louis, Mo. Self-rotating screen. No. 1,157,009; Oct. 19; Gaz. vol. 219; p. 642.
- Larabee, Frederick D. (See Andrews, William G., assignor.)
- Larabee, Frederick D., Hutchinson, Kans., assignor to himself, and W. G. Andrews, Chicago, Ill. Treating flour. No. 1,136,881; Apr. 20; Gaz. vol. 213; p. 1073.
- Laragy, Edward J., assignor of one-half to M. M. Spellacy, Hartford, Conn. Window-frame. No. 1,129,497; Feb. 23; Gaz. vol. 211; p. 1117.
- Laraway, William H., assignor to J. F. Carter, Grand Rapids, Mich. Engine-starter. No. 1,162,619; Nov. 30; Gaz. vol. 220; p. 1652.
- Lard, Allan E., Washington, D. C. Shaft for golf-clubs. No. 1,125,029; Jan. 12; Gaz. vol. 210; p. 685.
- Lard, Allan E., Washington, D. C. Single-trigger firearm. No. 1,147,737; July 27; Gaz. vol. 216; p. 1034.
- Lardner, Henry A., and G. F. Chellis, San Francisco, Cal. Steering apparatus. No. 1,144,552; June 29; Gaz. vol. 215; p. 1339.
- Larison, Abel B., and E. Baptist, Atlanta, Ill. Locomotive. No. 1,158,814; Nov. 2; Gaz. vol. 220; p. 143.
- Larkin Co. (See Morrey, Charles B., assignor.)
- Larkin, George N., New Market, Ala. Resilient wheel. No. 1,158,694; Nov. 2; Gaz. vol. 220; p. 99.
- Larkin, Joseph P. (See Lewis, Benjamin F., assignor.)
- Larkin, Joseph P., Pittsburgh, Pa. Railway-ticket. No. 1,151,367; Aug. 24; Gaz. vol. 217; p. 1235.
- Larkins, Herman H., and M. R. Kevill, Princeton, Ky. Agricultural machine. No. 1,153,800; Sept. 14; Gaz. vol. 218; p. 546.
- Larmon, Charles B. (See Summers and Larmon.)

Alphabetical list of patentees—Continued.

- Larocca, Nicola, Newark, N. J. Valve for flushing toilet-bowls. No. 1,145,249; July 6; Gaz. vol. 216; p. 96.
- Larocque, Edgill, *et al.* (See Landry, Louis H., assignor.)
- Larony, Philip, Chicago, Ill. Device for attaching flues to boilers. No. 1,165,184; Dec. 21; Gaz. vol. 221; p. 943.
- Larabee, Albert R., Jersey City, N. J. Display-card. No. 1,141,349; June 1; Gaz. vol. 215; p. 93.
- Larabee, Clinton E., Binghamton, assignor to International Time Recording Company of New York, Endicott, N. Y. Time-recorder for vehicles. No. 1,133,045; Mar. 23; Gaz. vol. 212; p. 1255.
- Larry, Edward P. (See Collette, Larry, and Buras.)
- Larry, Edwin C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Adjustable resistance. No. 1,155,826; Oct. 5; Gaz. vol. 219; p. 176.
- Larry, Edwin C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Switch-throw-rod connection. No. 1,159,319; Nov. 2; Gaz. vol. 220; p. 317.
- Larscheid, Frank E., Minneapolis, F. W. Carlson, St. Paul, Minn., and J. Firner, Prescott, Wis. Pivot-hinge. No. 1,162,936; Dec. 7; Gaz. vol. 221; p. 70.
- Larsen, Andru, Chicago, Ill. Hoof-pad. No. 1,135,029; Apr. 13; Gaz. vol. 213; p. 383.
- Larsen, Andru, Chicago, Ill. Hoof-pad. No. 1,135,030; Apr. 13; Gaz. vol. 213; p. 383.
- Larsen, Andru, Chicago, Ill. Hoof-pad. No. 1,135,031; Apr. 13; Gaz. vol. 213; p. 383.
- Larsen, Andru, Chicago, Ill. Riveting-machine. No. 1,156,013; Oct. 5; Gaz. vol. 219; p. 238.
- Larsen, Bertinius, assignor to National Standard Company, Niles, Mich. Lifting-jack. No. 1,135,299; Apr. 13; Gaz. vol. 213; p. 474.
- Larsen, Christian, Lake Benton, Minn. Combined automatic coupling for a train-pipe and valve-actuating mechanism. No. 1,144,482; June 29; Gaz. vol. 215; p. 1316.
- Larsen, Elmer W., Minneapolis, Minn. Synchronous telegraphy. No. 1,146,581; July 13; Gaz. vol. 216; p. 584.
- Larsen, Ivert, assignor, by mesne assignments, to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 1,150,525; Aug. 17; Gaz. vol. 217; p. 891.
- Larsen, John C., Chicago, Ill. Labeling-machine. No. 1,134,876; Apr. 6; Gaz. vol. 213; p. 285.
- Larsen, Louis A. (See Soule and Larsen.)
- Larsen, Ludwig A. (See Anderson, Carl E., assignor.)
- Larsen, Olaf. (See Valerius and Larsen.)
- Larsh, John M., Indianapolis, assignor to American Highway Supply Company, Terre Haute, Ind. Road-machine. No. 1,124,625; Jan. 12; Gaz. vol. 210; p. 544.
- Larson, Albert L., Beloit, Wis. Roller-bearing. No. 1,160,293; Nov. 16; Gaz. vol. 220; p. 747.
- Larson, Amos W., Rockford, Ill. Leather-cutting tool. No. 1,134,542; Apr. 6; Gaz. vol. 213; p. 167.
- Larson, Carl A., Oswego, N. Y. Automatic can-filling machine. No. 1,141,561; June 1; Gaz. vol. 215; p. 169.
- Larson, Carl A., Stromsburg, Nebr. Elevator. No. 1,159,237; Nov. 2; Gaz. vol. 220; p. 288.
- Larson, Carl B., Irvington, N. J. Grinding, polishing, or buffing machine. No. 1,158,136; Oct. 26; Gaz. vol. 219; p. 1101.
- Larson, Carl L., assignor of one-half to N. D. Goddard, Worcester, Mass. Balancing device. No. 1,146,629; July 13; Gaz. vol. 216; p. 600.
- Larson, Carl W., and C. Olofson, assignors to Dahlstrom Metallic Door Company, Jamestown, N. Y. Metallic door and the like. No. 1,166,228; Dec. 28; Gaz. vol. 221; p. 1350.
- Larson, Charles G., Burlington, Iowa, assignor of two-fifths to W. T. Love, trustee, Lomax, Ill. Grab-bucket. No. 1,136,428; Apr. 20; Gaz. vol. 213; p. 914.
- Larson, Chris., Blairstown, Iowa. End-gate. No. 1,134,877; Apr. 6; Gaz. vol. 213; p. 285.
- Larson, Chris., assignor of one-half to H. C. Ohlman, Denver, Colo. Engine. No. 1,126,035; Jan. 26; Gaz. vol. 210; p. 1112.
- Larson, David. (See Lindquist and Larson.)
- Larson, David, Berlin, Germany, assignor to Otis Elevator Company, Jersey City, N. J. Furnace-hoist. No. 1,127,364; Feb. 2; Gaz. vol. 211; p. 243.
- Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Overload circuit-breaker. No. 1,134,750; Apr. 6; Gaz. vol. 213; p. 241.
- Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Dash-pot accelerating device. No. 1,159,590; Nov. 9; Gaz. vol. 220; p. 444.
- Larson, Edward A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-radiator thermometer. No. 1,136,682; Apr. 20; Gaz. vol. 213; p. 1003.
- Larson, Edward A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-feeding device. No. 1,153,496; Sept. 14; Gaz. vol. 218; p. 509.
- Larson, Edward A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer drive-gear. No. 1,161,483; Nov. 23; Gaz. vol. 220; p. 1216.
- Larson, Edwin M., Los Angeles, Cal. Automatic butter-dispensing apparatus. No. 1,159,688; Nov. 9; Gaz. vol. 220; p. 479.
- Larson, Frank W., Hartford, Conn. Bit-stock. No. 1,133,046; Mar. 23; Gaz. vol. 212; p. 1255.
- Larson, Fred R., New Sweden, Me. Safety-envelop. No. 1,142,444; June 8; Gaz. vol. 215; p. 516.
- Larson, Henry A., assignor of one-half to C. T. Johnson, Jamestown, N. Y. Folding lunch-box. No. 1,131,638; Mar. 9; Gaz. vol. 212; p. 658.
- Larson, John, New Britain, Conn. Tension device for spools. No. 1,135,702; Apr. 13; Gaz. vol. 213; p. 617.
- Larson, John M., assignor to National Regulator Company, Chicago, Ill. Regulator for expansion-valves. No. 1,146,803; July 20; Gaz. vol. 216; p. 679.
- Larson, John M., assignor to National Regulator Company, Chicago, Ill. Humidity-controlling apparatus. No. 1,153,234; Sept. 14; Gaz. vol. 218; p. 344.
- Larson, Louis A., Minneapolis, Minn. Thermo-electric heat-regulating system. No. 1,157,112; Oct. 19; Gaz. vol. 219; p. 679.
- Larson, Martin B., Molson, Wash. Composition for tanning hides and skins. No. 1,147,178; July 20; Gaz. vol. 216; p. 811.
- Larson, Martin B., Molson, Wash. Seal. No. 1,155,585; Oct. 5; Gaz. vol. 219; p. 90.
- Larson, Nels P. (See Anderson, Edward, assignor.)
- Larson, Ole G., assignor of one-half to D. R. Black, Duluth, Minn. Self-lubricating die-stock. No. 1,137,496; Apr. 27; Gaz. vol. 213; p. 1332.
- Larson, Ole L., Minneapolis, Minn. Corrugated rotary sieve. No. 1,139,041; May 11; Gaz. vol. 214; p. 504.
- Larson, Ole L., Minneapolis, Minn. Corrugated rotary sieve. No. 1,149,375; Aug. 10; Gaz. vol. 217; p. 420.
- Larson, Peter S., assignor of one-half to J. B. Dow, Beloit, Wis. Separable rim. No. 1,161,698; Nov. 23; Gaz. vol. 220; p. 1290.
- Larsson, Axel, San Francisco, Cal. Shipping-record. No. 1,127,365; Feb. 2; Gaz. vol. 211; p. 243.
- Larsson, Carl G. E., North Plainfield, N. J. Lift-bridge. No. 1,124,922; Jan. 12; Gaz. vol. 210; p. 648.
- Larsson, Johan A., and K. E. R. Osterberg, assignors to J. & C. G. Bolinders Mechaniska Verkstads Aktiebolag, Stockholm, Sweden. Resawing-machine and the like. No. 1,142,972; June 15; Gaz. vol. 215; p. 737.
- Larsson, John A., Beverly, Mass. Foldable umbrella. No. 1,161,139; Nov. 23; Gaz. vol. 220; p. 1092.
- Larsson, Thure, Worcester, Mass., assignor of one-third to W. E. D. Stokes and one-third to F. A. Jones, New York, N. Y. Operating means for elevators. No. 1,125,133; Jan. 19; Gaz. vol. 210; p. 758.
- Larsson, Thure, Worcester, Mass., assignor of one-third to W. E. D. Stokes and one-third to F. A. Jones, New York, N. Y. Valve mechanism for elevators. No. 1,127,031; Feb. 2; Gaz. vol. 211; p. 130.
- Larsson, Thure, Worcester, Mass., assignor of one-third to W. E. D. Stokes and one-third to F. A. Jones, New York, N. Y. Automatic stopping mechanism for elevators. No. 1,127,032; Feb. 2; Gaz. vol. 211; p. 131.
- Lasares, George C., Springfield, Mass. Toy gun of the magazine type. No. 1,135,703; Apr. 13; Gaz. vol. 213; p. 617.
- Lasche, Oskar, Charlottenburg, Germany, assignor to General Electric Company. Fuel-supply system for engines. No. 1,154,994; Sept. 28; Gaz. vol. 218; p. 1018.
- Laserson, Frederick M., Manchester, England. Pattern-perforating. No. 1,140,170; May 18; Gaz. vol. 214; p. 936.
- Lashar, Walter B. (See Weed, Harry D., assignor.)
- Lashar, Walter B., Bridgeport, Conn. Chain tire-grip. No. 1,127,458; Feb. 9; Gaz. vol. 211; p. 319.
- Lashar, Walter B., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Retainer for tire-repair devices. No. 1,159,320; Nov. 2; Gaz. vol. 220; p. 317.
- Lashar, Walter B., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain tire-grip. No. 1,163,619; Dec. 7; Gaz. vol. 221; p. 309.
- Lashar, Walter B., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Tire-grip. No. 1,163,620; Dec. 7; Gaz. vol. 221; p. 310.
- Lashar, Walter B., Bridgeport, and T. C. Luce, Stratford, Conn. Antifriction-bearing. No. 1,153,868; Sept. 14; Gaz. vol. 218; p. 572.
- Lasher, Clarke D. (See Winans, Edwin, assignor.)
- Lasher, Joseph J., Richmond Hill, and W. B. Wassung, New York, N. Y. Coin-controlled mechanism. No. 1,149,270; Aug. 10; Gaz. vol. 217; p. 382.
- Lasher, Seymour N. (See Daggett, William R., assignor.)
- Lashmet, Luther C., Jacksonville, Ill. Water purifying device. No. 1,157,233; Oct. 19; Gaz. vol. 219; p. 722.
- Laska, August L., and A. Zitscher, Offenbach-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Azo dyestuffs insoluble in water and making them. No. 1,145,072; July 6; Gaz. vol. 216; p. 36.
- Laska, August L., and E. J. Rath, Offenbach-on-the-Main, assignors to Chemische-Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Vat dyes of the anthraquinone series and making same. No. 1,162,496; Nov. 30; Gaz. vol. 220; p. 1613.
- Lasky, William B., Marblehead, Mass. Candy-making machine. No. 1,142,893; June 15; Gaz. vol. 215; p. 709.

Alphabetical list of patentees—Continued.

- Lasley, Dana M., assignor to The Differential Clutch Company, Canton, Ohio. Differential clutch. No. 1,126,234; Jan. 26; Gaz. vol. 210; p. 1187.
- Lasley, Dana M., assignor to The Differential Clutch Company, Canton, Ohio. Differential clutch. No. 1,123,465; Feb. 16; Gaz. vol. 211; p. 720.
- Lass, William P., Treadwell, Alaska. Filter. No. 1,144,854; June 29; Gaz. vol. 215; p. 1444.
- Lassalette, Joseph J., Los Angeles, Cal. Egg-case. No. 1,136,882; Apr. 20; Gaz. vol. 213; p. 1074.
- Lasschuit, Pierre T. A., Schoten, near Haarlem, assignor of one-fourth to P. F. Thomson, The Hague, one-fourth to Johann A. Luij, Haarlem, and one-fourth to W. J. Van Dam, The Hague, Netherlands. Gas-burner. No. 1,146,943; July 20; Gaz. vol. 216; p. 729.
- Lassell, Philip S., Baltimore, Md. Hame and trace connector. No. 1,140,688; May 25; Gaz. vol. 214; p. 1151.
- Lassiter, Robert R., Richmond, Va. Apparatus for feeding pulverized fuel. No. 1,165,520; Dec. 28; Gaz. vol. 221; p. 1097.
- Lasure, Floyd E., assignor to Lasure Manufacturing Company, Waterloo, Iowa. Friction-clutch. No. 1,149,924; Aug. 10; Gaz. vol. 217; p. 618.
- Lasure Manufacturing Company. (See Lasure, Floyd E., assignor.)
- Laszczak, Frank, Kewanee, Ill. Lantern. No. 1,134,878; Apr. 6; Gaz. vol. 213; p. 285.
- Latady, Francis B., Birmingham, Ala. Heat-engine. No. 1,156,574; Oct. 12; Gaz. vol. 219; p. 446.
- Latch, Theodore, Galetton, Colo. Spark-plug. No. 1,160,911; Nov. 16; Gaz. vol. 220; p. 967.
- Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting-machine. No. 1,129,876; Mar. 2; Gaz. vol. 212; p. 15.
- Latham Automatic Registering Company. (See Leethem, Frank C., assignor.)
- Latham, Charles E., Stonington, Conn., assignor to B. D. Nelson, administratrix, Boston, Mass. Internal-combustion engine. No. 1,159,780; Nov. 9; Gaz. vol. 220; p. 514.
- Latham, Hope, New York, N. Y. Refrigerator. No. 1,165,185; Dec. 21; Gaz. vol. 221; p. 943.
- Latham Machinery Company. (See Weber, Henry, assignor.)
- Lathau, Fred J., *et al.* (See French, Tom, assignor.)
- Lathrop, Frank L., assignor to H. L. Judd & Company, Wallingford, Conn. Curtain-rod bracket. No. 1,150,274; Aug. 17; Gaz. vol. 217; p. 805.
- Latimer, Daniel B. (See Horn, Nissley, and Latimer.)
- Latimer, Herbert G. (See Borgfield, Richard, assignor.)
- Lator, Marius C. A., Paris, France, assignor to General Electric Company. Electric-motor control. No. 1,157,313; Oct. 19; Gaz. vol. 219; p. 751.
- Lator, Richard, and A. Cappelle, Menin, Belgium. Cover for pneumatic tires. No. 1,149,841; Aug. 10; Gaz. vol. 217; p. 589.
- Latshaw, Joseph W., assignor to National Tube Company, Pittsburgh, Pa. Method of and apparatus for finishing pipes and tubes. No. 1,143,912; June 22; Gaz. vol. 215; p. 1087.
- Latta, Emmitt G. (See Moyer, Harvey A., assignor.)
- Latta, Emmitt G., Syracuse, N. Y. Type-writing machine. No. 1,160,912; Nov. 16; Gaz. vol. 220; p. 967.
- Latta, Emmitt G., assignor to H. A. Moyer, Syracuse, N. Y. Platen-operating mechanism. No. 1,134,751; Apr. 6; Gaz. vol. 213; p. 244.
- Latta, Frank F., Wadena, Minn., assignor to New Jersey Patent Company, West Orange, N. J. Attachment for shaving-machines. No. 1,137,497; Apr. 27; Gaz. vol. 213; p. 1333.
- Latta, Nisbet, Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Gas-producer. No. 1,142,524; June 8; Gaz. vol. 215; p. 543.
- Lattau, Arthur, New York, N. Y. Automatic photographing apparatus. No. 1,135,032; Apr. 13; Gaz. vol. 213; p. 384.
- Lattinville, Arthur, Hamilton, Ontario, Canada. Shoe-lace. No. 1,125,853; Jan. 19; Gaz. vol. 210; p. 1015.
- Laub, George, Cleveland, Ohio. Illuminating device for license-plates. No. 1,135,822; Apr. 13; Gaz. vol. 213; p. 659.
- Laubersheimer, George A., Los Angeles, Cal. Rear indicator for vehicles. No. 1,125,030; Jan. 12; Gaz. vol. 210; p. 686.
- Lauff, Samuel, Waterbury, Conn. Quick-release wrench. No. 1,136,539; Apr. 20; Gaz. vol. 213; p. 953.
- Lauff, Samuel, Waterbury, Conn. Quick-action wrench. No. 1,136,540; Apr. 20; Gaz. vol. 213; p. 953.
- Laughlin, Elmyr A., Chicago, Ill. Side bearing. No. 1,131,252; Mar. 9; Gaz. vol. 212; p. 523.
- Laughlin, Elmyr A., Chicago, Ill. Side bearing. No. 1,133,294; Mar. 30; Gaz. vol. 212; p. 1378.
- Laughlin, Elmyr A., Chicago, Ill. Side bearing. No. 1,163,020; Dec. 7; Gaz. vol. 221; p. 100.
- Laughlin, George F., assignor of one-half to G. B. Robbins, Chicago, Ill. Siphon-priming device. No. 1,127,460; Feb. 9; Gaz. vol. 211; p. 320.
- Laughlin, Homer, Jr., and D. Schuyler, assignors to The Perfect Sliding Door Company, Los Angeles, Cal. Trans-formable lock. No. 1,124,626; Jan. 12; Gaz. vol. 210; p. 544.
- Laughlin, James T., Boise, Idaho. Eyeglass-mounting. No. 1,161,699; Nov. 23; Gaz. vol. 220; p. 1290.
- Lauckhof, Nellie L. (See Tanner, Charles A., assignor.)
- Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-rod and bracket. No. 1,127,459; Feb. 9; Gaz. vol. 211; p. 319.
- Laun, Emil E. (See Thoren, Ernst F., assignor.)
- Laurendeau, Antoine. (See Rochon and Laurendeau.)
- Laurenti, Cesare, assignor to Società Fiat San Giorgio, Spezia, Italy. Diving-rudder for submarine vessels. No. 1,125,567; Jan. 19; Gaz. vol. 210; p. 913.
- Laurenti, Cesare, Turin, assignor to Società Fiat-San Giorgio, Spezia, Italy. Submarine vessel. No. 1,161,484; Nov. 23; Gaz. vol. 220; p. 1216.
- Laurette, Myrle L., Barlow, Ky. Cabinet. No. 1,135,300; Apr. 13; Gaz. vol. 213; p. 475.
- Lauridsen, Helge, Mason City, Nebr. Resilient wheel. No. 1,137,988; May 4; Gaz. vol. 214; p. 93.
- Laurier, Ruben C., and F. Monette, Montreal, Quebec, Canada. Receipt. No. 1,142,332; June 8; Gaz. vol. 215; p. 471.
- Laurin, Laurentius, Lysekil, Sweden. Internal-combustion engine. No. 1,139,526; Mar. 2; Gaz. vol. 212; p. 241.
- Laurin, Laurentius, Lysekil, Sweden. Internal-combustion engine. No. 1,149,655; Aug. 10; Gaz. vol. 217; p. 523.
- Laurin, Laurentius, Lysekil, Sweden. Pumping mechanism. No. 1,151,278; Aug. 24; Gaz. vol. 217; p. 1208.
- Laurson, Laurits A., Eau Claire, Wis. Piston-packing. No. 1,130,615; Mar. 2; Gaz. vol. 212; p. 271.
- Laury, Titus H., Red Bank, N. J. Saw-sharpening machine. No. 1,157,558; Oct. 19; Gaz. vol. 219; p. 835.
- Lausterer, William J., assignor to Empire Voting Machine Company, Jamestown, N. Y. Interlock for cumulative voting on voting-machines. No. 1,137,766; May 4; Gaz. vol. 214; p. 15.
- Lautenbacher, Friedrich, Munich, Germany. Catenary suspension of the trolley-wire for electric railways. No. 1,157,702; Oct. 26; Gaz. vol. 219; p. 949.
- Lautenschlager, William F., Cincinnati, Ohio. Cement-applying machine. No. 1,154,419; Sept. 21; Gaz. vol. 218; p. 794.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Boston, Mass. Cement-applying machine. No. 1,140,602; May 25; Gaz. vol. 214; p. 1122.
- Lauter Company. (See Lynde, Frank G., assignor.)
- Lauterbach, Christopher, Baltimore, Md. Vapor-heating system. No. 1,151,199; Aug. 24; Gaz. vol. 217; p. 1181.
- Lautz, Charles O., Ansonia, Conn. Prop for clothes-lines. No. 1,151,695; Aug. 31; Gaz. vol. 217; p. 1305.
- Lavan, Frank, assignor of one-third to C. A. Blank, Miller, Ind. Machine for packing explosives known as gelatin into paper shells. No. 1,144,216; June 22; Gaz. vol. 215; p. 1197.
- Lavedan, Leon. (See Turnbull, Walter J., assignor.)
- Lavelle, Peter J. (See Gallagher, James F., assignor.)
- Lavengerg, Perry C. (See Inwood and Lavengerg.)
- Lavender, Ira L. (See Burnell and Lavender.)
- Lavender, John G., and G. Nickels, Columbia, S. C. Lever mechanism for switches. No. 1,158,246; Oct. 26; Gaz. vol. 219; p. 1139.
- Lavinger, Morgan, and J. Schwab, Jr., Denver, Colo. Rail-joint. No. 1,147,518; July 20; Gaz. vol. 216; p. 930.
- Lavers, Charles W., assignor of one-half to F. P. Ronnan, Halifax, Nova Scotia, Canada. Detachable heel. No. 1,160,117; Nov. 9; Gaz. vol. 220; p. 633.
- Lavers, Henry, Surrey Hills, Victoria, Australia, assignor to Minerals Separation American Syndicate (1913) Limited, London, England. Separation of mixed sulfides. No. 1,112,821; June 15; Gaz. vol. 215; p. 683.
- Lavertine, Alfonso G., Acton, London, England. Fishing-reel. No. 1,123,764; Jan. 5; Gaz. vol. 210; p. 194.
- Lavery, Mark F., New York, N. Y. Spring telescope-spoke wheel. No. 1,145,775; July 6; Gaz. vol. 216; p. 280.
- Lavery, William J. (See Toomy and Lavery.)
- Lavie, René P. M. (See Richard and Lavie.)
- Lavigne, Joseph P., Detroit, Mich. Hub construction. No. 1,160,726; Nov. 16; Gaz. vol. 220; p. 903.
- Law, James P., Nocona, Tex. Steering mechanism for automobiles. No. 1,157,628; Oct. 19; Gaz. vol. 219; p. 857.
- Law, Louis E., Putnam, Conn. Testing-scale. No. 1,141,562; June 1; Gaz. vol. 215; p. 170.
- Law, Stanley W., St. Paul, Minn. Variable-resistance unit. No. 1,142,586; June 8; Gaz. vol. 215; p. 564.
- Lawall, Lewis C., Wayne township, Wayne county, Ind. Portable vulcanizing device. No. 1,140,381; May 25; Gaz. vol. 214; p. 1043.
- Lawhead, James W., Wilmington, Ohio. Automatic baking-machine. No. 1,150,211; Aug. 17; Gaz. vol. 217; p. 782.
- Lawhead, Robert C., Alluwe, Okla. Guide. No. 1,143,125; June 15; Gaz. vol. 215; p. 791.
- Lawler, James J., Pelham, N. Y. Water-heater. No. 1,123,765; Jan. 5; Gaz. vol. 210; p. 194.
- Lawless, William, Quenemo, Kans. Washboard-clamp. No. 1,132,362; Mar. 16; Gaz. vol. 212; p. 955.
- Lawless, William, Quenemo, Kans. Railway-tie. No. 1,135,823; Apr. 13; Gaz. vol. 213; p. 659.

Alphabetical list of patentees—Continued.

- Lawley, Henry V., *et al.* (See Stow, Percival E., assignor.)
- Lawlor, Michael W. (See Wilde and Lawlor.)
- Lawlor, Simeon C., Chicago, Ill. Sieve. No. 1,136,243; Apr. 20; Gaz. vol. 213; p. 847.
- Lawlor, William F., Port Chester, N. Y. Saw-guard. No. 1,152,325; Aug. 31; Gaz. vol. 217; p. 1613.
- Lawndale Utility Manufacturing Company. (See Anderson, Isaac, assignor.)
- Lawrence, Benjamin F., assignor of one-half to W. L. Grobe, Buffalo, N. Y. Snow-plow and ballast-spreader. No. 1,125,568; Jan. 19; Gaz. vol. 210; p. 913.
- Lawrence, Charles, Bradleyville, Mo. Fishing apparatus. No. 1,163,244; Dec. 7; Gaz. vol. 221; p. 178.
- Lawrence, Clyde D., Youngstown, Ohio. Electric elevator-door-operating device. No. 1,158,064; Oct. 26; Gaz. vol. 219; p. 1076.
- Lawrence, Daniel O., assignor of one-third to C. J. Garlow, Columbus, Neb., and one-third to C. J. Cottingham, Los Angeles, Cal. Indicator. No. 1,138,124; May 4; Gaz. vol. 214; p. 143.
- Lawrence, Daniel O., Sixteen, Mont., assignor of one-third to C. J. Garlow, Columbus, Neb., and one-third to T. J. Cottingham, Los Angeles, Cal. Pay-station instrument. No. 1,142,333; June 8; Gaz. vol. 215; p. 474.
- Lawrence, Edward E., Cambridge, Mass., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Continuous dough-shooting mechanism. No. 1,134,970; Apr. 6; Gaz. vol. 213; p. 316.
- Lawrence, Edward E., Cambridge, Mass., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Forming filled wafers. No. 1,166,056; Dec. 28; Gaz. vol. 221; p. 1283.
- Lawrence, Edward H., Cameron, W. Va. Valve-operating mechanism for bush-valves. No. 1,146,505; July 13; Gaz. vol. 216; p. 558.
- Lawrence, Elijah C., Fitzwilliam, N. H. Fastening device for packages. No. 1,134,390; Apr. 6; Gaz. vol. 213; p. 112.
- Lawrence, Fred. (See Wallberg, Frank, assignor.)
- Lawrence, Frederick L. (See Crutenden and Lawrence.)
- Lawrence, George H., Colfax, Wash. Fire-extinguishing system. No. 1,143,053; June 15; Gaz. vol. 215; p. 765.
- Lawrence, George R., Chicago, Ill. Internal-combustion engine. No. 1,160,419; Nov. 16; Gaz. vol. 220; p. 791.
- Lawrence, Harry W., Denver, Colo. Combined electric-lamp socket-holding shell and shade-holder. No. 1,145,374; July 6; Gaz. vol. 216; p. 138.
- Lawrence, Harry W., Denver, Colo. Single-piece shell for electric-light sockets. No. 1,150,275; Aug. 17; Gaz. vol. 217; p. 806.
- Lawrence, Harry W., Denver, Colo. Combined removable key single-piece shell and automatically-interlocking shell and switch-mechanism socket. No. 1,154,257; Sept. 21; Gaz. vol. 218; p. 738.
- Lawrence, Henry J., Long Beach, Cal. Wave-motor. No. 1,154,326; Sept. 21; Gaz. vol. 218; p. 762.
- Lawrence, John N., Las Animas, Colo. Base-ball-pitcher's target. No. 1,142,184; June 8; Gaz. vol. 215; p. 423.
- Lawrence, John R., assignor of one-half to J. C. Clark, Sarnia, Ontario, Canada. Screening attachment for coal-wagons. No. 1,129,994; Mar. 2; Gaz. vol. 212; p. 55.
- Lawrence Manufacturing Company. (See Walker, Everett H., assignor.)
- Lawrence, Millard B., Philadelphia, Pa., assignor to The Lamson Company, Boston, Mass. Cable-carrier apparatus. No. 1,150,128; Aug. 17; Gaz. vol. 217; p. 752.
- Lawrence, Milton L. (See Mecartea, Francis M., assignor.)
- Lawrence, W. A. (See Gallup, Charles H., assignor.)
- Lawrence, William, and G. Scott, Hot Springs, Ark. Caning apparatus. No. 1,132,726; Mar. 23; Gaz. vol. 212; p. 1136.
- Lawrence, William C., Portland, Ore. Saddle-rigging. No. 1,156,698; Oct. 12; Gaz. vol. 219; p. 501.
- Lawrence, William F. (See Barnes, Simpson, Steere, and Lawrence.)
- Lawrence, William H., Melbourne, Victoria, Australia, assignor to D. H. Burrell & Company, Little Falls, N. Y. Apparatus for pulsating or varying air or fluid pressure. No. 1,125,348; Jan. 19; Gaz. vol. 210; p. 836.
- Lawrence, William T., *et al.* (See Clark, Arthur L., assignor.)
- Lawrenson, Judge P., and C. H. King, Palestine, Tex. Fire tightener or expander. No. 1,133,864; Mar. 30; Gaz. vol. 212; p. 1583.
- Lawrie, James W., Aurora, Ill. Treating aluminum screenings, dross, slags, or analogous aluminous materials. No. 1,156,606; Oct. 12; Gaz. vol. 219; p. 471.
- Lawrie, John, and D. F. Brazel, Thabanchu, Orange Free State, South Africa. Cattle-guard. No. 1,140,171; May 18; Gaz. vol. 214; p. 937.
- Laws, Benjamin A. (See McElwain, James, assignor.)
- Lawson, Bellett, Jr., River Grove, assignor of one-half to J. P. Sherlock, Chicago, Ill. Funeral-coach. No. 1,149,161; Aug. 3; Gaz. vol. 217; p. 237.
- Lawson, Benjamin S., Brooklyn, assignor to A. L. Merck, Syracuse, N. Y. Roller-bearing. No. 1,159,964; Nov. 9; Gaz. vol. 220; p. 580.
- Lawson, Charles P., Brocton, N. Y. Combined electric incandescent lamp and reflector. No. 1,127,903; Feb. 9; Gaz. vol. 211; p. 477.
- Lawson, Clarence J., Yonkers, assignor to Columbia Machine & Stopper Corporation, New York, N. Y. Bottle-sealing machine. No. 1,141,350; June 1; Gaz. vol. 215; p. 93.
- Lawson, Franklin B. (See Schultz and Lawson.)
- Lawson, Harry C., McGregor, Tex. Attachment for object-finders. No. 1,146,887; July 20; Gaz. vol. 216; p. 709.
- Lawson, Harry C., McGregor, Tex. Drill-holder. No. 1,156,088; Oct. 12; Gaz. vol. 219; p. 292.
- Lawson, Isaac L., Atkins, La. Rail-tie. No. 1,123,324; Jan. 5; Gaz. vol. 210; p. 44.
- Lawson, John, Central Falls, R. I. Automatic circular-knitting machine. No. 1,140,269; May 18; Gaz. vol. 214; p. 968.
- Lawson, John, Central Falls, R. I. Drop-stitch knitting-machine. No. 1,140,270; May 18; Gaz. vol. 214; p. 969.
- Lawson, John, Central Falls, R. I. Yarn-changer for double-feed automatic circular-knitting machines. No. 1,145,375; July 6; Gaz. vol. 216; p. 139.
- Lawson, John, Central Falls, R. I. Split-foot-knitting machine. No. 1,166,057; Dec. 28; Gaz. vol. 221; p. 1284.
- Lawson, Sherman S. (See Austin and Lawson.)
- Lawson, Sherman S., Chicago, Ill. Feed-water heater. No. 1,130,412; Mar. 2; Gaz. vol. 212; p. 190.
- Lawson, Sherman S., Lima, Ohio. Feed-water-heating system. No. 1,162,937; Dec. 7; Gaz. vol. 221; p. 70.
- Lawson, William C., Roanoke, Va. Aeroplane. No. 1,127,651; Feb. 9; Gaz. vol. 211; p. 383.
- Lawter, Benjamin H., Newcastle, Ind., assignor to The Lawter Tractor Co., St. Marys, Ohio. Motor-propelled agricultural machinery. No. 1,145,776; July 6; Gaz. vol. 216; p. 281.
- Lawter, Benjamin H., Newcastle, Ind., assignor to The Lawter Tractor Co., St. Marys, Ohio. Motor-propelled agricultural machinery. No. 1,159,965; Nov. 9; Gaz. vol. 220; p. 581.
- Lawter Tractor Co., The. (See Lawter, Benjamin H., assignor.)
- Lawton, Alfred H. (See Butcheck and Lawton.)
- Lawton, Andrew S., Brockton, Mass. Portable wardrobe. No. 1,141,468; June 1; Gaz. vol. 215; p. 137.
- Lawton, Charles A., De Pere, Wis., assignor to The C. A. Lawton Company. Friction-clutch. No. 1,147,104; July 20; Gaz. vol. 216; p. 785.
- Lawton, Charles L., Hancock, Mich. Conveyer. No. 1,124,469; Jan. 12; Gaz. vol. 210; p. 487.
- Lawton, Charles L., Hancock, Mich. Skip-dump. No. 1,151,955; Aug. 31; Gaz. vol. 217; p. 1484.
- Lawton, Charles L., Hancock, Mich. Percussion-drill. No. 1,154,642; Sept. 28; Gaz. vol. 218; p. 900.
- Lawton, Peter S., New Orleans, La. Stump-puller. No. 1,143,209; June 15; Gaz. vol. 215; p. 822.
- Lawton, Stanley H., assignor to American Vulcanized Fibre Company, Wilmington, Del. Treating ferruginous zinc-chloride solutions. No. 1,137,871; May 4; Gaz. vol. 214; p. 52.
- Lay, William F., Boston, Mass. Treating pebble phosphate-rock. No. 1,129,407; Feb. 23; Gaz. vol. 211; p. 1085.
- Laycock, Harry A., Schenectady, N. Y., assignor to General Electric Company. Regulator. No. 1,166,229; Dec. 28; Gaz. vol. 221; p. 1350.
- Layer, Adam. (See Fink, Albert, assignor.)
- Layman, Frank E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Molding-machine. No. 1,150,437; Aug. 17; Gaz. vol. 217; p. 859.
- Layman, Hebron B., New York, N. Y. Internal combustion engine. No. 1,144,421; June 29; Gaz. vol. 215; p. 1295.
- Layman, Hebron B., New York, N. Y. Internal-combustion engine. No. 1,144,422; June 29; Gaz. vol. 215; p. 1296.
- Layman, Hebron B., New York, N. Y. Internal-combustion engine. No. 1,144,423; June 29; Gaz. vol. 215; p. 1296.
- Layman, Hebron B., New York, N. Y. Internal-combustion engine. No. 1,144,424; June 29; Gaz. vol. 215; p. 1297.
- Layman, Hebron B., assignor of one-half to F. E. Lonas, New York, N. Y. Vehicle-wheel. No. 1,142,334; June 8; Gaz. vol. 215; p. 475.
- Layman, Hebron B., assignor of one-half to F. E. Lonas, New York, N. Y. Front wheel for automobiles. No. 1,142,335; June 8; Gaz. vol. 215; p. 475.
- Layman, Hebron B., assignor of one-half to F. E. Lonas, New York, N. Y. Rear wheel and axle construction for automobiles. No. 1,142,336; June 8; Gaz. vol. 215; p. 476.
- Layman, Hebron B., assignor of one-half to F. E. Lonas, New York, N. Y. Automobile. No. 1,142,337; June 8; Gaz. vol. 215; p. 476.
- Layman, Stephen D., Newark, N. J. Hinged last. No. 1,144,363; June 29; Gaz. vol. 215; p. 1276.
- Layman, Stephen D., Newark, N. J. Hinged last. No. 1,144,364; June 29; Gaz. vol. 215; p. 1277.
- Layman, Stephen D., Newark, N. J. Last. No. 1,146,266; July 13; Gaz. vol. 216; p. 472.
- Layne, Mahlon E., and S. N. Hall, Houston, Tex. Hydraulic swivel. No. 1,123,295; Mar. 30; Gaz. vol. 212; p. 1378.
- Lawton, Benjamin W., Lyons, Kans. Nut or bolt lock. No. 1,149,454; Aug. 10; Gaz. vol. 217; p. 447.

- Layton, Byron B., Chicago, Ill. Concrete slab construction. No. 1,162,085; Nov. 30; Gaz. vol. 220; p. 1472.
- Layton, Charles, Mount Pleasant, Pa. Dumping mine-car. No. 1,124,147; Jan. 5; Gaz. vol. 210; p. 322.
- Layton, John M., and H. G. Haworth, Leavenworth, Kans. Sweeping-machine. No. 1,128,883; Feb. 16; Gaz. vol. 211; p. 864.
- Lazar, Solomon. (See Aicher and Lazar.)
- Lazarides, Thrasybule D., New York, N. Y. Turbine. No. 1,161,140; Nov. 23; Gaz. vol. 220; p. 1092.
- Lazarte, Enrique, assignor to Aeroplane Destroyer Company, Lima, Peru. Aeroplane-destroyer. No. 1,161,778; Nov. 23; Gaz. vol. 220; p. 1316.
- Lazarus, Albert, New York, N. Y. Elastic waistband for trousers. No. 1,119,271; Aug. 10; Gaz. vol. 217; p. 382.
- Lazarus, Lazarus, Indianapolis, Ind. Feed-bag support. No. 1,161,700; Nov. 23; Gaz. vol. 220; p. 1290.
- Lazell, Ellis W. (See Spackman and Lazell.)
- Lazier, H. W. (See Stickney, Francis H., assignor.)
- Lazny, Victor, assignor of one-third to F. S. Becker and one-third to H. T. La Bonte, St. Louis, Mo. Boiler for heating systems. No. 1,150,948; Aug. 24; Gaz. vol. 217; p. 1095.
- Le Baron, John F., Chardon, Ohio. Insect-catcher. No. 1,148,910; Aug. 3; Gaz. vol. 217; p. 151.
- Le Beau, Ernest A. (See Busse and Le Beau.)
- Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars. No. 1,139,543; May 18; Gaz. vol. 214; p. 713.
- Le Beau, Ernest A. and E. G. Busse, assignors to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars. No. 1,166,058; Dec. 28; Gaz. vol. 221; p. 1284.
- Le Bilhan, Yves, Amiens, France. Internal-combustion engine. No. 1,164,454; Dec. 14; Gaz. vol. 221; p. 617.
- Le Blanc, Alexis, New York, N. Y. Interrupter for electromagnetic reciprocating devices. No. 1,124,470; Jan. 12; Gaz. vol. 210; p. 488.
- Le Blanc, Alexis, New York, N. Y., assignor to Gurney Electric Elevator Company, Honesdale, Pa. Electrolytic re-filler. No. 1,165,983; Dec. 28; Gaz. vol. 221; p. 1259.
- Le Blond, Richard K., and W. F. Groene, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Controlling means for motor-driven machines. No. 1,126,235; Jan. 26; Gaz. vol. 210; p. 1188.
- Le Blond, Richard K., and W. F. Groene, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Milling-machine. No. 1,152,030; Aug. 31; Gaz. vol. 217; p. 1512.
- Le Blond, Richard K., and W. F. Groene, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Milling-machine. No. 1,152,647; Sept. 7; Gaz. vol. 218; p. 99.
- Le Brocq Company, The. (See Le Brocq, Richard F., assignor.)
- Le Brocq, Richard F., New York, assignor to The Le Brocq Company, Brooklyn, N. Y. Elevator-lock. No. 1,128,993; Feb. 16; Gaz. vol. 211; p. 904.
- Le Brocq, Richard F., New York, and K. J. J. Schmutzler, New Dorp Manor, assignors to Lebrocq Company, Brooklyn, N. Y. Door-closer. No. 1,143,288; June 15; Gaz. vol. 215; p. 848.
- Le Cato, John A., assignor to Standard Pneumatic Action Co., New York, N. Y. Governor-spring. No. 1,140,271; May 18; Gaz. vol. 214; p. 970.
- Le Clair, Louis J., assignor of one-half to G. D. Peters & Co., Limited, Moorfields, London, England. Weather-strip or draft-excluder for windows, doors, and the like. No. 1,124,148; Jan. 5; Gaz. vol. 210; p. 322.
- Le Compte Company, The. (See Le Compte, Louis and J., assignors.)
- Le Compte, Edward P., and R. Colvin, Park City, Utah. Crusher. No. 1,135,824; Apr. 13; Gaz. vol. 213; p. 660.
- Le Compte, Edward P., and R. Colvin, Park City, Utah. Crutch. No. 1,157,314; Oct. 19; Gaz. vol. 219; p. 751.
- Le Compte, George W. (See Fowler and Le Compte.)
- Le Compte, Joseph. (See Le Compte, Louis and J., assignors.)
- Le Compte, Joseph H., Maywood, assignor of one-third to P. T. Pauls and one-third to E. Kowaleski, Chicago, Ill. Railway-coupling. No. 1,154,327; Sept. 21; Gaz. vol. 218; p. 763.
- Le Compte, Louis and J. Aurora, assignors to The Le Compte Company, Chicago, Ill. Combined draw-head and air-coupling. No. 1,140,382; May 25; Gaz. vol. 214; p. 1043.
- Le Doux, Andrew P., Sultan, Wash. Card-derailing device. No. 1,132,780; Mar. 23; Gaz. vol. 212; p. 1157.
- Le Doux, Hector, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Harness mechanism for looms. No. 1,161,392; Nov. 23; Gaz. vol. 220; p. 1184.
- Le Doux, Hector, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Head-motion for looms. No. 1,161,104; Dec. 14; Gaz. vol. 221; p. 525.
- Le Doux, Rose. (See Sutkay, Joseph, assignor.)
- Le Fehure Ledger Company. (See Auracher, Charles E., assignor.)
- Le Fever, Henry D., Alpena, Mich. Lacing and lace-fastener. No. 1,152,422; Sept. 7; Gaz. vol. 218; p. 14.
- Le Fever, Earle A., Buffalo, N. Y. Meter-protection device. No. 1,155,742; Oct. 5; Gaz. vol. 219; p. 145.
- Le May, John, Indianapolis, Ind. Distributer for rotary casting apparatus. No. 1,161,701; Nov. 23; Gaz. vol. 220; p. 1290.
- Le May, John, and M. M. House, assignors, by mesne assignments, to Payne Die Casting Company, Indianapolis, Ind. Centrifugal casting-machine. No. 1,128,009; Feb. 9; Gaz. vol. 211; p. 513.
- Le May, John, and M. M. House, Indianapolis, Ind., assignors to Sargent & Company, New Haven, Conn. Die casting construction. No. 1,149,842; Aug. 10; Gaz. vol. 217; p. 589.
- Le Mont, George, assignor of one-half to G. A. Pike, Los Angeles, Cal. Furnace. No. 1,161,779; Nov. 23; Gaz. vol. 220; p. 1317.
- Le Pontois, Leon J., Cleveland, Ohio, assignor to Hurd & Haggin. Ignition-breaking device. No. 1,149,843; Aug. 10; Gaz. vol. 217; p. 589.
- Le Pontois, Leon J., Lakewood, assignor to The American Multinola Company, Cleveland, Ohio. Check-controlled mechanism. No. 1,162,701; Nov. 30; Gaz. vol. 220; p. 1679.
- Le Quornick, Hermann, New York, N. Y. Window-guard. No. 1,143,588; June 15; Gaz. vol. 215; p. 953.
- Le Van, Aaron H., Los Angeles, Cal. Shell. No. 1,134,080; Mar. 30; Gaz. vol. 212; p. 1653.
- Lea, Charles. (See Hathaway and Lea.)
- Lea, Charles, Boston, Mass., assignor to American Warp Drawing Machine Company. Leased-warp separator. No. 1,147,413; July 20; Gaz. vol. 216; p. 894.
- Lea, Charles, Boston, Mass., assignor to American Warp-Drawing Machine Company. Textile-machine. No. 1,153,869; Sept. 14; Gaz. vol. 218; p. 572.
- Lea, Charles, Boston, Mass., assignor to American Warp-Drawing Machine Company. Yarn-holder. No. 1,153,870; Sept. 14; Gaz. vol. 218; p. 572.
- Lea, James E., Manchester, England. Liquid-measuring apparatus. No. 1,145,376; July 6; Gaz. vol. 216; p. 339.
- Lea, James E., Manchester, England. Apparatus for measuring granular or powdered materials. No. 1,151,956; Aug. 31; Gaz. vol. 217; p. 1485.
- Lea, Morton A., et al. (See Conti, Anthony S., assignor.)
- Leach, Elbert C., assignor to Oshkosh Manufacturing Company, Oshkosh, Wis. Control means for belt-driven machinery. No. 1,164,729; Dec. 21; Gaz. vol. 221; p. 782.
- Leach, Felix, Allenfarm, Tex. Safety railway-switch. No. 1,133,865; Mar. 30; Gaz. vol. 212; p. 1583.
- Leach, Felix, Allenfarm, Tex. Wheel-fender. No. 1,137,872; May 4; Gaz. vol. 214; p. 52.
- Leach, Harlan E. (See Mollenhauer and Leach.)
- Leach, Joseph S., Brooklyn, N. Y. Wireless receiving apparatus. No. 1,136,683; Apr. 20; Gaz. vol. 213; p. 1004.
- Leach, Richard L., Honolulu, Hawaii. Vehicle-tire. No. 1,137,498; Apr. 27; Gaz. vol. 213; p. 1333.
- Leach, Walter. (See Adams and Leach.)
- Leach, William L., Brownwood, Tex. Grading device for seed. No. 1,124,036; Jan. 5; Gaz. vol. 210; p. 284.
- Leach, William W., Pinedale, Tex. Mechanical starter for internal-combustion engines. No. 1,165,008; Dec. 21; Gaz. vol. 221; p. 880.
- Leachman, George, New Cumberland, W. Va. Portable dark cabinet. No. 1,159,966; Nov. 9; Gaz. vol. 220; p. 581.
- Leadbeater, Frederick, Detroit, Mich. Trolley-wheel. No. 1,125,569; Jan. 19; Gaz. vol. 210; p. 913.
- Leadbeater, Frederick, Detroit, Mich. Trolley-wheel. No. 1,162,175; Nov. 30; Gaz. vol. 220; p. 1503.
- Leadbeater, Luke R., South Brownsville, Pa. Rail-joint. No. 1,163,673; Dec. 14; Gaz. vol. 221; p. 372.
- Leadbeater, Richard A., assignor to The Farrand Company, Detroit, Mich. Transposing-tracker for mechanical music-players. No. 1,145,426; July 6; Gaz. vol. 216; p. 157.
- Leadbetter, Noble W., assignor of one-third to J. Nygaard, Bickleton, Wash. Stirrup. No. 1,138,492; May 4; Gaz. vol. 214; p. 271.
- Leadholm, Anton P., and C. J. Efrainson, Omaha, Nebr. Window-scaffold. No. 1,141,803; June 1; Gaz. vol. 215; p. 252.
- Leahan, James C., Philadelphia, Pa. Shock-absorber for automobiles. No. 1,157,165; Oct. 19; Gaz. vol. 219; p. 698.
- Leahy, Joseph F. (See Woods, Charles G., assignor.)
- Leahy, David A., assignor to The Allyn Brass Foundry Company, Detroit, Mich. Combined valve and drain. No. 1,146,179; July 13; Gaz. vol. 216; p. 442.
- Leahy, James T., Mandan, N. D. Nailless horseshoe. No. 1,124,923; Jan. 12; Gaz. vol. 210; p. 648.
- Leake, Henry C., Altrincham, assignor to Vickers, Sons & Maxim, Limited, Westminster, England. Electrical driving system. No. 1,138,299; May 4; Gaz. vol. 214; p. 202.
- Leake, John S., Louisville, Ky. Making lubricated joints. No. 1,155,495; Oct. 5; Gaz. vol. 219; p. 60.
- Leake Motor Fuel Economy Company. (See Leake, Thomas C., assignor.)
- Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric-circuit-timing device. No. 1,155,322; Sept. 28; Gaz. vol. 218; p. 1129.

Alphabetical list of patentees—Continued.

- Leake, Thomas C., San Francisco, Cal., assignor to Leake Motor Fuel Economy Company. Heater and thermostat attachment for motors. No. 1,137,219; Apr. 27; Gaz. vol. 213; p. 1233.
- Leal, Antoine Selma, Cal. Window-fastener. No. 1,126,793; Feb. 2; Gaz. vol. 211; p. 46.
- Leão, Francisco G. P., New York, N. Y. Apparatus for dehydrating or desiccating air for industrial purposes. No. 1,132,194; Mar. 16; Gaz. vol. 212; p. 892.
- Leap, Harry, Camp Meeker, Cal. Wheel-direction indicator. No. 1,165,186; Dec. 21; Gaz. vol. 221; p. 944.
- Leap, Harry, Camp Meeker, Cal. Antiskid and traction wheel. No. 1,165,187; Dec. 21; Gaz. vol. 221; p. 944.
- Lear, Milton, and J. Sloop, Findlay, Ohio. Combined hook and saddle-seat. No. 1,153,122; Sept. 7; Gaz. vol. 218; p. 267.
- Leary, Arthur E., Shrewsbury, Mass. Adjustable shade-roller device. No. 1,156,410; Oct. 12; Gaz. vol. 219; p. 403.
- Leary, D. D., et al. (See Fuller, Edward, Jr., assignor.)
- Leary, Harry B., Washington, D. C. Collapsible crate. No. 1,133,648; Mar. 30; Gaz. vol. 212; p. 1505.
- Leary, James I., Chicago, Ill. Scoop. No. 1,152,824; Sept. 7; Gaz. vol. 218; p. 164.
- Leary, James I., Chicago, Ill. Printing apparatus for roll-paper. No. 1,164,730; Dec. 21; Gaz. vol. 221; p. 782.
- Leary, Robert D., Worcester, Mass. Toilet article. No. 1,134,467; Apr. 6; Gaz. vol. 213; p. 140.
- Leary, Thomas H., Richmond, Va. Window-ventilator. No. 1,136,541; Apr. 20; Gaz. vol. 213; p. 953.
- Leash, Homer E., and J. L. Schwenk, New Westminster, British Columbia, Canada; said Leash assignor to said Schwenk. Means for printing an enlargement from a negative-film. No. 1,138,963; May 11; Gaz. vol. 214; p. 474.
- Leask, Henry N., Egremont, England. Charging-doors for furnaces. No. 1,133,978; Mar. 30; Gaz. vol. 212; p. 1618.
- Leask, Henry N., Egremont, England. Means for regulating the feed to refuse-destructor and other furnaces. No. 1,148,889; July 27; Gaz. vol. 216; p. 1266.
- Leask, Henry N., Liscard, England. Refuse-destructor. No. 1,149,071; Aug. 3; Gaz. vol. 217; p. 207.
- Leasure, David E., Bradford, Kans. Side-delivery hay-rake. No. 1,166,136; Dec. 28; Gaz. vol. 221; p. 1315.
- Leatham, James, Lebanon, Pa., assignor to H. Aukam & Co., New York, N. Y. Sewing-machine. No. 1,130,093; Mar. 2; Gaz. vol. 212; p. 88.
- Leatherman, Charles F., et al. (See Down, Ernest U., assignor.)
- Leathers, A. C. (See Cooke, Clarence C., assignor.)
- Leathers, George H., Berwick, Pa. Check-controlled pencil-sharpener. No. 1,146,719; July 13; Gaz. vol. 216; p. 629.
- Leathers, Percy B., Oak Lawn, R. I. Gage and measure for woodworkers. No. 1,142,717; June 8; Gaz. vol. 215; p. 606.
- Leathers, Ward G., New York, N. Y., assignor to Stewart Warner Speedometer Corporation, Chicago, Ill. Speedometer. No. 1,143,978; June 22; Gaz. vol. 215; p. 1111.
- Leathers, Ward G., New York, N. Y., assignor to Stewart Warner Speedometer Corporation, Chicago, Ill. Speedometer. No. 1,147,329; July 20; Gaz. vol. 216; p. 861.
- Leatnow, Frederick A., et al. (See Burke, Thomas, assignor.)
- Leave, Charles H. (See Dodge and Leave.)
- Leavelle, William T., Yale, Va. Combined cultivator and fertilizer-distributor. No. 1,123,325; Jan. 5; Gaz. vol. 210; p. 44.
- Leavens, Martin B., and H. D. Wilson, Los Angeles, Cal. Exhauster for original commercial containers. No. 1,163,021; Dec. 7; Gaz. vol. 221; p. 100.
- Leaver, James M., Long Beach, Cal. Dry-kiln for lumber, &c. No. 1,135,301; Apr. 13; Gaz. vol. 213; p. 475.
- Leaver, James M., Long Beach, Cal. Dry-kiln for lumber, &c. No. 1,135,302; Apr. 13; Gaz. vol. 213; p. 476.
- Leaver, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combined drop and jack. No. 1,131,389; Mar. 9; Gaz. vol. 212; p. 570.
- Leavitt, Frank M., Smithtown, assignor to E. W. Bliss Company, Brooklyn, N. Y. Governor for automobile torpedoes. No. 1,124,752; Jan. 12; Gaz. vol. 210; p. 588.
- Leavitt, Frank M., Smithtown, assignor to E. W. Bliss Company, Brooklyn, N. Y. Timing mechanism. No. 1,134,391; Apr. 6; Gaz. vol. 213; p. 112.
- Leavitt, Frank M., Smithtown, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscopic steering device. No. 1,145,025; July 6; Gaz. vol. 216; p. 17.
- Leavitt, Frank M., Smithtown, assignor to E. W. Bliss Company, Brooklyn, N. Y. Lubrication of automobile torpedoes. No. 1,150,777; Aug. 17; Gaz. vol. 217; p. 977.
- Leavitt, Harry W., Waterloo, Iowa. Tractor. No. 1,132,363; Mar. 16; Gaz. vol. 212; p. 955.
- Leavitt, Harry W., Waterloo, Iowa. Tractor. No. 1,141,126; June 1; Gaz. vol. 215; p. 12.
- Leaycraft, Edwin S., Jersey City, N. J. Sprocket-chain. No. 1,138,766; May 11; Gaz. vol. 214; p. 404.
- Leber, Louis, New Eagle, Pa. Rail-tie. No. 1,164,825; Dec. 21; Gaz. vol. 221; p. 817.
- Leblanc, Maurice, Paris, France. Automatic balancer for rotating bodies. No. 1,159,052; Nov. 2; Gaz. vol. 220; p. 222.
- Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procédes Westinghouse-Leblanc, Paris, France. Ejector. No. 1,137,767; May 4; Gaz. vol. 214; p. 16.
- Leblanc, Maurice, Auteuil, assignor, by mesne assignments, to Societe Anonyme pour l'Exploitation des Procédes Westinghouse-Leblanc, Paris, France. Fluid-ejector. No. 1,138,125; May 4; Gaz. vol. 214; p. 143.
- Leblanc, Maurice, Croissy, assignor to La Societe Anonyme pour l'Exploitation des Procédes Westinghouse-Leblanc, Paris, France. Condensing apparatus. No. 1,140,172; May 18; Gaz. vol. 214; p. 937.
- Leblanc, Maurice, Croissy, assignor to Societe Anonyme pour l'Exploitation des Procédes Westinghouse-Leblanc, Paris, France. Steam-turbine. No. 1,141,968; June 8; Gaz. vol. 215; p. 345.
- Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procédes Westinghouse-Leblanc, Paris, France. Centrifugal pump. No. 1,150,686; Aug. 17; Gaz. vol. 217; p. 948.
- Leblanc, Maurice, Val-sur-Seine, Croissy, assignor to Société Anonyme pour l'Exploitation des Procédes Westinghouse-Leblanc, Paris, France. Wet vacuum-pump of the rotary type. No. 1,157,703; Oct. 26; Gaz. vol. 219; p. 950.
- Leblanc, Maurice A. E. (See Darmois and Leblanc.)
- Leblanc, Maurice A. E., Suresnes, near Paris, France, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Vapor electric device. No. 1,161,485; Nov. 23; Gaz. vol. 220; p. 1216.
- Lebovitz, Louis, Springfield, Mo. Rail-antireciper. No. 1,163,548; Dec. 7; Gaz. vol. 221; p. 283.
- Lebowich, Louis A., Boston, Mass. File for cards and the like. No. 1,123,326; Jan. 5; Gaz. vol. 210; p. 44.
- Lebowich, Louis A., Boston, Mass. Filing-case. No. 1,134,052; Mar. 30; Gaz. vol. 212; p. 1643.
- Lebrocq Company. (See Le Brocq and Schmutzler, assignors.)
- Lechtenberg, Clemens, Calmar, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill. Hitch for hay-loaders. No. 1,145,026; July 6; Gaz. vol. 216; p. 17.
- Lechtenberg, Henry, Quincy, Ill., assignor to W. T. Lechtenberg, Jarring device for dust-collectors. No. 1,135,905; Apr. 13; Gaz. vol. 213; p. 687.
- Lechtenberg, W. T. (See Lechtenberg, Henry, assignor.)
- Leckie, A. E. L. (See Heany, John A., assignor.)
- Leckie, Robert J., et al. (See Stauchliffe, Cecil W., assignor.)
- Ledbetter, Ralph W., Birmingham, Ala. Repair-coupling for air-hose. No. 1,166,059; Dec. 28; Gaz. vol. 221; p. 1285.
- Ledbetter, Wiley C., Newbern, Tenn. Kettle-support. No. 1,142,587; June 8; Gaz. vol. 215; p. 565.
- Lederer, Albert A., Buffalo, N. Y. Micrometer-protractor. No. 1,147,105; July 20; Gaz. vol. 216; p. 785.
- Lederer, Anton, Atzgersdorf, near Vienna, Austria-Hungary. Manufacture of incandescent filaments of metallic tungsten or molybdenum for electric incandescent lamps. No. 1,132,523; Mar. 16; Gaz. vol. 212; p. 1014.
- Lederer, Friedrich, Milwaukee, Wis. Automobile-bumper. No. 1,153,632; Sept. 14; Gaz. vol. 218; p. 487.
- Lederer, Joseph, New York, N. Y. Gas-lamp. No. 1,137,989; May 4; Gaz. vol. 214; p. 93.
- Lederman, John E., Chicago, Ill., assignor, by mesne assignments, to Multiport Company, Rochester, N. Y. Envelop sealing and stamping machine. No. 1,157,113; Oct. 19; Gaz. vol. 219; p. 679.
- Ledermann, Bernhard, New York, N. Y. Street or station indicator. No. 1,160,913; Nov. 16; Gaz. vol. 220; p. 967.
- Ledgers Limited. (See Myatt, John W., assignor.)
- Ledgerwood, William. (See Salari, Antonio, assignor.)
- Ledig, Richard G., assignor to A. Mecky Co., Philadelphia, Pa. Ball-bearing wheel-hub. No. 1,164,292; Dec. 14; Gaz. vol. 221; p. 589.
- Ledoux, John W., Philadelphia, Pa. Liquid-meter. No. 1,129,209; Feb. 23; Gaz. vol. 211; p. 1015.
- Ledoux, John W., Swarthmore, Pa. Fluid-meter. No. 1,135,119; Apr. 13; Gaz. vol. 213; p. 413.
- Ledoux, John W., Swarthmore, Pa. Loss-of-head gage. No. 1,152,189; Aug. 31; Gaz. vol. 217; p. 1566.
- Ledwinka, Joseph. (See Budd and Ledwinka.)
- Ledwinka, Joseph, Philadelphia, Pa. Cowl structure for automobiles. No. 1,123,899; Jan. 5; Gaz. vol. 210; p. 239.
- Ledwinka, Joseph, Philadelphia, Pa. Metallic door for automobile-bodies. No. 1,127,904; Feb. 9; Gaz. vol. 211; p. 477.
- Ledwinka, Joseph, Philadelphia, Pa. Tilting wagon-body. No. 1,139,456; May 11; Gaz. vol. 214; p. 648.
- Ledwinka, Joseph, Philadelphia, Pa. Metallic vehicle-body. No. 1,139,457; May 11; Gaz. vol. 214; p. 648.
- Ledwinka, Joseph, Philadelphia, Pa. End door for delivery-wagons. No. 1,139,458; May 11; Gaz. vol. 214; p. 648.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Induction light system. No. 1,136,684; Apr. 20; Gaz. vol. 213; p. 1004.

Alphabetical list of patentees—Continued.

- Ledwinka, Joseph, assignor to The Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile-body. No. 1,143,635; Jan. 22; Gaz. vol. 215; p. 993.
- Ledyard, Wolters, assignor to E. Remington, Cazenovia, N. Y. Animal-trap. No. 1,160,622; Nov. 16; Gaz. vol. 220; p. 864.
- Ledyard, Wolters, assignor to E. Remington, Cazenovia, N. Y. Animal-trap. No. 1,160,623; Nov. 16; Gaz. vol. 220; p. 865.
- Lee, Albert O., Minneapolis, Minn. Controlling mechanism for traction-driven headers. No. 1,154,703; Sept. 28; Gaz. vol. 218; p. 920.
- Lee, Albert P., Chicago, Ill. Movable loading-hopper. No. 1,157,010; Oct. 19; Gaz. vol. 219; p. 643.
- Lee, Anderson, Salt Lake City, Utah. Rake-cleaner. No. 1,133,729; Mar. 30; Gaz. vol. 212; p. 1534.
- Lee, Charles. (See Kirkwood and Lee.)
- Lee, Charles A., Onida, N. Y. Extensible foot-rest for chairs. No. 1,156,156; Oct. 12; Gaz. vol. 219; p. 315.
- Lee, Charles A., assignor of one-half to G. Kalfahs, Neenah, Wis. Wire-hoop forming and applying machine. No. 1,137,336; Apr. 27; Gaz. vol. 213; p. 1277.
- Lee, Columbus O., Jr., Baltimore, assignor to Columbus O. Lee, Sr., Baltimore county, Md. Telephone-exchange switchboard. No. 1,136,347; Apr. 20; Gaz. vol. 213; p. 884.
- Lee, Edward F., Leigh, Nebr. Gate. No. 1,123,766; Jan. 5; Gaz. vol. 210; p. 195.
- Lee, Elmer L., and E. T. De Witt, Denver, Colo. Car-door. No. 1,142,588; June 8; Gaz. vol. 215; p. 565.
- Lee, Elmer L., and E. T. De Witt, Denver, Colo. Car-door. No. 1,163,421; Dec. 7; Gaz. vol. 221; p. 240.
- Lee, Emma L., Chicago, Ill. Fly-extermiator. No. 1,153,123; Sept. 7; Gaz. vol. 218; p. 267.
- Lee, Francis F., Leigh, Nebr. Folding egg case or crate. No. 1,165,885; Dec. 28; Gaz. vol. 221; p. 1225.
- Lee, Frank A. (See Cooper, Lee, and Meyer.)
- Lee, Frank A., Cincinnati, Ohio, R. W. Cooper, Dayton, and R. J. Meyer, Pineville, Ky.; said Lee and said Cooper assignors to The John Church Company, Cincinnati, Ohio. Player-piano. No. 1,131,390; Mar. 9; Gaz. vol. 212; p. 571.
- Lee, Frank A., Cincinnati, Ohio, R. W. Cooper, Dayton, and R. J. Meyer, Pineville, Ky.; said Lee and said Cooper assignors to The John Church Company, Cincinnati, Ohio. Player-piano. No. 1,131,470; Mar. 9; Gaz. vol. 212; p. 599.
- Lee, George E., assignor to The George E. Lee Company, Cleveland, Ohio. Melting-cup. No. 1,156,236; Oct. 12; Gaz. vol. 219; p. 340.
- Lee, Guavara J., Gorman, Md. Resilient wheel. No. 1,152,648; Sept. 7; Gaz. vol. 218; p. 99.
- Lee, Gussie A. (See Johnson and Lee.)
- Lee, Halvor O., Rogers, Minn. Automobile driving mechanism. No. 1,156,212; Aug. 17; Gaz. vol. 217; p. 782.
- Lee, Harry E., Grandview, Ohio. Compressor for demountable rims. No. 1,144,855; June 29; Gaz. vol. 215; p. 1444.
- Lee, Harry E., Oakland, Cal. Rule. No. 1,150,276; Aug. 17; Gaz. vol. 217; p. 806.
- Lee, Harry E., Oakland, Cal. Rule. No. 1,150,277; Aug. 17; Gaz. vol. 217; p. 806.
- Lee, Henry C., trustee. (See Bullock, Arthur R., assignor. (Reissue).)
- Lee, Iver H., Viborg, S. D. Hay-rack clamp. No. 1,145,495; July 6; Gaz. vol. 216; p. 182.
- Lee, Jacob J., Azate, N. D. Seat for grain-wagons. No. 1,136,685; Apr. 20; Gaz. vol. 213; p. 1004.
- Lee, James, Wortham, Miss. Pin-fastener. No. 1,159,053; Nov. 2; Gaz. vol. 220; p. 222.
- Lee, James B., Savannah, Ga. Electric switch mechanism. No. 1,165,683; Dec. 28; Gaz. vol. 221; p. 1156.
- Lee, John, Stuart, assignor of one-half to P. J. Basten, Oelwein, Iowa. Device for regulating the water-level in boilers. No. 1,155,327; Sept. 28; Gaz. vol. 218; p. 1131.
- Lee, John A., Brigham, Utah. Clip-board shield. No. 1,133,979; Mar. 30; Gaz. vol. 212; p. 1618.
- Lee, John D., Cleburne, Tex. Cushion insole and arch-support. No. 1,125,134; Jan. 19; Gaz. vol. 210; p. 758.
- Lee, John E., Conshohocken, assignor to J. B. Hall, Philadelphia, Pa. Maturing immature and frosted cotton-bolls. No. 1,166,060; Dec. 28; Gaz. vol. 221; p. 1285.
- Lee, John W. (See Kintner and Lee.)
- Lee, John W., Brooklyn, and J. L. Hogan, Jr., West Rockaway, N. Y., assignors, by mesne assignments, to S. M. Kintner, Pittsburgh, Pa., and H. M. Barrett, Bloomfield, N. J., receivers. Transmitting intelligence by radiant energy. No. 1,141,717; June 1; Gaz. vol. 215; p. 223.
- Lee, Norman E. (See Hart and Lee.)
- Lee, Preston G., Chadds Ford, and J. F. MacIndoe, Falls of Schuylkill, Pa. Automatic crense-cup. No. 1,165,424; Dec. 28; Gaz. vol. 221; p. 1065.
- Lee, R. R. (See Mabes, James R., assignor.)
- Lee, Richard V., Calistoga, Cal. Clothes-clamp. No. 1,136,244; Apr. 20; Gaz. vol. 213; p. 847.
- Lee, Robert E. (See Peoples and Lee.)
- Lee, Tennant, Dedham, assignor to United Fruit Company, Boston, Mass. Treating sugar-cane. No. 1,155,741; Oct. 5; Gaz. vol. 219; p. 144.
- Lee, Tennant, and A. B. Monks, Dedham, Mass., assignors, by mesne assignments, to Z. G. Simmons, Kenosha, Wis., A. W. Preston, Swampscott, and B. W. Palmer, Boston, Mass., trustees. Treating sugar-cane. No. 1,153,934; Sept. 21; Gaz. vol. 218; p. 628.
- Lee, Thomas, Cincinnati, Ohio. Fire-resisting door. No. 1,126,794; Feb. 2; Gaz. vol. 211; p. 46.
- Lee, Thomas L. (See Hoppe and Lee.)
- Lee Tire & Rubber Co. (See Bradford, Beniah, assignor.)
- Lee, Ulysses G., Chattanooga, Tenn., assignor to Montague Milling Machinery Co. Addressing-machine. No. 1,137,066; Apr. 27; Gaz. vol. 213; p. 1177.
- Lee, Ulysses G., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Selective address-plate. No. 1,139,544; May 18; Gaz. vol. 214; p. 714.
- Lee, Ulysses G., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Addressing-machine. No. 1,141,065; May 25; Gaz. vol. 214; p. 1282.
- Lee, Ulysses G., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Addressing and proving machine (semi-automatic). No. 1,162,620; Nov. 30; Gaz. vol. 220; p. 1652.
- Lee, Ulysses G., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Addressing-machine with multiple-impression controller. No. 1,162,621; Nov. 30; Gaz. vol. 220; p. 1653.
- Lee, Waldo J., Munson, Alberta, Canada. Cotton-harvester. No. 1,132,102; Mar. 16; Gaz. vol. 212; p. 858.
- Lee, Waldo J., assignor of one-half to A. R. Olson, Munson, Alberta, Canada. Cleaner for rolling colters. No. 1,142,185; June 8; Gaz. vol. 215; p. 423.
- Lee, Waldo J., assignor of one-half to A. R. Olson, Munson, Alberta, Canada. Scraper for colters. No. 1,148,390; July 27; Gaz. vol. 216; p. 1266.
- Lee, Wallace A., Oakland, Cal. Motor vehicle. No. 1,155,250; Sept. 28; Gaz. vol. 218; p. 1106.
- Lee, Walter. (See Parker and Lee.)
- Lee, William, Camberwell, London, England. Adjustable hat-lining. No. 1,134,624; Apr. 6; Gaz. vol. 213; p. 197.
- Lee, William E., assignor to The Seagrave Company, Columbus, Ohio. Aerial-ladder device. No. 1,161,293; Dec. 14; Gaz. vol. 221; p. 589.
- Lee, William R., Rochester, N. Y. Powder-distributor. No. 1,150,129; Aug. 17; Gaz. vol. 217; p. 752.
- Lee, William S., Charlotte, N. C. Insulator-clamp. No. 1,140,603; May 25; Gaz. vol. 214; p. 1123.
- Leech, Charles F. (See Calvert, Sebastian L., assignor.)
- Leech, Charles M., Lima, Ohio. Internal-combustion engine. No. 1,138,876; May 11; Gaz. vol. 214; p. 445.
- Leech, Donald S., and M. S. Evans, Lima, Ohio. Transmission-gearing. No. 1,141,563; June 1; Gaz. vol. 215; p. 170.
- Leeds, Morris E., Philadelphia, Pa. Electrical recorder. No. 1,125,699; Jan. 19; Gaz. vol. 210; p. 962.
- Leeds, Morris E., assignor to The Leeds & Northrup Company, Philadelphia, Pa. Electrical measuring apparatus. No. 1,132,591; Mar. 23; Gaz. vol. 212; p. 1086.
- Leeds & Northrup Company, The. (See Leeds, Morris E., assignor.)
- Leeds & Northrup Company, The. (See Wrighton, William J., assignor.)
- Leeds, Robert R., New Rochelle, N. Y., assignor to The American Hardware Corporation, New Britain, Conn. Combined guide and lock for Cremona bolts. No. 1,158,816; Nov. 2; Gaz. vol. 220; p. 143.
- Leedy Manufacturing Company. (See Wanamaker, Charles B., assignor.)
- Leeke, William H. (See Wilesmith, Alfred J. K., assignor.)
- Lecker, Albert H., St. Bernard, Ohio. Locking device for automobiles. No. 1,140,383; May 25; Gaz. vol. 214; p. 1044.
- Leeming, John R., Somerset, Colo. Nut-lock. No. 1,128,335; Feb. 16; Gaz. vol. 211; p. 676.
- Leeming, Robert W., Brantford, Canada. Device for launching life-boats. No. 1,140,046; May 18; Gaz. vol. 214; p. 892.
- Leeper, James F., Lewistown, Pa. Gas apparatus. No. 1,160,915; Nov. 16; Gaz. vol. 220; p. 968.
- Lees-Bradner Company, The. (See Lees, Ernest J., assignor.)
- Lees Button Co., The. (See Lees, George C., assignor.)
- Lees, Ernest J., assignor to The Lees-Bradner Company, Cleveland, Ohio. Thread-milling machine. No. 1,156,237; Oct. 12; Gaz. vol. 219; p. 341.
- Lees, George C., Shelton, Conn., assignor to The Lees Button Co., Leominster, Mass. Automatic feed for punching-machines. No. 1,133,649; Mar. 30; Gaz. vol. 212; p. 1505.
- Lees, Ivie E., Brookings, S. D. Carriage-canopy. No. 1,126,236; Jan. 26; Gaz. vol. 210; p. 1188.
- Lees, John, Indianapolis, Ind. Safety tank-lock. No. 1,143,546; June 15; Gaz. vol. 215; p. 937.
- Leeson, Joseph R. (See Helm, Max, assignor.)
- Leethem, Frank C., Middletown, N. Y., assignor to Latham Automatic Registering Company. Printer's form. No. 1,129,579; Feb. 23; Gaz. vol. 211; p. 1145.
- Leethem, Frank C., Middletown, N. Y., assignor to Latham Automatic Registering Company. Imposing-table and proof-press. No. 1,139,984; May 18; Gaz. vol. 214; p. 870.

Alphabetical list of patentees—Continued.

- Lefebvre, Alderic, Montreal, Quebec, Canada. Switch. No. 1,126,795; Feb. 2; Gaz. vol. 211; p. 47.
- Lefever, Charles E., assignor to Daisy Manufacturing Company, Plymouth, Mich. Spring air-gun. No. 1,136,470; Apr. 20; Gaz. vol. 213; p. 929.
- Lefever, Charles E., assignor to Daisy Manufacturing Company, Plymouth, Mich. Liquid pistol. No. 1,143,839; June 22; Gaz. vol. 215; p. 1063.
- Lefevre, George, Lawrence, Mass. Shade-roller support. No. 1,142,589; June 8; Gaz. vol. 215; p. 565.
- Leffler, Anna A., administratrix. (See Leffler, Paul W.)
- Leffler Electric System. (See Leffler, Paul W., assignor.)
- Leffler, Paul W., deceased; A. A. Leffler, administratrix, assignor to Leffler Electric System, Chicago, Ill. Combined electric railway and signal system. No. 1,131,717; Mar. 16; Gaz. vol. 212; p. 718.
- Leffler, Paul W., deceased; A. A. Leffler, administratrix, assignor to Leffler Electric System, Chicago, Ill. Electric-railway system. No. 1,133,296; Mar. 30; Gaz. vol. 212; p. 1378.
- Leffer, Albert B., New York, N. Y. Game device. No. 1,165,984; Dec. 28; Gaz. vol. 221; p. 1260.
- Lefort, Georges, Clabecq, Tubize, Belgium. Automatic machine for blowing seamless bottles and other round vessels. No. 1,139,545; May 18; Gaz. vol. 214; p. 714.
- Leftwich, Charles W., et al. (See Miller, Henry M., assignor.)
- Legat, Robert C., New Britain, Conn. Safety device for punch-presses. No. 1,164,943; Dec. 21; Gaz. vol. 221; p. 858.
- Legate, R. S. (See White, William R., assignor.)
- Legg, Roland H., and C. W. Blierig, assignors of one-ninth to R. F. B. Sewell, Joplin, Mo. Automatic slide advertising-machine. No. 1,165,310; Dec. 21; Gaz. vol. 221; p. 985.
- Legge, Alfred G., Brockton, Mass. Shoe-form. No. 1,130,302; Mar. 2; Gaz. vol. 212; p. 160.
- Leggett, Benjamin T., et al., trustees. (See Myers, Mablon C., assignor.)
- Leggett, Clinton H., New York, N. Y. Powder-distributer. No. 1,148,785; Aug. 3; Gaz. vol. 217; p. 109.
- Leggett, Joseph P., Carthage, Mo. Spring bed-bottom. No. 1,126,036; Jan. 26; Gaz. vol. 210; p. 1113.
- Legh, Gilbert, King's Lynn, England. Golf-club. No. 1,139,985; May 18; Gaz. vol. 214; p. 870.
- Legler, Edward, Kansas City, Kans. Iceing machine. No. 1,164,944; Dec. 21; Gaz. vol. 221; p. 858.
- Lego, James C., Lima, Ohio. Underreamer. No. 1,133,481; Mar. 30; Gaz. vol. 212; p. 1443.
- Legrand, Albert, Paris, France. Body for motor road-vehicles. No. 1,142,590; June 8; Gaz. vol. 215; p. 566.
- Legrand, Emile G., Ste. Adresse, France. Precipitating copper-ammonia solutions of cellulose for the purpose of manufacturing artificial-silk threads or similar products. No. 1,130,830; Mar. 9; Gaz. vol. 212; p. 378.
- Legros, Georges, Montreal, Quebec, Canada. Coat and hat hanger. No. 1,162,375; Nov. 30; Gaz. vol. 220; p. 1571.
- Lehberg, George, Brooklyn, N. Y. Aeroplane. No. 1,166,061; Dec. 28; Gaz. vol. 221; p. 1285.
- Lehman, Arthur H., Las Animas, Colo. Combined match-safe and ash-tray. No. 1,162,622; Nov. 30; Gaz. vol. 220; p. 1653.
- Lehman, Ben, Dayton, Ohio. Toilet-seat for children. No. 1,156,014; Oct. 5; Gaz. vol. 219; p. 239.
- Lehman, Christian S., Lawn, Pa. Lifting-jack. No. 1,140,907; May 25; Gaz. vol. 214; p. 1228.
- Lehman, Frank H., Lebanon, Pa. Game apparatus. No. 1,153,395; Sept. 14; Gaz. vol. 218; p. 403.
- Lehman, Isador, Cleveland, Ohio. Shaft-coupling. No. 1,148,594; Aug. 3; Gaz. vol. 217; p. 40.
- Lehman, Joseph H., New York, N. Y. Electrical apparatus. No. 1,142,973; June 15; Gaz. vol. 215; p. 738.
- Lehman, Kurt, and W. B. Johnson, Seattle, Wash. Receptacle-suspender. No. 1,146,334; July 13; Gaz. vol. 216; p. 495.
- Lehmann, Arno, Rheydt, Germany. Bleaching solution. No. 1,135,303; Apr. 13; Gaz. vol. 213; p. 476.
- Lehmann, Arthur E., St. Charles, Mo., assignor, by mesne assignments, to Commonwealth Steel Company. Car-end construction. No. 1,124,037; Jan. 5; Gaz. vol. 210; p. 285.
- Lehmann, Arthur E., St. Charles, Mo., assignor, by mesne assignments, to Commonwealth Steel Company. Combined car-end sill and end-reinforcing frame. No. 1,124,038; Jan. 5; Gaz. vol. 210; p. 285.
- Lehmann, Arthur E., St. Charles, Mo., assignor, by mesne assignments, to Commonwealth Steel Company. Reinforcing corner-bracket for cars. No. 1,124,039; Jan. 5; Gaz. vol. 210; p. 285.
- Lehmann, Arthur E., St. Charles, Mo., assignor, by mesne assignments, to Commonwealth Steel Company. Combined buffer-beam and end-reinforcement for cars. No. 1,124,040; Jan. 5; Gaz. vol. 210; p. 286.
- Lehmann, Chester L. (See Cervello, Umberto M., assignor.)
- Lehmann, Emil, Hammond, Ind. Bed-bottom. No. 1,137,220; Apr. 27; Gaz. vol. 213; p. 1233.
- Lehmann, Firm of Ernst P. (See Logan, Humphrey T., assignor.)
- Lehmann, Firm of I. M. (See Schneider, Adolf A., assignor.)
- Lehmann, Firina J. M. (See Oppenheim, Max, assignor.)
- Lehmann, John H., Waverly, Md. Brooder. No. 1,129,806; Feb. 23; Gaz. vol. 211; p. 1220.
- Lehmann, Louis B. (See Hanel, Paul T., assignor.)
- Lehmann, Otto P. R. (See Schenkeln and Lehmann.)
- Lehmkuhl, Hellmuth, St. Paul, Minn. Stenciling apparatus. No. 1,142,106; June 8; Gaz. vol. 215; p. 396.
- Lehne, Josef, Tempelhof, and W. Lucke, Neukölln, assignors to Internationale Rotationsmaschinen-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Centrifugal pump. No. 1,139,042; May 11; Gaz. vol. 214; p. 504.
- Lehosky, Steve. (See Pupp, Max B., assignor.)
- Lehotsky, John J., Philadelphia, Pa. Bicycle-boat. No. 1,126,037; Jan. 26; Gaz. vol. 210; p. 1113.
- Lehr, Edwin, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Voltage-regulator. No. 1,144,604; June 29; Gaz. vol. 215; p. 1356.
- Lehr, John G. (See Kirk, Thomas E., assignor.)
- Lehrack, Frederick W., and E. P. Koehn, Kansas City, Mo. Dust-collector. No. 1,145,903; July 13; Gaz. vol. 216; p. 344.
- Lehrer, George P., Freehold, N. J. Condensed mol-luscous food preparation and making same. No. 1,155,743; Oct. 5; Gaz. vol. 219; p. 145.
- Leib, August. (See Schloemilch and Leib.)
- Leibe, Henry E., Newark, N. J. Folding eyeglasses. No. 1,152,521; Sept. 7; Gaz. vol. 218; p. 51.
- Leibfried, Robert. (See Winkler, Albin, assignor.)
- Leibrock, Wilhelm. (See Seifert and Leibrock.)
- Leich, Oscar M., assignor to Cracraft, Leich Electric Company, Genoa, Ill. Switching device. No. 1,129,808; Feb. 23; Gaz. vol. 211; p. 1221.
- Leich, Oscar M., assignor to Cracraft, Leich Electric Company, Genoa, Ill. Annunciator. No. 1,144,605; June 29; Gaz. vol. 215; p. 1356.
- Leich, Oscar M., assignor to Cracraft-Leich Electric Company, Genoa, Ill. Substation-telephone. No. 1,148,458; July 27; Gaz. vol. 216; p. 1287.
- Leich, Oscar M., assignor to Cracraft, Leich Electric Company, Genoa, Ill. Receiver. No. 1,156,157; Oct. 12; Gaz. vol. 219; p. 315.
- Leich, Oscar M., assignor to Cracraft, Leich Electric Company, Genoa, Ill. Selective signaling system. No. 1,160,294; Nov. 16; Gaz. vol. 220; p. 747.
- Leich, Oscar M., assignor to Cracraft, Leich Electric Company, Genoa, Ill. Magneto-switchboard cord-circuit. No. 1,165,336; Dec. 21; Gaz. vol. 221; p. 993.
- Leich, Oscar M., and C. E. Hague, Rochester, N. Y., assignors, by mesne assignments, to Kellogg Switchboard & Supply Company. Signaling system. No. 1,154,929; Sept. 28; Gaz. vol. 218; p. 996.
- Leichsenring, Herman C., Chicago, Ill. System of fenestration. No. 1,165,684; Dec. 28; Gaz. vol. 221; p. 1156.
- Leicht, Albert, Sheboygan, Wis. Pencil-sharpener. No. 1,131,529; Mar. 9; Gaz. vol. 212; p. 619.
- Leidecker, Frank W., Marietta, Ohio. Gage-cock. No. 1,124,471; Jan. 12; Gaz. vol. 210; p. 488.
- Leidecker, Frank W., Marietta, Ohio. Temper-screw. No. 1,157,704; Oct. 26; Gaz. vol. 219; p. 950.
- Leidel, Henry, New York, N. Y. Cigar-cutter. No. 1,156,158; Oct. 12; Gaz. vol. 219; p. 316.
- Leidel, Henry, Richmond Hill, N. Y. Finger-tip infiltrator. No. 1,158,695; Nov. 2; Gaz. vol. 220; p. 99.
- Leldich, Sylvester W. (See Metcalf and Leldich.)
- Leidigh, John J., Milwaukee, Wis., assignor to National Cash Register Company, Dayton, Ohio. Credit-marking system. No. 1,145,152; July 6; Gaz. vol. 216; p. 62.
- Leidigh, John J., Milwaukee, Wis., assignor to The National Cash Register Company, Dayton, Ohio. Authorizing method and system. No. 1,146,082; July 13; Gaz. vol. 216; p. 408.
- Leidigh, John J., Milwaukee, Wis., assignor to The National Cash Register Company, Dayton, Ohio. Validating stamping system. No. 1,152,522; Sept. 7; Gaz. vol. 218; p. 52.
- Leigh, Edmund W., Burton-upon-Trent, assignor to J. S. Hall, Ashby-de-la-Zouch, England. Manufacture of hollow or like earthenware. No. 1,135,825; Apr. 13; Gaz. vol. 213; p. 660.
- Leigh-Martineau, Francis. (See Hele-Shaw and Leigh-Martineau.)
- Leighton, Alexander, and H. N. Rutnan, Winnipeg, Manitoba, Canada. Incinerator. No. 1,155,586; Oct. 5; Gaz. vol. 219; p. 90.
- Leighton, Edgar C., Philadelphia, Pa. Receptacle and closure therefor. No. 1,149,925; Aug. 10; Gaz. vol. 217; p. 619.
- Leighton, Frank D., and F. H. Drake, Manchester, N. H. Lamp. No. 1,142,894; June 15; Gaz. vol. 215; p. 710.
- Leighty, Julia J., Geddes, S. D. Folding cabinet. No. 1,133,866; Mar. 30; Gaz. vol. 212; p. 1584.
- Leilich, Henry L., and F. W. Burger, assignors to The Delphos Manufacturing Company, Delphos, Ohio. Metal fence-post and wire-fastening means therefor. No. 1,136,471; Apr. 20; Gaz. vol. 213; p. 929.
- Leiman, Henry, Tampa, Fla. Safety shipping-case. No. 1,124,041; Jan. 5; Gaz. vol. 210; p. 286.
- Leindorfer, Joachim, Budapest, Austria-Hungary. Manufacture of hard soaps. No. 1,138,230; May 4; Gaz. vol. 214; p. 177.

- Leimer, Walter A., Denver, Colo. Removable cylinder-lining for explosive and other engines. No. 1,127,783; Feb. 9; Gaz. vol. 211; p. 432.
- Leinert, Charles H., Chicago, Ill. Compressor. No. 1,123,327; Jan. 5; Gaz. vol. 210; p. 45.
- Leinroth, Frederick C. (See Weisgerber and Leinroth.)
- Leipziger Maschinenbau-Gesellschaft m. b. H. (See Jay, Rudolf, assignor.)
- Leisch, Joseph, Tryon, N. C., assignor to The John Church Company, Cincinnati, Ohio. Pneumatic motor for piano-players. No. 1,131,391; Mar. 9; Gaz. vol. 212; p. 571.
- Leischner, Gotthilf, Megargel, Tex. Tire-tightener. No. 1,162,293; Nov. 30; Gaz. vol. 220; p. 1544.
- Leise, John F. (See Bouk and Leise.)
- Leisel, Albert, Newburgh, N. Y. Machine for doubling fabrics. No. 1,133,440; Mar. 30; Gaz. vol. 212; p. 1429.
- Leiseuring, Frank S., Flushing, N. Y. Repeating device for talking-machines. No. 1,143,289; June 15; Gaz. vol. 215; p. 849.
- Leiser, Heinrich, Charlottenburg, Berlin, Germany. Manufacture of solid bodies from powder. No. 1,141,469; June 1; Gaz. vol. 215; p. 138.
- Leisse, Pierre L., assignor to L. Renault, Billancourt, France. Lubrication of motors. No. 1,141,351; June 1; Gaz. vol. 215; p. 94.
- Leissner, Harry P., Ljusne, Sweden. Fuel-gasifier for internal-combustion engines. No. 1,136,818; Apr. 20; Gaz. vol. 213; p. 1052.
- Leist, Norman A. (See Test and Leist.)
- Leister, William H. (See Knap and Leister.)
- Leistler, Alois, Hollenstein, Ybus, Austria-Hungary. Automatically-locking lock. No. 1,142,591; June 8; Gaz. vol. 215; p. 566.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Speed-indicator. No. 1,150,130; Aug. 17; Gaz. vol. 217; p. 752.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Wheel. No. 1,150,131; Aug. 17; Gaz. vol. 217; p. 753.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Disk liner for centrifugal machines. No. 1,160,624; Nov. 16; Gaz. vol. 220; p. 865.
- Leitch, Meredith, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, Milking-machine. No. 1,163,161; Dec. 7; Gaz. vol. 221; p. 149.
- Leitch, Meredith, and B. R. Wright, Poughkeepsie, assignors to The De Laval Separator Company, New York, N. Y. Emulsifier. No. 1,145,600; July 6; Gaz. vol. 216; p. 218.
- Leitch, Meredith, and S. H. Hall, Poughkeepsie, N. Y., assignors to The De Laval Separator Company. Adjustable crank. No. 1,159,054; Nov. 2; Gaz. vol. 220; p. 222.
- Leith, Alexander B., et al., trustees. (See Loshbough, James E., assignor.)
- Leith, Alexander B., et al., trustees. (See McGill, Albert E., assignor.)
- Leithelser, Frank H., New Brunswick, N. J. Headcapped. No. 1,150,526; Aug. 17; Gaz. vol. 217; p. 891.
- Leitner, Emil, Hoboken, N. J., assignor to Powers Photo-Engraving Company, New York, N. Y. Making printing plates. No. 1,154,643; Sept. 28; Gaz. vol. 218; p. 900.
- Leitner, Paul F., Long Beach, Cal. Life-saving corset. No. 1,139,043; May 11; Gaz. vol. 214; p. 504.
- Leksuzin, Alexander, Detroit, Mich. Permutation-lock. No. 1,140,751; May 25; Gaz. vol. 214; p. 1172.
- Lektic Sales Company. (See Bullis, Frederick O., assignor.) (Reissue.)
- Leland, Bruce, Winona, Minn. Lubricating device. No. 1,125,135; Jan. 19; Gaz. vol. 210; p. 759.
- Leland, Henry G., East Boston, Mass. Violin-mold. No. 1,133,482; Mar. 30; Gaz. vol. 212; p. 1443.
- Leland, John A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Jack-screw. No. 1,153,697; Sept. 14; Gaz. vol. 218; p. 510.
- Leland, John A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Miter-box. No. 1,159,396; Nov. 9; Gaz. vol. 220; p. 376.
- Leland, John E., Montpelier, Vt. Film-cleaner. No. 1,165,265; Dec. 21; Gaz. vol. 221; p. 971.
- Leland, Sanford D., Wellesley Hills, assignor to Manufacturing Equipment & Engineering Company, South Framingham, Mass. Shelving. No. 1,136,245; Apr. 20; Gaz. vol. 213; p. 847.
- Leilman, Stephen. (See Pilkington, John T., assignor.)
- Lelois, Delphis T., Chicago, Ill. Pneumatic hammer. No. 1,138,877; May 11; Gaz. vol. 214; p. 445.
- Lelong, Louis, and J. R. Millard, Newark, N. J. Crumb-collecting device. No. 1,143,840; June 22; Gaz. vol. 215; p. 1063.
- Lemankiewicz, Joseph. (See Aufinger and Lemankiewicz.)
- Lemasena, Lillian, Newark, N. J. Picture-building game. No. 1,143,636; June 22; Gaz. vol. 215; p. 994.
- Lemaux, George, assignor to Indianapolis Brush & Broom Manufacturing Company, Indianapolis, Ind. Metal-case-broom press. No. 1,151,480; Aug. 24; Gaz. vol. 217; p. 1273.
- Lemberg, Joseph, Charlestown, Mass. Non-refillable bottle. No. 1,142,445; June 8; Gaz. vol. 215; p. 517.
- Lembke, John J., Berlin, Ontario, Canada. Caster. No. 1,144,365; June 29; Gaz. vol. 215; p. 1277.
- Lemel, Alexander. (See Hennevel and Lemel.)
- Lemire, Joseph, Drummondville, Quebec, Canada. Clock-movement. No. 1,153,508; Nov. 9; Gaz. vol. 220; p. 415.
- Lenke, Oertel H., Milwaukee, Wis. Magneto. No. 1,125,349; Jan. 19; Gaz. vol. 210; p. 837.
- Lemley, Louis E., and R. N. Leopard, New Orleans, La. Automatic cut-off for gas-stove burners. No. 1,141,564; June 1; Gaz. vol. 215; p. 170.
- Lemoine, Louis, Paris, France. Pressure-reducing valve for gas. No. 1,145,601; July 6; Gaz. vol. 216; p. 218.
- Lemon, Cora B., Grants Pass, Oreg. Skirt-marker. No. 1,155,251; Sept. 28; Gaz. vol. 218; p. 1106.
- Lemon, Oren O., Bristol, Va. Safety-valve for water-backs. No. 1,149,272; Aug. 10; Gaz. vol. 217; p. 382.
- Lemon, Thomas K., Arverne, N. Y. Valve. No. 1,130,989; Mar. 9; Gaz. vol. 212; p. 433.
- Lemons, Robert J., Livingston, Ky. Breath-guard. No. 1,124,472; Jan. 12; Gaz. vol. 210; p. 489.
- Lemous, Elias, Scranton, Pa. Fire-escape. No. 1,134,468; Apr. 6; Gaz. vol. 213; p. 140.
- Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Controlling mechanism for internal-combustion engines. No. 1,154,785; Sept. 28; Gaz. vol. 218; p. 948.
- Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Fuel injector. No. 1,157,315; Oct. 19; Gaz. vol. 219; p. 751.
- Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Piston cooling and lubricating system for engines. No. 1,157,944; Oct. 26; Gaz. vol. 219; p. 1033.
- Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Piston-cooling means for internal-combustion engines. No. 1,160,727; Nov. 16; Gaz. vol. 220; p. 903.
- Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Fuel-pump. No. 1,166,230; Dec. 28; Gaz. vol. 221; p. 1351.
- Lempera, John I., Chicago, Ill. Metallic door. No. 1,150,132; Aug. 17; Gaz. vol. 217; p. 753.
- Lenders, Adolph W. H., Chicago, Ill. Apparatus for making modified starches. No. 1,159,591; Nov. 9; Gaz. vol. 220; p. 445.
- Lenders, Adolph W. H., Cedar Rapids, Iowa. Making modified starches. No. 1,159,592; Nov. 9; Gaz. vol. 220; p. 445.
- Lenhardt, Joseph P., St. Louis, Mo. Cartridge-box carrier. No. 1,139,779; May 18; Gaz. vol. 214; p. 797.
- Lenhoff, John A., Wilmington, Del. Screen. No. 1,144,856; June 29; Gaz. vol. 215; p. 1445.
- Lenk, Otto, Livingston, Mont. Hose-supporter. No. 1,129,210; Feb. 23; Gaz. vol. 211; p. 1015.
- Lenker, Charles M., Shamokin, Pa. Waterproof shoe. No. 1,136,819; Apr. 20; Gaz. vol. 213; p. 1052.
- Lennards, Marie, Chicago, Ill. Display-cabinet. No. 1,163,162; Dec. 7; Gaz. vol. 221; p. 159.
- Lenning, Malcolm N., Esk Bank, Saskatchewan, Canada. Globe-valve. No. 1,141,565; June 1; Gaz. vol. 215; p. 171.
- Lennon, William F., Willimantic, Conn. Headlight attachment. No. 1,130,180; Mar. 2; Gaz. vol. 212; p. 118.
- Lennon, William F., Willimantic, Conn. Headlight attachment. No. 1,137,221; Apr. 27; Gaz. vol. 213; p. 1234.
- Lenox, Calvin S., Pittsfield, Mass. Caster. No. 1,147,106; July 20; Gaz. vol. 216; p. 785.
- Lent, Charles W., Carbondale, Ill. Krout-press. No. 1,153,323; Sept. 14; Gaz. vol. 218; p. 376.
- Lentz, Hugo, Berlin-Halensee, Germany. Fluid change and reversing gear. No. 1,128,010; Feb. 9; Gaz. vol. 211; p. 513.
- Lentz, Hugo, Berlin-Halensee, Germany. Valve. No. 1,133,650; Mar. 30; Gaz. vol. 212; p. 1505.
- Lentz, Hugo, Berlin-Halensee, Germany. Arrangement for starting internal-combustion engines. No. 1,151,481; Aug. 24; Gaz. vol. 217; p. 1274.
- Lentz, Hugo, Berlin-Halensee, Germany. Fluid change and reversing gear. No. 1,156,015; Oct. 5; Gaz. vol. 219; p. 239.
- Lentz, Hugo, Berlin-Halensee, Germany. Fluid-operated power-transmission apparatus. No. 1,156,787; Oct. 12; Gaz. vol. 219; p. 533.
- Lentz, Hugo, Halensee, near Berlin, Germany. Means for degenerating and cooling the driving medium of hydraulic gears. No. 1,164,105; Dec. 14; Gaz. vol. 221; p. 526.
- Lentz, Hugo, Grunewald, near Berlin, Germany. Means for controlling fluid-transmission gear. No. 1,133,867; Mar. 30; Gaz. vol. 212; p. 1584.
- Lenz, Sidney S., et al. (See Murchey, Joseph, assignor.)
- Leon, Karl O., Gottenborg, Sweden, assignor to Leon Steering Device Company, Brooklyn, N. Y. Torpedo and other submarine apparatus. No. 1,137,222; Apr. 27; Gaz. vol. 213; p. 1234.
- Leon, Leon S., Chicago, Ill. Needle-threading device. No. 1,162,938; Dec. 7; Gaz. vol. 221; p. 71.
- Leon Steering Device Company. (See Leon, Karl O., assignor.)
- Leonard, Albert, assignor of one-half to A. Edman, Duluth, Minn. Combination-lock. No. 1,146,720; July 13; Gaz. vol. 216; p. 630.

Alphabetical list of patentees—Continued.

- Leonard, Andrew J., West Branch, Mich. Shoe-lace fastener. No. 1,159,397; Nov. 9; Gaz. vol. 220; p. 376.
- Leonard, Carolyn G., administratrix. (See Leonard, Harry W.)
- Leonard, Carl, and F. J. Thompson, Fate, Tex. Flue-cleaner. No. 1,150,376; Aug. 17; Gaz. vol. 217; p. 840.
- Leonard, Carl W., assignor of one-fourth to A. A. Young, Racine, Wis. Instep-supporting means for shoes. No. 1,126,038; Jan. 26; Gaz. vol. 210; p. 1113.
- Leonard, Clifford M., Chicago, Ill. Reinforced-concrete building. No. 1,128,011; Feb. 9; Gaz. vol. 211; p. 513.
- Leonard, Eloy R., Woodcliff, N. J. Skylight. No. 1,133,384; Mar. 30; Gaz. vol. 212; p. 1410.
- Leonard, Frank J., Olivia, Minn. Cover-opener. No. 1,142,446; June 8; Gaz. vol. 215; p. 517.
- Leonard, Fred H. (See Clark, Clifford R., assignor.)
- Leonard, Frederick, Rochester, N. Y. Time-controlled switch. No. 1,124,473; Jan. 12; Gaz. vol. 210; p. 489.
- Leonard, Frederick C., and G. F. Rooke, Providence, R. I. Coin-delivery mechanism. No. 1,158,696; Nov. 2; Gaz. vol. 220; p. 100.
- Leonard, George A., Sheffield, Iowa. Silo-door. No. 1,123,560; Jan. 5; Gaz. vol. 210; p. 123.
- Leonard, George A., Sheffield, Iowa. Block-molding machine. No. 1,143,769; June 22; Gaz. vol. 215; p. 1038.
- Leonard, George A., Sheffield, Iowa. Wall construction. No. 1,150,044; Aug. 17; Gaz. vol. 217; p. 722.
- Leonard, George A., Burlington, Vt. Bracket for supporting the prestolite tanks on motor-cycles. No. 1,124,924; Jan. 12; Gaz. vol. 210; p. 649.
- Leonard, George A., Venice, Cal. Music-leaf turner. No. 1,164,826; Dec. 21; Gaz. vol. 221; p. 817.
- Leonard, George H. (See Michelbrink, John T., assignor.)
- Leonard, Harry W., deceased, Bronxville, N. Y.; C. G. Leonard, administratrix, assignor to H. Ward Leonard, Incorporated. Electric apparatus for motor-vehicles. No. 1,137,011; Oct. 19; Gaz. vol. 219; p. 643.
- Leonard, Howard M., assignor to Ruby Manufacturing Company, Jackson, Mich. Double door. No. 1,123,767; Jan. 5; Gaz. vol. 210; p. 195.
- Leonard, Howard M., assignor to Ruby Manufacturing Company, Jackson, Mich. Roof structure for portable buildings. No. 1,124,474; Jan. 12; Gaz. vol. 210; p. 489.
- Leonard, James. (See Sampson, James J., assignor.)
- Leonard, James H., East Orange, N. J., assignor to Jenkins Manufacturing Co., New York, N. Y. Water-closet. No. 1,157,989; Oct. 26; Gaz. vol. 219; p. 1049.
- Leonard, John B., Memphis, Tenn. Hollow blast-burner for furnaces. No. 1,158,939; Nov. 2; Gaz. vol. 220; p. 185.
- Leonard, John T., Wichita, Kans. Motor-protecting circuit-breaker. No. 1,134,752; Apr. 6; Gaz. vol. 213; p. 245.
- Leonard, John T., Wichita, Kans. Brake. No. 1,159,238; Nov. 2; Gaz. vol. 220; p. 289.
- Leonard, Joseph E., and G. H. Hten, Cedar Rapids, Iowa. Oven. No. 1,161,232; Nov. 23; Gaz. vol. 220; p. 1127.
- Leonard, Joseph T., St. Charles, Mo. Eyeglass-cleaner. No. 1,144,483; June 29; Gaz. vol. 215; p. 1316.
- Leonard, Michael J., Scranton, Pa. Shingle and slate gage. No. 1,156,159; Oct. 12; Gaz. vol. 219; p. 316.
- Leonard, Thomas B., et al. (See Fishburne, Edward W., assignor.)
- Leonard, Raymond J., assignor of one-fifth to M. Hirschman, New York, N. Y. Kinetographic apparatus. No. 1,163,549; Dec. 7; Gaz. vol. 221; p. 284.
- Leonard, Wilbur A., New Haven, Conn. Means for cutting threading-dies. No. 1,137,408; Apr. 27; Gaz. vol. 213; p. 1303.
- Leonard, William A., Riverside, and S. W. Boynton, Chicago, Ill. Material for cleaning teeth. No. 1,149,376; Aug. 10; Gaz. vol. 217; p. 421.
- Leonard, William K., Lima, Ohio. Vehicle-tire. No. 1,140,752; May 25; Gaz. vol. 214; p. 1172.
- Leonhardt, Louis F., New York, N. Y. Camera. No. 1,148,911; Aug. 3; Gaz. vol. 217; p. 151.
- Leonhauser, Ara U., Chicago, Ill., assignor to International Harvester Company of New Jersey. Shearling-machine. No. 1,142,974; June 15; Gaz. vol. 215; p. 738.
- Leopard, Robert N. (See Lemley and Leopard.)
- Leopold, George O. (See Fegley and Leopold.)
- Leopold, George O., assignor to North Bros. Mfg. Co., Philadelphia, Pa. Feed mechanism for drill-spindles. No. 1,124,149; Jan. 6; Gaz. vol. 210; p. 322.
- Lepley, Daniel F., Connellsville, Pa. Leveler for charges of coke-ovens. No. 1,129,352; Feb. 23; Gaz. vol. 211; p. 1065.
- Lepley, Daniel F., Connellsville, Pa. Slate-lorry. No. 1,129,353; Feb. 23; Gaz. vol. 211; p. 1065.
- Lepley, Daniel F., Connellsville, Pa. Pusher for coke-ovens. No. 1,129,354; Feb. 23; Gaz. vol. 211; p. 1066.
- Lepley, Daniel F., Connellsville, Pa. Coke-conveyer. No. 1,142,895; June 15; Gaz. vol. 215; p. 710.
- Lepley, Daniel F., Connellsville, Pa. Ventilating fan-wheel. No. 1,150,278; Aug. 17; Gaz. vol. 217; p. 806.
- Lepley, Daniel F., Connellsville, Pa. Clutch. No. 1,161,393; Nov. 23; Gaz. vol. 220; p. 1185.
- Lepper, John G., Waterbury, Conn., assignor to Booth, Schellinger and Williams Company. Blow-over remover for bottle-making machines. No. 1,124,475; Jan. 12; Gaz. vol. 210; p. 489.
- Lepper, John G., Waterbury, assignor, by mesne assignments, to The Lepper Machine Company, Bridgeport, Conn. Reheating device for bottle-making machines. No. 1,165,611; Dec. 28; Gaz. vol. 221; p. 1130.
- Lepper Machine Company, The. (See Lepper, John G., assignor.)
- Lepsch, Joseph H., Ridgway, Pa. Tire-vulcanizer apparatus. No. 1,153,324; Sept. 14; Gaz. vol. 218; p. 376.
- Lera, Ramon, Bremen, assignor to H. Buchy, Mülhausen-Erlass, Germany. Guard-tent for babies. No. 1,147,414; July 20; Gaz. vol. 216; p. 894.
- Lera, Ramon, Bremen, assignor to H. Buchy, Mülhausen-Erlass, Germany. Guard-tent for babies. No. 1,164,294; Dec. 14; Gaz. vol. 221; p. 590.
- Lerback, Bernhard, Mandan, N. D. Permutation-lock. No. 1,136,820; Apr. 20; Gaz. vol. 213; p. 1053.
- Lerch, Hermann C. H., Amerika-on-the-Mulde, Germany. Flier spinning and twisting machine. No. 1,124,476; Jan. 12; Gaz. vol. 210; p. 490.
- Lerch, Hermann C. H., Amerika-on-the-Mulde, Germany. Flier spinning and twisting machine. No. 1,148,102; July 27; Gaz. vol. 216; p. 1164.
- Lerch, William G., Easton, Pa. Mold for concrete burlavaults. No. 1,164,106; Dec. 14; Gaz. vol. 221; p. 526.
- Lerfeld, Julius, Belfeld, N. D. Wrench. No. 1,155,937; Oct. 5; Gaz. vol. 219; p. 212.
- Lesch, Peter. (See Drachonovsky, John B., assignor.)
- Leschbrandt, Einar, Philadelphia, Pa., assignor to L. Maxwell, receiver, Cincinnati, Ohio. Note-sheet. No. 1,147,738; July 27; Gaz. vol. 216; p. 1034.
- Lescher, J. G. (See Parisho, George W., assignor.)
- Leschziner, Siegfried, Newark, N. J. Rail-joint. No. 1,151,368; Aug. 24; Gaz. vol. 217; p. 1236.
- Leschziner, Siegfried, Newark, N. J. Nut-lock and washer. No. 1,156,016; Oct. 5; Gaz. vol. 219; p. 240.
- Leseman, Carl. (See Barron and Leseman.)
- Lesh, Edwin Z., Hartford, Conn. Drafting instrument. No. 1,127,033; Feb. 2; Gaz. vol. 211; p. 131.
- Leshner, Earl W., Cleveland, Ohio. Outfit for polishing shoes. No. 1,129,580; Feb. 23; Gaz. vol. 211; p. 1145.
- Leshner, Earl W., assignor to The Mechanical Products Company, Cleveland, Ohio. Robe-rail lock. No. 1,162,086; Nov. 30; Gaz. vol. 220; p. 1472.
- Leslie, Albert F., New York, N. Y. Toilet dispensing-cabinet. No. 1,134,879; Apr. 6; Gaz. vol. 213; p. 285.
- Leslie, Bonnafor, assignor of one-half to S. D. Zaphyriades, Chicago, Ill. Therapeutic cabinet. No. 1,158,382; Oct. 26; Gaz. vol. 219; p. 1187.
- Leslie, Hugh M., Glasgow, Scotland. Treatment of ores by the cyanid process. No. 1,158,513; Nov. 2; Gaz. vol. 220; p. 36.
- Leslie, Hugh M., Glasgow, Scotland. Extraction of metals from their ores. No. 1,158,514; Nov. 2; Gaz. vol. 220; p. 37.
- Leslie, Lee B., and M. E. Feuerbacher, Dallas, Tex.; said Feuerbacher assignor to said Leslie. Garden-hose holder. No. 1,123,900; Jan. 5; Gaz. vol. 210; p. 239.
- Lesnikowski, Szymon H., Detroit, Mich. Wardrobe-trunk. No. 1,129,211; Feb. 23; Gaz. vol. 211; p. 1016.
- Lespagnol, Albert, Bois-Colombes, France. Automatic stone-sawing mechanism. No. 1,155,156; Sept. 28; Gaz. vol. 218; p. 1076.
- Lesser, Benjamin. (See Beldoeh, Herman, assignor.)
- Lessing, Rudolf, London, England. Hydrogenation of unsaturated substances. No. 1,162,623; Nov. 30; Gaz. vol. 220; p. 1654.
- Lessing, Samuel J., Chicago, Ill. Automobile number-light. No. 1,145,692; July 6; Gaz. vol. 216; p. 251.
- Lester, Alfred F., Detroit, Mich. Flexible hydraulic waterproof compound. No. 1,157,234; Oct. 19; Gaz. vol. 219; p. 723.
- Lester, Darius D., Roanoke, Va. Rotary engine. No. 1,147,330; July 20; Gaz. vol. 216; p. 862.
- Lester, Frederick A., Chicago, Ill. Rail-fastening. No. 1,136,020; Apr. 20; Gaz. vol. 213; p. 769.
- Lester, Frederick A., Chicago, Ill. Metallic rail-fastener. No. 1,136,021; Apr. 20; Gaz. vol. 213; p. 769.
- Lester, Frederick A., assignor to Chicago Standard Equipment Company, Chicago, Ill. Metallic tie and rail-fastening therefor. No. 1,143,841; June 22; Gaz. vol. 215; p. 1063.
- Lester, Frederick A., assignor to Chicago Standard Equipment Company, Chicago, Ill. Car-roof. No. 1,150,133; Aug. 17; Gaz. vol. 217; p. 753.
- Lester, George W. (See Randall and Lester.)
- Lester, James F., assignor to R. Merrifield, New York, N. Y. Pasteurizing milk. No. 1,141,566; June 1; Gaz. vol. 215; p. 171.
- Lester, Mack, Tacoma, Wash. Deliveryman's cabinet. No. 1,164,201; Dec. 14; Gaz. vol. 221; p. 557.
- Letin, Chris, and F. Frey, San Francisco, Cal. Fish-splitting machine. No. 1,138,300; May 4; Gaz. vol. 214; p. 202.
- Letroeur, Maurice, Viry, France. Plow. No. 1,150,438; Aug. 17; Gaz. vol. 217; p. 860.
- Leuchsenring, Konrad. (See Ott and Leuchsenring.)
- Leuenberger, Johann, and H. Senn, Berne, Switzerland. Balance. No. 1,145,427; July 6; Gaz. vol. 216; p. 157.

Alphabetical list of patentees—Continued.

- Leupold, Voelpel & Co. (See Stevens, John C., assignor.)
 Lev, Mark Jr., Los Angeles, Cal. Trolley. No. 1,140,689; May 25; Gaz. vol. 214; p. 1151.
 Levalley, Christopher W., Milwaukee, Wis. Machine for heating and mixing materials. No. 1,123,901; Jan. 5; Gaz. vol. 210; p. 239.
 Levalley, Christopher W., Milwaukee, Wis. Armored tire. No. 1,124,753; Jan. 12; Gaz. vol. 210; p. 588.
 Levalley, Christopher W., Milwaukee, Wis. Transmission-gearing. No. 1,151,022; Aug. 24; Gaz. vol. 217; p. 1120.
 Levalley, Christopher W., Milwaukee, Wis. Transmission-gearing. No. 1,151,482; Aug. 24; Gaz. vol. 217; p. 1274.
 Levalley, Christopher W., Milwaukee, Wis. Transmission-gearing. No. 1,151,483; Aug. 24; Gaz. vol. 217; p. 1274.
 Levalley, Christopher W., Milwaukee, Wis. Transmission-gearing. No. 1,151,484; Aug. 24; Gaz. vol. 217; p. 1275.
 Levalley, Christopher W., Milwaukee, Wis. Transmission-gearing. No. 1,151,485; Aug. 24; Gaz. vol. 217; p. 1275.
 Levaugh, Elbert S., Milo, Mo. Adjustable bound. No. 1,115,073; July 6; Gaz. vol. 216; p. 36.
 Levedahl, Axel, Aurora, assignor to Aurora Automatic Machinery Company, Chicago, Ill. Automatic shut-off device. No. 1,133,483; Mar. 30; Gaz. vol. 212; p. 1443.
 Leveen, Swan J., assignor to Trio Manufacturing Company, Rock Island, Ill. Starting-switch. No. 1,161,233; Nov. 23; Gaz. vol. 220; p. 1127.
 Leveille, Edmond, Salem, Mass. Connection for rail-joints. No. 1,147,251; July 20; Gaz. vol. 216; p. 837.
 Leveque, Aime C., et al. (See Frost, Walter E., assignor.)
 Lever-Lock Company. (See Cass, Harry S., assignor.)
 Leverett, Harry L. (See Kassander and Leverett.)
 Levering, James F., Chester, Pa. Rotary internal-combustion engine. No. 1,138,388; May 4; Gaz. vol. 214; p. 235.
 Levy, David L., Los Angeles, Cal. Rodent-extermimating system. No. 1,137,639; Apr. 27; Gaz. vol. 213; p. 1380.
 Levy, David L., Los Angeles, Cal. Rodent-trap. No. 1,137,640; Apr. 27; Gaz. vol. 213; p. 1381.
 Levy, Thomas J., Baltimore, assignor to International Cap and Sealing Machine Co., Highlandtown, Md. Bottle-capping machine. No. 1,160,084; Nov. 9; Gaz. vol. 220; p. 620.
 Levi, Benjamin, New York, N. Y. Safety device for presses. No. 1,155,745; Oct. 5; Gaz. vol. 219; p. 145.
 Levi, Benjamin, New York, N. Y. Safety device for presses. No. 1,155,746; Oct. 5; Gaz. vol. 219; p. 146.
 Levi, Louis E., Milwaukee, Wis., assignor of one-third to C. H. Propach, Chicago, Ill. Waterproofing and strengthening compound for concrete. No. 1,128,696; Feb. 16; Gaz. vol. 211; p. 799.
 Levi, Louis E., assignor to Pfister & Vogel Leather Company, Milwaukee, Wis. Tawing and tanning. No. 1,135,977; Apr. 13; Gaz. vol. 213; p. 713.
 Levi, Sam., New York, and W. F. Sultz, New Rochelle, N. Y. Amusement device. No. 1,128,466; Feb. 16; Gaz. vol. 211; p. 721.
 Levick, John, Jr., Handsworth, Birmingham, England. Draw and buffer gear for railway and other vehicles. No. 1,166,377; Dec. 28; Gaz. vol. 221; p. 1403.
 Levin, Edward, New York, N. Y. Self-locking extensible stand or support. No. 1,136,147; Apr. 20; Gaz. vol. 213; p. 813.
 Levin, Edward, New York, N. Y. Garment-form. No. 1,136,148; Apr. 20; Gaz. vol. 213; p. 813.
 Levin, Edward, Brooklyn, N. Y. Sectional garment-form. No. 1,160,420; Nov. 16; Gaz. vol. 220; p. 791.
 Levin, Isaac, Brooklyn, N. Y. Sectional garment-form. No. 1,153,633; Sept. 14; Gaz. vol. 218; p. 488.
 Levin, Isaac, Brooklyn, N. Y. Collapsible garment-form stand. No. 1,153,634; Sept. 14; Gaz. vol. 218; p. 488.
 Levin, Isaac H., Newark, N. J., assignor to International Oxygen Company, Electrolytic apparatus. No. 1,153,168; Sept. 7; Gaz. vol. 218; p. 282.
 Levin, Max, Chicago, Ill. Ironing-machine. No. 1,124,477; Jan. 12; Gaz. vol. 210; p. 490.
 Levin, Nils D., Chicago, Ill., assignor to Jeffrey Manufacturing Co., Columbus, Ohio. Mining-machine. No. 1,127,784; Feb. 9; Gaz. vol. 211; p. 433.
 Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Locomotive. No. 1,132,727; Mar. 23; Gaz. vol. 212; p. 1136.
 Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electric locomotive with cable-reeling mechanism. No. 1,136,246; Apr. 20; Gaz. vol. 213; p. 848.
 Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining-machine and truck. No. 1,137,337; Apr. 27; Gaz. vol. 213; p. 1277.
 Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Cable-winding mechanism. No. 1,137,338; Apr. 27; Gaz. vol. 213; p. 1278.
 Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Bit-holder for mining-machines. No. 1,140,173; May 18; Gaz. vol. 214; p. 938.
 Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric motor. No. 1,157,945; Oct. 26; Gaz. vol. 219; p. 1034.
 Levin, Solomon, Holdrege, Nebr. Shoulder-pad. No. 1,151,696; Aug. 31; Gaz. vol. 217; p. 1395.
 Levine, Abraham, and J. Rotstein, Jersey City, N. J. Mirror and receptacle for hats or caps. No. 1,124,042; Jan. 5; Gaz. vol. 210; p. 287.
 Levine, Joseph M., et al. (See Carmody, Harold J., assignor.)
 Levine, Moses C., New York, N. Y. Automatic crank-releasing mechanism. No. 1,128,012; Feb. 9; Gaz. vol. 211; p. 514.
 Levine, Phillip, New York, N. Y. Cap. No. 1,144,366; June 29; Gaz. vol. 215; p. 1277.
 Livingston, Aaron. (See Sturgis, Herbert M., assignor.)
 Levinstein, Herbert, Blackley, Manchester, assignor to Company of Levinstein Limited, Manchester, England. Production of fast-colored prints. No. 1,157,705; Oct. 26; Gaz. vol. 219; p. 950.
 Levinstein, Herbert, and J. Baddiley, assignors to Company of Levinstein Limited, Manchester, England. Azo dyestuffs. No. 1,153,555; Sept. 14; Gaz. vol. 218; p. 462.
 Levinstein Limited, Company of. (See Levinstein, Herbert, assignor.)
 Levis, James H., Ipswich, Mass. Cattle-stanchion. No. 1,152,523; Sept. 7; Gaz. vol. 218; p. 52.
 Levis, John H., Jr., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual call-distributing system. (Reissue.) No. 13,890; Mar. 9; Gaz. vol. 212; p. 663.
 Levis, Thomas S., assignor to Model Form Company, Chicago, Ill. Adjustable frictional clamping device. No. 1,147,029; July 20; Gaz. vol. 216; p. 759.
 Levison, Maurice, assignor to Chicago Signal Company, Chicago, Ill. Electric switch. No. 1,126,494; Jan. 26; Gaz. vol. 210; p. 1278.
 Levison, Maurice, assignor to Chicago Signal Company, Chicago, Ill. Signaling-instrument set. No. 1,128,013; Feb. 9; Gaz. vol. 211; p. 514.
 Levison, Maurice, assignor to Chicago Signal Company, Chicago, Ill. Circuit-controlling device. No. 1,157,012; Oct. 19; Gaz. vol. 219; p. 644.
 Levison, Maurice, assignor to W. P. Crockett, Chicago, and L. Hammond, Evanston, Ill. Means for divided control of an electric signal device. No. 1,153,505; Sept. 14; Gaz. vol. 218; p. 443.
 Levitt, Louis, and I. Rendelman, New York, N. Y. Safety-lock for milk-bottles. No. 1,139,780; May 18; Gaz. vol. 214; p. 797.
 Levy, Arthur S., Birmingham, Ala. Dentist's anvil. No. 1,151,200; Aug. 24; Gaz. vol. 217; p. 1181.
 Levy, Edward D., Springfield, Mo. Composite freight-car. No. 1,132,195; Mar. 16; Gaz. vol. 212; p. 893.
 Levy, Edward D., Springfield, Mo. Stop for railway-switches. No. 1,136,967; Apr. 27; Gaz. vol. 213; p. 1141.
 Levy, Felix F., San Francisco, Cal. Can-topping machine. No. 1,159,848; Nov. 9; Gaz. vol. 220; p. 539.
 Levy, Fortunato, Paris, France. Atomizing liquid compositions such as paint. No. 1,128,697; Feb. 16; Gaz. vol. 211; p. 799.
 Levy, Firm of Henri. (See Niggli, August, assignor.)
 Levy, Henry. (See Wolter, Josef, assignor.)
 Levy, Howard S. (See Levy, Louis E. and H. S.)
 Levy, Joseph B., Philadelphia, Pa. Vacuum-controlled printing-frame. No. 1,126,796; Feb. 2; Gaz. vol. 211; p. 47.
 Levy, Lazarus and W., New York, N. Y. Manufacture of garments. No. 1,161,702; Nov. 23; Gaz. vol. 220; p. 1291.
 Levy, Louis E., assignor to Graphic Arts Company, Philadelphia, Pa. Etching apparatus. No. 1,166,378; Dec. 28; Gaz. vol. 221; p. 1403.
 Levy, Louis E. and H. S.; said Louis E. Levy assignor to Graphic Arts Company, Philadelphia, Pa. Etching apparatus. No. 1,137,339; Apr. 27; Gaz. vol. 213; p. 1278.
 Levy, Samuel J., Johnstown, Pa. Sleigh-runner for vehicles. No. 1,128,698; Feb. 16; Gaz. vol. 211; p. 800.
 Levy, William. (See Levy, Lazarus and W.)
 Lewellen, John W., Ridal, Pa. Wheel. No. 1,157,559; Oct. 19; Gaz. vol. 219; p. 836.
 Lewi, William G., Albany, N. Y. Speed-controlling lever. No. 1,145,074; July 6; Gaz. vol. 216; p. 36.
 Lewin, Moritz, assignor to H. Waterson, New York, N. Y. Theatrical appliance. No. 1,150,869; Aug. 24; Gaz. vol. 217; p. 1069.
 Lewinson, Harry. (See Smith, Edmund L., assignor.)
 Lewis, A. S., et al. (See Scheble, Eugene S., assignor.)
 Lewis, Abraham I., Newark, N. J. Cigar-moistener. No. 1,148,595; Aug. 3; Gaz. vol. 217; p. 40.
 Lewis, Abraham K., Middletown, Ohio, assignor to The American Rolling Mill Company, Newark, N. J., and Middletown, Ohio. Dipping-machine. No. 1,146,180; July 13; Gaz. vol. 216; p. 442.
 Lewis, Abram J., New York, N. Y. Pocket for coats, shirts, and the like. No. 1,154,258; Sept. 21; Gaz. vol. 218; p. 739.
 Lewis, Albert H., assignor of one-third to C. C. Starker and one-third to C. R. Starker, New Comerston, Ohio. Rail-joint. No. 1,128,157; Feb. 9; Gaz. vol. 211; p. 565.
 Lewis, Arthur P., et al. (See Shannon, Leon T., assignor.)

Alphabetical list of patentees—Continued.

- Lewis, Arthur P., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Selvage-cutter. No. 1,133,297; Mar. 30; Gaz. vol. 212; p. 1379.
- Lewis, Benjamin, Schenectady, N. Y., assignor to General Electric Company, Valve. No. 1,156,535; Oct. 12; Gaz. vol. 219; p. 446.
- Lewis, Benjamin B., Bridgeport, Conn. Artificial tooth. No. 1,161,141; Nov. 23; Gaz. vol. 220; p. 1093.
- Lewis, Benjamin B., Bridgeport, Conn. Submarine lighting. No. 1,161,939; Nov. 30; Gaz. vol. 220; p. 1421.
- Lewis, Benjamin F., assignor of one-half to J. P. Larkin, Pittsburgh, Pa. Ticket-recording device. No. 1,163,422; Dec. 7; Gaz. vol. 221; p. 240.
- Lewis Change Meter Company, The. (See Lewis, John B., assignor.)
- Lewis, Charles C., Burlington, N. J. Railway-tie. No. 1,146,721; July 13; Gaz. vol. 216; p. 630.
- Lewis, Dean C., assignor to Lewis Manufacturing Company, Philadelphia, Pa. Mechanically-operated gear-changing mechanism for automobiles. No. 1,150,045; Aug. 17; Gaz. vol. 217; p. 722.
- Lewis, Dorman A., Los Angeles, Cal. Heat-distributing attachment. No. 1,164,368; Dec. 14; Gaz. vol. 221; p. 617.
- Lewis, Edward B., Pacific Grove, Cal. Pin-back. No. 1,163,350; Dec. 7; Gaz. vol. 221; p. 216.
- Lewis, Edward D., Elmira, N. Y. Portable crematory. No. 1,153,871; Sept. 14; Gaz. vol. 218; p. 573.
- Lewis, Edward Z., Chicago, Ill., assignor to The General Manifold and Printing Company, Franklin, Pa. Manifold-book. No. 1,156,411; Oct. 12; Gaz. vol. 219; p. 403.
- Lewis, Elias, Terre Haute, Ind. Vegetable-slicer. No. 1,157,013; Oct. 19; Gaz. vol. 219; p. 644.
- Lewis, Ellis R., and D. J. Cook, Kalamazoo, Mich. Lamp. No. 1,161,940; Nov. 30; Gaz. vol. 220; p. 1421.
- Lewis, Evan, Swansea, Wales. Reversing-valve of gas-fired smelting-furnaces and the like. No. 1,146,582; July 13; Gaz. vol. 216; p. 585.
- Lewis, Evan R., and L. Salzinger, Wilkes-Barre, Pa. Chimney-motor. No. 1,140,990; May 25; Gaz. vol. 214; p. 1258.
- Lewis, Everett C., Seekonk, Mass., assignor to Universal Winding Company, Portland, Me. Winding-machine. No. 1,126,039; Jan. 26; Gaz. vol. 210; p. 1114.
- Lewis, Fred K., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Bow-socket separator. No. 1,143,637; June 22; Gaz. vol. 215; p. 994.
- Lewis, Frederic E., Jr. (See Fielding and Lewis.)
- Lewis, George, Northampton, England. Lacing or fastening boot and shoe uppers. No. 1,161,871; Nov. 30; Gaz. vol. 220; p. 1395.
- Lewis, George A. (See Neely and Lewis.)
- Lewis, George H., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Cutting-knife for calendars. No. 1,151,527; Aug. 24; Gaz. vol. 217; p. 1290.
- Lewis, George S., Springfield, assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Firearm. No. 1,136,247; Apr. 20; Gaz. vol. 213; p. 848.
- Lewis, George W. (See Upton and Lewis.)
- Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,123,328; Jan. 5; Gaz. vol. 210; p. 45.
- Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Chicago, Ill. Making draft-rigging parts. No. 1,125,570; Jan. 19; Gaz. vol. 210; p. 914.
- Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Refrigerator-car-door-locking mechanism. No. 1,140,517; May 25; Gaz. vol. 214; p. 1093.
- Lewis, Guy V., Caddo, La., assignor to Beaumont Iron Works Co., Beaumont, Tex. Pipe-wrench. No. 1,128,467; Feb. 16; Gaz. vol. 211; p. 721.
- Lewis, Harold C., East Rockaway, N. Y. Tree-removing machine. No. 1,131,392; Mar. 9; Gaz. vol. 212; p. 571.
- Lewis, Harry A., Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company. Reversing-switch. No. 1,155,157; Sept. 28; Gaz. vol. 218; p. 1076.
- Lewis, Harry C. (See Mace, William W., assignor.)
- Lewis, Harry E., Harlan, Iowa. Foldable slip-tray for computing-machine stands. No. 1,166,062; Dec. 28; Gaz. vol. 221; p. 1286.
- Lewis, Henry W., Indianapolis, Ind. Street and station indicator. No. 1,127,461; Feb. 9; Gaz. vol. 211; p. 320.
- Lewis, Isaac N., New York, N. Y., assignor to The Automatic Arms Company, Buffalo, N. Y. Automatic firearm. No. 1,142,896; June 15; Gaz. vol. 215; p. 711.
- Lewis, James C., Brookline, assignor to Presto Inter-Rim Company, Boston, Mass. Rim for vehicle-wheels. No. 1,127,785; Feb. 9; Gaz. vol. 211; p. 433.
- Lewis, James W., Denton, Mont. Harrow. No. 1,157,706; Oct. 26; Gaz. vol. 219; p. 951.
- Lewis, John, et al. (See Beck, Washington, assignor.)
- Lewis, John B., Kit Carson, assignor to The Lewis Change Meter Company, Denver, Colo. Change-making machine. No. 1,155,359; Oct. 5; Gaz. vol. 219; p. 12.
- Lewis, John G., St. Louis, Mo. Hem or seam for sewed articles. No. 1,133,808; Mar. 30; Gaz. vol. 212; p. 1563.
- Lewis, John G., St. Louis, Mo. Seam for sewed articles. No. 1,133,809; Mar. 30; Gaz. vol. 212; p. 1563.
- Lewis, John G., St. Louis, Mo. Hem or seam for sewed articles. No. 1,155,360; Oct. 5; Gaz. vol. 219; p. 13.
- Lewis, John G., St. Louis, Mo. Sewing-machine. No. 1,156,607; Oct. 12; Gaz. vol. 219; p. 471.
- Lewis, Lawrence F., New York, N. Y., assignor to Handifolio Company, Temporary binder. No. 1,156,160; Oct. 12; Gaz. vol. 219; p. 316.
- Lewis, Leroy M., Philadelphia, Pa., assignor to Schade Valve Manufacturing Company, Reducing-valve. No. 1,148,596; Aug. 3; Gaz. vol. 217; p. 40.
- Lewis Manufacturing Company. (See Lewis, Dean C., assignor.)
- Lewis, May D., Watertown, N. Y. Device for teaching numbers. No. 1,151,279; Aug. 24; Gaz. vol. 217; p. 1208.
- Lewis, Melville O., Brooklyn, N. Y. Boiler-cleaning tool. No. 1,140,047; May 18; Gaz. vol. 214; p. 893.
- Lewis, Nathan E. (See Jacobus and Lewis.)
- Lewis, Orin L., and J. W. Moon, Tompkins, Mich. Reverse-valve mechanism for steam-engines. No. 1,123,902; Jan. 5; Gaz. vol. 210; p. 240.
- Lewis, Ralph T. (See Cobb, Manuel E., assignor.)
- Lewis, Robert D. (See McFarland and Lewis.)
- Lewis, Rollin C., Stamford, Conn. Flower-holder. No. 1,162,176; Nov. 30; Gaz. vol. 220; p. 1504.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination-lock. No. 1,145,377; July 6; Gaz. vol. 216; p. 140.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combined shield and guard lock for lock-dials. No. 1,166,231; Dec. 28; Gaz. vol. 221; p. 1351.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Releasing-slide for combination-locks. No. 1,166,232; Dec. 28; Gaz. vol. 221; p. 1351.
- Lewis, Susie R., Garnet, W. Va. Window-shade support. No. 1,151,886; Aug. 31; Gaz. vol. 217; p. 1463.
- Lewis, Thomas A., New York, N. Y. Method of and apparatus for laying submarine pipe. No. 1,152,326; Aug. 31; Gaz. vol. 217; p. 1613.
- Lewis, Wilfred, Philadelphia, Pa. Manufacture of saw-teeth. No. 1,132,592; Mar. 23; Gaz. vol. 212; p. 1086.
- Lewis, Wilfred, Philadelphia, Pa. Rotary cutter. No. 1,148,597; Aug. 3; Gaz. vol. 217; p. 41.
- Lewis, Wilfred, Philadelphia, Pa. Molding-machine. No. 1,157,403; Oct. 19; Gaz. vol. 219; p. 783.
- Lewis, Wilfred, Philadelphia, Pa. Jar-molding machine. No. 1,157,404; Oct. 19; Gaz. vol. 219; p. 783.
- Lewis, Wilfred, Haverford, Pa. Molding-machine valve mechanism. No. 1,157,406; Oct. 19; Gaz. vol. 219; p. 784.
- Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine. No. 1,157,405; Oct. 19; Gaz. vol. 219; p. 784.
- Lewis, Willard L., Walpole, Mass. Automatic web-guiding device. No. 1,136,686; Apr. 20; Gaz. vol. 213; p. 1005.
- Lewis, Willard L., Walpole, Mass., assignor to W. F. Marresford, Brooklyn, N. Y. Machine for applying fly-leaves and the like to the signatures of books. No. 1,127,034; Feb. 2; Gaz. vol. 211; p. 132.
- Lewis, Willard L., Walpole, Mass., assignor to F. A. Sayles, Pawtucket, R. I. Cloth-handling apparatus. No. 1,123,768; Jan. 5; Gaz. vol. 210; p. 195.
- Lewis, Willard L., Walpole, Mass., assignor to F. A. Sayles, Pawtucket, R. I. Machine for use in bleaching, dyeing, &c., fabrics. No. 1,166,063; Dec. 28; Gaz. vol. 221; p. 1286.
- Lewis, William, Utica, N. Y. Spring-seat. No. 1,164,534; Dec. 14; Gaz. vol. 221; p. 675.
- Lewis, William, Utica, N. Y. Spring-seat for chairs, settees, bed-couches, &c. No. 1,164,535; Dec. 14; Gaz. vol. 221; p. 675.
- Lewis, William D. (See Harris and Lewis.)
- Lewis, William H., Arrington, Va. Egg container. No. 1,139,302; May 11; Gaz. vol. 214; p. 542.
- Lewisohn, John, New York, N. Y. Colored photographic reproduction. No. 1,126,495; Jan. 26; Gaz. vol. 210; p. 1278.
- Ley, Cuthbert H., Southampton, England. Adjusting device for theodolites. No. 1,145,075; July 6; Gaz. vol. 216; p. 37.
- Ley, William N., Spokane, Wash. Game apparatus. No. 1,146,506; July 13; Gaz. vol. 216; p. 558.
- Leyendecker, Peter J., Haddonfield, N. J. Condenser. No. 1,146,722; July 13; Gaz. vol. 216; p. 631.
- Leyens, Walter S., et al. (See Johnson, Lewis, assignor.)
- Leyner, John G., Denver, Colo. Combined drill-bit-holding chuck and front cylinder-head for rock-drilling engines. No. 1,124,627; Jan. 12; Gaz. vol. 210; p. 545.
- Leyson, Sackville G., Syracuse, N. Y. Clothes-line prop. No. 1,154,704; Sept. 28; Gaz. vol. 218; p. 920.
- Liady, Fred G. (See Taylor and Liady.)
- Libano, Ferdinand, Trieste, Austria-Hungary. Insulator for overhead conductors of electric lines. No. 1,156,089; Oct. 12; Gaz. vol. 219; p. 292.
- Libbey, Albert F., Old Orchard, Me. Artificial tooth. No. 1,142,897; June 15; Gaz. vol. 215; p. 711.
- Libbey Glass Company, The. (See Nolan, Cornelius J., assignor.)
- Libbey Glass Company, The. (See Robinson, Joseph W., assignor.)
- Libby, Albion D. T. (See Lang and Libby.)

- Libby, Albion D. T., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Composite electric system. No. 1,137,150; Apr. 27; Gaz. vol. 213; p. 1208.
- Libby, Albion D. T., assignor, by mesne assignments, to Garford Manufacturing Company, Elyria, Ohio. Composite electric system. No. 1,137,151; Apr. 27; Gaz. vol. 213; p. 1209.
- Libby, Albion D. T., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Composite electric system. No. 1,137,152; Apr. 27; Gaz. vol. 213; p. 1209.
- Libby, Albion D. T., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Composite electric system. No. 1,139,127; May 11; Gaz. vol. 214; p. 533.
- Libby, Albion D. T., assignor, by mesne assignments, to The Garford Manufacturing Company, Elyria, Ohio. Composite electric system. No. 1,163,762; Dec. 14; Gaz. vol. 221; p. 406.
- Libby, Frederick J., assignor to Turtle-Back Log Bunk & Car Stake Company, Tacoma, Wash. Car-stake. No. 1,129,834; Feb. 23; Gaz. vol. 211; p. 1230.
- Liberato, Nicola, Lusk, assignor of one-seventh to H. L. Meerhoff, Irwin, one-seventh to A. Di Crescenzo, Manor, one-seventh to L. Della Penna, one-seventh to F. Mastrocilo, one-seventh to J. Di Prinzio, and one-seventh to A. Marchisio, Rillton, Pa. Animal-trap. No. 1,124,043; Jan. 5; Gaz. vol. 210; p. 287.
- Libero, Evasio L., Turin, Italy. Tap. No. 1,151,697; Aug. 31; Gaz. vol. 217; p. 1395.
- Liberty, Archie, Amasa, Mich. Safety starting device for internal-combustion engines. No. 1,148,176; July 27; Gaz. vol. 216; p. 1190.
- Liberty, Jerry C., Easthampton, Mass. Robbin-feeler stop-motion for looms. No. 1,124,044; Jan. 5; Gaz. vol. 210; p. 287.
- Libke, Theodore A., Wilton, Wis. Windmill attachment. No. 1,135,592; Apr. 13; Gaz. vol. 213; p. 578.
- Libonati, Philip, New York, N. Y. Box-opener. No. 1,135,593; Apr. 13; Gaz. vol. 213; p. 578.
- Lichtenberg, Chester, Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupter. No. 1,137,340; Apr. 27; Gaz. vol. 213; p. 1279.
- Lichtenberg, Erich H., assignor to Kochling Machine Co., Milwaukee, Wis. Distributing mechanism for concrete-mixers. No. 1,141,470; June 1; Gaz. vol. 215; p. 138.
- Lichtenberger, Richard, New Harmony, Ind. Railway construction. No. 1,159,509; Nov. 9; Gaz. vol. 220; p. 416.
- Lichtenberger, Richard, New Harmony, Ind. Wire-supporting pole. No. 1,162,294; Nov. 30; Gaz. vol. 220; p. 1514.
- Lichtenstein, Chune D., Seattle, Wash. Clothes-pressing machine. No. 1,129,408; Feb. 23; Gaz. vol. 211; p. 1085.
- Lichter, Adolph H., Springfield, assignor to Stevens-Duryea Company, Chicopee Falls, Mass. Vehicle-top. No. 1,148,598; Aug. 3; Gaz. vol. 217; p. 41.
- Lichter, Malvin, New York, N. Y. Fan. No. 1,126,797; Feb. 2; Gaz. vol. 211; p. 47.
- Lichtman, Benjamin H. (See Koslenski and Kaminski, assignors.)
- Lichtner, Albert, New York, N. Y. Skirt-marking device. No. 1,131,253; Mar. 9; Gaz. vol. 212; p. 523.
- Lickley, Ralph M., East Cleveland, assignor to J. G. Talnage, Cleveland, Ohio. Valve. No. 1,160,916; Nov. 16; Gaz. vol. 220; p. 968.
- Lidberg, Tiidolf, assignor of one-half to J. W. Morsbach, Chicago, Ill. Microscope warm stage. No. 1,144,941; June 29; Gaz. vol. 215; p. 1472.
- Lidberg, Tiidolf, assignor of one-half to J. W. Morsbach, Chicago, Ill. Incubator for microscope-stages. No. 1,144,942; June 29; Gaz. vol. 215; p. 1472.
- Lidell, Alexander N. (See Slotten and Lidell.)
- Lidgerwood Manufacturing Company. (See Eldridge, Albert J., assignor.)
- Lidgerwood Manufacturing Company. (See Kemp and Reeder, assignors.)
- Lidgerwood Manufacturing Company. (See Rankin, William J. A., assignor.)
- Lidgerwood Manufacturing Company. (See Reeder and Kemp, assignors.)
- Lidgerwood Manufacturing Company. (See Ruggles, Louis G., assignor.)
- Lidholm, Johan H., London, England. Producing calcium cyanamid. No. 1,125,350; Jan. 19; Gaz. vol. 210; p. 837.
- Lidseon, Gustave, Chicago, Ill. Sealing tool or chuck for bottles. No. 1,128,254; Feb. 9; Gaz. vol. 211; p. 597.
- Lidseon, Gustave, Chicago, Ill. Valve-wheel. No. 1,160,421; Nov. 16; Gaz. vol. 220; p. 792.
- Lieb, Albert, St. Joseph, Mo. Nozzle-area and draft regulator for locomotive-engines. No. 1,137,067; Apr. 27; Gaz. vol. 213; p. 1178.
- Liebau, Richard, Swissvale, Pa., assignor to The Westinghouse Air Spring Company. Vehicle air-spring. No. 1,128,614; Feb. 9; Gaz. vol. 211; p. 514.
- Liebau, Richard, Watervliet, N. Y., assignor to The Westinghouse Air Spring Company. Fluid-pressure device. No. 1,146,335; July 13; Gaz. vol. 216; p. 495.
- Liebau, Richard, Swissvale, Pa., assignor to The Westinghouse Air Spring Company. Vehicle air-spring. No. 1,148,177; July 27; Gaz. vol. 216; p. 1191.
- Liebeck, Harry, Philadelphia, Pa., assignor to Scott Paper Company. Holder for rolls of paper. No. 1,151,887; Aug. 31; Gaz. vol. 217; p. 1463.
- Lieber, Peter C. (See Gaynor and Lieber.)
- Lieber, Peter C., Indianapolis, Ind. Package-filler. No. 1,149,844; Aug. 10; Gaz. vol. 217; p. 590.
- Lieber, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Trimmer-saw. No. 1,128,795; Feb. 16; Gaz. vol. 211; p. 833.
- Lieber, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Roll-crusher. No. 1,141,643; June 1; Gaz. vol. 215; p. 197.
- Lieber, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Shaft-coupling. No. 1,145,602; July 6; Gaz. vol. 216; p. 218.
- Lieber, William H., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, Crusher. No. 1,149,146; Aug. 3; Gaz. vol. 217; p. 231.
- Lieberman, Abraham. (See Caspers and Lieberman.)
- Lieberman, Joseph, A. Friedman, and B. Rose, Philadelphia, Pa. Fastening device for garments. No. 1,137,499; Apr. 27; Gaz. vol. 213; p. 1333.
- Liebert, Constantin, Warsaw, and W. Liebert, Moscow, Russia. Filing-cabinet. No. 1,149,999; Aug. 10; Gaz. vol. 217; p. 645.
- Liebert, Wacław. (See Liebert, Constantin and W.)
- Liebig, Reuben J., and E. Anderson, St. Paul, Minn. Glass-washing device. No. 1,132,728; Mar. 23; Gaz. vol. 212; p. 1137.
- Liebig, William G., Detroit, Mich. Brush-making machine. No. 1,125,136; Jan. 19; Gaz. vol. 210; p. 759.
- Liebig, William G., Detroit, Mich. Boring-machine for brush-backs. No. 1,125,351; Jan. 19; Gaz. vol. 210; p. 837.
- Liebig, William G., Detroit, Mich. Brush-making machinery. No. 1,161,394; Nov. 23; Gaz. vol. 220; p. 1185.
- Lied, Joseph, Clayton, S. D. Corn-harvester. No. 1,155,827; Oct. 5; Gaz. vol. 219; p. 176.
- Liebmann, Alfred J., and W. A. McGrath, assignors to Independent Lamp and Wire Company, Inc., New York, N. Y. Making contact bodies of tungsten. No. 1,155,426; Oct. 5; Gaz. vol. 219; p. 36.
- Liebmann, Alfred J., and W. A. McGrath, assignors to Independent Lamp and Wire Company, Inc., New York, N. Y. Contact bodies of tungsten. No. 1,155,427; Oct. 5; Gaz. vol. 219; p. 36.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,496; Jan. 26; Gaz. vol. 210; p. 1278.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,497; Jan. 26; Gaz. vol. 210; p. 1279.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,498; Jan. 26; Gaz. vol. 210; p. 1279.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair and clamping means therefor. No. 1,126,499; Jan. 26; Gaz. vol. 210; p. 1280.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,500; Jan. 26; Gaz. vol. 210; p. 1280.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,501; Jan. 26; Gaz. vol. 210; p. 1281.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,502; Jan. 26; Gaz. vol. 210; p. 1281.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,503; Jan. 26; Gaz. vol. 210; p. 1282.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,504; Jan. 26; Gaz. vol. 210; p. 1282.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,505; Jan. 26; Gaz. vol. 210; p. 1283.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,506; Jan. 26; Gaz. vol. 210; p. 1283.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,507; Jan. 26; Gaz. vol. 210; p. 1283.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,508; Jan. 26; Gaz. vol. 210; p. 1284.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,509; Jan. 26; Gaz. vol. 210; p. 1285.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Adjustable rail-chair. No. 1,126,510; Jan. 26; Gaz. vol. 210; p. 1285.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Adjustable rail-chair. No. 1,126,511; Jan. 26; Gaz. vol. 210; p. 1285.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,512; Jan. 26; Gaz. vol. 210; p. 1286.

Alphabetical list of patentees—Continued.

- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,513; Jan. 26; Gaz. vol. 210; p. 1286.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Adjustable rail-chair. No. 1,126,514; Jan. 26; Gaz. vol. 210; p. 1287.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Adjustable rail-chair. No. 1,126,515; Jan. 26; Gaz. vol. 210; p. 1287.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Adjustable rail-chair. No. 1,126,517; Jan. 26; Gaz. vol. 210; p. 1288.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair for bridges and trestles. No. 1,126,518; Jan. 26; Gaz. vol. 210; p. 1289.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair for bridges. No. 1,126,519; Jan. 26; Gaz. vol. 210; p. 1289.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,520; Jan. 26; Gaz. vol. 210; p. 1290.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair for roadways and street-crossings. No. 1,126,521; Jan. 26; Gaz. vol. 210; p. 1290.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Self-locking rail chair. No. 1,126,522; Jan. 26; Gaz. vol. 210; p. 1290.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,523; Jan. 26; Gaz. vol. 210; p. 1291.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail joint chair. No. 1,126,524; Jan. 26; Gaz. vol. 210; p. 1291.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair for super-elevating curves. No. 1,126,525; Jan. 26; Gaz. vol. 210; p. 1292.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Tie-anchoring rail-chair. No. 1,126,526; Jan. 26; Gaz. vol. 210; p. 1292.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Adjustable rail chair. No. 1,126,527; Jan. 26; Gaz. vol. 210; p. 1292.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Guard-rail chair. No. 1,126,528; Jan. 26; Gaz. vol. 210; p. 1293.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,529; Jan. 26; Gaz. vol. 210; p. 1293.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Chair for frog and switch guard-rails. No. 1,126,530; Jan. 26; Gaz. vol. 210; p. 1294.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Screw-spike for rail-chairs. No. 1,126,531; Jan. 26; Gaz. vol. 210; p. 1294.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Adjustable rail chair. No. 1,126,532; Jan. 26; Gaz. vol. 210; p. 1294.
- Liebmann, August G., Butte, Mont., assignor to Vignoles Rail Chair Company, New York, N. Y. Self-locking rail chair. No. 1,126,536; Jan. 26; Gaz. vol. 210; p. 1295.
- Liebmann, August G., Chicago, Ill., assignor to Vignoles Rail Chair Company. Rail-chair and rail fastening. No. 1,126,516; Jan. 26; Gaz. vol. 210; p. 1288.
- Liebmann, August G., Chicago, Ill., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,533; Jan. 26; Gaz. vol. 210; p. 1295.
- Liebmann, August G., Chicago, Ill., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,534; Jan. 26; Gaz. vol. 210; p. 1295.
- Liebmann, August G., Chicago, Ill., assignor to Vignoles Rail Chair Company, New York, N. Y. Rail-chair. No. 1,126,535; Jan. 26; Gaz. vol. 210; p. 1296.
- Liebstein, Hermann R., Putney, England. Lathe tool-holder. No. 1,161,056; Nov. 23; Gaz. vol. 220; p. 1063.
- Liebzelt, Henry G., Sheboygan Falls, Wis. Liquid-foot burner. No. 1,129,212; Feb. 23; Gaz. vol. 211; p. 1016.
- Liechty, Hermann, Berne, Switzerland. Axle for automobile bicycles. No. 1,136,348; Apr. 20; Gaz. vol. 213; p. 884.
- Liechty, Hermann, Berne, Switzerland. Axle for motor-cars. No. 1,136,349; Apr. 20; Gaz. vol. 213; p. 884.
- Liedke, Edmund (See Pappal, Anthony, assignor.)
- Lien, Hannah, Minneapolis, Minn. Lock. No. 1,157,407; Oct. 19; Gaz. vol. 219; p. 785.
- Lien, Marcus H., Kennebuc, S. D. Milk-pail support. No. 1,165,188; Dec. 21; Gaz. vol. 221; p. 945.
- Liese, Augustus, South Lancaster, Mass. Wrench. No. 1,127,786; Feb. 9; Gaz. vol. 211; p. 474.
- Lieskovan, Joseph, Bach, Mich. Portable vehicle turn table. No. 1,124,628; Jan. 12; Gaz. vol. 210; p. 545.
- Lietz, Adolph, San Rafael, Cal. Transit-frame. No. 1,136,883; Apr. 20; Gaz. vol. 213; p. 1074.
- Lietz, Adolph, San Rafael, Cal. Transit. No. 1,159,510; Nov. 9; Gaz. vol. 220; p. 416.
- Lietz, Felix E., and J. Reiners, Buffalo, N. Y. Valve. No. 1,149,845; Aug. 10; Gaz. vol. 217; p. 590.
- Lièvre, Joseph, Corpus Christi, Tex. Electric signal. No. 1,141,127; June 1; Gaz. vol. 215; p. 13.
- Life Saving Devices Company. (See Mayer and Fowler, assignors.)
- Life Targets Limited. (See Corbin and Harris, assignors.)
- Liger, Eugene L. (See Liger, Francis E., assignor.)
- Liger, Francis E., Laingsburg, Mich., assignor to E. L. Liger, Cincinnati, Ohio. Vehicle-curtain. No. 1,159,321; Nov. 2; Gaz. vol. 220; p. 317.
- Ligety, Rosalie H. (See Ligety, William L., assignor.)
- Ligety, William L., New York, assignor to R. H. Ligety, Brooklyn, N. Y. Cigar and making same. No. 1,141,399; June 1; Gaz. vol. 215; p. 113.
- Liggett, Charles E., Kirkwood, Ill. Portable stock-inclosure. No. 1,160,728; Nov. 16; Gaz. vol. 220; p. 904.
- Liggett & Myers Tobacco Company. (See Hornaday, James M., assignor.)
- Liggett, William K., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Pulverizer. No. 1,125,137; Jan. 19; Gaz. vol. 210; p. 760.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Separator-feeder. No. 1,128,796; Feb. 16; Gaz. vol. 211; p. 833.
- Liggett, William K., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Separator. No. 1,135,594; Apr. 13; Gaz. vol. 213; p. 578.
- Liggett, William K., and W. J. Armstrong, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Separator. No. 1,135,304; Apr. 13; Gaz. vol. 213; p. 476.
- Light, Bennett H., Avon, Pa. Railway-tie. No. 1,164,536; Dec. 14; Gaz. vol. 221; p. 675.
- Light, Claus H., Des Moines, Iowa. Hose-coupling. No. 1,154,259; Sept. 21; Gaz. vol. 218; p. 739.
- Light, Claus H., Des Moines, assignor of one-half to E. Rudnich, Manning, Iowa. Electric signal. No. 1,157,990; Oct. 26; Gaz. vol. 219; p. 1019.
- Light, David M., Springfield, Mo. Steam-boiler fire-box. No. 1,162,295; Nov. 30; Gaz. vol. 220; p. 1515.
- Lightbody, Thomas, Youngstown, Ohio. Mold for concrete. No. 1,123,769; Jan. 5; Gaz. vol. 210; p. 196.
- Lightburne, Alvan W., Liberty, Mo. Gate-operator. No. 1,156,161; Oct. 12; Gaz. vol. 219; p. 317.
- Lightfoot, Alfred, Williamsport, Pa. Brush. No. 1,131,068; Mar. 9; Gaz. vol. 212; p. 460.
- Lightfoot, Carl, West Union, W. Va. Headlight attachment. No. 1,129,106; Feb. 23; Gaz. vol. 211; p. 980.
- Lightfoot, Edwin N., (See Hadaway and Lightfoot.)
- Lightfoot, Edwin N., New York, N. Y. Electric heater. No. 1,144,981; June 29; Gaz. vol. 215; p. 1486.
- Lightheart, William A., assignor of one-half to G. R. Harvey, Hamilton, Ontario, Canada. Dumb-waiter. No. 1,127,462; Feb. 9; Gaz. vol. 211; p. 321.
- Lightning Letter Opener Company. (See Taylor, Henry D., assignor.)
- Ligon, Arthur L. (See Zimmer, Henry C., assignor.)
- Ligon, Arthur L., Pecos, Tex. Blacksmith's tool set. No. 1,142,447; June 8; Gaz. vol. 215; p. 517.
- Ligon, Arthur L., Pecos, Tex. Detachable handle for tools. No. 1,152,327; Aug. 31; Gaz. vol. 217; p. 1611.
- Likely, Arthur H. (See Hamilton, John R., assignor.)
- Likely, Charles H., Woody, Cal. Automatic vehicle-brake. No. 1,137,500; Apr. 27; Gaz. vol. 213; p. 1334.
- Likely, Viola, Saline, Kans. Combined dish and vegetable washer and fruit canner. No. 1,149,656; Aug. 10; Gaz. vol. 217; p. 523.
- Likes, Elbridge T., Des Moines, Iowa. Building-block. No. 1,124,478; Jan. 12; Gaz. vol. 210; p. 490.
- Lijewski, Anton, Milwaukee, Wis. Explosive shell. No. 1,163,622; Dec. 7; Gaz. vol. 221; p. 100.
- Lile, Clarence, Granite City, Ill. Chewing-gum package. No. 1,132,781; Mar. 23; Gaz. vol. 212; p. 1157.
- Lile, Milton M. (See Restorff and Lile.)
- Lichtenfeld, Freeman J., Norfolk, Va. Amusement apparatus. No. 1,124,629; Jan. 12; Gaz. vol. 210; p. 545.
- Lilienfeld, Julius E., Leipzig, Germany. Separating gas mixtures. No. 1,163,123; Dec. 7; Gaz. vol. 221; p. 211.
- Lilienfeld, Leon, Vienna, Austria-Hungary. Artificial leather and making the same. No. 1,140,174; May 18; Gaz. vol. 214; p. 938.
- Liljus, August L. (See Anttila and Liljus.)
- Liljgren, Gunnar O., St. Louis, Mo. Automatic fire-extinguisher. No. 1,123,329; Jan. 5; Gaz. vol. 210; p. 45.
- Liljebrandt, Gustave A. M., Chicago, Ill. Game apparatus. No. 1,143,210; June 15; Gaz. vol. 215; p. 822.
- Liljenroth, Frans G., Vasterås, Sweden. Means for regulating the speed of electric motors. No. 1,165,788; Dec. 28; Gaz. vol. 221; p. 1009.
- Lilleberg, Tideman M., Woodstock, Ill. Character-forming machine. No. 1,124,150; Jan. 5; Gaz. vol. 210; p. 323.
- Lilley, Lemuel T. and R. C. Gatesville, N. C. Peanut-buller. No. 1,151,486; Aug. 24; Gaz. vol. 217; p. 1276.
- Lilley, Rufus C. (See Lilley, Lemuel T. and R. C.)
- Lilley, Simeon, Sr., Deepwater, Mo. Fusing-lighting powder. No. 1,128,458; Feb. 9; Gaz. vol. 211; p. 565.
- Lilliston, Thomas M., Suffolk, Va. Bearing for peanut-pickers. No. 1,156,910; Oct. 19; Gaz. vol. 219; p. 608.

- Lilljquist, Andrew, Syracuse, N. Y. Wire-finishing machine. No. 1,156,299; Oct. 12; Gaz. vol. 219; p. 362.
- Lilly, Andrew J. (See Lilly, William T. and A. J.)
- Lilly, Josiah K., assignor to The Eli Lilly and Company, Indianapolis, Ind. Dispensing-bottle. No. 1,126,040; Jan. 26; Gaz. vol. 210; p. 1114.
- Lilly, William J., Butte, Mont. Hoisting-engine control. No. 1,153,124; Sept. 7; Gaz. vol. 218; p. 267.
- Lilly, William T. and A. J., Glen Morgan, assignors of one-half to G. C. Hedrick, Beckley, W. Va. Automatic-clench car-coupling. No. 1,158,515; Nov. 2; Gaz. vol. 220; p. 37.
- Lima Locomotive Corporation. (See Austin and Lawson, assignors.)
- Lima Locomotive Corporation. (See Wall, George L., assignor.)
- Limberg, Hermann J., Gelsenkirchen, Germany. Closure for distillation-furnaces and particularly coke-ovens. No. 1,143,411; June 15; Gaz. vol. 215; p. 893.
- Limburg, Christian, and W. D. Seelhorst, Pittsburgh, Pa. Ventilating apparatus. No. 1,133,047; Mar. 23; Gaz. vol. 212; p. 1255.
- Limer, Frank, McWhorter, W. Va. Claw-bar. No. 1,131,393; Mar. 9; Gaz. vol. 212; p. 572.
- Linaker, Frederick W. (See Hibner and Linaker.)
- Linaker, Frederick W., assignor to The Vulcan Soot Cleaner Co., of Pittsburgh, Pa., Dubois, Pa. Boiler-flue-cleaner system. No. 1,138,301; May 4; Gaz. vol. 214; p. 202.
- Linaker, Frederick W., assignor to The Vulcan Soot Cleaner Co., of Pittsburgh, Pa., Dubois, Pa. Boiler-flue-cleaner system. No. 1,144,553; June 29; Gaz. vol. 215; p. 1339.
- Linaker, Frederick W., assignor to The Vulcan Soot Cleaner Co., of Pittsburgh, Pa., Dubois, Pa. Boiler-flue-cleaner system. No. 1,148,846; Aug. 3; Gaz. vol. 217; p. 130.
- Linaker, Frederick W., assignor to The Vulcan Soot Cleaner Co., of Pittsburgh, Pa., Dubois, Pa. Tube-cleaner. No. 1,152,423; Sept. 7; Gaz. vol. 218; p. 15.
- Linaker, Frederick W., assignor to The Vulcan Soot Cleaner Co., of Pittsburgh, Pa., Dubois, Pa. Boiler-tube cleaner. No. 1,157,114; Oct. 19; Gaz. vol. 219; p. 680.
- Linaker, Frederick W., assignor to The Vulcan Soot Cleaner Co., of Pittsburgh, Pa., Dubois, Pa. Fuel-economizer soot-cleaner. No. 1,160,729; Nov. 16; Gaz. vol. 220; p. 904.
- Linaker, Frederick W., assignor to The Vulcan Soot Cleaner Co., of Pittsburgh, Pa., Dubois, Pa. Fuel-economizer soot cleaner. No. 1,160,730; Nov. 16; Gaz. vol. 220; p. 904.
- Liuam, Andrew A., Purcell, Okla. Brake-lock. No. 1,127,035; Feb. 2; Gaz. vol. 211; p. 132.
- Linck, Edward, assignor of one-half to F. Lyster, Philadelphia, Pa. Fireproof metal window-frame. No. 1,134,392; Apr. 6; Gaz. vol. 213; p. 112.
- Lincoln, Charles S., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, Crusher. No. 1,128,015; Feb. 9; Gaz. vol. 211; p. 515.
- Lincoln, Edgar E., Los Angeles, Cal. Saw-setting machine. No. 1,163,351; Dec. 7; Gaz. vol. 221; p. 216.
- Lincoln Electric Company, The. (See Lincoln, John C., assignor.)
- Lincoln Iron Works. (See Pierce, Frank, assignor.)
- Lincoln, John C., assignor to The Lincoln Electric Company, Cleveland, Ohio. Alternating-current motor starter. No. 1,163,424; Dec. 7; Gaz. vol. 221; p. 241.
- Lincoln, Leo R., Chicago, Ill. Flash-light. No. 1,151,201; Aug. 24; Gaz. vol. 217; p. 1182.
- Lincoln, Paul M., Pittsburgh, Pa. Thermo-electric ammeter. No. 1,142,898; June 15; Gaz. vol. 215; p. 711.
- Lincoln, Paul M., Pittsburgh, Pa. Electric wattmeter. No. 1,156,412; Oct. 12; Gaz. vol. 219; p. 404.
- Lincoln, Paul M., Pittsburgh, Pa. Volt-ampere meter. No. 1,156,413; Oct. 12; Gaz. vol. 219; p. 404.
- Lincoln, Paul M., Pittsburgh, Pa. Electric indicator. No. 1,156,414; Oct. 12; Gaz. vol. 219; p. 405.
- Lincoln, Paul M., Pittsburgh, Pa. Volt-ampere meter. No. 1,161,395; Nov. 23; Gaz. vol. 220; p. 1186.
- Lincoln, Paul M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Metering system. No. 1,137,873; May 4; Gaz. vol. 214; p. 52.
- Lincoln, Robert A., Electra, Tex. Pipe-clamping device. No. 1,150,870; Aug. 24; Gaz. vol. 217; p. 1069.
- Lincoln, William S., and J. F. Whitt, Nickerson, Kans. Furnace. No. 1,129,995; Mar. 2; Gaz. vol. 212; p. 55.
- Lind, Carl A., Malden, assignor of one-fourth to W. A. Thornton and one-fourth to H. M. Richards, Galesburg, Ill. Lock for ties, tie-plates, rails, and rail-anchors. No. 1,137,153; Apr. 27; Gaz. vol. 213; p. 1210.
- Lind, David H., New York, N. Y. Candelabrum. No. 1,128,884; Feb. 16; Gaz. vol. 211; p. 865.
- Lind, Henning, Topeka, Kans. Lubricating device. No. 1,134,880; Apr. 6; Gaz. vol. 213; p. 286.
- Lind, Otto S. (See Russell and Lind.)
- Lind, Trued E., Baidon, Saskatchewan, Canada. Truck-adjusting mechanism. No. 1,126,798; Feb. 2; Gaz. vol. 211; p. 48.
- Lindau, Alfred E., Chicago, Ill., assignor to Corrugated Bar Company, St. Louis, Mo. Tile-concrete floor. No. 1,165,985; Dec. 28; Gaz. vol. 221; p. 1260.
- Lindau, Charles L., Pearce, Ariz. Burner. No. 1,131,718; Mar. 16; Gaz. vol. 212; p. 719.
- Lindau, Charles L., Pearce, Ariz. Liquid-fuel boiler-furnace. No. 1,152,897; Sept. 7; Gaz. vol. 218; p. 190.
- Lindberg, John, San Francisco, Cal. Cornucopia-holder. No. 1,130,128; May 11; Gaz. vol. 214; p. 534.
- Lindberg, John F., Hibbing, Minn. Core-holder for tubular rock-drills. No. 1,145,323; July 6; Gaz. vol. 216; p. 121.
- Lindberg, John F., assignor of one-half to F. Banks, Hibbing, Minn. Fluid-pressure generator. No. 1,126,799; Feb. 2; Gaz. vol. 211; p. 48.
- Lindblom, Carl G., assignor to Aktiebolaget Lux, Stockholm, Sweden. Automatic control device for illuminating apparatus. No. 1,155,496; Oct. 5; Gaz. vol. 219; p. 61.
- Lindblom, Hjalmar, Liverpool, England. Device for securing petrol-cans or the like to motor-cars. No. 1,158,247; Oct. 26; Gaz. vol. 219; p. 1139.
- Lindby, Svante W. S. (See Hedbohm and Lindby.)
- Lindenberg, Hugo, Eskilstuna, Sweden. Liner for centrifugal separators. No. 1,141,567; June 1; Gaz. vol. 215; p. 172.
- Lindenberg, Jafet, assignor of one-half to R. Herold, Jr., San Francisco, Cal. Marking-button for animals. No. 1,159,593; Nov. 9; Gaz. vol. 220; p. 446.
- Lindenberg, William, Milles City, Mont. Clothes-boiler. No. 1,154,786; Sept. 28; Gaz. vol. 218; p. 948.
- Lindgard, Charles H., Cleveland, Ohio. Ball-holder for kettles. No. 1,133,298; Mar. 30; Gaz. vol. 212; p. 1379.
- Lindell, Arnold W., Denver, Colo. Time-switch. No. 1,142,338; June 8; Gaz. vol. 215; p. 477.
- Lindelof, Gustaf H., De Kalb, Ill. Window-scaffold. No. 1,163,023; Dec. 7; Gaz. vol. 221; p. 101.
- Lindem, Martin. (See Gugler and Lindem.)
- Lindemann, Albert J., assignor to A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Cooking-stove. No. 1,127,652; Feb. 9; Gaz. vol. 211; p. 383.
- Lindemann, Walter, Detroit, Mich. Life-saving device. No. 1,142,592; June 8; Gaz. vol. 215; p. 566.
- Lindemann, Walter C., and K. D. Camp, assignors to A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Electric welding-machine. No. 1,155,497; Oct. 5; Gaz. vol. 219; p. 61.
- Linden, Lucien, Brussels, Belgium, assignor to W. J. Stewart, Belfast, Ireland. Purifying sewage and other liquids. No. 1,160,918; Nov. 16; Gaz. vol. 220; p. 969.
- Linden, Lucien, Brussels, Belgium, assignor to W. J. Stewart, Belfast, Ireland. Apparatus for purifying sewage or any other liquid. No. 1,162,624; Nov. 30; Gaz. vol. 220; p. 1654.
- Lindenberg, Theodore, Grandview Heights, Ohio. Lubricating device for springs. No. 1,156,162; Oct. 12; Gaz. vol. 219; p. 317.
- Linder, John, Spokane, Wash. Camera-shutter. No. 1,129,303; Feb. 23; Gaz. vol. 211; p. 1049.
- Linder, Walter M. (See Smart and Linder.)
- Linderblad, Victor, Stockholm, Sweden. Cultivator. No. 1,135,305; Apr. 13; Gaz. vol. 213; p. 477.
- Linderman, Frank M., Chicago, Ill. Belt-fastener. No. 1,137,409; Apr. 27; Gaz. vol. 213; p. 1303.
- Linderman, Frank M., Chicago, Ill. Belt-fastener. No. 1,137,410; Apr. 27; Gaz. vol. 213; p. 1304.
- Lindgren, Alexis C., Moline, Ill., assignor to Moline Plow Company. Plowing-machine. No. 1,154,995; Sept. 28; Gaz. vol. 218; p. 1018.
- Lindgren, Alexis C., Moline, Ill., assignor to Moline Plow Company. Wheeled plow. No. 1,159,689; Nov. 9; Gaz. vol. 220; p. 480.
- Lindgren, Carl A., and W. H. Perkins, Hathorne, Mass. Automatic laundry-valve. No. 1,159,967; Nov. 9; Gaz. vol. 220; p. 581.
- Lindholm, Carl W. (See Kent and Lindholm.)
- Lindholm, Danel A., Belfield, N. D. Attachment for mowing-machines. No. 1,134,339; Apr. 6; Gaz. vol. 213; p. 94.
- Lindley, Lowell F. (See Spiegel and Lindley.)
- Lindley, Otto. (See Cook and Lindley.)
- Lindner, Emil O., Brooklyn, assignor of one-half to J. Jenehen, New York, N. Y. Vehicle-wheel construction. No. 1,137,154; Apr. 27; Gaz. vol. 213; p. 1210.
- Lindner, Frank H., Bloomfield, N. J. Grinder. No. 1,132,196; Mar. 16; Gaz. vol. 212; p. 893.
- Lindquist, David L. (See John and Lindquist.)
- Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Appliance for elevator safety devices. No. 1,134,753; Apr. 6; Gaz. vol. 213; p. 245.
- Lindquist, David L., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Electrical controlling apparatus. No. 1,156,415; Oct. 12; Gaz. vol. 219; p. 405.
- Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Grid resistance. No. 1,162,788; Dec. 7; Gaz. vol. 221; p. 20.
- Lindquist, David L., and D. Larson, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Slack-cable device. No. 1,148,240; July 27; Gaz. vol. 216; p. 1211.

Alphabetical list of patentees—Continued.

- Lindquist, Oscar, and A. Pisarcik, Vandergrift, assignors to American Sheet & Tin Plate Company, Pittsburgh, Pa. Apparatus for polishing rolls. No. 1,165,009; Dec. 21; Gaz. vol. 221; p. 881.
- Lindquist, Otto B., Tarentum, Pa. Sectional core for molds. No. 1,165,685; Dec. 28; Gaz. vol. 221; p. 1157.
- Lindsay, Charles F., Fairfield, and W. R. Hibbard, assignors to Union Metallic Cartridge Company, Bridgeport, Conn. Waterproofing paper tubes. No. 1,130,303; Mar. 2; Gaz. vol. 212; p. 160.
- Lindsay, Charles F., Fairfield, and F. H. Maloney, assignors to Union Metallic Cartridge Company, Bridgeport, Conn. Making and waterproofing paper tubes. No. 1,130,304; Mar. 2; Gaz. vol. 212; p. 161.
- Lindsay, Charles S., and D. H. Oliver, London, England. Internal-combustion engine. No. 1,140,384; May 25; Gaz. vol. 214; p. 1044.
- Lindsay, Clarence A., East Orange, N. J., assignor to The Chapman Truck Company, Holyoke, Mass. Truck. No. 1,148,599; Aug. 3; Gaz. vol. 217; p. 41.
- Lindsay, Hamilton, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Apparatus for testing and truing woven-wire belts. No. 1,161,703; Nov. 23; Gaz. vol. 220; p. 1291.
- Lindsay, Julian C., Forest Depot, Va. Post-hole auger. No. 1,141,568; June 1; Gaz. vol. 215; p. 172.
- Lindsay, Samuel D. (See Lindsay, Walter L. and S. D.)
- Lindsay, Solomon C., Greensburg, Pa. Lock-nut. No. 1,134,393; Apr. 6; Gaz. vol. 213; p. 113.
- Lindsay, Walter L. and S. D., Chicago, Ill. Ball-bearing universal joint. No. 1,159,690; Nov. 9; Gaz. vol. 220; p. 480.
- Lindsay, William, Chicago, Ill. Sifting apparatus. No. 1,161,234; Nov. 23; Gaz. vol. 220; p. 1128.
- Lindsay, William E., Needham, Mass. Machine for applying crown-stoppers. No. 1,162,702; Nov. 30; Gaz. vol. 220; p. 1680.
- Lindsay, William G., Caldwell, N. J., assignor to The Celuloid Company, New York, N. Y. Making acetyl-cellulose plastics. No. 1,128,468; Feb. 16; Gaz. vol. 211; p. 722.
- Lindsay, William G., Caldwell, N. J., assignor to The Celuloid Company, New York, N. Y. Making acetyl-cellulose plastic compounds. No. 1,136,248; Apr. 20; Gaz. vol. 213; p. 849.
- Lindsay, William G., Caldwell, N. J., assignor to The Celuloid Company, New York, N. Y. Solvent for acetyl cellulose. No. 1,143,979; June 22; Gaz. vol. 215; p. 1111.
- Lindsay, William G., New York, N. Y., assignor to The Celuloid Company. Non-inflammable acetyl-cellulose composition. No. 1,133,885; Mar. 30; Gaz. vol. 212; p. 1410.
- Lindsay, William J., Philadelphia, Pa., assignor to Camden Iron Works, Camden, N. J. Gas-producer. No. 1,160,516; Nov. 16; Gaz. vol. 220; p. 823.
- Lindsay, William M., assignor of one-half to F. Cumiskey, Pittsburg, Kans. Protector for mixing-machines. No. 1,128,699; Feb. 16; Gaz. vol. 211; p. 800.
- Lindsay Wire Weaving Company, The. (See Lindsay, Hamilton, assignor.)
- Lindsey, James J., Dallas, Tex. Tail-light for automobiles. No. 1,129,695; Feb. 23; Gaz. vol. 211; p. 1182.
- Lindsey, Lewis H., Birmingham, Ala. Crane-brake. No. 1,128,797; Feb. 16; Gaz. vol. 211; p. 833.
- Lindsey, Sidney. (See Menn, Herman, assignor.)
- Lindsey, Berrien M., Dallas, Tex. Differential driving mechanism. No. 1,145,378; July 6; Gaz. vol. 216; p. 140.
- Lindstrom, Charles A., Pittsburgh, Pa. Friction locking device. No. 1,153,556; Sept. 14; Gaz. vol. 218; p. 462.
- Lindstrom, Charles A., Pittsburgh, Pa. Clutch device for preventing reverse rotation. No. 1,153,557; Sept. 14; Gaz. vol. 218; p. 463.
- Lindström, Charles A., Pittsburgh, Pa. Car-door gear. No. 1,155,938; Oct. 5; Gaz. vol. 219; p. 212.
- Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Car side construction. No. 1,124,479; Jan. 12; Gaz. vol. 210; p. 491.
- Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Car-truck. No. 1,160,295; Nov. 16; Gaz. vol. 220; p. 748.
- Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Railway-car underframe. No. 1,164,731; Dec. 21; Gaz. vol. 221; p. 783.
- Lindström, Charles A., Pittsburgh, and B. D. Lockwood, Bellevue, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Car-underframe. No. 1,159,398; Nov. 9; Gaz. vol. 220; p. 376.
- Lindström, Gustaf H. (See Lagerman and Lindström.)
- Lindström, Gustaf H., assignor to Aktiebolaget Princeps, Gottenborg, Sweden. Means for driving the ink-cylinders in printing-presses with a cylinder ink device. No. 1,159,691; Nov. 9; Gaz. vol. 220; p. 480.
- Lindstrom, Gustav A., Menominee, Mich. Radiator shock-absorber. No. 1,163,425; Dec. 7; Gaz. vol. 221; p. 242.
- Lindstrom, Robert L., Tustin, Mich. Screen attachment. No. 1,162,625; Nov. 30; Gaz. vol. 220; p. 1654.
- Line, George H., Chicago, Ill. Belt-buckle. No. 1,134,686; Apr. 6; Gaz. vol. 213; p. 220.
- Lineberg, Albert E., Wilkes-Barre, Pa. Car-replacer. No. 1,137,641; Apr. 27; Gaz. vol. 213; p. 1381.
- Linehan, Charles A. (See Slattery and Linehan.)
- Lines, Lewis A., Perry, N. Y. Nut-lock. No. 1,142,899; June 15; Gaz. vol. 215; p. 711.
- Linford, Maurice, Rocking, Braintree, assignor to Courtaulds Limited, London, England. Ornamenting fabrics. No. 1,137,501; Apr. 27; Gaz. vol. 213; p. 1334.
- Linford, Charles, Logan, Utah. Cabinet ironing-board. No. 1,134,394; Apr. 6; Gaz. vol. 213; p. 113.
- Linga, Torbjörn, Thor, Iowa, assignor to American Ditching Machine Company, West Minneapolis, Minn. Ditching-machine apparatus. No. 1,152,524; Sept. 7; Gaz. vol. 218; p. 53.
- Linga, Torbjörn, Thor, Iowa, assignor to American Ditching Machine Company, West Minneapolis, Minn. Caterpillar-wheel for ditching-machines. No. 1,152,525; Sept. 7; Gaz. vol. 218; p. 54.
- Lingenfelter, John E., Clarkston, Wash. Animal-trap. No. 1,164,369; Dec. 14; Gaz. vol. 221; p. 617.
- Lingner, Julius S., East Glastonbury, Conn. Match-box. No. 1,137,642; Apr. 27; Gaz. vol. 213; p. 1381.
- Linhoff, Joseph. (See Audett and Linhoff.)
- Link, Adolf P., Brooklyn, N. Y. Water-still. No. 1,150,439; Aug. 17; Gaz. vol. 217; p. 860.
- Link-Belt Company. (See Dodge, James M., assignor.)
- Link-Belt Company. (See Hayward, Henry E., assignor.)
- Link-Belt Company. (See Howe, Louis C., assignor.)
- Link-Belt Company. (See Jamison and Christian, assignors.)
- Link-Belt Company. (See Johnston, Arthur C., assignor.)
- Link-Belt Company. (See McGann, William H., assignor.)
- Link-Belt Company. (See Pierce, Harold S., assignor.)
- Link-Belt Company. (See Pratt, Howell D., assignor.)
- Link-Belt Company. (See Rapp, Axel G. J., assignor.)
- Link-Belt Company. (See Savers, Albert J., assignor.)
- Link-Belt Company. (See Titcomb, George E., assignor.)
- Link-Belt Company. (See Webster, Thomas F., assignor.)
- Link, George M., Dunkirk, N. Y. Combined shipping and display case. No. 1,147,519; July 20; Gaz. vol. 216; p. 930.
- Link, Richard, Akron, Ohio. Device for retaining creases. No. 1,147,520; July 20; Gaz. vol. 216; p. 930.
- Linke, Emil F., Hartford, Conn., assignor to The Untype Company. Typesetting machine. No. 1,150,134; Aug. 17; Gaz. vol. 217; p. 754.
- Linke, Theodore, New York, N. Y. Self-cleaning liquid-filter. No. 1,149,926; Aug. 10; Gaz. vol. 217; p. 619.
- Linn, Allen D., assignor to Grand Rapids Vener Works, Grand Rapids, Mich. Stack-valve for drying-kilns. No. 1,149,147; Aug. 3; Gaz. vol. 217; p. 232.
- Linn, John H., Charleston, W. Va. Window curtain and shade holder. No. 1,138,493; May 4; Gaz. vol. 214; p. 271.
- Linn, Josephus A., Selma, Ala. Hasp for car-doors. No. 1,144,043; June 22; Gaz. vol. 215; p. 1135.
- Linn, Robert, Chicago, Ill. Antifriction-bearing. No. 1,124,754; Jan. 12; Gaz. vol. 210; p. 588.
- Linn, Robert, assignor of one-fourth to F. C. Edler and one-fourth to J. Alter, Chicago, Ill. Crusher. No. 1,166,403; Dec. 28; Gaz. vol. 221; p. 1413.
- Linn, Walter B. (See Foster, Turner, Bennett, and Linn.)
- Linnan, Frederick T., Spruce, W. Va. Ring-coupling for shafts. No. 1,166,064; Dec. 28; Gaz. vol. 221; p. 1287.
- Linotype and Machinery Limited. (See Billington, John E., assignor.)
- Linotype and Machinery Limited. (See Parker, Thomas R. G., assignor.)
- Linotype and Machinery Limited. (See Parker and Lee, assignors.)
- Linotype and Machinery Limited. (See Pearce, Parker, and Wright, assignors.)
- Linotype and Machinery Limited. (See Pearce and Billington, assignors.)
- Linscott, Charles W., San Francisco, Cal. Steering device. No. 1,160,296; Nov. 16; Gaz. vol. 220; p. 748.
- Linscott, Charles W., Jackson, Mich. Steering-propeller for vessels. No. 1,163,352; Dec. 7; Gaz. vol. 221; p. 217.
- Lint, Peter H., Los Gatos, Cal. Fruit-gatherer. No. 1,136,249; Apr. 20; Gaz. vol. 213; p. 849.
- Linton, Anne. (See Linton, Elizabeth and A.)
- Linton, Edgerton K., Saginaw, Mich. Cooking utensil. No. 1,157,991; Oct. 26; Gaz. vol. 219; p. 1050.
- Linton, Elizabeth and A., Philadelphia, Pa. Clamp. No. 1,132,364; Mar. 16; Gaz. vol. 212; p. 953.
- Linton, George E., assignor to F. C. Montgomery, Worcester, Mass. Knife-blade switch. No. 1,136,472; Apr. 20; Gaz. vol. 213; p. 930.
- Lintz, J. Fetzner, et al. (See Maness, John M., assignor.)
- Linvile, John W., and C. C. Tillman, assignors to Linvile, Tillman & Co., Toledo, Ohio. Coring-machine. No. 1,155,252; Sept. 28; Gaz. vol. 218; p. 1106.
- Linvile, Tillman & Co. (See Linvile and Tillman, assignors.)
- Lion, Arthur, et al. (See Markstein, Robert, assignor.)
- Lion, Robert, et al. (See Markstein, Robert, assignor.)
- Lipari, Harry, San Francisco, Cal. Tooth-brush. No. 1,140,690; May 25; Gaz. vol. 214; p. 1151.
- Lipawsky, Louis, New York, N. Y. Hat-pin protector. No. 1,163,833; Dec. 14; Gaz. vol. 221; p. 431.
- Lipe, Willard C., Syracuse, N. Y. Broom-sewing machine. No. 1,123,903; Jan. 5; Gaz. vol. 210; p. 240.

- Lipe, Willard C., and H. D. Weed, assignors to Railway Roller Bearing Company, Syracuse, N. Y. Antifriction-bearing for axles. No. 1,123,904; Jan. 5; Gaz. vol. 210; p. 241.
- Lipe, Willard C., and H. D. Weed, assignors to Railway Roller Bearing Company, Syracuse, N. Y. Antifriction-bearing for axles. No. 1,160,626; Nov. 16; Gaz. vol. 220; p. 866.
- Lipe, Willard C., and J. W. Coughtry, deceased, Syracuse, N. Y.; S. S. Coughtry, administratrix. Cigar-making machine. No. 1,134,469; Apr. 6; Gaz. vol. 213; p. 141.
- Lipe, Willard C., and J. W. Coughtry, deceased; S. S. Coughtry, administratrix, Syracuse, N. Y. Heading and finishing mechanism for cigar-making machines. No. 1,134,470; Apr. 6; Gaz. vol. 213; p. 141.
- Lipka, Emil. (See Souk, Joseph, assignor.)
- Lipman Air Appliance Company. (See Lipman, Carl E. L., assignor.)
- Lipman, Carl E. L., assignor to Lipman Air Appliance Company, Beloit, Wis. Air-pump starter. No. 1,126,041; Jan. 26; Gaz. vol. 210; p. 1114.
- Lipman, Carl E. L., assignor to Lipman Air Appliance Company, Beloit, Wis. Starter for motor-cars. No. 1,127,036; Feb. 2; Gaz. vol. 211; p. 132.
- Lipman, Carl E. L., assignor to Lipman Air Appliance Company, Beloit, Wis. Air-gage appliance. No. 1,142,772; June 8; Gaz. vol. 215; p. 627.
- Lipofsky, Zigmund, Hoboken, N. J. Weighing apparatus. No. 1,143,638; June 22; Gaz. vol. 215; p. 994.
- Lippelt, Hans, New York, N. Y. Dynamo-electric machine. No. 1,124,630; Jan. 12; Gaz. vol. 210; p. 546.
- Lippelt, Hans, New York, N. Y. Dynamo-electric machine. No. 1,157,014; Oct. 19; Gaz. vol. 219; p. 645.
- Lippello, Michele, Uniontown, Pa. Shoe-upper. No. 1,127,037; Feb. 2; Gaz. vol. 211; p. 133.
- Lippincott, Norman R., Pittsburgh, Pa. Illuminator for cash-registers. No. 1,143,290; June 15; Gaz. vol. 215; p. 849.
- Lippincott, Samuel W., et al. (See Nicolaus, George W., assignor.)
- Lippincott, Walter M., Lynbrook, N. Y. Internal-combustion engine. No. 1,152,424; Sept. 7; Gaz. vol. 218; p. 15.
- Lippitt, Anna L., Grand Rapids, Mich. Union garment. No. 1,153,935; Sept. 21; Gaz. vol. 218; p. 628.
- Lippitt, Thomas P., et al. (See Devore, Daniel B., assignor.)
- Lippold, Carl T., Falls City, Nebr. Carbureter. No. 1,146,181; July 13; Gaz. vol. 216; p. 443.
- Lipps, Emory J., Fountain Hill borough, Pa. Machine for reeling skeins. No. 1,154,705; Sept. 28; Gaz. vol. 218; p. 921.
- Lipps, Louis P. (See Wing and Lipps.)
- Lipstadt, Sigmund. (See Buerger, Charles B., assignor.)
- Lipsch, David. (See Hamilton and Lipsch.)
- Lipsius, Samuel, New York, N. Y. Apparatus for producing raised printed matter. No. 1,144,303; June 22; Gaz. vol. 215; p. 1227.
- Lipsius, Samuel, New York, N. Y. Raised-printing process and product. No. 1,146,182; July 13; Gaz. vol. 216; p. 443.
- Lipsius, Samuel, New York, N. Y. Printing apparatus. No. 1,149,455; Aug. 10; Gaz. vol. 217; p. 448.
- Lipsius, Samuel, New York, N. Y. Raising printing. No. 1,158,065; Oct. 26; Gaz. vol. 219; p. 1076.
- Liquid Carbonic Company, The. (See Schmiedtje, Adolph H., assignor.)
- Liquid Carbonic Company, The. (See Smith, Horace M., assignor.)
- Liquid Fuel & Gas Company. (See Kofod, Aage, assignor.)
- Lisa, Savin. (See Nettle, John F., assignor.)
- Lischkoff, Alexander, et al. (See Hoffman, Robert O., assignor.)
- Liska, John, Ovid, Mich. Poultry-house. No. 1,137,411; Apr. 27; Gaz. vol. 213; p. 1304.
- Liss, Samuel A., assignor of one-half to B. Kingsdorf, Philadelphia, Pa. Vending-machine. No. 1,145,027; July 6; Gaz. vol. 216; p. 18.
- Liss, Selman, et al. (See Sherman, Moses, assignor.)
- Lissauer, Arthur, Berlin-Wilmersdorf, Germany. Nose-bath. No. 1,127,787; Feb. 9; Gaz. vol. 211; p. 434.
- List, John. (See Holley and List.)
- List, William E., Addiscombe, England. Appliance for cleaning toothed articles. No. 1,155,747; Oct. 5; Gaz. vol. 219; p. 116.
- Lister, Charles, Bangalore, Mysore State, India. Spinning cotton and other fibers or fibrous material. No. 1,126,042; Jan. 26; Gaz. vol. 210; p. 1115.
- Lister, John T., Cleveland, Ohio. Making tire-forming strips. No. 1,147,252; July 20; Gaz. vol. 216; p. 837.
- Lister, John T., Cleveland, Ohio. Tire-forming material. No. 1,147,253; July 20; Gaz. vol. 216; p. 838.
- Lister, John T., Cleveland, Ohio. Apparatus for forming rubberized-fabric tubes or strips. No. 1,147,254; July 20; Gaz. vol. 216; p. 838.
- Liston, Daniel A. (See Bickmeier and Liston.)
- Litchfield, Electus D., New Canaan, Conn. Toy block. No. 1,124,631; Jan. 12; Gaz. vol. 210; p. 546.
- Litchfield, Isaac W., Boston, Mass. Dental floss-holder. No. 1,152,825; Sept. 7; Gaz. vol. 218; p. 164.
- Litchfield, Isaac W., Newton, Mass. Bathing-cap. No. 1,156,238; Oct. 12; Gaz. vol. 219; p. 341.
- Lithotex Corporation. (See Holst, Louis J. R., assignor.)
- Lithotex Corporation. (See Holst and Chouinard, assignors.)
- Lithotex Corporation. (See Motley, Alfred H., Jr., assignor.)
- Lithotex Corporation. (See Motley and Chouinard, assignors.)
- Lithotex Corporation. (See Pilkington, Herbert M., assignor.)
- Little, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Cluster incandescent lamp. No. 1,132,365; Mar. 16; Gaz. vol. 212; p. 955.
- Litscher, Ben, Davenport, Iowa. Combined paper-weight and bill-file. No. 1,154,260; Sept. 21; Gaz. vol. 218; p. 739.
- Litt, David C., and J. C. Urber, Chicago, Ill. Tag device. No. 1,158,940; Nov. 2; Gaz. vol. 220; p. 186.
- Litt, Jay, Philadelphia, Pa. Muller attachment for telephones. No. 1,136,687; Apr. 20; Gaz. vol. 213; p. 1005.
- Littauer, Lucius M. (See Wels, John P., assignor.)
- Littauer, Lucius N. (See Dahl, Harry J., assignor.)
- Littauer, Lucius N. (See Wels, John P., assignor.)
- Little, Archibald S. B., Springfield, Ill., and R. M. Fensel, Madison, Wis. Street-indicator. No. 1,155,587; Oct. 5; Gaz. vol. 219; p. 90.
- Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp. No. 1,126,800; Feb. 2; Gaz. vol. 211; p. 48.
- Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrode for arc-lamps. No. 1,148,696; Aug. 3; Gaz. vol. 217; p. 77.
- Little, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Arc-lamp electrode. No. 1,159,511; Nov. 9; Gaz. vol. 220; p. 417.
- Little, George M., Pittsburgh, and B. J. Gudge, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Preparing arc-lamp electrodes. No. 1,138,674; May 11; Gaz. vol. 214; p. 371.
- Little, George M., Pittsburgh, and B. J. Gudge, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrode for arc-lamps. No. 1,158,516; Nov. 2; Gaz. vol. 220; p. 38.
- Little Giant Manufacturing Company. (See Wallace and Forsyth, assignors.) (Reissue.)
- Little, Homer E. R., New York, N. Y. Primary battery. No. 1,163,834; Dec. 14; Gaz. vol. 221; p. 432.
- Little, Irving W., Toledo, Ohio. Attachable two-way outlet for hot and cold water faucets. No. 1,146,804; July 20; Gaz. vol. 216; p. 680.
- Little, Irving W., Toledo, Ohio. Two-way outlet for hot and cold water faucets. No. 1,160,627; Nov. 16; Gaz. vol. 220; p. 866.
- Little, James A., Randsburg, Cal. Stamp-stem guide. No. 1,127,653; Feb. 9; Gaz. vol. 211; p. 384.
- Little, John. (See Woods, Gilbert, and Little.)
- Little, John T., Nashville, Tenn. Plug-cutting machine. No. 1,150,279; Aug. 17; Gaz. vol. 217; p. 807.
- Little, Lucius F., assignor to The Anglo-American Mill Co., Owensboro, Ky. Beater-blade for flour bolting and dressing machines. No. 1,150,213; Aug. 17; Gaz. vol. 217; p. 782.
- Little, Lucius F., assignor to The Anglo-American Mill Co., Owensboro, Ky. Ventilating flour-board for roller-mills. No. 1,161,486; Nov. 23; Gaz. vol. 220; p. 1217.
- Little, Lucius F., assignor to The Anglo-American Mill Co., Owensboro, Ky. Partition-ring for flour dressing and bolting machines. No. 1,161,487; Nov. 23; Gaz. vol. 220; p. 1217.
- Little, Lucius F., assignor to The Anglo-American Mill Co., Owensboro, Ky. Feed-regulator for mills. No. 1,161,488; Nov. 23; Gaz. vol. 220; p. 1217.
- Little, Orton C., assignor to Onward Manufacturing Company, Menasha, Wis. Balancing device for wheels. No. 1,138,592; May 4; Gaz. vol. 214; p. 303.
- Little, Sanford, Fairmount, Ind. Machine for holding animals. No. 1,136,429; Apr. 20; Gaz. vol. 213; p. 914.
- Littlefield, Arlon, assignor to New England Huit Company, Providence, R. I. Carrier for braiding machines. No. 1,124,480; Jan. 12; Gaz. vol. 210; p. 491.
- Littlefield, Arthur, administrator. (See Littlefield, Charles A.)
- Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-beating machine. No. 1,165,789; Dec. 28; Gaz. vol. 221; p. 1192.
- Littlefield, Charles A., deceased; A. Littlefield, administrator, assignor of one-half to E. H. Spedding, Lowell, Mass. Loom. No. 1,135,969; Apr. 13; Gaz. vol. 213; p. 710.
- Littlefield, Frank A., assignor to Nashua Machine Company, Nashua, N. H. Steam-trap. No. 1,141,249; June 1; Gaz. vol. 215; p. 56.
- Littlefield, Frank A., assignor to Nashua Machine Company, Nashua, N. H. Steam-trap. No. 1,148,459; July 27; Gaz. vol. 216; p. 1288.
- Littlefield, Frank A., assignor to Nashua Machine Company, Nashua, N. H. Steam-trap. No. 1,150,778; Aug. 17; Gaz. vol. 217; p. 978.

Alphabetical list of patentees—Continued.

- Littlefield, Frank A., assignor to Nashua Machine Company, Nashua, N. H. Steam-trap. No. 1,153,125; Sept. 7; Gaz. vol. 218; p. 268.
- Littlefield, Frank A., assignor to Nashua Machine Company, Nashua, N. H. Steam-trap and valve therefor. No. 1,156,032; Oct. 5; Gaz. vol. 219; p. 245.
- Littlefield, Frank A., assignor to Nashua Machine Company, Nashua, N. H. Steam-trap and fluid-coupling therefor. No. 1,164,537; Dec. 14; Gaz. vol. 221; p. 676.
- Littleford, John W., San Francisco, Cal., assignor to Minerals Separation, Limited, London, England. Ore concentration. No. 1,142,822; June 15; Gaz. vol. 215; p. 684.
- Live Leather Belt Co. (See Heimann, Leon, assignor.)
- Livelsberger, Albert M., Kalamazoo, Mich., assignor of one-half to A. Balr, Tiffin, Ohio. Tire-cushion. No. 1,166,065; Dec. 28; Gaz. vol. 221; p. 1287.
- Livright, Max, *et al.* (See Haynes, Clarence B., assignor.)
- Livermon, Carl R., Roxobel, N. C. Peanut-threshing machine. No. 1,158,248; Oct. 26; Gaz. vol. 219; p. 1139.
- Livermon, Carl R., Roxobel, N. C. Peanut-threshing machine. No. 1,164,370; Dec. 14; Gaz. vol. 221; p. 618.
- Livermore, Arthur C., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 1,126,043; Jan. 26; Gaz. vol. 210; p. 1115.
- Livermore & Knight Company. (See Foster, Ralph L., assignor.)
- Liversidge, Horace P., Bala, assignor to Pennsylvania Appliance Company, Philadelphia, Pa. Electric fusible cut-out. No. 1,124,230; Jan. 5; Gaz. vol. 210; p. 353.
- Livesay, Everett G., Princeton, W. Va. Mail-crane. No. 1,159,849; Nov. 9; Gaz. vol. 220; p. 540.
- Livesay, John M., Ronceverte, W. Va. Auto-spring. No. 1,131,530; Mar. 9; Gaz. vol. 212; p. 619.
- Livingood, Jesse F., New Virginia, Iowa. Vehicle. No. 1,158,137; Oct. 26; Gaz. vol. 219; p. 1102.
- Livingston, Andrew W., Oakland, Cal. Vehicle-tire. No. 1,129,807; Feb. 23; Gaz. vol. 211; p. 1220.
- Livingston, Andrew W., assignor to Standard Steel Wheel and Tire Armor Company, Oakland, Cal. Tire. No. 1,127,038; Feb. 2; Gaz. vol. 211; p. 133.
- Livingston, Andrew W., assignor to Standard Steel Wheel and Tire Armor Company, Oakland, Cal. Tire. No. 1,127,039; Feb. 2; Gaz. vol. 211; p. 133.
- Livingston, Andrew W., assignor to Standard Steel Wheel and Tire Armor Company, Oakland, Cal. Vehicle wheel-hub. No. 1,133,158; Mar. 23; Gaz. vol. 212; p. 1294.
- Livingston, Andrew W., assignor to Standard Steel Wheel and Tire Armor Company, Oakland, Cal. Radially corrugating sheet metal. No. 1,159,322; Nov. 2; Gaz. vol. 220; p. 318.
- Livingston, Archibald R., Canon City, Colo., assignor to The New Jersey Zinc Company, New York, N. Y. Concentration of minerals by flotation. No. 1,147,633; July 20; Gaz. vol. 216; p. 970.
- Livingston, Charles G. (See Pieser and Livingston.)
- Livingston, Charles G., *et al.* (See Redd, Charlie, assignor.)
- Livingston, D. McRa, New York, N. Y. Combination-hood for automobiles. No. 1,156,017; Oct. 5; Gaz. vol. 219; p. 240.
- Livingston, Fred N., Seattle, Wash. Crank-movement. No. 1,128,885; Feb. 16; Gaz. vol. 211; p. 865.
- Livingston, Fred N., Seattle, Wash. Pump. No. 1,123,980; Mar. 30; Gaz. vol. 212; p. 1618.
- Livingston, Fred N., Seattle, Wash. Automobile-starter. No. 1,154,520; Sept. 21; Gaz. vol. 218; p. 828.
- Livingston, Lloyd L. (See Poole, Jesse V., assignor.)
- Livingston, Robert D., Des Moines, Iowa. Switch mechanism for railways. No. 1,132,860; Mar. 23; Gaz. vol. 212; p. 1186.
- Livingston, Walter, Hastings, Nebr. Pulley-wheel. No. 1,135,595; Apr. 13; Gaz. vol. 213; p. 579.
- Livingston, Walter F. (See Palmer, Herman H., assignor.)
- Lizabiach, William D., Hot Springs, Ark. Rural-mail delivery. No. 1,127,040; Feb. 2; Gaz. vol. 211; p. 134.
- Lizert, Giovanni, assignor to The Florentine Flooring Company Limited, Newcastle-upon-Tyne, England. Composition for covering floors, walls, and other surfaces. No. 1,141,897; June 1; Gaz. vol. 215; p. 284.
- Ljeso, George, Grafton, W. Va. Portable fence and conveyor for the same. No. 1,161,704; Nov. 23; Gaz. vol. 220; p. 1291.
- Ljungström, Birger, Stockholm, assignor to Aktiebolaget Ljungströms Ångturbin, Liljeholmen, Sweden. Toothed gearing for steam-turbines. No. 1,130,748; Mar. 9; Gaz. vol. 212; p. 351.
- Ljungström, Birger, Stockholm, assignor to Aktiebolaget Ljungströms Ångturbin, Finspong, Sweden. Radial turbine. No. 1,146,183; July 13; Gaz. vol. 216; p. 443.
- Ljungström, Fredrik, assignor to Aktiebolaget Ljungströms Ångturbin, Finspong, Sweden. Electrical machine. No. 1,147,107; July 20; Gaz. vol. 216; p. 786.
- Ljungström, Fredrik, Stockholm, assignor to Aktiebolaget Ljungströms Ångturbin, Liljeholmen, Sweden. Lateral fluid-support for turbine-shafts. No. 1,129,409; Feb. 23; Gaz. vol. 211; p. 1086.
- Llambias, Gustave A. (See Chanute, Paul F., assignor.)
- Llewellyn, Ernest A., and J. R. Briggs, assignors to G. H. Bass & Company, Wilton, Me. Foot-gear. No. 1,139,197; May 11; Gaz. vol. 214; p. 558.
- Llopert, Ramon B., Cordoba, Argentina. Inalterable white pigment and making same. No. 1,139,427; May 11; Gaz. vol. 214; p. 638.
- Lloyd, Annie R., Keithsburg, Ill. Dish-pan. No. 1,154,521; Sept. 21; Gaz. vol. 218; p. 828.
- Lloyd, Cecil E., Pensacola, Fla. Valve-cap. No. 1,155,253; Sept. 28; Gaz. vol. 218; p. 1107.
- Lloyd, Edward W. (See Nikolai, Carl L., assignor.)
- Lloyd, Ernest E., Missoula, Mont. Wagon-seat. No. 1,132,948; Mar. 23; Gaz. vol. 212; p. 1219.
- Lloyd, Ernest F., Detroit, Mich. Mercury-loader. No. 1,132,593; Mar. 23; Gaz. vol. 212; p. 1087.
- Lloyd, Ernest F., Detroit, Mich. Apparatus for recovering sulfur and ammonia from gas. No. 1,132,594; Mar. 23; Gaz. vol. 212; p. 1087.
- Lloyd, Ernest M., New York, N. Y. Flexible coupling. No. 1,143,054; June 15; Gaz. vol. 215; p. 766.
- Lloyd, Frederic, Sheffield, England. Making hollow metal rods. No. 1,127,041; Feb. 2; Gaz. vol. 211; p. 134.
- Lloyd, Joseph N. (See Erwin, Lloyd, Mann, and Winchell.)
- Lloyd, Harry S. (See Bullock and Lloyd.)
- Lloyd, Henry, Lexington, Ky. Barrel-hoop. No. 1,130,413; Mar. 2; Gaz. vol. 212; p. 199.
- Lloyd Manufacturing Co., The. (See Lloyd, Marshall B., assignor.)
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Welding and brazing the seams of metal tubes. No. 1,123,330; Jan. 5; Gaz. vol. 210; p. 46.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Tube-welder. No. 1,124,755; Jan. 12; Gaz. vol. 210; p. 589.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Tube-welding machine. No. 1,124,756; Jan. 12; Gaz. vol. 210; p. 589.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Machine for manufacturing tubing. No. 1,124,757; Jan. 12; Gaz. vol. 210; p. 590.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Apparatus for welding the longitudinal seams of metal tubes. No. 1,124,758; Jan. 12; Gaz. vol. 210; p. 590.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Machine for forming and welding tubing. No. 1,124,759; Jan. 12; Gaz. vol. 210; p. 591.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Continuous welding mechanism. No. 1,124,760; Jan. 12; Gaz. vol. 210; p. 591.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Vise or draft mechanism. No. 1,124,761; Jan. 12; Gaz. vol. 210; p. 592.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Cut-off mechanism. No. 1,124,762; Jan. 12; Gaz. vol. 210; p. 592.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Tube-welding machine. No. 1,124,763; Jan. 12; Gaz. vol. 210; p. 592.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Tube-welding mechanism. No. 1,124,764; Jan. 12; Gaz. vol. 210; p. 593.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Tube-welding mechanism. No. 1,124,765; Jan. 12; Gaz. vol. 210; p. 593.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Tube-welding. No. 1,124,766; Jan. 12; Gaz. vol. 210; p. 594.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Reducing and surface-finishing metal tubes, rods, and the like. No. 1,129,835; Feb. 23; Gaz. vol. 211; p. 1230.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Manufacturing tubing. No. 1,141,066; May 25; Gaz. vol. 214; p. 1282.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Reinforced tubing. No. 1,141,067; May 25; Gaz. vol. 214; p. 1283.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Welding. No. 1,141,068; May 25; Gaz. vol. 214; p. 1283.

Alphabetical list of patentees—Continued.

- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to The Elyria Iron & Steel Company, Elyria, Ohio. Mechanism for cutting tubing and the like into lengths. No. 1,161,705; Nov. 23; Gaz. vol. 220; p. 1292.
- Lloyd, Marshall B., assignor to The Lloyd Manufacturing Co., Menominee, Mich. Collapsible go-cart. No. 1,124,151; Jan. 5; Gaz. vol. 210; p. 323.
- Lloyd, Marshall B., assignor to the Lloyd Manufacturing Co., Menominee, Mich. Collapsible go-cart. No. 1,124,152; Jan. 5; Gaz. vol. 210; p. 324.
- Lloyd, Marshall B., assignor to The Lloyd Manufacturing Company, Menominee, Mich. Collapsible baby-cart. No. 1,124,153; Jan. 5; Gaz. vol. 210; p. 324.
- Lloyd, Marshall B., assignor to The Lloyd Manufacturing Company, Menominee, Mich. Collapsible go-cart. No. 1,124,154; Jan. 5; Gaz. vol. 210; p. 325.
- Lloyd, Marshall B., assignor to The Lloyd Manufacturing Company, Menominee, Mich. Foldable go-cart. No. 1,124,155; Jan. 5; Gaz. vol. 210; p. 325.
- Lloyd, William H., assignor to Pyramid Manufacturing Company, Chicago, Ill. Water-closet. No. 1,155,498; Oct. 5; Gaz. vol. 219; p. 62.
- Lloyd, Willmer D., Beaver Falls, Pa. Carpet and rug clamp. No. 1,150,046; Aug. 17; Gaz. vol. 217; p. 722.
- Lo Rentz, Kate A., *et al.* (See Lo Rentz, Ralph E., assignor.)
- Lo Rentz, Ralph E., assignor of one-fourth to J. W. Thomas, one-fourth to M. M. Thomas, and one-half to K. A. Lo Rentz, Los Angeles, Cal. Moving-picture apparatus. No. 1,126,645; Jan. 26; Gaz. vol. 210; p. 1336.
- Loane, Edwin D., Jr., Baltimore, Md. Injector. No. 1,162,789; Dec. 7; Gaz. vol. 221; p. 20.
- Lobato, John C., Lowell, Mass. Motor-vehicle. No. 1,136,605; Apr. 20; Gaz. vol. 213; p. 976.
- Lobato, John C., Lowell, Mass. Mine-raising apparatus. No. 1,148,103; July 27; Gaz. vol. 216; p. 1164.
- Lobato, John C., Lowell, Mass. Toy. No. 1,151,957; Aug. 31; Gaz. vol. 217; p. 1486.
- Lobato, Luiz C., Lowell, Mass. Loom. No. 1,154,644; Sept. 28; Gaz. vol. 218; p. 901.
- Lobdell, Britton D. (See Vogel, Lobdell, and Ball.)
- Lobdell, Edward J., Onaway, Mich. Steering-wheel. No. 1,146,184; July 13; Gaz. vol. 216; p. 443.
- Lobdell, Edward J., and O. K. Snyder, Onaway, Mich.; said Snyder assignor to said Lobdell. Tilting steering-wheel. No. 1,147,030; July 20; Gaz. vol. 216; p. 760.
- Lobdell, Frank S., Naugatuck, Conn. Carbureter. No. 1,152,031; Aug. 31; Gaz. vol. 217; p. 1512.
- Lobel, Arthur. (See Helwitz and Lobel.)
- Lobel, Leon, and N. Frank, New York, N. Y., assignors to Belfran Company, Inc. Arch-support. No. 1,129,039; Feb. 16; Gaz. vol. 211; p. 921.
- Lobenat, John, Collinsville, Ill. Projectile. No. 1,129,696; Feb. 23; Gaz. vol. 211; p. 1182.
- Lober, Ferdinand A., deceased; C. P. Evans, administrator, assignor, by mesne assignments, to C. P. Evans, San Diego, Cal. Composition for pipes and railways. No. 1,124,045; Jan. 5; Gaz. vol. 210; p. 287.
- Lobley, Max E., assignor to Brooklyn Cooperage Co., Brooklyn, N. Y. Machine for making metallic hoops for barrels. No. 1,143,211; June 15; Gaz. vol. 215; p. 822.
- Lobnitz, Fred, Crookston, Scotland. Rock-cutting apparatus. No. 1,149,846; Aug. 10; Gaz. vol. 217; p. 590.
- Lobodzinski, Zdzislaw. (See Tomassi and Lobodzinski.)
- Locarni, Vittorio, Cornigliano Ligure, Italy. Double gear for controlling electrically and by hand devices placed at a distance. No. 1,135,596; Apr. 13; Gaz. vol. 213; p. 579.
- Lochman, Emil R., St. Louis, Mo. Carving-machine. No. 1,138,126; May 4; Gaz. vol. 214; p. 144.
- Lock, John, Silver City, N. Mex. Spring-repair means. No. 1,137,155; Apr. 27; Gaz. vol. 213; p. 1210.
- Lock, John R., Fellows, assignor to A. Wark, Bakersfield, Cal. Oil-well capper. No. 1,130,181; Mar. 2; Gaz. vol. 212; p. 118.
- Lock Joint Pipe Company. (See Hirsh, Meriwether, and Mitchell, assignors.)
- Lock-Tite Envelope Corporation, The. (See Jacobs, William H., assignor.)
- Lockard, Alan T., Suffern, N. Y., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,158,517; Nov. 2; Gaz. vol. 220; p. 38.
- Lockard, William A., assignor of one-half to A. E. Stange, Philadelphia, Pa. Railway-tie and fastener. No. 1,137,990; May 4; Gaz. vol. 214; p. 93.
- Lockart, Howard L., Philadelphia, Pa. Apparatus for preventing railway accidents. No. 1,130,414; Mar. 2; Gaz. vol. 212; p. 199.
- Locke, Albert R., Chicago, Ill. Perforating separated obstructions in hollow walls. No. 1,154,035; Sept. 21; Gaz. vol. 218; p. 662.
- Locke, Benjamin T., Starbuck, Wash. Harrow. No. 1,128,159; Feb. 9; Gaz. vol. 211; p. 565.
- Locke, Charles J. (See Miller and Locke.)
- Locke, Frank C., Marshall, Mich., assignor to W. C. and S. J. Sherer, Chicago, Ill. Display-counter. No. 1,159,336; Nov. 2; Gaz. vol. 220; p. 322.
- Locke, Fred M., Victor, N. Y. Manufacture of high-potential porcelain and glass insulators. No. 1,127,042; Feb. 2; Gaz. vol. 211; p. 134.
- Locke, Fred M., Victor, N. Y. Electric-arc extinguisher. No. 1,127,043; Feb. 2; Gaz. vol. 211; p. 134.
- Locke, Fred M., Victor, N. Y. Insulator. No. 1,127,044; Feb. 2; Gaz. vol. 211; p. 135.
- Locke, Fred M., Victor, N. Y. Manufacture of insulators for high-potential electric conductors. No. 1,156,163; Oct. 12; Gaz. vol. 219; p. 317.
- Locke Insulator Manufacturing Company, The. (See Bennett, Cornelius V., assignor.)
- Locke, John D. (See Earle, Edward, assignor.)
- Locke, John G., Passaic, N. J. Window-locking device. No. 1,137,502; Apr. 27; Gaz. vol. 213; p. 1334.
- Locke, Robert E., Lone Rock, Iowa. Seed-corn case. No. 1,157,790; Oct. 26; Gaz. vol. 219; p. 978.
- Locke Steel Belt Company. (See Locke, Sylvanus D., assignor.)
- Locke Steel Chain Company. (See Osswald, Herman, assignor.)
- Locke, Sylvanus D., assignor to Locke Steel Belt Company, Bridgeport, Conn. Correcting the pitch of drive-chains. No. 1,139,044; May 11; Gaz. vol. 214; p. 505.
- Locke, William P., assignor to W. G. Clark, Chicago, Ill. Chain system of lock control. No. 1,134,625; Apr. 6; Gaz. vol. 213; p. 197.
- Locker, S. L., *et al.* (See Murphy, Oscar B., assignor.)
- Lockett, Andrew M. (See Von Phul, Black, and Lockett.)
- Lockett, John E., Brownsville, Tenn. Wire-stretcher. No. 1,131,937; Mar. 16; Gaz. vol. 212; p. 799.
- Lockhart, John, Tarrytown, N. Y. Window-shutter. No. 1,149,273; Aug. 10; Gaz. vol. 217; p. 382.
- Lockhart, Joseph C., Attica, Kans. Liquid-fuel burner. No. 1,152,190; Aug. 31; Gaz. vol. 217; p. 1566.
- Lockhart, Martin L., Bridgeton, N. C. Calipers. No. 1,152,191; Aug. 31; Gaz. vol. 217; p. 1567.
- Lockhart Suspender Company. (See Lockhart, William L., assignor.)
- Lockhart, William L., Philadelphia, Pa., assignor to Lockhart Suspender Company. Garter-package. No. 1,145,904; July 13; Gaz. vol. 216; p. 344.
- Lockridge, Roy. (See Towers, William, assignor.)
- Lockton, Frank B., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 1,165,521; Dec. 28; Gaz. vol. 221; p. 1098.
- Lockwood, Burns D. (See Lindström and Lockwood.)
- Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Underframe for railway-cars. No. 1,157,707; Oct. 26; Gaz. vol. 219; p. 951.
- Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Center-bearing for cars. No. 1,161,941; Nov. 30; Gaz. vol. 220; p. 1422.
- Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Side bearing for cars. No. 1,164,202; Dec. 14; Gaz. vol. 221; p. 557.
- Lockwood, Charles F., assignor of one-third to E. B. Murphy and one-third to J. M. Thompson, San Francisco, Cal. Pile-protecting device. No. 1,134,881; Apr. 6; Gaz. vol. 213; p. 286.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Divided cage for roller-bearings. No. 1,137,010; Apr. 27; Gaz. vol. 213; p. 1157.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing with thrust-collar. No. 1,144,484; June 29; Gaz. vol. 215; p. 1317.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing. No. 1,144,485; June 29; Gaz. vol. 215; p. 1317.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Making spirally-wound rolls. No. 1,152,110; Aug. 31; Gaz. vol. 217; p. 1540.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing journal-box. No. 1,158,817; Nov. 2; Gaz. vol. 220; p. 144.
- Lockwood, Edward M., assignor to C. R. Carver Company, Philadelphia, Pa. Counter block for printing-presses. No. 1,127,045; Feb. 2; Gaz. vol. 211; p. 135.
- Lockwood, Edward M., assignor to C. R. Carver Company, Philadelphia, Pa. Collapsible mandrel. No. 1,138,675; May 11; Gaz. vol. 214; p. 371.
- Lockwood, Edwin F., Bellevue, Ky., assignor to Lockwood Manufacturing Company, Cincinnati, Ohio. Multiple-plan construction. No. 1,149,927; Aug. 10; Gaz. vol. 217; p. 620.
- Lockwood, Edwin F., Bellevue, Ky., assignor to Lockwood Manufacturing Company, Cincinnati, Ohio. Multiple-plan construction. No. 1,149,928; Aug. 10; Gaz. vol. 217; p. 620.
- Lockwood, Elmer, Byron, Ill. Two-speed lawn-mower. No. 1,160,297; Nov. 16; Gaz. vol. 220; p. 749.
- Lockwood, Lewis J., Santa Rosa, Cal. Street-sweeping machine. No. 1,145,324; July 6; Gaz. vol. 216; p. 121.
- Lockwood, Lynneaus I., St. Louis, Mo. Curtain-stretcher. No. 1,142,823; June 15; Gaz. vol. 215; p. 684.
- Lockwood Manufacturing Company. (See Lockwood, Edwin F., assignor.)
- Lockwood, Marquis H., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,143,212; June 15; Gaz. vol. 215; p. 823.

Alphabetical list of patentees—Continued.

- Lockwood, Marquis H., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,158,818; Nov. 2; Gaz. vol. 220; p. 144.
- Lockwood, Marquis H., New York, N. Y., assignor to Underwood Typewriter Company. Type-writing machine. No. 1,158,819; Nov. 2; Gaz. vol. 220; p. 145.
- Lockwood, Vernie, Motley, Minn. Stay and fastener for storm-sash. No. 1,139,781; May 18; Gaz. vol. 214; p. 798.
- Lockyer, Norman J., Darlington, England. Steam-valve. No. 1,126,537; Jan. 26; Gaz. vol. 210; p. 1297.
- "Locomobile" Company of America, The. (See Riker, Andrew L., assignor.)
- Locomobile Company of America, The. (See Rosner, Adolph, assignor.)
- Locomotive Recording Dynamometer Company. (See Park and Phillips, assignors.)
- Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
- Locomotive Stocker Company, The. (See Street, Clement F., assignor.)
- Locomotive Superheater Company. (See Casey, William F. J., assignor.)
- Locomotive Superheater Company. (See Goodwin, Ernest G., assignor.)
- Locomotive Superheater Company. (See Henderson and Cantley, assignors.)
- Locomotive Superheater Company. (See Heuser, Franz, assignor.)
- Locomotive Superheater Company. (See Kindervater, Julius, assignor.)
- Locomotive Superheater Company. (See Klinck, Oswald, assignor.)
- Locomotive Superheater Company. (See McKee, Neal T., assignor.)
- Locomotive Superheater Company. (See Rait, George B., assignor.)
- Locomotive Superheater Company. (See Riley, Willis L., assignor.)
- Locomotive Superheater Company. (See True, Charles H., assignor.)
- Locomotive Superheater Company. (See True and McKee, assignors.)
- Loder, Frank, La Fayette, Ind. Resilient pneumatic tire. No. 1,153,396; Sept. 14; Gaz. vol. 218; p. 404.
- Loder, Frank, La Fayette, Ind. Hobby-horse automobile. No. 1,159,594; Nov. 9; Gaz. vol. 220; p. 446.
- Lodge, Frank T., et al. (See Kendrick, Karl A., assignor.)
- Lodge & Shipley Machine Tool Company, The. (See Schellenbach, Lodge, and Chard, assignors.)
- Lodge, William. (See Schellenbach, Lodge, and Chard.)
- Lodvee, Knute L., Chicago, Ill. Window. No. 1,137,991; May 4; Gaz. vol. 214; p. 94.
- Loe Multiplex Voting Machine Company. (See Loe, Syver, assignor.)
- Loe, Syver, assignor to Loe Multiplex Voting Machine Company, Minneapolis, Minn. Multiple voting-machine. No. 1,158,518; Nov. 2; Gaz. vol. 220; p. 38.
- Loeb, Rudolf. (See Bourquin and Loeb.)
- Loeb, Rudolf, Jenkintown, Pa. Embroidered edging. No. 1,162,498; Nov. 30; Gaz. vol. 220; p. 1614.
- Loebe, Herman E., Jersey City, N. J. Gas-heater. No. 1,147,521; July 20; Gaz. vol. 216; p. 931.
- Loeber, Edgar O., Cleveland, Ohio. Safety-lid for receptacles. No. 1,123,331; Jan. 5; Gaz. vol. 210; p. 46.
- Loeber, Edgar O., Cleveland, Ohio. Telephone-guard. No. 1,140,048; May 18; Gaz. vol. 214; p. 893.
- Loechel, Maxwell R., Philadelphia, Pa. Puttyless skylight. No. 1,127,905; Feb. 9; Gaz. vol. 211; p. 477.
- Loedige, Frederick, Chicago, Ill. Journal-lubricator. No. 1,126,044; Jan. 26; Gaz. vol. 210; p. 1116.
- Loedige, Frederick, assignor to Journal Lubricator Company, Chicago, Ill. Journal-lubricator. No. 1,145,028; July 6; Gaz. vol. 216; p. 19.
- Loeffler, Charles, Philadelphia, Pa. Electric fire-engine system. No. 1,160,422; Nov. 16; Gaz. vol. 220; p. 792.
- Loeffler, Charles W., Solon township, Leelanau county, Mich. Tractor. No. 1,131,394; Mar. 9; Gaz. vol. 212; p. 572.
- Loeffler, Henry, Newark, N. J., assignor to Hurley Machine Company, Chicago, Ill. Safety attachment for clothes-wringers. No. 1,139,546; May 18; Gaz. vol. 214; p. 714.
- Loeffler, John, Evansville, Ind. Suspender-button and drawers-hook. No. 1,132,595; Mar. 23; Gaz. vol. 212; p. 1087.
- Loeffler, Morris H., Grand Junction, Colo. Waistband. No. 1,159,512; Nov. 9; Gaz. vol. 220; p. 417.
- Loehler, Gustav G., Washington, D. C. Bottle-capping machine. No. 1,134,626; Apr. 6; Gaz. vol. 213; p. 198.
- Loehr, Miles E., Claypool, Ind. Acetylene-generator. No. 1,156,788; Oct. 12; Gaz. vol. 219; p. 534.
- Loening, Grover C., New York, N. Y. Landing-gear for aeroplanes. No. 1,162,177; Nov. 30; Gaz. vol. 220; p. 1504.
- Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Pipe-hanger. No. 1,134,395; Apr. 6; Gaz. vol. 213; p. 113.
- Loepsinger, Albert J., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Fusible device. No. 1,147,031; July 20; Gaz. vol. 216; p. 760.
- Loesch, William, assignor of forty one-hundredths to G. B. Storer, Chicago, Ill. Fuel-briquet composition for iron-ore reduction. No. 1,131,531; Mar. 9; Gaz. vol. 212; p. 620.
- Loetscher, Emil C., Dubuque, Iowa. Refrigerating apparatus. No. 1,151,202; Aug. 24; Gaz. vol. 217; p. 1182.
- Loew, Oscar A., assignor to F. H. Teagle, Cleveland, Ohio. Radiator-cap. No. 1,162,703; Nov. 30; Gaz. vol. 220; p. 1680.
- Loewe, Bernard, Paris, France. Making artificial silk. No. 1,151,487; Aug. 24; Gaz. vol. 217; p. 1276.
- Loewenbach, Erwin B., and C. M. Hunter, assignors to E. B. L. Shoe Mfg. Co., Milwaukee, Wis. Shoe. No. 1,130,305; Mar. 2; Gaz. vol. 212; p. 161.
- Loewenbach, Hugo. (See Downey, Richard F., assignor.)
- Loewenbach, Oscar, Milwaukee, Wis. Manifold sheet and book. No. 1,162,376; Nov. 30; Gaz. vol. 220; p. 1572.
- Loewenberg, William B., and C. Lyons, Wabash, Ind.; said Lyons assignor to said Loewenberg. Life-saving suit. No. 1,151,369; Aug. 24; Gaz. vol. 217; p. 1236.
- Loewenguth, Julius C., assignor to Hickey, Freeman Co., Rochester, N. Y. Packing or shipping case. No. 1,126,237; Jan. 26; Gaz. vol. 210; p. 1189.
- Loewenstein, Karl P. zu, Neckargemünd, Germany. Process for removing slags from furnaces and means for carrying out the same. No. 1,128,255; Feb. 9; Gaz. vol. 211; p. 597.
- Loewenstein, Karl zu P., Neckargemünd, Germany. Heat-transmitting elements of steam-generators. No. 1,162,626; Nov. 30; Gaz. vol. 220; p. 1654.
- Loewenstein, Kasper. (See De Leeuw, Philip J., assignor.)
- Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company. Means for controlling the air-supply to water-gas generators. No. 1,134,754; Apr. 6; Gaz. vol. 213; p. 245.
- Loewenthal, R., et al. (See Wheeler, Orrin A., assignor.)
- Loewenthal, Edward D., et al. (See Wheeler, Orrin A., assignor.)
- Lowenthal, Marcus, New York, N. Y. Picture-frame. No. 1,132,366; Mar. 16; Gaz. vol. 212; p. 956.
- Löffler, Adolf, Union Course, N. Y. Mechanical railway-switch-operating means. No. 1,134,627; Apr. 6; Gaz. vol. 213; p. 198.
- Löffler, Charles L., Denver, Colo. Attachment for syringes. No. 1,147,179; July 20; Gaz. vol. 216; p. 811.
- Lofgren, John. (See Ravlin and Lofgren.)
- Lofland, Alfred H., and C. H. Davidson, deceased, Milton, Del.; M. E. Davidson, administratrix. Thill-support. No. 1,142,900; June 15; Gaz. vol. 215; p. 712.
- Loflin, Robert L. (See Williams, Leonidas B., assignor.)
- Löfquist, Hjalmar, Stockholm, Sweden. Drying or roasting apparatus, &c. No. 1,151,203; Aug. 24; Gaz. vol. 217; p. 1183.
- Löfquist, Hjalmer, Stockholm, Sweden. Device for drying washed goods. No. 1,155,668; Oct. 5; Gaz. vol. 219; p. 119.
- Loft, Henry L., Cherokee, Iowa. Filing-envelope. No. 1,149,657; Aug. 10; Gaz. vol. 217; p. 523.
- Loflin, Alonzo K., and C. S. Murphy, assignors of one-third to Lane-Harris & Company, Altavista, Va. Reinforced extension-drawer slide. No. 1,135,704; Apr. 13; Gaz. vol. 213; p. 618.
- Loflin, Benjamin F. (See Hawkins and Loflin.)
- Lofton, Herbert M., Chattanooga, Tenn. Meter-box. No. 1,133,386; Mar. 30; Gaz. vol. 212; p. 1410.
- Loftus, Clarence L., Stapleton, Neb. Fence-tightening device. No. 1,138,127; May 4; Gaz. vol. 214; p. 144.
- Loftus, Martin J., Independence, Kan. Automatic valve. No. 1,152,192; Aug. 31; Gaz. vol. 217; p. 1567.
- Logan, Amanda R., and M. A. L. Barrella, Chelmsford, Mass. Red-pan cushion. No. 1,163,835; Dec. 14; Gaz. vol. 221; p. 432.
- Logan, Frank G. (See Daniels, Thomas M., assignor.)
- Logan, Humphrey T., London, England, assignor to Firm of E. P. Lehmann, Brandenburg-on-the-Havel, Germany. Toy. No. 1,150,440; Aug. 17; Gaz. vol. 217; p. 860.
- Logan, James, Carthage, Mo. Box-cap hanger for gang-frames of stone-sawing machines. No. 1,151,698; Aug. 31; Gaz. vol. 217; p. 1395.
- Logan, James, Worcester, assignor to United States Envelope Company, Springfield, Mass. Envelop. No. 1,142,339; June 8; Gaz. vol. 215; p. 477.
- Logan, John A., et al. (See Bourke, Martin, assignor.)
- Logan, Lloyd, Boston, Mass. Electric measuring instrument. No. 1,142,593; June 8; Gaz. vol. 215; p. 566.
- Logan, Margaret, administratrix. (See Logan, Martin.)
- Logan, Martin, deceased, New York, N. Y.; M. Logan, administratrix. Non-refillable bottle. No. 1,145,325; July 6; Gaz. vol. 216; p. 121.
- Logan, Maurice S., Brooklyn, N. Y. Bicycle. No. 1,139,045; May 11; Gaz. vol. 214; p. 505.
- Logan, Oscar A. (See Thompson, William F., assignor.)
- Logan, Philip A., St. John, New Brunswick, Canada. Nut-lock. No. 1,127,654; Feb. 9; Gaz. vol. 211; p. 384.
- Logan, Robert J., St. John, New Brunswick, Canada. Chemical fire-extinguisher. No. 1,132,596; Mar. 23; Gaz. vol. 212; p. 1088.
- Logan, Srivester, Franklin, Pa., assignor of one-half to L. E. Simpson and one-half to O. Simpson, Cincinnati, Ohio. Internal-combustion motor. No. 1,135,942; Apr. 13; Gaz. vol. 213; p. 699.

- Logan, Sylvester, Franklin, Pa., assignor of one-half to L. E. Simpson and one-half to O. Simpson, Cincinnati, Ohio. Internal-combustion motor. No. 1,135,943; Apr. 13; Gaz. vol. 213; p. 699.
- Logan, William L., Clarendon, Tex. Churn. No. 1,128,336; Feb. 16; Gaz. vol. 211; p. 676.
- Loggie, James A. (See Bell, John W., assignor.)
- Lograsso, Vincenzo, New York, N. Y. Composition of matter. No. 1,160,731; Nov. 16; Gaz. vol. 220; p. 904.
- Logsdon, Frederick G., Davenport, Wash. Grain-bag. No. 1,147,876; July 27; Gaz. vol. 216; p. 1081.
- Lognin, Alexander J., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Speed-limiting device. No. 1,158,820; Nov. 2; Gaz. vol. 220; p. 145.
- Lognin, Alexander J., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Electrical protective device. No. 1,161,320; Nov. 23; Gaz. vol. 220; p. 1158.
- Logwood, Charles V., Palo Alto, Cal., assignor to Federal Telegraph Company. Wireless communication. No. 1,161,142; Nov. 23; Gaz. vol. 220; p. 1093.
- Lohman, Ralph W., Oakland, Cal. Method and apparatus for converting alternating or pulsating electric currents into unidirectional currents. No. 1,143,213; June 15; Gaz. vol. 215; p. 823.
- Lohmann Company, The. (See Maddy and Schubert, assignors.)
- Lohmiller, Harry, A. Claus, and A. Stamler, Rahway, N. J. Device for raising vehicles. No. 1,161,706; Nov. 23; Gaz. vol. 220; p. 1292.
- Lohr, James M., and H. W. Gillett, Ithaca, N. Y. Electric furnace. No. 1,162,178; Nov. 30; Gaz. vol. 220; p. 1504.
- Lohr, James M., and H. W. Gillett, Ithaca, N. Y. Electric furnace. No. 1,162,179; Nov. 30; Gaz. vol. 220; p. 1505.
- Loichot, Paul F. (See Warstler and Loichot.)
- Lok, Karl H. (See Lok, Walter C. and K. H.)
- Lok, Walter C. and K. H., Toledo, Ohio. Mail-bag catcher. No. 1,158,697; Nov. 2; Gaz. vol. 220; p. 100.
- Lomas, Joseph E., Smuggler, Colo. Egg-stamp. No. 1,150,280; Aug. 17; Gaz. vol. 217; p. 807.
- Lomas, Joseph E., Smuggler, Colo. Life-preserver. No. 1,162,087; Nov. 30; Gaz. vol. 220; p. 1472.
- Lomason, Harry A., Detroit, Mich. Coach-hinge. No. 1,129,877; Mar. 2; Gaz. vol. 212; p. 15.
- Lombard Governor Company, The. (See Warren, Henry E., assignor.)
- Lombard, Harry B., Lynn, Mass. Toupee. No. 1,144,658; June 29; Gaz. vol. 215; p. 1374.
- Lombard, Levi W. (See Hersee and Lombard.)
- Lombard, Levi W., Waltham, assignor to Federal Engineering Company, Newton, Mass. Combined shock-absorber and air-pump for automobiles. No. 1,151,805; Aug. 31; Gaz. vol. 217; p. 1434.
- Lombard, Nathaniel, assignor to Holyoke Machine Company, Worcester, Mass. Friction-clutch. No. 1,153,635; Sept. 14; Gaz. vol. 218; p. 489.
- Lombard, Nathaniel, Worcester, and W. E. Lombard, Arlington, Mass. Railway-signal-recording device. No. 1,158,821; Nov. 2; Gaz. vol. 220; p. 145.
- Lombard, Walter E. (See Lombard, Nathaniel and W. E.)
- Lombardero, José, San Francisco, Cal. Smoker's kit. No. 1,135,457; Apr. 13; Gaz. vol. 213; p. 530.
- Lombardi, Francesco, New York, N. Y. Folding receptacle. No. 1,127,046; Feb. 2; Gaz. vol. 211; p. 135.
- Lomas, Frank E. (See Layman Hebron B., assignor.)
- Lomas, Frank E., New York, N. Y. Internal-combustion engine. No. 1,163,934; Dec. 14; Gaz. vol. 221; p. 466.
- Loncar, Josef, Vienna, Austria-Hungary. Gear. No. 1,144,554; June 29; Gaz. vol. 215; p. 1340.
- London Auto Supply Co. (See McAvoy, Frank J., assignor.)
- London Grave Vault Company, The. (See Sherwood, Charles L., assignor.)
- London, Julius, assignor to L. V. London, New York, N. Y. Crystoscope. No. 1,150,214; Aug. 17; Gaz. vol. 217; p. 783.
- London, Louisa V. (See London, Julius, assignor.)
- London, William J. A., assignor to The Terry Steam Turbine Company, Hartford, Conn. Vertical bearing. No. 1,157,644; Oct. 19; Gaz. vol. 219; p. 862.
- London, William J. A., G. H. Plaine, and R. C. Allen, assignors to The Terry Steam Turbine Company, Hartford, Conn. Turbine-blading. No. 1,149,658; Aug. 10; Gaz. vol. 217; p. 524.
- Long, Albert B. (See Sheaffer, James E., assignor.)
- Long & Allstarfer Company, The. (See Macheth and Stening, assignors.)
- Long, Arthur D., and L. D. Harper, Fairfield, Iowa. Acetylene-generator. No. 1,159,968; Nov. 9; Gaz. vol. 220; p. 582.
- Long, August. (See Carter, Jonas, assignor.)
- Long, Charles F., and A. B. Hersman, Los Angeles, Cal. Concrete-form construction. No. 1,134,051; Mar. 30; Gaz. vol. 212; p. 1643.
- Long, Chester D., Winchester, Ark. Convertible draft appliance. No. 1,133,981; Mar. 30; Gaz. vol. 212; p. 1619.
- Long, Clarence F., Mason City, Iowa. Fish-bait bucket. No. 1,159,399; Nov. 9; Gaz. vol. 220; p. 377.
- Long, Clarence F., Mason City, Iowa. Fish-bait bucket. No. 1,163,836; Dec. 14; Gaz. vol. 221; p. 432.
- Long, Clyde M., assignor of one-half to J. M. Losgar, Toledo, Ohio. Prepared mortar. No. 1,162,790; Dec. 7; Gaz. vol. 221; p. 21.
- Long, Don E., Peabody, Kans. Double-row cultivator. No. 1,132,480; Mar. 16; Gaz. vol. 212; p. 997.
- Long, Eli M., Geneva, N. Y. Differential gearing. No. 1,161,057; Nov. 23; Gaz. vol. 220; p. 1063.
- Long, Elmer C., assignor to The Long Silent Motor Company, Hannibal, Mo. Internal-combustion motor. No. 1,146,630; July 13; Gaz. vol. 216; p. 601.
- Long, Elmer C., assignor to Long Silent Motor Company, Hannibal, Mo. Internal-combustion motor. No. 1,165,522; Dec. 28; Gaz. vol. 221; p. 1098.
- Long, Frank E., Detroit, Mich. Journal-bearing. No. 1,124,481; Jan. 12; Gaz. vol. 210; p. 492.
- Long, Franklin A., Eureka, Mont. Stump-boring machine. No. 1,127,047; Feb. 2; Gaz. vol. 211; p. 135.
- Long, Fred. (See Hampton, Willard F., assignor.)
- Long, George A., Scranton, Pa. Rail-joint. No. 1,132,367; Mar. 16; Gaz. vol. 212; p. 956.
- Long, George A., assignor to The Gray Telephone Pay Station Company, Hartford, Conn. Hinge mechanism. No. 1,138,128; May 4; Gaz. vol. 214; p. 145.
- Long, George A., assignor to The Gray Telephone Pay Station Company, Hartford, Conn. Making sheet-metal boxes. No. 1,161,396; Nov. 23; Gaz. vol. 220; p. 1186.
- Long, George W., New York, N. Y., and W. K. Simpson, East Orange, N. J., assignors of one-third to H. H. Seabrook, New York, N. Y. Steam-trap. No. 1,123,770; Jan. 5; Gaz. vol. 210; p. 196.
- Long, Harry, Kokomo, Ind. Mold for glass spark-plugs and cores. No. 1,153,126; Sept. 7; Gaz. vol. 218; p. 268.
- Long, John E., Ewing, Nebr. Dirt-loading machine. No. 1,145,379; July 6; Gaz. vol. 216; p. 140.
- Long, John M., Manchester, England. Apparatus for making ice-cream and analogous substances. No. 1,163,426; Dec. 7; Gaz. vol. 221; p. 242.
- Long, John R., Akron, Ohio. Bench-vice. No. 1,136,473; Apr. 20; Gaz. vol. 213; p. 930.
- Long, John R., Akron, Ohio. Means for reaming and threading pipes. No. 1,160,625; Nov. 16; Gaz. vol. 220; p. 865.
- Long, L. Guy. (See More and Long.)
- Long, Laurence W. (See Flick and Long.)
- Long Mailing Machine Company. (See Albrecht, Guido J., assignor.)
- Long Mailing Machine Company. (See Albrecht and Long, assignors.)
- Long Mailing Machine Company. (See Long, Sidney L., assignor.)
- Long Manufacturing Company. (See Lyon, Guy A., assignor.)
- Long, Mary A., Fargo, N. D. Washboiler clothes-drainer. No. 1,139,782; May 18; Gaz. vol. 214; p. 798.
- Long, Roscoe C., Buffalo, N. Y., assignor of one-half to J. C. Brady, Wheeling, W. Va. Salt-shaker. No. 1,161,489; Nov. 23; Gaz. vol. 220; p. 1218.
- Long, Russell L., Morgantown, W. Va. Tooth-brush. No. 1,153,801; Sept. 14; Gaz. vol. 218; p. 546.
- Long, Russell L., Morgantown, W. Va. Hat-pin guard. No. 1,156,300; Oct. 12; Gaz. vol. 219; p. 362.
- Long, Sidney L. (See Albrecht and Long.)
- Long, Sidney L., assignor to Long Mailing Machine Company, Minneapolis, Minn. Packer for envelopes, cards, or the like. No. 1,129,107; Feb. 23; Gaz. vol. 211; p. 980.
- Long Silent Motor Company, The. (See Long, Elmer C., assignor.)
- Long, William J. R., Apalachicola, Fla. Poultry-feeder. No. 1,147,180; July 20; Gaz. vol. 216; p. 811.
- Longaker, Albert A., assignor to Chambersburg Engineering Company, Chambersburg, Pa. Wheel-press. No. 1,137,643; Apr. 27; Gaz. vol. 213; p. 1381.
- Longard, Clarence C., Halifax, Nova Scotia, Canada. Internal-combustion engine. No. 1,127,265; Feb. 2; Gaz. vol. 211; p. 211.
- Longden, Thomas J., Chelsea, Mass. Brake mechanism for loom let-offs. No. 1,153,636; Sept. 14; Gaz. vol. 218; p. 489.
- Longenecker, Charles, Springfield, Mass., assignor to Outley Furnace & Foundry Company. Apparatus for feeding finely-divided fuel. No. 1,145,905; July 13; Gaz. vol. 216; p. 344.
- Longenecker, Charles I. (See Johnston and Longenecker.)
- Longenecker, Rutherford B., Dayton, Ohio. Resilient hub. No. 1,152,956; Sept. 7; Gaz. vol. 218; p. 212.
- Longeron, Jennie M., Cantrall, Ill. Envelop. No. 1,165,189; Dec. 21; Gaz. vol. 221; p. 945.
- Longman, Charles A., and J. C. Minshall, Logan, Iowa. Child's and toy wagon. No. 1,131,254; Mar. 9; Gaz. vol. 212; p. 524.
- Longmore, William J., Bellevue, Pa., assignor to Westinghouse Electric and Manufacturing Company. Manufacturing insulating material. No. 1,138,676; May 11; Gaz. vol. 214; p. 372.
- Longworth, Jacob B., et al. (See Riggins, Albert B., assignor.)
- Longyear, Charles M., White Plains, N. Y. Poultry-roost. No. 1,129,697; Feb. 23; Gaz. vol. 211; p. 1183.

Alphabetical list of patentees—Continued.

- Lonsway, John J., Fostoria, Ohio. Portable rail-drill. No. 1,145,906; July 13; Gaz. vol. 216; p. 345.
- Lontz, John M. (See Brown, Levi, assignor.)
- Look, Fannie B., et al., trustees. (See Schwartz, Herman M., assignor.)
- Loomer, Henry M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon the heels of boots and shoes. No. 1,160,989; Nov. 16; Gaz. vol. 220; p. 994.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Detachable light for vehicle-curtains. No. 1,125,352; Jan. 19; Gaz. vol. 210; p. 838.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,131,395; Mar. 9; Gaz. vol. 212; p. 572.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Starting mechanism for internal-combustion engines. No. 1,139,783; May 18; Gaz. vol. 214; p. 798.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,148,697; Aug. 3; Gaz. vol. 217; p. 77.
- Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Oil-pump. No. 1,150,527; Aug. 17; Gaz. vol. 217; p. 891.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Transmission mechanism for motor-vehicles. No. 1,157,015; Oct. 19; Gaz. vol. 219; p. 645.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,157,878; Oct. 26; Gaz. vol. 219; p. 1010.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,157,879; Oct. 26; Gaz. vol. 219; p. 1010.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Irreversible mechanism. No. 1,158,698; Nov. 2; Gaz. vol. 220; p. 100.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Oiling system for motors. No. 1,160,298; Nov. 16; Gaz. vol. 220; p. 749.
- Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,163,935; Dec. 14; Gaz. vol. 221; p. 466.
- Loomis, Burdett, Hartford, Conn., assignor to Loomis Utilization Company, East Orange, N. J. Apparatus for treating and distilling wood. No. 1,148,104; July 27; Gaz. vol. 216; p. 1164.
- Loomis, Burdett, Hartford, Conn., assignor to Loomis Utilization Company, East Orange, N. J. Retting and ungumming fiber-plants. No. 1,148,698; Aug. 3; Gaz. vol. 217; p. 77.
- Loomis, H. R., trustee. (See McAdams, Sylvester L., assignor.)
- Loomis, Jacob, Wheeling, W. Va. Hot-mill roll. No. 1,130,911; Mar. 9; Gaz. vol. 212; p. 407.
- Loomis, Osborn P., Newport News, Va. Appliance for indicating explosive pressures in gas-engines. No. 1,142,639; June 22; Gaz. vol. 215; p. 995.
- Loomis, Osmond E., assignor of three-eighths to I. Thursby and three-eighths to O. E. Roush, Akron, Ohio. Intermittent-grip device. No. 1,136,821; Apr. 20; Gaz. vol. 213; p. 1053.
- Loomis, Ralph I., Geneva, Ill. Adjustable trestle. No. 1,147,522; July 20; Gaz. vol. 216; p. 931.
- Loomis Utilization Company. (See Loomis, Burdett, assignor.)
- Loop, Leonard, Okmulgee, Okla. Deep-well pump. No. 1,163,024; Dec. 7; Gaz. vol. 221; p. 101.
- Loose, Johannes, assignor to Fortuna-Werke, Spezialmaschinenfabrik G. m. b. H., Stuttgart-Cannstatt, Germany. Flexible coupling. No. 1,150,441; Aug. 17; Gaz. vol. 217; p. 860.
- Loose, Kenneth D., Boston, Mass., assignor to Loose-Wiles Biscuit Company, New York, N. Y. Continuous dough sheeting and feeding mechanism. No. 1,134,971; Apr. 6; Gaz. vol. 213; p. 316.
- Loose-Wiles Biscuit Company. (See Lawrence, Edward E., assignor.)
- Loose-Wiles Biscuit Company. (See Loose, Kenneth D., assignor.)
- Loper Brothers. (See Davis, Nelson W., assignor.)
- Loper, Walter H. (See Ingram, John C., assignor.)
- Lopez, Abraham R. and J. R., Boston, Mass. Button-making machine. No. 1,152,111; Aug. 31; Gaz. vol. 217; p. 1540.
- Lopez, Arthur, assignor to The Hammond Typewriter Co., New York, N. Y. Carriage for type-writing machines. No. 1,126,644; Jan. 26; Gaz. vol. 210; p. 1335.
- Lopez, Arthur, New York, N. Y., assignor to The Hammond Typewriter Co. Type-shifting attachment for type-writing machines. No. 1,131,640; Mar. 9; Gaz. vol. 212; p. 659.
- Lopez, Arthur, assignor to The Hammond Typewriter Company, New York, N. Y. Type-writing machine. No. 1,155,828; Oct. 5; Gaz. vol. 219; p. 176.
- Lopez, Jacob R. (See Lopez, Abraham R. and J. R.)
- Lopez, Julius M. (See Butusov, William P., assignor.)
- Lopez, Victor L., and A. L. Romero, Montecito, Cal. Combination shovel and ax. No. 1,124,046; Jan. 5; Gaz. vol. 210; p. 288.
- Loranger, John R., Detroit, Mich. Table for paper-hangers. No. 1,147,255; July 20; Gaz. vol. 216; p. 838.
- Lorch, George E., et al. (See Swyers, Brice P., assignor.)
- Lorch, Louis, Jr., et al. (See Swyers, Brice P., assignor.)
- Lord, Albert L., and B. W. Brockett, assignors to The Gugenheim Laundry Machinery Company, Cleveland, Ohio. Ironing-press. No. 1,130,415; Mar. 2; Gaz. vol. 212; p. 200.
- Lord Baltimore Press, The. (See Billstein, Aaron M., assignor.)
- Lord, Henry J., Michelson, Mich. Securing device. No. 1,146,083; July 13; Gaz. vol. 216; p. 408.
- Lord, Henry L., Kanopolis, Kans. Lawn-sprinkler. No. 1,142,448; June 8; Gaz. vol. 215; p. 517.
- Lord, Lee Roy, Delagua, Colo. Brush-holder. No. 1,161,397; Nov. 23; Gaz. vol. 220; p. 1186.
- Lord Manufacturing Co. (See Horne and Crane, assignors.)
- Lord, Peter, assignor of fifty-five one-hundredths to E. Lannegrace, Montreal, Quebec, Canada. Valve. No. 1,150,779; Aug. 17; Gaz. vol. 217; p. 978.
- Lord & Taylor. (See Beers, George E., assignor.)
- Lord, W. M. (See Hall, John A., assignor.)
- Lordier, Frank J. (See Wolfe, Ota A., assignor.)
- Lorenc, Victor. (See Lorenc, Vladimir and V.)
- Lorenc, Vladimir and V., Paris, France. Device for propelling aerial machines. No. 1,132,368; Mar. 16; Gaz. vol. 212; p. 956.
- Lorenson, Carl, Davenport, Iowa. Mowing-machine. No. 1,140,175; May 18; Gaz. vol. 214; p. 938.
- Lorentzen, Gustave A. (See Schrafft, Blake, and Lorentzen.)
- Lorenz, Charles O., Port Arthur, Tex. Detector for wireless telegraphy. No. 1,159,969; Nov. 9; Gaz. vol. 220; p. 582.
- Lorenz, Charley O., Port Arthur, Tex. Inductance device for wireless electrical signaling. No. 1,133,441; Mar. 30; Gaz. vol. 212; p. 1430.
- Lorenz, Ernest C., assignor to Pacific Motorless Sign Co., San Francisco, Cal. Electric flasher for multiple sets of lamps. No. 1,127,655; Feb. 9; Gaz. vol. 211; p. 384.
- Lorenz, Friedrich, Wildau, near Berlin, Germany, assignor to T. P. Kingsford and V. K. Higgins, Oswego, N. Y. Balancing device for centrifugal pumps, turbines, blowers, and the like. No. 1,130,616; Mar. 2; Gaz. vol. 212; p. 271.
- Lorenz, Friedrich W., Neuss-on-the-Rhine, Germany. Elastic piston for apparatus influenced by the expansion of a liquid through heat. No. 1,158,822; Nov. 2; Gaz. vol. 220; p. 146.
- Lorenz, Joseph, Robinson, Ill. Underreamer. No. 1,136,542; Apr. 20; Gaz. vol. 213; p. 954.
- Lorenz, Oswald. (See Welde, Hans, assignor.)
- Lorenz, Peter A. (See Adler, Eror A., assignor.)
- Lorenz, Rudolf. (See Reiter, Rudolf, assignor.)
- Lorenz, William A., Hartford, assignor, by mesne assignments, to Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,123,561; Jan. 5; Gaz. vol. 210; p. 124.
- Lorenz, William A., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,123,771; Jan. 5; Gaz. vol. 210; p. 196.
- Lorenz, William A., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,127,048; Feb. 2; Gaz. vol. 211; p. 135.
- Lorenz, William A., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,149,659; Aug. 10; Gaz. vol. 217; p. 524.
- Lorenz, William A., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,158,941; Nov. 2; Gaz. vol. 220; p. 186.
- Lorenz, William A., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,164,945; Dec. 21; Gaz. vol. 221; p. 859.
- Lorenz, William A., assignor of one-fourth to W. H. Honiss, Hartford, Conn., and one-half to Beech-Nut Packing Company, Canajoharie, N. Y. Hermetic closure for receptacles. No. 1,150,780; Aug. 17; Gaz. vol. 217; p. 978.
- Lorenz, William A., and J. Merritt, Hartford, Conn., assignors of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., one-fourth to said Lorenz, and one-fourth to W. H. Honiss, Hartford, Conn. Hermetic-sealing apparatus. No. 1,125,138; Jan. 19; Gaz. vol. 210; p. 760.
- Loretta, Paul. (See Chaney, Oscar E., assignor.)
- Lorgreen, Alex T., Paso Robles, Cal. Anti-rail-spreading device. No. 1,164,107; Dec. 14; Gaz. vol. 221; p. 526.
- Lorimer, George W., Piqua, Ohio, assignor, by mesne assignments, to Western Electric Company. Automatic telephone-exchange. No. 1,128,469; Feb. 16; Gaz. vol. 211; p. 722.
- Lorimer, George W., Piqua, assignor to Sand Mixing Machine Company, Greenfield, Ohio. Automatic take-up reel. No. 1,131,069; Mar. 9; Gaz. vol. 212; p. 461.
- Lorimer, William, Jr. (See Brisbois, Odilon, assignor.)
- Loring, Benjamin C., assignor to J. A. Moross and R. C. Loring, trustees, Detroit, Mich. Wind-shield cleaner. No. 1,153,848; Sept. 14; Gaz. vol. 218; p. 564.

Alphabetical list of patentees—Continued.

- Loring, Benjamin C., Providence, assignor, by mesne assignments, of three-fourths to R. G. Lumb, Pawtucket, R. I., and one-fourth to J. A. Moross and M. S. Moross, Detroit, Mich. Automobile-radiator. No. 1,152,328; Aug. 31; Gaz. vol. 217; p. 1614.
- Loring, Charles. (See Felsing, Samuel D., assignor.)
- Loring, Rosanna C., *et al.*, trustees. (See Loring, Benjamin C., assignor.)
- Lorraine, Le Roy F., assignor of one-half to R. F. Grenfell, San Diego, Cal. Tool. No. 1,144,555; June 29; Gaz. vol. 215; p. 1340.
- Lorraine Manufacturing Company. (See La Vallee, Emmanuel, assignor.)
- Lory, Louis W., Madison, Ind. Fishing-line float. No. 1,126,045; Jan. 26; Gaz. vol. 210; p. 1116.
- Los Angeles Can Company. (See Sumner and Wilson, assignors.)
- Losgar, John M. (See Long, Clyde M., assignor.)
- Losh, Perry, Muncie, Ind. Combined stop and relief valve. No. 1,146,723; July 13; Gaz. vol. 216; p. 631.
- Loshbough, James E., assignor, by mesne assignments, to W. S. Ferris, Elkhart, Ind., and A. B. Leith, Chicago, Ill., trustees. Wheel-mount for perambulators. No. 1,123,905; Jan. 5; Gaz. vol. 210; p. 241.
- Losure, Lisander, Vanburen, Ind. Fence-stretching device. No. 1,158,942; Nov. 2; Gaz. vol. 220; p. 186.
- Lothrop, Thomas M., Glencoe, assignor to Thomas M. Lothrop & Co., Chicago, Ill. Steel-shelving. No. 1,135,970; Apr. 13; Gaz. vol. 213; p. 611.
- Loton, August, Buffalo, N. Y. Barrel-truck. No. 1,124,767; Jan. 12; Gaz. vol. 210; p. 594.
- Lotstrom, Alexander E., Seattle, Wash. Nut-locking device. No. 1,138,878; May 11; Gaz. vol. 214; p. 445.
- Lott, Archie V., Sellersburg, Ind. Amusement device. No. 1,145,326; July 6; Gaz. vol. 216; p. 122.
- Lott, Charles C., Hattiesburg, Miss. Sash-holder and burglar-alarm. No. 1,150,528; Aug. 17; Gaz. vol. 217; p. 892.
- Loti, Charles W., and J. J. Heiman, Center, Colo. Combination garden hoe and rake. No. 1,133,139; Mar. 23; Gaz. vol. 212; p. 1295.
- Lotterhand, Jason C., assignor to Addometer Corporation, New York, N. Y. Carrying means for adding-machines. (Reissue.) No. 13,997; Oct. 19; Gaz. vol. 219; p. 873.
- Lotterhand, Jason C., assignor to Addometer Corporation, New York, N. Y. Roll-holder for calculators. No. 1,158,519; Nov. 2; Gaz. vol. 220; p. 39.
- Lotterhand, Jason C., deceased, New York, N. Y., assignor to Addometer Corporation, Dover, Del. Printing mechanism for adding-machines. (Reissue.) No. 14,011; Nov. 16; Gaz. vol. 220; p. 1006.
- Lotz, Augustus, San Francisco, Cal., and C. W. Bailey, Philadelphia, Pa., assignors, by mesne assignments, to The Vacuum Cleaner Company, New York, N. Y. Governor for vacuum cleaning systems. No. 1,128,615; Feb. 16; Gaz. vol. 211; p. 772.
- Lotz, Frederick W., Philadelphia, Pa. Preparing foods. No. 1,157,016; Oct. 19; Gaz. vol. 219; p. 646.
- Lotz, George L., and J. W. Kremer, Seattle, Wash. Automobile-lock. No. 1,147,634; July 20; Gaz. vol. 216; p. 971.
- Lotz, Henry, Lawrence, Mass. Device for raising sunken vessels. No. 1,133,160; Mar. 23; Gaz. vol. 212; p. 1295.
- Lotz, Henry, Lawrence, Mass. Means for locating submarine boats. No. 1,154,522; Sept. 21; Gaz. vol. 218; p. 829.
- Lotz, Philip W., East Berlin, Conn. Rat-trap mechanism. No. 1,150,135; Aug. 17; Gaz. vol. 217; p. 754.
- Loud, Henry S., New York, N. Y. Treating materials with liquid preservative. No. 1,147,635; July 20; Gaz. vol. 216; p. 972.
- Loud, Henry S., New York, N. Y. Preserving wood. No. 1,151,204; Aug. 24; Gaz. vol. 217; p. 1183.
- Loud, Henry S., New York, N. Y. Treating porous bodies with liquid preservative. No. 1,151,205; Aug. 24; Gaz. vol. 217; p. 1183.
- Louden Machinery Company. (See Neller, Albert H., assignor.)
- Louden Machinery Company. (See Young, Lester J., assignor.)
- Louden, Samuel E., Riverside, Conn. Combination-tip for crutches and canes. No. 1,158,943; Nov. 2; Gaz. vol. 220; p. 187.
- Louden, William, Fairfield, Iowa. Structural coupling for pipes, shafts, &c. No. 1,150,781; Aug. 17; Gaz. vol. 217; p. 979.
- Loudenbeck, Harry C., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Method of lubrication. No. 1,129,304; Feb. 23; Gaz. vol. 211; p. 1049.
- Loudenslager, John E., Jr., Hagerstown, Md. Mail-box. No. 1,141,806; June 1; Gaz. vol. 215; p. 252.
- Louderback, Raymond L., Middletown, Ohio. Horseshoe-calk. No. 1,152,526; Sept. 7; Gaz. vol. 218; p. 54.
- Loudon, Archibald M., *et al.*, administrators. (See Loudon and Gow.)
- Loudon, Archibald M., Elmira, and J. Gow, deceased, Schenectady; A. M. Loudon, Elmira, and H. W. Philbrook, Schenectady, N. Y., administrators. Molding-machine. No. 1,135,120; Apr. 13; Gaz. vol. 213; p. 414.
- Loudon, Fred, Wilmington, Ill. Show-case. No. 1,123,332; Jan. 5; Gaz. vol. 210; p. 46.
- Loudon, William C., St. Louis, Mo. Gas-generating furnace. No. 1,145,327; July 6; Gaz. vol. 216; p. 122.
- Lougee, William S., assignor to J. Spaulding and Sons Company, Rochester, N. H. Shoe-form. No. 1,128,160; Feb. 9; Gaz. vol. 211; p. 565.
- Lougee, William S., assignor to J. Spaulding & Sons Co., Rochester, N. H. Crimping or corrugating machine. No. 1,160,732; Nov. 16; Gaz. vol. 220; p. 904.
- Lougee, William S., assignor to J. Spaulding & Sons Co., Rochester, N. H. Machine for treating insoles for welted boots and shoes. No. 1,160,733; Nov. 16; Gaz. vol. 220; p. 905.
- Lougee, William S., Rochester, N. H., and A. M. English, Brookline, Mass., assignors to J. Spaulding & Sons Co., Rochester, N. H. Crimping or corrugating machine. No. 1,129,355; Feb. 23; Gaz. vol. 211; p. 1066.
- Lougee, William S., and W. N. Morrison, assignors to J. Spaulding & Sons Co., Rochester, N. H. Machine for channeling insoles. No. 1,160,734; Nov. 16; Gaz. vol. 220; p. 905.
- Lough, David C., assignor of one-half to C. E. Reed, Greenland, W. Va. Adjustable brake-rod. No. 1,156,789; Oct. 12; Gaz. vol. 219; p. 534.
- Lough, Frederic J. (See Jacobsen, Cameron and Lough.)
- Lough, Hector V., Plainfield, assignor to W. E. Lough, North Plainfield, N. J. Bedstead corner-bracket. No. 1,124,156; Jan. 5; Gaz. vol. 210; p. 326.
- Lough, Walter E. (See Lough, Hector V., assignor.)
- Loughbridge, Matthew H., New York, N. Y. Underground-conduit construction. No. 1,143,412; June 15; Gaz. vol. 215; p. 893.
- Louis Hanson Company. (See Hanson, Martin, assignor.)
- Louis, Salo H., New York, N. Y. Insect-powder container and sprinkler. No. 1,148,391; July 27; Gaz. vol. 216; p. 1266.
- Louisiana Nut and Machine Company. (See Williams, Dick B., assignor.)
- Louisville Machine Company, The. (See Warstler and Leichot, assignors.)
- Lounds, Charles S., Fort Lee, N. J. Liquid coating composition for preventing metallic surfaces from tarnishing. No. 1,146,336; July 13; Gaz. vol. 216; p. 496.
- Lounley, Frank, Oswego, N. Y. Pennant-holder for automobiles. No. 1,138,964; May 11; Gaz. vol. 214; p. 474.
- Lounsherry, David, Holyoke, Colo. Horse-operated push-mower. No. 1,164,827; Dec. 21; Gaz. vol. 221; p. 817.
- Lounsbury, Ward A., Kalamazoo, Mich. Hand-truck. No. 1,125,571; Jan. 19; Gaz. vol. 210; p. 914.
- Lourdin, Louis M. G., Paris, France. Dirigible light. No. 1,127,463; Feb. 9; Gaz. vol. 211; p. 321.
- Loutrel, Cyrus H., South Orange, assignor to The National Lock Washer Company, Newark, N. J. Nut-lock. No. 1,135,597; Apr. 13; Gaz. vol. 213; p. 579.
- Loutrel, Cyrus H., South Orange, assignor to The National Lock Washer Company, Newark, N. J. Machine for coiling metal. No. 1,137,412; Apr. 27; Gaz. vol. 213; p. 1304.
- Lovatt, William, Greenport, N. Y. Piston packing-ring. No. 1,144,486; June 29; Gaz. vol. 215; p. 1317.
- Love, Aubrey. (See Kelly, Hugh W., assignor.)
- Love, Charles A. (See Wood, James E., assignor.)
- Love, Daniel J., Carlisle, Iowa. Stanchion. No. 1,154,706; Sept. 28; Gaz. vol. 218; p. 921.
- Love, Emanuel, Trenton, N. J. Paper-roll-making apparatus. No. 1,143,214; June 15; Gaz. vol. 215; p. 824.
- Love, James A., Red Spring, N. C. Automatic train-stop device. No. 1,130,990; Mar. 9; Gaz. vol. 212; p. 434.
- Love, Juniaus A., Roanoke, Va. Trolley-guard. No. 1,125,353; Jan. 19; Gaz. vol. 210; p. 838.
- Love, Robert, Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Fertilizer-distributor. No. 1,125,139; Jan. 19; Gaz. vol. 210; p. 760.
- Love, Wm. T., trustee. (See Larson, Charles G., assignor.)
- Lovejoy, Alfred A., Lowell, assignor of one-fourth to C. Whitaker, deceased; H. B. Whitaker, C. W. Lambert, Tyngsboro, and H. G. Hill, Lowell, Mass., executors. Spindle-support for spinning and like machines. No. 1,125,700; Jan. 19; Gaz. vol. 210; p. 963.
- Lovejoy, Frank W. (See Barnes and Lovejoy.)
- Lovejoy, Harvey P., Los Gatos, assignor of one-half to A. L. Hollis and one-half to A. C. Carr, San Francisco, Cal. Folding kite. No. 1,153,637; Sept. 14; Gaz. vol. 218; p. 489.
- Lovejoy, Ralph M., Meredith, N. H. Shock-absorber. No. 1,164,371; Dec. 14; Gaz. vol. 221; p. 618.
- Lovejoy, Thomas H., Chicago, Ill. Thrust-bearing for drill-spindles. No. 1,135,198; Apr. 13; Gaz. vol. 213; p. 440.
- Lovekin, Luther D. (See Turner, Ernest G., assignor.)
- Lovekin, Luther D., Philadelphia, Pa. Steam-generating boiler. No. 1,128,700; Feb. 16; Gaz. vol. 211; p. 800.
- Lovekin, Luther D., Philadelphia, Pa. Gas-burner. No. 1,134,628; Apr. 6; Gaz. vol. 213; p. 198.
- Lovekin, Luther D., Philadelphia, Pa. Surface condenser. No. 1,139,547; May 18; Gaz. vol. 214; p. 715.
- Lovekin, Luther D., Philadelphia, Pa. Heat-transferring device. No. 1,139,548; May 18; Gaz. vol. 214; p. 715.
- Lovekin, Luther D., Philadelphia, Pa. Fluid heating and cooling apparatus. No. 1,139,549; May 18; Gaz. vol. 214; p. 716.
- Lovekin, Luther D., Philadelphia, Pa. Water-heater. No. 1,143,291; June 15; Gaz. vol. 215; p. 850.

Alphabetical list of patentees—Continued.

- Lovekin, Luther D., Philadelphia, Pa. Air-cushioning Mechanism. No. 1,149,589; Aug. 10; Gaz. vol. 217; p. 495.
- Lovekin, Luther D., C. J. Ramsburg, Philadelphia, Pa., and R. P. Nichols, Chicago, Ill., assignors to Thermal Motor Company, Camden, N. J. Thermal engine. No. 1,149,588; Aug. 10; Gaz. vol. 217; p. 494.
- Loveland, William, and H. E. Sloan, Philadelphia, Pa. Printer's column-rule. No. 1,123,772; Jan. 5; Gaz. vol. 210; p. 197.
- Loveland, William, and H. E. Sloan, Philadelphia, Pa. Type-turtle or fudge-bed for rotary printing-presses. No. 1,134,340; Apr. 6; Gaz. vol. 213; p. 94.
- Lovell, Albert K., New Haven, Conn. Window-operating apparatus. No. 1,152,425; Sept. 7; Gaz. vol. 218; p. 16.
- Lovell, Frederick W., assignor to The McMyler Interstate Company, Cleveland, Ohio. Apparatus for loading and trimming vessels. No. 1,124,047; Jan. 5; Gaz. vol. 210; p. 288.
- Lovell, Frederick W., assignor to The McMyler Interstate Company, Cleveland, Ohio. Car-haulage plant. No. 1,125,354; Jan. 19; Gaz. vol. 210; p. 839.
- Lovell, Frederick W., assignor to The McMyler Interstate Company, Bedford, Ohio. Car-haulage system. No. 1,125,355; Jan. 19; Gaz. vol. 210; p. 839.
- Lovell, Frederick W., assignor to The McMyler Interstate Company, Cleveland, Ohio. Car-dumper. No. 1,145,907; July 13; Gaz. vol. 216; p. 345.
- Lovell, Frederick W., assignor to The McMyler Interstate Company, Cleveland, Ohio. Car-haulage plant. No. 1,155,748; Oct. 5; Gaz. vol. 219; p. 147.
- Lovell Manufacturing Company. (See Kelly, William J., assignor.)
- Lovell Manufacturing Company. (See Robertson, William, assignor.)
- Lovell Manufacturing Company. (See Schendler, Paul H., assignor.)
- Lovell-McConnell Manufacturing Company. (See Arlitz, Oscar C., assignor.) (Reissue.)
- Lovell-McConnell Manufacturing Company. (See Dean, George C., assignor.)
- Lovell-McConnell Manufacturing Company. (See Hutchison, Miller R., assignor.) (Reissue.)
- Lovell-McConnell Manufacturing Company. (See McConnell, Duncan A., assignor.)
- Lovell-McConnell Manufacturing Company. (See McMurtry, Alden L., assignor.)
- Lovell, Myron S., Oswego, N. Y. Producing photographic prints. No. 1,137,503; Apr. 27; Gaz. vol. 213; p. 1335.
- Lovell, Ralph L. (See Curtis and Lovell.)
- Lovenberg, Adelaide, assignor of one-third to R. E. Thornton and one-third to E. Lowande, Providence, R. I. Change-maker. No. 1,144,606; June 29; Gaz. vol. 215; p. 1356.
- Loveren, Arthur D., Newark, N. J., assignor to American Automatic Vending Machine Company. Vending-machine. No. 1,149,377; Aug. 10; Gaz. vol. 217; p. 421.
- Lovering, Edward G., Detroit, Mich. Soap-dispenser. No. 1,156,164; Oct. 12; Gaz. vol. 219; p. 317.
- Lovering, Frank M., Bangor, Me. Spring bed-bottom. No. 1,148,241; July 27; Gaz. vol. 216; p. 1212.
- Lovering, John W., Sandown, N. H. Cotter-pin-extracting tool. No. 1,153,849; Sept. 14; Gaz. vol. 218; p. 565.
- Lovett, Morris J., Randsburg, Cal. Permutation-padlock. No. 1,139,986; May 18; Gaz. vol. 214; p. 870.
- Lövinsohn, Emil, Charlottenburg, Germany. Manufacture of power-press pattern-sheets. No. 1,125,572; Jan. 19; Gaz. vol. 210; p. 914.
- Lovrinovich, John S., Hoboken, N. J. Transom-opener. No. 1,151,206; Aug. 24; Gaz. vol. 217; p. 1183.
- Low, Albert H. (See Heberling and Low.)
- Low, Archibald M., Greenford Park, England. Internal-combustion engine using liquid fuel. No. 1,124,157; Jan. 5; Gaz. vol. 210; p. 326.
- Low, Arthur B., Denver, Colo. Portable vulcanizing-packing. No. 1,163,629; Dec. 7; Gaz. vol. 221; p. 313.
- Low, Frank. (See Muhleman, Charles H., assignor.)
- Low, H. N. (See Golding, John F., assignor.)
- Low, Juliette, London, England. Liquid-container for use with garbage-cans or the like. No. 1,124,925; Jan. 12; Gaz. vol. 210; p. 649.
- Lowande, Estelle, et al. (See Lovenberg, Adelaide, assignor.)
- Lowden, Joseph E., Cincinnati, Ohio, assignor to The George E. Lee Company. Regulator for melting-pots. No. 1,156,239; Oct. 12; Gaz. vol. 219; p. 342.
- Lowe, Arthur H., Carter, assignor of one-half to J. B. Snyder, Watauga, Tenn. Rail device. No. 1,146,888; July 20; Gaz. vol. 216; p. 709.
- Lowe, Edward T., Sr., et al. (See Wood, Halbert M., assignor.)
- Lowe, Elijah J., Joaquin, Tex. Wire-stretcher. No. 1,131,486; Mar. 16; Gaz. vol. 212; p. 768.
- Lowe, Euclid J., Balboa, Canal Zone. Drill-rod coupling. No. 1,148,977; Aug. 3; Gaz. vol. 217; p. 174.
- Lowe, Harry W., Florence, Nebr. Heating apparatus for canning-machines. No. 1,129,698; Feb. 23; Gaz. vol. 211; p. 1184.
- Lowe, Harry W., Florence, Nebr. Sterilizing apparatus. No. 1,151,023; Aug. 24; Gaz. vol. 217; p. 1120.
- Lowe, Harry W., Florence, Nebr. Sterilizing-machine. No. 1,157,017; Oct. 19; Gaz. vol. 219; p. 646.
- Lowe, Henry A., Cleveland, Ohio. Test-indicator. No. 1,144,367; June 29; Gaz. vol. 215; p. 1278.
- Lowe, Herbert J., Galesburg, Ill. Roller-clamp. No. 1,144,556; June 29; Gaz. vol. 215; p. 1340.
- Lowe, Jesse, Sr., Beardstown, Ill. Reservoir and its construction. No. 1,159,055; Nov. 2; Gaz. vol. 220; p. 223.
- Lowe, John D. (See Brownlee, Spacke, and Lowe.)
- Lowe, John E., Good Hope, Ill. Measuring-pump. No. 1,130,912; Mar. 9; Gaz. vol. 212; p. 407.
- Lowe, Richard C., Virginia, Ill. Combination step-ladder and ironing-board. No. 1,139,784; May 18; Gaz. vol. 214; p. 799.
- Lowe, Robert E., Brooklyn, N. Y. Garment. No. 1,136,822; Apr. 20; Gaz. vol. 213; p. 1054.
- Lowe, Walter, Sparks, Ga. Steering-rod appliance. No. 1,146,631; July 13; Gaz. vol. 216; p. 601.
- Lowe, William C., Atlanta, Ga. Automatic low-temperature cut-off for water-pipes. No. 1,134,882; Apr. 6; Gaz. vol. 213; p. 286.
- Lowell, Erwin D., Cleveland Heights Village, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Paper casing for hoes. No. 1,152,957; Sept. 7; Gaz. vol. 218; p. 212.
- Lowell, Erwin D., Cleveland Heights Village, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Paper casing for agricultural forks. No. 1,161,707; Nov. 23; Gaz. vol. 220; p. 1292.
- Löwenberg, Otto, Cologne, Germany. Cable-lubricator. No. 1,160,919; Nov. 16; Gaz. vol. 220; p. 969.
- Lowenstein, Gothard, New York, N. Y. Lens-securing device. No. 1,148,105; July 27; Gaz. vol. 216; p. 1165.
- Löwenstein, Karl, Prinz zu, Kleingemünd, near Neckargemünd, Germany. Means for packing the working parts of rotary engines. No. 1,133,982; Mar. 30; Gaz. vol. 212; p. 1619.
- Löwenstein, Karl, Prinz zu, Neckargemünd, Germany. Casing for downdraft-furnaces. No. 1,140,908; May 25; Gaz. vol. 214; p. 1229.
- Lowenthal, Isaac C., et al. (See Brown, Henry C., assignor.)
- Lower, Nathan M., assignor to Locomotive Stoker Company, Schenectady, N. Y. Oil-separator for steam-engines. No. 1,144,331; June 22; Gaz. vol. 215; p. 1236.
- Lowery, Daniel D., Harrisburg, Pa. Game apparatus. No. 1,153,802; Sept. 14; Gaz. vol. 218; p. 546.
- Lowry, Albert L., Redwood City, Cal. Pocket-closer. No. 1,145,496; July 6; Gaz. vol. 216; p. 182.
- Lowrie, Robert M., Catford, England. Electrically-driven clock and other electrically-driven running mechanism. No. 1,136,350; Apr. 20; Gaz. vol. 213; p. 884.
- Lowres, George J., Newark, N. J. Lorgnette. No. 1,137,504; Apr. 27; Gaz. vol. 213; p. 1335.
- Lowrey, Ellis, Bernice, La. Metallic tie. No. 1,144,908; June 29; Gaz. vol. 215; p. 1461.
- Lowrey, Frederick C., River Forest, Ill. Prepared roofing. No. 1,134,086; Mar. 30; Gaz. vol. 212; p. 1655.
- Lowrey, John M., Birmingham, Ala. Trap. No. 1,126,801; Feb. 2; Gaz. vol. 211; p. 49.
- Lowry, Frank, assignor to The Ohio Grease Company, Loudonville, Ohio. Drop-feed lubricator. No. 1,131,396; Mar. 9; Gaz. vol. 212; p. 573.
- Lowry, Frank, assignor to The Ohio Grease Company, Loudonville, Ohio. Drop-feed lubricator. No. 1,156,488; Oct. 12; Gaz. vol. 219; p. 430.
- Lowry, Frank, Steubenville, assignor to The Ohio Grease Company, Loudonville, Ohio. Grease lubricator. No. 1,131,639; Mar. 9; Gaz. vol. 212; p. 659.
- Lowry, Frederick N., Midland, assignor to G. B. Willcox, Saginaw, Mich. Meter. No. 1,160,735; Nov. 16; Gaz. vol. 220; p. 906.
- Lowry, George A., East Boston, Mass. Submarine-signal device. No. 1,124,768; Jan. 12; Gaz. vol. 210; p. 594.
- Lowry, George A., New York, N. Y., assignor to Palmetto Products Company, Incorporated. Spinning and twisting fibers. No. 1,150,136; Aug. 17; Gaz. vol. 217; p. 754.
- Lowry, George A., New York, N. Y., assignor to Palmetto Products Company, Incorporated. Machine for spinning and twisting fibers. No. 1,150,137; Aug. 17; Gaz. vol. 217; p. 755.
- Lowry, George A., assignor to Palmetto Products Company, Incorporated, New York, N. Y. Making palmetto or palm fiber twine. No. 1,163,763; Dec. 14; Gaz. vol. 221; p. 406.
- Lowy, Morris, assignor to Lowy Patent Furniture Co., Inc., New York, N. Y. Crib. No. 1,143,292; June 15; Gaz. vol. 215; p. 850.
- Lowy Patent Furniture Co. (See Lowy, Morris, assignor.)
- Loy, William G., Minneapolis, Minn. Locomotive-boller. No. 1,162,296; Nov. 30; Gaz. vol. 220; p. 1545.
- Loyd, Melvin W., Afton, Okla., and A. Phelps, Fort Scott, Kans. Safety-valve. No. 1,136,606; Apr. 20; Gaz. vol. 213; p. 977.
- Loye, Lillian G., Minneapolis, Minn. Nursery-chair. No. 1,163,837; Dec. 14; Gaz. vol. 221; p. 432.
- Loyster, James A., Cazenovia, N. Y. Door operating and locking mechanism for jails. No. 1,136,351; Apr. 20; Gaz. vol. 213; p. 885.

- Lozano, Antonio, Corpus Christi, Tex. Liquid and gaseous fuel burner. No. 1,130,747; Mar. 9; Gaz. vol. 212; p. 350.
- Lubas, Mike, Naugatuck, Conn. Ink-well. No. 1,162,791; Dec. 7; Gaz. vol. 221; p. 21.
- Lubberger, Fritz. (See Martin and Lubberger.)
- Lubbers, John A., et al. (See Jackson, John, assignor.)
- Lubbock, Oswald J., San Francisco, Cal. Sprinkler-head. No. 1,160,517; Nov. 16; Gaz. vol. 220; p. 825.
- Lubell, Julius L., New York, N. Y. Child's garment. No. 1,154,523; Sept. 21; Gaz. vol. 218; p. 829.
- Lubin Manufacturing Company. (See Tessier, Julien, assignor.)
- Lublin, Stanislaw. (See Galdyn and Lublin.)
- Lubrecht, George, et al. (See Hauss, Albert F., assignor.)
- Luburg, Ellsworth N., Arlington, Md. Slack-adjuster. No. 1,162,180; Nov. 30; Gaz. vol. 220; p. 1505.
- Luburg, Ellsworth N., Arlington, Md. Slack-adjuster. No. 1,163,550; Dec. 7; Gaz. vol. 221; p. 284.
- Luby, Theodore, assignor of one-half to M. Rothschild, Philadelphia, Pa. Attachment for telephone-transmitters. No. 1,138,389; May 4; Gaz. vol. 214; p. 236.
- Lucas, August L., New Haven, Conn. Tool. No. 1,160,920; Nov. 16; Gaz. vol. 220; p. 970.
- Lucas, David, Madison, Kans. Threshing-machine. No. 1,158,944; Nov. 2; Gaz. vol. 220; p. 187.
- Lucas, Henry J., Whitestone, N. Y. Garbage-can. No. 1,131,847; Mar. 16; Gaz. vol. 212; p. 768.
- Lucas, Herman T., Grand Rapids, Mich. Fruit-picker. No. 1,166,066; Dec. 28; Gaz. vol. 221; p. 1287.
- Lucas, John, Alton, Iowa. Fence-post. No. 1,123,333; Jan. 5; Gaz. vol. 210; p. 47.
- Lucas, Nannie P., Washington, D. C. Food-grinder. No. 1,155,749; Oct. 5; Gaz. vol. 219; p. 147.
- Lucas, Owen D., Westminster, London, England. Carburetor for internal-combustion engines. No. 1,150,782; Aug. 17; Gaz. vol. 217; p. 979.
- Lucas, Owen D., Westminster, London, England. Pump. No. 1,152,112; Aug. 31; Gaz. vol. 217; p. 1540.
- Lucas, Owen D., Westminster, London, England. Gas-producer. No. 1,153,506; Sept. 14; Gaz. vol. 218; p. 444.
- Lucas Signal & Control Company. (See Lucas, William B., assignor.)
- Lucas, William B., River Forest, Ill., assignor to Lucas Signal & Control Company. Elevator signaling system. No. 1,142,632; Jan. 12; Gaz. vol. 210; p. 546.
- Lucas, William E., Lyonsville, Cal. Trace connection. No. 1,159,850; Nov. 9; Gaz. vol. 220; p. 540.
- Luce, Thomas C. (See Lashar and Luce.)
- Luce, Thomas C., Stratford, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain-tool. No. 1,141,877; June 1; Gaz. vol. 215; p. 275.
- Lucey, John F. (See Cox, Thomas, assignor.)
- Luchsinger, Fridolin H. (See Polderman and Luchsinger.)
- Lucia, Joel, Portland, Oreg. Warp-line cleat. No. 1,141,807; June 1; Gaz. vol. 215; p. 252.
- Lucier, Samuel, Boston, Mass. Detachable handle for saws. No. 1,145,428; July 6; Gaz. vol. 216; p. 158.
- Luck, George, Jamaica, N. Y. Auxiliary support for line-type composing-sticks. No. 1,146,005; July 13; Gaz. vol. 216; p. 380.
- Luck, Gustave J., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Slot-forming machine. No. 1,165,790; Dec. 28; Gaz. vol. 221; p. 1192.
- Lucke, Charles E., New York, N. Y. Calorimeter. No. 1,136,884; Apr. 20; Gaz. vol. 213; p. 1074.
- Lucke, Charles E., assignor to Gas and Oil Combustion Company, New York, N. Y. Burning explosive gaseous mixtures. No. 1,146,724; July 13; Gaz. vol. 216; p. 631.
- Lucke, Charles E., assignor to Gas and Oil Combustion Company, New York, N. Y. Burning explosive gaseous mixtures. No. 1,146,725; July 13; Gaz. vol. 216; p. 632.
- Lucke, Charles E., assignor to Gas and Oil Combustion Company, New York, N. Y. Burning liquid and other fuels. No. 1,146,726; July 13; Gaz. vol. 216; p. 632.
- Lucke, Charles E., New York, N. Y., assignor to United States Metallic Packing Company, Philadelphia, Pa. Metallic packing-ring. No. 1,148,600; Aug. 3; Gaz. vol. 217; p. 42.
- Lucke, Frank L., Minneapolis, Minn. Power-transmission mechanism. No. 1,125,140; Jan. 19; Gaz. vol. 210; p. 761.
- Lucke, Wilhelm. (See Lehne and Lucke.)
- Luckenbach, Royer, Darby, assignor to R. Thayer, Philadelphia, Pa. Amalgamating. No. 1,124,482; Jan. 12; Gaz. vol. 210; p. 492.
- Lucker, Frederick L., Brooklyn, and A. O. Carpenter, Corning, N. Y., assignors to Ingersoll-Rand Company, Jersey City, N. J. Regulating device for motor-driven compressors. No. 1,129,878; Mar. 2; Gaz. vol. 212; p. 16.
- Lucker, Oscar H. (See Flechter, Frederick, assignor.)
- Luckett, Philip A., Salisbury, Md. Union undergarment. No. 1,156,301; Oct. 12; Gaz. vol. 219; p. 362.
- Luckett, William S., Philadelphia, Pa. Box or carton. No. 1,165,612; Dec. 28; Gaz. vol. 221; p. 1130.
- Lucus, Eppe M. (See Wright and Tamsitt, assignors.)
- Luden, Jacob C., Reading, Pa. Dust-collecting machine. No. 1,160,628; Nov. 16; Gaz. vol. 220; p. 867.
- Ludington Cigarette Machine Company, The. (See Ludington, Frank E., assignor.)
- Ludington, Frank E., assignor to The Ludington Cigarette Machine Company, Inc., Waterbury, Conn. Feed for cigarette-machines. No. 1,165,613; Dec. 28; Gaz. vol. 221; p. 1130.
- Ludlam, Harry W., Bayonne, N. J. Friction-clutch. No. 1,166,379; Dec. 28; Gaz. vol. 221; p. 1404.
- Ludlow, Charles, Norwood, and W. P. Bausmith, Pleasant Ridge, Ohio. Heating and ventilating system. No. 1,123,334; Jan. 5; Gaz. vol. 210; p. 47.
- Ludlow, Freeman C. (See Oelker and Ludlow.)
- Ludlow, Freeman C., Cincinnati, Ohio. Gas-range. No. 1,150,239; Nov. 2; Gaz. vol. 220; p. 289.
- Ludlow, George M., Chicago, Ill., assignor to The Computing Scale Company. Automatic weighing-scale. No. 1,140,836; May 25; Gaz. vol. 214; p. 1201.
- Ludlow, Margery N., Saratoga Springs, N. Y. Grease-gun for wheel-hubs. No. 1,149,660; Aug. 10; Gaz. vol. 217; p. 524.
- Ludlow Typograph Company, The. (See Brasted, Clair H., assignor.)
- Ludlow Typograph Company, The. (See Carman, Edwin S., assignor.)
- Ludlow Typograph Company, The. (See Reade, William A., assignor.)
- Ludlow Typograph Company, The. (See Reade and Cromwell, assignors.)
- Ludlow, William E., Cleveland, Ohio. Calendar. No. 1,124,926; Jan. 12; Gaz. vol. 210; p. 649.
- Ludwick, William F., Beaumont, Kans., assignor of one-half to C. G. Miller, Enid, Okla. Nut-lock. No. 1,140,468; May 25; Gaz. vol. 214; p. 1076.
- Ludwig, Charles T., Kansas City, Mo. Instrument for taking Bertillon measurements. No. 1,129,699; Feb. 23; Gaz. vol. 211; p. 1184.
- Ludwig, George W., Hollsopple, Pa. Skeleton metallic sole for shoes. No. 1,127,266; Feb. 2; Gaz. vol. 211; p. 217.
- Ludwig Hupfeld Aktiengesellschaft. (See Hansel, Paul, assignor.)
- Ludwig Hupfeld Aktiengesellschaft. (See Hennig, Gustav K., assignor.)
- Ludwig Hupfeld Aktiengesellschaft. (See Reichel and Hennig, assignors.)
- Ludwig, James G., Millersville, assignor of one-half to J. J. Markle, Hanover, Pa. Peel. No. 1,135,906; Apr. 13; Gaz. vol. 213; p. 688.
- Ludy, N. A. (See Minkler, Ray A., assignor.)
- Luedinghaus, Henry, Jr., St. Louis, Mo. Dumping-wagon. No. 1,158,138; Oct. 26; Gaz. vol. 219; p. 1102.
- Luedke-Schaefer-Buttles Co. (See Buttles, Augustus H., assignor.)
- Luehrs, Daniel M., assignor to American Blower Company, Detroit, Mich. Spray-nozzle. No. 1,143,293; June 15; Gaz. vol. 215; p. 850.
- Luehrs, Daniel M., assignor to McCreery Engineering Company, Toledo, Ohio. Spraying device and means for controlling same. No. 1,154,707; Sept. 28; Gaz. vol. 218; p. 922.
- Luellen, Lawrence W. (See Taylor, Eugene H., assignor.)
- Luellen, Lawrence W., Mountain Lakes, N. J. Dispensing apparatus. No. 1,131,255; Mar. 9; Gaz. vol. 212; p. 524.
- Luellen, Lawrence W., Mountain Lakes, N. J., assignor to R. H. Davis, New York, N. Y. Golf-tee. No. 1,152,649; Sept. 7; Gaz. vol. 218; p. 100.
- Luersen, Fritz, Price, Utah. Clothes-line support and adjuster. No. 1,137,505; Apr. 27; Gaz. vol. 213; p. 1336.
- Luersen, Fritz, Price, Utah. Clothes-pin. No. 1,155,254; Sept. 28; Gaz. vol. 218; p. 1107.
- Luethl, Frederick C., Stoughton, Wis. Identification device. No. 1,149,929; Aug. 10; Gaz. vol. 217; p. 620.
- Luethjohn, Paul E., Cleveland, Ohio. Floor scraper or cleaner. No. 1,156,790; Oct. 12; Gaz. vol. 219; p. 534.
- Luethy, Frederick C., Stoughton, Wis. Street-indicator. No. 1,142,718; June 8; Gaz. vol. 215; p. 607.
- Luff, Alfred H., Payneham, and H. C. Willmott, St. Peters, South Australia, Australia. Closure for rendering bottles antirefillable. No. 1,125,573; Jan. 19; Gaz. vol. 210; p. 914.
- Luft, Henry, New York, N. Y. Faucet. No. 1,135,907; Apr. 13; Gaz. vol. 213; p. 688.
- Luftbleiche G. m. b. H. (See Müller, Richard, assignor.)
- Luginbuhl, Elias, Norwood, Ohio. Steam-engine. No. 1,132,782; Mar. 23; Gaz. vol. 212; p. 1158.
- Luba, Joseph, assignor of one-half to J. Hrehorsik, Flemington, N. J. Invalid-chair. No. 1,155,588; Oct. 5; Gaz. vol. 219; p. 91.
- Lui, Johann A., et al. (See Lasschuit, Pierre T. A., assignor.)
- Luitwieler, Samuel W., Rochester, N. Y. Motor-propelled fire apparatus. No. 1,152,113; Aug. 31; Gaz. vol. 217; p. 1541.
- Luitwieler, Samuel W., Rochester, N. Y. Combined cut-off and relief valve. No. 1,152,114; Aug. 31; Gaz. vol. 217; p. 1541.
- Lukacher, Leon, Chicago, Ill. Coin-wrapper. No. 1,134,687; Apr. 6; Gaz. vol. 213; p. 220.

Alphabetical list of patentees—Continued.

- Luke, Alden A. (See Simpson and Luke.)
- Lukens, Lewis N., Philadelphia, Pa. Device for spacing and supporting reinforcing-bars in concrete work. No. 1,139,987; May 18; Gaz. vol. 214; p. 871.
- Lukens, William L. (See Stout and Lukens.)
- Lütkä, John. (See Kneiss and Lückö.)
- Lukstat, Roman, Philadelphia, Pa. Toy. No. 1,157,166; Oct. 19; Gaz. vol. 219; p. 698.
- Lulek, John, Cicero, Ill. Mail-bag catching and delivering apparatus. No. 1,142,107; June 8; Gaz. vol. 215; p. 397.
- Lull, John M., Wausau, Wis. Driving mechanism for automobiles and like vehicles. No. 1,146,632; July 13; Gaz. vol. 216; p. 601.
- Lulloff, Ferdinand W., Colby, Wis. Type-writer ribbon-shift. No. 1,151,488; Aug. 24; Gaz. vol. 217; p. 1277.
- Lum, Walter O., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrically-operated switch. No. 1,138,677; May 11; Gaz. vol. 214; p. 372.
- Lumb, Charles F. (See Pattinson, Thomas E., assignor.)
- Lumb, Charles F. (See Ringrose and Stevenson, assignors.)
- Lumb, Ralph G., et al. (See Loring, Benjamin C., assignor.)
- Lumbard, Melville A. (See McCormick and Lumbard.)
- Lumberman's Specialties Company. (See Evans, Charles E., assignor.)
- Lumbers, James H. (See Doust, James C., assignor.)
- Luminous Unit Company. (See Guth, Edwin F., assignor.)
- Lumley, Wilfrid, Conneaut, Ohio, assignor to General Electric Company. Illuminating apparatus. No. 1,156,536; Oct. 12; Gaz. vol. 219; p. 447.
- Lumley, Wilfrid, Conneaut, Ohio, assignor to General Electric Co. Illuminating apparatus. No. 1,156,537; Oct. 12; Gaz. vol. 219; p. 447.
- Lumley, Wilfrid, Conneaut, Ohio, assignor to General Electric Company. Bracket and fixture. No. 1,160,736; Nov. 16; Gaz. vol. 220; p. 906.
- Lummer, George B., Quincy, Ill. Rail-joint. No. 1,153,397; Sept. 14; Gaz. vol. 218; p. 404.
- Lummis, Charles W., Worcester, Mass. Apparatus for casting metal ingots. No. 1,143,215; June 15; Gaz. vol. 215; p. 824.
- Lummus Cotton Gin Company. (See Grimes, Thaddeus S., assignor.)
- Lunsden, Thomas, Gateshead, England. Tool-holder for tool-grinding machines. No. 1,133,651; Mar. 30; Gaz. vol. 212; p. 1506.
- Lund, Andrew M., Auburn, Me., assignor to United Shoe Machinery Company, Paterson, N. J. Last. No. 1,135,033; Apr. 13; Gaz. vol. 213; p. 384.
- Lund, Edward, Ogden, Utah. Rake. No. 1,159,970; Nov. 9; Gaz. vol. 220; p. 583.
- Lund, James B., Chicago, Ill. Carbureter attachment. No. 1,142,824; June 15; Gaz. vol. 215; p. 684.
- Lund, Joel, San Francisco, Cal. Auger. No. 1,139,198; May 11; Gaz. vol. 214; p. 559.
- Lund, John G. (See Goodwin and Lund.)
- Lund, Matthew, assignor to Valley City Machine Works, Grand Rapids, Mich. Guard for grinding-machines. No. 1,123,562; Jan. 5; Gaz. vol. 210; p. 124.
- Lund, Olaf S., Bancroft, Iowa. Self-locking spike and Heplate. No. 1,129,498; Feb. 23; Gaz. vol. 211; p. 1117.
- Lund, Robert, and T. F. Hind, Preston, England. Nut bursting or cracking machine. No. 1,165,107; Dec. 21; Gaz. vol. 221; p. 916.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Manufacture of boots and shoes. No. 1,124,928; Jan. 12; Gaz. vol. 210; p. 650.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Clicking-die. No. 1,124,929; Jan. 12; Gaz. vol. 210; p. 650.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Compressing-machine. No. 1,130,749; Mar. 9; Gaz. vol. 212; p. 351.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Woodworking-machine. No. 1,131,719; Mar. 16; Gaz. vol. 212; p. 719.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon heels. No. 1,135,034; Apr. 13; Gaz. vol. 213; p. 385.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heeling-machine. No. 1,139,199; May 11; Gaz. vol. 214; p. 559.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on heels. No. 1,161,058; Nov. 23; Gaz. vol. 220; p. 1063.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Punching-machine. No. 1,161,059; Nov. 23; Gaz. vol. 220; p. 1061.
- Lundahl, Fred A., Moline, Ill. Baling-machine. No. 1,133,048; Mar. 23; Gaz. vol. 212; p. 1256.
- Lunday, Julia A., Opp, Ala. Envelop. No. 1,164,372; Dec. 14; Gaz. vol. 221; p. 619.
- Lundberg, August J., Weehawken, N. J., assignor to Pacific Company, Inc. Garment-form. No. 1,149,456; Aug. 10; Gaz. vol. 217; p. 448.
- Lundborg, Carl E., and A. J. Hall, Bloomington, Ill. Signal-flag box. No. 1,159,056; Nov. 2; Gaz. vol. 220; p. 223.
- Lundberg, Carl F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,124,483; Jan. 12; Gaz. vol. 210; p. 492.
- Lundberg, Carl F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Card curving and straightening device. No. 1,150,608; Aug. 17; Gaz. vol. 217; p. 920.
- Lundell, Alben E. (See Reeves and Lundell.)
- Lundell, Alben E., assignor to Western Electric Company, New York, N. Y. Substation sender-circuit. No. 1,148,912; Aug. 3; Gaz. vol. 217; p. 152.
- Lundell, Robert, New York, N. Y. Electric regenerative motor and system of control. No. 1,127,464; Feb. 9; Gaz. vol. 211; p. 321.
- Lundergan, Thomas F., Marion, Ohio. Culvert. No. 1,165,425; Dec. 28; Gaz. vol. 221; p. 1065.
- Lundgren, Cornelius. (See Mitchell and Norquist, assignors.)
- Lundgren, Edwin. (See Ostergren, Oscar P., assignor.)
- Lundgren, Jacob, assignor to The Carlson-Wenstrom Manufacturing Company, Incorporated, Philadelphia, Pa. Braiding-machine. No. 1,144,716; June 29; Gaz. vol. 215; p. 1396.
- Lundgren, John, Detroit, Mich. Die for planing metal articles. No. 1,152,826; Sept. 7; Gaz. vol. 218; p. 164.
- Lundgren, Ole, Glen Valley, British Columbia, Canada. Harrow. No. 1,151,888; Aug. 31; Gaz. vol. 217; p. 1463.
- Lundin, Andreas P. (See Broady, Harry W., assignor.)
- Lundin, Andreas P., New York, N. Y. Heat-insulating structure. No. 1,133,299; Mar. 30; Gaz. vol. 212; p. 1379.
- Lundin, Andreas P., Bayside, N. Y., assignor to Welin Marine Equipment Company. Boat. No. 1,140,469; May 25; Gaz. vol. 214; p. 1076.
- Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to Western Electric Company. Telephone-exchange. No. 1,135,121; Apr. 13; Gaz. vol. 213; p. 414.
- Lundquist, Frank A., Ingleside, Ill., assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,146,889; July 20; Gaz. vol. 216; p. 709.
- Lundquist, Frank A., and J. J. Brownrigg, Chicago, Ill., assignors, by mesne assignments, to Western Electric Company. Central-station switching apparatus for automatic telephone systems. No. 1,128,701; Feb. 16; Gaz. vol. 211; p. 801.
- Lunger, Waldo G., assignor to American Shop Equipment Co., Chicago, Ill. Furnace. No. 1,130,306; Mar. 2; Gaz. vol. 212; p. 161.
- Lunkheimer Company, The. (See Aull, Jerome J., assignor.)
- Lunnie, William. (See Button, William N., assignor.)
- Lunnon, Otto W., and E. Harvey, Denver, Colo. Potential-transformer. No. 1,154,866; Sept. 28; Gaz. vol. 218; p. 974.
- Lunsford, Blanton S., Columbus, assignor of one-half to G. W. Roberts, Muscogee county, Ga. Farm-gate. No. 1,133,246; Mar. 23; Gaz. vol. 212; p. 1324.
- Lunt, George, Formby, near Liverpool, England. Treatment of dough. No. 1,143,413; June 15; Gaz. vol. 215; p. 894.
- Luppert, Valentine C., Williamsport, Pa. Stop-securing machine. No. 1,125,574; Jan. 19; Gaz. vol. 210; p. 915.
- Luppino, Joseph, New York, N. Y. Convertible and folding couch and chair. No. 1,145,777; July 6; Gaz. vol. 216; p. 281.
- Luppino, Joseph, New York, assignor to Manhattan Divanette Co., Brooklyn, N. Y. Convertible bed and divan or sofa. No. 1,139,785; May 18; Gaz. vol. 214; p. 799.
- Lupton, Benjamin M., Jr., Jersey City, N. J. Photographic exposure-meter. No. 1,144,142; June 22; Gaz. vol. 215; p. 1170.
- Lupton, George W. (See Hill and Lupton.)
- Lupulytic Process Company. (See Wahl, Robert, assignor.)
- Luria, Adolfo, Chicago, Ill. Litter and collapsible field-cot. No. 1,164,828; Dec. 21; Gaz. vol. 221; p. 818.
- Lusby, Burnice N. (See Greif and Lusby.)
- Luse, Jonathan E., Cisco, Tex. Vehicle seat construction. No. 1,157,880; Oct. 26; Gaz. vol. 219; p. 1011.
- Lush, Ida R., New York, N. Y. Eye-patch. No. 1,161,321; Nov. 23; Gaz. vol. 220; p. 1159.
- Lusk, Eli M., Knox City, Tex. Attachment for seed-planters. (Reissue.) No. 1,136,621; Aug. 17; Gaz. vol. 217; p. 1003.
- Lustenberger, Jacob, St. Joseph, Mo. Washing-machine. No. 1,134,471; Apr. 6; Gaz. vol. 213; p. 142.
- Luten, Daniel B., Indianapolis, Ind. Wedge. No. 1,141,250; June 1; Gaz. vol. 215; p. 56.
- Lutenberger, Mike, Blocton, Ala. Bottle. No. 1,136,250; Apr. 20; Gaz. vol. 213; p. 849.

Alphabetical list of patentees—Continued.

- Luther, Clarence J., assignor to Luther Grinder Manufacturing Company, Milwaukee, Wis. Honing implement for chisels, &c. No. 1,132,663; Mar. 23; Gaz. vol. 212; p. 1113.
- Luther, Della J. B., Eureka, Cal. Hair-form. No. 1,138,494; May 4; Gaz. vol. 214; p. 271.
- Luther, Frederick P., *et al.* (See Greer, Howard, Jr., assignor.)
- Luther Grinder Manufacturing Company. (See Luther, Clarence J., assignor.)
- Luther, William M., Spokane, Wash. Fruit-evaporator. No. 1,132,019; Mar. 16; Gaz. vol. 212; p. 830.
- Luther, William M., Spokane, Wash. Fruit-evaporator. No. 1,132,020; Mar. 16; Gaz. vol. 212; p. 830.
- Luthmers, William J., Olney, Ill. Piano-action flange. No. 1,157,629; Oct. 19; Gaz. vol. 219; p. 857.
- Luthy, Joseph O., San Antonio, Tex. Plate for secondary batteries. No. 1,141,251; June 1; Gaz. vol. 215; p. 56.
- Luthy, Joseph O., assignor of one-half to Y. Hicks, San Antonio, Tex. Storage battery. No. 1,161,398; Nov. 23; Gaz. vol. 220; p. 187.
- Luton, Fred L. (See Seckman, Walter C., assignor.)
- Lutton, William J., Paterson, N. J. Loom. No. 1,139,200; May 11; Gaz. vol. 214; p. 559.
- Lutton, William J., Paterson, N. J. Stop-motion for looms. No. 1,158,945; Nov. 2; Gaz. vol. 220; p. 187.
- Luttrell, Charles W., Bronte, Tex. Fan attachment for sewing-machines. No. 1,125,141; Jan. 19; Gaz. vol. 210; p. 761.
- Luttrell, Charles W., Bronte, Tex. Stalk chopping or cutting roller. No. 1,128,337; Feb. 16; Gaz. vol. 211; p. 676.
- Lutz, Franklin, Ada, assignor of one-half to W. J. Schwenck, Bucyrus, Ohio. Trace-eye. No. 1,131,397; Mar. 9; Gaz. vol. 212; p. 573.
- Lutz, George A., Plainfield, N. J. Primary electric battery. No. 1,161,322; Nov. 23; Gaz. vol. 220; p. 1159.
- Lutz, George A., Cranford, N. J. Primary electric battery. No. 1,163,163; Dec. 7; Gaz. vol. 221; p. 150.
- Lutz, George C., Philadelphia Pa. Barber's chair-back. No. 1,157,992; Oct. 26; Gaz. vol. 219; p. 1050.
- Lutz, Herman P., Johnstown, Nebr. Adjustable wrench. No. 1,143,600; June 15; Gaz. vol. 215; p. 957.
- Lutz, Ignaz A. (See Bailey and Lutz.)
- Lütz, Johann, Bredonney, near Essen-on-the-Ruhr, Germany. Shaft-furnace for coking and gasifying coal. No. 1,164,295; Dec. 14; Gaz. vol. 221; p. 590.
- Lutz, William D. (See Ihlder and Lutz.)
- Lutz, William D., Allendale borough, N. J. Starting device for internal-combustion engines. No. 1,136,688; Apr. 20; Gaz. vol. 213; p. 1005.
- Lutz, William D., Allendale, N. J. Pump. No. 1,141,252; June 1; Gaz. vol. 215; p. 57.
- Lutz, William D., Allendale borough, N. J. Self-starter for internal-combustion engines. No. 1,147,956; July 27; Gaz. vol. 216; p. 1110.
- Lutz, William D., Allendale borough, assignor to Otis Elevator Company, Jersey City, N. J. Electromagnet. No. 1,132,783; Mar. 23; Gaz. vol. 212; p. 1158.
- Lutze, Carl, New York, N. Y. Cutter-head. No. 1,162,792; Dec. 7; Gaz. vol. 221; p. 21.
- Lutze, Carl, assignor to Metall-Industrie Schönebeck Aktien Gesellschaft, Schönebeck-on-the-Elbe, Germany. Coaster-brake. No. 1,125,142; Jan. 19; Gaz. vol. 210; p. 761.
- Lux, Anthony M., *et al.* (See Thompson, William I., assignor.)
- Lux, Fritz, Ludwigshafen-on-the-Rhine, Germany. Sparking plug. No. 1,148,106; July 27; Gaz. vol. 216; p. 1165.
- Lux, Walter J., *et al.* (See Thompson, William I., assignor.)
- Luxmore, William, Chicago, Ill. Flour-sifter. No. 1,152,650; Sept. 7; Gaz. vol. 218; p. 100.
- Luyken, Wilhelm, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Direct-current dynamo-machine. No. 1,139,201; May 11; Gaz. vol. 214; p. 559.
- Luyties, Otto G., Sharon Springs, N. Y. Globe for street-lighting. No. 1,163,353; Dec. 7; Gaz. vol. 221; p. 217.
- Luz, Frederick L. (See Dickerson, Malcolm, assignor.)
- Luzzi, August F., Waco, Tex. Window-shade support. No. 1,145,153; July 6; Gaz. vol. 216; p. 63.
- Lyberg, Axel. (See Olsen and Lyberg.)
- Lyda, Arthur W., New Berlin, Ohio. Shade and curtain fixture. No. 1,128,016; Feb. 9; Gaz. vol. 211; p. 515.
- Lydecker, John G., New York, N. Y. Latch device for holding automobile and other doors in ventilating position. No. 1,151,889; Aug. 31; Gaz. vol. 217; p. 1464.
- Lydon, Coleman C., Minneapolis, Minn. Table-pad. No. 1,143,842; June 22; Gaz. vol. 215; p. 1064.
- Lydon, Coleman C., Minneapolis, Minn. Table-pad. No. 1,154,036; Sept. 21; Gaz. vol. 218; p. 663.
- Lyell, John C. (See Bradshaw and Lyell.)
- Lyhne, Anker S., Bridgeport, Conn. Pocket flash-light. No. 1,160,518; Nov. 16; Gaz. vol. 220; p. 826.
- Lyhne, Anker S., Bridgeport, Conn. Case for pocket flash-lights. No. 1,160,519; Nov. 16; Gaz. vol. 220; p. 828.
- Lykken, Henry G., Grand Forks, N. D. Pneumatic grain-elevator. No. 1,123,335; Jan. 5; Gaz. vol. 210; p. 48.
- Lyle Clay Cleaner Company. (See Lyle, Robert W., assignor.)
- Lyle, Jay. (See Richardson, Albert J., assignor.)
- Lyle, Jesse, assignor of one-third to S. S. Epperson and one-third to H. L. Pritchett, Danville, Va. Bunch-builder attachment. No. 1,149,930; Aug. 10; Gaz. vol. 217; p. 620.
- Lyle, Mervin E., assignor to American Graphophone Company, Bridgeport, Conn. Pressing sound-records. No. 1,152,651; Sept. 7; Gaz. vol. 218; p. 100.
- Lyle, Robert W., South River, N. J., assignor to Burchartz Fireproofing Company, Inc., New York, N. Y. Floor-block for building constructions. No. 1,125,908; Jan. 19; Gaz. vol. 210; p. 1035.
- Lyle, Robert W., South River, N. J., assignor to Lyle Clay Cleaner Company. Machine for separating stones from clay. No. 1,165,523; Dec. 28; Gaz. vol. 221; p. 1098.
- Lyman Gun Sight Corporation, The. (See Barnes, George L., assignor.)
- Lyman Gun Sight Corporation, The. (See Grant, David, assignor.)
- Lyman Gun Sight Corporation, The. (See Windridge, James, assignor.)
- Lyman, Henry J., Newfield, N. J. Automatic regulator and safety appliance for the control of motor-vehicles. No. 1,154,328; Sept. 21; Gaz. vol. 218; p. 763.
- Lynch, Andrew J., North Yakima, Wash. Railway-tie. No. 1,127,788; Feb. 9; Gaz. vol. 211; p. 434.
- Lynch, Charles, Hammond, Ind. Dumping motor-truck. No. 1,157,560; Oct. 19; Gaz. vol. 219; p. 836.
- Lynch, Charley W., Trinity, Tex. Track-cleaner. No. 1,148,392; July 27; Gaz. vol. 216; p. 1267.
- Lynch, Chester L. (See Joslyn and Lynch.)
- Lynch, Daniel. (See Ingraham and Lynch.)
- Lynch, Daniel E., Wichita, Kans. Punch. No. 1,155,361; Oct. 5; Gaz. vol. 219; p. 13.
- Lynch, Daniel E., assignor of one-fourth to C. D. Robbins, one-fourth to P. J. Cronin, and one-fourth to J. J. Lynch, Chicago, Ill. Means for cooling printing-rollers. No. 1,153,398; Sept. 14; Gaz. vol. 218; p. 405.
- Lynch, George E., Chelsea, Mass., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Trolley mechanism. No. 1,138,965; May 11; Gaz. vol. 214; p. 475.
- Lynch, Harry W. (See Pierson and Lynch.)
- Lynch, James J., *et al.* (See Lynch, Daniel E., assignor.)
- Lynch, John M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making dies. No. 1,160,179; Nov. 16; Gaz. vol. 220; p. 708.
- Lynch, Joseph. (See Travis, Albro, assignor.)
- Lynch, Joseph L., McKeesport, Pa. Tie-plate. No. 1,125,854; Jan. 19; Gaz. vol. 210; p. 1015.
- Lynch, Lucy, Chicago, Ill. Skirt-hanger. No. 1,142,719; June 8; Gaz. vol. 215; p. 607.
- Lynch, Matthew J. (See Bartlett, Leonard, assignor.)
- Lynch, Philip, and H. Woehner, Rock Island, Ill. Magnet-charger. No. 1,153,127; Sept. 7; Gaz. vol. 218; p. 269.
- Lynch, Robert L., Campbellsburg, Ky. Package-tie. No. 1,156,791; Oct. 12; Gaz. vol. 219; p. 535.
- Lynch, Robert L., Campbellsburg, Ky. Automobile-tire. No. 1,164,946; Dec. 21; Gaz. vol. 221; p. 859.
- Lynch, Vernon T., Chicago, Ill. Hammer. No. 1,139,303; May 11; Gaz. vol. 214; p. 592.
- Lynch, Warren J., assignor to American Steel Foundries, New York, N. Y. Side-frame cross connection. No. 1,140,049; May 18; Gaz. vol. 214; p. 894.
- Lynch, William S. (See Flowers and Lynch.)
- Lynch, William T. J., assignor of one-half to V. J. Schulteis, Brooklyn, N. Y. Feather-fastener. No. 1,155,428; Oct. 5; Gaz. vol. 219; p. 36.
- Lynde, Frank G., assignor to Lauter Company, Newark, N. J. Crash-bellows for player-pianos. No. 1,158,823; Nov. 2; Gaz. vol. 220; p. 146.
- Lyne, George H., East Orange, N. J. Sanding device. No. 1,135,306; Apr. 13; Gaz. vol. 213; p. 477.
- Lynes, Jackson, Warsaw, Mo. Stovepipe-holder. No. 1,133,983; Mar. 30; Gaz. vol. 212; p. 1619.
- Lynn, David A., St. Louis, Mo. Sash-fastener. No. 1,125,356; Jan. 19; Gaz. vol. 210; p. 839.
- Lynn, Ernest, Beaver Falls, Pa. Making metal reeds for wind instruments. No. 1,133,868; Mar. 30; Gaz. vol. 212; p. 1584.
- Lynn, William F. (See McCleery, James W., assignor.)
- Lyons, Charles D., St. Louis, Mo. Apparatus for supplying paper to printing-presses. No. 1,148,242; July 27; Gaz. vol. 216; p. 1212.
- Lyons, George A., Philadelphia, Pa. Non-skidding attachment for wheel-tires. No. 1,137,506; Apr. 27; Gaz. vol. 213; p. 1336.
- Lyons, George A., Philadelphia, Pa. Wheel-tire grip. No. 1,139,304; May 11; Gaz. vol. 214; p. 592.
- Lyons, George A., assignor to Lyon Non-Skid Company, Philadelphia, Pa. Buffer for motor-vehicles. No. 1,140,909; May 25; Gaz. vol. 214; p. 1229.
- Lyon, Guy A., assignor to Long Manufacturing Company, Detroit, Mich. Hinge construction. No. 1,152,958; Sept. 7; Gaz. vol. 218; p. 213.
- Lyon, Harry, Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for pulling tacks. No. 1,162,245; Nov. 30; Gaz. vol. 220; p. 1527.

Alphabetical list of patentees—Continued.

- Lyon, Harry, assignor to T. Bostock & Sons, Brockton, Mass. Leather-splitting machine. No. 1,164,829; Dec. 21; Gaz. vol. 221; p. 818.
- Lyon & Healy. (See Kirk, Walter I., assignor.)
- Lyon, Howard, assignor to Welsbach Light Company, Gloucester City, N. J. Burner for inverted incandescent gas-lamps. No. 1,142,594; June 8; Gaz. vol. 215; p. 567.
- Lyon, Howard, assignor to Welsbach Light Company, Gloucester City, N. J. Burner-tip. No. 1,154,421; Sept. 21; Gaz. vol. 218; p. 795.
- Lyon, Howard, assignor to Welsbach Light Company, Gloucester City, N. J. Cluster incandescent lamp. No. 1,158,249; Oct. 26; Gaz. vol. 219; p. 1140.
- Lyon, Jesse D., Cincinnati, Ohio. Golf-ball marker. No. 1,139,689; May 18; Gaz. vol. 214; p. 766.
- Lyon, Léon E., Norfolk, Va. Concrete pile. No. 1,123,773; Jan. 5; Gaz. vol. 210; p. 197.
- Lyon Metallic Manufacturing Company. (See Bales, James E., assignor.)
- Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
- Lyon Non-Skid Company. (See Lyon, George A., assignor.)
- Lyon, Ossian G., Akron, Ohio. Seaming-machine. No. 1,136,544; Apr. 20; Gaz. vol. 213; p. 955.
- Lyon, Thomas J., et al. (See Cook, James H., assignor.)
- Lyon, Willard H. (See Stephens, John T., assignor.)
- Lyon, Wilmer A. (See Dresser, Frank A., assignor.)
- Lions-Atlas Company. (See McCarty, Norman, assignor.)
- Lions Atlas Company. (See Sargent, Charles E., assignor.)
- Lions, Charles. (See Loewenberg and Lyons.)
- Lyons, Frank A., Charlotte, N. C. Trousers-stretcher. No. 1,153,128; Sept. 7; Gaz. vol. 218; p. 269.
- Lyons, George R., Sacket Harbor, assignor, by mesne assignments, to P. Hurst, Madison Barracks, N. Y. Separator. No. 1,146,633; July 13; Gaz. vol. 216; p. 601.
- Lyons, Harry C., New York, N. Y. Liquid-dispenser. No. 1,139,129; May 11; Gaz. vol. 214; p. 534.
- Lyons, Irving H., assignor, by mesne assignments, to Wardrobe Box Company, San Francisco, Cal. Garment-receptacle. No. 1,127,049; Feb. 2; Gaz. vol. 211; p. 136.
- Lyons, Irving H., and R. J. Gruenberg, assignors to S. F. Walter, San Francisco, Cal. Suitcase. No. 1,127,366; Feb. 2; Gaz. vol. 211; p. 244.
- Lyons, John S., assignor of one-half to G. T. Brown, Wilkes-Barre, Pa. Automobile tire and rim. No. 1,138,129; May 4; Gaz. vol. 214; p. 145.
- Lyons, Joseph A. (See Manzel and Lyons.)
- Lyons, Levi, et al. (See Buskard, Samuel G., assignor.)
- Lyons, Robert E., Bloomington, Ind. Recovering native platinum metals. No. 1,126,646; Jan. 26; Gaz. vol. 210; p. 1336.
- Lyons, Robert L., Waltham, Mass. Sewing-machine. No. 1,160,423; Nov. 16; Gaz. vol. 220; p. 792.
- Lyons, William F., Kansas City, Mo. Shock-absorber. No. 1,142,825; June 15; Gaz. vol. 215; p. 684.
- Lyrachord Company. (See Breed, George, assignor.)
- Lysinger, Joseph H., Aurora, Nebr. Spring-wheel. No. 1,135,458; Apr. 13; Gaz. vol. 213; p. 530.
- Lysinger, Milton S., Norristown, Pa. Dynamo. No. 1,129,700; Feb. 23; Gaz. vol. 211; p. 1184.
- Lyster, Benton R. and M. J. Whitefield, N. H. Destructive distillation of wood. No. 1,157,316; Oct. 19; Gaz. vol. 219; p. 752.
- Lyster, Frank. (See Linck, Edward, assignor.)
- Lyster, Morton J. (See Lyster, Benton R. and M. J.)
- Lytle, John M., Baltimore, Md. Switch-operating device. No. 1,133,730; Mar. 30; Gaz. vol. 212; p. 1534.
- Lyttle, Bird F. (See Grimes, Josiah, assignor.)
- Lytton, Edward, London, England. Film and like reel mechanism. No. 1,132,369; Mar. 16; Gaz. vol. 212; p. 957.
- M. Garland Company, The. (See Devlin, Henry, assignor.)
- M. Rumely Co. (See Kranich, Frank N. G., assignor.)
- M. Rumely Company. (See Baker, Byron G., assignor.)
- M. Rumely Company. (See Brunner, William T. M., assignor.)
- M. Rumely Company. (See Falk and Andrew, assignors.)
- M. Rumely Company. (See Higgins, William H. C., Jr., assignor.)
- M. Rumely Company. (See Ibriz, Orland L., assignor.)
- M. Rumely Company. (See Whitworth, Charles S., assignor.)
- M. Schulz Company. (See Gustafson, Adolph P., assignor.)
- M. Welte & Sons, Inc. (See Welte, Carl M., assignor.)
- M. A. Donohue & Co. (See Ralph, George H., assignor.)
- M. B. Schenck Company, The. (See Johnson, John A., assignor.)
- M. C. White Company. (See White, Morris C., assignor.)
- M. D. Knowlton Company. (See De Smith, Henry, assignor.)
- M. D. Knowlton Company. (See Feeley, Frank G., assignor.)
- M. D. Knowlton Company. (See Hawkins, Edgar M., assignor.)
- M. D. Knowlton Company. (See Hawkins, Edward M., assignor.)
- M. H. Jester Investment Company, The. (See Jester, Marvin H., assignor.)
- M. J. Bernhard Company. (See Bernhard, Michael H., assignor.)
- M. J. Cuning Company, The. (See Mossman, James, assignor.)
- M. S. Wright Company. (See Wright, Morris S., assignor.)
- M. T. Stevens and Sons Company. (See Stone, George, assignor.)
- Ma Girl, Patrick H., Bloomington, Ill. Furnace. No. 1,163,676; Dec. 14; Gaz. vol. 221; p. 373.
- Maag, Gustav C., New York, N. Y., assignor to Continental Gas Compressing Corporation, Apparatus for obtaining liquid hydrocarbons. No. 1,142,525; June 8; Gaz. vol. 215; p. 544.
- Maage, Alfred E. J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,135,199; Apr. 13; Gaz. vol. 213; p. 441.
- Maanum, Dedrick A., Benson, Minn. Fanning-mill. No. 1,144,368; June 29; Gaz. vol. 215; p. 1278.
- Maas, George H., Milwaukee, Wis. Moistener for cigars and the like. No. 1,135,124; Apr. 13; Gaz. vol. 213; p. 410.
- Maas, George H., Milwaukee, Wis. Cover-wrench for fruit-jars. No. 1,157,632; Oct. 19; Gaz. vol. 219; p. 858.
- Maas, George J., Negaunee, Wis. Adjustable shade or curtain fixture. No. 1,146,890; July 20; Gaz. vol. 216; p. 709.
- Maas, William F., Cincinnati, Ohio, assignor to P. Igoe, Jr., Brooklyn, N. Y. Plant-support. No. 1,146,891; July 20; Gaz. vol. 216; p. 710.
- Mabes, James R., assignor of one-half to R. R. Lee, Alhambra, Okla. Anvil attachment. No. 1,124,158; Jan. 5; Gaz. vol. 210; p. 327.
- Mable, Alexander, Santa Clara, Cal. Dirigible-headlight mechanism. No. 1,150,529; Aug. 17; Gaz. vol. 217; p. 892.
- Mable, Charles H., Maywood, N. J. Clip for fountain-pens, pencils, and the like. No. 1,125,144; Jan. 19; Gaz. vol. 210; p. 762.
- Mable, Judson D., Brooklyn, N. Y. Coupling for sash-weight cords. No. 1,159,852; Nov. 9; Gaz. vol. 220; p. 541.
- Mac-it Parts Company. (See Warren, Henry E., assignor.)
- MacAdam, Ena, Ottawa, Ontario, Canada. Combination-shovel. No. 1,148,180; July 27; Gaz. vol. 216; p. 1192.
- MacAndrews & Forbes Company. (See Geddes, William L., assignor.)
- MacAndrews & Forbes Company. (See Walker, William W., assignor.)
- MacArthur, Charles J., Newark, N. J. Matrix for the production of printing-plates. No. 1,128,022; Feb. 9; Gaz. vol. 211; p. 517.
- MacAusland, Earle R., Boston, Mass. Grease-cup. No. 1,155,316; Sept. 28; Gaz. vol. 218; p. 1127.
- MacCallum, Alonzo R., and M. H. Eggleston, Spokane, Wash., assignors to Interstate Silo Company, Silo. No. 1,130,307; Mar. 2; Gaz. vol. 212; p. 161.
- MacCaskey Register Company, The. (See Vick, Rollo M., assignor.)
- MacDonald, Bernard, Los Angeles, Cal. Apparatus for separating minerals by flotation. No. 1,134,690; Apr. 6; Gaz. vol. 213; p. 221.
- MacDonald, Bernard, South Pasadena, Cal. Apparatus for treating ores. No. 1,139,428; May 11; Gaz. vol. 214; p. 638.
- MacDonald, Bernard, South Pasadena, Cal. Apparatus for treating ore-pulp. No. 1,163,097; Dec. 7; Gaz. vol. 221; p. 126.
- MacDonald, Frank C., administrator. (See MacDonald, Joseph D.)
- MacDonald, Joseph D., deceased, Butte, Mont.; F. C. MacDonald, administrator. Bit. No. 1,136,545; Apr. 20; Gaz. vol. 213; p. 955.
- MacDonald, Joseph H. (See Knaak, Frank J. C. F., assignor.)
- MacDonald, Karl, Swampscott, Mass. Spray-nozzle. No. 1,153,805; Sept. 14; Gaz. vol. 218; p. 548.
- MacDonald, Ralph H., Centralia, Wash. Gasolene-vaporizer. No. 1,128,470; Feb. 16; Gaz. vol. 211; p. 722.
- MacDonald, Thomas J., Yonkers, N. Y. Hat flanging and finishing machine. No. 1,165,195; Dec. 21; Gaz. vol. 221; p. 947.
- MacDonald, William W., Somerville, Mass. Former for self-closing pouches. No. 1,156,847; Oct. 12; Gaz. vol. 219; p. 556.
- MacDowell, Charles H., Chicago, Ill., assignor to The Mineral Products Company, New York, N. Y. Treatment of alunite and the like. No. 1,136,549; Apr. 20; Gaz. vol. 213; p. 956.
- MacDowney, Silas C., Chicago, Ill. Joint connection. No. 1,165,990; Dec. 28; Gaz. vol. 221; p. 1262.
- MacFarland, Helon B., Chicago, Ill. Shock-recording device. No. 1,125,145; Jan. 19; Gaz. vol. 210; p. 762.
- MacFarland, Helon B., Chicago, Ill. Draft-inducing means for locomotives and the like. No. 1,125,361; Jan. 19; Gaz. vol. 210; p. 841.
- MacFarland, Helon B., Chicago, Ill., and R. J. Shoemaker, Topeka, Kans., said Shoemaker assignor to said MacFarland, Composite insulating material. No. 1,139,305; May 11; Gaz. vol. 214; p. 593.

Alphabetical list of patentees—Continued.

- MacFarland, Helon B., Chicago, Ill., and R. J. Shoemaker, Topeka, Kans.; said Shoemaker assignor to said MacFarland. Insulating material. No. 1,146,189; July 13; Gaz. vol. 216; p. 445.
- MacFarland, Helon B., Chicago, Ill., and R. J. Shoemaker, Topeka, Kans.; said Shoemaker assignor to said MacFarland. Producing insulating material. No. 1,146,190; July 13; Gaz. vol. 216; p. 445.
- MacFarland, William J., Boston, Mass. Innersole for shoes. No. 1,128,994; Feb. 16; Gaz. vol. 211; p. 905.
- MacFarland, William J., Boston, Mass. Last. No. 1,159,693; Nov. 9; Gaz. vol. 220; p. 481.
- MacFarlane, Oliver P. (See Arcus, Charles R., assignor.)
- MacGlashan, William, assignor to The Studebaker Corporation, South Bend, Ind. Control mechanism. No. 1,125,575; Jan. 19; Gaz. vol. 210; p. 915.
- MacGregor, Peter G., New York, N. Y., assignor to P. G. MacGregor, E. M. Davidson, and P. L. Wilbur. Contact oiler. No. 1,127,367; Feb. 2; Gaz. vol. 211; p. 244.
- MacGregor, Peter G., New York, N. Y., assignor to P. G. MacGregor, E. M. Davidson, and P. L. Wilbur. Contact-oiler. No. 1,130,750; Mar. 9; Gaz. vol. 212; p. 351.
- MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Valve. No. 1,142,343; June 8; Gaz. vol. 215; p. 479.
- MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Automatic fire-extinguisher. No. 1,151,207; Aug. 24; Gaz. vol. 217; p. 1184.
- MacGregor, Wallace F., and A. C. Foster, assignors to J. I. Case Threshing Machine Company, Racine, Wis. Straw-bruiser. No. 1,154,262; Sept. 21; Gaz. vol. 218; p. 740.
- MacIndoe, John F. (See Lee and MacIndoe.)
- MacIndoe, John F., assignor to H. Kennedy, Philadelphia, Pa. Grease-cup. No. 1,159,517; Nov. 9; Gaz. vol. 220; p. 418.
- MacIndoe, John F., assignor, by mesne assignments, to said MacIndoe and J. F. Donahue, Philadelphia, Pa. Bottle-closure. No. 1,153,236; Sept. 14; Gaz. vol. 218; p. 345.
- MacKay, John F., Bordentown, N. J. Hot-water heater for brooders and incubators. No. 1,161,494; Nov. 23; Gaz. vol. 220; p. 1219.
- MacKay, John F., Bordentown, N. J. Brooder. No. 1,161,495; Nov. 23; Gaz. vol. 220; p. 1220.
- MacKay, John F., Bordentown, N. J. Brooder. No. 1,163,936; Dec. 14; Gaz. vol. 221; p. 466.
- MacKay, Vasil, Boston, Mass. Furnace. No. 1,151,208; Aug. 24; Gaz. vol. 217; p. 1184.
- MacKenzie, Alexander J., Buffalo, N. Y. Cord-fastener. No. 1,118,847; Aug. 3; Gaz. vol. 217; p. 131.
- MacKenzie, Augustus W., Cheyenne, Wyo. Door-lock. No. 1,146,086; July 13; Gaz. vol. 216; p. 410.
- MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for preparing lasted boots and shoes for the sewing operation. No. 1,126,244; Jan. 26; Gaz. vol. 210; p. 1191.
- MacKenzie, John, Middlesborough, England. Manufacture of sulfate of ammonia and in the purification of coal gas. No. 1,155,753; Oct. 5; Gaz. vol. 219; p. 148.
- MacKinnon, William C., West Orange, N. J. Measuring instrument. No. 1,160,030; Nov. 16; Gaz. vol. 220; p. 867.
- MacLachlan, John C., Chicago, Ill. Destecating apparatus. No. 1,138,769; May 11; Gaz. vol. 214; p. 405.
- MacLaren, George. (See Munn and MacLaren.)
- MacLachlan, James H., New York, N. Y. Locomotive-drafter. No. 1,160,305; Nov. 16; Gaz. vol. 220; p. 751.
- MacLean, Archibald, New York, N. Y. Lamp-cord reel. No. 1,139,554; May 18; Gaz. vol. 214; p. 717.
- MacLean, Fredrick F., Syracuse, N. Y. Headlight. No. 1,130,602; Mar. 2; Gaz. vol. 212; p. 57.
- MacLean, Fredrick F., Syracuse, N. Y. Headlight. No. 1,146,268; July 13; Gaz. vol. 216; p. 473.
- MacLean, John P., Hamilton, New South Wales, Australia. Shock-absorber for the handle-bars of motorcycles. No. 1,156,420; Oct. 12; Gaz. vol. 219; p. 407.
- MacLennan, Malcolm J., Buffalo, N. Y., assignor to A. V. Boggs, Toronto, Ontario, Canada. Mixing-machine. No. 1,140,385; May 25; Gaz. vol. 214; p. 1045.
- MacLeod, A. L. (See Bailey, Robert L., assignor.)
- MacLeod, Alexander, Waverley, assignor of one-half to J. L. Damon, Jr., Brookline, Mass. Elevator-gate operating and locking mechanism. No. 1,160,520; Nov. 16; Gaz. vol. 220; p. 826.
- MacMillan, John A., Dayton, Ohio. Vehicle-tire. No. 1,164,834; Dec. 21; Gaz. vol. 221; p. 820.
- MacNicol, Donald. (See Cockburn and MacNicol.)
- MacNitt, Barry, South Bethlehem, Pa. Vaporizer for internal-combustion engines. No. 1,152,744; Sept. 7; Gaz. vol. 218; p. 133.
- MacPherson, John G., Philadelphia, assignor to J. C. Baird, Washington, Pa. Clutch mechanism. No. 1,131,401; Mar. 9; Gaz. vol. 212; p. 575.
- MacPherson, John G., Philadelphia, assignor of one-third to M. F. Metcalf, Pittsburgh, and two-thirds to J. C. Baird, Washington, Pa. Change-speed mechanism for motor-vehicles and the like. No. 1,160,922; Nov. 16; Gaz. vol. 220; p. 970.
- MacPherson, Kenneth W., Palmyra, N. Y. Ink-eradicator. No. 1,153,807; Sept. 14; Gaz. vol. 218; p. 548.
- MacQuesten, William D., Mount Vernon, N. Y., assignor to The Arora Company, Inc., Washing. machine. No. 1,127,473; Feb. 9; Gaz. vol. 211; p. 325.
- Macrae, John G., assignor of one-sixth to G. H. Meyer and one-sixth to W. M. Dickinson, Eagle, Colo. Device for handling cuspidors. No. 1,138,131; May 4; Gaz. vol. 214; p. 145.
- MacVane, James, assignor of one-half to W. B. Carpenter, Providence, R. I. Gage and holder for lock-strikes. No. 1,127,055; Feb. 2; Gaz. vol. 211; p. 138.
- MacVane, James, assignor of one-half to W. B. Carpenter, Providence, R. I. Ice-creeper. No. 1,154,646; Sept. 28; Gaz. vol. 218; p. 901.
- MacVicar, Frank, Syracuse, N. Y. Axle-mount. No. 1,154,143; Sept. 21; Gaz. vol. 218; p. 699.
- Macallen Company. (See Wirt, Charles, assignor.)
- Macan, William A., Ridley Park, assignor to Ehret Magnesia Manufacturing Company, Valley Forge, Pa. Pipe-covering. No. 1,134,475; Apr. 6; Gaz. vol. 213; p. 143.
- Macartney, Arthur C., assignor to Empire Cream Separator Company, Bloomfield, N. J. Teat-cup. No. 1,146,584; July 13; Gaz. vol. 216; p. 586.
- Macaulay, George, Brooklyn, N. Y. Hand-bag. No. 1,164,833; Dec. 21; Gaz. vol. 221; p. 820.
- Macaulay, James, Lynn, Mass. Life-preserver. No. 1,138,495; May 4; Gaz. vol. 214; p. 272.
- Maculey, Alvan, St. Louis, Mo., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,148,110; July 27; Gaz. vol. 216; p. 1167.
- Macbeth, Charles E., and F. C. Stiening, assignors to The Long & Allstatter Company, Hamilton, Ohio. Punching and shearing machine. No. 1,164,656; Dec. 21; Gaz. vol. 221; p. 757.
- Macbeth, Edgar R., Brazil, Ind. Atomizer. No. 1,134,689; Apr. 6; Gaz. vol. 213; p. 221.
- Macbeth-Evans Company. (See Heupel, Herman, assignor.)
- Macbeth-Evans Glass Company. (See Schnellbach, Harry A., assignor.)
- Macbeth, George, Liverpool, England. Cash-register. No. 1,130,182; Mar. 2; Gaz. vol. 212; p. 119.
- Maccafferri, Gaetano, Zola Predosa, near Bologna, Italy. Defense for the banks and the bed of watercourses. No. 1,162,499; Nov. 30; Gaz. vol. 220; p. 1614.
- Maccafferri, Gaetano, Zola Predosa, near Bologna, Italy. Gable for protective waterworks. No. 1,165,194; Dec. 21; Gaz. vol. 221; p. 946.
- Maccoun, Andrew E. (See Ungerm and Maccoun.)
- Macdaniel, Frances, New York, N. Y. Foldable wardrobe. No. 1,151,491; Aug. 24; Gaz. vol. 217; p. 1278.
- Macdonald, Alexander F., Schenectady, N. Y., assignor to General Electric Company. Pump for internal-combustion engines. No. 1,128,023; Feb. 9; Gaz. vol. 211; p. 518.
- Macdonald, Alexander G., Tisbury, England. Motor-car body. No. 1,147,333; July 20; Gaz. vol. 216; p. 863.
- Macdonald, Allan K., Hamilton, Ontario, Canada. Railway-crossing-gate lamp. No. 1,160,303; Nov. 16; Gaz. vol. 220; p. 751.
- Macdonald, Harry P., Montclair, assignor to The Sneed & Co. Iron Works, Jersey City, N. J. Sand-handling apparatus. No. 1,127,471; Feb. 9; Gaz. vol. 211; p. 324.
- Macdonald, Harry P., Montclair, N. J., assignor of one-half to U. Sneed, New York, N. Y. Vaporizing device. No. 1,147,416; July 20; Gaz. vol. 216; p. 895.
- Macdonald, Harry P., Montclair, and H. C. Parker, Elizabeth, N. J., assignors to The Sneed & Co. Iron Works, Jersey City, N. J. Sand-handling machine. No. 1,127,472; Feb. 9; Gaz. vol. 211; p. 325.
- Macdonald, Hugh, deceased, Detroit, Mich.; L. B. West and J. W. Reid, executors. Faucet. No. 1,138,604; May 4; Gaz. vol. 214; p. 307.
- Macdonald, John A., Boston, Mass. Amalgamator. No. 1,128,024; Feb. 9; Gaz. vol. 211; p. 518.
- Macdonald, John N., Hartford, Conn. Chain-repairing implement. (Reissue.) No. 13,957; Aug. 3; Gaz. vol. 217; p. 241.
- Macdonald, John W. F., Boston, Mass. Furnace-grate. No. 1,130,308; Mar. 2; Gaz. vol. 212; p. 162.
- Macdonald, Margaret B., Chicago, Ill. Display and dispensing package. No. 1,127,053; Feb. 2; Gaz. vol. 211; p. 137.
- Macdonald, Thomas A., Paterson, N. J. Propeller. No. 1,135,829; Apr. 13; Gaz. vol. 213; p. 662.
- Macdonald, Thomas A., Paterson, N. J. Truss. No. 1,140,754; May 25; Gaz. vol. 214; p. 1173.
- Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Ejector or throw-off for sound-records. No. 1,152,529; Sept. 7; Gaz. vol. 218; p. 55.
- Macdonald, William, Sandford Dene, Saskatchewan, Canada. Nut-lock. No. 1,148,848; Aug. 3; Gaz. vol. 217; p. 131.
- Macdonald, William, Jr., Alameda, assignor to United Engineering Works, San Francisco, Cal. Packing for crank-cases of internal-combustion engines. No. 1,161,492; Nov. 23; Gaz. vol. 220; p. 1219.
- Macdonald, William A., Needham Heights, Mass. Pocket-book protector. No. 1,161,782; Nov. 23; Gaz. vol. 220; p. 1318.

Alphabetical list of patentees—Continued.

- Mace, Arthur T., East Cleveland, Ohio. Sewing-machine. No. 1,130,309; Mar. 2; Gaz. vol. 212; p. 162.
- Mace, Henry B., Erdenheim, Pa. Tool-holder. No. 1,128,165; Feb. 9; Gaz. vol. 211; p. 567.
- Macé, Jules, Grasse, France. Toy sail-boat. No. 1,136,476; Apr. 20; Gaz. vol. 213; p. 931.
- Mace, Margaret R., Philadelphia, Pa. Parcel-post envelop. No. 1,139,552; May 18; Gaz. vol. 214; p. 717.
- Mace, Margaret R., Philadelphia, Pa. Envelop-tag. No. 1,139,553; May 18; Gaz. vol. 214; p. 717.
- Mace, William W., assignor of one-half to H. C. Lewis, Portland, Ore. Sanitary-drinking-cup attachment. No. 1,133,871; Mar. 30; Gaz. vol. 212; p. 1585.
- Macey, Frank, Govans, Md. Horseshoe-calk. No. 1,154,330; Sept. 21; Gaz. vol. 218; p. 764.
- Macfadden, Bernarr, London, England. Railway system. No. 1,133,734; Mar. 30; Gaz. vol. 212; p. 1536.
- Macfarlane, F. W. (See Wolf, Fred W., assignor.)
- Macfarlane, George T., Pinner, and M. Roley, Slough, assignors to G. D. Peters and Company Limited, London; G. T. Macfarlane, Pinner, and M. Roley, Slough, Bucks, England. Ship and like winch arrangement. No. 1,139,131; May 11; Gaz. vol. 214; p. 535.
- Macfarren, Walter W. (See Kuhn and Macfarren.)
- Macfarren, Walter W., Pittsburgh, Pa. Cooling means for gas-engine cylinders. No. 1,161,493; Nov. 23; Gaz. vol. 220; p. 1219.
- Macfarren, Walter W., Pittsburgh, Pa., assignor, by mesne assignments, to M. Murray, Mount Savage, Md. Automobile-axle. No. 1,160,304; Nov. 16; Gaz. vol. 220; p. 751.
- Macfalske, Florentine J., assignor to American Ferro-litride Corporation, Plattsburg, N. Y. Smelting iron ore. No. 1,148,700; Aug. 3; Gaz. vol. 217; p. 78.
- Macfamer, Isaac A., Wisconsin, assignor of one-half to A. R. and A. Budd, Williamstown, Pa. Brake mechanism. No. 1,159,240; Nov. 2; Gaz. vol. 220; p. 280.
- Machek, Johan, Waukegan, Ill. Clutch. No. 1,161,943; Nov. 30; Gaz. vol. 220; p. 1422.
- Machen, Albert S., Norfolk, Va. Advertising-cabinet. No. 1,137,072; Apr. 27; Gaz. vol. 213; p. 1179.
- Machenbach, Richard, Schlebusch, near Cologne, Germany. Projectile for air vessels. No. 1,142,827; June 15; Gaz. vol. 215; p. 685.
- Machenbach, Richard, Berlin, assignor to Sprengstoff A.-G. Carbonit, Hamburg, Germany. Projectile. No. 1,165,525; Dec. 28; Gaz. vol. 221; p. 1099.
- Machin, Hugo H., and G. Golden, Louisville, Colo. Level. No. 1,159,516; Nov. 9; Gaz. vol. 220; p. 418.
- Machine Parts Company, The. (See Smith, James C., assignor.)
- Machinery & Specialty Company, The. (See Faist, William O., assignor.)
- Macilet, Adolph W., Elizabeth, N. J. Case-hardening. No. 1,152,959; Sept. 7; Gaz. vol. 218; p. 213.
- Macilett, Robert H., New York, N. Y. X-ray tube. No. 1,150,530; Aug. 17; Gaz. vol. 217; p. 892.
- Macintosh, William R., Buffalo, N. Y. Tag-fastener. No. 1,156,489; Oct. 12; Gaz. vol. 219; p. 431.
- Mack, Albert S., Klamath Falls, Ore. Electrical heater. No. 1,141,197; June 1; Gaz. vol. 215; p. 38.
- Mack, Ernest U., Florence, S. C. Rotary steam-engine. No. 1,133,988; Mar. 30; Gaz. vol. 212; p. 1621.
- Mack, Ernest U., Florence, S. C. Air-brake device. No. 1,153,806; Sept. 14; Gaz. vol. 218; p. 548.
- Mack, Ernest U., Florence, S. C. Automatic retaining-valve for air-brake systems. No. 1,161,712; Nov. 23; Gaz. vol. 220; p. 1294.
- Mack, F. D., et al. (See Kaufman, Alfred, assignor.)
- Mack, Frederick H. (See Mack, Patrick H. and F. H.)
- Mack, John M., Allentown, Pa., assignor to International Motor Company, Wilmington, Del. Grip-tread for vehicle-tires. No. 1,128,340; Feb. 16; Gaz. vol. 211; p. 677.
- Mack, Patrick H. and F. H., Bradford, assignors to Oil Well Supply Company, Pittsburgh, Pa. Well-packer. No. 1,145,155; July 6; Gaz. vol. 216; p. 63.
- Mack, Richard, Berlin, Germany, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric seam-welding apparatus. No. 1,135,539; Apr. 13; Gaz. vol. 213; p. 559.
- Mack, Richard, Berlin, Germany, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric welding. No. 1,143,220; June 15; Gaz. vol. 215; p. 826.
- Mack, Rudolph A., et al. (See Barker, Cloyd K., assignor.)
- Mackay, George M. J., Schenectady, N. Y., assignor to General Electric Company. Incandescent lamp. No. 1,157,995; Oct. 26; Gaz. vol. 219; p. 1050.
- Mackay, William A., North Sydney, Nova Scotia, Canada. Safety device for aviators. No. 1,134,884; Apr. 6; Gaz. vol. 213; p. 287.
- Mackensen, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Sighting instrument for aerial use. No. 1,143,719; June 22; Gaz. vol. 215; p. 1022.
- Mackensen, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Sighting device. No. 1,160,184; Nov. 16; Gaz. vol. 220; p. 710.
- Mackey, Frank, Newark, Ohio. Spring-frame for motor-cycles. No. 1,142,344; June 8; Gaz. vol. 215; p. 479.
- Mackey, Henry. (See Gage, Joseph J., assignor.)
- Mackey, John B., Lathrop, Pa. Cartridge. No. 1,149,387; Aug. 10; Gaz. vol. 217; p. 424.
- Mackin Bottle Machine Co. (See Mackin, Francis J., assignor.)
- Mackin, Francis J., San Francisco, Cal., assignor to Mackin Bottle Machine Co., Reno, Nev. Making narrow-neck bottles. No. 1,148,701; Aug. 3; Gaz. vol. 217; p. 78.
- Mackin, John, Brooklyn, N. Y. Bed. No. 1,131,147; Mar. 9; Gaz. vol. 212; p. 487.
- Mackin, John F., Philadelphia, Pa., assignor, by mesne assignments, to L. Maxwell, Cincinnati, Ohio. Revolving mechanism for musical instruments. No. 1,154,189; Sept. 21; Gaz. vol. 218; p. 714.
- Mackintosh, Edward D., assignor of one-half to S. S. Hepworth Company, New York, N. Y. Centrifugal-machine. No. 1,133,811; Mar. 30; Gaz. vol. 212; p. 1564.
- Mackintosh, Hemphill & Co. (See Fawell, Joseph E., assignor.)
- Mackirdy, Charles, et al. (See Hammond, John W. and P. M., assignors.)
- Macklem, John J., Hoquiam, Wash. Scaffold-support. No. 1,129,410; Feb. 23; Gaz. vol. 211; p. 1086.
- Macklem, John J., Hoquiam, Wash. Scaffold-bracket. No. 1,129,218; Feb. 23; Gaz. vol. 211; p. 1018.
- Macklin, Harry J. (See Beadman and Macklin.)
- Macklin, Jesse W., Stuart, Iowa. Osteopathic operating-table. No. 1,143,981; June 22; Gaz. vol. 215; p. 1111.
- Macklin, Willmot F., Appleton, Wis. Armored tire. No. 1,165,888; Dec. 28; Gaz. vol. 221; p. 1226.
- Macklind, William R., assignor to G. A. Martin, trustee, Cleveland, Ohio. Mechanism for feeding pulps. No. 1,154,190; Sept. 21; Gaz. vol. 218; p. 714.
- MacLaren, James G., Harrison, N. Y., assignor to The Lamson Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,133,812; Mar. 30; Gaz. vol. 212; p. 1564.
- MacLaurin, Robert, Stirling, Scotland. Manufacture of various products from bituminous fuel. No. 1,130,001; Mar. 2; Gaz. vol. 212; p. 57.
- MacLaurin, Robert, Stirling, Scotland. Gas-scrubber. No. 1,158,066; Oct. 26; Gaz. vol. 219; p. 1076.
- Macleod, Eldon, et al., trustees. (See Schwartz, Herman M., assignor.)
- Macleod, Walter. (See Caven, Walter L., assignor.)
- Macloskie, George, Schenectady, N. Y., assignor to General Electric Company. Automatic train-line coupling. No. 1,164,298; Dec. 14; Gaz. vol. 221; p. 591.
- Macmillan, Charles H., Limerick, Me. Regulating device for regenerative furnaces. No. 1,166,969; Dec. 28; Gaz. vol. 221; p. 1288.
- Macnab and Roberts. (See Jones, George W., assignor.)
- Macnaughtan, James, assignor to Package Confectionery Company, Boston, Mass. Display and dispensing receptacle. No. 1,127,054; Feb. 2; Gaz. vol. 211; p. 138.
- Macnaughtan, William, Brookline, Mass., assignor to Package Confectionery Company. Dumping-machine. No. 1,148,244; July 27; Gaz. vol. 216; p. 1213.
- Macnaughton-Jones, Henry M., Hampstead, London, England. Adjustable support or bracket for lamps, shades, mirrors, or the like. No. 1,140,051; May 18; Gaz. vol. 214; p. 894.
- Macneill, Martin B., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Balanced centrifugal pump. No. 1,157,240; Oct. 19; Gaz. vol. 219; p. 725.
- Macnisch, Charles, Washington, D. C. Treating lime materials. No. 1,151,701; Aug. 31; Gaz. vol. 217; p. 1396.
- Macneil, Arnold N., Melbourne, Victoria, Australia. Apparatus for obtaining oils, spirits, and gases from organic or other materials or substances. No. 1,165,889; Dec. 28; Gaz. vol. 221; p. 1226.
- Maenish, Ralph B., St. Louis, Mo. Circuit-breaker. No. 1,139,789; May 18; Gaz. vol. 214; p. 800.
- Macomber, Dorothea F., administratrix. (See Macomber, Leonard.)
- Macomber, Herbert H., assignor to Flint & Walling Manufacturing Company, Kendallville, Ind. Windmotor. No. 1,148,519; Aug. 3; Gaz. vol. 217; p. 13.
- Macomber, Leonard, deceased, Boston, Mass.; D. F. Macomber, administratrix. Finger-nail buffer. No. 1,152,330; Aug. 31; Gaz. vol. 217; p. 1615.
- Macomber, Lynn W., assignor to Alsteel Manufacturing Company, Battle Creek, Mich. Baling-press. No. 1,125,362; Jan. 19; Gaz. vol. 210; p. 842.
- Macomber, Lynn W., assignor to Alsteel Manufacturing Company, Battle Creek, Mich. Baling-press. No. 1,142,188; June 8; Gaz. vol. 215; p. 424.
- Macomber, Samuel M., Stockton, Cal. Sound-modifier. No. 1,132,722; Mar. 23; Gaz. vol. 212; p. 1137.
- Macomber & Whyte Rope Company. (See Granger, John A., assignor.)
- Macomber, William I., Providence, R. I., assignor to United States Cartridge Company. Artillery percussion-primer-closing disk. No. 1,163,937; Dec. 14; Gaz. vol. 221; p. 467.
- Macphail, James, Davenport, Iowa, assignor, by mesne assignments, to Deere & Company, Moline, Ill. Tooth-holder for sulky hay-rakes. No. 1,126,813; Feb. 2; Gaz. vol. 211; p. 53.
- Macphail, James, Davenport, Iowa, assignor, by mesne assignments, to Deere & Company, Moline, Ill. Rake-tooth. No. 1,147,741; July 27; Gaz. vol. 216; p. 1035.

Alphabetical list of patentees—Continued.

- Macy, Nelson. (See Strong and Macy.)
- Madaler, Ferdinand von, West Drayton, assignor to The Rotary Photographic Company, Limited, London, England. Opticopictorial apparatus. No. 1,139,241; May 11; Gaz. vol. 214; p. 571.
- Madden, Albert F., Newark, N. J. Motor-driven phonograph. No. 1,127,056; Feb. 2; Gaz. vol. 211; p. 138.
- Madden, Albert F., Newark, N. J. Repeating phonograph. No. 1,144,219; June 22; Gaz. vol. 215; p. 1198.
- Madden, Armand S., Chicago, Ill. Garment-supporting device. No. 1,124,771; Jan. 12; Gaz. vol. 210; p. 595.
- Madden, Edward J., Detroit, Mich. Shaft-coupling. No. 1,146,727; July 13; Gaz. vol. 216; p. 632.
- Madden, Edward J., Bridgeport, Conn. Letter-stamping machine. No. 1,155,591; Oct. 5; Gaz. vol. 219; p. 92.
- Madden, Edward J., assignor to The Hawthorne Manufacturing Company, Inc., Bridgeport, Conn. Clamping device. No. 1,152,530; Sept. 7; Gaz. vol. 218; p. 56.
- Madden, Edward J., assignor to The Hawthorne Manufacturing Company, Inc., Bridgeport, Conn. Adjustable support. No. 1,164,538; Dec. 14; Gaz. vol. 221; p. 676.
- Madden, Ernest L. (See Abhey and Madden.)
- Madden, Frank J. (See Earle and Madden.)
- Madden, Harry D., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Glass-cutting machine. No. 1,123,336; Jan. 5; Gaz. vol. 210; p. 48.
- Madden, Harry D., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Machine for making arbors for incandescent lamps. No. 1,159,853; Nov. 9; Gaz. vol. 220; p. 541.
- Madden, Patrick J., Chicago, Ill. Urinal. No. 1,162,500; Nov. 30; Gaz. vol. 220; p. 1614.
- Maddox, Edgar L., Tulsa, Okla. Oil-tank. No. 1,165,011; Dec. 21; Gaz. vol. 221; p. 881.
- Maddox, Fred A., et al. (See Orcutt, Edward L.)
- Maddox, Thomas H. (See Neel, Allen A. P., assignor.)
- Maddy, James H., New York, N. Y., and B. H. Schubert, Weebawken, N. J., assignors to The Lohmann Company, New York, N. Y. Forming a protective metal coating upon metallic articles. No. 1,161,944; Nov. 30; Gaz. vol. 220; p. 1423.
- Madell, Frederick J., Newark, N. J. Adjustable clamping device. No. 1,130,831; Mar. 9; Gaz. vol. 212; p. 378.
- Madigan, John W., assignor of one-half to H. Goodwin, Vanderbilt, Pa. Joist-notcher. No. 1,149,663; Aug. 10; Gaz. vol. 217; p. 525.
- Madigan Manufacturing Company. (See Madigan, Thomas J., assignor.)
- Madigan, Thomas J., assignor to Madigan Manufacturing Company, Inc., New York, N. Y. Coupling. No. 1,126,056; Jan. 26; Gaz. vol. 210; p. 1120.
- Madill, John, Port Arthur, Ontario, Canada. Rock-grab. No. 1,129,356; Feb. 23; Gaz. vol. 211; p. 1067.
- Madison Novelty Co., The. (See Pangborn, Leo D., assignor.)
- Madsen, Jorgen, Perth Amboy, N. J. Combined tea-kettle and signal. No. 1,161,713; Nov. 23; Gaz. vol. 220; p. 1294.
- Madsen, Mads H., Kimballton, Iowa. Corn-planter. No. 1,155,592; Oct. 5; Gaz. vol. 219; p. 92.
- Madsen, Martin, et al. (See Potts, Thomas E., assignor.)
- Madsen, Peter, et al. (See Potts, Thomas E., assignor.)
- Madsen, Sern, assignor to Curtis Brothers and Company, Clinton, Iowa. Sash-making machine. No. 1,151,892; Aug. 31; Gaz. vol. 217; p. 1465.
- Madsen, Soren, New York, N. Y. Automatic vending apparatus. No. 1,137,648; Apr. 27; Gaz. vol. 213; p. 1383.
- Madson, Andrew, Salt Lake City, Utah. Tenoning-head. No. 1,130,913; Mar. 9; Gaz. vol. 212; p. 407.
- Maechler, Walter, assignor, by mesne assignments, to Smallbone Manufacturing Company, Chicago, Ill. Buttonhole attachment for sewing-machines. No. 1,157,791; Oct. 26; Gaz. vol. 219; p. 979.
- Maegly, Frederick C. (See Carter, James H., assignor.)
- Maertens, Emile, et al. (See Clark, Arthur I., assignor.)
- Maetrich, Charles, Brooklyn, N. Y. Shoe. No. 1,145,913; July 13; Gaz. vol. 216; p. 348.
- Mafam Motor-Apparate G. m. b. H. (See Fischer, Richard, assignor.)
- Magarrell, Virgil P., Tillamook, Oreg. Piston-ring. No. 1,151,112; Aug. 24; Gaz. vol. 217; p. 1150.
- Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Gas-regulator. No. 1,163,249; Dec. 7; Gaz. vol. 221; p. 181.
- Magee, German R. (See Fleck and Magee.)
- Magee, James, 2d. (See McCollum, Alfred F., assignor.)
- Magee, John, assignor to Diamond Power Specialty Company, Detroit, Mich. Blower for water-tube boilers. No. 1,150,138; Aug. 17; Gaz. vol. 217; p. 755.
- Magee, John, assignor to Diamond Power Specialty Company, Detroit, Mich. Blower unit for boilers. No. 1,155,499; Oct. 5; Gaz. vol. 219; p. 62.
- Magee, John, assignor to Diamond Power Specialty Company, Detroit, Mich. Soot-cleaner for water-tube boilers. No. 1,160,306; Nov. 16; Gaz. vol. 220; p. 752.
- Magee, John, assignor to Diamond Power Specialty Company, Detroit, Mich. Soot-blower for water-tube boilers. No. 1,162,088; Nov. 30; Gaz. vol. 220; p. 1473.
- Magee, John, assignor to Diamond Power Specialty Company, Detroit, Mich. Blower for water-tube boilers. No. 1,162,089; Nov. 30; Gaz. vol. 220; p. 1473.
- Magee, John H., Carthage, Mo. Jig. No. 1,128,807; Feb. 16; Gaz. vol. 211; p. 837.
- Magee, John N. (See Reed, Chase C., assignor.)
- Magee, William S., Fenelon, and C. R. McCarren, West Winfield, Pa. Railway-tie and fastener. No. 1,124,772; Jan. 12; Gaz. vol. 210; p. 596.
- Magee, William S., Fenelon, and C. R. McCarren, West Winfield, Pa. Rail-fastening means. No. 1,124,773; Jan. 12; Gaz. vol. 210; p. 596.
- Magennis, Charles B. (See Goble, Walter A., assignor.)
- Mager, Gertrude E., Hoboken, N. J. Game apparatus. No. 1,162,629; Nov. 30; Gaz. vol. 220; p. 1656.
- Magerl, George C., Necedah, Wis. Corn-planter. No. 1,140,755; May 25; Gaz. vol. 214; p. 1173.
- Maggia, Attilio, Bressio, Padua, Italy. Antiseptic mattress-filling. No. 1,150,688; Aug. 17; Gaz. vol. 217; p. 949.
- Maggio, Rosario, et al. (See Arena, Felice, assignor.)
- Maggs, Charles H., Rochester, N. Y. Folding table. No. 1,165,991; Dec. 28; Gaz. vol. 221; p. 1262.
- Magill, Samuel N., Elkins Park, Pa. Nethergarment. No. 1,146,585; July 13; Gaz. vol. 216; p. 586.
- Magill, William R. (See Barker, Spencer A., assignor.)
- Magin, August, Rochester, N. Y. Shock-absorber. No. 1,129,581; Feb. 23; Gaz. vol. 211; p. 1146.
- Magin, George A., Albany, N. Y. Mounting for velocipede pumps. No. 1,163,429; Dec. 7; Gaz. vol. 221; p. 243.
- Magin, John G., assignor to Henry Conolly Company, Rochester, N. Y. Loose-leaf binder. No. 1,151,024; Aug. 24; Gaz. vol. 217; p. 1121.
- Maginnis, T. B., Chicago, Ill., and T. Gaffney, St. Louis, Mo. Apparatus for making ice. No. 1,142,085; June 8; Gaz. vol. 215; p. 388.
- Magnea, Zoe G., New York, N. Y. Bottle. No. 1,159,057; Nov. 2; Gaz. vol. 220; p. 224.
- Magniphone Company, The. (See Rhodus, Thomas, assignor.)
- Magnus, Edward H., Toledo, Ohio. Pneumatic shoe-tree. No. 1,160,631; Nov. 16; Gaz. vol. 220; p. 868.
- Magnus, John, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,131,849; Mar. 16; Gaz. vol. 212; p. 768.
- Magnus, John, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,134,958; Apr. 6; Gaz. vol. 213; p. 311.
- Magnus, John, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,137,508; Apr. 27; Gaz. vol. 213; p. 1337.
- Magnuson, Alfred V., Berwyn, assignor to E. M. and H. A. Pridmore, Chicago, Ill. Molding-machine. No. 1,129,411; Feb. 23; Gaz. vol. 211; p. 1086.
- Magnuson, Axel, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator. No. 1,145,914; July 13; Gaz. vol. 216; p. 348.
- Magnuson, Axel, Lyndhurst, assignor to Otis Elevator Company, Jersey City, N. J. Lubricating apparatus. No. 1,162,794; Dec. 7; Gaz. vol. 221; p. 21.
- Magnuson, Hugo E. (See Haug and Magnuson.)
- Magnuson, Nels, Fort Wayne, Ind. Pneumatic action for piano-players. No. 1,158,067; Oct. 26; Gaz. vol. 219; p. 1077.
- Magnusson, Henry O., Chicago, Ill. Sand-sifting apparatus. No. 1,164,735; Dec. 21; Gaz. vol. 221; p. 784.
- Mago, Bartolomeo, New York, assignor of one-half to P. Carbone, Brooklyn, N. Y. Portable rotary roaster. No. 1,134,343; Apr. 6; Gaz. vol. 213; p. 95.
- Magoveny, William G., assignor to Crouse-Hinds Company, Syracuse, N. Y. Lock for boxes. No. 1,152,116; Aug. 31; Gaz. vol. 217; p. 1541.
- Magrane, Robert, New York, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sealing-machine. No. 1,134,070; Mar. 30; Gaz. vol. 212; p. 1649.
- Magri, Abel, and A. V. Griffith, Port Washington, N. Y. Vulcanizer. No. 1,156,793; Oct. 12; Gaz. vol. 219; p. 535.
- Magron, Henri, Fos, Haute-Garonne, France. Cooling electric furnaces by air. No. 1,131,609; Mar. 9; Gaz. vol. 212; p. 647.
- Magruder, Charles H., Shelbina, Mo. Grading-machine. No. 1,153,508; Sept. 14; Gaz. vol. 218; p. 445.
- Maguire, Forrest R., assignor to Maguire Manufacturing Company, Pittsburgh, Pa. Insect-beater. No. 1,150,690; Aug. 17; Gaz. vol. 217; p. 949.
- Maguire, Francis J. W., Detroit, Mich. Diagnostic sound. No. 1,144,220; June 22; Gaz. vol. 215; p. 1199.
- Maguire, James J., Boston, Mass. Supplementary spring and mounting therefor. No. 1,145,841; July 6; Gaz. vol. 216; p. 303.
- Maguire Manufacturing Company. (See Maguire, Forrest R., assignor.)
- Maguire, Robert. (See Bell and Maguire.)
- Magyar Kir-Állami Vasgyárak Központi Tgazgatvósága. (See Balassa, Friedrich, assignor.)
- Magyar, Andy, Hutchinson, Kans. Bed-bottom. No. 1,158,254; Oct. 26; Gaz. vol. 219; p. 1141.
- Mahan, Forrest M., Yuma, Ariz. Oil-burner. No. 1,146,006; July 13; Gaz. vol. 216; p. 380.

Alphabetical list of patentees—Continued.

- Mahan, James C., Lincoln, Nebr. Wire-fence tool. No. 1,143,414; June 15; Gaz. vol. 215; p. 894.
- Mahana, Charles G., assignor to Sheffield Car Company, Three Rivers, Mich. Engine-mounting. No. 1,157,168; Oct. 19; Gaz. vol. 219; p. 699.
- Mabaney, W. D. (See Boerner, Hermann, assignor.)
- Mahar, Solomon, North Adams, Mass. Permutation-lock. No. 1,163,430; Dec. 7; Gaz. vol. 221; p. 244.
- Maher, Daniel, Liverpool, England. Device for playing and practising golf, putting, and other games. No. 1,135,706 Apr. 13; Gaz. vol. 213; p. 618.
- Maher, Eugene E., assignor to K. Nut Co., Chicago, Ill. Lock-nut. No. 1,165,797; Dec. 28; Gaz. vol. 221; p. 1196.
- Maher, James, East Liverpool, Ohio. Accounting means. No. 1,130,832; Mar. 9; Gaz. vol. 212; p. 379.
- Maher, James H., Slingerlands, N. Y. Agricultural implement. No. 1,157,709; Oct. 26; Gaz. vol. 219; p. 952.
- Maher, James M., Fremont, Nebr. Power mechanism for dam-spillways. No. 1,137,156; Apr. 27; Gaz. vol. 213; p. 1211.
- Mahle, Louis F. (See Joffe and Mahle.)
- Mahler, Charles, *et al.* (See Nunn, Orion W., assignor.)
- Mahlstedt, John F., Los Angeles, Cal. Printing-machine. No. 1,130,991; Mar. 9; Gaz. vol. 212; p. 434.
- Mahlstedt, John F., Los Angeles, Cal. Printing-machine. No. 1,137,157; Apr. 27; Gaz. vol. 213; p. 1211.
- Mahlstedt, John F., Los Angeles, Cal. Printing-machine. No. 1,160,185; Nov. 16; Gaz. vol. 220; p. 710.
- Mahn, Charles A., New York, N. Y. Delivery-spout for cans. No. 1,124,495; Jan. 12; Gaz. vol. 210; p. 497.
- Mahnken, Flora, and L. Van Nice, assignors to Hunt and Van Nice, Denver, Colo. Crocheted article and producing the same. No. 1,139,989; May 18; Gaz. vol. 214; p. 871.
- Mahon, Joseph T. (See Henderson and Mahon.)
- Mahon, William L. E., Ann Arbor, Mich. Excavating-dipper tooth. No. 1,133,234; Mar. 23; Gaz. vol. 212; p. 1319.
- Mahoney, Harry E., Tampa, Fla. Game apparatus. No. 1,145,781; July 6; Gaz. vol. 216; p. 282.
- Mahoney, Jeremiah L., New Haven, Conn. Machine for punching rubber nipples. No. 1,144,945; June 22; Gaz. vol. 215; p. 1136.
- Mahoney, Jeremiah L., New Haven, Conn. Machine for forming rolls on rubber nipples. No. 1,154,191; Sept. 21; Gaz. vol. 218; p. 715.
- Mahoney, Jeremiah L., New Haven, Conn. Machine for forming plastic articles by dipping. No. 1,160,923; Nov. 16; Gaz. vol. 220; p. 971.
- Mahoney, John J., Dorchester, Mass. Fruit-picker. No. 1,152,331; Aug. 31; Gaz. vol. 217; p. 1615.
- Mahoney, John J., San Francisco, and W. L. Norris, Berkeley, assignors to California Pipe Line Machine Co., San Francisco, Cal. Pipe-laying machine. No. 1,143,844; June 22; Gaz. vol. 215; p. 1064.
- Mahoney, Joseph N. (See Austin and Mahoney.)
- Mahoney, Joseph N., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,132,786; Mar. 23; Gaz. vol. 212; p. 1159.
- Mahoney, Patrick A., Portland, Me. Faucet. No. 1,161,873; Nov. 30; Gaz. vol. 220; p. 1396.
- Mahoney, Thomas J. (See Moran, Joseph B., assignor.)
- Mahoney, William H., Hingham, Mass. Draw-bar and coupling connector. No. 1,141,810; June 1; Gaz. vol. 215; p. 253.
- Mahony, Timothy L., San Francisco, Cal. Screw-lock for door-knobs. No. 1,150,689; Aug. 17; Gaz. vol. 217; p. 949.
- Mahr, Albert T., Binghamton, and C. Miller, Olean, N. Y. Sanitary beer-cooler. No. 1,127,057; Feb. 2; Gaz. vol. 211; p. 139.
- Mahr, Julius A., assignor to Mahr Manufacturing Company, Minneapolis, Minn. Burner. No. 1,126,245; Jan. 26; Gaz. vol. 210; p. 1191.
- Mahr Manufacturing Company. (See Mahr, Julius A., assignor.)
- Mahurin, Sherman, Rockford, Ill. Road-bed. No. 1,139,692; May 18; Gaz. vol. 214; p. 767.
- Mai, Bernhard, Bergenfield, N. J. Fruit-stoning apparatus. No. 1,161,496; Nov. 23; Gaz. vol. 220; p. 1220.
- Mala, Theodoro, assignor to D. Falcone, Franklin, Mass. Extension-table. No. 1,164,376; Dec. 14; Gaz. vol. 221; p. 619.
- Maidens, George F., Columbus, Ohio. Push crumb-tray. No. 1,132,951; Mar. 23; Gaz. vol. 212; p. 1219.
- Maier, Carl, assignor to Union Spezial Maschinenfabrik G. m. b. H., Stuttgart, Germany. Sewing-machine. No. 1,136,823; Apr. 20; Gaz. vol. 213; p. 1054.
- Maier, Charles, Canby, Minn. Flue-cleaner. No. 1,134,342; Apr. 6; Gaz. vol. 213; p. 95.
- Maier, Gustav, Schramberg, Germany. Folding box. No. 1,126,246; Jan. 26; Gaz. vol. 210; p. 1192.
- Maier, Karl. (See Wever and Maier.)
- Maier, Karl, Stuttgart, Germany. Cash-register and money-changer. No. 1,128,889; Feb. 16; Gaz. vol. 211; p. 866.
- Maier, Karl, assignor to Union Spezial-Maschinenfabrik G. m. b. H., Stuttgart, Germany. Indicator mechanism for coin-issuing apparatus. No. 1,128,888; Feb. 16; Gaz. vol. 211; p. 866.
- Maier, Louis H., New York, N. Y. Operating mechanism for music-rolls. No. 1,146,436; July 13; Gaz. vol. 216; p. 532.
- Maier, Morton, New York, N. Y. Dental tool. No. 1,125,576; Jan. 19; Gaz. vol. 210; p. 916.
- Mail-ometer Company. (See Straight, Bennett D., assignor.)
- Mail-ometer Company. (See Strnad, John C., assignor.)
- Mailley, Roy D. (See Kraus and Mailley.)
- Mailhe, Alphonse. (See Sabatier and Mailhe.)
- Maille, Ernest, *et al.* (See Boisvert, Philippe, assignor.)
- Maimin Brothers and Company. (See Arendt, Morton, assignor.)
- Main, Fred F., Chicago, Ill., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,123,337; Jan. 5; Gaz. vol. 210; p. 48.
- Main, Fred F., Chicago, Ill., assignor to J. T. Underwood, Brooklyn, N. Y. Combined type-writing and computing machine. No. 1,157,884; Oct. 26; Gaz. vol. 219; p. 1012.
- Main, Fred F., Chicago, Ill., assignor of one-tenth to Underwood Typewriter Company, New York, N. Y. Typewriter and computing-machine. No. 1,151,492; Aug. 24; Gaz. vol. 217; p. 1279.
- Main, Fred F., H. V., and R. F., Chicago, Ill. Prepay service-station. No. 1,150,139; Aug. 17; Gaz. vol. 217; p. 756.
- Main, Harland V. (See Main, Fred F., H. V., and R. F.)
- Main, James G. (See Fortiner and Main.)
- Main, Ray F. (See Main, Fred F., H. V., and R. F.)
- Main, Walter L., Chester, Pa., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Detonating composition. No. 1,147,958; July 27; Gaz. vol. 216; p. 1111.
- Mainardi, Angelo, S., and H., assignors of one-fifth to J. Mainardi and one-fifth to V. Mainardi, Paterson, N. J. Train-stopping system. No. 1,131,536; Mar. 9; Gaz. vol. 212; p. 621.
- Mainardi, Henry. (See Mainardi, Angelo, S., and H.)
- Mainardi, John, *et al.* (See Mainardi, Angelo, S., and H., assignors.)
- Mainardi, Severino. (See Mainardi, Angelo, S., and H.)
- Mainardi, Vittorio, *et al.* (See Mainardi, Angelo, S., and H., assignors.)
- Maine, Herman M., Estherville, Iowa. Combined sound-box and bridge. No. 1,137,649; Apr. 27; Gaz. vol. 213; p. 1383.
- Maino, Charles A., and P. Pellegrini, assignors to United States Carburetor Company, Los Angeles, Cal. Carburetor. No. 1,157,116; Oct. 19; Gaz. vol. 219; p. 680.
- Mains, Thane H., Dallas, Tex. Transmitting telegraph-relay. No. 1,153,937; Sept. 21; Gaz. vol. 218; p. 629.
- Mainwaring, Albert E. (See Thomas and Mainwaring.)
- Mainwaring, Edward, Gotham, Wis. Counterbalance mechanism for pump-rods. No. 1,150,871; Aug. 24; Gaz. vol. 217; p. 1070.
- Mair, Charles C., *et al.* (See Behm and Vene, assignors.)
- Maire, Jules, Argenteuil, assignor to A. E. Vergé, Vincennes, France. Manufacture of derivatives of toluene. No. 1,124,496; Jan. 12; Gaz. vol. 210; p. 497.
- Maire, Jules, Argenteuil, assignor to A. E. Vergé, Vincennes, France. Gelatin explosive. No. 1,128,471; Feb. 16; Gaz. vol. 211; p. 722.
- Maire, Louis, Bonnots Mill, Mo. Shoe-polishing machine. No. 1,161,145; Nov. 23; Gaz. vol. 220; p. 1094.
- Maisenbacher, Fritz, Pforzheim, Germany. Making hollow soldered cable and curb chains and ring-platings of precious metal. No. 1,145,429; July 6; Gaz. vol. 216; p. 158.
- Maison, Cyril C., and R. H. Robinson, St. Louis, Mo., assignors to Allino Switch Box Manufacturing Company. Switch-box. No. 1,154,576; Sept. 21; Gaz. vol. 218; p. 848.
- Maitland, James D., assignor to The Jackson Fire Proof Partition Company, Denver, Colo. Fireproof partition. No. 1,146,586; July 13; Gaz. vol. 216; p. 586.
- Maiwurm, Paul, Shreve, Ohio. Punching and forming device for kettles. No. 1,144,662; June 29; Gaz. vol. 215; p. 1375.
- Majewski, Frank, Kensington, Ill. Detachable ice-creeper. No. 1,145,384; July 6; Gaz. vol. 216; p. 142.
- Major, John K., Paducah, Ky. Nut-lock. No. 1,142,345; June 8; Gaz. vol. 215; p. 479.
- Major, William W., Midlothian, Tex. Tire-patch for inner tubes. No. 1,128,256; Feb. 9; Gaz. vol. 211; p. 598.
- Majors, Walter L., assignor of one-half to A. M. Turnbo, St. Louis, Mo. Motor-controlling device for taxicabs and the like. No. 1,123,906; Jan. 5; Gaz. vol. 210; p. 241.
- Majors, Walter L., assignor of one-half to A. M. Turnbo, St. Louis, Mo. Hair-drier. No. 1,124,235; Jan. 5; Gaz. vol. 210; p. 355.
- Makboulan, Sarkis, Haverhill, Mass. Hay-fork. No. 1,151,209; Aug. 24; Gaz. vol. 217; p. 1185.
- Maker, John A., Duluth, Minn. Disk-holder. No. 1,130,914; Mar. 9; Gaz. vol. 212; p. 408.

- Maki, Julius, Chicago, Ill. Sled. No. 1,150,378; Aug. 17; Gaz. vol. 217; p. 840.
- Makin, Benjamin. (See Denley, William H., assignor.)
- Makin, Benjamin. (See Denley and Makin.)
- Makin, Benjamin. (See Denley, Makin, and Denley.)
- Malaspina, John, New York, N. Y. Adjustable wash-tray-cover holder and fastener. No. 1,124,048; Jan. 5; Gaz. vol. 210; p. 289.
- Malcamp, Philip, New Orleans, La. Lamp. No. 1,158,419; Oct. 26; Gaz. vol. 219; p. 1201.
- Malchow, Charles B., Warner, N. H. Oar-lock. No. 1,145,156; July 6; Gaz. vol. 216; p. 64.
- Malcolm, Robert. (See Weeks, Frank E., assignor.)
- Malcolm, William H., et al. (See Manning and Gould, assignors.)
- Malcolmson, Norman. (See McRae, William A. R. M., assignor.)
- Malcom, Robert, et al. (See Mosteller, Dostier H., assignor.)
- Malcom, Robert, Chicago, Ill. Eye-shield. No. 1,161,061; Nov. 23; Gaz. vol. 220; p. 1065.
- Malesich, Michael, North Chicago, Ill. Combined folding trunk and cabinet. No. 1,162,705; Nov. 30; Gaz. vol. 220; p. 1681.
- Maley, Fred W., Bakersfield, Cal. Absorbent comb. No. 1,147,681; July 20; Gaz. vol. 216; p. 988.
- Mallard, Charles C., deceased, Globe, Ariz.; C. L. Rawlins, administrator. Ballast plow or spreader. No. 1,155,429; Oct. 5; Gaz. vol. 219; p. 37.
- Mallen, Philip H., Chicago Heights, Ill. Third-rail system. No. 1,138,827; May 11; Gaz. vol. 214; p. 427.
- Mallett, Charles J., Kempner, assignor of one-fourth to F. C. Higginbotham, Holland, and one-fourth to R. H. Whigham, Kempner, Tex. Rake. No. 1,154,790; Sept. 28; Gaz. vol. 218; p. 950.
- Mallette, William B. (See Morse and Mallette.)
- Mallock, Arnulph, London, England. Ear-protector. No. 1,148,849; Aug. 3; Gaz. vol. 217; p. 131.
- Mallone, Nathan. (See Capparella and Mallone.)
- Malloy, Mary A., Portland, Oreg., assignor, by mesne assignments, to G. Hudson. Furnace. No. 1,152,332; Aug. 31; Gaz. vol. 217; p. 1615.
- Malloy, Mary A., Portland, Oreg., assignor, by mesne assignments, to G. Hudson. Kitchen-range and cooking-stove. No. 1,157,885; Oct. 26; Gaz. vol. 219; p. 1012.
- Malloy, Mary A., (now by judicial change of name M. A. Taylor), Portland, Oreg., assignor to D. Y. Iddings, San Francisco, Cal. Promoting combustion. No. 1,152,333; Aug. 31; Gaz. vol. 217; p. 1616.
- Malloy, Michael E., Pasadena, Cal. Shock-absorber. No. 1,135,909; Apr. 18; Gaz. vol. 213; p. 688.
- Malm, Arthur T., assignor to Norton Company, Worcester, Mass. Hollow article of refractory material. No. 1,152,428; Sept. 7; Gaz. vol. 218; p. 16.
- Malm, Axel, assignor to The Egry Register Company, Dayton, Ohio. Folding machine. No. 1,142,828; June 15; Gaz. vol. 215; p. 686.
- Malm, Axel C. V., assignor to The Egry Register Company, Dayton, Ohio. Manifold attachment for type-writing machines. No. 1,144,146; June 22; Gaz. vol. 215; p. 1171.
- Malm, Axel C. V., and L. Rauh, assignors to The Egry Register Company, Dayton, Ohio. Manifold attachment for type-writers. No. 1,144,147; June 22; Gaz. vol. 215; p. 1172.
- Malm, Axel C. V., L. Rauh, and C. R. Aker, assignors to The Egry Register Company, Dayton, Ohio. Manifold device for type-writing machines. No. 1,130,751; Mar. 9; Gaz. vol. 212; p. 351.
- Malman, Nikolay, San Francisco, Cal. Resilient tire. No. 1,162,090; Nov. 30; Gaz. vol. 220; p. 1474.
- Malmberg, Anna. (See Malmberg, Arvid J., assignor.)
- Malmberg, Arvid J., assignor to A. Malmberg, Erie, Pa. Metallic door. No. 1,129,041; Feb. 16; Gaz. vol. 211; p. 922.
- Malmberg, Arvid J., assignor to A. Malmberg, Erie, Pa. Metallic door. No. 1,129,042; Feb. 16; Gaz. vol. 211; p. 922.
- Malmberg, Arvid J., assignor to A. Malmberg, Erie, Pa. Metallic door. No. 1,129,043; Feb. 16; Gaz. vol. 211; p. 923.
- Malmberg, August A. (See Roberg and Malmberg.)
- Malmberg, Oscar E., Chicago, Ill. Convertible bench. No. 1,130,693; May 18; Gaz. vol. 214; p. 767.
- Malmsoj, Gustave C. (See Malmsoj, Joseph M. and G. C.)
- Malmsoj, Joseph M. and G. C., Philadelphia, Pa. Game apparatus. No. 1,159,854; Nov. 9; Gaz. vol. 220; p. 541.
- Malmstrom, Gust V., Kane, Pa. Ice-creeper. No. 1,160,425; Nov. 16; Gaz. vol. 220; p. 793.
- Malo, Theodore. (See Holmberg, Alfred, assignor.)
- Malodzki, Felix F. (See Pavelzke and Malodzki.)
- Malone, Edward V. (See Malone, William W. and E. V.)
- Malone, Ernest E., Ottawa, Ontario, Canada. Shock-absorber. No. 1,154,996; Sept. 28; Gaz. vol. 218; p. 1019.
- Malone, William H., and R. S. Jenkins, Fort Myers, Fla. Flower-pot. No. 1,133,735; Mar. 30; Gaz. vol. 212; p. 1536.
- Malone, William W. and E. V., Piqua, Ohio. Music-clamp. No. 1,138,302; May 4; Gaz. vol. 214; p. 203.
- Maloney, Frank H. (See Lindsay and Maloney.)
- Maloney, Michael H., Plymouth, Mass. Picking mechanism for looms. No. 1,136,824; Apr. 20; Gaz. vol. 213; p. 1055.
- Maloney, Michael H., Plymouth, Mass. Spinning mechanism. No. 1,153,237; Sept. 14; Gaz. vol. 218; p. 346.
- Maloney, Michael H., Plymouth, Mass. Spinning-ring mechanism. No. 1,165,012; Dec. 21; Gaz. vol. 221; p. 882.
- Maloney, Sheridan G., Mount Vernon, assignor of one-third to W. J. Cline, Centralia, and one-third to C. A. Cline, Litchfield, Ill. Sample-displaying closure. No. 1,147,033; July 20; Gaz. vol. 216; p. 761.
- Maloney, William T., Trenton, N. J., assignor to R. H. Ingersoll & Bro. Banking-pin for watches, clocks, and the like. No. 1,144,857; June 29; Gaz. vol. 215; p. 1445.
- Maloy, John C., Milan, Ga. Actuating means for baling-press plungers and the like. No. 1,159,241; Nov. 2; Gaz. vol. 220; p. 290.
- Malraux, Fernand, Suresnes, France. Mud-guard for vehicle-wheels. No. 1,128,704; Feb. 16; Gaz. vol. 211; p. 802.
- Malsin, Albert, New York, N. Y. Garment. No. 1,139,881; May 18; Gaz. vol. 214; p. 833.
- Malsin, Albert, New York, N. Y. Garment. No. 1,144,148; June 22; Gaz. vol. 215; p. 1172.
- Malsin, Albert, New York, N. Y. Brassière. No. 1,145,204; July 6; Gaz. vol. 216; p. 80.
- Malster, John C., Stromsburg, Nebr. Means for repairing worn rifled guns. No. 1,127,268; Feb. 2; Gaz. vol. 211; p. 212.
- Maltby, George K., New York, N. Y. Rubber heel. No. 1,159,972; Nov. 9; Gaz. vol. 220; p. 583.
- Maltby, Henry E., Los Angeles, Cal. Portable chicken-coop. No. 1,159,323; Nov. 2; Gaz. vol. 220; p. 318.
- Maltby, Julius. (See Buchanan and Maltby.)
- Maltby, Tod, McGill, Nev. Water-motor. No. 1,140,756; May 25; Gaz. vol. 214; p. 1173.
- Malvisi, Ugo, Turin, Italy. Spring-grip dumb-bell and exerciser. No. 1,130,620; Mar. 2; Gaz. vol. 212; p. 272.
- Maly, Frank C. (See Donat, Charles J., assignor.)
- Maly, Hermann, Guben, Germany. Improving the roving produced on a carding-engine. No. 1,154,870; Sept. 28; Gaz. vol. 218; p. 975.
- Manahan, Joseph A., assignor to T. Manahan, New York, N. Y. Water-still. No. 1,145,497; July 6; Gaz. vol. 216; p. 183.
- Manahan, Thomas. (See Manahan, Joseph A., assignor.)
- Manby, Bertram C., Carnegie, Pa. Shock-absorber. No. 1,142,261; June 8; Gaz. vol. 215; p. 450.
- Manchee, Wilfrid A., assignor to Newark Spring Mattress Company, Newark, N. J. Hammock-stand. No. 1,156,421; Oct. 12; Gaz. vol. 219; p. 407.
- Manchester, Arthur P., Providence, R. I. Electrolyte for primary batteries. No. 1,137,226; Apr. 27; Gaz. vol. 213; p. 1235.
- Mancusso, Frank, Barre, Vt. Wrench. No. 1,127,269; Feb. 2; Gaz. vol. 211; p. 213.
- Mandalian, Sabatier G. (See Jennings, James W., assignor.)
- Mandel, L., et al. (See Bonime, Albert, assignor.)
- Mandel, Louis, Chicago, Ill. Film-roll holder. No. 1,137,771; May 4; Gaz. vol. 214; p. 17.
- Mandel, Louis, Chicago, Ill. Film-roll holder. No. 1,164,835; Dec. 21; Gaz. vol. 221; p. 821.
- Mandel, M., et al. (See Bonime, Albert, assignor.)
- Mandelartz, Ludwig, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Combined sighting device and automatic projectile-releaser for air-vehicles. No. 1,130,621; Mar. 2; Gaz. vol. 212; p. 272.
- Mandelbaum, Robert, Asperg, Germany. Suppression of dust during the working up of Panama bark. No. 1,128,472; Feb. 16; Gaz. vol. 211; p. 723.
- Mandelick, Charles E. (See Williamson and Mandelick.)
- Mandeville, Albert, Ware, Mass. Shuttle bobbin-holder. No. 1,132,664; Mar. 23; Gaz. vol. 212; p. 1113.
- Mandeville, Paul, Lake Bluff, Ill. Apparatus for preparing flats for use in egg-case fillers. No. 1,143,055; June 15; Gaz. vol. 215; p. 766.
- Manegold, Robert A. (See Dings and Manegold.)
- Maness, William C., Laredo, Tex. Car-roofing. No. 1,132,952; Mar. 23; Gaz. vol. 212; p. 1226.
- Manetsch, Louis L., and C. R. Crisp, Marcus, Wash. Picture-exhibitor. No. 1,126,814; Feb. 2; Gaz. vol. 211; p. 53.
- Mangels, William F., New York, N. Y. Amusement apparatus. No. 1,128,890; Feb. 16; Gaz. vol. 211; p. 867.
- Mangisch, Edward, New York, N. Y. Folding balcony. No. 1,142,596; June 8; Gaz. vol. 215; p. 568.
- Mangisch, Edward, and A. Rey, New York, N. Y. Coffee-percolator. No. 1,160,924; Nov. 16; Gaz. vol. 220; p. 971.
- Mangold, William, Baltimore, Md. Container. No. 1,154,710; Sept. 28; Gaz. vol. 218; p. 923.
- Manhattan Divanette Co. (See Luppino, Joseph, assignor.)
- Manhattan Electrical Supply Company, The. (See Avery, Charles E., assignor.)
- Manhattan Electrical Supply Company. (See Birath, Theodor, assignor.)
- Manhattan Electrical Supply Company. (See Peterson, Johann G., assignor.)

Alphabetical list of patentees—Continued.

- Manhattan Rubber Manufacturing Company, The. (See Abert, Hamilton, assignor.)
- Manierre, George, Milwaukee, Wis. Loading apparatus. No. 1,143,056; June 15; Gaz. vol. 215; p. 776.
- Manierre, William R. (See Skibbe and Salvage, assignors.)
- Manila Refining Co. (See Burke, Edwin, assignor.)
- Manion, Frank W. (See Cunningham and Manion.)
- Maniscalco, Anthony S., Houston, Tex. Differential mechanism for automobiles. No. 1,157,319; Oct. 19; Gaz. vol. 219; p. 753.
- Manitowoc Ship Building and Dry Dock Company. (See Rankin, Archibald P., assignor.)
- Manitowoc Ship Building & Dry Dock Company. (See West, Charles C., assignor.)
- Mankato Mills Company. (See Clogher, William E., assignor.)
- Mankey, Vernon H., Aberdeen, S. D. Display apparatus. No. 1,161,062; Nov. 23; Gaz. vol. 220; p. 1065.
- Mankowsky, Frank, Chicago, Ill. Feed-water heater. No. 1,151,893; Aug. 31; Gaz. vol. 217; p. 1465.
- Manlet, Peter L., St. Paul, Minn. Automatic stop for elevators. No. 1,158,255; Oct. 26; Gaz. vol. 219; p. 1141.
- Manlet, Peter L., St. Paul, Minn. Automatic stop for elevators. No. 1,158,256; Oct. 26; Gaz. vol. 219; p. 1142.
- Manley, Edward B., assignor to Rockton Moulding Sand Company, Rockton, Ill. Sand-milling apparatus. No. 1,160,632; Nov. 16; Gaz. vol. 220; p. 868.
- Manley, Ralph B., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive paper and cloth. No. 1,161,497; Nov. 23; Gaz. vol. 220; p. 1221.
- Manly, Charles M., Brooklyn, N. Y. Controlling mechanism for power-vehicles. No. 1,132,665; Mar. 23; Gaz. vol. 212; p. 1114.
- Manly, Charles M., New York, N. Y. Speed-controller. No. 1,164,109; Dec. 14; Gaz. vol. 221; p. 527.
- Manly, Charles M., Freeport, and H. Centervall, Brooklyn, N. Y. Balanced crank mechanism for pumps, motors, &c. No. 1,137,877; May 4; Gaz. vol. 214; p. 53.
- Mann, Alfred, Barmen, assignor, by mesne assignments, to Waldes & Co., Dresden, Germany. Press-button. No. 1,128,341; Feb. 16; Gaz. vol. 211; p. 678.
- Mann, Bertram H., St. Louis, Mo. Lamp-bracket for railway cars. No. 1,133,302; Mar. 30; Gaz. vol. 212; p. 1380.
- Mann, Collin, Southport, Me. Fruit-picker. No. 1,157,025; Oct. 19; Gaz. vol. 219; p. 649.
- Mann, Frank E., Gahanna, Ohio. Rack-and-pinion device. No. 1,145,157; July 6; Gaz. vol. 216; p. 64.
- Mann, Frederick W., and M. L. Chappell, Berkeley, assignors to Standard Oil Company, Richmond, Cal. Refining petroleum and its products. No. 1,163,025; Dec. 7; Gaz. vol. 221; p. 102.
- Mann, Harry, Winchester, assignor of one-half to J. T. Foulke, Richmond, Ind. Fence-anchor. No. 1,146,191; July 13; Gaz. vol. 216; p. 445.
- Mann, Ira A., Pittsburgh, Pa. Plumbing-fixture. No. 1,124,049; Jan. 5; Gaz. vol. 210; p. 289.
- Mann, Ira A., Pittsburgh, Pa. Water-closet. No. 1,128,799; Feb. 16; Gaz. vol. 211; p. 834.
- Mann, Ira A., Pittsburgh, Pa. Plumbing-fixture. No. 1,132,953; Mar. 23; Gaz. vol. 212; p. 1220.
- Mann, Ira A., Pittsburgh, Pa. Plumbing-fixture. No. 1,132,954; Mar. 23; Gaz. vol. 212; p. 1220.
- Mann, John P., Chicago, Ill. Fan. No. 1,148,520; Aug. 3; Gaz. vol. 217; p. 13.
- Mann, Matthew D., Jr. (See Erwin, Lloyd, Mann, and Winchell.)
- Mann, Milton J., Bangor, Pa. Headlight. No. 1,164,539; Dec. 14; Gaz. vol. 221; p. 676.
- Mann, Nelson E., assignor to Reliance Electric Heating Company, Columbia, Pa. Electric heating-pad. No. 1,161,146; Nov. 23; Gaz. vol. 220; p. 1095.
- Mann, Sylvanus M., Greenville, W. Va. Type-writing machine. No. 1,151,493; Aug. 24; Gaz. vol. 217; p. 1279.
- Mann, William L. (See Guley and Mann.)
- Manning, Coleman J., Medford, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Altitude-gage. No. 1,160,426; Nov. 16; Gaz. vol. 220; p. 793.
- Manning, Coleman J., Medford, assignor to American Steam Gauge and Valve Manufacturing Company, Boston, Mass. Gage for indicating fluid pressures. No. 1,166,070; Dec. 28; Gaz. vol. 221; p. 1288.
- Manning, Clyde W., and A. C. M. Gould, assignors of five-sixteenths to W. H. Malcolm and one-fourth to J. R. Gordon, New York, N. Y. Burglar-alarm. No. 1,158,140; Oct. 26; Gaz. vol. 219; p. 1103.
- Manning, Edward, assignor to Manning Manufacturing Company, Rutland, Vt. Can-washing machine. No. 1,137,345; Apr. 27; Gaz. vol. 213; p. 1280.
- Manning, Edward E., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Drop-head cabinet for sewing-machines. No. 1,129,412; Feb. 23; Gaz. vol. 211; p. 1087.
- Manning, Edwin C., Winfield, Kans. Automobile-body. No. 1,162,940; Dec. 7; Gaz. vol. 221; p. 71.
- Manning, George B., Atlantic City, N. J. Safety collar-button. No. 1,148,978; Aug. 3; Gaz. vol. 217; p. 175.
- Manning, Henry E., New Haven, Conn. Fish-line-reel holder. No. 1,154,123; Sept. 21; Gaz. vol. 218; p. 692.
- Manning, James F., Minot, Me. Stanchion. No. 1,126,540; Jan. 26; Gaz. vol. 210; p. 1297.
- Manning, Joseph A., Pawtucket, R. I. Mechanical eye. No. 1,128,342; Feb. 16; Gaz. vol. 211; p. 678.
- Manning, Joseph A., Pawtucket, R. I. Mechanical eye. No. 1,137,772; May 4; Gaz. vol. 214; p. 17.
- Manning Manufacturing Company. (See Manning, Edward, assignor.)
- Manning, William T., Govans, Md. Car-ventilator. No. 1,128,166; Feb. 9; Gaz. vol. 211; p. 567.
- Manning, William T., Govans, Md. Freight-car. No. 1,146,728; July 13; Gaz. vol. 216; p. 633.
- Manns, Harry C. (See Faust, John G., assignor.)
- Manns, William H., assignor to Frick Company, Waynesboro, Pa. Ice-making apparatus and process. No. 1,159,058; Nov. 2; Gaz. vol. 220; p. 224.
- Manoogian, Harry, Troy, N. Y., assignor to H. Enochian, Kenosha, Wis. Extension-table. No. 1,123,808; Feb. 16; Gaz. vol. 211; p. 838.
- Manor, Carl M., Albany, Ind. Insect-trap. No. 1,125,701; Jan. 19; Gaz. vol. 210; p. 963.
- Manoss, John M., Ellerbe, assignor of one-third to J. F. Lintz and one-third to R. B. Napier, Richmond county, N. C. Gas-engine attachment. No. 1,133,872; Mar. 30; Gaz. vol. 212; p. 1586.
- Mansbach, Conrad B., assignor of one-half to F. L. Price, Brockton, Mass. Innersole. No. 1,165,687; Dec. 28; Gaz. vol. 221; p. 1158.
- Mansbridge, Arnold W., Winnipeg, Manitoba, Canada. Electrical heater. No. 1,155,592; Oct. 5; Gaz. vol. 219; p. 93.
- Mansbridge, Arnold W., and S. J. Nash, Winnipeg, Manitoba, Canada. Vaporizing attachment. No. 1,130,915; Mar. 9; Gaz. vol. 212; p. 408.
- Mansell, Albert H. (See Taylor and Mansell.)
- Mansell, John A. (See Embser, Peter, assignor.)
- Mansell, John H. (See Bacon and Mansell.)
- Mansfield, Aubrey J., Seattle, Wash. Vehicle-wheel. No. 1,132,787; Mar. 23; Gaz. vol. 212; p. 1159.
- Mansfield, Frederick J., Pasadena, Cal. Furling-machine. No. 1,158,257; Oct. 26; Gaz. vol. 219; p. 1142.
- Mansfield, Judson H. (See Purdy and Mansfield.)
- Mansfield, Walter P., King City, Cal. Animal-trap. No. 1,130,992; Mar. 9; Gaz. vol. 212; p. 434.
- Manson, Emanuel, Sagamore, Mass. Circuit-controller. No. 1,128,167; Feb. 9; Gaz. vol. 211; p. 567.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Speedometer. No. 1,125,702; Jan. 19; Gaz. vol. 210; p. 963.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Speedometer. No. 1,125,703; Jan. 19; Gaz. vol. 210; p. 964.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Electric system for vehicles. No. 1,131,402; Mar. 9; Gaz. vol. 212; p. 575.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Warning-signal device. No. 1,135,600; Apr. 13; Gaz. vol. 213; p. 580.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Automobile-horn. No. 1,143,845; June 22; Gaz. vol. 215; p. 1065.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Battery-case. No. 1,146,806; July 20; Gaz. vol. 216; p. 681.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Automobile-horn. No. 1,164,836; Dec. 21; Gaz. vol. 221; p. 821.
- Manson, Robert. (See Moore and Manson.)
- Mantel, Florian J. (See Smith and Mantel.)
- Mantel, Florian J., and F. W. Eaton, assignors to Crouse-Hinds Company, Syracuse, N. Y. Automatic time-lock for workmen's time-recorders. No. 1,164,736; Dec. 21; Gaz. vol. 221; p. 784.
- Manterola, Eugenio C., Rancagua, Chile. Saw-jointer. No. 1,136,023; Apr. 20; Gaz. vol. 213; p. 770.
- Mantle, Joseph G. C., New York, N. Y. Display-machine. No. 1,158,258; Oct. 26; Gaz. vol. 219; p. 1143.
- Mantle Lamp Company of America, The. (See Smith, Charles H., assignor.)
- Mantle Machinery & Patents Company. (See Cohn, Samuel, assignor.)
- Mantle Machinery and Patents Company. (See Flora and Murphy, assignors.)
- Manuel, Frank C., assignor of one-third to C. A. Kenney, San Francisco, Cal. Rotary engine. No. 1,131,148; Mar. 9; Gaz. vol. 212; p. 487.
- Manuel, Samuel, Saltcoats, Saskatchewan, Canada. Grain-car door. No. 1,143,846; June 22; Gaz. vol. 215; p. 1065.
- Manufacture d'Horlogerie de Béthune. (See Outrebon, Edouard, assignor.)
- Manufacturers' Equipment Company, The. (See Justice, Ithamar M., assignor.)
- Manufacturing Equipment & Engineering Company. (See Leland, Sanford D., assignor.)
- Manuppelli, Arnaldo. (See Spremulli and Manuppelli.)
- Manville, Oscar R., Breckenridge, Mo. Draft attachment for vehicles. No. 1,124,484; Jan. 12; Gaz. vol. 210; p. 493.
- Manwaring, Albert H., Philadelphia, Pa. Sectional support for pendent light-fixture. No. 1,142,597; June 8; Gaz. vol. 215; p. 568.

Alphabetical list of patentees—Continued.

- Manwaring, Robert A., and J. T. Hessel, New Haven, Conn. Insulator. No. 1,140,050; May 18; Gaz. vol. 214; p. 894.
- Many, Robert, Oak Park, Ill. Hose construction. No. 1,149,664; Aug. 10; Gaz. vol. 217; p. 526.
- Manyan, George A. (See Harkrader and Manyan.)
- Manypenny, Joseph P., Merchantville, N. J. Finger-nail clipper. No. 1,125,577; Jan. 19; Gaz. vol. 210; p. 916.
- Manzel, John E., and J. A. Lyons, Middletown, N. Y. Automobile-body. No. 1,155,941; Oct. 5; Gaz. vol. 219; p. 213.
- Mapel, Lewis A., St. Louis, Mo. Air-operated figure. No. 1,155,074; Sept. 28; Gaz. vol. 218; p. 1047.
- Mapes, Bessie J., Toledo, Ohio. Table decoration. No. 1,125,855; Jan. 19; Gaz. vol. 210; p. 1015.
- Mapes, Clarence T., Crafton, Pa. Sand-pump. No. 1,145,158; July 6; Gaz. vol. 216; p. 65.
- Mapes, Clarence T., Crafton, Pa. Underreamer. No. 1,165,196; Dec. 21; Gaz. vol. 221; p. 947.
- Mapes, John, assignor of one-half to Z. S. McGinnis, Alledo, Ill. Freight-car door. No. 1,132,202; Mar. 16; Gaz. vol. 212; p. 895.
- Maples, W. W., *et al.* (See Murphy, Oscar B., assignor.)
- Mara, Alexander P., St. Louis, Mo. Siphon-head for bottles. No. 1,125,856; Jan. 19; Gaz. vol. 210; p. 1015.
- Maranda, Albert H., and H. R. Snyder, Pittsburgh, Pa. Guard-rail clamp. No. 1,163,431; Dec. 7; Gaz. vol. 221; p. 244.
- Maranville Base and Filter Company, The. (See Pelton, Clyde S., assignor.)
- Maranville Base and Filter Company, The. (See Utz and Pelton, assignors.)
- Marbach, Fritz. (See Vuillaume and Marbach.)
- Marble, Harry M. (See Whalen, Thomas J., assignor.)
- Marble, Isabel R. Y., Newport, R. I. Wear-resisting laminated fabric. No. 1,126,648; Jan. 26; Gaz. vol. 210; p. 1337.
- Marble, James E., Elizabeth, N. J. Concrete-insert. No. 1,145,385; July 6; Gaz. vol. 216; p. 143.
- Marble, Sam B., Ilion, N. Y. Music-leaf turner. No. 1,140,695; May 25; Gaz. vol. 214; p. 1153.
- Marburg, Louis C., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Alternating-current system. No. 1,144,149; June 22; Gaz. vol. 215; p. 1173.
- Marburg, Louis C., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. System of distribution. No. 1,147,417; July 20; Gaz. vol. 216; p. 895.
- MarcAurele, Frank, Providence, R. I. Clearer for drawing-frames. No. 1,151,281; Aug. 24; Gaz. vol. 217; p. 1209.
- Marcante, Antonio, Paterson, N. J. Fire-alarm and sprinkler-operating apparatus. No. 1,140,837; May 25; Gaz. vol. 214; p. 1202.
- Marcello, Fittl, *et al.* (See Smith, Edgar W., assignor.)
- March, Max, Jersey City Heights, N. J., assignor to The General Oven Company, Inc., New York, N. Y. Baker's oven. No. 1,146,587; July 13; Gaz. vol. 216; p. 587.
- Marchand, Charles, Portland, Oreg. Treating by-product liquors from wood-sulfite plants. No. 1,155,256; Sept. 28; Gaz. vol. 218; p. 1108.
- Marchisio, Agostino, *et al.* (See Liberato, Nicola, assignor.)
- Marchthal, Eduard M. v., Vienna, Austria-Hungary, assignor to Siemens & Halske A. G., Berlin, Germany. Producing justification symbols in register-bands. No. 1,159,694; Nov. 9; Gaz. vol. 220; p. 481.
- Marcille, Albert W., Thorold, Ontario, Canada. Automatic gas cut-off. No. 1,155,257; Sept. 28; Gaz. vol. 218; p. 1108.
- Marcinkowski, Joseph, Chicago, Ill. Utensil-lifter. No. 1,133,442; Mar. 30; Gaz. vol. 212; p. 1430.
- Marckel, Amos. (See Reeser, Wilmer J., assignor.)
- Marconi, Guglielmo, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Transmitting apparatus for use in wireless telegraphy and telephony. No. 1,136,477; Apr. 20; Gaz. vol. 213; p. 931.
- Marconi, Guglielmo, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Transmitter for wireless telegraphy. No. 1,148,521; Aug. 3; Gaz. vol. 217; p. 13.
- Marconi, Louis, New York, N. Y. Bottle-closure. No. 1,130,183; Mar. 2; Gaz. vol. 212; p. 119.
- Marconi Wireless Telegraph Company of America. (See Franklin, Charles S., assignor.)
- Marconi Wireless Telegraph Company of America. (See Marconi, Guglielmo, assignor.)
- Marcott, Thomas H., Stamford, Conn. Bread-board. No. 1,159,695; Nov. 9; Gaz. vol. 220; p. 482.
- Marcotte, Arthur D., Eunice, La. Combined oil-burner and steam-generator. No. 1,144,221; June 22; Gaz. vol. 215; p. 1199.
- Marcotte, Thomas L., West Poland, Me. Tire-armor. No. 1,125,857; Jan. 19; Gaz. vol. 210; p. 1016.
- Mareonliier, Ernest J., Oconto Falls, Wis. Winding-machine for ribbons, laces, or the like. No. 1,141,646; June 1; Gaz. vol. 215; p. 199.
- Marcovsky, Frank, Pittsburgh, Pa. Protective armor for cycle-riders. No. 1,144,150; June 22; Gaz. vol. 215; p. 1173.
- Marcoq, Clément, and O. Helson, Liege, Belgium. Tipping device for vehicles and stationary tipping devices. No. 1,165,890; Dec. 28; Gaz. vol. 221; p. 1227.
- Marcroft, George, Providence, R. I., assignor to Universal Winding Company, Portland, Me. Compensator device for controlling the unwinding of yarn, thread, or similar materials. No. 1,156,913; Oct. 19; Gaz. vol. 219; p. 608.
- Marcus, Charles, New York, N. Y. Combination shirt and vest. No. 1,128,168; Feb. 9; Gaz. vol. 211; p. 568.
- Marcus, Hermann, Cologne, Germany. Conveying mechanism. No. 1,160,427; Nov. 16; Gaz. vol. 220; p. 793.
- Marcus, Otto. (See Rose, Marcus, and Klentz.)
- Marcus, Paul B., Neu-Rochwitz, near Dresden, and E. R. Böhme, Dresden, Germany. Elastic wheel. No. 1,139,429; May 11; Gaz. vol. 214; p. 638.
- Marcuse, Isaac J. (See Clarke, Edward S., assignor.)
- Marcuse, Isaac J., Richmond, Va., assignor to American Can Company, New York, N. Y. Tobacco-container. No. 1,145,915; July 13; Gaz. vol. 216; p. 348.
- Marcuse, Isaac J., Richmond, Va., assignor to American Can Company, New York, N. Y. Pocket-box. No. 1,150,443; Aug. 17; Gaz. vol. 217; p. 861.
- Marcuse, Isaac J., Richmond, Va., assignor to American Can Company, New York, N. Y. Pocket-box. No. 1,152,429; Sept. 7; Gaz. vol. 218; p. 17.
- Marcuse, Isaac J., Richmond, Va., assignor to American Can Company, New York, N. Y. Friction-cover container. No. 1,161,236; Nov. 23; Gaz. vol. 220; p. 1129.
- Marcuse, Moses M., assignor to West Disinfecting Company, New York, N. Y. Device for automatically closing the cover of seats of closets, commodes, and the like. No. 1,134,755; Apr. 6; Gaz. vol. 213; p. 246.
- Marcy, Frank E., Salt Lake City, Utah. Ball-mill. No. 1,137,878; May 4; Gaz. vol. 214; p. 54.
- Marcy, Frank E., Salt Lake City, Utah. Screen-grate for ball-mills. No. 1,153,238; Sept. 14; Gaz. vol. 218; p. 346.
- Marcy, Frank E., Salt Lake City, Utah. Ball-mill. No. 1,153,239; Sept. 14; Gaz. vol. 218; p. 347.
- Marcy, Paul A., West New York, N. J. Combination washtrey, sink, and drain-board. No. 1,164,540; Dec. 14; Gaz. vol. 221; p. 677.
- Marcel, John, La Belle, Pa. Antiskid attachment for tires. No. 1,130,310; Mar. 2; Gaz. vol. 212; p. 163.
- Marcel, John, La Belle, Pa. Extensible window-frame. No. 1,144,046; June 22; Gaz. vol. 215; p. 1136.
- Mardock, Guy, Illinois City, Ill. Insulator-support. No. 1,127,474; Feb. 9; Gaz. vol. 211; p. 325.
- Mardock, Guy, Illinois City, Ill. Umbrella-holder. No. 1,133,989; Mar. 30; Gaz. vol. 212; p. 1621.
- Mardon, John S., and L. D. Fay, Loyalton, Cal. Automatic hopper and feeding device. No. 1,137,346; Apr. 27; Gaz. vol. 213; p. 1281.
- Marean, William M., assignor of one-half to W. S. Brown, Belvidere, Ill. Spark-plug. No. 1,139,694; May 18; Gaz. vol. 214; p. 767.
- Marelli, Ercole, Milan, Italy. Oscillating fan. No. 1,138,390; May 4; Gaz. vol. 214; p. 236.
- Mareness, Berton L., Chicago, Ill. Aeroplane. No. 1,145,695; July 6; Gaz. vol. 216; p. 252.
- Mareness, Berton L., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Folding box. No. 1,144,770; June 29; Gaz. vol. 215; p. 1414.
- Mares, Matthew, Racine, Wis. Plowshare. No. 1,136,825; Apr. 20; Gaz. vol. 213; p. 1055.
- Mares, Matthew, Racine, Wis. Plowshare. No. 1,140,275; May 18; Gaz. vol. 214; p. 971.
- Marette, Jacques, Vincennes, assignor to Compagnie Generale Des Etablissements Pathe Freres, Phonographe Et Cinematographie, Paris, France. Machine for drying cinematographic films and the like. No. 1,150,609; Aug. 17; Gaz. vol. 217; p. 920.
- Margetts, Irven R., and E. R. Pembroke, Salt Lake City, Utah. Ore-roasting furnace. No. 1,145,329; July 6; Gaz. vol. 216; p. 122.
- Margolis, Louis, New York, N. Y. Corset. No. 1,136,024; Apr. 20; Gaz. vol. 213; p. 770.
- Margolyes, Robert L., New York, N. Y. Union garment. No. 1,126,541; Jan. 26; Gaz. vol. 210; p. 1298.
- Marhenke, August H., New York, N. Y. Vehicle-alarm. No. 1,123,774; Jan. 5; Gaz. vol. 210; p. 197.
- Marhenke, August H., New York, N. Y. Vehicle brake-lock. No. 1,124,232; Jan. 5; Gaz. vol. 210; p. 354.
- Marhenke, August H., New York, N. Y. Locking device for hand-levers. No. 1,159,973; Nov. 9; Gaz. vol. 220; p. 583.
- Marin, Aimé, Vitry-sur-Seine, France. Cap for incandescent lamps. No. 1,141,400; June 1; Gaz. vol. 215; p. 113.
- Mariner, George P., Philadelphia, Pa. Food product. No. 1,142,346; June 8; Gaz. vol. 215; p. 479.
- Marling, Howard T. (See Myers and Marling.)
- Marino, Ralph, Clearfield, Pa. Music-leaf turner. No. 1,131,537; Mar. 9; Gaz. vol. 212; p. 622.
- Marinsky, Davis, New York, N. Y. Tape. No. 1,160,925; Nov. 16; Gaz. vol. 220; p. 971.
- Marion, Napoleon, Montreal, Quebec, Canada. Mud-guard for automobiles and the like. No. 1,147,256; July 20; Gaz. vol. 216; p. 838.
- Marion Steam Shovel Company, The. (See Jacoby and Johnson, assignors.)

Alphabetical list of patentees—Continued.

- Marion Steam Shovel Company, The. (See King and Fellmeth, assignors.)
- Marlon Steam Shovel Company, The. (See King and Gracely, assignors.)
- Marlon Steam Shovel Company, The. (See King and Weston, assignors.)
- Marlon Steam Shovel Company, The. (See King, Jacoby, and Johnson, assignors.)
- Marlon Steam Shovel Company, The. (See King, Weston, and Holmes, assignors.)
- Marlon Steam Shovel Company, The. (See King, Holmes, Jacoby, and Roush, assignors.)
- Marlon Steam Shovel Company, The. (See King, Weston, Roush, and Holmes, assignors.)
- Mariotti, Attilio, Florence, Italy. Compressed-air hydraulic pump. No. 1,155,594; Oct. 5; Gaz. vol. 219; p. 93.
- Marls, Maximilien, Chicago, Ill. Game. No. 1,138,233; May 4; Gaz. vol. 214; p. 178.
- Marls, Maximilien, Chicago, Ill. Game and game apparatus. No. 1,165,688; Dec. 28; Gaz. vol. 221; p. 1158.
- Maritz, E. F. (See Sokolowski, Theophile, assignor.)
- Marjanko, Ferdinand, and M. Grusheka, Prague, Austria-Hungary. Machine for the production and insertion of springs in press-buttons. No. 1,128,473; Feb. 16; Gaz. vol. 211; p. 723.
- Mark, Clarence, Evanston, and C. Mark, Jr., assignors to C. Mark, Lake Forest, Ill. Applying protective coatings to metallic articles. No. 1,155,317; Sept. 28; Gaz. vol. 218; p. 1127.
- Mark, Clayton. (See Bergman, Carl O., assignor.)
- Mark, Clayton. (See Dies, Charles A., assignor.)
- Mark, Clayton, Jr. (See Mark, Clarence and C., Jr.)
- Mark, Jacob, Brooklyn, and E. N. Mohl, New York, assignors to Mark & Mohl, Inc., Brooklyn, N. Y. Grating. No. 1,132,021; Mar. 16; Gaz. vol. 212; p. 831.
- Mark, Jacob, Brooklyn, and E. N. Mohl, New York, assignors to Mark & Mohl, Inc., Brooklyn, N. Y. Grating. No. 1,140,692; May 25; Gaz. vol. 214; p. 1152.
- Mark & Mohl. (See Benjamins, Israel, assignor.)
- Mark & Mohl. (See Mark and Mohl, assignors.)
- Markel, Karl E., administrator. (See Feld, Walther.)
- Markel, Ross W. (See Swisher, Samuel C., assignor.)
- Markel, Samuel, Pipestone, Minn. Mold for constructing hollow reinforced-concrete walls. No. 1,123,563; Jan. 5; Gaz. vol. 210; p. 125.
- Markem Machine Company. (See Putnam and Robbins, assignors.)
- Markem Machine Company. (See Robbins, Charles F., assignor.)
- Marker, Charles E. (See Bernia, John, assignor.)
- Marker, Henry H., Mount Clemens, assignor to Pull-More Motor-Truck Company, Detroit, Mich. Motor-vehicle. No. 1,136,026; Apr. 20; Gaz. vol. 213; p. 771.
- Marker, Henry H., Mount Clemens, assignor of three-fourths to F. G. Krueger, M. A. Smith, and R. S. Moore, Detroit, Mich. Clutch. No. 1,136,025; Apr. 20; Gaz. vol. 213; p. 771.
- Markham, Andrew J., assignor of one-tenth to C. A. Swanson, one-tenth to C. A. Senter, one-tenth to E. J. Clark, one-tenth to G. W. Morris, and one-tenth to W. C. Johnston, Dana, Iowa. Corn-husker. No. 1,133,736; Mar. 30; Gaz. vol. 212; p. 1537.
- Markham, Charles M., San Diego, Cal. Glider-form support. No. 1,128,809; Feb. 16; Gaz. vol. 211; p. 838.
- Markham, Herbert, Fulham, England. Mud-guard for motor-vehicles. No. 1,129,702; Feb. 23; Gaz. vol. 211; p. 1185.
- Markham, Jackson M., Williamsville, Mo. Calendar. No. 1,154,997; Sept. 28; Gaz. vol. 218; p. 1019.
- Markham, James W., Evansville, Ind. Switch-operating mechanism. No. 1,123,338; Jan. 5; Gaz. vol. 210; p. 49.
- Markham, James W., assignor of twenty-two and one-half one-hundredths to C. F. Werner and twenty-two and one-half one-hundredths to W. P. Walsh, Evansville, Ind. Switch-operating mechanism. No. 1,145,330; July 6; Gaz. vol. 216; p. 123.
- Markham, L. H., et al. (See Simon, Carl G., assignor.)
- Markham, Thomas, Belfast, Ireland. Fastening for doors, windows, and the like. No. 1,136,430; Apr. 20; Gaz. vol. 213; p. 915.
- Markland, Lloyd L., Colfax, Ill. Mail-box. No. 1,164,837; Dec. 21; Gaz. vol. 221; p. 821.
- Markle, John. (See Starr, Alden B., assignor.)
- Markle, John R., Chicago, Ill. Electric power-transmission system. No. 1,139,882; May 18; Gaz. vol. 214; p. 834.
- Markle, Josiah J. (See Ludwig, James G., assignor.)
- Markley, George E., Cleveland, Ohio. Metal-working. No. 1,160,428; Nov. 16; Gaz. vol. 220; p. 794.
- Markovich, Joseph J., Uniontown, Pa. Quick-action wrench. No. 1,147,181; July 20; Gaz. vol. 216; p. 811.
- Markovich, Joseph J., Uniontown, Pa. Household fruit-press. No. 1,149,530; Aug. 10; Gaz. vol. 217; p. 474.
- Markowicz, Jacob, Arnold City, Pa. Chair attachment for tables. No. 1,156,538; Oct. 12; Gaz. vol. 219; p. 447.
- Markowicz, Martin, Erie, Pa. Ice-creeper. No. 1,141,353; June 1; Gaz. vol. 215; p. 94.
- Markowsky, John, Brooklyn, N. Y. Candelabrum. No. 1,128,169; Feb. 9; Gaz. vol. 211; p. 568.
- Marks, Albert, New York, N. Y. Envelop-opener. No. 1,126,542; Jan. 26; Gaz. vol. 210; p. 1298.
- Marks, Albert, Brooklyn, N. Y. Stamp. No. 1,145,430; July 6; Gaz. vol. 216; p. 158.
- Marks, Albert, Brooklyn, N. Y. Printing-stamp. No. 1,155,595; Oct. 5; Gaz. vol. 219; p. 94.
- Marks, Isaac G., New Orleans, La. Automatic closure for garbage-cans. No. 1,143,847; June 22; Gaz. vol. 215; p. 1065.
- Marks, Leo A. (See Reagen and Marks.)
- Marks, Reuben. (See Bricken, John, assignor.)
- Marks, William, et al. (See Behm and Vene, assignors.)
- Marks, Your M., U. S. Army. Cap-protector. No. 1,128,170; Feb. 9; Gaz. vol. 211; p. 568.
- Markson, Clemens, Seattle, Wash. Tire. No. 1,136,546; Apr. 20; Gaz. vol. 213; p. 955.
- Markson, Joseph, Tacoma, Wash. Swivelling bracket for automobile-lamps. No. 1,162,091; Nov. 30; Gaz. vol. 220; p. 1474.
- Markstein, Robert, assignor of one-half to A. and R. Lion, Vienna, Austria-Hungary. Increasing the resonance capacity of wood. No. 1,159,402; Nov. 9; Gaz. vol. 220; p. 378.
- Marland, George I., Dookie, Victoria, Australia. Wrench. No. 1,154,192; Sept. 21; Gaz. vol. 218; p. 715.
- Marlatt, George E., Pasadena, Cal., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 1,126,543; Jan. 26; Gaz. vol. 210; p. 1298.
- Marlborough, James, Topsfield, Mass. Fountain-pen. No. 1,130,622; Mar. 2; Gaz. vol. 212; p. 273.
- Marley, Bernard, W. P. Thacker, and R. P. Barnard, Nokomis, Ill. Resilient wheel. No. 1,137,509; Apr. 27; Gaz. vol. 213; p. 1337.
- Marlin Firearms Company, The. (See Darton, Willard B., assignor.)
- Marlin Firearms Company, The. (See Swebilus and Hanitz, assignors.)
- Marlin, John P., San Lorenzo, Cal. Vegetable-washer. No. 1,132,597; Mar. 23; Gaz. vol. 212; p. 1088.
- Marlow, William, Brooklyn, N. Y., assignor to Standard Knitting Mills Company. Undergarment. No. 1,124,485; Jan. 12; Gaz. vol. 210; p. 493.
- Marlow, William, New York, N. Y., assignor to Standard Knitting Mills Company. Making union suits. No. 1,128,343; Feb. 16; Gaz. vol. 211; p. 678.
- Marlow, William, New York, N. Y., assignor to Standard Knitting Mills Company. Making union garments. No. 1,132,666; Mar. 23; Gaz. vol. 212; p. 1114.
- Marlow, William, New York, N. Y., assignor to Standard Knitting Mills Company. Thread-winding machine. No. 1,157,886; Oct. 26; Gaz. vol. 219; p. 1013.
- Marlow, William, New York, N. Y., assignor to Standard Knitting Mills Company. Thread-winding machine. No. 1,160,429; Nov. 16; Gaz. vol. 220; p. 794.
- Marlowe, Everett A., Prescott, Ariz. Combined trunk and bed. No. 1,140,991; May 25; Gaz. vol. 214; p. 1258.
- Marmon, Howard, Indianapolis, Ind. Wind-shield. No. 1,146,007; July 13; Gaz. vol. 216; p. 381.
- Marmon, Howard C., Indianapolis, Ind. Axle for motor-vehicles. No. 1,133,813; Mar. 30; Gaz. vol. 212; p. 1564.
- Marmon, Howard C., Indianapolis, Ind. Steering axle and wheel. No. 1,137,996; May 4; Gaz. vol. 214; p. 95.
- Marmon, Howard C., Indianapolis, Ind. Automobile-axle. No. 1,146,008; July 13; Gaz. vol. 216; p. 381.
- Marmon, Howard C., Indianapolis, Ind. Means for oiling explosion-motors. No. 1,156,608; Oct. 12; Gaz. vol. 219; p. 471.
- Maron, David, Geneva, Switzerland, assignor to Synthetic Patents Co., Inc., New York, N. Y. Diacyldiaminophenol compounds. No. 1,159,403; Nov. 9; Gaz. vol. 220; p. 378.
- Marqua, Philip, St. Louis, Mo. Pulley. No. 1,157,710; Oct. 26; Gaz. vol. 219; p. 952.
- Marquardt, Frank C., New York, N. Y., assignor to American Bank Note Company. Printing-machine. No. 1,132,481; Mar. 16; Gaz. vol. 212; p. 998.
- Marquardt, Frederick, Milwaukee, Wis. Shipping-crate. No. 1,136,027; Apr. 20; Gaz. vol. 213; p. 772.
- Marquardt, George P., Rochester, Minn. Animal-trap. No. 1,144,607; June 29; Gaz. vol. 215; p. 1357.
- Marquardt, Reinhold G., assignor to Milwaukee Woven Wire Works, Milwaukee, Wis. Mattress-spring. No. 1,134,972; Apr. 6; Gaz. vol. 213; p. 317.
- Marquardt, Samuel J., Monroeville, Ind. Harvester. No. 1,154,037; Sept. 21; Gaz. vol. 218; p. 663.
- Marquis, Albert N., Chicago, Ill. Device for permitting adjustment of neckties. No. 1,128,800; Feb. 16; Gaz. vol. 211; p. 835.
- Marquis, James B., Norwich, N. Y. Baggage-carrier for automobiles. No. 1,156,539; Oct. 12; Gaz. vol. 219; p. 447.
- Marquis, James B., Norwich, N. Y. Baggage-carrier for automobiles. No. 1,156,540; Oct. 12; Gaz. vol. 219; p. 448.
- Marr, George M., New York, N. Y. Mechanical releasing means for electric brakes. No. 1,154,791; Sept. 28; Gaz. vol. 218; p. 950.
- Marr, James A., Bridgeport, Conn. Valve for internal-combustion engines. No. 1,129,582; Feb. 23; Gaz. vol. 211; p. 1146.

- Marr, Robert A., assignor to American Wood Encysting Co., Incorporated, Norfolk, Va. Impregnated wood and producing the same. (Reissue.) No. 1,39,952; July 27; Gaz. vol. 216; p. 1301.
- Marreck, August, Waidmannslust, Germany. Ball-bearing. No. 1,165,992; Dec. 28; Gaz. vol. 221; p. 1262.
- Marresford, William F. (See Lewis, Willard I., assignor.)
- Marresford, William F., Brooklyn, N. Y. Automatic stick-circulating machine. No. 1,125,363; Jan. 19; Gaz. vol. 210; p. 342.
- Marrinan, Honora C., and J. Gorman, St. Paul, Minn. Electric bath-cabinet. No. 1,130,916; Mar. 9; Gaz. vol. 212; p. 409.
- Marrow, William C., Narragansett Pier, R. I., and J. M. Biddle, Washington, D. C. Time-controlled switch for electric lights. No. 1,154,193; Sept. 21; Gaz. vol. 218; p. 715.
- Marrs, Edward F., San Diego, Cal. Device for indicating the movement of vehicles. No. 1,134,631; Apr. 8; Gaz. vol. 213; p. 200.
- Marrs, Huston H., W. D. Terry, and H. J. Marrs, Denver, Colo. Liquid-fuel burner. No. 1,128,616; Feb. 16; Gaz. vol. 211; p. 772.
- Marrs, Huston J. (See Marrs, Terry, and Marrs.)
- Marsa, Melchor, New York, assignor to The International Cork Company, Brooklyn, N. Y. Artificial cork. No. 1,152,193; Aug. 31; Gaz. vol. 217; p. 1568.
- Marschalek, Frank, West New York, N. J. Embroidery-machine. No. 1,154,871; Sept. 28; Gaz. vol. 218; p. 975.
- Marschalek, Frank, West New York, N. J. Embroidery-machine. No. 1,154,872; Sept. 28; Gaz. vol. 218; p. 976.
- Marsden, Herbert E. (See Cook and Marsden.)
- Marsden, John E., Philadelphia, Pa. Detachable lamp. No. 1,137,773; May 4; Gaz. vol. 214; p. 18.
- Marsden, John E., Philadelphia, Pa. Window-regulator. No. 1,155,754; Oct. 5; Gaz. vol. 219; p. 148.
- Marsden, Mark W., Philadelphia, Pa. Treating vegetable substances for the recovery of their values. No. 1,165,689; Dec. 28; Gaz. vol. 221; p. 1158.
- Marsden, Mark W., assignor to Economic Power & Products Company, Philadelphia, Pa. Utilizing waste substances of the cotton-plant and product thereof. No. 1,143,587; June 15; Gaz. vol. 215; p. 952.
- Marsden, William N. (See Kaufmann and Marsden.)
- Marsee, Steve, *et al.* (See Minkler, Ray A., assignor.)
- Marseilles Company. (See Adams, Alonzo T., assignor.)
- Marseilles Company. (See Adams and Dain, assignors.)
- Marseilles Company. (See Adams, John Q. and A. T., assignors.)
- Marseilles Company. (See Brown, Theophilus, assignor.)
- Marseilles Company. (See Todd, Floyd R., assignor.)
- Marsellis, Ford, Berkeley, Cal. Drawbridge circuit-controller. No. 1,139,047; May 11; Gaz. vol. 214; p. 506.
- Marsh Capron Manufacturing Company. (See Mosby, Alfred D., assignor.)
- Marsh, Edward A., Newton, assignor to Waltham Watch Company, Waltham, Mass. Compensation-balance demonstrator. No. 1,149,847; Aug. 10; Gaz. vol. 217; p. 591.
- Marsh, Edward A., West Newton, assignor to The Oulford Company, Boston, Mass. Safety motor-starting crank. No. 1,163,551; Dec. 7; Gaz. vol. 221; p. 285.
- Marsh, Edwin T., Bergen, N. Y. Animal-trap. No. 1,138,132; May 4; Gaz. vol. 214; p. 146.
- Marsh, Franklin, assignor of one-half to A. C. Grant, Milwaukee, Wis. Window. No. 1,145,159; July 6; Gaz. vol. 216; p. 65.
- Marsh, Franklin, National Home, assignor of one-half to A. C. Grant, Milwaukee, Wis. Muffler attachment for blow-off cocks. No. 1,153,327; Sept. 14; Gaz. vol. 218; p. 377.
- Marsh, George H., assignor of one-half to W. T. Caffrey, Paterson, N. J. Gearing. No. 1,128,344; Feb. 16; Gaz. vol. 211; p. 879.
- Marsh, Howard L., Philadelphia, Pa. Introducing iron into foods, drugs, and beverages. No. 1,129,306; Feb. 23; Gaz. vol. 211; p. 1049.
- Marsh, Howard L., Philadelphia, Pa. Forming compounds of iron and carbohydrates. No. 1,129,307; Feb. 23; Gaz. vol. 211; p. 1050.
- Marsh, Hugh M., Chicago, Ill. Broom. No. 1,138,303; May 4; Gaz. vol. 214; p. 203.
- Marsh, James E., Reedville, Va. Apparatus for recovering particles of fish-meal from liquids. No. 1,124,774; Jan. 12; Gaz. vol. 210; p. 596.
- Marsh, Joseph G., Manchester, N. H. Automobile-signal. No. 1,149,531; Aug. 10; Gaz. vol. 217; p. 474.
- Marsh Valve Company. (See Marsh, William C., assignor.)
- Marsh, Walter W., Baltimore, Md. Closet-trap. No. 1,144,488; June 29; Gaz. vol. 215; p. 1318.
- Marsh, Walter W., Baltimore, Md. Closet-trap. No. 1,163,099; Dec. 7; Gaz. vol. 221; p. 126.
- Marsh, Wilbur W. (See Hackett and Morgan, assignors.)
- Marsh, Wilbur W. (See Morgan, Thomas W., assignor.)
- Marsh, William C., assignor to Marsh Valve Company, Dunkirk, N. Y. Gate-valve. No. 1,149,848; Aug. 10; Gaz. vol. 217; p. 591.
- Marsh, William C., assignor to Marsh Valve Company, Dunkirk, N. Y. Valve. No. 1,151,494; Aug. 24; Gaz. vol. 217; p. 1280.
- Marsh, William C., assignor to Marsh Valve Company, Dunkirk, N. Y. Valve. No. 1,165,197; Dec. 21; Gaz. vol. 221; p. 948.
- Marsh, William J., *et al.* (See Marvin, Samuel W., assignor.)
- Marshall Brothers and Griffin Manufacturing Corporation. (See Marshall, William E. and M. W., assignors.)
- Marshall, Charles L., *et al.* (See Mentzer, Oliver A., assignor.)
- Marshall, Clyde R., Cedar Rapids, Iowa. Land-harrow. No. 1,151,702; Aug. 31; Gaz. vol. 217; p. 1397.
- Marshall, Curtis C. (See Norris and Marshall.)
- Marshall, Elmer E., Erie, Kans. Seed-germinator. No. 1,130,752; Mar. 9; Gaz. vol. 212; p. 352.
- Marshall, Ernest W., Yonkers, assignor to George H. Frothingham Company, New York, N. Y. Power-ramp. No. 1,127,661; Feb. 9; Gaz. vol. 211; p. 386.
- Marshall, Frank F. (See Schorik and Marshall.)
- Marshall, George M., Grosse Isle, Manitoba, Canada. Building construction. No. 1,127,058; Feb. 2; Gaz. vol. 211; p. 139.
- Marshall, Harry S., Mechanicsburg, Pa. Dumping-wagon. No. 1,127,059; Feb. 2; Gaz. vol. 211; p. 139.
- Marshall, Hayward N. (See Nedrow, Benjamin F., assignor.)
- Marshall, Henry E. (See Holbrook, Rolfe R., assignor.)
- Marshall, Herbert E., New York, N. Y. Hedge-cutter. No. 1,152,531; Sept. 7; Gaz. vol. 218; p. 56.
- Marshall, Holmes, Cleveland, Ohio. Combined type-writing and computing machine. No. 1,147,959; July 27; Gaz. vol. 216; p. 1111.
- Marshall, Howard P., and G. E. Daniels, Dayton, Ohio. Dish-washing machine. No. 1,152,532; Sept. 7; Gaz. vol. 218; p. 57.
- Marshall, James G., assignor to Union Carbide Company, Niagara Falls, N. Y. Electric furnace. No. 1,127,475; Feb. 9; Gaz. vol. 211; p. 326.
- Marshall, James G., Niagara Falls, assignor to Union Carbide Company, New York, N. Y. Electric furnace. No. 1,149,203; Aug. 10; Gaz. vol. 217; p. 357.
- Marshall, John I. (See Faulds, John, assignor.)
- Marshall, John P., St. Louis, Mo. Self-lubricating sewing-machine. No. 1,135,601; Apr. 13; Gaz. vol. 213; p. 581.
- Marshall, Martin W. (See Marshall, William E. and M. W.)
- Marshall, Norman, Newton, Mass., assignor to General Electric Company. Lamp-making machine. No. 1,132,277; Mar. 16; Gaz. vol. 212; p. 925.
- Marshall, Stephen M., Clinton, Mass. Washing-machine. No. 1,129,219; Feb. 23; Gaz. vol. 211; p. 1018.
- Marshall, Stephen M., Clinton, Mass. Quick release for wringer-rolls. No. 1,138,770; May 11; Gaz. vol. 214; p. 406.
- Marshall, William E., Maspeth, and M. W. Marshall, Elm-hurst, assignors to Marshall Brothers and Griffin Manufacturing Corporation, Maspeth, Flushing, N. Y. Check-indorsing machine. No. 1,128,801; Feb. 16; Gaz. vol. 211; p. 835.
- Marshall, William L., Washington, D. C. Automatic dam. No. 1,128,891; Feb. 16; Gaz. vol. 211; p. 867.
- Marshall, Wm. A., *et al.* (See Willis, William, assignor.)
- Marston, Edgar L., assignor to C. J. Brown, Somerville, Mass. Extension-table. No. 1,161,399; Nov. 23; Gaz. vol. 220; p. 1187.
- Marston, Gardner E. (See Young and Marston.)
- Marston, Howard F., and J. L. McKittrick, Dayton, Ohio; said McKittrick assignor to said Marston. Centering mechanism. No. 1,134,145; Apr. 6; Gaz. vol. 213; p. 22.
- Marston, John. (See Duncan, Charles G., assignor.)
- Marsula, John J., Pittsburgh, Pa. Tire for vehicle-wheels. No. 1,147,111; July 20; Gaz. vol. 216; p. 787.
- Marszalek, Michael. (See Zajac, Leon, assignor.)
- Mart, Leon T., Youngstown, Ohio. Gage-cock. No. 1,162,630; Nov. 30; Gaz. vol. 220; p. 1656.
- Mart, Leon T., Youngstown, and G. M. Stains, Cleveland, Ohio. Valve-regulator. No. 1,160,926; Nov. 16; Gaz. vol. 220; p. 971.
- Martell, Albert A., Boston, Mass. Tool for aligning and finishing shaft-bearings and the like. No. 1,135,460; Apr. 13; Gaz. vol. 213; p. 531.
- Martell, Edward A. (See Needleman, Charles, assignor.)
- Martell, Zeno, Bedford, Ohio. Tenon-cutting machine. No. 1,153,938; Sept. 21; Gaz. vol. 218; p. 629.
- Martens, Rudolph M., *et al.* (See Christiansen, Ole F., assignor.)
- Martenson, Louis. (See Ingeman and Martenson.)
- Martersteck, William T. (See Danforth, Samuels, and Martersteck.)
- Marth, Charles J., assignor to Wayne Manufacturing Company, St. Louis, Mo. Gearing. No. 1,139,695; May 18; Gaz. vol. 214; p. 768.
- Martin, Albert J., Dayton, Ohio. Window and veranda box. No. 1,139,883; May 18; Gaz. vol. 214; p. 834.
- Martin, Albert W. (See Washburn and Martin.)
- Martin, Albert W., Worcester, Mass., assignor to Woods-Sherwood Company. Joint. No. 1,138,496; May 4; Gaz. vol. 214; p. 272.

Alphabetical list of patentees—Continued.

- Martin, Arthur, assignor to The Van Dorn Iron Works, Cleveland, Ohio. Filing-cabinet. No. 1,124,775; Jan. 12; Gaz. vol. 210; p. 597.
- Martin, Aubrey H., Short Hills, assignor to J. E. Brown, Newark, N. J. Speed-recorder. No. 1,160,833; Nov. 16; Gaz. vol. 220; p. 869.
- Martin, Bertram T. (See Fleming, Eugene A., assignor.)
- Martin, Burloney L., Saulsbury, Tenn. Safe. No. 1,162,631; Nov. 30; Gaz. vol. 220; p. 1656.
- Martin, Carl, New York, N. Y. Ash-sifter. No. 1,138,679; May 11; Gaz. vol. 214; p. 373.
- Martin, Carl, New York, N. Y. Collision-prevention device. No. 1,156,366; Oct. 12; Gaz. vol. 219; p. 387.
- Martin, Charles E., Mansfield, Ohio. Roofing or sheeting. No. 1,149,204; Aug. 10; Gaz. vol. 217; p. 357.
- Martin, Charles E., Mansfield, Ohio. Removable barrel-head. No. 1,160,740; Nov. 16; Gaz. vol. 220; p. 907.
- Martin, Charles E., Hinton, Va., assignor of one-third to G. P. Fritz and one-third to C. R. Cole, Chicago, Ill. Spike or nail. No. 1,131,149; Mar. 9; Gaz. vol. 212; p. 488.
- Martin, Charles H., Worcester, Mass. Equalizing device for vehicles. No. 1,144,943; June 29; Gaz. vol. 215; p. 1473.
- Martin, Clarence E., Graysville, Ohio. Wire-stretcher. No. 1,147,525; July 20; Gaz. vol. 216; p. 932.
- Martin, Clarence F. (See Martin, Henry P., assignor.)
- Martin, Commodore V., assignor of one-fourth to E. Buckles and three-eighths to A. J. Edwards, Indianapolis, Ind. Vending-machine. No. 1,152,533; Sept. 7; Gaz. vol. 218; p. 57.
- Martin-Copeland Company. (See Morrarty, Andrew J., assignor.)
- Martin, Daniel W., Lufkin, Tex. Car-replacer. No. 1,134,212; Apr. 6; Gaz. vol. 213; p. 48.
- Martin, Edison P., Berry Creek, Cal. Crosscut-saw set. No. 1,159,974; Nov. 9; Gaz. vol. 220; p. 583.
- Martin, Edward. (See Kleman, Henry, assignor.)
- Martin, Edward H., Colfax, Cal. Butterfly-gate. No. 1,147,112; July 20; Gaz. vol. 216; p. 786.
- Martin, Emanuel A., New York, N. Y. Pneumatic suction-cleaner. No. 1,140,992; May 25; Gaz. vol. 214; p. 1253.
- Martin, Ernest A. (See Burden and Martin.)
- Martin, Eugene J., assignor of one-fifth to R. W. Thompson, Washington, D. C. Car-window cleaner. No. 1,153,095; Sept. 7; Gaz. vol. 218; p. 259.
- Martin, Frank B., assignor to Postum Cereal Co., Limited, Battle Creek, Mich. Top-flap-sealing machine for sealed cartons. No. 1,134,476; Apr. 6; Gaz. vol. 213; p. 143.
- Martin, Frank B., assignor to Postum Cereal Co., Ltd., Battle Creek, Mich. Flap folding and sealing machine. No. 1,136,353; Apr. 20; Gaz. vol. 213; p. 886.
- Martin, Frank B., assignor to Postum Cereal Co., Ltd., Battle Creek, Mich. Carton-making and flap-sealing machine. No. 1,136,354; Apr. 20; Gaz. vol. 213; p. 886.
- Martin, Frank B., assignor to Postum Cereal Co., Limited, Battle Creek, Mich. Carton-feeding mechanism. No. 1,137,227; Apr. 27; Gaz. vol. 213; p. 1236.
- Martin, Frank B., assignor to Postum Cereal Co., Ltd., Battle Creek, Mich. Puffed cereal flake. No. 1,161,323; Nov. 23; Gaz. vol. 220; p. 1159.
- Martin, Frank P., Williamsburg, Kans. Mold. No. 1,152,334; Aug. 31; Gaz. vol. 217; p. 1617.
- Martin, Fred G., and J. C. Crowther, London, England. Nail spike, and the like with soft-metal head. No. 1,148,245; July 27; Gaz. vol. 216; p. 1213.
- Martin, Frederick S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Laminated structure. No. 1,150,049; Aug. 17; Gaz. vol. 217; p. 723.
- Martin, Frederick W. (See Elvin and Martin.)
- Martin, Frederick W., assignor to J. S. Coffin, New York, N. Y. Sprinkler device for locomotives. No. 1,147,418; July 20; Gaz. vol. 216; p. 896.
- Martin, Frederick W., New York, assignor to J. L. Mohun, Brooklyn, N. Y. Metal roof for cars. No. 1,155,596; Oct. 5; Gaz. vol. 219; p. 94.
- Martin, Frederick W., New York, N. Y., assignor to Franklin Railway Supply Company, Wilmington, Del. Locomotive drifting-valve device. No. 1,163,100; Dec. 7; Gaz. vol. 221; p. 127.
- Martin, George A. (See Jones and Martin.)
- Martin, George A., trustee. (See Macklind, William R., assignor.)
- Martin, George C., Los Angeles, Cal. Shock-absorber. No. 1,137,997; May 4; Gaz. vol. 214; p. 96.
- Martin, George C., Los Angeles, assignor to S. A. Gulbertson, Jr., San Francisco, Cal. Pipe-wrench. No. 1,143,126; June 15; Gaz. vol. 215; p. 791.
- Martin, George H., Oklahoma, Okla. Rail-joint. No. 1,133,165; Mar. 23; Gaz. vol. 212; p. 1297.
- Martin, George S., et al. (See Martin and Jones, assignors.)
- Martin, George T. (See Bowman, Levi M., assignor.)
- Martin, Glenn L., assignor to Glenn L. Martin Company, Los Angeles, Cal. Packed parachute. No. 1,165,891; Dec. 28; Gaz. vol. 221; p. 1227.
- Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Alarm and lock control for cash-registers. No. 1,136,152; Apr. 20; Gaz. vol. 213; p. 814.
- Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Differential mechanism for accounting-machines. No. 1,153,328; Sept. 14; Gaz. vol. 218; p. 378.
- Martin, Hans, Vienna, Austria-Hungary. Foodstuff containing free lecithin and making same. No. 1,150,691; Aug. 17; Gaz. vol. 217; p. 949.
- Martin, Harry C., Philadelphia, Pa. Lubricating system. No. 1,157,241; Oct. 19; Gaz. vol. 219; p. 726.
- Martin, Harry J., assignor of one-half to G. T. Trommald, Portland, Oreg. Suspensory bandage. No. 1,164,950; Dec. 21; Gaz. vol. 221; p. 861.
- Martin, Henry P., assignor to C. F. Martin, Owensboro, Ky. Work-stand. No. 1,126,544; Jan. 26; Gaz. vol. 210; p. 1299.
- Martin, Horace E., Athens, Ga. Chain saw. No. 1,150,217; Aug. 17; Gaz. vol. 217; p. 784.
- Martin, Horace E., Athens, Ga. Chain saw. No. 1,150,218; Aug. 17; Gaz. vol. 217; p. 784.
- Martin, James, Philadelphia, Pa. Fire-escape. No. 1,159,975; Nov. 9; Gaz. vol. 220; p. 584.
- Martin, James H., Jr., Chicago, Ill. Thermostatic trap or valve. No. 1,162,725; Nov. 30; Gaz. vol. 220; p. 1688.
- Martin, James S., Dormont borough, assignor of one-half to W. C. Boyd, McKees Rocks, Pa. Dump-car. No. 1,153,939; Sept. 21; Gaz. vol. 218; p. 629.
- Martin, Jesse C., Jr., San Francisco, Cal. Train-pipe connection. No. 1,129,308; Feb. 23; Gaz. vol. 211; p. 1050.
- Martin, John C., Spokane, Wash. Washboiler attachment. No. 1,132,955; Mar. 23; Gaz. vol. 212; p. 1221.
- Martin, John J., St. Louis, Mo. Screen for headlights and other lamps. No. 1,141,718; June 1; Gaz. vol. 215; p. 224.
- Martin, Joseph. (See Smith and Martin.)
- Martin, Joseph, Brooklyn, N. Y. Sweat-band protector. No. 1,164,541; Dec. 14; Gaz. vol. 221; p. 677.
- Martin, Joseph B., Evanston, Wyo. Coaster. No. 1,128,810; Feb. 16; Gaz. vol. 211; p. 839.
- Martin, Laurence C., Providence, R. I. Eyeglass construction. No. 1,131,610; Mar. 9; Gaz. vol. 212; p. 647.
- Martin, Lawrence F., Kenosha, Wis. Garbage-wagon. No. 1,135,602; Apr. 13; Gaz. vol. 213; p. 581.
- Martin, Lillith, and J. L. Jones, assignors to G. S. Martin and M. Berger, Anderson, Ind. Pencil-holder. No. 1,134,691; Apr. 6; Gaz. vol. 213; p. 222.
- Martin, Louie H., Augusta, Me. Portable circular hand-saw. No. 1,133,443; Mar. 30; Gaz. vol. 212; p. 1431.
- Martin, Louis L., and R. A. McTavish, Toronto, Ontario, Canada. Hygienic protector for dental handpieces. No. 1,162,941; Dec. 7; Gaz. vol. 221; p. 71.
- Martin Marine Life Saving Devices. (See Gladstone, Ernest S., assignor.)
- Martin, Max B., Markneukirchen, Germany. Brass wind instrument. No. 1,158,384; Oct. 26; Gaz. vol. 219; p. 1188.
- Martin, Olaf O., Portland, Oreg., assignor to Elliott-Fisher Company, New York, N. Y. Type-writing machine. No. 1,136,028; Apr. 20; Gaz. vol. 213; p. 772.
- Martin, Olaf O., Portland, Oreg., assignor to Elliott-Fisher Company, Harrisburg, Pa. Paper supporting and feeding mechanism for type-writing machines. No. 1,159,404; Nov. 9; Gaz. vol. 220; p. 378.
- Martin, Oliver C., and F. Jaeger, Perth Amboy, N. J. Regenerating electrolytes. No. 1,148,522; Aug. 3; Gaz. vol. 217; p. 13.
- Martin, Perry S., Broadway, Va. Brooder. No. 1,160,186; Nov. 16; Gaz. vol. 220; p. 710.
- Martin, Robert, Irvington, N. J. Electric-motor-driven coal-cutter. No. 1,145,331; July 6; Gaz. vol. 216; p. 123.
- Martin, Sarpala, Ishpeming, Mich. Railway-tie. No. 1,141,811; June 1; Gaz. vol. 215; p. 253.
- Martin, Sidney, Cliftondale, Mass. Suspender. (Reissue.) No. 13,939; June 22; Gaz. vol. 215; p. 1249.
- Martin, Sidney C., Dulwich Village, England. Advertisement device. No. 1,154,124; Sept. 21; Gaz. vol. 218; p. 692.
- Martin, Stephen G., Chicago, Ill., assignor of one-third to W. O. Bartholomew, St. Louis, and one-third to E. Schaaf, St. Marys, Mo. Effecting oxidation of copper. No. 1,164,838; Dec. 21; Gaz. vol. 221; p. 822.
- Martin, Talbot G. (See Keith and Martin.)
- Martin, Talbot G., et al. (See Obergfell, Herbert F., assignor.)
- Martin, Talbot G., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Telephone-exchange system. No. 1,123,339; Jan. 5; Gaz. vol. 210; p. 49.
- Martin, Talbot G., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Non-interfering extension party-line telephone system. No. 1,151,544; Aug. 24; Gaz. vol. 217; p. 1298.
- Martin, Talbot G., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Automatic common-battery party-line telephone system. No. 1,151,546; Aug. 24; Gaz. vol. 217; p. 1298.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Telephone repeater system. No. 1,136,912; Apr. 20; Gaz. vol. 213; p. 1085.

- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange system. No. 1,155,672; Oct. 5; Gaz. vol. 219; p. 121.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Special-service telephone system. No. 1,159,855; Nov. 9; Gaz. vol. 220; p. 542.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange trunking system. No. 1,165,690; Dec. 28; Gaz. vol. 221; p. 1159.
- Martin, Talbot G., and J. Erickson, assignors, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Lock-out for extension or party-line telephones. No. 1,151,545; Aug. 24; Gaz. vol. 217; p. 1298.
- Martin, Talbot G., and F. Lubberger, assignors, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Automatic extension telephone system. No. 1,151,547; Aug. 24; Gaz. vol. 217; p. 1299.
- Martin, Theleshare, Lawrence, assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom. No. 1,140,520; May 25; Gaz. vol. 214; p. 1095.
- Martin, Theodore L., Muncie, Ind. Coin-carrier. No. 1,138,133; May 4; Gaz. vol. 214; p. 146.
- Martin, Thomas. (See Faye, William E., assignor.)
- Martin, Thomas F., Sabraton, W. Va. Guard for pots or crucibles. No. 1,130,184; Mar. 2; Gaz. vol. 212; p. 119.
- Martin, Thomas L., Jr., Oklahoma, Okla. Currency-wrapper. No. 1,162,501; Nov. 30; Gaz. vol. 220; p. 1615.
- Martin, Wallace R., St. Paul, Minn. Guard for circular saws. No. 1,125,364; Jan. 19; Gaz. vol. 210; p. 843.
- Martin, William D. (See Kearns and Martin.)
- Martin, William H., assignor of one-half to H. Wilson, Yountville, Cal. Revolving suspension-rack. No. 1,151,210; Aug. 24; Gaz. vol. 217; p. 1185.
- Martin, William H., assignor of one-half to H. Wilson, Yountville, and one-fourth to J. P. Visser, San Francisco, Cal. Revolving suspension-rack. No. 1,150,282; Aug. 17; Gaz. vol. 217; p. 808.
- Martin, William J., Cleveland, Ohio. Quoit. No. 1,138,234; May 4; Gaz. vol. 214; p. 179.
- Martin, William J., assignor of one-half to W. McIntyre, Buffalo, N. Y. Igniting device for explosive-engines.
- Martindale, Frank L., Bay City, Mich. Calculating-machine. No. 1,157,320; Oct. 19; Gaz. vol. 219; p. 753.
- Martine, James E. (See Pearne, Frank D., assignor.)
- Martineau, Clarence R. (See Martineau, William C. and C. R.)
- Martineau, William C., Albany, N. Y. Letter-box. No. 1,156,914; Oct. 19; Gaz. vol. 219; p. 609.
- Martineau, William C., assignor to Universal Car Seal and Appliance Company, Albany, N. Y. Car-seal. No. 1,133,303; Mar. 30; Gaz. vol. 212; p. 1381.
- Martineau, William C. and C. R., Albany, N. Y. Game device. No. 1,136,153; Apr. 20; Gaz. vol. 213; p. 815.
- Martineau, William C. and C. R., Albany, N. Y. Locking device. No. 1,149,205; Aug. 10; Gaz. vol. 217; p. 358.
- Martineau, William C. and C. R., Albany, N. Y. Car-door fastener. No. 1,165,013; Dec. 21; Gaz. vol. 221; p. 882.
- Martineau, William C. and C. R., Albany, N. Y. Car-door device. No. 1,165,014; Dec. 21; Gaz. vol. 221; p. 882.
- Martineau, William C. and C. R., Albany, N. Y. Car-door fastener. No. 1,165,993; Dec. 28; Gaz. vol. 221; p. 1263.
- Martinielli, Stephen, Jr., Watsonville, Cal. Attachment for bottle-washing machines. No. 1,130,418; Mar. 2; Gaz. vol. 212; p. 201.
- Martinez, Luis G. (See Tejera, Carlos E., assignor.)
- Martini, Carl, deceased; M. Martini, executor, assignor to Martini & Hüneke Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Apparatus for conveying liquid fuel. No. 1,132,482; Mar. 16; Gaz. vol. 212; p. 998.
- Martini & Hüneke Maschinenbau-Aktien-Gesellschaft. (See Hurlbrink, Ernst, assignor.)
- Martini & Hüneke Maschinenbau-Aktien-Gesellschaft. (See Kessler, Paul, assignor.)
- Martini & Hüneke Maschinenbau-Aktien-Gesellschaft. (See Martini, Carl, assignor.)
- Martini, Marie, executor. (See Martini, Carl.)
- Martini, Otto A. (See Kuroski and Martini.)
- Martynovich, Nikola, Youngstown, Ohio. Non-refillable bottle. No. 1,157,996; Oct. 26; Gaz. vol. 219; p. 1051.
- Martins, Jens C., assignor to Transmission Akts., Copenhagen, Denmark. Friction-gearing. No. 1,130,527; Mar. 2; Gaz. vol. 212; p. 241.
- Martins, Jens C., assignor to Transmission Akts., Copenhagen, Denmark. Frictional variable-speed gearing. No. 1,136,690; Apr. 20; Gaz. vol. 213; p. 1006.
- Martinson, George, Cleveland, Ohio. Snipe. No. 1,127,791; Feb. 9; Gaz. vol. 211; p. 436.
- Martinson, Edward, Superior, Wis. Oil-tank car. No. 1,146,636; July 13; Gaz. vol. 216; p. 603.
- Martinson, Edward, Superior, Wis. Oil-tank car. No. 1,156,794; Oct. 12; Gaz. vol. 219; p. 535.
- Martinsville Ignition Company. (See Wiltshire, Fred L., assignor.)
- Martter, Joseph F., Columbus, Ohio. Louver-sign. No. 1,150,444; Aug. 17; Gaz. vol. 217; p. 861.
- Martz, Randolph N., Frederick, Md. Hose-coupling. No. 1,128,474; Feb. 16; Gaz. vol. 211; p. 724.
- Martzolf, Antoine, New York, N. Y. Revolving dining-room floor. No. 1,140,176; May 18; Gaz. vol. 214; p. 938.
- Martzolf, Antoine, New York, N. Y. Illuminated match-stand and automatic electric waiter-signal. No. 1,149,933; Aug. 10; Gaz. vol. 217; p. 621.
- Marui, Iiyokichi, New York, N. Y. Haud-attachable blotter. No. 1,140,696; May 25; Gaz. vol. 214; p. 1153.
- Marvel, Edward W., Philadelphia, Pa. Key-lock. No. 1,166,380; Dec. 28; Gaz. vol. 221; p. 1404.
- Marvel, Edward W., Philadelphia, Pa. Key-lock. No. 1,166,381; Dec. 28; Gaz. vol. 221; p. 1404.
- Marvel, Edward W., assignor to W. H. Hollar, Philadelphia, Pa. Changeable-combination key-lock. No. 1,145,870; July 6; Gaz. vol. 216; p. 313.
- Marvel, Marvel & Wolcott. (See Williams, David T., assignor.)
- Marvin & Casler Company. (See Carr, James, assignor.)
- Marvin, E. L., executor. (See Parsons, William D.)
- Marvin, Ernest O., New York, N. Y. Apparatus to break hens from setting. No. 1,148,394; July 27; Gaz. vol. 216; p. 1267.
- Marvin, Robert S., Santa Monica, Cal. Apparatus for constructing hollow reinforced-concrete walls. No. 1,148,246; July 27; Gaz. vol. 216; p. 1213.
- Marvin, Roy L., assignor of one-third to A. O. Temple, Portland, Ore. Egg-holder. No. 1,124,050; Jan. 5; Gaz. vol. 210; p. 289.
- Marvin, Samuel W., Cambridge, assignor of one-third to C. G. Wells, Boston, and one-third to W. J. Marsh, Melrose, Mass. Printing-press bed-block. No. 1,147,334; July 20; Gaz. vol. 216; p. 864.
- Marwedel, Johann E., Uerdingen-on-the-Rhine, Germany. Continuous reduction of aromatic nitro-bodies. No. 1,124,776; Jan. 12; Gaz. vol. 210; p. 597.
- Marwedel, Johann E., Cologne-Ehrenfeld, assignor to Chemische Fabriken vorm. Weiler-ter-Meer, Uerdingen-on-the-Rhine, Germany. Mixing apparatus. No. 1,166,139; Dec. 28; Gaz. vol. 221; p. 1316.
- Marx, Fred, assignor to R. M. Everett, Newark, N. J. Dust-collector. No. 1,123,564; Jan. 5; Gaz. vol. 210; p. 125.
- Marx, Henry C., Palmer, Kans., assignor to The Phonograph Company, East Boston, Mass. Playing mechanism for zithers. No. 1,150,283; Aug. 17; Gaz. vol. 217; p. 808.
- Marx, Henry C., Palmer, Kans., assignor to The Phonograph Company, East Boston, Mass. Keyed zither. No. 1,150,284; Aug. 17; Gaz. vol. 217; p. 809.
- Marx, Henry C., Palmer, Kans., assignor to The Phonograph Company, East Boston, Mass. Keyed zither. No. 1,150,285; Aug. 17; Gaz. vol. 217; p. 809.
- Marx, Karl. (See Erlenbach and Marx.)
- Marx, Richard, Philadelphia, Pa. Razor-stropping device. No. 1,166,234; Dec. 28; Gaz. vol. 221; p. 1352.
- Marx, Robert, London, England. Pulp-heating apparatus. No. 1,149,381; Aug. 10; Gaz. vol. 217; p. 422.
- Marzetz, Peter, Chicago, Ill. Station-indicator for cars. No. 1,160,739; Nov. 16; Gaz. vol. 220; p. 907.
- Marzynski, Samuel, Boston, Mass. Sheet-metal can. No. 1,137,879; May 4; Gaz. vol. 214; p. 54.
- Mask, Jerry, Detroit, Mich. Anchor. No. 1,139,202; May 11; Gaz. vol. 214; p. 540.
- Mashek, Henry, assignor of one-half to B. Borders, Beaumont, Tex. Variable-speed-transmission gearing. No. 1,155,597; Oct. 5; Gaz. vol. 219; p. 94.
- Maschinen- und Apparate-Fabrik A. R. Ahrendt & Co. (See Heylandt, Paul, assignor.)
- Maschinenfabrik Augsburg-Nürnberg A. G. (See Ulmer, Victor, assignor.)
- Maschinenfabrik Augsburg-Nürnberg A. G. (See Wollner, Carl A., assignor.)
- Maschinenfabrik Kappel A. G. (See Knecht, Johann J., assignor.)
- Maschinenfabrik Oerlikon. (See Knöpfli, Otto, assignor.)
- Maschinenfabrik Rockstroh & Schneidernachf. Aktiengesellschaft. (See Horn, Josef, assignor.)
- Maschinenfabrik Thyssen & Co., Aktiengesellschaft. (See Koller, Bernhard, assignor.)
- Mashbir, Marcus, New York, N. Y. Sewing-machine finger-guard. No. 1,146,892; July 20; Gaz. vol. 216; p. 710.
- Mashek, George J., Newark, N. J. Drying and baking oven. No. 1,157,658; Oct. 19; Gaz. vol. 219; p. 868.
- Mashek, George J., Newark, N. J. Briquetting-press. No. 1,164,657; Dec. 21; Gaz. vol. 221; p. 758.
- Mask, John L. (See Terrell and Mask.)
- Maskrey, Arthur J. (See Carnahan and Maskrey.)
- Maskrey, Arthur J., assignor of one-half to J. E. Carnahan, Canton, Ohio. Oxidizing steel or iron sheets. No. 1,141,719; June 1; Gaz. vol. 215; p. 224.
- Maskrey, George W., and E. Sheldon, Willow River, Minn. Mortar-spreader. No. 1,125,146; Jan. 19; Gaz. vol. 210; p. 763.
- Masland, Walter E. (See Sparre and Masland.)
- Maslanik, Josef. (See Neznalski and Maslanik.)
- Masler, Abraham, New York, N. Y. Combined tape and thread holder. No. 1,135,125; Apr. 13; Gaz. vol. 213; p. 416.
- Masler, Abraham, New York, N. Y. Combined machine-cover and chair. No. 1,156,367; Oct. 12; Gaz. vol. 219; p. 387.

Alphabetical list of patentees—Continued.

- Mason, Arthur C., and A. T. Sturt, Flint, Mich., assignors to Chevrolet Motor Company of New York, Inc., New York, N. Y. Antifriction wheel-bearing. No. 1,163,026; Dec. 7; Gaz. vol. 221; p. 102.
- Mason, Arthur J. (See Hoover and Mason.)
- Mason, Charles F., Cortland, N. Y. Gas-lighting device. No. 1,127,476; Feb. 9; Gaz. vol. 211; p. 326.
- Mason, Charles F., Cortland, N. Y. Gas-lighting device. No. 1,127,477; Feb. 9; Gaz. vol. 211; p. 326.
- Mason, Charles F., Cortland, N. Y. Gas-lighting device. No. 1,127,478; Feb. 9; Gaz. vol. 211; p. 327.
- Mason, Charles T., Sumter, S. C. assignor to Sumter Electrical Company. Ignition-dynamo. No. 1,126,676; Jan. 26; Gaz. vol. 210; p. 1346.
- Mason, Charles T., Sumter, S. C. assignor to Sumter Electrical Company. Ignition-dynamo. No. 1,133,990; Mar. 30; Gaz. vol. 212; p. 1622.
- Mason, Charles T., Sumter, S. C. assignor to Sumter Electrical Company. Ignition-dynamo. No. 1,140,386; May 25; Gaz. vol. 214; p. 1045.
- Mason, Charles T., Sumter, S. C. assignor to Sumter Electrical Company. Ignition-dynamo. No. 1,140,993; May 25; Gaz. vol. 214; p. 1259.
- Mason, Charles T., Sumter, S. C. assignor, by mesne assignments, to Splidorf Electrical Company, Newark, N. J. Ignition-dynamo. No. 1,165,374; Dec. 21; Gaz. vol. 221; p. 1008.
- Mason, Frank L., and H. G. Bendix, New York, N. Y. Arch-supporting shank for shoes. No. 1,147,526; July 20; Gaz. vol. 216; p. 923.
- Mason, Frank N., Pittsburgh, Pa. Electric battery. No. 1,149,665; Aug. 10; Gaz. vol. 217; p. 526.
- Mason, Frank N., Pittsburgh, Pa. Refillable electric battery. No. 1,149,666; Aug. 10; Gaz. vol. 217; p. 526.
- Mason, Franklin P., New York, N. Y. Centrifugal clarifier for liquids. No. 1,126,247; Jan. 26; Gaz. vol. 210; p. 1192.
- Mason, Fred H., and J. Allen, Scranton, Pa. Coal-chute. No. 1,155,942; Oct. 5; Gaz. vol. 219; p. 214.
- Mason, Frederic H., deceased, Spokane, Wash.; M. H. Mason, C. A. Bartleson, and R. R. Gill, executors. Valve. No. 1,146,009; July 13; Gaz. vol. 216; p. 381.
- Mason, Frederic H., deceased, Spokane, Wash.; M. H. Mason, C. A. Bartleson, and R. R. Gill, executors. Push button mechanism. No. 1,146,010; July 13; Gaz. vol. 216; p. 382.
- Mason, Frederic H., deceased, Spokane, Wash.; M. H. Mason, C. A. Bartleson, and R. R. Gill, executors. Valve. No. 1,146,011; July 13; Gaz. vol. 216; p. 382.
- Mason, Frederic H., deceased, Spokane, Wash.; M. H. Mason, C. A. Bartleson, and R. R. Gill, executors. Valve. No. 1,146,012; July 13; Gaz. vol. 216; p. 383.
- Mason, Frederic G. (See Johnson and Mason.)
- Mason, George H., Lubec, Me. Tool-holder. No. 1,131,538; Mar. 9; Gaz. vol. 212; p. 622.
- Mason, Henry M. (See Burns and Mason.)
- Mason, Homer E., Delhi, N. Y. Device for holding piston-rings in their grooves. No. 1,144,608; June 29; Gaz. vol. 215; p. 1357.
- Mason, Hosea A., assignor of one-fourth to S. G. O'Neill and one-fourth to W. E. Quigley, Taunton, Mass. Dust-cap for fire-valves. No. 1,157,564; Oct. 19; Gaz. vol. 219; p. 837.
- Mason, Irving W., Aberdeen, Wash. Split-level. No. 1,154,873; Sept. 28; Gaz. vol. 218; p. 976.
- Mason, Jesse A., Mannington, W. Va. Casing-coupling. No. 1,141,910; June 1; Gaz. vol. 215; p. 290.
- Mason, John T., Kewanee, Ill. Automatic nest-box. No. 1,153,808; Sept. 14; Gaz. vol. 218; p. 549.
- Mason, Joseph, and W. J. Reattle, assignors to Pyro-Pin Manufacturing Company, Fitchburg, Mass. Game apparatus. No. 1,163,432; Dec. 7; Gaz. vol. 221; p. 244.
- Mason, Lewis T. (See Strouville and Mason.)
- Mason, M. Clinton. (See Shortt, Edward G., assignor.)
- Mason, Mollie H., et al., executors. (See Mason, Frederic H.)
- Mason Regulator Company, The, trustee. (See Melcher, George S., assignor.)
- Mason, Rhener S., Eddyville, Ky. Horse-collar. No. 1,155,943; Oct. 5; Gaz. vol. 219; p. 214.
- Mason, Thomas B., Trenton, N. J. Horseshoe. No. 1,162,632; Nov. 30; Gaz. vol. 220; p. 1656.
- Mason, Walter L., Red Bank, N. J. assignor to J. W. Ivory, Philadelphia, Pa. Dental marking and spacing tool. No. 1,134,692; Apr. 6; Gaz. vol. 213; p. 222.
- Mason, William H., Easton, Pa. Preparing holes for blasting. No. 1,165,691; Dec. 28; Gaz. vol. 221; p. 1159.
- Masor, Daniel, New York, N. Y. Expansion-bolt. No. 1,130,003; Mar. 2; Gaz. vol. 212; p. 57.
- Mass, Adolph, Newark, N. J. Liquid-measuring faucet. No. 1,159,976; Nov. 9; Gaz. vol. 220; p. 584.
- Mass, Adolph, Newark, N. J. Liquid-meter. No. 1,165,429; Dec. 28; Gaz. vol. 221; p. 1066.
- Mass, August G., Cincinnati, Ohio. Fire-escape. No. 1,128,025; Feb. 9; Gaz. vol. 211; p. 518.
- Mass, Henry W., assignor of one-half to J. A. Ryan, Rochester, N. Y. Article-holding attachment for receptacles. No. 1,161,237; Nov. 23; Gaz. vol. 220; p. 1129.
- Massa, Robert F., Fort Wayne, Ind. assignor to H. W. Johns-Manville Company. Thermostat. No. 1,146,637; July 13; Gaz. vol. 216; p. 603.
- Massachusetts Chemical Company. (See Chamberlin and Moulton, assignors.)
- Massachusetts Saw Works. (See Hutton, Amos, assignor.)
- Masse, Isidor. (See Klumpp, Gottlob, assignor.)
- Massey, Bonner W., East Macon, and T. J. Goodwin, South Macon, Ga. Valve-cleaner. No. 1,159,977; Nov. 9; Gaz. vol. 220; p. 584.
- Massey, E. C. (See McNeil, George C., assignor.)
- Massey-Harris Company. (See Buchanan and Gaffney, assignors.)
- Massey-Harris Company. (See East, Matthew H., assignor.)
- Massey-Harris Company. (See Findley and Rieske, assignors.)
- Massey-Harris Company. (See Johnston, Andrew, assignor.)
- Massey-Harris Company. (See Jones, Lyman M., assignor.)
- Massey-Harris Company. (See Van Sickle, Paul A., assignor.)
- Massey-Harris Company. (See Verity, Morley F., assignor.)
- Massey-Harris Company. (See Verity, William J., assignor.)
- Massing, Charles A., assignor to Griswold Manufacturing Company, Erie, Pa. Stove-damper. No. 1,146,807; July 20; Gaz. vol. 216; p. 681.
- Masson, Jules, assignor to Société Anonyme des Telegraphes Edouard Belin, Paris, France. Indicator of speeds of rotation. No. 1,135,827; Apr. 13; Gaz. vol. 213; p. 661.
- Mast, Foos & Co. (See Rayner, William H., assignor.)
- Mast, Louis L., West Milton, Ohio. Coupling for sectional rods. No. 1,140,052; May 18; Gaz. vol. 214; p. 895.
- Mast, William H., Davenport, Iowa, dedicated to the Government of the United States. Planting-board. No. 1,161,714; Nov. 23; Gaz. vol. 220; p. 1294.
- Mast, William L., Arthur, Ill. Hitching device for traction-engines. No. 1,130,311; Mar. 2; Gaz. vol. 212; p. 163.
- Master, Albert, Park Ridge, Ill. Friction-clutch. No. 1,157,408; Oct. 19; Gaz. vol. 219; p. 785.
- Master, Chester A., and O. T. Wolnitzek, Bellville, Tex. Collapsible crate. No. 1,133,166; Mar. 23; Gaz. vol. 212; p. 1297.
- Masters, Arthur B., Christchurch, New Zealand. Means for the collection of fares in public conveyances. No. 1,148,979; Aug. 3; Gaz. vol. 217; p. 175.
- Masterson, George F., et al. (See Truesdel, John P., assignor.)
- Mastin, Charles I. E., Midland Park, N. J. Piston-rod packing. No. 1,150,050; Aug. 17; Gaz. vol. 217; p. 723.
- Mastin, James G., assignor, by mesne assignments, to J. G. Kellogg, Chicago, Ill. Grease-cup. No. 1,141,720; June 1; Gaz. vol. 215; p. 224.
- Mastin, James G., assignor, by mesne assignments, to J. G. Kellogg, Chicago, Ill. Atomizer. No. 1,141,721; June 1; Gaz. vol. 215; p. 225.
- Mastrocolo, Fileno, et al. (See Liberato, Nicola, assignor.)
- Masury, Alfred F. (See Hewitt and Masury.)
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Securing device for gears. No. 1,143,720; June 22; Gaz. vol. 215; p. 1022.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Gear-shifting mechanism. No. 1,147,877; July 27; Gaz. vol. 216; p. 1082.
- Matacotta, Santo E. P., New York, N. Y. Heel. No. 1,142,598; June 8; Gaz. vol. 215; p. 568.
- Matacotta, Santo E. P., assignor of one-half to E. Otidys, New York, N. Y. Smoking-pipe. No. 1,147,527; July 20; Gaz. vol. 216; p. 933.
- Matalene, Henry W., New York, N. Y. Barrette jewelry. No. 1,160,741; Nov. 16; Gaz. vol. 220; p. 908.
- Matava, Edward, Dudley, Pa. Elevator safety device. No. 1,145,250; July 6; Gaz. vol. 216; p. 97.
- Matchett, John H., Oakland, Cal. Horseshoe-pad. No. 1,163,938; Dec. 14; Gaz. vol. 221; p. 467.
- Matchette, Frank J., Milwaukee, Wis., assignor, by mesne assignments, to Richmond Radiator Company, New York, N. Y. Dust-collector. No. 1,157,242; Oct. 19; Gaz. vol. 219; p. 727.
- Matchette, Frank J., and R. Raddatz, Milwaukee, Wis., assignors, by mesne assignments, to Richmond Radiator Company, Wilmington, Del. Vacuum cleaning system. No. 1,150,950; Aug. 24; Gaz. vol. 217; p. 1096.
- Mateer, Jesse E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. High-voltage transformer. No. 1,129,499; Feb. 23; Gaz. vol. 211; p. 1117.
- Mateer, Jesse E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Terminal bushing. No. 1,129,500; Feb. 23; Gaz. vol. 211; p. 1118.
- Matheny, James W., Mobile, Ala. Convertible step-ladder and ironing-board. No. 1,153,558; Sept. 14; Gaz. vol. 218; p. 463.
- Matheny, John E., Valley Park, Mo. Check-row planter. No. 1,152,033; Aug. 31; Gaz. vol. 217; p. 1513.
- Mather, Alonzo C., Chicago, Ill. Pneumatic tire. No. 1,132,788; Mar. 23; Gaz. vol. 212; p. 1160.

Alphabetical list of patentees—Continued.

- Mather, George L., Akron, Ohio. Receipting device. No. 1,127,792; Feb. 9; Gaz. vol. 211; p. 436.
- Mathers, John A. (See Vidal and Mathers.)
- Mathers, William H. (See Nelson and Mathers.)
- Matheson, Einar, Woodland, Me. Moistening apparatus. No. 1,165,268; Dec. 21; Gaz. vol. 221; p. 972.
- Matheson, Howard W., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Producing condensation products. No. 1,151,113; Aug. 24; Gaz. vol. 217; p. 1150.
- Matheson, Howard W., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Colloiding carbohydrate esters and product thereof. No. 1,161,063; Nov. 23; Gaz. vol. 220; p. 1065.
- Matheson, Robert, assignor of one-half to J. A. Beach, Los Angeles, Cal. Apparatus for keeping fish out of irrigating-ditches. No. 1,150,445; Aug. 17; Gaz. vol. 217; p. 862.
- Matheson, Robert F., Ottawa, Ontario, Canada. Match lighter and extinguisher. No. 1,155,755; Oct. 5; Gaz. vol. 219; p. 149.
- Matheus, Karl, Chicago, Ill. Flue cleaning and straightening machine. No. 1,140,387; May 25; Gaz. vol. 214; p. 1045.
- Mathews, Charles, Cambridge, Ohio. Support. No. 1,139,204; May 11; Gaz. vol. 214; p. 560.
- Mathews, Frank J., Brill, Wis. Motor-sleigh. No. 1,154,423; Sept. 21; Gaz. vol. 218; p. 795.
- Mathews, Fred, assignor to C. C. Murphy, Chicago, Ill. Car-roof construction. No. 1,137,847; Apr. 27; Gaz. vol. 213; p. 1281.
- Mathews, Fred, assignor to C. C. Murphy, Chicago, Ill. Supporting-bracket for car-doors. No. 1,148,607; Aug. 3; Gaz. vol. 217; p. 45.
- Mathews, Fred, assignor to C. C. Murphy, Chicago, Ill. Supporting-bracket for car-doors. No. 1,149,667; Aug. 10; Gaz. vol. 217; p. 527.
- Mathews, Fred, assignor to C. C. Murphy, Chicago, Ill. Carline. No. 1,161,498; Nov. 23; Gaz. vol. 220; p. 1221.
- Mathews, Fred, Chicago, and E. G. Chenoweth, Blue Island, assignors to C. C. Murphy, Chicago, Ill. Ladder. No. 1,134,087; Mar. 30; Gaz. vol. 212; p. 1656.
- Mathews Gravity Carrier Company. (See Buck, Herman J., assignor.)
- Mathews Gravity Carrier Company. (See Moore, Frank E., assignor.)
- Mathews, Lee G., Brandon, Wis. Harvester. No. 1,162,869; Dec. 7; Gaz. vol. 221; p. 48.
- Mathews, William N., Wellsburg, W. Va. Glass-furnace. No. 1,152,828; Sept. 7; Gaz. vol. 218; p. 165.
- Mathewson, Emerson W., Toronto, Ontario, Canada. Presser-foot for sewing-machines. No. 1,147,960; July 27; Gaz. vol. 216; p. 1111.
- Mathey, John J., Robey, S. D. Corn-tipper. No. 1,131,938; Mar. 16; Gaz. vol. 212; p. 800.
- Mathey, John J., and T. E. Williams, Robey, S. D. Agricultural implement. No. 1,137,228; Apr. 27; Gaz. vol. 213; p. 1236.
- Mathisen, Ole M., deceased, La Crosse, Wis., assignor, by mesne assignments, of one-half to Wheeling Can Company, Wheeling, W. Va.; O. M. Schlabbach, La Crosse, Wis., administrator. Means for attaching handles to containers. No. 1,142,112; June 8; Gaz. vol. 215; p. 398.
- Matisse, Albert C. (See Matisse, Carl A. and A. C.)
- Matisse, Carl A. and A. C., New York, N. Y. Projecting lamp. No. 1,124,051; Jan. 5; Gaz. vol. 210; p. 290.
- Matlock, Thomas, Marshall, Ark., assignor of one-half to C. L. Boughner, St. John, Kans. Cotton-picking machine. No. 1,147,961; July 27; Gaz. vol. 216; p. 1112.
- Matlock, Thomas, Marshall, Ark., assignor of one-half to C. L. Boughner, St. John, Kans. Cotton-harvester. No. 1,149,458; Aug. 10; Gaz. vol. 217; p. 449.
- Matsler, David W., Kingston, Okla. Ventilator-fan. No. 1,153,872; Sept. 14; Gaz. vol. 218; p. 573.
- Matson, Carl A., Lynn, assignor of one-half to A. M. Hoyt, Swampscott, Mass. Heel-burnishing machine. No. 1,141,878; June 1; Gaz. vol. 215; p. 276.
- Matson, John A., New York, N. Y. Non-refillable bottle. No. 1,134,885; Apr. 6; Gaz. vol. 213; p. 288.
- Matson, Louis M. (See Page, Roscoe F., assignor.)
- Matson, Nels S., Fargo, N. D. Automobile steering device. No. 1,152,194; Aug. 31; Gaz. vol. 217; p. 1568.
- Matsuda, Riechi, Chicago, Ill. Focusing-hood for cameras. No. 1,141,970; June 8; Gaz. vol. 215; p. 345.
- Matt, Albert E., Stillwell, Ind. Bottle-stopper. No. 1,153,240; Sept. 14; Gaz. vol. 218; p. 347.
- Mattatuck Manufacturing Company, The. (See Welton, Harry C., assignor.)
- Matte, Hubert P. T., New York, N. Y. Surveying-telescope. No. 1,149,668; Aug. 10; Gaz. vol. 217; p. 527.
- Matter, Albert J., Portland, Oreg. Concentrator. No. 1,161,945; Nov. 30; Gaz. vol. 220; p. 1423.
- Matter, Gustav A., Brooklyn, N. Y. Window-screen. No. 1,145,603; July 6; Gaz. vol. 216; p. 219.
- Matter, Gustave O. (See Jaeckel and Matter.)
- Matter, Isaac W., et al. (See Glover, Beverly W., assignor.)
- Mattes, Charles M., New York, N. Y. Front drive mechanism. No. 1,163,677; Dec. 14; Gaz. vol. 221; p. 374.
- Mattes, Edward D., assignor to Decatur Brick Manufacturing Company, Decatur, Ill. Brick-machine. No. 1,160,307; Nov. 16; Gaz. vol. 220; p. 752.
- Mattes, Henry, assignor of one-half to G. E. Poehn, New York, N. Y. Portable knockdown sheltered cot. No. 1,135,707; Apr. 13; Gaz. vol. 213; p. 619.
- Matteson, Alton H., Cambridge Springs, Pa. Sandpapering-machine. No. 1,159,696; Nov. 9; Gaz. vol. 220; p. 482.
- Matthaei, Curt, Offenbach-on-the-Main, Germany. Belt-connecting means. No. 1,134,146; Apr. 6; Gaz. vol. 213; p. 22.
- Matthaei, Max, Frankfort-on-the-Main, Germany. Built-up iron railway-sleeper. No. 1,143,415; June 15; Gaz. vol. 215; p. 894.
- Matthay, Tobias, London, England, assignor to Boston Music Company, Boston, Mass. Practice-triangle. No. 1,161,324; Nov. 23; Gaz. vol. 220; p. 1160.
- Matthes, Julius H., assignor to The Arkon Carbon Co., Chicago, Ill. Paint. No. 1,145,782; July 6; Gaz. vol. 216; p. 282.
- Matthes, Samuel S., Mansfield, Ohio, assignor to National Chemical Company, Syracuse, N. Y. Collar shaping and edging machine. No. 1,157,321; Oct. 19; Gaz. vol. 219; p. 754.
- Matthews, Alonzo B., Durham, N. C. Writing-desk. No. 1,143,416; June 15; Gaz. vol. 215; p. 894.
- Matthews, Claude L., assignor to W. N. Matthews and Brother, St. Louis, Mo. Ground-anchor. No. 1,142,347; June 8; Gaz. vol. 215; p. 479.
- Matthews, Edwin, Hereford, England. Gate or door fastening. No. 1,131,403; Mar. 9; Gaz. vol. 212; p. 576.
- Matthews, Edwin S., New York, N. Y. Hydraulic-motor valve. No. 1,165,430; Dec. 28; Gaz. vol. 221; p. 1067.
- Matthews, Edwin S., assignor to J. S. Hoyt and W. H. Woodin, New York, N. Y. Automatic stop-valve mechanism. No. 1,132,203; Mar. 16; Gaz. vol. 212; p. 896.
- Matthews, Francis E., and H. J. W. Bliss, London, England. Manufacture of unsaturated hydrocarbons and intermediate compounds. No. 1,144,558; June 29; Gaz. vol. 215; p. 1341.
- Matthews, Francis E., Blackheath, and H. J. W. Bliss, Stockwell, London, England. Manufacture of dibalogen paraffin. No. 1,153,524; Nov. 2; Gaz. vol. 220; p. 41.
- Matthews, James, Leeds, Iowa. Feed-trough. No. 1,126,815; Feb. 2; Gaz. vol. 211; p. 53.
- Matthews, James E., assignor to Sargent & Company, New Haven, Conn. Flush bolt. No. 1,162,795; Dec. 7; Gaz. vol. 221; p. 22.
- Matthews, James H., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Means for embossing. No. 1,145,251; July 6; Gaz. vol. 216; p. 97.
- Matthews, John W., Oregon, Ill. Power-transmission mechanism. No. 1,150,446; Aug. 17; Gaz. vol. 217; p. 862.
- Matthews, Joseph, Newburyport, assignor of one-half to W. H. Hastings, Malden, Mass. Grease-cup. No. 1,156,302; Oct. 12; Gaz. vol. 219; p. 363.
- Matthews, Joseph, E. W. Freeman, and W. H. S. Bateman, Philadelphia, Pa. Multiple-sash-operating device. No. 1,139,205; May 11; Gaz. vol. 214; p. 561.
- Matthews Manufacturing Company. (See Morton, Fred S., assignor.)
- Matthews, Percy W. (See Atterbury and Matthews.)
- Matthews, Richard M., assignor of one-half to H. C. Borman, Metropolis, Ill. Automatic window-screen. No. 1,150,000; Aug. 10; Gaz. vol. 217; p. 646.
- Matthews, Scott J., Port Clinton, Ohio. Draft mechanism. No. 1,146,339; July 13; Gaz. vol. 216; p. 496.
- Matthews, Sydney E., Victoria, British Columbia, Canada. Music-leaf turner. No. 1,165,431; Dec. 28; Gaz. vol. 221; p. 1067.
- Matthews, Thomas O., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Hand-stamp. No. 1,149,849; Aug. 10; Gaz. vol. 217; p. 591.
- Matthews, Wayne, Oakland, Cal. Fountain-brush. No. 1,138,772; May 11; Gaz. vol. 214; p. 407.
- Matthews, William J., Newburgh, N. Y. Bib for overalls. No. 1,144,369; June 29; Gaz. vol. 215; p. 1278.
- Matthews, William J., assignor of one-half to H. H. Swift, Yoakum, Tex. Non-refillable bottle. No. 1,147,113; July 20; Gaz. vol. 216; p. 788.
- Matthews, William J., assignor of one-half to J. B. and H. L. Morris, Yoakum, Tex. Non-spillable oil-can. No. 1,145,252; July 6; Gaz. vol. 216; p. 97.
- Matthies, Gustav, and A. Rehberg, Jr., San Antonio, Tex. Flash-light. No. 1,151,114; Aug. 24; Gaz. vol. 217; p. 1150.
- Matthies, Robert, and J. A. Shepherd, Hammond, Ind. Dump-box. No. 1,127,479; Feb. 9; Gaz. vol. 211; p. 327.
- Matthies, William H., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,161,874; Nov. 30; Gaz. vol. 220; p. 1396.
- Matti, Max R., Falun, Sweden. Arrangement for reversing internal-combustion engines. No. 1,130,833; Mar. 9; Gaz. vol. 212; p. 379.
- Mattingly, Lan J., assignor of one-third to C. Mercer, Hardinsburg, Ky. Buggy-pole stay-chain. No. 1,126,545; Jan. 26; Gaz. vol. 210; p. 1299.

Alphabetical list of patentees—Continued.

- Mattison, Carl L., assignor to C. Mattison Machine Works, Beloit, Wis. Belt-sanding machine. No. 1,124,311; Jan. 12; Gaz. vol. 210; p. 429.
- Mattison, Carl L., assignor to C. Mattison Machine Works, Beloit, Wis. Belt-sander. No. 1,159,060; Nov. 2; Gaz. vol. 220; p. 225.
- Mattison, Charley E., Sibley, La. Locomotive-pilot attachment. No. 1,137,880; May 4; Gaz. vol. 214; p. 54.
- Mattman, Emil, Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Brush-holder. No. 1,126,546; Jan. 26; Gaz. vol. 210; p. 1299.
- Mattman, Emil, Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Dynamo-electric machine. No. 1,137,510; Apr. 27; Gaz. vol. 213; p. 1337.
- Mattmann, Frank F., Montreal, Quebec, Canada. Automobile boat. No. 1,158,704; Nov. 2; Gaz. vol. 220; p. 102.
- Mattmiller, Charley A. (See Brunker and Mattmiller.)
- Mattson, Albert, Gurö, Sweden. Scissors. No. 1,162,796; Dec. 7; Gaz. vol. 221; p. 22.
- Mattson, Andrew, Bellingham, Wash. Seine. No. 1,141,128; June 1; Gaz. vol. 215; p. 13.
- Matty, Leo J., New York, N. Y. Combination-garment. No. 1,147,962; July 27; Gaz. vol. 216; p. 1112.
- Matych, Frederick J., New York, N. Y. Slug-trimmer. No. 1,164,658; Dec. 21; Gaz. vol. 221; p. 758.
- Matz, Earnest. (See Boser and Matz.)
- Matz, Sylvester J. (See Landgraf, Albert N., assignor.)
- Matzerath, Otto, Aachen, Germany. Apparatus for analyzing gases. No. 1,154,792; Sept. 28; Gaz. vol. 218; p. 950.
- Mau, Clayton C., Fredonia, N. Y. Fish-hook. No. 1,156,795; Oct. 12; Gaz. vol. 219; p. 536.
- Mauck, Hayden B. (See Green and Mauck.)
- Mauck, John A., Princeton, Ind. Shock-absorber and supplementary spring. No. 1,142,599; June 8; Gaz. vol. 215; p. 569.
- Mauck, Marcellus M., Atlanta, Ga. Amusement device. No. 1,133,489; Mar. 30; Gaz. vol. 212; p. 1445.
- Mauck, Victor, and K. Howie, Conshohocken, Pa., assignors to John Wood Manufacturing Company. Water-heater. No. 1,126,248; Jan. 26; Gaz. vol. 210; p. 1192.
- Maude W. Russell New Method Dress Tailoring and Garment Cutting Co. (See Russell, Maude W., assignor.)
- Mauer, Jacob P., Buffalo, N. Y. Automobile-lock. No. 1,152,117; Aug. 31; Gaz. vol. 217; p. 1542.
- Mauer, Michael, Detroit, Mich. Closet-fushing apparatus. No. 1,141,354; June 1; Gaz. vol. 215; p. 94.
- Mauersberger, Walther, Penig, assignor to Allgemeine Treuhand-Aktiengesellschaft, Dresden, Germany. Apparatus for shaping pulp layers. No. 1,149,669; Aug. 10; Gaz. vol. 217; p. 528.
- Maugras, Hippolyte, Marseille, France. Ventilator. No. 1,133,304; Mar. 30; Gaz. vol. 212; p. 1381.
- Maul, Christ, assignor to A. Magnus Sons Company, Chicago, Ill. Hydropneumatic gaging apparatus. No. 1,159,518; Nov. 9; Gaz. vol. 220; p. 418.
- Maul, Christian. (See Farrall and Maul.)
- Maul, Elwood F., West Philadelphia, Pa. Sash-fastener. No. 1,163,838; Dec. 14; Gaz. vol. 221; p. 433.
- Maul, Henry C., assignor to The Michigan Stove Company, Detroit, Mich. Combination coal and gas range. No. 1,154,038; Sept. 21; Gaz. vol. 218; p. 663.
- Maul, Margaret, *et al.* (See Swyers, Brice P., assignor.)
- Maull, James L., Crescent City, Fla. Fruit-sorting machine. No. 1,124,486; Jan. 12; Gaz. vol. 210; p. 493.
- Maull, James L., Crescent City, Fla. Machine for washing fruit. No. 1,124,487; Jan. 12; Gaz. vol. 210; p. 949.
- Mauliar, Frank B., *et al.* (See Mumford, John, assignor.)
- Maurer, David M. (See Taby, Straub, and Maurer.)
- Maurer, Edward, Freeland, Mich. Furrow-gage for plows. No. 1,144,370; June 29; Gaz. vol. 215; p. 1279.
- Maurer, Emil, Berne, Switzerland. Dish-washer. No. 1,124,318; Jan. 12; Gaz. vol. 210; p. 432.
- Maurer, Erwin, Jamaica, N. Y. Burner attachment. No. 1,166,140; Dec. 28; Gaz. vol. 221; p. 1317.
- Maurer, Howard T., Philadelphia, Pa. Phonograph-record cabinet. No. 1,154,263; Sept. 21; Gaz. vol. 218; p. 740.
- Maurer, Martin, Pueblo, Colo. Railway track-scale. No. 1,149,382; Aug. 10; Gaz. vol. 217; p. 422.
- Maurer, Oscar V. (See Schatzel, L. J., assignor.)
- Maurice, Thomas R. T., New York, N. Y. Food product. No. 1,163,433; Dec. 7; Gaz. vol. 221; p. 245.
- Maurier, Leon N. (See Carrel, Claude M., assignor.)
- Mausser, Alexius, *et al.*, heirs. (See Mausser, Paul.)
- Mausser, Maria J., *et al.*, heirs. (See Mausser, Paul.)
- Mausser, Maria M., *et al.*, heirs. (See Mausser, Paul.)
- Mausser, Max, *et al.*, heirs. (See Mausser, Paul.)
- Mausser, Paul, Oberndorf-on-the-Neckar, Germany. Automatic firearm. No. 1,125,578; Jan. 19; Gaz. vol. 210; p. 916.
- Mausser, Paul, Oberndorf-on-the-Neckar, Germany. Box-magazine for firearms. No. 1,129,884; Mar. 2; Gaz. vol. 212; p. 18.
- Mausser, Paul, Oberndorf, Germany. Automatic firearm. No. 1,130,312; Mar. 2; Gaz. vol. 212; p. 163.
- Mausser, Paul, Oberndorf-on-the-Neckar, Germany. Automatic firearm. No. 1,171,721; Mar. 16; Gaz. vol. 212; p. 720.
- Mausser, Paul, Oberndorf-on-the-Neckar, Germany. Device for securing telescope-sights to firearms. No. 1,132,105; Mar. 16; Gaz. vol. 212; p. 859.
- Mausser, Paul, deceased; F. Elchhorn, administrator, Oberndorf-on-the-Neckar, Germany. Automatic firearm. No. 1,159,059; Nov. 2; Gaz. vol. 220; p. 224.
- Mausser, Paul, deceased, Oberndorf-on-the-Neckar, Germany; M. J. Mausser, M. A. Schneider, M. M. Mausser, M. Mausser, A. W. Schneider, L. Denk, and A. Mausser, heirs. Safety device for firearms. No. 1,150,610; Aug. 17; Gaz. vol. 217; p. 921.
- Mausser, Paul, deceased, Oberndorf-on-the-Neckar, Germany; M. J. Mausser, M. A. Schneider, M. M. Mausser, M. Mausser, A. W. Schneider, L. Denk, and A. Mausser, heirs. Firing mechanism for automatic firearms. No. 1,150,611; Aug. 17; Gaz. vol. 217; p. 921.
- Mausk, Herbert, Lakewood, assignor to The National Malleable Castings Company, Cleveland, Ohio. Hand brake mechanism. No. 1,155,328; Sept. 28; Gaz. vol. 218; p. 1131.
- Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Planetary centrifugal separator. No. 1,126,547; Jan. 26; Gaz. vol. 210; p. 1300.
- Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Centrifugal apparatus. No. 1,146,269; July 13; Gaz. vol. 216; p. 473.
- Mavor & Coulson. (See Mavor, Samuel M., assignor.)
- Mavor, Samuel M., assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Mining-machine. No. 1,124,159; Jan. 5; Gaz. vol. 210; p. 327.
- Maw, Percival T., Nutfield, England. Horse or other traction drawn hay-rake. No. 1,148,181; July 27; Gaz. vol. 216; p. 1192.
- Max-Kretschmer, Gottfried R., assignor to Firm of R. O. Meyer, Hamburg, Germany. Heater. No. 1,125,027; Jan. 12; Gaz. vol. 210; p. 685.
- Maxey, J. R., *et al.* (See Wright, John T., assignor.)
- Maxfield, Daniel E., assignor to B. F. Sturtevant Company, Boston, Mass. Blower. No. 1,128,475; Feb. 16; Gaz. vol. 211; p. 724.
- Maxfield, J. R., *et al.* (See Royall, John H., assignor.)
- Maxham, Lowell M., Boston, Mass. Life-guard. No. 1,164,542; Dec. 14; Gaz. vol. 221; p. 677.
- Maxin Manufacturing Company. (See Blomquist, John O., assignor.)
- Maxivolt Primary Battery Co. (See Csanyi, Henry, assignor.)
- Maxson, Levy S., U. S. Navy, assignor to E. D. Townsend, Montebello, Cal. Nut-lock. No. 1,161,499; Nov. 23; Gaz. vol. 220; p. 1221.
- Maxson, W. H., *et al.* (See Clark, George C., assignor.)
- Maxwell, Anne, Bayside, N. Y. Rag doll. No. 1,127,662; Feb. 9; Gaz. vol. 211; p. 387.
- Maxwell, Audley D., Byromville, Ga. Game-board. No. 1,145,783; July 6; Gaz. vol. 216; p. 282.
- Maxwell, Erastus M. and J. F., Cardinal, Va. Gas turbine engine. No. 1,139,696; May 18; Gaz. vol. 214; p. 768.
- Maxwell, George S., Newark, N. J., assignor to The Taximeter Register Company, Washington, D. C. Recording-taximeter. No. 1,138,680; May 11; Gaz. vol. 214; p. 373.
- Maxwell, Harley E., Glendale, W. Va. Paper dish. No. 1,127,480; Feb. 9; Gaz. vol. 211; p. 327.
- Maxwell, James F. (See Maxwell, Erastus M. and J. F.)
- Maxwell, James H., Seattle, Wash. Knockdown raft. No. 1,151,115; Aug. 24; Gaz. vol. 217; p. 1151.
- Maxwell, James T., *et al.* (See Van Vleet, Charles W., assignor.)
- Maxwell, Jesse H., assignor of one-half to S. G. Johnston, Barboursville, W. Va. Car-brake. No. 1,158,705; Nov. 2; Gaz. vol. 220; p. 103.
- Maxwell, Jesse H., Barboursville, W. Va. Wrench. No. 1,152,195; Aug. 31; Gaz. vol. 217; p. 1568.
- Maxwell, Lawrence. (See Mackin, John F., assignor.)
- Maxwell, Lawrence. (See Nordeen, August, assignor.)
- Maxwell, Lawrence. (See Welin, Peter, assignor.)
- Maxwell, Lawrence, receiver. (See Leschbrandt, Einar, assignor.)
- Maxwell Motor Company. (See Kelly, William, assignor.)
- Maxwell, Russell H., Trenton, N. J. Shield or guard for telephones. No. 1,142,600; June 8; Gaz. vol. 215; p. 569.
- Maxwell, Samuel E., Avalon, Pa. Heater. No. 1,147,878; July 27; Gaz. vol. 216; p. 1082.
- Maxwell, Thomas G., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,141,401; June 1; Gaz. vol. 215; p. 113.
- Maxwell, Thomas J. (See Goodpasture and Maxwell.)
- Maxwell, William J., *et al.* (See Peterson, Bror T., assignor.)
- Maxwell, William T., assignor of one-half to J. Gass, Pittsburgh, Pa. Clothes-rack. No. 1,156,699; Oct. 12; Gaz. vol. 219; p. 504.
- May, Albert C., London, England. Micrometer-gage. No. 1,133,652; Mar. 30; Gaz. vol. 212; p. 1506.
- May, Duncan, Barnesboro, Pa. Dirigible lamp-support for automobiles. No. 1,165,526; Dec. 28; Gaz. vol. 221; p. 1099.
- May, Frank, Long Island City, N. Y. Non-refillable bottle. No. 1,150,612; Aug. 17; Gaz. vol. 217; p. 922.

Alphabetical list of patentees—Continued.

- May, Gerald D., Washington, D. C. Cooling and lubricating device for vacuum-pumps. No. 1,156,700; Oct. 12; Gaz. vol. 219; p. 504.
- May, James D., Sr., Jay, Fla. Guano-distributor. No. 1,127,270; Feb. 2; Gaz. vol. 211; p. 213.
- May, James W., Huron, S. D. Incubator. No. 1,150,379; Aug. 17; Gaz. vol. 217; p. 840.
- May, Minnie M., Evansville, Ind. Combined necktie holder and stretcher. No. 1,142,722; June 8; Gaz. vol. 215; p. 608.
- May, Monroe, New York, N. Y. Smoking-pipe tester. No. 1,124,936; Jan. 12; Gaz. vol. 210; p. 653.
- May, Ralph O., Salem, Ind. Automatic stop for talking-machines. No. 1,128,171; Feb. 9; Gaz. vol. 211; p. 569.
- May, Tony. (See Merriman and May.)
- May, William F., Graphite, N. Y. Signal device. No. 1,165,269; Dec. 21; Gaz. vol. 221; p. 972.
- May, Willie B. (See Brown and May.)
- Mayall, Lewis A., Philadelphia, Pa., assignor to National Metal Edge Box Company. Machine for creasing card or other board for box-making. No. 1,126,816; Feb. 2; Gaz. vol. 211; p. 54.
- Mayberry, James D. (See Foss and Mayberry.)
- Mayer, Anton, Chicago, Ill. Airship. No. 1,125,365; Jan. 19; Gaz. vol. 210; p. 843.
- Mayer, Brantz, U. S. Navy. Transmission-gearing. No. 1,147,528; July 20; Gaz. vol. 216; p. 933.
- Mayer, Edward, *et al.* (See Chrisman, Loran T., assignor.)
- Mayer, Frank H., Englewood, Colo., assignor to Abbey & Imbrie, New York, N. Y. Leaf for fly-books. No. 1,148,111; July 27; Gaz. vol. 216; p. 1167.
- Mayer, Georg, assignor of one-half to C. Neu, Chicago, Ill. Cooking utensil. No. 1,128,995; Feb. 16; Gaz. vol. 211; p. 905.
- Mayer, George M., and F. T. Fowler, Chicago, Ill., assignors to Life Saving Devices Company. Resuscitating appliance. No. 1,157,655; Oct. 19; Gaz. vol. 219; p. 867.
- Mayer, Heinrich, and G. Schlatter, Arbon, Switzerland. Detachable wheel for motor-cars. No. 1,142,113; June 8; Gaz. vol. 215; p. 398.
- Mayer, James E., Bluefield, W. Va. Combined dental prop and mirror. No. 1,157,565; Oct. 19; Gaz. vol. 219; p. 837.
- Mayer, John, *et al.* (See Chrisman, Loran T., assignor.)
- Mayer, John, McKees Rocks, Pa. Hat-retaining device. No. 1,146,270; July 13; Gaz. vol. 216; p. 473.
- Mayer, Louis L., Vale, S. D. Scraping and leveling device. No. 1,162,182; Nov. 30; Gaz. vol. 220; p. 1506.
- Mayer, Moses. (See Reym and Mayer.)
- Mayer, Walter S., Taunton, Mass. Remote-control switch. No. 1,146,340; July 13; Gaz. vol. 216; p. 497.
- Mayer, William E. (See Egan and Mayer.)
- Mayer, William E., assignor to The Anti-Frost Stove Company, Cincinnati, Ohio. Automatic antifrost stove. No. 1,128,892; Feb. 16; Gaz. vol. 211; p. 868.
- Mayerhoff, Hugh C., Basic, Miss. Insect-collecting attachment for cultivators. No. 1,156,303; Oct. 12; Gaz. vol. 219; p. 363.
- Mayerle, George, San Francisco, Cal. Nose-guard for eyeglasses. No. 1,151,282; Aug. 24; Gaz. vol. 217; p. 1209.
- Mayers, Clayton W., Dresden, Me. Trap-nest. No. 1,165,270; Dec. 21; Gaz. vol. 221; p. 972.
- Mayers, Wilbur S., Fairmont, W. Va. Loading-machine. No. 1,155,598; Oct. 5; Gaz. vol. 219; p. 95.
- Mayes, James R., Springfield, and S. W. Eskew, Bardstown, Ky. License-number-display device. No. 1,133,991; Mar. 30; Gaz. vol. 212; p. 1622.
- Mayes, John. (See Mayes, Peter H., assignor.)
- Mayes, Peter H., assignor to himself and J. Mayes, Detroit, Mich. Spirit-level. No. 1,126,548; Jan. 26; Gaz. vol. 210; p. 1300.
- Mayfield, James W. (See Williams and Mayfield.)
- Mayfield, Robert M. (See Casteel and Mayfield.)
- Mayfields, Bernard, Baltimore, Md. Pump attachment for automobiles, &c. No. 1,133,992; Mar. 30; Gaz. vol. 212; p. 1622.
- Mayhall, Timothy D., Gloster, Miss. Peanut and potato digger. No. 1,131,850; Mar. 16; Gaz. vol. 212; p. 769.
- Mayland, Edwin S., New York, N. Y. Musical device. No. 1,136,355; Apr. 20; Gaz. vol. 213; p. 887.
- Mayland, Rowland H., New York, N. Y. Device for producing a buzz effect. No. 1,150,447; Aug. 17; Gaz. vol. 217; p. 863.
- Maynard, Frederick E., Berkeley, Cal. Rat-guard. No. 1,160,634; Nov. 16; Gaz. vol. 220; p. 869.
- Maynard, Joseph A., Ravenna, N. Y. Folding car-step. No. 1,149,934; Aug. 10; Gaz. vol. 217; p. 622.
- Maynard, Joseph A., Ravenna, N. Y. Watering-trough. No. 1,150,051; Aug. 17; Gaz. vol. 217; p. 723.
- Maynard, Joseph A., assignor of one-third to L. Paltenghi and one-third to O. Brook, Ravenna, N. Y. Watering-trough. No. 1,139,132; May 11; Gaz. vol. 214; p. 533.
- Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Automatic heel-nailing machine. No. 1,134,279; Apr. 6; Gaz. vol. 213; p. 72.
- Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,146,341; July 13; Gaz. vol. 216; p. 497.
- Mayo, Robert D. (See Mayo, Robert D. and R. D.)
- Mayo, Robert D., Cleveland, Ohio. Toilet-seat-disinfecting means. No. 1,132,204; Mar. 16; Gaz. vol. 212; p. 896.
- Mayo, Robert D. and R. D., Cleveland, Ohio. Sanitary toilet-seat. No. 1,165,986; Dec. 28; Gaz. vol. 221; p. 1260.
- Mayolino, Luis, Habana, Cuba. Wave-motor. No. 1,140,521; May 25; Gaz. vol. 214; p. 1095.
- Mayer, Enoch A., San Antonio, Tex. Piano-action. No. 1,135,386; Apr. 13; Gaz. vol. 213; p. 504.
- Mays Accounting Machine Company. (See Mays, James F., assignor.)
- Mays, Edward G., Wilmington, Del. Index device. No. 1,127,481; Feb. 9; Gaz. vol. 211; p. 328.
- Mays, James F., Birmingham, Ala., assignor, by mesne assignments, to Mays Accounting Machine Company, Asheville, N. C. Combined type-writer and calculator. No. 1,127,060; Feb. 2; Gaz. vol. 211; p. 139.
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Asheville, N. C. Calculating-machine. No. 1,127,061; Feb. 2; Gaz. vol. 211; p. 140.
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Asheville, N. C. Escape-ment mechanism. No. 1,165,337; Dec. 21; Gaz. vol. 221; p. 994.
- Mays, James F., Birmingham, Ala., assignor of one-half to J. C. Peterson, Jamestown, N. Y. Elapsed-time indicator. No. 1,160,110; Nov. 9; Gaz. vol. 220; p. 630.
- Mays, John H., Bonnie, Ill. Shoe-fastener. No. 1,149,073; Aug. 3; Gaz. vol. 217; p. 208.
- Maytag Company. (See Coffield and Bremer, assignors.)
- Maytag Company, The. (See Kranich, Frank G. N., assignor.)
- Maywald, Frederick J., Brooklyn, N. Y. Making heat-insulating material. No. 1,142,829; June 15; Gaz. vol. 215; p. 686.
- Maywood Packing Co. (See Beresford, Fred G., assignor.)
- Mazoyer, Leon J., West Hoboken, N. J. Non-removable bottle-stopper. No. 1,156,915; Oct. 19; Gaz. vol. 219; p. 609.
- Mazza, Ben, Grand Junction, Colo. Igniting mechanism. No. 1,160,927; Nov. 16; Gaz. vol. 220; p. 972.
- Mazza, Edoardo, Turin, Italy. Process and device for separation of the elements composing a gaseous mixture by means of centrifugal action. No. 1,137,774; May 4; Gaz. vol. 214; p. 18.
- Mazza, George M. (See Drew and Mazza.)
- Mazzei, William C., Los Angeles, Cal. Automobile boat. No. 1,135,126; Apr. 13; Gaz. vol. 213; p. 416.
- McAdam, Linus J., Barker, N. Y. Carbureter. No. 1,155,829; Oct. 5; Gaz. vol. 219; p. 177.
- McAdams, James, Sausalito, Cal. Solidified molasses and making same. No. 1,146,337; July 13; Gaz. vol. 216; p. 496.
- McAdams, Robert H., Due West, S. C. Automatic reservoir-forming plow. No. 1,124,930; Jan. 12; Gaz. vol. 210; p. 651.
- McAdams, Sylvester L., Cleveland, Ohio, assignor, by mesne assignments, to H. R. Loomis, trustee. Lubricating loose pulley and power-transmitting device. No. 1,125,357; Jan. 19; Gaz. vol. 210; p. 840.
- McAdams, Sylvester L., Cleveland, Ohio, assignor to The Cleveland Trolley Wheel Company. Bearing for trolley-wheels. No. 1,132,949; Mar. 23; Gaz. vol. 212; p. 1219.
- McAdams, Thomas J., Marion, Ill. Burner. No. 1,128,338; Feb. 16; Gaz. vol. 211; p. 677.
- McAdams, William A., Bay Shore, N. Y. Aluminum alloy. No. 1,146,185; July 13; Gaz. vol. 216; p. 444.
- McAdams, William A., Bayshore, N. Y. Money-transmitting order-sheet. No. 1,162,939; Dec. 7; Gaz. vol. 221; p. 71.
- McAfee, Almer M., Bayonne, N. J. Improving oils. No. 1,127,465; Feb. 9; Gaz. vol. 211; p. 322.
- McAfee, Almer M., New York, N. Y. Manufacture of aluminum chlorid. No. 1,144,304; June 22; Gaz. vol. 215; p. 1227.
- McAlear, James, Chicago, Ill. Vacuum-producing device. No. 1,148,601; Aug. 3; Gaz. vol. 217; p. 42.
- McAlear, James, Chicago, Ill. Valve. No. 1,148,602; Aug. 3; Gaz. vol. 217; p. 43.
- McAlear, James, Chicago, Ill. Vacuum-producing device. No. 1,148,603; Aug. 3; Gaz. vol. 217; p. 43.
- McAllister, George W., San Francisco, Cal. Drill-bit. No. 1,133,161; Mar. 23; Gaz. vol. 212; p. 1295.
- McAllister, George W., San Francisco, Cal. Drill-bit. No. 1,133,162; Mar. 23; Gaz. vol. 212; p. 1295.
- McAllister, John A., Madison, S. D. Wagon foot-rest. No. 1,143,770; June 22; Gaz. vol. 215; p. 1039.
- McAllister, John E. (See Ohmer and McAllister.)
- McAllister, Joseph. (See Wanamaker and McAllister.)
- McAllister, Wallace B., Camden, N. J., assignor to The J. G. Brill Company, Philadelphia, Pa. Sash-retainer. No. 1,155,830; Oct. 5; Gaz. vol. 219; p. 177.
- McAllister, William H., Newberry, Pa. Window-fastener. No. 1,143,417; June 15; Gaz. vol. 215; p. 895.
- McAllister, William H., Newberry, Pa. Caster. No. 1,162,627; Nov. 30; Gaz. vol. 220; p. 1655.
- McAlpin, Oscar W., Roseville, Cal. Hinge. No. 1,140,604; May 25; Gaz. vol. 214; p. 1123.

Alphabetical list of patentees—Continued.

- McArdle, John T., assignor of one-fourth to J. W. Dalton, Sandwich, and one-fourth to B. F. Glibby, Boston, Mass. Mouse-trap. No. 1,149,774; Aug. 10; Gaz. vol. 217; p. 564.
- McArthur, Alexander, Singer, Clydebank, Scotland, assignor to The Singer Manufacturing Company. Hemming and folding attachment for sewing-machines. No. 1,162,181; Nov. 30; Gaz. vol. 220; p. 1505.
- McArthur, Alexander P., and E. Fletcher, Chicago, Ill., assignors to Orator Manufacturing Company. Horn for phonographs. No. 1,150,215; Aug. 17; Gaz. vol. 217; p. 783.
- McArthur, Charles D., assignor to Blaw Collapsible Steel Centering Company, Pittsburgh, Pa. Centering device. No. 1,134,543; Apr. 6; Gaz. vol. 213; p. 168.
- McArthur, Charles D., assignor to Blaw Collapsible Steel Centering Company, Pittsburgh, Pa. Paving-form. No. 1,142,043; June 8; Gaz. vol. 215; p. 373.
- McArthur, Charles D., assignor to Blaw Steel Construction Company, Pittsburgh, Pa. Core-mold. No. 1,141,193; June 1; Gaz. vol. 215; p. 36.
- McArthur, Danil S. (See Cummings and McArthur.)
- McArthur, Ira H., and A. J. Carter, Meridian, Miss. Railway-car brake. No. 1,126,802; Feb. 2; Gaz. vol. 211; p. 49.
- McArthur, Warren, Jr., Chicago, Ill. Wick-burner. No. 1,152,742; Sept. 7; Gaz. vol. 218; p. 133.
- McArthur, Warren, Jr., Chicago, Ill., assignor to R. E. Dietz Company. Tubular lantern. No. 1,146,338; July 13; Gaz. vol. 216; p. 496.
- McArthur, William, *et al.* (See Perry and Kenworthy, assignors.)
- McAuley, Sherry, Atlanta, Ga. Projecting apparatus for motion-picture machines. No. 1,133,869; Mar. 30; Gaz. vol. 212; p. 1585.
- McAuley, William J., Revere, Mass. Size-tag for clothing. No. 1,142,720; June 8; Gaz. vol. 215; p. 607.
- McAvoy, Arthur R., Collie, Western Australia, Australia. Pneumatic control of inflowing water in damaged ships. No. 1,156,792; Oct. 12; Gaz. vol. 219; p. 535.
- McAvoy, Frank J., assignor to London Auto Supply Co., Chicago, Ill. Sectional limousine-door. No. 1,146,805; July 20; Gaz. vol. 216; p. 681.
- McBane, Walter W., Youngstown, Ohio, assignor to The William Tod Company. Controlling mechanism for reversing-engines. No. 1,130,993; Mar. 9; Gaz. vol. 212; p. 434.
- McBarron, William H. (See Nickol, Frederick C., assignor.)
- McBean, Duncan D., New York, N. Y. Tunnel construction. No. 1,151,958; Aug. 31; Gaz. vol. 217; p. 1486.
- McBean, Duncan D., New York, N. Y. Apparatus for constructing dry-docks. No. 1,160,180; Nov. 16; Gaz. vol. 220; p. 708.
- McBean, Duncan D., New York, N. Y. Tunnel construction. No. 1,163,096; Dec. 7; Gaz. vol. 221; p. 125.
- McBee, Charles F., Athens, Ohio. Bookbinding. No. 1,134,142; Apr. 6; Gaz. vol. 213; p. 21.
- McBee, Charles F., Athens, Ohio. File-sheets for loose-leaf files. No. 1,134,143; Apr. 6; Gaz. vol. 213; p. 22.
- McBee, Charles F., Athens, Ohio. Swinging evener-board for binding-machines. No. 1,149,775; Aug. 10; Gaz. vol. 217; p. 564.
- McBee, Charles F., Athens, Ohio. Pressure-bar for binding-machines. No. 1,149,776; Aug. 10; Gaz. vol. 217; p. 564.
- McBee, Charles F., Athens, Ohio. Loose-leaf file. No. 1,151,806; Aug. 31; Gaz. vol. 217; p. 1435.
- McBerty, Frank R., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,123,340; Jan. 5; Gaz. vol. 210; p. 50.
- McBerty, Frank R., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Automatic telephone-exchange system. No. 1,124,314; Jan. 12; Gaz. vol. 210; p. 430.
- McBerty, Frank R., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Power system for automatic switches. No. 1,126,804; Feb. 2; Gaz. vol. 211; p. 50.
- McBerty, Frank R., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Automatic telephone-exchange system. No. 1,146,583; July 13; Gaz. vol. 216; p. 585.
- McBerty, Frank R., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,156,416; Oct. 12; Gaz. vol. 219; p. 405.
- McBerty, Frank R., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Machine switching telephone system. No. 1,157,881; Oct. 26; Gaz. vol. 219; p. 1011.
- McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Semi-mechanical telephone-exchange system. No. 1,124,488; Jan. 12; Gaz. vol. 210; p. 494.
- McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,125,579; Jan. 19; Gaz. vol. 210; p. 916.
- McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Telephone system. No. 1,126,046; Jan. 26; Gaz. vol. 210; p. 1116.
- McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,126,047; Jan. 26; Gaz. vol. 210; p. 1117.
- McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Telephone switching apparatus. No. 1,126,048; Jan. 26; Gaz. vol. 210; p. 1117.
- McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange system. No. 1,126,803; Feb. 2; Gaz. vol. 211; p. 50.
- McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Selective controlling apparatus. No. 1,127,466; Feb. 9; Gaz. vol. 211; p. 322.
- McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,127,467; Feb. 9; Gaz. vol. 211; p. 322.
- McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Trunking system for telephone-exchanges. No. 1,138,879; May 11; Gaz. vol. 214; p. 445.
- McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Semi-automatic telephone-exchange system. No. 1,141,352; June 1; Gaz. vol. 215; p. 94.
- McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,157,018; Oct. 19; Gaz. vol. 219; p. 616.
- McBerty, Frank R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,159,595; Nov. 9; Gaz. vol. 220; p. 446.
- McBerty, Frank R., Antwerp, and A. H. Adams, Brussels, Belgium, assignors to Western Electric Company, New York, N. Y. Impulse-sending mechanism. No. 1,127,050; Feb. 2; Gaz. vol. 211; p. 136.
- McBerty, Frank R., Antwerp, and L. Polinkowsky, Brussels, Belgium, assignors to Western Electric Company, New York, N. Y. Machine telephone switching system. No. 1,137,223; Apr. 27; Gaz. vol. 213; p. 1234.
- McBerty, Frank R., and D. Koenig, Antwerp, Belgium, assignors to Western Electric Company, New York, N. Y. Machine telephone switching system. No. 1,160,181; Nov. 16; Gaz. vol. 220; p. 709.
- McBoyle, Joseph, Oakland, Cal. Hose-nozzle. No. 1,152,652; Sept. 7; Gaz. vol. 218; p. 100.
- McBraid, Henry C., Middletown, N. Y., assignor to Direct Drive Gear Company, Paterson, N. J. Transmission-gearing. No. 1,125,358; Jan. 19; Gaz. vol. 210; p. 840.
- McBrearty, John, Rosemont, Pa. Shoe. No. 1,148,604; Aug. 3; Gaz. vol. 217; p. 44.
- McBride, Samuel F., Birmingham, Ala. Wheel-mounting. No. 1,147,739; July 27; Gaz. vol. 216; p. 1034.
- McBride, Thomas W., assignor of one-fourth to A. N. Atkinson and one-fourth to J. S. Uren, Glen Ewen, Saskatchewan, Canada. Rodless wagon-box. No. 1,128,161; Feb. 9; Gaz. vol. 211; p. 566.
- McBride, William M., Philadelphia, Pa. Fish-basket. No. 1,151,699; Aug. 31; Gaz. vol. 217; p. 1396.
- McBroom, Victor. (See McBroom, William V., assignor.)
- McBroom, William V., assignor of one-half to V. McBroom, Kankakee, Ill. Sugar container and dispenser. No. 1,155,323; Sept. 28; Gaz. vol. 218; p. 1129.
- McBurney, Willard B., H. T. Earksdale, and J. B. Howe, Atlanta, Ga. Refrigerating apparatus. No. 1,133,163; Mar. 23; Gaz. vol. 212; p. 1296.
- McCabe, Bernard F. (See Bolger, Robert S., assignor.)
- McCabe, George, Pocatello, Idaho. Grain-cleaning machine. No. 1,145,154; July 6; Gaz. vol. 216; p. 63.
- McCabe, George E., assignor to The Challenge Machinery Company, Incorporated, Grand Haven, Mich. Printing-block system. No. 1,152,827; Sept. 7; Gaz. vol. 218; p. 165.
- McCabe, Henry, Decatur, Ill. Corn drier and tester. No. 1,152,329; Aug. 31; Gaz. vol. 217; p. 1614.
- McCabe, Henry J., and J. Wise, Menasha, Wis. Box. No. 1,137,341; Apr. 27; Gaz. vol. 213; p. 1279.
- McCabe, Horace B., Chicago, Ill., assignor to Gisholt Machine Company, Madison, Wis. Time-controlled switch mechanism for electric circuits. No. 1,129,996; Mar. 2; Gaz. vol. 212; p. 55.
- McCabe, Hugh, Lawrence, Mass. Feed-water regulator. No. 1,148,107; July 27; Gaz. vol. 216; p. 1165.
- McCabe, Hugh, Lawrence, Mass. Feed-water regulator. No. 1,148,108; July 27; Gaz. vol. 216; p. 1166.
- McCabe, Hugh, Lawrence, Mass. Feed-water regulator. No. 1,148,109; July 27; Gaz. vol. 216; p. 1166.
- McCabe, Hugh, Lawrence, Mass. Flanging-machine. No. 1,164,732; Dec. 21; Gaz. vol. 221; p. 783.
- McCabe, Hugh, Lawrence, Mass. Burner for liquid fuel. No. 1,164,733; Dec. 21; Gaz. vol. 221; p. 783.
- McCabe, Mary and W. J., New York, N. Y. Attachment for sewing-machines. No. 1,148,178; July 27; Gaz. vol. 216; p. 1191.
- McCabe, William, St. Louis, Mo. Corset or waist. No. 1,123,907; Jan. 5; Gaz. vol. 210; p. 242.
- McCabe, William J. (See McCabe, Mary and W. J.)
- McCabe, William L., Portland, Oreg. Chute. No. 1,157,019; Oct. 19; Gaz. vol. 219; p. 647.

Alphabetical list of patentees—Continued.

- McCadden, George, St. Cloud, Minn. Packing. No. 1,139,306; May 11; Gaz. vol. 214; p. 593.
- McCahey, George F., assignor to New England Butt Company, Providence, R. I. Carrier for braiding-machines. No. 1,138,231; May 4; Gaz. vol. 214; p. 177.
- McCaleb Adding Machine Company. (See McCaleb, Walter F., assignor.)
- McCaleb, Albert G. (See Boyer, Alden S., assignor.)
- McCaleb, Walter F., assignor to McCaleb Adding Machine Company, San Antonio, Tex. Adding-machine. No. 1,153,129; Sept. 7; Gaz. vol. 218; p. 269.
- McCall, Clarence M., Marion, N. C. Self-draining hose-reel. No. 1,130,313; Mar. 2; Gaz. vol. 212; p. 163.
- McCall Company, The. (See Newcomb, William W., assignor.)
- McCall, Jacob C., Rotan, Tex. Valve for pneumatic tires. No. 1,137,768; May 4; Gaz. vol. 214; p. 16.
- McCall, Jacob C., Fort Worth, Tex. Tire-shoe. No. 1,147,523; July 20; Gaz. vol. 216; p. 931.
- McCall, James D., McCall, Idaho. Rail-joint. No. 1,146,634; July 13; Gaz. vol. 216; p. 602.
- McCall, James L., Tampa, assignor of one-half to T. A. Moody, Tarpon Springs, Fla. Reinforcement for concreting wooden piles. No. 1,133,484; Mar. 30; Gaz. vol. 212; p. 1444.
- McCall, Robert A., Anson, Tex. Draft-equalizer. No. 1,129,997; Mar. 2; Gaz. vol. 212; p. 56.
- McCall, Samuel J., Butler, Pa. Harrow. No. 1,137,644; Apr. 27; Gaz. vol. 213; p. 1882.
- McCallie, Joseph M., Trenton, N. J. Audiometer. No. 1,127,908; Feb. 9; Gaz. vol. 211; p. 478.
- McCallion, James H., assignor of one-half to G. S. Standish, Providence, R. I. Bar tap-sign holder. No. 1,132,950; Mar. 23; Gaz. vol. 212; p. 1219.
- McCallum Hosiery Company. (See Tebbutt, John, assignor.)
- McCallum, Jean, Hurley, N. Mex., assignor of two-ninths to W. W. Jourdin and two-ninths to A. W. Harris. Centrifugal separator. No. 1,154,575; Sept. 21; Gaz. vol. 218; p. 847.
- McCallum, William J., and W. Chambers, assignors to Chapman Double Ball Bearing Company of Canada, Limited, Toronto, Ontario, Canada. Elevating-truck. No. 1,149,457; Aug. 10; Gaz. vol. 217; p. 448.
- McCalmont, Robert, Franklin, Pa. Automobile jack-truck. No. 1,134,211; Apr. 6; Gaz. vol. 213; p. 47.
- McCamish, Ida F., Winchester, Ind. Slipper. No. 1,136,474; Apr. 20; Gaz. vol. 213; p. 930.
- McCampbell, Theron. (See Gill, Edwin R., assignor.)
- McCandless, William L., Pittsburgh, Pa. Roll-molding machine. No. 1,164,947; Dec. 21; Gaz. vol. 221; p. 859.
- McCann, John H., Bangor, Me. Door-latch. No. 1,165,614; Dec. 28; Gaz. vol. 221; p. 1131.
- McCarel, William L. (See Ayer and McCarel.)
- McCarel, Welman B., Columbus, Ohio. Flying-machine. No. 1,133,984; Mar. 30; Gaz. vol. 212; p. 1619.
- McCarren, Charles E., Cincinnati, assignor to S. S. Kingery, Norwood, Ohio. Popcorn-coating device. No. 1,164,948; Dec. 21; Gaz. vol. 221; p. 860.
- McCarren, Charles R. (See Magee and McCarren.)
- McCarroll, Edward W., Pittsburgh, Pa. Cigar-holder. No. 1,131,150; Mar. 9; Gaz. vol. 212; p. 488.
- McCarroll, Edward W., Pittsburgh, Pa. Game apparatus. No. 1,158,250; Oct. 26; Gaz. vol. 219; p. 1140.
- McCarroll, Edward W., Pittsburgh, Pa. Pencil. No. 1,163,674; Dec. 14; Gaz. vol. 221; p. 372.
- McCarroll, Frank, Dallas, Tex. Plane for aeroplanes. No. 1,152,426; Sept. 7; Gaz. vol. 218; p. 16.
- McCarroll, Frank, Dallas, Tex. Aeroplane. No. 1,152,743; Sept. 7; Gaz. vol. 218; p. 133.
- McCarte, Alexander, Newark, N. J., assignor to The Singer Manufacturing Company. Molding-machine. No. 1,134,396; Apr. 6; Gaz. vol. 213; p. 113.
- McCarte, Alexander, Newark, N. J., assignor to The Singer Manufacturing Company. Molding-machine. No. 1,134,397; Apr. 6; Gaz. vol. 213; p. 114.
- McCarte, Alexander, Newark, N. J., assignor to The Singer Manufacturing Company. Flask-filling apparatus. No. 1,134,398; Apr. 6; Gaz. vol. 213; p. 114.
- McCarter, Milton, Boone county, Ind. Wire-working device. No. 1,144,217; June 22; Gaz. vol. 215; p. 1197.
- McCarter, Milton, and R. Venis, Colfax, Ind. Wire-wrapping device. No. 1,160,182; Nov. 16; Gaz. vol. 220; p. 709.
- McCarthy, Julian E., Gilbert, S. C. Truss-forming attachment for bicycle-forks. No. 1,159,596; Nov. 9; Gaz. vol. 220; p. 447.
- McCarthy, Charles J., Waterbury, Conn. Strainer. No. 1,153,090; Sept. 7; Gaz. vol. 218; p. 257.
- McCarthy, Daniel J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Means for and process of adjusting incandescent lamps. No. 1,157,020; Oct. 19; Gaz. vol. 219; p. 647.
- McCarthy, Daniel T., Meriden, Conn. Valve. No. 1,149,527; Aug. 10; Gaz. vol. 217; p. 473.
- McCarthy, Edward F., and E. W. Wilson, Chicago, Ill. Candy-pulling machine. No. 1,139,786; May 18; Gaz. vol. 214; p. 799.
- McCarthy, Emmet. (See Buch, Paul H., assignor.)
- McCarthy, Ernest F., Worcester, Mass. Chair. No. 1,150,783; Aug. 17; Gaz. vol. 217; p. 979.
- McCarthy, James. (See Butz and McCarthy.)
- McCarthy, James, Chicago, Ill. Rotary plow. No. 1,161,143; Nov. 23; Gaz. vol. 220; p. 1093.
- McCarthy, James G., New York, N. Y. Egg-case filler or container for fragile articles. No. 1,159,400; Nov. 9; Gaz. vol. 220; p. 377.
- McCarthy, John H. (See Wright and McCarthy.)
- McCarthy, Robert H., Madelia, Minn. Internal-combustion engine. No. 1,154,329; Sept. 21; Gaz. vol. 218; p. 763.
- McCarthy, Thomas J., Cincinnati, Ohio. Gas-heater. No. 1,137,011; Apr. 27; Gaz. vol. 213; p. 1158.
- McCarthy, Thomas J., assignor to Auto-Marine Equipment Co., New York, N. Y. Starting device for internal-combustion engines. No. 1,149,661; Aug. 10; Gaz. vol. 217; p. 625.
- McCarthy, Warren B. (See Kingberry and McCarthy.)
- McCarthy, William B., Milford, Conn., and J. T. Allmand, Highland Park, Mich., assignors to The Rostand Manufacturing Company, Milford, Conn. Wind-shield. No. 1,162,733; Nov. 30; Gaz. vol. 220; p. 1691.
- McCarthy, William H., Melrose, Minn. Hand-truck. No. 1,137,993; May 4; Gaz. vol. 214; p. 94.
- McCarty, Eugene J., assignor to T. J. McNamara, Clinton, Mass. Tube-blower. No. 1,155,750; Oct. 5; Gaz. vol. 219; p. 147.
- McCarty, James J., Boston, Mass. Method and apparatus for cleaning pipes. No. 1,156,417; Oct. 12; Gaz. vol. 219; p. 406.
- McCarty, Norman, assignor to Lyons-Atlas Company, Indianapolis, Ind. Internal-combustion engine. No. 1,157,021; Oct. 19; Gaz. vol. 219; p. 647.
- McCarty, Ralph, Hamburg, N. Y., assignor to Corrugated Bar Company, St. Louis, Mo. Bundling ribbed open-work metal and making the same. No. 1,133,387; Mar. 30; Gaz. vol. 212; p. 1411.
- McCaskell, Jasper A., Salt Lake City, Utah. Leaching ores. No. 1,137,874; May 4; Gaz. vol. 214; p. 53.
- McCaskey, Alfred S., assignor to McCaskey Electric Calculator Co., Chicago, Ill. Calculating-machine. No. 1,147,957; July 27; Gaz. vol. 216; p. 1110.
- McCaskey Electric Calculator Co. (See McCaskey, Alfred S., assignor.)
- McCaskey, Perry A., Lakewood, Ohio. Account-filing device. No. 1,164,830; Dec. 21; Gaz. vol. 221; p. 819.
- McCaskey Register Company, The. (See Dodson, Samuel H., assignor.)
- McCaskey Register Company, The. (See Hick, Harry J., assignor.)
- McCaskey Register Company, The. (See Hick and Staples, assignors.)
- McCaskey Register Company, The. (See Jacobs, George, assignor.)
- McCaskey Register Company, The. (See Kurtz, Stewart S., assignor.)
- McCaskey Register Company, The. (See Maxwell, Thomas G., assignor.)
- McCaskey Register Company, The. (See Moseley, Emerson B., assignor.)
- McCaskey Register Company, The. (See Ryley, Alfred G., assignor.)
- McCaskey Register Company, The. (See Silvius, Ellis T., assignor.)
- McCaskey Register Company, The. (See Weldy, Arthur S., assignor.)
- McCauley, Albert J., assignor to C. A. Garvey and H. G. Cook, St. Louis, Mo. Type-setting device. No. 1,133,731; Mar. 30; Gaz. vol. 212; p. 1535.
- McCauley, J. A. (See Shoemaker, Calvin H., assignor.)
- McCauley, James H. (See North, McCauley, and Bytheway.)
- McCauley, Nellie M., Kalispell, Mont. Sprayer. No. 1,140,177; May 18; Gaz. vol. 214; p. 939.
- McCaulou, Martin H., Butlerville, Ind. Combination drag, grader, and ditcher. No. 1,126,805; Feb. 2; Gaz. vol. 211; p. 50.
- McCawley, Alfred L., Jefferson City, and W. W. Phillips, St. Louis, assignors to F. W. Buffum, Louisiana, Mo. Stencil-card-feeding attachment for type-writers. No. 1,140,518; May 25; Gaz. vol. 214; p. 1094.
- McChesney, John S., Chicago, Ill. Wire-tying tool. No. 1,124,633; Jan. 12; Gaz. vol. 210; p. 547.
- McClain, Fred F., Xenia, Ohio. Window-sash. No. 1,143,640; June 22; Gaz. vol. 215; p. 995.
- McClair, Charles, Schenectady, N. Y. Safety starting mechanism. No. 1,135,385; Apr. 13; Gaz. vol. 213; p. 504.
- McClanahan, David, Stacy, Va. Fire-alarm. No. 1,132,103; Mar. 16; Gaz. vol. 212; p. 853.
- McClary Manufacturing Co., The. (See Westbury, Frank H., assignor.)
- McClave-Brooks Company. (See McClave, William, assignor.)
- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Grate for burning fine fuel. No. 1,134,883; Apr. 6; Gaz. vol. 213; p. 287.
- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Conveyor system. No. 1,165,791; Dec. 28; Gaz. vol. 221; p. 1193.

Alphabetical list of patentees—Continued.

- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Stoking mechanism for furnaces. No. 1,165,792; Dec. 28; Gaz. vol. 221; p. 1193.
- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Non-sifting grate for furnaces. No. 1,165,793; Dec. 28; Gaz. vol. 221; p. 1194.
- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Turbine-blower. No. 1,165,794; Dec. 28; Gaz. vol. 221; p. 1194.
- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Turbine-blower. No. 1,165,795; Dec. 28; Gaz. vol. 221; p. 1195.
- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Steam-turbine blower. No. 1,165,796; Dec. 28; Gaz. vol. 221; p. 1195.
- McClave, William S. (See Mercer, Joseph T., assignor.)
- McClay, Charles E., Los Angeles, Cal. Pneumatic tire. No. 1,160,424; Nov. 16; Gaz. vol. 220; p. 793.
- McCleary, Henry, Southington, assignor to Sargent & Company, New Haven, Conn. Take-down square. No. 1,126,049; Jan. 26; Gaz. vol. 210; p. 1118.
- McCleary, William, Hammond, Ind. Alarm apparatus. No. 1,161,708; Nov. 23; Gaz. vol. 220; p. 1293.
- McCleary, James W., assignor to W. F. Lynn, Rochester, N. Y. Receptacle made of paper or cardboard. No. 1,158,699; Nov. 2; Gaz. vol. 220; p. 101.
- McClellan, Benjamin S., Chicago, Ill. Metal window-sash. No. 1,139,787; May 18; Gaz. vol. 214; p. 800.
- McClellan, Benjamin S., Chicago, Ill. Window-sash. No. 1,149,072; Aug. 3; Gaz. vol. 217; p. 208.
- McClellan, George L., Gold Hill, Ore. Hose-coupling. No. 1,132,197; Mar. 16; Gaz. vol. 212; p. 894.
- McClellan, George L., Gold Hill, Ore. Hose-coupling. No. 1,148,913; Aug. 3; Gaz. vol. 217; p. 152.
- McClellan, Thomas L. (See McClellan, William and T. L.)
- McClellan, William and T. L., Los Angeles, Cal. Individual-towel rack. No. 1,124,931; Jan. 12; Gaz. vol. 210; p. 651.
- McClellan, William F., Brooklyn, N. Y. Shoe-tree. No. 1,142,595; June 8; Gaz. vol. 215; p. 567.
- McClelland, Harry. (See Johnson and McClelland.)
- McClelland, John, assignor to Henry Weis Cornice Co., Kansas City, Mo. Closet-partition. No. 1,161,780; Nov. 23; Gaz. vol. 220; p. 1317.
- McClelland, Joseph, Chicago, Ill. Means for changing reciprocating to rotary motion. No. 1,161,235; Nov. 23; Gaz. vol. 220; p. 1128.
- McClellon, James M., Everett, Mass. Corrugated fire-box. No. 1,124,489; Jan. 12; Gaz. vol. 210; p. 494.
- McClellon, James M., Everett, Mass. Fire-box construction. No. 1,124,490; Jan. 12; Gaz. vol. 210; p. 495.
- McClintock, William, New York, N. Y. Hose-rack. No. 1,153,091; Sept. 7; Gaz. vol. 218; p. 257.
- McClintock, William M. (See Christofferson and McClintock.)
- McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Mechanism for raising and lowering shutters or curtains. No. 1,158,824; Nov. 2; Gaz. vol. 220; p. 147.
- McClung, Lee. (See Doll, William F., assignor.)
- McClung, Robert G., administrator. (See Doll, William F.)
- McClure, Charles W., Atlanta, Ga. Garment. No. 1,131,532; Mar. 9; Gaz. vol. 212; p. 620.
- McClure, Edward, assignor of one-half to F. P. Smith, Chicago, Ill. Joint for structural metal work. No. 1,129,040; Feb. 16; Gaz. vol. 211; p. 921.
- McClure, Herbert B., Dubuque, Iowa. Humidifier. No. 1,131,784; Mar. 16; Gaz. vol. 212; p. 744.
- McClure, John C., Lawton, Okla. Crude-oil burner. No. 1,158,523; Nov. 2; Gaz. vol. 220; p. 40.
- McClure, John M., Winchester, Ky. Truss. No. 1,141,569; June 1; Gaz. vol. 215; p. 172.
- McClure, Ray, Van Wert, Ohio. Animal-trap. No. 1,157,882; Oct. 26; Gaz. vol. 219; p. 1011.
- McClure, Robert O., and H. P. Johnson, Franks, Okla. Vehicle attachment. No. 1,124,932; Jan. 12; Gaz. vol. 210; p. 652.
- McClure, Robert T., Grandview, W. Va. Nut-lock. No. 1,140,272; May 18; Gaz. vol. 214; p. 970.
- McClure, Royal A., Seattle, Wash. Switching device. No. 1,138,880; May 11; Gaz. vol. 214; p. 446.
- McClure, William, Boughton, Ark. Railway level-board. No. 1,141,471; June 1; Gaz. vol. 215; p. 138.
- McCoach, John A., Bolcourt, Kans. Permutation-lock. No. 1,166,233; Dec. 28; Gaz. vol. 221; p. 1352.
- McColgan, Charles C., Baltimore, Md. Vehicle signaling device. No. 1,162,877; Nov. 30; Gaz. vol. 220; p. 1572.
- McColgan, Charles C., and J. M. Smith, Baltimore, Md.; said Smith assignor to said McColgan. Signaling device for vehicles. No. 1,162,724; Nov. 30; Gaz. vol. 220; p. 1687.
- McColl, Francis P., Eastport, Me., assignor to American Key Can Company, Chicago, Ill. Can-carrier for soldering-machines. No. 1,159,513; Nov. 9; Gaz. vol. 220; p. 417.
- McColl, Francis P., Eastport, Me., assignor to American Key Can Company, Chicago, Ill. Roll-top receptacle. No. 1,159,514; Nov. 9; Gaz. vol. 220; p. 417.
- McColl, Francis P., St. Andrews, New Brunswick, Canada, assignor to American Key Can Company, Chicago, Ill. Can-body. No. 1,160,183; Nov. 16; Gaz. vol. 220; p. 709.
- McCollum, William R., Chicago, Ill. Switch-rod. No. 1,141,129; June 1; Gaz. vol. 215; p. 13.
- McCollum, Alfred F., assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Pile-wire. No. 1,130,617; Mar. 2; Gaz. vol. 212; p. 272.
- McCollum, Alfred F., assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Pile-wire. No. 1,130,618; Mar. 2; Gaz. vol. 212; p. 272.
- McCollum, Alfred F., assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Pile-cutting mechanism. No. 1,161,709; Nov. 23; Gaz. vol. 220; p. 1293.
- McCollum, Alfred F., assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Pile-cutting mechanism. No. 1,161,710; Nov. 23; Gaz. vol. 220; p. 1293.
- McCollum, Burton, Washington, D. C. Induction-motor. No. 1,156,364; Oct. 12; Gaz. vol. 219; p. 386.
- McCollum, James H. K., Toronto, Ontario, Canada. Automatic train-stop. No. 1,150,377; Aug. 17; Gaz. vol. 217; p. 840.
- McCollum, Richard P., Philadelphia, Pa. Pad for a herinal truss. No. 1,158,139; Oct. 26; Gaz. vol. 219; p. 1102.
- McCollum, Rufus B. (See Blakey and McCollum.)
- McComb, Henry G., New York, N. Y., assignor to General Vehicle Company, Incorporated, Cotter-pin. No. 1,157,946; Oct. 26; Gaz. vol. 219; p. 1034.
- McComb, William N., New York, N. Y. Electrical control system. No. 1,123,341; Jan. 5; Gaz. vol. 210; p. 50.
- McComb, William N., New York, N. Y. Seed-tape. No. 1,143,980; June 22; Gaz. vol. 215; p. 1111.
- McComish, John J., New York, N. Y. Chair-signal for theaters. No. 1,133,985; Mar. 30; Gaz. vol. 212; p. 1620.
- McConachy, Robert C., South Yarra, Victoria, Australia. Apparatus for forming hinged sheet-metal receptacles. No. 1,149,201; Aug. 10; Gaz. vol. 217; p. 356.
- McConachy, Robert C., South Yarra, Victoria, Australia. Receptacle. No. 1,158,520; Nov. 2; Gaz. vol. 220; p. 39.
- McConaughy, Hugh, assignor of one-half to G. M. Buzzard, Cleveland, Ohio. Tie and rail clamp. No. 1,132,198; Mar. 16; Gaz. vol. 212; p. 894.
- McCone, Alexander J., Los Angeles, Cal. Grinding-mill. No. 1,163,245; Dec. 7; Gaz. vol. 221; p. 179.
- McCone, Alexander J., Los Angeles, Cal. Grinder. No. 1,163,246; Dec. 7; Gaz. vol. 221; p. 179.
- McConlogue, Robert T., assignor of one-half to R. A. Patrick, Freeport, N. Y. Thermostatic valve. No. 1,161,060; Nov. 23; Gaz. vol. 220; p. 1064.
- McConnell, Charles D., assignor of one-half to J. M. Bryson, Oskaloosa, Iowa. Hose-reel. No. 1,151,890; Aug. 31; Gaz. vol. 217; p. 1464.
- McConnell, Duncan A., Arlington, N. J., assignor, by mesne assignments, to Lovell-McConnell Manufacturing Company. Diaphragm-horn. No. 1,160,902; Nov. 16; Gaz. vol. 220; p. 964.
- McConnell, Samuel M., Wellsville, Ohio. Safety-pin. No. 1,134,472; Apr. 6; Gaz. vol. 213; p. 142.
- McConway & Torley Company. (See Bradford and Ritter, assignors.)
- McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
- McConway & Torley Company. (See Kelso, William, assignor.)
- McConway & Torley Company. (See Kelso, William and J., assignors.)
- McConway & Torley Company. (See McConway, William, Jr., assignor.)
- McConway & Torley Company. (See McConway and Regan, assignors.)
- McConway & Torley Company, The. (See Milliken, Isaac H., assignor.)
- McConway & Torley Company, The. (See Price, John F., assignor.)
- McConway & Torley Company, The. (See Regan, William J., assignor.)
- McConway, William, Jr., assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,027; July 27; Gaz. vol. 216; p. 1135.
- McConway, William, Jr., assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,028; July 27; Gaz. vol. 216; p. 1136.
- McConway, William, Jr., assignor to McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway vehicles. No. 1,148,029; July 27; Gaz. vol. 216; p. 1136.
- McConway, William, Jr., assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling stem. No. 1,151,807; Aug. 31; Gaz. vol. 217; p. 1435.
- McConway, William, Jr., and W. J. Regan, assignors to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,030; July 27; Gaz. vol. 216; p. 1137.
- McConway, William, Jr., and W. J. Regan, assignors to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,031; July 27; Gaz. vol. 216; p. 1137.

Alphabetical list of patentees—Continued.

- McCool, Edward F. (See Millar, James D., assignor.)
 McCool, Edward F., Victor, Colo. Grinding-mill. No. 1,137,224; Apr. 27; Gaz. vol. 213; p. 1235.
 McCool, Edward F., Victor, Colo. Ore-grinder. No. 1,138,966; May 11; Gaz. vol. 214; p. 475.
 McCool, Edward F., Victor, Colo. Ore-grinder. No. 1,144,305; June 22; Gaz. vol. 215; p. 1228.
 McCoon, Ira, Windsor Locks, Conn. Truck. No. 1,146,635; July 13; Gaz. vol. 216; p. 603.
 McCord, Alvin C. (See Randel and McCord.)
 McCord, Alvin C., Chicago, Ill. Pressed-steel journal-box. No. 1,149,274; Aug. 10; Gaz. vol. 217; p. 383.
 McCord, Alvin C., Chicago, Ill. Draft-rigging for cars. No. 1,149,662; Aug. 10; Gaz. vol. 217; p. 525.
 McCord, Alvin C., Chicago, Ill. Coupling draw-bar. No. 1,165,190; Dec. 21; Gaz. vol. 221; p. 945.
 McCord, Alvin C., and I. A. Randel, assignors to McCord and Company, Chicago, Ill. Journal-box. No. 1,132,370; Mar. 16; Gaz. vol. 212; p. 957.
 McCord and Company. (See McCord and Randel, assignors.)
 McCord and Company. (See Randel, Ivar A., assignor.)
 McCord and Company. (See Schlacks, William J., assignor.)
 McCord, Edgar E., Newton, Iowa. Machine for making fence-posts. No. 1,135,538; Apr. 13; Gaz. vol. 213; p. 558.
 McCord, Horace M., assignor to Horace M. McCord & Co., Inc., Minneapolis, Minn. Inclinator for carboys. No. 1,137,071; Apr. 27; Gaz. vol. 213; p. 1179.
 McCord Manufacturing Company. (See Smith, Howard, assignor.)
 McCorkindale, Duncan L., Holyoke, Mass. Method of and means for making paper. No. 1,147,331; July 20; Gaz. vol. 216; p. 863.
 McCorkindale, William, assignor to Mt. Holyoke Tissue Mills, Holyoke, Mass. Paper package. No. 1,146,186; July 13; Gaz. vol. 216; p. 444.
 McCormack, Angus G., Port Arthur, Ontario, Canada. Auxiliary operating attachment for drills. No. 1,138,767; May 11; Gaz. vol. 214; p. 405.
 McCormack, Harry S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Paper-roll cradle. No. 1,144,769; June 29; Gaz. vol. 215; p. 1414.
 McCormack, Patrick F., West Rutland, Vt., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stoneworking-machine. No. 1,133,233; Mar. 23; Gaz. vol. 212; p. 1319.
 McCormack, Thomas, assignor to self and F. Ingersoll, Detroit, Mich. Brake for pleasure-railways. No. 1,137,342; Apr. 27; Gaz. vol. 213; p. 1279.
 McCormick, Allen L., Kansas City, Mo. Weather-strip for wind-shields for automobiles. (Reissue.) No. 1,345; July 13; Gaz. vol. 216; p. 652.
 McCormick, Charles H., Boonton, N. J. Apparatus for heating boilers. No. 1,165,886; Dec. 28; Gaz. vol. 221; p. 1225.
 McCormick, Cyrus T., Fredericktown, Mo. Cattle-guard. No. 1,131,848; Mar. 16; Gaz. vol. 212; p. 768.
 McCormick, Douglass, Columbus, Ohio. Dancing-shoe. No. 1,152,115; Aug. 31; Gaz. vol. 217; p. 1541.
 McCormick, Frank L., assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Driving mechanism for automatic musical instruments. No. 1,132,104; Mar. 16; Gaz. vol. 212; p. 859.
 McCormick, Harry H., Grayrocks, Wyo. Safety attachment for vehicles. No. 1,142,449; June 8; Gaz. vol. 215; p. 518.
 McCormick, Horace, and M. A. Lumbard, Des Moines, Iowa. Ledger for short-account systems. No. 1,127,051; Feb. 2; Gaz. vol. 211; p. 137.
 McCormick, John H., Rexley, Ohio. Draft-gear for railway-vehicles. No. 1,127,656; Feb. 9; Gaz. vol. 211; p. 384.
 McCormick, John H., Bexley, Ohio. Draw-gear and buffing apparatus. No. 1,127,657; Feb. 9; Gaz. vol. 211; p. 385.
 McCormick, John H., Bexley, Ohio. Draw-gear and buffing apparatus. No. 1,127,658; Feb. 9; Gaz. vol. 211; p. 385.
 McCormick, John H., Bexley, Ohio. Friction draft and buffing apparatus. No. 1,130,416; Mar. 2; Gaz. vol. 212; p. 200.
 McCormick, John H., Columbus, Ohio. Friction draft and buffing apparatus. No. 1,136,022; Apr. 20; Gaz. vol. 213; p. 770.
 McCormick, John I., assignor to American Slicing Machine Company, Chicago, Ill. Meat-slicer. No. 1,142,901; June 15; Gaz. vol. 215; p. 712.
 McCormick, Joseph A., Chicago, Ill. Soda-water faucet. No. 1,141,472; June 1; Gaz. vol. 215; p. 138.
 McCormick, Langdon, London, England. Apparatus for stage illusions. No. 1,131,151; Mar. 9; Gaz. vol. 212; p. 488.
 McCormick, Langdon, New York, N. Y. Apparatus for producing illusionary effects. No. 1,154,787; Sept. 28; Gaz. vol. 218; p. 948.
 McCormick Manufacturing Company. (See Kopf, Melrose G., assignor.)
 McCormick, Patrick C., Mackinac Island, Mich. Fastening device. No. 1,154,708; Sept. 28; Gaz. vol. 218; p. 922.
 McCormick, Roscoe T. (See Schmidt, Lawrence S., assignor.)
 McCormick, Rufus H., Marlbrook, Va. Scale indicating and totaling mechanism. No. 1,131,785; Mar. 16; Gaz. vol. 212; p. 745.
 McCormick, William D., assignor of one-half to R. W. Palford, Uniontown, Pa. Gang-plank. No. 1,137,645; Apr. 27; Gaz. vol. 213; p. 1382.
 McCormack, Herbert, West Chester, Pa. Carbureter. No. 1,141,570; June 1; Gaz. vol. 215; p. 173.
 McCormick, Clarence K. (See Bouchery, August, assignor.)
 McCoughtry, John E., Gary, Ind. Tire. No. 1,155,255; Sept. 28; Gaz. vol. 218; p. 1107.
 McCoy, Barney E., and K. Nash; said Nash assignor to E. W. Nash, New Harmony, Ind. Cord-reel for vehicle-lights. No. 1,125,858; Jan. 19; Gaz. vol. 210; p. 1016.
 McCoy, Benjamin F., St. Louis, Mo. Metallic shoe-counter. (Reissue.) No. 1,3912; May 4; Gaz. vol. 214; p. 313.
 McCoy, Benjamin F., St. Louis, Mo. Metallic counter for shoes. No. 1,143,294; June 15; Gaz. vol. 215; p. 851.
 McCoy, Claude M., East Liverpool, Ohio. Hose-reel. No. 1,124,491; Jan. 12; Gaz. vol. 210; p. 495.
 McCoy, Eldorus, et al. (See Reasoner, James A., assignor.)
 McCoy, Elijah, assignor to A. H. Fuss, Detroit, Mich. Locomotive-lubricator. No. 1,136,689; Apr. 20; Gaz. vol. 213; p. 1006.
 McCoy, Elijah, assignor of fifty-two one-hundredths to J. N. Courtney and C. H. H. Wheeler and forty-eight one-hundredths to J. N. Courtney, Detroit, Mich. Tread for tires. No. 1,127,789; Feb. 9; Gaz. vol. 211; p. 435.
 McCoy, John C., La Belle, Mo. Hay-loader. No. 1,128,017; Feb. 9; Gaz. vol. 211; p. 516.
 McCoy, John W., Syracuse, Mo. Car wheel and axle. No. 1,133,986; Mar. 30; Gaz. vol. 212; p. 1620.
 McCoy, Millard A., Perth Amboy, N. J. Corrugated-iron fastener. No. 1,133,164; Mar. 23; Gaz. vol. 212; p. 1296.
 McCoy, Otis E., Baltimore, Md. Switch. No. 1,137,875; May 4; Gaz. vol. 214; p. 53.
 McCoy, Robert J., assignor of one-half to W. M. Cravens, Fort Smith, Ark. Intermittent-grip device for hoisting mechanism. No. 1,140,519; May 25; Gaz. vol. 214; p. 1094.
 McCoy, Robert J., assignor of one-half to J. C. Davis and one-half to W. M. Cravens, Fort Smith, Ark. Intermittent ratchet mechanism. No. 1,129,701; Feb. 23; Gaz. vol. 211; p. 1185.
 McCoy, Walter E., et al. (See Sprong, Severn D., assignor.)
 McCoy, Walter E. (See Sprong and McCoy.)
 McCoy, William T., Utica, N. Y. Winding strips. No. 1,159,781; Nov. 9; Gaz. vol. 220; p. 515.
 McCracken, Frank, San Francisco, Cal. Automatic stock-watering device. No. 1,126,806; Feb. 2; Gaz. vol. 211; p. 51.
 McCracken, Isaac E., Pittsburgh, Pa., assignor of one-half to C. P. Seyler, Trolley. No. 1,125,580; Jan. 19; Gaz. vol. 210; p. 917.
 McCracken, Melvin J., Kent, Ohio. Compression-mold for boneless ham. No. 1,139,550; May 18; Gaz. vol. 214; p. 716.
 McCracken, William J., Sloux City, Iowa. Tile-making machine. No. 1,159,515; Nov. 9; Gaz. vol. 220; p. 417.
 McCrary, John C., Columbia, Mo. Piano-bench. No. 1,141,130; June 1; Gaz. vol. 215; p. 14.
 McCrary, Pierce R., New York, N. Y. Circulating apparatus for fluids. No. 1,124,160; Jan. 5; Gaz. vol. 210; p. 327.
 McCray, Harold E., assignor to Western Motor Appliance Company, Charles City, Iowa. Carbureter. No. 1,153,436; Sept. 14; Gaz. vol. 218; p. 418.
 McCray, William L., Bluefield, W. Va. Locking device for automobiles. No. 1,131,720; Mar. 16; Gaz. vol. 212; p. 720.
 McCready, George L., Parksley, Va. Potato-vine cutter. No. 1,134,629; Apr. 6; Gaz. vol. 213; p. 199.
 McCreary, James A. (See Mitchell and McCreary.)
 McCreery Engineering Company. (See Luehrs, Daniel M., assignor.)
 McCreery, William H., Savannah, Ga. Collapsible barrel. No. 1,144,218; June 22; Gaz. vol. 215; p. 1198.
 McCrory, William H., Three Rivers, Mich. Rotary engine. No. 1,149,528; Aug. 10; Gaz. vol. 217; p. 474.
 McCrum, C. M. (See Fuller, Allen A., assignor.)
 McCrystle, William H., Vallejo, Cal. Combined spout and can-opener. No. 1,145,778; July 6; Gaz. vol. 216; p. 281.
 McCue, William T., assignor to P. Wall, Pittsburgh, Pa. Ice-can. No. 1,128,162; Feb. 9; Gaz. vol. 211; p. 569.
 McCue, William T., assignor to P. Wall, Pittsburgh, Pa. Ice-can. No. 1,155,751; Oct. 5; Gaz. vol. 219; p. 147.
 McCulla, William R., assignor to Packard Motor Car Company, Detroit, Mich. Muffler. No. 1,140,693; May 25; Gaz. vol. 214; p. 1152.
 McCulley, George F. (See Ross and McCulley.)
 McCulloh, Allan, et al., executors. (See Kendall, Edward D., assignor.)
 McCullough, Arthur B., Corunna, Ind. Automobile-jack. No. 1,145,693; July 6; Gaz. vol. 216; p. 251.
 McCullough, Benjamin F., Teague, Tex. Tire-bolting machine. No. 1,138,130; May 4; Gaz. vol. 214; p. 145.

Alphabetical list of patentees—Continued.

- McCullough, Lawrence L., Kansas City, Kans. Ballast-burning machine. No. 1,135,307; Apr. 13; Gaz. vol. 213; p. 478.
- McCullough, Maud M., St. Louis, Mo. Ironing-board. No. 1,157,317; Oct. 19; Gaz. vol. 219; p. 752.
- McCumber, James R. (See Wells and McCumber.)
- McCumber, James R., Victoria, Va. Valved hose-connecting conduit. No. 1,124,933; Jan. 12; Gaz. vol. 210; p. 652.
- McCune, Floyd S., and N. Jones, Tulsa, Tex. Attachment for lister-plows. No. 1,132,371; Mar. 16; Gaz. vol. 212; p. 958.
- McCune, Frank H., Portland, Oreg. Clothes-washing machine. No. 1,133,732; Mar. 30; Gaz. vol. 212; p. 1535.
- McCune, John T., Decatur, Miss. Hay-press. No. 1,139,046; May 11; Gaz. vol. 214; p. 505.
- McCurd, Wallace A., Hampstead, London, England. Carrying means for the road-wheels of vehicles. No. 1,164,203; Dec. 14; Gaz. vol. 221; p. 557.
- McCurdy, Horace L., Detroit, Mich. Carbureter. No. 1,159,851; Nov. 9; Gaz. vol. 220; p. 540.
- McCurdy, Lester S., Thorold, Ontario, Canada. Flow-regulator for paper-making machines. No. 1,154,788; Sept. 28; Gaz. vol. 218; p. 949.
- McCurley, James W., assignor of one-half to L. J. Stockum, Cincinnati, Ohio. Wrench. No. 1,160,737; Nov. 16; Gaz. vol. 220; p. 907.
- McDade, Charles W., Moorhead, Iowa. Pneumatic cushion. No. 1,136,968; Apr. 27; Gaz. vol. 213; p. 1141.
- McDade, Edward J., and F. F. Dorsey, assignors to Pritchard-Stamping Company, Rochester, N. Y. Lantern. No. 1,139,788; May 18; Gaz. vol. 214; p. 800.
- McDade, John J., San Francisco, Cal. Envelop-sealing and stamp-afixing machine. No. 1,153,325; Sept. 14; Gaz. vol. 218; p. 377.
- McDade, John J., San Francisco, Cal. Envelop-sealing and stamp-afixing machine. No. 1,153,326; Sept. 14; Gaz. vol. 218; p. 377.
- McDaniel, Albert R., Bayfield, Colo., assignor of one-half to C. W. McDaniel, Johnston, Nebr. Car-door. No. 1,153,803; Sept. 14; Gaz. vol. 218; p. 547.
- McDaniel, Alex S., assignor to Corliss Carbon Company, Bradford, Pa. Electrical connection or pigtail. No. 1,141,069; May 25; Gaz. vol. 214; p. 1283.
- McDaniel, Charles W. (See McDaniel, Albert R., assignor.)
- McDaniel, Walter O., assignor to Schroeter Brothers Hardware Company, St. Louis, Mo. Nutcracker. No. 1,151,110; Aug. 24; Gaz. vol. 217; p. 1149.
- McDaniel, William A. (See Blue, Cary S., assignor.)
- McDermand, Joseph C., Great Falls, Mont. Lubricator. No. 1,165,266; Dec. 21; Gaz. vol. 221; p. 971.
- McDermid, Donald, Irvington, N. J. Electroplating generator. No. 1,164,734; Dec. 21; Gaz. vol. 221; p. 784.
- McDermott, Dominic D., assignor of one-half to J. J. Blount, Jersey City, N. J. Torpedo-signal holder. No. 1,126,050; Jan. 26; Gaz. vol. 210; p. 1118.
- McDermott, Francis J., New Haven, Conn. Corset. No. 1,133,485; Mar. 30; Gaz. vol. 212; p. 1444.
- McDermott, Francis J., New Haven, assignor to Birdsey, Somers Company, Bridgeport, Conn. Reinforced corset. No. 1,140,691; May 25; Gaz. vol. 214; p. 1152.
- McDermott, Frank W., Rawlins, Wyo. Glazier's tool. No. 1,153,092; Sept. 7; Gaz. vol. 218; p. 258.
- McDermott, George L., Denver, Colo. Pump. No. 1,164,831; Dec. 21; Gaz. vol. 221; p. 819.
- McDermott, Henry, assignor to McDermott Mechanical Company, Iron Mountain, Mich. Excavating-machine. No. 1,139,690; May 18; Gaz. vol. 214; p. 766.
- McDermott, James, New York, N. Y. Wagon-body. No. 1,135,826; Apr. 13; Gaz. vol. 213; p. 661.
- McDermott Mechanical Company. (See McDermott, Henry, assignor.)
- McDermott, Thomas E. (See Campbell, John, assignor.)
- McDermott, Thomas E., Minneapolis, Minn. Animal-trap. No. 1,148,243; July 27; Gaz. vol. 216; p. 1212.
- McDermott, William. (See Higgins and McDermott.)
- McDevitt, James W., assignor to E. C. Wright, Brockton, Mass. Last. No. 1,140,335; May 18; Gaz. vol. 214; p. 992.
- McDevitt, William J., Philadelphia, Pa. Shoe-lace holder. No. 1,131,533; Mar. 9; Gaz. vol. 212; p. 620.
- McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Metal-shearing machine. No. 1,141,644; June 1; Gaz. vol. 215; p. 198.
- McDonald, Charles E. (See Charles and McDonald.)
- McDonald, Charles P., Grand Junction, Colo. Trolley-wire connector. No. 1,125,859; Jan. 19; Gaz. vol. 210; p. 1016.
- McDonald, Charles W., assignor of one-half to C. W. Connally, Austin, Tex. Machine for cracking nuts. No. 1,143,843; June 22; Gaz. vol. 215; p. 1064.
- McDonald, Chett. (See Huck, Waldo and A. W., assignors.)
- McDonald, Claude F. and S. O., Camden, Ohio. Railway-rail coupling. No. 1,144,557; June 29; Gaz. vol. 215; p. 1341.
- McDonald, Colin G. (See Stumpf, Emil C., assignor.)
- McDonald, David A., Chicago, Ill. Mouthpiece for cornets and the like. No. 1,166,137; Dec. 28; Gaz. vol. 221; p. 1316.
- McDonald, Elmer E. (See Gendreau, Auguste, assignor.)
- McDonald, Henry E., Sydney, New South Wales, Australia. Screw-propeller. No. 1,149,931; Aug. 10; Gaz. vol. 217; p. 621.
- McDonald, James A., assignor to J. D. Zook, Fort Worth, Tex. Combined door-bell and mail-receiver. No. 1,154,422; Sept. 21; Gaz. vol. 218; p. 795.
- McDonald, John C., New York, N. Y. Railway-train-controlling system. No. 1,151,025; Aug. 24; Gaz. vol. 217; p. 1121.
- McDonald, John C., New York, N. Y. Railway-train-controlling system. No. 1,151,026; Aug. 24; Gaz. vol. 217; p. 1122.
- McDonald, John C., New York, N. Y. Railway-train-controlling system. No. 1,151,027; Aug. 24; Gaz. vol. 217; p. 1122.
- McDonald, John J., Milpitas, Cal. Fertilizer-distributor. No. 1,158,700; Nov. 2; Gaz. vol. 220; p. 101.
- McDonald, John S. (See Olney, Joseph W., assignor.)
- McDonald Machine Co. (See McDonald, Charles D., assignor.)
- McDonald, Martin. (See Restorff, William G., assignor.)
- McDonald, Martin, Washington, D. C. Door-knob fastening. No. 1,128,339; Feb. 16; Gaz. vol. 211; p. 677.
- McDonald, Samuel, Louisville, Ky. Staff-holder. No. 1,155,589; Oct. 5; Gaz. vol. 219; p. 91.
- McDonald, Stanley O. (See McDonald, Claude F. and S. O.)
- McDonnell, Milton E., Altoona, Pa. Coating car-bodies. No. 1,151,700; Aug. 31; Gaz. vol. 217; p. 1396.
- McDonough, James T., New York, N. Y. Clothes-line apparatus. No. 1,154,524; Sept. 21; Gaz. vol. 218; p. 829.
- McDougal, Royden K., Lincoln, Nebr. Grinding-machine. No. 1,131,398; Mar. 9; Gaz. vol. 212; p. 573.
- McDougal, Royden K., Lincoln, Nebr. Spark-plug attachment. No. 1,137,692; May 4; Gaz. vol. 214; p. 94.
- McDougal, Victor H., North Robinson, Ohio. Change-speed gearing. No. 1,147,524; July 20; Gaz. vol. 216; p. 932.
- McDougall, Alexander, Duluth, Minn. Vessel. No. 1,157,022; Oct. 19; Gaz. vol. 219; p. 648.
- McDougall, Alexander and A. M., Duluth, Minn. Sea-going canal-boat. No. 1,128,886; Feb. 16; Gaz. vol. 211; p. 865.
- McDougall, Alexander M. (See McDougall, Alexander and A. M.)
- McDougall, Alexander M., Duluth, Minn. Preserving and marketing fresh fish. No. 1,140,178; May 18; Gaz. vol. 214; p. 939.
- McDougall, George F. A., Boston, assignor of one-half to W. L. Jenkins, West Somerville, Mass. Automobile-signal. No. 1,157,561; Oct. 19; Gaz. vol. 219; p. 836.
- McDougall, Neil, Minot, N. D. Truck. No. 1,140,470; May 25; Gaz. vol. 214; p. 1076.
- McDougall, Walter, New York, N. Y. Pencil-holder. No. 1,158,251; Oct. 26; Gaz. vol. 219; p. 1120.
- McDowell, Charles, Sturgis, S. D. Plow. No. 1,137,646; Apr. 27; Gaz. vol. 213; p. 1382.
- McDowell, William F., Gardner, Mass. Chair. No. 1,125,359; Jan. 19; Gaz. vol. 210; p. 841.
- McDowell, William F., Gardner, Mass. Woodworking machinery. No. 1,163,098; Dec. 7; Gaz. vol. 221; p. 126.
- McEachron, George, Iron River, Mich. Flour-sifter. No. 1,137,068; Apr. 27; Gaz. vol. 213; p. 1178.
- McEarly, Douglas D., Clinton, Miss. Irrigating apparatus. No. 1,124,161; Jan. 5; Gaz. vol. 210; p. 328.
- McEldowney, Wilber E., Denver, Colo., assignor to The Miller Electric Switch Company. Waterproof switch-joint. No. 1,162,793; Dec. 7; Gaz. vol. 221; p. 21.
- McElhenie, Thomas J., Philadelphia, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 1,159,782; Nov. 9; Gaz. vol. 220; p. 515.
- McElheny, William C., Pittsburgh, Pa. Apparatus for refining oil. No. 1,142,826; June 15; Gaz. vol. 215; p. 685.
- McElliott, Maurice. (See Golthion and McElliott.)
- McElroy, George T., Mahan, W. Va. Implement for bending or straightening rails. No. 1,139,878; May 18; Gaz. vol. 214; p. 833.
- McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company. Automatic electric-heating system. No. 1,128,163; Feb. 9; Gaz. vol. 211; p. 566.
- McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company. Car-signal. No. 1,129,305; Feb. 23; Gaz. vol. 211; p. 1049.
- McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Thermostatic controller for heating systems. No. 1,135,200; Apr. 13; Gaz. vol. 213; p. 441.
- McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Magnetic switch. No. 1,135,201; Apr. 13; Gaz. vol. 213; p. 442.
- McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company. Controller for door-motors. No. 1,145,911; July 13; Gaz. vol. 216; p. 347.
- McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company. Operating mechanism for car-doors. No. 1,145,912; July 13; Gaz. vol. 216; p. 347.
- McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company. Steam-heating system. No. 1,157,237; Oct. 19; Gaz. vol. 219; p. 724.

- McElroy, James F., Albany, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Electric train-lighting system. No. 1,145,328; July 6; Gaz. vol. 216; p. 122.
- McElroy, James F., deceased, Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Door-motor. No. 1,145,908; July 13; Gaz. vol. 216; p. 345.
- McElroy, James F., deceased, Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Steam-trap. No. 1,145,909; July 13; Gaz. vol. 216; p. 346.
- McElroy, James F., deceased, Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Steam-trap. No. 1,145,910; July 13; Gaz. vol. 216; p. 346.
- McElroy, James F., deceased, Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Electromagnet. No. 1,149,275; Aug. 10; Gaz. vol. 217; p. 383.
- McElroy, James F., deceased, Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Valve. No. 1,157,235; Oct. 19; Gaz. vol. 219; p. 723.
- McElroy, James F., Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Train-pipe end valve. No. 1,157,236; Oct. 19; Gaz. vol. 219; p. 723.
- McElroy, James F., deceased, Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Electric switch. No. 1,160,921; Nov. 16; Gaz. vol. 220; p. 970.
- McElroy, James F., deceased, Albany, N. Y.; S. H. McElroy, executrix, assignor to Consolidated Car-Heating Company. Steam-heating system. No. 1,161,872; Nov. 30; Gaz. vol. 220; p. 1395.
- McElroy, John H., trustee. (See Hopkins, Harvey L., assignor.)
- McElroy, John H., Chicago, Ill. Interlocking mechanism for voting-machines and similar structures. No. 1,141,645; June 1; Gaz. vol. 215; p. 198.
- McElroy, John H., Chicago, Ill. Cutting apparatus for mowing-machines, &c. No. 1,158,521; Nov. 2; Gaz. vol. 220; p. 39.
- McElroy, John H., Chicago, Ill. Speed-changing gearing. No. 1,165,426; Dec. 28; Gaz. vol. 221; p. 1065.
- McElroy, Karl P. (See Spencer and McElroy.)
- McElroy, Karl P., Washington, D. C. Hydrogenating process and apparatus. No. 1,157,993; Oct. 26; Gaz. vol. 219; p. 1050.
- McElroy, Patrick J., Cambridge, assignor of one-half to C. P. Blinn, Jr., Boston, and R. Whidden, Brookline, Mass., receivers. Syringe. No. 1,165,686; Dec. 28; Gaz. vol. 221; p. 1157.
- McElroy, Susie H., executrix. (See McElroy, James F.)
- McElroy, Wylie A., Atlanta, Ga. Lathe. No. 1,135,035; Apr. 13; Gaz. vol. 213; p. 385.
- McElwain, James, Wheeling, W. Va., assignor of one-half to B. A. Laws, Pittsburgh, Pa. Engine. No. 1,127,267; Feb. 2; Gaz. vol. 211; p. 212.
- McEnerney, William, New York, N. Y. Adjustable speed mechanism. No. 1,137,769; May 4; Gaz. vol. 214; p. 16.
- McEntire Brothers. (See Brouyette and McEntire, assignors.)
- McEntire, George P. (See Brouyette and McEntire.)
- McEntyre, Levi, Cayuga, Ind. Car-replacer. No. 1,142,340; June 8; Gaz. vol. 215; p. 477.
- McEvoy, Joseph H., Houston, Tex. Well-strainer. No. 1,154,709; Sept. 28; Gaz. vol. 218; p. 922.
- McEwan, Blanche H., Detroit, Mich. Combined hook and holder. No. 1,126,238; Jan. 26; Gaz. vol. 210; p. 1189.
- McEwan, Richard W., Whippany, N. J. Undergarment. No. 1,128,702; Feb. 16; Gaz. vol. 211; p. 801.
- McEwen, George K., Swift Current, Saskatchewan, Canada. Nutcracker. No. 1,129,213; Feb. 23; Gaz. vol. 211; p. 1016.
- McEwen, Willard M. (See Greenberg and Olson, assignors.)
- McEwen, Willard M. (See Lamb, Charles C., assignor.)
- McFadden, Austin, *et al.* (See Houze, Ulgisie, assignor.)
- McFadden, Benjamin B., Binghamton, N. Y. Folding box. No. 1,142,186; June 8; Gaz. vol. 215; p. 424.
- McFadden, John L., Ness-City, Kans. Wire-stretcher. No. 1,153,093; Sept. 7; Gaz. vol. 218; p. 253.
- McFall, Edward J., Tarentum, Pa. Puzzle. No. 1,143,418; June 15; Gaz. vol. 215; p. 895.
- McFarland, Albert C., Chicago, Ill. Pocket key-case. No. 1,138,768; May 11; Gaz. vol. 214; p. 405.
- McFarland, Charles N., Wilkes-Barre, Pa., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,150,949; Aug. 24; Gaz. vol. 217; p. 1096.
- McFarland, Clyde L., Philadelphia, Pa. Extension-foot. No. 1,128,018; Feb. 9; Gaz. vol. 211; p. 516.
- McFarland, Edward. (See Shannon, Robert L., assignor.)
- McFarland, Elmer E., Dayton, Ohio. Sanitary container. No. 1,157,883; Oct. 26; Gaz. vol. 219; p. 1012.
- McFarland, Harvey P., Oquawka, Ill. Silo. No. 1,145,202; July 6; Gaz. vol. 216; p. 79.
- McFarland-Hyde Co. (See Willich, Johan H., assignor.)
- McFarland, James G., Higgins, Tex. Oil-cake feeder. No. 1,129,880; Mar. 2; Gaz. vol. 212; p. 17.
- McFarland, John N. (See Riehl, Justus, assignor.)
- McFarland, Samuel E., assignor to Automatic Retrieving Trolley Corporation, Long Beach, Cal. Automatic retrieving-trolley. No. 1,157,630; Oct. 19; Gaz. vol. 219; p. 858.
- McFarland, Thomas H., and R. D. Lewis, Carnegie, Pa. Insulated rail-joint. No. 1,148,179; July 27; Gaz. vol. 216; p. 1191.
- McFarland, William T., Chicago, Ill. Combined depurator and surgical instrument. No. 1,138,881; May 11; Gaz. vol. 214; p. 446.
- McFarlane, Angus J. (See Kearney and McFarlane.)
- McFarlane, Charles S., Auckland, New Zealand. Rotary pump for gas-producing apparatus. No. 1,153,235; Sept. 14; Gaz. vol. 218; p. 345.
- McFarlane Manufacturing Company. (See Goodrich, Claude M., assignor.)
- McFeaters, George H., Johnstown, Pa. Engine-stop. No. 1,140,694; May 25; Gaz. vol. 214; p. 1152.
- McFee, Edison, Hamilton, Mo. Steam-engine. No. 1,155,939; Oct. 5; Gaz. vol. 219; p. 213.
- McFeely Company, Thomas. (See McFeely and Romick, assignors.)
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-support. No. 1,123,775; Jan. 5; Gaz. vol. 210; p. 198.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,125,360; Jan. 19; Gaz. vol. 210; p. 841.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,129,881; Mar. 2; Gaz. vol. 212; p. 17.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tacking mechanism. No. 1,129,882; Mar. 2; Gaz. vol. 212; p. 17.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-seat-lasting machine. No. 1,129,883; Mar. 2; Gaz. vol. 212; p. 18.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,135,949; Apr. 13; Gaz. vol. 213; p. 702.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,135,950; Apr. 13; Gaz. vol. 213; p. 703.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,135,951; Apr. 13; Gaz. vol. 213; p. 703.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for making boots and shoes. No. 1,135,952; Apr. 13; Gaz. vol. 213; p. 704.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,135,953; Apr. 13; Gaz. vol. 213; p. 704.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,135,954; Apr. 13; Gaz. vol. 213; p. 704.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for use in inserting fastenings. No. 1,135,955; Apr. 13; Gaz. vol. 213; p. 705.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tacking mechanism. No. 1,135,956; Apr. 13; Gaz. vol. 213; p. 705.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tacking mechanism for pulling-over machines. No. 1,135,957; Apr. 13; Gaz. vol. 213; p. 706.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for working uppers over lasts. No. 1,135,958; Apr. 13; Gaz. vol. 213; p. 706.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,145,380; July 6; Gaz. vol. 216; p. 141.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,145,381; July 6; Gaz. vol. 216; p. 141.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Toe-cutting attachment for upper-stretching machines. No. 1,149,202; Aug. 10; Gaz. vol. 217; p. 357.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-supplying mechanism. No. 1,159,401; Nov. 9; Gaz. vol. 220; p. 377.
- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,162,378; Nov. 30; Gaz. vol. 220; p. 1572.

Alphabetical list of patentees—Continued.

- McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,162,704; Nov. 30; Gaz. vol. 220; p. 1680.
- McFeely, Thomas, Folcroft, Pa., and L. Romick, Niles, Ohio, assignors to Thomas McFeely Company, Folcroft, Pa. Bran and middlings finisher. No. 1,141,969; June 8; Gaz. vol. 215; p. 345.
- McFell, Judson, Chicago, Ill. Signal-transmission means. No. 1,140,471; May 25; Gaz. vol. 214; p. 1077.
- McFell, Judson, Chicago, Ill. Fire-alarm system. No. 1,152,527; Sept. 7; Gaz. vol. 218; p. 54.
- McFerran, John A. and M. L., Louisville, Ky. Draft-regulator and smoke-purifier. No. 1,142,721; June 8; Gaz. vol. 215; p. 607.
- McFerran, Milton L. (See McFerran, John A. and M. L.)
- McFerren, Thomas H., Mecca, Ind., assignor to Chicago Fire Brick Co., Chicago, Ill. Mold. No. 1,160,299; Nov. 16; Gaz. vol. 220; p. 749.
- McGaffey, Otis, et al. (See Ammons, John B., assignor.)
- McGaffick, John, Albion, N. Y. Fruit-grader. No. 1,148,914; Aug. 3; Gaz. vol. 217; p. 153.
- McGahey, Richard, Walla Walla, Wash. Cow's-tail holder. No. 1,164,373; Dec. 14; Gaz. vol. 221; p. 619.
- McGann, Owen J., Fox township, Carroll county, Ohio. Shoe-cleaning device. No. 1,138,232; May 4; Gaz. vol. 214; p. 178.
- McGann, William H., assignor to Link Belt Company, Chicago, Ill. Box-car unloader. No. 1,146,267; July 13; Gaz. vol. 216; p. 472.
- McGarry, James P., South Boston, Mass. Antiskidding-chain for vehicle-wheels. No. 1,153,936; Sept. 21; Gaz. vol. 218; p. 628.
- McGarvey, Edward, assignor to International Electric Company, Bellefonte, Pa. Automatic recording-scale. No. 1,149,378; Aug. 10; Gaz. vol. 217; p. 421.
- McGary, Alexander, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, Closet. No. 1,149,529; Aug. 10; Gaz. vol. 217; p. 474.
- McGauley, William H., Bridgeport, Conn. Apparatus for indicating variations in gage of insulated wire. No. 1,133,300; Mar. 30; Gaz. vol. 212; p. 1380.
- McGauran, Duncan J., Geraldton, Western Australia, Australia. Telephone-call recorder. No. 1,128,019; Feb. 9; Gaz. vol. 211; p. 516.
- McGauran, Duncan J., Geraldton, Western Australia, Australia. Telephone-call recorder. No. 1,135,971; Apr. 13; Gaz. vol. 213; p. 711.
- McGee, Charles H., Portland, Me., assignor to Champion Metal Weather Strip and Parting Bead Company, Boston, Mass. Metallic screen. No. 1,132,784; Mar. 23; Gaz. vol. 212; p. 1158.
- McGee, Frank A. (See Northey and McGee.)
- McGee, Franklin E. (See Violi, Claude V., assignor.)
- McGee, James H., assignor of one-eighth to J. H. Coe and one-eighth to A. L. Turner, Butler, Pa. Nut and bolt lock. No. 1,165,615; Dec. 28; Gaz. vol. 221; p. 1131.
- McGee, Joseph C., Grenada, Miss. Machine-brake. No. 1,125,860; Jan. 19; Gaz. vol. 210; p. 1016.
- McGee, Richard B., Trenton, Ky. Cooking utensil. No. 1,125,581; Jan. 19; Gaz. vol. 210; p. 917.
- McGee, Thomas, Madison, S. D. Railway-road-bed-disking machine. No. 1,158,701; Nov. 2; Gaz. vol. 220; p. 101.
- McGee, Thomas, Madison, S. D. Railway mowing-machine. No. 1,158,702; Nov. 2; Gaz. vol. 220; p. 102.
- McGeorge, John, assignor to The Cleveland Engineering Company, Cleveland, Ohio. Wheel for self-propelled vehicles. No. 1,155,315; Sept. 28; Gaz. vol. 218; p. 1128.
- McGettrick, Frank J., and H. J. Kennedy, St. Albans, Vt. Vending-machine. No. 1,128,164; Feb. 9; Gaz. vol. 211; p. 566.
- McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Variable-speed-transmission mechanism. No. 1,143,547; June 15; Gaz. vol. 215; p. 937.
- McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Valve. No. 1,160,300; Nov. 16; Gaz. vol. 220; p. 750.
- McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Log-skidding machine. No. 1,160,301; Nov. 16; Gaz. vol. 220; p. 750.
- McGiffert, John R., and T. H. Blair, Duluth, Minn. Interlocking sheaves and means for operating the same. No. 1,152,528; Sept. 7; Gaz. vol. 218; p. 55.
- McGill, Albert E., Chicago, Ill., assignor, by mesne assignments, to W. S. Ferris, Elkhardt, Ind., and A. B. Leith, Chicago, Ill., trustees. Go-cart. No. 1,123,908; Jan. 5; Gaz. vol. 210; p. 242.
- McGill, Andrew M., and L. B. Howland, Toronto, Ontario, Canada. Power attachment for motor-cars. No. 1,156,418; Oct. 12; Gaz. vol. 219; p. 406.
- McGill Boiler Cleaner Company. (See McGill, Daniel F., assignor.)
- McGill, Daniel F., assignor to McGill Boiler Cleaner Company, Portland, Oreg. Apparatus for cleaning boilers. No. 1,124,634; Jan. 12; Gaz. vol. 210; p. 547.
- McGill, Don M., Chicago, Ill. Passenger-car. No. 1,161,942; Nov. 30; Gaz. vol. 220; p. 1422.
- McGillcuddy, John T., Worcester, Mass. Device for use in playing golf. No. 1,126,051; Jan. 26; Gaz. vol. 210; p. 1119.
- McGillivray, James, Sacramento, Cal. Revetment. No. 1,144,143; June 22; Gaz. vol. 215; p. 1171.
- McGillivray, James, Sacramento, Cal. Revetment. No. 1,144,144; June 22; Gaz. vol. 215; p. 1171.
- McGillivray, James, Sacramento, Cal. Revetment. No. 1,148,915; Aug. 3; Gaz. vol. 217; p. 153.
- McGillivray, James, Sacramento, Cal. Concrete revetment. No. 1,154,867; Sept. 28; Gaz. vol. 218; p. 974.
- McGinley, Charles W., Plainfield, N. J. Clasp. No. 1,132,785; Mar. 23; Gaz. vol. 212; p. 1159.
- McGinley, Evelyn G., Boston, Mass. Portable folding screen. No. 1,141,808; June 1; Gaz. vol. 215; p. 253.
- McGinley, Evelyn G., Boston, Mass. Counting device. No. 1,144,487; June 29; Gaz. vol. 215; p. 1318.
- McGinley, James B., assignor to Handy Manufacturing Company, Pittsburgh, Pa. Outlet-box. No. 1,131,399; Mar. 9; Gaz. vol. 212; p. 574.
- McGinnis, Joseph P., assignor of one-half to C. W. Whelpley, Boston, Mass. Vehicle top-bow clamp. No. 1,144,659; June 29; Gaz. vol. 215; p. 1374.
- McGinnis, Zales S. (See Mapes, John, assignor.)
- McGinty, James, Chicago, Ill. Identification-tag holder. No. 1,153,094; Sept. 7; Gaz. vol. 218; p. 258.
- McGirr, Theodore G., assignor to Usona Machine Company, Springfield, Mass. Wrapping-machine. No. 1,158,522; Nov. 2; Gaz. vol. 220; p. 40.
- McGivern, Hugh J., assignor to United Brass Manufacturing Company, Cleveland, Ohio. Faucet or cock. No. 1,137,343; Apr. 27; Gaz. vol. 213; p. 1280.
- McGlashan, Charles F. (See McGlashan, Ximena, L. G., and C. F.)
- McGlashan, Leonora G. (See McGlashan, Ximena, L. G., and C. F.)
- McGlashan, Ximena, L. G., and C. F., Truckee, Cal. Entomological mount. No. 1,151,280; Aug. 24; Gaz. vol. 217; p. 1208.
- McLaughlin, George G., and A. Mill, Cincinnati, assignors of one-half to said McLaughlin and one-half to L. K. Slaback, Silverton, Ohio. Post-forming machine. No. 1,158,703; Nov. 2; Gaz. vol. 220; p. 102.
- McLaughlin, Alfred I., New York, N. Y. Pivotal turning means for automobiles. No. 1,126,052; Jan. 26; Gaz. vol. 210; p. 1119.
- McGlynn, Robert E., San Francisco, Cal. Compression-pump. No. 1,141,571; June 1; Gaz. vol. 215; p. 173.
- McGoldrick, John, Baltimore, Md. Life-boat and launching mechanism therefor. No. 1,134,630; Apr. 6; Gaz. vol. 213; p. 199.
- McGonigal, Jerome T., Pottersdale, assignor of one-half to T. Bowman, Clearfield, Pa. Railway-tie plate. No. 1,151,891; Aug. 31; Gaz. vol. 217; p. 1464.
- McGonigle, Thomas G., Lambton Mills, Ontario, Canada. Rotary engine. No. 1,154,645; Sept. 28; Gaz. vol. 218; p. 901.
- McGough, Frank, Sr., Albuquerque, N. Mex. Adjustable motor guide and holder. No. 1,126,053; Jan. 26; Gaz. vol. 210; p. 1120.
- McGovern, Hugh H., Oak Grove, Oreg. Ore-separator. No. 1,139,206; May 11; Gaz. vol. 214; p. 561.
- McGovern, Thomas W. (See Ames, Joseph A., assignor.)
- McGowan, Herbert T., Prahram, Victoria, Australia. Attachment for the plates of artificial teeth. No. 1,159,971; Nov. 9; Gaz. vol. 220; p. 583.
- McGowan, Owen J., New York, assignor to W. Wilson, Brooklyn, N. Y. Marine-engine-throttling apparatus. No. 1,155,669; Oct. 5; Gaz. vol. 219; p. 120.
- McGowan, William, Spickard, Mo. Combination square, miter, and gage tool. No. 1,127,468; Feb. 9; Gaz. vol. 211; p. 323.
- McGowan, William L., Spickard, Mo. Hog-ringer. No. 1,136,149; Apr. 20; Gaz. vol. 213; p. 814.
- McGrath, Frederick. (See Coughlin, John G., assignor.)
- McGrath, John H., Knoxville borough, Pa. Emergency sand-valve. No. 1,141,131; June 1; Gaz. vol. 215; p. 14.
- McGrath, John T., Bloomington, Ill. Dish-washing machine. No. 1,142,187; June 8; Gaz. vol. 215; p. 424.
- McGrath, John T., Bloomington, Ill. Dish-washing machine. No. 1,143,216; June 15; Gaz. vol. 215; p. 824.
- McGrath, John T., Bloomington, Ill. Dish-washing machine. No. 1,143,217; June 15; Gaz. vol. 215; p. 825.
- McGrath, Joseph, Manteno, Ill. Adjustable hog-gambrel. No. 1,148,393; July 27; Gaz. vol. 216; p. 1267.
- McGrath, Lili A., Brookhaven, Miss. Floor-polisher. No. 1,136,150; Apr. 20; Gaz. vol. 213; p. 814.
- McGrath, William L., and G. W. Clark, Westfield, Mass., assignors to G. Pope, C. A. Morss, and C. A. Persons, receivers. Bicycle-stand. No. 1,130,094; Mar. 2; Gaz. vol. 212; p. 88.
- McGray, Arthur N., New York, N. Y. Life-saving apparatus. No. 1,130,528; Mar. 2; Gaz. vol. 212; p. 242.
- McGray, Arthur N., New York, N. Y. Hatch-cover for ships. No. 1,158,946; Nov. 2; Gaz. vol. 220; p. 187.
- McGregor, Alexander G., Globe, Ariz. Car. No. 1,143,641; June 22; Gaz. vol. 215; p. 995.
- McGregor, Alexander G., Globe, Ariz. Sampling apparatus. No. 1,155,670; Oct. 5; Gaz. vol. 219; p. 120.
- McGregor, Allan L., Chicago, Ill. Adjusting means for automobile-buffers. No. 1,158,947; Nov. 2; Gaz. vol. 220; p. 188.
- McGregory, Fred, Decatur, Ill. Automobile-signal. No. 1,126,807; Feb. 2; Gaz. vol. 211; p. 51.

Alphabetical list of patentees—Continued.

- McGrew, John L., Washington, D. C. Head-guard. No. 1,163,247; Dec. 7; Gaz. vol. 221; p. 180.
- McGrouary, Edward J., and M. S. Van Dresar, St. Paul, Minn.; said Van Dresar assignor to said McGrouary. Smoke-consumer for locomotives. No. 1,128,476; Feb. 16; Gaz. vol. 211; p. 724.
- McGuckin, Henry J. (See Walsh, John P., assignor.)
- McGuire, Emerson P., Van Houten, N. Mex. Chain-tool. No. 1,133,870; Mar. 30; Gaz. vol. 212; p. 1585.
- McGuire, Frank A., Iola, Kans. Journal-box. No. 1,155,831; Oct. 5; Gaz. vol. 219; p. 177.
- McGuire, Frank J., Norfolk, Va. Block-mold. No. 1,163,248; Dec. 7; Gaz. vol. 221; p. 180.
- McGuire, John J., New York, N. Y. Dumping-wagon. No. 1,133,301; Mar. 30; Gaz. vol. 212; p. 1380.
- McGuire, John J., New York, N. Y. Dust-proof guard for automatic axle-ollers. No. 1,142,260; June 8; Gaz. vol. 215; p. 450.
- McGuire, Joseph T., Newcastle-upon-Tyne, England. Pneumatic-tire gaiter. No. 1,137,876; May 4; Gaz. vol. 214; p. 53.
- McGuire, Thomas S., Carlisle, Pa. Grinding-machine. No. 1,137,647; Apr. 27; Gaz. vol. 213; p. 1382.
- McGuire, Walter S., Shadyside, Ohio. Flash-light. No. 1,130,529; Mar. 2; Gaz. vol. 212; p. 242.
- McGuire, William J., assignor to Wray's Fresh Water System, Kewanee, Ill. Device for elevating fluids. No. 1,142,762; June 8; Gaz. vol. 215; p. 623.
- McGuirk, Charles W. (See Durham and McGuirk.)
- McGuirk, Felix H., Pueblo, Colo. Acetylene-gas generator. No. 1,165,887; Dec. 28; Gaz. vol. 221; p. 1226.
- McHale, Martin J., Chicago, Ill. Wool-drying device. No. 1,134,053; Mar. 30; Gaz. vol. 212; p. 1643.
- McHarg, Arthur V. A. (See Murray and McHarg.)
- McHardy, James A. (See Howard and McHardy.)
- McHardy, Percy A., Beaulieu, Palmerston North, New Zealand. Means for use in attaching fencing-wires to standards or droppers. No. 1,162,628; Nov. 30; Gaz. vol. 220; p. 1655.
- McHenry, Clyde D., Martins Ferry, Ohio. Emulsifier. No. 1,154,868; Sept. 28; Gaz. vol. 218; p. 974.
- McHenry, Clyde D., Martins Ferry, Ohio. Gas-generating apparatus. No. 1,154,869; Sept. 28; Gaz. vol. 218; p. 975.
- McHenry, Samuel B., Chicago, Ill. Astronomical demonstrating device. No. 1,134,473; Apr. 6; Gaz. vol. 213; p. 142.
- McHollan, James A., New York, N. Y. Lettering-machine. No. 1,125,582; Jan. 19; Gaz. vol. 210; p. 917.
- McHose, Edwin B., Aaronsbury, Pa. Shipping-case. No. 1,139,207; May 11; Gaz. vol. 214; p. 561.
- McHugh, Bernard. (See Smith and McHugh.)
- McHugh, Frank, Philadelphia, Pa. Feed-water heater. No. 1,148,605; Aug. 3; Gaz. vol. 217; p. 44.
- McHugh, Lawrence E., Dubois, Pa. Mail-catcher. No. 1,150,281; Aug. 17; Gaz. vol. 217; p. 807.
- McIlroy, David S., and W. Gibb, Calgary, Alberta, Canada. Flush-tank. No. 1,140,053; May 18; Gaz. vol. 214; p. 895.
- McIlroy, George. (See Jeter and McIlroy.)
- McIlroy, Peter, Allison Park, assignor to Enameled Metals Company, Sharpsburg, Pa. Protector for pipes or conduit units. No. 1,165,427; Dec. 28; Gaz. vol. 221; p. 1068.
- McIlvane, William P., *et al.* (See Judick, Richard W., assignor.)
- McIlvried, Howard G., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Bar-piler. No. 1,129,214; Feb. 23; Gaz. vol. 211; p. 1017.
- McIntire, Charles V., Indianapolis, Ind., assignor to H. Koppers Company, Chicago, Ill. Operating device for coke-oven doors. No. 1,141,132; June 1; Gaz. vol. 215; p. 14.
- McIntire, Jacob N., assignor to The Brunswick-Balke-Coller Company of New York, New York, N. Y. Bowling-alley ball-returnway. No. 1,144,145; June 22; Gaz. vol. 215; p. 1171.
- McIntire, Roderick A., *et al.* (See Truesdell, John P., assignor.)
- McIntosh, Burnett, New York, N. Y. Crib. No. 1,135,122; Apr. 13; Gaz. vol. 213; p. 415.
- McIntosh, David A., Vancouver, Canada, assignor to Burpee and Letson, Limited, South Bellingham, Wash. Can-heating retort. No. 1,151,111; Aug. 24; Gaz. vol. 217; p. 1149.
- McIntosh, Frances E. (See Smyth, Ezra, assignor.)
- McIntosh, James, New York, N. Y. Combined electrolier and telephone-cover. No. 1,153,507; Sept. 14; Gaz. vol. 218; p. 444.
- McIntosh, Ralph, Cleveland, Ohio. Shield for gage-glasses. No. 1,157,708; Oct. 26; Gaz. vol. 219; p. 951.
- McIntosh, Peter E., *et al.* (See Bush, Howard E., assignor.)
- McIntosh, Robert, Ashland, Ohio. Jack. No. 1,124,492; Jan. 12; Gaz. vol. 210; p. 495.
- McIntyre, David, assignor to Blystone Manufacturing Company, Cambridge Springs, Pa. Hollow block. No. 1,128,020; Feb. 9; Gaz. vol. 211; p. 517.
- McIntyre, Duncan B., Montreal, Quebec, Canada. Pipe and cable hanger. No. 1,137,069; Apr. 27; Gaz. vol. 213; p. 1178.
- McIntyre, Herbert L., Burlington, Kans. Hen's nest. No. 1,130,095; Mar. 2; Gaz. vol. 212; p. 88.
- McIntyre, John D., Everett, Mass. Device for soaking corks. No. 1,126,239; Jan. 26; Gaz. vol. 210; p. 1189.
- McIntyre, Michael J., assignor of one-half to W. Brennan, Jr., Buffalo, N. Y. Game apparatus. No. 1,128,887; Feb. 16; Gaz. vol. 211; p. 866.
- McIntyre, Michael M., assignor to The Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 1,135,036; Apr. 13; Gaz. vol. 213; p. 385.
- McIntyre, Michael M., assignor to The Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 1,141,194; June 1; Gaz. vol. 215; p. 36.
- McIntyre, Michael M., assignor to The Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 1,155,752; Oct. 5; Gaz. vol. 219; p. 148.
- McIntyre, Robert L., Brooklyn, N. Y. Rotary gasoline-engine. No. 1,151,489; Aug. 24; Gaz. vol. 217; p. 1277.
- McIntyre, Walter L., Memphis, Tenn. Automobile-cover. No. 1,157,115; Oct. 19; Gaz. vol. 219; p. 680.
- McIntyre, William. (See Martin, William J., assignor.)
- McIntyre, William J., and D. Weir, assignors to The Allen Manufacturing Company, Hartford, Conn. Threading-die. No. 1,165,989; Dec. 28; Gaz. vol. 221; p. 1262.
- McIntyre, Winfield E., Syracuse, N. Y. Paper-making machine. No. 1,149,379; Aug. 10; Gaz. vol. 217; p. 421.
- McJunkin, Ulysses G., Ignacio, Colo. Nail holder and carrier. No. 1,139,879; May 18; Gaz. vol. 214; p. 833.
- McKaig, Eddy T., assignor of one-half to H. G. Hascall, Chicago, Ill. Motor-plow. No. 1,126,054; Jan. 26; Gaz. vol. 210; p. 1120.
- McKaig, Eddy T., assignor of one-half to H. G. Hascall, Chicago, Ill. Tractor. No. 1,130,314; Mar. 2; Gaz. vol. 212; p. 164.
- McKaig, James S., Philadelphia, Pa. Oil-burner. No. 1,149,932; Aug. 10; Gaz. vol. 217; p. 621.
- McKay, Augusta P., Rome, Ga. Reversible disk plow. No. 1,137,770; May 4; Gaz. vol. 214; p. 17.
- McKay, Augusta P., Rome, Ga. Reversible disk plow and cultivator. No. 1,165,267; Dec. 21; Gaz. vol. 221; p. 971.
- McKay, Charles, Maple Lake, Minn. Car-step. No. 1,145,779; July 6; Gaz. vol. 216; p. 282.
- McKay, Ernest G., Strathclair, Manitoba, Canada. Ironing-machine. No. 1,165,191; Dec. 21; Gaz. vol. 221; p. 945.
- McKay, George L., Evanston, Ill. Liquid-sampling device. No. 1,156,240; Oct. 12; Gaz. vol. 219; p. 342.
- McKay, George W., Portland, Oreg. Toy hoop. No. 1,162,868; Dec. 7; Gaz. vol. 221; p. 47.
- McKay, Joseph, assignor to Hall, Hartwell & Company, Troy, N. Y. Neckband-shaper. No. 1,148,606; Aug. 3; Gaz. vol. 217; p. 44.
- McKay, Joseph A. (See Campton and McKay.)
- McKay, Richard V. (See Carney and McKay.)
- McKay, Thomas P., *et al.* (See Groh, Robert C., assignor.)
- McKay, William A. (See Claussen and McKay.)
- McKay, William A., and M. Claussen, San Francisco, Cal. Portable incandescent lamp. No. 1,133,733; Mar. 30; Gaz. vol. 212; p. 1535.
- McKay, William A., and M. Claussen, San Francisco, Cal. Lamp-stand body. No. 1,142,108; June 8; Gaz. vol. 215; p. 397.
- McKeage, Benjamin F., Jr., Binghamton, N. Y. Foldable box. No. 1,127,052; Feb. 2; Gaz. vol. 211; p. 137.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,126,808; Feb. 2; Gaz. vol. 211; p. 51.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Winding-machine. No. 1,126,809; Feb. 2; Gaz. vol. 211; p. 51.
- McKean, Thomas A., Hagerstown, Md. Driving-box and hub-liner for locomotives. No. 1,156,911; Oct. 19; Gaz. vol. 219; p. 608.
- McKean, William L., Martins Ferry, Ohio. Machine for cleaning and polishing tin sheets. No. 1,155,671; Oct. 5; Gaz. vol. 219; p. 120.
- McKechnie, Archibald E. (See Shephard and McKechnie.)
- McKechnie, Benjamin E. (See Dutton and McKechnie.)
- McKechnie, James, assignor to Vickers Limited, Barrow-in-Furness, England. Injection of liquid fuel in internal-combustion engines. No. 1,147,806; July 27; Gaz. vol. 216; p. 1056.
- McKee, Amanda J., Enid, Okla. Toilet-paper bracket. No. 1,165,524; Dec. 28; Gaz. vol. 221; p. 1099.
- McKee, Harry M. (See Priddy, Miells H., assignor.)
- McKee, Lanier, *et al.* (See Golly, Louis, assignor.)
- McKee, McKendree H., South Bend, Ind. Reinforced concrete construction. No. 1,142,109; June 8; Gaz. vol. 215; p. 397.
- McKee, Milton A., Westerly, R. I., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Printing machinery. No. 1,164,296; Dec. 14; Gaz. vol. 221; p. 590.
- McKee, Neal T. (See True and McKee.)
- McKee, Neal T., Dobbs Ferry, assignor to Locomotive Superheater Company, New York, N. Y. Steam-collector for superheaters. No. 1,124,493; Jan. 12; Gaz. vol. 210; p. 495.

Alphabetical list of patentees—Continued.

- McKee, Neal T., Dobbs Ferry, assignor to Locomotive Superheater Company, New York, N. Y. Gipping and forging die. No. 1,151,601; Aug. 31; Gaz. vol. 217; p. 1364.
- McKee, Ralph H., Orono, Me. Purification of liquids. No. 1,133,049; Mar. 23; Gaz. vol. 212; p. 1256.
- McKee, Raymond E., Chicago, Ill. Combined dresser-cabinet and disappearing table. No. 1,128,477; Feb. 16; Gaz. vol. 211; p. 724.
- McKee, Thomas J. (See Haverstick and McKee.)
- McKee, Walter S., Chicago, Ill., assignor to Edgar Allen American Manganese Steel Company, Augusta, Me. Railway-crossing. No. 1,152,032; Aug. 31; Gaz. vol. 217; p. 1513.
- McKee, William E., Warren, Ariz. Steam-generator. No. 1,152,898; Sept. 7; Gaz. vol. 218; p. 191.
- McKee, Willis. (See Bentz and McKee.)
- McKee, Willis, assignor to The Elyria Iron & Steel Company, Elyria, Ohio. Apparatus for removing burrs. No. 1,135,705; Apr. 13; Gaz. vol. 213; p. 618.
- McKeel, George A., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Mold-making machine. No. 1,145,203; July 6; Gaz. vol. 216; p. 79.
- McKeen Motor Car Company. (See McKeen, William R., assignor.)
- McKeen Motor Car Company. (See McKeen, William R., Jr., assignor.)
- McKeen, William R., assignor to McKeen Motor Car Company, Omaha, Nebr. Starting mechanism. No. 1,159,692; Nov. 9; Gaz. vol. 220; p. 481.
- McKeen, William R., Jr., assignor to McKeen Motor Car Company, Omaha, Nebr. Air-heater for carbureters. No. 1,132,199; Mar. 16; Gaz. vol. 212; p. 894.
- McKeen, William R., Jr., and B. Jullen, Omaha, Nebr. Car-heater. No. 1,146,187; July 13; Gaz. vol. 216; p. 444.
- McKeesport Tin Plate Company. (See Reynard, Charles M., assignor.)
- McKeever, Charles, Jersey City, N. J. Rattle-stopper. No. 1,131,400; Mar. 9; Gaz. vol. 212; p. 575.
- McKeever, James A., New York, N. Y. Automatic change-speed device. No. 1,137,507; Apr. 27; Gaz. vol. 213; p. 1336.
- McKellips, Millard. (See Harkrader, and Manyan, assignors.)
- McKelvy, William, Winnipeg, Manitoba, Canada. Life-preserver and protector. No. 1,129,108; Feb. 23; Gaz. vol. 211; p. 981.
- McKendrick, James H., Media, Pa. Paper bag. No. 1,134,341; Apr. 6; Gaz. vol. 213; p. 94.
- McKenna, Daniel A., Brooklyn, N. Y. Slip-on inking-roller. No. 1,143,419; June 15; Gaz. vol. 215; p. 895.
- McKenna, Philip M., assignor to Chemical Products Company, Washington, D. C. Separating cobalt from ores or by-products. No. 1,166,067; Dec. 28; Gaz. vol. 221; p. 1287.
- McKenna, Terence F. (See La Rock, John, assignor.)
- McKenney, Frank B., assignor to M. S. Holt, Weston, W. Va. Carrier for eggs and other products. No. 1,123,565; Jan. 5; Gaz. vol. 210; p. 125.
- McKenney, Martin C., W. H. Swan, and F. J. Peacock, assignors to Sanitary Utilities Company, San Bernardino, Cal. Sanitary churn. No. 1,148,786; Aug. 3; Gaz. vol. 217; p. 109.
- McKenney, William R. (See Mueller and McKenney.)
- McKenzie, Alexander, Kippen, Ontario, Canada. Belly-band attachment. No. 1,123,566; Jan. 5; Gaz. vol. 210; p. 126.
- McKenzie, Angus A., Cambridge, Mass. Folding supporting-frame for portable band-vises. No. 1,151,959; Aug. 31; Gaz. vol. 217; p. 1486.
- McKenzie, Duncan, Winnipeg, Manitoba, Canada. Smoke-plug. No. 1,137,344; Apr. 27; Gaz. vol. 213; p. 1280.
- McKenzie, Fayette A. (See Sherer, Harvey C., assignor.)
- McKenzie, George. (See Westergard, Christ, assignor.)
- McKenzie, George, Everett, Wash. Device for locating and raising sunken vessels. No. 1,124,231; Jan. 5; Gaz. vol. 210; p. 353.
- McKenzie, John V., La Salle, Ill. Attachment for sewing-machines. No. 1,163,427; Dec. 7; Gaz. vol. 221; p. 242.
- McKenzie, Thomas W., assignor to one-half to C. Oeffering, Indianapolis, Ind. Steering-wheel for motor-cars. No. 1,160,738; Nov. 16; Gaz. vol. 220; p. 907.
- McKenzie, William M., Dorchester Center, Mass. Separator. No. 1,126,240; Jan. 26; Gaz. vol. 210; p. 1189.
- McKeon, John, Great Falls, Mont. Telegraph-repeater. No. 1,147,636; July 20; Gaz. vol. 216; p. 972.
- McKeown, William C., Buffalo, N. Y. Intensifier for hot-water heating systems. No. 1,139,130; May 11; Gaz. vol. 214; p. 535.
- McKeown, William C., assignor to United States Incinerator Company, Buffalo, N. Y. Incinerator. No. 1,140,472; May 25; Gaz. vol. 214; p. 1077.
- McKeriban, Thomas J., Altoona, Pa. Locomotive-boiler. No. 1,132,200; Mar. 16; Gaz. vol. 212; p. 895.
- McKerrow, Arnold, H. Walton, and G. E. Shearsmith, assignors to Drake Printing Company, Limited, Manchester, England. Making transfers. No. 1,161,711; Nov. 23; Gaz. vol. 220; p. 1294.
- McKesson, Charles L., Colorado Springs, and B. F. Rice, Denver, Colo. Apparatus for sizing or volumetric grading materials. No. 1,127,469; Feb. 9; Gaz. vol. 211; p. 323.
- McKesson, Charles L., Colorado Springs, and B. F. Rice, Denver, Colo. Apparatus for sizing or volumetric grading of materials. No. 1,135,123; Apr. 13; Gaz. vol. 213; p. 415.
- McKibben, Columbus, Aransas Pass, Tex. Bascule-bridge. No. 1,128,478; Feb. 16; Gaz. vol. 211; p. 725.
- McKie, Robert J. (See Comstock and McKie.)
- McKiernan-Terry Drill Company. (See Sturtevant, Thomas E., assignor.)
- McKillip, Frank L., assignor to The Up-To-Date Machine Company, Green Bay, Wis. Grinding-disk. No. 1,137,994; May 4; Gaz. vol. 214; p. 95.
- McKillop, Andrew, Downsville, Cal. Wheel. No. 1,124,934; Jan. 12; Gaz. vol. 210; p. 652.
- McKilm, James A., Greensburg, Ind. Head-lamp control. No. 1,141,809; June 1; Gaz. vol. 215; p. 253.
- McKinlay, Edward S., Steamboat Springs, Colo. Screen for ores and coal and other material. No. 1,153,804; Sept. 14; Gaz. vol. 218; p. 547.
- McKinley, A. W., et al. (See Thompson, Jay L., assignor.)
- McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Spring-shackle mounting. No. 1,151,028; Aug. 24; Gaz. vol. 217; p. 1123.
- McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Lubricator-Indicator. No. 1,151,029; Aug. 24; Gaz. vol. 217; p. 1123.
- McKinley, Clyde S., East St. Louis, Ill. Pipe-hanger. No. 1,156,241; Oct. 12; Gaz. vol. 219; p. 342.
- McKinley, Henry E. (See Healey and McKinley.)
- McKinley, John A., Jr. (See Owles and McKinley, Jr.)
- McKinley, Patrick J., Brooklyn, N. Y. Soap and glass holder. No. 1,134,144; Apr. 6; Gaz. vol. 213; p. 22.
- McKinney, Albert R., Bristol, Va. Intermediate chuck-jaw. No. 1,161,490; Nov. 23; Gaz. vol. 220; p. 1218.
- McKinney, Caleb W., Fresno, Cal. Fruit-bracing gate. No. 1,147,637; July 20; Gaz. vol. 216; p. 972.
- McKinney, Edward P., Binghamton, N. Y. Stand for pressing-irons. No. 1,164,108; Dec. 14; Gaz. vol. 221; p. 527.
- McKinney, Joseph J. (See Wiseman, McKinney, and Wiseman.)
- McKinney, Ora O., Frankfort, Ind. Agricultural machine. No. 1,141,195; June 1; Gaz. vol. 215; p. 37.
- McKinney, Samuel L., Pekin, assignor to Elevator Locks Co., Peoria, Ill. Safety appliance for elevators. No. 1,144,965; June 29; Gaz. vol. 215; p. 1480.
- McKinnis, Fredrick E., Arlington, S. D. Stock-rack. No. 1,130,315; Mar. 2; Gaz. vol. 212; p. 164.
- McKinnon, Charles, and W. C. Brouff, Oakland, New South Wales, assignors of one-half to P. P. Gell, Burrowgong, Corowa, and C. McI'herson, Yarrowong, Moira, Australia. Resilient wheel. No. 1,131,534; Mar. 9; Gaz. vol. 212; p. 620.
- McKinnon, Donald J., Toronto, Ontario, Canada, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion motor. No. 1,149,380; Aug. 10; Gaz. vol. 217; p. 422.
- McKinny, George W., Chicago, Ill. Vehicle brake and lock. No. 1,166,138; Dec. 28; Gaz. vol. 221; p. 1316.
- McKinzie, Mortimer, Brooklyn, assignor to W. Northcroft, New York, N. Y. Window-ventilator. No. 1,158,252; Oct. 26; Gaz. vol. 219; p. 1141.
- McKissick, William H., Taft, Cal. Device for holding well-tubings. No. 1,147,108; July 20; Gaz. vol. 216; p. 786.
- McKittrick, John L. (See Marston and McKittrick.)
- McKittrick, John T., Fort Madison, Iowa. Penholder. No. 1,157,994; Oct. 26; Gaz. vol. 219; p. 1050.
- McKnight, Alexander, Brooklyn, N. Y. Sound-preventing means. No. 1,144,660; June 29; Gaz. vol. 215; p. 1375.
- McKnight, Alexander, Brooklyn, N. Y. Bed-frame. No. 1,144,661; June 29; Gaz. vol. 215; p. 1375.
- McKnight, Henry J., Shelburne Falls, Mass. Mason's corner plumb and gage. No. 1,145,694; July 6; Gaz. vol. 216; p. 251.
- McKnight, Isalah, Louisville, Ky. Harness-trimming. No. 1,157,562; Oct. 19; Gaz. vol. 219; p. 836.
- McKnight, John A., assignor, by mesne assignments, to Spring Governor Company, Chicago, Ill. Shock-absorber. No. 1,142,044; June 8; Gaz. vol. 215; p. 373.
- McKnight, Thomas R., assignor to Western Wheel & Scraper Company, Aurora, Ill. Dump-car. No. 1,154,261; Sept. 21; Gaz. vol. 218; p. 740.
- McKnight, Thomas R., assignor to Western Wheel & Scraper Company, Aurora, Ill. Valve. No. 1,160,302; Nov. 16; Gaz. vol. 220; p. 750.
- McLain, Finis H., University Place, assignor to one-half to W. A. Selleck, Lincoln, Nebr. Collapsible crate. No. 1,135,598; Apr. 13; Gaz. vol. 213; p. 579.
- McLain, Finis H., University Place, assignor to one-half to W. A. Selleck, Lincoln, Nebr. Shipping-crate. No. 1,135,599; Apr. 13; Gaz. vol. 213; p. 580.
- McLain, John E. (See Geterman, Charles J., assignor.)
- McLain, John E. (See Hollis, Joseph, assignor.)
- McLain, John E. (See Yeakley, Melvin A., assignor.)

Alphabetical list of patentees—Continued.

- McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. System of control. No. 1,164,297; Dec. 14; Gaz. vol. 221; p. 591.
- McLanahan, Austin. (See Potts, Louis M., assignor.)
- McLane, Alexander, Lansford, and J. Churnside, Hudson, Pa. Detachable connector. No. 1,143,218; June 15; Gaz. vol. 215; p. 825.
- McLane, George E., Philadelphia, Pa. Combined level, square, plumb, and bevel. No. 1,125,861; Jan. 19; Gaz. vol. 210; p. 1017.
- McLane, Milton A., Middletown, Ohio. Punch. No. 1,155,590; Oct. 5; Gaz. vol. 219; p. 91.
- McLaren, Charles E., Graham, Tex. Faucet. No. 1,129,215; Feb. 23; Gaz. vol. 211; p. 1017.
- McLaren, Chester, Oakland, Cal. Tramway-carrier. No. 1,136,352; Apr. 20; Gaz. vol. 213; p. 885.
- McLaren, Chester, Oakland, Cal. Multiple-disk power transmission. No. 1,157,238; Oct. 19; Gaz. vol. 219; p. 724.
- McLaren, Donald, assignor of one-half to J. J. Robinson, Fort William, Ontario, Canada. Canoe motor-frame. No. 1,141,196; June 1; Gaz. vol. 215; p. 37.
- McLaren, Kate C., Oakland, Cal. Skirt-marker. No. 1,156,365; Oct. 12; Gaz. vol. 219; p. 386.
- McLaren, Peter, Whittier, Cal. Automobile-signal. No. 1,164,832; Dec. 21; Gaz. vol. 221; p. 820.
- McLaren, William A., Pasadena, Cal. Hose-standard. No. 1,137,995; May 4; Gaz. vol. 214; p. 95.
- McLaughlin, Daniel M., Louisville, Ky. Flushometer. No. 1,161,781; Nov. 23; Gaz. vol. 220; p. 1317.
- McLaughlin, Eugene F., assignor of one-half to T. S. Hering, Anoka, Minn. Car-door. No. 1,126,241; Jan. 26; Gaz. vol. 210; p. 1190.
- McLaughlin, Hugh E., New York, N. Y. Artificial-stone facing slab or tile. No. 1,152,427; Sept. 7; Gaz. vol. 218; p. 16.
- McLaughlin, James E., Chicago, Ill. Puncture-proof shield for tires. No. 1,133,486; Mar. 30; Gaz. vol. 212; p. 1445.
- McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,140,273; May 18; Gaz. vol. 214; p. 970.
- McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,140,274; May 18; Gaz. vol. 214; p. 970.
- McLaughlin, Milton P., Wakefield, Mass. Flexible conduit. No. 1,128,798; Feb. 16; Gaz. vol. 211; p. 834.
- McLaughlin, Milton P., Wakefield, assignor of one-half to D. J. Hurley, Boston, Mass. Mat for running-boards. No. 1,157,631; Oct. 19; Gaz. vol. 219; p. 858.
- McLaughlin, Patrick. (See Smith, Charles R., assignor.)
- McLaughlin, Thomas, Saginaw, Mich., assignor to G. V. Carroll, Chicago, Ill. Egg-testing device. No. 1,146,434; July 13; Gaz. vol. 216; p. 531.
- McLaughlin, William, Scranton, Pa. Lubricating device. No. 1,157,023; Oct. 19; Gaz. vol. 219; p. 648.
- McLaughlin, William E., Middletown, Ohio. Lamp-lock. No. 1,125,143; Jan. 19; Gaz. vol. 210; p. 761.
- McLaughlin, William H., assignor of one-half to C. Tole, Lancaster, Pa. Chain-link connector. No. 1,166,068; Dec. 28; Gaz. vol. 221; p. 1288.
- McLaurin, Richard A., Glasgow, Scotland. Producing leather substitutes. No. 1,130,619; Mar. 2; Gaz. vol. 212; p. 272.
- McLean, Arthur, Seattle, Wash. Wrench. No. 1,150,687; Aug. 17; Gaz. vol. 217; p. 948.
- McLean, Charles D., and G. H. Holt, Berlin, N. H. Electric-current tap. No. 1,146,084; July 13; Gaz. vol. 216; p. 408.
- McLean, Edwin D., Marissa, Ill. Boiler-cleaning device. No. 1,158,948; Nov. 2; Gaz. vol. 220; p. 188.
- McLean, Frederic. (See De Gaston and McLean.)
- McLean, George B. (See McLean, Leonard D. and G. B.)
- McLean, John J., Moose Jaw, Saskatchewan, Canada. Internal-combustion engine. No. 1,127,659; Feb. 2; Gaz. vol. 211; p. 385.
- McLean, Joseph W., Tucson, Ariz. Sash-holder. No. 1,157,318; Oct. 19; Gaz. vol. 219; p. 752.
- McLean, Leonard D. and G. B., Elizabeth, Ill. Fly-trap. No. 1,131,535; Mar. 9; Gaz. vol. 212; p. 621.
- McLean, William E., and T. C. Coull, Dunedin, New Zealand. File and binder. No. 1,150,442; Aug. 17; Gaz. vol. 217; p. 861.
- McLeer, Charles B. and J. F., Brooklyn, N. Y., assignors to Electric Carrier Company, Wilmington, Del. Electric railway. No. 1,127,470; Feb. 9; Gaz. vol. 211; p. 324.
- McLeer, Joseph F. (See McLeer, Charles B. and J. F.)
- McLeland, Jerome. (See Bates and McLeland.)
- McLellan, Joseph H. (See Wohlcke and McLellan.)
- McLendon, Gordon E., Memphis, Tenn. Combined ironing-board and step-ladder. No. 1,130,417; Mar. 2; Gaz. vol. 212; p. 201.
- McLennan, Alexander, Ross Hereford, England. Treatment of leather for waterproofing the same and rendering it non-slipping. No. 1,150,047; Aug. 17; Gaz. vol. 217; p. 722.
- McLeod, Clifford J., Hyde Park, Mass. Stay for corsets, collars, &c. No. 1,142,045; June 8; Gaz. vol. 215; p. 373.
- McLeod, Hugh, Hatfield, Mass. Combined trunk and seat. No. 1,124,769; Jan. 12; Gaz. vol. 210; p. 595.
- McLeod, John E., Washington, Kans. Resilient rear-wheel fork for motor-cycles. No. 1,147,415; July 20; Gaz. vol. 216; p. 895.
- McLeod, Robert S. (See Wood and McLeod.)
- McLoney, Dewitt T., Florence, Colo. Ankle-brace for skates. No. 1,140,473; May 25; Gaz. vol. 214; p. 1078.
- McLoom, Patrick, Glencoe, assignor of one-half to P. J. Dauernheim, St. Louis, Mo. Steam-boiler. No. 1,135,908; Apr. 13; Gaz. vol. 213; p. 688.
- McLoy, Jesse J., Clifton, Ariz. Automatic egg-beater. No. 1,148,032; July 27; Gaz. vol. 216; p. 1137.
- McLucas, John L., et al. (See Stroud, Thomas L., assignor.)
- McMackin, Hugh J., Boston, Mass. Pasting-machine. No. 1,144,717; June 29; Gaz. vol. 215; p. 1396.
- McMahon, Frank B., New York, N. Y. Stationary non-brush device for wool-combers. No. 1,156,912; Oct. 19; Gaz. vol. 219; p. 608.
- McMahon, Harry W., Seattle, Wash. Trolling-spoon. No. 1,136,475; Apr. 20; Gaz. vol. 213; p. 931.
- McMahon, J. A. (See Baylis, Everest A., assignor.)
- McMahon, Phillip, Mitchell, S. D. Railway-rail. No. 1,147,109; July 20; Gaz. vol. 216; p. 787.
- McMahon, Thomas G. (See Fritz, Gustav E., assignor.)
- McMahon, Thomas G. (See Fritz and McMahon.)
- McMahon, Thomas G., Winnetka, assignor of one-half to G. E. Fritz, Chicago, Ill. Artificial tooth. No. 1,128,703; Feb. 16; Gaz. vol. 211; p. 802.
- McManamy, John, Grand Rapids, and A. Reid, Saginaw, Mich. Pump-governor. No. 1,156,165; Oct. 12; Gaz. vol. 219; p. 318.
- McManigal, Robert D., Logan, Ohio. Draft-air-heating system for furnaces. No. 1,146,188; July 13; Gaz. vol. 216; p. 445.
- McMann, James L., Struthers, Ohio. Automobile-jack. No. 1,151,960; Aug. 31; Gaz. vol. 217; p. 1487.
- McMann, Margaret H., New York, N. Y. Nipple for nursing-bottles. No. 1,147,740; July 27; Gaz. vol. 216; p. 1035.
- McManus, Edward L., Jr. (See Schultz and McManus.)
- McManus, William F., Shawnee, Okla. Holder for lighted cigars. No. 1,132,201; Mar. 16; Gaz. vol. 212; p. 895.
- McMasters, James A., Kittanning, Pa. Combined hoisting-jack and stand. No. 1,160,629; Nov. 16; Gaz. vol. 220; p. 867.
- McMath, John E. (See Townsend, Frank B., assignor.)
- McMeans, William L. (See Bosler and McMeans.)
- McMeen & Miller. (See Deakin, Gerald, assignor.)
- McMichael, Ernest W. H., Waltham Cross, England. Pump or compressor. No. 1,148,033; July 27; Gaz. vol. 216; p. 1138.
- McMichael, John H., Toledo, Ohio, assignor to Concrete Mixing and Conveying Company, Chicago, Ill. Method of and apparatus for transporting and treating concrete. No. 1,127,660; Feb. 9; Gaz. vol. 211; p. 386.
- McMillan, Archibald S., and J. F. Curdie, St. Louis, Mo. Shipping-shoe for automobile-wheels and the like. No. 1,139,988; May 18; Gaz. vol. 214; p. 871.
- McMillan, Bertha L. (See Tilden, Josephine E., assignor.)
- McMillan, Ernest J., Moose Jaw, Saskatchewan, Canada. Wind-deflector and lookout. No. 1,164,374; Dec. 14; Gaz. vol. 221; p. 619.
- McMillan, Hugh P., Baltimore, Md. Joint-fastener. No. 1,124,935; Jan. 12; Gaz. vol. 210; p. 652.
- McMillan, John L., Syracuse, N. Y. Loose-leaf binder. No. 1,126,811; Feb. 2; Gaz. vol. 211; p. 52.
- McMillan, Levi, Wilmington, N. C. Addressing-machine. No. 1,150,784; Aug. 17; Gaz. vol. 217; p. 980.
- McMillan, Newton W., Gustine, Tex. Buggy-shafts. No. 1,126,242; Jan. 26; Gaz. vol. 210; p. 1190.
- McMillan, Preston A., Eau Gallie, Fla. Rail-fastener. No. 1,145,780; July 6; Gaz. vol. 216; p. 282.
- McMillan, Thomas B., Toro, La. Wire-stretcher. No. 1,133,487; Mar. 30; Gaz. vol. 212; p. 1445.
- McMillan, Walter J. (See Widman, Frank J., assignor.)
- McMillen, George A., Alton, Ill. Hernal truss. No. 1,158,383; Oct. 26; Gaz. vol. 219; p. 1188.
- McMillen, Robert, Pittsburgh, Pa. Quick-acting wrench. No. 1,163,428; Dec. 7; Gaz. vol. 221; p. 243.
- McMillin, Clifford K., Bellingham, Wash. Support for automobile-beds. No. 1,136,885; Apr. 20; Gaz. vol. 213; p. 1075.
- McMillion, James W., Mattewan, W. Va. Circuit-breaker. No. 1,165,192; Dec. 21; Gaz. vol. 221; p. 946.
- McMonies, Frederick J., J. J. and L. H. Hamley, Pendleton, Oreg. Metal cinch rigging-ring. No. 1,140,179; May 18; Gaz. vol. 214; p. 939.
- McMullan, Robert, Fremantle, Western Australia, Australia. Windmill. No. 1,157,563; Oct. 19; Gaz. vol. 219; p. 837.
- McMullen, Charles C. (See Hamilton and McMullen.)
- McMullen, Charles P., Lyndhurst, N. J., assignor of one-fourth to G. S. Helmken, Richmond Hill, N. Y. Elastic or cushioned wheel. No. 1,127,790; Feb. 9; Gaz. vol. 211; p. 435.
- McMullen, Frederick L., Norfolk, Va. Garment. No. 1,135,459; Apr. 13; Gaz. vol. 213; p. 530.
- McMullen, George B. (See McMullen, George W. and G. B.)

Alphabetical list of patentees—Continued.

- McMullen, George W. and G. B., Picton, Ontario, Canada. Drying lumber and product thereof. No. 1,125,862; Jan. 19; Gaz. vol. 210; p. 1017.
- McMullen, John, Butte, Mont. Antiskidding and traction appliance for vehicle-wheels. No. 1,154,525; Sept. 21; Gaz. vol. 218; p. 829.
- McMullen, John F. P., Wakefield, Kans. Cooking-cabinet. No. 1,143,420; June 15; Gaz. vol. 215; p. 895.
- McMullen, Roger B., Evanston, assignor of one-half to P. J. O'Keefe, Chicago, Ill. Metal wheel construction. No. 1,161,491; Nov. 23; Gaz. vol. 220; p. 1218.
- McMullen, Vincent E., assignor to Field-Brundage Co., Jackson, Mich. Speed-changing device for engines. No. 1,144,909; June 29; Gaz. vol. 215; p. 1462.
- McMullin, William E., Minneapolis, Minn. Ventilator for cars. No. 1,142,110; June 8; Gaz. vol. 215; p. 397.
- McMurray, John H., Schenectady, assignor of one-half to J. T. Gorman, Cohoes, N. Y. Gas-cock. No. 1,139,208; May 11; Gaz. vol. 214; p. 562.
- McMurray, John R. (See Reagan and McMurray.)
- McMurtree, Adnah, New York, N. Y., and L. H. Church, Stamford, Conn., assignors to Thomas & Betts Company, New York, N. Y. Electrical-conduit attachment. No. 1,128,106; Feb. 9; Gaz. vol. 211; p. 546.
- McMurtry, Alden L., Sound Beach, Conn. Ignition-generator for electric starter systems. No. 1,129,216; Feb. 23; Gaz. vol. 211; p. 1017.
- McMurtry, Alden L., Sound Beach, Conn. Pneumatic starter for motor-vehicles. No. 1,133,488; Mar. 30; Gaz. vol. 212; p. 1445.
- McMurtry, Alden L., Sound Beach, Conn., assignor, by mesne assignments, to Lovell-McConnell Manufacturing Company, Duplex-diaphragm horn or signal. No. 1,148,916; Aug. 3; Gaz. vol. 217; p. 153.
- McMyler Interstate Company, The. (See Fickinger, Presly J., assignor.)
- McMyler Interstate Company. (See Jones, Milton D., assignor.)
- McMyler Interstate Company, The. (See Lovell, Frederick W., assignor.)
- McMyler Interstate Company, The. (See McMyler, John, assignor.)
- McMyler, John, Cleveland, assignor to The McMyler Interstate Company, Bedford, Ohio. Hoisting and conveying apparatus. No. 1,128,806; Feb. 16; Gaz. vol. 211; p. 837.
- McNab, Alexander, assignor to The McNab Company, Bridgeport, Conn. Boiler-circulator. No. 1,155,832; Oct. 5; Gaz. vol. 219; p. 178.
- McNab Company, The. (See McNab, Alexander, assignor.)
- McNabb, Sherman, Prague, Okla. Combined automobile-jack and tire-pump. No. 1,147,110; July 20; Gaz. vol. 216; p. 787.
- McNabb, William F., Pittsburgh, Pa. Heat-producing compound. No. 1,143,295; June 15; Gaz. vol. 215; p. 852.
- McNabb, William F., and R. S. Wile, Pittsburgh, Pa.; said Wile assignor to said McNabb. Heat-producing compound. No. 1,126,055; Jan. 26; Gaz. vol. 210; p. 1120.
- McNair, Henry H., St. Paul, Minn. Card game. No. 1,138,678; May 11; Gaz. vol. 214; p. 873.
- McNair, Robert H. (See Harris, Donner, and McNair.)
- McNallen, Albert J., Gore, Ohio. Packer for oil-well pumps. No. 1,164,655; Dec. 21; Gaz. vol. 221; p. 757.
- McNailey, Alfred H., New York, assignor, by mesne assignments to M. Canzen, Brooklyn, N. Y. Heel-breast-scouring machine. No. 1,160,099; Nov. 9; Gaz. vol. 220; p. 626.
- McNally, Aloysius. (See Allen and McNally.)
- McNally, Charles S., Philadelphia, Pa. Attachment for talking-machines. No. 1,128,021; Feb. 9; Gaz. vol. 211; p. 517.
- McNamar, Oliver E., *et al.* (See Jack, Lewis T., assignor.)
- McNamar, Raymond, *et al.* (See Jack, Lewis T., assignor.)
- McNamara, J. E., *et al.* (See Erickson, John E., assignor.)
- McNamara, John F., Danbury, Conn. Toy bowling game. No. 1,133,810; Mar. 30; Gaz. vol. 212; p. 1563.
- McNamara, Thomas J. (See McCarty, Eugene J., assignor.)
- McNaught, Harry W., Indianapolis, Ind. Railway safety system. No. 1,134,278; Apr. 6; Gaz. vol. 213; p. 71.
- McNaull, William D., Toledo, Ohio. Tire. No. 1,147,032; July 20; Gaz. vol. 216; p. 761.
- McNeal, Charles A., Columbus, Ohio. Illuminated sign. No. 1,135,308; Apr. 13; Gaz. vol. 213; p. 478.
- McNear, Fred W., Menlo Park, and P. E. Bowles, Jr., Reward, Cal. Dehydrating oil. No. 1,158,253; Oct. 26; Gaz. vol. 219; p. 1141.
- McNee, George G. (See Allender and McNee.)
- McNeece, Irvin, St. Louis, Mo. Automobile-lock. No. 1,134,054; Mar. 30; Gaz. vol. 212; p. 1644.
- McNeel, William P., San Antonio, Tex. Case for motion-picture films. No. 1,155,940; Oct. 5; Gaz. vol. 219; p. 213.
- McNeil, Chester, assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,140,753; May 25; Gaz. vol. 214; p. 1173.
- McNeil, Chester, assignor, to Union Special Machine Company, Chicago, Ill. Cutting mechanism. No. 1,143,421; June 15; Gaz. vol. 215; p. 896.
- McNeil, Daniel W., East Norwood, Ohio, assignor to The John Douglas Company. Apparatus for molding clay or similar material. No. 1,142,341; June 8; Gaz. vol. 215; p. 478.
- McNeil, Daniel W., Norwood, Ohio, assignor to The John Douglas Company. Molding clay or similar material. No. 1,142,342; June 8; Gaz. vol. 215; p. 478.
- McNeil, Daniel W., assignor to The John Douglas Company, Cincinnati, Ohio. Supply-valve. No. 1,150,216; Aug. 17; Gaz. vol. 217; p. 783.
- McNeil, Daniel W., assignor to The John Douglas Company, Cincinnati, Ohio. Drinking-fountain. No. 1,166,428; Dec. 28; Gaz. vol. 221; p. 1066.
- McNeil, George C., assignor of one-half to E. C. Massey, Ethridge, Tenn. Brake mechanism. No. 1,134,474; Apr. 6; Gaz. vol. 213; p. 143.
- McNeil, Henry W., Sinton, Tex. Gearing. No. 1,157,167; Oct. 19; Gaz. vol. 219; p. 699.
- McNeil, James E., Los Angeles, Cal. Rail-anchor. No. 1,165,193; Dec. 21; Gaz. vol. 221; p. 946.
- McNeill, Albert R., and M. B. Parrish, Philadelphia, Pa. Detachable handle for household and other articles. No. 1,147,332; July 20; Gaz. vol. 216; p. 863.
- McNeill, Howard R., Easton, Pa. Machine for tonguing and grooving staves. No. 1,158,949; Nov. 2; Gaz. vol. 220; p. 188.
- McNeill, Jack P., *et al.* (See Rodecker, Charles W., assignor.)
- McNeill, Thomas G., Ludlow, Cal. Railway-track. No. 1,126,538; Jan. 26; Gaz. vol. 210; p. 1297.
- McNerney, Peter J., North St. Paul, Minn. Turbine. No. 1,150,048; Aug. 17; Gaz. vol. 217; p. 723.
- McNew, William F. (See Heedwell and McNew.)
- McNish, Andrew, New Suffolk, N. Y. Trimmer. No. 1,154,789; Sept. 28; Gaz. vol. 218; p. 949.
- McNoon, James J., assignor of one-half to C. C. Heminger, Bowling Green, Ky. Acetylene-gas generator. No. 1,144,044; June 22; Gaz. vol. 215; p. 1135.
- McNulta, Herbert, Chicago, Ill., assignor, by mesne assignments, to Rateau Steam Regenerator Company, New York, N. Y. Steam-regenerator. No. 1,129,217; Feb. 23; Gaz. vol. 211; p. 1018.
- McNulty, Frank T., *et al.* (See Wine, Noah L., assignor.)
- McNulty, James A., Kansas City, Mo. Nailless grain-door for railway-cars. No. 1,143,219; June 15; Gaz. vol. 215; p. 826.
- McNutt, William H., New York, assignor to C. E. Owen, Franklin, N. Y. Wrench. No. 1,142,111; June 8; Gaz. vol. 215; p. 398.
- McNutt, William H., New York, assignor to C. E. Owen, Franklin, N. Y. Safety-bung. No. 1,142,902; June 15; Gaz. vol. 215; p. 712.
- McPhail, George D., Boston, Mass. Lamp. No. 1,139,691; May 18; Gaz. vol. 214; p. 766.
- McPhail, James, assignor of one-half to W. C. Holzworth, Lowellville, Ohio. Gas-cleaner. No. 1,164,949; Dec. 21; Gaz. vol. 221; p. 860.
- McPhee, Herbert. (See Domann and McPhee.)
- McPhee, William F. (See Burke and McPhee.)
- McPherson, Alexander, New Glasgow, Nova Scotia, Canada. Door-hanger. No. 1,156,419; Oct. 12; Gaz. vol. 219; p. 406.
- McPherson, Clive, *et al.* (See McKinnon and Brouff, assignors.)
- McPherson, Frank G., assignor to Shado-Lite Manufacturing Co., Inc., Beaver Falls, Pa. Lighting means for motion-picture auditoriums. No. 1,124,635; Jan. 12; Gaz. vol. 210; p. 547.
- McPherson, Patty, Boerne, Tex. Slicer. No. 1,128,479; Feb. 16; Gaz. vol. 211; p. 725.
- McPherson, Samuel E., assignor of one-half to H. L. Young, Cherokee, Okla. Harvester. No. 1,136,151; Apr. 20; Gaz. vol. 213; p. 814.
- McPherson, Sylvester E., Chattanooga, Tenn. Roller window-screen. No. 1,143,718; June 22; Gaz. vol. 215; p. 1021.
- McQuaide, Arthur J., Canton, Ohio. Signal. No. 1,158,950; Nov. 2; Gaz. vol. 220; p. 189.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company. Calling device. No. 1,148,787; Aug. 3; Gaz. vol. 217; p. 110.
- McQuay-Norris Manufacturing Company. (See Campbell, Edward B., assignor.)
- McQueen, Charley, San Antonio, assignor of one-half to A. H. Jackson, Gonzales, Tex. Weight-motor. No. 1,136,251; Apr. 20; Gaz. vol. 213; p. 849.
- McQueen, Glenn R., Baldwin City, Kans. Automatic train-stopping apparatus. No. 1,133,987; Mar. 30; Gaz. vol. 212; p. 1620.
- McQueen, Henry B. (See Flint, Newton J., assignor.)
- McQueen, James W., Detroit, Mich. Driving mechanism. No. 1,126,812; Feb. 2; Gaz. vol. 211; p. 52.
- McQueen, Joshua F., *et al.* (See Morley, Joseph, assignor.)
- McQueen, Ulysses G., New Rochelle, N. Y. Sash-pulley. No. 1,129,999; Mar. 2; Gaz. vol. 212; p. 56.
- McQueen, Ulysses G., New Rochelle, N. Y. Sash-pulley and window-frame. No. 1,130,000; Mar. 2; Gaz. vol. 212; p. 56.
- McQueen, Ulysses G., assignor to Grant Pulley & Hardware Co., New York, N. Y. Sash-pulley. No. 1,129,998; Mar. 2; Gaz. vol. 212; p. 56.

- McQueen, William. (See Thomas and McQueen.)
- McQuillin, Howard, assignor of one-half to W. H. Dugan, Chicago, Ill. Dynamo-electric machine. No. 1,157,024; Oct. 19; Gaz. vol. 219; p. 648.
- McQuown, John S., Forest, Ohio. Freight-car attachment. No. 1,126,243; Jan. 26; Gaz. vol. 210; p. 1190.
- McRae, Finlay A., Montreal, Quebec, Canada. Railway appliance. No. 1,139,551; May 18; Gaz. vol. 214; p. 717.
- McRae, Samuel, and J. H. Blom, assignors to The Centrifugal Aeroplane Company, Everett, Wash. Circle-swing. No. 1,124,770; Jan. 12; Gaz. vol. 210; p. 595.
- McRae, William A. R. M., assignor of one-half to N. Malcolmson, London, England. Production of half-stuff paper-pulp or paper. No. 1,151,490; Aug. 24; Gaz. vol. 217; p. 1278.
- McRaven, John, Little Rock, Ark. Type-writer. No. 1,139,880; May 18; Gaz. vol. 214; p. 833.
- McRaven, John, Little Rock, Ark. Type-writer. No. 1,143,771; June 22; Gaz. vol. 215; p. 1039.
- McSheehy, Bartholomew E. (See Africa and McSheehy.)
- McSheehy, Bartholomew E., Nutley, N. J., assignor to J. C. Blair Company, Huntington, Pa. Sorting and filing case. No. 1,130,096; Mar. 2; Gaz. vol. 212; p. 88.
- McTaggart, James A. (See Button and McTaggart.)
- McTavish, John J., Jr., Detroit, Mich. Rotary gas-engine. No. 1,124,494; Jan. 12; Gaz. vol. 210; p. 496.
- McTavish, Robert A. (See Martin and McTavish.)
- McVey, Ambrose, Wilmington, Del. Switch-shifter. No. 1,154,526; Sept. 21; Gaz. vol. 218; p. 830.
- McVey, Samuel J., Belleville, W. Va. Apple coring and slicing machine. No. 1,146,085; July 13; Gaz. vol. 216; p. 409.
- McVicker, Matthew, Scranton, Pa. Combined ladder and scaffold. No. 1,126,539; Jan. 26; Gaz. vol. 210; p. 1297.
- McVicker, E. M. (See Ashby, Leonard W., assignor.)
- McVicker, Walter J., Minneapolis, Minn. Internal-combustion engine. No. 1,146,435; July 13; Gaz. vol. 216; p. 531.
- McWatters, Lulu, Gilman, Iowa. Corn-planter. No. 1,126,647; Jan. 26; Gaz. vol. 210; p. 1336.
- McWatters, Thomas, Chestnut Ridge, Pa. Safety device for elevator-cages. No. 1,165,010; Dec. 21; Gaz. vol. 221; p. 881.
- McWeeny, Thomas. (See North, Minning, and McWeeny.)
- McWhirter, John S., New York, N. Y. Brake-operating mechanism. No. 1,163,675; Dec. 14; Gaz. vol. 221; p. 373.
- McWhirter, John S., New York, N. Y. Automatic tripping mechanism for car-fenders. No. 1,163,764; Dec. 14; Gaz. vol. 221; p. 406.
- McWhorter, Allen, assignor to McWhorter Manufacturing Company, Riverton, N. J. Fertilizer-distributor. No. 1,134,688; Apr. 6; Gaz. vol. 213; p. 221.
- McWhorter Manufacturing Company. (See McWhorter, Allen, assignor.)
- McWhorter, Robert, *et al.* (See Chapman, Frank M., assignor.)
- McWilliams, Arthur C., Chicago, Ill. Metering panel-board. No. 1,137,413; Apr. 27; Gaz. vol. 213; p. 1305.
- McWilliams, Arthur C., Chicago, Ill. Electric-lamp fixture. No. 1,145,382; July 6; Gaz. vol. 216; p. 142.
- McWilliams, Arthur C., Chicago, Ill. Electric-lamp fixture. No. 1,145,383; July 6; Gaz. vol. 216; p. 142.
- McWilliams, Arthur C., South Bend, Ind. Cut-out pulley. No. 1,157,239; Oct. 19; Gaz. vol. 219; p. 725.
- McWilliams, Arthur C., assignor to George Cutter Company, South Bend, Ind. Terminal box. No. 1,148,699; Aug. 3; Gaz. vol. 217; p. 77.
- MeVay, James C. F., Atlantic City, N. J. Non-glare device for the eyes. No. 1,164,375; Dec. 14; Gaz. vol. 221; p. 619.
- Meacham, Benjamin E., Lorain, Ohio. Automatic gas-oven. No. 1,162,297; Nov. 30; Gaz. vol. 220; p. 1545.
- Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Burner for water-heaters. No. 1,143,057; June 15; Gaz. vol. 215; p. 767.
- Mead, Carl F. (See Mead and Guentzler, assignors.)
- Mead, Carl F., Cleveland, Ohio. Signaling system. No. 1,164,737; Dec. 21; Gaz. vol. 221; p. 785.
- Mead, Carl F., and L. E. Richmond, assignors to The Mead Electric Signal Company, Cleveland, Ohio. Electric bell. No. 1,145,253; July 6; Gaz. vol. 216; p. 98.
- Mead, Cyrus E., assignor to The Mead Engine Company, Dayton, Ohio. Driving mechanism for rotary valves. No. 1,130,753; Mar. 9; Gaz. vol. 212; p. 352.
- Mead, Cyrus E., assignor to The Mead Engine Company, Dayton, Ohio. Rotary valve for explosive-engines. No. 1,134,693; Apr. 6; Gaz. vol. 213; p. 222.
- Mead, Cyrus E., assignor to Mead Engine Company, Dayton, Ohio. Explosive-engine. No. 1,154,647; Sept. 28; Gaz. vol. 218; p. 902.
- Mead Electric Signal Company, The. (See Mead and Richmond, assignors.)
- Mead, Ellis H., Western Springs, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Hand-truck. No. 1,135,603; Apr. 13; Gaz. vol. 213; p. 582.
- Mead Engine Company, The. (See Mead, Cyrus E., assignor.)
- Mead, George A., and W. H. Kempton, assignors to The Ohio Brass Company, Mansfield, Ohio. Steady-brace for trolley-lines. No. 1,138,773; May 11; Gaz. vol. 214; p. 407.
- Mead, Henry B., and H. F. Guentzler, assignors to C. F. Mead, Cleveland, Ohio. Signaling system. No. 1,132,106; Mar. 16; Gaz. vol. 212; p. 860.
- Mead, James S., Cincinnati, Ohio. Collar, cuff, and shirt button. No. 1,148,112; July 27; Gaz. vol. 216; p. 1168.
- Mead, Lawrence J. (See Klein and Mead.)
- Mead, Marvin H., Passaic, N. J. Net for collecting specimens. No. 1,143,721; June 22; Gaz. vol. 215; p. 1022.
- Mead-Morrison Manufacturing Co. (See Colley, Elbridge S., assignor.)
- Mead-Morrison Manufacturing Company. (See Williamson, Charles S., assignor.)
- Mead-Suydam Company. (See Wilson, Robert G., assignor.)
- Mead, Winthrop L. (See Du Bois and Mead.)
- Meade, James, Stoughton, Mass. Coating apparatus. No. 1,154,874; Sept. 28; Gaz. vol. 218; p. 976.
- Meade, James, Stoughton, Mass. Coating fabrics. No. 1,154,875; Sept. 28; Gaz. vol. 218; p. 977.
- Meade, James, assignor to Plymouth Rubber Company, Stoughton, Mass. Machine for treating adhesive coated fabric. No. 1,137,511; Apr. 27; Gaz. vol. 213; p. 1338.
- Meador, Henry J., Utica, N. Y. Refining-engine. No. 1,125,583; Jan. 19; Gaz. vol. 210; p. 913.
- Meador, Henry J., Utica, N. Y. Beater. No. 1,134,344; Apr. 6; Gaz. vol. 213; p. 95.
- Meador, Tandy, Westmoreland, Tenn. Automatic stove-damper. No. 1,143,422; June 15; Gaz. vol. 215; p. 897.
- Meadors, F. R. (See Bowland, Frank Y., assignor.)
- Meadows, Etta H., Mabscott, W. Va. Seal. No. 1,147,529; July 20; Gaz. vol. 216; p. 934.
- Meadows, Harvey H., Berwick, Ill. Floor-clamp. No. 1,145,160; July 6; Gaz. vol. 216; p. 65.
- Meadows, Robert C., Poors Knob, N. C. Corn-mill. No. 1,133,993; Mar. 30; Gaz. vol. 212; p. 1622.
- Meahl, Philip J., Summit, N. J. Machine for making master-sheets. No. 1,156,701; Oct. 12; Gaz. vol. 219; p. 505.
- Meaker Company, The. (See Miller, Constantine G., assignor.)
- Meaker, John W., Detroit, Mich. Forming polygonal bores. No. 1,144,425; June 29; Gaz. vol. 215; p. 1297.
- Meaker, John W., Detroit, Mich. Spark-plug construction. No. 1,149,388; Aug. 10; Gaz. vol. 217; p. 425.
- Meaker, John W., Detroit, Mich. Spark-plug. No. 1,156,796; Oct. 12; Gaz. vol. 219; p. 536.
- Meaker, John W., Detroit, Mich. Spark-plug. No. 1,156,797; Oct. 12; Gaz. vol. 219; p. 536.
- Meaker, John W., Detroit, Mich. Nut. No. 1,156,798; Oct. 12; Gaz. vol. 219; p. 537.
- Meaker, John W., Detroit, Mich., Spark-plug. No. 1,156,799; Oct. 12; Gaz. vol. 219; p. 537.
- Meakin, Edgar T., Berkeley, Cal. Fruit-crushing device. No. 1,128,026; Feb. 9; Gaz. vol. 211; p. 519.
- Meakin, Edgar T., Oakland, Cal. Press. No. 1,135,309; Apr. 13; Gaz. vol. 213; p. 478.
- Meakin, George C., New York, N. Y. Toe or heel plate for shoes. No. 1,155,258; Sept. 28; Gaz. vol. 218; p. 1108.
- Means, Warren M., and N. C. Celmo, Putneyville, Pa. Lock for switch-arms. No. 1,142,830; June 15; Gaz. vol. 215; p. 686.
- Mearkle, Louis K., Philadelphia, assignor to Duquesne Sales Company, Pittsburgh, Pa. Collapsible drinking-cup. No. 1,133,050; Mar. 23; Gaz. vol. 212; p. 1256.
- Mears, Arthur M., Portland, Oreg. Shackle for pulley-blocks. No. 1,158,385; Oct. 26; Gaz. vol. 219; p. 1188.
- Mears, Charles W., and B. B. West, Cleveland, Ohio; said West assignor to said Mears. Machine for stitching books. No. 1,152,534; Sept. 7; Gaz. vol. 218; p. 58.
- Mears, Robert S., Arkansas City, Kans. Water-glass guard. No. 1,132,372; Mar. 16; Gaz. vol. 212; p. 958.
- Mears, William N., Brookline, assignor to American Rotary Motor Company, Boston, Mass. Rotary engine. No. 1,145,161; July 6; Gaz. vol. 216; p. 65.
- Mears, William N., Brookline, assignor to American Rotary Motor Company, Boston, Mass. Rotary engine. No. 1,152,535; Sept. 7; Gaz. vol. 218; p. 58.
- Mease, Monsey E., Sandy Level, Va. Saddle-bag. No. 1,136,691; Apr. 20; Gaz. vol. 213; p. 1006.
- Meashev, Harry S., Middletown, Pa. Swinging stacker for threshing-machines. No. 1,159,405; Nov. 9; Gaz. vol. 220; p. 379.
- Mebane Bedding Company, The. (See Holt, William A., assignor.)
- Mecartea, Francis M., San Juan Bautista, assignor of one-fourth to M. L. Lawrence, Los Gatos, Cal. Violin. No. 1,140,697; May 25; Gaz. vol. 214; p. 1153.
- Meccano Limited. (See Hornby, Frank, assignor.)
- Mecco, Canio, assignor of one-fourth to B. Ruggiero, one-fourth to N. Cosezza, and one-fourth to G. Disimoni, Brooklyn, N. Y. Bug-trap for beds. No. 1,132,789; Mar. 23; Gaz. vol. 212; p. 1160.
- Mechanical Appliance Company, The. (See Reinhard, Louis, assignor.)
- Mechanical Development Company, The. (See Rackstraw, Albert V., assignor.)

Alphabetical list of patentees—Continued.

- Mechanical Novelty and Manufacturing Co. (See Blum and Kruse, assignors.)
 Mechanical Products Company, The. (See Leshner, Earl W., assignor.)
 Mechanical Refrigerator Company, The. (See Wolf, Fred W., assignor.)
 Mechanics' Machine Co. (See Swenson, Carl E., assignor.)
 Mechanics' Machine Company. (See Swenson and Faust, assignors.)
 Mechanics' Specialties Co. (See Golly, Louis, assignor.)
 Mechanic's Stationary Stage Company. (See Narron, John W., assignor.)
 Mechling, Benjamin F., Jr., assignor to Albro-Clem Elevator Company, Philadelphia, Pa. Elevator driving mechanism. No. 1,149,206; Aug. 10; Gaz. vol. 217; p. 358.
 Mecking, Herman, New York, N. Y. Ash-cart. No. 1,139,307; May 11; Gaz. vol. 214; p. 593.
 Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Vaulting-standard. No. 1,128,705; Feb. 16; Gaz. vol. 211; p. 802.
 Meder, Charles. (See Struett, Charles, assignor.)
 Medhurst, Arthur W., assignor to Anderson Electric Car Company, Detroit, Mich. Motor-vehicle frame. No. 1,128,802; Feb. 16; Gaz. vol. 211; p. 835.
 Medina, Eulalio, Douglas, Ariz. Water-jacket. No. 1,143,642; June 22; Gaz. vol. 215; p. 996.
 Medley, Robert, Manchester, England. Foldable-hood fittings of vehicles. No. 1,154,527; Sept. 21; Gaz. vol. 218; p. 830.
 Medlock, Carl B. B., Mortons Gap, Ky. Barrel-cover latch. No. 1,144,489; June 29; Gaz. vol. 215; p. 1318.
 Medock, Charles. (See Pany, Ferdinand, assignor.)
 Medved, Paul, Milwaukee, Wis. Device for utilizing wind-power. No. 1,132,956; Mar. 23; Gaz. vol. 212; p. 1221.
 Meecham, William E., Winnipeg, Manitoba, Canada. Road-vehicle. No. 1,135,461; Apr. 13; Gaz. vol. 213; p. 531.
 Meehan, Patrick A., Brooklyn, N. Y. Safe. No. 1,164,951; Dec. 21; Gaz. vol. 221; p. 861.
 Meek, William V., Oxford, Kans. Harrow attachment. No. 1,124,317; Jan. 12; Gaz. vol. 210; p. 431.
 Meeker, David, et al. (See Chrisco, Israel M., assignor.)
 Meeker, William B., assignor to The Automatic Lamp Control Company, Dayton, Ohio. Lamp. No. 1,164,738; Dec. 21; Gaz. vol. 221; p. 786.
 Meeks, Anna J., Jennings, La. Rice-header. No. 1,128,172; Feb. 9; Gaz. vol. 211; p. 569.
 Meeks, Manning, Cedar Rapids, Iowa. Hose-coupling. No. 1,157,997; Oct. 26; Gaz. vol. 219; p. 1051.
 Meer, Gustav ter, Hanover, Germany. Centrifugal machine. No. 1,160,635; Nov. 16; Gaz. vol. 220; p. 869.
 Meerhoff, Henry L., et al. (See Liberato, Nicola, assignor.)
 Meese, William A., et al. (See Fanning, Charles E., assignor.)
 Megahan, Oliver P., Westerville, Ohio. Insulator-support. No. 1,123,342; Jan. 5; Gaz. vol. 210; p. 51.
 Megargel, Arthur A., Chicopee, Mass. Lantern-fastener. No. 1,162,633; Nov. 30; Gaz. vol. 220; p. 1656.
 Megill, William S. C., National Home, Wis. Cuspidor. No. 1,125,909; Jan. 19; Gaz. vol. 210; p. 1035.
 Megill, William S. C., National Home, Wis. Folding hanger. No. 1,163,101; Dec. 7; Gaz. vol. 221; p. 127.
 Meglemre, John E., Lincoln, Nebr. Mechanical movement. No. 1,149,389; Aug. 10; Gaz. vol. 217; p. 425.
 Megosin Company. (See Menden, William S., assignor.)
 Megrath, Estate of William A. (See Kendall, Edward D., assignor.)
 Megrath, William A. (See Liebmann and Megrath.)
 Megredy, John T. (See Edwards, Harry C., assignor.)
 Megredy, John T. (See Edwards and Megredy.)
 Meguiar, Charles W., Sonora, Ky. Combination resilient clip and article-holder. No. 1,154,528; Sept. 21; Gaz. vol. 218; p. 830.
 Mehle, Frank E., et al. (See Varner, Edward, assignor.)
 Mehlfelder, Anton, assignor, by mesne assignments, to H. Reher, New York, N. Y. Intermittent mechanical movement. No. 1,160,928; Nov. 16; Gaz. vol. 220; p. 972.
 Mehlfelder, Anton, assignor, by mesne assignments, to H. Reher, New York, N. Y. Mechanism for intermittent motion. No. 1,164,377; Dec. 14; Gaz. vol. 221; p. 620.
 Mehlh, Charles, Fort Lee, N. J. Piano. No. 1,164,005; Dec. 14; Gaz. vol. 221; p. 490.
 Mehlum, Casper, Cambridge, Mass. Machine for making hard sheet-fiber. No. 1,124,937; Jan. 12; Gaz. vol. 210; p. 653.
 Meum, Charles A., and C. E. Tite, Wilkes Barre, Pa. Music-holder. No. 1,133,490; Mar. 30; Gaz. vol. 212; p. 1446.
 Meier, Albert H., Evansville, Ind. Pipe-bending device. No. 1,136,252; Apr. 20; Gaz. vol. 213; p. 850.
 Meier, Albert J., Glendale, Mo. Purse. No. 1,138,882; May 11; Gaz. vol. 214; p. 447.
 Meier, Albert J., Glendale, W. L. Swift, and E. L. Reller, assignors to The Duco Adding Machine Company, St. Louis, Mo. Paper-feed and platen-operating mechanism for calculating-machines. No. 1,134,694; Apr. 6; Gaz. vol. 213; p. 223.
 Meier, Albert J., Glendale, W. L. Swift and E. L. Reller, assignors to The Duco Adding Machine Company, St. Louis, Mo. Clearing and transfer mechanism for calculating-machines. No. 1,160,742; Nov. 16; Gaz. vol. 220; p. 908.
 Meier, August. (See Herzog and Meier.)
 Meier, E. J. H. (See Rossy, Charles J., assignor.)
 Meier, Earl C., et al. (See Perkins, Thomas G., assignor.)
 Meier, Edward C. (See Cline and Meier.)
 Meier, Edward C., Phoenixville, Pa. Header. No. 1,154,194; Sept. 21; Gaz. vol. 218; p. 715.
 Meier, Edward C., Phoenixville, Pa. Reaming-tool. No. 1,158,825; Nov. 2; Gaz. vol. 220; p. 147.
 Meier, Edward C., Phoenixville, Pa. Steam-boiler. No. 1,159,783; Nov. 9; Gaz. vol. 220; p. 515.
 Meier, Edward C., Phoenixville, Pa. Furnace-tile. No. 1,164,952; Dec. 21; Gaz. vol. 221; p. 861.
 Meier, Ernst, Neubeckum, Germany. Valve for automatically stopping the supply of liquid to pipes upon breaking of the latter. No. 1,153,350; Sept. 14; Gaz. vol. 218; p. 565.
 Meier, Fred H., Teague, Tex. Pump. No. 1,144,718; June 29; Gaz. vol. 215; p. 1397.
 Meier, John, Dallas, Tex. Picking and separating cotton from bolls. No. 1,146,013; July 13; Gaz. vol. 216; p. 384.
 Meier, John, Dallas, Tex., assignor of one-twentieth to F. Richard and one-twentieth to F. Peyrot, Chicago, Ill. Suction-cup for cotton-picking machines. No. 1,127,482; Feb. 9; Gaz. vol. 211; p. 328.
 Meier, John, Dallas, Tex., assignor of one-twentieth to F. Richard and one-twentieth to F. Peyrot, Chicago, Ill. Cotton-picking machine. No. 1,135,202; Apr. 13; Gaz. vol. 213; p. 442.
 Meier, Joseph, et al. (See Carl, Louis M., assignor.)
 Meier, Martin J. (See Crandall, Max E., assignor.)
 Meigs, John F., and H. G. Jakobson, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Training and elevating mechanism for guns. No. 1,156,541; Oct. 12; Gaz. vol. 219; p. 448.
 Meikle, Roy V., Turlock, Cal. Automatic gate for irrigation-canals. No. 1,130,097; Mar. 2; Gaz. vol. 212; p. 89.
 Meilicke, Carl A., Chicago, Ill. Calculator. No. 1,140,838; May 25; Gaz. vol. 214; p. 1202.
 Meilicke, Carl A., Chicago, Ill. Movable-reading-lens holder. No. 1,149,383; Aug. 10; Gaz. vol. 217; p. 423.
 Meilicke, Carl A., Chicago, Ill. Card-index. No. 1,149,384; Aug. 10; Gaz. vol. 217; p. 423.
 Meiluk, Walter J., assignor of one-half to H. A. Budrowski, Hamilton, Ontario, Canada. Reciprocating fluid-motor. No. 1,147,963; July 27; Gaz. vol. 216; p. 1112.
 Meinecke, Christian W., Jersey City, N. J., assignor to Whitall Tatum Company, New York, N. Y. Irrigator-reservoir. No. 1,127,483; Feb. 9; Gaz. vol. 211; p. 328.
 Meinecke, Christian W., Jersey City, N. J., assignor to Meinecke & Company, New York, N. Y. Combined water bottle and beater for fountain-syringes. No. 1,161,401; Nov. 23; Gaz. vol. 220; p. 1188.
 Meinecke, Christian W., East Orange, N. J., assignor to Meinecke & Company, New York, N. Y. Non-slipping bed-rest for invalids. No. 1,151,894; Aug. 31; Gaz. vol. 217; p. 1466.
 Meinecke & Company. (See Meinecke, Christian W., assignor.)
 Meiners, Rudolph F., Boonton, N. J. Emergency running-gear for vehicles. No. 1,163,354; Dec. 7; Gaz. vol. 221; p. 217.
 Meinhardt, Frederick A. B. (See Well, Hugo C., assignor.)
 Meininger, Joseph H., Strasburg, Ohio. Fire-clay feeder. No. 1,137,650; Apr. 27; Gaz. vol. 213; p. 1383.
 Meink, Wilhelm L., Portsmouth, Iowa. End-gate. No. 1,131,404; Mar. 9; Gaz. vol. 212; p. 576.
 Melrowsky, Max, Cologne-Lindenthal, Germany. Manufacturing stratified fibrous materials. No. 1,124,777; Jan. 12; Gaz. vol. 210; p. 597.
 Melrowsky, Max, Porz, Germany. Making mica plates. No. 1,163,434; Dec. 7; Gaz. vol. 221; p. 245.
 Meisel, Francis, assignor to Meisel Press & Manufacturing Company, Boston, Mass. Printing-machine. No. 1,144,944; June 29; Gaz. vol. 215; p. 1473.
 Meisel Press & Manufacturing Company. (See Meisel, Francis, assignor.)
 Meiselbach, August D., assignor to Handy Bicycle Company, Chicago, Ill. Bicycle attachment. No. 1,155,324; Sept. 28; Gaz. vol. 218; p. 1130.
 Meiser, Thomas J., Des Moines, Iowa. Wire-stretcher. No. 1,134,055; Mar. 30; Gaz. vol. 212; p. 1644.
 Meisselbach-Catucci Manufacturing Company. (See Pedersen, Ernest, assignor.)
 Meissner, Alexander. (See Arco and Meissner.)
 Meissner, Alexander, Berlin, Germany. Process and apparatus for determining the position of radiotelegraphic receivers. No. 1,135,604; Apr. 13; Gaz. vol. 213; p. 582.
 Meissner, Edward C., Kansas City, Mo. Friction-igniter for gas-lamps. No. 1,135,128; Apr. 13; Gaz. vol. 213; p. 417.
 Meister, Conrad L. (See Pamplin and Morton, assignors.)
 Meister, William. (See Huber, Ernst, assignor.)
 Meistrell, Joseph U., Brooklyn, N. Y. Type-bar-machine attachment. No. 1,157,243; Oct. 19; Gaz. vol. 219; p. 727.

Alphabetical list of patentees—Continued.

- Meitz, Theodore A., St. Louis, Mo. Button-detaching tool. No. 1,125,866; Jan. 19; Gaz. vol. 210; p. 844.
- Meixell, John W., Lewisburg, Pa. Chimney-cap. No. 1,125,702; Aug. 3; Gaz. vol. 217; p. 79.
- Mela, Temistocle E., Sacramento, Cal. Mail-box. No. 1,125,584; Jan. 19; Gaz. vol. 210; p. 918.
- Melamid, Meilich, Freiburg, Germany. Manufacturing pure resin-oil. No. 1,131,939; Mar. 16; Gaz. vol. 212; p. 800.
- Melamid, Meilich, Freiburg, Germany. Producing pure resin-oils. No. 1,133,994; Mar. 30; Gaz. vol. 212; p. 1622.
- Melas, William, Ridley Park, assignor of one-half to D. Townsend, Philadelphia, Pa. Oil-fired portable rivet-heating furnace. No. 1,130,188; Mar. 2; Gaz. vol. 212; p. 120.
- Melas, William, assignor of one-half to D. Townsend, Philadelphia, Pa. Oil-burner. No. 1,144,719; June 29; Gaz. vol. 215; p. 1397.
- Melas, William, Ridley Park, assignor of one-half to D. Townsend, Philadelphia, Pa. Equalizing oil-burner. No. 1,160,929; Nov. 16; Gaz. vol. 220; p. 973.
- Melin, August, assignor of one-half to I. Osborne and D. Forler, Enumclaw, Wash. Animal-trap. No. 1,145,254; July 6; Gaz. vol. 216; p. 98.
- Mellin, Sven A. (See Johanson, Emil G., assignor.)
- Melcher, Charles H. (See Vatcher and Melcher.)
- Melcher, George S., Sharon, Mass., assignor to The Mason Regulator Company, trustee. Feed-pressure regulator. No. 1,155,076; Sept. 28; Gaz. vol. 218; p. 1047.
- Melchers, John H., Minneapolis, Minn., assignor to North Dakota Straw Products Co., McCanna, N. D. Converting flax-straw fiber into paper-pulp. No. 1,162,797; Dec. 7; Gaz. vol. 221; p. 23.
- Melchert, Charles A., assignor to Automatic Machine Manufacturing Company, Kansas City, Mo. Vending-machine. No. 1,152,430; Sept. 7; Gaz. vol. 218; p. 17.
- Melchert, Charles A., assignor to Automatic Machine Manufacturing Co., Kansas City, Mo. Vending-machine. No. 1,157,792; Oct. 26; Gaz. vol. 219; p. 979.
- Melenbacher, Arthur H., Kansas City, Mo. Alcohol-torch. No. 1,152,745; Sept. 7; Gaz. vol. 218; p. 134.
- Melheim, Herman L., Hanska, Minn. Wrench. No. 1,153,399; Sept. 14; Gaz. vol. 218 p. 405.
- Melkman, Saul E., Montreal, Quebec, Canada. Treating potassium-bearing minerals. No. 1,148,850; Aug. 3; Gaz. vol. 217; p. 131.
- Mella, Alfred, New York, N. Y. Button. No. 1,136,692; Apr. 20; Gaz. vol. 213; p. 1007.
- Mellady, Frank J., New York, N. Y. Gas-range attachment. No. 1,140,994; May 25; Gaz. vol. 214; p. 1259.
- Mellen, Grenville, Mount Vernon, N. Y. Melting aluminum or aluminum alloys. No. 1,160,430; Nov. 16; Gaz. vol. 220; p. 794.
- Mellen, Grenville, East Orange, N. J. Controlling-valve. No. 1,165,616; Dec. 28; Gaz. vol. 221; p. 1132.
- Mellen, Grenville, East Orange, N. J., assignor to Continuous Casting Corporation, Richmond, Va. Apparatus for making rods and tubes from plastic metal. No. 1,139,884; May 18; Gaz. vol. 214; p. 834.
- Mellen, Grenville, East Orange, N. J., assignor to Continuous Casting Corporation, Richmond, Va. Method of and apparatus for continuous casting. No. 1,139,885; May 18; Gaz. vol. 214; p. 835.
- Mellen, Grenville, East Orange, N. J., assignor to Continuous Casting Corporation, Richmond, Va. Casting-pot. No. 1,139,886; May 18; Gaz. vol. 214; p. 835.
- Mellen, Grenville, West Orange, assignor to Continuous Casting Corporation, Newark, N. J. Continuous casting-machine. No. 1,139,887; May 18; Gaz. vol. 214; p. 836.
- Mellen, Grenville, West Orange, assignor to Continuous Casting Corporation, Newark, N. J. Automatic metal-feed for continuous casting-machines. No. 1,139,888; May 18; Gaz. vol. 214; p. 836.
- Mellen, Grenville, West Orange, assignor to Continuous Casting Corporation, Newark, N. J. Guide for continuous casting-machines. No. 1,139,889; May 18; Gaz. vol. 214; p. 836.
- Mellen, Grenville, East Orange, N. J., assignor of one-half to United Aluminum Ingot Company. Producing aluminum from clay, kaolin, and other aluminum silicates. No. 1,160,431; Nov. 16; Gaz. vol. 220; p. 795.
- Mellin, Carl J., Schenectady, N. Y. Fluid-pressure turbine. No. 1,154,648; Sept. 28; Gaz. vol. 218; p. 902.
- Mellin, Carl J., Schenectady, assignor to American Locomotive Company, New York, N. Y. Steam-engine valve-reversing gear. No. 1,140,328; May 18; Gaz. vol. 214; p. 989.
- Mellin, Eric W. (See Seholm and Mellin.)
- Mellinger, Edward A., Chicago, Ill. Telephone signaling system. No. 1,140,329; May 18; Gaz. vol. 214; p. 990.
- Mellinger, Edward A., assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone-exchange trunking system. No. 1,134,978; Apr. 6; Gaz. vol. 213; p. 320.
- Mello, Felipe S. B. de, Rio de Janeiro, Brazil. Electric battery. No. 1,148,152; July 27; Gaz. vol. 216; p. 1182.
- Mello, Manoel E., *et al.* (See Simao, Antonio P., assignor.)
- Mellon, Charles E., Coatesville, assignor, by mesne assignments, to said Mellon, J. H. Smythe, C. E. Gillespie, and M. A. Park, Parkersburg, Pa. Ground receiving outfit. No. 1,163,839; Dec. 14; Gaz. vol. 221; p. 433.
- Mellon, John H., Kansas City, Mo. Roll-securing device for printing-presses. No. 1,147,964; July 27; Gaz. vol. 216; p. 1113.
- Melmore, William M., London, England. Air-compressor. No. 1,139,991; May 18; Gaz. vol. 214; p. 872.
- Melocco, Hugo, Budapest, Austria-Hungary. Watch. No. 1,153,559; Sept. 14; Gaz. vol. 218; p. 463.
- Meloen, Raymond E., Kewanee, Ill. Wheeled cultivator. No. 1,164,543; Dec. 14; Gaz. vol. 221; p. 678.
- Meloon, Jonathan C., Providence, R. I., assignor to General Fire Extinguisher Company. Cap for hose connections. No. 1,163,355; Dec. 7; Gaz. vol. 221; p. 218.
- Melrose, Charles S. (See Davis, Melrose, and Fisher.)
- Melton, Edwin, Clovis, N. Mex. Cultivator. No. 1,155,833; Oct. 5; Gaz. vol. 219; p. 178.
- Meltsner, Oscar, New York, N. Y. Summer garment for men. No. 1,126,817; Feb. 2; Gaz. vol. 211; p. 54.
- Meltzer, Edward, New York, N. Y., assignor, by mesne assignments, to Hydrocarbon Burner & Manufacturing Company. Hydrocarbon-burner. No. 1,152,746; Sept. 7; Gaz. vol. 218; p. 134.
- Meluzzi, Luis, Buenos Aires, Argentina. Game-table. No. 1,154,529; Sept. 21; Gaz. vol. 218; p. 831.
- Melville Clark Piano Company. (See Clark, Ernest G., assignor.)
- Melville Clark Piano Company. (See Clark, Melville, assignor.)
- Melvin, Charles H., Moline, Ill., assignor to Deere & Company. Plow. No. 1,137,881; May 4; Gaz. vol. 214; p. 55.
- Melvin, Charles H., Moline, Ill., assignor to Deere & Company. Engine gang-plow. No. 1,149,074; Aug. 3; Gaz. vol. 217; p. 208.
- Melvin, Charles H., Moline, Ill., assignor to Deere & Company. Lister-cultivator. No. 1,150,380; Aug. 17; Gaz. vol. 217; p. 841.
- Melvin, Charles H., Moline, Ill., assignor to Deere & Company. Wheeled plow. No. 1,160,743; Nov. 16; Gaz. vol. 220; p. 909.
- Melvin, Charles H., assignor to Deere & Company, Moline, Ill. Antislipping device for traction-wheels. No. 1,161,148; Nov. 23; Gaz. vol. 220; p. 1095.
- Melvin, Charles H., Moline, Ill., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-press. No. 1,147,742; July 27; Gaz. vol. 216; p. 1035.
- Melvin, Charles H., Moline, Ill., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-press. No. 1,147,743; July 27; Gaz. vol. 216; p. 1036.
- Melvin, Wilfred J., and H. J. Burbridge, Bathurst, New Brunswick, Canada. Railway safety device. No. 1,138,883; May 11; Gaz. vol. 214; p. 447.
- Memminger, Robert, Nuremberg, Germany. Fermenting-bung. No. 1,129,885; Mar. 2; Gaz. vol. 212; p. 18.
- Memmler, Arthur H., San Gabriel, Cal. Drawing-file. No. 1,135,310; Apr. 13; Gaz. vol. 213; p. 478.
- Memmler, Arthur H., Monrovia, Cal. Drawing-file. No. 1,165,108; Dec. 21; Gaz. vol. 221; p. 916.
- Menchion, Thomas H., Fall River, Mass. Seating arrangement for cars. No. 1,148,917; Aug. 3; Gaz. vol. 217; p. 153.
- Mencke, Frederick C., *et al.* (See Weeks, Charles A., assignor.)
- Mendelman, Leon E., Los Angeles, Cal. Collapsible packing-box. No. 1,147,257; July 20; Gaz. vol. 216; p. 839.
- Mendelsohn, Harry, New York, N. Y. Reversible buffer. No. 1,134,088; Mar. 30; Gaz. vol. 212; p. 1656.
- Mendelsohn, Harry, Westfield, N. J. Stamp-rack. No. 1,146,893; July 20; Gaz. vol. 216; p. 710.
- Mendelson, Aaron. (See Goldberg and Mendelson.)
- Mendelson, Aaron, New York, N. Y. Cigarette-box. No. 1,158,826; Nov. 2; Gaz. vol. 220; p. 148.
- Mendelson, Aaron, New York, N. Y. Cigarette-box. No. 1,160,930; Nov. 16; Gaz. vol. 220; p. 973.
- Mendelson, Aaron, New York, N. Y. Cigarette box or case. No. 1,160,931; Nov. 16; Gaz. vol. 220; p. 973.
- Mendelson, Aaron, New York, N. Y. Double-pressure set-screw. No. 1,160,932; Nov. 16; Gaz. vol. 220; p. 974.
- Mendelson, Aaron, New York, N. Y. Cigarette-case. No. 1,160,933; Nov. 16; Gaz. vol. 220; p. 974.
- Mendelson, Aaron, and S. J. Goldberg, New York, N. Y. Cigarette-box. No. 1,144,559; June 29; Gaz. vol. 215; p. 1341.
- Mendelson, Bessie, assignor of one-half to G. Mendelson, Merrill, Wis. Reinforced shoe-fly. No. 1,145,784; July 6; Gaz. vol. 216; p. 283.
- Mendelson, Gilbert. (See Mendelson, Bessie, assignor.)
- Menden, William S., Brooklyn, N. Y., assignor to Megosin Company, Inc. Speed-control device. No. 1,132,205; Mar. 16; Gaz. vol. 212; p. 897.
- Menden, William S., Brooklyn, N. Y., assignor to Megosin Company, Inc. Means for controlling the illumination of vehicles. No. 1,135,605; Apr. 13; Gaz. vol. 213; p. 582.
- Menden, William S., Brooklyn, N. Y., assignor to Megosin Company, Inc. Speed-control device for vehicles. No. 1,137,882; May 4; Gaz. vol. 214; p. 55.

Alphabetical list of patentees—Continued.

- Menden, William S., Brooklyn, N. Y., assignor to Megosin Company, Inc. Motor-control device. No. 1,138,497; May 4; Gaz. vol. 214; p. 272.
- Menden, William S., Brooklyn, N. Y., assignor to Megosin Company, Inc. Passenger-car. No. 1,142,263; June 8; Gaz. vol. 215; p. 451.
- Menden, William S., Brooklyn, N. Y., assignor to Megosin Company, Inc. Gate for vehicles and means for mounting same. No. 1,142,264; June 8; Gaz. vol. 215; p. 451.
- Menden, William S., Brooklyn, N. Y., assignor to Megosin Company, Inc. Automatic switch-controlling means. No. 1,149,207; Aug. 10; Gaz. vol. 217; p. 358.
- Mendenhall, Clarence M., New York, N. Y. Gage-glass. No. 1,142,262; June 8; Gaz. vol. 215; p. 450.
- Mendenhall, Frank E., and W. G. Erskine, Minatare, Nebr. Dam apparatus for irrigation-ditches. No. 1,129,703; Feb. 23; Gaz. vol. 211; p. 1185.
- Méndez, Raul, Curacao, Dutch West Indies. Lowering device. No. 1,144,982; June 29; Gaz. vol. 215; p. 1486.
- Mendham, Conrad F. (See Cassidy and Mendham.)
- Mendlik, Charles D. (See Todd and Mendlik.)
- Menge, William, Jr., assignor to Dolgeville Felt Shoe Company, Dolgeville, N. Y. Manufacture of shoes. No. 1,142,265; June 8; Gaz. vol. 215; p. 451.
- Mengel Box Company. (See Schleicher, John W. and R., assignors.)
- Mengelbier, Oscar, Berlin, Germany. Extraction of juice from sugar-cane and similar saccharine material. No. 1,141,572; June 1; Gaz. vol. 215; p. 174.
- Menger, Joseph R. W., Red Bank, N. J., assignor of one-half to D. C. Butts, New York, N. Y. Cover-holder for pots. No. 1,125,585; Jan. 10; Gaz. vol. 210; p. 918.
- Menges, Albert C., Memphis, Tenn. Automatic gasoline shut-off. No. 1,128,345; Feb. 16; Gaz. vol. 211; p. 679.
- Menges, Theodore C., assignor to Associated Manufacturers Company, Waterloo, Iowa. Coordinating actuating means for magnetos and igniters of internal-combustion engines. No. 1,155,500; Oct. 5; Gaz. vol. 219; p. 62.
- Menhennet, Richard, Philadelphia, Pa. Automobile top-lifter. No. 1,166,235; Dec. 28; Gaz. vol. 221; p. 1352.
- Menier, Steven C., San Francisco, Cal. Floating electric trolleyway and floating passenger-car. No. 1,159,519; Nov. 9; Gaz. vol. 220; p. 419.
- Menkin, Burnett, New York, N. Y. Return mechanism for moving parts of machinery. No. 1,151,211; Aug. 24; Gaz. vol. 217; p. 1185.
- Menn, Herman, assignor of one-half to S. Lindsey, Dexter, N. Mex. Spring for automobile-tires. No. 1,147,807; July 27; Gaz. vol. 216; p. 1057.
- Menne, Joseph, Green Bay, Wis. Traction-wheel. No. 1,142,189; June 8; Gaz. vol. 215; p. 425.
- Mennesson, Marcel. (See Goudard and Mennesson.)
- Menningen, Joseph F., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Forming an article from an insulating composition. No. 1,162,092; Nov. 30; Gaz. vol. 220; p. 1474.
- Menough, Paul S., Wellsville, Ohio. Casting-machine. No. 1,162,246; Nov. 30; Gaz. vol. 220; p. 1527.
- Menough, Silas E. (See Sinclair and Menough.)
- Menrad, Oscar, and A. E. Wittig, Rochester, N. Y. Signal for vehicles. No. 1,124,497; Jan. 12; Gaz. vol. 210; p. 497.
- Mensing, Karl, Hanau, Germany, assignor to General Electric Company. Gas-tight seal. No. 1,141,123; June 1; Gaz. vol. 215; p. 15.
- Menten, Herman, Astoria, N. Y. Combined stretcher, cot, and hammock. No. 1,151,495; Aug. 24; Gaz. vol. 217; p. 1280.
- Menteyne, Paul M. (See Laird, Menteyne, and Degallie.)
- Mentgen, Edward B., *et al.* (See Palmer, William F., assignor.)
- Mentgen, Francis A., *et al.* (See Palmer, William F., assignor.)
- Mentgen, William P., *et al.* (See Palmer, William F., assignor.)
- Mentz, Henry L., Huntington, W. Va. Safety-lock door-catch. No. 1,147,530; July 20; Gaz. vol. 216; p. 934.
- Mentzell, William V. (See Coyne, Edmund M., assignor.)
- Mentzer, Claude E., Des Moines, Iowa. Scenery stop-iron. No. 1,161,000; Nov. 16; Gaz. vol. 220; p. 998.
- Mentzer, John P., Chicago, Ill. Loose-leaf binder. No. 1,137,012; Apr. 27; Gaz. vol. 213; p. 1158.
- Mentzer, Oliver A., assignor of one-fourth to H. E. Ransing, one-fourth to C. L. Marshall, Lancaster, Pa., and one-fourth to F. C. Sweeton, Haddonfield, N. J. Nut and bolt locking and releasing device. No. 1,143,127; June 15; Gaz. vol. 215; p. 791.
- Menz, Emil, Hamilton, assignor by mesne assignments, to The Computing Scale Company, Dayton, Ohio. Spring weighing-scale. No. 1,141,722; June 1; Gaz. vol. 215; p. 225.
- Menz, Emil, and J. L. Jackson, Hamilton, assignors, by mesne assignments, to The Computing Scale Company, Dayton, Ohio. Tare-beam for scales. No. 1,155,259; Sept. 28; Gaz. vol. 218; p. 1108.
- Menzel, Charles F., and G. C. Carpenter, Roxbury, Mass. Pliers. No. 1,135,830; Apr. 13; Gaz. vol. 213; p. 663.
- Menzies, James, New Orleans, La. Conveyor for levee construction. No. 1,153,851; Sept. 14; Gaz. vol. 218; p. 565.
- Mercantile Corporation. (See Banzett, William H., assignor.)
- Mercantile Corporation. (See Banzett and Kenny, assignors.)
- Mercantile Corporation. (See Smith, Charles F., assignor.)
- Mercantile Corporation. (See Stone Wilbur M., assignor.)
- Mercer, Alonzo M., assignor of one-half to B. A. Bennett, Millwood, Ga. Driving means for churns. No. 1,159,520; Nov. 9; Gaz. vol. 220; p. 419.
- Mercer, Carl, Sperry, Okla. Valve-coupling. No. 1,163,435; Dec. 7; Gaz. vol. 221; p. 245.
- Mercer, Claude. (See Mattingly, Lan J., assignor.)
- Mercer, George M., Cleveland, Ohio. Computing-scale. No. 1,124,052; Jan. 5; Gaz. vol. 210; p. 290.
- Mercer, Henry H. (See Ball and Mercer.)
- Mercer, Henry H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stoneworking-machine. No. 1,142,975; June 15; Gaz. vol. 215; p. 738.
- Mercer, Henry H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stoneworking-machine. No. 1,149,075; Aug. 3; Gaz. vol. 217; p. 209.
- Mercer, Henry H., and A. E. Champagne, Claremont, N. H., assignors, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Tool-actuating device. No. 1,131,256; Mar. 9; Gaz. vol. 212; p. 524.
- Mercer, William T., Wilmington, N. C. Mail-catcher. No. 1,157,244; Oct. 19; Gaz. vol. 219; p. 727.
- Merchants Safety Equipment Corporation. (See Platt, Maurice A., assignor.)
- Mercié, Henri A. (See Benét and Mercié.)
- Mercier, Daniel, Annonay, Ardèche, France. Drum for machines for stretching hides and skins. No. 1,126,057; Jan. 26; Gaz. vol. 210; p. 1121.
- Mercier, Joseph T., assignor of one-half to W. S. McClave, Chicago, Ill. Heating appliance. No. 1,153,096; Sept. 7; Gaz. vol. 218; p. 259.
- Meredith, Edward W. (See Speight, Alfred, assignor.)
- Meredith, Edward W., Reynoldsville, assignor of one-fourth to E. V. Steell, Crenshaw, Pa. Fluid-pressure motor. No. 1,158,525; Nov. 2; Gaz. vol. 220; p. 41.
- Meredith, Samuel W., and T. Walsh, Philadelphia, Pa. Signaling mechanism for automobiles. No. 1,150,872; Aug. 24; Gaz. vol. 217; p. 1070.
- Meredith, Thomas W., New York, N. Y. Shoe. No. 1,158,526; Nov. 2; Gaz. vol. 220; p. 41.
- Meredith, William A., Chicago, Ill. Union garment. No. 1,134,056; Mar. 30; Gaz. vol. 212; p. 1644.
- Meredith, William R., Youngstown, Ohio. Tire for vehicles. No. 1,143,982; June 22; Gaz. vol. 215; p. 1112.
- Merewether, G. W. E., *et al.* (See Royall, John H., assignor.)
- Mergen, Joseph F. (See Gates, Arthur L., assignor.)
- Mergenthaler Linotype Company. (See Albrecht, Christian A., assignor.)
- Mergenthaler Linotype Company. (See Atkins, Edgar H., assignor.)
- Mergenthaler Linotype Company. (See Bedell, Richard M., assignor.)
- Mergenthaler Linotype Company. (See Benjamin, George E., assignor.)
- Mergenthaler Linotype Company. (See Bloch, Bruno, assignor.)
- Mergenthaler Linotype Company. (See Burdine, Charles C., assignor.)
- Mergenthaler Linotype Company. (See Campbell, Francis H., assignor.)
- Mergenthaler Linotype Company. (See Christel, Carl H., assignor.)
- Mergenthaler Linotype Company. (See Coe, Walter S., assignor.)
- Mergenthaler Linotype Company. (See Converse, Francis B., assignor.)
- Mergenthaler Linotype Company. (See Degener, Heinrich, assignor.)
- Mergenthaler Linotype Company. (See Dodge, Norman, assignor.)
- Mergenthaler Linotype Company. (See Dodge, Philip T., assignor.)
- Mergenthaler Linotype Company. (See Eichler, Artur, assignor.)
- Mergenthaler Linotype Company. (See Elliott, William E., assignor.)
- Mergenthaler Linotype Company. (See Geel, Max J., assignor.)
- Mergenthaler Linotype Company. (See Guest, Alfred W. F., assignor.)
- Mergenthaler Linotype Company. (See Hoyer, Anton, assignor.)
- Mergenthaler Linotype Company. (See Ingle and Eva, assignors.)
- Mergenthaler Linotype Company. (See Johnson, Elmer H., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
- Mergenthaler Linotype Company. (See Kingsbury, George P., assignor.)
- Mergenthaler Linotype Company. (See Marlatt, George E., assignor.)

- Mergenthaler Linotype Company. (See Morehouse, Melvin W., assignor.)
- Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)
- Mergenthaler Linotype Company. (See Pierson, Edwin W., assignor.)
- Mergenthaler Linotype Company. (See Price, Ernest, assignor.)
- Mergenthaler Linotype Company. (See Reist and Batsford, assignors.)
- Mergenthaler Linotype Company. (See Röger, Karl, assignor.)
- Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
- Mergenthaler Linotype Company. (See Rudolph, Herman J., assignor.)
- Mergenthaler Linotype Company. (See Taft, Henry D., assignor.)
- Mergenthaler Linotype Company. (See Van Blijenburgh, Jozef P., assignor.)
- Mergenthaler Linotype Company. (See Watson, James A., assignor.)
- Mergenthaler Linotype Company. (See Wilson, Fergus F., assignor.)
- Meriam, Joseph B., Cleveland, Ohio. Water-jacketing. No. 1,135,037; Apr. 13; Gaz. vol. 213; p. 386.
- Merian, Frederic, Pittsburgh, Pa. Cover-shifting mechanism. No. 1,141,573; June 1; Gaz. vol. 215; p. 174.
- Meriden Fire Arms Co. (See Horne, George A., assignor.)
- Mérie, Jean, Paris, France. Milk-sterilizing apparatus. No. 1,129,704; Feb. 23; Gaz. vol. 211; p. 1186.
- Meriwether, Charles N., Clarksville, Tenn. Treating phosphates. No. 1,140,390; Aug. 10; Gaz. vol. 217; p. 425.
- Meriwether, Coleman. (See Hirsh, Meriwether, and Mitchell.)
- Merk, Friedrich, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Automatic telephone system. No. 1,132,107; Mar. 16; Gaz. vol. 212; p. 860.
- Merk, Lawrence A., assignor of one-half to J. Hay, Pittsburgh, Pa. Means for controlling flow of fluids. No. 1,141,647; June 1; Gaz. vol. 215; p. 199.
- Merk, S. D., et al. (See Wheeler, Richard, assignor.)
- Merk-Wirz, August, Zurich, Switzerland. Directory-board. No. 1,132,108; Mar. 16; Gaz. vol. 212; p. 861.
- Merkel, August. (See Hermanns and Merkel.)
- Merkel, Benedikt. (See Enzelmann and Merkel.)
- Merkel, Jacob. (See Carroll and Merkel.)
- Merker, Harry C., Seattle, Wash. Can attachment. No. 1,142,601; June 8; Gaz. vol. 215; p. 569.
- Merker, Monte C. (See Settergren, Bernhard, assignor.)
- Merklein, Frederick J. (See Buttner and Merklein.)
- Merkst, Gustav A., Worcester, Mass., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Rail-bond. No. 1,154,264; Sept. 21; Gaz. vol. 218; p. 741.
- Merlin, Sidney L. W., Paris, France, assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,140,330; May 18; Gaz. vol. 214; p. 990.
- Merling, Georg, Elberfeld, O. Chrescinski, and H. Köhler, Leverkusen, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Beta-acetyl-alkyl-dialkylamins. No. 1,126,549; Jan. 26; Gaz. vol. 210; p. 1300.
- Merliss, Morduck, Flint, assignor of one-half to C. R. Tromley, Detroit, Mich. Drill-press. No. 1,125,147; Jan. 19; Gaz. vol. 210; p. 763.
- Meroz, John A., Waltham, Mass. Watch-adjusting means. No. 1,159,242; Nov. 2; Gaz. vol. 220; p. 290.
- Merrege, Frank C., Marine City, Mich. Engine-manifold. No. 1,160,744; Nov. 16; Gaz. vol. 220; p. 909.
- Merrel, Irving S., Syracuse, N. Y. Method of desiccating. No. 1,133,051; Mar. 23; Gaz. vol. 212; p. 1257.
- Merrell, Frederick R., Galveston, Tex. Window-sash lock. No. 1,142,450; June 8; Gaz. vol. 215; p. 518.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Collecting apparatus for finely-divided solids. No. 1,157,947; Oct. 26; Gaz. vol. 219; p. 1034.
- Merrell, Irving S. and O. E., assignors to Merrell-Soule Company, Syracuse, N. Y. Desiccating. No. 1,141,879; June 1; Gaz. vol. 215; p. 276.
- Merrell, John F., Marquette, Kans. Clearing attachment for rakes. No. 1,157,566; Oct. 19; Gaz. vol. 219; p. 838.
- Merrell, Oliver E. (See Merrell, Irving S. and O. E.)
- Merrell, Oliver E., assignor to Merrell-Soule Company, Syracuse, N. Y. Obtaining the solids from liquids. No. 1,136,356; Apr. 20; Gaz. vol. 213; p. 887.
- Merrell-Soule Company. (See Merrell, Irving S., assignor.)
- Merrell-Soule Company. (See Merrell, Irving S. and O. E., assignors.)
- Merrell-Soule Company. (See Merrell, Oliver E., assignor.)
- Merrett, Albert, Denver, Colo. Fire-escape. No. 1,166,141; Dec. 28; Gaz. vol. 221; p. 1317.
- Merriam, Ezra B., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,144,047; June 2; Gaz. vol. 215; p. 1136.
- Merriam, Ezra B., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,156,542; Oct. 12; Gaz. vol. 219; p. 448.
- Merriam, Ezra B., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,161,716; Nov. 23; Gaz. vol. 220; p. 1295.
- Merriam, Harry C., and L. M. York, Edmonton, Alberta, Canada. Carbureter. No. 1,154,530; Sept. 21; Gaz. vol. 218; p. 831.
- Merrick, Asa L. (See Lawson, Benjamin S., assignor.)
- Merrick, Frank W., Boston, Mass. Leather-scaring machine. No. 1,141,253; June 1; Gaz. vol. 215; p. 57.
- Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Thread-controlling mechanism for sewing-machines. No. 1,129,827; Feb. 23; Gaz. vol. 211; p. 1227.
- Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Welt-shoe. No. 1,137,270; Apr. 27; Gaz. vol. 213; p. 1252.
- Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Work-support for sewing-machines. No. 1,155,318; Sept. 28; Gaz. vol. 218; p. 1128.
- Merriett, Alva S., Los Angeles, Cal. Apparatus for forming concrete structures. No. 1,137,998; May 4; Gaz. vol. 214; p. 96.
- Merrifield, Richard. (See Lester, James F., assignor.)
- Merrigan, James F., Boston, Mass. Glass-washer. No. 1,140,698; May 25; Gaz. vol. 214; p. 1154.
- Merrill, Alfred H., Adrian, Mich. Gas-burner. No. 1,139,698; May 18; Gaz. vol. 214; p. 770.
- Merrill, Augustus A., Sioux Rapids, Iowa. End-gate. No. 1,135,540; Apr. 13; Gaz. vol. 213; p. 559.
- Merrill, Carle J. (See Andrews and Merrill.)
- Merrill, Edwin R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining-machine. No. 1,127,663; Feb. 9; Gaz. vol. 211; p. 387.
- Merrill, Edwin R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine and truck. No. 1,142,348; June 8; Gaz. vol. 215; p. 480.
- Merrill, Florence W., et al. (See Watts, William E., assignor.)
- Merrill, Floyd J. (See Prince and Merrill.)
- Merrill, Frank E., Evanston, Ill. Combined tag-holder and clip. No. 1,133,388; Mar. 30; Gaz. vol. 212; p. 1411.
- Merrill, Guy A., New York, N. Y. Electrical protector for automobiles and similar vehicles. No. 1,131,405; Mar. 9; Gaz. vol. 212; p. 576.
- Merrill, Guy W., Lincoln, Me. Printing apparatus. No. 1,125,148; Jan. 19; Gaz. vol. 210; p. 763.
- Merrill, Jason L., Washington, D. C. Making paper-pulp from flax-straw, flax-tow, and other ligneous material. No. 1,145,498; July 6; Gaz. vol. 216; p. 183.
- Merrill, John F., assignor to H. T. Trunkay, Wenatchee, Wash. Orchard-ladder. No. 1,139,990; May 18; Gaz. vol. 214; p. 872.
- Merrill, Luther M., Joplin, Mo. Screening device for gas or liquids. No. 1,161,715; Nov. 23; Gaz. vol. 220; p. 1295.
- Merrill Metallurgical Company. (See Clevenger, Galen H., assignor.)
- Merrill Metallurgical Company. (See Mills, Louis D., assignor.)
- Merrill, Raymond A., New York, N. Y. Envelop. No. 1,142,349; June 8; Gaz. vol. 215; p. 480.
- Merrill, William F., New York, N. Y. Electric stove. No. 1,134,886; Apr. 6; Gaz. vol. 213; p. 288.
- Merriman Brothers. (See Breach, James J., assignor.)
- Merriman, George, Toledo, Ohio. Drier. No. 1,146,894; July 20; Gaz. vol. 216; p. 710.
- Merriman, Harry L., and T. May, Woodlawn, Pa. Rail-joint. No. 1,142,266; June 8; Gaz. vol. 215; p. 451.
- Merriman, Leonard J., Wilmington, N. C. Plant-cover. No. 1,144,663; June 29; Gaz. vol. 215; p. 1376.
- Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Presser-foot-lifting mechanism. No. 1,134,477; Apr. 6; Gaz. vol. 213; p. 144.
- Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Means for fixing machine elements on shafts. No. 1,134,478; Apr. 6; Gaz. vol. 213; p. 144.
- Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Speed-governed stopping mechanism. No. 1,156,916; Oct. 19; Gaz. vol. 219; p. 609.
- Merritt, Benjamin F. (See Dixon and Merritt.)
- Merritt, Benjamin F., East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Selecting mechanism. No. 1,161,500; Nov. 23; Gaz. vol. 220; p. 1222.
- Merritt, Irving D., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,775; May 4; Gaz. vol. 214; p. 18.
- Merritt, James G., and F. W. Watkins, Newburgh, N. Y. Rotary swing. No. 1,155,944; Oct. 5; Gaz. vol. 219; p. 216.
- Merritt, Joseph. (See Lorenz and Merritt.)
- Merritt, Joseph, Hartford, Conn. Link. No. 1,161,004; Nov. 16; Gaz. vol. 220; p. 1000.

Alphabetical list of patentees—Continued.

- Merritt, Joseph, Hartford, Conn., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Grinding-mill. No. 1,141,898; June 1; Gaz. vol. 215; p. 285.
- Merritt, Joseph, Hartford, Conn., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Feeding and blending mechanism for grinding-mills. No. 1,141,899; June 1; Gaz. vol. 215; p. 285.
- Merritt, Joseph, assignor to The Hartford Lock Ring Company, Hartford, Conn. Ring-straightening mechanism. No. 1,161,001; Nov. 16; Gaz. vol. 220; p. 999.
- Merritt, Joseph, assignor to The Hartford Lock Ring Company, Hartford, Conn. Making links. No. 1,161,003; Nov. 16; Gaz. vol. 220; p. 999.
- Merritt, Joseph, and E. W. Smith, Hartford, Conn. Machine for cleaning the exteriors of receptacles. No. 1,134,213; Apr. 6; Gaz. vol. 213; p. 48.
- Merritt, Joseph, and C. H. Storrs, assignors to The Hartford Lock Ring Company, Hartford, Conn. Machine for feeding rings. No. 1,134,887; Apr. 6; Gaz. vol. 213; p. 288.
- Merritt, Joseph, Hartford, and W. A. Sawyer, West Hartford, assignors to The Hartford Lock Ring Company, Hartford, Conn. Ring-spreading machine. No. 1,161,002; Nov. 16; Gaz. vol. 220; p. 999.
- Merritt, Joseph, Hartford, and W. A. Sawyer, West Hartford, assignors to The Hartford Lock Ring Company, Hartford, Conn. Staple-forming machine. No. 1,165,994; Dec. 28; Gaz. vol. 221; p. 1263.
- Merritt, Matthew M., Middleton, Mass., assignor, by mesne assignments, to General Electric Company. Filament support. No. 1,160,745; Nov. 16; Gaz. vol. 220; p. 910.
- Merritt, William E., Portland, Oreg. Valve. No. 1,142,723; June 8; Gaz. vol. 215; p. 608.
- Morrow, Charles H., Brockton, Mass. Pieced outer sole. No. 1,136,253; Apr. 20; Gaz. vol. 213; p. 850.
- Morrow, Joseph M., assignor to The Morrow Machine Company, Hartford, Conn. Needle-clamp. No. 1,160,308; Nov. 16; Gaz. vol. 220; p. 753.
- Morrow, Le Roy, Springfield, Ohio. Dumping device. No. 1,129,886; Mar. 2; Gaz. vol. 212; p. 19.
- Morrow Machine Company, The. (See Avis, Samuel W., assignor.)
- Morrow Machine Company, The. (See Morrow, Joseph M., assignor.)
- Merry, William F., et al. (See Neville, Harry, assignor.)
- Mersereau, Edwin E. (See Cohen, David, assignor.)
- Mersereau Metal Bed Company. (See Appugliese, Louis, assignor.)
- Mersheimer, Lawrence M., New Castle, Pa. Locking device for milk-cans. No. 1,132,598; Mar. 23; Gaz. vol. 212; p. 1088.
- Mershon, Ralph D., New York, N. Y. Electrolytic condenser and operating the same. No. 1,132,957; Mar. 23; Gaz. vol. 212; p. 1221.
- Mershon, Ralph D., New York, N. Y. Electrolytic apparatus employing filmed electrodes. No. 1,141,402; June 1; Gaz. vol. 215; p. 113.
- Mershon, Ralph D., New York, N. Y. Making insulating devices. No. 1,164,739; Dec. 21; Gaz. vol. 221; p. 786.
- Mertens, Gustav, Dresden, Germany. Electromagnetic rail-brake. No. 1,123,343; Jan. 5; Gaz. vol. 210; p. 51.
- Mertes, Frank N., Los Angeles, Cal. Fastener. No. 1,144,222; June 22; Gaz. vol. 215; p. 1199.
- Merton, Charles S. (See Merton, Percy and C. S.)
- Merton, Percy, and C. S., Park Ridge, N. J. Sweat-band for head-gear. No. 1,134,888; Apr. 6; Gaz. vol. 213; p. 288.
- Mertsheimer, Augustus, Salt Lake City, Utah. Automatic lubricator. No. 1,139,697; May 18; Gaz. vol. 214; p. 769.
- Mertsheimer, Frederick, Kansas City, Mo. Steam-exhaust nozzle. No. 1,155,362; Oct. 5; Gaz. vol. 219; p. 13.
- Mertz, Boyd F., Northumberland, Pa. Vehicle-wheel with demountable rim. No. 1,142,350; June 8; Gaz. vol. 215; p. 480.
- Mertz, Nathaniel D., Freeport, Ill. Halter. No. 1,136,693; Apr. 20; Gaz. vol. 213; p. 1007.
- Mervin, William M. (See Best and Mervin.)
- Merwin, John C., et al. (See Koehler, Maximilian E., assignor.)
- Merz, Theodore C., Detroit, Mich. Antifriction device for leaf-springs. No. 1,160,309; Nov. 16; Gaz. vol. 220; p. 753.
- Meschenmoser, William F., New Dorp, N. Y. Plug-switch. No. 1,157,026; Oct. 19; Gaz. vol. 219; p. 649.
- Meschenmoser, William F., New Dorp, N. Y. Plug-receptacle box for electric circuits. No. 1,160,187; Nov. 16; Gaz. vol. 220; p. 711.
- Mesinger, Frederick, New York, N. Y. Saddle for motorcycles. No. 1,133,389; Mar. 30; Gaz. vol. 212; p. 1412.
- Mesinger, Frederick, New York, N. Y. Saddle for motorcycles. No. 1,157,711; Oct. 26; Gaz. vol. 219; p. 952.
- Mesinger, Henry, New York, N. Y. Saddle for motorcycles. No. 1,130,316; Mar. 2; Gaz. vol. 212; p. 165.
- Mesinger-Whitney Electric Company. (See Whitney, Perrin B., assignor.)
- Mesker & Bro. (See Mesker and Benc, assignors.)
- Mesker Brothers Iron Company. (See Dowling, William, assignor.)
- Mesker Brothers Iron Company. (See Dowling and Schroeder, assignors.)
- Mesker, Frank, and J. Benc, assignors to Mesker & Bro., St. Louis, Mo. Window. No. 1,139,308; May 11; Gaz. vol. 214; p. 594.
- Messenger, Roy B., Pomeroy, Wash. Game. No. 1,165,798; Dec. 28; Gaz. vol. 221; p. 1196.
- Messenger Screw Co. (See Tobin, Joseph H., assignor.)
- Messer, Adolf, Frankfurt-on-the-Main, Germany. Apparatus for cutting metal. No. 1,139,048; May 11; Gaz. vol. 214; p. 506.
- Messer, Adolf, Frankfurt-on-the-Main, Germany. Acetylene-gas apparatus. No. 1,163,939; Dec. 14; Gaz. vol. 221; p. 467.
- Messer, Amos H., Mankato, Minn. Railway and highway signaling device. No. 1,155,834; Oct. 5; Gaz. vol. 219; p. 178.
- Messer, Earl S., Pasadena, Cal. Collapsible booth. No. 1,134,399; Apr. 6; Gaz. vol. 213; p. 115.
- Messeri, John J., assignor of one-half to F. H. Elckhoff, Kingsville, Tex. Air-pump. No. 1,140,699; May 25; Gaz. vol. 214; p. 1154.
- Messerschmitt, Anton, Stolberg, Germany. Nitrate fertilizer and making the same. No. 1,135,387; Apr. 13; Gaz. vol. 213; p. 505.
- Messerschmitt, Anton, Stolberg, Germany. Making hydrogen. No. 1,152,196; Aug. 31; Gaz. vol. 217; p. 1568.
- Messerschmitt, Anton, Stolberg, Germany. Process of and apparatus for making hydrogen. No. 1,152,197; Aug. 31; Gaz. vol. 217; p. 1569.
- Messick, Charles. (See Henschel and Messick.)
- Messier, Addaloro S. (See Messier, Felix E. and A. S.)
- Messier, Felix E. and A. S., Springfield, Mass. Vehicle. No. 1,133,444; Mar. 30; Gaz. vol. 212; p. 1431.
- Messier, Rodolph J., Fall River, Mass. Measuring instrument. No. 1,129,705; Feb. 23; Gaz. vol. 211; p. 1186.
- Messikommer, Jacob, Chicago, Ill. Safety appliance for flying-machines. No. 1,143,643; June 22; Gaz. vol. 215; p. 996.
- Messmer, Onslow W., assignor to The White Knight Company, New York, N. Y. Telephone-sheath. No. 1,123,909; Jan. 5; Gaz. vol. 210; p. 243.
- Messinger, George E., Birmingham, Ala. Coin-vending machine. No. 1,154,711; Sept. 28; Gaz. vol. 218; p. 923.
- Messinger, William, Philadelphia, Pa. Hydraulic jack. No. 1,152,829; Sept. 7; Gaz. vol. 218; p. 165.
- Messinger, William, Philadelphia, Pa. Turret-mount trunnion-bearing. No. 1,161,501; Nov. 23; Gaz. vol. 220; p. 1222.
- Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Automatic control of conveyers. No. 1,125,704; Jan. 19; Gaz. vol. 210; p. 964.
- Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Tonnage-regulator. No. 1,125,705; Jan. 19; Gaz. vol. 210; p. 965.
- Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Duplex weigher. No. 1,163,678; Dec. 14; Gaz. vol. 221; p. 374.
- Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Electric counter attachment for rotary meters. No. 1,163,765; Dec. 14; Gaz. vol. 221; p. 407.
- Messler, Mattie C. (See Herrick, Albert B., assignor.)
- Messmore, Ernest O., Tipton, Ind. Odorless garbage-receptacle. No. 1,156,304; Oct. 12; Gaz. vol. 219; p. 363.
- Messner, Fred C., and J. W. Lamparter, Moundsville, W. Va. Glass-molding apparatus. No. 1,143,423; June 15; Gaz. vol. 215; p. 897.
- Mesta Machine Company. (See Filipietz, Paul, assignor.)
- Meste, Frederick A., Baltimore, Md. Emergency-brake for ships. No. 1,165,272; Dec. 21; Gaz. vol. 221; p. 973.
- Metal Label & Manufacturing Company, The. (See Grimes, James B., assignor.)
- Metal, Max H., New York, N. Y. Coin-case. No. 1,131,406; Mar. 9; Gaz. vol. 212; p. 576.
- Metal Molds Compressed Castings Company. (See Craig, Alvin M., assignor.)
- Metal Specialties Manufacturing Company. (See Berg, John, assignor.)
- Metal-Industrie und Handels-Gesellschaft mit beschränkter Haftung. (See Husemann, Friedrich, assignor.)
- Metal Industrie Schönebeck Aktien Gesellschaft. (See Lütze, Carl, assignor.)
- Metallic Flexible Hose Company. (See Wolf and Governor, assignors.)
- Metalpapier-Bronzefarben-Blattmetallwerke, Aktiengesellschaft. (See Heinrich, Jacob, assignor.)
- Metallurgical Engineering & Process Corporation. (See Robinson, Cyrus, assignor.)
- Metallurgical Engineering & Process Corporation. (See Towne and Robinson, assignors.)
- Metals Coating Company of America. (See Herkenrath, Franz, assignor.)
- Metals Coating Company of America. (See Morf, Erlka, assignor.)
- Metals Coating Company of America. (See Schoop, Max W., assignor.)
- Metals Recovery Company. (See Callow, John M., assignor.)
- Metals Recovery Company. (See Callow and Kelly, assignors.)

Alphabetical list of patentees—Continued.

- Metals Research Company. (See Bacon, Raymond F., assignor.)
- Metals Research Company. (See Garner, James B., assignor.)
- Metallate Company, The. (See Adler, De Witt S., assignor.)
- Metaxas, Nicolas P., New York, N. Y. Operating-table adjunct. No. 1,148,980; Aug. 3; Gaz. vol. 217; p. 176.
- Metcalfe, Elmer G., Cortland, N. Y. Supporting-rack. No. 1,162,298; Nov. 30; Gaz. vol. 220; p. 1545.
- Metcalfe, Eloise H., Richmond, Va. Rolling seat. No. 1,150,052; Aug. 17; Gaz. vol. 217; p. 724.
- Metcalfe, George P., St. Paul, Minn. Electric heater for use in connection with water-cooled gasoline-automobiles. No. 1,155,599; Oct. 5; Gaz. vol. 219; p. 95.
- Metcalfe, Homer, Tribbey, Okla. Stirrup. No. 1,136,154; Apr. 20; Gaz. vol. 213; p. 815.
- Metcalfe, Millard F., et al. (See MacPherson, John G., assignor.)
- Metcalfe, Walter E., Hudson Falls, N. Y. Paper-making machine. No. 1,152,747; Sept. 7; Gaz. vol. 218; p. 135.
- Metcalfe, William F., and S. W. Leidich, Philadelphia, Pa. Cigar crimper or indenter. No. 1,124,053; Jan. 5; Gaz. vol. 210; p. 290.
- Metcalfe, Robert F., Erie, Pa. Water-heater. No. 1,140,910; May 25; Gaz. vol. 214; p. 1229.
- Metcalfe, Robert F., New Haven, Conn. Burner. No. 1,162,942; Dec. 7; Gaz. vol. 221; p. 71.
- Methven, Emily V. (See Davis, Robert J., assignor.)
- Metivier, Elmer, Boston, Mass. Tooth-brush. No. 1,137,651; Apr. 27; Gaz. vol. 213; p. 1384.
- Metropolitan Sewing Machine Company. (See Wels, John P., assignor.)
- Metten, John F., Philadelphia, Pa. Torston-meter. No. 1,164,839; Dec. 21; Gaz. vol. 221; p. 822.
- Metten, John F., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Steam-power control. No. 1,127,484; Feb. 9; Gaz. vol. 211; p. 329.
- Metten, John F., Philadelphia, Pa., assignor to The Wm. Cramp & Sons Ship & Engine Building Company. Steam-turbine. No. 1,141,473; June 1; Gaz. vol. 215; p. 139.
- Metten, John F., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Condenser. No. 1,149,276; Aug. 10; Gaz. vol. 217; p. 383.
- Metten, John F., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Clutch. No. 1,157,793; Oct. 26; Gaz. vol. 219; p. 980.
- Mettler, Caspar, New Haven, Conn., assignor to Nashua Card, Gummed & Coated Paper Company, Nashua, N. H. Drinking-cup. No. 1,127,793; Feb. 9; Gaz. vol. 211; p. 437.
- Mettler, Caspar, New Haven, Conn., assignor to B. A. Ball, Boston, Mass. Bread-wrapping machine. No. 1,140,522; May 25; Gaz. vol. 214; p. 1095.
- Mettler, Caspar, and G. C. Moore, assignors to The Rowland Machine Company, New Haven, Conn. Dipping-machine. No. 1,166,071; Dec. 28; Gaz. vol. 221; p. 1289.
- Mettler, Charles, assignor to J. R. Geigy S. A., Basel, Switzerland. Mordant-dyeing azo dye. No. 1,157,169; Oct. 19; Gaz. vol. 219; p. 699.
- Mettler, John W., East Millstone, and W. E. Smith, Milltown, assignors to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Reinforced tubular fabric and knitting the same. No. 1,141,971; June 8; Gaz. vol. 215; p. 346.
- Metz, Friedrich R., and E. Hornstein, Mödling, near Vienna, assignor to Firm of Aktiengesellschaft für patentierte Korksteinfabrikation und Korkstein-Bauten vormals Kleiner & Bokmayer, Vienna, Austria-Hungary. Mold for forming blocks of cork. No. 1,139,699; May 18; Gaz. vol. 214; p. 770.
- Metz, Joseph, New York, N. Y. Rail-joint. No. 1,147,258; July 20; Gaz. vol. 216; p. 839.
- Metz, Walter R. (See Drexelius, George W., assignor.)
- Metzler, Theodore, New York, N. Y. Talking-machine. No. 1,137,883; May 4; Gaz. vol. 214; p. 56.
- Metzger, Charles W., et al. (See Kunkle, Harry C., assignor.)
- Metzger, Floyd J. (See Whitaker and Metzger.)
- Metzger, George J., Rochester, N. Y. Ear and finger-nail cleaner. No. 1,138,967; May 11; Gaz. vol. 214; p. 476.
- Metzger, Louis C. F., St. Louis, Mo. Push-button or circuit-closer. No. 1,130,994; Mar. 9; Gaz. vol. 212; p. 435.
- Metzger, Oscar J., et al. (See Kunkle, Harry C., assignor.)
- Metzger, Otto I., Far Rockaway, N. Y. Composition of matter to be used for jewelry, pins, metallic springs, &c. No. 1,149,850; Aug. 10; Gaz. vol. 217; p. 592.
- Metzger, William W., J. A. Altendorf, and C. M. Verrill, Los Angeles, Cal. Non-glare headlight. No. 1,155,600; Oct. 5; Gaz. vol. 219; p. 96.
- Metzler, Anton, Rochester, N. Y. Rotary engine. No. 1,152,034; Aug. 31; Gaz. vol. 217; p. 1513.
- Metzner, Otto, assignor to The Brookwood Pottery Company, Cincinnati, Ohio. Making tile. No. 1,141,134; June 1; Gaz. vol. 215; p. 15.
- Metzroth, William, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,139,890; May 18; Gaz. vol. 214; p. 837.
- Meuler, Louis W., Burlington, Iowa. Antifrost glass device. No. 1,124,778; Jan. 12; Gaz. vol. 210; p. 598.
- Meurling, Ivar, Brooklyn, assignor to Empire Duplex Gin Company, New York, N. Y. Picker for cotton lint. No. 1,123,344; Jan. 5; Gaz. vol. 210; p. 51.
- Meurling, Ivar, Brooklyn, assignor to Empire Duplex Gin Company, New York, N. Y. Roller for roller cotton-gins. No. 1,128,706; Feb. 16; Gaz. vol. 211; p. 802.
- Meusch, Charles C., Chicago, Ill. Combined clothes cleaning, extracting, and drying machine. No. 1,158,527; Nov. 2; Gaz. vol. 220; p. 41.
- Mewly, Alex J. (See Brown and Mewly.)
- Mewborne, Robert G., Louisville, Ky., assignor to The Kentucky Tobacco Product Company. Concentrating nicotine solutions. No. 1,146,014; July 13; Gaz. vol. 216; p. 384.
- Mewborne, Robert G., Louisville, Ky., assignor to The Kentucky Tobacco Product Company. Method and apparatus for extracting nicotine from tobacco materials. No. 1,156,609; Oct. 12; Gaz. vol. 219; p. 472.
- Mewborne, Robert G., Louisville, Ky., assignor to The Kentucky Tobacco Product Company. Method and means for removing foreign material from tobacco scrap. No. 1,164,953; Dec. 21; Gaz. vol. 221; p. 861.
- Meyer, Albert B., Chicago, Ill. Ash-receptacle for furnaces. No. 1,137,158; Apr. 27; Gaz. vol. 213; p. 1211.
- Meyer, Albert P., Aspinwall, assignor to A. S. Davison Company, Pittsburgh, Pa. Furnace-lining. No. 1,160,085; Nov. 9; Gaz. vol. 220; p. 620.
- Meyer, Alfred F., Morton, Ill. Grain-elevator. No. 1,152,371; Aug. 31; Gaz. vol. 217; p. 1631.
- Meyer, Alfred F., assignor to A. F. Meyer Manufacturing Co., Morton, Ill. Combined dump and elevator. No. 1,165,109; Dec. 21; Gaz. vol. 221; p. 917.
- Meyer, Arthur, Berlin, Germany. Trick writing implement. No. 1,153,809; Sept. 14; Gaz. vol. 218; p. 549.
- Meyer, August, et al. (See Fishburne, Edward W., assignor.)
- Meyer, August J., Chicago, Ill., assignor to A. J. Meyer Motor Car Company, Cedarburg, Wis. Vehicle-wheel. No. 1,124,319; Jan. 12; Gaz. vol. 210; p. 432.
- Meyer, Bacharach and Friedhelm. (See Meyer, William K., assignor.)
- Meyer, Cecil J., Arenzville, Ill. Halter. No. 1,124,054; Jan. 5; Gaz. vol. 210; p. 291.
- Meyer, Charles L., Omaha, Nebr. Mold for concrete columns. No. 1,154,993; Sept. 28; Gaz. vol. 218; p. 1019.
- Meyer, Charles R., Dayton, Ohio. Curtain-bracket. No. 1,163,840; Dec. 14; Gaz. vol. 221; p. 433.
- Meyer, Daniel, Morris, Minn. Tractor. No. 1,137,652; Apr. 27; Gaz. vol. 213; p. 1384.
- Meyer, Daniel, Morris, Minn. Machine for harvesting and reducing corn or other growth to silage. No. 1,138,304; May 4; Gaz. vol. 214; p. 204.
- Meyer, Delius, Heinrich, Baden, Germany, assignor, by mesne assignments, to General Electric Company. Alternating-current commutator machinery. No. 1,157,948; Oct. 26; Gaz. vol. 219; p. 1035.
- Meyer, Elmer C., Boonville, Mo. Dough-raiser. No. 1,164,299; Dec. 14; Gaz. vol. 221; p. 591.
- Meyer, Emma R., New York, N. Y. Cooking utensil. No. 1,160,934; Nov. 16; Gaz. vol. 220; p. 974.
- Meyer, Erwin E. A. G., Detroit, Mich., assignor to Morgan & Wright. Treatment of vulcanizable plastics. No. 1,157,887; Oct. 26; Gaz. vol. 219; p. 1014.
- Meyer, Frank, Ouray, Colo. Composition of matter and producing the same. No. 1,129,109; Feb. 23; Gaz. vol. 211; p. 981.
- Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Garment-supporting fixture. No. 1,131,722; Mar. 16; Gaz. vol. 212; p. 720.
- Meyer, Frank W., assignor to Oshkosh Trunk Company, Oshkosh, Wis. Trunk-securing means. No. 1,151,370; Aug. 24; Gaz. vol. 217; p. 1236.
- Meyer, Frank W., and A. Stieb, East St. Louis, Ill. Pressure-motor. No. 1,144,609; June 29; Gaz. vol. 215; p. 1358.
- Meyer, Franz, Uerdingen, Germany, assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Metallurgical furnace. No. 1,162,634; Nov. 30; Gaz. vol. 220; p. 1657.
- Meyer, Franz, Englewood, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Calcining, desulfurizing, and agglomerating ores, &c. No. 1,166,142; Dec. 28; Gaz. vol. 221; p. 1317.
- Meyer, Fred W., Louisville, Ky. Stop and waste box. No. 1,158,528; Nov. 2; Gaz. vol. 220; p. 42.
- Meyer, Fredrick W., Chicago, Ill. Thread-twister. No. 1,128,027; Feb. 9; Gaz. vol. 211; p. 519.
- Meyer, George W., Paxton, Mass. Priming apparatus for automobiles. No. 1,145,255; July 6; Gaz. vol. 216; p. 98.
- Meyer, Gertrude C. (See Balz, Robert J., assignor.)
- Meyer, Gustave H., et al. (See MacRae, John G., assignor.)
- Meyer, Hans J., Altona, Germany. Adjusting device for pattern-cylinders of printing-machines. No. 1,159,243; Nov. 2; Gaz. vol. 220; p. 290.

Alphabetical list of patentees—Continued.

- Meyer, Henry F. W., Washington, D. C. Sanitary seat-cover. No. 1,155,260; Sept. 28; Gaz. vol. 218; p. 1108.
- Meyer, Henry T. C., Detroit, Mich. Chain-engaging tool. No. 1,140,757; May 25; Gaz. vol. 214; p. 1174.
- Meyer, Herman, and M. Eberhardt, assignors to The Pullman Company, Chicago, Ill. Carriage for pneumatic hammers. No. 1,160,636; Nov. 16; Gaz. vol. 220; p. 870.
- Meyer, Israel, Seattle, Wash. Lawn-mower grinder. No. 1,154,712; Sept. 28; Gaz. vol. 218; p. 923.
- Meyer, Johan L. E., assignor to Automatic Electric Company, Chicago, Ill. Telephone trunk-release system. No. 1,161,783; Nov. 23; Gaz. vol. 220; p. 1319.
- Meyer, John T., Minster, Ohio. Spoon. No. 1,144,490; June 29; Gaz. vol. 215; p. 1318.
- Meyer, Leroy E., Akron, Ohio. Sole for shoes. No. 1,137,159; Apr. 27; Gaz. vol. 213; p. 1212.
- Meyer, Ludwig F., Cleveland, Ohio. Ratchet-wrench. No. 1,161,064; Nov. 23; Gaz. vol. 220; p. 1065.
- Meyer, Maximilian C., Brooklyn, N. Y. Memorandum-ring. No. 1,130,917; Mar. 9; Gaz. vol. 212; p. 409.
- Meyer, Otto, North Bergen, N. J. Egg-tester. No. 1,127,794; Feb. 9; Gaz. vol. 211; p. 437.
- Meyer, Peter, Cologne-Nippes, Germany. Apparatus for printing, registering, and issuing tickets. No. 1,143,424; June 15; Gaz. vol. 215; p. 898.
- Meyer, Peter, Newark, N. J. Saw-clamp. No. 1,159,597; Nov. 9; Gaz. vol. 220; p. 447.
- Meyer, Peter J., Paterson, N. J. Fire-escape. No. 1,123,776; Jan. 5; Gaz. vol. 210; p. 198.
- Meyer, Ralph J., Grand Junction, Colo. Sanitary milk-bucket strainer. No. 1,163,940; Dec. 14; Gaz. vol. 221; p. 468.
- Meyer, Ray J. (See Cooper, Lee, and Meyer.)
- Meyer, Ray J. (See Lee, Cooper, and Meyer.)
- Meyer, Richard E., Detroit, Mich. Rotary-valve gas-engine. No. 1,125,586; Jan. 19; Gaz. vol. 210; p. 919.
- Meyer, Robert, Mülheim-Ruhr, Germany, assignor, by mesne assignments, to C. P. Coleman and G. M. P. Murphy, receivers. Automatic plate-valve. (Reissue.) No. 1,399,1; Oct. 12; Gaz. vol. 219; p. 565.
- Meyer, Firm of Rud. O. (See Max-Kretschmer, Gottfried R., assignor.)
- Meyer & Wenthe. (See Wenthe, Herman H., assignor.)
- Meyer, William. (See Crump, Robert B., assignor.)
- Meyer, William. (See Sonderegger, Leo, assignor.)
- Meyer, William, Chicago, Ill. X-ray-control device. No. 1,161,238; Nov. 23; Gaz. vol. 220; p. 1129.
- Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Inseam-trimming machine. No. 1,154,713; Sept. 28; Gaz. vol. 218; p. 923.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Inseam shoe-sewing machine. No. 1,160,935; Nov. 16; Gaz. vol. 220; p. 975.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Inseam shoe-sewing machine. No. 1,160,936; Nov. 16; Gaz. vol. 220; p. 975.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Friction-clutch. No. 1,165,799; Dec. 28; Gaz. vol. 221; p. 1196.
- Meyer, William K., Brooklyn, assignor to Meyer, Bacharach and Friedheim, New York, N. Y. Four-in-hand scarf or necktie. No. 1,127,485; Feb. 9; Gaz. vol. 211; p. 329.
- Meyers, Fredrick W., Chicago, Ill. Rope-clamp. No. 1,149,385; Aug. 10; Gaz. vol. 217; p. 424.
- Meyers, George W., Chicago, Ill. Elevator-despatcher. No. 1,156,610; Oct. 12; Gaz. vol. 219; p. 472.
- Meyers, George W., Chicago, Ill. Floor-treating machine. No. 1,164,740; Dec. 21; Gaz. vol. 221; p. 786.
- Meyers, Harry R. and W. R., New York, N. Y. Ball-playing, exercising, and practising apparatus. No. 1,152,748; Sept. 7; Gaz. vol. 218; p. 135.
- Meyers, Jacob E., assignor of one-third to E. Bowman, one-sixth to W. Townsend, and one-sixth to C. B. Townsend, Remington, Ind. Rail-joint. No. 1,139,049; May 11; Gaz. vol. 214; p. 506.
- Meyers, Louis, Philadelphia, Pa. Toy lung-exerciser. No. 1,152,198; Aug. 31; Gaz. vol. 217; p. 1569.
- Meyers, Louis A., Sauk Center, Minn. Automatic switch for controlling lights. No. 1,135,311; Apr. 13; Gaz. vol. 213; p. 479.
- Meyers, Nicholas, assignor to P. C. Meyers, Buffalo, N. Y. Machine for making printing-plates. No. 1,147,335; July 20; Gaz. vol. 216; p. 864.
- Meyers, Peter C. (See Meyers, Nicholas, assignor.)
- Meyers, Solomon, Seattle, Wash., assignor, by mesne assignments, to The N. J. Rich Company, Cleveland, Ohio. Muffler. No. 1,144,858; June 29; Gaz. vol. 215; p. 1445.
- Meyers, Willard F., Long Island City, N. Y. Stone-saw. No. 1,156,166; Oct. 12; Gaz. vol. 219; p. 318.
- Meyers, Willard F., Long Island City, N. Y. Stone-saw. No. 1,163,356; Dec. 7; Gaz. vol. 221; p. 218.
- Meyers, William H., St. Paul, Minn. Extensible support. No. 1,145,606; July 6; Gaz. vol. 216; p. 220.
- Meyers, William R. (See Meyers, Harry R. and W. R.)
- Meylan, Jules E., East Adelaide, South Australia, Australia. Antifriction-bearing for vehicle-wheels. No. 1,128,617; Feb. 16; Gaz. vol. 211; p. 772.
- Meyrowitz, Emil B., New York, N. Y., assignor to General Optical Company, Inc. Test or trial lens. No. 1,148,608; Aug. 3; Gaz. vol. 217; p. 45.
- Meyrowitz, Emil B., New York, N. Y., assignor to General Optical Company, Inc. Object-carrier for perimeters. No. 1,161,502; Nov. 23; Gaz. vol. 220; p. 1222.
- Meyrowitz, Emil B., New York, N. Y., assignor to General Optical Company, Inc. Eyeglass-mounting. No. 1,164,300; Dec. 14; Gaz. vol. 221; p. 592.
- Mezger, Charles A., New York, N. Y. Spark-plug. No. 1,134,345; Apr. 6; Gaz. vol. 213; p. 96.
- Mezzatesta, Gaspar, New York, N. Y. Aeroplane-balance. No. 1,140,180; May 18; Gaz. vol. 214; p. 940.
- Miano, Nicholas J. (See Alberti and Miano.)
- Miceli, Angelo, assignor to Angelo Miceli Unsinkable Vessel Company, Boston, Mass. Floating device for vessels. No. 1,154,195; Sept. 21; Gaz. vol. 218; p. 716.
- Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Cultivator. No. 1,141,135; June 1; Gaz. vol. 215; p. 15.
- Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Clutch mechanism. No. 1,143,221; June 15; Gaz. vol. 215; p. 826.
- Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Disk cultivator. No. 1,144,151; June 22; Gaz. vol. 215; p. 1174.
- Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Harrow. No. 1,156,611; Oct. 12; Gaz. vol. 219; p. 473.
- Michael, Harry M. (See Briggs and Michael.)
- Michael, Irvin D. (See Johnson and Michael.)
- Michael, Jacob A., Laurel Hill, Va. Combined brace and cushioning device for vehicles. No. 1,128,996; Feb. 16; Gaz. vol. 211; p. 905.
- Michael, Max, assignor to Schubert & Salzer Maschinenfabrik, Aktiengesellschaft, Chemnitz, Germany. Straight hosiery-frame. No. 1,138,391; May 4; Gaz. vol. 214; p. 237.
- Michael, Walter, Oakland, assignor to Union Iron Works Co., San Francisco, Cal. Mechanism for insuring understanding of signals from bridge to engine-room. No. 1,144,491; June 29; Gaz. vol. 215; p. 1319.
- Michael, William C., Claremont, N. H. Calculating-machine. No. 1,147,034; July 20; Gaz. vol. 216; p. 761.
- Michaels, Ernest, et al. (See Platner, David F., assignor.)
- Michaels, Joseph, New York, N. Y. Combination-garment. No. 1,138,681; May 11; Gaz. vol. 214; p. 374.
- Michaels, Philip. (See Hoke and Michaels.)
- Michaels, Raymond C. (See Wise and Michaels.)
- Michaelsen, Charles O., Omaha, Nebr. Mineral concentrator. No. 1,126,818; Feb. 2; Gaz. vol. 211; p. 55.
- Michaelsen, Charles O., Omaha, Nebr. Ore classifier and concentrator. No. 1,126,819; Feb. 2; Gaz. vol. 211; p. 55.
- Michaelsen, Charles O., Omaha, Nebr. Rotary classifier. No. 1,140,700; May 25; Gaz. vol. 214; p. 1154.
- Michaelsen, Charles O., Omaha, Nebr. Ore-grinding machine. No. 1,158,259; Oct. 26; Gaz. vol. 219; p. 1143.
- Michaelsen, Claus P., Penawawa, assignor of two-thirds to J. N. Pickrell, Colfax, Wash. Pitman. No. 1,125,863; Jan. 19; Gaz. vol. 210; p. 1018.
- Michalis, Clarence G., East Orange, and M. Münzner, Arlington, N. J., assignors to The Torsion Balance Company, New York, N. Y. Percentage-scale. No. 1,136,694; Apr. 20; Gaz. vol. 213; p. 1007.
- Michaud, Georges, and E. Delasson, Montreuil, France. Electrolytically refining tin. No. 1,124,315; Jan. 12; Gaz. vol. 210; p. 431.
- Michaud, Onesime E., St. Louis, Mo. Internal-combustion motor. No. 1,132,278; Mar. 16; Gaz. vol. 212; p. 925.
- Michaud, Onesime E., St. Louis, Mo. Journal-bearing. No. 1,132,279; Mar. 16; Gaz. vol. 212; p. 926.
- Michaud, Onesime E., St. Louis, Mo. Antifriction-bearing. No. 1,165,432; Dec. 28; Gaz. vol. 221; p. 1067.
- Michaud, Onesime E., St. Louis, Mo. Roller-bearing. No. 1,165,433; Dec. 28; Gaz. vol. 221; p. 1068.
- Michaud, Onesime E., St. Louis, Mo. Antifriction-bearing. No. 1,165,434; Dec. 28; Gaz. vol. 221; p. 1068.
- Michaud, Oscar, Salem, Mass. Tire. No. 1,149,935; Aug. 10; Gaz. vol. 217; p. 622.
- Michel, Benjamin A., New Orleans, La. Refrigerating apparatus. No. 1,155,363; Oct. 5; Gaz. vol. 219; p. 13.
- Michel, John, New York, N. Y. Attachment for ink-receptacles. No. 1,144,910; June 29; Gaz. vol. 215; p. 1462.
- Michel, William P., New York, N. Y. Cabinet for meat and other food products. No. 1,132,022; Mar. 16; Gaz. vol. 212; p. 831.
- Michelin, André J., Clermont-Ferrand, France. Wheel-tire. No. 1,129,706; Feb. 23; Gaz. vol. 211; p. 1186.
- Michell, Anthony G. M., Melbourne, and H. C. Newton, Kew, near Melbourne, Victoria, Australia. Hydraulic mechanism for transmission of power. No. 1,141,812; June 1; Gaz. vol. 215; p. 254.
- Michener, John H., Jr., New York, N. Y. Distributing mechanism. No. 1,139,133; May 11; Gaz. vol. 214; p. 536.
- Michie, Arthur, assignor to Shea & Donnelly Company, Inc., Bedford, Ind. Saw-blade holder. No. 1,127,062; Feb. 2; Gaz. vol. 211; p. 140.
- Michigan Cash Register Company. (See Cleal, Joseph P., assignor.)

Alphabetical list of patentees—Continued.

- Michigan Safety Furnace Pipe Company. (See Stearns, Isaac, assignor.)
- Michigan Stamping Company. (See Cope, Henry P., assignor.)
- Michigan Stove Company, The. (See Keep, William J., assignor.)
- Michigan Stove Company, The. (See Maul, Henry C., assignor.)
- Michigan Stove Company, The. (See Pomaville, Cephres R., assignor.)
- Michod, Charles L., Chicago, Ill. Post. No. 1,142,046; June 8; Gaz. vol. 215; p. 374.
- Michod, Charles L., Chicago, Ill. Metal pole. No. 1,156,422; Oct. 12; Gaz. vol. 219; p. 407.
- Michod, Charles L., Chicago Heights, Ill. Fence-post. No. 1,159,856; Nov. 9; Gaz. vol. 220; p. 542.
- Miclaus, Alexander, Jr., Washington, D. C. Automatic gun. No. 1,136,695; Apr. 20; Gaz. vol. 213; p. 1008.
- Miclaus, Alexander, Jr., Alliance, Ohio. Gun-mount. No. 1,142,602; June 8; Gaz. vol. 215; p. 569.
- Micon, David, Chicago, Ill. Mattress. No. 1,123,345; Jan. 5; Gaz. vol. 210; p. 51.
- Middaugh, Carlisle H., Lawrenceville, Pa. Classifying-cabinet. No. 1,135,038; Apr. 13; Gaz. vol. 213; p. 386.
- Middaugh, Horace, Seattle, Wash. Boat. No. 1,128,707; Feb. 16; Gaz. vol. 211; p. 803.
- Middleditch, Lyman, New York, N. Y. Feed mechanism for printing-presses and other machines. No. 1,151,808; Aug. 31; Gaz. vol. 217; p. 1435.
- Middleditch, Lyman, New York, N. Y. Plate-clamp. No. 1,164,954; Dec. 21; Gaz. vol. 221; p. 862.
- Middlekauff, Peter D. (See Appleby, John F., assignor.)
- Middlestate, Frank A., Edison, Wash. Conveying and separating apparatus. No. 1,150,286; Aug. 17; Gaz. vol. 217; p. 810.
- Middleton, George, Providence, R. I. Expansive plug. No. 1,146,944; July 20; Gaz. vol. 216; p. 729.
- Middleton, George, Providence, R. I. Water-closet gage. No. 1,157,567; Oct. 19; Gaz. vol. 219; p. 838.
- Middleton, John H. (See Jennings, Marvin B., assignor.)
- Middleton, John M., Savannah, Ga. Rule. No. 1,160,432; Nov. 16; Gaz. vol. 220; p. 795.
- Middleton, Richard. (See Carpenter and Middleton.)
- Middleton, William R. (See Jean, Robert E., assignor.)
- Middletown Machine Company, The. (See Wilson, Harry T., assignor.)
- Midgley, Albert H. (See Vandervell and Midgley.)
- Midgley, Albert H., and C. A. Vandervell, Acton Vale, England. Self-starter for internal-combustion engines. No. 1,159,061; Nov. 2; Gaz. vol. 220; p. 225.
- Midgley, Herbert, Worcester, Mass. Hand stripping-card. No. 1,127,486; Feb. 9; Gaz. vol. 211; p. 329.
- Midgley, Thomas, Worthington, Ohio, assignor to Morgan & Wright, Detroit, Mich. Elastic vehicle-tire. No. 1,152,830; Sept. 7; Gaz. vol. 218; p. 166.
- Midgley, Thomas, Hartford, Conn., assignor to The Hartford Rubber Works Company. Apparatus for wrapping pneumatic-tire casings. No. 1,161,946; Nov. 30; Gaz. vol. 220; p. 1423.
- Midgley, Thomas, Worthington, Ohio, assignor to Morgan & Wright, Detroit, Mich. Tire-building machine. No. 1,161,947; Nov. 30; Gaz. vol. 220; p. 1424.
- Midgley, Thomas, Worthington, Ohio, assignor to Morgan & Wright, Detroit, Mich. Tire-building machine. No. 1,161,948; Nov. 30; Gaz. vol. 220; p. 1424.
- Midgley, Thomas, Worthington, Ohio, assignor to Morgan & Wright, Detroit, Mich. Tire-building machine. No. 1,161,949; Nov. 30; Gaz. vol. 220; p. 1425.
- Midgley, Thomas, Worthington, Ohio, assignor to Morgan & Wright, Detroit, Mich. Fabric-stretching machine. No. 1,161,950; Nov. 30; Gaz. vol. 220; p. 1425.
- Midgley, Thomas, assignor to Morgan & Wright, Detroit, Mich. Demountable rim for vehicle-tires. No. 1,162,379; Nov. 30; Gaz. vol. 220; p. 1572.
- Midgley, Thomas, Worthington, Ohio, assignor to Morgan & Wright, Detroit, Mich. Hammer for fixing tire-treads. No. 1,162,380; Nov. 30; Gaz. vol. 220; p. 1573.
- Midgley, Thomas, Sr., assignor to The Midgley Tire & Rubber Company, Lancaster, Ohio. Tire. No. 1,159,244; Nov. 2; Gaz. vol. 220; p. 291.
- Midgley, Thomas, Sr., and T. Jr., Worthington, Ohio. Collapsible core. No. 1,157,117; Oct. 19; Gaz. vol. 219; p. 681.
- Midgley, Thomas, Sr., and T. Jr., Worthington, Ohio. Constructing collapsible cores. No. 1,157,118; Oct. 19; Gaz. vol. 219; p. 682.
- Midgley, Thomas, Jr., Worthington, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Indicating mechanism. No. 1,149,386; Aug. 10; Gaz. vol. 217; p. 424.
- Midgley Tire & Rubber Company, The. (See Midgley, Thomas, Sr., assignor.)
- Midland Supply Co. (See Briegel and Griswold, assignors.)
- Miehle Printing Press & Manufacturing Company, The. (See Dudley, Edward F., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Henderson, Carl, assignor.)
- Miehle Printing Press & Manufacturing Company. (See Hodgman, Willis K., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Mead, Ellis H., assignor.)
- Miehle Printing Press & Manufacturing Company, The. (See Rich, Frank E., assignor.)
- Miehle Printing Press & Manufacturing Company, The. (See Robertson, Charles J., assignor.)
- Miehle Printing Press & Manufacturing Company, The. (See Stevens, Burt D., assignor.)
- Miehle, Robert, assignor to Continental & Commercial Trust & Savings Bank, trustee, Chicago, Ill. Application of power to reciprocating-bed printing-presses. No. 1,143,425; June 15; Gaz. vol. 215; p. 898.
- Miehle, Robert, assignor to Continental & Commercial Trust & Savings Bank, trustee, Chicago, Ill. Driving mechanism for printing-presses. No. 1,157,888; Oct. 26; Gaz. vol. 219; p. 1014.
- Miehling, Rudolph. (See Darby, Norman C., assignor.)
- Mielcarek, Wladyslaw, Chester, Pa. Safety device for elevators. No. 1,131,152; Mar. 9; Gaz. vol. 212; p. 488.
- Mier, George B. (See Halberg, Mier, and Hodges.)
- Miers, Oscar S., and E. E. Gensler, Appleton, Wis. Rocking and rocking-arresting device. No. 1,151,212; Aug. 24; Gaz. vol. 217; p. 1186.
- Miesen, Clarence F., Carrollton, Ky. Folding crate. No. 1,127,909; Feb. 9; Gaz. vol. 211; p. 478.
- Miesner, Martin D., Altenburg, Mo. Lawn-swing. No. 1,128,708; Feb. 16; Gaz. vol. 211; p. 803.
- Miesner, Martin D., Altenburg, Mo. Swing. No. 1,128,709; Feb. 16; Gaz. vol. 211; p. 803.
- Miezejewski, Frank B., Adams, Mass. Bullet-deflector for cannons. No. 1,151,116; Aug. 24; Gaz. vol. 217; p. 1151.
- Migchelbrink, John T., assignor of one-half to G. H. Leonard, Cleveland, Ohio. Water-heater. No. 1,159,784; Nov. 9; Gaz. vol. 220; p. 516.
- Might, Lincoln, Battleford, Saskatchewan, Canada. Automatic windmill. No. 1,154,930; Sept. 28; Gaz. vol. 218; p. 997.
- Might, Lincoln, Gravenhurst, Ontario, Canada. Rotary engine. No. 1,161,503; Nov. 23; Gaz. vol. 220; p. 1223.
- Mihelich, Anton, Lowell, Ariz. Cuspidor. No. 1,166,236; Dec. 28; Gaz. vol. 221; p. 1353.
- Mikkelsen, Edward M., Chicago, Ill. Towel-cabinet. No. 1,156,917; Oct. 19; Gaz. vol. 219; p. 610.
- Mikkelsen, Harry, Chicago, Ill., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,150,287; Aug. 17; Gaz. vol. 217; p. 810.
- Miklos, Alex, Columbus, Ohio. Ice-pick. No. 1,133,052; Mar. 23; Gaz. vol. 212; p. 1257.
- Miksch, Edward, Washington, Iowa. Derrick for hay-wagons. No. 1,165,015; Dec. 21; Gaz. vol. 221; p. 883.
- Milano, Silvestro, New York, N. Y. Burglar-alarm. No. 1,163,164; Dec. 7; Gaz. vol. 221; p. 150.
- Milbert, Benjamin, Chicago, Ill. Grain-door. No. 1,165,694; Dec. 28; Gaz. vol. 221; p. 1160.
- Milbery, John W. (See Fager and Milbery.)
- Milburn, Charles F., Chattanooga, Tenn. Combination stiff and drop tongue gear for wagons. No. 1,165,987; Dec. 28; Gaz. vol. 221; p. 1261.
- Milcoff, Joseph E., Leedsdale, Pa. Wrench. No. 1,140,276; May 18; Gaz. vol. 214; p. 971.
- Milrentz, Arnold L., St. Louis, Mo. Glass-cutting machine. No. 1,162,653; Sept. 7; Gaz. vol. 218; p. 101.
- Miles, Charles A., Baxter Springs, Kans. Transmission-gearing. No. 1,155,601; Oct. 5; Gaz. vol. 219; p. 96.
- Miles, Don D., Jr., San Francisco, Cal. Valve. No. 1,155,602; Oct. 5; Gaz. vol. 219; p. 96.
- Miles, Don D., Jr., San Francisco, Cal. Starting device for internal-combustion engines. No. 1,160,521; Nov. 16; Gaz. vol. 220; p. 827.
- Miles, Don D., Jr., assignor to B. Goodwin, San Francisco, Cal. Convertible motor and pump. No. 1,149,851; Aug. 10; Gaz. vol. 217; p. 592.
- Miles, Elias A., Tarkio, Mont. Stump-puller. No. 1,126,820; Feb. 2; Gaz. vol. 211; p. 56.
- Miles, Frank W., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Enameling-machine. No. 1,146,507; July 13; Gaz. vol. 216; p. 559.
- Miles, Frank W., assignor to Hydraulic Press Brick Company, St. Louis, Mo. Brick-kiln. No. 1,159,062; Nov. 2; Gaz. vol. 220; p. 225.
- Miles, Frederick B., assignor of one-half to W. W. Smith, Wilkinsburg, Pa. Metallic tie for railways and fastening device therefor. No. 1,129,887; Mar. 2; Gaz. vol. 212; p. 19.
- Miles, George W., Belmont, Mass., assignor to himself, trustee. Purifying sewage and recovering organic matter therefrom. No. 1,134,280; Apr. 6; Gaz. vol. 213; p. 72.
- Miles, John J., and J. A. Williams, Corpus Christi, Tex. Shirt. No. 1,144,223; June 22; Gaz. vol. 215; p. 1199.
- Miles, Joseph C., Madera, Pa. Combined table and box. No. 1,128,811; Feb. 16; Gaz. vol. 211; p. 839.
- Miles, Lee L., and M. C. Fullenlove, assignors to Helical Shock Absorber Company, Louisville, Ky. Shock-absorber. No. 1,159,697; Nov. 9; Gaz. vol. 220; p. 482.
- Miles, William J., Denver, Colo. Lever-lock for automobiles. No. 1,166,143; Dec. 28; Gaz. vol. 221; p. 1318.
- Miley, Luke A. (See Taylor and Miley.)

Alphabetical list of patentees—Continued.

- Militaire Auto Company, The. (See Lake and Beyerle, assignors.)
- Mill, Anton. (See McGlaughlin and Mill.)
- Millan, James, Waycross, Ga. Door-sheave. No. 1,150,288; Aug. 17; Gaz. vol. 217; p. 810.
- Millar, Charles W., Carnegie, Pa. Dental inlay-holder. No. 1,124,498; Jan. 12; Gaz. vol. 210; p. 497.
- Millar, James D., Milwaukee, Wis., assignor to E. F. McCool, Victor, Colo. Crushing-mill. No. 1,139,790; May 18; Gaz. vol. 214; p. 801.
- Millard, William, New York, N. Y. Dispensing apparatus. No. 1,157,645; Oct. 19; Gaz. vol. 219; p. 863.
- Millard, William, New York, N. Y. Multiple-receiver dispensing apparatus. No. 1,159,245; Nov. 2; Gaz. vol. 220; p. 291.
- Millbury Steel Foundry Company. (See Brierly and Scanlon, assignors.)
- Millen, John W., Forest Hills, N. Y. Display-cabinet. No. 1,162,209; Nov. 30; Gaz. vol. 220; p. 1546.
- Miller, Albert M. (See Evans, John S., assignor.)
- Miller, Andrew E., Louisville, Miss. Mechanical movement. No. 1,131,851; Mar. 16; Gaz. vol. 212; p. 769.
- Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,133,873; Mar. 30; Gaz. vol. 212; p. 1586.
- Miller, Andrew H., Detroit, Mich. Electric switch for electric lamps and the like. No. 1,150,001; Aug. 10; Gaz. vol. 217; p. 646.
- Miller, Anthony, and H. Rumpel, Milwaukee, Wis. Christmas-tree stand or holder. No. 1,124,780; Jan. 12; Gaz. vol. 210; p. 598.
- Miller, Anthony E., Detroit, Mich. Propeller. No. 1,154,649; Sept. 28; Gaz. vol. 218; p. 902.
- Miller, Anvy H., Minburn, Iowa. Grading and leveling machine. No. 1,142,114; June 8; Gaz. vol. 215; p. 399.
- Miller, Arlington H. J., Easton, Pa. Gage. No. 1,129,707; Feb. 23; Gaz. vol. 211; p. 1187.
- Miller, Benjamin A., West Hazleton, Pa. Carpenter's tool. No. 1,143,426; June 15; Gaz. vol. 215; p. 899.
- Miller, Benjamin D., Wooster, Ohio, assignor of fifty-five one-hundredths to E. S. Landes, W. B. Bryson, and P. C. Given and five one-hundredths to G. H. Kepple. Electric-alarm mail-box. No. 1,157,949; Oct. 26; Gaz. vol. 219; p. 1035.
- Miller, Brinton, German Valley, Ill. Signal-switch. No. 1,159,521; Nov. 9; Gaz. vol. 220; p. 420.
- Miller Cabinet Company. (See Miller and Raab, assignors.)
- Miller, Calvin, Bluffton, Ohio. Gate. No. 1,153,560; Sept. 14; Gaz. vol. 218; p. 464.
- Miller, Carl E., et al. (See Keltner, George R., assignor.)
- Miller, Carl E. M., New York, N. Y. Lifting-truck. No. 1,139,891; May 18; Gaz. vol. 214; p. 837.
- Miller, Carl G., Mount Clemens, Mich. Strainer. No. 1,140,758; May 25; Gaz. vol. 214; p. 1174.
- Miller, Carmi A., assignor of one-half to J. F. Miller, Spring Valley, Ill. Caster-spring. No. 1,144,771; June 29; Gaz. vol. 215; p. 1415.
- Miller, Carmi A., assignor of one-half to J. F. Miller, Spring Valley, Ill. Muffler. No. 1,153,097; Sept. 7; Gaz. vol. 218; p. 260.
- Miller, Charles. (See Mahr and Miller.)
- Miller, Charles, Albany, N. Y. Locomotive-boiler. No. 1,164,741; Dec. 21; Gaz. vol. 221; p. 787.
- Miller, Charles A., Marianna, Fla. Revolving map and table-top. No. 1,141,070; May 25; Gaz. vol. 214; p. 1283.
- Miller, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock. No. 1,164,378; Dec. 14; Gaz. vol. 221; p. 620.
- Miller, Charles D., Quincy, assignor of one-half to S. Best, Adams county, Ill. Wheel. No. 1,145,842; July 6; Gaz. vol. 216; p. 304.
- Miller, Charles E., Anderson, Ind. Making tires. No. 1,128,480; Feb. 16; Gaz. vol. 211; p. 725.
- Miller, Charles E., Anderson, Ind. Vulcanizing apparatus. No. 1,142,526; June 8; Gaz. vol. 215; p. 544.
- Miller, Charles E., Bellingham, Wash. Saw-set. No. 1,131,407; Mar. 9; Gaz. vol. 212; p. 577.
- Miller, Charles E., Pittsburgh, Pa. Insulator-support. No. 1,143,983; June 22; Gaz. vol. 215; p. 1112.
- Miller, Charles E., Chicago, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Fire-arch. No. 1,138,043; May 4; Gaz. vol. 214; p. 112.
- Miller, Charles E., Chicago, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-furnace arch. No. 1,138,044; May 4; Gaz. vol. 214; p. 112.
- Miller, Charles E., Chicago, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-furnace arch. No. 1,138,053; May 4; Gaz. vol. 214; p. 116.
- Miller, Charles G. (See Ludwick, William F., assignor.)
- Miller, Charles H., Libertyville, Iowa. Traction-wheel. No. 1,149,936; Aug. 10; Gaz. vol. 217; p. 622.
- Miller, Charles J. (See Burkhardt, William S., assignor.)
- Miller, Charles J., Philadelphia, Pa. Ironing-pad. No. 1,148,113; July 27; Gaz. vol. 216; p. 1168.
- Miller, Charles J., Minneapolis, Minn., assignor, by mesne assignments, to The Lamson Company, Boston, Mass. Package-carrier. No. 1,130,530; Mar. 2; Gaz. vol. 212; p. 243.
- Miller, Charles J., Minneapolis, Minn., assignor, by mesne assignments, to The Lamson Company, Boston, Mass. Store-service apparatus. No. 1,146,192; July 13; Gaz. vol. 216; p. 446.
- Miller, Charles K., Waxahatchie, Tex., assignor to The Moline Plow Company, Moline, Ill. Moldboard for plows. No. 1,159,063; Nov. 2; Gaz. vol. 220; p. 225.
- Miller, Charles L., Norwood, and F. B. Freeman, Cincinnati, Ohio, assignors to United Shoe Machinery Company, Paterson, N. J. Bobbin case and tension. No. 1,157,245; Oct. 19; Gaz. vol. 219; p. 727.
- Miller, Charles L., Oakland, and L. J. Toffelmier, assignors to Junior Monarch Hay Press Co., San Leandro, Cal. Baling-press. No. 1,163,250; Dec. 7; Gaz. vol. 221; p. 181.
- Miller, Charles R., Whitesboro, Tex. Explosion-engine starter. No. 1,133,737; Mar. 30; Gaz. vol. 212; p. 1537.
- Miller, Charles R., Whitesboro, Tex. Cake-stripping machine. No. 1,150,873; Aug. 24; Gaz. vol. 217; p. 1070.
- Miller, Charles S., Massillon, Ohio. Culinary vessel. No. 1,126,821; Feb. 2; Gaz. vol. 211; p. 56.
- Miller, Charles T., Menard, Ill. Cushion-wheel. No. 1,156,242; Oct. 12; Gaz. vol. 219; p. 342.
- Miller, Charles W., et al. (See Wood, Charles R., assignor.)
- Miller, Christ, Westbrook, Minn. Safety-envelop. No. 1,153,940; Sept. 21; Gaz. vol. 218; p. 630.
- Miller, Christian, New York, N. Y., assignor to Edwards & Co. Signal-transmitter. No. 1,160,188; Nov. 16; Gaz. vol. 220; p. 711.
- Miller, Christian R. (See Bowman, Elhanan, assignor.)
- Miller, Clarence D., and P. D., and J. O. Gadberry, Carthage, Mo. Spring-bed construction. No. 1,139,050; May 11; Gaz. vol. 214; p. 506.
- Miller, Clarence D. and P. D., and J. O. Gadberry, Carthage, Mo. Resilient bed. No. 1,139,892; May 18; Gaz. vol. 214; p. 837.
- Miller, Clarence S., assignor to Ketterlinus Lithographic Manufacturing Company, Philadelphia, Pa. Display device. No. 1,128,028; Feb. 9; Gaz. vol. 211; p. 519.
- Miller, Claude E., Bigspring, Nebr. Eyeglass. No. 1,124,781; Jan. 12; Gaz. vol. 210; p. 598.
- Miller, Clifford G., assignor to The Underseller Company, New York, N. Y. Display apparatus. No. 1,150,053; Aug. 17; Gaz. vol. 217; p. 724.
- Miller, Clinton D., Washington, D. C. Engine-hood cover. (Reissue.) No. 13,916; May 11; Gaz. vol. 214; p. 654.
- Miller, Constantine G., Chicago, Ill., assignor to The Meaker Company, Amakamating or plating machine. No. 1,128,481; Feb. 16; Gaz. vol. 211; p. 725.
- Miller, Cosby D., St. Joseph, Mo. Automatic fuel-feeder for internal-combustion engines. No. 1,147,336; July 20; Gaz. vol. 216; p. 865.
- Miller, Cosby D., St. Joseph, Mo., assignor to Detroit Motor Appliance Company, Detroit, Mich. Thermost-motor. No. 1,157,889; Oct. 26; Gaz. vol. 219; p. 1014.
- Miller, Daniel H., Council Bluffs, Iowa. Veterinarian's obstetrical instrument. No. 1,130,098; Mar. 2; Gaz. vol. 212; p. 89.
- Miller, Dicey, Bennington, Vt. Combination sad-iron heater and cooking utensil. No. 1,154,714; Sept. 28; Gaz. vol. 218; p. 924.
- Miller, Du Brul and Peters Manufacturing Co., The. (See Du Brul, Napoleon and A., assignors.)
- Miller, Du Brul and Peters Manufacturing Co., The. (See Rosewarne, Richard E., assignor.)
- Miller, Earl O., et al. (See Down, Ernest U., assignor.)
- Miller, Earnest, Kokomo, Ind. Felly-tightener. No. 1,142,903; June 15; Gaz. vol. 215; p. 712.
- Miller, Edgar G., Maroa, and F. D. Miller, Clinton, Ill. Hog-crate. No. 1,147,879; July 27; Gaz. vol. 216; p. 1083.
- Miller, Edward, Columbus, Ohio. Glass-furnace. No. 1,135,973; Apr. 13; Gaz. vol. 213; p. 712.
- Miller, Edward A., Ionia, Mich. Lock-strike. No. 1,130,754; Mar. 9; Gaz. vol. 212; p. 352.
- Miller, Edward G., Charles City, Iowa. Time-controlled shifting mechanism. No. 1,123,346; Jan. 5; Gaz. vol. 210; p. 52.
- Miller, Edwin L. (See Mulder, Peter W., assignor.)
- Miller, Edwin S., Buffalo, N. Y. Wrench. No. 1,137,884; May 4; Gaz. vol. 214; p. 56.
- Miller Electric Switch Company, The. (See McEldowney, Wilber E., assignor.)
- Miller, Francis H., Canton, Ohio. Automatic train-stop. No. 1,129,708; Feb. 23; Gaz. vol. 211; p. 1187.
- Miller, Frank A., Montgomery, Ala. Rotary explosive-engine. No. 1,153,169; Sept. 7; Gaz. vol. 218; p. 282.
- Miller, Frank B., Norwalk, assignor to The Atwood Automobile Company, Toledo, Ohio. Locking means for control-levers. No. 1,136,155; Apr. 20; Gaz. vol. 213; p. 816.
- Miller, Frank B., assignor to The Union Cutlery & Hardware Company, Unionville, Conn. Level. No. 1,159,522; Nov. 9; Gaz. vol. 220; p. 420.
- Miller, Frank E., New York, N. Y. Change-speed driving mechanism. No. 1,156,848; Oct. 12; Gaz. vol. 219; p. 556.

Alphabetical list of patentees—Continued.

- Miller, Frank E., New York, N. Y. Measuring instrument. No. 1,161,504; Nov. 23; Gaz. vol. 220; p. 1223.
- Miller, Frank J. (See Noll and Miller.)
- Miller, Frank L., assignor to J. T. Callanan, Parkersburg, W. Va. Retort-door-securing mechanism. No. 1,144,152; June 22; Gaz. vol. 215; p. 1174.
- Miller, Frank S., assignor to Harris Air Pump Company, Indianapolis, Ind. Air-lift-pump booster. No. 1,157,998; Oct. 26; Gaz. vol. 219; p. 1051.
- Miller, Frank W., assignor of one-half to C. D. Bauers, Chicago, Ill. Heating apparatus. No. 1,135,039; Apr. 13; Gaz. vol. 213; p. 387.
- Miller, Franklin C., Easton, Pa. Tire-holder. No. 1,136,547; Apr. 20; Gaz. vol. 213; p. 956.
- Miller, Franklin C., Easton, Pa. Tire-holder. No. 1,150,692; Aug. 17; Gaz. vol. 217; p. 950.
- Miller, Fred D. (See Miller, Edgar G. and F. D.)
- Miller, Fred W., Chicago, Ill. Ice-scale for refrigerators. No. 1,148,034; July 27; Gaz. vol. 216; p. 1138.
- Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety device for starting-motors. No. 1,130,004; Mar. 2; Gaz. vol. 212; p. 57.
- Miller, George, Buffalo, N. Y. Spring-tire. No. 1,125,864; Jan. 19; Gaz. vol. 210; p. 1018.
- Miller, George, Buffalo, N. Y. Window. No. 1,138,392; May 4; Gaz. vol. 214; p. 237.
- Miller, George C. D., assignor to Cary Manufacturing Company, New York, N. Y. Wired-edge box-strapping. No. 1,133,814; Mar. 30; Gaz. vol. 212; p. 1565.
- Miller, George C. D., assignor to Cary Manufacturing Company, New York, N. Y. Fastener for crates, boxes, &c. No. 1,153,941; Sept. 21; Gaz. vol. 218; p. 630.
- Miller, George E., Madison, Me. Reclaiming apparatus for use in connection with pulp-mills. No. 1,156,800; Oct. 12; Gaz. vol. 219; p. 537.
- Miller, George F., and H. M. Koneiska, San Francisco, Cal. Combination pocket-tool. No. 1,136,826; Apr. 20; Gaz. vol. 213; p. 1055.
- Miller, George J., assignor to Wise Brothers, Baltimore, Md. Combined waist-line supporting and adjusting means for garments. No. 1,154,584; Sept. 21; Gaz. vol. 218; p. 851.
- Miller, George M. (See Slaymaker and Miller.)
- Miller, George P., Govans, Md. Bottle-filling machine. No. 1,159,598; Nov. 9; Gaz. vol. 220; p. 447.
- Miller, George W., Tarentum borough, Pa. Differential lock. No. 1,142,831; June 15; Gaz. vol. 215; p. 687.
- Miller, Grant H., Chicago, Ill. Treating beef-carasses. No. 1,160,937; Nov. 16; Gaz. vol. 220; p. 975.
- Miller, Grant S., Bristol, Va. Currycomb. No. 1,136,156; Apr. 20; Gaz. vol. 213; p. 816.
- Miller, Gustave L., Geneseo, Ill. Attachment for cultivators. No. 1,166,144; Dec. 28; Gaz. vol. 221; p. 1318.
- Miller, Guyon, assignor to Downingtown Manufacturing Company, Downingtown, Pa. Roll for beating-engines. No. 1,138,393; May 4; Gaz. vol. 214; p. 237.
- Miller, Harry, *et al.* (See Clinton, Michael, assignor.)
- Miller, Harry, New York, N. Y. Advertising-clock. No. 1,137,512; Apr. 27; Gaz. vol. 213; p. 1338.
- Miller, Harry, assignor of fifty-five one hundredths to C. E. St. Clair and ten one-hundredths to J. M. Graham, St. Louis, Mo. Antiskidding device for automobiles and the like. No. 1,132,206; Mar. 16; Gaz. vol. 212; p. 897.
- Miller, Harry B., Boston Corners, N. Y. Filter. No. 1,153,437; Sept. 14; Gaz. vol. 218; p. 419.
- Miller, Harry E., Wapiti, Wyo. Auto-curtain. No. 1,161,149; Nov. 23; Gaz. vol. 220; p. 1095.
- Miller, Harvey W. (See Kingsley and Miller.)
- Miller, Henry A., Memphis, Mo. Starting device for automobile-engines. No. 1,160,637; Nov. 16; Gaz. vol. 220; p. 870.
- Miller, Henry C., Waterford, N. Y. Sound-box. No. 1,124,636; Jan. 12; Gaz. vol. 210; p. 548.
- Miller, Henry C., Waterford, N. Y. Cushion for a sound-box. No. 1,155,945; Oct. 5; Gaz. vol. 219; p. 215.
- Miller, Henry C., Waterford, N. Y. Sewing-machine. No. 1,159,523; Nov. 9; Gaz. vol. 220; p. 420.
- Miller, Henry C., Waterford, N. Y. Buttonhole-sewing machine. No. 1,164,379; Dec. 14; Gaz. vol. 221; p. 620.
- Miller, Henry C., Milwaukee, Wis. Book and stand. No. 1,146,895; July 20; Gaz. vol. 216; p. 711.
- Miller, Henry C., Waterford, N. Y., assignor to Victor Talking Machine Company. Cabinet sound-reproducing machine. No. 1,146,342; July 13; Gaz. vol. 216; p. 498.
- Miller, Henry C., Waterford, N. Y., assignor to Victor Talking Machine Company. Cabinet sound-reproducing machine. No. 1,159,978; Nov. 9; Gaz. vol. 220; p. 535.
- Miller, Henry D. A., Chehalis, Wash. Egg-turning tray. No. 1,123,567; Jan. 5; Gaz. vol. 210; p. 126.
- Miller, Henry J., Fort Wayne, Ind. Inhaler. No. 1,129,583; Feb. 23; Gaz. vol. 211; p. 1147.
- Miller, Henry M. (See Young and Miller.)
- Miller, Henry M., Foster, assignor of one-half to J. O. Stollings and C. W. Lettwich, Madison, W. Va. Figure toy. No. 1,129,888; Mar. 2; Gaz. vol. 212; p. 19.
- Miller, Henry W., Brooklyn, N. Y. Strainer. No. 1,133,992; May 18; Gaz. vol. 214; p. 872.
- Miller, Herbert F., Wollaston, Mass. Lamp-burner. No. 1,144,610; June 29; Gaz. vol. 215; p. 1358.
- Miller, Horace E., Newark, assignor to The Sillocks-Miller Company, South Orange, N. J. Bottle. No. 1,154,931; Sept. 28; Gaz. vol. 218; p. 997.
- Miller Improved Gas Engine Company, The. (See Watts, Elmer A., assignor.)
- Miller, J. Fenton. (See Miller, Carmi A., assignor.)
- Miller, Jack E., Cleburne, Tex. Shock-former attachment for binders. No. 1,155,603; Oct. 5; Gaz. vol. 219; p. 97.
- Miller, James B., assignor to Rochester Carrier Company, Rochester, N. Y. Making up receptacles from cartons. No. 1,128,710; Feb. 16; Gaz. vol. 211; p. 804.
- Miller, James B., assignor to Rochester Carrier Company, Rochester, N. Y. Cell-case and blank therefor. No. 1,157,712; Oct. 26; Gaz. vol. 219; p. 952.
- Miller, James H., *et al.* (See Worrel, Robert H., assignor.)
- Miller, James S. (See Miller, Walter, assignor.)
- Miller, Jesse E., Knoxville, Tenn. Mill-tube. No. 1,162,502; Nov. 30; Gaz. vol. 220; p. 1615.
- Miller, John, Sr., Boston, assignor of one-fourth to J. J. Barker, Arlington Heights, one-fourth to E. Blasser, and one-fourth to W. C. Sargeant, Boston, Mass. Soli-pipe connection. No. 1,134,400; Apr. 6; Gaz. vol. 213; p. 115.
- Miller, John A., East St. Louis, Ill. Calipers. No. 1,137,885; May 4; Gaz. vol. 214; p. 56.
- Miller, John D., assignor of one-half to L. Feuerstein, Sr., Norfolk, Va. Damp-proofing salt. No. 1,140,995; May 25; Gaz. vol. 214; p. 1260.
- Miller, John F. (See Miller, Carmi A., assignor.)
- Miller, John F., Trail, British Columbia, Canada. Machine for casting lead pigs. No. 1,157,794; Oct. 26; Gaz. vol. 219; p. 980.
- Miller, John G., Oblong, Ill. Bridge-mold. No. 1,135,312; Apr. 13; Gaz. vol. 213; p. 479.
- Miller, John H., and L. Raab, assignors to Miller Cabinet Company, Rochester, N. Y. Combined table and writing-desk. No. 1,157,633; Oct. 19; Gaz. vol. 219; p. 859.
- Miller, John H., and L. Raab, assignors to Miller Cabinet Company, Rochester, N. Y. Combination table and desk. No. 1,157,634; Oct. 19; Gaz. vol. 219; p. 859.
- Miller, John J., Rochelle Park, N. J. Opening folded signatures for inseting. No. 1,124,782; Jan. 12; Gaz. vol. 210; p. 699.
- Miller, John J. A., Denver, Colo. Non-refillable bottle. No. 1,138,682; May 11; Gaz. vol. 214; p. 374.
- Miller, John L., assignor of one-fourth to H. A. Boss, Fort Collins, Colo. Railway-switch-operating mechanism. No. 1,131,940; Mar. 16; Gaz. vol. 212; p. 800.
- Miller, John P., Bellmore, Ind. Cuspidor. No. 1,148,703; Aug. 3; Gaz. vol. 217; p. 79.
- Miller, John P., Bellmore, Ind. Antislipping device for vehicle-wheels. No. 1,151,371; Aug. 24; Gaz. vol. 217; p. 1236.
- Miller, John S., Truro, Nova Scotia, Canada. Rail-fastening. No. 1,129,709; Feb. 23; Gaz. vol. 211; p. 1187.
- Miller, John T., Clovis, N. Mex. Toy. No. 1,135,828; Apr. 13; Gaz. vol. 213; p. 662.
- Miller, John V., East Orange, N. J. Three-way cock. No. 1,129,889; Mar. 2; Gaz. vol. 212; p. 19.
- Miller, John W., Rantoul, Ill. Slide-valve. No. 1,136,696; Apr. 20; Gaz. vol. 213; p. 1008.
- Miller, Joseph, Chicago, assignor of one-half to W. H. Shaw, Hubbard Woods, Ill. Automatic lathe-dog. No. 1,149,148; Aug. 3; Gaz. vol. 217; p. 232.
- Miller, Joseph F., and C. J. Locke, Detroit, Mich. Automobile signal-light. No. 1,146,588; July 13; Gaz. vol. 216; p. 587.
- Miller, Joseph V. (See Ward and Miller.)
- Miller, Julius J., St. Joseph, Mich., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Box-blank machine. No. 1,142,351; June 8; Gaz. vol. 215; p. 481.
- Miller, Lawrence M. (See Adams and Miller.)
- Miller, Leonard, Brownwood, Tex. Motor. No. 1,134,147; Apr. 6; Gaz. vol. 213; p. 23.
- Miller, Levi B. (See Weintraub and Miller.)
- Miller, Lewis J., assignor of one-fourth to G. M. Neal, Bergen, N. Y. Safety attachment for trolley-rail switches. No. 1,144,371; June 29; Gaz. vol. 215; p. 1279.
- Miller Lock Co. (See Soley, Frank, assignor.)
- Miller Lock Company. (See Jackson, Arthur C., assignor.)
- Miller Lock Company. (See Smith, Robert R., assignor.)
- Miller, Louis A., Kansas City, Mo. Protector for carboys. No. 1,159,693; Nov. 9; Gaz. vol. 220; p. 483.
- Miller, Luther O., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Washer. No. 1,130,531; Mar. 2; Gaz. vol. 212; p. 243.
- Miller, Marie, New York, N. Y. Broom-cover. No. 1,138,305; May 4; Gaz. vol. 214; p. 204.
- Miller, Martin, Frankfort-on-the-Main, Germany. Grinding grain. No. 1,123,347; Jan. 5; Gaz. vol. 210; p. 52.
- Miller, Max F., Collingswood, N. J., assignor to Warren Webster & Company. Delivering fluid to a vessel containing variable pressures. No. 1,145,866; July 6; Gaz. vol. 216; p. 312.
- Miller, Milton T., Los Angeles, Cal. Signaling device for vehicles. No. 1,137,070; Apr. 27; Gaz. vol. 213; p. 1179.

Alphabetical list of patentees—Continued.

- Miller, Nicholas C., Dodgeville, Wis. Knuckle connection for automobile-wheels. No. 1,142,190; June 8; Gaz. vol. 215; p. 425.
- Miller, Orin J., Hurdsville, N. D. Grain-door. No. 1,153,509; Sept. 14; Gaz. vol. 218; p. 445.
- Miller, Otto, Cincinnati, Ohio. Clutch. No. 1,132,958; Mar. 23; Gaz. vol. 212; p. 1221.
- Miller Pasteurizing Machine Company, The. (See Pfouts, Leroy S., assignor.)
- Miller, Perry D. (See Miller and Gadberry.)
- Miller, Ralph G., and E. C. Waterhouse, Duluth, Minn. Horse-holding device. No. 1,123,568; Jan. 5; Gaz. vol. 210; p. 126.
- Miller, Ralph M., assignor to Peoria Drill & Seeder Company, Peoria, Ill. Scraper for disks. No. 1,160,638; Nov. 16; Gaz. vol. 220; p. 871.
- Miller, Robert, assignor to R. M. Owen and Company, New York, N. Y. Gas-engine. No. 1,130,419; Mar. 2; Gaz. vol. 212; p. 201.
- Miller, Robert A. (See Rawls and Miller.)
- Miller, Robert E., Pecos, Tex. Egg-crate. No. 1,143,913; June 22; Gaz. vol. 215; p. 1087.
- Miller, Robert G., Mount Holly Springs, Pa. Vitreous ware and metal and making same. No. 1,164,840; Dec. 21; Gaz. vol. 221; p. 822.
- Miller, Robert H., Lansing, Mich. Wire-connector. No. 1,165,273; Dec. 21; Gaz. vol. 221; p. 973.
- Miller, Robert R., Toledo, Ohio. Appliance for measuring and computing heights and distances. No. 1,153,098; Sept. 7; Gaz. vol. 218; p. 260.
- Miller, Robert V., and J. A. Molin, Yonkers, N. Y. Lock attachment for sockets. No. 1,131,723; Mar. 16; Gaz. vol. 212; p. 721.
- Miller, Royal R., assignor to A. Karpen, Chicago, Ill. Revolving-seat davenport. No. 1,143,848; June 22; Gaz. vol. 215; p. 1066.
- Miller Rubber Company. (See Brucker, Ferdinand F., assignor.)
- Miller Rubber Company. (See Griffith, Richard, assignor.)
- Miller Rubber Company. (See Griffith, Richard T., assignor.)
- Miller, Rudolph C. (See Josey and Miller.)
- Miller, S. Fischer. (See Hanchett, George T., assignor.)
- Miller, Sam P., Navasota, Tex. Crossover. No. 1,130,005; Mar. 2; Gaz. vol. 212; p. 58.
- Miller, Samuel, Chicago, Ill. Dump-wagon. No. 1,127,063; Feb. 2; Gaz. vol. 211; p. 141.
- Miller, Samuel, assignor to M. J. Westbrook, Hominy, Okla. Combined window-shade and curtain-pole holder. No. 1,150,693; Aug. 17; Gaz. vol. 217; p. 950.
- Miller Saw Trimmer Company of Michigan. (See Cheshire, Edward, assignor.)
- Miller, Shrewsbury B., Fairmont, W. Va. Playing-cards. No. 1,146,808; July 20; Gaz. vol. 216; p. 682.
- Miller, Shrewsbury B., Fairmont, W. Va. Combined vacuum washing and wringing machine. No. 1,155,946; Oct. 5; Gaz. vol. 219; p. 215.
- Miller, Sigfrid A., Oakland, Cal. Pneumatic door for refrigerator-cars. No. 1,150,531; Aug. 17; Gaz. vol. 217; p. 892.
- Miller, Solomon M., assignor, by mesne assignments, to Elevator Locks Company, Peoria, Ill. Safety appliance for elevators. No. 1,144,966; June 29; Gaz. vol. 215; p. 1480.
- Miller, Solomon M., assignor, by mesne assignments, to Elevator Locks Company, Peoria, Ill. Safety-lock for elevators. No. 1,144,967; June 29; Gaz. vol. 215; p. 1481.
- Miller, St. John, Pioneer, Ohio. Feeder for tile-machines. No. 1,137,776; May 4; Gaz. vol. 214; p. 19.
- Miller, Stephen J., Danbury, Conn. Hat-curling machine. No. 1,145,076; July 6; Gaz. vol. 216; p. 37.
- Miller, Theodore H., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Oiling means for shaft-bearings. No. 1,153,529; Nov. 2; Gaz. vol. 220; p. 42.
- Miller, Theodore H., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Oiling means for shaft-bearings. No. 1,153,530; Nov. 2; Gaz. vol. 220; p. 43.
- Miller, Thomas, Craig, Miss. Bolt and nut therefor. No. 1,154,265; Sept. 21; Gaz. vol. 218; p. 741.
- Miller, Thomas A., Stockton, Cal. Wheel. No. 1,161,505; Nov. 23; Gaz. vol. 220; p. 1224.
- Miller, Thomas B., assignor of one-half to Smith Cannery Machines Company, Seattle, Wash. Interference-preventer. No. 1,127,368; Feb. 2; Gaz. vol. 211; p. 244.
- Miller, Thomas B., and A. H. Cox, assignors of one-half to Smith Cannery Machines Company, Seattle, Wash. Interference-preventer for use in wireless telegraph systems. No. 1,123,910; Jan. 5; Gaz. vol. 210; p. 243.
- Miller, Thomas H. R., assignor to Myrophone Company, Inc., New York, N. Y. Sanitary telephone attachment. No. 1,140,996; May 25; Gaz. vol. 214; p. 1260.
- Miller, Thomas S., South Orange, N. J. Rope-drum. No. 1,148,609; Aug. 3; Gaz. vol. 217; p. 45.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Manufacturing seamless rubber gloves. No. 1,146,638; July 13; Gaz. vol. 216; p. 604.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Nursing-bottle nipple. No. 1,146,639; July 13; Gaz. vol. 216; p. 604.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Reed for toys. No. 1,146,640; July 13; Gaz. vol. 216; p. 604.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Manufacture of seamless rubber articles. No. 1,152,372; Aug. 31; Gaz. vol. 217; p. 1631.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Manufacture of rubber bands. No. 1,155,325; Sept. 28; Gaz. vol. 218; p. 1130.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Seamless rubber glove. No. 1,157,646; Oct. 19; Gaz. vol. 219; p. 863.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Manufacturing seamless rubber gloves. No. 1,165,198; Dec. 21; Gaz. vol. 221; p. 948.
- Miller, Tobias, Youngstown, Ohio. Expansion-joint. No. 1,163,941; Dec. 14; Gaz. vol. 221; p. 468.
- Miller, Ulysses G., Lebo, Kans. Combined door bumper and holder. No. 1,128,173; Feb. 9; Gaz. vol. 211; p. 570.
- Miller, Uriah R., assignor to The W. H. Mullins Co., Salem, Ohio. Canoe. No. 1,124,637; Jan. 12; Gaz. vol. 210; p. 548.
- Miller Vehicle Heater Company. (See Miller, William H., assignor.)
- Miller, Walter, Beaver Falls, assignor of one-half to J. S. Miller, Beaver, Pa. Tooth-brush holder. No. 1,139,134; May 11; Gaz. vol. 214; p. 536.
- Miller, Walter H., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Talking-machine. No. 1,130,099; Mar. 2; Gaz. vol. 212; p. 89.
- Miller, Walter S., assignor to St. Louis Car Company, St. Louis, Mo. Truck. No. 1,123,777; Jan. 5; Gaz. vol. 210; p. 198.
- Miller, Ward J., Kalamazoo, assignor to Easy Truss Company, Battle Creek, Mich. Truss. No. 1,133,815; Mar. 30; Gaz. vol. 212; p. 1565.
- Miller, Warren A., Dayton, Ohio. Portable orchard-ladder. No. 1,148,035; July 27; Gaz. vol. 216; p. 1138.
- Miller, Wilfred A., New York, N. Y. Electric heater. No. 1,137,513; Apr. 27; Gaz. vol. 213; p. 1338.
- Miller, William A., Rice Lake, Wis. Brush attachment. No. 1,162,635; Nov. 30; Gaz. vol. 220; p. 1657.
- Miller, William A. C. (See Boyer, Joseph, assignor.)
- Miller, William C., Moretown, Vt. Automatic train-pipe coupling. No. 1,143,984; June 22; Gaz. vol. 215; p. 1112.
- Miller, William D., Raywick, Ky. Gate. No. 1,131,408; Mar. 9; Gaz. vol. 212; p. 577.
- Miller, William D., Custer, Mich. Grapple. No. 1,148,704; Aug. 3; Gaz. vol. 217; p. 79.
- Miller, William E., Allegan, Mich. Machine for sealing wrappers upon loaves of bread. No. 1,142,976; June 15; Gaz. vol. 215; p. 739.
- Miller, William H., Lincoln, Nebr. Percussion-tool. No. 1,162,636; Nov. 30; Gaz. vol. 220; p. 1657.
- Miller, William H., assignor to Keck-Gonnerman Co., Mount Vernon, Ind. Valve-gear. No. 1,125,367; Jan. 19; Gaz. vol. 210; p. 844.
- Miller, William H., assignor to Miller Vehicle Heater Company, Crawfordsville, Ind. Vehicle-heater. No. 1,164,841; Dec. 21; Gaz. vol. 221; p. 823.
- Miller, William J., Swissvale, Pa. Apparatus for pressing glass articles. No. 1,130,918; Mar. 9; Gaz. vol. 212; p. 409.
- Miller, William J., Swissvale, Pa. Apparatus for pressing glass articles. No. 1,130,919; Mar. 9; Gaz. vol. 212; p. 410.
- Miller, William J., Swissvale, Pa. Apparatus for pressing glass articles. No. 1,130,920; Mar. 9; Gaz. vol. 212; p. 410.
- Miller, William J., Logansport, Ind. Brake means for railway-cars and the like. No. 1,158,706; Nov. 2; Gaz. vol. 220; p. 103.
- Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Automatic brake for lathes. No. 1,139,555; May 18; Gaz. vol. 214; p. 718.
- Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Fluid-pressure chuck-actuating device. No. 1,146,193; July 13; Gaz. vol. 216; p. 446.
- Miller, William M. S. (See Apple and Miller.)
- Miller, William T. (See Slaght and Miller.)
- Miller, Willoughby S., Reading, Pa. Automobile-wheel. No. 1,154,876; Sept. 28; Gaz. vol. 218; p. 977.
- Millers Falls Company. (See Leland, John A., assignor.)
- Millice, Paul S., and M. Mueller, Hamilton, Ohio, assignors to Herring-Hall-Marvin Safe Company, New York, N. Y. Sheet-metal safe. No. 1,150,613; Aug. 17; Gaz. vol. 217; p. 922.
- Milligan, Frederick D., San Diego, Cal. Brake for house-moving trucks. No. 1,129,413; Feb. 23; Gaz. vol. 211; p. 1087.
- Milligan, John A. (See Ross, William L., assignor.)
- Milliken, Frank W., assignor of one-half to C. C. Brown, Auburn, Me. Automatic sprinkler alarm and indicator system. No. 1,153,400; Sept. 14; Gaz. vol. 218; p. 405.
- Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Knuckle-pin retainer for car-couplings. No. 1,148,036; July 27; Gaz. vol. 216; p. 1139.

Alphabetical list of patentees—Continued.

- Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,037; July 27; Gaz. vol. 216; p. 1139.
- Milliken, Isaac H., Aspinwall, assignor to McConway & Torley Company, Pittsburgh, Pa. Antitelescoping device for railway-cars. No. 1,148,038; July 27; Gaz. vol. 216; p. 1140.
- Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling. No. 1,148,039; July 27; Gaz. vol. 216; p. 1140.
- Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-operating mechanism. No. 1,154,039; Sept. 21; Gaz. vol. 218; p. 664.
- Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-controlling mechanism. No. 1,154,040; Sept. 21; Gaz. vol. 218; p. 664.
- Milliken, Norman L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,148,040; July 27; Gaz. vol. 216; p. 1140.
- Milliken, Walter L. (See Shiek, Daniel W., assignor.)
- Milliken, Walter L., trustee. (See Shiek, Daniel W., assignor.)
- Millikin, Winfield O., Detroit, Mich. Nut-lock. No. 1,156,243; Oct. 12; Gaz. vol. 219; p. 343.
- Millikin, Winfield O., Detroit, Mich. Nut-lock. No. 1,157,999; Oct. 26; Gaz. vol. 219; p. 1052.
- Milliot, Louis, Yonkers, N. Y. Florist's dirt-sieve. No. 1,132,667; Mar. 23; Gaz. vol. 212; p. 1114.
- Milliron, Ira A., New York, N. Y., assignor, by mesne assignments, to Hammock Egg Carrier Company. Apparatus and process for packing articles. No. 1,132,668; Mar. 23; Gaz. vol. 212; p. 1114.
- Milliron, Ira A., Syracuse, N. Y., assignor, by mesne assignments, to Hammock Egg Carrier Company. Container for use in shipment of fragile articles. No. 1,150,140; Aug. 17; Gaz. vol. 217; p. 756.
- Milliron, Ira A., New York, N. Y., assignor to Hammock Egg Carrier Company. Transporting-receptacle for eggs and similar articles. No. 1,165,110; Dec. 21; Gaz. vol. 221; p. 917.
- Mills, William A., Wheatland, Cal. Transmission-gearing. No. 1,141,813; June 1; Gaz. vol. 215; p. 254.
- Millman, Curtis F., Woodside, Del., assignor to F. Schorno, Ipassa, N. J. Signature-machine. No. 1,158,068; Oct. 26; Gaz. vol. 219; p. 1077.
- Milloy, Peter D., New York, N. Y. Metallic tread for tires. No. 1,131,070; Mar. 9; Gaz. vol. 212; p. 461.
- Mills, Americus C., Jr., Rochester, N. Y. Display-rack. No. 1,145,205; July 6; Gaz. vol. 216; p. 80.
- Mills, Andrew J., Weir, Miss. Paper extract-holding cup. No. 1,157,568; Oct. 19; Gaz. vol. 219; p. 838.
- Mills, Anson C., Jackson, Mich. Fence-making machine. No. 1,146,194; July 13; Gaz. vol. 216; p. 447.
- Mills, Anson C., Jackson, Mich. Feeding mechanism for wire-fence machines. No. 1,146,195; July 13; Gaz. vol. 216; p. 447.
- Mills, Benjamin F., Decatur, Ill. Line-chalker. No. 1,146,196; July 13; Gaz. vol. 216; p. 447.
- Mills, Bertie E., assignor to Mills Novelty Co., Chicago, Ill. Coin-operated weighing-scale. No. 1,155,077; Sept. 28; Gaz. vol. 218; p. 1048.
- Mills, Charles A. (See Williamson, James D., assignor.)
- Mills, Charles B., Baltimore, Md. Electroplating. No. 1,144,226; June 22; Gaz. vol. 215; p. 1200.
- Mills, Charles B., assignor of one-fourth to A. J. Carr, Baltimore, Md. Electric-lamp socket. No. 1,131,724; Mar. 16; Gaz. vol. 212; p. 721.
- Mills, Charles B., assignor of one-fourth to A. J. Carr, Baltimore, Md. Cable-tap. No. 1,144,224; June 22; Gaz. vol. 215; p. 1200.
- Mills, Charles B., Gardenville, assignor of one-fourth to A. J. Carr, Baltimore, Md. Cable-connector. No. 1,144,225; June 22; Gaz. vol. 215; p. 1200.
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety device for starting-motors. No. 1,130,675; Mar. 2; Gaz. vol. 212; p. 292.
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,159,524; Nov. 9; Gaz. vol. 220; p. 421.
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting device for automobiles. No. 1,164,006; Dec. 14; Gaz. vol. 221; p. 490.
- Mills, Clarence M., Phillipsburg, Kans., assignor to The Essenkay Products Company, Chicago, Ill. Tire-tool. No. 1,156,167; Oct. 12; Gaz. vol. 219; p. 319.
- Mills, David B., Montclair, N. J., assignor to Pasha Spark Plug Company. Spark-plug. No. 1,153,942; Sept. 21; Gaz. vol. 218; p. 631.
- Mills, Edgar A., Baltimore, and R. H. Richards, Hamilton, assignors of three-fifths to J. B. Wells, Baltimore, Md. Water-heater. No. 1,144,227; June 22; Gaz. vol. 215; p. 1200.
- Mills, Edward F. (See Mills, Francis E. and E. F.)
- Mills, Edward J., San Francisco, Cal. Combined cover and index for bound books. No. 1,134,544; Apr. 6; Gaz. vol. 213; p. 168.
- Mills, Ernest L., Watertown, and R. M. Mills, Cicero, N. Y. Milking-machine. No. 1,132,599; Mar. 23; Gaz. vol. 212; p. 1089.
- Mills, Francis E. and E. F., Boston, Mass. Pressure-transmitting controller. No. 1,136,478; Apr. 20; Gaz. vol. 213; p. 932.
- Mills, Henry D., Far Rockaway, N. Y. Wheel. No. 1,139,209; May 11; Gaz. vol. 214; p. 562.
- Mills, Henry L. (See Trescott, Charles B., assignor.)
- Mills, Herbert S., Chicago, Ill. Coin-operated weighing-scale. No. 1,139,993; May 18; Gaz. vol. 214; p. 873.
- Mills, Herbert S., Chicago, Ill. Coin-operated weighing-scale. No. 1,155,078; Sept. 28; Gaz. vol. 218; p. 1048.
- Mills, John E., Chicago, Ill. Deep-well pump. No. 1,134,479; Apr. 6; Gaz. vol. 213; p. 144.
- Mills, Joseph A., Beeston, England. Knitting-machine. No. 1,147,531; July 20; Gaz. vol. 216; p. 935.
- Mills, Lloyd M., Appleton, Wis. Lock for bottles and jars. No. 1,155,947; Oct. 5; Gaz. vol. 219; p. 216.
- Mills, Louis D., Johannesburg, Transvaal, South Africa, assignor to Merrill Metallurgical Company. Precipitating metals from solutions. No. 1,123,778; Jan. 5; Gaz. vol. 210; p. 199.
- Mills Novelty Co. (See Mills, Bertie E., assignor.)
- Mills Novelty Company. (See Sandell, Henry K., assignor.)
- Mills, Radcliffe B. (See Sack, Herman R., assignor.)
- Mills, Richard M. (See Mills, Ernest L. and R. M.)
- Mills, Rolla O., Redondo, Wash. Combination bath-room fixture. No. 1,143,128; June 15; Gaz. vol. 215; p. 791.
- Mills, William A., assignor to W. A. Mills, Jr., Port Chester, N. Y. Army field-kitchen. No. 1,127,064; Feb. 2; Gaz. vol. 211; p. 141.
- Mills, William S., Bridgeport, Conn. Fabric-folding machine. No. 1,140,388; May 25; Gaz. vol. 214; p. 1046.
- Mills Woven Cartridge Belt Company. (See Batchelder, Frank R., assignor.)
- Mills Woven Cartridge Belt Company. (See Bates, Charles G., assignor.)
- Mills Woven Cartridge Belt Company. (See Jennings, Victor H., assignor.)
- Millsap, Leander W., Jr., Woodland, Cal. Wrench. No. 1,155,948; Oct. 5; Gaz. vol. 219; p. 216.
- Millsap, William H., Sandusky, Ohio. Paper-making. No. 1,163,251; Dec. 7; Gaz. vol. 221; p. 181.
- Millsap, William H., Sandusky, Ohio. Paper-making. No. 1,163,252; Dec. 7; Gaz. vol. 221; p. 182.
- Millsap, William H., Sandusky, Ohio. Paper-making machine. No. 1,163,253; Dec. 7; Gaz. vol. 221; p. 182.
- Millsap, William H., Sandusky, Ohio. Paper-making machine. No. 1,163,254; Dec. 7; Gaz. vol. 221; p. 182.
- Milward, John R. (See Lelong and Milward.)
- Milmoe, Michael J. (See Kedington and Milmoe.)
- Milmoe, Michael J. (See Stock and Milmoe.)
- Milmoe, Michael J., assignor to W. C. Ritchie & Company, Chicago, Ill. Labeling-machine. No. 1,126,822; Feb. 2; Gaz. vol. 211; p. 56.
- Milmoe, Michael J., assignor to W. C. Ritchie & Company, Chicago, Ill. Box-labeling machine. No. 1,126,824; Feb. 2; Gaz. vol. 211; p. 57.
- Milmoe, Michael J., Chicago, Ill., assignor, by mesne assignments, to Package Machinery Company, Springfield, Mass. Package for chewing-gum and other articles of merchandise. No. 1,126,823; Feb. 2; Gaz. vol. 211; p. 57.
- Milne, Charles A., assignor to T. Parshall, Detroit, Mich. Mechanical movement. No. 1,127,065; Feb. 2; Gaz. vol. 211; p. 141.
- Milne, George G., Rye, N. Y., assignor to Gould Coupler Company. Power transmission. No. 1,145,431; July 6; Gaz. vol. 216; p. 159.
- Milne, Isaac B. (See Hadfield, Jack, and Milne.)
- Milne, James S., San Francisco, Cal. Steam-superheater for boilers. No. 1,163,357; Dec. 7; Gaz. vol. 221; p. 218.
- Milne, Russell A., assignor of one-half to A. C. Picard, Detroit, Mich. Adjustable nozzle for atomizing oil. No. 1,153,401; Sept. 14; Gaz. vol. 218; p. 406.
- Milner, Walter S., Eastman, Ga. Combined fender and brake. No. 1,125,865; Jan. 19; Gaz. vol. 210; p. 1018.
- Miloš, Anton, New York, N. Y. Life-preserver. No. 1,152,199; Aug. 31; Gaz. vol. 217; p. 1569.
- Milton, John L., Anderson, Ind. Electric generator. No. 1,130,755; Mar. 9; Gaz. vol. 212; p. 353.
- Milton, John L., Chicago, Ill., assignor, by mesne assignments, to Webster Electric Company, Racine, Wis. Inductor-generator. No. 1,141,474; June 1; Gaz. vol. 215; p. 139.
- Milton, John L., assignor of one-half to T. K. Webster, Chicago, Ill. Inductor-generator. No. 1,142,047; June 8; Gaz. vol. 215; p. 374.
- Milward, Victor T., Dayton, Wyo. Measuring device. No. 1,153,810; Sept. 14; Gaz. vol. 218; p. 549.
- Milwaukee Corrugating Company. (See Flagge, Philipp F., assignor.)
- Milwaukee Electric Railway & Light Company, The. (See Mullett, Howard A., assignor.)
- Milwaukee Locomotive Manufacturing Company. (See Sheldon, Frank D., assignor.)
- Milwaukee-Reliance Boiler Works. (See Forsyth, Adelbert, assignor.)

Alphabetical list of patentees—Continued.

- Milwaukee Woven Wire Works. (See Marquardt, Reinhold G., assignor.)
- Milwaukee Yacht & Boat Company. (See Crouch, Albert W., assignor.)
- Mims, James R., Luray, Va. Holder for cement-forms. No. 1,149,076; Aug. 3; Gaz. vol. 217; p. 209.
- Minehart, Katherine V., Philadelphia, Pa. Combined hand-bag and seat. No. 1,140,997; May 25; Gaz. vol. 214; p. 1260.
- Miner, Alfred C., Missoula, Mont. Trolley-harp carrier. No. 1,137,271; Apr. 27; Gaz. vol. 213; p. 1253.
- Miner, Alfred C., Missoula, Mont. Trolley-harp fastener. No. 1,164,955; Dec. 21; Gaz. vol. 221; p. 862.
- Miner, Charles W., Albion, N. Y. Jewelring-tool. No. 1,130,186; Mar. 2; Gaz. vol. 212; p. 120.
- Miner, Frank A., Windsor, Ontario, Canada, assignor of one-third to J. Green and one-third to R. J. Brace, Pontiac, Mich. Method and apparatus for attaching buttons to fabrics. No. 1,140,474; May 25; Gaz. vol. 214; p. 1078.
- Miner, James H., Lumberton, Miss. Saw-sharpening machine. No. 1,159,064; Nov. 2; Gaz. vol. 220; p. 226.
- Miner, Raymond C., assignor of one-half to H. P. Hanson, Faith, S. D. Finger-nail clipper. No. 1,135,462; Apr. 13; Gaz. vol. 213; p. 531.
- Miner, Raymond C., Faith, S. D., assignor, by mesne assignments, of one-half to G. Gregory, Glendive, Mont. Pencil-securing holder. No. 1,144,426; June 29; Gaz. vol. 215; p. 1297.
- Miner, William G., Cincinnati, Ohio. Engine for utilizing powdered fuel. No. 1,156,702; Oct. 12; Gaz. vol. 219; p. 505.
- Miner, William H. (See Bock, William A., assignor.)
- Miner, William H. (See Copony, Alfred, assignor.)
- Miner, William H. (See Dath, Charles E., assignor.)
- Miner, William H. (See Geiger, William A., assignor.)
- Miner, William H. (See Haseltine, Stacy B., assignor.)
- Miner, William H. (See Johnson, George A., assignor.)
- Miner, William H. (See Lewis, Goodrich Q., assignor.)
- Miner, William H. (See Miner and O'Connor, assignors.)
- Miner, William H. (See Mitchell, John R., assignor.)
- Miner, William H. (See Mitchell, William A., assignor.)
- Miner, William H. (See O'Connor, John F., assignor.)
- Miner, William H. (See Patch, Calvin B., assignor.)
- Miner, William H. (See Schwartzberg, Harry F., assignor.)
- Miner, William H. (See Thorne, Thomas W., assignor.)
- Miner, William H. (See Willoughby, Victor, assignor.)
- Miner, William H., Chicago, Ill. Railway bumping-post. No. 1,126,825; Feb. 2; Gaz. vol. 211; p. 58.
- Miner, William H., Chicago, Ill. Draft-arm. No. 1,128,346; Feb. 16; Gaz. vol. 211; p. 679.
- Miner, William H., Chicago, Ill. Railway draft-rigging. No. 1,136,029; Apr. 20; Gaz. vol. 213; p. 772.
- Miner, William H., Chicago, Ill. Machine for testing and registering the action of draft-rigging. No. 1,137,999; May 4; Gaz. vol. 214; p. 96.
- Miner, William H., Chicago, Ill. Railway draft-rigging. No. 1,138,000; May 4; Gaz. vol. 214; p. 97.
- Miner, William H., Chicago, Ill. Draft-rigging for railway-cars. No. 1,139,791; May 18; Gaz. vol. 214; p. 801.
- Miner, William H., Chicago, Ill. Buffer device for railway-cars. No. 1,152,035; Aug. 31; Gaz. vol. 217; p. 1514.
- Miner, William H., Chazy, N. Y. Buffering mechanism for railway-cars. No. 1,142,832; June 15; Gaz. vol. 215; p. 687.
- Miner, William H., Chazy, N. Y. Railway-diaphragm-face-plate-supporting means. No. 1,152,036; Aug. 31; Gaz. vol. 217; p. 1514.
- Miner, William H., Chazy, N. Y. Draft-rigging for railway-cars. No. 1,155,079; Sept. 28; Gaz. vol. 218; p. 1049.
- Miner, William H., and J. F. O'Connor, assignors, by mesne assignments, to W. H. Miner, Chicago, Ill. Tandem-spring draft-rigging for railway-cars. No. 1,136,030; Apr. 20; Gaz. vol. 213; p. 773.
- Mineral Products Company, The. (See Hershman, Paul R., assignor.)
- Mineral Products Company, The. (See MacDowell, Charles H., assignor.)
- Mineral Electric Company. (See Bretz, Homer A., assignor.)
- Mineral Electric Company. (See Myrick, George H., assignor.)
- Minerals Separation. (See Littleford, John W., assignor.)
- Minerals Separation American Syndicate (1913) Limited. (See Higgins, Arthur H., assignor.)
- Minerals Separation Limited. (See Higgins and Stenning, assignors.)
- Minerals Separation American Syndicate (1913) Limited. (See Lavers, Henry, assignor.)
- Minerals Separation American Syndicate (1913) Limited. (See Owen, Thomas M., assignor.)
- Minerals Separation American Syndicate (1913) Limited. (See Wood, Louis A., assignor.)
- Minich, Verne E., New York, N. Y., assignor to Sand Mixing Machine Company, Greenfield, Ohio. Apparatus for cutting and mixing sand. No. 1,139,362; May 11; Gaz. vol. 214; p. 613.
- Minier, William, Princeton, Ill. Harrow attachment for gang-plows. No. 1,165,527; Dec. 28; Gaz. vol. 221; p. 1099.
- Mink, Harry M. (See Andersen and Mink.)
- Minkler, Bruce, assignor to C. Dickinson and W. J. Schultz, Maricopa, Cal. Combined casing and tubing tongs and holder. No. 1,127,066; Feb. 2; Gaz. vol. 211; p. 142.
- Minkler, Frank, et al. (See Minkler, Ray A., assignor.)
- Minkler, George W., Vancouver, Wash. Celestial sphere for use in schools and colleges. No. 1,162,300; Nov. 30; Gaz. vol. 220; p. 1546.
- Minkler, Ray A., Carthage, Mo., assignor of three-sixteenths to D. Hooker, three-sixteenths to S. Marsee, three-sixteenths to F. Frost, one-eighth to F. Minkler, and one-sixteenth to N. A. Ludy. Stovepipe-joint connection. No. 1,148,041; July 27; Gaz. vol. 216; p. 1141.
- Minneapolis Heat Regulator Co. (See Kersteter, Joel C., assignor.)
- Minneapolis Iron Store Company. (See Ulven, Christian, assignor.)
- Minnich, John W., Reading, Pa. Key-hook. No. 1,146,641; July 13; Gaz. vol. 216; p. 605.
- Minnich, Martin, Covington, Ohio. Broom and tool holder. No. 1,156,168; Oct. 12; Gaz. vol. 219; p. 319.
- Minnick, Warren R., assignor to Permanent Advertising Company, Reading, Pa. Display-card. No. 1,162,503; Nov. 30; Gaz. vol. 220; p. 1616.
- Minnick, William F., assignor to The Harris Automatic Press Company, Niles, Ohio. Sheet-feeder. No. 1,123,348; Jan. 5; Gaz. vol. 210; p. 52.
- Minnie, Charles A., Wellsburg, assignor of two-ninths to P. Seltner, McMechen, and two-ninths to G. Ogden, Wellsburg, W. Va. Bath-fixture. No. 1,159,324; Nov. 2; Gaz. vol. 220; p. 318.
- Minnlear, Walter C., Kansas City, Mo. Gas-generator. No. 1,146,764; July 13; Gaz. vol. 216; p. 646.
- Minning, Charles J. (See North, Minning, and McWeeny.)
- Minns, Raymond H. (See Stoddard, Elwie F., assignor.)
- Minno, William E., et al., trustees. (See Myers, Mahlon C., assignor.)
- Minor, Edward A., Wilder, Vt. Transmission mechanism. No. 1,161,066; Nov. 23; Gaz. vol. 220; p. 1065.
- Minor, Frank W., Richmond, Va. Enlarging-lantern or projectoscope. No. 1,136,697; Apr. 20; Gaz. vol. 213; p. 1009.
- Minor, Walter S., Cunningham, Tenn. Pitman-coupling. No. 1,156,918; Oct. 19; Gaz. vol. 219; p. 610.
- Minor, Walter S., Cunningham, Tenn. Pitman-coupling. No. 1,157,950; Oct. 26; Gaz. vol. 219; p. 1035.
- Minsas, Ole, Tacoma, Wash. Combined saw set and jointer. No. 1,164,842; Dec. 21; Gaz. vol. 221; p. 823.
- Minshall, John C. (See Longman and Minshall.)
- Minsker, Charles A., Pittsburgh, assignor of forty-five one-hundredths to C. L. Ulery, Wilkinsburg, and ten one-hundredths to J. C. Hill, Williamsport, Pa. Lubricator. No. 1,161,506; Nov. 23; Gaz. vol. 220; p. 1224.
- Minton, Ogden, Brooklyn, N. Y. Drying sheet material. No. 1,147,808; July 27; Gaz. vol. 216; p. 1057.
- Minton, Ogden, Brooklyn, N. Y. Method and apparatus for drying sheet material. No. 1,147,809; July 27; Gaz. vol. 216; p. 1057.
- Minton, Willis H. (See Dew and Minton.)
- Minturn, Thomas R., Jr., Fresno, Cal. Wind-shield. No. 1,129,710; Feb. 23; Gaz. vol. 211; p. 1187.
- Mintz, Mike, Rock Island, Ill. Oiling device. No. 1,159,406; Nov. 9; Gaz. vol. 220; p. 379.
- Mintz, Mike, assignor to Gearless Automatic Pump Company, Rock Island, Ill. Relief-valve. No. 1,133,738; Mar. 30; Gaz. vol. 212; p. 1537.
- Minue, William E., Fredericton, New Brunswick, Canada. Connecting-rod bearing for rotating cylinder-engines. No. 1,138,001; May 4; Gaz. vol. 214; p. 97.
- Minue, William E., Fredericton, New Brunswick, Canada. Engine. No. 1,151,602; Aug. 31; Gaz. vol. 217; p. 1364.
- Miorke, Joseph, Milwaukee, Wis. Saw-sharpening machine. No. 1,157,890; Oct. 26; Gaz. vol. 219; p. 1015.
- Mioton, Sidney F., New Orleans, La. Automatic gasoline service. No. 1,133,167; Mar. 23; Gaz. vol. 212; p. 1297.
- Mirande, Abraham B. J. R., Saverdun, France. Apron for harvesting-machines. No. 1,138,235; May 4; Gaz. vol. 214; p. 179.
- Mires Fuel-Oil Equipment Company. (See Beach, George F., assignor.)
- Mires Fuel-Oil Equipment Company. (See Scrimgeour, William, assignor.)
- Mirfield, Norman. (See Dismer and Mirfield.)
- Mirkov, George, Budakalász, Austria-Hungary. Device for teaching arithmetic. No. 1,129,890; Mar. 2; Gaz. vol. 212; p. 20.
- Mirtz, Philip P., Cleveland, Ohio. Rod-head. No. 1,133,874; Mar. 30; Gaz. vol. 212; p. 1586.
- Mischansky, Stephen A., Syracuse, N. Y. Saw-setting device. No. 1,159,407; Nov. 9; Gaz. vol. 220; p. 379.
- Mischansky, Stephen A., and M. Pawlowski, Syracuse, N. Y.; said Mischansky assignor to said Pawlowski. Liquid-measuring apparatus. No. 1,156,244; Oct. 12; Gaz. vol. 219; p. 343.

- Misee, Thomas E., and E. L. Taylor, Barling, Ark. Rail joint. No. 1,130,921; Mar. 9; Gaz. vol. 212; p. 411.
- Miser, Charles E., Watertown, N. Y. Expandable and contractile core for paper and similar rolls. No. 1,135,388; Apr. 13; Gaz. vol. 213; p. 505.
- Miser, John P., Canton, Ohio. Curtain-holding bracket. No. 1,146,642; July 13; Gaz. vol. 216; p. 605.
- Mishel, Moses, Revere, Mass. Window-cleaner's platform. No. 1,165,435; Dec. 28; Gaz. vol. 221; p. 1069.
- Misland, Joseph A. (See Kennedy and Misland.)
- Misostow, Henry, Chicago, Ill. Furnace. No. 1,123,911; Jan. 5; Gaz. vol. 210; p. 243.
- Missbach, Ernst G., New York, N. Y., assignor to Siemens & Halske, Aktiengesellschaft, Berlin, Germany. System of electrical signaling. No. 1,126,826; Feb. 2; Gaz. vol. 211; p. 58.
- Missbach, Ernst G., New York, N. Y., assignor to Siemens & Halske, Aktiengesellschaft, Berlin, Germany. Electric signaling apparatus. No. 1,135,040; Apr. 13; Gaz. vol. 213; p. 387.
- Missbach, Ernst G., New York, N. Y., assignor to Siemens & Halske, Aktiengesellschaft, Berlin, Germany. Electric signaling apparatus. No. 1,150,054; Aug. 17; Gaz. vol. 217; p. 724.
- Mississippi Wire Glass Company. (See Baldwin, Arthur J., assignor.)
- Missong, Jacob H., Frankfort-on-the-Main, Germany. Controlling means for steam-engines for the utilization of waste heat. No. 1,138,774; May 11; Gaz. vol. 214; p. 407.
- Mitchell, Albert E., Stamford, Conn. Machine for boring wood. No. 1,136,031; Apr. 20; Gaz. vol. 213; p. 773.
- Mitchell, Andrew F., Homestead, Pa. Protecting-hood for thermo-couples. No. 1,140,701; May 25; Gaz. vol. 214; p. 1154.
- Mitchell, Arthur B., Birmingham, Ala. Acetylene-lamp. No. 1,141,475; June 1; Gaz. vol. 215; p. 140.
- Mitchell, Augusta V., Washington, D. C. Spring-wheel construction. No. 1,127,271; Feb. 2; Gaz. vol. 211; p. 213.
- Mitchell, Charles W., assignor of one-third to L. A. Mitchell and one-third to A. W. Morrow, Philadelphia, Pa. Rotary gas-engine. No. 1,165,988; Dec. 28; Gaz. vol. 221; p. 1261.
- Mitchell, Clarence D., Reed, Ky. Barrel-lid. No. 1,155,261; Sept. 28; Gaz. vol. 218; p. 1109.
- Mitchell-Colson, Frankie, San Bernardino, Cal. Cooking utensil. No. 1,133,168; Mar. 23; Gaz. vol. 212; p. 1298.
- Mitchell, David, Jr., and I. V., Los Angeles, Cal. Carbureter. No. 1,126,249; Jan. 26; Gaz. vol. 210; p. 1193.
- Mitchell, Dennis, Waterloo, England. Foot-sock. No. 1,141,814; June 1; Gaz. vol. 215; p. 254.
- Mitchell, Edward J., Brooklyn, N. Y. Automobile-tire. No. 1,149,459; Aug. 10; Gaz. vol. 217; p. 449.
- Mitchell, Frank T. (See Allen and Mitchell.)
- Mitchell, George M., Sr., Paterson, N. J. Strap-wrench. No. 1,161,402; Nov. 23; Gaz. vol. 220; p. 1188.
- Mitchell, George W., New York, assignor to L. M. Rosenthal, Mount Vernon, N. Y. Bottle-cap. No. 1,139,792; May 18; Gaz. vol. 214; p. 802.
- Mitchell, Gilbert R. (See Horn, Bert H., assignor.)
- Mitchell, Granville C. (See Jaquith, Adelbert, assignor.)
- Mitchell, Harry J., Wilmerding, Pa. Toy. No. 1,154,331; Sept. 21; Gaz. vol. 218; p. 764.
- Mitchell-Henry, Lorenzo, New York, N. Y. Link for fishing and other tackle. No. 1,159,325; Nov. 2; Gaz. vol. 220; p. 319.
- Mitchell, Ira G., Meeker, Colo. Step-ladder. No. 1,134,214; Apr. 6; Gaz. vol. 213; p. 48.
- Mitchell, Isaac V. (See Mitchell, David, Jr., and I. V.)
- Mitchell, J. H., et al. (See Dudley, Andrew T., assignor.)
- Mitchell, John C. (See Hirsh, Meriwether, and Mitchell.)
- Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,129,220; Feb. 23; Gaz. vol. 211; p. 1819.
- Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,166,072; Dec. 28; Gaz. vol. 221; p. 1289.
- Mitchell, John E., St. Louis, Mo., assignor to The Prinz and Rau Manufacturing Company. Dust-collector. (Reissue.) No. 13,963; Aug. 17; Gaz. vol. 217; p. 1004.
- Mitchell, John E., and D. Parks, St. Louis, Mo. Combined lift-cutting and heel-blank-building machine. No. 1,157,409; Oct. 19; Gaz. vol. 219; p. 785.
- Mitchell, John E., and D. Parks, St. Louis, Mo. Machine for grading scrap-leather. No. 1,163,358; Dec. 7; Gaz. vol. 221; p. 219.
- Mitchell, John F., Santa Monica, assignor to E. P. Young, Los Angeles, Cal. Lamp. No. 1,141,880; June 1; Gaz. vol. 215; p. 276.
- Mitchell, John R., assignor to W. H. Miner, Chicago, Ill. Railway draft-rigging. No. 1,140,523; May 25; Gaz. vol. 214; p. 1096.
- Mitchell, Joshua B., Richmond, Va. Shoe receptacle and protector. No. 1,132,280; Mar. 16; Gaz. vol. 212; p. 926.
- Mitchell, Lee G., and G. H. Norquist, assignors of one-third to C. Lundgren, Omaha, Nebr. Bowl-hanger for electric lights. No. 1,162,504; Nov. 30; Gaz. vol. 220; p. 1616.
- Mitchell, Lizzie A., et al. (See Mitchell, Charles W., assignor.)
- Mitchell, Marcus J., Youngstown, Ohio. Penholder. No. 1,154,332; Sept. 21; Gaz. vol. 218; p. 764.
- Mitchell, Mary P., Eaton, Ohio. Electric engine-starter. No. 1,139,210; May 11; Gaz. vol. 214; p. 562.
- Mitchell, Mary P., Eaton, Ohio. Mechanical starting device for explosion-engines. No. 1,141,198; June 1; Gaz. vol. 215; p. 38.
- Mitchell, Melvin G., South Bend, Ind., assignor, by mesne assignments, to National-Standard Company, Niles, Mich. Lightning-conductor for telephone-lines. No. 1,129,357; Feb. 23; Gaz. vol. 211; p. 1067.
- Mitchell, Melvin G., South Bend, Ind., assignor, by mesne assignments, to National-Standard Company, Niles, Mich. Lightning-conductor. No. 1,129,358; Feb. 23; Gaz. vol. 211; p. 1067.
- Mitchell, Nelson B., and J. W. Taggart, Sr., assignors of one-third to U. G. Redelmann, Indianapolis, Ind. Portable saw-engine. No. 1,160,938; Nov. 16; Gaz. vol. 220; p. 976.
- Mitchell, Oliver C. (See Alexander, Solomon, assignor.)
- Mitchell, Raymond C., Springfield, Ohio. Device for cutting cams. No. 1,165,617; Dec. 28; Gaz. vol. 221; p. 1132.
- Mitchell, Robert C., Mount Vernon, N. Y. Ball-bearing. No. 1,165,111; Dec. 21; Gaz. vol. 221; p. 918.
- Mitchell, Samuel S., Weiser, Idaho. Gripper, perforator, and creaser. No. 1,131,725; Mar. 16; Gaz. vol. 212; p. 721.
- Mitchell, Thomas J., and J. A. McCreary, Uniontown, Pa. Latch for telescopic sections. No. 1,125,866; Jan. 19; Gaz. vol. 210; p. 1018.
- Mitchell, Thomas T., assignor of one-half to M. R. Crawford, Joaquin, Tex. Lock-nut. No. 1,155,949; Oct. 5; Gaz. vol. 219; p. 217.
- Mitchell, W. L., et al. (See Dudley, Andrew T., assignor.)
- Mitchell, William A., Sedalia, Mo. Draft-yoke for railway-car draft-rigging. No. 1,136,032; Apr. 20; Gaz. vol. 213; p. 773.
- Mitchell, William A., Sedalia, Mo., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-car draft-rigging. No. 1,128,347; Feb. 16; Gaz. vol. 211; p. 679.
- Mitchell, William G. (See Watson, Alexander, assignor.)
- Mitchell, William H. (See Hall, Benjamin K., assignor.)
- Mitchell, Willis, Malden, Mass., assignor to Willis Mitchell Company, Inc., New York, N. Y. Oil-gas burner. No. 1,136,886; Apr. 20; Gaz. vol. 213; p. 1075.
- Mitchell, Willis, Malden, Mass., assignor to Willis Mitchell Company, Inc., New York, N. Y. Steam-generator. No. 1,139,430; May 11; Gaz. vol. 214; p. 639.
- Mitchell, Willis, Malden, Mass., assignor to Willis Mitchell Company, Inc., New York, N. Y. Steam-generator. No. 1,139,431; May 11; Gaz. vol. 214; p. 639.
- Mitchell, Willis, Malden, Mass., assignor to Willis Mitchell Company, Inc., New York, N. Y. Steam-generator. No. 1,141,071; May 25; Gaz. vol. 214; p. 1283.
- Mitchell, Willis, Malden, Mass., assignor to Willis Mitchell Company, Inc., New York, N. Y. Gas-generator. No. 1,141,072; May 25; Gaz. vol. 214; p. 1284.
- Mitchella, Clyde B., assignor of one-half to W. A. Heaney, Akron, Ohio. Clutch. No. 1,141,648; June 1; Gaz. vol. 215; p. 200.
- Mitski, John, Avonmore, Pa. Padlock. No. 1,160,433; Nov. 16; Gaz. vol. 220; p. 795.
- Mittasch, Alwin. (See Bosch and Mittasch.)
- Mittasch, Alwin. (See Bosch, Mittasch, Wolf, and Stern.)
- Mittasch, Alwin. (See Haber, Bosch, and Mittasch.)
- Mittasch, Alwin, and C. Schneider, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing hydrogen. No. 1,128,804; Feb. 16; Gaz. vol. 211; p. 836.
- Mitten, Philip J., Oakwood Village, assignor to The Recording and Computing Machines Company, Dayton, Ohio. Seal. No. 1,139,556; May 18; Gaz. vol. 214; p. 718.
- Mittendorf, Max, assignor to Narrow Fabric Company, Wyomissing, Pa. Dress-weight. No. 1,147,880; July 27; Gaz. vol. 216; p. 1083.
- Mittinger, George E., Youngstown, Ohio, assignor of fifteen-sixteenths to Pressed Steel Products Company, Sharon, Pa. Spud for barrels. No. 1,136,698; Apr. 20; Gaz. vol. 213; p. 1009.
- Mitzimberg, Charles F., Kirksville, Mo. Jacket for rubber tires. No. 1,148,981; Aug. 3; Gaz. vol. 217; p. 176.
- Miwa, Zenebi. (See Kawai and Miwa.)
- Mix, Edward C., Long Beach, Cal. Sanitary kneading-board. No. 1,151,895; Aug. 31; Gaz. vol. 217; p. 1466.
- Mix, Frank E. (See Clapp, Arthur W., assignor.)
- Mix, Philip J., Boulder, Colo. Pocket-seat. No. 1,157,795; Oct. 26; Gaz. vol. 219; p. 981.
- Mix, Robert S., Atlanta, N. Y. Neck-yoke attachment. No. 1,146,643; July 13; Gaz. vol. 216; p. 605.
- Mixsell, Leighton N. D., Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Making explosive projectiles. No. 1,162,183; Nov. 30; Gaz. vol. 220; p. 1506.
- Mixsell, Leighton N. D., and C. J. Julstedt, Bethlehem, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Calsson and limber. No. 1,161,784; Nov. 23; Gaz. vol. 220; p. 1319.
- Miyake, Sakuya, San Francisco, Cal. Time-alarm. No. 1,163,942; Dec. 14; Gaz. vol. 221; p. 468.

Alphabetical list of patentees—Continued.

- Miyasaki, Yuske, McKees Rocks, Pa. Cast truck-bolster. No. 1,156,305; Oct. 12; Gaz. vol. 219; p. 363.
- Miyazaki, Kenichi, Tokyo, Japan. Treating tin-plate for canned provisions. No. 1,148,851; Aug. 3; Gaz. vol. 217; p. 131.
- Moad, Buren, Pattonsburg, Mo. Game. No. 1,162,637; Nov. 30; Gaz. vol. 220; p. 1658.
- Moad, John S., Dallas, Tex. Silo. No. 1,164,843; Dec. 21; Gaz. vol. 221; p. 824.
- Moake, Arthur, Marion, Ill. Safety-stirrup. No. 1,131,153; Mar. 9; Gaz. vol. 212; p. 489.
- Moakler, John W., assignor of one-half to N. S. Wright, East Worcester, N. Y. Pneumatic tire. No. 1,160,310; Nov. 16; Gaz. vol. 220; p. 754.
- Moats, Edwin C., Colorado City, Colo. Folding stove. No. 1,133,491; Mar. 30; Gaz. vol. 212; p. 1446.
- Moberg, Carl G., Chicago, Ill. Music-holder. No. 1,140,277; May 18; Gaz. vol. 214; p. 971.
- Moberg, Robert O., Richardson, Wis. Means for securing cutting sections or knives to sickle or cutter bars. No. 1,156,703; Oct. 12; Gaz. vol. 219; p. 506.
- Mobley, Edwin H., Roslyn, Pa. Sound-box for talking-machines. No. 1,145,499; July 6; Gaz. vol. 216; p. 183.
- Mobley, Sylvester H., Indianapolis, Ind. Wall-paper-pasting machine. No. 1,162,247; Nov. 30; Gaz. vol. 220; p. 1528.
- Mochau, Lars M., East Hartford, Conn. Automatic door-releasing apparatus. No. 1,165,436; Dec. 28; Gaz. vol. 221; p. 1069.
- Mochida, Suekichi, Upland, Cal. Fruit-picker's bag. No. 1,147,419; July 20; Gaz. vol. 216; p. 896.
- Mochow, Carl H. L., F. W., and H. J., Davenport, Iowa. Bolt-lock. No. 1,145,256; July 6; Gaz. vol. 216; p. 99.
- Mochow, Fritz W. (See Mochow, Carl H. L., F. W., and H. J.)
- Mochow, Hans J. (See Mochow, Carl H. L., F. W., and H. J.)
- Mock, Charles P., Quinlan, Okla. Match-lighter. No. 1,165,618; Dec. 28; Gaz. vol. 221; p. 1132.
- Mock, Frank C., Cleveland, Ohio. Apparatus for muffling sound. No. 1,144,306; June 22; Gaz. vol. 215; p. 1228.
- Mock, George, Bardstown, Ky. Gate. No. 1,136,157; Apr. 20; Gaz. vol. 213; p. 816.
- Mock, Hugo, New Brighton, N. Y. Fireless cooker. No. 1,160,939; Nov. 16; Gaz. vol. 220; p. 976.
- Mock, John H., Jetmore, Kans. Insect-destroyer. No. 1,133,567; Mar. 30; Gaz. vol. 212; p. 1475.
- Moek, Otto D., Louisville, Ky. Hose-rack. No. 1,155,262; Sept. 28; Gaz. vol. 218; p. 1109.
- Mocydarz, Thomas, Strathcona, Alberta, Canada. Lamp-signal for automobiles. No. 1,133,305; Mar. 30; Gaz. vol. 212; p. 1381.
- Model Form Company. (See Levis, Thomas S., assignor.)
- Modell, Max M., et al. (See Zaar, Ludwig W., assignor.)
- Modern Appliance Company. (See Wheeler, Lewis R., assignor.)
- Modern Bag Company. (See Fegely, Frederick W., assignor.)
- Modern Compressed Air Cleaning Co. (See Overholt, Edwin E., assignor.)
- Modern Construction Company. (See Goodwin, Frederick C., assignor.)
- Modern Die and Plate Press Manufacturing Company. (See Sabot, Frank, assignor.)
- Modern Pen Company. (See Van Valer, De Witt C., assignor.)
- Modranski, John, et al. (See Gepack, Paul, assignor.)
- Moe, Aaron B., Chicago, Ill., assignor to Otis and Moe Manufacturing Company. Poultry trap-nest. No. 1,162,381; Nov. 30; Gaz. vol. 220; p. 1573.
- Moe, Herman, Minneapolis, Minn. Egg-boiler. No. 1,149,590; Aug. 10; Gaz. vol. 217; p. 495.
- Moegenborg, Henry, Forest Hill, Mich. Hay-tedder attachment for mowing-machines. No. 1,124,499; Jan. 12; Gaz. vol. 210; p. 497.
- Moellendick, Philipp, New York, N. Y. Gas-stove attachment. No. 1,142,603; June 8; Gaz. vol. 215; p. 570.
- Moeller, Isak. (See Hansson and Moeller.)
- Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Fire-proof and waterproof covering and making same. No. 1,141,136; June 1; Gaz. vol. 215; p. 16.
- Moellering, Christian H. W., Newark, N. J. Nasal irrigator. No. 1,126,827; Feb. 2; Gaz. vol. 211; p. 58.
- Moen, Hardy, New Edington, S. D. Drag-cart. No. 1,152,200; Aug. 31; Gaz. vol. 217; p. 1570.
- Moen, John F., New York, N. Y. Explosive-engine. No. 1,149,670; Aug. 10; Gaz. vol. 217; p. 528.
- Moen, Thorey I., Chippewa Falls, Wis. Animal-trap. No. 1,141,815; June 1; Gaz. vol. 215; p. 254.
- Moench, Frederick, Rushville, Ill. Plating or decorating chinaware or glassware. No. 1,157,569; Oct. 19; Gaz. vol. 219; p. 838.
- Moench, Frederick, Rushville, Ill. Cartridge-stop for magazine-shotguns. No. 1,157,571; Oct. 19; Gaz. vol. 219; p. 839.
- Moench, Frederick, Rushville, Ill. Vulcanizing and attaching rubber. No. 1,157,572; Oct. 19; Gaz. vol. 219; p. 839.
- Moench, Frederick, Rushville, Ill. Plating cast iron or steel. No. 1,165,338; Dec. 21; Gaz. vol. 221; p. 995.
- Moench, Frederick, Rushville, Ill. Air-cooled motor. No. 1,165,339; Dec. 21; Gaz. vol. 221; p. 995.
- Moeng, Edward D. (See Williams, Edward C., assignor.)
- Moerbe, Herman, Giddings, Tex. Nut-lock. No. 1,158,260; Oct. 26; Gaz. vol. 219; p. 1144.
- Moeschl-Edwards Corrugating Company, The. (See Edwards, Christopher B., assignor.)
- Moeschl-Edwards Corrugating Company, The. (See Probert, Edwin R., assignor.)
- Moessner, Otto, Philadelphia, Pa. Combined bushing and clamp for electric cables. No. 1,161,150; Nov. 23; Gaz. vol. 220; p. 1096.
- Moest, Martin, Bodio, Switzerland, and M. Eckardt, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Preparing nitric acid of high concentration. No. 1,145,162; July 6; Gaz. vol. 216; p. 66.
- Moewes, Ernst, Marienfelde, near Berlin, assignor to Daimler-Motoren-Gesellschaft, Unterturkheim, Germany. Retarding mechanism for motor-vehicles. No. 1,144,372; June 29; Gaz. vol. 215; p. 1279.
- Moffat, Albert S., Belmont, Mass., assignor to Kunz-Garniss Company. Telephone-receiver. No. 1,152,536; Sept. 7; Gaz. vol. 218; p. 58.
- Moffat, Walter A., Erie, Pa. Superheater. No. 1,144,911; June 29; Gaz. vol. 215; p. 1462.
- Moffat, Walter A., Erie, Pa. Feed-water system. No. 1,162,638; Nov. 30; Gaz. vol. 220; p. 1658.
- Moffat, Walter A., Erie, Pa. Steam-boiler. No. 1,166,238; Dec. 28; Gaz. vol. 221; p. 1354.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Chain-stitch sewing-machine. No. 1,127,067; Feb. 2; Gaz. vol. 211; p. 142.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing-machines. No. 1,135,708; Apr. 13; Gaz. vol. 213; p. 619.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,135,709; Apr. 13; Gaz. vol. 213; p. 620.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for multiple-needle machines. No. 1,139,051; May 11; Gaz. vol. 214; p. 507.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Device for controlling the upper threads on sewing-machines. No. 1,139,793; May 18; Gaz. vol. 214; p. 802.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,141,476; June 1; Gaz. vol. 215; p. 140.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Shirring presser-foot for sewing-machines. No. 1,144,228; June 22; Gaz. vol. 215; p. 1200.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing-machines. No. 1,145,604; July 6; Gaz. vol. 216; p. 219.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,145,605; July 6; Gaz. vol. 216; p. 219.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Combined stripper and thread-cutter for sewing-machines. No. 1,150,614; Aug. 17; Gaz. vol. 217; p. 922.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Controlling device for operating implements in sewing-machines. No. 1,157,170; Oct. 19; Gaz. vol. 219; p. 699.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Plaiting attachment for sewing-machines. No. 1,166,237; Dec. 28; Gaz. vol. 221; p. 1353.
- Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,157,891; Oct. 26; Gaz. vol. 219; p. 1015.
- Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Needle-guard for sewing-machines. No. 1,157,892; Oct. 26; Gaz. vol. 219; p. 1016.
- Moffatt, John A., Sutton, N. D. T-square. No. 1,149,277; Aug. 10; Gaz. vol. 217; p. 384.
- Moffet, William G., Chicago, Ill. Automatic machine. No. 1,162,301; Nov. 30; Gaz. vol. 220; p. 1546.
- Moffet, William G., Chicago, Ill. Automatic stacker. No. 1,162,302; Nov. 30; Gaz. vol. 220; p. 1547.
- Moffett, Marcus H., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electrode for projection apparatus. No. 1,165,619; Dec. 28; Gaz. vol. 221; p. 1133.
- Moffitt, Allison, assignor of one-fourth to J. Dillon, one-fourth to W. Ward, and one-fourth to M. C. Francis, Galetan, Pa. Spring. No. 1,150,289; Aug. 17; Gaz. vol. 217; p. 810.
- Moffitt, Frank A., Chicago, Ill. Life-saving suit. No. 1,123,912; Jan. 5; Gaz. vol. 210; p. 244.
- Mogle, James A., Mishawaka, Ind. Shoemaker's jack. No. 1,134,889; Apr. 6; Gaz. vol. 213; p. 289.
- Mogren, Arthur W. (See Erickson and Mogren.)
- Mogvorós, George S., Dayton, Ohio. Elevator safety device. No. 1,157,322; Oct. 19; Gaz. vol. 219; p. 754.
- Mohl, Emanuel N. (See Mark and Mohl.)

Alphabetical list of patentees—Continued.

- Mohler, Jacob K., Ephrata, Pa. Stove. No. 1,139,211; May 11; Gaz. vol. 214; p. 563.
- Mohn, John, Detroit, Mich. Seal-retainer. No. 1,123,569; Jan. 5; Gaz. vol. 210; p. 126.
- Mohn, Rudolph, Sulgen, Switzerland. Calculating-machine. No. 1,145,386; July 6; Gaz. vol. 216; p. 143.
- Mohr, Albert. (See Brown, Thomas A., assignor.)
- Mohr, Clinton H., Allentown, Pa. Game apparatus. No. 1,125,867; Jan. 19; Gaz. vol. 210; p. 1019.
- Mohr, Josef, Aschaffenburg-on-the-Main, Germany. Type-writer. No. 1,127,487; Feb. 9; Gaz. vol. 211; p. 330.
- Mohr, Karl, assignor to L. M. Owen, Bedford, Ind. Railway-tie. No. 1,165,274; Dec. 21; Gaz. vol. 221; p. 974.
- Mohr, William J. (See Holmes, Alfred E., assignor.)
- Mohun, John L. (See Elvin and Mohun.)
- Mohun, John L. (See Martin, Frederick W., assignor.)
- Mohun, John L., Brooklyn, N. Y. Car-roof. No. 1,155,604; Oct. 5; Gaz. vol. 219; p. 97.
- Moine, Selsest E., Tulla, Tex. Vignetter for cameras. No. 1,155,080; Sept. 28; Gaz. vol. 218; p. 1049.
- Moinett, Frank, assignor to Superior Register Company, Canistota, N. Y. File or account register. No. 1,158,531; Nov. 2; Gaz. vol. 220; p. 43.
- Molr, Robert. (See Beltz and Molr.)
- Moise, Leonard C. (See Duplantis, Gaston A., assignor.)
- Molander, Hans P., Ocean Park, Cal. Clutch. No. 1,161,325; Nov. 23; Gaz. vol. 220; p. 1160.
- Molassine Company, The. (See Eastick and De Whalley, assignors.)
- Moldenhauer, Frederick W., assignor to Wisconsin Stable Equipment Company, Oconomowoc, Wis. Stanchion. No. 1,129,414; Feb. 23; Gaz. vol. 211; p. 1088.
- Moldenhauer, Frederick W., Oconomowoc, and S. E. Jones, Hustisford, assignors to Wisconsin Stable Equipment Company, Oconomowoc, Wis. Stall equipment. No. 1,154,715; Sept. 21; Gaz. vol. 218; p. 924.
- Moler, Abraham L., et al. (See Barber, Martin A., assignor.)
- Moler, Abraham L., assignor of two-fifths to I. G. Clayton and two-fifths to M. A. Barber, Montreal, Quebec, Canada. Automatic train-pipe coupling. No. 1,161,403; Nov. 23; Gaz. vol. 220; p. 1189.
- Moles, John, Erie, assignor to The Eureka Company, North East, Pa. Commutator-turning tool. No. 1,158,532; Nov. 2; Gaz. vol. 220; p. 44.
- Molesworth, Clyde E., Los Angeles, Cal. Refrigerating apparatus. No. 1,128,482; Feb. 16; Gaz. vol. 211; p. 726.
- Molesworth, Clyde E., Los Angeles, Cal. Rectifier for refrigerating apparatus. No. 1,128,483; Feb. 16; Gaz. vol. 211; p. 726.
- Molhant, Alfred, Mons, Belgium. Fermentation. No. 1,124,500; Jan. 12; Gaz. vol. 210; p. 498.
- Molhant, Alfred, Mons, Belgium. Saccharification and fermentation of amylaceous substances. No. 1,134,281; Apr. 6; Gaz. vol. 213; p. 73.
- Molin, John A. (See Miller and Molin.)
- Molina, Edward C., East Oragne, N. J., assignor to American Telephone and Telegraph Company. Indicating system. No. 1,144,560; June 29; Gaz. vol. 215; p. 1342.
- Molina, Joseph, and H. Asor, New Haven, Conn. Fruit and vegetable juice expresser. No. 1,127,910; Feb. 9; Gaz. vol. 211; p. 478.
- Moline Automobile Co. (See Gruenewald, Eugene, assignor.)
- Moline Plow Company. (See Lindgren, Alexis C., assignor.)
- Moline Plow Company, The. (See Miller, Charles K., assignor.)
- Moline Plow Company. (See Smith, Orbin F., assignor.)
- Moline Vacuum-Vapor Heating Co. (See Shurtleff, Wilfred, assignor.)
- Molins, Walter E., London, England. Feeding device for packet-making machines. No. 1,144,772; June 29; Gaz. vol. 215; p. 1415.
- Molkenthin, Joseph, Jr., assignor to Clark Blade & Razor Company, Newark, N. J. Safety-razor. No. 1,146,945; July 20; Gaz. vol. 216; p. 730.
- Moll, Frank O., Portland, Ore. Furnace. No. 1,132,373; Mar. 16; Gaz. vol. 212; p. 958.
- Moll, William E., assignor to S. Rosenau & Company, Philadelphia, Pa. Winding-machine. No. 1,137,514; Apr. 27; Gaz. vol. 213; p. 1339.
- Mollan, Charles G., Chicago, Ill. Combined lamp-bracket and signal. No. 1,145,843; July 6; Gaz. vol. 216; p. 304.
- Mollart, Lobegott, assignor to G. B. Lewis Company, Watertown, Wis. Beehive. No. 1,159,785; Nov. 9; Gaz. vol. 220; p. 516.
- Mollenbrück, Franz M. E. von, Linz-on-the-Danube, Austria-Hungary. Artificial-stone slab, plate, and the like. No. 1,139,334; May 18; Gaz. vol. 214; p. 852.
- Mollenhauer, William F. T., and H. E. Leach, Owatonna, Minn. Rosin-holder. No. 1,137,414; Apr. 27; Gaz. vol. 213; p. 1305.
- Möller, Adele, Hamburg, Germany. Horseshoe. No. 1,165,437; Dec. 28; Gaz. vol. 221; p. 1069.
- Moller, Christian C., and J. J. Bollerup, Audubon, Iowa. Beet-harvester. No. 1,155,319; Sept. 28; Gaz. vol. 218; p. 1128.
- Moller, Edward M., Jersey City, N. J. Rotary sweeper. No. 1,133,653; Mar. 30; Gaz. vol. 212; p. 1507.
- Moller, Edvard M., Jersey City, N. J. Step raising and lowering device for railway-cars. No. 1,163,359; Dec. 7; Gaz. vol. 221; p. 219.
- Möller, Franz E. W., Adelaide, South Australia, Australia. Footwear. No. 1,166,239; Dec. 28; Gaz. vol. 221; p. 1355.
- Möller, Gustav. (See Christlein and Möller.)
- Moller, H. Esk, et al., executors. (See Kendall, Edward D., assignor.)
- Möller, Karl, St. Paul, Minn. Table. No. 1,126,250; Jan. 26; Gaz. vol. 210; p. 1193.
- Moller, Kenneth, Providence, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Circular-knitting machine. No. 1,123,779; Jan. 5; Gaz. vol. 210; p. 199.
- Möller, Leopold. (See Hengelhaupt and Möller.)
- Moller, Feder T., Seattle, Wash. Cuff-holder. No. 1,163,943; Dec. 14; Gaz. vol. 221; p. 469.
- Mollison, Allen R., Enderlin, N. D. Ventilating-screen. No. 1,127,068; Feb. 2; Gaz. vol. 211; p. 142.
- Molnar, Anton, South Bend, Ind. Toy wheelbarrow. No. 1,139,432; May 11; Gaz. vol. 214; p. 639.
- Moloney, Simon J., Chicago, Ill. Screw. No. 1,152,960; Sept. 7; Gaz. vol. 218; p. 214.
- Molyneux, George E., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,127,069; Feb. 2; Gaz. vol. 211; p. 142.
- Molyneux, George E., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Chain-stitch sewing-machine. No. 1,151,528; Aug. 24; Gaz. vol. 217; p. 1291.
- Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Loooper mechanism for sewing-machines. No. 1,127,795; Feb. 9; Gaz. vol. 211; p. 437.
- Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Loooper mechanism for sewing-machines. No. 1,128,484; Feb. 16; Gaz. vol. 211; p. 726.
- Molyneux, George E., Bayonne, and G. S. Gatchell, Roselle Park, N. J., assignors to Singer Manufacturing Company. Seam-guide for sewing-machines. No. 1,124,320; Jan. 12; Gaz. vol. 210; p. 432.
- Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,146,437; July 13; Gaz. vol. 216; p. 533.
- Momenee, Edward J., Lima, Ohio. Candy-coating machine. No. 1,166,240; Dec. 28; Gaz. vol. 221; p. 1355.
- Momo, Cesare, Genoa, Italy. Internal-combustion motor. No. 1,160,940; Nov. 16; Gaz. vol. 220; p. 977.
- Monahan, Francis A., London, England. Sleeve-form. No. 1,125,587; Jan. 19; Gaz. vol. 210; p. 919.
- Monahan, Frank J., Joliet, Ill. Open-type bucket for excavating-machines. No. 1,131,071; Mar. 9; Gaz. vol. 212; p. 461.
- Monahan, Louis J., Oshkosh, Wis. Power-propelled cultivator. No. 1,124,162; Jan. 5; Gaz. vol. 210; p. 328.
- Monahan, Louis J., Oshkosh, Wis. Nut-cutting machine. No. 1,150,219; Aug. 17; Gaz. vol. 217; p. 784.
- Monahan, Louis J., and C. J. Pope, Oshkosh, Wis. Making soy-milk. No. 1,165,199; Dec. 21; Gaz. vol. 221; p. 948.
- Monarch Metal Weather Strip Company. (See Lane, Alfred M., assignor.)
- Monarch Steel Castings Company. (See Giberson, Mason B., assignor.)
- Monarch Steel Castings Company. (See Giberson and Roberts, assignors.)
- Monarch Tag Company, The. (See Kohnle, Frederick, assignor.)
- Monarch Telephone Manufacturing Company. (See Steinke, August W., assignor.)
- Monarch Tool & Machinery Company. (See Dobes, Joseph J., assignor.)
- Monarch Typewriter Company, The. (See Brand, George B., assignor.)
- Monarch Typewriter Company, The. (See Steele, Herbert H., assignor.)
- Monard, Armand, New York, N. Y. Fiber-phonograph-needle cutter. No. 1,159,246; Nov. 2; Gaz. vol. 220; p. 291.
- Monasch, Gustav. (See Olm, Oscar J., assignor.)
- Monchamp, Raoul J. B., Manchester, N. H. Attachment for edge-setting machines. No. 1,138,884; May 11; Gaz. vol. 214; p. 447.
- Moncrief, Henry A. (See Graves, Joseph C., assignor.)
- Monesmith, Bert L. (See Cutler and Monesmith.)
- Monette, Francis. (See Laurier and Monette.)
- Monette, Louise, New Rochelle, N. Y. Tea and other spout-provided kettle. No. 1,137,515; Apr. 27; Gaz. vol. 213; p. 1339.
- Money, Benjamin F. (See Terry and Money.)
- Mongardi, Giovanni, Boston, Mass. Revolver. No. 1,124,312; Jan. 12; Gaz. vol. 210; p. 429.
- Monitor Controller Company. (See Whittingham, George H., assignor.)
- Monitor Drill Company. (See Beeman and Brennan, assignors.)
- Monitor Drill Company. (See Brennan, Thomas, Jr., assignor.)
- Monitor Manufacturing Company. (See Whittingham and Holmes, assignors.)

Alphabetical list of patentees—Continued.

- Monitor Manufacturing Company of Baltimore City. (See Whittingham, George H., assignor.)
- Monitor Stove & Range Company, The. (See Doyle and Wollenhaupt, assignor.)
- Monitor Time Clock Co. (See Hawley, William D., assignor.)
- Monjo, Joseph, New York, N. Y. Hat-pin-point protector. No. 1,134,401; Apr. 6; Gaz. vol. 213; p. 116.
- Monks, Allan B. (See Lee and Monks.)
- Monks-Ripley Pile Company. (See Ripley, John W., assignor.)
- Monnich, Bernard, Hooper, Nebr. Combined front-axle support and shock-absorber for motor-cars. No. 1,147,744; July 27; Gaz. vol. 216; p. 1036.
- Monnot, John F., Paris, France. Electric switch. No. 1,155,364; Oct. 5; Gaz. vol. 219; p. 14.
- Monnot, John F., New York, N. Y., assignor, by mesne assignments, to Duplex Metallic Company. Alloy-surfaced metal. No. 1,156,169; Oct. 12; Gaz. vol. 219; p. 319.
- Monosmith, David J., Spencer, Ohio. Incandescing burner. No. 1,145,500; July 6; Gaz. vol. 216; p. 183.
- Monosmith, Olney B., Lorain, Ohio. Carbureter. No. 1,125,368; Jan. 19; Gaz. vol. 210; p. 844.
- Monro, Arthur R., Berkeley, Cal. Automatically-variable gearing. No. 1,139,433; May 11; Gaz. vol. 214; p. 640.
- Monro, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Glass-cutter. No. 1,124,784; Jan. 12; Gaz. vol. 210; p. 599.
- Monro, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Method and apparatus for drawing glass. No. 1,125,588; Jan. 19; Gaz. vol. 210; p. 920.
- Monro, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Glass-drawing-pot trunnion. No. 1,143,296; June 15; Gaz. vol. 215; p. 852.
- Monro, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Regenerative glass-drawing furnace. No. 1,157,246; Oct. 19; Gaz. vol. 219; p. 728.
- Monro, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Method of and apparatus for drawing glass sheets. No. 1,164,007; Dec. 14; Gaz. vol. 221; p. 490.
- Monroe, Frank A., Jamestown, N. Y. Machine for saving gold. No. 1,124,501; Jan. 12; Gaz. vol. 210; p. 498.
- Monroe, Fred K. (See Haggerty and Monroe.)
- Monroe, Henry, Sabetha, Kans. Tide-motor. No. 1,142,724; June 8; Gaz. vol. 215; p. 608.
- Monroe, Henry, Jr., Fairview, Kans. Grain-rake. No. 1,135,831; Apr. 13; Gaz. vol. 213; p. 663.
- Monroe, Nathaniel S., Arthur, Ill. Road-working machine. No. 1,131,409; Mar. 9; Gaz. vol. 212; p. 577.
- Monroe, Nathaniel S., Arthur, Ill. Truck for road-leveling machines. No. 1,133,875; Mar. 30; Gaz. vol. 212; p. 1587.
- Monroe, Nathaniel S., Arthur, Ill. Road-working machine. No. 1,133,876; Mar. 30; Gaz. vol. 212; p. 1587.
- Monroe, Nathaniel S., Arthur, Ill. Road-working machine. No. 1,133,877; Mar. 30; Gaz. vol. 212; p. 1588.
- Monroe, Paul L., Watstown, Pa. Match-box. No. 1,157,951; Oct. 26; Gaz. vol. 219; p. 1036.
- Monroe, Philip E., Weymouth, Mass. Water-closet for yachts and other small boats. No. 1,139,700; May 18; Gaz. vol. 214; p. 770.
- Monroe, Will K., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for clamping cars in tipples. No. 1,126,550; Jan. 26; Gaz. vol. 210; p. 1301.
- Monroe, William S., and B. Schroeder, Chicago, Ill. Water-gate for boilers. No. 1,148,523; Aug. 3; Gaz. vol. 217; p. 13.
- Monsees, Starr V., Smithton, Mo. Headlight. No. 1,140,998; May 25; Gaz. vol. 214; p. 1260.
- Monsees, Thomas A., New York, assignor of one-half to W. Stempel, Brooklyn, N. Y. Window-lock. No. 1,148,705; Aug. 3; Gaz. vol. 217; p. 79.
- Monsen, Adolph, assignor of one-half to G. C. Rew, Chicago, Ill. Automobile traction device. No. 1,147,035; July 20; Gaz. vol. 216; p. 761.
- Monstroth, Charles, Skibo, Minn. Safety-lock. No. 1,127,272; Feb. 2; Gaz. vol. 211; p. 214.
- Montag, Christoph F., assignor to Blue Island Specialty Company, Blue Island, Ill. Orthodontia appliance. No. 1,140,759; May 25; Gaz. vol. 214; p. 1174.
- Montague, Hubert H., Traverse City, Mich. Lawn-mower. No. 1,153,943; Sept. 21; Gaz. vol. 218; p. 631.
- Montague, John W., Winnipeg, Manitoba, Canada. Ignition-magneto driving coupling. No. 1,150,694; Aug. 17; Gaz. vol. 217; p. 950.
- Montague Mailing Machinery Co. (See Griswold, Robert G., assignor.)
- Montague Mailing Machinery Co. (See Lee, Ulysses G., assignor.)
- Montague Mailing Machinery Company. (See Fergusson, Alan R., assignor.)
- Montague Mailing Machinery Company. (See Owens, Charles, assignor.)
- Montana-Tonopah Mines Co., The. (See Osgood, Charles G., assignor.)
- Montbarbon, Philippe, assignor to Societe Anonyme Montbarbon, Neuilly-sur-Seine, France. Cooling system for internal-combustion engines. No. 1,155,950; Oct. 5; Gaz. vol. 219; p. 217.
- Montclair Refrigerating Corporation. (See Hapgood, Cyrus H., assignor.)
- Monteagle, Robert C., West Newton, Mass. Pipe-strainer. No. 1,152,831; Sept. 7; Gaz. vol. 218; p. 166.
- Monteleone, Ernest, Jersey City, N. J. Cash-box. No. 1,156,919; Oct. 19; Gaz. vol. 219; p. 610.
- Montfort, J. T., et al. (See Holsey, Walter R., assignor.)
- Montgomery, Charles R. (See Bean, Jesse A., assignor.)
- Montgomery, Forest H., East Orange, N. J. Binder for loose-leaf ledgers. No. 1,129,110; Feb. 23; Gaz. vol. 211; p. 981.
- Montgomery, Frank, Centralia, Wash. Suspended railway for carrying logs, &c. No. 1,128,029; Feb. 9; Gaz. vol. 211; p. 520.
- Montgomery, Frank C. (See Linton, George E., assignor.)
- Montgomery, Gustavus A., assignor of one-fourth to J. Barnett, Oilfields, Cal. Drive-shoe. No. 1,153,811; Sept. 14; Gaz. vol. 218; p. 550.
- Montgomery, Gustavus A., assignor of one-third to R. H. Stichel, Oilfields, Cal. Rope-socket. No. 1,153,812; Sept. 14; Gaz. vol. 218; p. 550.
- Montgomery, Henry S. (See Carmichael, Archibald D., assignor.)
- Montgomery, James R., Frankfort, Kans. Coal-cleaner. No. 1,140,999; May 25; Gaz. vol. 214; p. 1261.
- Montgomery, James W., Metcalf, Ga. Flow. No. 1,147,420; July 20; Gaz. vol. 216; p. 897.
- Montgomery, Lydia, Colville, Wash. Sanitary lunch-box. No. 1,137,160; Apr. 27; Gaz. vol. 213; p. 1212.
- Montgomery, Mabel H. (See Montgomery, Walter L. and M. H.)
- Montgomery, Miriam, Mankota, Minn. Anticolic-nurser. No. 1,165,275; Dec. 21; Gaz. vol. 221; p. 974.
- Montgomery, Percy W., Sydney, New South Wales, Australia. Magnetic water-level indicator for steam-boilers. No. 1,128,812; Feb. 16; Gaz. vol. 211; p. 840.
- Montgomery, Robert J., Chicago, Ill. Automobile washing-brush. No. 1,133,390; Mar. 30; Gaz. vol. 212; p. 1412.
- Montgomery, Stewart K., Cullom, Ill. Gear-shifting mechanism. No. 1,127,664; Feb. 9; Gaz. vol. 211; p. 387.
- Montgomery, Thomas H. (See Godbersson and Montgomery.)
- Montgomery, Walter L. and M. H., Chicago, Ill. Carton filling and sealing machine. No. 1,165,695; Dec. 28; Gaz. vol. 221; p. 1160.
- Montgomery-Washburn Company. (See Pellant, Adolph N., assignor.)
- Montgomery, William E., Lewiston, Me., assignor to Rockwood Sprinkler Company. Automatic sprinkling system. No. 1,141,477; June 1; Gaz. vol. 215; p. 140.
- Montgomery, William J., Jeannette, Pa., assignor to The Jeffrey Manufacturing Company. Fan-blower. No. 1,136,827; Apr. 20; Gaz. vol. 213; p. 1055.
- Monti, Eudo, Turin, Italy. Clarifying and concentrating fruit-juices. No. 1,158,261; Oct. 26; Gaz. vol. 219; p. 1144.
- Montine, Joseph F., Nevinville, Iowa. Front-wheel drive for automobiles. No. 1,132,861; Mar. 23; Gaz. vol. 212; p. 1186.
- Montine, Joseph F., Nevinville, Iowa. Sleigh attachment for automobiles. No. 1,132,862; Mar. 23; Gaz. vol. 212; p. 1187.
- Montine, Joseph F., Nevinville, Iowa. Collection and delivery apparatus. No. 1,132,863; Mar. 23; Gaz. vol. 212; p. 1187.
- Montis, Jean. (See Gougnet and Montis.)
- Montmeat, John D., et al. (See Hammond, Robert O., assignor.)
- Monto, Joseph, Cleveland, Ohio. Galvanizing apparatus. No. 1,124,785; Jan. 12; Gaz. vol. 210; p. 600.
- Montre, Kate B., North San Juan, Cal. Corset-steel. No. 1,144,912; June 29; Gaz. vol. 215; p. 1463.
- Montrief, James V., Bridgeport, Tex. Brick-kiln. No. 1,146,197; July 13; Gaz. vol. 216; p. 448.
- Montsabrè, Philippe, Fresno, Cal. Triple-rail endless track. No. 1,149,278; Aug. 10; Gaz. vol. 217; p. 384.
- Moock, Jacob J., Orrville, Ohio. Valve-gear. No. 1,132,207; Mar. 16; Gaz. vol. 212; p. 897.
- Moody, Andrew G., Elgin, Ill. Envelop-feed device. No. 1,127,796; Feb. 9; Gaz. vol. 211; p. 438.
- Moody, Rufus E., Nova, Ohio. Mail-bag crane. No. 1,145,257; July 6; Gaz. vol. 216; p. 99.
- Moody, Thomas A. (See McCall, James L., assignor.)
- Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. Reactive coil. No. 1,132,281; Mar. 16; Gaz. vol. 212; p. 926.
- Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company. Three-phase transformer. No. 1,141,199; June 1; Gaz. vol. 215; p. 38.
- Mooklar, Edward J., Honolulu, Hawaii. Producing a food product. No. 1,141,816; June 1; Gaz. vol. 215; p. 255.
- Moon, Arch. Fallon, Nev. Single-spoke-cushion wheel. No. 1,143,427; June 15; Gaz. vol. 215; p. 899.
- Moon, Charles L., and I. Bell, Joplin, Mo. Tape-moistening machine. No. 1,139,557; May 18; Gaz. vol. 214; p. 718.

Alphabetical list of patentees—Continued.

- Moon, George W., St. Louis, Mo. Sewer-trap. No. 1,137,516; Apr. 27; Gaz. vol. 213; p. 1339.
- Moon-Hopkins Billing Machine Company. (See Hopkins, William W., assignor.)
- Moon-Hopkins Billing Machine Company. (See Thieme, Otto, assignor.)
- Moon, J. N. (See Fleming, Thomas V., assignor.)
- Moon, John. New Munich, Minn. Boiler-leveler for traction-engines. No. 1,129,221; Feb. 23; Gaz. vol. 211; p. 1019.
- Moon, Joseph W. (See Lewis and Moon.)
- Mooney, Arnold J., Denver, Colo. Protective tire-covering. No. 1,164,545; Dec. 14; Gaz. vol. 221; p. 678.
- Mooney, Arnold J., Denver, Colo., assignor to The National Automatic Level and Instrument Company. Leveling instrument. No. 1,164,544; Dec. 14; Gaz. vol. 221; p. 678.
- Mooney, Monroe J., Cincinnati, Ohio. Furnace. No. 1,136,828; Apr. 20; Gaz. vol. 213; p. 1056.
- Mooney, Thomas, Douglaston, N. Y. Liquid door-check. No. 1,123,780; Jan. 5; Gaz. vol. 210; p. 199.
- Mooney, Thomas H., San Antonio, Tex., assignor of one-half to S. F. Sullivan, St. Louis, Mo. Flexible joint. No. 1,160,639; Nov. 16; Gaz. vol. 220; p. 871.
- Mooney, William A., assignor of one-third to W. T. Gresset and one-third to A. N. Pollard, Richmond, Va. Cigar-wrapping machine. No. 1,125,149; Jan. 19; Gaz. vol. 210; p. 764.
- Moore, William J., Damascus, Va. Stove-rack. No. 1,128,485; Feb. 16; Gaz. vol. 211; p. 727.
- Moore, Albert S., Sault Ste. Marie, Ontario, Canada. Beet-harvesting machine. No. 1,130,922; Mar. 9; Gaz. vol. 212; p. 411.
- Moore, Alexander M., Providence, R. I. Window-blind-slat holder. No. 1,124,163; Jan. 5; Gaz. vol. 210; p. 328.
- Moore, Ambrose L. and G. D., New Orleans, La. Stump cutting machine. No. 1,164,659; Dec. 21; Gaz. vol. 221; p. 758.
- Moore, Anna M., et al., trustees. (See Moore, Van Zandt M., assignor.)
- Moore Architectural and Engineering Company, The. (See Heller, Charles S., assignor.) (Reissue.)
- Moore, Arthur H., assignor to Bridgeport Brass Company, Bridgeport, Conn. Plumber's spud. No. 1,126,058; Jan. 26; Gaz. vol. 210; p. 1121.
- Moore, Arthur L., assignor to Moore Drop Forging Company, Springfield, Mass. Machine for drilling wrench-bars. No. 1,125,868; Jan. 19; Gaz. vol. 210; p. 1019.
- Moore, Benton, Cherryvale, assignor of one-third to N. Moore, Parsons, Kans. Screen-door attachment. No. 1,158,533; Nov. 2; Gaz. vol. 220; p. 44.
- Moore, Brice M., Hannibal, Mo. Washboard. No. 1,160,746; Nov. 16; Gaz. vol. 220; p. 910.
- Moore, Byron E., Slater, Mo. Wrench. No. 1,155,673; Oct. 5; Gaz. vol. 219; p. 121.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,032; May 4; Gaz. vol. 214; p. 108.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,034; May 4; Gaz. vol. 214; p. 108.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,035; May 4; Gaz. vol. 214; p. 109.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-furnace. No. 1,138,037; May 4; Gaz. vol. 214; p. 110.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,038; May 4; Gaz. vol. 214; p. 110.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,039; May 4; Gaz. vol. 214; p. 110.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,040; May 4; Gaz. vol. 214; p. 111.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-furnace arch. No. 1,138,041; May 4; Gaz. vol. 214; p. 111.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,042; May 4; Gaz. vol. 214; p. 111.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,046; May 4; Gaz. vol. 214; p. 113.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,047; May 4; Gaz. vol. 214; p. 113.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,048; May 4; Gaz. vol. 214; p. 114.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,049; May 4; Gaz. vol. 214; p. 114.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,050; May 4; Gaz. vol. 214; p. 115.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,051; May 4; Gaz. vol. 214; p. 115.
- Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,052; May 4; Gaz. vol. 214; p. 115.
- Moore, Charles B., Evanston, Ill., assignor to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,160,434; Nov. 16; Gaz. vol. 220; p. 795.
- Moore, Charles C., Washington, D. C., assignor of one-half to F. C. Stevens. Manufacture of starch. No. 1,156,801; Oct. 12; Gaz. vol. 219; p. 538.
- Moore, Charles E., New York, N. Y., assignor, by mesne assignments, to Elevator Supply & Repair Company. Threshold-illuminator. No. 1,164,301; Dec. 14; Gaz. vol. 221; p. 592.
- Moore, Charles J., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Robe-support. No. 1,143,772; June 22; Gaz. vol. 215; p. 1039.
- Moore, Charles J. L., Merrow, near Guildford, England. Variable-speed gearing. No. 1,124,783; Jan. 12; Gaz. vol. 210; p. 599.
- Moore, Charles P., assignor of one-sixth to J. F. White, one-sixth to C. D. Flook, one-sixth to W. A. Holford, one-sixth to H. J. Castle, and one-sixth to H. W. Jones, Garland, Tex. Truck-gear for vehicles. No. 1,160,941; Nov. 16; Gaz. vol. 220; p. 977.
- Moore, Charles R., La Fayette, Ind. Recording instrument. No. 1,155,501; Oct. 5; Gaz. vol. 219; p. 63.
- Moore, Charles R., La Fayette, Ind. Electromagnet. No. 1,155,502; Oct. 5; Gaz. vol. 219; p. 63.
- Moore, Charles S., Danvers, Mass. Milking-machine. No. 1,148,706; Aug. 3; Gaz. vol. 217; p. 80.
- Moore, Charles T., Washington, D. C., assignor, by mesne assignments, to J. G. Coffin, trustee. Machine for making composing-ribbons for automatic typographic machines. No. 1,136,081; Apr. 20; Gaz. vol. 213; p. 789.
- Moore, Chauncey H., Bloomfield, Nebr. Cultivator. No. 1,128,486; Feb. 16; Gaz. vol. 211; p. 727.
- Moore, Chauncey H., assignor of one-fourth to G. L. Holtzapple, one-fourth to F. M. Weaver, and one-fourth to R. A. Holden, Bellwood, Pa. Smoke-consuming furnace. No. 1,154,877; Sept. 28; Gaz. vol. 218; p. 977.
- Moore, Clara C., Jacksonville, Ill. Cake-cooler. No. 1,143,644; June 22; Gaz. vol. 215; p. 997.
- Moore, Claude, Taft, Cal. Fishing-tool. No. 1,152,335; Aug. 31; Gaz. vol. 217; p. 1617.
- Moore, Clement F., Chicago, Ill. Brake-rigging. No. 1,147,036; July 20; Gaz. vol. 216; p. 762.
- Moore, Cornie C. (See Topliff, Willis J., assignor.)
- Moore, Daniel E. and E. V., assignors of one-third to J. H. Jones, Baldwin, Miss. Support for containers of milk and cream. No. 1,166,241; Dec. 28; Gaz. vol. 221; p. 1355.
- Moore, David P. (See Hullings and Moore.)
- Moore Drop Forging Company. (See Moore, Arthur L., assignor.)
- Moore, Edward, Syracuse, N. Y. Motor-tractor. No. 1,150,290; Aug. 17; Gaz. vol. 217; p. 811.
- Moore, Edward Y., Cleveland, Ohio. Hoisting mechanism. No. 1,130,420; Mar. 2; Gaz. vol. 212; p. 202.
- Moore, Edward Y., Cleveland, Ohio. Trolley. No. 1,136,699; Apr. 20; Gaz. vol. 213; p. 1010.
- Moore, Edward Y., Cleveland, Ohio. Mechanism for bending structural shapes. No. 1,139,434; May 11; Gaz. vol. 214; p. 640.
- Moore, Emory V. (See Moore, Daniel E. and E. V.)
- Moore, Eugene A., Unadilla, N. Y. Striping device. No. 1,159,979; Nov. 9; Gaz. vol. 220; p. 585.
- Moore, Evan L., Philadelphia, Pa. Composition for use as a protective coating for the hands. No. 1,149,777; Aug. 10; Gaz. vol. 217; p. 565.
- Moore, Everett E., Faucett, Mo. Rotary valve. No. 1,146,644; July 13; Gaz. vol. 216; p. 605.
- Moore, Everett W., Grand Rapids, Mich. Asparagus-cutter. No. 1,137,777; May 4; Gaz. vol. 214; p. 19.
- Moore, Francis J., Minneapolis, Minn. Vent-pipe. No. 1,137,778; May 4; Gaz. vol. 214; p. 20.
- Moore, Frank E., assignor to Mathews Gravity Carrier Company, Ellwood City, Pa. Inclined elevator. No. 1,162,382; Nov. 30; Gaz. vol. 220; p. 1574.
- Moore, Frank V., assignor, by mesne assignments, to Woman's World Magazine Company, Inc., Chicago, Ill. Elevator feed mechanism for mailing-machines. No. 1,140,839; May 25; Gaz. vol. 214; p. 1202.

Alphabetical list of patentees—Continued.

- Moore, Frank V., assignor to Woman's World Magazine Company Incorporated, Chicago, Ill. Feed mechanism for mailing or other machines. No. 1,155,503; Oct. 5; Gaz. vol. 219; p. 63.
- Moore, Frank V., assignor, by mesne assignments, to Woman's World Magazine Company, Inc., Chicago, Ill. Folding and pasting mechanism for mailing-machines. No. 1,161,785; Nov. 23; Gaz. vol. 220; p. 1320.
- Moore, Frederick H., Melrose, Mass. Toilet-paper fixture. No. 1,136,700; Apr. 20; Gaz. vol. 213; p. 1010.
- Moore, Frederick S. (See Patterson and Moore.)
- Moore, George B., and A. J. Pratt, Springfield, Mass. Ball-cock. No. 1,140,054; May 18; Gaz. vol. 214; p. 895.
- Moore, George C. (See Mettler and Moore.)
- Moore, George D. (See Moore, Ambrose L. and G. D.)
- Moore, George E., Arnold, assignor to Pittsburg Plate Glass Company, Pittsburgh, Pa. Bait for drawing glass cylinders. No. 1,138,885; May 11; Gaz. vol. 214; p. 448.
- Moore, George J. (See Moore, William F. and G. J.)
- Moore, George R., Philadelphia, Pa. Adding device. No. 1,159,408; Nov. 9; Gaz. vol. 220; p. 380.
- Moore, George W. (See Coffman and Moore.)
- Moore, George W., assignor to Imperial Manufacturing Company, Tulsa, Okla. Clutch. No. 1,143,298; June 15; Gaz. vol. 215; p. 852.
- Moore, George W., Tulsa, assignor to Imperial Manufacturing Company, Sand Springs, Okla. Gearing for clothes-wringers. No. 1,143,299; June 15; Gaz. vol. 215; p. 853.
- Moore, Harrison I., Windsor, Nova Scotia, Canada. Sack-holding attachment. No. 1,132,600; Mar. 23; Gaz. vol. 212; p. 1039.
- Moore, Henry J., Niagara Falls, Ontario, Canada. Window-conservatory. No. 1,152,899; Sept. 7; Gaz. vol. 218; p. 191.
- Moore, Herbert C., Somerville, Mass., assignor of one-half to Boston Floor Company, Limited. Portiere or curtain hanger. No. 1,152,383; Aug. 31; Gaz. vol. 217; p. 1634.
- Moore, Herbert H., Chicago, Ill., assignor to Swift and Company. Branding-tool. No. 1,164,742; Dec. 21; Gaz. vol. 221; p. 787.
- Moore, Hugh K., Berlin, N. H. Making sodium sulfid. No. 1,130,317; Mar. 2; Gaz. vol. 212; p. 165.
- Moore, Hugh K., Berlin, N. H. Recovering the soda content of waste liquor. No. 1,137,779; May 4; Gaz. vol. 214; p. 20.
- Moore, Hugh K., Berlin, N. H. Method and means for treatment of waste liquors. No. 1,137,780; May 4; Gaz. vol. 214; p. 20.
- Moore, Hugh K., Berlin, N. H. Making calcium hypochlorite. No. 1,155,605; Oct. 5; Gaz. vol. 219; p. 98.
- Moore, J. Walter, Fort Edward, N. Y. Magnetic flat-iron. No. 1,135,389; Apr. 13; Gaz. vol. 213; p. 505.
- Moore, J. Walter, Fort Edward, N. Y. Shoe-salesman's stool. No. 1,149,391; Aug. 10; Gaz. vol. 217; p. 425.
- Moore, Jacob L., and F. L. Musser; said Musser assignor to Pittsburgh-Hickson Company, Butler, Pa., and said Moore assignor to Moore Manufacturing Company. Muncie, Ind. Folding couch. No. 1,156,704; Oct. 12; Gaz. vol. 219; p. 506.
- Moore, Jacob W., Oxford, Ark. Mail-bag catcher. No. 1,141,817; June 1; Gaz. vol. 215; p. 255.
- Moore, James B., Bayside, N. Y. Garment. No. 1,161,717; Nov. 23; Gaz. vol. 220; p. 1296.
- Moore, James W., St. Joseph, Mo. Swing. No. 1,148,395; July 27; Gaz. vol. 216; p. 1268.
- Moore, Jesse C., Mountain View, Okla. Clutch device. No. 1,154,196; Sept. 21; Gaz. vol. 218; p. 715.
- Moore, Jesse C. and W. A., and F. Wade, assignors to Columbia School Supply Co., Indianapolis, Ind. Cabinet-drawer construction. No. 1,143,297; June 15; Gaz. vol. 215; p. 852.
- Moore, John, Winnipeg, Manitoba, Canada. Calf-feeder. No. 1,127,797; Feb. 9; Gaz. vol. 211; p. 438.
- Moore, John B., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Apparatus for distilling petroleum-oils. No. 1,130,318; Mar. 2; Gaz. vol. 212; p. 165.
- Moore, John C., Lower Edmonton, London, England. Door-closer or door-check. No. 1,130,923; Mar. 9; Gaz. vol. 212; p. 411.
- Moore, John C., and E. L. Winston, Rushville, Nebr. Coupler for pianos and player-pianos. No. 1,157,573; Oct. 19; Gaz. vol. 219; p. 839.
- Moore, John E., Mount Vernon, Ill. Plumb-rule and level. No. 1,146,087; July 13; Gaz. vol. 216; p. 410.
- Moore, John H., Oxford, England. Water-closet of the squat or non-contact type. No. 1,132,374; Mar. 16; Gaz. vol. 212; p. 959.
- Moore, John L., Alexandria, Minn. Folding grate. No. 1,138,498; May 4; Gaz. vol. 214; p. 272.
- Moore, John L., New York, assignor to F. Strauss, Yonkers, N. Y. Toy vehicle. No. 1,157,171; Oct. 19; Gaz. vol. 219; p. 700.
- Moore, John R., Winona, Tex. Clock attachment. No. 1,142,604; June 8; Gaz. vol. 215; p. 570.
- Moore, John W., Sioux City, Iowa. Engine-starter for automobiles and the like. No. 1,142,191; June 8; Gaz. vol. 215; p. 425.
- Moore, Joseph A., trustee. (See King, John J., assignor.)
- Moore, Joseph H., Mulberry, Fla. Flexible elbow. No. 1,136,548; Apr. 20; Gaz. vol. 213; p. 956.
- Moore, Joseph H., Jr., assignor to Pioneer Iron Works, New York, N. Y. Road-building machine. No. 1,128,174; Feb. 9; Gaz. vol. 211; p. 570.
- Moore, Joseph M., Unadilla, N. Y. Feed mixer and carrier. No. 1,141,000; May 25; Gaz. vol. 214; p. 1261.
- Moore, Lee C., Pittsburgh, Pa. Steel tower or derrick. No. 1,151,810; Aug. 31; Gaz. vol. 217; p. 1436.
- Moore-Libby Specialties Company. (See Moore, Robert A., assignor.)
- Moore, Lyman L., Seattle, Wash. Heating-drum. No. 1,141,200; June 1; Gaz. vol. 215; p. 39.
- Moore Manufacturing Company *et al.* (See Moore and Musser, assignors.)
- Moore, Marian L., Nickelsville, Va. Needle-threading device. No. 1,145,258; July 6; Gaz. vol. 216; p. 99.
- Moore, Mary S., *et al.*, trustees. (See Moore, Van Zandt M., assignor.)
- Moore, Milton J., Joliet, Ill. Plate-valve. No. 1,150,141; Aug. 17; Gaz. vol. 217; p. 757.
- Moore, Nealy. (See Clayton and Moore.)
- Moore, Niles. (See Moore, Benton, assignor.)
- Moore, Oliver A. (See Headly, James W., assignor.)
- Moore, Oliver P., Spokane, Wash. Oil-burning smelting-furnace. No. 1,153,561; Sept. 14; Gaz. vol. 218; p. 464.
- Moore Patent Car Company. (See Elmer, James P., assignor.)
- Moore, Philip P., Gloucester, Mass. Machine for cutting cloth for buttons. No. 1,151,032; Aug. 24; Gaz. vol. 217; p. 1124.
- Moore, Philip W., Evanston, assignor to The P. & M. Co., Chicago, Ill. Rail-anchor. No. 1,128,348; Feb. 16; Gaz. vol. 211; p. 679.
- Moore, Philip W., Evanston, assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,128,349; Feb. 16; Gaz. vol. 211; p. 680.
- Moore, Philip W., Evanston, assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,128,350; Feb. 16; Gaz. vol. 211; p. 680.
- Moore, Philip W., Evanston, assignor to The P. & M. Co., Chicago, Ill. Anticreepers. No. 1,140,345; May 18; Gaz. vol. 214; p. 996.
- Moore, Philip W., Evanston, assignor to The P. & M. Company, Chicago, Ill. Rail-stay. No. 1,158,141; Oct. 26; Gaz. vol. 219; p. 1103.
- Moore, Philip W., Evanston, assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,159,065; Nov. 2; Gaz. vol. 220; p. 226.
- Moore, Quintin, Kiddrie, Glasgow, Scotland. Ash-discharge device for gas-producer grates. No. 1,133,995; Mar. 30; Gaz. vol. 212; p. 1623.
- Moore, R. S. (See Erickson, Daniel E., assignor.)
- Moore, Ralph S., *et al.* (See Marker, Henry H., assignor.)
- Moore, Ralph S., El Paso, Tex. Furnace. No. 1,139,558; May 18; Gaz. vol. 214; p. 719.
- Moore, Ralph W. E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Metal-spraying. No. 1,164,008; Dec. 14; Gaz. vol. 221; p. 491.
- Moore, Richard B., Denver, Colo. Extracting vanadium, uranium, and radium from ores. No. 1,165,692; Dec. 28; Gaz. vol. 221; p. 1159.
- Moore, Richard B., Denver, Colo. Extracting vanadium, uranium, and radium from ores. No. 1,165,693; Dec. 28; Gaz. vol. 221; p. 1160.
- Moore, Robert, Tuxedo Park, N. Y. Racket. No. 1,143,300; June 15; Gaz. vol. 216; p. 853.
- Moore, Robert A., New York, N. Y., assignor to Moore-Libby Specialties Company, Incorporated. Liquid-agitating device. No. 1,151,372; Aug. 24; Gaz. vol. 217; p. 1237.
- Moore, Robert H., assignor to American Creosoting Company, Louisville, Ky. Running-gear for wheeled vehicles. No. 1,126,251; Jan. 26; Gaz. vol. 210; p. 1193.
- Moore, Robert S. (See Erickson, Daniel E., assignor.)
- Moore, Robert S., assignor to Gyro Motor Company, Washington, D. C. Piston for expansion-engines. No. 1,159,066; Nov. 2; Gaz. vol. 220; p. 226.
- Moore, Robert S., and J. L. Simmons, assignors to Gyro Motor Company, Washington, D. C. Gas-engine. No. 1,131,257; Mar. 9; Gaz. vol. 212; p. 525.
- Moore, Robert S., and J. L. Simmons, assignors to Gyro Motor Company, Washington, D. C. Crank connection for engines. No. 1,134,545; Apr. 6; Gaz. vol. 213; p. 168.
- Moore, Roswell A., Waterbury, Conn. Web-tip. No. 1,130,100; Mar. 2; Gaz. vol. 212; p. 90.
- Moore, Royal C., and R. E. Braden, Wayzata, Minn. Automobile-lock. No. 1,145,206; July 6; Gaz. vol. 216; p. 80.
- Moore, Thomas J., and W. V., Sandusky, Mich. Bridge. No. 1,153,099; Sept. 7; Gaz. vol. 218; p. 261.
- Moore, Thomas S., Shoshoni, assignor of one-half to M. Williams, Wheatland, Wyo. Beet-harvester. No. 1,142,048; June 8; Gaz. vol. 215; p. 374.
- Moore, Thomas S., Shoshoni, assignor of one-half to M. Williams, Wheatland, Wyo. Uprooting mechanism for beet-harvesters. No. 1,142,049; June 8; Gaz. vol. 215; p. 375.

Alphabetical list of patentees—Continued.

- Moore, Thomas S., Shoshoni, assignor of one-half to M. Williams, Wheatland, Wyo. Gathering and discharging mechanism for beet-harvesters. No. 1,142,050; June 8; Gaz. vol. 215; p. 375.
- Moore, Van Zandt M., Cleveland, assignor to A. M. and M. S. Moore, Cleveland Heights, Ohio, trustees. Vehicle-wheel. No. 1,163,360; Dec. 7; Gaz. vol. 221; p. 220.
- Moore, Wiley R. (See Park and Moore.)
- Moore, William A. (See Moore and Wade.)
- Moore, William C., Detroit, Mich. Connecting-rod bearing. No. 1,154,650; Sept. 28; Gaz. vol. 218; p. 903.
- Moore, William D., Creston, Iowa. Mold for poured concrete bricks or blocks. No. 1,140,840; May 25; Gaz. vol. 214; p. 1203.
- Moore, William E. (See Elliott and Moore.)
- Moore, William E., Pittsburgh, Pa. Cotton ginning and cleaning. No. 1,136,969; Apr. 27; Gaz. vol. 213; p. 1141.
- Moore, William F. and G. J., Toronto, Ontario, Canada. Grain-grinding machine. No. 1,135,313; Apr. 13; Gaz. vol. 213; p. 479.
- Moore, William G., assignor to The Aetna Foundry and Machine Company, Warren, Ohio. Apparatus for cleaning tin plates. No. 1,138,134; May 4; Gaz. vol. 214; p. 146.
- Moore, William J., Cedar Springs, and F. M. Thayer, Grand Rapids, Mich. Steering-gear for automobiles. No. 1,144,307; June 22; Gaz. vol. 215; p. 1228.
- Moore, William J., and R. Manson, Winnipeg, Manitoba, Canada. Automobile-top. No. 1,151,033; Aug. 24; Gaz. vol. 217; p. 1214.
- Moore, William J. P., New York, N. Y. Carbureter. No. 1,148,247; July 27; Gaz. vol. 216; p. 1214.
- Moore, William V. (See Moore, Thomas J. and W. V.)
- Moorefield, William E., and A. J. Brady, said Moorefield assignor of one-half to G. L. Taylor, Hinton, W. Va. Electric water-level indicator. No. 1,124,055; Jan. 5; Gaz. vol. 210; p. 291.
- Moorhead, Albert E., assignor, by mesne assignments, to American Rotary Valve Company, Chicago, Ill. Pneumatic cleansing apparatus. No. 1,126,828; Feb. 2; Gaz. vol. 211; p. 59.
- Moorhouse, Alfred, assignor to Hudson Motor Car Company, Detroit, Mich. Vehicle-top. No. 1,133,654; Mar. 30; Gaz. vol. 212; p. 1508.
- Moorhouse, Alfred, assignor to Hudson Motor Car Company, Detroit, Mich. Door and door-post construction. No. 1,148,248; July 27; Gaz. vol. 216; p. 1214.
- Moorhouse, Alfred, assignor to Hudson Motor Car Company, Detroit, Mich. Wind-shield and top construction. No. 1,151,961; Aug. 31; Gaz. vol. 217; p. 1487.
- Moorhouse, John M., Winnipeg, Manitoba, Canada. Running-gear for aeroplanes. No. 1,127,798; Feb. 9; Gaz. vol. 211; p. 438.
- Mooring, Kenneth, Huntington, W. Va. Pipe-joint. No. 1,151,703; Aug. 31; Gaz. vol. 217; p. 1397.
- Moorman, James M., Marshall, Tex. Draft-gear for railway-cars. No. 1,150,695; Aug. 17; Gaz. vol. 217; p. 951.
- Moose Mountain. (See Herrmann, Charles E., assignor.)
- Moran, Edgar, Jacksonville, Fla. Safety-razor. No. 1,165,528; Dec. 28; Gaz. vol. 221; p. 1100.
- Moran, James J., assignor of one-half to W. J. Schultz, Maricopa, Cal. Vehicle-spring. No. 1,154,999; Sept. 28; Gaz. vol. 218; p. 1019.
- Moran, John J., Cleveland, Ohio. Concrete structure. No. 1,159,526; Nov. 9; Gaz. vol. 220; p. 421.
- Moran, Joseph B., assignor of one-half to T. J. Mahoney, San Francisco, Cal. Water-heater. No. 1,165,696; Dec. 28; Gaz. vol. 221; p. 1160.
- Moran, Joseph J., Chelsea, Mass. Hook. No. 1,163,944; Dec. 14; Gaz. vol. 221; p. 469.
- Moran, Michael V., *et al.* (See Donohue, James S., assignor.)
- Morand, Charles H., Los Angeles, Cal. Fire-escape. No. 1,152,961; Sept. 7; Gaz. vol. 218; p. 214.
- Morand, Leo J. (See Sattler and Morand.)
- Morawiecki, Michal, Pittsburgh, Pa. Non-refillable bottle. No. 1,135,203; Apr. 13; Gaz. vol. 213; p. 442.
- Mørch, Kristoffer, Greaaer, Norway. Bleaching paper-pulp and the like. No. 1,160,942; Nov. 16; Gaz. vol. 220; p. 977.
- Morck, Alfred A., and H. Goldblatt, New York, N. Y. Therapeutical bandage. No. 1,138,579; May 4; Gaz. vol. 214; p. 298.
- Morden, Charles W., Portland, Oreg. Differential-thread coupling for conduit members. No. 1,128,997; Feb. 16; Gaz. vol. 211; p. 906.
- Morden Frog & Crossing Works. (See Gibbs, Benedict T., Jr., assignor.)
- Morden, Lucena M., Waterbury, Conn. Loose-leaf binder. No. 1,129,891; Mar. 2; Gaz. vol. 212; p. 20.
- Morden, Lucena M., Waterbury, Conn. Loose-leaf binder. No. 1,163,766; Dec. 14; Gaz. vol. 221; p. 407.
- Mordey, William M., Westminster, London, J. W. Astley and D. B. Sanderson, Prescott, England. Conductor-support. No. 1,153,813; Sept. 14; Gaz. vol. 218; p. 550.
- Moré, Arnold. (See Coutelle and Moré.)
- More, George, Richmond Hill, N. Y. Portage device for ash-cans and the like. No. 1,155,081; Sept. 28; Gaz. vol. 218; p. 1050.
- More, Glenn, assignor to The Blackstone Manufacturing Company, Jamestown, N. Y. Operating-gearing for washing-machines. No. 1,139,893; May 18; Gaz. vol. 214; p. 837.
- More-Jones Brass and Metal Company. (See Gearhart, Roy E., assignor.)
- More, Lucius E. (See Bolin and More.)
- More, Orlo S., and L. G. Long, assignors to Fairbanks-Morse Electrical Manufacturing Company, Indianapolis, Ind. Single-phase motor. No. 1,145,501; July 6; Gaz. vol. 216; p. 184.
- Moreau, Edmond D., Jr., Moosup, Conn. Mirror-support. No. 1,145,259; July 6; Gaz. vol. 216; p. 99.
- Moreau, William W. (See Carrell and Moreau.)
- Morehouse, Eugene, assignor to B. A. Ballou & Company, Inc., Providence, R. I. Neckscarf-fastener. No. 1,146,645; July 13; Gaz. vol. 216; p. 606.
- Morehouse, Melvin W., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,892; Mar. 2; Gaz. vol. 212; p. 21.
- Morehouse, Melvin W., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Testing mechanism. No. 1,157,796; Oct. 26; Gaz. vol. 219; p. 981.
- Moreland, John E., *et al.* (See Donohue, James S., assignor.)
- Moreland Motor Truck Company. (See Moreland, Watt L., assignor.)
- Moreland, Watt L., assignor of one-half to Moreland Motor Truck Company, Los Angeles, Cal. Vehicle loading and unloading mechanism. No. 1,132,960; Mar. 23; Gaz. vol. 212; p. 1222.
- Morell, Alfred F. (See Wyman and Morell.)
- Morell, Alfred F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,150,448; Aug. 17; Gaz. vol. 217; p. 863.
- Morency, Alfred F., assignor to Morency-Van Buren Mfg. Co., Sturgis, Mich. Ball-cock. No. 1,125,369; Jan. 19; Gaz. vol. 210; p. 845.
- Morency-Van Buren Mfg. Co. (See Morency, Alfred F., assignor.)
- Moreno, Raul R., South Bethlehem, Pa. Hydraulic variable-speed gear. No. 1,159,980; Nov. 9; Gaz. vol. 220; p. 586.
- Moreton, Alfred G., Erie, Pa., assignor to General Electric Company. Controlling mechanism for internal-combustion engines. No. 1,158,000; Oct. 26; Gaz. vol. 219; p. 1052.
- Morewood, Thomas M., Elizabeth, N. J. Rigid conveyer for liquids. No. 1,147,421; July 20; Gaz. vol. 216; p. 897.
- Morey, Alexander W., Troy, N. Y. Brush-making machine. No. 1,162,639; Nov. 30; Gaz. vol. 220; p. 1658.
- Morey, Charles B., assignor to Larkin Co., Buffalo, N. Y. Treating catalyzing materials. No. 1,127,911; Feb. 9; Gaz. vol. 211; p. 479.
- Morey, Harry A. (See Cahill, Mortimer, assignor.)
- Morey, Harry J., Syracuse, assignor to Pass & Seymour, Incorporated, Solvay, N. Y. Electric lamp-retaining device. No. 1,160,435; Nov. 16; Gaz. vol. 220; p. 796.
- Morey, William E., assignor to National Dump Car Company, Chicago, Ill. Door-actuating mechanism for general-service cars. No. 1,155,430; Oct. 5; Gaz. vol. 219; p. 37.
- Morey, William E., assignor to National Dump Car Company, Chicago, Ill. Door-actuating mechanism for general-service cars. No. 1,157,893; Oct. 26; Gaz. vol. 219; p. 1016.
- Morf, Erika, Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Producing bodies or small particles of substances. No. 1,128,175; Feb. 9; Gaz. vol. 211; p. 571.
- Morf, Erika, Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Coating with aluminium. No. 1,154,651; Sept. 28; Gaz. vol. 218; p. 903.
- Morford, James R., assignor to The Viscose Development Company, Limited, London, England. Covering for bottles, jars, or other vessels. No. 1,149,532; Aug. 10; Gaz. vol. 217; p. 475.
- Morford, William L., Maitland, Mo. Furrow opener and closer. No. 1,128,176; Feb. 9; Gaz. vol. 211; p. 571.
- Morgan, Abraham, Independence, Mo. Spring-wheel. No. 1,156,306; Oct. 12; Gaz. vol. 219; p. 364.
- Morgan, Austin M., Troy, Ohio. Extensible ladder. No. 1,151,809; Aug. 31; Gaz. vol. 217; p. 1436.
- Morgan, Bernard, Newport, R. I. Igniting device for gas-burners. No. 1,123,349; Jan. 5; Gaz. vol. 210; p. 53.
- Morgan, Bernard, Newport, R. I. Parcel-post calculating device. No. 1,145,696; July 6; Gaz. vol. 216; p. 252.
- Morgan, Charles, assignor to Arcade Manufacturing Company, Freeport, Ill. Game apparatus. No. 1,163,102; Dec. 7; Gaz. vol. 221; p. 128.
- Morgan, Charles C., New York, N. Y., assignor to The C. C. Morgan Company. Composite tucked fabric. No. 1,128,618; Feb. 16; Gaz. vol. 211; p. 773.

Alphabetical list of patentees—Continued.

- Morgan, Charles C., New York, N. Y., and G. Wright, Pittsfield, Mass., assignor, by mesne assignments, to The C. C. Morgan Company. Tucking-machine. No. 1,128,619; Feb. 16; Gaz. vol. 211; p. 773.
- Morgan, Clyde E., Holdenville, Okla. Mine-car brake. No. 1,154,041; Sept. 21; Gaz. vol. 218; p. 664.
- Morgan Construction Company. (See Carroll, Elbert H., assignor.)
- Morgan Construction Company. (See George, Jerome R., assignor.)
- Morgan Construction Company. (See Jefferies, Ebenezer A. W., assignor.)
- Morgan Construction Company. (See Jefferies and Isley, assignors.)
- Morgan, David G., San Francisco, Cal. Multiple-nut lock. No. 1,142,192; June 8; Gaz. vol. 215; p. 426.
- Morgan, Edmund C., Morgan Park, Ill. Cutting mechanism. No. 1,140,841; May 25; Gaz. vol. 214; p. 1203.
- Morgan, Edmund C., Morgan Park, Ill. Cutting mechanism. No. 1,141,254; June 1; Gaz. vol. 215; p. 57.
- Morgan, Edmund C., Chicago, Ill. Portable turnout. No. 1,163,767; Dec. 14; Gaz. vol. 221; p. 407.
- Morgan, Edmund C., Chicago, Ill., assignor to American Morgan Company, Pierre, S. D. Pneumatic system of mining coal and removing foul gases from mine-chambers. No. 1,131,852; Mar. 16; Gaz. vol. 212; p. 769.
- Morgan, Eldon, Holstein, Iowa. Harrow-truck. No. 1,128,711; Feb. 16; Gaz. vol. 211; p. 804.
- Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
- Morgan, Francis L., Wayland, Iowa. Trap-nest. No. 1,164,380; Dec. 14; Gaz. vol. 221; p. 621.
- Morgan, Frank, Melrose, Mass. Starting device for internal-combustion engines. No. 1,142,193; June 8; Gaz. vol. 215; p. 426.
- Morgan, Frank, Melrose, Mass. Auxiliary valve for internal-combustion engines. No. 1,142,194; June 8; Gaz. vol. 215; p. 426.
- Morgan, George H., Jr., and J. Salvitti, Ellsworth, Pa. Rail-fastening device. No. 1,148,852; Aug. 3; Gaz. vol. 217; p. 132.
- Morgan, George S., Toledo, Ohio. Producing potassium sulfate. No. 1,161,239; Nov. 23; Gaz. vol. 220; p. 1130.
- Morgan, George W. (See De Lukacsevics, Charles, assignor.)
- Morgan, George W., and L. Evans, Commerce, Okla. Extension-frame for mining-drills. No. 1,133,492; Mar. 30; Gaz. vol. 212; p. 1447.
- Morgan, Guy, Middletown, Ohio. Form for concrete tops for cisterns, &c. No. 1,127,070; Feb. 2; Gaz. vol. 211; p. 143.
- Morgan, Henry S., assignor to Essex Rubber Company, Inc., Trenton, N. J. Cap for automobile-radiators and the like. No. 1,134,890; Apr. 6; Gaz. vol. 213; p. 289.
- Morgan, Henry W., Rochester, N. Y. Nailing-machine. No. 1,132,669; Mar. 23; Gaz. vol. 212; p. 1115.
- Morgan, Henry W., Rochester, N. Y. Nailing-machine. No. 1,140,605; May 25; Gaz. vol. 214; p. 1124.
- Morgan, James G., Jackson, Ohio. Apparatus for feeding lime to blast-furnaces. No. 1,137,415; Apr. 27; Gaz. vol. 213; p. 1306.
- Morgan, James W. (See Krebs and Morgan.)
- Morgan, John, New York, N. Y. Hanger for books. No. 1,133,655; Mar. 30; Gaz. vol. 212; p. 1508.
- Morgan, John D., New York, N. Y. Vision-guard. No. 1,151,603; Aug. 31; Gaz. vol. 217; p. 1365.
- Morgan, John D., Summit, N. J., assignor, by mesne assignments, to J. G. Coffin, trustee. Producing planographic printing-forms. No. 1,124,638; Jan. 12; Gaz. vol. 210; p. 548.
- Morgan, John T., Burlison, Tenn. Pot-holder. No. 1,139,212; May 11; Gaz. vol. 214; p. 563.
- Morgan, Joseph C., Chicago, Ill. Heater. No. 1,151,605; Aug. 31; Gaz. vol. 217; p. 1365.
- Morgan, Joseph P. (See Harris and Morgan.)
- Morgan, Lewis N., *et al.* (See Dawson, Robert C., assignor.)
- Morgan, Richard T. (See Tomlin, James, assignor.)
- Morgan, Richard W., assignor of one-half to A. W. Vogel, Sunbury, Pa. Broom-bridle. No. 1,139,701; May 18; Gaz. vol. 214; p. 771.
- Morgan, Roy M., Rankin, Ill. Supporting-framing for automobiles. No. 1,146,343; July 13; Gaz. vol. 216; p. 498.
- Morgan, Thomas E. (See Beebout and Morgan.)
- Morgan, Thomas G., Shamokin, Pa. Lathering implement. No. 1,146,646; July 13; Gaz. vol. 216; p. 606.
- Morgan, Thomas W. (See Hackett and Morgan.)
- Morgan, Thomas W., assignor to W. W. Marsh, Waterloo, Iowa. Belt connection. No. 1,147,037; July 20; Gaz. vol. 216; p. 762.
- Morgan, Thomas W., assignor to W. W. Marsh, Waterloo, Iowa. Valve-timer for internal-combustion engines. No. 1,150,291; Aug. 17; Gaz. vol. 217; p. 811.
- Morgan, Thomas W., assignor to W. W. Marsh, Waterloo, Iowa. Magneto-generator. No. 1,153,944; Sept. 21; Gaz. vol. 218; p. 631.
- Morgan, Wallace E., Geneseo, Ill. Throttle control for automobiles. No. 1,151,031; Aug. 24; Gaz. vol. 217; p. 1124.
- Morgan, William C. (See Wilson, Eugene W., assignor.)
- Morgan, William H., Alliance, Ohio. Railway-track construction. No. 1,123,781; Jan. 5; Gaz. vol. 210; p. 200.
- Morgan, William H., Alliance, Ohio. Railway-track construction. No. 1,123,782; Jan. 5; Gaz. vol. 210; p. 200.
- Morgan, William H., Alliance, Ohio. Railway-track construction. (Reissue.) No. 13,917; May 11; Gaz. vol. 214; p. 654.
- Morgan, William H., Alliance, Ohio. Railway construction. No. 1,149,393; Aug. 10; Gaz. vol. 217; p. 426.
- Morgan, William G. (See Wilson, Edward, assignor.)
- Morgan, William J., St. Louis, Mo. Buttonhole-stitching clamp. No. 1,129,415; Feb. 23; Gaz. vol. 211; p. 1088.
- Morgan & Wright. (See Hoyt, Homer J., assignor.)
- Morgan & Wright. (See Kearns, William, assignor.)
- Morgan & Wright. (See Meyer, Erwin E. A. G., assignor.)
- Morgan & Wright. (See Midgley, Thomas, assignor.)
- Morgan & Wright. (See Wilcox, Daniel A., assignor.)
- Morganfield, August, Junction City, Kans. Collar-reducer. No. 1,156,307; Oct. 12; Gaz. vol. 219; p. 364.
- Morgenroth, Edwin L., Kewaskum, Wis. Cow stanchion and stall. No. 1,126,829; Feb. 2; Gaz. vol. 211; p. 59.
- Morheuser, Joseph, St. Louis, Mo. Wrench. No. 1,132,483; Mar. 16; Gaz. vol. 212; p. 999.
- Mori, Susan T., Meadow Valley, Cal. Doll-eye adjuster. No. 1,157,119; Oct. 19; Gaz. vol. 219; p. 682.
- Moriarty, John F., and L. L. Kneeland, Lynn, Mass. Dirigible headlight. No. 1,140,389; May 25; Gaz. vol. 214; p. 1046.
- Moricet, Elie, Paris, France. Buckle with releasing-gear. No. 1,158,827; Nov. 2; Gaz. vol. 220; p. 148.
- Morici, Salvatore. (See Caruso and Morici.)
- Morin, Edward J., Wynot, Nebr. Non-refillable bottle. No. 1,154,531; Sept. 21; Gaz. vol. 218; p. 831.
- Morin, Jacques A., Quebec, Quebec, Canada. Gas turbine-engine. No. 1,131,072; Mar. 9; Gaz. vol. 212; p. 461.
- Morine, Edwin C., assignor, by mesne assignments, to Kryptok Company, New York, N. Y. Making bifocal lenses. No. 1,157,410; Oct. 19; Gaz. vol. 219; p. 786.
- Morine, Edwin C., Toledo, Ohio, assignor to Kryptok Company, New York, N. Y. Lens manufacturing. No. 1,157,411; Oct. 19; Gaz. vol. 219; p. 786.
- Morison, Donald B., Hartlepool, England. Apparatus relating to the withdrawal of air and water from steam-condensers. No. 1,130,319; Mar. 2; Gaz. vol. 212; p. 165.
- Morison, Donald B., Hartlepool, England. Apparatus for heating boiler feed-water. No. 1,148,182; July 27; Gaz. vol. 216; p. 1192.
- Morison, Donald B., Hartlepool, England. Steam-condenser. No. 1,153,814; Sept. 14; Gaz. vol. 218; p. 551.
- Morison, Donald B., Hartlepool, England. Apparatus for withdrawing aerated vapor and condensate from steam-condensers. No. 1,155,951; Oct. 5; Gaz. vol. 219; p. 217.
- Morison, Donald B., Hartlepool, England. Apparatus for withdrawing aerated vapor and condensate from steam-condensers. No. 1,160,943; Nov. 16; Gaz. vol. 220; p. 978.
- Morison, Donald B., Hartlepool, England. Apparatus for heating boiler feed-water. No. 1,163,436; Dec. 7; Gaz. vol. 221; p. 245.
- Morison, Donald B., Hartlepool, England. Apparatus for cleansing steam and heating water. No. 1,163,437; Dec. 7; Gaz. vol. 221; p. 346.
- Moritz, Charles S., Tavanne, Switzerland. Gage. No. 1,149,591; Aug. 10; Gaz. vol. 217; p. 496.
- Moritz, Herman, J. J. Koelsch, and F. Koehn, Durham, Kans. Single-trigger mechanism. No. 1,145,502; July 6; Gaz. vol. 216; p. 184.
- Moritz, Robert E., Seattle, Wash. Cycloharmonograph. No. 1,126,252; Jan. 26; Gaz. vol. 210; p. 1194.
- Morkrum Company. (See Krum, Charles L., assignor.)
- Morley, Edmund W., Southsea, England. Frame of bicycles. No. 1,148,707; Aug. 3; Gaz. vol. 217; p. 80.
- Morley, Joseph, assignor of one-fourth to J. F. McQueen and one-fourth to A. Jones, Butte, Mont. Coffee-clearing compound and making same. No. 1,151,373; Aug. 24; Gaz. vol. 217; p. 1237.
- Morley, Louis. (See De Feranzo, Garibaldi, assignor.)
- Morner, Louis. (See Smith, Charles D., assignor.)
- Morning, George A., *et al.* (See Lamar, Alexis L., assignor.)
- Moross, Joseph A., *et al.* (See Loring, Benjamin C., assignor.)
- Moross, Joseph A., *et al.*, trustees. (See Loring, Benjamin C., assignor.)
- Moross, Maud S., *et al.* (See Loring, Benjamin C., assignor.)
- Morrarty, Andrew J., assignor to Martin-Copeland Company, Providence, R. I. Eyeglass-mounting. No. 1,162,184; Nov. 30; Gaz. vol. 220; p. 1506.
- Morreau Company, The. (See Bertram, Charles, assignor.)
- Morrell, Glenn A., Seattle, Wash. Twine-cutter. No. 1,125,869; Jan. 19; Gaz. vol. 210; p. 1020.
- Morrell, Glenn A., Seattle, Wash. Twine-cutter. No. 1,165,697; Dec. 28; Gaz. vol. 221; p. 1161.
- Morrell, Isaac V., Elgin, Ill., assignor of one-fourth to J. O. Morrell, Montreal, Quebec, Canada. Camera. No. 1,142,904; June 15; Gaz. vol. 215; p. 713.
- Morrell, J. Otty. (See Morrell, Isaac V., assignor.)

Alphabetical list of patentees—Continued.

- Morrell, Lon, assignor to J. P. Campbell, Jacksonville, Fla. Sprinkler for irrigating systems. No. 1,156,612; Oct. 12; Gaz. vol. 219; p. 473.
- Morrill, William C., New York, N. Y. Liquid-discharging device. (Reissue.) No. 13,898; Apr. 6; Gaz. vol. 213; p. 324.
- Morris, Albert W., Philadelphia, Pa. Dish-washing machine. No. 1,145,607; July 6; Gaz. vol. 216; p. 220.
- Morris, Anthony S., Haverford, Pa. Press. No. 1,143,849; June 22; Gaz. vol. 215; p. 1066.
- Morris, Anthony S., Haverford, Pa. Press. No. 1,153,638; Sept. 14; Gaz. vol. 218; p. 490.
- Morris, Charles A., Montclair, N. J., assignor to The Hayward Company. Excavating-shovel. No. 1,139,559; May 18; Gaz. vol. 214; p. 719.
- Morris, Charles D., Norfolk, Va. Operating device for train-pipe cocks. No. 1,134,546; Apr. 6; Gaz. vol. 213; p. 169.
- Morris, Charles W., Newark, N. J. Shoe-shining stand. No. 1,127,071; Feb. 2; Gaz. vol. 211; p. 144.
- Morris, Claude W. and H. R., Chicago, Ill. Adjustable holder for wrist-watches. No. 1,143,548; June 15; Gaz. vol. 215; p. 938.
- Morris, Clinton D., Binghamton, N. Y. Garment and hat hanger. No. 1,142,451; June 8; Gaz. vol. 215; p. 518.
- Morris, David Z. (See Morris, Herbert W. and E. M., assignors.)
- Morris, Edmund, assignor to Wilmarth Show Case Company, Grand Rapids, Mich. Spacing-pilaster for sectional furniture. No. 1,127,488; Feb. 9; Gaz. vol. 211; p. 330.
- Morris, Edmund, assignor to Wilmarth Show Case Company, Grand Rapids, Mich. Dust-joint for drawers. No. 1,137,073; Apr. 27; Gaz. vol. 213; p. 1180.
- Morris, Edmund, assignor to Wilmarth Show Case Company, Grand Rapids, Mich. Tilting drawer. No. 1,137,074; Apr. 27; Gaz. vol. 213; p. 1180.
- Morris, Edward, Boston, Mass. Signaling apparatus for street-railway cars. No. 1,132,864; Mar. 23; Gaz. vol. 212; p. 1187.
- Morris, Edward J., Newark, N. J., assignor to Shiman Miller Manufacturing Company. Knife. No. 1,147,683; July 20; Gaz. vol. 216; p. 988.
- Morris, Edward M. (See Morris, Herbert W. and E. M.)
- Morris, Edward P., assignor to New Jersey Patent Company, West Orange, N. J. Governor connection for phonograph-motors. No. 1,148,610; Aug. 3; Gaz. vol. 217; p. 46.
- Morris, Emanuel S., St. Louis, Mo. Resilient vehicle-wheel. No. 1,141,255; June 1; Gaz. vol. 215; p. 58.
- Morris, Emanuel S., St. Louis, Mo. Spring-tire. No. 1,152,037; Aug. 31; Gaz. vol. 217; p. 1514.
- Morris, Emerson T., Constitution, Ohio. Wire-stretcher. No. 1,142,352; June 8; Gaz. vol. 215; p. 481.
- Morris, Fulton R., assignor to Morris Grain Drier Co., Milwaukee, Wis. Grain drier and cooler. No. 1,157,172; Oct. 19; Gaz. vol. 219; p. 700.
- Morris, George E., Minneapolis, Minn. Beading implement. No. 1,162,871; Dec. 7; Gaz. vol. 221; p. 48.
- Morris, George W., *et al.* (See Markham, Andrew J., assignor.)
- Morris Grain Drier Co. (See Morris, Fulton R., assignor.)
- Morris-Hall Mail Closer Co. (See Hall, Louis J., assignor.)
- Morris, Harold R. (See Morris, Claude W. and H. R.)
- Morris, Herbert W. and E. M., Buffalo, N. Y., assignors of one-third to D. Z. Morris, Ridgeville, Ontario, Canada. Glass-cutting machine. No. 1,139,054; May 11; Gaz. vol. 214; p. 508.
- Morris, Homer B., Texas City, Tex. Finger-shield. No. 1,160,522; Nov. 16; Gaz. vol. 220; p. 827.
- Morris, Homer L., *et al.* (See Matthews, William J., assignor.)
- Morris, Jacob, Sydney, New South Wales, Australia. Lady's hat-fastening. No. 1,144,561; June 29; Gaz. vol. 215; p. 1342.
- Morris, James G., assignor of one-half to C. C. Clay, Houston, Tex. Putty-trowel. No. 1,126,253; Jan. 26; Gaz. vol. 210; p. 1194.
- Morris, James W., New York, N. Y., assignor to The Sinar Company. Photographic screen for half-tone work. No. 1,161,824; Nov. 23; Gaz. vol. 220; p. 1332.
- Morris, Jess J., and M. Eitel, Columbus, Ohio. Valve-grinding tool. No. 1,150,874; Aug. 24; Gaz. vol. 217; p. 1071.
- Morris, John B., *et al.* (See Matthews, William J., assignor.)
- Morris, John M., London, England, assignor to The Carbic Corporation, Duluth, Minn. Blowpipe. No. 1,139,435; May 11; Gaz. vol. 214; p. 641.
- Morris, John O., Davenport, Iowa. Ash-screen. No. 1,150,615; Aug. 17; Gaz. vol. 217; p. 923.
- Morris, John O., Davenport, Iowa, assignor, by mesne assignments, to Bullock Tractor Company, Chicago, Ill. Track for vehicles. No. 1,142,195; June 8; Gaz. vol. 215; p. 427.
- Morris, John O., Davenport, Iowa, assignor, by mesne assignments, to Bullock Tractor Company, Chicago, Ill. Vehicle. No. 1,142,196; June 8; Gaz. vol. 215; p. 427.
- Morris, John W., Kila, Mont. Locking device for sawmill-dogs. No. 1,139,055; May 11; Gaz. vol. 214; p. 608.
- Morris, Joseph C., Rock Creek, Ohio. Luting composition. No. 1,140,760; May 25; Gaz. vol. 214; p. 1175.
- Morris, Joseph J., Harrisburg, Ill. Machine for making bits. No. 1,123,350; Jan. 5; Gaz. vol. 210; p. 53.
- Morris, Milo W., Olympia, Wash. Guide for vehicle-springs. No. 1,135,832; Apr. 13; Gaz. vol. 213; p. 663.
- Morris, Milton, Chicago, Ill. Lock. No. 1,159,067; Nov. 2; Gaz. vol. 220; p. 227.
- Morris, Mortimer S., and J. Bendin, New York, N. Y. Sign. No. 1,148,114; July 27; Gaz. vol. 216; p. 1168.
- Morris, Samuel L. H., *et al.* (See Cleaver, Fremont J., assignor.)
- Morris, Thomas A., Lansford, Pa. Electric-lamp receptacle and plug. No. 1,147,532; July 20; Gaz. vol. 216; p. 935.
- Morris, Thomas O. (See Noonan, John J., assignor.)
- Morris, William, Cleveland Heights, Ohio. Resilient wheel. No. 1,159,786; Nov. 9; Gaz. vol. 220; p. 516.
- Morris, William C., Easton, Pa. Adjustable boring-tool holder. No. 1,133,169; Mar. 23; Gaz. vol. 212; p. 1298.
- Morris, William G., Los Angeles, Cal. Automatically-controlled auxiliary air-inlet device for internal-combustion engines. No. 1,160,640; Nov. 16; Gaz. vol. 220; p. 871.
- Morris, William L., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Precipitation-tank. No. 1,129,893; Mar. 2; Gaz. vol. 212; p. 21.
- Morris, William L., Chicago, Ill., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Filter. No. 1,137,075; Apr. 27; Gaz. vol. 213; p. 1180.
- Morris, William L., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Oil-drip-return system. No. 1,141,649; June 1; Gaz. vol. 215; p. 200.
- Morris, William L., Chicago, Ill., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Filter. No. 1,143,985; June 22; Gaz. vol. 215; p. 1113.
- Morris, William L., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Liquid-separator. No. 1,147,881; July 27; Gaz. vol. 216; p. 1083.
- Morris, William L., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Engine oil connection. No. 1,157,894; Oct. 26; Gaz. vol. 219; p. 1017.
- Morris, William L., assignor to S. F. Bowser & Co., Inc., Fort Wayne, Ind. Lubricating system. No. 1,159,599; Nov. 9; Gaz. vol. 220; p. 448.
- Morris, William S., assignor of forty one-hundredths to J. Caesar, St. Louis, Mo. Mold for concrete poles. No. 1,124,164; Jan. 5; Gaz. vol. 210; p. 328.
- Morris, Willis G., Morrill, Nebr. Tire-casing. No. 1,142,905; June 15; Gaz. vol. 215; p. 713.
- Morrison, Andrew, assignor to Dilworth, Porter & Company, Limited, Pittsburgh, Pa. Tie-plate. No. 1,143,301; June 15; Gaz. vol. 215; p. 853.
- Morrison, Arthur M., Detroit, Mich. Pencil. No. 1,131,786; Mar. 16; Gaz. vol. 212; p. 745.
- Morrison, Bartholomew J., assignor to E. R. Dunham, New York, N. Y. Grate-vibrating device for chain-grate stokers. No. 1,136,033; Apr. 20; Gaz. vol. 213; p. 773.
- Morrison, Bartholomew J., assignor to E. R. Dunham, New York, N. Y. Grate-bar for chain-grate stokers. No. 1,146,198; July 13; Gaz. vol. 216; p. 448.
- Morrison, Charles G., Great Bend, Kans. Jack. No. 1,133,391; Mar. 30; Gaz. vol. 212; p. 1412.
- Morrison, George C., Denver, Colo. Hog-dressing machine. No. 1,146,589; July 13; Gaz. vol. 216; p. 587.
- Morrison, Franklin S., Richland, Oreg. Water-power device. No. 1,127,489; Feb. 9; Gaz. vol. 211; p. 331.
- Morrison Frogless Switch Company. (See Krauss, Charles H., assignor.)
- Morrison, James A., Cleveland, Ohio. Car-dumper. No. 1,165,698; Dec. 28; Gaz. vol. 221; p. 1161.
- Morrison, John E., assignor to Safe-T-Lite Co., Memphis, Tenn. Glare-preventive means for headlights. No. 1,132,865; Mar. 23; Gaz. vol. 212; p. 1188.
- Morrison, John S., Great Bend, Kans. Carpet-beater. No. 1,155,952; Oct. 5; Gaz. vol. 219; p. 218.
- Morrison, L. J. (See Koretzky, Israel, assignor.)
- Morrison, Lewis E., Newark, N. J., assignor to Humana Company. Safety-guard for printing-presses. No. 1,155,756; Oct. 5; Gaz. vol. 219; p. 149.
- Morrison, Lewis E., Newark, N. J., assignor to Humana Company. Safety-guard for printing-machines. No. 1,156,423; Oct. 12; Gaz. vol. 219; p. 408.
- Morrison, Lewis E., Newark, N. J., assignor to Humana Company. Safety-guard for printing-presses. No. 1,157,247; Oct. 19; Gaz. vol. 219; p. 728.
- Morrison, Lewis E., Newark, N. J., assignor to Humana Company. Safety-guard for printing-machines. No. 1,158,069; Oct. 26; Gaz. vol. 219; p. 1078.
- Morrison, Lewis J. (See Koretzky, Israel, assignor.)
- Morrison, Robert D. (See Wardell and Morrison.)
- Morrison, Walter N. (See Longee and Morrison.)
- Morrison, Willard L. (See Erickson and Sjostrom, assignors.)
- Morrison, William, Des Moines, Iowa. Power-transmission system. No. 1,126,059; Jan. 26; Gaz. vol. 210; p. 1122.
- Morrison, William, Des Moines, Iowa. Centrifuagally-regulated power-transmission system. No. 1,126,060; Jan. 26; Gaz. vol. 210; p. 1122.
- Morrison, William, Des Moines, Iowa. Dynamo-electric clutch. No. 1,126,061; Jan. 26; Gaz. vol. 210; p. 1123.

Alphabetical list of patentees—Continued.

- Morrison, William, Des Moines, Iowa. Circuit-controller. No. 1,130,320; Mar. 2; Gaz. vol. 212; p. 166.
- Morrison, William, Des Moines, Iowa. Negative-pole plate for alkaline storage batteries. No. 1,139,213; May 11; Gaz. vol. 214; p. 563.
- Morrison, William, Des Moines, Iowa. Electrolyte for secondary batteries. No. 1,139,214; May 11; Gaz. vol. 214; p. 563.
- Morrison, William, Des Moines, Iowa. Power-transmission system. No. 1,148,788; Aug. 3; Gaz. vol. 217; p. 110.
- Morrison, William, Georgiana, Ala. Mail-box. No. 1,146,896; July 20; Gaz. vol. 216; p. 711.
- Morrison, William R., Chicago, Ill. Armored pneumatic tire. No. 1,130,995; Mar. 9; Gaz. vol. 212; p. 435.
- Morrissey, Patrick F., and H. W. Traub, Auburn, N. Y. Portable fire-escape. No. 1,149,394; Aug. 10; Gaz. vol. 217; p. 426.
- Morrissey, Patrick W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Baling-press. No. 1,130,006; Mar. 2; Gaz. vol. 212; p. 58.
- Morrone, Nicola. (See Morrone, William, assignor.)
- Morrone, William, assignor of one-half to N. Morrone, Pittsburgh, Pa. Street-indicator. No. 1,149,392; Aug. 10; Gaz. vol. 217; p. 426.
- Morrow, Alexander P., Elmira, N. Y., assignor to E. Horton & Son Company, Windsor Locks, Conn. Drill-chuck. No. 1,150,142; Aug. 17; Gaz. vol. 217; p. 757.
- Morrow, Alexander P., Elmira, N. Y., assignor to E. Horton & Son Company, Windsor Locks, Conn. Chuck. No. 1,159,247; Nov. 2; Gaz. vol. 220; p. 292.
- Morrow, Alexander P., Elmira, N. Y., assignor to E. Horton & Son Company, Windsor Locks, Conn. Chuck. No. 1,159,248; Nov. 2; Gaz. vol. 220; p. 292.
- Morrow, Alexander W., et al. (See Mitchell, Charles W., assignor.)
- Morrow, Clarence H. (See Schiele and Morrow.)
- Morrow, Horace C., assignor to W. T. Morrow, Wellston, Ohio. Gas-engine recorder. No. 1,161,875; Nov. 30; Gaz. vol. 220; p. 1397.
- Morrow, Jacob H., Eureka, assignor to Hart Grain Weigher Company, Peoria, Ill. Elevator. No. 1,160,523; Nov. 16; Gaz. vol. 220; p. 827.
- Morrow, James. (See Morrow, Richard H. and J.)
- Morrow, John B., and C. P. Geritz, Brooklyn, N. Y. Safety window-cleaning device and ventilator. No. 1,133,306; Mar. 30; Gaz. vol. 212; p. 1381.
- Morrow, Norman H., Bemidji, Minn. Hinge. No. 1,157,713; Oct. 26; Gaz. vol. 219; p. 953.
- Morrow, Richard H., Waukegan, Ill. Suction cleaning-tool. No. 1,128,487; Feb. 16; Gaz. vol. 211; p. 727.
- Morrow, Richard H. and J., Waukegan, Ill. Electric vacuum-cleaner. No. 1,142,353; June 8; Gaz. vol. 215; p. 481.
- Morrow, William B., Shippensburg, Pa. Screen-door fastener. No. 1,155,953; Oct. 5; Gaz. vol. 219; p. 219.
- Morrow, William P., Woodward, Okla. Cultivator. No. 1,130,924; Mar. 9; Gaz. vol. 212; p. 411.
- Morrow, William T. (See Morrow, Horace C., assignor.)
- Morsbach, John W. (See Lidberg, Tidlof, assignor.)
- Morscher, Lawrence N., Lawrence, Kans., assignor to himself and I. Hill. Automatic liquid-weighing apparatus. No. 1,154,042; Sept. 21; Gaz. vol. 218; p. 665.
- Morse, Alfred A., et al. (See Brooks, John F., assignor.)
- Morse, Alfred B., South Easton, Mass. Go-through lace-machine or loom take-up rolls. No. 1,136,431; Apr. 20; Gaz. vol. 213; p. 915.
- Morse, Ancil B., Beloit, Wis. Door-supporting clamp. No. 1,136,701; Apr. 20; Gaz. vol. 213; p. 1010.
- Morse, Arthur J., Newport, Melbourne, Victoria, Australia. Spring-tire. No. 1,158,070; Oct. 26; Gaz. vol. 219; p. 1078.
- Morse, Arthur R., Chicago, Ill. Continuous cooker or evaporator. No. 1,153,170; Sept. 7; Gaz. vol. 218; p. 283.
- Morse, Benjamin E., Canton, assignor to Aseptic Service Company, Boston, Mass. Coin-controlled mechanism. No. 1,148,249; July 27; Gaz. vol. 216; p. 1215.
- Morse Chain Company. (See Morse, Frank L., assignor.)
- Morse, Clyde S., De Kalb, Ill. Resilient tire. No. 1,133,170. Mar. 23; Gaz. vol. 212; p. 1299.
- Morse Code Signal Company. (See Lademan, Otto T., assignor.)
- Morse, Frank L., Ithaca, N. Y. Valve mechanism. No. 1,156,920; Oct. 19; Gaz. vol. 219; p. 611.
- Morse, Frank L., Ithaca, N. Y. Valve-operating mechanism. No. 1,156,921; Oct. 19; Gaz. vol. 219; p. 611.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Drive-chain. No. 1,126,254; Jan. 26; Gaz. vol. 210; p. 1194.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Manufacturing plate-links for drive-chains. No. 1,127,072; Feb. 2; Gaz. vol. 211; p. 144.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiplate drive-chain. No. 1,138,236; May 4; Gaz. vol. 214; p. 179.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiplate power-chain. No. 1,138,237; May 4; Gaz. vol. 214; p. 179.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Safety gear-wheel. No. 1,160,311; Nov. 16; Gaz. vol. 220; p. 754.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Spring sprocket-wheel for drive-chains. No. 1,165,529; Dec. 28; Gaz. vol. 221; p. 1100.
- Morse, John J., and W. B. Mallette, assignors, by mesne assignments, to General Appliance Company, St. Louis, Mo. Cattle-guard. No. 1,136,158; Apr. 20; Gaz. vol. 213; p. 817.
- Morse, John R., Los Angeles, Cal. Hog-shackle. No. 1,166,382; Dec. 28; Gaz. vol. 221; p. 1405.
- Morse, Joseph C., Little River, S. C. Drop-net. No. 1,152,038; Aug. 31; Gaz. vol. 217; p. 1515.
- Morse, Leo, New York, N. Y. Pullman and shampoo apron. No. 1,123,833; Apr. 13; Gaz. vol. 213; p. 663.
- Morse, Mark S. (See Tonks, William H., assignor.)
- Morse, Robert V., Ithaca, N. Y. Air-pumping apparatus. No. 1,134,215; Apr. 6; Gaz. vol. 213; p. 48.
- Morse, Rodolph F., Providence, R. I. Grate-bar. No. 1,155,674; Oct. 5; Gaz. vol. 219; p. 121.
- Morse, William H., Kenosha, Wis. Grinding-block. No. 1,133,739; Mar. 30; Gaz. vol. 212; p. 1537.
- Morss, Charles A., et al., receivers. (See McGrath and Clark, assignors.)
- Mortara, Hugo, assignor to Kabo Corset Co., Chicago, Ill. Buckle. No. 1,153,100; Sept. 7; Gaz. vol. 218; p. 261.
- Mortensen, Martin. (See Ohlsen, Ulrich, assignor.)
- Morthland, George W., Lead, S. D. Trap. No. 1,136,432; Apr. 20; Gaz. vol. 213; p. 915.
- Morton, Albert H., Lowell, Mass. Roving-creel for spinning-frames and the like. No. 1,144,720; June 29; Gaz. vol. 215; p. 1397.
- Morton, Albert H., Lowell, Mass. Carding-engine. No. 1,148,708; Aug. 3; Gaz. vol. 217; p. 80.
- Morton, Albert H., Lowell, Mass. Carding-engine. No. 1,161,067; Nov. 23; Gaz. vol. 220; p. 1066.
- Morton, Albert H., Lowell, Mass. Spinning-frame. No. 1,163,552; Dec. 7; Gaz. vol. 221; p. 285.
- Morton, Albert H., Lowell, Mass. Spinning-frame. No. 1,165,620; Dec. 28; Gaz. vol. 221; p. 1133.
- Morton, Andrew J., Los Angeles, Cal. Twin oil-burner. No. 1,159,249; Nov. 2; Gaz. vol. 220; p. 292.
- Morton, Campbell, Glasgow, Scotland. Hydraulic air-ejector for vacuum cleaning and other purposes. No. 1,135,834; Apr. 13; Gaz. vol. 213; p. 664.
- Morton, Clifford W., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Interlockable metal corner. No. 1,162,798; Dec. 7; Gaz. vol. 221; p. 23.
- Morton, Fred S., assignor to Matthews Manufacturing Company, Worcester, Mass. Roller. No. 1,137,781; May 4; Gaz. vol. 214; p. 21.
- Morton, George, West Grove, Iowa. Combined reel-carriage and wire-stretcher. No. 1,135,041; Apr. 13; Gaz. vol. 213; p. 387.
- Morton, Harry D., Detroit, Mich. Bearing for centrifugal separators. No. 1,124,165; Jan. 5; Gaz. vol. 210; p. 329.
- Morton, Henry E., Muskegon Heights, Mich. Jig. No. 1,145,260; July 6; Gaz. vol. 216; p. 100.
- Morton, Lawrence D., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Carton. No. 1,127,073; Feb. 2; Gaz. vol. 211; p. 144.
- Morton, Lawrence D., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Package-sealing machine. No. 1,138,238; May 4; Gaz. vol. 214; p. 180.
- Morton, Lawrence D., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Sealing boxes. No. 1,144,773; June 29; Gaz. vol. 215; p. 1416.
- Morton, Lawrence D., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Wrapper. No. 1,148,115; July 27; Gaz. vol. 216; p. 1169.
- Morton, Lawrence D., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Handle for paper boxes. No. 1,154,043; Sept. 21; Gaz. vol. 218; p. 665.
- Morton, Lawrence D., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Handle attachment for paper boxes. No. 1,158,707; Nov. 2; Gaz. vol. 220; p. 103.
- Morton, Richard, Casselton, N. D. Truss. No. 1,145,608; July 6; Gaz. vol. 216; p. 220.
- Morton, Rudolph B., Cleveland, Ohio. Steering mechanism for motor-vehicles. No. 1,126,551; Jan. 26; Gaz. vol. 210; p. 1301.
- Morton, Rudolph B., Cleveland, Ohio. Traction-engine. No. 1,126,552; Jan. 26; Gaz. vol. 210; p. 1302.
- Morton, Rudolph B., Cleveland, Ohio. Motor-vehicle. No. 1,162,640; Nov. 30; Gaz. vol. 220; p. 1658.
- Morton, Samuel S., Harrisburg, Pa. Traction-wheel. No. 1,144,373; June 29; Gaz. vol. 215; p. 1279.
- Morton, Scriven C. (See Pamplin and Morton.)
- Morton, Thomas S. (See Pike and Morton.)
- Morton, Walter S., Harrisburg, Pa. Worm-drive for motor-vehicles. (Reissue.) No. 14,039; Dec. 28; Gaz. vol. 221; p. 1421.
- Moru, Carl, assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Lamp structure. No. 1,128,893; Feb. 16; Gaz. vol. 211; p. 868.
- Mosal, Julius A. (See Johnson and Mosal.)
- Mosby, Alfred D., assignor to Marsh Capron Manufacturing Company, Chicago, Ill. Loading apparatus. No. 1,156,245; Oct. 12; Gaz. vol. 219; p. 344.
- Moschcowitz, Herman, New York, N. Y. Form for preserving and displaying waists and other garments. No. 1,156,246; Oct. 12; Gaz. vol. 219; p. 344.

Alphabetical list of patentees—Continued.

- Moscherrosch, Harry G., and C. F. Brocker, Appleton, Wis. Road-drag. No. 1,129,359; Feb. 23; Gaz. vol. 211; p. 1068.
- Moscrip, James E., Derrick, Saskatchewan, Canada. Draft appliance for self-loading grain-carriers. No. 1,135,835; Apr. 13; Gaz. vol. 213; p. 664.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Account-register. No. 1,130,421; Mar. 2; Gaz. vol. 212; p. 202.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,141,403; June 1; Gaz. vol. 215; p. 114.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,141,404; June 1; Gaz. vol. 215; p. 114.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,141,405; June 1; Gaz. vol. 215; p. 115.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,142,115; June 8; Gaz. vol. 215; p. 399.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Hinge for filing appliances. No. 1,148,918; Aug. 3; Gaz. vol. 217; p. 154.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,153,562; Sept. 14; Gaz. vol. 218; p. 464.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, (Incorporated in 1914.) Alliance, Ohio. Filing appliance. No. 1,154,593; Sept. 21; Gaz. vol. 218; p. 854.
- Moseley, Emerson B., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Leaf for filing appliances. No. 1,162,303; Nov. 30; Gaz. vol. 220; p. 1548.
- Mosely, George L., Jacksboro, Tex. Colter attachment for lister-plows. No. 1,137,162; Apr. 27; Gaz. vol. 213; p. 1212.
- Mosely, Jimmie W., Austin, Tex. Attachment for mowers. No. 1,135,463; Apr. 13; Gaz. vol. 213; p. 532.
- Moser, Fred J., Kane, Pa. Head for oil-wells. No. 1,143,302; June 15; Gaz. vol. 215; p. 854.
- Moser, Fred J., Kane, Pa. Anchor for tubings for gas-wells. No. 1,150,875; Aug. 24; Gaz. vol. 217; p. 1071.
- Moser, Milton, Ladysmith, British Columbia, Canada. Smoke-dispenser. No. 1,128,177; Feb. 9; Gaz. vol. 211; p. 571.
- Moser, Samuel L., Upper Sandusky, Ohio. Ditching-machine. No. 1,138,002; May 4; Gaz. vol. 214; p. 97.
- Moser, Vern I., assignor to The Western Iron & Foundry Co., Incorporated, Wichita, Kans. Coal-chute. No. 1,124,502; Jan. 12; Gaz. vol. 210; p. 498.
- Moses, Abram, Baltimore, Md. Visible-card index. No. 1,126,062; Jan. 26; Gaz. vol. 210; p. 1123.
- Moses, Abram, Baltimore, Md. Collapsible pipe. No. 1,126,255; Jan. 26; Gaz. vol. 210; p. 1194.
- Moses, Edmund Q., New York, N. Y., assignor, by mesne assignments, to The B. F. Goodrich Company. Vehicle wheel-rim. No. 1,139,702; May 18; Gaz. vol. 214; p. 771.
- Moses, Lillian L., Chevy Chase, D. C. Costumer. No. 1,160,313; Nov. 16; Gaz. vol. 220; p. 754.
- Moses, Mosé, assignor of one-third to W. F. Arnold and one-third to J. S. Atkins, Jackson, Tenn. Horse-hoof-paring knife. No. 1,162,872; Dec. 7; Gaz. vol. 221; p. 49.
- Moses, Richard, Decatur, Tex. Keyless padlock. No. 1,165,892; Dec. 28; Gaz. vol. 221; p. 1228.
- Moses, William P., Bowmanville, Ontario, Canada. Sash-hanger. No. 1,141,818; June 1; Gaz. vol. 215; p. 255.
- Mosher, Arthur A., Medford, Oreg. Pipe-machine. No. 1,151,704; Aug. 31; Gaz. vol. 217; p. 1397.
- Mosher, Audley E. (See Stewart, Hawkins, and Mosher.)
- Mosher, Charles D., New York, N. Y., assignor, by mesne assignments, to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boller. No. 1,150,951; Aug. 24; Gaz. vol. 217; p. 1097.
- Mosher, Charles D., New York, N. Y., assignor, by mesne assignments, to The Babcock & Wilcox Company, Bayonne, N. J. Superheater. No. 1,150,952; Aug. 24; Gaz. vol. 217; p. 1097.
- Mosher, Charles P., Fullerton, La. Fan. No. 1,126,256; Jan. 26; Gaz. vol. 210; p. 1195.
- Mosher, Eliza M., New York, N. Y. Chair. No. 1,147,905; July 27; Gaz. vol. 216; p. 1113.
- Mosher, George W., Chicago, Ill. Automobile-mirror. No. 1,139,560; May 18; Gaz. vol. 214; p. 720.
- Mosher, M. F. (See Rector, Alcorn, assignor.)
- Mosher, Samuel M., and W. G. Wood, Grand Rapids, Mich. Cross-head pin. No. 1,131,073; Mar. 9; Gaz. vol. 212; p. 462.
- Mosher, Sylvanus D., Storm King-on-the-Hudson, N. Y. Spring-tire. No. 1,160,747; Nov. 16; Gaz. vol. 220; p. 910.
- Mosiman, John, Sedalia, Mo. Work-bench. No. 1,149,671; Aug. 10; Gaz. vol. 217; p. 528.
- Moskowitz, Morris. (See Demjén, John, assignor.)
- Moskowitz, Morris, New York, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Selenium-cell regulator. No. 1,150,953; Aug. 24; Gaz. vol. 217; p. 1097.
- Mosler, Arthur R. (See Furber, Frederick M., assignor.)
- Mosler, Arthur R., assignor to A. R. Mosler & Co., New York, N. Y. Separable spark-plug. No. 1,131,154; Mar. 9; Gaz. vol. 212; p. 489.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe construction. No. 1,126,830; Feb. 2; Gaz. vol. 211; p. 60.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe construction. No. 1,134,216; Apr. 6; Gaz. vol. 213; p. 49.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe construction. No. 1,136,254; Apr. 20; Gaz. vol. 213; p. 851.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe construction. No. 1,140,524; May 25; Gaz. vol. 214; p. 1096.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe construction. No. 1,153,329; Sept. 14; Gaz. vol. 218; p. 378.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Grinding-machine. No. 1,153,510; Sept. 14; Gaz. vol. 218; p. 446.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe construction. No. 1,157,027; Oct. 19; Gaz. vol. 219; p. 649.
- Mosler, Moses, Cincinnati, and C. Bartels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Safe. No. 1,157,412; Oct. 19; Gaz. vol. 219; p. 786.
- Mosler Safe Company, The. (See Mosler and Bartels, assignors.)
- Mosling, Bernhard A. (See Besserlich, William A., assignor.)
- Mosman, Charles F., Quincy, assignor to Premier Manufacturing Company, Boston, Mass. Tag-attaching device. No. 1,159,527; Nov. 9; Gaz. vol. 220; p. 421.
- Moss, Arthur H., Misterton, Gainsborough, England. Grinding or crushing machinery. No. 1,154,532; Sept. 21; Gaz. vol. 218; p. 832.
- Moss, Charles, New York, N. Y. Armored pneumatic tire. No. 1,161,507; Nov. 23; Gaz. vol. 220; p. 1224.
- Moss, Ernest, Christchurch, New Zealand. Postal franking-machine. No. 1,129,111; Feb. 23; Gaz. vol. 211; p. 981.
- Moss, Henry E., Kansas City, Mo. Box-car construction. No. 1,162,943; Dec. 7; Gaz. vol. 221; p. 72.
- Moss, Louise G. (See Huff, William D., assignor.)
- Moss, Samuel E., and W. H. White, Portland, Oreg. Coin-controlled vending apparatus. No. 1,165,271; Dec. 21; Gaz. vol. 221; p. 973.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,130,187; Mar. 2; Gaz. vol. 212; p. 121.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 1,154,533; Sept. 21; Gaz. vol. 218; p. 832.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,156,613; Oct. 12; Gaz. vol. 219; p. 473.
- Moss, William T., assignor of one-half to F. Buckman, Denver, Colo. Dust-cloth holder. No. 1,139,561; May 18; Gaz. vol. 214; p. 720.
- Mossberg, Frank, assignor to Frank Mossberg Company, Attleboro, Mass. Wrench. No. 1,165,995; Dec. 28; Gaz. vol. 221; p. 1263.
- Mossé, Edgar, Lille, France. Advertising apparatus. No. 1,128,488; Feb. 16; Gaz. vol. 211; p. 727.
- Mossig, Max, Berlin, and E. Sachs, Schweinfurt, Germany, assignors, by mesne assignments, to The Bearings Company of America, Jersey City, N. J. Ball-bearing. No. 1,146,271; July 13; Gaz. vol. 216; p. 474.
- Mossman, James, assignor to The M. J. Cuning Company, Cincinnati, Ohio. Marking ink or fluid for use on embroidery fabrics or sheets. No. 1,159,857; Nov. 9; Gaz. vol. 220; p. 543.
- Mossop, Frances, Washington, D. C. Receptacle. No. 1,163,841; Dec. 14; Gaz. vol. 221; p. 434.
- Mostechnik, John, Cleveland, Ohio. Wire-drawing machine. No. 1,160,189; Nov. 16; Gaz. vol. 220; p. 712.
- Mosteller, Dosier H., assignor to J. M. Berry and W. Tinsley, Chicago, Ill. Water-heater. No. 1,138,593; May 4; Gaz. vol. 214; p. 303.
- Mosteller, Dosier H., Chicago, Ill., assignor of one-half to R. Malcom, Chicago, Ill., and one-half to G. C. Buquo, Asheville, N. C. Ice-cream spoon. No. 1,142,354; June 8; Gaz. vol. 215; p. 482.
- Mostizer, George A., Schenectady, N. Y. Adjustable box-holder. No. 1,146,199; July 13; Gaz. vol. 216; p. 449.

Alphabetical list of patentees—Continued.

- Mostoller, Mervin, Stoyestown, Pa. Poison-bottle. No. 1,155,082; Sept. 28; Gaz. vol. 218; p. 1050.
- Moszynski, Jozyp, Philadelphia, Pa. Tanning and waterproofing leather. No. 1,157,952; Oct. 26; Gaz. vol. 219; p. 1036.
- Motes, George. (See Brubaker and Motes.)
- Motes, John R., Slocumb, Ala. Wheel-chair or wheel-chair truck. No. 1,124,717; Jan. 12; Gaz. vol. 210; p. 576.
- Motion Picture Appliance Corporation. (See Wolfsohn, Adolf, assignor.)
- Motley, Alfred H., Jr., assignor, by mesne assignments, to Lithotek Corporation, New York, N. Y. Machine for transferring designs. No. 1,128,351; Feb. 16; Gaz. vol. 211; p. 681.
- Motley, Alfred H., Jr., and O. Chouinard, assignors, by mesne assignments, to Lithotek Corporation, New York, N. Y. Step and repeat machine. No. 1,131,630; Mar. 9; Gaz. vol. 212; p. 655.
- Motograph Company of America. (See Bickley, Everett H., assignor.)
- Motor Appliance Sales Company. (See Carrico, Frank D., assignor.)
- Motor Compressor Company. (See Spohrer, Gregory J., assignor.)
- Motor Cooling Systems Company, The. (See La Porte, Norbert M., assignor.)
- Motor and Gear Improvement Company. (See Fischer, Martin, assignor.)
- Motor Specialties Company. (See Hersee and Lombard, assignors.)
- Motorflex Equipment Company. (See Prescott, Sydney I., assignor.)
- Motoring Clock Manufacturing Company. (See Dale, Frank M., assignor.)
- Motroni, Alfred, New York, N. Y. Bottle-stopper. No. 1,127,912; Feb. 9; Gaz. vol. 211; p. 479.
- Motsinger Device Manufacturing Company. (See Motsinger, Homer N., assignor.)
- Motsinger, Homer N., La Fayette, Ind. Proportioning device especially designed for carbureters. No. 1,140,525; May 25; Gaz. vol. 214; p. 1097.
- Motsinger, Homer N., La Fayette, Ind. Machine for forming solids of revolutions. No. 1,148,611; Aug. 3; Gaz. vol. 217; p. 46.
- Motsinger, Homer N., La Fayette, Ind. Carbureter. No. 1,165,359; Dec. 21; Gaz. vol. 221; p. 1002.
- Motsinger, Homer N., assignor to Motsinger Device Manufacturing Company, La Fayette, Ind. Nebulizing-nozzle. No. 1,133,656; Mar. 30; Gaz. vol. 212; p. 1508.
- Motsinger, William S., Crab Orchard, Ill. Pulley-mounting. No. 1,151,811; Aug. 31; Gaz. vol. 217; p. 1437.
- Mott, Abram C., Jr., Philadelphia, Pa. Hinged shelf. No. 1,165,112; Dec. 21; Gaz. vol. 221; p. 918.
- Mott, Augustus P. (See Drabold and Mott.)
- Mott, Herbert E. (See Hubbard, Elias E., assignor.)
- Mott, James W., Cresco, Iowa, assignor of one-third to A. C. and C. Christen, Decorah, Iowa. Headlight-turning mechanism for vehicles. No. 1,158,071; Oct. 26; Gaz. vol. 219; p. 1078.
- Mott, Joseph C., Great Neck, N. Y. Trick-card. No. 1,124,639; Jan. 12; Gaz. vol. 210; p. 549.
- Mott, William R., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Arc-light electrode. No. 1,134,148; Apr. 6; Gaz. vol. 213; p. 23.
- Mott, William R., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Arc-light electrode. No. 1,147,422; July 20; Gaz. vol. 216; p. 897.
- Mott, William R., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Arc-lamp electrode. No. 1,148,183; July 27; Gaz. vol. 216; p. 1193.
- Mott, William R., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electric-arc lamp. No. 1,148,184; July 27; Gaz. vol. 216; p. 1193.
- Motter, George J., assignor of one-half to G. R. Perry, Washington, D. C. Antislipping attachment for vehicle wheels. No. 1,159,068; Nov. 2; Gaz. vol. 220; p. 227.
- Mottern, George C., Jonesboro, Tenn. Bag-holder. No. 1,133,171; Mar. 23; Gaz. vol. 212; p. 1299.
- Motz, Frederick J., Cincinnati, Ohio. Making paper boxes. No. 1,136,479; Apr. 20; Gaz. vol. 213; p. 932.
- Motznik, John, et al. (See Haines, Iven L., assignor.)
- Motznik, John and R. D., Cuyahoga Falls, Ohio. Porch-swing. No. 1,159,069; Nov. 2; Gaz. vol. 220; p. 227.
- Motznik, Rudolf D. (See Motznik, John and R. D.)
- Motznik, Rudolf D., et al. (See Haines, Iven L., assignor.)
- Mouat, Thomas G., Cleveland, Ohio. Steam-gage. No. 1,128,805; Feb. 16; Gaz. vol. 211; p. 836.
- Mouawad, John J., Newark, N. J. Exhibitor. No. 1,155,083; Sept. 28; Gaz. vol. 218; p. 1050.
- Moul, Herbert E., London, England, assignor to Westinghouse Electric and Manufacturing Company. Arc-lamp. No. 1,135,129; Apr. 13; Gaz. vol. 213; p. 418.
- Moulthrop, Charles B., et al. (See Stone and Brown, assignors.)
- Moulthrop, Charles B., and L. C. Jackson, Buffalo, N. Y. Wrench. No. 1,155,158; Sept. 28; Gaz. vol. 218; p. 1077.
- Moulton, Frank, Sunnyside, Wash. Vaginal irrigator. No. 1,159,250; Nov. 2; Gaz. vol. 220; p. 293.
- Moulton, Frank W., assignor to Stecher Lithographic Company, Rochester, N. Y. Stick-feeding mechanism for paper-treating machinery. No. 1,123,571; Jan. 5; Gaz. vol. 210; p. 127.
- Moulton, Fred H., Lexington, Mass. Extension-trestle. No. 1,140,390; May 25; Gaz. vol. 214; p. 1047.
- Moulton, Frederick M., l'ne island, Minn. Brake. No. 1,151,374; Aug. 24; Gaz. vol. 217; p. 1238.
- Moulton, Ira C. (See Fraser, James S., assignor.)
- Moulton, Ira C., Boston, assignor to Simplex Self-Hoisting Machine Company, Waltham, Mass. Hoisting device. No. 1,124,938; Jan. 12; Gaz. vol. 210; p. 654.
- Moulton, James N. (See Chamberlin and Moulton.)
- Moulton, James N., Haverhill, assignor to Walpole Shoe Supply Company, Boston, Mass. Machine for preparing insoles. No. 1,154,716; Sept. 28; Gaz. vol. 218; p. 924.
- Moulton, William, assignor to F. W. Weaver and Company, Attleboro, Mass. Clasp. No. 1,127,074; Feb. 2; Gaz. vol. 211; p. 144.
- Mount, Finley P., receiver. (See Jacobs, George S., assignor.)
- Mount, William, Sydney, New South Wales, Australia. Appliance for polishing floors or floor-coverings. No. 1,141,478; June 1; Gaz. vol. 215; p. 141.
- Mountain City Mill Co. (See Christensen, Henry A., assignor.)
- Mountford, Frederick. (See Grove, Joseph, assignor.)
- Mounts, Eli P., Seattle, Wash. Game apparatus. No. 1,128,489; Feb. 16; Gaz. vol. 211; p. 728.
- Mountz, Louis J., Richmond, Va. Secret ballot. No. 1,146,847; July 13; Gaz. vol. 216; p. 606.
- Mouton, Willem A., The Hague, Netherlands, A. Barr and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Apparatus for the conversion of motion according to one law into motion according to another law. No. 1,150,785; Aug. 17; Gaz. vol. 217; p. 980.
- Mowers, Arthur D., Fillmore, N. D. Dirigible automobile-lamp. No. 1,163,027; Dec. 7; Gaz. vol. 221; p. 102.
- Mowitz, Albert C., Collingswood, assignor of one-half to H. Tiedemann, Camden, N. J. Display-case. No. 1,125,870; Jan. 19; Gaz. vol. 210; p. 1020.
- Mowry, Joseph B., Cleveland, Ohio. Means for releasing a check-valve. No. 1,138,239; May 4; Gaz. vol. 214; p. 180.
- Mowry, William, Marshalltown, Iowa. Plow. No. 1,134,149; Apr. 6; Gaz. vol. 213; p. 23.
- Moxey, James A., Chicago, Ill., assignor to International Harvester Corporation. Fifth-wheel. No. 1,139,703; May 18; Gaz. vol. 214; p. 771.
- Moxham, Arthur J., Wilmington, Del. Ore-separating. No. 1,151,117; Aug. 24; Gaz. vol. 217; p. 1152.
- Moyer, Charles F., et al. (See Akin, Willis H., assignor.)
- Moyer, Harvey A. (See Kavle, Oscar C., assignor.)
- Moyer, Harvey A. (See Latta, Emmitt G., assignor.)
- Moyer, Harvey A., assignor of one-half to E. G. Latta, Syracuse, N. Y. Type-writing machine. No. 1,164,660; Dec. 21; Gaz. vol. 221; p. 759.
- Moyer, John T., Philadelphia, Pa. Automatic car-signal. No. 1,142,605; June 8; Gaz. vol. 215; p. 570.
- Moyer, Malcolm B., Montevideo, Minn. Hoisting-drum and clutch. No. 1,141,819; June 1; Gaz. vol. 215; p. 256.
- Moyer, Malcolm B., Montevideo, Minn. Hinge. No. 1,160,436; Nov. 16; Gaz. vol. 220; p. 796.
- Moyer, Malcolm B., Montevideo, Minn. Track-hanger. No. 1,165,699; Dec. 28; Gaz. vol. 221; p. 1162.
- Moyers, William H. (See Hise and Moyers.)
- Moyle, Edward H., Los Angeles, Cal. Ore-feeder for stamp-mills and the like. No. 1,124,503; Jan. 12; Gaz. vol. 210; p. 498.
- Moyle, Edward H., Los Angeles, Cal. Discharge-gate for tanks. No. 1,126,063; Jan. 26; Gaz. vol. 210; p. 1124.
- Moyle, Edward H., Los Angeles, Cal. Stamp-mill. No. 1,137,272; Apr. 27; Gaz. vol. 213; p. 1253.
- Moyle, Edward H., Los Angeles, Cal. Rock-crusher. No. 1,142,116; June 8; Gaz. vol. 215; p. 400.
- Moynihan, Jeremiah A., assignor of one-half to T. E. Sands, Minneapolis, Minn. Car-replacer. No. 1,131,941; Mar. 16; Gaz. vol. 212; p. 800.
- Moynihan, Jeremiah A., assignor of one-half to T. E. Sands, Minneapolis, Minn. Car-replacer. No. 1,155,431; Oct. 5; Gaz. vol. 219; p. 37.
- Moynihan, John P., assignor to The Blackstone Manufacturing Company, Jamestown, N. Y. Hinge. No. 1,132,601; Mar. 23; Gaz. vol. 212; p. 1089.
- Mödzler, Aloys, Shelton, Conn. Fire-alarm box. No. 1,156,705; Oct. 12; Gaz. vol. 219; p. 506.
- Mozolan, Louis, Montgomery, Ala. Liquid-level-alarm apparatus. No. 1,141,820; June 1; Gaz. vol. 215; p. 256.
- Mt. Holyoke Tissue Mills. (See McCorkindale, William, assignor.)
- Mt. Holyoke Tissue Mills. (See Teall, Oliver E., assignor.)
- Mt. Joy, Albert, Greensburg, Pa. Furnace. No. 1,151,705; Aug. 31; Gaz. vol. 217; p. 1398.
- Mt. Vernon Co. (See Schneider, Louis H., assignor.)
- Mucci, Saverio, Syracuse, N. Y. Assembling-machine. No. 1,163,255; Dec. 7; Gaz. vol. 221; p. 183.
- Muchnic, Harry E., Atchison, Kans. Railway grade-crossing. No. 1,154,534; Sept. 21; Gaz. vol. 218; p. 832.

Alphabetical list of patentees—Continued.

- Muckenbirt, Charles H., Detroit, Mich. Water-closet. No. 1,152,962; Sept. 7; Gaz. vol. 218; p. 214.
- Muckenbirt, Charles H., Detroit, Mich., assignor, by mesne assignments, to The Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Water-closet bowl. No. 1,132,109; Mar. 16; Gaz. vol. 212; p. 861.
- Muckenbirt, Charles H., Detroit, Mich., assignor, by mesne assignments, to The Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Siphon closet-bowl. No. 1,132,866; Mar. 23; Gaz. vol. 212; p. 1188.
- Muckenbirt, Charles H., Detroit, Mich., assignor to The Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Supporting means for closet-bowls. No. 1,165,016; Dec. 21; Gaz. vol. 221; p. 883.
- Muckleroy, William C., et al. (See Cox, Thomas E., assignor.)
- Mudd, Rella E., Stronghurst, Ill. Marker for corn-planters. No. 1,134,891; Apr. 6; Gaz. vol. 213; p. 289.
- Mudge, Solomon H., Chicago, Ill. Folder for window-envelop inclosures. No. 1,164,844; Dec. 21; Gaz. vol. 221; p. 824.
- Muehl, William F., Syracuse, N. Y. Oxygen-generator. No. 1,160,524; Nov. 16; Gaz. vol. 220; p. 828.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,125,150; Jan. 19; Gaz. vol. 210; p. 764.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Means for controlling the pump or the indenter of a machine for making printing-slugs. No. 1,133,568; Mar. 30; Gaz. vol. 212; p. 1476.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Distributing mechanism of typographical composing and casting machines. No. 1,136,550; Apr. 20; Gaz. vol. 213; p. 956.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing and distributing machine. No. 1,136,551; Apr. 20; Gaz. vol. 213; p. 957.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing and casting machine. No. 1,137,013; Apr. 27; Gaz. vol. 213; p. 1158.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,014; Apr. 27; Gaz. vol. 213; p. 1159.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,138,003; May 4; Gaz. vol. 214; p. 98.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,138,135; May 4; Gaz. vol. 214; p. 146.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Distributing mechanism of typographical composing and casting machines. No. 1,139,704; May 18; Gaz. vol. 214; p. 772.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,149,672; Aug. 10; Gaz. vol. 217; p. 529.
- Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,153,511; Sept. 14; Gaz. vol. 218; p. 446.
- Muehlmann, Charles J., Detroit, Mich. Gas control valve and igniter. No. 1,144,427; June 29; Gaz. vol. 215; p. 1298.
- Mueller, Adolf E. (See Irion and Mueller.)
- Mueller, Adolph, et al., executors. (See Mueller, Henry.)
- Mueller, Alexander V., Oswego, N. Y. Multistage centrifugal pump. No. 1,130,422; Mar. 2; Gaz. vol. 212; p. 203.
- Mueller, Arthur, New York, N. Y. Safety device for elevators. No. 1,163,165; Dec. 7; Gaz. vol. 221; p. 151.
- Mueller, Arthur A. (See Harris, Edwin D., assignor.)
- Mueller, Edward T. (See Christoph and Mueller.)
- Mueller, Emil C. G., Elizabeth, N. J., assignor to Western Electric Company, New York, N. Y. Connector. No. 1,125,370; Jan. 19; Gaz. vol. 210; p. 845.
- Mueller, Ernest, Staten Island, and W. R. McKenney, New York, N. Y. Conduit for electric wires. No. 1,165,530; Dec. 28; Gaz. vol. 221; p. 1100.
- Mueller, Felix J. (See Allen and Mueller.)
- Mueller, Frank, Allentown, Pa. Explosive-engine. No. 1,127,799; Feb. 9; Gaz. vol. 211; p. 439.
- Mueller, Frank, Allentown, Pa., assignor to International Motor Company, Wilmington, Del. Hoisting-gearing for motor-trucks. No. 1,138,004; May 4; Gaz. vol. 214; p. 98.
- Mueller, Frederick W. (See Shirley and Mueller.)
- Mueller, George E., Adrian, Mich. Gate-hinge. No. 1,123,913; Jan. 5; Gaz. vol. 210; p. 244.
- Mueller, George E., Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-key. No. 1,134,282; Apr. 6; Gaz. vol. 213; p. 73.
- Mueller, George E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Non-interfering switch device. No. 1,152,963; Sept. 7; Gaz. vol. 218; p. 214.
- Mueller, George E., La Grange, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Party-line telephone system. No. 1,164,662; Dec. 21; Gaz. vol. 221; p. 760.
- Mueller, George H., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Car-dumping apparatus. No. 1,136,829; Apr. 20; Gaz. vol. 213; p. 1036.
- Mueller, Henry, deceased, Decatur, Ill.; O. B. and A. Mueller, executors. Adjustable pipe connection. No. 1,163,679; Dec. 14; Gaz. vol. 221; p. 374.
- Mueller, Herman C., assignor to Evinrude Motor Company, Milwaukee, Wis. Ignition magneto-generator. No. 1,133,053; Mar. 23; Gaz. vol. 212; p. 1257.
- Mueller, Herman C., assignor to Evinrude Motor Company, Milwaukee, Wis. Igniter magneto-generator. No. 1,147,038; July 20; Gaz. vol. 216; p. 763.
- Mueller, John, Providence, R. I. Locking-bar for gates. No. 1,141,479; June 1; Gaz. vol. 215; p. 141.
- Mueller, John L., St. Louis, Mo. Oil-cloth stand. No. 1,144,229; June 22; Gaz. vol. 215; p. 1201.
- Mueller, John S., Chicago, Ill. Split-pole induction-motor. No. 1,164,302; Dec. 14; Gaz. vol. 221; p. 592.
- Mueller, Kurt L. E., Detroit, assignor to F. A. Roese, Mount Clemens, Mich. Rotary oscillatory engine. No. 1,130,188; Mar. 2; Gaz. vol. 212; p. 121.
- Mueller, Louis, Cincinnati, Ohio. Socket-wrench. No. 1,155,675; Oct. 5; Gaz. vol. 219; p. 122.
- Mueller, Martin. (See Millicie and Mueller.)
- Mueller, Ora B., et al., executors. (See Mueller, Henry.)
- Mueller, Oscar B., New Rochelle, N. Y., and D. H. Buell, Marietta, Ohio, assignors to National Water Main Cleaning Company. Means for supporting sheaves. No. 1,145,916; July 13; Gaz. vol. 216; p. 348.
- Mueller, Oscar W., Cincinnati, Ohio. Clutch. No. 1,141,137; June 1; Gaz. vol. 215; p. 16.
- Mueller, Oscar W., Cincinnati, Ohio. Turning or boring appliance. No. 1,153,241; Sept. 14; Gaz. vol. 218; p. 347.
- Mueller, Philip, assignor to H. Mueller Mfg. Co., Decatur, Ill. Nipple and assembly for attaching nipples. No. 1,124,504; Jan. 12; Gaz. vol. 210; p. 499.
- Mueller, Philip, assignor to H. Mueller Mfg. Co., Decatur, Ill. Sanitary drinking-fountain. No. 1,157,173; Oct. 19; Gaz. vol. 219; p. 701.
- Mueller, Philip, and A. C. Schuermann, assignors to The H. Mueller Manufacturing Company, Decatur, Ill. Sanitary drinking-fountain. (Reissue.) No. 13,960; Aug. 10; Gaz. vol. 217; p. 649.
- Mueller, Robert, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Self-retaining coupling-washer. No. 1,157,574; Oct. 19; Gaz. vol. 219; p. 840.
- Mueller, Rudolph J. J., Milwaukee, Wis., assignor, by mesne assignments, to Oxweld Acetylene Company, Chicago, Ill. Cutting metals. No. 1,142,355; June 8; Gaz. vol. 215; p. 482.
- Muench, Carl G., St. Paul, Minn. Thermo-non-conductor. No. 1,153,512; Sept. 14; Gaz. vol. 218; p. 446.
- Muench, William C., assignor to Progress Machine Co., Indianapolis, Ind. Bottle-feeding mechanism. No. 1,128,030; Feb. 9; Gaz. vol. 211; p. 520.
- Muerrie, Charles A., Toronto, Ontario, Canada. Overshoe for horses. No. 1,146,200; July 13; Gaz. vol. 216; p. 449.
- Mueser, William, New York, N. Y. Reservoir and tank. No. 1,138,394; May 4; Gaz. vol. 214; p. 238.
- Muessel, Henry A., South Bend, Ind. Bottle-crowning machine. No. 1,165,700; Dec. 28; Gaz. vol. 221; p. 1162.
- Mulley, John F. (See Freeman, James D., assignor.)
- Muffy, Clarence M., Howard, Pa. Carrying and display case. No. 1,163,256; Dec. 7; Gaz. vol. 221; p. 183.
- Mühlbach, Ferdinand, New York, N. Y. Horseshoe-attachment-securing means. No. 1,153,101; Sept. 7; Gaz. vol. 218; p. 261.
- Mühlbauer, Ernst C., assignor to Universelle Cigaretten-Maschinen-Industrie System Otto Bergsträsser Aktien-gesellschaft, Dresden-Löbtau, Germany. Knife-shifting attachment for cigarette and cigarette-sleeve machines. No. 1,148,250; July 27; Gaz. vol. 216; p. 1215.
- Mühlbeck, Ida. (See Hermanns and Merkel, assignors.)
- Muhleman, Charles H., Western Springs, Ill., assignor of fifty-five one-hundredths to F. Low, St. Louis, Mo. Pan-motion concentrator. No. 1,141,972; June 8; Gaz. vol. 215; p. 346.
- Muhsold, Bernard, Washington, D. C. Water-lifting device. No. 1,133,996; Mar. 30; Gaz. vol. 212; p. 1623.
- Muir, James A., Cincinnati, Ohio, assignor to The Toledo Electric Welder Company. Electric welding. No. 1,142,833; June 15; Gaz. vol. 215; p. 687.
- Muir, Reginald L., San Francisco, Cal. Endless chain saw. No. 1,123,783; Jan. 5; Gaz. vol. 210; p. 200.
- Muir, Wellington V., Baltimore, Md. Carbureter. No. 1,143,986; June 22; Gaz. vol. 215; p. 1113.
- Muir, Wellington V., Baltimore, Md. Carbureter. No. 1,147,337; July 20; Gaz. vol. 216; p. 865.
- Muir, Wellington V., Baltimore, Md. Carbureter. No. 1,164,661; Dec. 21; Gaz. vol. 221; p. 759.
- Muirhead, William J. A., Seattle, Wash. Furnace. No. 1,154,717; Sept. 28; Gaz. vol. 218; p. 925.
- Mulch, Balthaser H. T. (See Mulch, Theodore H. and B. H. T.)

Alphabetical list of patentees—Continued.

- Mulch, Theodore H. and B. H. T., New York, N. Y. Water-filter. No. 1,143,129; June 15; Gaz. vol. 215; p. 792.
- Mulder, Peter W., Bethel, Kans., assignor to E. L. Miller, Kansas City, Mo. Mop-holder. No. 1,123,784; Jan. 5; Gaz. vol. 210; p. 201.
- Mulford, Logan W., New York, N. Y. Vault-light construction and securing lenses therein. No. 1,159,858; Nov. 9; Gaz. vol. 220; p. 543.
- Mulhall, Michael J., Brooklyn, N. Y. Reversible driving-gear. No. 1,134,480; Apr. 6; Gaz. vol. 213; p. 145.
- Mulholland, William E., Juneau, Alaska. Camera attachment. No. 1,131,410; Mar. 9; Gaz. vol. 212; p. 578.
- Mulholland, Mathew, Cleveland, Ohio. Hatch-fastener. No. 1,126,064; Jan. 26; Gaz. vol. 210; p. 1124.
- Mulholland, Mathew, Cleveland, Ohio. Sheave-lubricating device. No. 1,140,475; May 25; Gaz. vol. 214; p. 1078.
- Mullaney, John F., Colorado Springs, Colo. Door-check. No. 1,143,773; June 22; Gaz. vol. 215; p. 1039.
- Mullaney, Thomas F., New York, N. Y. Self-locking pin. No. 1,152,749; Sept. 7; Gaz. vol. 218; p. 135.
- Mullen, Frank J., Leasburg, Mo. Nut-lock. No. 1,124,056; Jan. 5; Gaz. vol. 210; p. 291.
- Mullen, Peter. (See Harrington and Mullen.)
- Mullen, Simon S., Watertown, Wis. Eye-shield. No. 1,152,431; Sept. 7; Gaz. vol. 218; p. 17.
- Müller, Auguste R., Walthamstow, England. Electric insulator. No. 1,159,409; Nov. 9; Gaz. vol. 220; p. 380.
- Müller, Carl, Ludwigshafen-on-the-Rhine, and W. Stober, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Brown sulfur dye. No. 1,165,531; Dec. 23; Gaz. vol. 221; p. 1100.
- Müller, Eberhard, Frankfurt-on-the-Main, Germany. Last for footwear. No. 1,130,423; Mar. 2; Gaz. vol. 212; p. 203.
- Müller, Emil, Dusseldorf, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Arrangement for automatically varying the elevation of a gun for a given range according to the height of the target. No. 1,143,428; June 15; Gaz. vol. 215; p. 899.
- Müller, Frank X., assignor to Republic Hose Coupler Corporation, Buffalo, N. Y. Hose-coupling. No. 1,160,944; Nov. 16; Gaz. vol. 220; p. 978.
- Müller, Friederich, Elizabeth, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Machine-tool. No. 1,139,794; May 18; Gaz. vol. 214; p. 802.
- Müller, Friederich, assignor to Pratt & Whitney Company, Hartford, Conn. Grinding-machine. (Reissue.) No. 13,930; June 15; Gaz. vol. 215; p. 961.
- Müller, Friederich, assignor to Pratt & Whitney Company, Hartford, Conn. Electric welding-machine. No. 1,151,706; Aug. 31; Gaz. vol. 217; p. 1398.
- Müller, Friederich, assignor to Pratt & Whitney Company, Hartford, Conn. Tap-making machine. No. 1,155,432; Oct. 5; Gaz. vol. 219; p. 38.
- Müller, Friederich, Hartford, Conn., assignor, by mesne assignments, to The American Dan Stopper Company. Bottle-capping machine. No. 1,159,251; Nov. 2; Gaz. vol. 220; p. 293.
- Muller, George, Ridgewood, N. J. Amusement apparatus. No. 1,141,821; June 1; Gaz. vol. 215; p. 256.
- Müller, Hans, executor. (See Stock, Robert.)
- Müller, Henry, assignor of one-half to J. Bernhard, Philadelphia, Pa. Sanitary guard for water-closet seats. No. 1,158,142; Oct. 26; Gaz. vol. 219; p. 1103.
- Müller, Henry N., Pittsburgh, Pa., assignor to The Johns-Pratt Company, Hartford, Conn. Fuse-clip. No. 1,133,569; Mar. 30; Gaz. vol. 212; p. 1476.
- Müller, Herman. (See Diehl and Müller.)
- Müller, Jakob, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Means for controlling the injection-air of combustion-engines. No. 1,126,831; Feb. 2; Gaz. vol. 211; p. 60.
- Müller, Johann J. (See Koch and Müller.)
- Muller, John P., San Fernando, Cal. Water-hoisting system. No. 1,127,490; Feb. 9; Gaz. vol. 211; p. 331.
- Müller, John P., Freeport, Ill. Box-car door. No. 1,144,048; June 22; Gaz. vol. 215; p. 1137.
- Muller, Joseph, New York, N. Y. Cooking utensil. No. 1,162,641; Nov. 30; Gaz. vol. 220; p. 1658.
- Müller, Karl C. (See Oesterlen and Müller.)
- Müller, Paul. (See Schmidt and Müller.)
- Müller, Richard, Eilenburg, Germany. Manufacture of organic acid anhydrides or of mixtures of such anhydrides with their acids. No. 1,153,402; Sept. 14; Gaz. vol. 218; p. 406.
- Müller, Richard, Eilenburg, assignor to Luftbleiche G. m. b. H., Eilenburg, near Leipzig, Germany. Bleaching. No. 1,163,438; Dec. 7; Gaz. vol. 221; p. 246.
- Müller, Robert, Barmen, Germany. Reed for looms. No. 1,158,828; Nov. 2; Gaz. vol. 220; p. 148.
- Müller, Wilhelm, Bernberg, Germany. Turbine for tube-cleaners. No. 1,126,553; Jan. 26; Gaz. vol. 210; p. 1302.
- Mullett, Edward R., and W. D. Fowler, Bridgeville, Del. Currycomb. No. 1,164,204; Dec. 14; Gaz. vol. 221; p. 558.
- Mullett, Howard A., assignor to The Milwaukee Electric Railway & Light Company, Milwaukee, Wis. Car-fender. No. 1,142,834; June 15; Gaz. vol. 215; p. 688.
- Mullett, Norman, Mortlach, Saskatchewan, Canada. Plowshare-tongs. No. 1,147,533; July 20; Gaz. vol. 216; p. 935.
- Mulligan, James M., Henryetta, assignor of one-half to C. B. Blackburn, Coalton, Okla. Cattle-guard. No. 1,165,276; Dec. 21; Gaz. vol. 221; p. 974.
- Mulligan, Thomas F., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Registering or counting device. No. 1,127,491; Feb. 9; Gaz. vol. 211; p. 332.
- Mulligan, Thomas F., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Force-pump. No. 1,132,670; Mar. 23; Gaz. vol. 212; p. 1115.
- Mulligan, William P., assignor of one-half to A. Ross, St. Paul, Minn. Electric-circuit connector. No. 1,158,708; Nov. 2; Gaz. vol. 220; p. 103.
- Mullin, George B., et al. (See Stroud, Thomas L., assignor.)
- Mullin, Joseph H., Millinburg, Pa. Spring-wheel. No. 1,132,867; Mar. 23; Gaz. vol. 212; p. 1189.
- Mullins, Michael, Seattle, Wash. Stump-puller. No. 1,136,702; Apr. 20; Gaz. vol. 213; p. 1011.
- Müllner, Anton, assignor of one-half to H. Reinhardt, Vienna, Austria-Hungary. Apparatus for projecting cinematographic views. No. 1,159,981; Nov. 9; Gaz. vol. 220; p. 586.
- Mulowney, Timothy, Milwaukee, Wis. Blower-pipe-assembling derrick. No. 1,157,248; Oct. 19; Gaz. vol. 219; p. 729.
- Mulock, William R., Winnipeg, Manitoba, Canada. Platen for type-writing machines. No. 1,156,614; Oct. 12; Gaz. vol. 219; p. 474.
- Multi Speed Shutter Company. (See Dietz, Gustav, assignor.)
- Multiple-Grate-Bar Endless Chain Stoker Company. (See Clark, Francis M., assignor.)
- Multiple-Grate-Bar Endless Chain Stoker Company. (See Iserman, Harvey, assignor.)
- Multiplex Display Fixture Company. (See Feldman and Creelius, assignors.)
- Multipost Company. (See Lederman, John E., assignor.)
- Mulvaney, Seth, Inglewood, assignor of one-half to F. K. Hurxthal, Los Angeles, Cal. Heater for gaseous fuel. No. 1,128,998; Feb. 16; Gaz. vol. 211; p. 906.
- Mulvehill, John D., Spokane, Wash. Non-refillable bottle. No. 1,151,896; Aug. 31; Gaz. vol. 217; p. 1466.
- Mulvenon, A. V. (See Hartin, Robert C., assignor.)
- Mulvey, Frank, Waupun, Wis. Railway-brake-setting mechanism. No. 1,155,504; Oct. 5; Gaz. vol. 219; p. 64.
- Muma, I. J. (See Picotte, Lloyd A., assignor.)
- Mumford, Edgar H., Plainfield, N. J. Making castings. No. 1,123,914; Jan. 5; Gaz. vol. 210; p. 244.
- Mumford, Edgar H., deceased, Plainfield, N. J.; R. S. Mumford, executrix. Molding-machine. No. 1,151,213; Aug. 24; Gaz. vol. 217; p. 1186.
- Mumford, Gordon S., New York, N. Y. Apparatus for casting concrete walls. No. 1,137,416; Apr. 27; Gaz. vol. 213; p. 1306.
- Mumford, Gordon S., New York, N. Y. Concrete-construction apparatus. No. 1,143,429; June 15; Gaz. vol. 215; p. 900.
- Mumford, John, Frankfurt, Ohio. Wire-pliers. No. 1,129,828; Feb. 23; Gaz. vol. 211; p. 1227.
- Mumford, John, Frankfurt, assignor of one-third to E. A. Tinker and one-third to F. B. Maullar, Chillicothe, Ohio. Wire-splicer. No. 1,129,711; Feb. 23; Gaz. vol. 211; p. 1186.
- Mumford Molding Machine Company. (See Oberg, August E., assignor.)
- Mumford, Rose S., executrix. (See Mumford, Edgar H.)
- Mumm, Edward F., Milwaukee, Wis. Duplicating attachment for calculating-machines. No. 1,157,635; Oct. 19; Gaz. vol. 219; p. 859.
- Mumma, Emanuel S., Rock Hill, Pa. Stove attachment for automobiles. No. 1,140,055; May 18; Gaz. vol. 214; p. 896.
- Mumma, George R., assignor to The C. W. Raymond Company, Dayton, Ohio. Sectional kiln. No. 1,143,549; June 15; Gaz. vol. 215; p. 938.
- Mummery, Clyde W., Riverton, Wash. Oil-burner. No. 1,160,314; Nov. 16; Gaz. vol. 220; p. 754.
- Mummery, Frederick G., et al. (See Buskard, Samuel G., assignor.)
- Mummery, Walter S., Minot, N. D. Pneumatic tire. No. 1,151,604; Aug. 31; Gaz. vol. 217; p. 1365.
- Munch, Emma K., Emporia, Kans. Sanitary stool-slip. No. 1,159,070; Nov. 2; Gaz. vol. 220; p. 227.
- Münch, Gottfried B., Leipzig, assignor to Allvor-Apparate-Gesellschaft mit beschränkter Haftung, Wurzen, Germany. Balancing mechanism for vehicle-windows. No. 1,130,189; Mar. 2; Gaz. vol. 212; p. 121.
- Münch, Gottfried B., Leipzig, assignor to Allvor-Apparate-Gesellschaft mit beschränkter Haftung, Wurzen, Germany. Mechanism for opening and closing sliding windows. No. 1,137,076; Apr. 27; Gaz. vol. 213; p. 1181.
- Münch, Gustav. (See Speckter and Münch.)
- Münch, William. (See Tagner and Münch.)
- Mundlos & Co., H. (See Mundlos, Richard, assignor.)
- Mundlos, Richard, assignor to H. Mundlos & Co., Magdeburg, Germany. Sewing-machine frame. No. 1,144,428; June 29; Gaz. vol. 215; p. 1298.

Alphabetical list of patentees—Continued.

- Mundy, William J., assignor of one-third to J. W. Breslin and one-third to J. J. Breslin, Shenandoah, Pa. Pick, drill, and the like. No. 1,159,326; Nov. 2; Gaz. vol. 220; p. 319.
- Mundy, William W. (See Fisher, Ira S., assignor.)
- Muney, Peter, St. Louis, Mo. Soldering-iron. No. 1,155,433; Oct. 5; Gaz. vol. 219; p. 38.
- Munger, L. R., *et al.* (See De Witt, George, assignor.)
- Munger, S. I., Jr., *et al.* (See De Witt, George, assignor.)
- Munker, Conrad, Washington, D. C. Aeroplane. No. 1,152,432; Sept. 7; Gaz. vol. 218; p. 17.
- Munn, James M., Grand Rapids, Mich. Device for recovering submerged logs. No. 1,165,893; Dec. 28; Gaz. vol. 221; p. 1228.
- Munn, John R., and G. MacLaren, Glasgow, assignors to The British Marine Motor & Launch Company, Limited, Whiteloch, Glasgow, Scotland. Collapsible life-boat and the like. No. 1,147,966; July 27; Gaz. vol. 216; p. 1114.
- Munro, Archibald. (See Sheppard and Munro.)
- Munro, James H., assignor of one-half to J. M. Van Orden, Newark, N. J. Cutting apparatus. No. 1,134,217; Apr. 6; Gaz. vol. 213; p. 49.
- Munro, Will R., Mayville, N. D. Atomizer. No. 1,145,029; July 6; Gaz. vol. 216; p. 19.
- Munroe, Harry A., *et al.* (See Bennett, Edward O., assignor.)
- Munsch, George J., New York, N. Y. Bottle attachment. No. 1,154,535; Sept. 21; Gaz. vol. 218; p. 833.
- Munsell, Harry W., Indianapolis, Ind., assignor to Kellogg Switchboard & Supply Company. Telephone system. No. 1,150,055; Aug. 17; Gaz. vol. 217; p. 724.
- Munsing, George D., assignor to Munsing and Ingersoll, New York, N. Y. Speed-changing mechanism. No. 1,151,897; Aug. 31; Gaz. vol. 217; p. 1466.
- Munsing, George D., assignor to Munsing and Ingersoll, New York, N. Y. Speed-changing mechanism. No. 1,163,842; Dec. 14; Gaz. vol. 221; p. 434.
- Munsing and Ingersoll. (See Munsing, George D., assignor.)
- Munson Brothers Company. (See Munson, Edmund G., assignor.)
- Munson, Edmund G., assignor to Munson Brothers Company, Whitesboro, N. Y. Axially-adjustable ball-bearing. No. 1,141,201; June 1; Gaz. vol. 215; p. 39.
- Munson, Henry O. (See Worthington, Charles W., assignor.)
- Munson, Melvin L., Schenectady, N. Y. Hose-reel. No. 1,165,277; Dec. 21; Gaz. vol. 221; p. 975.
- Munson, Sweney, Fowler, Colo. Beet-harvester. No. 1,145,785; July 6; Gaz. vol. 216; p. 283.
- Munson, Victor G., Whitehall, Mich. Rotary pump. No. 1,128,999; Feb. 16; Gaz. vol. 211; p. 906.
- Muntz, Frank J., Mobile, Ala. Lifting-jack. No. 1,148,396; July 27; Gaz. vol. 216; p. 1268.
- Munzer, Hugo, Paterson, N. J. Damper-regulator. No. 1,148,612; Aug. 3; Gaz. vol. 217; p. 47.
- Munzner, Charles. (See Child and Munzner.)
- Münzner, Max. (See Michalis and Münzner.)
- Münzner, Max, Arlington, N. J., assignor to The Torsion Balance Company, New York, N. Y. Hinged case. No. 1,128,620; Feb. 16; Gaz. vol. 211; p. 773.
- Münzner, Max, Arlington, N. J., assignor to The Torsion Balance Company, New York, N. Y. Weighing-scale. No. 1,141,202; June 1; Gaz. vol. 215; p. 40.
- Muojo, Arturo, Brooklyn, N. Y. Ventilating safety-window. No. 1,152,900; Sept. 7; Gaz. vol. 218; p. 191.
- Murayama, Hashime, New York, N. Y. Transparent model for anatomical study. No. 1,141,480; June 1; Gaz. vol. 215; p. 141.
- Murch, Frank G., Methuen, Mass. Textile fabric. No. 1,139,705; May 18; Gaz. vol. 214; p. 772.
- Murchev, Joseph, Wyandotte, Mich., assignor to H. L. Frost, Hamilton, Ontario, Canada, and S. S. Lenz, New York, N. Y. Magazine lead-pencil. No. 1,124,786; Jan. 12; Gaz. vol. 210; p. 600.
- Murchev Machine and Tool Co. (See Prance, Albert J., assignor.)
- Murdock, Cecile A., *et al.* (See Murdock, James A., assignor.)
- Murdock, George L., San Francisco, Cal. Head-rest for bath-tubs. No. 1,163,945; Dec. 14; Gaz. vol. 221; p. 469.
- Murdock, James A., Los Angeles, Cal., assignor of seven-sixteenths to J. H. Hirst, Seattle, Wash., and nine thirty-seconds to C. A. Murdock, Los Angeles, Cal. Water-purification apparatus. No. 1,159,699; Nov. 9; Gaz. vol. 220; p. 483.
- Murdock, Kelso, Cincinnati, Ohio. Drinking-fountain. No. 1,146,946; July 20; Gaz. vol. 216; p. 730.
- Murdy, Charles C. (See Webb and Murdy.)
- Mureua, Joseph A., New York, N. Y. Cushion device for shoes. No. 1,127,913; Feb. 9; Gaz. vol. 211; p. 479.
- Muri, Wilhelm, Stockton, Cal. Cherry-pitter. No. 1,141,355; June 1; Gaz. vol. 215; p. 95.
- Murie, Adelia *et al.* (See Toney, Joseph, assignor.)
- Murke, Franz, Fort Collins, Colo. Refining raw cane-sugar. No. 1,132,868; Mar. 23; Gaz. vol. 212; p. 1189.
- Murn, Rudolf, Lakewood, Ohio. Combined window lock and stop. No. 1,160,641; Nov. 16; Gaz. vol. 220; p. 872.
- Murnane, Daniel J., Glendale, Mo. Safety means for setting plate-glass. No. 1,138,499; May 4; Gaz. vol. 214; p. 272.
- Murnane, Daniel J., St. Louis, Mo., assignor to Zouri Drawn Metals Company, Chicago, Ill. Window structure. No. 1,159,071; Nov. 2; Gaz. vol. 220; p. 228.
- Muro, Raul D., Habana, Cuba. Bottle. No. 1,146,809; July 20; Gaz. vol. 216; p. 682.
- Murph, Donald H., assignor of one-half to H. E. Hobson, Dallas, Tex. Fan and fixture support. No. 1,141,203; June 1; Gaz. vol. 215; p. 40.
- Murphey, James A., Philadelphia, Pa., and F. S. Thompson, Atlantic City, N. J. Automobile-lock. No. 1,156,615; Oct. 12; Gaz. vol. 219; p. 474.
- Murphy, Albert C., New York, N. Y. Dumping-car. No. 1,165,532; Dec. 28; Gaz. vol. 221; p. 1101.
- Murphy, Charles E., and W. H. Sprague, Chillicothe, Mo. Transmission-gearing. No. 1,159,410; Nov. 9; Gaz. vol. 220; p. 380.
- Murphy, Charles S. (See Loftin and Murphy.)
- Murphy, Clinton C. (See Mathews, Fred, assignor.)
- Murphy, Clinton C. (See Mathews and Chenoweth, assignors.)
- Murphy, Clinton C., Chicago, Ill. Car-roof. No. 1,133,493; Mar. 30; Gaz. vol. 212; p. 1447.
- Murphy, Clinton C., Chicago, Ill. Running-board saddle. No. 1,133,494; Mar. 30; Gaz. vol. 212; p. 1448.
- Murphy, Clinton C., Chicago, Ill. Metal car-roof. No. 1,140,842; May 25; Gaz. vol. 214; p. 1204.
- Murphy, Clinton C., Chicago, Ill., assignor to P. H. Murphy Company, Parnassus, Pa. Running-board saddle. No. 1,145,207; July 6; Gaz. vol. 216; p. 81.
- Murphy, Daniel J., St. Paul, Minn. Apparatus for sifting ashes. No. 1,128,712; Feb. 16; Gaz. vol. 211; p. 804.
- Murphy, Daniel W., Los Angeles, Cal., assignor of one-half to F. B. Connelly, Billings, Mont. Excavator-shield. No. 1,149,937; Aug. 10; Gaz. vol. 217; p. 623.
- Murphy, Dwight, Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,161,508; Nov. 23; Gaz. vol. 220; p. 1225.
- Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Circuit-controller. No. 1,154,266; Sept. 21; Gaz. vol. 218; p. 741.
- Murphy, Ernest B., *et al.* (See Lockwood, Charles F., assignor.)
- Murphy, Frank V., Bay City, Mich. Shoe-shining machine. No. 1,128,894; Feb. 16; Gaz. vol. 211; p. 869.
- Murphy, G. M. P., *et al.*, receivers. (See Meyer, Robert, assignor.) (Reissue.)
- Murphy, George C., Louisville, Ky. Electrical signal. No. 1,133,307; Mar. 30; Gaz. vol. 212; p. 1381.
- Murphy, George H., Redding, Cal. Electric needle. No. 1,127,665; Feb. 9; Gaz. vol. 211; p. 388.
- Murphy, George H., Balls Ferry, Cal. Electrical scroll-saw. No. 1,155,835; Oct. 5; Gaz. vol. 219; p. 179.
- Murphy, George J., Baradero, Argentina. Spring-wheel. No. 1,134,218; Apr. 6; Gaz. vol. 213; p. 49.
- Murphy, George J., Buenos Aires, Argentina. Spring-wheel. No. 1,147,534; July 20; Gaz. vol. 216; p. 935.
- Murphy, George M. (See Johnson and Murphy.)
- Murphy, George W., Dixon, Tex. Wire-fence tool. No. 1,131,539; Mar. 9; Gaz. vol. 212; p. 622.
- Murphy, George W., Indianapolis, Ind. Sole and heel for boots and shoes. No. 1,146,088; July 13; Gaz. vol. 216; p. 410.
- Murphy, Howard H., Boston, Mass. Internal-combustion engine. (Reissue.) No. 13,905; Apr. 27; Gaz. vol. 213; p. 1409.
- Murphy Iron Works. (See Stewart, Burt C., assignor.)
- Murphy, James A., *et al.* (See Courlaender, Bernard, Jr., assignor.)
- Murphy, James L., New York, and J. Richmond, Yonkers, N. Y. Means for fixing anchorages in concrete walls. No. 1,157,895; Oct. 26; Gaz. vol. 219; p. 1017.
- Murphy, James E., *et al.* (See Haddigan, Michael J., assignor.)
- Murphy, John E., Winnipeg, Manitoba, Canada. Mechanical stoker. No. 1,140,761; May 25; Gaz. vol. 214; p. 1175.
- Murphy, John F. (See Flora and Murphy.)
- Murphy, John J., San Francisco, Cal. Ice-making machine. No. 1,160,945; Nov. 16; Gaz. vol. 220; p. 979.
- Murphy, John J., assignor of one-half to R. C. Plaut, Norwich, Conn. Police-nippers. No. 1,147,423; July 20; Gaz. vol. 216; p. 898.
- Murphy, John M., Tellico Plains, Tenn. Saw-setting tool. No. 1,164,381; Dec. 14; Gaz. vol. 221; p. 621.
- Murphy, John M., Habana, Cuba, assignor to W. Wood, Philadelphia, Pa. Centrifugal separator. No. 1,146,438; July 13; Gaz. vol. 216; p. 533.
- Murphy, John P., Charleston, S. C. Slide feed-valve. No. 1,166,242; Dec. 28; Gaz. vol. 221; p. 1356.
- Murphy, John R., Carnegie, Okla. Wheel-puller. No. 1,146,897; July 20; Gaz. vol. 216; p. 711.
- Murphy, Morrell. (See Peters, Marcus W., assignor.)
- Murphy, Morton, Janesville, Wis. Fireless cook-stove. No. 1,164,845; Dec. 21; Gaz. vol. 221; p. 824.
- Murphy, Moses E., Talmo, Ga. Cotton-gin. No. 1,163,946; Dec. 14; Gaz. vol. 221; p. 469.

Alphabetical list of patentees—Continued.

- Murphy, Oscar B., assignor of one-fourth to W. W. Maples and one-fourth to S. L. Locker, Duke, Okla. Seed-planting mechanism. No. 1,147,039; July 20; Gaz. vol. 216; p. 763.
- Murphy, Patrick H. (See Pilkington, John T., assignor.)
- Murphy, Patrick J. (See Conlon, Murphy, and Tighe.)
- Murphy, Paul J., Minneapolis, Minn. Automobile-body. No. 1,150,954; Aug. 24; Gaz. vol. 217; p. 1098.
- Murphy, Philip. (See Husted, Sorensen, and Murphy.)
- Murphy, Purl, St. Clair, Mo. Headlight control. No. 1,147,535; July 20; Gaz. vol. 216; p. 936.
- Murphy, Thomas F., Utica, N. Y. Show-case. No. 1,159,859; Nov. 9; Gaz. vol. 220; p. 543.
- Murphy, Thomas J., Rochester, N. Y. Time-switch. No. 1,152,433; Sept. 7; Gaz. vol. 218; p. 18.
- Murphy, Thomas J., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Magnetic testing device. No. 1,129,584; Feb. 23; Gaz. vol. 211; p. 1147.
- Murphy, Thomas W., Pierpont, S. D. Needle. No. 1,131,155; Mar. 9; Gaz. vol. 212; p. 489.
- Murphy, Walter P. (See Conwell, Samuel H., assignor.)
- Murphy, Walter P. (See Downing, Ira S., assignor.)
- Murphy, Walter P. (See Gilpin, Garth G., assignor.)
- Murphy, Walter P. (See Jones, Edwin, assignor.)
- Murphy, Walter P. (See Knox, William J., assignor.)
- Murphy, Walter P. (See Small and Schoenky, assignors.)
- Murphy, Walter P. (See Strid, Sven J., assignor.)
- Murphy, Walter P. (See Summers, Edgar W., assignor.)
- Murphy, Walter P., Chicago, Ill. Release-rigging. No. 1,132,024; Mar. 16; Gaz. vol. 212; p. 831.
- Murphy, Walter P., Chicago, Ill. Metal car-roof. No. 1,133,495; Mar. 30; Gaz. vol. 212; p. 1448.
- Murphy, Walter P., Chicago, Ill. Metal car-roof. No. 1,139,363; May 11; Gaz. vol. 214; p. 614.
- Murphy, Walter P., Chicago, Ill. Car-door. No. 1,151,375; Aug. 24; Gaz. vol. 217; p. 1238.
- Murphy, Walter P., Chicago, Ill. Release-rigging for car-couplings. No. 1,151,376; Aug. 24; Gaz. vol. 217; p. 1238.
- Murphy, Walter P., Chicago, Ill. Car end brace. No. 1,152,201; Aug. 31; Gaz. vol. 217; p. 1570.
- Murphy, Walter P., Chicago, Ill. Car end brace. No. 1,152,202; Aug. 31; Gaz. vol. 217; p. 1570.
- Murphy, Walter P., Chicago, Ill. Metal car-roof. No. 1,156,616; Oct. 12; Gaz. vol. 219; p. 475.
- Murphy, Walter P., Chicago, Ill. Car-roof. No. 1,156,617; Oct. 12; Gaz. vol. 219; p. 476.
- Murphy, Walter P., Chicago, Ill. Metal car-door. No. 1,163,028; Dec. 7; Gaz. vol. 221; p. 103.
- Murphy, William, Eden Valley, Minn. Manure-loading apparatus. No. 1,142,197; June 8; Gaz. vol. 215; p. 427.
- Murphy, William M. and J. J. Redner; said Murphy assignor, by mesne assignments, to The U. S. Manufacturers' Distributing Company, Inc., New York, N. Y. Insect-trap. No. 1,135,710; Apr. 13; Gaz. vol. 213; p. 620.
- Murr, John A., Cohutta, Ga. Feed-rack. No. 1,137,653; Apr. 27; Gaz. vol. 213; p. 1384.
- Murray, Albert L., Auburn, Ind. Reinforcement for pneumatic tires. No. 1,130,424; Mar. 2; Gaz. vol. 212; p. 203.
- Murray, Aristides R., Cincinnati, Ohio. Gear-cutting machine. No. 1,138,005; May 4; Gaz. vol. 214; p. 99.
- Murray, Aristides R., assignor to The Cincinnati Gear Cutting Machine Company, Cincinnati, Ohio. Cutter-grinding machine. No. 1,148,524; Aug. 3; Gaz. vol. 217; p. 14.
- Murray, Aristides R., assignor to The Cincinnati Gear Cutting Machine Company, Cincinnati, Ohio. Cutter-grinding machine. No. 1,148,525; Aug. 3; Gaz. vol. 217; p. 14.
- Murray, Charles F., Evanston, assignor to The Fowler Car Company, Chicago, Ill. Stake-pocket. No. 1,124,787; Jan. 12; Gaz. vol. 210; p. 600.
- Murray, Charles F., Evanston, assignor to The Fowler Car Company, Chicago, Ill. Carline. No. 1,155,365; Oct. 5; Gaz. vol. 219; p. 14.
- Murray, Charles F., Evanston, assignor to Keyoke Railway Equipment Company, Chicago, Ill. Yoke-fastener. No. 1,161,876; Nov. 30; Gaz. vol. 220; p. 1397.
- Murray, Charles F., Evanston, assignor to Keyoke Railway Equipment Company, Chicago, Ill. Yoke-fastener. No. 1,161,952; Nov. 30; Gaz. vol. 220; p. 1426.
- Murray Company. (See Henry, Nelson B., assignor.)
- Murray, Dennis T., et al. (See Jeffreys and Creahen, assignors.)
- Murray, Dudley E., Roanoke, Ind. Gas-distributing mechanism. No. 1,140,278; May 18; Gaz. vol. 214; p. 972.
- Murray, Esther, Bayswater, London, England. Wheel of motor-cycles and other vehicles. No. 1,142,606; June 8; Gaz. vol. 215; p. 570.
- Murray, George C., Chicago, Ill., assignor to Keyoke Railway Equipment Company. Draw-bar yoke. No. 1,153,242; Sept. 14; Gaz. vol. 218; p. 348.
- Murray, George M., West Duluth, Minn. Chimney-hood. No. 1,154,044; Sept. 21; Gaz. vol. 218; p. 666.
- Murray, George R., Cleveland, Ohio. Automatic work-register. No. 1,132,110; Mar. 16; Gaz. vol. 212; p. 861.
- Murray, George R., Cleveland, Ohio. Stone grinding and polishing machine. No. 1,138,683; May 11; Gaz. vol. 214; p. 375.
- Murray, Harry S., Republic, Pa. Device for watering coke-ovens. No. 1,129,000; Feb. 16; Gaz. vol. 211; p. 907.
- Murray Iron Works Company. (See Schroder, Charles H., assignor.)
- Murray and Jacobs Manufacturing Company. (See Jacobs, Charles B., assignor.)
- Murray, James F. (See Ball and Floyd, assignors.)
- Murray, James J. (See Grohowsky, John F., assignor.)
- Murray, John J., administrator. (See Power, Walter L.)
- Murray, John L., et al. (See O'Brien, Dennis J., assignor.)
- Murray, Joshua, Pender, Nebr. Roofing-shingle. No. 1,151,812; Aug. 31; Gaz. vol. 217; p. 1437.
- Murray, Malcolm A., Mountain Iron, Minn. Boat-propelling mechanism. No. 1,150,292; Aug. 17; Gaz. vol. 217; p. 811.
- Murray, Michael. (See Macfarren, Walter W., assignor.)
- Murray, Richard, New York, N. Y. Shoe-tree. No. 1,163,947; Dec. 14; Gaz. vol. 221; p. 470.
- Murray, Roy, Agenda, Kans. Time-controlled switch. No. 1,161,068; Nov. 23; Gaz. vol. 220; p. 1066.
- Murray, Russell, Lovelady, Tex. Cotton-tramper. No. 1,163,843; Dec. 14; Gaz. vol. 221; p. 434.
- Murray, Thomas B., Camden, N. J. Depth-sounding apparatus. No. 1,126,554; Jan. 26; Gaz. vol. 210; p. 1302.
- Murray, Thomas E. (See Murray, Thomas E., Jr., assignor.)
- Murray, Thomas E. (See Torchio and Woodrow, assignors.)
- Murray, Thomas E. (See Woodrow, Harry R., assignor.)
- Murray, Thomas E., New York, N. Y. Protective-casing for line-conductors. No. 1,132,671; Mar. 23; Gaz. vol. 212; p. 1116.
- Murray, Thomas E., New York, N. Y. Junction-box. No. 1,132,672; Mar. 23; Gaz. vol. 212; p. 1116.
- Murray, Thomas E., New York, N. Y. Junction-box. No. 1,132,673; Mar. 23; Gaz. vol. 212; p. 1116.
- Murray, Thomas E., New York, N. Y. Electric fuse. No. 1,132,674; Mar. 23; Gaz. vol. 212; p. 1117.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,132,675; Mar. 23; Gaz. vol. 212; p. 1117.
- Murray, Thomas E., New York, N. Y. Protective switch-box. No. 1,135,130; Apr. 13; Gaz. vol. 213; p. 418.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,139,894; May 18; Gaz. vol. 214; p. 838.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,139,895; May 18; Gaz. vol. 214; p. 838.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,139,896; May 18; Gaz. vol. 214; p. 838.
- Murray, Thomas E., New York, N. Y. Outlet-box for protective casings for line conductors. No. 1,142,835; June 15; Gaz. vol. 215; p. 688.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,142,836; June 15; Gaz. vol. 215; p. 688.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,149,593; Aug. 10; Gaz. vol. 217; p. 496.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,150,293; Aug. 17; Gaz. vol. 217; p. 812.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,150,294; Aug. 17; Gaz. vol. 217; p. 812.
- Murray, Thomas E., New York, N. Y. Machine for washing dishes. No. 1,156,424; Oct. 12; Gaz. vol. 219; p. 408.
- Murray, Thomas E., New York, N. Y. Lining for tanks. No. 1,156,425; Oct. 12; Gaz. vol. 219; p. 408.
- Murray, Thomas E., New York, N. Y. Apparatus for electric welding. No. 1,156,426; Oct. 12; Gaz. vol. 219; p. 409.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel. No. 1,156,427; Oct. 12; Gaz. vol. 219; p. 409.
- Murray, Thomas E., New York, N. Y. Switch-box. No. 1,158,534; Nov. 2; Gaz. vol. 220; p. 44.
- Murray, Thomas E., New York, N. Y. Cut-out switch. No. 1,158,535; Nov. 2; Gaz. vol. 220; p. 45.
- Murray, Thomas E., New York, N. Y. Insulating pipe-coupling. No. 1,165,114; Dec. 21; Gaz. vol. 221; p. 919.
- Murray, Thomas E., and E. B. Ricketts, New York, N. Y. Neutralizing corrosive fumes in gases. No. 1,132,679; Mar. 23; Gaz. vol. 212; p. 1118.
- Murray, Thomas E., and E. B. Ricketts, New York, N. Y. Apparatus for neutralizing corrosive fumes in gases. No. 1,139,053; May 11; Gaz. vol. 214; p. 507.
- Murray, Thomas E., and A. V. A. McHarg, New York, N. Y.; said McHarg assignor to said Murray. Multiduct. No. 1,132,676; Mar. 23; Gaz. vol. 212; p. 1117.
- Murray, Thomas E., and V. A. McHarg, New York, N. Y.; said McHarg assignor to said Murray. Multiduct. No. 1,149,592; Aug. 10; Gaz. vol. 217; p. 496.
- Murray, Thomas E., and C. B. Grady, New York, N. Y.; said Grady assignor to said Murray. Device for trapping particles in suspension in gas-currents. No. 1,132,677; Mar. 23; Gaz. vol. 212; p. 1117.
- Murray, Thomas E., and C. B. Grady, New York, N. Y.; said Grady assignor to said Murray. Apparatus for trapping particles in suspension in gas-currents. No. 1,132,678; Mar. 23; Gaz. vol. 212; p. 1118.

- Murray, Thomas E., and G. K. Jessup, New York, N. Y.; said Jessup assignor to said Murray. Glow-lamp fixture. No. 1,135,541; Apr. 13; Gaz. vol. 213; p. 559.
- Murray, Thomas E., and G. K. Jessup, New York, N. Y.; said Jessup assignor to said Murray. Seal-fastening. No. 1,139,052; May 11; Gaz. vol. 214; p. 507.
- Murray, Thomas E., Jr., Brooklyn, assignor to T. E. Murray, New York, N. Y. Electric fuse. No. 1,165,113; Dec. 21; Gaz. vol. 221; p. 918.
- Murray, Timothy J., White Plains, N. Y. Spectacles. No. 1,145,786; July 6; Gaz. vol. 216; p. 284.
- Murray, William P. J., Philadelphia, Pa. Paper-clip. No. 1,160,190; Nov. 16; Gaz. vol. 220; p. 712.
- Murray, William W., and J. F. Dillon, Dearing, W. Va. Electrically-operated mine-door. No. 1,145,787; July 6; Gaz. vol. 216; p. 284.
- Murrey, Ed, University Place, assignor to N. White and F. L. Turner, Lincoln, Nebr. Grab-fork. No. 1,156,247; Oct. 12; Gaz. vol. 219; p. 344.
- Murrey, Jasper P., Cleveland, Ohio. Resilient tread for vehicle-wheels. No. 1,156,620; Oct. 12; Gaz. vol. 219; p. 476.
- Murrey, Joseph O. (See Danes, Charles, assignor.)
- Murrill, Paul I., New York, N. Y., assignor to Goodyear's Metallic Rubber Shoe Company. Vulcanizing rubber. No. 1,159,327; Nov. 2; Gaz. vol. 220; p. 319.
- Murrill, Paul I., New York, N. Y., assignor to Revere Rubber Company. Apparatus for producing vulcanized articles. No. 1,161,951; Nov. 30; Gaz. vol. 220; p. 1425.
- Murrin, John. (See Brewster, Elmer J., assignor.)
- Mursch, William H., assignor to The Union Switch & Signal Company, Swissvale, Pa. Clutch. No. 1,134,283; Apr. 6; Gaz. vol. 213; p. 73.
- Murset, Jacob, Brooklyn, N. Y. Watchcase construction. No. 1,152,537; Sept. 7; Gaz. vol. 218; p. 59.
- Murtera, Ugo, assignor to Kabo Corset Co., Chicago, Ill. Stay-grinder. No. 1,135,711; Apr. 13; Gaz. vol. 213; p. 620.
- Muscarella, Antonio, New York, N. Y. Combination lock key. No. 1,148,526; Aug. 3; Gaz. vol. 217; p. 15.
- Muscarella, Antonio, New York, N. Y. Combination lock key. No. 1,161,151; Nov. 23; Gaz. vol. 220; p. 1096.
- Musgrove, Clyde, El Reno, Okla. Calculator. No. 1,127,492; Feb. 9; Gaz. vol. 211; p. 332.
- Musher, Nathan, Washington, D. C. Soldering-machine. No. 1,131,726; Mar. 16; Gaz. vol. 212; p. 722.
- Musher, Nathan, Washington, D. C. Package-filling machine. No. 1,131,727; Mar. 16; Gaz. vol. 212; p. 722.
- Muskegon Boiler Works. (See Fitzgerald, Edward E., assignor.)
- Muspratt, Frederic J., St. Helier, Island of Jersey. Card-table. No. 1,136,255; Apr. 20; Gaz. vol. 213; p. 851.
- Mussell, Jacob, Caldwell, Idaho. Neck-yoke. No. 1,127,800; Feb. 9; Gaz. vol. 211; p. 440.
- Musselman, Alvin J., assignor to Cycle Mfg. & Supply Company, Chicago, Ill. Luggage-carrier. No. 1,154,197; Sept. 21; Gaz. vol. 218; p. 716.
- Musselman, John G. (See Musselman, William H. and J. G.)
- Musselman, William H. and J. G., Chili, Ind. Lock. No. 1,164,743; Dec. 21; Gaz. vol. 221; p. 787.
- Musser, Ernest C., and T. Dilger, Bluefield, W. Va. Hand-reamer. No. 1,126,649; Jan. 26; Gaz. vol. 210; p. 1337.
- Musser, Fory L. (See Moore and Musser.)
- Musser, Jacob, administrator. (See Musser, John D.)
- Musser, John D., deceased, Easton, Ohio; J. Musser, administrator. Hay-loader. No. 1,158,536; Nov. 2; Gaz. vol. 220; p. 45.
- Musser, John L., Lancaster, Pa. Treating clay. No. 1,147,114; July 20; Gaz. vol. 216; p. 788.
- Mustee, Joseph A. and L. F., Cleveland, Ohio. Vehicle spring-lubricator. No. 1,159,982; Nov. 9; Gaz. vol. 220; p. 587.
- Mustee, Lawrence F. (See Mustee, Joseph A. and L. F.)
- Mustin, Henry C., U. S. Navy. Attachment for telescopes. No. 1,153,945; Sept. 21; Gaz. vol. 218; p. 631.
- Mustin, Henry C., U. S. Navy. Water-brake attachment for hydroaeroplanes. No. 1,160,525; Nov. 16; Gaz. vol. 220; p. 828.
- Mustonen, Matts J., Newberry, Mich. Flying-machine. No. 1,130,623; Mar. 2; Gaz. vol. 212; p. 273.
- Muth, Augustus W., Sparks, Ga. Mail delivering and catching device. No. 1,153,102; Sept. 7; Gaz. vol. 218; p. 261.
- Muther, Henry L., Minneapolis, Minn. Sash-fastener. No. 1,133,308; Mar. 30; Gaz. vol. 212; p. 1382.
- Muther, Lorenz. (See Grady, Stephen G., assignor.)
- Muther, Lorenz. (See Lautenschlager, William F., assignor.)
- Mutti, Antoine, Cobham, England. Motor and other vehicle. No. 1,165,701; Dec. 28; Gaz. vol. 221; p. 1162.
- Mutton, John, Cleveland, Ohio, assignor to Otis Elevator Company, Jersey City, N. J. Automatic mechanism for locking and releasing elevator-gates. No. 1,162,799; Dec. 7; Gaz. vol. 221; p. 23.
- Muzzy, William H., Dayton, Ohio. Illuminating and heating device. No. 1,132,961; Mar. 23; Gaz. vol. 212; p. 1223.
- Muzzy, William H., New York, N. Y. Motor. No. 1,161,005; Nov. 16; Gaz. vol. 220; p. 1000.
- Muzzy, William H., Dayton, Ohio. Motor-vehicle. No. 1,161,006; Nov. 16; Gaz. vol. 220; p. 1000.
- Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,140,476; May 25; Gaz. vol. 214; p. 1079.
- Muzzy, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Validating stamping system. No. 1,149,395; Aug. 10; Gaz. vol. 217; p. 427.
- Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,153,330; Sept. 14; Gaz. vol. 218; p. 379.
- Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,158,537; Nov. 2; Gaz. vol. 220; p. 46.
- Muzzy, William H., Dayton, Ohio, assignor to The Olds Motor Works, Lansing, Mich. Motor-vehicle. No. 1,145,208; July 6; Gaz. vol. 216; p. 81.
- Muzzy, William H., and F. L. Fuller, assignors to The National Cash Register Company, Dayton, Ohio. Attachment for cash-registers. No. 1,161,069; Nov. 23; Gaz. vol. 220; p. 1067.
- Myatt, John W., assignor to Ledgers Limited, Tipton, England. Loose-leaf book. No. 1,158,262; Oct. 26; Gaz. vol. 219; p. 1144.
- Myatt, William J., Birmingham, England. Safety-razor. No. 1,139,056; May 11; Gaz. vol. 214; p. 509.
- Myers, Albert E., West Alexander, Pa. Nut-lock. No. 1,139,897; May 18; Gaz. vol. 214; p. 839.
- Myers, Alexander, Revere, assignor to International Comfort Chair Co., Boston Mass. Chair-awning. No. 1,155,366; Oct. 5; Gaz. vol. 219; p. 15.
- Myers and Brother, F. E. (See Myers, Philip A., assignor.)
- Myers, Charles A. (See Burnham and Myers.)
- Myers, Charles E., Lebanon, Ill., assignor by mesne assignments, to Simplex Shoe Machinery Company, St. Louis, Mo. Sewing-machine. No. 1,131,853; Mar. 16; Gaz. vol. 212; p. 769.
- Myers, Charles E., Lebanon, Ill., assignor, by mesne assignments, to Simplex Shoe Machinery Company, St. Louis, Mo. Sewing-machine needle. No. 1,131,854; Mar. 16; Gaz. vol. 212; p. 770.
- Myers, Charles H., Buffalo, N. Y. Transparent cover. No. 1,126,257; Jan. 26; Gaz. vol. 210; p. 1195.
- Myers, Charles H., Buffalo, N. Y. Transparent cover. No. 1,126,258; Jan. 26; Gaz. vol. 210; p. 1195.
- Myers, Charles O., and H. T. Maring, Gettysburg, Pa. Nut-lock. No. 1,142,607; June 8; Gaz. vol. 215; p. 570.
- Myers, Charles O., and H. T. Maring, Gettysburg, Pa. Nut-lock. No. 1,165,800; Dec. 28; Gaz. vol. 221; p. 1196.
- Myers, Curtis C., Cincinnati, Ohio. Incinerator. No. 1,160,437; Nov. 16; Gaz. vol. 220; p. 796.
- Myers, Curtis M., Glenfield, and J. A. Terhorst, Pittsburgh, Pa. Pencil-calendar. No. 1,137,273; Apr. 27; Gaz. vol. 213; p. 1253.
- Myers, Edward D., Shelby, Mich. Artificial bait. No. 1,140,279; May 18; Gaz. vol. 214; p. 972.
- Myers, Edwin D. (See Binns, James R., assignor.)
- Myers, Eugene V., East Orange, N. J. Shock-absorber. No. 1,160,976; Nov. 16; Gaz. vol. 220; p. 990.
- Myers, Fred L., Dewitt, assignor to T. Foley, Charlotte, Iowa. Telephone-switch. No. 1,152,336; Aug. 31; Gaz. vol. 217; p. 1617.
- Myers, George B., Camden, N. J. Buffer-tube. No. 1,163,103; Dec. 7; Gaz. vol. 221; p. 128.
- Myers, George E. (See Kerscher and Forster, assignors.)
- Myers, George S., Electra, Tex. Drill-collar. No. 1,132,375; Mar. 16; Gaz. vol. 212; p. 959.
- Myers, George S., Electra, Tex. Gripping device for well-boring apparatus. No. 1,143,430; June 15; Gaz. vol. 215; p. 900.
- Myers, H. M. (See Eaken, Dwight A., assignor.)
- Myers, Henry, Philadelphia, Pa. Trunk-edge protector. No. 1,134,219; Apr. 6; Gaz. vol. 213; p. 50.
- Myers, Herbert G., Chicago, Ill., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Suspension for axle-lighting dynamos. No. 1,142,267; June 8; Gaz. vol. 215; p. 452.
- Myers, Hubert A., Toledo, Ohio. Escapement. No. 1,138,775; May 11; Gaz. vol. 214; p. 408.
- Myers, Hubert A., assignor of one-half to A. S. Hickok, Toledo, Ohio. Starter-control for explosive-engines. No. 1,132,602; Mar. 23; Gaz. vol. 212; p. 1090.
- Myers, Hubert A., assignor of one-half to A. S. Hickok, Toledo, Ohio. Automatic valve-adjuster for internal-combustion engines. No. 1,134,695; Apr. 6; Gaz. vol. 213; p. 224.
- Myers, Hubert A., assignor of one-half to A. A. Atwood, Toledo, Ohio. Speed-control mechanism. No. 1,148,527; Aug. 3; Gaz. vol. 217; p. 15.
- Myers, Hubert A., assignor of one-half to A. A. Atwood, Toledo, Ohio. Gear-controller mechanism. No. 1,148,528; Aug. 3; Gaz. vol. 217; p. 16.
- Myers, I. L. (See Arnott, Robert F., assignor.)
- Myers, Ida B., Chicago Junction, Ohio. Hook for cup and saucer racks. No. 1,147,810; July 27; Gaz. vol. 216; p. 1058.
- Myers, James J., Thurles, Ireland. Variable-speed gearing. No. 1,132,603; Mar. 23; Gaz. vol. 212; p. 1090.

Alphabetical list of patentees—Continued.

- Myers, John F., Millersburg, Ohio. Swine-feeder. No. 1,156,428; Oct. 12; Gaz. vol. 219; p. 409.
- Myers, Lewis C. (See Hess and Myers.)
- Myers, Lewis C., assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Envelop and card feed device for type-writing machines. No. 1,136,034; Apr. 20; Gaz. vol. 213; p. 774.
- Myers, Lewis C., Brooklyn, assignor, by mesne assignments, to Royal Typewriter Company, Inc., New York, N. Y. Carriage-feeding spring-barrel for type-writing machines. No. 1,148,251; July 27; Gaz. vol. 216; p. 1216.
- Myers, Lewis C., Brooklyn, assignor to Royal Typewriter Company, Inc., New York, N. Y. Ribbon-feed shift for type-writing machines. No. 1,161,509; Nov. 23; Gaz. vol. 220; p. 1225.
- Myers, Mahlon C., assignor to B. T. Leggett, E. H. Neuman, and W. E. Mino, Brantford, Ontario, Canada, trustees. Spring-wheel. No. 1,162,706; Nov. 30; Gaz. vol. 220; p. 1681.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pump-jack. No. 1,146,729; July 13; Gaz. vol. 216; p. 633.
- Myers, Samuel A., Boston, Mass. Collar for garments. No. 1,156,090; Oct. 12; Gaz. vol. 219; p. 293.
- Myers, Solomon B., Plainfield, N. J., and H. L. Rogers, Jamaica, N. Y. Loose-roll tile roof. No. 1,144,332; June 22; Gaz. vol. 215; p. 1237.
- Myers, Stella E., Kansas City, Kans. Calculating-machine. No. 1,161,065; Nov. 23; Gaz. vol. 220; p. 1065.
- Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Ornamental-stitch sewing-machine. No. 1,135,959; Apr. 13; Gaz. vol. 213; p. 707.
- Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,137,654; Apr. 27; Gaz. vol. 213; p. 1385.
- Myers, William. (See Card and Myers.)
- Myers, William. (See Goodsell, James A., assignor.)
- Myers, William M., St. Joseph, Mo. Safety-valve mechanism for pneumatic tires. No. 1,136,901; Apr. 20; Gaz. vol. 213; p. 1081.
- Mygatt, Otis A., assignor to Holophane Glass Company, New York, N. Y. Glass structure. No. 1,149,208; Aug. 10; Gaz. vol. 217; p. 359.
- Mygatt, Otis A., assignor to Holophane Glass Company, New York, N. Y. Glass structure. No. 1,157,953; Oct. 26; Gaz. vol. 219; p. 1036.
- Mygatt, Otis A., Paris, France, assignor to Holophane Glass Company, New York, N. Y. Glass manufacturing. No. 1,155,000; Sept. 28; Gaz. vol. 218; p. 1020.
- Myhre, Arthur E., Tacoma, Wash. Engraver's ring-clamp. No. 1,157,120; Oct. 19; Gaz. vol. 219; p. 682.
- Mylo, Gustav, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Apparatus for checking electrocardiographs, oscillographs, and the like. No. 1,151,118; Aug. 24; Gaz. vol. 217; p. 1152.
- Mynar, Frank J., and C. P. Zimmerman, Baltimore, Md. Shirt. No. 1,127,075; Feb. 2; Gaz. vol. 211; p. 144.
- Myre, Edward Z. (See Brock and Myre.)
- Myrick, George H., assignor, by mesne assignments, to Mineralac Electric Company, Chicago, Ill. Self-winding clock. No. 1,140,477; May 25; Gaz. vol. 214; p. 1079.
- Myrick, George H., assignor to Chicago Electric Meter Company, Chicago, Ill. Variable-rate metering mechanism. No. 1,158,709; Nov. 2; Gaz. vol. 220; p. 104.
- Myrophone Company. (See Miller, Thomas H. R., assignor.)
- Myrtle Desk Company. (See Westmoreland, Crawford T., assignor.)
- Myszkier, Maxymilian J., Buffalo, N. Y. Valve-operating mechanism. No. 1,134,892; Apr. 6; Gaz. vol. 213; p. 290.
- N. J. Rich Company, The. (See Meyers, Solomon, assignor.)
- N. O. Nelson Manufacturing Company. (See Shaw, William, assignor.)
- N-W Equipment Co. (See Banks, William C., assignor.)
- N-W Equipment Co. (See Hershey, Herbert C., assignor.)
- N-W Equipment Co. Inc. (See Banghart, Charles S., assignor.)
- Naamlooze Vennootschap Algemeene Uitvinding Exploitatie Maatschappij. (See Adler, Rudolf, assignor.)
- Nabors, Harrison B. (See Rives and Nabors.)
- Nachmann, Albert. (See Young, Horace G., assignor.)
- Nachod, Carl P., Philadelphia, Pa., assignor to Nachod Signal Company, Inc. Electric signaling system. No. 1,158,143; Oct. 26; Gaz. vol. 219; p. 1103.
- Nachod Signal Company. (See Nachod, Carl P., assignor.)
- Nacke, Arnold. (See Belz and Nacke.)
- Nacker, Owen M., assignor of one-half to A. P. Brush, Detroit, Mich. Vehicle-spring. No. 1,126,832; Feb. 2; Gaz. vol. 211; p. 60.
- Nack's Nachfolger, E. (See Godan, Anton, assignor.)
- Nadreau, Alphonse J., Miami, Fla. Bicycle. No. 1,143,850; June 22; Gaz. vol. 215; p. 1067.
- Nafus, Thomas K., La Salle, N. Y. Furnace-grate. No. 1,147,536; July 20; Gaz. vol. 216; p. 936.
- Nafziger, Leo S., assignor to Sheet Metal Specialty Company, Goshen, Ind. Extension and roof for silos. No. 1,124,057; Jan. 5; Gaz. vol. 210; p. 291.
- Nagel, Frederick J., Portville, N. Y. Foldable or collapsible adjustable scaffold. No. 1,133,878; Mar. 30; Gaz. vol. 212; p. 1588.
- Nägele, Hermann, Stuttgart, Germany. Gut and like cleaning machine. No. 1,164,110; Dec. 14; Gaz. vol. 221; p. 527.
- Nagelvoort, Bernard, assignor to Packard Motor Car Company, Detroit, Mich. Abrading machinery. No. 1,149,396; Aug. 10; Gaz. vol. 217; p. 427.
- Nagelvoort, Bernard, assignor to Packard Motor Car Company, Detroit, Mich. Hydraulic brake mechanism. No. 1,149,938; Aug. 10; Gaz. vol. 217; p. 623.
- Nagle, Daisy, administratrix. (See Nagle, George R.)
- Nagle, Erin P., Emeryville, Cal. Cam-shaft drive. No. 1,144,492; June 29; Gaz. vol. 215; p. 1319.
- Nagle, George R., deceased, Superior, Wis., assignor, by mesne assignments, of fifty one-hundredths to T. S. Denton, Kansas City, Mo.; D. Nagle, administratrix. Agitator. No. 1,130,007; Mar. 2; Gaz. vol. 212; p. 58.
- Nagle, Peter J., Rochester, N. Y. Egg carrier or box. No. 1,131,728; Mar. 16; Gaz. vol. 212; p. 722.
- Nagle, Peter J., Rochester, N. Y. Toy bank. No. 1,151,606; Aug. 31; Gaz. vol. 217; p. 1366.
- Nagle Re Blade Knife Company. (See White, Carl H., assignor.)
- Nagle, Thomas J., et al. (See O'Brien, Dennis J., assignor.)
- Nagy, Alexander. (See Hideg, Paul, assignor.)
- Nagy, Alexander. (See Sivak, Nagy, and Banduray.)
- Nagy, Frank, New York, N. Y. Fire screen or guard. No. 1,127,493; Feb. 9; Gaz. vol. 211; p. 332.
- Nahabedian, Carnig, New York, N. Y. Locking-receptacle for milk-bottles. No. 1,127,076; Feb. 2; Gaz. vol. 211; p. 145.
- Nahr, Edwin, Long Beach, Cal. Handle connection. No. 1,142,837; June 15; Gaz. vol. 215; p. 689.
- Nahr, Edwin, Long Beach, Cal. Floor mop. No. 1,159,252; Nov. 2; Gaz. vol. 220; p. 293.
- Nainteau, John B., Pawtucket, R. I. Spindle. No. 1,147,638; July 20; Gaz. vol. 216; p. 973.
- Naismith, Samuel, Chicago, Ill. Furnace-door frame. No. 1,142,773; June 8; Gaz. vol. 215; p. 628.
- Naito, Kwanzaburo, Atlantic City, N. J. Wind-wheel toy. No. 1,155,263; Sept. 28; Gaz. vol. 218; p. 1109.
- Nakamizo, Meiji, San Francisco, Cal. Carriage-top. No. 1,149,162; Aug. 3; Gaz. vol. 217; p. 238.
- Nakamizo, Meiji, San Francisco, Cal. Carriage-top extender. No. 1,149,163; Aug. 3; Gaz. vol. 217; p. 238.
- Nakata, Masahachi, Crystal Springs, Wash. Vibrator. No. 1,144,308; June 22; Gaz. vol. 215; p. 1228.
- Naktin, Todress. (See Karish, Isaac, assignor.)
- Nale, Franklin P., and E. J. Hudnall, Birmingham, Ala. Back for fireplaces. No. 1,154,045; Sept. 21; Gaz. vol. 218; p. 666.
- Nall, Edward, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Tensioning device. No. 1,127,494; Feb. 9; Gaz. vol. 211; p. 333.
- Nall, Edward, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Tensioning device. No. 1,133,309; Mar. 30; Gaz. vol. 212; p. 1382.
- Nall, Edward, and W. C. Tyler, assignors to The Goodyear Tire and Rubber Company, Akron, Ohio. Wheel-hub. No. 1,130,425; Mar. 2; Gaz. vol. 212; p. 203.
- Nally, Matthew, New York, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 1,141,481; June 1; Gaz. vol. 215; p. 142.
- Nalon, Thomas M. (See Iler and Nalon.)
- Nance, William H., assignor of one-half to E. Pember, Ottawa, Kans. Tire. No. 1,127,077; Feb. 2; Gaz. vol. 211; p. 145.
- Nangle, James H., Lynn, Mass. Machine for trimming leather and other fabrics. No. 1,160,946; Nov. 16; Gaz. vol. 220; p. 979.
- Nanni, Menotti, and G. Bertolini, Chicago, Ill.; said Bertolini assignor to said Nanni. Ocean floating safe. No. 1,166,145; Dec. 28; Gaz. vol. 221; p. 1318.
- Napier, R. Bennett, et al. (See Maness, John M., assignor.)
- Nardi, Pasquale, New York, N. Y. Riding-skirt. No. 1,164,382; Dec. 14; Gaz. vol. 221; p. 621.
- Nares, Llewelyn A., Fresno, Cal. Tire-rack for automobiles. No. 1,150,696; Aug. 17; Gaz. vol. 217; p. 951.
- Narragansett Machine Company. (See Armitage, Joseph B., assignor.)
- Narron, John W., Oakland, assignor to Mechanic's Stationary Stage Company, Richmond, Cal. Painter's ladder-support. No. 1,143,058; June 15; Gaz. vol. 215; p. 767.
- Narrow Fabric Company. (See Mittendorff, Max, assignor.)
- Nasca, Domenico, New York, N. Y. Combination Morris chair and couch. No. 1,144,859; June 29; Gaz. vol. 215; p. 1443.
- Nash, Alexander Q., Belton, Tex. Apparatus for building circular walls and means for adjusting the apparatus. No. 1,127,369; Feb. 2; Gaz. vol. 211; p. 244.
- Nash, Arthur D., New York, N. Y. Light unit. No. 1,151,377; Aug. 24; Gaz. vol. 217; p. 1238.

Alphabetical list of patentees—Continued.

- Nash, Carroll L., Big Stone Gap, Va. Window-envelop punch. No. 1,127,914; Feb. 9; Gaz. vol. 211; p. 479.
- Nash, Carroll L., Big Stone Gap, Va. Window-envelop punch. No. 1,127,915; Feb. 9; Gaz. vol. 211; p. 480.
- Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft-arm for railway-cars. No. 1,136,159; Apr. 20; Gaz. vol. 213; p. 817.
- Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Yoke for draft-gear. No. 1,137,348; Apr. 27; Gaz. vol. 213; p. 1281.
- Nash, Charles J., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft-rigging. No. 1,143,303; June 15; Gaz. vol. 215; p. 854.
- Nash, Charles J., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Yoke for draft-gears. No. 1,156,618; Oct. 12; Gaz. vol. 219; p. 476.
- Nash, Charles J., Chicago, Ill., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Draft-gear. No. 1,140,311; May 18; Gaz. vol. 214; p. 983.
- Nash, E. W. (See McCoy and Nash, assignors.)
- Nash, Engelhardt, Silva Mfg. Co. (See Keast, Alfred J., assignor.)
- Nash, John, North Yakima, Wash. Turbine. No. 1,139,562; May 18; Gaz. vol. 214; p. 720.
- Nash, Kenneth. (See McCoy and Nash.)
- Nash, Lewis H., South Norwalk, Conn. Water-meter. No. 1,150,955; Aug. 24; Gaz. vol. 217; p. 1098.
- Nash, Louis P., Orange, N. J. Candlestick. No. 1,138,240; May 4; Gaz. vol. 214; p. 181.
- Nash, Nathan E., Toronto, Ontario, Canada. Heat-regulating apparatus. No. 1,124,788; Jan. 12; Gaz. vol. 210; p. 601.
- Nash, Raymond F., Moritz, S. D. Carpenter's tool. No. 1,123,310; Mar. 30; Gaz. vol. 212; p. 1383.
- Nash, Sidney J. (See Mansbridge and Nash.)
- Nash, Thomas H., St. Pauls Cray, England. Apparatus for refining pulp stuff and the like. No. 1,140,181; May 18; Gaz. vol. 214; p. 940.
- Nash, Thomas J., Lincoln, Nebr. Washing-machine. No. 1,123,785; Jan. 5; Gaz. vol. 210; p. 201.
- Nash, Thomas J., Lincoln, Nebr. High-pressure cooking utensil. No. 1,125,371; Jan. 19; Gaz. vol. 210; p. 845.
- Nash, Thomas J., Lincoln, Nebr. Strainer attachment for cooking utensils. No. 1,130,756; Mar. 9; Gaz. vol. 212; p. 353.
- Nash, Thomas J., Lincoln, Nebr. Electric fluid-heater. No. 1,132,604; Mar. 23; Gaz. vol. 212; p. 1090.
- Nash, Walter. (See Smith, John J., assignor.)
- Nash, Walter D., Atlanta, assignor to Atlanta Utility Works, East Point, Ga. Feed-mixing machine. No. 1,134,220; Apr. 6; Gaz. vol. 213; p. 50.
- Nash, Walter W., Dohy Springs, Okla. Toy. No. 1,159,253; Nov. 2; Gaz. vol. 220; p. 294.
- Nash, William C., Menasha, Wis. Mechanism for water-marking paper while in a damp condition. No. 1,165,438; Dec. 28; Gaz. vol. 221; p. 1069.
- Nashua Card Gummed & Coated Paper Company. (See Horner, Walter S., assignor.)
- Nashua Card, Gummed & Coated Paper Company. (See Mettler, Caspar, assignor.)
- Nashua Machine Company. (See Littlefield, Frank A., assignor.)
- Naslef, Benjamin J., Rochester, N. Y. Folding camera. No. 1,154,046; Sept. 21; Gaz. vol. 218; p. 666.
- Naslef, Benjamin J., Rochester, assignor to Ansco Company, Binghamton, N. Y. Developing apparatus. No. 1,159,700; Nov. 9; Gaz. vol. 220; p. 484.
- Naslef, Benjamin J., and F. F. Dorsey, Rochester, assignors to Ansco Company, Binghamton, N. Y. Roll-film-developing apparatus. No. 1,156,922; Oct. 19; Gaz. vol. 219; p. 612.
- Nasspress-Gesellschaft mit beschränkter Haftung. (See Brune and Horst, assignors.)
- Nasstrom, Gustav H., Seattle, Wash. Calipers. No. 1,146,439; July 13; Gaz. vol. 216; p. 533.
- Natale, Victor, New York, N. Y. Scoop. No. 1,160,748; Nov. 16; Gaz. vol. 220; p. 911.
- Nathan, Albert F., Jr., New York, N. Y. Type-writer key-lock. No. 1,137,417; Apr. 27; Gaz. vol. 213; p. 1306.
- Nathan, Isaac, Oakland, Cal. Combined reinforce and spot for billiard and pool tables. No. 1,143,222; June 15; Gaz. vol. 215; p. 827.
- Nathan Manufacturing Company, The. (See Kassander, Leopold, assignor.)
- Nathan Manufacturing Company, The. (See Kassander and Leverett, assignors.)
- Nathan Manufacturing Company, The. (See Kelsey, Edgar A., assignor.)
- Nathan Manufacturing Company, The. (See Wood, Robert, assignor.)
- Nathans, Thomas A., New York, N. Y. Electric relay or repeater. No. 1,151,707; Aug. 31; Gaz. vol. 217; p. 1399.
- Nation, Enoch A. (See Fraizer and Nation.)
- National-Acme Manufacturing Company, The. (See Rindfleisch, Benjamin F., assignor.)
- National-Acme Manufacturing Company, The. (See Smith, Oscar A., assignor.)
- National-Acme Manufacturing Company, The. (See Smith and Rindfleisch, assignors.)
- National Automatic Fender Company. (See Patterson and Ferguson, assignors.)
- National Automatic Fender Company. (See Williams-Eaton, Harry T., assignor.)
- National Automatic Level and Instrument Company, The. (See Moonen, Arnold J., assignor.)
- National Automatic Tool Company. (See Bockhoff, William F., assignor.)
- National Automatic Tool Company. (See Cleveland, Edgar W., assignor.)
- National Binding Machine Company. (See Adams, Arthur A., assignor.)
- National Binding Machine Company. (See Anable, Frederick S., assignor.)
- National Binding Machine Co. (See Foote, Theodore M., assignor.)
- National Biscuit Company. (See Alfred, Clarence J., assignor.)
- National Blank Book Company. (See Elder, Edward H., assignor.)
- National Blank Book Company. (See Schade, John, Jr., assignor.)
- National Blank Book Company, trustee. (See Schade, John, Jr., assignor.)
- National Bottle Cap Company. (See Jackson and Schindler, assignors.)
- National Brake & Electric Company. (See Aikman, Burton S., assignor.)
- National Brake & Electric Company. (See Richards, Walter J., assignor.)
- National Brass Company. (See Graf, Raymond I., assignor.)
- National Brass Manufacturing Co. (See Wray, Charles F., assignor.)
- National Brick Company. (See Bultge, Martin F., assignor.)
- National Brush Company. (See Perron, Frank J., assignor.)
- National Car Seal Company. (See Peckham, George C., assignor.)
- National Carbon Co. (See Richmond, Charles T., assignor.)
- National Carbon Company. (See Baldwin, Allen T., assignor.)
- National Carbon Company. (See Brown, John W., assignor.)
- National Carbon Company. (See Clark, Emerson L., assignor.)
- National Carbon Company. (See Clymer, William R., assignor.)
- National Carbon Company. (See Erwin, Raymond W., assignor.)
- National Carbon Company. (See Field, Charles, 3d, assignor.)
- National Carbon Company. (See Foos, Marcus A., assignor.)
- National Carbon Company. (See Hill, Charles W., assignor.)
- National Carbon Company. (See Holmes, Major E., assignor.)
- National Carbon Company. (See Moffett, Marcus H., assignor.)
- National Carbon Company. (See Mott, William R., assignor.)
- National Carbon Company. (See Perris, Ben, assignor.)
- National Carbon Company. (See Shaw, William, assignor.)
- National Carbon Company. (See Smith, Edward C., assignor.)
- National Carbon Company. (See Watzl, Ernst J., assignor.)
- National Cash Register Company. (See Carroll, Thomas, assignor.)
- National Cash Register Company. (See Fassett, Francis K., assignor.)
- National Cash Register Company. (See Leidigh, John J., assignor.)
- National Cash Register Company. (See Skerl, Francesco, assignor.)
- National Cash Register Company. (See Werner, John A., assignor.)
- National Cash Register Company, The. (See Bates and Phillips, assignors.)
- National Cash Register Company, The. (See Carter, Elmer C., assignor.)
- National Cash Register Company, The. (See Chryst, William A., assignor.)
- National Cash Register Company, The. (See Church, Edmund S., assignor.)
- National Cash Register Company, The. (See Cleal, Joseph P., assignor.)
- National Cash Register Company, The. (See Forth, Charles, assignor.)
- National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
- National Cash Register Company, The. (See Gelger, George P., assignor.)
- National Cash Register Company, The. (See Heinitz, Woldemar R., assignor.)
- National Cash Register Company, The. (See Hollingsworth, George W., assignor.)
- National Cash Register Company, The. (See Jacob, Max, assignor.)

Alphabetical list of patentees—Continued.

- National Cash Register Company, The. (See Kettering, Charles F., assignor.)
 National Cash Register Company, The. (See Kettering and Chryst, assignors.)
 National Cash Register Company, The. (See Leidigh, John J., assignor.)
 National Cash Register Company, The. (See Martin, Haakon A., assignor.)
 National Cash Register Company, The. (See Midgley, Thomas, Jr., assignor.)
 National Cash Register Company, The. (See Muzzy, William H., assignor.)
 National Cash Register Company, The. (See Muzzy and Fuller, assignors.)
 National Cash Register Company, The. (See Nelson, Carl L., assignor.)
 National Cash Register Company, The. (See Patterson, John H., assignor.)
 National Cash Register Company, The. (See Von Pein, Edward J., assignor.)
 National Cash Register Company, The. (See Vuillaume and Marbach, assignors.)
 National Chemical Company. (See Barnes, Frank C., assignor.)
 National Chemical Company. (See Matthes, Samuel S., assignor.)
 National Chemical Company. (See Nicholls, Henry J., assignor.)
 National Chemical Company. (See Quinn, Wilbur W., assignor.)
 National Chemical Company. (See Quinn, William J., assignor.)
 National Chemical Company. (See Seltenreich, John J., assignor.)
 National Chemical Company. (See Tyler, Charles A., assignor.)
 National Concrete Machinery Co. (See Rogers, John, assignor.)
 National Coning Machinery Company. (See Caylor and Scott, assignors.)
 National Dump Car Company. (See Hart and Seaberg, assignors.)
 National Dump Car Company. (See Morey, William E., assignor.)
 National Dump Car Company. (See Nelkirk, John O., assignor.)
 National Dump Car Company. (See Otis, Spencer, assignor.)
 National Dump Car Company. (See Seaberg, Frederick, assignor.)
 National Electric Specialty Company, The. (See Chapman, Frank S., assignor.) (Reissue.)
 National Electric Specialty Company, The. (See Greene, John T., assignor.)
 National Electrical Supply Company. (See Johnson, Albert H., assignor.)
 National Electrolytic Company. (See Fuller, George P., assignor.)
 National Enameling and Stamping Company. (See Knapp, George W., assignor.)
 National Enameling & Stamping Company, The. (See Wagandt, Charles L., assignor.)
 National Engineering Corporation, The. (See Wright, Joseph L., assignor.)
 National Envelope Sealing & Stamping Manufacturing Company. (See Allen, Fred R., assignor.)
 National Equipment Company. (See Bausman, Alonzo L., assignor.)
 National Equipment Company. (See Clemens, Charles, assignor.)
 National Factories Incorporated. (See Jones, James E., assignor.)
 National Fence Machine Company. (See Raymond, George A., assignor.)
 National Fibre Box Company. (See Walter, Harrison B., assignor.)
 National Fire Proofing Company. (See Babb, Edwin, assignor.)
 National Fire Proofing Company. (See Naylor, Harry B., assignor.)
 National Forge and Tool Company. (See Wilder, Clinton E., assignor.)
 National Gas Engine Company Limited, The. (See Clerk, Dugald, assignor.)
 National Hydrocarbon Company. (See Dubbs, Jesse A., assignor.)
 National Labeling Machine Co. (See Becker, Fritz, assignor.)
 National Lead Company. (See Tolman, Charles P., assignor.)
 National Lettergraph Company, The. (See Decker, Alonzo G., assignor.)
 National Lock Company. (See Thulander, Konstantine, assignor.)
 National Lock Washer Company, The. (See Horn, John H., assignor.)
 National Lock Washer Company, The. (See Hoyt, Daniel, assignor.)
 National Lock Washer Company, The. (See Loutrel, Cyrus H., assignor.)
 National Malleable Castings Company. (See Bixby, Allan S., assignor.)
 National Malleable Castings Company. (See Schmidt, Ernest H., assignor.)
 National Malleable Castings Company, The. (See Bazeley, Arthur J., assignor.)
 National Malleable Castings Company, The. (See Blackmore, William, assignor.)
 National Malleable Castings Company, The. (See Brooks, Chester K., assignor.)
 National Malleable Castings Company, The. (See Buckius, Albert O., Jr., assignor.)
 National Malleable Castings Company, The. (See Byers, Jacob J., assignor.)
 National Malleable Castings Company, The. (See Coffin, Walter E., assignor.)
 National Malleable Castings Company, The. (See Dietz, Charles, assignor.)
 National Malleable Castings Company, The. (See Hall, Frank B., assignor.)
 National Malleable Castings Company, The. (See Howard, Pliny J., assignor.)
 National Malleable Castings Company, The. (See Krakau, Harry T., assignor.)
 National Malleable Castings Company, The. (See Kranz, William G., assignor.)
 National Malleable Castings Company, The. (See Mausk, Herbert, assignor.)
 National Malleable Castings Company, The. (See Stephenson, David C., assignor.)
 National Malleable Castings Company, The. (See Tower, Clinton A., assignor.)
 National Malleable Castings Company, The. (See Willison, John, assignor.)
 National Metal Edge Box Company. (See Mayall, Lewis A., assignor.)
 National Metal-Fabric Company, The. (See Clark, Norris E., assignor.)
 National Metal Molding Company. (See Abbott and Gilson, assignors.)
 National Metal Molding Company. (See Gilson, Henry R., assignor.)
 National Metal Seal Corporation. (See Chellis, Eugene D., assignor.)
 National Metal Seal Corporation. (See Doldt, John E., assignor.)
 National Metal Weather Strip Company. (See Bricker, Samuel P., assignor.)
 National Metallic Vault Company, The. (See Sherwood, Charles L., assignor.)
 National Meter Company. (See Barnes, Llewellyn T., assignor.)
 National Molding Company. (See Gilson and Fullman, assignors.)
 National Oil-Gas Burner Company, The. (See Smith, Oscar W., assignor.)
 National Oil-Gas Burner Company, The. (See Smith, William O., assignor.)
 National Paper Box Company, The. (See Butler, Silas E., assignor.)
 National Paper Products Co. (See Aicher and Lazar, assignors.)
 National Peat Refining Company, The. (See Bartholomew, Ellis, assignor.)
 National Piano Manufacturing Company. (See Carlson, Karl O., assignor.)
 National Piano Manufacturing Company. (See Ioor, John P., assignor.)
 National Piano Manufacturing Company. (See Green, Clifford H., assignor.)
 National Piano Manufacturing Company. (See Sherman, Edgar B., assignor.)
 National Pneumatic Company. (See Burdett, John B., assignor.)
 National Pneumatic Company. (See Forman, Parls R., assignor.)
 National Pneumatic Company. (See Gottschalk, Albert, assignor.)
 National Pneumatic Company. (See Spencer, George M., assignor.)
 National Purification Company. (See Amos, Richard W., assignor.)
 National Radiator Company. (See Waters, Samuel B., assignor.)
 National Railway Equipment Company, The. (See Caughling, Frank W., assignor.)
 National Rapid Transit Company. (See Valentine, Walter D., assignor.)
 National Regulator Company. (See Larson, John M., assignor.)
 National Safety Appliance Company, The. (See Sedgwick, Hiram G., assignor.)
 National Scale Company. (See Ruckes, Michael, assignor.)
 National Service Selling Company. (See Church, Philetus M., assignor.)
 National Sewing Machine Co. (See Winkel, Christopher, assignor.)
 National Sewing Machine Company. (See Atwood, Clarence B., assignor.)
 National Sewing Machine Company. (See Barton, Edward L., assignor.)
 National Sewing Machine Company. (See Ehrendriech, Frank, assignor.)

Alphabetical list of patentees—Continued.

- National Sewing Machine Company. (See Hohmann, Richard K., assignor.)
 National Sewing Machine Company. (See Smith, Albert D., assignor.)
 National Shawmut Bank, trustee. (See Adams-Randall, Charles, assignor.)
 National Specialty Company. (See Brandt, Theodore J., assignor.)
 National Spring and Wire Company. (See King, Fred B., assignor.)
 National Stamping & Electric Works. (See Bandlow, Henry E., assignor.)
 National Standard Company. (See Larsen, Bertinius, assignor.)
 National-Standard Company. (See Mitchell, Melvin G., assignor.)
 National Steam Pump Company. (See Ruopp, William C., assignor.)
 National Store Specialty Company. (See Pritchard, William C., assignor.)
 National Supply Company, The. (See Stewart, Andrew M., assignor.)
 National Supply Company, The. (See Wright, Clyde S., assignor.) (Reissue.)
 National Sweeper Company. (See Baender, Charles L., assignor.)
 National Tape Company. (See Eggleston, Rufus E., assignor.)
 National Tape Company. (See Sharp, Robert S., assignor.)
 National Thermo Company. (See Bolin and More, assignors.)
 National Time Service & Advertising Co. (See King, Charles H., assignor.)
 National Transit Company. (See Coffman, Joseph P., assignor.)
 National Trust Company Limited. (See Hybinette, Noah V., assignor.)
 National Tube Company. (See Berg, Oscar W., assignor.)
 National Tube Company. (See Duncan, George, assignor.)
 National Tube Company. (See Fell, Charles, assignor.)
 National Tube Company. (See Heggie, David, assignor.)
 National Tube Company. (See Henderson, Frederick E., assignor.)
 National Tube Company. (See Latshaw, Joseph W., assignor.)
 National Tube Company. (See Patterson, Thomas, assignor.)
 National Tube Company. (See Speller, Frank N., assignor.)
 National Tube Company. (See Thomas, John B., assignor.)
 National Tube Company, The. (See Boax, John J., assignor.)
 National Tube Company, The. (See Boyd and Saunders, assignors.)
 National Water Main Cleaning Company. (See Mueller and Buell, assignors.)
 National Wood Distilling Company. (See Chase and Grafflin, assignors.)
 National X-Ray Reflector Company. (See Hotchkiss, Paul M., assignor.)
 Natterer, Joseph, Newark, N. J. Metallic mat. No. 1,153,698; Sept. 14; Gaz. vol. 218; p. 510.
 Nattlinger, John G., Chicago, Ill. Carriage-return mechanism for type-writers. No. 1,140,182; May 18; Gaz. vol. 214; p. 940.
 Nau, John B., New York, N. Y. Ash removing and poking apparatus for gas-producers. No. 1,161,404; Nov. 23; Gaz. vol. 220; p. 1189.
 Naudain, John E., Sparrows Point, Md. Oil-burner for heating. No. 1,124,789; Jan. 12; Gaz. vol. 210; p. 601.
 Naugle, Girard G., York, Pa. Train-stopping apparatus. No. 1,135,910; Apr. 13; Gaz. vol. 213; p. 689.
 Naugle, Ingle R., Amesville, Ohio. Music-leaf turner. No. 1,152,588; Sept. 7; Gaz. vol. 218; p. 59.
 Naulder, John S., Pittsburgh, Pa. Retainer for dental plates. No. 1,133,570; Mar. 30; Gaz. vol. 212; p. 1477.
 Nauman, William H., Philadelphia, Pa. Folding crate. No. 1,141,574; June 1; Gaz. vol. 215; p. 174.
 Naumann, Friedrich W., Bielefeld, Germany. Register. No. 1,164,663; Dec. 21; Gaz. vol. 221; p. 760.
 Naumann, Hermann G. R., Uebergen, Nijmegen, assignor to Ant. Jurgens Vereenigde Fabrieken, Oss, Netherlands. Apparatus for cooling hot or molten fats and fatty emulsions and the like. No. 1,163,439; Dec. 7; Gaz. vol. 221; p. 247.
 Naumann, Paul, Dresden, Germany, assignor to Otto & Schlosser, Meissen, Germany. Rail-fastening. No. 1,132,962; Mar. 23; Gaz. vol. 212; p. 1223.
 Naumburg, Robert E., New York, N. Y. Mechanical movement. No. 1,154,198; Sept. 21; Gaz. vol. 218; p. 717.
 Naus, Theodore, assignor of forty-nine one-hundredths to J. F. Demerath, Milwaukee, Wis. Tire-rim. No. 1,126,259; Jan. 26; Gaz. vol. 210; p. 1196.
 Nauts, Frank A., assignor to Gendron Wheel Company, Toledo, Ohio. Perambulator. No. 1,158,710; Nov. 2; Gaz. vol. 220; p. 104.
 Naylor, Carl G. (See Robertson and Naylor.)
 Naylor, George H., assignor to F. R. Parker, Trenton, N. J. Collapsible core. No. 1,133,445; Mar. 30; Gaz. vol. 212; p. 1431.
 Naylor, Harry B., assignor to National Fire Proofing Company, Pittsburgh, Pa. Cylindrical hollow-tile structure and blocks therefor. No. 1,146,508; July 13; Gaz. vol. 216; p. 559.
 Naylor, Isaac B., New York, N. Y. Irrigation-pipe. No. 1,152,901; Sept. 7; Gaz. vol. 218; p. 192.
 Naylor, Isaac B., New York, N. Y. Irrigation. No. 1,153,332; Sept. 14; Gaz. vol. 218; p. 380.
 Naylor, Jonathan R., Kalamazoo township, Kalamazoo county, Mich. Clothes-rack. No. 1,125,372; Jan. 19; Gaz. vol. 210; p. 846.
 Naylor, Perry T., Springfield, Mass. Spraying-nozzle. No. 1,138,500; May 4; Gaz. vol. 214; p. 273.
 Naylor, Walter N., Forest Hill, and S. P. Hutton, Beckenham, England. Apparatus for the manufacture of metallic alloys. No. 1,132,376; Mar. 16; Gaz. vol. 212; p. 959.
 Naylor, William R., assignor to B. A. Ballou and Company, Inc., Providence, R. I. Connector for neck-chains. No. 1,141,575; June 1; Gaz. vol. 215; p. 175.
 Naysmith, Frank M., Davenport, Iowa. Chiropractic table. No. 1,145,503; July 6; Gaz. vol. 216; p. 185.
 Nazel, John. (See Bates, Ralph E., assignor.)
 Nazel, Ralph W., Philadelphia, Pa. Corrugating-machine. No. 1,128,621; Feb. 16; Gaz. vol. 211; p. 774.
 Nazel, Ralph W., Philadelphia, Pa. Corrugating-machine. No. 1,161,510; Nov. 23; Gaz. vol. 220; p. 1225.
 Neahr, Jacob E., New York, N. Y. Match-igniting device. No. 1,144,611; June 29; Gaz. vol. 215; p. 1358.
 Neahr, Jacob E., New York, N. Y. Match-igniting device. No. 1,144,612; June 29; Gaz. vol. 215; p. 1359.
 Neahr, Will C., assignor to The Protective Signal Manufacturing Company, Denver, Colo. Circuit-closer. No. 1,134,547; Apr. 6; Gaz. vol. 213; p. 169.
 Neahr, Will C., assignor to The Protective Signal Manufacturing Company, Denver, Colo. Plug-socket. No. 1,159,701; Nov. 9; Gaz. vol. 220; p. 484.
 Neal, Albert, Kokomo, Ind. Lifting-jack. No. 1,151,962; Aug. 31; Gaz. vol. 217; p. 1487.
 Neal, Finess E., Anderson, Ind. Liner for pneumatic tires. No. 1,155,367; Oct. 5; Gaz. vol. 219; p. 15.
 Neal, George W., Clarksville, Ark. Peach slicer and seeder. No. 1,129,894; Mar. 2; Gaz. vol. 212; p. 21.
 Neal, Franklin G., Halifax, Nova Scotia, Canada. Nut-locking device. No. 1,144,493; June 29; Gaz. vol. 215; p. 1319.
 Neal, George M. (See Miller, Lewis J., assignor.)
 Neal, Harry W., Indianapolis, Ind. Register-shield. No. 1,152,539; Sept. 7; Gaz. vol. 218; p. 59.
 Neal, J. N. (See Van Valkenburg, Randall T., assignor.)
 Neal, James L., Newcomerstown, Ohio. Signal or switch operating device. No. 1,151,898; Aug. 31; Gaz. vol. 217; p. 1467.
 Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Air-retaining valve for air-brake apparatus. No. 1,125,151; Jan. 19; Gaz. vol. 210; p. 765.
 Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Triple valve for air-brakes. No. 1,125,871; Jan. 19; Gaz. vol. 210; p. 1021.
 Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Quick-action release mechanism for air-brakes. No. 1,128,622; Feb. 16; Gaz. vol. 211; p. 774.
 Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Air-retaining valve for air-brake apparatus. No. 1,157,954; Oct. 26; Gaz. vol. 219; p. 1036.
 Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Feed-valve for air-brake apparatus. No. 1,162,383; Nov. 30; Gaz. vol. 220; p. 1574.
 Neale, William M., Greenville, S. C. Cotton-seed press. No. 1,153,103; Sept. 7; Gaz. vol. 218; p. 262.
 Neale, William M., Greenville, S. C. Oil extraction from seed-kernels. No. 1,164,383; Dec. 14; Gaz. vol. 221; p. 622.
 Near Side Car Company, The. (See Senter, Ralph T., assignor.)
 Neary, James. (See King and Neary.)
 Neary, James P., et al. (See Kutter, Herman L., assignor.)
 Neben, Emil T., Brooklyn, assignor to Paragon Fibre Coloring Corporation, New York, N. Y. Multicolor-printing roll and making. No. 1,159,337; Nov. 2; Gaz. vol. 220; p. 322.
 Nebergall, William H., Pendleton, Oreg. Traction-wheel. No. 1,123,351; Jan. 5; Gaz. vol. 210; p. 53.
 Nebel, John L. W., Everett, Wash. Apparatus for impregnating timbers. No. 1,132,025; Mar. 16; Gaz. vol. 212; p. 832.
 Neckerman, William M., Youngstown, Ohio. Tong-carrier. No. 1,136,160; Apr. 20; Gaz. vol. 213; p. 817.
 Neckerman, William M., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Pipe-transferring apparatus. No. 1,126,833; Feb. 2; Gaz. vol. 211; p. 61.
 Neckerman, William M., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Charging and push-out apparatus for furnaces. No. 1,159,702; Nov. 9; Gaz. vol. 220; p. 485.

Alphabetical list of patentees—Continued.

- Nedbor, Samuel, Somerville, Mass. Convertible spray and jet nozzle. No. 1,128,178; Feb. 9; Gaz. vol. 211; p. 572.
- Nedrow, Benjamin F., Anacortes, assignor of one-half to H. N. Marshall, Shaw Island, Wash. Releasing-hook. No. 1,124,790; Jan. 12; Gaz. vol. 210; p. 602.
- Needham, Houghton L., Chicago, Ill. Spark-arrester. No. 1,140,911; May 25; Gaz. vol. 214; p. 1230.
- Needham, John F., Phelps, N. Y. Seeder. No. 1,160,526; Nov. 16; Gaz. vol. 220; p. 829.
- Needham, John T., Bayonne, assignor, by mesne assignments, to The Lamson Company, Newark, N. J. Pneumatic-dispatch-tube apparatus. No. 1,124,505; Jan. 12; Gaz. vol. 210; p. 499.
- Needham, John T., Bayonne, assignor, by mesne assignments, to The Lamson Company, Newark, N. J. Pneumatic-dispatch-tube apparatus. No. 1,148,116; July 27; Gaz. vol. 216; p. 1169.
- Needham, John T., New York, N. Y., assignor, by mesne assignments, to The Lamson Company, Newark, N. J. Pneumatic-dispatch-tube apparatus. No. 1,134,402; Apr. 6; Gaz. vol. 213; p. 116.
- Needham, Laban W., Chicago, Ill. Engine-starter. No. 1,147,424; July 20; Gaz. vol. 216; p. 898.
- Needleman, Charles, assignor of one-half to E. A. Martell, New York, N. Y. Collapsible toy and the like. No. 1,128,031; Feb. 9; Gaz. vol. 211; p. 520.
- Neel, Allen A. P., assignor of one-half to T. H. Maddux, Marshall, Va. Automobile transmission mechanism. No. 1,123,915; Jan. 5; Gaz. vol. 210; p. 245.
- Neel, Allen A. P., assignor of one-half to T. H. Maddux, Marshall, Va. Starter for motor-cars. No. 1,126,555; Jan. 26; Gaz. vol. 210; p. 1303.
- Neel, Allen A. P., assignor of one-half to T. H. Maddux, Marshall, Va. Self-starter for automobiles. No. 1,126,556; Jan. 26; Gaz. vol. 210; p. 1303.
- Neel, Guy W., Dublin, Tex. Transposition device for electric lines. No. 1,136,433; Apr. 20; Gaz. vol. 213; p. 916.
- Neel, James L., assignor of one-half to A. C. Kipp, Cedar Rapids, Iowa. Can-making machine. No. 1,156,619; Oct. 12; Gaz. vol. 219; p. 476.
- Neeland, Marvin A., Montclair, N. J. Hot-blast stove. No. 1,142,838; June 15; Gaz. vol. 215; p. 689.
- Neeley, George S., St. Louis, Mo., assignor, by mesne assignments, to General Electric Company. Apparatus for regulating the field density of electric generators. No. 1,155,001; Sept. 28; Gaz. vol. 218; p. 1020.
- Neeley, George S., St. Louis, Mo., assignor, by mesne assignments, to General Electric Company. Electric regulator. No. 1,157,955; Oct. 26; Gaz. vol. 219; p. 1037.
- Neeley, George S., St. Louis, Mo., assignor, by mesne assignments, to General Electric Company. Automatic voltage-regulator. No. 1,158,001; Oct. 26; Gaz. vol. 219; p. 1053.
- Neeley, George S., St. Louis, Mo., assignor, by mesne assignments, to General Electric Company. System of electrical distribution. No. 1,160,749; Nov. 16; Gaz. vol. 220; p. 911.
- Neeley, Samuel T., Charlie, Tex. Weighing device. No. 1,147,259; July 20; Gaz. vol. 216; p. 839.
- Neelmeier, Wilhelm. (See Jordan and Neelmeier.)
- Neelmeier, Wilhelm, and A. Sigwart, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Azo dye. No. 1,128,813; Feb. 16; Gaz. vol. 211; p. 840.
- Neelmeier, Wilhelm, and A. Sigwart, Leverkusen, near Cologne, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Azo coloring-matter. No. 1,128,814; Feb. 16; Gaz. vol. 211; p. 840.
- Neely, Charles, Ebersburg, Pa. Shingle-cutting device. No. 1,146,089; July 13; Gaz. vol. 216; p. 410.
- Neely, Charles D., Chicago, Ill. Dancing-clog. No. 1,138,684; May 11; Gaz. vol. 214; p. 375.
- Neely, Clarence L. and F. K., Corydon, Iowa. Tire. No. 1,135,836; Apr. 13; Gaz. vol. 213; p. 664.
- Neely Compress and Cotton Company, The. (See Wood, James N., assignor.)
- Neely, E. O., et al. (See Kenison and Neely, assignors.)
- Neely, Floyd K. (See Neely, Clarence L. and F. K.)
- Neely, Jesse A. (See Kenison and Neely.)
- Neely, John, Lapeer, Mich. Bleaching-gas generator. No. 1,145,609; July 6; Gaz. vol. 216; p. 220.
- Neely, Zen W., and G. A. Lewis, Rayland, Ohio. Insulator. No. 1,150,697; Aug. 17; Gaz. vol. 217; p. 951.
- Neenan Elevator Company. (See Neenan, Michael E., assignor.)
- Neenan, John J., G. T. Hanchett, and M. E. Neenan, New York, N. Y. Automatic traction-rope-take-up mechanism. No. 1,126,260; Jan. 26; Gaz. vol. 210; p. 1196.
- Neenan, Michael E. (See Neenan, Hanchett, and Neenan.)
- Neenan, Michael E., assignor to Neenan Elevator Company, New York, N. Y. Brake apparatus for elevators. No. 1,126,261; Jan. 26; Gaz. vol. 210; p. 1196.
- Nepper, Alexander M. (See Stiefel, Henry C., assignor.)
- Neer, Harry M., assignor to The Turnbul Manufacturing Company, Columbus, Ohio. Valve-grinder. No. 1,161,070; Nov. 23; Gaz. vol. 220; p. 1067.
- Neevel, Jacob B., Kansas City, Mo. Applying-tool for concrete-reinforcing ties. No. 1,135,042; Apr. 13; Gaz. vol. 213; p. 388.
- Neevel, Jacob B., Kansas City, Mo. Supporting-tie for rods. No. 1,151,378; Aug. 24; Gaz. vol. 217; p. 1239.
- Neff, Abner R. (See Hoar, Allen, assignor.)
- Neff Company, The. (See Neff, Douglas M., assignor.)
- Neff, Douglas M., East Cleveland, assignor to The Neff Company, Cleveland, Ohio. Camp-stool. No. 1,134,057; Mar. 30; Gaz. vol. 212; p. 1645.
- Neff, James R., Indianapolis, Ind. Bottle-cap perforator and remover. No. 1,154,718; Sept. 28; Gaz. vol. 218; p. 925.
- Neff, John P., East Orange, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,031; May 4; Gaz. vol. 214; p. 107.
- Neff, John P., East Orange, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,055; May 4; Gaz. vol. 214; p. 117.
- Neff, John P., East Orange, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Steam-boiler. No. 1,138,057; May 4; Gaz. vol. 214; p. 118.
- Neff, John P., East Orange, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler fire-box. No. 1,138,058; May 4; Gaz. vol. 214; p. 118.
- Neff, John P., East Orange, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Oil-burning locomotive. No. 1,138,063; May 4; Gaz. vol. 214; p. 120.
- Neff, John P., East Orange, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Oil-burning locomotive. No. 1,138,064; May 4; Gaz. vol. 214; p. 121.
- Neff, John P., East Orange, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,068; May 4; Gaz. vol. 214; p. 123.
- Neff, John P., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Arch-brick. No. 1,138,033; May 4; Gaz. vol. 214; p. 108.
- Neff, John P., Brooklyn, assignor, by mesne assignments, to American Arch Company, New York, N. Y. Arch-brick and supporting means therefor. No. 1,138,036; May 4; Gaz. vol. 214; p. 109.
- Neff, Kurt, Neu-Ulm, Germany. Sleigh-motor. No. 1,150,956; Aug. 24; Gaz. vol. 217; p. 1098.
- Neff, Lambert G., New York, N. Y., and J. J. Taylor, Richmond, Vt. Hemming attachment for sewing-machines. No. 1,155,159; Sept. 28; Gaz. vol. 218; p. 1077.
- Neff, Louis C., Jersey City, N. J. Garment-supporting belt. No. 1,151,708; Aug. 31; Gaz. vol. 217; p. 1399.
- Neff, Omar F., Chicago, Ill. Smoke-house. No. 1,166,146; Dec. 28; Gaz. vol. 221; p. 1319.
- Neff, Raymond H. (See De Berry and Neff.)
- Neger, Joseph, New York, N. Y. Dropper device. No. 1,147,882; July 27; Gaz. vol. 216; p. 1084.
- Negraval, Louis A., Jersey City, N. J., assignor of one-third to A. S. Frank and one-third to C. S. Gutmann, New York, N. Y. Box. No. 1,165,894; Dec. 28; Gaz. vol. 221; p. 1228.
- Nehr, William F., assignor to New Jersey Patent Company, West Orange, N. J. Phonographic molding apparatus. No. 1,162,800; Dec. 7; Gaz. vol. 221; p. 24.
- Neibaur, Charles P. (See Neibaur, Nathan A. and C. P.)
- Neibaur, Nathan A. and C. P., Salt Lake City, Utah. Ticket-holder. No. 1,125,373; Jan. 19; Gaz. vol. 210; p. 846.
- Neider, Fred A., assignor to F. A. Neider Company, Augusta, Ky. Device for double-heading nails. No. 1,160,191; Nov. 16; Gaz. vol. 220; p. 712.
- Neidich, Samuel A., Edgewater Park, N. J. Machine for testing type-writer ribbons, &c. No. 1,140,912; May 25; Gaz. vol. 214; p. 1230.
- Neighbour, William W., Sandusky, Ohio. Antifriction-bearing. No. 1,136,161; Apr. 20; Gaz. vol. 213; p. 818.
- Neikirk, John O., assignor to Hercules Equipment Company, Chicago, Ill. Shaft-operating mechanism. No. 1,125,033; Jan. 12; Gaz. vol. 210; p. 687.
- Neikirk, John O., assignor to National Dump Car Company, Chicago, Ill. Center sill. No. 1,129,416; Feb. 23; Gaz. vol. 211; p. 1088.
- Neikirk, John O., Morgan Park, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism for railway-cars. No. 1,161,240; Nov. 23; Gaz. vol. 220; p. 1130.
- Neikirk, John O., Morgan Park, assignor to Rodger Ballast Car Company, Chicago, Ill. Ballast-car. No. 1,138,006; May 4; Gaz. vol. 214; p. 99.
- Neikirk, John O., and A. G. Bancroft, assignors to Hercules Equipment Company, Chicago, Ill. Shaft-operating mechanism. No. 1,166,073; Dec. 28; Gaz. vol. 221; p. 1290.
- Neill, Bertram, Fullerton, Cal. Boiler-cleaning apparatus. No. 1,148,789; Aug. 3; Gaz. vol. 217; p. 110.
- Neill, James W., Pasadena, Cal. Jigging apparatus. No. 1,144,494; June 29; Gaz. vol. 215; p. 1320.
- Neill, John, Honolulu, Hawaii. Speed-reducing gearing. No. 1,138,968; May 11; Gaz. vol. 214; p. 476.
- Neilsen, Hans C. (See Frazee, Jackson F., assignor.)

Alphabetical list of patentees—Continued.

- Neily, Waldo C., Canaan, N. H. Combined ironing-board and step-ladder. No. 1,131,943; Mar. 16; Gaz. vol. 212; p. 801.
- Neiman, Howard S., Atlantic City, N. J. Bouquet-support. No. 1,123,352; Jan. 5; Gaz. vol. 210; p. 54.
- Neiman, Oscar H., Freeport, Ill. Lubricator. No. 1,137,274; Apr. 27; Gaz. vol. 213; p. 1254.
- Neinken, Samuel, and H. Gonen, Paterson, N. J. Combined handle and tying device for boxes. No. 1,147,745; July 27; Gaz. vol. 216; p. 1036.
- Nelstadt, Henry, Ames, Iowa, assignor to The Stanley Rule & Level Company, New Britain, Conn. Clapboard-marker. No. 1,153,171; Sept. 7; Gaz. vol. 218; p. 284.
- Nelke, Herbert L., Philadelphia, Pa. Making and shaping garments. No. 1,133,172; Mar. 23; Gaz. vol. 212; p. 1299.
- Nellany, Charles V., New York, N. Y. Tooth-brush. No. 1,142,356; June 8; Gaz. vol. 215; p. 483.
- Nellen, Friedrich, Bredeneu, near Essen-on-the-Ruhr, Germany. Hen-coop. No. 1,162,386; Nov. 30; Gaz. vol. 220; p. 1575.
- Neller, Albert H., assignor to Loudon Machinery Co., Fairfield, Iowa. Manger for animal pens and stalls. No. 1,124,058; Jan. 5; Gaz. vol. 210; p. 292.
- Neller, Albert H., assignor to Loudon Machinery Company, Fairfield, Iowa. Stanchion for animal-pens. No. 1,163,440; Dec. 7; Gaz. vol. 221; p. 247.
- Neller, Albert H., assignor of one-third to I. L. Eales and one-third to F. S. Boies, Fairfield, Iowa. Caster-mounting. No. 1,155,606; Oct. 5; Gaz. vol. 219; p. 98.
- Neller, Albert H., assignor of one-third to I. L. Eales and one-third to F. S. Boies, Fairfield, Iowa. Caster-mounting. No. 1,155,607; Oct. 5; Gaz. vol. 219; p. 98.
- Nelles, Anton, Neuenahr, Germany. Injector-burner for furnaces. No. 1,153,639; Sept. 14; Gaz. vol. 218; p. 490.
- Nelles, Fred C. (See Grine, Harry A., assignor.)
- Nellis, Charles E. (See Ellis and Nellis.)
- Nelsen, Thyge, Chicago, Ill. Electric-lamp fixture. No. 1,124,939; Jan. 12; Gaz. vol. 210; p. 654.
- Nelson, Alexander. (See Hess, Christian F., assignor.)
- Nelson, Alfred, Camden, N. J. Cushion-tire. No. 1,156,802; Oct. 12; Gaz. vol. 219; p. 538.
- Nelson, Alfred, assignor to Abram Cox Stove Company, Philadelphia, Pa. Damper for stove and furnace flues. No. 1,165,115; Dec. 21; Gaz. vol. 221; p. 919.
- Nelson, Alfred A., Atlantic, Iowa. Collapsible draw-bar. No. 1,148,791; Aug. 3; Gaz. vol. 217; p. 111.
- Nelson, Alfred A., Atlantic, Iowa. Lever-hinge. No. 1,161,786; Nov. 23; Gaz. vol. 220; p. 1320.
- Nelson, Alfred A. and W., Atlantic, Iowa. Harrow. No. 1,148,790; Aug. 3; Gaz. vol. 217; p. 111.
- Nelson, Alfred A. and W., Atlantic, Iowa. Combination-cart. No. 1,163,603; Dec. 7; Gaz. vol. 221; p. 304.
- Nelson, Andrew, Chicago, Ill. Convertible bench. No. 1,147,537; July 20; Gaz. vol. 216; p. 936.
- Nelson, Andrew H., Mason City, Iowa. Guide means for brick-cutting machines. No. 1,164,846; Dec. 21; Gaz. vol. 221; p. 824.
- Nelson, Arthur C., Duluth, Minn. Automatic stoker. No. 1,138,501; May 4; Gaz. vol. 214; p. 273.
- Nelson, Arthur W., et al. (See Knudsen, John L., assignor.)
- Nelson, Arthur W., Williamsport, Pa. Sash-supporter. No. 1,127,666; Feb. 9; Gaz. vol. 211; p. 388.
- Nelson, Arthur W., Chicago, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-furnace arch. No. 1,138,054; May 4; Gaz. vol. 214; p. 116.
- Nelson, August T., assignor of forty-one one-hundredths to J. Graves and fifteen one-hundredths to A. C. Kleckhefer, Milwaukee, Wis. Means for lowering boats at sea. No. 1,131,411; Mar. 9; Gaz. vol. 212; p. 578.
- Nelson, Belle O. (See Nelson, Frank E., assignor.)
- Nelson, Bernt A., Muskegon, Mich. Power-drill. No. 1,164,384; Dec. 14; Gaz. vol. 221; p. 622.
- Nelson, Bessie D., administratrix. (See Latham, Charles E., assignor.)
- Nelson, Bessie D., administratrix. (See Nelson, Forrest.)
- Nelson, Bruce G., Grand Forks, N. D. Grain-saving device. No. 1,135,542; Apr. 13; Gaz. vol. 213; p. 559.
- Nelson, Carl. (See Anderson and Nelson.)
- Nelson, Carl. (See Johnson and Nelson.)
- Nelson, Carl E., Wilkensburg, Pa. Keyboard for telegraph-transmitters. No. 1,157,714; Oct. 26; Gaz. vol. 219; p. 953.
- Nelson, Carl G., Pittsburgh, Pa. Sanitary apron. No. 1,165,533; Dec. 28; Gaz. vol. 221; p. 1101.
- Nelson, Carl L., Seattle, Wash., assignor to The National Cash Register Company, Dayton, Ohio. Drawer mechanism for cash-registers. No. 1,123,353; Jan. 5; Gaz. vol. 210; p. 54.
- Nelson, Carl L., Seattle, Wash., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register indicator. No. 1,156,091; Oct. 12; Gaz. vol. 219; p. 293.
- Nelson, Carl L., Seattle, Wash., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,162,801; Dec. 7; Gaz. vol. 221; p. 24.
- Nelson, Carl L. W., Medford, assignor to Vega Company, Boston, Mass. Cornet. No. 1,165,278; Dec. 21; Gaz. vol. 221; p. 975.
- Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Alcohol-lamp. No. 1,154,125; Sept. 21; Gaz. vol. 218; p. 693.
- Nelson, Charles, New York, N. Y., and L. H. Dyer, Greenwich, Conn., assignors to S. Sternau & Company, New York, N. Y. Coffee-machine. No. 1,134,979; Apr. 6; Gaz. vol. 213; p. 320.
- Nelson, Charles A., assignor to Savage Arms Company, Utica, N. Y. Tubular-magazine rifle. No. 1,141,256; June 1; Gaz. vol. 215; p. 58.
- Nelson, Charles A., assignor to Savage Arms Company, Utica, N. Y. Firearm. No. 1,152,750; Sept. 7; Gaz. vol. 218; p. 136.
- Nelson, Charles A., assignor to Savage Arms Company, Utica, N. Y. Firearm. No. 1,165,621; Dec. 28; Gaz. vol. 221; p. 1133.
- Nelson, Charles J., assignor of one-half to H. R. Anderson, Madella, Minn. Door-latch. No. 1,145,788; July 6; Gaz. vol. 216; p. 284.
- Nelson, Charles J., O. Ostlin, and E. V. Swangren, Maywood, Ill., assignors to American Can Company, New York, N. Y. Double-seaming machine. No. 1,161,953; Nov. 30; Gaz. vol. 220; p. 1426.
- Nelson, Charles S., Providence, R. I. Dish-mop. No. 1,150,957; Aug. 24; Gaz. vol. 217; p. 1098.
- Nelson, Edward H., Galesburg, Ill. Automatic lubricating device. No. 1,162,873; Dec. 7; Gaz. vol. 221; p. 49.
- Nelson, Emil, Portland, Oreg. Nozzle-holder. No. 1,144,495; June 29; Gaz. vol. 215; p. 1320.
- Nelson, Emil A., Detroit, Mich. Curtain-support for vehicle canopy-tops. No. 1,160,947; Nov. 16; Gaz. vol. 220; p. 980.
- Nelson, Emil A., assignor to Hupp Motor Car Company, Detroit, Mich. Motor-vehicle frame and body construction. No. 1,143,987; June 22; Gaz. vol. 215; p. 1114.
- Nelson, Emil A., assignor to Hupp Motor Car Company, Detroit, Mich. Lubricating system for engine and transmission. No. 1,144,496; June 29; Gaz. vol. 215; p. 1320.
- Nelson, Emil A., assignor to Hupp Motor Car Company, Detroit, Mich. Power-transmission mechanism. No. 1,163,844; Dec. 14; Gaz. vol. 221; p. 435.
- Nelson, Erik, Holdrege, Nebr. Cabinet. No. 1,133,997; Mar. 30; Gaz. vol. 212; p. 1623.
- Nelson, Erik W. (See Carleton and Nelson.)
- Nelson, Ernest G., et al. (See Hammond, John W. and P. M., assignors.)
- Nelson, Eugene, et al. (See Gleason, Thomas F., assignor.)
- Nelson, Eugene A., New York, N. Y. Combined pipe wrench, cutter, and die. No. 1,138,395; May 4; Gaz. vol. 214; p. 238.
- Nelson, Forrest, deceased; B. D. Nelson, Boston, Mass., administratrix. Internal-combustion engine. No. 1,159,787; Nov. 9; Gaz. vol. 220; p. 517.
- Nelson, Frank E., assignor to B. O. Nelson, Los Angeles, Cal. Shoe-polishing device. No. 1,151,034; Aug. 24; Gaz. vol. 217; p. 1125.
- Nelson, Fred, et al. (See Wells and Saxton, assignors.)
- Nelson, Frederick S., New Haven, Conn. Shock-absorber. No. 1,123,916; Jan. 5; Gaz. vol. 210; p. 245.
- Nelson, George A., et al. (See Perkins, Thomas G., assignor.)
- Nelson, Hans Z., assignor to American Gas Machine Company, Albert Lea, Minn. Valve-actuating device. No. 1,137,517; Apr. 27; Gaz. vol. 213; p. 1339.
- Nelson, Harmon O., assignor to The Whitin Machine Works, Whitinsville, Mass. Multiplier for looms. No. 1,145,030; July 6; Gaz. vol. 216; p. 20.
- Nelson, Harmon O., assignor to The Whitin Machine Works, Whitinsville, Mass. Clearer-mounting for roving-frames. No. 1,149,209; Aug. 10; Gaz. vol. 217; p. 359.
- Nelson, Harry C. (See Watson, Bazel R., assignor.)
- Nelson, Harry R., Elizabeth, N. J. Electrolytic cell. No. 1,149,210; Aug. 10; Gaz. vol. 217; p. 359.
- Nelson, Harry R., Elizabeth, N. J. Method of electrolysis. No. 1,149,211; Aug. 10; Gaz. vol. 217; p. 360.
- Nelson, Harvey, Ironwood, Mich. Automobile-fender. No. 1,163,441; Dec. 7; Gaz. vol. 221; p. 248.
- Nelson, Henry F., Angola, La. Rail-joint. No. 1,143,851; June 22; Gaz. vol. 215; p. 1067.
- Nelson, James W., New York, N. Y. Hydraulic jack. No. 1,149,279; Aug. 10; Gaz. vol. 217; p. 385.
- Nelson, James W., and W. H. Mathers, New York, N. Y. Hydraulic jack. No. 1,136,830; Apr. 20; Gaz. vol. 213; p. 1057.
- Nelson, John. (See Hain, Leon, assignor.)
- Nelson, John. (See Kiansten and Nelson.)
- Nelson, John A. (See Spangler, John H., assignor.)
- Nelson, John A., Holdrege, Nebr. Corn-husking device. No. 1,165,534; Dec. 28; Gaz. vol. 221; p. 1102.
- Nelson, John F., Rockford, Ill. Knit article. No. 1,166,147; Dec. 28; Gaz. vol. 221; p. 1319.
- Nelson, John O., Onida, S. D. Earth-auger. No. 1,152,337; Aug. 31; Gaz. vol. 217; p. 1618.
- Nelson, John M., Duluth, Minn. Motor-cycle stand. No. 1,134,893; Apr. 6; Gaz. vol. 213; p. 290.

Alphabetical list of patentees—Continued.

- Nelson, John W., New York, N. Y. Sight-glass for routing-machines. No. 1,148,397; July 27; Gaz. vol. 216; p. 1268.
- Nelson, John W., and J. C. Scoggins, Viola, Kans. Sanitary closet. No. 1,153,815; Sept. 14; Gaz. vol. 218; p. 551.
- Nelson, Lyman H., Portland, Me. Game-board. No. 1,136,552; Apr. 20; Gaz. vol. 213; p. 957.
- Nelson, Nels A., Grafton, Cal. Plow. No. 1,161,241; Nov. 23; Gaz. vol. 220; p. 1130.
- Nelson, Nels P., Seattle, Wash. Submarine vessel. No. 1,165,535; Dec. 28; Gaz. vol. 221; p. 1102.
- Nelson, Nicholas R. (See Van Brunt and Nelson.)
- Nelson, Nils G., Oak Park, assignor to W. H. Grimm, Chicago, Ill. Window-sash lock. No. 1,155,084; Sept. 28; Gaz. vol. 218; p. 1051.
- Nelson, Nordahl O., Westby, Wis. Brace for cabinets. No. 1,130,426; Mar. 2; Gaz. vol. 212; p. 204.
- Nelson, Ole P., Lynn township, Lincoln county, S. D. Carburetor-warmer. No. 1,160,192; Nov. 16; Gaz. vol. 220; p. 712.
- Nelson, Oscar. (See Wiggen, Peder, assignor.)
- Nelson, Peter R., Mambajao, Philippine islands. Fiber-cleaning machine. No. 1,157,575; Oct. 19; Gaz. vol. 219; p. 840.
- Nelson, Sven T., Chicago, Ill. Hoisting-engine. No. 1,129,044; Feb. 16; Gaz. vol. 211; p. 923.
- Nelson, Sven T., Chicago, Ill. Controlling device for hoisting-engines. No. 1,129,045; Feb. 16; Gaz. vol. 211; p. 923.
- Nelson, Sven T., Oak Park, Ill., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Ejector for wells. No. 1,151,529; Aug. 24; Gaz. vol. 217; p. 1292.
- Nelson, Sylvester, Detroit, Mich. Axle-dies. No. 1,129,417; Feb. 23; Gaz. vol. 211; p. 1088.
- Nelson, Sylvester, Detroit, Mich. Manufacturing axles. No. 1,129,418; Feb. 23; Gaz. vol. 211; p. 1088.
- Nelson, Theodore H., Chicago, Ill. Burglar-alarm. No. 1,127,916; Feb. 9; Gaz. vol. 211; p. 480.
- Nelson, Thomas A., Chicago, Ill. Air-valve for radiators. No. 1,161,877; Nov. 30; Gaz. vol. 220; p. 1397.
- Nelson, Walter. (See Nelson, Alfred A. and W.)
- Nelson, Walter R., Mill Village, N. H. Cattle-stanchion. No. 1,134,150; Apr. 6; Gaz. vol. 213; p. 24.
- Nelson, William H., Hazleton, Iowa. Sash-fastener. No. 1,138,396; May 4; Gaz. vol. 214; p. 238.
- Nelson, William J. C., Brooklyn, N. Y. Shoe-lace protector. No. 1,146,090; July 13; Gaz. vol. 216; p. 411.
- Nelson, William O., Troy, Ohio. Speed-indicator for cream-separators. No. 1,162,707; Nov. 30; Gaz. vol. 220; p. 1682.
- Nelson, William P., Columbia Falls, Mont. Bread-mixer. No. 1,157,576; Oct. 19; Gaz. vol. 219; p. 841.
- Nemec, Anton J., Chicago, Ill. Producing raised dull-finish prints. No. 1,123,917; Jan. 5; Gaz. vol. 210; p. 245.
- Nemec, Mary, Chicago, Ill. Kitchen-sink. No. 1,134,696; Apr. 6; Gaz. vol. 213; p. 224.
- Nemethy, William, Yonkers, N. Y. Flushing-valve. No. 1,163,442; Dec. 7; Gaz. vol. 221; p. 248.
- Nemetz, James, Yantic, Mont. Antislipping device for horseshoes. No. 1,149,077; Aug. 3; Gaz. vol. 217; p. 209.
- Nenstiehl, William C., Wilmington, Del. Sprinkler-top for containers. No. 1,161,718; Nov. 23; Gaz. vol. 220; p. 1296.
- Neptune Meter Company. (See Burton, James M., assignor.)
- Neptune Meter Company. (See Dilts, Henry I., assignor.)
- Nerenhausen, Edmund J., Oconto, Wis. Detachable milk-seat. No. 1,131,540; Mar. 9; Gaz. vol. 212; p. 623.
- Nernst Lamp Company. (See Roffey, Joseph T., assignor.)
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 1,131,541; Mar. 9; Gaz. vol. 212; p. 623.
- Nesbit, William, Baltusrol, N. J. Flash-light photography. No. 1,152,203; Aug. 31; Gaz. vol. 217; p. 1571.
- Nesetril, Jan, Prague, assignor to J. P. Colloredo-Mannsfeld, Dobris, Austria-Hungary. Press. No. 1,129,001; Feb. 16; Gaz. vol. 211; p. 907.
- Nesetril, Jan, Prague, assignor to J. P. Colloredo-Mannsfeld, Dobris, Austria-Hungary. Apparatus for mixing cement and fibrous material. No. 1,138,397; May 4; Gaz. vol. 214; p. 239.
- Nesetril, Jan, Prague, assignor to J. P. Colloredo-Mannsfeld, Dobris, Austria-Hungary. Reinforced-concrete railway-sleeper. No. 1,138,398; May 4; Gaz. vol. 214; p. 239.
- Neshime, Carl K., and S. J. Rognlie, Minot, N. D. Developing-machine. No. 1,136,703; Apr. 20; Gaz. vol. 213; p. 1011.
- Nesine, Max, Minneapolis, Minn. Wheel-hub cap. No. 1,147,746; July 27; Gaz. vol. 216; p. 1036.
- Nesler, Charles F., assignor to Nesler & Company, Newark, N. J. Hoop ear-ring. No. 1,139,309; May 11; Gaz. vol. 214; p. 594.
- Nesler & Company. (See Nesler, Charles F., assignor.)
- Nesom, Thomas, Indianapolis, Ind. Folding baby-hammock. No. 1,161,405; Nov. 23; Gaz. vol. 220; p. 1189.
- Nesper, John B., Narberth, Pa. Tooth-cleaner. No. 1,157,413; Oct. 19; Gaz. vol. 219; p. 787.
- Ness, Charles E., La Crosse, Wis. Automobile-fender. No. 1,146,091; July 13; Gaz. vol. 216; p. 411.
- Nesser, Philip G., Columbus, Ohio. Oil-burning mechanism. No. 1,151,899; Aug. 31; Gaz. vol. 217; p. 1467.
- Nestel, Osiias, New Haven, Conn. Stove. No. 1,153,243; Sept. 14; Gaz. vol. 218; p. 348.
- Nethercott, William J., Kerrobert, Saskatchewan, Canada. Ash-sifter. No. 1,156,923; Oct. 19; Gaz. vol. 219; p. 612.
- Netherton, Charles E. and J. W., North Judson, Ind. Smoke-consumer. No. 1,162,093; Nov. 30; Gaz. vol. 220; p. 1475.
- Netherton, John W. (See Netherton, Charles E. and J. W.)
- Netter, Edwin, Aurora, Oreg. Garbage-reservoir. No. 1,139,436; May 11; Gaz. vol. 214; p. 641.
- Nettle, John F., Butte, Mont. Resilient wheel. No. 1,136,704; Apr. 20; Gaz. vol. 213; p. 1012.
- Nettle, John F., Butte, Mont. Resilient wheel. No. 1,158,263; Oct. 26; Gaz. vol. 219; p. 1145.
- Nettle, John F., Butte, Mont. Resilient wheel. No. 1,163,443; Dec. 7; Gaz. vol. 221; p. 248.
- Nettle, John F., assignor of one-half to S. Lisa, Butte, Mont. Cushion-wheel. No. 1,143,304; June 15; Gaz. vol. 215; p. 854.
- Neu, Conrad. (See Mayer, Georg, assignor.)
- Neu-Metals and Process Company. (See Gleason, Edward D., assignor.)
- Neubauer, Ferdinand, Cleveland, Ohio. Ball-bearing gear. No. 1,164,847; Dec. 21; Gaz. vol. 221; p. 825.
- Neubecker, C. A. (See Strohl, Friedrich, assignor.)
- Neuber, Max. (See Kramp and Neuber.)
- Neuberger, Franklin H., Jeffersonville, N. Y. Stationary mortar-spreader. No. 1,130,532; Mar. 2; Gaz. vol. 212; p. 243.
- Neuberger, Henry C. (See Bergh and Neuberger.)
- Neuberger, Otto, Frankfurt-on-the-Main, Germany. Obtaining prints on fabrics. No. 1,135,043; Apr. 13; Gaz. vol. 213; p. 388.
- Neubert, Walter P., Wilkinsburg, and W. E. Smith, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electric switch-lock. No. 1,126,834; Feb. 2; Gaz. vol. 211; p. 61.
- Neuberth, Franklin G., Ansonia, Conn. Machine for making button-fasteners. No. 1,128,352; Feb. 16; Gaz. vol. 211; p. 681.
- Neuberth, George E., Newark, N. J. Transom-operating device. No. 1,126,835; Feb. 2; Gaz. vol. 211; p. 61.
- Neuberth, George E., Newark, N. J. Caster-socket. No. 1,128,623; Feb. 16; Gaz. vol. 211; p. 774.
- Neuberth, George E., Newark, N. J. Hinge. No. 1,149,212; Aug. 10; Gaz. vol. 217; p. 360.
- Neuberth, George E., Newark, N. J. Hinge. No. 1,149,213; Aug. 10; Gaz. vol. 217; p. 361.
- Neubig, Christian C., Jr. (See Neubig, Philip J. and C. C.)
- Neubig, Philip J. and C. C., Jr., Plaquemine, La. Demountable rim. No. 1,138,502; May 4; Gaz. vol. 214; p. 273.
- Neudorff, Frederick, Atlanta, Ga. Steering mechanism for motor-vehicles. No. 1,131,729; Mar. 16; Gaz. vol. 212; p. 723.
- Neuens, Michael W., assignor to Western Implement Company, Port Washington, Wis. Grinder. No. 1,162,304; Nov. 30; Gaz. vol. 220; p. 1548.
- Neuer, Max, New York, N. Y. Holder and cutter. No. 1,137,655; Apr. 27; Gaz. vol. 213; p. 1385.
- Neufeld, Oscar, Union, N. J. Automobile-brush. No. 1,151,813; Aug. 31; Gaz. vol. 217; p. 1437.
- Neuhausen, Sebastian P., Chicago, Ill., assignor of forty-nine one-hundredths to A. Doria, New York, N. Y. Resilient tire. No. 1,137,518; Apr. 27; Gaz. vol. 213; p. 1340.
- Neujahr, Leo H. (See Sparr and Neujahr.)
- Neukirch, Clemens, Wilmersdorf, near Berlin, Germany, assignor, by mesne assignments, to The Bearings Company of America, Jersey City, N. J. Ball-bearing. No. 1,146,272; July 13; Gaz. vol. 216; p. 474.
- Neukirchen, Peter, Chicago, Ill. Mucilage-spreader. No. 1,164,848; Dec. 21; Gaz. vol. 221; p. 825.
- Neuland, Alfons H., Bergenfield, N. J. Dynamo-electric machine. No. 1,157,414; Oct. 19; Gaz. vol. 219; p. 787.
- Neuland, Alfons H., San Francisco, Cal. Magneto. No. 1,162,726; Nov. 30; Gaz. vol. 220; p. 1688.
- Neuland, Alfons H., San Francisco, Cal. Displacement apparatus. No. 1,164,546; Dec. 14; Gaz. vol. 221; p. 678.
- Neuland, Alfons H., assignor to Neuland Magneto Company, San Francisco, Cal. Combined lighting and ignition system. No. 1,148,709; Aug. 3; Gaz. vol. 217; p. 81.
- Neuland, Alfons H., San Francisco, Cal., assignor to Neuland Electrical Company, Inc. Dynamo-electric machine. No. 1,160,087; Nov. 9; Gaz. vol. 220; p. 621.
- Neuland, Alfons H., Bergenfield, N. J., assignor to Neuland Magneto Company, San Francisco, Cal. Motor-cycle lighting system. No. 1,151,530; Aug. 24; Gaz. vol. 217; p. 1292.
- Neuland Electrical Company. (See Neuland, Alfons H., assignor.)
- Neuland Magneto Company. (See Neuland, Alfons H., assignor.)
- Neuman, Eduard H., et al., trustees. (See Myers, Mahlon C., assignor.)

Alphabetical list of patentees—Continued.

- Neuman, Edward W., York, Pa. Refrigerating apparatus. No. 1,140,183; May 18; Gaz. vol. 214; p. 941.
- Neuman, Henry T., New York, N. Y. Drying apparatus for photographic prints. No. 1,148,117; July 27; Gaz. vol. 216; p. 1170.
- Neuman, Henry T., and C. S. Danziger, New York, N. Y. Tent-side. No. 1,125,374; Jan. 19; Gaz. vol. 210; p. 847.
- Neumann, Alexander, Ridgway, Ill. Kettle-leg. No. 1,163,116; Dec. 21; Gaz. vol. 221; p. 919.
- Neumann, Jakob S., Great Falls, Mont. Safety attachment for vessels. No. 1,129,895; Mar. 2; Gaz. vol. 212; p. 21.
- Neumann, Paul, and J. Zeltner, Charlottenburg, Germany. Production of the esters of the tertiary alcohols. No. 1,123,572; Jan. 5; Gaz. vol. 210; p. 128.
- Neumann, Rudolph, Indianapolis, Ind. Butt and lock gage. No. 1,144,049; June 22; Gaz. vol. 215; p. 1137.
- Neumuth, Theodore W., New York, N. Y. Elevator safety device. No. 1,134,403; Apr. 6; Gaz. vol. 213; p. 116.
- Neupauer, George, Syracuse, N. Y. Roller-screen. No. 1,164,385; Dec. 14; Gaz. vol. 221; p. 623.
- Neustadter, Edwin I. (See Barger, Edward G., assignor.)
- Neusis, Frederick W., Mount Olive, Ill. Mail-bag lock. No. 1,158,538; Nov. 2; Gaz. vol. 220; p. 46.
- Neuteboom, Boudewijn B. (See Taylor and Neuteboom.)
- Neuteboom, Boudewijn B., and C. H. Taylor, Detroit, Mich. Explosion-engine. No. 1,160,438; Nov. 16; Gaz. vol. 220; p. 797.
- Nevers, Frank W., Minneapolis, Minn. Collar-finishing machine. No. 1,134,548; Apr. 6; Gaz. vol. 213; p. 170.
- Neverskid Manufacturing Co. (See Cleaver, Montague H., assignor.)
- Neverslip Manufacturing Company, The. (See Whitaker, Richard, assignor.)
- Neverslip Manufacturing Company, The. (See Whitaker, Richard, Jr., assignor.)
- Nevill, David J., assignor to The Dorr Cyanide Machinery Company, Denver, Colo. Ore-classifier. No. 1,156,543; Oct. 12; Gaz. vol. 219; p. 449.
- Nevill, David J., Denver, Colo., assignor to The Dorr Cyanide Machinery Company, Ore-classifier. No. 1,156,544; Oct. 12; Gaz. vol. 219; p. 449.
- Neville, Asa G., Wellsburg, W. Va. Steering-wheel for automobiles. No. 1,128,713; Feb. 16; Gaz. vol. 211; p. 804.
- Neville, Asa G., Wellsburg, W. Va. Steering-wheel-lock mechanism. No. 1,161,954; Nov. 30; Gaz. vol. 220; p. 1426.
- Neville, George, Vancouver, British Columbia, Canada. Railway-crossing alarm. No. 1,154,047; Sept. 21; Gaz. vol. 218; p. 667.
- Neville, Harry, assignor of one-fifth to P. Sheedy, one-fifth to G. H. Goodwin, one-fifth to D. Kellogg, and one-fifth to W. F. Merry, Los Angeles, Cal. Low-water alarm. No. 1,164,664; Dec. 21; Gaz. vol. 221; p. 761.
- Neville, Herbert. (See Pike and Neville.)
- Nevills, Eustace S., Shamokin, Pa. Harness-buckle. No. 1,147,338; July 20; Gaz. vol. 216; p. 866.
- New Albany Manufacturing Company, The. (See Raverty, Edward J., assignor.)
- New Britain Machine Company, The. (See Baker and De Long, assignors.)
- New Britain Machine Company, The. (See Brown, Robert S., assignor.)
- New Britain Machine Company, The. (See Erwin and Bowers, assignors.)
- New Britain Machine Company, The. (See Spencer, Christopher M., assignor.)
- New Departure Manufacturing Company, The. (See Graham, David F., assignor.)
- New Departure Manufacturing Company, The. (See Rockwell, Albert F., assignor.)
- New England Butt Company. (See Chace, John B., assignor.)
- New England Butt Company. (See Littlefield, Arlon, assignor.)
- New England Butt Company. (See McCahey, George F., assignor.)
- New England Butt Company. (See Paquette, Alfred, assignor.)
- New England Electric Company, The. (See Caine, James C., assignor.)
- New England Enameling Company, The. (See Bauer, Isaac, assignor.)
- New England Gas & Coke Company. (See Folsom, Robert M., assignor.)
- New Era Manufacturing Company, The. (See Rubinstein, Tobias L., assignor.)
- New Era Remover Company. (See Harris, Henry A., assignor.)
- New Haven Clock Co. (See Porter, Wilson E., assignor.)
- New Haven Clock Co. (See Porter and Cornwell, assignors.)
- New Idea Fencing Dropper Company. (See Sleeper, Frank H., assignor.)
- New Ideas Manufacturing Company. (See Dietz, Paul, assignor.)
- New Jersey Carbureter Company. (See Heath, Forrest A., assignor.)
- New Jersey Patent Company. (See Aylsworth, Jonas W., assignor.)
- New Jersey Patent Company. (See Chesler, Jerry, assignor.)
- New Jersey Patent Company. (See Dyer, Frank L., assignor.)
- New Jersey Patent Company. (See Edison, Thomas A., assignor.)
- New Jersey Patent Company. (See Elmes, Devereux, assignor.)
- New Jersey Patent Company. (See Holland, Newman H., assignor.)
- New Jersey Patent Company. (See Holland and Durand, assignors.)
- New Jersey Patent Company. (See Langley, Sam G., assignor.)
- New Jersey Patent Company. (See Latta, Frank F., assignor.)
- New Jersey Patent Company. (See Miller, Walter H., assignor.)
- New Jersey Patent Company. (See Morris, Edward P., assignor.)
- New Jersey Patent Company. (See Nehr, William F., assignor.)
- New Jersey Patent Company. (See Pierman, Alexander N., assignor.)
- New Jersey Patent Company. (See Saltzman, Auguste L., assignor.)
- New Jersey Testing Laboratories. (See Ellis, Carleton, assignor.)
- New Jersey Vending Machine Company, The. (See Pollock, Robert H., assignor.)
- New Jersey Zinc Company. (See Bryant, Albert D., assignor.)
- New Jersey Zinc Company, The. (See Brooks, George S., assignor.)
- New Jersey Zinc Company, The. (See Livingston, Archibald R., assignor.)
- New Jersey Zinc Company, The. (See Rigg, Gilbert, assignor.)
- New Jersey Zinc Company. (See Rowand, Lewis G., assignor.)
- New Jersey Zinc Company, The. (See Stone, George C., assignor.)
- New Metals-Process Company. (See Jones, John T., assignor.)
- New Method Stove Company. (See Baxter, Berry A., assignor.)
- New Process Make-Ready Company. (See Cook, John F., assignor.)
- New Process Oil Company. (See Washburn, Charles H., assignor.)
- New York Air Brake Company. (See Bickel, Henry F., assignor.)
- New York Air Brake Company. (See Bingley, John W., assignor.)
- New York Album and Card Co. Inc. (See Willinger and Davis, assignors.)
- New York Cement Gun Company. (See Schwarz, Alfred, assignor.)
- New York Central Iron Works Company. (See Hall, Foster J., assignor.)
- New York Cigarette Machine Company. (See Drucklieb, Paul A., assignor.)
- New York Coil Company. (See Rhoades, Lewis T., assignor.)
- New York Conveyancers Company, The. (See Goucher, James L., assignor.)
- New York Couch Bed Company. (See Sisbower, George F., assignor.)
- New York Couch Bed Company. (See Sisbower and Pittoni, assignors.)
- New York Revolving Portable Elevator Company. (See Germond, Henry S., Jr., assignor.)
- New York Sewage Disposal Company, The. (See Robinson and Wagner, assignors.)
- New York Stamping Company. (See Wojdkow, Louis, assignor.)
- Newark Gear Cutting Machine Co. (See Eberhardt, Henry E., assignor.)
- Newark Rivet Works. (See Reininger, Richard, assignor.)
- Newark Spring Mattress Company. (See Manchee, Wilfrid A., assignor.)
- Newark Spring Mattress Company, The. (See Odell, Robert C., assignor.)
- Newbauer, Faltine, assignor of one-half to J. J. Engen, Valley City, N. D. Grain-shocking device. No. 1,124,236; Jan. 5; Gaz. vol. 210; p. 355.
- Newbell, Albert G., Des Moines, Iowa. Sleeping-bag. No. 1,159,788; Nov. 9; Gaz. vol. 220; p. 517.
- Newberry, Spencer B., Baybridge, Ohio. Recovering alkalis from cement-kilns. No. 1,150,295; Aug. 17; Gaz. vol. 217; p. 813.
- Newberry, Spencer B., Baybridge, assignor to Sandusky Portland Cement Company, Cleveland, Ohio. Basic lining for kilns. No. 1,156,018; Oct. 5; Gaz. vol. 219; p. 240.
- Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Producing barium oxid. No. 1,133,392; Mar. 30; Gaz. vol. 212; p. 1413.
- Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Producing fertilizer. No. 1,158,711; Nov. 2; Gaz. vol. 220; p. 105.

Alphabetical list of patentees—Continued.

- Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Phosphate composition and calcining phosphates. No. 1,162,802; Dec. 7; Gaz. vol. 221; p. 24.
- Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Making phosphate fertilizers. No. 1,162,944; Dec. 7; Gaz. vol. 221; p. 72.
- Newbold, Eugene S., Baltimore, Md. Mechanism for lighting and extinguishing street-lamps. No. 1,142,608; June 8; Gaz. vol. 215; p. 571.
- Newbold, Harry, St. Albans, England. Eyeglass-mounting. No. 1,145,077; July 6; Gaz. vol. 216; p. 38.
- Newbold, Harry, St. Albans, assignor of one-half to W. R. Williams, London, England. Apparatus for making bifocal lenses. No. 1,158,002; Oct. 26; Gaz. vol. 213; p. 1053.
- Newburg, Burton, *et al.* (See Hammond, John W. and P. M., assignors.)
- Newburger, Stephen, New York, N. Y. Automobile safety device. No. 1,137,519; Apr. 27; Gaz. vol. 213; p. 1340.
- Newbury, Henry F., New York, N. Y., assignor to Elevator Supply & Repair Company. Signal apparatus. No. 1,132,605; Mar. 23; Gaz. vol. 212; p. 1091.
- Newbury, Henry F., New York, N. Y., assignor to Elevator Supply & Repair Company. Signal apparatus. No. 1,132,606; Mar. 23; Gaz. vol. 212; p. 1091.
- Newcomb, Edward C., North Scituate, Mass., assignor to Newcomb Engine Company, New York, N. Y. Internal-combustion engine. No. 1,139,898; May 18; Gaz. vol. 214; p. 839.
- Newcomb Engine Company. (See Newcomb, Edward C., assignor.)
- Newcomb, Harold A., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric immersion-heater. No. 1,158,539; Nov. 2; Gaz. vol. 220; p. 47.
- Newcomb, Horace C., Philadelphia, Pa. Stuffed fruit. No. 1,133,054; Mar. 23; Gaz. vol. 212; p. 1258.
- Newcomb, William W., New York, N. Y., assignor to The McCall Company. Composite-picture machine. No. 1,133,311; Mar. 30; Gaz. vol. 212; p. 1383.
- Newcomer, Martin, New York, N. Y. Piano-player. No. 1,131,074; Mar. 9; Gaz. vol. 212; p. 462.
- Newcomer, Martin, New York, N. Y., assignor to Volotone Company, Elizabeth, N. J. Pneumatic device for musical instruments. No. 1,130,101; Mar. 2; Gaz. vol. 212; p. 90.
- Newcomer, Martin, New York, N. Y., assignor to Volotone Company, Elizabeth, N. J. Player-piano. No. 1,152,540; Sept. 7; Gaz. vol. 218; p. 59.
- Newdick, Norton A., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Cable-reeling mechanism for electric locomotives. No. 1,125,152; Jan. 19; Gaz. vol. 210; p. 765.
- Newell, Albert N., Springfield, Mass. Button. No. 1,164,744; Dec. 21; Gaz. vol. 221; p. 788.
- Newell, Allen, Decatur, Tex. Cotton-loader. No. 1,138,007; May 4; Gaz. vol. 214; p. 99.
- Newell, Atwood M. (See Foight and Newell.)
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Friction draft-gear. No. 1,141,138; June 1; Gaz. vol. 215; p. 16.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Friction draft-gear. No. 1,165,622; Dec. 28; Gaz. vol. 221; p. 1134.
- Newell, Emerson R., New York, N. Y., assignor to Elevator Supply & Repair Company, Chicago, Ill. Elevator signaling system. No. 1,132,607; Mar. 23; Gaz. vol. 212; p. 1092.
- Newell, Emerson R., New York, N. Y., assignor to Elevator Supply & Repair Company, Chicago, Ill. Elevator signaling apparatus. No. 1,160,315; Nov. 16; Gaz. vol. 220; p. 754.
- Newell, Harry W. (See Cratty and Newell.)
- Newell, Hattie L., assignor of one-half to E. S. Wiggins, Paris, Tenn. Hanger for electric lamps. No. 1,163,444; Dec. 7; Gaz. vol. 221; p. 249.
- Newell, Warren P., Horton, Kans. Broom. No. 1,153,104; Sept. 7; Gaz. vol. 218; p. 262.
- Newey, Edwin. (See Garrett, Frederick W., assignor.)
- Newforth, Frank, Jr., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. (Re-issue.) No. 13,901; Apr. 13; Gaz. vol. 213; p. 714.
- Newhall, Cebert H., Philadelphia, Pa. Bottle-closure. No. 1,126,065; Jan. 26; Gaz. vol. 210; p. 1124.
- Newhall, Ezra A., assignor of one-fifth to S. Bent, Philadelphia, Pa. Vacuum evaporating apparatus. No. 1,149,939; Aug. 10; Gaz. vol. 217; p. 623.
- Newhall, Henry B. (See Pleister, Henry W., assignor.)
- Newhall, Henry B. (See Shepherd, Paul, and Pleister, assignors.)
- Newhall, Henry B. (See Upson and Pleister, assignors.)
- Newhall, Henry B., Jr., Plainfield, N. J., and E. N. Hescock, Brooklyn, N. Y.; said Hescock assignor to Garwood Company, Garwood, N. J. Protection against torpedoes, &c. No. 1,151,607; Aug. 31; Gaz. vol. 217; p. 1366.
- Newhall, Louis E., deceased; M. A. Varney, administratrix, assignor of one-half to C. E. Varney, South Framingham, Mass. Combination music-desk and table. No. 1,135,543; Apr. 13; Gaz. vol. 213; p. 560.
- Newhall, Walter S., Cleveland, Ohio. Flangeway-guard for highway-crossings. No. 1,130,996; Mar. 9; Gaz. vol. 212; p. 435.
- Newhall, Walter S., Cleveland, Ohio. Flangeway-guard for highway-crossings. No. 1,130,997; Mar. 9; Gaz. vol. 212; p. 436.
- Newhold, Harry, Holywell, St. Albans, England. Apparatus for the production of toric or toroidal surfaces of spectacle and eyeglass lenses. No. 1,154,199; Sept. 21; Gaz. vol. 218; p. 717.
- Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Revolving grizzly. No. 1,135,606; Apr. 13; Gaz. vol. 213; p. 583.
- Newhouse, Ray C., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Roll-crusher. No. 1,137,418; Apr. 27; Gaz. vol. 213; p. 1307.
- Newhouse, Ray C., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Automatic support for rotary kilns. No. 1,146,590; July 13; Gaz. vol. 216; p. 587.
- Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Crusher-mantle. No. 1,151,119; Aug. 24; Gaz. vol. 217; p. 1153.
- Newitt, Edward, Fitchburg, Mass. Boring-bar. No. 1,143,988; June 22; Gaz. vol. 215; p. 1114.
- Newland, Charles L., Merton, England. Flushing-cistern. No. 1,132,608; Mar. 23; Gaz. vol. 212; p. 1092.
- Newlands, John C., *et al.* (See Kenney, Gerald, assignor.)
- Newman, Arthur E., Shegmandah, Ontario, Canada. Switch. No. 1,150,698; Aug. 17; Gaz. vol. 217; p. 951.
- Newman, Arthur S., Highgate, assignor of one-third to T. H. Bolam and one-third to S. N. Barnard, West Ealing, England. Cinematograph apparatus. No. 1,144,774; June 29; Gaz. vol. 215; p. 1416.
- Newman, Charles H., Brooklyn, N. Y. Ironing-board support. No. 1,147,538; July 20; Gaz. vol. 216; p. 937.
- Newman, Charles M. (See Stephenson and Drapalik, assignors.)
- Newman, Christian M. (See Richards, Frank W., assignor.)
- Newman Clock Company. (See Jenkins, Charles H., assignor.)
- Newman Clock Company. (See Renshaw and Jenkins, assignors.)
- Newman, David J., Buffalo, N. Y. Combination-lock. No. 1,136,357; Apr. 20; Gaz. vol. 213; p. 887.
- Newman, Eugene, and L. A. Seppi, Brea, Cal. Valve-grinding machine. No. 1,131,611; Mar. 9; Gaz. vol. 212; p. 647.
- Newman, Henry L., Marblehead, Ohio. Trousers-supporting device. No. 1,152,204; Aug. 31; Gaz. vol. 217; p. 1571.
- Newman, Horatio H. (See Smith, John R., assignor.)
- Newman, John G., Milson's Point, Sydney, New South Wales, Australia. Igniting device for internal-combustion engines. No. 1,147,811; July 27; Gaz. vol. 216; p. 1058.
- Newman, Martin F. (See Greth and Newman.)
- Newman, William G., Ogden, Utah. Adjustable table for wire-cloth racks. No. 1,133,055; Mar. 23; Gaz. vol. 212; p. 1258.
- Newman, William G., Ogden, Utah. Screen-wire-cloth rack. No. 1,144,280; June 22; Gaz. vol. 215; p. 1201.
- Newman, William G., Ogden, Utah. Wire-cloth rack. No. 1,147,115; July 20; Gaz. vol. 216; p. 789.
- Newman, William J., Chicago, Ill. Apparatus for transporting and dumping material. No. 1,134,151; Apr. 6; Gaz. vol. 213; p. 24.
- Newman, William J., Chicago, Ill. Light for wells or caissons. No. 1,134,959; Apr. 6; Gaz. vol. 213; p. 312.
- Newman, William J., Chicago, Ill. Trap-door for discharge-openings. No. 1,143,852; June 22; Gaz. vol. 215; p. 1067.
- Newmann, John, Brooklyn, N. Y. Roller-bearing. No. 1,159,072; Nov. 2; Gaz. vol. 220; p. 228.
- Newpher, Alfred H., Chicago, Ill., assignor to The Adams & Westlake Company. Sash-fastener. No. 1,139,706; May 18; Gaz. vol. 214; p. 772.
- Newsom, James W. (See Lanier and Newsom.)
- Newsom, John F., Palo Alto, Cal. Placer concentrating machine. No. 1,127,667; Feb. 9; Gaz. vol. 211; p. 388.
- Newsom, Joseph N., assignor to St. Louis Pneumatic Valve Company, St. Louis, Mo. Valve for pneumatic tires. No. 1,129,585; Feb. 23; Gaz. vol. 211; p. 1147.
- Newsom, Willie E., Portland, Ore. Kettle-cover. No. 1,126,066; Jan. 26; Gaz. vol. 210; p. 1125.
- Newton, Albert S., Providence, R. I. Door-buffer. No. 1,126,836; Feb. 2; Gaz. vol. 211; p. 62.
- Newton, Byron, Fort Collins, Colo. Beet and grain drill attachment. No. 1,134,894; Apr. 6; Gaz. vol. 213; p. 290.
- Newton Company, The. (See Gallivan, Frank B., assignor.)
- Newton Cut Wheat Cereal and Trading Company. (See Cox, Ezekiel B., assignor.)
- Newton, Edward T. (See Blanchard, Leon E., assignor.)
- Newton, Henry C. (See Michell and Newton.)
- Newton Incubator Corporation. (See Watson, Harold L., assignor.)

- Newton, Richard T., and I. M. Upperco, Newark, N. J. Internal-combustion or explosive engine. No. 1,125,375; Jan. 19; Gaz. vol. 210; p. 847.
- Newton, Richard T., Nutley, and I. M. Upperco, Newark, N. J. Internal-combustion engine. No. 1,125,376; Jan. 19; Gaz. vol. 210; p. 848.
- Newton, Richard T., Nutley, and I. M. Upperco, Newark, N. J. Internal-combustion engine. No. 1,148,118; July 27; Gaz. vol. 216; p. 1170.
- Newton, Robert G. (See Taylor and Newton.)
- Newton, William G., assignor to The Peck Bros. & Co., New Haven, Conn. Waste-pipe valve for bath-tubs. No. 1,134,549; Apr. 6; Gaz. vol. 213; p. 170.
- Newton, William G., assignor to The Peck Bros. & Co., New Haven, Conn. Valve for seat-action water-closets. No. 1,138,241; May 4; Gaz. vol. 214; p. 181.
- Newton, William G., assignor to The Peck Bros. & Co., New Haven, Conn. Bath or basin waste. No. 1,155,085; Sept. 28; Gaz. vol. 218; p. 1052.
- Ney, Charles W., deceased; S. B. Ney, administrator, Schuylkill Haven, Pa. Washing-machine. No. 1,132,484; Mar. 16; Gaz. vol. 212; p. 959.
- Ney, Jacob, Jr., and R. Stege, Cal. Celery-bleaching device. No. 1,124,640; Jan. 12; Gaz. vol. 210; p. 549.
- Ney Manufacturing Company, The. (See Trabue, Luther, assignor.) (Reissue.)
- Ney, Rosa. (See Ney, Jacob, Jr., and R.)
- Ney, Samuel B., administrator. (See Ney, Charles W.)
- Ney, Valentine L., et al. (See Klink, Frederick R., assignor.)
- Neydhart, Francis S., West Hoboken, N. J. Window-cleaner. No. 1,142,609; June 8; Gaz. vol. 215; p. 571.
- Neuer, Josef, Zurich, Switzerland. Automatic door-closer. No. 1,129,712; Feb. 23; Gaz. vol. 211; p. 1188.
- Neznalski, Josef, and J. Maslanik, McKees Rocks, Pa. Motor-vehicle. No. 1,157,174; Oct. 19; Gaz. vol. 219; p. 701.
- Niagara Alkali Company. (See Suchy, Alfred V., assignor.)
- Niagara Box Factory. (See Wolf, George, assignor.)
- Nibbe, George W. (See Smith and Nibbe.)
- Nice, Budd G. (See Beemer, Frank, assignor.)
- Nice, Budd G., Ogontz, Pa. Ball-bearing. No. 1,147,116; July 20; Gaz. vol. 216; p. 789.
- Nice, Frank R., Lansing, Mich. Picture-hanger. No. 1,163,445; Dec. 7; Gaz. vol. 221; p. 249.
- Nice, Fredrick J., Pontiac, Mich. Hydrocarbon-burner. No. 1,149,673; Aug. 10; Gaz. vol. 217; p. 529.
- Nicewarner, Edward S., Chicago, Ill. Laminated tube. No. 1,164,303; Dec. 14; Gaz. vol. 221; p. 593.
- Nicewarner, Edward S., Chicago, Ill. Laminated tube. No. 1,164,304; Dec. 14; Gaz. vol. 221; p. 593.
- Nichol, J. L. (See Williams, Mattie, assignor.)
- Nichol, John C., Perth, Ontario, Canada. Jar-closure or the like. No. 1,153,563; Sept. 14; Gaz. vol. 218; p. 465.
- Nichol, John C., Perth, Ontario, Canada. Combined window-sash holder and lock. No. 1,153,564; Sept. 14; Gaz. vol. 218; p. 465.
- Nichol, Robert S., Brookings, Saskatchewan, Canada. Traction-wheel scraper. No. 1,156,248; Oct. 12; Gaz. vol. 219; p. 345.
- Nicholas, Alfonso L., Forres, Saskatchewan, Canada. Log peeler and cant-hook. No. 1,160,439; Nov. 16; Gaz. vol. 220; p. 797.
- Nicholas, George H., New York, N. Y. Shirt. No. 1,164,386; Dec. 14; Gaz. vol. 221; p. 623.
- Nicholas Power Company. (See Power, Nicholas, assignor.)
- Nicholas, Robert G., Clyde, Kans. Display-rack. No. 1,126,837; Feb. 2; Gaz. vol. 211; p. 62.
- Nicholas, Robert G., Clyde, Kans. Display-rack. No. 1,161,955; Nov. 30; Gaz. vol. 220; p. 1427.
- Nicholas, William, Hook, New Zealand. Hydraulic ram. No. 1,148,982; Aug. 3; Gaz. vol. 217; p. 176.
- Nicholls, Emma B., Philadelphia, Pa. Canopy. No. 1,143,774; June 22; Gaz. vol. 215; p. 1040.
- Nicholls, Henry J., St. Paul, Minn., assignor to National Chemical Company, Syracuse, N. Y. Starching-machine. No. 1,124,506; Jan. 12; Gaz. vol. 210; p. 500.
- Nicholls, Joseph P., Denver, Colo. Spring-seat. No. 1,137,656; Apr. 27; Gaz. vol. 213; p. 1385.
- Nichols, A. E. (See Jennings, Charles A., assignor.)
- Nichols, Aaron S., New York, N. Y. Lumber-drier. No. 1,138,136; May 4; Gaz. vol. 214; p. 147.
- Nichols, Aaron S., New York, N. Y. Means for shifting closures. No. 1,138,137; May 4; Gaz. vol. 214; p. 147.
- Nichols, Aaron S., New York, N. Y. Lumber-drying apparatus. No. 1,140,762; May 25; Gaz. vol. 214; p. 1175.
- Nichols Aeroplane Company, The. (See Nichols, Charles B., assignor.)
- Nichols, Almon B., Burr Oak, Mich. Fish-line reel. No. 1,125,377; Jan. 19; Gaz. vol. 210; p. 848.
- Nichols, Blanche S., New Britain, Conn. Cuff. No. 1,161,511; Nov. 23; Gaz. vol. 220; p. 1226.
- Nichols, C. Clinton. (See Tyrell, Warren A., assignor.)
- Nichols, Charles B., Washington, D. C., assignor to The Nichols Aeroplane Company. Heavier-than-air flying machine. No. 1,134,750; Apr. 6; Gaz. vol. 213; p. 246.
- Nichols, Charles W. (See Blardone, Nichols, and Bruguere.)
- Nichols, Elmer P., assignor to Lacene Manufacturing Company, Manchester, N. H. Machine for evening and grading cut soles and the like. No. 1,130,321; Mar. 2; Gaz. vol. 212; p. 166.
- Nichols, Elmer P., assignor to Lacene Manufacturing Company, Manchester, N. H. Machine for evening and grading cut soles and the like. No. 1,162,387; Nov. 30; Gaz. vol. 220; p. 1575.
- Nichols, Eugene M., Philadelphia, Pa. Scraping-machine for filter-beds. No. 1,150,876; Aug. 24; Gaz. vol. 217; p. 1071.
- Nichols, Fred A., Rattle Creek, Mich. Wheel-balancing apparatus. No. 1,158,712; Nov. 2; Gaz. vol. 220; p. 105.
- Nichols, Fredrick Y., Chicago, Ill. Making valve-packing. No. 1,162,384; Nov. 30; Gaz. vol. 220; p. 1574.
- Nichols, George S., Freeport, Me. Wheelbarrow. No. 1,154,536; Sept. 21; Gaz. vol. 218; p. 833.
- Nichols, Harrison S., Oakes, N. D. Plant-protector. No. 1,125,378; Jan. 19; Gaz. vol. 210; p. 848.
- Nichols, Herbert B., South Norwalk, Conn. Washer for photographic films and prints. No. 1,136,705; Apr. 20; Gaz. vol. 213; p. 1012.
- Nichols, Herbert B., assignor of one-half to H. C. Doughty, Methuen, Mass. Liquid-soap-dispensing device. No. 1,165,279; Dec. 21; Gaz. vol. 221; p. 975.
- Nichols, Howard M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Process of and apparatus for sprinkling roads. No. 1,137,077; Apr. 27; Gaz. vol. 213; p. 1181.
- Nichols, Ida P., Ithaca, N. Y. Oil-shield for sewing-machines. No. 1,165,439; Dec. 28; Gaz. vol. 221; p. 1070.
- Nichols, James S., Atlanta, Ga. Combined water and air heater. No. 1,135,911; Apr. 13; Gaz. vol. 213; p. 689.
- Nichols, Jesse W., Chicago, Ill. Applying vent-shields to can-caps. No. 1,126,838; Feb. 2; Gaz. vol. 211; p. 62.
- Nichols, Jesse W., Chicago, Ill. Can-cap with vent-shield. No. 1,141,973; June 8; Gaz. vol. 215; p. 347.
- Nichols, John F., San Francisco, Cal. Egg-boiler. No. 1,137,657; Apr. 27; Gaz. vol. 213; p. 1385.
- Nichols, John S. (See Nichols, Theodore J., assignor.)
- Nichols, Louis C. (See Bosen and Nichols.)
- Nichols, Louis C., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Transformer. No. 1,131,258; Mar. 9; Gaz. vol. 212; p. 525.
- Nichols, Louis C., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Transformer. No. 1,140,843; May 25; Gaz. vol. 214; p. 1204.
- Nichols, Louis C., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Transformer. No. 1,143,305; June 15; Gaz. vol. 215; p. 804.
- Nichols, Nelson D., Minneapolis, Minn. Key-holder. No. 1,148,398; July 27; Gaz. vol. 216; p. 1268.
- Nichols, Perry J., Walsenburg, assignor of one-sixteenth to W. H. Doyle and one-sixteenth to H. Olsen, Telluride, Colo. Detachable sleeve and armet therefor. No. 1,149,674; Aug. 10; Gaz. vol. 217; p. 529.
- Nichols, Robert F., Oakland, Cal. Casement-window. No. 1,143,059; June 15; Gaz. vol. 215; p. 768.
- Nichols, Robert M., assignor of one-fourth to T. Williams, San Francisco, and one-fourth to W. S. Chapman, Oakland, Cal. Pump. No. 1,153,816; Sept. 14; Gaz. vol. 218; p. 552.
- Nichols, Robert P. (See Browne and Nichols.)
- Nichols, Robert P. (See Lovekin, Ramsburg, and Nichols.)
- Nichols, Robert P. (See Pletzsch and Nichols.)
- Nichols, Robert P., Philadelphia, Pa. Automobile-lock. No. 1,126,262; Jan. 26; Gaz. vol. 210; p. 1197.
- Nichols, Theodore J., assignor of one-half to J. S. Nichols, Bellevue, Tex. Carbureter. No. 1,156,924; Oct. 19; Gaz. vol. 219; p. 612.
- Nichols, Thomas F., Phoenix, Ariz. Solar boiler. No. 1,162,505; Nov. 30; Gaz. vol. 220; p. 1617.
- Nichols, Walter W., Melrose, Mass. Measuring and dispensing apparatus. No. 1,129,002; Feb. 16; Gaz. vol. 211; p. 908.
- Nichols, Wesley G., Chicago Heights, Ill., assignor to Edgar Allen American Manganese Steel Company, Augusta, Me. Railway-crossing. No. 1,127,495; Feb. 9; Gaz. vol. 211; p. 333.
- Nichols, William H., Bennington, Vt. Insulator. No. 1,144,153; June 22; Gaz. vol. 215; p. 1174.
- Nichols, William W., San Francisco, Cal. Mattress. No. 1,132,869; Mar. 23; Gaz. vol. 212; p. 1189.
- Nicholson, Albert, Neal, Kans. Device for topping kafir corn. No. 1,125,379; Jan. 19; Gaz. vol. 210; p. 849.
- Nicholson, James, Sacramento, Cal. Automobile-signal. No. 1,165,117; Dec. 21; Gaz. vol. 221; p. 919.
- Nicholson, John H., Pittsburgh, Pa. Splining apparatus. No. 1,157,323; Oct. 19; Gaz. vol. 219; p. 754.
- Nicholson, Joseph B., Steubenville, Ohio. Machine for manufacturing ribbed paving-blocks. No. 1,148,529; Aug. 3; Gaz. vol. 217; p. 16.
- Nicholson, Joseph B., Steubenville, Ohio. Machine for manufacturing ribbed and hillside paving-blocks. No. 1,161,956; Nov. 30; Gaz. vol. 220; p. 1427.

Alphabetical list of patentees—Continued.

- Nicholson, Norman J., Revere, assignor of one-half to N. C. Bohr, deceased, Boston, Mass.; H. B. Bohr, administrator. Insole-tempering device. No. 1,133,879; Mar. 30; Gaz. vol. 212; p. 1588.
- Nicholson, Percival, Ardmore, Pa. Sphygmomanometer. No. 1,134,632; Apr. 6; Gaz. vol. 213; p. 200.
- Nicht, Alexander J., Chicago, Ill., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Safety stop mechanism. No. 1,163,029; Dec. 7; Gaz. vol. 221; p. 103.
- Nichthaus & Levy. (See Nichthaus, William, assignor.)
- Nichthaus, Maud S., executrix. (See Nichthaus, William.)
- Nichthaus, William, deceased, New York, N. Y.; M. S. Nichthaus, executrix, assignor to Nichthaus & Levy. Sifter. No. 1,137,886; May 4; Gaz. vol. 214; p. 57.
- Nick, Edwin W. (See Hayes, Harvey C., assignor.)
- Nickel, Charles F. (See Graf and Nickel.)
- Nickels, Griffin. (See Lavender and Nickels.)
- Nickels, L. B., *et al.* (See Kenison and Neely, assignors.)
- Nickelsen, Jess, and M. Thompson, Kenmare, N. D. Washing-machine. No. 1,147,260; July 20; Gaz. vol. 216; p. 839.
- Nickerson, Charles H., Derry, N. H. Lasting-shell and upper-protector. No. 1,134,284; Apr. 6; Gaz. vol. 213; p. 74.
- Nickerson, William E., Cambridge, Mass. Hardening steel. No. 1,129,113; Feb. 23; Gaz. vol. 211; p. 982.
- Nickerson, William E., Cambridge, Mass., assignor to Gillette Safety Razor Company, Portland, Me. Grinding-machine. No. 1,126,839; Feb. 2; Gaz. vol. 211; p. 63.
- Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Hardening apparatus for thin steel articles. No. 1,129,112; Feb. 23; Gaz. vol. 211; p. 982.
- Nickerson, William E., Cambridge, assignor to E. D. Chadwick, trustee, Winchester, Mass. Ignition-timing device for internal-combustion motors. No. 1,139,707; May 18; Gaz. vol. 214; p. 772.
- Nickerson, William E., Cambridge, assignor to E. D. Chadwick, trustee, Winchester, Mass. Antirattling device for leaf springs. No. 1,163,621; Dec. 7; Gaz. vol. 221; p. 310.
- Nicklin, Albert E., Goodmayes, England, assignor, by mesne assignments, to M. M. Schwarzschild, New York, N. Y. Device for making damp-sand bricks and the like. No. 1,140,391; May 25; Gaz. vol. 214; p. 1047.
- Nicklin, Perry A. (See Haller, William H., assignor.)
- Nickol, Frederick C., assignor of one-half to E. H. Ziebler, Dayton, Ohio. Shingle-bracket. No. 1,152,118; Aug. 31; Gaz. vol. 217; p. 1542.
- Nickol, Frederick C., assignor of forty-nine one-hundredths to W. H. McBarron, Dayton, Ohio. Combined motor and pump. No. 1,161,787; Nov. 23; Gaz. vol. 220; p. 1321.
- Nickol, Frederick C., and M. C. Stern, assignors to The Egly Register Company, Dayton, Ohio. Manifolding device for autographic registers. No. 1,133,816; Mar. 30; Gaz. vol. 212; p. 1566.
- Nickolai, Carl L., De Beque, assignor of forty one-hundredths to E. W. Lloyd, Pueblo, Colo. Double-underreamer setter. No. 1,157,577; Oct. 19; Gaz. vol. 219; p. 841.
- Nicodemus, Anna, Chicago, Ill. Bodkin. No. 1,149,397; Aug. 10; Gaz. vol. 217; p. 427.
- Nicodemus, John P., and L. E. Beckley, Logansport, Ind. Covered receptacle. No. 1,137,078; Apr. 27; Gaz. vol. 213; p. 1181.
- Nicol, John M. (See Aldrich, Frank, assignor.)
- Nicol, Marvin A., Willamina, Oreg. Means for securing tires on crushing and grinding wheels, rolls, and the like. No. 1,138,399; May 4; Gaz. vol. 214; p. 240.
- Nicol, Marvin A., Willamina, Oreg. Means for lubricating bearing-surfaces. No. 1,140,056; May 18; Gaz. vol. 214; p. 896.
- Nicol, Richard W., Chicago, Ill. Child's locomotive-coaster. No. 1,145,209; July 6; Gaz. vol. 216; p. 81.
- Nicol, William M., Hildebrand, Saskatchewan, Canada. Attachment to binders. No. 1,130,757; Mar. 9; Gaz. vol. 212; p. 354.
- Nicolaides, Nicolas J., Bourgas, Bulgaria. Apparatus for loading ships and for discharging cargo therefrom. No. 1,150,699; Aug. 17; Gaz. vol. 217; p. 952.
- Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Lighter for gas-stoves. No. 1,137,520; Apr. 27; Gaz. vol. 213; p. 1340.
- Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Lighter for gas-stoves. No. 1,143,060; June 15; Gaz. vol. 215; p. 768.
- Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Stove-door hinge. No. 1,159,254; Nov. 2; Gaz. vol. 220; p. 294.
- Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Stove-door hinge. No. 1,159,255; Nov. 2; Gaz. vol. 220; p. 295.
- Nicolaus, George W., assignor of three-fourths to W. R. Howard, J. W. Debellus and S. W. Lippincott, Baltimore, Md. Skid. No. 1,158,829; Nov. 2; Gaz. vol. 220; p. 149.
- Nicolet, Benjamin H. (See Bacon and Nicolet.)
- Nicoll, Benjamin F., New Orleans, La. Mail-bag receiving and delivering mechanism. No. 1,133,998; Mar. 30; Gaz. vol. 212; p. 1624.
- Nicoll, Konrad, Milwaukee, Wis., assignor to F. C. Austin, Chicago, Ill. Internal-combustion or explosion engine. No. 1,146,440; July 13; Gaz. vol. 216; p. 534.
- Nicoll, William B., Fort William, Ontario, Canada. Grain-car door. No. 1,128,032; Feb. 9; Gaz. vol. 211; p. 521.
- Nicolson, Alexander M. (See Van der Bijl and Nicolson.)
- Nicolson, Alexander M., Tarrytown, assignor to Western Electric Company, New York, N. Y. Audion. No. 1,130,008; Mar. 2; Gaz. vol. 212; p. 59.
- Nicolson, Alexander M., Tarrytown, assignor to Western Electric Company, New York, N. Y. Audion. No. 1,130,009; Mar. 2; Gaz. vol. 212; p. 59.
- Nicolson, Alexander M., Tarrytown, assignor to Western Electric Company, New York, N. Y. Filament for audions. No. 1,137,275; Apr. 27; Gaz. vol. 213; p. 1254.
- Nieberding, Frank A., Cleveland, Ohio. Water-heater. No. 1,127,078; Feb. 2; Gaz. vol. 211; p. 145.
- Nieberg, Alma, Brooklyn, N. Y. Thread-cutter. No. 1,134,895; Apr. 6; Gaz. vol. 213; p. 291.
- Niebling, Frederick W., assignor of one-half to C. E. Roth, Sr., Cincinnati, Ohio. Cutting-machine. No. 1,129,360; Feb. 23; Gaz. vol. 211; p. 1068.
- Nieć, Michael, St. Catharines, Ontario, Canada. Utensil-lifter. No. 1,142,198; June 8; Gaz. vol. 215; p. 428.
- Niedergaess, Robert, Seattle, Wash., assignor to American Smokeless Burner Company. Fuel-feeding apparatus. No. 1,139,708; May 18; Gaz. vol. 214; p. 773.
- Niehauser, Edward C., assignor to Tuffing Machine Supply Company, Detroit, Mich. Seat-back-cushion construction. No. 1,162,870; Dec. 7; Gaz. vol. 221; p. 48.
- Niederhauser, Frederick C., Jr. (See Kaminski and Niederhauser.)
- Niedner, Adolph O., Malden, Mass. Cleaning attachment for firearms. No. 1,133,571; Mar. 30; Gaz. vol. 212; p. 1477.
- Niedomanski, Otto W., Washington, D. C. Paper-fastening. No. 1,146,591; July 13; Gaz. vol. 216; p. 588.
- Niehoff, Henry, Bayonne, N. J. Egg-tester. No. 1,135,837; Apr. 13; Gaz. vol. 213; p. 665.
- Nield, Josiah, North Milwaukee, Wis., assignor, by mesne assignments, to W. & T. Avery Ltd., Birmingham, England. Automatic compensator for scales. No. 1,133,657; Mar. 30; Gaz. vol. 212; p. 1509.
- Niell, Magnus, Djursholm, Sweden. Plate-pack for photographic apparatus. No. 1,162,385; Nov. 30; Gaz. vol. 220; p. 1574.
- Nielsen, Frederik, Boston, Mass. Air-compressor. No. 1,127,079; Feb. 2; Gaz. vol. 211; p. 146.
- Nielsen, Jens, and P. C. Petersen, Cedar Falls, Iowa; said Petersen assignor to said Nielsen. Rotary engine. No. 1,127,668; Feb. 9; Gaz. vol. 211; p. 389.
- Nielsen, John. (See Hanshaw, Charles H., assignor.)
- Nielsen, Ole, Thornton, Iowa. Roof-scaffolding bracket. No. 1,148,919; Aug. 3; Gaz. vol. 217; p. 154.
- Nielsen, Rasmus, Troy, N. Y., assignor to The Gilchrist Company, Newark, N. J. Ice-cream spoon. No. 1,132,870; Mar. 23; Gaz. vol. 212; p. 1190.
- Nielsen, Rasmus, Troy, N. Y., assignor to The Gilchrist Company, Newark, N. J. Ice-cream spoon. No. 1,132,871; Mar. 23; Gaz. vol. 212; p. 1190.
- Nielsen, Sören, Copenhagen, Denmark. Apparatus for releasing life-boats and similar vehicles from ships. No. 1,125,380; Jan. 19; Gaz. vol. 210; p. 849.
- Nielsen, Soren, Chicago, Ill. Folding bed. No. 1,146,898; July 20; Gaz. vol. 216; p. 712.
- Nielsen, Wilhelm, Bielefeld, Germany. Manufacture of dental models. No. 1,152,964; Sept. 7; Gaz. vol. 218; p. 215.
- Nielson, Henry, Kolding, Denmark, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 1,125,153; Jan. 19; Gaz. vol. 210; p. 766.
- Nieman, Chauncy W., New York, N. Y. Recording device. No. 1,151,120; Aug. 24; Gaz. vol. 217; p. 1153.
- Niemann, Ernest B., Cummings, Kans. Rein-guard. No. 1,148,530; Aug. 3; Gaz. vol. 217; p. 16.
- Niemann, Frederick A. (See Wetmore and Niemann.)
- Niemeyer, Frederick G., Denison, Tex. Facing-blocks. No. 1,140,913; May 25; Gaz. vol. 214; p. 1231.
- Niemeyer, Frederick, Hoboken, N. J. Litho-grain printing-plate. No. 1,163,166; Dec. 7; Gaz. vol. 221; p. 151.
- Niemeyer, Frederick, Hoboken, N. J. Making metal-surface litho-grain printing-plates. No. 1,163,167; Dec. 7; Gaz. vol. 221; p. 151.
- Niemitalo, Charley. (See Adams and Niemitalo.)
- Nienstadt, August E., Bensonhurst, assignor to Specification Soap & Oil Co., Inc., New York, N. Y. Paint and varnish remover. No. 1,143,130; June 15; Gaz. vol. 215; p. 792.
- Nienstadt, August E., assignor to M. Wolfer, New York, N. Y. Color-cartridge. No. 1,155,676; Oct. 5; Gaz. vol. 219; p. 122.
- Niermeyer, Henry W., Utica, N. Y. Rib-knitting machine. No. 1,158,072; Oct. 26; Gaz. vol. 219; p. 1079.
- Niermeyer, Henry W., Indianapolis, Ind. Non-refillable bottle. No. 1,164,111; Dec. 14; Gaz. vol. 221; p. 527.

Alphabetical list of patentees—Continued.

- Nies, Ferdinand, T. Vogel, and F. Berg, Mannheim-on-the-Rhine, Germany. Device for separating liquids from gas or the like. No. 1,159,073; Nov. 2; Gaz. vol. 220; p. 229.
- Nies, Frederick H., and J. F. Caretto, New York, N. Y. Artificial tooth. No. 1,137,015; Apr. 27; Gaz. vol. 213; p. 1159.
- Nies, John D. (See Kimble and Nies.)
- Nies, Rannie, and W. Bowen, Cincinnati, Ohio. Door-fastener. No. 1,165,895; Dec. 28; Gaz. vol. 221; p. 1229.
- Nieschang, Charles C. F., Fort Wayne, Ind. Indicator. No. 1,132,282; Mar. 16; Gaz. vol. 212; p. 927.
- Nieschang, Charles C. F., Fort Wayne, Ind. Inhaler. No. 1,155,608; Oct. 5; Gaz. vol. 219; p. 98.
- Niggli, August, Rheineck, assignor to Firm of H. Levy, Rorschach, Switzerland. Screw-cutting machine. No. 1,132,026; Mar. 16; Gaz. vol. 212; p. 832.
- Nigh, Omar I., Washington, D. C. Safety device for elevators. No. 1,159,074; Nov. 2; Gaz. vol. 220; p. 229.
- Nightingale Company, The. (See Ricketts, James B., assignor.)
- Nightingale, John T., et al. (See Davidson, John E., assignor.)
- Nightingale, Joseph M., London, and E. S. Goy, Buckhurst Hill, England. Sock and stocking. No. 1,144,050; June 22; Gaz. vol. 215; p. 1137.
- Nigon, John J. (See Day, Charles, assignor.)
- Nikola, Gustave J., Glen Cove, N. Y. Portable lawn and garden sprinkler. No. 1,129,713; Feb. 23; Gaz. vol. 211; p. 1188.
- Nikolai, Peter, Mellen, Wis. Car-stake pocket. No. 1,154,719; Sept. 28; Gaz. vol. 218; p. 925.
- Nikoloff, Charley. (See Nikoloff, Kosti and C.)
- Nikoloff, Kosti and C., Detroit, Mich. Soldering-iron. No. 1,158,540; Nov. 2; Gaz. vol. 220; p. 47.
- Nikonow, John P., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety device for starting-motors. No. 1,130,010; Mar. 2; Gaz. vol. 212; p. 59.
- Niles-Bement-Pond Company. (See Keefer, Samuel H., assignor.)
- Niles-Bement-Pond Company. (See Müller, Friederich, assignor.)
- Niles, Charles A., et al. (See Cosseboom, Robert J., assignor.)
- Niles, Clifford L. (See Sinclair, George, assignor.)
- Niles, Irving F., Plainfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Delivery mechanism. No. 1,149,214; Aug. 10; Gaz. vol. 217; p. 361.
- Niles, Irving F., Plainfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,155,505; Oct. 5; Gaz. vol. 219; p. 64.
- Niles, Irving F., Plainfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism. No. 1,159,860; Nov. 9; Gaz. vol. 220; p. 543.
- Niles, Seymour M., Saugus, Mass. Hollow shoe-form. No. 1,156,429; Oct. 12; Gaz. vol. 219; p. 409.
- Niles, Walter L. C., Saugus, assignor to Excel Shoe Form Company, Lynn, Mass. Making shoe-forms. No. 1,127,080; Feb. 2; Gaz. vol. 211; p. 146.
- Nill, Conrad, Erie, Pa. Shaft-packing. No. 1,124,641; Jan. 12; Gaz. vol. 210; p. 550.
- Nilsen, Elmar, Baltimore, Md. Door-lock. No. 1,164,849; Dec. 21; Gaz. vol. 221; p. 825.
- Nilson, Carl, Ebro, Minn. Self-waiting table. No. 1,159,256; Nov. 2; Gaz. vol. 220; p. 295.
- Nilson, Harold. (See Nilson, Nils, L., and H.)
- Nilson, Joel W., Detroit, Mich. Push-rod for engines. No. 1,161,406; Nov. 23; Gaz. vol. 220; p. 1190.
- Nilson, John L., and O. G., Chicago, Ill. Safety-razor. No. 1,159,075; Nov. 2; Gaz. vol. 220; p. 229.
- Nilson, Leonard. (See Nilson, Nils, L.)
- Nilson, Leonard. (See Nilson, Nils, L., and H.)
- Nilson, Leonard. (See Nilson, Nils, L., and H.)
- Nilson, Nils, Wayzata, Minn. Traction-machine. No. 1,164,310; Dec. 14; Gaz. vol. 221; p. 596.
- Nilson, Nils and L., Wayzata, Minn. Mowing-machine. No. 1,164,305; Dec. 14; Gaz. vol. 221; p. 593.
- Nilson, Nils and L., Wayzata, Minn. Harvester. No. 1,164,306; Dec. 14; Gaz. vol. 221; p. 594.
- Nilson, Nils and L., Wayzata, Minn. Tractor. No. 1,164,307; Dec. 14; Gaz. vol. 221; p. 595.
- Nilson, Nils and L., Wayzata, Minn. Traction-plow. No. 1,164,308; Dec. 14; Gaz. vol. 221; p. 595.
- Nilson, Nils and L., Wayzata, Minn. Traction-machine. No. 1,164,309; Dec. 14; Gaz. vol. 221; p. 595.
- Nilson, Nils, L., and H., Wayzata, Minn. Mower. No. 1,145,697; July 6; Gaz. vol. 216; p. 252.
- Nilson, Olof G. (See Nilson, John L., and O. G.)
- Nilsson, Carl E., New York, N. Y. Fork-rack. No. 1,165,702; Dec. 28; Gaz. vol. 221; p. 1163.
- Nilsson, Carl O., Ravenswood, W. Va. Valve. No. 1,135,838; Apr. 18; Gaz. vol. 213; p. 665.
- Nilsson, Charles O. I., Brockton, Mass. Beet-harvester. No. 1,134,221; Apr. 6; Gaz. vol. 213; p. 50.
- Nilsson, Herman. (See Gröndal and Nilsson.)
- Nilsson, John W., Balfour, N. D. Horse-protector. No. 1,159,076; Nov. 2; Gaz. vol. 220; p. 230.
- Nimnich, Joseph. (See Tracy, Thomas H., assignor.)
- Nirdlinger, Albert P. (See Davis and Nirdlinger.)
- Nishimoto, Risaku. (See Kawano and Nishimoto.)
- Nissen, Detlev. (See Kalischer and Nissen.)
- Nissen, John P., Stapleton, N. Y., assignor to Onelda Knitting Co., Inc., Philadelphia, Pa. Stocking. No. 1,142,774; June 8; Gaz. vol. 215; p. 628.
- Nissley, Jacob H. (See Horn, Nissley, and Latimer.)
- Nissley, William M., Philadelphia, Pa. Apparatus for aerating flour. No. 1,134,757; Apr. 6; Gaz. vol. 213; p. 246.
- Nitrogen Company, The. (See Acker, Charles E., assignor.)
- Nitrogen Products Company. (See Bucher, John E., assignor.)
- Nitsche, Louis A., Tulsa, Okla. Water-supply system. No. 1,161,512; Nov. 23; Gaz. vol. 220; p. 1226.
- Nitteberg, Harold, Detroit, Mich. Tool. No. 1,149,398; Aug. 10; Gaz. vol. 217; p. 428.
- Nitz, Bruno, Berlin-Reinickendorf, assignor to Firm of W. Körting, Barmen, Germany. Plating-machine. No. 1,144,080; June 22; Gaz. vol. 215; p. 1146.
- Niven, James J., Philadelphia, Pa. Equalizing-valve. No. 1,142,117; June 8; Gaz. vol. 215; p. 400.
- Nivling, Walter A., Boston, Mass. Apparatus for sizing yarns. No. 1,153,244; Sept. 14; Gaz. vol. 218; p. 348.
- Nivling, Walter A., Boston, Mass. Sizing yarns. No. 1,153,245; Sept. 14; Gaz. vol. 218; p. 349.
- Nivois, Victor, Brooklyn, N. Y. Container. No. 1,156,019; Oct. 5; Gaz. vol. 219; p. 240.
- Nivois, Victor, Brooklyn, N. Y. Case for cigarettes. No. 1,165,996; Dec. 28; Gaz. vol. 221; p. 1264.
- Nix, Edward A., New Orleans, La. Door-hanger. No. 1,145,163; July 6; Gaz. vol. 216; p. 66.
- Nix, Edward A., Memphis, Tenn., and E. C. Roddie, New Orleans, La. Equalizing draft-gear for railway-cars. No. 1,144,231; June 22; Gaz. vol. 215; p. 1202.
- Nix, Edward A., Memphis, Tenn., and E. C. Roddie, New Orleans, La. Automatic refrigerator-car drain. No. 1,149,675; Aug. 10; Gaz. vol. 217; p. 530.
- Nix, Edward A., and E. C. Roddie, New Orleans, La. Fastening device for car-doors. No. 1,145,164; July 6; Gaz. vol. 216; p. 66.
- Nix, John E., assignor of one-fourth to A. J. Smille, Eaton, Colo. Draft attachment. No. 1,159,983; Nov. 9; Gaz. vol. 220; p. 587.
- Nixon, Benjamin F., Winnipeg, Manitoba, Canada. Shipwreck signal-indicator. No. 1,137,782; May 4; Gaz. vol. 214; p. 21.
- Nixon, George R., Pittsfield, Mass. Emergency gas cut-off. No. 1,152,338; Aug. 31; Gaz. vol. 217; p. 1618.
- Nixon, Lewis, New York, N. Y. Incendiary projectile. No. 1,153,513; Sept. 14; Gaz. vol. 218; p. 447.
- Nixon, Mordecai M., Edenton, N. C. Street-sweeper. No. 1,130,758; Mar. 9; Gaz. vol. 212; p. 354.
- Nixon, Moses C., Lima, Ohio. Baling-press. No. 1,125,381; Jan. 19; Gaz. vol. 210; p. 849.
- No-Break Egg Carrier Company, The. (See Degginger, Louis A., assignor.)
- No-Break Egg Carrier Company, The. (See Tucker, Andrew P., assignor.)
- No-Sag Gate Company. (See Benson, Axle, assignor.)
- Noak, Martin, Pittsburgh, Pa. Riveting-tool or dolly-bar. No. 1,152,205; Aug. 31; Gaz. vol. 217; p. 1571.
- Noakes, Charles A., Rock Lake, N. D. Horse-whipping device. No. 1,158,264; Oct. 26; Gaz. vol. 219; p. 1145.
- Noakes, Clifton F., Portland, Ore. Post-anchor. No. 1,133,496; Mar. 30; Gaz. vol. 212; p. 1449.
- Noakes, Robert S., London, England. Support or adjuster for soft collars. No. 1,133,880; Mar. 30; Gaz. vol. 212; p. 1589.
- Noakes, Thomas A., Dixon, Nebr. Breast-yoke-strap slide. No. 1,146,648; July 13; Gaz. vol. 216; p. 606.
- Noble, Boughton T. (See Todd and Noble.)
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,128,491; Feb. 16; Gaz. vol. 211; p. 728.
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,133,572; Mar. 30; Gaz. vol. 212; p. 1477.
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Eyelet-sewing machine. No. 1,139,437; May 11; Gaz. vol. 214; p. 641.
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Needle-guard for sewing-machines. No. 1,155,086; Sept. 28; Gaz. vol. 218; p. 1052.
- Noble, E. L. (See Noble, James A., assignor.)
- Noble, Edward J., New York, N. Y. Felting device. No. 1,145,917; July 13; Gaz. vol. 216; p. 349.
- Noble, Edward J., New York, N. Y. Water-expressing machine. No. 1,146,810; July 20; Gaz. vol. 216; p. 682.
- Noble, Edward J., New York, N. Y. Mold for plastic materials. No. 1,146,811; July 20; Gaz. vol. 216; p. 682.
- Noble, Edward J., New York, N. Y. Molding or shaping machine. No. 1,146,812; July 20; Gaz. vol. 216; p. 685.
- Noble, George W., New York, N. Y., assignor to John Simmons Company. Incased concrete piling. No. 1,127,081; Feb. 2; Gaz. vol. 211; p. 147.
- Noble, James A., New York, assignor to E. L. Noble, Brooklyn, N. Y. Hand-operated car-brake. No. 1,156,849; Oct. 12; Gaz. vol. 219; p. 556.

Alphabetical list of patentees—Continued.

- Noble, James A., assignor to Noble & Wood Machine Company, Hoosick Falls, N. Y. Attachment for beating-engines and other stuff-working machines. No. 1,165,118; Dec. 21; Gaz. vol. 221; p. 920.
- Noble, James C., Cleveland, Ohio. Running-gear construction and transmission device. No. 1,159,703; Nov. 9; Gaz. vol. 220; p. 485.
- Noble, Warren, Orchard Lake, Mich., assignor to Sangamo Electric Company, Springfield, Ill. Mechanism for regulating the charging rate of storage batteries. No. 1,157,028; Oct. 19; Gaz. vol. 219; p. 650.
- Noble, William A. E., Los Angeles, Cal. Case for disk records. No. 1,136,256; Apr. 20; Gaz. vol. 213; p. 852.
- Noble, William B., Rochelle, Ill. Piano bench and cabinet. No. 1,165,200; Dec. 21; Gaz. vol. 221; p. 948.
- Noble & Wood Machine Company. (See Noble, James A., assignor.)
- Nobles, Claude R., St. John, New Brunswick, Canada. Sash-holder. No. 1,157,797; Oct. 26; Gaz. vol. 219; p. 981.
- Noblitt, Reuben M., Oklahoma, Okla. Animal-poke. No. 1,136,970; Apr. 27; Gaz. vol. 213; p. 1142.
- Noce, Frank F., Lester, W. Va. Gutter. No. 1,141,204; June 1; Gaz. vol. 215; p. 40.
- Nock, Charles, Youngstown, Ohio. Bonnet for hot-air valves. No. 1,144,664; June 29; Gaz. vol. 215; p. 1376.
- Noderer, Robert J. (See Kerbel, Frederick J., assignor.)
- Noe, Seaman P., Ocean Grove, N. J. Maximum-pressure safety inflating tire-gage. No. 1,137,521; Apr. 27; Gaz. vol. 213; p. 1341.
- Noechel, Frank J., Rochester, N. Y. Corn-husking machine. No. 1,149,280; Aug. 10; Gaz. vol. 217; p. 385.
- Noennig, Ernst, Wittenberg, Mo. Animal-releasing device. No. 1,139,563; May 18; Gaz. vol. 214; p. 721.
- Noesting Pin Ticket Company, The. (See Dunham, William G., assignor.)
- Noggle, Perry L. (See Shuck, Matilda J., assignor.)
- Noggle, Sherman W., Kansas City, Mo. Dough mixing and kneading machine. No. 1,153,246; Sept. 14; Gaz. vol. 218; p. 349.
- Nogrady, An Dor T., assignor to Double Drive Differential Company, Kansas City, Mo. Differential gearing for automobiles. No. 1,140,312; May 18; Gaz. vol. 214; p. 983.
- Noiseless Typewriter Company, The. (See Anderson, Nils H., assignor.)
- Noiseless Typewriter Company, The. (See Clark, Edward L. C., assignor.)
- Noiseless Typewriter Company, The. (See Kidder, Wellington P., assignor.)
- Noiseless Typewriter Company, The. (See Lorenz, William A., assignor.)
- Noiseless Typewriter Company, The. (See Metzroth, William, assignor.)
- Noiseless Typewriter Company, The. (See Ronchetti, Joseph A., assignor.)
- Nolan, Cornelius J., assignor to The Libbey Glass Company, Toledo, Ohio. Annealing-furnace. No. 1,125,154; Jan. 19; Gaz. vol. 210; p. 766.
- Nolan, Edward E., Chicago, Ill. Tubular receptacle. No. 1,130,322; Mar. 2; Gaz. vol. 212; p. 167.
- Nolan, Edward H., Cincinnati, Ohio. Supply-valve. No. 1,147,639; July 20; Gaz. vol. 216; p. 973.
- Nolan, Edward J., Brooklyn, N. Y. Fuel-oil burner. No. 1,158,541; Nov. 2; Gaz. vol. 220; p. 47.
- Nolan, James A., Bowerston, Ohio. Automatic car-cage. No. 1,144,374; June 29; Gaz. vol. 215; p. 1280.
- Nolan, Michael C., Bromsgrove, England. Horseshoe. No. 1,130,834; Mar. 9; Gaz. vol. 212; p. 380.
- Nolan, Michael R., *et al.* (See Judick, Richard W., assignor.)
- Nolan, Oliver, St. Paul, Minn. Machine for molding concrete building-blocks. No. 1,151,531; Aug. 24; Gaz. vol. 217; p. 1293.
- Nolan, William F. (See Slatten and Nolan.)
- Nolln, Henry, Providence, R. I. Clip for tentering-machines. No. 1,143,989; June 22; Gaz. vol. 215; p. 1114.
- Nolinsky, Albert J. (See Bragdon, Herbert J., assignor.)
- Noll, Jacob M., Collingswood, N. J., assignor to Warren Webster & Company. Apparatus for purifying water. No. 1,148,920; Aug. 3; Gaz. vol. 217; p. 154.
- Noll, Jacob M., Collingswood, N. J., and F. J. Miller, Philadelphia, Pa., assignors to Warren Webster & Company. Separator for feed-water heaters. No. 1,134,633; Apr. 6; Gaz. vol. 213; p. 200.
- Noller, Karl, assignor of one-half to F. Kersten, Detroit, Mich. Filter-pulp-washing machine. No. 1,129,419; Feb. 23; Gaz. vol. 211; p. 1089.
- Nollner, Harry N., Washington, D. C. Crochet-thread holder. No. 1,144,775; June 29; Gaz. vol. 215; p. 1416.
- Nolte, Christian F., New York, N. Y. Ash-sifter. No. 1,154,932; Sept. 28; Gaz. vol. 218; p. 997.
- Nolte, Frank F., assignor of one-half to J. B. Windle, Bedford, Iowa. Lifter for marker-bars of planters. No. 1,134,634; Apr. 6; Gaz. vol. 213; p. 201.
- Nolte, Willis C., Dazey, N. D. Gate-binge. No. 1,126,067; Jan. 26; Gaz. vol. 210; p. 1125.
- Nolze, William F., and P. W. Foltz, Chillicothe, Ohio. Ground implement. No. 1,127,917; Feb. 9; Gaz. vol. 211; p. 480.
- Nomoto, Tsunejiro, Seattle, Wash. Combination salt-cellar and pepper-box. No. 1,164,387; Dec. 14; Gaz. vol. 221; p. 623.
- Nonn, John. (See Standfest, George, assignor.)
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,150,220; Aug. 17; Gaz. vol. 217; p. 785.
- Nonnenbacher, G. T., *et al.* (See Erickson, Arthur F., assignor.)
- Nonnenbruch, Otto H., New Rochelle, N. Y., assignor to De La Vergne Machine Co. Automatic liquid-separator. No. 1,162,185; Nov. 30; Gaz. vol. 220; p. 1506.
- Nonotuck Silk Company. (See Shearn, Joseph H., assignor.)
- Noon, Herbert E., Newark, N. J., assignor to The Singer Manufacturing Company. Needle-straightening machine. No. 1,125,706; Jan. 19; Gaz. vol. 210; p. 965.
- Noon, John J. (See Rennie, James, assignor.)
- Noonan, John J., St. Louis, Mo. Lathe-tool holder. No. 1,128,714; Feb. 16; Gaz. vol. 211; p. 805.
- Noonan, John J., Union City, Tenn. Insect-trap. No. 1,158,542; Nov. 2; Gaz. vol. 220; p. 48.
- Noonan, Patrick T., Noonan, N. D. Gambrel. No. 1,159,528; Nov. 9; Gaz. vol. 220; p. 421.
- Noppe, Henry, and R. Ike, Grand Rapids, Mich. Broom. No. 1,144,309; June 22; Gaz. vol. 215; p. 1229.
- Norbo, Elven, Cashton, Wis. Broom-head. No. 1,124,507; Jan. 12; Gaz. vol. 210; p. 500.
- Norcross, Orlando W., Worcester, Mass. Concrete floor construction. No. 1,133,658; Mar. 30; Gaz. vol. 212; p. 1509.
- Nordberg, Bruno V., Milwaukee, Wis. Variable-capacity compressed-air engine. No. 1,138,886; May 11; Gaz. vol. 214; p. 448.
- Nordberg, Bruno V., Milwaukee, Wis. Engine. No. 1,157,029; Oct. 19; Gaz. vol. 219; p. 650.
- Nordberg, Bruno V., Milwaukee, Wis. Compression-controlling mechanism for engines. No. 1,157,030; Oct. 19; Gaz. vol. 219; p. 651.
- Nordeen, August, Connersville, Ind., assignor, by mesne assignments, to L. Maxwell, Cincinnati, Ohio. Sectional accounting device. No. 1,126,650; Jan. 26; Gaz. vol. 210; p. 1337.
- Norden, Carl S., Wakefield, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for imparting flexibility to the soles of boots and shoes. No. 1,150,143; Aug. 17; Gaz. vol. 217; p. 758.
- Norden, Carl S., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Insole-reinforcing machine. No. 1,165,801; Dec. 28; Gaz. vol. 221; p. 1197.
- Norden, Joseph. (See Norden, Mortimer, assignor.)
- Norden, Mortimer, assignor of one-half to J. Norden, New York, N. Y. Combined attachment-plug and base. No. 1,143,306; June 15; Gaz. vol. 215; p. 855.
- Norden, Mortimer, assignor to J. Norden, New York, N. Y. Combined attachment plug and base. No. 1,151,214; Aug. 24; Gaz. vol. 217; p. 1187.
- Nordin, John H., South Shore, S. D. Foot steering attachment for motor-cycles. No. 1,132,872; Mar. 23; Gaz. vol. 212; p. 1190.
- Nordin, Sten S. and S. H., Tacoma, Wash. Flour. No. 1,164,112; Dec. 14; Gaz. vol. 221; p. 528.
- Nordin, Sven H. (See Nordin, Sten S. and S. H.)
- Nordoff, Max, assignor to Elevator Supply & Repair Company, Chicago, Ill. Indicating device for annunciators and the like. No. 1,131,855; Mar. 16; Gaz. vol. 212; p. 771.
- Nordvall, Hjalmar, Chicago, Ill. Grinding-machine. No. 1,130,011; Mar. 2; Gaz. vol. 212; p. 60.
- Nordyke & Marmon Company. (See Ziegler, Leslie I., assignor.)
- Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Ratchet mechanism. No. 1,130,925; Mar. 9; Gaz. vol. 212; p. 412.
- Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Transmission-gearing. No. 1,142,357; June 8; Gaz. vol. 215; p. 482.
- Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Electric drill. No. 1,158,543; Nov. 2; Gaz. vol. 220; p. 48.
- Norma Compagnie G. m. b. H. (See Kirner, Josef H. K., assignor.)
- Norman, Charles E., Zearing, Iowa. Marker for corn-planters. No. 1,162,642; Nov. 30; Gaz. vol. 220; p. 1659.
- Norman, Charlie A., Frankfort, S. D. Gangway. No. 1,137,276; Apr. 27; Gaz. vol. 213; p. 1254.
- Norman, Joseph F., assignor of one-half to Norman Type Casting Syndicate Limited, London, England. Type-casting machine. No. 1,165,997; Dec. 28; Gaz. vol. 221; p. 1264.
- Norman, Lionel, Winchester, Mass. Machine for making paper vessels. No. 1,158,544; Nov. 2; Gaz. vol. 220; p. 48.
- Norman, Lionel, Winchester, Mass. Paper pail. No. 1,160,527; Nov. 16; Gaz. vol. 220; p. 829.
- Norman Type Casting Syndicate Limited. (See Norman, Joseph F., assignor.)
- Norman, William W., Hunterville, Mo. Treating wood. No. 1,142,610; June 8; Gaz. vol. 215; p. 571.

Alphabetical list of patentees--Continued.

- Norman, William W., Hunterville, Mo. Apparatus for treating wood. No. 1,142,611; June 8; Gaz. vol. 215; p. 572.
- Normart, Frank G. (See Homewood and Normart.)
- Norquist, Emanuel E., Kansas City, Mo. Storage-bin. No. 1,147,967; July 27; Gaz. vol. 216; p. 1114.
- Norquist, Emanuel E., assignor of one-half to Oxygen Gas Company, Kansas City, Mo. Electrolytic cell. No. 1,153,438; Sept. 14; Gaz. vol. 218; p. 419.
- Norquist, George H. (See Mitchell and Norquist.)
- Norris, Almon E., Cambridge, Mass. Automatic brake. No. 1,123,786; Jan. 5; Gaz. vol. 210; p. 202.
- Norris, Almon E., Cambridge, Mass. Coupling connection. No. 1,133,312; Mar. 30; Gaz. vol. 212; p. 1383.
- Norris, Almon E., Cambridge, Mass. Grip for cable-cars. No. 1,154,652; Sept. 28; Gaz. vol. 218; p. 903.
- Norris, Charles E., Independence, Kans. Beveling instrument. No. 1,126,263; Jan. 26; Gaz. vol. 210; p. 1197.
- Norris, Daniel E. (See Norris, Frank H. and D. E.)
- Norris, Frank H. and D. E., Robinson, Ill. Pitman for pumping-jacks. No. 1,165,998; Dec. 28; Gaz. vol. 221; p. 1264.
- Norris, George B., and C. C. Marshall, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Mining-machine chain. No. 1,159,861; Nov. 9; Gaz. vol. 220; p. 544.
- Norris, George E., assignor to The Perfection Mortise Machine Company, Columbus, Ohio. Mortising-machine. No. 1,155,160; Sept. 28; Gaz. vol. 218; p. 1077.
- Norris, George L., Pittsburgh, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Abrasion-testing machine. No. 1,156,803; Oct. 12; Gaz. vol. 219; p. 538.
- Norris, Harvey O., assignor to The Schiele Toy & Novelty Company, Dayton, Ohio. Locomotive toy. No. 1,161,812; Nov. 23; Gaz. vol. 220; p. 1329.
- Norris, J. Frank. (See Brownson, Earl L., assignor.)
- Norris, Robert E., Fayetteville, Ark., assignor of one-half to M. N. Benson, Paris, Tex. Nut-lock. No. 1,129,896; Mar. 2; Gaz. vol. 212; p. 22.
- Norris, William J., Reynoldsville, Pa. Safety-envelop. No. 1,154,878; Sept. 28; Gaz. vol. 218; p. 978.
- Norris, William L. (See Mahoney and Norris.)
- Norris, William P., Sistersville, W. Va. Cut-off mechanism for tanks. No. 1,151,900; Aug. 31; Gaz. vol. 217; p. 1467.
- Norrman, Karl A., Lynn, Mass., assignor to General Electric Company. Means for reversing two-cycle engines. No. 1,148,042; July 27; Gaz. vol. 216; p. 1141.
- Norsk Hydro-Elektrisk Kvaelfstofaktieselskab. (See Berg, Olaf, assignor.)
- Norsk Hydro-Elektrisk Kvaelfstofaktieselskab. (See Collett, Emil, assignor.)
- Norsk Hydro-Elektrisk Kvaelfstofaktieselskab. (See Troye, Einar, assignor.)
- Norsk Hydro-Elektrisk Kvaelfstofaktieselskab. (See Von Willmowsky, Erwin F., assignor.)
- North American Chemical Company. (See Thoma, Andrew, assignor.)
- North Bro's M'fg Co. (See Fegley, Thomas J., assignor.)
- North Bro's M'fg Co. (See Fegley and Leopold, assignors.)
- North Bro's M'fg Co. (See Leopold, George O., assignor.)
- North, Charles, Newport, Ky., C. J. Minning, and T. McWeeny, Cincinnati, Ohio. Comb. No. 1,159,789; Nov. 9; Gaz. vol. 220; p. 518.
- North, Charles H., Cleveland, Ohio, assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Telephone-exchange apparatus. No. 1,130,190; Mar. 2; Gaz. vol. 212; p. 122.
- North, Charles H., Cleveland, assignor to The North Electric Company, Gallon, Ohio. Electromagnetic signaling apparatus. No. 1,134,758; Apr. 6; Gaz. vol. 213; p. 247.
- North Dakota Gas Engine Manufacturing Company, The. (See Sandbo, Anton I., assignor.)
- North Dakota Straw Products Co. (See Melchers, John H., assignor.)
- North East Electric Company. (See Dorsey, Farnum F., assignor.)
- North East Electric Company. (See Halbleib, Edward A., assignor.)
- North East Electric Company. (See Halbleib and Dorsey, assignors.)
- North East Electric Company. (See Hoppe and Lee, assignors.)
- North Electric Company, The. (See North, Charles H., assignor.)
- North, Henry. (See Oberer, Fredollen J., assignor.)
- North, Herbert B., and J. W. Gibney, assignors to The Sentinel Mfg. Co., New Haven, Conn. Antislammeling-latch for oven-doors. No. 1,153,514; Sept. 14; Gaz. vol. 218; p. 447.
- North Indianapolis Cradle Works. (See Hewitt, Horace B., assignor.)
- North, John, Toledo, Ohio. Hair-coloring device. No. 1,127,496; Feb. 9; Gaz. vol. 211; p. 333.
- North, John E., J. H. McCauley, and J. G. Bytheway, Ellsworth, Pa. Nut-lock. No. 1,134,896; Apr. 6; Gaz. vol. 213; p. 291.
- North, Ray A., assignor to R. J. Dowd Knife Works, Beloit, Wis. Beater-roll. No. 1,144,665; June 29; Gaz. vol. 215; p. 1377.
- North, Ray A., assignor to R. J. Dowd Knife Works, Beloit, Wis. Beater-roll attachment. No. 1,144,666; June 29; Gaz. vol. 215; p. 1377.
- North Star Manufacturing Company. (See Weis, Frank O., assignor.)
- North Western Novelty Company. (See Bolen, Emerson A., assignor.)
- North, William B., Lumberton, N. C. Tug-loop. No. 1,138,776 May 11; Gaz. vol. 214; p. 408.
- Northcroft, Wilfrid. (See McKlnzie, Mortimer, assignor.)
- Northern Engineering Works. (See True, George A., assignor.)
- Northern Insulating Company. (See Lappen, James E., assignor.)
- Northern Sales Co., The. (See Delaney, Michael G., assignor.)
- Northern Water Softener Co. (See Kinzig, Louis D., assignor.)
- Northey, Andrew J., and F. A. McGee, assignors to Warner Brothers Company, Bridgeport, Conn. Buckle. No. 1,161,144; Nov. 23; Gaz. vol. 220; p. 1093.
- Northrop, Jonas, Hopedale, Mass. Self-threading shuttle. No. 1,145,610; July 6; Gaz. vol. 216; p. 221.
- Northrop, Jonas, assignor to Hopedale Manufacturing Company, Hopedale, Mass. Automatic weft-replenishing loom. No. 1,142,725; June 8; Gaz. vol. 215; p. 609.
- Northrup, Charles H., Oaks, Pa. Display-wagon. No. 1,139,215; May 11; Gaz. vol. 214; p. 563.
- Northrup, Edwin F., Princeton, N. J. Method of and means for measuring temperature and resistivity. No. 1,144,776; June 29; Gaz. vol. 215; p. 1417.
- Northrup, Edwin F., Princeton, N. J. Resistance. No. 1,146,592; July 13; Gaz. vol. 216; p. 588.
- Northrup, Elmer C., assignor to Automatic Machine Company, San Francisco, Cal. Box-making machine. No. 1,144,497; June 29; Gaz. vol. 215; p. 1321.
- Northrup, Francis B. (See Burroughs and Northrup.)
- Northrup, Francis B., Orange, assignor to The Charles Burroughs Company, Newark, N. J. Inverted-ram press. No. 1,158,830; Nov. 2; Gaz. vol. 220; p. 149.
- Northrup, Oscar F., Cassopolis, Mich. Ironing-board. No. 1,161,407; Nov. 23; Gaz. vol. 220; p. 1190.
- Northwall, Theodore G., et al. (See Hooker, Joseph D., assignor.)
- Northway Motor & Manufacturing Company. (See Knobloch, William H., assignor.)
- Northwestern Expanded Metal Company. (See Arey, Fred C., assignor.)
- Northwestern Knitting Company. (See Chatfield, Franklin, assignor.)
- Northwestern Manufacturing Company. (See Folden, Frank H., assignor.)
- Norton, Alexander A. (See Johnston and Norton.)
- Norton, Bertram, Dudley, England. Reciprocating conveyor or screen. No. 1,146,947; July 20; Gaz. vol. 216; p. 731.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Wheel-feed for grinding-machines. No. 1,141,205; June 1; Gaz. vol. 215; p. 41.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Table-operating mechanism for grinding-machines. No. 1,150,221; Aug. 17; Gaz. vol. 217; p. 785.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Grinding-machine. No. 1,150,222; Aug. 17; Gaz. vol. 217; p. 786.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Gearing. No. 1,152,434; Sept. 7; Gaz. vol. 218; p. 18.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Driving mechanism for grinding-machines. No. 1,161,957; Nov. 30; Gaz. vol. 220; p. 1427.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Grinding-machine. No. 1,164,745; Dec. 21; Gaz. vol. 221; p. 788.
- Norton, Charles L., Hudson, assignor to Asbestos Shingle Company, Nashua, N. H. Machine for making concrete slabs or plates. No. 1,140,702; May 25; Gaz. vol. 214; p. 1155.
- Norton, Charles L., Hudson, assignor to Asbestos Shingle Company, Nashua, N. H. Producing uniform density in concrete material. No. 1,140,703; May 25; Gaz. vol. 214; p. 1155.
- Norton, Charles L., Hudson, assignor to Asbestos Shingle Company, Nashua, N. H. Machine for making concrete slabs or plates. No. 1,140,704; May 25; Gaz. vol. 214; p. 1155.
- Norton, Charles W. (See Hutchison and Norton.)
- Norton, Charley C., Memphis, Tenn. Absorption refrigerating apparatus. No. 1,151,035; Aug. 24; Gaz. vol. 217; p. 1125.
- Norton, Christopher F., Merritt, and M. S. Whaley, Courtenay, Fla. Device for holding a plurality of boxes while being bound together. No. 1,166,243; Dec. 28; Gaz. vol. 221; p. 1356.
- Norton Company. (See Boeck, Percy A., assignor.)
- Norton Company. (See King, Clarence R., assignor.)

Alphabetical list of patentees—Continued.

- Norton Company. (See Malm, Arthur T., assignor.)
 Norton Company. (See Spence, John C., assignor.)
 Norton Company. (See White, Ray H., assignor.)
 Norton Door Check Company. (See Norton, Lewis C., assignor.)
 Norton, Edwin, Hamilton, Bermuda, assignor to Perfect Vacuum Canning Company. Vacuum-can. No. 1,133,999; Mar. 30; Gaz. vol. 212; p. 1624.
 Norton, Elliott S., assignor, by mesne assignments, to Handicap Company, Chicago, Ill. Machine for cutting slits in bottle-caps and similar articles. No. 1,136,162; Apr. 20; Gaz. vol. 213; p. 818.
 Norton, Eugene E., Bridgeport, Conn. Machine for inserting stays in corsets. No. 1,154,200; Sept. 21; Gaz. vol. 218; p. 718.
 Norton, Frank W., Cedar Rapids, Iowa. Photographic-printing machine. No. 1,149,852; Aug. 10; Gaz. vol. 217; p. 592.
 Norton, Fred. (See St. John and Norton.)
 Norton, Frederic J., Bairdstown, Cal. Deflector. No. 1,166,244; Dec. 28; Gaz. vol. 221; p. 1356.
 Norton, George W., et al. (See Webb, Ferdinand, assignor.)
 Norton Grinding Company. (See Elden, Albert G., assignor.)
 Norton Grinding Company. (See Norton, Charles H., assignor.)
 Norton, Henry L., Waterbury, Conn. Sash-fastener. No. 1,138,008; May 4; Gaz. vol. 214; p. 99.
 Norton, Henry L., Waterbury, Conn. Sash-fastener. No. 1,138,009; May 4; Gaz. vol. 214; p. 100.
 Norton, Horatio N., Mount Vernon, N. Y. Fluid-power-transmitting apparatus for vehicles. No. 1,157,415; Oct. 19; Gaz. vol. 219; p. 788.
 Norton, James A., Odebolt, assignor to L. E. Grant, Idagrove, Iowa. Irrigating apparatus. No. 1,150,144; Aug. 17; Gaz. vol. 217; p. 758.
 Norton, Jesse A., Joliet, Ill. Camera attachment. No. 1,149,676; Aug. 10; Gaz. vol. 217; p. 530.
 Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door-operating mechanism. No. 1,124,940; Jan. 12; Gaz. vol. 210; p. 655.
 Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door closer and check. No. 1,124,941; Jan. 12; Gaz. vol. 210; p. 655.
 Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door operating and locking device. No. 1,129,046; Feb. 16; Gaz. vol. 211; p. 924.
 Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Device for operating doors. No. 1,132,027; Mar. 16; Gaz. vol. 212; p. 832.
 Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door-operating device. No. 1,138,306; May 4; Gaz. vol. 214; p. 204.
 Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door-check. No. 1,152,339; Aug. 31; Gaz. vol. 217; p. 1618.
 Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Device for operating elevator-doors. No. 1,163,104; Dec. 7; Gaz. vol. 221; p. 128.
 Norton, Ralph H., assignor to Acme Steel Goods Company, Chicago, Ill. Tool for handling wire. No. 1,141,257; June 1; Gaz. vol. 215; p. 59.
 Norton, Raymond P., assignor of one-third to W. A. Norton, Marshalltown, Iowa. Carburetor. No. 1,135,544; Apr. 13; Gaz. vol. 213; p. 560.
 Norton, Robert P. (See Talley and Norton.)
 Norton, W. A. (See Norton, Raymond P., assignor.)
 Norton, William, San Francisco, Cal. Antiskidding device for motor-vehicles. No. 1,147,040; July 20; Gaz. vol. 216; p. 763.
 Norton, William L., Kansas City, Mo. Undergarment. No. 1,146,092; July 13; Gaz. vol. 216; p. 411.
 Norton, William R., Hightstown, N. J. Massage-glove. No. 1,161,719; Nov. 23; Gaz. vol. 220; p. 1296.
 Norvell, Eliga G., Paragould, Ark., assignor of one-fourth to O. C. Schroeder, Kilbourne, Ill. Safety signal device. No. 1,162,248; Nov. 30; Gaz. vol. 220; p. 1528.
 Norvell, Peyton. (See Russell, George H., assignor.)
 Norvell Automatic Feeder Company, The. (See Enos, Frank, Jr., assignor.)
 Norwood, Carrie M., assignor of seven-sixteenths to J. H. Poole, Avon, and seven-sixteenths to F. L. Price, Brockton, Mass. Sash-curtain rod. No. 1,148,252; July 27; Gaz. vol. 216; p. 1216.
 Norwood, Harry Y., and F. W. Stalker, assignors to Taylor Instrument Companies, Rochester, N. Y. Automatic recording mechanism. No. 1,129,114; Feb. 23; Gaz. vol. 211; p. 982.
 Norwood, Harry Y., Rochester, N. Y., and D. G. Stuart, Detroit, Mich., assignors to Taylor Instrument Companies, Rochester, N. Y. Humidifying apparatus. No. 1,151,814; Aug. 31; Gaz. vol. 217; p. 1438.
 Norwood, John E. (See Schroeder and Norwood.)
 Norzagaray, Leonidas, London, England. Apparatus for treating latex and sheeting the coagulated product. No. 1,164,850; Dec. 21; Gaz. vol. 221; p. 826.
 Nosworthy, William H., and S. J. Prescott, London, England. Hydroaeroplane. No. 1,152,654; Sept. 7; Gaz. vol. 218; p. 101.
 Notz, Henry J., Cincinnati, Ohio. Transmission-gearing. No. 1,148,710; Aug. 3; Gaz. vol. 217; p. 81.
 Nourse, Frank P., Lewiston, Idaho. Extension-splint. No. 1,164,956; Dec. 21; Gaz. vol. 221; p. 863.
 Nourse, Leland D., Brookline, Mass. Power-generator. No. 1,148,711; Aug. 3; Gaz. vol. 217; p. 82.
 Novak, Frank F., New York, N. Y. Acetylene-gas generator. No. 1,162,708; Nov. 30; Gaz. vol. 220; p. 1682.
 Novak, John, Chicago, Ill. Compasses. No. 1,140,844; May 25; Gaz. vol. 214; p. 1204.
 Novelty Manufacturing Company. (See Boeck, Charles H., assignor.)
 Novelty Manufacturing Company. (See Jacobson, William A., assignor.)
 Novess, Frank, Ypsilanti, Mich. Post. No. 1,134,897; Apr. 6; Gaz. vol. 213; p. 292.
 Novick, Abraham, assignor to F. L. Schmidt Company, New York, N. Y. Sheet-feeding mechanism. No. 1,134,550; Apr. 6; Gaz. vol. 213; p. 170.
 Novick, Abraham, assignor to F. L. Schmidt Company, New York, N. Y. Web-cutting mechanism. No. 1,140,392; May 25; Gaz. vol. 214; p. 1047.
 Novick, Michael J., Schenectady, N. Y. Street-car fender. No. 1,165,201; Dec. 21; Gaz. vol. 221; p. 949.
 Novoson, Maurice J., and J. B. Hill, assignors to James B. Hill Hat Company, St. Louis, Mo. Cap. No. 1,123,354; Jan. 5; Gaz. vol. 210; p. 54.
 Nowak, Frank, et al. (See Reynolds, George E., assignor.)
 Nowak, John W., St. Louis, Mo. Compensating gear. No. 1,162,305; Nov. 30; Gaz. vol. 220; p. 1548.
 Nowell, Edward T., Stotts City, Mo. Egg-shipping container. No. 1,140,280; May 18; Gaz. vol. 214; p. 972.
 Noxon, Margaret L., New York, N. Y. Pin-catch. No. 1,134,898; Apr. 6; Gaz. vol. 213; p. 292.
 Noyes, Albert, Atlanta, Ga., assignor to American Bag Company, Memphis, Tenn. Bag-turning machine. No. 1,148,853; Aug. 3; Gaz. vol. 217; p. 132.
 Noyes, Arthur A., trustee. (See Keyes, Frederick G., assignor.)
 Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. W. Brown, trustee, Pittsburgh, Pa. Liquid-feeder for burners, &c. No. 1,141,258; June 1; Gaz. vol. 215; p. 59.
 Noyes, La Verne, assignor to Aermotor Company, Chicago, Ill. Gear-casing for power transmission. No. 1,141,356; June 1; Gaz. vol. 215; p. 95.
 Noyes, La Verne, assignor to Aermotor Company, Chicago, Ill. Lubricating mechanism. No. 1,143,307; June 15; Gaz. vol. 215; p. 855.
 Noyes, La Verne, assignor to Aermotor Company, Chicago, Ill. Lubricating mechanism. No. 1,151,815; Aug. 31; Gaz. vol. 217; p. 1438.
 Noyes, La Verne, assignor to Aermotor Company, Chicago, Ill. Windmill. No. 1,163,681; Dec. 14; Gaz. vol. 221; p. 375.
 Noyes, La Verne, assignor to Aermotor Company, Chicago, Ill. Windmill. No. 1,163,682; Dec. 14; Gaz. vol. 221; p. 375.
 Noyes, La Verne W., assignor to Aermotor Company, Chicago, Ill. Power-transmission mechanism. No. 1,163,680; Dec. 14; Gaz. vol. 221; p. 375.
 Noyes, Maybaw E., assignor to The Hendrickson Machine Company, Cleveland, Ohio. Worm-thread-grinding machine. No. 1,161,242; Nov. 23; Gaz. vol. 220; p. 1131.
 Nu Bone Corset Company of Pennsylvania, The. (See Dean, John R., assignor.)
 Nufer, Edward, et al. (See Schwarz, Julius, assignor.)
 Nugent, Anthony F., New York, N. Y. Awning-fastener. No. 1,125,589; Jan. 19; Gaz. vol. 210; p. 920.
 Nugent, James M., East Quogue, assignor of one-half to F. Seebor, New York, N. Y. Convertible saw. No. 1,135,912; Apr. 13; Gaz. vol. 213; p. 690.
 Nubring, Charles, Cincinnati, Ohio. Hose-rack. No. 1,156,706; Oct. 12; Gaz. vol. 219; p. 507.
 Null, David W., Ned, Pa. Wrench. No. 1,152,832; Sept. 7; Gaz. vol. 218; p. 166.
 Nunamaker, Henry S., Cleveland, Ohio. Vehicle-tire. No. 1,126,840; Feb. 2; Gaz. vol. 211; p. 63.
 Nunemaker, W. A., et al. (See Johnson, Orion E., assignor.)
 Nunez, Crescencio A., Cruces, Cuba. Steam-trap. No. 1,143,550; June 15; Gaz. vol. 215; p. 939.
 Nunez, Frank, Newark, N. J. Separator for splitting essential oils. No. 1,125,590; Jan. 19; Gaz. vol. 210; p. 920.
 Nunn, Nevvens N., assignor to The Almetal Manufacturing Company, Maplewood, Mo. Washing-machine. No. 1,164,851; Dec. 21; Gaz. vol. 221; p. 827.
 Nunn, Orion W., Denver, Colo., assignor to Landis Machine Company, St. Louis, Mo. Wire-feeding mechanism for stapling-machines. No. 1,132,111; Mar. 16; Gaz. vol. 212; p. 862.
 Nunn, Orion W., Denver, Colo., assignor to Landis Machine Company, St. Louis, Mo. Button-stapling machine. No. 1,132,112; Mar. 16; Gaz. vol. 212; p. 862.
 Nunn, Orion W., Denver, Colo., assignor of one-fourth to C. Mahler, one-fourth to E. W. Scholpp, and one-fourth to F. K. Scholpp. Sanitary shoe-stool. No. 1,125,155; Jan. 19; Gaz. vol. 210; p. 766.
 Nunn, Silvester, Portland, Ore. Electric-wire insulator. No. 1,146,201; July 13; Gaz. vol. 216; p. 449.
 Nunnally, Timollian O. (See Puthoff, Nunnally, and Ramsey.)

- Nusbaum, Jerry T. (See Parker and Nusbaum.)
- Nuth, Georges, Marseille, France. Preparation of elastic products and substitutes for natural lacs. No. 1,159,258; Nov. 2; Gaz. vol. 220; p. 295.
- Nüth, Georges, assignor of one-half to L. Türcat, Neuilly-sur-Seine, France. Elastic product and producing the same. No. 1,159,257; Nov. 2; Gaz. vol. 220; p. 295.
- Nutt, Norman W., assignor to Trenton Electric and Conduit Company, Trenton, N. J. Electrical fuse-plug. No. 1,158,145; Oct. 26; Gaz. vol. 219; p. 1104.
- Nuttall, Charles. (See Smith and Nuttall.)
- Nuttall, James H., Manchester, England. Roller apparatus for masticating plastic and like materials and other purposes. No. 1,149,853; Aug. 10; Gaz. vol. 217; p. 593.
- Nutter, Charles P., Malden, assignor to Combined Heat & Sprinkler Company, Boston, Mass. Automatic sprinkler. No. 1,137,016; Apr. 27; Gaz. vol. 213; p. 1159.
- Nutter, William S., assignor to Goodall Worsted Company, Sanford, Me. Mohair fabric. No. 1,131,259; Mar. 9; Gaz. vol. 212; p. 526.
- Nutting, Harvey C., Oelwein, Iowa. Time-switch. No. 1,135,839; Apr. 13; Gaz. vol. 213; p. 665.
- Nyberg, Axel T., Salem, Mass. Shipping-case. No. 1,127,273; Feb. 2; Gaz. vol. 211; p. 214.
- Nyberg, Carl S., Hasselbacken, Mellösa, Sweden. Split-belt pulley. No. 1,145,078; July 6; Gaz. vol. 216; p. 38.
- Nyberg, Frank R., assignor of one-half to G. J. Garvin, Lamar, Colo. Attachment for automobiles. No. 1,134,759; Apr. 6; Gaz. vol. 213; p. 247.
- Nyberg, Frank R., assignor of one-half to G. J. Garvin, Lamar, Colo. Attachment for engines. No. 1,142,612; June 8; Gaz. vol. 215; p. 572.
- Nyboe, Peter, Seattle, Wash. Bookbinder. No. 1,139,057; May 11; Gaz. vol. 214; p. 509.
- Nyborg, Tage G., Newcastle-upon-Tyne, England. Multi-cylinder internal-combustion engine of the horizontal type. No. 1,161,152; Nov. 23; Gaz. vol. 220; p. 1096.
- Nyce, Reinard, Lansdale, Pa. Poultry-wing holder. No. 1,164,383; Dec. 14; Gaz. vol. 221; p. 624.
- Nydegger, Adolph, assignor to C. H. & E. Manufacturing Company, Milwaukee, Wis. Plaster-mixer. No. 1,131,260; Mar. 9; Gaz. vol. 212; p. 526.
- Nye, Alvin J., Orlando, Fla. Apparatus for treating fruit. No. 1,125,382; Jan. 19; Gaz. vol. 210; p. 850.
- Nye, George F., Kearney, Nebr. Concrete-mixer. No. 1,142,613; June 8; Gaz. vol. 215; p. 572.
- Nye, Herman M., Lincoln, Nebr. Feed-water purifier and boiler-skimmer. No. 1,166,245; Dec. 28; Gaz. vol. 221; p. 1357.
- Nye, James M., Kansas City, Kans. Smoke and gas returning means. No. 1,135,913; Apr. 13; Gaz. vol. 213; p. 690.
- Nye, Theresa A., et al. (See Southard, George B., assignor.)
- Nye Tool and Machine Works, The. (See Fletcher, Joseph C., assignor.)
- Nye Tool and Machine Works, The. (See Potter and Benson, assignors.)
- Nye, William A., Bournedale, Mass. Insect-trap. No. 1,124,612; Jan. 12; Gaz. vol. 210; p. 550.
- Nye, William C., Dallas, Tex. Pot-cover. No. 1,129,115; Feb. 23; Gaz. vol. 211; p. 933.
- Nygaard, Gunder, Clermont, Iowa. Hydrocarbon-engine. No. 1,133,740; Mar. 30; Gaz. vol. 212; p. 1538.
- Nygaard, Jens. (See Leadbetter, Noble W., assignor.)
- Nygaard, Johan O., assignor to A/S Johnny Fabriker, Christiania, Norway. Button. No. 1,127,669; Feb. 9; Gaz. vol. 211; p. 339.
- Nyhagen, George T. (See Hamilton and Nyhagen.)
- Nylander, Erik G., assignor to Camel Company, Chicago, Ill. Door mechanism for railway-cars. No. 1,136,971; Apr. 27; Gaz. vol. 213; p. 1142.
- Nylund, Victor, Minneapolis, Minn. Closure for receptacles. No. 1,129,222; Feb. 23; Gaz. vol. 211; p. 1019.
- Nymon, Wigo G., Argusville, N. D. Wrench. No. 1,158,713; Nov. 2; Gaz. vol. 220; p. 105.
- Nystrom, Ernst, Rockford, Ill. Buckle. No. 1,126,841; Feb. 2; Gaz. vol. 211; p. 63.
- Nystrom, Ernst, Rockford, Ill. Power-hammer. No. 1,128,496; Feb. 16; Gaz. vol. 211; p. 728.
- Nystrom, John P. (See Erickson and Nystrom.)
- O. A. Miller Treeling Machine Company. (See Hansen, John S., assignor.)
- O. A. Miller Treeling Machine Company. (See Holmes, Charles H., assignor.)
- O. K. Controller Company, The. (See Kennedy and Olson, assignors.)
- O. M. Edwards Company, The. (See Chaffee, Edward F., assignor.)
- O. P. Schriver Co., The. (See Webster, John M., assignor.)
- O. and S. Bearing Company. (See Obrecht, Norbert L., assignor.)
- O. and S. Bearing Company. (See Obrecht and Skillman, assignors.)
- O. S. Walker Co. (See Walker, Oakley S., assignor.)
- O. S. Walker Co. (See Walker and Williams, assignors.)
- O. Z. O. Jewelry Manufacturing Company, The. (See Obshoum, Thomas M., assignor.)
- O'Boyle, Michael W. (See Austin, William, assignor.)
- O'Brien, Alfred J., et al. (See Robinson, Jay A., assignor.)
- O'Brien, Daniel P., assignor to Woburn Machine Company, Woburn, Mass. Machine for treating hides, skins, and leather. No. 1,150,532; Aug. 17; Gaz. vol. 217; p. 893.
- O'Brien, Dennis J., San Francisco, Cal., assignor, by mesne assignments, to Straight Filament Lamp Company, Receptor. No. 1,127,082; Feb. 2; Gaz. vol. 211; p. 147.
- O'Brien, Dennis J., San Francisco, Cal., assignor, by mesne assignments, to Straight Filament Lamp Company, Mercury-pump. No. 1,154,585; Sept. 21; Gaz. vol. 218; p. 851.
- O'Brien, Dennis J., assignor of one-fourth to J. P. Harrington, one-fourth to T. J. Nagle, and one-fourth to J. L. Murray, Jerome, Ariz. Stay-bolt. No. 1,128,895; Feb. 16; Gaz. vol. 211; p. 870.
- O'Brien, Edward D., Seattle, Wash. Sand-blast. No. 1,164,389; Dec. 14; Gaz. vol. 221; p. 624.
- O'Brien, Edward P., East Weymouth, Mass. Wool-delivering device. No. 1,159,259; Nov. 2; Gaz. vol. 220; p. 296.
- O'Brien, Emma A., Wichita, Kans. Tracing-board. No. 1,137,229; Apr. 27; Gaz. vol. 213; p. 1236.
- O'Brien, Frank J., Christchurch, New Zealand. Boot-fastening. No. 1,148,983; Aug. 3; Gaz. vol. 217; p. 176.
- O'Brien, Glen, Manhattan, Kans. Dehumidizer. No. 1,143,061; June 15; Gaz. vol. 215; p. 769.
- O'Brien, Henry D., Forsyth, Mont. Truss. No. 1,129,501; Feb. 23; Gaz. vol. 211; p. 1118.
- O'Brien, James D., assignor of one-fourth to C. K. Callahan and one-eighth to J. M. Hittle, Greenville, Pa. Envelop or the like. No. 1,136,163; Apr. 20; Gaz. vol. 213; p. 818.
- O'Brien, James F., Los Angeles, Cal. Cartridge-loading machine. No. 1,126,651; Jan. 26; Gaz. vol. 210; p. 1338.
- O'Brien, James F., Los Angeles, Cal. Cartridge-making machine. No. 1,129,809; Feb. 23; Gaz. vol. 211; p. 1221.
- O'Brien, James F., Los Angeles, Cal. Automobile-lock. No. 1,133,393; Mar. 30; Gaz. vol. 212; p. 1413.
- O'Brien, James F., Chicago, Ill. Explosive. No. 1,132,873; Mar. 23; Gaz. vol. 212; p. 1191.
- O'Brien, John, Chicago, Ill. Mortuary-illuminating apparatus. No. 1,130,191; Mar. 2; Gaz. vol. 212; p. 122.
- O'Brien, John, and L. A. Hewitt, Minneapolis, Minn. Laundry-tub stand. No. 1,148,921; Aug. 3; Gaz. vol. 217; p. 155.
- O'Brien, John E., and C. Harter, St. Louis, Mo. Car-roof. No. 1,154,425; Sept. 21; Gaz. vol. 218; p. 796.
- O'Brien, John J., Chicago, Ill. Sash-cord fastener. No. 1,153,439; Sept. 14; Gaz. vol. 218; p. 419.
- O'Brien, Joseph F., New York, N. Y. Window construction. No. 1,157,031; Oct. 19; Gaz. vol. 219; p. 651.
- O'Brien, Leo, Montclair, N. J. Vehicle-signal. No. 1,140,393; May 25; Gaz. vol. 214; p. 1048.
- O'Brien Steel Construction Company. (See O'Brien, William, assignor.)
- O'Brien, Vincent J., Denver, Colo. Rock-drill. No. 1,162,249; Nov. 30; Gaz. vol. 220; p. 1528.
- O'Brien, William, et al. (See Eckenwiler, George M., assignor.)
- O'Brien, William, assignor to O'Brien Steel Construction Company, Washington, Pa. Derrick. No. 1,160,948; Nov. 16; Gaz. vol. 220; p. 980.
- O'Byrne, Joseph F., Jarbridge, Nev. Noiseless case for noisy machines. (Reissue.) No. 13,870; Jan. 12; Gaz. vol. 210; p. 639.
- O'Connell, Joseph, and H. H. Kerr, Kensington, Victoria, Australia. Cooler for cream, milk, and other fluids. No. 1,161,513; Nov. 23; Gaz. vol. 220; p. 1226.
- O'Connell, Thomas J., Ware, Mass. Warp stop mechanism. No. 1,139,994; May 18; Gaz. vol. 214; p. 873.
- O'Connell, Timothy, Holyoke, assignor to The Whittin Machine Works, Whitinsville, Mass. Roving-frame. No. 1,151,121; Aug. 24; Gaz. vol. 217; p. 1153.
- O'Connor, Edmund A., assignor of one-half to S. S. Hayes, Vancouver, British Columbia, Canada. Saw-regrinding attachment for saw gummers or sharpeners. No. 1,144,721; June 29; Gaz. vol. 215; p. 1398.
- O'Connor, Eugene, Everett, Wash. Straw-holder. No. 1,139,365; May 11; Gaz. vol. 214; p. 615.
- O'Connor, James. (See Stone, Wilbur M., assignor.)
- O'Connor, James, assignor to Autopiano Co., New York, N. Y. Tracker and guide apparatus for traveling webs. No. 1,160,193; Nov. 16; Gaz. vol. 220; p. 713.
- O'Connor, James F., St. Louis, Mo. Dumping-wagon. No. 1,143,308; June 15; Gaz. vol. 215; p. 856.
- O'Connor, Jeremiah A., and E. Fitzgerald, Chicago, Ill. Car-seal. No. 1,149,460; Aug. 10; Gaz. vol. 217; p. 449.
- O'Connor, Jeremiah A., and E. Fitzgerald, Chicago, Ill. Car-seal. No. 1,149,461; Aug. 10; Gaz. vol. 217; p. 450.
- O'Connor, Jeremiah A., and E. Fitzgerald, Chicago, Ill. Car-seal. No. 1,149,462; Aug. 10; Gaz. vol. 217; p. 450.
- O'Connor, John. (See Harstad, Ole, assignor.)
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,165,703; Dec. 28; Gaz. vol. 221; p. 1163.
- O'Connor, John F. (See Miner and O'Connor.)
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Coupling-connector for railway-car draft-rigging. No. 1,123,355; Jan. 5; Gaz. vol. 210; p. 55.

Alphabetical list of patentees—Continued.

- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,123,356; Jan. 5; Gaz. vol. 210; p. 55.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction-buffer for railway-cars. No. 1,125,383; Jan. 19; Gaz. vol. 210; p. 850.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Railway draft-rigging. No. 1,125,384; Jan. 19; Gaz. vol. 210; p. 850.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-car draft-rigging. No. 1,128,353; Feb. 16; Gaz. vol. 211; p. 682.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,128,354; Feb. 16; Gaz. vol. 211; p. 682.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Buffer-plate-supporting means. No. 1,128,355; Feb. 16; Gaz. vol. 211; p. 682.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-car draft-rigging. No. 1,128,356; Feb. 16; Gaz. vol. 211; p. 683.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,130,012; Mar. 2; Gaz. vol. 212; p. 60.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Twin-arranged friction draft-gear. No. 1,130,013; Mar. 2; Gaz. vol. 212; p. 60.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging for railway-cars. No. 1,130,323; Mar. 2; Gaz. vol. 212; p. 167.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. High-capacity twin-friction draft-gear. No. 1,130,998; Mar. 9; Gaz. vol. 212; p. 436.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Railway draft-rigging. No. 1,130,999; Mar. 9; Gaz. vol. 212; p. 436.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Pedestal-table. No. 1,131,730; Mar. 16; Gaz. vol. 212; p. 723.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Side bearing for railway-cars. No. 1,132,610; Mar. 23; Gaz. vol. 212; p. 1094.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Side bearing for six-wheeled passenger-car trucks. No. 1,133,573; Mar. 30; Gaz. vol. 212; p. 1477.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Shock-absorber. No. 1,135,607; Apr. 13; Gaz. vol. 213; p. 553.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 1,136,035; Apr. 20; Gaz. vol. 213; p. 774.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-car draft-rigging. No. 1,136,036; Apr. 20; Gaz. vol. 213; p. 775.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,037; Apr. 20; Gaz. vol. 213; p. 775.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Railway draft-rigging. No. 1,136,038; Apr. 20; Gaz. vol. 213; p. 775.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,039; Apr. 20; Gaz. vol. 213; p. 775.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,040; Apr. 20; Gaz. vol. 213; p. 776.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,041; Apr. 20; Gaz. vol. 213; p. 776.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,136,042; Apr. 20; Gaz. vol. 213; p. 776.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,138,138; May 4; Gaz. vol. 214; p. 148.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,138,139; May 4; Gaz. vol. 214; p. 148.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,139,058; May 11; Gaz. vol. 214; p. 509.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Underframe for railway-cars. No. 1,139,059; May 11; Gaz. vol. 214; p. 510.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,139,060; May 11; Gaz. vol. 214; p. 510.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Adjustable side-bearing for railway-cars. No. 1,139,061; May 11; Gaz. vol. 214; p. 510.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Buffering mechanism. No. 1,139,709; May 18; Gaz. vol. 214; p. 773.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,142,353; June 8; Gaz. vol. 215; p. 483.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,142,839; June 15; Gaz. vol. 215; p. 689.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction-buffer for railway-cars. No. 1,146,344; July 13; Gaz. vol. 216; p. 498.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-gear for railway-cars. No. 1,148,185; July 27; Gaz. vol. 216; p. 1193.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Car-buffering mechanism. No. 1,148,186; July 27; Gaz. vol. 216; p. 1193.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,148,187; July 27; Gaz. vol. 216; p. 1193.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,149,399; Aug. 10; Gaz. vol. 217; p. 428.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 1,151,379; Aug. 24; Gaz. vol. 217; p. 1239.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,152,040; Aug. 31; Gaz. vol. 217; p. 1515.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,152,039; Aug. 31; Gaz. vol. 217; p. 1515.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,152,041; Aug. 31; Gaz. vol. 217; p. 1515.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Refrigerator-door closing and locking means. No. 1,152,042; Aug. 31; Gaz. vol. 217; p. 1516.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Manufacturing draft-yokes. No. 1,153,331; Sept. 14; Gaz. vol. 218; p. 379.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Side bearing for railway-cars. No. 1,153,699; Sept. 14; Gaz. vol. 218; p. 511.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car construction. No. 1,154,202; Sept. 21; Gaz. vol. 218; p. 718.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-gear for railway-cars. No. 1,156,092; Oct. 12; Gaz. vol. 219; p. 293.
- O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Means for connecting the draft-yoke to the draw-bar in railway-cars. No. 1,160,642; Nov. 16; Gaz. vol. 220; p. 872.
- O'Connor, Joseph J. S., Burbank, S. D. Harrow-cart. No. 1,124,321; Jan. 12; Gaz. vol. 210; p. 433.
- O'Connor, Martin A., assignor to Providence Blower Company, Providence, R. I. Variable-speed gear. No. 1,142,051; June 8; Gaz. vol. 215; p. 375.
- O'Connor, Maurice, Fort Russell, Wyo. Spring-wheel. No. 1,166,148; Dec. 28; Gaz. vol. 221; p. 1320.
- O'Connor, Peter. (See Fenstermaker, George W., assignor.)
- O'Connor, Richard A. (See Charland and O'Connor.)
- O'Connor, Stanley H., et al. (See Wood, Halbert M., assignor.)
- O'Connor, William H., Horseheads, N. Y. Steam-heated last. No. 1,155,087; Sept. 28; Gaz. vol. 218; p. 1052.
- O'Connor, William S., New York, N. Y. Secondary or storage battery. No. 1,164,746; Dec. 21; Gaz. vol. 221; p. 788.
- O'Connor, William V., Grand Forks, N. D. Pencil-holder. No. 1,153,105; Sept. 7; Gaz. vol. 218; p. 262.
- O'Donnell, James W., Ottawa, Ill. Automobile-cover. No. 1,164,853; Dec. 21; Gaz. vol. 221; p. 827.
- O'Donnell, John B., assignor of one-half to J. S. Strong, Kansas City, Mo. Shock-absorbing device. No. 1,154,267; Sept. 21; Gaz. vol. 218; p. 741.
- O'Donnell, Patrick J., Chicago, Ill. Repairing brick furnace-arches. No. 1,132,028; Mar. 16; Gaz. vol. 212; p. 833.
- O'Donnell, Patrick S., assignor, by mesne assignments, to Automatic Magazine Cigarette Box Co., Chicago, Ill. Cigarette-case. No. 1,131,856; Mar. 16; Gaz. vol. 212; p. 771.
- O'Donnell, Terence, Kansas City, Mo. Bill and holder for the same. No. 1,149,178; Aug. 10; Gaz. vol. 217; p. 565.
- O'Donnell, Thomas, Ironwood, Mich. Lamp-socket. No. 1,163,446; Dec. 7; Gaz. vol. 221; p. 249.
- O'Donnell, William J., Alameda, Cal. Display-box. No. 1,131,075; Mar. 9; Gaz. vol. 212; p. 462.
- O'Donoghue, James D. and W. New York, N. Y., and M. A. Trigg, Washington, D. C. Safety-envelope. No. 1,126,557; Jan. 26; Gaz. vol. 210; p. 1304.
- O'Donoghue, William. (See O'Donoghue and Trigg.)
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas-burner. No. 1,132,029; Mar. 16; Gaz. vol. 212; p. 833.
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Sad-iron. No. 1,134,552; Apr. 6; Gaz. vol. 213; p. 171.
- O'Dwyer, Joseph, assignor to L. O'Dwyer, New York, N. Y. Foot-corset. No. 1,156,621; Oct. 12; Gaz. vol. 219; p. 477.
- O'Dwyer, Launcelot. (See O'Dwyer, Joseph, assignor.)
- O'Hair, Edward C. (See Storm and O'Hair.)
- O'Hara, Walter, Seattle, Wash. Portable house. No. 1,152,655; Sept. 7; Gaz. vol. 218; p. 101.
- O'Hara, William T., Spokane, Wash. Saw-filing device. No. 1,136,257; Apr. 20; Gaz. vol. 213; p. 852.
- O'Hara, William T., assignor to Spokane Mail Equipment Company, Spokane, Wash. Mail-catching apparatus. No. 1,138,780; May 11; Gaz. vol. 214; p. 410.

- O'Horo, Peter P., and R. Keller, Chicago, Ill. Coaster-brake. No. 1,149,149; Aug. 3; Gaz. vol. 217; p. 232.
- O'Keefe, Isabelle C. (See Venske, Paul C., assignor.)
- O'Keefe, P. J. (See McMullen, Roger B., assignor.)
- O'Leary, John, Cohoes, N. Y. Vehicle-fender. No. 1,126,558; Jan. 26; Gaz. vol. 210; p. 1304.
- O'Leary, Thomas, assignor of one-half to G. M. Register, Bismarck, N. D. Truck for moving trees, &c. No. 1,161,878; Nov. 30; Gaz. vol. 220; p. 1398.
- O'Leary, Thomas J., et al. (See Zumino, Lorenzo, assignor.)
- O'Malley-Beare Valve Company. (See O'Malley, Edward, assignor.)
- O'Malley, Conrad V., Rome, N. Y. Non-refillable bottle. No. 1,127,497; Feb. 9; Gaz. vol. 211; p. 333.
- O'Malley, Edward, assignor to O'Malley-Beare Valve Company, Chicago, Ill. Valve. No. 1,141,882; June 1; Gaz. vol. 215; p. 277.
- O'Malley, Edward, assignor to O'Malley-Beare Valve Company, Chicago, Ill. Valve. No. 1,149,594; Aug. 10; Gaz. vol. 217; p. 496.
- O'Neal, Charles E., and J. A. Wanamaker, Pine Bluff, Ark. Folding crate. No. 1,125,156; Jan. 19; Gaz. vol. 210; p. 767.
- O'Neal, John S., Cincinnati, Ohio. Disk valve for internal-combustion engines. No. 1,130,427; Mar. 2; Gaz. vol. 212; p. 204.
- O'Neil, George, Moncton, New Brunswick, Canada. Smoke-consumer. No. 1,131,944; Mar. 16; Gaz. vol. 212; p. 801.
- O'Neil, Henry E., et al. (See Pringle, John L., assignor.)
- O'Neil, Stephen G., et al. (See Mason, Ilosea A., assignor.)
- O'Neil, William H., Los Angeles, Cal. Stuffing-box follower. No. 1,143,854; June 22; Gaz. vol. 215; p. 1068.
- O'Neill, Ellis I. (See Paxton, John B. and J. T., assignors.)
- O'Neill, Frank, Toledo, Ohio. Machine for manufacturing glassware. No. 1,147,539; July 20; Gaz. vol. 216; p. 937.
- O'Neill, George, Moncton, New Brunswick, Canada. Furnace-door. No. 1,131,945; Mar. 16; Gaz. vol. 212; p. 801.
- O'Neill, George, Moncton, New Brunswick, Canada. Smoke-consumer. No. 1,145,504; July 6; Gaz. vol. 216; p. 185.
- O'Neill, George, Moncton, New Brunswick, Canada. Fuel-saving device. No. 1,153,333; Sept. 14; Gaz. vol. 218; p. 380.
- O'Neill, Henry W., Brooklyn, assignor to Gray National Telautograph Company, New York, N. Y. Telautographic apparatus. No. 1,127,083; Feb. 2; Gaz. vol. 211; p. 147.
- O'Neill, Henry W., Brooklyn, assignor to Gray National Telautograph Company, New York, N. Y. Telautographic apparatus. No. 1,128,492; Feb. 16; Gaz. vol. 211; p. 729.
- O'Neill, Henry W., Brooklyn, assignor to Gray National Telautograph Company, New York, N. Y. Telautographic apparatus. No. 1,128,493; Feb. 16; Gaz. vol. 211; p. 729.
- O'Neill, Joseph C., New York, N. Y. Suitcase. No. 1,150,057; Aug. 17; Gaz. vol. 217; p. 725.
- O'Neill, Joseph C., New York, N. Y. Dress-suit case. No. 1,150,058; Aug. 17; Gaz. vol. 217; p. 726.
- O'Neill, Joseph C., New York, N. Y. Combined lock and stay. No. 1,150,059; Aug. 17; Gaz. vol. 217; p. 726.
- O'Neill, Wesley, Russellville, Pa. Horseshoe. No. 1,131,858; Mar. 16; Gaz. vol. 212; p. 772.
- O'Quinn, Bryant J., Kissimmee, Fla. Protective housing for pictures and the like. No. 1,144,913; June 29; Gaz. vol. 215; p. 1463.
- O'Rawe, Alexander, Philadelphia, Pa. Projectile. No. 1,136,480; Apr. 20; Gaz. vol. 213; p. 933.
- O'Regan, James J., Woodhaven, N. Y. Type-writing machine. No. 1,141,651; June 1; Gaz. vol. 215; p. 201.
- O'Reilly, Henry G., Joliet, Ill. Safety device for blowing engines. No. 1,137,164; Apr. 27; Gaz. vol. 213; p. 1213.
- O'Reilly, Henry G., Joliet, Ill., and C. C. Sampson, Duluth, Minn. Valve mechanism. No. 1,126,843; Feb. 2; Gaz. vol. 211; p. 64.
- O'Reilly, William E., London, England. Safety razor. No. 1,157,249; Oct. 19; Gaz. vol. 219; p. 729.
- O'Rourke, John F., New York, N. Y. Device for determining load-carrying capacity of subterranean areas. No. 1,143,645; June 22; Gaz. vol. 215; p. 997.
- O'Rourke, John F., New York, N. Y. Flying-machine. No. 1,144,052; June 22; Gaz. vol. 215; p. 1138.
- O'Rourke, William F., Chicago, Ill. Grinding and polishing machine. No. 1,145,017; July 13; Gaz. vol. 216; p. 385.
- O'Shea, John E. (See Hurley and O'Shea.)
- O'Sullivan, Otho, Stonington, Conn. Loom beam-roll weight-lifter. No. 1,150,060; Aug. 17; Gaz. vol. 217; p. 727.
- O'Toole, Edward. (See Flexner and O'Toole.)
- O'Toole, Edward, Gary, W. Va. Mining-machine. No. 1,151,383; Aug. 24; Gaz. vol. 217; p. 1241.
- O'Toole, Edward, Gary, W. Va. Continuous mine-hoist. No. 1,165,017; Dec. 21; Gaz. vol. 221; p. 883.
- O'Toole, Thomas, Winnipeg, Manitoba, Canada. Spring-bed. No. 1,165,280; Dec. 21; Gaz. vol. 221; p. 976.
- Oak, Charley, Sidnaw, Mich. Brake for sleds. No. 1,137,163; Apr. 27; Gaz. vol. 213; p. 1212.
- Oakes, Ernest A., Seymour, Conn. Die-stock. No. 1,154,424; Sept. 21; Gaz. vol. 218; p. 796.
- Oakland Motor Car Company. (See Wahlberg, Nils E., assignor.)
- Oakley, Cyrus L., Carbondale, Pa. Woodworking-tool. No. 1,138,777; May 11; Gaz. vol. 214; p. 408.
- Oakley, Gaither F. (See Ruffner and Oakley.)
- Oaks, George W., Garrett, Pa. Dinner-pail. No. 1,129,714; Feb. 23; Gaz. vol. 211; p. 1188.
- Oare, Alonzo W., Herrick, Ill. Faucet. No. 1,154,048; Sept. 21; Gaz. vol. 218; p. 667.
- Oatman, Alfonso. (See Oatman, Clarence E. and A.)
- Oatman, Clarence E. and A., Battlefield, Greene county, assignors of one-third to G. E. Hoffman, Springfield, Mo. Adjustable wrench. No. 1,163,845; Dec. 14; Gaz. vol. 221; p. 435.
- Obenchain, Lloyd W., and D. B. De Long, Denver, Colo. Sanitary berry-box. No. 1,160,990; Nov. 16; Gaz. vol. 220; p. 995.
- Obenback, George, Niagara Falls, N. Y. Bowling-pin. No. 1,146,509; July 13; Gaz. vol. 216; p. 559.
- Oberer, Fredolien J., assignor of one-half to H. North, Portland, Oreg. Silo-bracing. No. 1,132,609; Mar. 23; Gaz. vol. 212; p. 1093.
- Oberg, August B., assignor to Mumford Molding Machine Company, Plainfield, N. J. Jolt-ramming machine. No. 1,133,394; Mar. 30; Gaz. vol. 212; p. 1413.
- Oberg, Henry, Bridgeport, Conn. Computing device. No. 1,133,565; Sept. 14; Gaz. vol. 218; p. 465.
- Oberg, John A., Bremerton, and J. R. Eckman, Puyallup, Wash. Revolving dining-room table. No. 1,139,564; May 18; Gaz. vol. 214; p. 721.
- Oberg, Walter, St. Edward, Neb. Newspaper-holder. No. 1,154,537; Sept. 21; Gaz. vol. 218; p. 833.
- Obergfell, Herbert F., Chicago, Ill. Bearing. No. 1,154,049; Sept. 21; Gaz. vol. 218; p. 668.
- Obergfell, Herbert F., assignor of one-third to T. G. Martin and one-third to J. Erickson, Chicago, Ill. Internal-combustion engine. No. 1,139,364; May 11; Gaz. vol. 214; p. 614.
- Oberhacke, Henry B., Los Angeles, Cal. Built-up structure of glass or the like. No. 1,158,144; Oct. 26; Gaz. vol. 219; p. 1104.
- Oberheim, Albert, Ogden, Utah. Dish-washing machine. No. 1,127,801; Feb. 9; Gaz. vol. 211; p. 440.
- Oberhelman, Edward F., et al. (See Hauss, Albert F., assignor.)
- Oberhoffer, Robert W., York, England. Tuning-peg of violin or like instruments. No. 1,135,314; Apr. 13; Gaz. vol. 213; p. 480.
- Oberkirch, Frank. (See Ashley and Oberkirch.)
- Oberle, Jacob F., Richmond, N. Y. Smoke-house. No. 1,152,965; Sept. 7; Gaz. vol. 218; p. 215.
- Oberly, Chester C., assignor to The Pullman Company, Chicago, Ill. Electric-lamp regulator. No. 1,134,346; Apr. 6; Gaz. vol. 213; p. 96.
- Obermaier, Charles A., Chicago, Ill. Friction-drive for motor-vehicles. No. 1,128,715; Feb. 16; Gaz. vol. 211; p. 805.
- Obert, Gustav, Danville, Ill. Valve. No. 1,147,968; July 27; Gaz. vol. 216; p. 1114.
- Obrecht, Norbert L., assignor to O. and S. Bearing Company, Detroit, Mich. Forming bearings. No. 1,129,116; Feb. 23; Gaz. vol. 211; p. 983.
- Obrecht, Norbert L., and N. Skillman, assignors to O. and S. Bearing Company, Detroit, Mich. Bearing. No. 1,141,974; June 8; Gaz. vol. 215; p. 347.
- Obsbourn, Thomas M., assignor to The O. Z. O. Jewelry Manufacturing Company, Chicago, Ill. Jewelry. No. 1,152,340; Aug. 31; Gaz. vol. 217; p. 1619.
- Ochs, Arthur H., Louisville, Ky. Spark-plug connector. No. 1,154,201; Sept. 21; Gaz. vol. 218; p. 718.
- Ochs, Karl, Berlin-Charlottenburg, assignor to Siemens & Halske, A. G., Siemensstadt, near Berlin, Germany. Apparatus for electrolysis of alkaline chlorides. No. 1,138,400; May 4; Gaz. vol. 214; p. 240.
- Ocken, John, Jr., Arcadia, Iowa. Toothpick-holder. No. 1,162,874; Dec. 7; Gaz. vol. 221; p. 49.
- Occumpaugh, Charles H., Rochester, N. Y. Flying-machine. No. 1,132,377; Mar. 16; Gaz. vol. 212; p. 960.
- Occumpaugh, Edmund, Rochester, N. Y. Platen mechanism. No. 1,142,977; June 15; Gaz. vol. 215; p. 739.
- Occumpaugh, Edmund, assignor to Defiance Machine Company, Rochester, N. Y. Ink-rolls for printing-machines. No. 1,139,710; May 18; Gaz. vol. 214; p. 774.
- Occumpaugh, Edmund, assignor to Defiance Machine Company, Rochester, N. Y. Printing device. No. 1,158,545; Nov. 2; Gaz. vol. 220; p. 49.
- Occumpaugh, Edmund, assignor to Defiance Machine Company, Rochester, N. Y. Check-printing machine. No. 1,160,643; Nov. 16; Gaz. vol. 220; p. 872.
- Occumpaugh, Edmund, assignor to Defiance Machine Company, Rochester, N. Y. Feed mechanism for printing-machines. No. 1,160,644; Nov. 16; Gaz. vol. 220; p. 873.

Alphabetical list of patentees—Continued.

- Ocuppaugh, Edmund, assignor to Defiance Machine Company, Rochester, N. Y. Check-protecting device. No. 1,160,645; Nov. 16; Gaz. vol. 220; p. 873.
- Ocuppaugh, Edmund, assignor to Defiance Machine Company, Rochester, N. Y. Check-writing machine. No. 1,160,646; Nov. 16; Gaz. vol. 220; p. 874.
- Ocuppaugh, Edmund, assignor to The Defiance Machine Company, Rochester, N. Y. Check-protector. No. 1,161,514; Nov. 23; Gaz. vol. 220; p. 1227.
- Ocuppaugh, Edmund, assignor to The Defiance Machine Company, Rochester, N. Y. Check-writer. No. 1,162,388; Nov. 30; Gaz. vol. 220; p. 1575.
- Ocuppaugh, Edmund, 2d, Rochester, N. Y. Adding attachment for check-printers. No. 1,134,551; Apr. 6; Gaz. vol. 213; p. 171.
- Ocuppaugh, Edmund, 2d, Rochester, N. Y. Printing-machine. No. 1,138,778; May 11; Gaz. vol. 214; p. 409.
- Ocuppaugh, Edmund, 2d, Rochester, N. Y. Printing device. No. 1,151,963; Aug. 31; Gaz. vol. 217; p. 1488.
- Ocuppaugh, Edmund, 2d, Rochester, N. Y. Printing-machine. No. 1,161,071; Nov. 23; Gaz. vol. 220; p. 1067.
- Ocuppaugh, Edmund, 2d, assignor to Defiance Machine Company, Rochester, N. Y. Printing-machine. No. 1,148,984; Aug. 3; Gaz. vol. 217; p. 177.
- Ocuppaugh, Edmund, 2nd, assignor to Defiance Machine Company, Rochester, N. Y. Printing-machine. No. 1,154,050; Sept. 21; Gaz. vol. 218; p. 668.
- Odabashian, Serop, Worcester, Mass. Machine for cleaning metal strips. No. 1,155,609; Oct. 5; Gaz. vol. 219; p. 99.
- Oddy, William D., assignor of one-half to Henry Richmond and Sons, Limited, Leeds, England. Foundry molding-machine. No. 1,137,658; Apr. 27; Gaz. vol. 213; p. 1386.
- Odell, Frederick C., Lynn, assignor to H. H. Hancock, Swampscott, Mass. Receptacle. No. 1,162,389; Nov. 30; Gaz. vol. 220; p. 1576.
- Odell, George A. (See Odell, John H., assignor.)
- Odell, John H., Kinzua, Pa., assignor of one-third to G. A. Odell, Salamanca, N. Y. Carbureter. No. 1,135,315; Apr. 13; Gaz. vol. 213; p. 480.
- Odell, Robert C., assignor to The Newark Spring Mattress Company, Newark, N. J. Bed-bottom. No. 1,157,798; Oct. 26; Gaz. vol. 219; p. 982.
- Oden, Rodman, Chicago, Ill. Differential gear for motor-propelled vehicles. No. 1,126,264; Jan. 26; Gaz. vol. 210; p. 1197.
- Oden, Thomas K., Sacramento, Cal. Automatic fange-oiler. No. 1,162,094; Nov. 30; Gaz. vol. 220; p. 1475.
- Odenwald, John J., Washington, D. C. Electric chair. No. 1,164,205; Dec. 14; Gaz. vol. 221; p. 558.
- Odette, Edmund G., Jackson, Mich. Vehicle-top. No. 1,164,852; Dec. 21; Gaz. vol. 221; p. 827.
- Odineal, David T. (See Berry and Odineal.)
- Odmark, August E., Muskegon, Mich. Vermin-exterminator for poultry-perches. No. 1,155,088; Sept. 28; Gaz. vol. 218; p. 1053.
- Odums, Rachel C., Gibbon, Nebr. Dish-rag holder. No. 1,139,565; May 18; Gaz. vol. 214; p. 721.
- Oedeker, Martinus H. G., assignor to The Dairy Cream Separator Co., Lebanon, Ind. Centrifugal speedometer for separators. No. 1,136,706; Apr. 20; Gaz. vol. 213; p. 1012.
- Oeffering, Charles. (See McKenzie, Thomas W., assignor.)
- Oeffter, William F., Detroit, Mich. Gas-lamp control and igniter. No. 1,132,485; Mar. 16; Gaz. vol. 212; p. 999.
- Oehler, De Witt C., Hopkinton, Iowa. Axle-clip. No. 1,133,173; Mar. 23; Gaz. vol. 212; p. 1300.
- Oehler, Max, Richfield, Idaho. Mechanical toy. No. 1,136,707; Apr. 20; Gaz. vol. 213; p. 1013.
- Oehler, Max, St. Louis, Mo. Machine for cutting fat. No. 1,157,799; Oct. 26; Gaz. vol. 219; p. 982.
- Oelker, Edward. (See Ricke, George H., assignor.)
- Oelker, Edward B., and F. C. Ludlow, Cincinnati, Ohio. Portable heater. No. 1,160,949; Nov. 16; Gaz. vol. 220; p. 980.
- Oelkers, John B., Newark, N. J. Clamping-support. No. 1,143,990; June 22; Gaz. vol. 215; p. 1115.
- Oesterla, Adam C., Eddestone, Pa. Window-screen. No. 1,128,815; Feb. 16; Gaz. vol. 211; p. 841.
- Oesterlein, Charles D., assignor to The Oesterlein Machine Company, Cincinnati, Ohio. Milling-machine feed mechanism. No. 1,138,010; May 4; Gaz. vol. 214; p. 100.
- Oesterlein Machine Company, The. (See Oesterlein, Charles D., assignor.)
- Oesterlein, Otto, and K. C. Müller, Zweibrücken, Germany. Gas-burner. No. 1,164,854; Dec. 21; Gaz. vol. 221; p. 827.
- Oesterreichische Waffenfabriks-Gesellschaft. (See Duffek, Josef, assignor.)
- Oestreich, Henry N. (See Oestreich, Maurice J. and H. N.)
- Oestreich, Maurice J. and H. N., Philadelphia, Pa. Convertible reflector for lamps. No. 1,160,950; Nov. 16; Gaz. vol. 220; p. 981.
- Oeth, Charles P., Mount Vernon, Ind. Corn-shelling machine. No. 1,138,779; May 11; Gaz. vol. 214; p. 409.
- Offerman, Joseph P., Beaver Dam, Wis. Dust-proof journal-bearing. No. 1,131,857; Mar. 16; Gaz. vol. 212; p. 771.
- Offerman, William, assignor to D. Saunders' Sons, Yonkers, N. Y. Pipe-threading machine. No. 1,144,333; June 22; Gaz. vol. 215; p. 1237.
- Office Appliance Manufacturing Company. (See White, Samuel B., assignor.)
- Office Specialty Manufacturing Company, The. (See Schmidt, Robert F., assignor.)
- Officer, Robert, North Grafton, Mass. Lacing for shoes, &c. No. 1,150,616; Aug. 17; Gaz. vol. 217; p. 923.
- Officer, Thomas, Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Tool-actuating device. No. 1,129,420; Feb. 23; Gaz. vol. 211; p. 1089.
- Offiter, Charles A., St. Louis, Mo. Machine-shop work-support. No. 1,154,333; Sept. 21; Gaz. vol. 218; p. 765.
- Ofutt, William N., Sr., Medford, Oreg. Hinge. No. 1,154,538; Sept. 21; Gaz. vol. 218; p. 834.
- Ogan, George W., Danville, Ill. Kiln for burning clay products and the like. No. 1,147,117; July 20; Gaz. vol. 216; p. 789.
- Ogarek, Frank, Carteret, N. J. Railway-tie and fastener. No. 1,162,095; Nov. 30; Gaz. vol. 220; p. 1475.
- Ogburn, Arthur R., Newton, Iowa. Machine-brake. No. 1,139,566; May 18; Gaz. vol. 214; p. 722.
- Ogden, Abraham B., Urmston, Manchester, England. Apparatus for drying the sludge or solid matter recovered from sewage. No. 1,135,390; Apr. 13; Gaz. vol. 213; p. 506.
- Ogden, Allen A., Wolbach, Nebr. Neck-yoke attachment. No. 1,155,089; Sept. 28; Gaz. vol. 218; p. 1053.
- Ogden, Carlton N., Houston, Tex. Vending-machine. No. 1,139,711; May 18; Gaz. vol. 214; p. 774.
- Ogden, George, et al. (See Minnie, Charles A., assignor.)
- Ogden, J. Edward. (See Goss, Harry T., assignor.)
- Ogden, John C., Westmont borough, Pa. Method and apparatus for molding. No. 1,134,404; Apr. 6; Gaz. vol. 213; p. 117.
- Ogden, John E., Brooklyn, N. Y. Torsional-grip cable-hanger. No. 1,151,215; Aug. 24; Gaz. vol. 217; p. 1187.
- Ogden, John E., Mountainville, N. Y. Cable-clamp. No. 1,151,380; Aug. 24; Gaz. vol. 217; p. 1240.
- Ogden, John E. L., Liscard, England. Pressure-pump and vacuum-trap. No. 1,134,405; Apr. 6; Gaz. vol. 213; p. 117.
- Ogg, James. (See Johnson and Ogg.)
- Ogg, James, Pahala, Hawaii. Sugar-cane mill. No. 1,124,643; Jan. 12; Gaz. vol. 210; p. 551.
- Ogg, James, Pahala, Hawaii. Grooving for rollers of sugar-cane mills. No. 1,145,844; July 6; Gaz. vol. 216; p. 304.
- Ogilvie, Alec, Eastchurch, Sheppey, England. Anemometer. No. 1,146,202; July 13; Gaz. vol. 216; p. 449.
- Ogilvie, Frederick H., Jersey City, N. J., assignor to Wisner Manufacturing Company, New York, N. Y. Cleaning apparatus. No. 1,141,139; June 1; Gaz. vol. 215; p. 17.
- Ogilvie, John J., and F. F. Dier, Ottawa, Ontario, Canada. Water-level indicator. No. 1,127,084; Feb. 2; Gaz. vol. 211; p. 148.
- Oglesby, George T., Frankfort, Ind. Stove. No. 1,129,715; Feb. 23; Gaz. vol. 211; p. 1189.
- Ogrissee, George A., and J. Jaworsky, Los Angeles, Cal. Aircraft. No. 1,157,636; Oct. 19; Gaz. vol. 219; p. 859.
- Ohio Brass Company, The. (See Allerdig, Cletus N., assignor.)
- Ohio Brass Company, The. (See Bolus, Glenn H., assignor.)
- Ohio Brass Company, The. (See Denneen, Francis S., assignor.)
- Ohio Brass Company, The. (See Gierding, Charles E., assignor.)
- Ohio Brass Company, The. (See Kempton, Willard H., assignor.)
- Ohio Brass Company, The. (See Mead and Kempton, assignors.)
- Ohio Brass Company, The. (See Starkey, William C., assignor.)
- Ohio Brass Company, The. (See Starkey and Bolus, assignors.)
- Ohio & Colorado Smelting & Refining Co., The. (See Hubbard, William H., Jr., assignor.)
- Ohio Grease Company, The. (See Lowry, Frank, assignor.)
- Ohio Match Company, The. (See Parker, Lucian E., assignor.)
- Ohio Match Company, The. (See Weaver and Welker, assignors.)
- Ohio Match Company, The. (See Welker, Alvin D., assignor.)
- Ohio Match Company, The. (See Young and Welker, assignors.)
- Ohio Pump & Brass Company, The. (See Weber, Mathew J., assignor.)
- Ohio Rake Company, The. (See Trissel, Frank N., assignor.)
- Ohio Salt Company, The. (See Laib, Walter, assignor.)
- Ohio Varnish Company, The. (See McElhenie, Thomas J., assignor.)
- Ohl, August A. C., Altona, Germany. Attachment for the handle of brooms and the like. No. 1,160,440; Nov. 16; Gaz. vol. 220; p. 797.

- Ohlhart, George P. (See Oliver and Ohlhart.)
 Ohlman, Henry C. (See Larson, Chris, assignor.)
 Ohlsen, Ulrich, assignor of one-half to M. Mortensen, Denver, Colo. Flooring-tool. No. 1,153,106; Sept. 7; Gaz. vol. 218; p. 262.
 Ohlson, Olof, West Newton, Mass. Flexible shaft or chain. No. 1,146,015; July 13; Gaz. vol. 216; p. 384.
 Ohlson, Olof, West Newton, assignor to Waltham Watch Company, Waltham, Mass. Clock-mounting. No. 1,145,698; July 6; Gaz. vol. 216; p. 253.
 Ohlson, Olof, West Newton, assignor to Waltham Watch Company, Waltham, Mass. Control for the setting and winding stem of watches. No. 1,145,699; July 6; Gaz. vol. 216; p. 253.
 Ohmer Fare Register Company. (See Fefell, Henry H., assignor.)
 Ohmer Fare Register Company. (See Ohmer and Bridenbaugh, assignors.)
 Ohmer, John F., and E. H. Bridenbaugh, assignors to Ohmer Fare Register Company, Dayton, Ohio. Taximeter. No. 1,136,164; Apr. 20; Gaz. vol. 213; p. 818.
 Ohmer, John F., Dayton, Ohio, and E. H. Bridenbaugh, Denver, Colo., assignors to Ohmer Fare Register Company, Dayton, Ohio. Resetting mechanism for counters. No. 1,166,383; Dec. 28; Gaz. vol. 221; p. 1406.
 Ohmer, Wilfred L., and J. E. McAllister, assignors to The Recording and Computing Machines Company, Dayton, Ohio. Machine for making and recording certificates and the like. No. 1,139,567; May 18; Gaz. vol. 214; p. 722.
 Ohnemus, Anton, assignor to Excelsior Stove and Mfg. Co., Quincy, Ill. Water-pan attachment for hot-air furnaces. No. 1,127,085; Feb. 2; Gaz. vol. 211; p. 149.
 Ohnemus, John P., Vincennes, Ind. Ball-bearing. No. 1,146,510; July 13; Gaz. vol. 216; p. 560.
 Ohnstrand, Enoch, assignor to U. S. Steel Furniture Company, Syracuse, N. Y. Drawer-locking mechanism. No. 1,124,791; Jan. 12; Gaz. vol. 210; p. 602.
 Ohnstrand, Enoch, assignor to U. S. Steel Furniture Company, Syracuse, N. Y. Furniture. No. 1,153,946; Sept. 21; Gaz. vol. 218; p. 632.
 Ohnstrand, Enoch, assignor to U. S. Steel Furniture Company, Syracuse, N. Y. Furniture. No. 1,153,947; Sept. 21; Gaz. vol. 218; p. 632.
 Ohnstrand, Enoch, assignor to U. S. Steel Furniture Company, Syracuse, N. Y. Drawer-locking mechanism. No. 1,157,932; Oct. 19; Gaz. vol. 219; p. 652.
 Ohnstrand, Enoch, assignor to O. M. Edwards, Syracuse, N. Y. Extension flush bolt for doors. No. 1,162,945; Dec. 7; Gaz. vol. 221; p. 73.
 Ohr, Leo E., Biloxi, Miss. Bearing for connecting-rods. No. 1,139,216; May 11; Gaz. vol. 214; p. 564.
 Oil Refining Improvements Company, The. (See Hood and Salamoni, assignors.)
 Oil Well Improvements Company, The. (See Heggem, Alfred G., assignor.)
 Oil Well Supply Company. (See Cogswell, Arthur B., assignor.)
 Oil Well Supply Company. (See Greve, Edgar E., assignor.)
 Oil Well Supply Company. (See Mack, Patrick H. and F. H., assignors.)
 Oilar, Rozyer D., Indianapolis, Ind. Underwear. No. 1,137,659; Apr. 27; Gaz. vol. 213; p. 1386.
 Oiler, Frank E., Omaha, Nebr., assignor to Positive Print Machine and Paper Co. Camera provided with automatic fluid-treating mechanism. No. 1,153,386; Oct. 26; Gaz. vol. 219; p. 1189.
 Olster, Anton, Unter Siska, near Laibach, Austria-Hungary. Parachute device. No. 1,138,140; May 4; Gaz. vol. 214; p. 148.
 Ojala, Otto, Virginia, Minn. Clothes-lifter. No. 1,147,425; July 20; Gaz. vol. 216; p. 898.
 Ojala, Otto, Virginia, Minn. Automobile headlight-turning device. No. 1,150,381; Aug. 17; Gaz. vol. 217; p. 841.
 Okamoto, Kenkichi, San Francisco, Cal. Game apparatus. No. 1,144,051; June 22; Gaz. vol. 215; p. 1138.
 Oker, Andrew. (See Hoff, Charles, assignor.)
 Oklahoma Paper Company. (See Burt, William J., assignor.)
 Okun, Morris B., Chicago, Ill. Bedstead-corner. No. 1,126,068; Jan. 26; Gaz. vol. 210; p. 1125.
 Olafson, Halvor, Bowdon, N. D. Sliding door for automobile-bodies. No. 1,143,062; June 15; Gaz. vol. 215; p. 769.
 Oland, Charles D. (See Stansell and Oland.)
 Olandt, Robert H., Long Island City, N. Y. Internal-combustion engine. No. 1,155,434; Oct. 5; Gaz. vol. 219; p. 38.
 Olerding, Anthony G., and T. Elliott, Cincinnati, Ohio, assignors to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,145,031; July 6; Gaz. vol. 216; p. 20.
 Olberg, Charles K., assignor to Hale and Kilburn Company, Philadelphia, Pa. Composite door. No. 1,159,411; Nov. 9; Gaz. vol. 220; p. 381.
 Olesvary, Louis, Lemont Furnace, Pa. Car-coupling. No. 1,139,217; May 11; Gaz. vol. 214; p. 564.
 Older, Clifford, Springfield, C. M. Slaymaker, Ottawa, and H. E. Bilger, Springfield, Ill. Culvert-core. No. 1,154,720; Sept. 28; Gaz. vol. 218; p. 926.
 Oldfield, William H., Rochester, N. Y. Trap. No. 1,153,247; Sept. 14; Gaz. vol. 218; p. 349.
 Oldham, Frank, Dallas, Tex. Spraying attachment for cultivators. No. 1,156,622; Oct. 12; Gaz. vol. 219; p. 477.
 Oldham, Jesse V., Falmouth, Ky. Loading and unloading truck. No. 1,148,531; Aug. 3; Gaz. vol. 217; p. 17.
 Oldham, Samuel, Philadelphia, Pa. Clutch for a pneumatic hammer. No. 1,141,206; June 1; Gaz. vol. 215; p. 41.
 Oldham, Samuel, Philadelphia, Pa. Jack hammer-drill. No. 1,141,650; June 1; Gaz. vol. 215; p. 201.
 Oldroyd, Walter J., Hartford, assignor to George P. Clark Company, Windsor Locks, Conn. Elevating-truck. No. 1,135,545; Apr. 13; Gaz. vol. 213; p. 560.
 Olds Motor Works, The. (See Muzzy, William H., assignor.)
 Olds, Ransom E., Lansing, Mich. Power lawn-mower. No. 1,131,156; Mar. 9; Gaz. vol. 212; p. 489.
 Olejnik, Robert F., New York, N. Y. Shock-absorber. No. 1,128,179; Feb. 9; Gaz. vol. 211; p. 572.
 Olen, Otto L., Clintonville, Wis. Power-transmitting mechanism. No. 1,163,846; Dec. 14; Gaz. vol. 221; p. 436.
 Oler, Thomas C., Iowa Falls, Iowa. Milking-stool. No. 1,138,781; May 11; Gaz. vol. 214; p. 410.
 Olesberg, Albert H., Bawlf, Alberta, Canada. Automatic leveling device for tripods. No. 1,135,914; Apr. 13; Gaz. vol. 213; p. 690.
 Olfort, Axel, Chicago, Ill. Hobby-horse. No. 1,147,883; July 27; Gaz. vol. 216; p. 1084.
 Oligher, Claire J., Derry, Pa. Rail-joint. No. 1,161,788; Nov. 23; Gaz. vol. 220; p. 1321.
 Olin, Robert R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heel-mold-washing machine. No. 1,159,077; Nov. 2; Gaz. vol. 220; p. 230.
 Olinger, Thomas. (See Conkey, Leonard L., assignor.)
 Oliphant, Alfred. (See Criner, Harry J., assignor.)
 Olive, J. E., et al. (See Duval, Allen, assignor.)
 Olive, Oliver H., Indianola, Iowa. Water-motor. No. 1,157,416; Oct. 19; Gaz. vol. 219; p. 788.
 Oliver, Abraham T., Tamaqua, Pa. Draft-regulator for heating-furnaces. No. 1,152,751; Sept. 7; Gaz. vol. 218; p. 136.
 Oliver, Alfred S., Jr., Medical Lake, Wash. Gasolene or like can. No. 1,127,670; Feb. 9; Gaz. vol. 211; p. 389.
 Oliver, Arthur A., Calera, Ala. Frictional pawl. No. 1,142,462; June 8; Gaz. vol. 215; p. 518.
 Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
 Oliver Chilled Plow Works. (See Milliken, Norman I., assignor.)
 Oliver Chilled Plow Works. (See Paul, William L., assignor.)
 Oliver, Doctor F., Oakland, Cal. Extension-table. No. 1,134,000; Mar. 30; Gaz. vol. 212; p. 1625.
 Oliver, Doctor F., Oakland, Cal. Shock-absorber and recoil-check. No. 1,151,036; Aug. 24; Gaz. vol. 217; p. 1125.
 Oliver, Doctor F., San Francisco, Cal. Combined cushioning and rebound-checking device for vehicles. No. 1,152,752; Sept. 7; Gaz. vol. 218; p. 136.
 Oliver, Douglas H. (See Lindsay and Oliver.)
 Oliver, Edd C., Detroit, Mich. Time-controlled mechanism. No. 1,162,390; Nov. 30; Gaz. vol. 220; p. 1576.
 Oliver, Elam A., Belleville, Wis. Pail-stool. No. 1,138,141; May 4; Gaz. vol. 214; p. 149.
 Oliver, Elmer, Daytona, Fla. Tire-filling composition. No. 1,123,787; Jan. 5; Gaz. vol. 210; p. 202.
 Oliver, Elmer, Daytona, Fla. Process of filling tires. No. 1,162,306; Nov. 30; Gaz. vol. 220; p. 1549.
 Oliver, Fred S., San Francisco, Cal. Carbureting apparatus. No. 1,146,441; July 13; Gaz. vol. 216; p. 534.
 Oliver, Fred S., San Francisco, Cal. Gravity-valve. No. 1,161,243; Nov. 23; Gaz. vol. 220; p. 1131.
 Oliver, Herbert R., and G. P. Ohlhart, assignors to The American Automatic Shoe Polishing Machine Company, Baltimore, Md. Shoe-polishing machine. No. 1,131,613; Mar. 9; Gaz. vol. 212; p. 648.
 Oliver, Immanuel A., Eden Vale, Cal. Motor-cycle saddle. No. 1,153,817; Sept. 14; Gaz. vol. 218; p. 553.
 Oliver, James. (See Oliver, Thomas A. and J.)
 Oliver, Lott D., assignor of one-half to L. H. Thompson, Blackwell, Okla. Brick-kiln. No. 1,144,334; June 22; Gaz. vol. 215; p. 1237.
 Oliver, Nathan A., Mattapoisett, Mass. Brake-applying mechanism for trains. No. 1,133,497; Mar. 30; Gaz. vol. 212; p. 1449.
 Oliver, Thomas A. and J., Philadelphia, Pa. Athletic ball. No. 1,140,845; May 25; Gaz. vol. 214; p. 1205.
 Oliver Typewriter Company, The. (See Cromer and Harting, assignors.)
 Oliver Typewriter Company, The, et al. (See Schneeloch, August, assignor.)
 Oliver, Walter E., assignor to Park Bros. & Rogers, Providence, R. I. Support for soft collars. No. 1,123,573; Jan. 5; Gaz. vol. 210; p. 128.
 Olivero, Luigi, Genoa, Italy. Car-coupling. No. 1,163,447; Dec. 7; Gaz. vol. 221; p. 250.
 Ollard, James C., Tacoma, Wash. Trolley-wheel. No. 1,141,406; June 1; Gaz. vol. 215; p. 115.

Alphabetical list of patentees—Continued.

- Ollard, James C., Tacoma, Wash. Trolley-harp. No. 1,141,407; June 1; Gaz. vol. 215; p. 115.
- Olley, Raymond H., North Tonawanda, assignor to Crouse-Hinds Company, Syracuse, N. Y. Electrical appliance. No. 1,126,842; Feb. 2; Gaz. vol. 211; p. 64.
- Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Binding device for panel-boards. No. 1,166,149; Dec. 28; Gaz. vol. 221; p. 1320.
- Ollivetti, James I. (See Graves and Ollivetti.)
- Olm, Oscar J., assignor of one-half to G. Monasch, Minneapolis, Minn. Lock. No. 1,139,218; May 11; Gaz. vol. 213; p. 564.
- Olmsted, Alexander H., Bowden, England. Voltage-regulator for electric generators. No. 1,162,506; Nov. 30; Gaz. vol. 220; p. 1617.
- Olmsted, Alexander H., Altrincham, England. Voltage-regulator. No. 1,166,150; Dec. 28; Gaz. vol. 221; p. 1321.
- Olmsted, Charles M., Buffalo, N. Y. Spinning device. No. 1,138,142; May 4; Gaz. vol. 214; p. 149.
- Olmsted, Charles M., Pasadena, Cal. Aerial toy. No. 1,138,401; May 4; Gaz. vol. 214; p. 241.
- Olmsted, Norman K., assignor to Deere & Company, Moline, Ill. Draft device. No. 1,141,259; June 1; Gaz. vol. 215; p. 59.
- Olmsted, Perry, Los Angeles, Cal. Drafting instrument. No. 1,143,431; June 15; Gaz. vol. 215; p. 690.
- Olney, Harry W., Spokane, Wash. Electric burglar, fire, and general alarm. No. 1,158,146; Oct. 26; Gaz. vol. 219; p. 1104.
- Olney, Joseph W., assignor of one-third to J. S. McDonald, Latah, Wash. Sewing-needle. No. 1,134,001; Mar. 30; Gaz. vol. 212; p. 1625.
- Olofson, Carl. (See Larson and Olofson.)
- Olsen, Andrew, et al. (See Fanning, Charles E., assignor.)
- Olsen, Axel R. (See Lee, Waldo J., assignor.)
- Olsen, Carl, and W. C. Stautzenberger, Beeville, Tex. Device for catching insects. No. 1,142,614; June 8; Gaz. vol. 215; p. 573.
- Olsen, Emil. (See Armstrong and Olsen.)
- Olsen, Fred, and A. Lyberg, Minneapolis, Minn. Means for promoting combustion. No. 1,146,093; July 13; Gaz. vol. 216; p. 412.
- Olsen, George A., Chicago, Ill., assignor to Chicago Shipping & Receipt Book Company. Loose-leaf binder. No. 1,145,432; July 6; Gaz. vol. 216; p. 159.
- Olsen, Hilding, et al. (See Nichols, Perry J., assignor.)
- Olsen, John A., Honolulu, Hawaii, assignor to California Fruit Cannery Association, San Francisco, Cal. Machine for removing the pulp from previously-separated pineapple-peel. No. 1,138,143; May 4; Gaz. vol. 214; p. 150.
- Olsen, Nels, Menominee, Mich. Accounts-delivery cabinet. No. 1,155,954; Oct. 5; Gaz. vol. 219; p. 219.
- Olsen, Olaf, San Francisco, Cal. Paper-file. No. 1,164,855; Dec. 21; Gaz. vol. 221; p. 828.
- Olsen, Olaf P. (See Stenerson, Ole, assignor.)
- Olsen, Olaf P. L., Eugene, Oreg. Ventilated can-closure. No. 1,128,033; Feb. 9; Gaz. vol. 211; p. 521.
- Olsen, Peter, Copenhagen, Denmark. Safety-lock. No. 1,131,542; Mar. 9; Gaz. vol. 212; p. 623.
- Olsen, Robert E., Seattle, Wash. Vehicle-spring. No. 1,146,273; July 13; Gaz. vol. 216; p. 474.
- Olsen, Sigward. (See Brookfield and Olsen.)
- Olsen, Tinius, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Proof-testing machine. No. 1,141,822; June 1; Gaz. vol. 215; p. 257.
- Olsen, Tinius, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Machine for testing hardness. No. 1,141,881; June 1; Gaz. vol. 215; p. 277.
- Olsen, Victor, Chicago, Ill. Paper-weight. No. 1,131,261; Mar. 9; Gaz. vol. 212; p. 526.
- Olson, Alfred. (See Hesketh and Olson.)
- Olson, Alfred F., Vermilion, S. D. Lantern-carrier. No. 1,154,879; Sept. 28; Gaz. vol. 218; p. 979.
- Olson, Andrew G. (See Green and Olson.)
- Olson, Axel R. (See Lee, Waldo J., assignor.)
- Olson, Bernard G., Chinook, Mont. Shoe-lace fastener. No. 1,142,199; June 8; Gaz. vol. 215; p. 428.
- Olson, Bror E., Stockholm, Saskatchewan, Canada. Extension-table. No. 1,143,853; June 22; Gaz. vol. 215; p. 1068.
- Olson, Carl, Canton, Ohio, assignor to The Canton Art Metal Company. Metal furniture. No. 1,148,330; July 27; Gaz. vol. 216; p. 1245.
- Olson, Carl A., Milan, Minn. Tractor. No. 1,166,246; Dec. 28; Gaz. vol. 221; p. 1357.
- Olson, Charles J., Muskegon, Mich. Boring and drilling machine. No. 1,132,113; Mar. 16; Gaz. vol. 212; p. 863.
- Olson, Charles J., Muskegon, Mich. Fluid-pressure motor. No. 1,138,969; May 11; Gaz. vol. 214; p. 476.
- Olson, Edward, Pencer, Minn. Harrow. No. 1,136,043; Apr. 20; Gaz. vol. 213; p. 777.
- Olson, Edwin J. (See Jones and Olson.)
- Olson, Edwin N., Bellingham, Wash. Potato-stripper. No. 1,154,539; Sept. 1; Gaz. vol. 218; p. 834.
- Olson, Elias, Jewell Junction, Iowa. Music-leaf turner. No. 1,139,438; May 11; Gaz. vol. 214; p. 642.
- Olson, Emil, Rochester, N. Y. Sash-holder. No. 1,138,242; May 4; Gaz. vol. 214; p. 181.
- Olson, Emma M., Carlton, Oreg. Darning-last. No. 1,140,705; May 25; Gaz. vol. 214; p. 1156.
- Olson, Emon A., Orofino, Idaho. Saw-handle. No. 1,123,788; Jan. 5; Gaz. vol. 210; p. 202.
- Olson, Fredrik, Stony Butte, Mont. Lifting-jack. No. 1,139,568; May 18; Gaz. vol. 214; p. 723.
- Olson, George, administrator. (See Simon, Carl G.)
- Olson, Gustaf. (See Greenberg and Olson.)
- Olson, Gustav A., Albert Lea, Minn. Stanchion. No. 1,165,999; Dec. 28; Gaz. vol. 221; p. 1265.
- Olson, John, Clearfield, Pa. Railway-tie and fastener. No. 1,152,206; Aug. 31; Gaz. vol. 217; p. 1571.
- Olson, John, Belgrade, Mo. Wire-fence stretcher. No. 1,157,324; Oct. 19; Gaz. vol. 219; p. 755.
- Olson, John P., Beresford, S. D. Watering-trough. No. 1,150,877; Aug. 24; Gaz. vol. 217; p. 1072.
- Olson, Karl E., Irvington, N. J. Making imitation gold or colored leaf. No. 1,158,265; Oct. 26; Gaz. vol. 219; p. 1145.
- Olson, Karl E., Irvington, N. J. Apparatus for the manufacture of imitation metal foil or leaf. No. 1,165,440; Dec. 28; Gaz. vol. 221; p. 1070.
- Olson, Louis T., Detroit, Mich. Steering and draft apparatus for trailers. No. 1,162,946; Dec. 7; Gaz. vol. 221; p. 73.
- Olson, Nels, Minden, Nebr. Combination framing-tool. No. 1,142,527; June 8; Gaz. vol. 215; p. 544.
- Olson, Nels A. (See Jensen and Olson.)
- Olson, Nels G., Wyandot township, Bureau county, Ill. Watering-trough. No. 1,158,831; Nov. 2; Gaz. vol. 220; p. 149.
- Olson, Nels L., Highland Park, Mich. Draft-wheel. No. 1,151,381; Aug. 24; Gaz. vol. 217; p. 1240.
- Olson, Oscar B. (See Kennedy and Olson.)
- Olson, Ottin, Minneapolis, Minn. Smoke-consumer. No. 1,134,553; Apr. 6; Gaz. vol. 213; p. 172.
- Olson, Otto E., Red Wing, Minn. Float water-feed control. No. 1,161,958; Nov. 30; Gaz. vol. 220; p. 1428.
- Olson, Otto V., assignor to Automatic Electric Company, Chicago, Ill. Automatic trunking system. No. 1,160,951; Nov. 16; Gaz. vol. 220; p. 981.
- Olson, Samuel, Chicago, Ill. Conveyor system. No. 1,135,316; Apr. 13; Gaz. vol. 213; p. 480.
- Olson, Samuel, Chicago, Ill. Store-service conveyor system. No. 1,142,453; June 8; Gaz. vol. 215; p. 519.
- Olson, Thomas C. (See Korsmo and Olson.)
- Olson, Viggo, Caledonia, Minn. Trap-setter. No. 1,145,789; July 6; Gaz. vol. 216; p. 284.
- Olsson, Axel H., and H. B. M. Pleijel, Stockholm, Sweden. Self-induction coil for duplex or multiplex telephone connections. No. 1,148,792; Aug. 3; Gaz. vol. 217; p. 111.
- Olsson, Carl M. T., Saltsjöbaden, Sweden. Furnace for heating gases or the like. No. 1,148,331; July 27; Gaz. vol. 216; p. 1245.
- Olsson, Henning A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-retainer for ball-bearings subjected to axial pressure. No. 1,135,044; Apr. 13; Gaz. vol. 213; p. 388.
- Olstad, Hans, Elsworth, N. D. Foot-lever for grindstones. No. 1,144,875; June 29; Gaz. vol. 215; p. 1280.
- Olstad, Martin T., Greenport, N. Y. Flagstaff. No. 1,134,002; Mar. 30; Gaz. vol. 212; p. 1625.
- Olswang Bros. & Co. (See Jensen, Olaus, assignor.)
- Olthoff, Frank H., Kent, Ill. Toy pistol. No. 1,155,320; Sept. 28; Gaz. vol. 218; p. 1128.
- Öman, Erik, Stockholm, Sweden. Producing sulfite cellulose. No. 1,130,192; Mar. 2; Gaz. vol. 212; p. 123.
- Oman, Frank W., Spokane, Wash. Water-motor. No. 1,123,357; Jan. 5; Gaz. vol. 210; p. 56.
- Oman, Reuben B., Willmar, Minn. Reversible variable-speed drive. No. 1,155,368; Oct. 5; Gaz. vol. 219; p. 15.
- Omaye, Jhoichi, Seattle, Wash. Stopper-extractor. No. 1,146,649; July 13; Gaz. vol. 216; p. 606.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Overseaming-machine. No. 1,123,574; Jan. 5; Gaz. vol. 210; p. 128.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,123,575; Jan. 5; Gaz. vol. 210; p. 129.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Multiple-needle chain-stitch machine. No. 1,123,576; Jan. 5; Gaz. vol. 210; p. 129.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 1,123,577; Jan. 5; Gaz. vol. 210; p. 130.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper mechanism for sewing-machines. No. 1,123,578; Jan. 5; Gaz. vol. 210; p. 130.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 1,123,579; Jan. 5; Gaz. vol. 210; p. 131.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,124,322; Jan. 12; Gaz. vol. 210; p. 433.

Alphabetical list of patentees—Continued.

- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,124,323; Jan. 12; Gaz. vol. 210; p. 433.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 1,124,324; Jan. 12; Gaz. vol. 210; p. 434.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,126,265; Jan. 26; Gaz. vol. 210; p. 1198.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing-machines. No. 1,129,586; Feb. 23; Gaz. vol. 211; p. 1148.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,129,587; Feb. 23; Gaz. vol. 211; p. 1148.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread-controller for sewing-machines. No. 1,129,588; Feb. 23; Gaz. vol. 211; p. 1149.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 1,129,589; Feb. 23; Gaz. vol. 211; p. 1149.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 1,129,590; Feb. 23; Gaz. vol. 211; p. 1150.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,129,591; Feb. 23; Gaz. vol. 211; p. 1150.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,129,592; Feb. 23; Gaz. vol. 211; p. 1151.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing-machines. No. 1,129,593; Feb. 23; Gaz. vol. 211; p. 1151.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread-controller for sewing-machines. No. 1,129,594; Feb. 23; Gaz. vol. 211; p. 1151.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,132,680; Mar. 23; Gaz. vol. 212; p. 1118.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,132,963; Mar. 23; Gaz. vol. 212; p. 1223.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,132,964; Mar. 23; Gaz. vol. 212; p. 1224.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,132,965; Mar. 23; Gaz. vol. 212; p. 1224.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,132,966; Mar. 23; Gaz. vol. 212; p. 1225.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,132,967; Mar. 23; Gaz. vol. 212; p. 1225.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Blindstitch sewing-machine. No. 1,132,968; Mar. 23; Gaz. vol. 212; p. 1225.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Loop-retainer for sewing-machines. No. 1,137,783; May 4; Gaz. vol. 214; p. 22.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for overseaming cup-feed machines. No. 1,137,784; May 4; Gaz. vol. 214; p. 22.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Tucking-guide for sewing-machines. No. 1,139,062; May 11; Gaz. vol. 214; p. 510.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Ruffling sewing-machine. No. 1,140,763; May 25; Gaz. vol. 214; p. 1175.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,142,359; June 8; Gaz. vol. 215; p. 484.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread-controller for sewing-machines. No. 1,142,360; June 8; Gaz. vol. 215; p. 484.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Take-up mechanism for sewing-machines. No. 1,144,498; June 29; Gaz. vol. 215; p. 1321.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine feeding and ruffling mechanism. No. 1,156,545; Oct. 12; Gaz. vol. 219; p. 450.
- Ondra, Frank, assignor of one-half to M. Pollak, Johannesburg, Transvaal, South Africa. Percussive tool with detachable cutter. No. 1,135,546; Apr. 13; Gaz. vol. 213; p. 561.
- One-Piece Bifocal Lens Company. (See Conner, Charles W., assignor.)
- One-Piece Bifocal Lens Company. (See Hall, William P., assignor.)
- Oneal, Rodolphus A., Oakland, Cal. Railway-tie. No. 1,124,644; Jan. 12; Gaz. vol. 210; p. 551.
- Oneida Community. (See Ricker, Frank S., assignor.)
- Oneida Knitting Co. (See Nissen, John P., assignor.)
- Onsel, John, Risingsun, Ohio. Sharpener for lawn-mowers. No. 1,130,624; Mar. 2; Gaz. vol. 212; p. 273.
- Onstine, Frederick A., Cleveland, Ohio. Saw. No. 1,129,595; Feb. 23; Gaz. vol. 211; p. 1152.
- Onward Manufacturing Company. (See Little, Orton C., assignor.)
- Onyskow, Silvester, assignor of one-half to P. Godlesky, Jenkins, Ky. Rat-trap. No. 1,131,000; Mar. 9; Gaz. vol. 212; p. 437.
- Onyskow, Silvester, assignor of one-half to L. Dulikrovich, Jenkins, Ky. Electric fan for umbrellas. No. 1,148,332; July 27; Gaz. vol. 216; p. 1246.
- Opie, John T., Kansas City, Mo. Machine for making mops, brushes, and the like. No. 1,125,385; Jan. 19; Gaz. vol. 210; p. 851.
- Opl, Karl, assignor of one-half to Triester Mineral-Oel-Raffinerie, Trieste, Austria-Hungary. Fractional separation of paraffin and like substances and of mixtures of such substances with oil. No. 1,128,494; Feb. 16; Gaz. vol. 211; p. 730.
- Oppen, Nortie B., Stoughton, Wis. Holder for light-fixtures. No. 1,143,775; June 22; Gaz. vol. 215; p. 1040.
- Oppen, Ole K., Chicago, Ill. Cylinder for washing-machines. No. 1,157,121; Oct. 19; Gaz. vol. 219; p. 682.
- Oppen, William A. (See Kniffler and Oppen.)
- Oppenheim, Elec. and T. J. Burns, Rockford, Ill. Electric-circuit-controlling switch. No. 1,146,016; July 13; Gaz. vol. 216; p. 384.
- Oppenheim, Max, Brünn, Austria-Hungary. Cutting-machine. No. 1,124,792; Jan. 12; Gaz. vol. 210; p. 603.
- Oppenheim, Max, Brünn, Austria-Hungary, assignor to Firma J. M. Lehmann, Dresden-Löbtau, Germany. Machine for casting confectionery. No. 1,162,391; Nov. 30; Gaz. vol. 220; p. 1576.
- Oppenheim, Simon R., Long Beach, assignor of one-fourth to J. Reinhaus, Santa Ana, Cal. Extracting potash and other substances from kelp. No. 1,141,482; June 1; Gaz. vol. 215; p. 142.
- Oppenheimer, Edward, Sr. (See Schiller, Maximilian, assignor.)
- Oppermann, Karl, Mamaroneck, N. Y. Steering-post lock. No. 1,146,345; July 13; Gaz. vol. 216; p. 499.
- Opseth, Hans M., Madison, Minn. Brooder. No. 1,139,459; May 11; Gaz. vol. 214; p. 649.
- Opsjö, Oluf, Saltese, Mont. Egg-carton. No. 1,125,872; Jan. 19; Gaz. vol. 210; p. 1021.
- Opsjö, Oluf, Saltese, Mont. Revolvable egg-crate. No. 1,134,481; Apr. 6; Gaz. vol. 213; p. 145.
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Giesecke, Max, assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Hofe, Christian von, assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Jacob, Heinrich, assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Thorner, Walther, assignor.)
- Orator Manufacturing Company. (See McArthur and Fletcher, assignors.)
- Oravetz, George, Pacific City, Wash. Handle-attaching means. No. 1,141,001; May 25; Gaz. vol. 214; p. 1261.
- Orchard, Alfred S., assignor to Keystone Type Foundry, Philadelphia, Pa. Printer's galley. No. 1,142,200; June 8; Gaz. vol. 215; p. 428.
- Orcutt, Edward L., deceased, Somerville; F. A. Maddox, Medford, and E. N. Hutchins, Somerville, Mass., executors. Automatic electrically-actuated train-controlling system. No. 1,137,660; Apr. 27; Gaz. vol. 213; p. 1387.
- Ord, Lewis C., assignor to R. W. Burnett, Montreal, Quebec, Canada. Heating system. No. 1,131,946; Mar. 16; Gaz. vol. 212; p. 802.
- Ord, Lewis C., assignor to R. W. Burnett, Montreal, Quebec, Canada. Heating system. No. 1,131,947; Mar. 16; Gaz. vol. 212; p. 802.
- Ordinance Development Company of America. (See Davis, Cleland, assignor.)
- Ordinance Improvement Company. (See Gerdorn, Gregory, assignor.)
- Orear, Benjamin F., Minneapolis, Minn. Folding table. No. 1,145,505; July 6; Gaz. vol. 216; p. 185.
- Oregon Electric Gun Co. (See Ward, Eugene S., assignor.)
- Oregon Woodenware Manufacturing Company. (See Springer, Aaron M., assignor.)

Alphabetical list of patentees—Continued.

- Orelli, Agostine J., Georgetown, Cal. Safety-brake for automobiles and other vehicles. No. 1,149,779; Aug. 10; Gaz. vol. 217; p. 565.
- Orenstein-Arthur Koppel Company. (See Cotton, James H., assignor.)
- Orenstein, Rebecca. (See Harvey, Josiah H., assignor.)
- Orewiler, Benjamin F., Chicago, Ill. Garment-supporter. No. 1,152,753; Sept. 7; Gaz. vol. 218; p. 136.
- Orewiler, Benjamin F., Chicago, Ill. Stud-base for garment-supporters. No. 1,153,107; Sept. 7; Gaz. vol. 218; p. 263.
- Organ Power Company, The. (See Spencer, Ira H., assignor.)
- Organ, Thomas O., Philadelphia, Pa. Grease-cup. No. 1,156,804; Oct. 12; Gaz. vol. 219; p. 539.
- Orlopp, Piatt M., Indianapolis, Ind. Fuel connection for internal-combustion engines. No. 1,159,985; Nov. 9; Gaz. vol. 220; p. 587.
- Orm, Roy S., New York, N. Y. Glue form and clamp. No. 1,133,174; Mar. 23; Gaz. vol. 212; p. 1300.
- Orman, Benjamin, Belvedere, England. Automatic firearm. No. 1,128,180; Feb. 9; Gaz. vol. 211; p. 572.
- Ormay, Arthur L., Brooklyn, assignor to Hill Publishing Co., New York, N. Y. Producing illustrations. No. 1,143,991; June 22; Gaz. vol. 215; p. 1115.
- Orme, Harry A., Washington, D. C. Self-feeding soldering-iron. No. 1,152,043; Aug. 31; Gaz. vol. 217; p. 1516.
- Orme, Harry A., Washington, D. C. Aeroplane. No. 1,153,248; Sept. 14; Gaz. vol. 218; p. 350.
- Orme, Hence. (See Doty, Albert A., assignor.)
- Ormsby, John W., Milwaukee, Wis. Fuel-feeding device for limekilns. No. 1,147,884; July 27; Gaz. vol. 216; p. 1085.
- Orner, Ellis F., Gowen City, Pa. Brake. No. 1,154,426; Sept. 21; Gaz. vol. 218; p. 796.
- Ornsteln, Georg, New York, N. Y., assignor to Electro Bleaching Gas Company. Antisepticizing water. No. 1,142,361; June 8; Gaz. vol. 215; p. 485.
- Orpen, William H., Jr. (See Sperry and Orpen.)
- Orpen, William H., Jr., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Mold for linotype-machines. No. 1,129,829; Feb. 23; Gaz. vol. 211; p. 1228.
- Orpen, William H., Jr., Brooklyn, assignor to International Typesetting Machine Company, New York, N. Y. Magazine for typographical machines. No. 1,156,033; Oct. 5; Gaz. vol. 219; p. 246.
- Orphin, Horace C. (See Sargent, Frederick S., assignor.)
- Orr, Charles B., assignor of one-third to S. V. Wells and one-third to A. S. Crosby, Chicago, Ill. Show-case. No. 1,145,261; July 6; Gaz. vol. 216; p. 100.
- Orr, Chester A., Cleveland, Ohio. Exhaust-muffler. No. 1,131,543; Mar. 9; Gaz. vol. 212; p. 624.
- Orr, John F., assignor to The Cincinnati Coffin Company, Cincinnati, Ohio. Metallic casket. No. 1,151,037; Aug. 24; Gaz. vol. 217; p. 1126.
- Orr, Robert, and B. S. Annis, Chattanooga, Tenn. Stove-pipe-section. No. 1,138,402; May 4; Gaz. vol. 214; p. 241.
- Orrock, John W., Montreal, Quebec, Canada. Smoke-jack for locomotive-engine houses or the like. No. 1,150,878; Aug. 24; Gaz. vol. 217; p. 1072.
- Orrock, John W., assignor of one-half to H. H. Vaughan, Montreal, Quebec, Canada. Underground conduit. No. 1,155,610; Oct. 5; Gaz. vol. 219; p. 99.
- Orsburn, John V., Spokane, Wash. Sack-holder. No. 1,133,395; Mar. 30; Gaz. vol. 212; p. 1414.
- Orser, Otto J., Gordon, Ontario, Canada. Signaling device for tradesmen. No. 1,135,915; Apr. 13; Gaz. vol. 213; p. 690.
- Orsi, Romeo, Milan, Italy. Trumpet-action. No. 1,138,403; May 4; Gaz. vol. 214; p. 241.
- Orsie, Louis, Spokane, Wash. Lawn-mower sharpener. No. 1,128,716; Feb. 16; Gaz. vol. 211; p. 806.
- Orswell Igniter Company. (See Orswell, Israel C., assignor.)
- Orswell, Israel C., Hyde Park, assignor to Orswell Igniter Company, Boston, Mass. Sparking plug. No. 1,164,113; Dec. 14; Gaz. vol. 221; p. 528.
- Orten-Böving, Jens. (See Pennell and Orten-Böving.)
- Orten-Böving, Jens, assignor to The Sewage Syndicate Limited, London, England. Treatment of sewage. No. 1,161,600; Nov. 23; Gaz. vol. 220; p. 1256.
- Orth, Frank, Indiana Harbor, Ind. Regenerator for furnaces. No. 1,131,262; Mar. 9; Gaz. vol. 212; p. 527.
- Orth, Frank, Indiana Harbor, Ind. Cement or mortar mixer and elevator. No. 1,161,789; Nov. 23; Gaz. vol. 220; p. 1321.
- Orth, Frank, Indiana Harbor, Ind. Pigment. No. 1,161,790; Nov. 23; Gaz. vol. 220; p. 1322.
- Orth, Frank, Indiana Harbor, Ind. Regenerator for furnaces. No. 1,165,340; Dec. 21; Gaz. vol. 221; p. 995.
- Ortholan, Juan B., Buenos Aires, Argentina. Two-cycle rotary-cylinder engine. No. 1,147,540; July 20; Gaz. vol. 216; p. 938.
- Orton, Alfred, Cheyenne, Wyo. Fuel-tank for automobiles. No. 1,139,439; May 11; Gaz. vol. 214; p. 642.
- Ortt, Rowley K., Dixon, Ill. Lawn-mower. No. 1,134,899; Apr. 6; Gaz. vol. 213; p. 292.
- Ortwig, William, St. Joseph, and E. C. Bryant, Springfield, Mo. Folding ladder. No. 1,129,003; Feb. 16; Gaz. vol. 211; p. 908.
- Orville Simpson Company, The. (See Simpson, Lowe E., assignor.)
- Orwig, Joseph R., Des Moines, Iowa. Match-holder. No. 1,143,992; June 22; Gaz. vol. 215; p. 1116.
- Osaka, Rikijiro, Denver, Colo. Antislipping attachment for shoes, rubbers, or overshoes. No. 1,132,208; Mar. 16; Gaz. vol. 212; p. 898.
- Osaki, Mihlsuka, San Quentin, Cal. Shoe-supporter. No. 1,155,506; Oct. 5; Gaz. vol. 219; p. 65.
- Osborn, Clark H., St. Joseph, Mo. Incubator. No. 1,144,232; June 22; Gaz. vol. 215; p. 1202.
- Osborn, Elisha H., Sauk Center, Minn. Telephone-signal. No. 1,141,823; June 1; Gaz. vol. 215; p. 257.
- Osborn, Frank C., Cleveland, Ohio. Lifting mechanism for bridges. No. 1,158,546; Nov. 2; Gaz. vol. 220; p. 49.
- Osborn, Frank H., Sacramento, Cal. Paint-brush. No. 1,130,759; Mar. 9; Gaz. vol. 212; p. 355.
- Osborn, Harmon R., Auburn, N. Y. Musical instrument. No. 1,133,741; Mar. 30; Gaz. vol. 212; p. 1538.
- Osborn, Henry C., Cleveland, Ohio. Game apparatus. No. 1,136,708; Apr. 20; Gaz. vol. 213; p. 1013.
- Osborn, Joseph A., St. Louis, Mo. Electric welder. No. 1,164,009; Dec. 14; Gaz. vol. 221; p. 491.
- Osborn Manufacturing Company, The. (See Knowlton and Elliott, assignors.)
- Osborn Manufacturing Company, The. (See McKell, George A., assignor.)
- Osborn Manufacturing Company, The. (See Nielson, Henry, assignor.)
- Osborn, Oliver L. (See Bower and Osborn.)
- Osborn, Warren M., New Britain, Conn. Railway-track. No. 1,125,873; Jan. 19; Gaz. vol. 210; p. 1021.
- Osborn, William H. (See Denney and Osborn.)
- Osborn, William H., Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Shipping-package. No. 1,131,948; Mar. 16; Gaz. vol. 212; p. 803.
- Osborne, Charles, New York, N. Y. Floral frame. No. 1,151,382; Aug. 24; Gaz. vol. 217; p. 1240.
- Osborne, Evan E., Los Angeles, assignor of one-half to W. A. Babb, Santa Monica, Cal. Combination sucker-rod socket. No. 1,153,818; Sept. 14; Gaz. vol. 218; p. 553.
- Osborne, Henry G., Brooklyn, N. Y. Expansion-bolt. No. 1,139,712; May 18; Gaz. vol. 214; p. 774.
- Osborne, Irvn, et al. (See Melin, August, assignor.)
- Osborne, Isaac L., Redmond, Oreg. Hay-rack. No. 1,124,793; Jan. 12; Gaz. vol. 210; p. 603.
- Osborne, John, Hotchkiss, Colo. Hose-swivel. No. 1,157,715; Oct. 26; Gaz. vol. 219; p. 953.
- Osborne, John H., Anderson, Ind. Computing cheese-cutter. No. 1,131,949; Mar. 16; Gaz. vol. 212; p. 804.
- Osborne, John L., assignor to Judson Governor Company, Rochester, N. Y. Governor for compressors. No. 1,136,607; Apr. 20; Gaz. vol. 213; p. 977.
- Osborne, John L., assignor to Judson Governor Company, Rochester, N. Y. Pneumatic controller. No. 1,141,975; June 8; Gaz. vol. 215; p. 347.
- Osborne, John L., assignor to Judson Governor Company, Rochester, N. Y. Valve. No. 1,157,956; Oct. 26; Gaz. vol. 219; p. 1038.
- Osborne, Joseph E., Washington, D. C. Awning-fixture. No. 1,150,296; Aug. 17; Gaz. vol. 217; p. 813.
- Osborne, Sydney G., Brooklyn, N. Y. Game device. No. 1,161,326; Nov. 23; Gaz. vol. 220; p. 1160.
- Osborne, William V., Racine, Wis. Rail-anchor. No. 1,129,004; Feb. 16; Gaz. vol. 211; p. 909.
- Osborne, William V., Racine, Wis. Car-door fastener. No. 1,137,661; Apr. 27; Gaz. vol. 213; p. 1387.
- Osborn, Millard P., Merchantville, N. J., assignor to Warren Webster & Company. Automatic boiler-feeding device. No. 1,134,636; Apr. 6; Gaz. vol. 213; p. 202.
- Osborn, Andrew T., Kansas City, Mo. Folding window-balcony. No. 1,134,635; Apr. 6; Gaz. vol. 213; p. 201.
- Osburn, Harry G., Pittsburgh, Pa. Igniting system. No. 1,126,266; Jan. 26; Gaz. vol. 210; p. 1198.
- Oscanyan, Paul C., Oceanic, N. J. Game board or bulletin. No. 1,127,498; Feb. 9; Gaz. vol. 211; p. 334.
- Osgood Bradley Car Company. (See Smith, Jesse E., assignor.)
- Osgood Bradley Car Company. (See Turner, Charles H., assignor.)
- Osgood, Charles G., assignor of fifty one-hundredths to The Montana-Tonopah Mines Co., Tonopah, Nev. Filter. No. 1,128,495; Feb. 16; Gaz. vol. 211; p. 730.
- Osgood, Dana, assignor to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 1,129,810; Feb. 23; Gaz. vol. 211; p. 1221.
- Osgood, George L., Ayer, Mass. Collar and necktie case. No. 1,163,683; Dec. 14; Gaz. vol. 221; p. 376.
- Osgood, Horatio B., assignor to J. E. Bowman, Springfield, Ohio. Automatic weighing-scale. No. 1,125,874; Jan. 19; Gaz. vol. 210; p. 1022.
- Osgood, John L., Buffalo, N. Y. Closure for oiling-ducts. No. 1,157,250; Oct. 19; Gaz. vol. 219; p. 729.
- Osgood, Joseph G., and F. W. Bachman, Cincinnati, Ohio, assignors to J. G. Osgood, trustee. Block-lever. No. 1,146,730; July 13; Gaz. vol. 216; p. 634.
- Osgood, Louis A., assignor to The Winters-Coleman Scale Company, Springfield, Ohio. Automatic weighing-scale. No. 1,159,412; Nov. 9; Gaz. vol. 220; p. 381.

Alphabetical list of patentees—Continued.

- Osgood, Walter P. (See Edwards and Osgood.)
- Osh, Charles W., San Francisco, Cal. Automobile shifting-jack. No. 1,148,854; Aug. 3; Gaz. vol. 217; p. 132.
- Oshkosh Manufacturing Company. (See Leach, Elbert C., assignor.)
- Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
- Oskamp, Clemens, Cincinnati, Ohio. Dividing-machine. No. 1,125,386; Jan. 19; Gaz. vol. 210; p. 851.
- Osler, Jay T., Coraopolis, Pa. Making chilled rolls with steel centers. No. 1,132,611; Mar. 23; Gaz. vol. 212; p. 1094.
- Osler, Jay T., Coraopolis, Pa. Apparatus for making composite rolls. No. 1,132,612; Mar. 23; Gaz. vol. 212; p. 1094.
- Oslund, John E., Hartford, Conn. Universal test-indicator. No. 1,157,800; Oct. 26; Gaz. vol. 219; p. 982.
- Osmer, Charles E., and J. B. Roach, Beardstown, Ill. Electrode. No. 1,127,499; Feb. 9; Gaz. vol. 211; p. 334.
- Osmer, John E., Chicago, Ill., assignor to Humphrey Company, Kalamazoo, Mich. Automatic water-heater. No. 1,134,406; Apr. 6; Gaz. vol. 213; p. 117.
- Osmoud, William, Scranton, Pa. Automobile-lamp gear. No. 1,136,831; Apr. 20; Gaz. vol. 213; p. 1057.
- Osnos, Mendel, Berlin, Germany, assignor to General Electric Company. Dynamo-electric machine. No. 1,157,325; Oct. 19; Gaz. vol. 219; p. 755.
- Ossenbeck, Anton. (See Kahn and Ossenbeck.)
- Osswald, Herman, Greenlawn, assignor, by mesne assignments, to Locke Steel Chain Company, Great River, N. Y. Chain-link and making and assembling same. No. 1,157,175; Oct. 19; Gaz. vol. 219; p. 701.
- Ost, Otto G., Meriden, Conn. Antiskidding device. No. 1,147,182; July 20; Gaz. vol. 216; p. 812.
- Ostachowski, Julian, Buffalo, N. Y. Mail-box. No. 1,140,914; May 25; Gaz. vol. 214; p. 1231.
- Osten, James H., assignor to The Baker Manufacturing Company, Springfield, Ill. Street-sweeper. No. 1,163,948; Dec. 14; Gaz. vol. 221; p. 470.
- Ostenberg, Pontus, Los Gatos, Cal. Internal-combustion turbine-engine. No. 1,125,157; Jan. 19; Gaz. vol. 210; p. 767.
- Ostenberg, Pontus, Los Gatos, Cal. Internal-combustion engine. No. 1,137,887; May 4; Gaz. vol. 214; p. 57.
- Oster, Henry J., Ethan, S. D. Non-refillable bottle. No. 1,150,297; Aug. 17; Gaz. vol. 217; p. 813.
- Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,128,034; Feb. 9; Gaz. vol. 211; p. 522.
- Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Attachment for lathes. No. 1,139,063; May 11; Gaz. vol. 214; p. 511.
- Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die-stock. No. 1,150,449; Aug. 17; Gaz. vol. 217; p. 864.
- Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Oiling mechanism for machine-tools. No. 1,159,790; Nov. 9; Gaz. vol. 220; p. 518.
- Oster, Herman W., assignor to one-half to R. B. Tewksbury, Cleveland, Ohio. Tire holder and lock. No. 1,132,486; Mar. 16; Gaz. vol. 212; p. 999.
- Oster Manufacturing Company, The. (See Oster, Herman W., assignor.)
- Oster, Walter E., and S. Tempinski, Chicago, Ill. Pipe-coupling. No. 1,154,540; Sept. 21; Gaz. vol. 218; p. 834.
- Osterberg, Frank M., Rockford, Ill. Safety-razor. No. 1,180,835; Mar. 9; Gaz. vol. 212; p. 380.
- Österberg, Karl E. R. (See Larsson and Österberg.)
- Ostergren, Oscar P., Brooklyn, assignor of one-half to E. Lundgren, New York, N. Y. Condensing apparatus. No. 1,155,090; Sept. 28; Gaz. vol. 218; p. 1053.
- Ostergren, Oscar P., Brooklyn, N. Y., assignor, by mesne assignments, to The Westinghouse Machine Company. Furnace. No. 1,159,862; Nov. 9; Gaz. vol. 220; p. 544.
- Ostergren, Oscar P., New York, N. Y., and G. Fast, Orange, N. J., assignors, by mesne assignments, to Compound Cycle Engine Company, New York, N. Y. Fuel-pump. No. 1,161,515; Nov. 23; Gaz. vol. 220; p. 1227.
- Osterholm, William C., Chicago, Ill., assignor to International Harvester Company. Chuck. No. 1,135,045; Apr. 13; Gaz. vol. 213; p. 389.
- Osterholm, William C., Chicago, Ill., assignor to International Harvester Company of New Jersey. Disk-grinding machine. No. 1,139,569; May 18; Gaz. vol. 214; p. 723.
- Osterholtz, Frederick J., Bucoda, assignor to Alaska Hydraulic Motor Company, Tacoma, Wash. Hydraulic motor. No. 1,139,995; May 18; Gaz. vol. 214; p. 874.
- Osterhout, Garret B., Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Rotary take-up. No. 1,134,482; Apr. 6; Gaz. vol. 213; p. 146.
- Osterhout, Garret B., Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Sewing-machine. No. 1,134,483; Apr. 6; Gaz. vol. 213; p. 146.
- Osterman, William H., Fonda, Iowa. Internal-combustion engine. No. 1,139,713; May 18; Gaz. vol. 214; p. 775.
- Ostlin, Olaf. (See Nelson, Ostlin, and Swangren.)
- Ostlund, Adolph, Exline, Iowa. Pick-fastener. No. 1,137,522; Apr. 27; Gaz. vol. 213; p. 1341.
- Ostlund, Theodore E. (See Petersen, Christian M., assignor.)
- Ostman, Joseph O., Brooklyn, N. Y. Adjustable printer's galley. No. 1,159,260; Nov. 2; Gaz. vol. 220; p. 296.
- Ostness, Edward K., Beloit, Wis. Corn-extractor. No. 1,133,881; Mar. 30; Gaz. vol. 212; p. 1589.
- Ostolc, Milos, Cleveland, Ohio. Awning-support. No. 1,159,986; Nov. 9; Gaz. vol. 220; p. 588.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Uncoupling device for cars. No. 1,140,706; May 25; Gaz. vol. 214; p. 1156.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,149,400; Aug. 10; Gaz. vol. 217; p. 428.
- Ostrander, Allen E., Ridgewood, N. J., and F. H. Gibbs, New York, N. Y. Dumping-car. No. 1,140,606; May 25; Gaz. vol. 214; p. 1124.
- Ostrander, James H., Chicago, Ill. Aeroplane flying-machine. No. 1,135,131; Apr. 13; Gaz. vol. 213; p. 418.
- Ostrander, Linnie E., Gold Beach, Oreg. Support for fruit-jars. No. 1,126,844; Feb. 2; Gaz. vol. 211; p. 65.
- Ostrander Seymour Company. (See Thompson, Frank T., assignor.)
- Ostrom, Freeland W., Newark, N. J., assignor to The Singer Manufacturing Company. Device for supporting and delivering tape for wrapping purposes. No. 1,166,074; Dec. 28; Gaz. vol. 221; p. 1290.
- Ostrovsky, Harry, London, England. Exercising apparatus for use by musicians for developing the muscles of the hand. No. 1,136,481; Apr. 20; Gaz. vol. 213; p. 933.
- Osvaldella, Rocco, Trieste, Austria-Hungary. Self-closing valve. No. 1,144,860; June 29; Gaz. vol. 215; p. 1446.
- Oswald, Herman H., Fort Ann, N. Y. Reloadable cartridge-fuse. No. 1,133,175; Mar. 23; Gaz. vol. 212; p. 1300.
- Oswald, James N., Pittsburgh, Pa. Stocking-supporter. No. 1,153,334; Sept. 14; Gaz. vol. 218; p. 380.
- Oswald, Karl, Irvington, N. J. Fastener for hand-bags and the like. No. 1,137,419; Apr. 27; Gaz. vol. 213; p. 1307.
- Otey, George S. (See Brown and Otey.)
- Otidys, Evangelo. (See Maticotta, Santo E. P., assignor.)
- Otis Elevator Company. (See Baldwin and John, assignors.)
- Otis Elevator Company. (See Boening, Ernest, assignor.)
- Otis Elevator Company. (See Boyce, John E., assignor.)
- Otis Elevator Company. (See Brown, Thomas E., assignor.)
- Otis Elevator Company. (See Clark, William T., assignor.)
- Otis Elevator Company. (See Deats, William, assignor.)
- Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)
- Otis Elevator Company. (See Handy, Arthur E., assignor.)
- Otis Elevator Company. (See Hymans, Frederick, assignor.)
- Otis Elevator Company. (See Ihlder, John D., assignor.)
- Otis Elevator Company. (See Ihlder and Lutz, assignors.)
- Otis Elevator Company. (See John, Griffith, assignor.)
- Otis Elevator Company. (See John and Lindquist, assignors.)
- Otis Elevator Company. (See Larson, David, assignor.)
- Otis Elevator Company. (See Lindquist, David L., assignor.)
- Otis Elevator Company. (See Lindquist and Larson, assignors.)
- Otis Elevator Company. (See Lutz, William D., assignor.)
- Otis Elevator Company. (See Magnuson, Axel, assignor.)
- Otis Elevator Company. (See Mutton, John, assignor.)
- Otis Elevator Company. (See Pratt, Charles R., assignor.)
- Otis Elevator Company. (See Scott, Campbell, assignor.)
- Otis Elevator Company. (See Scott and Sundh, assignors.)
- Otis Elevator Company. (See Smith, Allen C., assignor.)
- Otis Elevator Company. (See Smith, Edward A., assignor.)
- Otis Elevator Company. (See Sundh, August, assignor.)
- Otis Elevator Company. (See Trezise, Arthur R., Sr., assignor.)
- Otis Elevator Company. (See Weissenburger, George E., assignor.)
- Otis Elevator Company. (See Westlin, Bror E., assignor.)
- Otis-Fensom Elevator Company. (See Bennett, Joseph C., assignor.)
- Otis-Fensom Elevator Company. (See Wilson, Robert, assignor.)
- Otis, Howard J., Denver, Colo. Door-mat. No. 1,139,899; May 18; Gaz. vol. 214; p. 840.
- Otis and Moe Manufacturing Company. (See Moe, Aaron B., assignor.)
- Otis, Spencer. (See Thompson and Otis.)
- Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism for railway-cars. No. 1,129,421; Feb. 23; Gaz. vol. 211; p. 1090.

Alphabetical list of patentees—Continued.

- Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism for railway-cars. No. 1,129,422; Feb. 23; Gaz. vol. 211; p. 1090.
- Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. Gondola car. No. 1,135,132; Apr. 13; Gaz. vol. 213; p. 419.
- Ottstot, George, Springfield, Ohio. Toy. No. 1,124,794; Jan. 12; Gaz. vol. 210; p. 604.
- Ott, Charles W., Pittsburg, Kans. Vegetable-slicer. No. 1,137,017; Apr. 27; Gaz. vol. 213; p. 1160.
- Ott, Harvey N., assignor to Spencer Lens Company, Buffalo, N. Y. Microscope. No. 1,120,502; Feb. 23; Gaz. vol. 211; p. 1118.
- Ott, Harvey N., assignor to Spencer Lens Company, Buffalo, N. Y. Current-controlling device. No. 1,135,608; Apr. 13; Gaz. vol. 213; p. 583.
- Ott, Harvey N., and C. W. Barton, assignors to Spencer Lens Company, Buffalo, N. Y. Projection apparatus and the like. No. 1,143,993; June 22; Gaz. vol. 215; p. 1116.
- Ott, Harvey N., and K. Leuchsenring, assignors to Spencer Lens Company, Buffalo, N. Y. Microscope. No. 1,149,401; Aug. 10; Gaz. vol. 217; p. 428.
- Ott, Paul, Pittsburg, Pa. Mold. No. 1,127,671; Feb. 9; Gaz. vol. 211; p. 390.
- Ottaway, William, Aurora, assignor to Aurora Automatic Machinery Company, Chicago, Ill. Carbureter. No. 1,128,717; Feb. 16; Gaz. vol. 211; p. 806.
- Ottaway, William, Aurora, assignor to Aurora Automatic Machinery Company, Chicago, Ill. Carbureter. No. 1,135,046; Apr. 13; Gaz. vol. 213; p. 389.
- Otte, H. C. (See Tichenor, Elbert J., assignor.)
- Otte, Otho M., Jamestown, N. Y. Buffer for doors. No. 1,149,078; Aug. 3; Gaz. vol. 217; p. 210.
- Ottenad, Arthur L., St. Louis, Mo. Collapsible tire-rim. No. 1,163,257; Dec. 7; Gaz. vol. 221; p. 183.
- Otterson, George W., Seattle, Wash. Dump-wagon. No. 1,163,949; Dec. 14; Gaz. vol. 221; p. 470.
- Ottesen, Anton J. A., Thisted, Denmark. Preserving comestibles. No. 1,129,716; Feb. 23; Gaz. vol. 211; p. 1189.
- Otto, Edward F., Kenosha, Wis. Toy. No. 1,159,261; Nov. 2; Gaz. vol. 220; p. 296.
- Otto, Emil E., Chicago, Ill. Gas-mantle and making the same. No. 1,146,511; July 13; Gaz. vol. 216; p. 560.
- Otto, Isaac F., Taneytown, Md. Fire-escape. No. 1,140,281; May 18; Gaz. vol. 214; p. 973.
- Otto, Marius P., Paris, France. Dirigible torpedo. No. 1,154,427; Sept. 21; Gaz. vol. 218; p. 797.
- Otto, Marius P., Paris, France. Tubular ozone-generator. No. 1,163,768; Dec. 14; Gaz. vol. 221; p. 407.
- Otto, Marius P., Paris, France. Clutch mechanism for transmitting motion. No. 1,166,075; Dec. 28; Gaz. vol. 221; p. 1291.
- Otto, Maximilian J., New York, N. Y. Spool-holder. No. 1,137,079; Apr. 27; Gaz. vol. 213; p. 1182.
- Otto & Schlosser. (See Naumann, Paul, assignor.)
- Ottosen, Christopher, Ottosen, and H. R. Wright, Des Moines, Iowa. Ice-cream container. No. 1,138,144; May 4; Gaz. vol. 214; p. 150.
- Ottosen, Christopher, Ottosen, and H. R. Wright, Des Moines, Iowa. Liner for ice-cream cans. No. 1,146,512; July 13; Gaz. vol. 216; p. 560.
- Ottum, Clarence J., Pierpont, S. D. Oyster-opener. No. 1,159,262; Nov. 2; Gaz. vol. 220; p. 296.
- Oudeville, Francois, assignor to Société Universelle des Appareils Contrôleurs, Paris, France. Gas-burner. No. 1,135,840; Apr. 13; Gaz. vol. 213; p. 666.
- Oulmette, Joseph, Southbridge, Mass. Spring-repairer. No. 1,144,945; June 29; Gaz. vol. 215; p. 1473.
- Oulford Company, The. (See Marsh, Edward A., assignor.)
- Oulman, Orin M. (See Altman, Elmer F., assignor.)
- Oursler, William N., Odebolt, Iowa. Tire-filler. No. 1,137,888; May 4; Gaz. vol. 214; p. 58.
- Onsley, George W., San Francisco, Cal. Window-wiper. No. 1,165,704; Dec. 28; Gaz. vol. 221; p. 1163.
- Outerson, James T. (See Head, Robert, assignor.)
- Outrebon, Edouard, assignor to Manufacture d'Horlogerie de Béthune, Béthune, France. Weighing apparatus. No. 1,157,716; Oct. 26; Gaz. vol. 219; p. 954.
- Ouzts, Jesse L., Spartanburg county, S. C. Churn. No. 1,163,030; Dec. 7; Gaz. vol. 221; p. 103.
- Ovenshire, Charles E. (See Thayer, Burt W., assignor.)
- Over, Edwin G., Fort Worth, Tex. Sanitary tooth-cleaner. No. 1,144,777; June 29; Gaz. vol. 215; p. 1417.
- Overand, Roy, Galesburg, Ill. Self-locking sash-fastener. No. 1,148,712; Aug. 3; Gaz. vol. 217; p. 82.
- Overbury, Frederick C., Montclair, assignor to Flintkote Manufacturing Company, Rutherford, N. J. Shingle-strip. No. 1,150,298; Aug. 17; Gaz. vol. 217; p. 813.
- Overbury, Frederick C., Montclair, assignor to Flintkote Manufacturing Company, Rutherford, N. J. Making roofing elements. No. 1,154,334; Sept. 21; Gaz. vol. 218; p. 765.
- Overbury, Frederick C., New York, N. Y., and H. C. Platts, assignors to Flintkote Manufacturing Company, Rutherford, N. J. Weatherproof covering. No. 1,158,266; Oct. 26; Gaz. vol. 219; p. 1145.
- Overbury, Frederick C., New York, N. Y., and H. C. Platts, assignors to Flintkote Manufacturing Company, Rutherford, N. J. Flexible convex tile roofing. No. 1,158,267; Oct. 26; Gaz. vol. 219; p. 1146.
- Overbury, Frederick C., New York, N. Y., and H. C. Platts, assignors to Flintkote Manufacturing Company, Rutherford, N. J. Tile roofing. No. 1,158,268; Oct. 26; Gaz. vol. 219; p. 1146.
- Overfield, Raymond, L. B. Hamsley, and E. Burns, Brooklyn, N. Y. Advertising apparatus. No. 1,139,795; May 18; Gaz. vol. 214; p. 803.
- Overholt, Edward H., Galesburg, Ill. Motor-cycle horn. No. 1,128,816; Feb. 16; Gaz. vol. 211; p. 841.
- Overholt, Edwin E., Washington, D. C., assignor to Modern Compressed Air Cleaning Co. Pneumatic carpet-cleaner. No. 1,136,434; Apr. 20; Gaz. vol. 213; p. 916.
- Overholt, Frank M., and F. M. Steiner, Minneapolis, Minn. Laundry-extractor. No. 1,153,701; Sept. 14; Gaz. vol. 218; p. 512.
- Overlin, William S. (See Bilyeu and Overlin.)
- Overlin, William S., Portland, Oreg., assignor, by mesne assignments, to International Money Machine Company. Terre Haute, Ind. Money-deliverer for street-cars. No. 1,145,700; July 6; Gaz. vol. 216; p. 254.
- Overly, Charles F., Pittsburg, Pa., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner guide and nozzle. No. 1,124,508; Jan. 12; Gaz. vol. 210; p. 500.
- Overly, Charles H., and O. A. Thompson, assignors of one-fourth to W. W. Curtin, Independence, and one-fourth to T. G. Laney, Erie, Kans. Pulling attachment for oil-well derricks. No. 1,162,392; Nov. 30; Gaz. vol. 220; p. 1577.
- Overman, Max C., New York, N. Y. Wheel and tire. No. 1,150,223; Aug. 17; Gaz. vol. 217; p. 786.
- Overmiller, Lewis C., Athol, Kans. Automatic cut-out attachment for cisterns. No. 1,127,500; Feb. 9; Gaz. vol. 211; p. 334.
- Overmyer, Charles F. (See Atkinson and Overmyer.)
- Overmyer, Charles G., Hartford City, Ind. Caster device for stove-legs. No. 1,161,007; Nov. 16; Gaz. vol. 220; p. 1001.
- Overn, Gustav G., and J. C. Thoreson, Kathryn, N. D. Device for detachably supporting water-conductors. No. 1,126,845; Feb. 2; Gaz. vol. 211; p. 65.
- Overpack, Millie, Manistee, Mich. Cooking utensil. No. 1,159,078; Nov. 2; Gaz. vol. 220; p. 230.
- Overton, Charles S., Solomons, Md. Steering and propelling mechanism for menhaden-fishing boats. No. 1,124,645; Jan. 12; Gaz. vol. 210; p. 551.
- Overton, Robert C., Nutbush, Va. Wagon-brake. No. 1,165,623; Dec. 28; Gaz. vol. 221; p. 1134.
- Oveson, Gustave A., International Falls, Minn. Garbage-incinerator. No. 1,132,790; Mar. 23; Gaz. vol. 212; p. 1160.
- Ovington, Edward J., Brookline, assignor to Simplex Electric Heating Company, Cambridge, Mass. Electric heating device. No. 1,141,576; June 1; Gaz. vol. 215; p. 175.
- Owen, Carrie E. (See McNutt, William H., assignor.)
- Owen, David T., and E. N. Brown, East Cleveland, assignors to The D. T. Owen Company, Cleveland, Ohio. Combined bed and sofa. No. 1,150,299; Aug. 17; Gaz. vol. 217; p. 813.
- Owen, Edward G., Janesville, Wis. Lightning-rod coupling. No. 1,133,176; Mar. 23; Gaz. vol. 212; p. 1301.
- Owen, George B., Jr., Brooklyn, N. Y. Air-moistening device. No. 1,129,897; Mar. 2; Gaz. vol. 212; p. 22.
- Owen, Henry A., assignor to Whitin Machine Works, Whitinsville, Mass. Feeler-motion for looms. No. 1,127,086; Feb. 2; Gaz. vol. 211; p. 149.
- Owen, Henry A., assignor to The Whitin Machine Works, Whitinsville, Mass. Nipper-motion drive for cotton-combers. No. 1,157,033; Oct. 19; Gaz. vol. 219; p. 652.
- Owen, Henry A., assignor to Whitin Machine Works, Whitinsville, Mass. Weft-replenishing loom. No. 1,160,952; Nov. 16; Gaz. vol. 220; p. 981.
- Owen, Herbert W., Dover, assignor to Whitin Machine Works, Whitinsville, Mass. Spinning-machine. No. 1,161,959; Nov. 30; Gaz. vol. 220; p. 1428.
- Owen, James H., Newburgh, N. Y. Fire-alarm. No. 1,135,916; Apr. 13; Gaz. vol. 213; p. 690.
- Owen, Lillie M. (See Mohr and Owen.)
- Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Bobbin-holder. No. 1,135,712; Apr. 13; Gaz. vol. 213; p. 621.
- Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Bobbin-holder for spoolers. No. 1,137,889; May 4; Gaz. vol. 214; p. 58.
- Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Thread-board lifter. No. 1,151,384; Aug. 24; Gaz. vol. 217; p. 1241.
- Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Stop-motion. No. 1,152,541; Sept. 7; Gaz. vol. 218; p. 60.
- Owen, Oscar L., and L. Rasco, assignors to The Whitin Machine Works, Whitinsville, Mass. Roving-creeper for spinning and doubling frames. No. 1,158,387; Oct. 26; Gaz. vol. 219; p. 1189.

Alphabetical list of patentees—Continued.

- Owen, Percy G., Vancouver, British Columbia, Canada. Fender for moving vehicles. No. 1,163,031; Dec. 7; Gaz. vol. 221; p. 103.
- Owen, Robert C. D., Vancouver, British Columbia, Canada. Building-block for wall constructions. No. 1,130,324; Mar. 2; Gaz. vol. 212; p. 167.
- Owen, Thomas M., Broken Hill, New South Wales, Australia, assignor to Minerals Separation American Syndicate (1913) Limited, London, England. Apparatus for the concentration of ores. No. 1,155,836; Oct. 5; Gaz. vol. 219; p. 179.
- Owen, Thomas M., assignor to E. W. Culver, Sydney, New South Wales, Australia. Separation of metallic sulfides from ores. No. 1,157,176; Oct. 19; Gaz. vol. 219; p. 702.
- Owen, William S., Schindler, S. D. Wrench. No. 1,126,846; Feb. 2; Gaz. vol. 211; p. 65.
- Owens, Albert J., Chatham, Ontario, Canada. Railway-crossing. No. 1,126,559; Jan. 26; Gaz. vol. 210; p. 1304.
- Owens, Andrew L., and C. L. Alford, Indianapolis, Ind.; said Alford assignor to said Owens. Relief-valve for pneumatic tires. No. 1,144,499; June 29; Gaz. vol. 215; p. 1322.
- Owens, Charles, Chattanooga, Tenn., assignor to Montague Mailing Machinery Company. Inking-ribbon mechanism. No. 1,162,643; Nov. 30; Gaz. vol. 220; p. 1659.
- Owens, Horace P., Atlanta, Ga. Wire-stretcher. No. 1,144,310; June 22; Gaz. vol. 215; p. 1229.
- Owens, Jasper C., assignor of one-half to S. T. Velle, Bridgeport, Conn. Carpet sewing and plucking machine. No. 1,147,684; July 20; Gaz. vol. 216; p. 989.
- Owens, Jasper C., assignor of one-half to S. T. Velle, Bridgeport, Conn. Carpet-stretcher. No. 1,160,647; Nov. 16; Gaz. vol. 220; p. 874.
- Owens, John S., assignor to J. M. De Mendoza y Mehr, London, England. Concrete-mixer. No. 1,154,051; Sept. 21; Gaz. vol. 218; p. 668.
- Owens, Michael F., assignor to Automatic Refrigerating Company, Hartford, Conn. Time-limit circuit-breaker. No. 1,144,233; June 22; Gaz. vol. 215; p. 1203.
- Owens, Ralph H., Cozad, Nebr. Internal-combustion engine. No. 1,150,700; Aug. 17; Gaz. vol. 217; p. 952.
- Owens, William J. (See Kernan and Owens.)
- Owensboro Ditcher and Grader Company. (See Williams, William R., assignor.)
- Owles, Vincent W., and J. A. McKinley, Jr., New York, N. Y. Railway safety appliance. No. 1,151,385; Aug. 24; Gaz. vol. 217; p. 1241.
- Owsley, Edgar H., San Jose, Cal. Trolley-actuated switch. No. 1,153,515; Sept. 14; Gaz. vol. 218; p. 447.
- Oxley, Dwight K., Omaha, Nebr. Display-box for bakery products. No. 1,147,041; July 20; Gaz. vol. 216; p. 763.
- Oxley, Walter T., Fergus Falls, Minn. Photographic-printing machine. No. 1,124,795; Jan. 12; Gaz. vol. 210; p. 604.
- Oxweld Acetylene Company. (See Braden, Robert D., assignor.)
- Oxweld Acetylene Company. (See Mueller, Rudolph J. J., assignor.)
- Oxweld Acetylene Company. (See Winans, Milton E., assignor.)
- Oxweld Acetylene Company. (See Winans and Rose, assignors.)
- Oxygen Gas Company. (See Norquist, Emanuel E., assignor.)
- Oyster, Earl F. (See Yanney and Oyster.)
- Oyster, Earl F., assignor to The Alliance Machine Company, Alliance, Ohio. Grab-bucket. No. 1,130,428; Mar. 2; Gaz. vol. 212; p. 205.
- Ozias, Orange O., Dayton, Ohio. Automatic weighing device. No. 1,135,609; Apr. 13; Gaz. vol. 213; p. 584.
- P. Becker & Company. (See Schnur, William V., assignor.)
- P. David & Company. (See Pickles, Charles K., assignor.)
- P. Lorillard & Co. (See Chambers, James H., assignor.)
- P. A. Geier Company, The. (See Trautman, Walter G., assignor.)
- P. & B. Mfg. Co. (See Bloomer, Harvey E., assignor.)
- P. E. Erickson & Son. (See Erickson, Peter F., assignor.)
- P. H. Murphy Company. (See Brewer, William A., assignor.)
- P. H. Murphy Company. (See Murphy, Clinton C., assignor.)
- P. H. Murphy Company. (See Murphy, Dwight, assignor.)
- P. & M. Co., The. (See Ferguson, William H., assignor.)
- P. & M. Co., The. (See Moore, Philip W., assignor.)
- P. & M. Co., The. (See Preston, Frederick A., assignor.)
- P. & M. Co., The. (See Warr, Harold G., assignor.)
- Pasche, Jens A., Chicago, Ill. Air-brush. No. 1,125,875; Jan. 19; Gaz. vol. 210; p. 1022.
- Pasche, Jens A., Chicago, Ill. Regulator. No. 1,163,361; Dec. 7; Gaz. vol. 221; p. 220.
- Pac-Rite Company. (See Lundberg, August J., assignor.)
- Pacelli, John, New York, N. Y. Shutter-fastener. No. 1,156,707; Oct. 12; Gaz. vol. 219; p. 507.
- Pacetty, Thomas A., Columbus, Ga. Splitting attachment for ice-saws. No. 1,154,541; Sept. 21; Gaz. vol. 218; p. 835.
- Pache, Auguste, assignor of one-half to L. G. Duquet, New York, N. Y. Timing apparatus. No. 1,163,362; Dec. 7; Gaz. vol. 221; p. 220.
- Pacheco, Manuel C., New Bedford, Mass. Toy. No. 1,145,165; July 6; Gaz. vol. 216; p. 66.
- Pacheco, William, Chicago, Ill. Single-delivery match-box. No. 1,135,183; Apr. 13; Gaz. vol. 213; p. 419.
- Pachner, Isaac, New York, N. Y. Cap. No. 1,133,056; Mar. 23; Gaz. vol. 212; p. 1259.
- Pachur, Robert, Dallas Center, Iowa. Toy windmill. No. 1,166,247; Dec. 28; Gaz. vol. 221; p. 1357.
- Pacific Folding Box Factory, The. (See Raynaud, Charles E., assignor.)
- Pacific Gas & Electric Company. (See Knopp, Otto A., assignor.)
- Pacific Heater Manufacturing Co. (See Giles, Lloyd, assignor.)
- Pacific Motorless Sign Co. (See Lorenz, Ernest C., assignor.)
- Pacific Portland Cement Co., Consolidated. (See Colton, James H., assignor.)
- Pacific Securities Company Limited. (See Hybinette, Noah V., assignor.)
- Pacific Spring Bed Company. (See Stackhouse, George A., assignor.)
- Pacius, Julius P. C. (See Schoenherr, Frank C., assignor.)
- Pack, Charles, New York, N. Y., assignor to Doehler Die Casting Company. White-metal casting and making same. No. 1,156,093; Oct. 12; Gaz. vol. 219; p. 294.
- Package Confectionery Company. (See Macnaughtan, James, assignor.)
- Package Confectionery Company. (See Macnaughtan, William, assignor.)
- Package Machinery Company. (See Giroud, Felipe, assignor.)
- Package Machinery Company. (See Milmo, Michael J., assignor.)
- Package Machinery Company. (See Redington and Milmo, assignors.)
- Packard, Clyde T., Braddock, Pa. Flushing-tank valve mechanism. No. 1,160,441; Nov. 16; Gaz. vol. 220; p. 798.
- Packard, Leonard O., Needham, Mass. Duplicating device. No. 1,146,731; July 13; Gaz. vol. 216; p. 634.
- Packard, Lucretia J., et al. (See Jones, John A., assignor.)
- Packard Motor Car Company. (See Burtzell, Bertram W., assignor.)
- Packard Motor Car Company. (See Church, Harold D., assignor.)
- Packard Motor Car Company. (See Cowles, Edward P., assignor.)
- Packard Motor Car Company. (See Derr, Charles E., assignor.)
- Packard Motor Car Company. (See Huff, Russell, assignor.)
- Packard Motor Car Company. (See Hunt, John H., assignor.)
- Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
- Packard Motor Car Company. (See Joy, Henry B., assignor.)
- Packard Motor Car Company. (See Knight, Alfred H., assignor.)
- Packard Motor Car Company. (See Loomis, Allen, assignor.)
- Packard Motor Car Company. (See McCulla, William R., assignor.)
- Packard Motor Car Company. (See McKinnon, Donald J., assignor.)
- Packard Motor Car Company. (See Moore, Charles J., assignor.)
- Packard Motor Car Company. (See Nagelvoort, Bernard, assignor.)
- Packard Motor Car Company. (See Roberts, Edward F., assignor.)
- Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
- Packard Motor Car Company. (See Trego, Frank H., assignor.)
- Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
- Packard Motor Car Company. (See Waldon, Sidney D., assignor.)
- Packer, Eben R., Wilmette, Iowa. Railway snow-flanger. No. 1,162,096; Nov. 30; Gaz. vol. 220; p. 1475.
- Packer, John H., Pocatello, Idaho. Oil-filter. No. 1,157,717; Oct. 26; Gaz. vol. 219; p. 954.
- Packer, Richard, assignor to J. K. Lanning, Fall River, Mass. Hand-threading shuttle. No. 1,156,034; Oct. 5; Gaz. vol. 219; p. 246.
- Packer, Willard N., Los Angeles, Cal. Shifting-weight power-machine. No. 1,163,553; Dec. 7; Gaz. vol. 221; p. 286.
- Packingham, Reuben M., Granville, Ill. Tube-scraper. No. 1,165,441; Dec. 28; Gaz. vol. 221; p. 1071.
- Padden, David H., Chicago, Ill. Resilient wheel. No. 1,152,966; Sept. 7; Gaz. vol. 218; p. 216.
- Paddock, Ormond H., Toledo, Ohio. Headlight-turning means for vehicles. No. 1,156,623; Oct. 12; Gaz. vol. 219; p. 478.
- Padelford, Ernest W., Attleboro, Mass., assignor to Reliance Manufacturing Company. Buckle. No. 1,159,328; Nov. 2; Gaz. vol. 220; p. 319.

Alphabetical list of patentees—Continued.

- Padula, Vincent P. (See Convery, Martin T., assignor.)
 Paech, Otto, Thorn, Germany. Resecuring slipped slopes of cuts and dams. No. 1,151,608; Aug. 31; Gaz. vol. 217; p. 1366.
 Paeplow, Charles H., Jr. (See Hewitt and Paeplow.)
 Paeth, William H. (See Fullerton, Rushworth, and Paeth.)
 Paffrath, Fritz, Schmalkalden, Germany. Folding grid-iron. No. 1,130,760; Mar. 9; Gaz. vol. 212; p. 355.
 Pafitzko, John. (See Paluch and Pafitzko.)
 Pagano, Joseph, Memphis, Tenn. Automatic stopping device. No. 1,132,791; Mar. 23; Gaz. vol. 212; p. 1160.
 Pagano, Joseph, Memphis, Penn. Gasoline cut-off. No. 1,148,922; Aug. 3; Gaz. vol. 217; p. 155.
 Page, Albert A. (See Shaw and Page.)
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Bench-plane. No. 1,124,325; Jan. 12; Gaz. vol. 210; p. 434.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,126,560; Jan. 26; Gaz. vol. 210; p. 1305.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Mechanism for locking batteries of doors. No. 1,133,659; Mar. 30; Gaz. vol. 212; p. 1510.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,785; May 4; Gaz. vol. 214; p. 22.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,786; May 4; Gaz. vol. 214; p. 23.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,787; May 4; Gaz. vol. 214; p. 23.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,138,580; May 4; Gaz. vol. 214; p. 298.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,138,594; May 4; Gaz. vol. 214; p. 304.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Panic-bolt. No. 1,143,776; June 22; Gaz. vol. 215; p. 1040.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,150,617; Aug. 17; Gaz. vol. 217; p. 923.
 Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Transom-operator. No. 1,150,413; Nov. 9; Gaz. vol. 220; p. 382.
 Page, Caleb D., assignor to Page Portable Buildings Company, Greeley, Colo. Building construction. No. 1,154,203; Sept. 21; Gaz. vol. 218; p. 718.
 Page, Caleb D., assignor to Page Portable Buildings Company, Greeley, Colo. Knockdown building. No. 1,154,204; Sept. 21; Gaz. vol. 218; p. 719.
 Page, Frances M., Springfield, Mass. Duster. No. 1,130,325; Mar. 2; Gaz. vol. 212; p. 167.
 Page, Frank C. B., assignor to E. W. Bliss Company, Brooklyn, N. Y. Driving mechanism for torpedoes. No. 1,155,435; Oct. 5; Gaz. vol. 219; p. 39.
 Page, George J., Colony, Kans. Rubbing-post. No. 1,157,801; Oct. 26; Gaz. vol. 219; p. 983.
 Page, George M., assignor to The Haydenville Company, Haydenville, Mass. Drinking-fountain nozzle. No. 1,158,147; Oct. 26; Gaz. vol. 219; p. 1105.
 Page, Harvey L., assignor of one-half to R. L. Burnett, Sr., San Antonio, Tex. Wrapper. No. 1,134,285; Apr. 6; Gaz. vol. 213; p. 74.
 Page, Herman C., assignor to The Whitehead & Hoag Company, Newark, N. J. Knife. No. 1,134,407; Apr. 6; Gaz. vol. 213; p. 118.
 Page, John C., Brawley, Cal. Wheelbarrow. No. 1,157,034; Oct. 19; Gaz. vol. 219; p. 652.
 Page, John W., Adrian, Mich. Gate for wire fencing. No. 1,132,792; Mar. 23; Gaz. vol. 212; p. 1161.
 Page, John W., Adrian, Mich. Wire crib for forming posts of stone. No. 1,135,134; Apr. 13; Gaz. vol. 213; p. 419.
 Page, Luther T., assignor of one-half to W. E. C. Warr, Wareham, Mass. Shaping-rolls for horseshoe-bars. No. 1,138,145; May 4; Gaz. vol. 214; p. 150.
 Page, Otha M., La Fayette, Ill. Cream-separator. No. 1,150,533; Aug. 17; Gaz. vol. 217; p. 893.
 Page, Paul D., et al. (See Duval, Allen, assignor.)
 Page Portable Buildings Company. (See Page, Caleb D., assignor.)
 Page, Robert R., Brooklyn, N. Y. Etching apparatus. No. 1,152,435; Sept. 7; Gaz. vol. 218; p. 19.
 Page, Roscoe F., Everett, assignor of one-half to L. M. Matson, Snohomish county, Wash. Motion-picture projector. No. 1,159,791; Nov. 9; Gaz. vol. 220; p. 518.
 Page, Ruth K., sole heir. (See Bolinger, Irvin L.)
 Page, William M., Philadelphia, Pa. Making clad metals. No. 1,125,158; Jan. 19; Gaz. vol. 210; p. 768.
 Page, William M., Philadelphia, Pa. Making clad tubular articles. No. 1,125,159; Jan. 19; Gaz. vol. 210; p. 768.
 Page, William M., Philadelphia, Pa. Alloy-surfaced wire and producing the same. No. 1,156,170; Oct. 12; Gaz. vol. 219; p. 319.
 Page, William M., Ridley Park, Pa. Compound metal and making the same. No. 1,125,161; Jan. 19; Gaz. vol. 210; p. 769.
 Page, William M., Ridley Park, Pa. Reinforced copper and making same. No. 1,125,162; Jan. 19; Gaz. vol. 210; p. 769.
 Page, William M., Ridley Park, Pa. Reinforced copper and making the same. No. 1,125,163; Jan. 19; Gaz. vol. 210; p. 769.
 Page, William M., Ridley Park, Pa. Mold. No. 1,134,484; Apr. 6; Gaz. vol. 213; p. 146.
 Page, William M., Ridley Park, and W. Tassin, Chester, Pa. Clad metal and producing the same. No. 1,125,160; Jan. 19; Gaz. vol. 210; p. 768.
 Page, William M., Philadelphia, and W. Tassin, Chester, Pa., assignors to The Duplex Metals Company, New York, N. Y. Copper and producing the same. No. 1,125,164; Jan. 19; Gaz. vol. 210; p. 770.
 Paget, William F. (See Elder and Paget.)
 Pagin, James R., Valparaiso, Ind. Duplex lighting system. No. 1,156,624; Oct. 12; Gaz. vol. 219; p. 478.
 Pahl, Gustav, Chicago, Ill. Combination gas-burner and water-heater. No. 1,124,646; Jan. 12; Gaz. vol. 210; p. 552.
 Paige, Arthur J., Indianapolis, Ind. Packing. No. 1,136,435; Apr. 20; Gaz. vol. 213; p. 917.
 Paige, Austin B., Des Moines, Iowa. Grain-decorticating machine. No. 1,131,787; Mar. 16; Gaz. vol. 212; p. 746.
 Paige, Charles F., assignor of one-third to A. W. Jones, Oakland, Cal. Concentrator. No. 1,140,764; May 25; Gaz. vol. 214; p. 1176.
 Paige, Chester A., Norwood, assignor to C. S. Bird, Walpole, Mass. Waterproof boot or shoe. No. 1,161,720; Nov. 23; Gaz. vol. 220; p. 1296.
 Paige, Jeremiah A., assignor to A. A. Ziegler, trustee, Boston, Mass. Stop mechanism. No. 1,142,906; June 15; Gaz. vol. 215; p. 713.
 Painchaud, Pierre A., Plessisville, Quebec, assignor to J. Poradis and O. Gingras, Quebec, Canada. Quick-detachable elastic tire. No. 1,149,780; Aug. 10; Gaz. vol. 217; p. 566.
 Paine, Edwin N., Provincetown, Mass. Floating fish-trap. No. 1,157,417; Oct. 19; Gaz. vol. 219; p. 789.
 Paine, James C., et al. (See Wells and Saxton, assignors.)
 Paine, Mathew H. (See Kinner and Paine.)
 Paine, William H., Providence, R. I., assignor to Fire Prevention Company. Safety device for controlling the flow of combustible fluids. No. 1,140,313; May 18; Gaz. vol. 214; p. 984.
 Paine, William H., Providence, R. I., assignor to Fire Prevention Company. Thermally-controlled valve. No. 1,142,528; June 8; Gaz. vol. 215; p. 545.
 Paine, William H., Providence, R. I., assignor to Fire Prevention Company. Thermally-controlled valve. No. 1,147,426; July 20; Gaz. vol. 216; p. 898.
 Painter, Otto G., assignor to The Betcher Manufacturing Company, Cleveland, Ohio. Beam-clamp. No. 1,160,194; Nov. 16; Gaz. vol. 220; p. 713.
 Painton, Joseph G., assignor of one-half to G. Dietrich, Buffalo, N. Y. Towel-rack. No. 1,139,366; May 11; Gaz. vol. 214; p. 615.
 Pair, Robert B., Tyler, Tex. Corn and cotton stalk cutter. No. 1,128,496; Feb. 16; Gaz. vol. 211; p. 731.
 Paisley, Elbert E., Portville, N. Y. Basket-cover fastener. No. 1,144,376; June 29; Gaz. vol. 215; p. 1280.
 Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Outlet-fixture. No. 1,126,267; Jan. 26; Gaz. vol. 210; p. 1198.
 Paja, Stanislaw, Plymouth, Pa. Vessel-lifter. No. 1,133,742; Mar. 30; Gaz. vol. 212; p. 1538.
 Palcos, Gustav, Bridgeport, Conn. Combined table and chairs. No. 1,165,018; Dec. 21; Gaz. vol. 221; p. 884.
 Palen, Frederick P., and W. Burlingham, Newport News, Va. Water-tube boiler. No. 1,152,341; Aug. 31; Gaz. vol. 217; p. 1619.
 Pallady, George H., Allerton, Iowa. Broom-corn seeding, booting, and cleaning machine. No. 1,149,281; Aug. 10; Gaz. vol. 217; p. 386.
 Pallady, George H., Allerton, Iowa. Loading attachment to binders. No. 1,154,542; Sept. 21; Gaz. vol. 218; p. 835.
 Palm, Oliver, Albany, Tex. Churn-operating device. No. 1,133,177; Mar. 23; Gaz. vol. 212; p. 1301.
 Palm, Per W., Baudette, Minn. Motor-sled. No. 1,127,501; Feb. 9; Gaz. vol. 211; p. 335.
 Palmar, John T., Richmond, Va. Winker-strap attachment. No. 1,130,836; Mar. 9; Gaz. vol. 212; p. 380.
 Palmar, John T., Richmond, Va. Harness attachment. No. 1,158,833; Nov. 2; Gaz. vol. 220; p. 150.
 Palmba, Edward S., North Chicago, assignor of one-half to F. Palmba, Chicago, Ill. Internal-combustion engine. No. 1,130,014; Mar. 2; Gaz. vol. 212; p. 60.
 Palmba, Frank. (See Palmba, Edward S., assignor.)
 Palmer, Albert D. (See Palmer, Blee, Bowman, and Palmer.)
 Palmer, Alexander F., Algona, Iowa. Truck for transporting corn-conveyers or the like. No. 1,152,207; Aug. 31; Gaz. vol. 217; p. 1572.
 Palmer, Alphonso T., Cicero, Ill. Rail-joint. No. 1,150,618; Aug. 17; Gaz. vol. 217; p. 923.
 Palmer, Amanda M., Los Angeles, Cal. Pessary. No. 1,160,953; Nov. 16; Gaz. vol. 220; p. 982.
 Palmer, Bradley W., et al., trustees. (See Lee and Monks, assignors.)

Alphabetical list of patentees—Continued.

- Palmer, Cassius C. (See Starr and Palmer.)
- Palmer, Charles, C. O. Blee, A. A. Bowman, and A. D. Palmer, Fort Wayne, Ind. Ironing-board. No. 1,125,876; Jan. 19; Gaz. vol. 210; p. 1022.
- Palmer, Charles O., Cleveland, Ohio. Mining-machine. No. 1,149,215; Aug. 10; Gaz. vol. 217; p. 361.
- Palmer, Charles O., Cleveland, Ohio. Rotating device for rock-drills. No. 1,153,700; Sept. 14; Gaz. vol. 218; p. 511.
- Palmer, Charles O., Cleveland, Ohio. Compressed-air system for operating pneumatic tools. No. 1,154,793; Sept. 28; Gaz. vol. 218; p. 950.
- Palmer, Charles O., Cleveland, Ohio. Compressed-air apparatus for operating pneumatic tools. No. 1,154,794; Sept. 28; Gaz. vol. 218; p. 951.
- Palmer, Charles O., Cleveland, Ohio. Compressed-air apparatus for operating pneumatic tools. No. 1,154,795; Sept. 28; Gaz. vol. 218; p. 951.
- Palmer, Charles O., Cleveland, Ohio. Compressed-air apparatus for operating pneumatic tools. No. 1,154,796; Sept. 28; Gaz. vol. 218; p. 952.
- Palmer, Charles O., Cleveland, Ohio. Pneumatic tool. No. 1,154,797; Sept. 28; Gaz. vol. 218; p. 953.
- Palmer, Charles O., Cleveland, Ohio. Governor for air-compressors. No. 1,154,798; Sept. 28; Gaz. vol. 218; p. 953.
- Palmer, Charles S., Newtonville, Mass. Regenerating storage batteries. No. 1,147,261; July 20; Gaz. vol. 216; p. 840.
- Palmer, Clinton D., assignor to Sears, Roebuck and Co., Chicago, Ill. Combined stencil-plate and record-card. No. 1,136,972; Apr. 27; Gaz. vol. 213; p. 1142.
- Palmer, David M. (See Bell, Twitchell, and Palmer.)
- Palmer, Earl C., Pleasant Hill, Ohio. Signal for mail-boxes. No. 1,149,781; Aug. 10; Gaz. vol. 217; p. 566.
- Palmer, Edward H., deceased; E. M. and H. V. Palmer, Reading, and W. H. Roberts, Malden, Mass., executors; assignors to E. M. and H. V. Palmer, individually. Calculating apparatus. No. 1,152,542; Sept. 7; Gaz. vol. 218; p. 60.
- Palmer, Edwin C., *et al.* (See Sale, Robert A., assignor.)
- Palmer, Ella, New York, N. Y. Package-carrier. No. 1,137,523; Apr. 27; Gaz. vol. 213; p. 1342.
- Palmer, Emily M., *et al.*, executors. (See Palmer, Edward H.)
- Palmer, Emma M., Council Bluffs, Iowa. Abdominal supporter. No. 1,150,300; Aug. 17; Gaz. vol. 217; p. 814.
- Palmer, Eugene A., Belle Plaine, Iowa. Resilient wheel. No. 1,133,882; Mar. 30; Gaz. vol. 212; p. 1589.
- Palmer, Forrest N., Atlanta, Ga. Bed structure. No. 1,160,442; Nov. 16; Gaz. vol. 220; p. 798.
- Palmer, Frederick J., Denver, Col. Vehicle-spring. No. 1,156,546; Oct. 12; Gaz. vol. 219; p. 450.
- Palmer, George, Chicago, Ill., assignor to G. L. Willson, New York, N. Y. Printer's blanket. No. 1,147,969; July 27; Gaz. vol. 216; p. 1115.
- Palmer, George L. W., Cambridge, assignor to Greene Mfg. Co., Boston, Mass. Projecting apparatus. No. 1,141,885; June 1; Gaz. vol. 215; p. 278.
- Palmer, George W., Seattle, Wash. Type-writer attachment. No. 1,139,367; May 11; Gaz. vol. 214; p. 615.
- Palmer, George W., Louisville, Ky. Box construction. No. 1,161,072; Nov. 23; Gaz. vol. 220; p. 1068.
- Palmer, Goodlet M. and L. M., Philadelphia, Pa.; said L. M. Palmer assignor of three-twentieths of his one-half right to said Goodlet M. Palmer. Non-refillable bottle and like vessel. No. 1,123,580; Jan. 5; Gaz. vol. 210; p. 131.
- Palmer, Goodlet M. and L. M., Philadelphia, Pa., assignors of thirteen-twentieths to G. M. Palmer and seven-twentieths to L. M. Palmer. Non-refillable bottle and like vessel. No. 1,142,978; June 15; Gaz. vol. 215; p. 740.
- Palmer, Granville E., Brookline, Mass. Sealing device. No. 1,146,593; July 13; Gaz. vol. 216; p. 588.
- Palmer, Harlan G., *et al.* (See Bardeen, Hugh A., assignor.)
- Palmer, Harold V., *et al.*, executors. (See Palmer, Edward H.)
- Palmer, Harvey D. (See Baird and Palmer.)
- Palmer, Harvey D. (See Whalen and Palmer.)
- Palmer, Herbert R., assignor to The Gyro Motor Company, Cleveland, Ohio. Revolving-cylinder engine. No. 1,159,079; Nov. 2; Gaz. vol. 220; p. 231.
- Palmer, Herman H., assignor of one-half to S. S. Palmer, Charleston, S. C. Automatic switch. No. 1,129,717; Feb. 23; Gaz. vol. 211; p. 1189.
- Palmer, Herman H., assignor of one-half to W. F. Livingston, Charleston, S. C. Safety and sanitary envelop. No. 1,142,615; June 8; Gaz. vol. 215; p. 573.
- Palmer, Howard V., Dumont, N. J. Photographic device. No. 1,143,722; June 22; Gaz. vol. 215; p. 1022.
- Palmer, Isaac E., assignor to I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 1,130,193; Mar. 2; Gaz. vol. 212; p. 123.
- Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Supporting-bracket for couch-hammock attachments. No. 1,161,408; Nov. 23; Gaz. vol. 220; p. 1191.
- Palmer, Isaac E., deceased; T. and N. T. Palmer, administrators, Middletown, Conn. Combined commercial catalogue and portfolio and art of compiling issuable catalogues therefrom. No. 1,127,370; Feb. 2; Gaz. vol. 211; p. 245.
- Palmer, Isaac E., deceased, Middletown, Conn.; T. and N. T. Palmer, administrators. Textile-storage apparatus. No. 1,160,111; Nov. 9; Gaz. vol. 220; p. 631.
- Palmer, Isaac E., deceased, Middletown, Conn.; T. and N. T. Palmer, administrators. Washing or rinsing machine for textile material. No. 1,165,896; Dec. 28; Gaz. vol. 221; p. 1229.
- Palmer, James, Madison, N. J. Closet attachment. No. 1,150,301; Aug. 17; Gaz. vol. 217; p. 814.
- Palmer, Joel C. R., Brooklyn, assignor to Western Electric Company, New York, N. Y. Telephone-transmitter. No. 1,132,613; Mar. 23; Gaz. vol. 212; p. 1095.
- Palmer, Joel C. R., New Rochelle, assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,148,923; Aug. 3; Gaz. vol. 217; p. 155.
- Palmer, John F., Milwaukee, Wis. Roll-paper holder. No. 1,127,918; Feb. 9; Gaz. vol. 211; p. 480.
- Palmer, John F., Milwaukee, Wis. Blackboard-eraser. No. 1,157,718; Oct. 26; Gaz. vol. 219; p. 954.
- Palmer, John J., Minneapolis, Minn. Brick-machine. No. 1,123,358; Jan. 5; Gaz. vol. 210; p. 56.
- Palmer, Lewis M. (See Palmer, Goodlet M. and L. M.)
- Palmer, Lionel G. H., Roslindale, assignor to Stampafix Company, Inc., Boston, Mass. Theft-proof stamp-affixing machine. No. 1,156,308; Oct. 12; Gaz. vol. 219; p. 364.
- Palmer, Lyndon C., assignor to F. N. Burt Company, Limited, Buffalo, N. Y. Box. No. 1,163,684; Dec. 14; Gaz. vol. 221; p. 376.
- Palmer, Martin J., Seattle, Wash. Angle-gage. No. 1,127,802; Feb. 9; Gaz. vol. 211; p. 440.
- Palmer, Nathalie T., *et al.*, administrators. (See Palmer, Isaac E.)
- Palmer, Ray B., Norwich, N. Y. Ironing-board. No. 1,156,805; Oct. 12; Gaz. vol. 219; p. 539.
- Palmer, Samuel S. (See Palmer, Herman H., assignor.)
- Palmer, Theodore D., assignor to T. D. Palmer Company, Syracuse, N. Y. Clothes-pressing machine. No. 1,141,900; June 1; Gaz. vol. 215; p. 286.
- Palmer, Theodore D., assignor to T. D. Palmer Company, Syracuse, N. Y. Clothes-pressing machine. No. 1,141,901; June 1; Gaz. vol. 215; p. 286.
- Palmer, Theodore D., assignor to T. D. Palmer Company, Syracuse, N. Y. Garment-pressing machine. No. 1,141,902; June 1; Gaz. vol. 215; p. 286.
- Palmer, Theodore D., assignor to T. D. Palmer Company, Syracuse, N. Y. Sad-iron. No. 1,141,903; June 1; Gaz. vol. 215; p. 287.
- Palmer, Theodore D., assignor to T. D. Palmer Company, Syracuse, N. Y. Steam garment-pressing machine. No. 1,154,799; Sept. 28; Gaz. vol. 218; p. 953.
- Palmer, Theron R., Erie, Pa. Vehicle-tire. No. 1,141,723; June 1; Gaz. vol. 215; p. 226.
- Palmer, Townsend, *et al.*, administrators. (See Palmer, Isaac E.)
- Palmer, Truman G., Chicago, Ill. Heater. No. 1,125,387; Jan. 19; Gaz. vol. 210; p. 852.
- Palmer, Verne T., Tuscarora, N. Y. Windmill. No. 1,130,326; Mar. 2; Gaz. vol. 212; p. 168.
- Palmer, Walter G., Hood River, Ore. Fruit-bucket. No. 1,135,944; Apr. 13; Gaz. vol. 213; p. 700.
- Palmer, Willard D., New London, Conn. Truss. No. 1,124,326; Jan. 12; Gaz. vol. 210; p. 435.
- Palmer, William F., assignor of one-sixth to F. A. Mentgen, one-sixth to W. P. Mentgen, and one-sixth to E. B. Mentgen, Sterling, Colo. Horizontally-rotatable wind-wheel. No. 1,126,069; Jan. 26; Gaz. vol. 210; p. 1126.
- Palmer, William H., Jr., Wyncote, Pa. Portable self-contained electric plant. No. 1,134,222; Apr. 6; Gaz. vol. 213; p. 51.
- Palmetto Products Company. (See Lowry, George A., assignor.)
- Palmgren, Carl A., South Chicago, assignor to Steel Art Tool Company, Chicago, Ill. Dog. No. 1,158,832; Nov. 2; Gaz. vol. 220; p. 149.
- Palmgren, Nils G. (See Betulander and Palmgren.)
- Palmquist, Eric W., St. Louis, Mo., assignor to American Steel Foundries, New York, N. Y. Side frame and journal-box. No. 1,143,723; June 22; Gaz. vol. 215; p. 1023.
- Palmros, Alexander, assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Pressure-driven reciprocating tool. (Reissue.) No. 13,882; Feb. 16; Gaz. vol. 211; p. 928.
- Palmros, Alexander, assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Pressure developing and driven tool. No. 1,148,188; July 27; Gaz. vol. 216; p. 1194.
- Palmros, Alexander, assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Pressure developing and driven tool. No. 1,155,264; Sept. 28; Gaz. vol. 218; p. 1109.
- Paltenghi, Louis, *et al.* (See Maynard, Joseph A., assignor.)
- Paltridge Metal Equipment Company, The. (See Gustafson, Edwin, assignor.)

Alphabetical list of patentees—Continued.

- Paluch, John, and J. Paditzko, Garfield, N. J. Station-indicator for cars. No. 1,147,970; July 27; Gaz. vol. 216; p. 1115.
- Paluska, Matheas, Roanoke, assignor, by mesne assignments, to Getz Power Washer Co., Morton, Ill. Wringer. No. 1,158,148; Oct. 26; Gaz. vol. 219; p. 1105.
- Palyford, Robert W. (See McCormick, William D., assignor.)
- Pamer, George, Dayton, Ohio. Driving-gear for automobiles. No. 1,164,206; Dec. 14; Gaz. vol. 221; p. 558.
- Pampe, Eleonore J. J., *et al.* (See Pampe, Franz, assignor.)
- Pampe, Franz, deceased, Halle-on-the-Saale, Germany; E. J. J. Pampe, widow, one-fourth interest, P. O. A. Pampe, son, three-eighths interest, and O. A. R. Pampe, son, three-eighths interest. Separating the first and last runnings in distillation and rectification. No. 1,145,332; July 6; Gaz. vol. 216; p. 123.
- Pampe, Otto A. R., *et al.* (See Pampe, Franz, assignor.)
- Pampe, Phil-Bruno O. A., *et al.* (See Pampe, Franz, assignor.)
- Pamplin, William J., and S. C. Morton, Waycross, Ga., assignors of one-third to C. L. Meister, Wilmington, N. C. Means for lowering and removing locomotive-wheels. No. 1,163,105; Dec. 7; Gaz. vol. 221; p. 129.
- Pan Chemical Company. (See Spanutius, Frederick W., assignor.)
- Panama Banana Food Company. (See Rathbun, William L., assignor.)
- Pancoast, George E., Brooklyn, N. Y. Combined multi-color and perfecting web printing-press. No. 1,138,782; May 11; Gaz. vol. 214; p. 410.
- Pancoast, George E., New York, N. Y. Web-printing machine. No. 1,147,812; July 27; Gaz. vol. 216; p. 1059.
- Pangborn, Leo D., Waterloo, assignor to The Madison Novelty Co., Madison, Wis. Tree-holder. No. 1,165,360; Dec. 21; Gaz. vol. 221; p. 1003.
- Pangerl, Paul, assignor of one-third to E. C. Townsend, Rutledge, Minn. Log-rolling machine. No. 1,136,258; Apr. 20; Gaz. vol. 213; p. 852.
- Panitz, Isidor, Baltimore, Md. Man's union suit. No. 1,155,091; Sept. 28; Gaz. vol. 218; p. 1054.
- Pankey, Alexander, Meridian, Miss. Plow. No. 1,143,309; June 15; Gaz. vol. 215; p. 856.
- Pankratz, Peter J., Stafford, Kans. Centrifugal casting-machine. No. 1,142,840; June 15; Gaz. vol. 215; p. 689.
- Pannecoucke, Hector V., and H. Schaefer, Detroit, Mich. Wheel. No. 1,153,948; Sept. 21; Gaz. vol. 218; p. 633.
- Pannill, Henry, Petersburg, Va. Making moving-picture screens. No. 1,149,940; Aug. 10; Gaz. vol. 217; p. 624.
- Panosh, Louis, Chicago, Ill. Engine. No. 1,133,057; Mar. 23; Gaz. vol. 212; p. 1259.
- Panoulas, Panayiotis, New York, N. Y. Coating and stroking or decorating device. No. 1,148,793; Aug. 3; Gaz. vol. 217; p. 112.
- Pansegrau, Gustav C., assignor of one-half to P. M. Pansegrau, New York, N. Y. Garbage-receptacle. No. 1,141,260; June 1; Gaz. vol. 215; p. 60.
- Pansegrau, Paul M. (See Pansegrau, Gustav C., assignor.)
- Pantazi, Dimitrios, New York, N. Y. Cigarette packing and sealing machine. No. 1,155,002; Sept. 28; Gaz. vol. 218; p. 1020.
- Panther Rubber Manufacturing Company. (See Hall, Bicknell, assignor.)
- Pany, Ferdinand, assignor of one-half to C. Medock, New York, N. Y. Machine for molding dolls' heads. No. 1,152,208; Aug. 31; Gaz. vol. 217; p. 1572.
- Panzl, Romedius, Muskegon, Mich. Apparatus for manufacture of posts and the like of reinforced concrete. No. 1,152,210; Aug. 31; Gaz. vol. 217; p. 1573.
- Paolucci, Donato, New York, N. Y. Device for cutting or forming molding-strips. No. 1,124,509; Jan. 12; Gaz. vol. 210; p. 501.
- Papadimitropoulos, Nikolaus A., Fitzgerald, Ga. Compound fuel. No. 1,123,581; Jan. 5; Gaz. vol. 210; p. 131.
- Pape, Herman G., assignor to Western Electric Company, New York, N. Y. Electromagnetically-operated device. No. 1,124,796; Jan. 12; Gaz. vol. 210; p. 605.
- Pape, Hermann, Oker-in-the-Harz, Germany. Furnace for working up ores. No. 1,144,053; June 22; Gaz. vol. 215; p. 1138.
- Pape, Hermann, Oker-in-the-Harz, Germany. Reduction-furnace. No. 1,144,054; June 22; Gaz. vol. 215; p. 1138.
- Pape, Wilhelm, Charlottenburg, Germany, assignor to General Electric Company. Elastic-fluid turbine. No. 1,156,547; Oct. 12; Gaz. vol. 219; p. 450.
- Paper Working Machines Company. (See Raffel, Tobias E., assignor.)
- Papillon, Alfred, Lowry, La. Oil-burner. No. 1,130,194; Mar. 2; Gaz. vol. 212; p. 123.
- Papin, Alphonse, and D. Rouilly, Paris, France. Helicopter. No. 1,133,660; Mar. 30; Gaz. vol. 212; p. 1510.
- Papini, Anthony, South Bethlehem, assignor of forty one-hundredths to E. Liedke, Allentown, Pa. Gas-burner and valve-actuating mechanism. No. 1,142,454; June 8; Gaz. vol. 215; p. 519.
- Pappadakes, Gust P., New York, N. Y. Resilient wheel. No. 1,142,907; June 15; Gaz. vol. 215; p. 714.
- Pappas, Peter. (See Lacey and Clingenpeel, assignors.)
- Pappert, William E., New York, N. Y. Vulcanizing-flask for dentists. No. 1,145,433; July 6; Gaz. vol. 216; p. 159.
- Paprian, Ignace, Pittsburgh, Pa., assignor of forty-nine one-hundredths to H. Ahlert and J. C. Ball. Toy pistol. No. 1,133,235; Mar. 23; Gaz. vol. 212; p. 1319.
- Paquet, Charles, Okmulgee, Okla. Glass-working apparatus. No. 1,136,832; Apr. 20; Gaz. vol. 213; p. 1057.
- Paquet, Pierre J., Jeannette, Pa. Glass-furnace. No. 1,131,788; Mar. 16; Gaz. vol. 212; p. 746.
- Paquet, Pierre J., Salem, W. Va. Glass-blowing apparatus. No. 1,140,314; May 18; Gaz. vol. 214; p. 984.
- Paquet, Pierre J., Salem, W. Va. Glass-drawing apparatus. No. 1,144,234; June 22; Gaz. vol. 215; p. 1203.
- Paquette, Alfred, East Boston, Mass., assignor to New England Butt Company, Providence, R. I. Carrier for braiding-machines. No. 1,138,243; May 4; Gaz. vol. 214; p. 182.
- Paquette, Amie V., assignor to L. B. Allen Co., Chicago, Ill. Soldering-iron. No. 1,161,960; Nov. 30; Gaz. vol. 220; p. 1428.
- Paquette, Amie V., assignor to L. B. Allen Co., Chicago, Ill. Soldering-iron. No. 1,165,897; Dec. 28; Gaz. vol. 221; p. 1229.
- Paquette, Charles M., Newark, N. J. Scarf-holder. No. 1,134,900; Apr. 6; Gaz. vol. 213; p. 292.
- Paquette, Herman A., assignor to H. A. F. Cooking Utensil Mfg. Co., Chicago, Ill. Cooking utensil. No. 1,142,052; June 8; Gaz. vol. 215; p. 376.
- Paradine, James A., Erie, Pa. Screen. No. 1,127,502; Feb. 9; Gaz. vol. 211; p. 335.
- Paradise Brooder Company, The. (See Bradley and Elliott, assignors.)
- Paradise, Samuel R., Valparaiso, Ind. Anchoring device. No. 1,148,924; Aug. 3; Gaz. vol. 217; p. 156.
- Paradise, Thomas E., La Crosse, Wis. Valve-gear for locomotives. No. 1,159,600; Nov. 9; Gaz. vol. 220; p. 448.
- Paragon Fibre Coloring Corporation. (See Neben, Emil T., assignor.)
- Paramount Glass Percolator Mfg. Co. (See Darling, Richard S., assignor.)
- Paramount Knitting Company, The. (See Pope, Frank, assignor.)
- Paramount Knitting Company. (See Randall, Edison E., assignor.)
- Paramount Rubber Company, The. (See Roberts, Fred T., assignor.)
- Paranjape, Anant B. (See Kallanjee and Paranjape.)
- Pardee, Frank, Hazleton, Pa. Apparatus for separating coal, ore, &c. No. 1,149,463; Aug. 10; Gaz. vol. 217; p. 451.
- Pardey, Alfred O. (See Keene, George F., assignor.)
- Pardington, Thomas C., Cincinnati, and J. G. Ashby, Montgomery, Ohio. Treating garbage. No. 1,145,845; July 6; Gaz. vol. 216; p. 305.
- Pardini, Frank J., Carson City, Nev. Nut-lock. No. 1,126,847; Feb. 2; Gaz. vol. 211; p. 66.
- Pardini, Frank J., Carson City, Nev. Non-refillable bottle. No. 1,139,900; May 18; Gaz. vol. 214; p. 840.
- Paré, Jean L. A., Montreal, Quebec, Canada. Alimentary product. No. 1,128,357; Feb. 16; Gaz. vol. 211; p. 683.
- Parent, Joseph, St. Louis, Mo. Cabinet. No. 1,125,591; Jan. 19; Gaz. vol. 210; p. 921.
- Parent, Ludger M., Boston, Mass. Beverage-mixer. No. 1,141,207; June 1; Gaz. vol. 215; p. 42.
- Parent, Samuel, Adams, Mass. Trolley-wheel mount. No. 1,146,203; July 13; Gaz. vol. 216; p. 450.
- Parham, William H., Knoxville, Tenn. Vehicle-wheel. No. 1,163,258; Dec. 7; Gaz. vol. 221; p. 184.
- Paridon, Michael, Oswego, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Machine for packing matches. No. 1,146,346; July 13; Gaz. vol. 216; p. 499.
- Paridon, Michael, Oswego, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Match-machine. No. 1,165,536; Dec. 28; Gaz. vol. 221; p. 1102.
- Paridy, Charles, Belleville, Ill. Sack-tie. No. 1,136,259; Apr. 20; Gaz. vol. 213; p. 853.
- Paris, Rudolph H., Philadelphia, Pa. Ridge-cutter. No. 1,160,443; Nov. 16; Gaz. vol. 220; p. 798.
- Parish, Albert M., Chicago, Ill. Window-sash holder. No. 1,128,181; Feb. 9; Gaz. vol. 211; p. 573.
- Parish, Le Grand, New York, N. Y. Locomotive-fire-box construction. No. 1,125,592; Jan. 19; Gaz. vol. 210; p. 921.
- Parish, Le Grand, New York, N. Y. Locomotive-fire-box construction. No. 1,156,368; Oct. 12; Gaz. vol. 219; p. 387.
- Parish, Le Grand, assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,138,056; May 4; Gaz. vol. 214; p. 117.
- Parish, Le Grand, assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler fire-box. No. 1,138,062; May 4; Gaz. vol. 214; p. 120.
- Parisho, George W., assignor of one-half to J. G. Lescher, St. Louis, Mo. Clamp for concrete-forms. No. 1,144,778; June 29; Gaz. vol. 215; p. 1417.

- Parisian Novelty Company. (See Komorous, Joseph, assignor.)
- Parizek, Frank, Chicago, Ill. Hinge. No. 1,159,529; Nov. 9; Gaz. vol. 220; p. 422.
- Park, Albert V., South Melbourne, Melbourne, Victoria, Australia. Mill for treating ores and the like. No. 1,139,064; May 11; Gaz. vol. 214; p. 511.
- Park Bros. & Rogers. (See Oliver, Walter E., assignor.)
- Park, Frank L., and W. R. Moore, Weed, Cal. Cut-off stop table. No. 1,128,896; Feb. 16; Gaz. vol. 211; p. 870.
- Park, Howard L., Reading, Mass. Form for making cement or concrete steps. No. 1,124,327; Jan. 12; Gaz. vol. 210; p. 435.
- Park, John, New York, N. Y. Portable joint for ropes, wire, and the like. No. 1,159,863; Nov. 9; Gaz. vol. 220; p. 545.
- Park, Morey A., et al. (See Mellon, Charles E., assignor.)
- Park, Philip B., Alexandria, Va. Gang-plank. No. 1,151,816; Aug. 31; Gaz. vol. 217; p. 1438.
- Park, Richard T., South Melbourne, Victoria, Australia. Apparatus for cutting lemons and the like. No. 1,124,797; Jan. 12; Gaz. vol. 210; p. 605.
- Park, Richard T., South Melbourne, Melbourne, Victoria, assignor to R. T. P. Patent Wheels Proprietary Limited, Melbourne, Australia. Resilient wheel. No. 1,139,065; May 11; Gaz. vol. 214; p. 512.
- Park, Samuel T., and J. E. Phillips, Danville, assignors to Locomotive Recording Dynamometer Company, Chicago, Ill. Recording instrument. No. 1,138,011; May 4; Gaz. vol. 214; p. 100.
- Park, Thomas L., San Diego, Cal. Lock for automobiles. No. 1,136,358; Apr. 20; Gaz. vol. 213; p. 888.
- Park, William, Brantford, Ontario, Canada. Tellurian. No. 1,131,263; Mar. 9; Gaz. vol. 212; p. 527.
- Park, William, Brantford, Ontario, Canada. Tellurian. No. 1,135,204; Apr. 13; Gaz. vol. 213; p. 443.
- Park, William H., New York, N. Y., assignor, by mesne assignments, to E. R. Squibb & Sons Research & Biological Laboratories. Serum-container. No. 1,143,855; June 22; Gaz. vol. 215; p. 1068.
- Parke, John Y., Philadelphia, Pa. Gas-lighter. No. 1,130,195; Mar. 2; Gaz. vol. 212; p. 124.
- Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Grain-tight box-car. No. 1,153,249; Sept. 14; Gaz. vol. 218; p. 350.
- Parke, Roderick J. M., and E. D. Brand, Toronto, Ontario, Canada. Electric heating element. No. 1,123,789; Jan. 5; Gaz. vol. 210; p. 202.
- Parker, Arthur H., et al. (See Bowers, Barber and Grover, assignors.)
- Parker, Arthur H., et al. (See Reid, Robert and A. S., assignors.)
- Parker, Arthur M. (See Elliott, Harvey, assignor.)
- Parker Brothers. (See Parker, George S., assignor.)
- Parker, Charles C. (See Brown and Parker.)
- Parker, Charles C., Baltimore, Md. Jar-closure. No. 1,135,713; Apr. 13; Gaz. vol. 213; p. 621.
- Parker, Charles W., Kansas City, Mo., and T. H. Wittliff, North Fort Worth, Tex., assignors to The Automatic Lifting Jack Company, Dayton, Ohio. Lifting-jack. No. 1,124,942; Jan. 12; Gaz. vol. 210; p. 655.
- Parker, Clarence L., Los Angeles, Cal. Deep-well outfit. No. 1,149,677; Aug. 10; Gaz. vol. 217; p. 530.
- Parker, Clark H., Beaver Dam, Wis. Gas-engine valve. No. 1,137,890; May 4; Gaz. vol. 214; p. 58.
- Parker, Clark W., assignor to Parker Transmission and Appliance Company, Springfield, Mass. Clutch and brake mechanism. No. 1,126,848; Feb. 2; Gaz. vol. 211; p. 66.
- Parker Clock Company, The. (See Wachtelhausen, Henry W., assignor.)
- Parker, Daniel W., Everett, Wash. Stone-sawing machine. No. 1,143,856; June 22; Gaz. vol. 215; p. 1069.
- Parker, Eli J., Florence, Ala. Heating-stove. No. 1,160,954; Nov. 16; Gaz. vol. 220; p. 982.
- Parker, Eliab. (See Redding, Jerome, assignor.)
- Parker, Fred G., assignor to Cabinet Spring-Seat Company, Paterson, N. J. Automobile-seat. No. 1,146,347; July 13; Gaz. vol. 216; p. 499.
- Parker, Fred R. (See Naylor, George H., assignor.)
- Parker, George A., Hartford, assignor of one-half to F. G. Whitmore, West Hartford, Conn. Park-bench. No. 1,154,268; Sept. 21; Gaz. vol. 218; p. 742.
- Parker, George D., Riverside, Cal. Fruit-grader. No. 1,139,714; May 18; Gaz. vol. 214; p. 775.
- Parker, George D., Riverside, Cal. Fruit-sizing apparatus. No. 1,145,079; July 6; Gaz. vol. 216; p. 38.
- Parker, George D., Riverside, Cal. Fruit-grader. No. 1,149,402; Aug. 10; Gaz. vol. 217; p. 429.
- Parker, George D., Riverside, Cal. Apparatus for drying fruit. No. 1,158,388; Oct. 26; Gaz. vol. 219; p. 1189.
- Parker, George K., Ogden, Utah. Fish screen or barrier. No. 1,129,005; Feb. 16; Gaz. vol. 211; p. 909.
- Parker, George S., Salem, Mass., assignor to Parker Brothers, Incorporated, Portland, Me. Card game. No. 1,129,423; Feb. 23; Gaz. vol. 211; p. 1091.
- Parker, George W., Jr. (See Pfeiffer, Charles G., assignor.)
- Parker, Guy O., Tampa, Fla. Coupling. No. 1,158,714; Nov. 2; Gaz. vol. 220; p. 106.
- Parker, Harlow D., assignor of one-tenth to E. H. Phillips, Buffalo, N. Y. Vibratory electric bath-blanket. No. 1,158,834; Nov. 2; Gaz. vol. 220; p. 150.
- Parker, Henry C. (See MacDonald and Parker.)
- Parker, Henry K., and J. T. Nusbaum, Wagoner, Okla. Combined butter and egg case. No. 1,163,363; Dec. 7; Gaz. vol. 221; p. 221.
- Parker, Howard, assignor to Improved Paper Machinery Company, Nashua, N. H. Machine for forming bodies from successive layers of pulp. No. 1,147,262; July 20; Gaz. vol. 216; p. 840.
- Parker, Joseph T., Washington, D. C. Apparatus for submarine photography. No. 1,149,678; Aug. 10; Gaz. vol. 217; p. 531.
- Parker, Joseph T., Washington, D. C. Projectile for ordnance. No. 1,149,679; Aug. 10; Gaz. vol. 217; p. 531.
- Parker, Joseph T., Washington, D. C. Stabilizer for aeroplanes. No. 1,149,680; Aug. 10; Gaz. vol. 217; p. 531.
- Parker, Joseph T., Washington, D. C. Submarine vessel. No. 1,154,126; Sept. 21; Gaz. vol. 218; p. 693.
- Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Book-match. No. 1,154,586; Sept. 21; Gaz. vol. 218; p. 852.
- Parker, McRea. (See Rogers and Parker.)
- Parker, Morgan, Newport, R. I. Detachable-blade knife. No. 1,139,796; May 18; Gaz. vol. 214; p. 804.
- Parker, Pitman W., San Diego, Cal. Machine for making tile or pipe. No. 1,142,616; June 8; Gaz. vol. 215; p. 573.
- Parker, Ralyzmond A. (See Goodell, Alfred P., assignor.)
- Parker, Robert E., Franklin, Pa. Mantel fireplace-heater. No. 1,145,387; July 6; Gaz. vol. 216; p. 143.
- Parker, Stanley, New Britain, Conn. Extensible radiator-brush. No. 1,138,244; May 4; Gaz. vol. 214; p. 182.
- Parker, Thomas L., Chicago, Ill. Snap-switch. No. 1,163,685; Dec. 14; Gaz. vol. 221; p. 376.
- Parker, Thomas R. G. (See Pearce, Parker, and Wright.)
- Parker, Thomas R. G., Broadheath, assignor to Linotype and Machinery Limited, London, England. Printing-press. No. 1,127,672; Feb. 9; Gaz. vol. 211; p. 390.
- Parker, Thomas R. G., Broadheath, assignor to Linotype and Machinery Limited, London, England. Rotary offset-sheet-printing press adapting it to perfect. No. 1,131,950; Mar. 16; Gaz. vol. 212; p. 804.
- Parker, Thomas R. G., Broadheath, assignor to Linotype and Machinery Limited, London, England. Apparatus for printing late news in web-printing presses or for other purposes. No. 1,160,444; Nov. 16; Gaz. vol. 220; p. 799.
- Parker, Thomas R. G., and W. Lee, Broadheath, assignors to Linotype and Machinery Limited, London, England. Device for clamping printing-plates to the cylinders of printing-presses. No. 1,158,269; Oct. 26; Gaz. vol. 219; p. 1146.
- Parker Transmission and Appliance Company. (See Parker, Clark W., assignor.)
- Parker, William E., assignor to American Graphophone Company, Bridgeport, Conn. Sound-box. No. 1,133,883; Mar. 30; Gaz. vol. 212; p. 1590.
- Parker, Winthrop, Manchester, N. H. Spinning and twisting machine. No. 1,147,042; July 20; Gaz. vol. 216; p. 764.
- Parker Wire Goods Company. (See Bryning, Percy L., assignor.)
- Parke, Bert L., Milford, Ill. Cultivator attachment. No. 1,126,849; Feb. 2; Gaz. vol. 211; p. 67.
- Parke, Bertrand A. (See Sibson and Parkes.)
- Parke, Bertrand A., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Fabric-drying machine. No. 1,125,707; Jan. 19; Gaz. vol. 210; p. 966.
- Parke, Bertrand A., Barren Hill, assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Automatic loop-drying machine. No. 1,125,910; Jan. 19; Gaz. vol. 210; p. 1035.
- Parke, Bertrand A., Barren Hill, assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Fabric-tube-opening device. No. 1,141,883; June 1; Gaz. vol. 215; p. 277.
- Parke, John L., assignor of one-half to A. C. Brown, Chicago, Ill. Pipe-connector. No. 1,135,135; Apr. 13; Gaz. vol. 213; p. 420.
- Parke, John L., assignor of one-half to A. C. Brown, Chicago, Ill. Engine-priming device. No. 1,162,803; Dec. 7; Gaz. vol. 221; p. 25.
- Parke Machine Company, The. (See Parkes, William N., assignor.)
- Parkes, Samuel R., Willenhall, England. Means for adjusting ball-bearings. No. 1,165,537; Dec. 28; Gaz. vol. 221; p. 1103.
- Parkes, William N., Brooklyn, assignor to The Parkes Machine Company, New York, N. Y. Stitch-forming mechanism for sewing-machines. No. 1,141,092; May 25; Gaz. vol. 214; p. 1291.
- Parkes, William N., Brooklyn, N. Y., assignor to The Singer Manufacturing Company. Sewing-machine take-up. No. 1,148,794; Aug. 3; Gaz. vol. 217; p. 112.

Alphabetical list of patentees—Continued.

- Parkhurst, Edward B., and L. W. Witry, assignors to The Waterloo Gasoline Engine Company, Waterloo, Iowa. Friction-clutch. No. 1,143,063; June 15; Gaz. vol. 215; p. 769.
- Parkinson, John A., Sioux City, Iowa. Motor-starter. No. 1,141,261; June 1; Gaz. vol. 215; p. 60.
- Parkinson, John A., Sioux City, Iowa. Actuating means for motor-starters. No. 1,155,003; Sept. 28; Gaz. vol. 218; p. 1021.
- Parkinson and W. & B. Cowan Limited. (See Scott, Thomas, assignor.)
- Parkinson, William R., Centralia, Ill. Life-boat. No. 1,129,718; Feb. 23; Gaz. vol. 211; p. 1190.
- Parks, Charles H., assignor of one-half to D. S. Goodwin, Waterbury, Conn. Magnetic brad-set. No. 1,141,073; May 25; Gaz. vol. 214; p. 1284.
- Parks, Clifton A., Chicago, Ill. Electrolytic apparatus. No. 1,131,859; Mar. 16; Gaz. vol. 212; p. 772.
- Parks, Dennis. (See Mitchell and Parks.)
- Parks, Dennis. (See Wolfe and Parks.)
- Parks, Fred L., Greenville Junction, Me. Shaving-cabinet. No. 1,128,497; Feb. 16; Gaz. vol. 211; p. 731.
- Parks, H. J., et al. (See Carpenter, Mason P., assignor.)
- Parks, Harry S., Philadelphia, Pa., assignor to Pneumercator Company. Pneumatic depth-indicator. No. 1,131,412; Mar. 9; Gaz. vol. 212; p. 579.
- Parks, William H., assignor to F. W. Harden, Baltimore, Md. Machine for cleaning short hair. No. 1,147,747; July 27; Gaz. vol. 216; p. 1037.
- Parlett, Edgar M., Baltimore, Md. Sanitary drinking device. No. 1,162,644; Nov. 30; Gaz. vol. 220; p. 1659.
- Parlier, George Y., Carrollton, Ga. Stove-damper. No. 1,126,652; Jan. 26; Gaz. vol. 210; p. 1338.
- Parlin & Orendorff Company. (See Dewey, Frederic L., assignor.)
- Parlin & Orendorff Company. (See Graham, William S., assignor.)
- Parlmer, Lewis W., Levering, Mich. Grinding mechanism. No. 1,123,790; Jan. 5; Gaz. vol. 210; p. 203.
- Parmelec, Lewis E., Hilliards, Mich. Cutting-machine. No. 1,165,119; Dec. 21; Gaz. vol. 221; p. 921.
- Parmelec, Walter E., Meriden, Conn. Arch-support. No. 1,146,899; July 20; Gaz. vol. 216; p. 713.
- Parmenter, Frank C. (See Cole, Albert L., assignor.)
- Parmenter, George A., Cambridge, Mass. Fender for motor-cars. No. 1,153,566; Sept. 14; Gaz. vol. 218; p. 466.
- Parmenter, George A., Boston, Mass. Pipe and nut wrench. No. 1,155,955; Oct. 5; Gaz. vol. 219; p. 219.
- Parmenter, George B. (See Vary and Parmenter.)
- Parmenter, John W., Springfield, Ohio. Buckle. No. 1,133,396; Mar. 30; Gaz. vol. 212; p. 1414.
- Parmeter, Thomas L., Westport, S. D. Skate-runner. No. 1,129,503; Feb. 23; Gaz. vol. 211; p. 1119.
- Parmfelt, Harald T., Lund, and F. A. Tullberg, Alnarp, Åkarp, Sweden; said Tullberg assignor to said Parmfelt. Harvester. No. 1,149,681; Aug. 10; Gaz. vol. 217; p. 531.
- Parmley, Walter C., Montclair, N. J. Concrete and steel construction. No. 1,131,646; Mar. 9; Gaz. vol. 212; p. 662.
- Parmley, Walter C., Upper Montclair, N. J. Concrete pipe. No. 1,133,313; Mar. 30; Gaz. vol. 212; p. 1383.
- Parmly, Eleazar, Jr., Washington, D. C., assignor to Elliott-Fisher Company, Harrisburg, Pa. Tabulating, back-spacing, key-connecting, and color-selecting mechanism. No. 1,143,223; June 15; Gaz. vol. 215; p. 827.
- Parnall, Archie E., assignor, by mesne assignments, to F. W. Williams, Chicago, Ill. Graphophone. No. 1,130,837; Mar. 9; Gaz. vol. 212; p. 380.
- Parnall, George G., Bristol, England. Stand for golf caddie-bags and the like. No. 1,135,464; Apr. 13; Gaz. vol. 213; p. 532.
- Parr, George T., Minneapolis, Minn. Bottle-closure. No. 1,131,544; Mar. 9; Gaz. vol. 212; p. 624.
- Parr, Gertrude E., et al. (See Parr, Webster A., assignor.)
- Parr, Harry L. (See Keller, Warman, and Parr.)
- Parr, Joseph, River Homes, Wash. Step-ladder. No. 1,146,094; July 13; Gaz. vol. 216; p. 412.
- Parr, Samuel W., Urbana, Ill. Calorimetric apparatus. No. 1,136,359; Apr. 20; Gaz. vol. 213; p. 888.
- Parr, Samuel W., Urbana, Ill. Calorimeter. No. 1,136,360; Apr. 20; Gaz. vol. 213; p. 889.
- Parr, Samuel W., Urbana, Ill. Combustion device. No. 1,136,361; Apr. 20; Gaz. vol. 213; p. 889.
- Parr, Webster A., assignor of one-half to W. Featherngill, Franklin, Ind. Antiskid device. No. 1,128,035; Feb. 9; Gaz. vol. 211; p. 522.
- Parr, Webster A., assignor, by mesne assignments, of one-half to G. E. Parr and one-half to L. M. Coons, Indianapolis, Ind. Horse-collar. No. 1,153,852; Sept. 14; Gaz. vol. 218; p. 565.
- Parramore, Reddin W., Somerville, N. J. Plow attachment. No. 1,138,307; May 4; Gaz. vol. 214; p. 205.
- Parrett, Dent, Wenona, Ill., assignor to Parrett Tractor Company. Tractor. No. 1,149,403; Aug. 10; Gaz. vol. 217; p. 429.
- Parrett, Lee M., Butte, Mont. Proportional dividing instrument. No. 1,125,388; Jan. 19; Gaz. vol. 210; p. 852.
- Parrett Tractor Company. (See Parrett, Dent, assignor.)
- Parrigin, Frank S., Lexington, Ky. Base-plate. (Re-issue.) No. 13,953; July 27; Gaz. vol. 216; p. 1302.
- Parris, Caleb S., Boston, Mass. Fire-escape. No. 1,163,032; Dec. 7; Gaz. vol. 221; p. 104.
- Parris, Edward L., Jr., New York, N. Y. Ignition apparatus for explosion-engines. No. 1,134,053; Mar. 30; Gaz. vol. 212; p. 1645.
- Parrish, Benjamin F., et al. (See Degenhardt, John J., assignor.)
- Parrish, Homer A., assignor of one-tenth to G. E. Dunbar, Kalamazoo, Mich. Electric relay. No. 1,161,073; Nov. 23; Gaz. vol. 220; p. 1068.
- Parrish, James S., assignor to Richmond Cedar Works, Richmond, Va. Ice-cream freezer. No. 1,144,667; June 29; Gaz. vol. 215; p. 1378.
- Parrish, Mary B. (See McNeill and Parrish.)
- Parrott, Bert R., assignor to The Parrott Heater Company, Jackson, Mich. Gas-burner. No. 1,135,047; Apr. 13; Gaz. vol. 213; p. 390.
- Parrott & Company. (See Wiet, Eugene, assignor.)
- Parrott Heater Company, The. (See Parrott, Bert R., assignor.)
- Parrott, Isaac C., Asheville, N. C. Extension car-step. No. 1,163,106; Dec. 7; Gaz. vol. 221; p. 129.
- Parrott, John F., assignor of one-half to G. P. Henderson, Portland, Oreg. Differential gearing. No. 1,162,097; Nov. 30; Gaz. vol. 220; p. 1476.
- Parrott, Richard D. A., New York, N. Y. Jetty construction. No. 1,129,719; Feb. 23; Gaz. vol. 211; p. 1190.
- Parrott, Van Cleave A., Sumter, S. C. Food product and making the same. No. 1,154,721; Sept. 28; Gaz. vol. 218; p. 926.
- Parry Manufacturing Company. (See Parry, Thomas H., assignor.)
- Parry, Thomas H., assignor to Parry Manufacturing Company, Indianapolis, Ind. Vehicle seat-fastener. No. 1,149,682; Aug. 10; Gaz. vol. 217; p. 532.
- Parry, William H., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Assembling-rig. No. 1,148,713; Aug. 3; Gaz. vol. 217; p. 82.
- Parshall, Seth, Seattle, assignor of one-fifth to A. Weatherhead and one-fifth to I. Reed, Tacoma, Wash. Device for raising sunken vessels. No. 1,136,608; Apr. 20; Gaz. vol. 213; p. 977.
- Parshall, Truman. (See Milne, Charles A., assignor.)
- Parsonow, Myrtle M., Kansas City, Mo. Garment-fastener. No. 1,133,397; Mar. 30; Gaz. vol. 212; p. 1414.
- Parson, Eric V. (See Peterson, Alfred T., assignor.)
- Parsons, Adin, Bondi, near Sydney, New South Wales, Australia. Reed-organ pipe. No. 1,141,262; June 1; Gaz. vol. 215; p. 61.
- Parsons, Anselm, Saranac Lake, N. Y. Aerial bomb. No. 1,159,704; Nov. 9; Gaz. vol. 220; p. 486.
- Parsons, Bertie C., Boston, Mass. Locking means for mowing-machine blades. No. 1,137,662; Apr. 27; Gaz. vol. 213; p. 1387.
- Parsons, Charles A., Newcastle-upon-Tyne, England. Journal-bearing. No. 1,161,721; Nov. 23; Gaz. vol. 220; p. 1297.
- Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend-upon-Tyne, England; said Cook assignor to said Parsons. Surface condenser. No. 1,144,235; June 22; Gaz. vol. 215; p. 1204.
- Parsons, Charles A., A. Q. Carnegie, and G. L. Parsons, Newcastle-upon-Tyne, England; said G. L. Parsons and A. Q. Carnegie assignors to said Charles A. Parsons. Valve-controlling device. No. 1,141,824; June 1; Gaz. vol. 215; p. 258.
- Parsons, Charles C., et al. (See Whitney, Karl T., assignor.)
- Parsons, Dudley R. and G. K., Detroit, Mich. Motor-vehicle. No. 1,147,043; July 20; Gaz. vol. 216; p. 764.
- Parsons, Elmer C., Litchfield, Minn. Aeroplane. No. 1,141,002; May 25; Gaz. vol. 214; p. 1262.
- Parsons, Emory, Lakewood, Ohio. Receptacle-holder. No. 1,144,055; June 22; Gaz. vol. 215; p. 1139.
- Parsons, Frank C., East Cleveland, assignor to The Strong, Carlisle and Hammond Company, Cleveland, Ohio. Furnace. No. 1,132,681; Mar. 23; Gaz. vol. 212; p. 1118.
- Parsons, Frederick W., assignor to The Parsons-Jackson Company, Cleveland, Ohio. Doll. No. 1,136,482; Apr. 20; Gaz. vol. 213; p. 933.
- Parsons, Geoffrey L. (See Parsons, Carnegie, and Parsons.)
- Parsons, George H., assignor of one-half to T. La M. Couch, Stamford, Conn. Pneumatic time-switch. No. 1,139,066; May 11; Gaz. vol. 214; p. 512.
- Parsons, George K. (See Parsons, Dudley R. and G. K.)
- Parsons, Harry E., Berwick, Pa., assignor to American Car and Foundry Company, St. Louis, Mo. End construction for tank-cars. No. 1,140,707; May 25; Gaz. vol. 214; p. 1156.
- Parsons, Houston H., Glendive, Mont. Mounting for torpedo-tubes or the like. No. 1,164,957; Dec. 21; Gaz. vol. 221; p. 863.
- Parsons-Jackson Company, The. (See Parsons, Frederick W., assignor.)
- Parsons, James L., Jr. (See Corby and Parsons.)
- Parsons, John, Westery, R. I. Garment. No. 1,134,901; Apr. 6; Gaz. vol. 213; p. 292.

- Parsons, Peter E., Salt Lake City, Utah. Miter-box and calculator. No. 1,128,718; Feb. 16; Gaz. vol. 211; p. 806.
- Parsons, Philip D., Philadelphia, Pa. Tension means for lawn-tennis rackets. No. 1,140,282; May 18; Gaz. vol. 214; p. 973.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Paper-package. No. 1,158,547; Nov. 2; Gaz. vol. 220; p. 49.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Paper towel for toilet purposes. No. 1,158,548; Nov. 2; Gaz. vol. 220; p. 50.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Paper towel for toilet purposes. No. 1,158,549; Nov. 2; Gaz. vol. 220; p. 50.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Paper towel for toilet purposes. No. 1,158,550; Nov. 2; Gaz. vol. 220; p. 50.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Coin-controlled mechanism. No. 1,164,856; Dec. 21; Gaz. vol. 221; p. 828.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Door-holder. No. 1,151,122; Aug. 24; Gaz. vol. 217; p. 1154.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Hinge for vehicle-doors. No. 1,164,857; Dec. 21; Gaz. vol. 221; p. 828.
- Parsons, Thomas W. S., Torrance, British Columbia, Canada. Spur. No. 1,130,327; Mar. 2; Gaz. vol. 212; p. 168.
- Parsons, Warren J., Huntington, W. Va. Vehicle-spring. No. 1,155,265; Sept. 28; Gaz. vol. 218; p. 1110.
- Parsons, William D., deceased; E. L. Marvin, executor, Joliet, Mont. Direct-drive transmission. No. 1,136,709; Apr. 20; Gaz. vol. 213; p. 1013.
- Parsons, William O., Indianapolis, Ind. Journal-jack. No. 1,132,114; Mar. 16; Gaz. vol. 212; p. 863.
- Parsons, William S., Ladywell, assignor to J. Stone & Company Limited, Deptford, England. Apparatus for ejecting ashes. No. 1,131,951; Mar. 16; Gaz. vol. 212; p. 804.
- Parsons, William S., Ladywell, assignor to J. Stone & Company Limited, Deptford, England. Device for sorting and feeding refuse. No. 1,138,245; May 4; Gaz. vol. 214; p. 182.
- Partida, Rafael L., Torreon, Mexico. Automatic railway-switch device. No. 1,153,819; Sept. 14; Gaz. vol. 218; p. 553.
- Partington, Charles, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Cross-tie. No. 1,133,314; Mar. 30; Gaz. vol. 212; p. 1384.
- Partington, Frederick G., Spokane, Wash. Sanitary drinking-fountain. No. 1,135,917; Apr. 13; Gaz. vol. 213; p. 691.
- Partington, Frederick G., Spokane, Wash. Drinking-cup fountain. (Reissue.) No. 13,902; Apr. 13; Gaz. vol. 213; p. 717.
- Partridge, William A., and W. L. and C. L. Hummel, assignors to Electric Movograph Company, Cleveland, Ohio. Automatic picture-display machine. No. 1,166,384; Dec. 28; Gaz. vol. 221; p. 1406.
- Pascall, Sydney W., London, England. Air-tight cover for jars and bottles. No. 1,138,308; May 4; Gaz. vol. 214; p. 205.
- Paschen, Max, Cöthen, Germany. Apparatus for leaching sacchariferous-vegetable slices. No. 1,134,152; Apr. 6; Gaz. vol. 213; p. 24.
- Paschke, Herbert, Ben Avon Heights, assignor to Armstrong Cork Company, Pittsburgh, Pa. Making artificial-cork articles. No. 1,131,860; Mar. 16; Gaz. vol. 212; p. 772.
- Paschke, Theodore H., Hampton, Nebr. Dirigible automobile-lamp. No. 1,138,404; May 4; Gaz. vol. 214; p. 241.
- Pasco, Martin K., assignor to American Hosiery Company, New Britain, Conn. Coat-sweater. No. 1,160,195; Nov. 16; Gaz. vol. 220; p. 714.
- Pascoe, Joseph, Minneapolis, Minn. Door construction for silos. No. 1,126,653; Jan. 26; Gaz. vol. 210; p. 1338.
- Pasel, Clemens, Essen-Ruhr West, Germany. Guard-rail attachment. No. 1,154,335; Sept. 21; Gaz. vol. 218; p. 766.
- Pasel, Clemens, Heidhausen, near Verden, Germany. Fuel-injecting device. No. 1,155,266; Sept. 28; Gaz. vol. 218; p. 1110.
- Pasha Spark Plug Company. (See Mills, David B., assignor.)
- Pasley, Charles R., Colchester, England. Machine for dehnting cotton-seed. No. 1,131,545; Mar. 9; Gaz. vol. 212; p. 624.
- Pasman, Abram N., Jersey City, N. J. Flush-valve. No. 1,126,070; Jan. 26; Gaz. vol. 210; p. 1126.
- Pasquier, Amand F., Dijon, France. Dephosphorizing pig-iron. No. 1,145,506; July 6; Gaz. vol. 216; p. 186.
- Pass & Seymour. (See Brogren, Pay A., assignor.)
- Pass & Seymour. (See Morey, Harry J., assignor.)
- Passaic Metal Ware Company. (See Karp, Morris, assignor.)
- Passerieux, Marguerite, St. Louis, Mo. Baby-walker. No. 1,154,543; Sept. 21; Gaz. vol. 218; p. 835.
- Passmore, Levis, Philadelphia, Pa. Centerless engine. No. 1,153,702; Sept. 14; Gaz. vol. 218; p. 512.
- Pastor, Frank, Cleveland, Ohio, assignor of one-half to J. Patinka, Nesquehoning, Pa. Elevator safety device. No. 1,139,570; May 18; Gaz. vol. 214; p. 723.
- Pastor, Frank, Cleveland, Ohio, assignor of one-half to J. Patinka, Nesquehoning, Pa. Safety garment-rack. No. 1,148,614; Aug. 3; Gaz. vol. 217; p. 47.
- Paszkievicz, Antoni, Chicago, Ill. Polishing-cylinder. No. 1,162,098; Nov. 30; Gaz. vol. 220; p. 1476.
- Pataud, née De Salles, Marie L. M. J., heiress in trust. (See Pataud, Henri.)
- Pataud, Henri, deceased; M. L. M. J. Pataud, née De Salles, Paris, France, heiress in trust. Device adapted to diminish the wear of parts of certain elastic tires. No. 1,127,803; Feb. 9; Gaz. vol. 211; p. 441.
- Patch, Allen J., Oshkosh, Wis. Differential gearing. No. 1,123,582; Jan. 5; Gaz. vol. 210; p. 131.
- Patch, Calvin B., Glenellyn, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,137,891; May 4; Gaz. vol. 214; p. 58.
- Patch, Calvin B., Glenellyn, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car adjustable side bearing. No. 1,140,184; May 18; Gaz. vol. 214; p. 941.
- Patch, Calvin B., Glenellyn, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,155,436; Oct. 5; Gaz. vol. 219; p. 39.
- Patch, Calvin B., Glenellyn, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,156,094; Oct. 12; Gaz. vol. 219; p. 204.
- Patch, Fred R., Rutland, Vt. Coping-head. No. 1,149,533; Aug. 10; Gaz. vol. 217; p. 475.
- Patch, Richard H., Philadelphia, Pa. Metal alloy. No. 1,162,186; Nov. 30; Gaz. vol. 220; p. 1507.
- Patchel, Le Roy S., Darby, Pa. Kite. No. 1,131,076; Mar. 9; Gaz. vol. 212; p. 463.
- Patchell, William H., et al. (See Jones, Morgan L., assignor.)
- Pate, David B., Hornbeck, La. Oil-burner. No. 1,130,761; Mar. 9; Gaz. vol. 212; p. 355.
- Pate, James W., Jackson, Tenn. Filling-valve for lubricators. No. 1,134,153; Apr. 6; Gaz. vol. 213; p. 25.
- Pate, William T. S., assignor of one-half to H. P. Splittersgerber, Bloomington, Ind. Scraper for vehicle-wheels. No. 1,153,108; Sept. 7; Gaz. vol. 218; p. 263.
- Patek, Charles H. (See Brown and Patek.)
- Patent Appliance Co., The. (See Bryan, Daniel B., assignor.)
- Patent Button Company. (See Carley, Leonard R., assignor.)
- Patent Button Company. (See White, Franklin R., assignor.)
- Patent Products Corporation, The. (See Rosencrantz, Isidor B., assignor.)
- Patented Devices Company. (See Evans, Fred, assignor.)
- Patented Devices Company. (See Hough, William B., assignor.)
- Patented Devices Company. (See Schuett, Albert H., assignor.)
- Patents Selling & Exporting Co. Aktieselskab. (See Schüdt, Frederik V., assignor.)
- Paterson, Dugald S., Philadelphia, Pa. Sheet-packing. No. 1,160,316; Nov. 16; Gaz. vol. 220; p. 755.
- Patinka, John. (See Pastor, Frank, assignor.)
- Patitz, Gerhardt J. (See Henneböble and Patitz.)
- Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fluid-operated engine. No. 1,160,445; Nov. 16; Gaz. vol. 220; p. 799.
- Paton, James W., Liverpool, England. Apparatus for shaping cardboard tubes. No. 1,132,283; Mar. 16; Gaz. vol. 212; p. 927.
- Paton, Robert, Cynwyd, assignor to Keystone Type Foundry, Philadelphia, Pa. Type-casting machine. No. 1,159,705; Nov. 9; Gaz. vol. 220; p. 486.
- Paton, William, Longford Mills, Ontario, Canada. Door-handle. No. 1,164,958; Dec. 21; Gaz. vol. 221; p. 863.
- Paton, William H., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Presser-foot. No. 1,127,274; Feb. 2; Gaz. vol. 211; p. 214.
- Patrick, Joseph S., Oklahoma, Okla. Crude-oil burner. No. 1,149,404; Aug. 10; Gaz. vol. 217; p. 430.
- Patrick, Maxton, Geraldine, South Canterbury, New Zealand. Reinforcement for pneumatic tires. No. 1,159,414; Nov. 9; Gaz. vol. 220; p. 382.
- Patrick, Robert A. (See McConlogue, Robert T., assignor.)
- Patten, Charles W., Lynn, Mass. Amalgamator. No. 1,139,067; May 11; Gaz. vol. 214; p. 512.
- Patten, Elmer E., assignor to St. Louis Cash Register Company, St. Louis, Mo. Register mechanism. No. 1,125,389; Jan. 19; Gaz. vol. 210; p. 853.
- Patten, Elmer E., St. Louis, Mo., assignor to L. Rasieur, Jr., trustee. Adding-machine. No. 1,153,820; Sept. 14; Gaz. vol. 218; p. 554.
- Patten, Ernest L., Malden, assignor to Wellman Company, Medford, Mass. Machine for cutting forms. No. 1,144,429; June 29; Gaz. vol. 215; p. 1299.
- Patten, James, New York, N. Y. Internal heel-cushion. No. 1,166,248; Dec. 28; Gaz. vol. 221; p. 1358.
- Patten, John, Baltimore, Md. Power-generating system. No. 1,154,880; Sept. 28; Gaz. vol. 218; p. 979.
- Patterson, Albert L., and A. M. Ferguson, assignors to National Automatic Fender Company, Seattle, Wash. Car-fender. No. 1,125,877; Jan. 19; Gaz. vol. 210; p. 1023.

Alphabetical list of patentees—Continued.

- Patterson, Alice C. (See Patterson and Badeau, assignors.)
- Patterson-Allen Engineering Company. (See Haynes, George P., assignor.)
- Patterson-Allen Engineering Company. (See Patterson, Franklin M., assignor.)
- Patterson-Allen Engineering Company. (See Riegel, Samuel S., assignor.)
- Patterson, Benjamin G., assignor to The Patterson-Clark Company, Oklahoma, Okla. Hay-bale-tying device. No. 1,152,209; Aug. 31; Gaz. vol. 217; p. 1573.
- Patterson, Charles A., Portland, Oreg. Butter-cutter. No. 1,132,378; Mar. 16; Gaz. vol. 212; p. 960.
- Patterson, Charles A., assignor of one-third to E. B. Clark and one-third to H. C. Hazzard, Baltimore, Md. Locking attachment for valves. No. 1,144,056; June 22; Gaz. vol. 215; p. 1139.
- Patterson, Clara B., Philadelphia, Pa. Hook and eye. No. 1,123,791; Jan. 5; Gaz. vol. 210; p. 203.
- Patterson, Clarence A., Winona, Minn. Manufacture of flour. No. 1,163,168; Dec. 7; Gaz. vol. 221; p. 151.
- Patterson-Clark Company, The. (See Patterson, Benjamin G., assignor.)
- Patterson, Clifford W., Waukesha, Wis. Bait-bucket. No. 1,135,841; Apr. 13; Gaz. vol. 213; p. 606.
- Patterson, Edie J., and F. S. Moore, Stockton, Cal. Tractor. No. 1,127,503; Feb. 9; Gaz. vol. 211; p. 315.
- Patterson, Edward B., Sandpoint, Idaho. Surgical instrument. No. 1,131,413; Mar. 9; Gaz. vol. 212; p. 579.
- Patterson, Francis E., Wilmington, Del. Exercising-machine. No. 1,137,349; Apr. 27; Gaz. vol. 213; p. 1282.
- Patterson, Frank H., Clayton, N. Y. Lawn-mower sharpener. No. 1,163,950; Dec. 14; Gaz. vol. 221; p. 471.
- Patterson, Franklin M., Philadelphia, Pa., assignor to Patterson-Allen Engineering Company. Valve. No. 1,144,968; June 29; Gaz. vol. 215; p. 1482.
- Patterson, Franklin M., Bayonne, N. J., assignor to The Forged Steel Valve Company. Valve. No. 1,148,119; July 27; Gaz. vol. 216; p. 1171.
- Patterson, George L., and I. F. Badeau, assignors to A. C. Patterson, New York, N. Y. Electrically-operated vibrator. No. 1,145,507; July 6; Gaz. vol. 216; p. 186.
- Patterson, Gilbert, Duluth, Minn. Lamp. No. 1,135,317; Apr. 13; Gaz. vol. 213; p. 481.
- Patterson Hydro-Positive Transmission Company. (See Patterson, Thomas S., assignor.)
- Patterson, James F. (See Patterson, James L., assignor.)
- Patterson, James L., Freeport, assignor of one-half to J. F. Patterson, Leaf River, Ill. Nut-lock. No. 1,134,408; Apr. 6; Gaz. vol. 213; p. 118.
- Patterson, James W., assignor to Autosales Gum and Chocolate Company, New York, N. Y. Coin-controlled lock. No. 1,146,018; July 13; Gaz. vol. 216; p. 385.
- Patterson, James W., White Plains, assignor to Autosales Gum and Chocolate Company, New York, N. Y. Coin-operating vending-machine. No. 1,153,446; Sept. 14; Gaz. vol. 218; p. 420.
- Patterson, John, Ozone Park, N. Y. Lathe attachment. No. 1,137,892; May 4; Gaz. vol. 214; p. 59.
- Patterson, John H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,150,958; Aug. 24; Gaz. vol. 217; p. 1099.
- Patterson, John J., Couer d'Alene, Idaho. Tool. No. 1,142,617; June 8; Gaz. vol. 215; p. 574.
- Patterson, John L., Roanoke Rapids, N. C. Cylinder-hammer for jacquards. No. 1,136,260; Apr. 20; Gaz. vol. 213; p. 853.
- Patterson, John L., Roanoke Rapids, and L. A. Grissom, Rosemary, N. C. Pattern-reversing jacquard. No. 1,151,817; Aug. 31; Gaz. vol. 217; p. 1439.
- Patterson, John S. (See Kilrain, Walter A. and A. E., assignors.)
- Patterson, John W. (See White and Patterson.)
- Patterson, John W., Decatur, Ala. Cotton-chopper. No. 1,145,790; July 6; Gaz. vol. 216; p. 285.
- Patterson, Joseph P., Milwaukee, Wis. Lawn-mower. No. 1,140,526; May 25; Gaz. vol. 214; p. 1097.
- Patterson, Joseph W. (See Delaney and Patterson.)
- Patterson, Lewis P., assignor of one-fourth to N. C. Patterson, one-fourth to E. E. Coover, one-fourth to T. W. Garoutte, Springfield, and one-fourth to W. B. Garoutte, Carthage, Mo. Milking-machine. No. 1,139,571; May 18; Gaz. vol. 214; p. 724.
- Patterson, Malvern C., Richmond, Va. Process and apparatus for treating tobacco. No. 1,164,114; Dec. 14; Gaz. vol. 221; p. 528.
- Patterson, Nancy C., et al. (See Patterson, Lewis P., assignor.)
- Patterson, Peter, deceased, Pittsburgh, Pa.; Safe Deposit and Trust Company of Pittsburgh, executor. Apparatus for the manufacture of tubing. No. 1,155,677; Oct. 5; Gaz. vol. 219; p. 122.
- Patterson, Thomas, Elyria, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Apparatus for forging couplings. No. 1,157,637; Oct. 19; Gaz. vol. 219; p. 860.
- Patterson, Thomas S., Philadelphia, Pa., assignor to Patterson Hydro-Positive Transmission Company, Camden, N. J. Transmission-gear. No. 1,129,720; Feb. 23; Gaz. vol. 211; p. 1190.
- Patterson, Warren A., Dallas, Tex. Cotton-boll separator. No. 1,130,102; Mar. 2; Gaz. vol. 212; p. 90.
- Patterson, William. (See Percival and Patterson.)
- Patterson, William L., assignor to Bausch & Lomb Company, Rochester, N. Y. Fine adjustment for microscopes. No. 1,123,583; Jan. 5; Gaz. vol. 210; p. 132.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Apparatus for projecting images of transparent and opaque objects. No. 1,127,504; Feb. 9; Gaz. vol. 211; p. 335.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Arc-lamp. No. 1,129,117; Feb. 23; Gaz. vol. 211; p. 984.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projection apparatus. No. 1,134,154; Apr. 6; Gaz. vol. 213; p. 25.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Holder for projection apparatus. No. 1,146,948; July 20; Gaz. vol. 216; p. 731.
- Partin, Thomas O., Los Angeles, Cal. Hydrocarbon-engine. No. 1,157,728; Oct. 26; Gaz. vol. 219; p. 959.
- Pattinson, Thomas E., Walthamstow, assignor of one-half to C. F. Lumb, London, England. Adjustable cutter for boring bars and the like. No. 1,140,261; May 18; Gaz. vol. 214; p. 966.
- Pattison, Albert W., assignor to Grinnell Electric Car Co., Detroit, Mich. Vehicle-seat. No. 1,143,310; June 15; Gaz. vol. 215; p. 857.
- Pattison, Albert W., assignor to Grinnell Electric Car Co., Detroit, Mich. Steering and controlling system for automobiles. No. 1,154,653; Sept. 28; Gaz. vol. 218; p. 904.
- Pattison, Allen S. (See Dutcher, Frank, assignor.)
- Pattison, William S., Denver, Colo. Mechanical starter for internal-combustion engines. No. 1,127,804; Feb. 9; Gaz. vol. 211; p. 441.
- Patton, George E., Almond, assignor of one-half to A. C. Harman, Hornell, N. Y. Potato-digger. No. 1,125,390; Jan. 19; Gaz. vol. 210; p. 853.
- Patton, Herbert F., Cleveland, Ohio. Projecting apparatus. No. 1,133,178; Mar. 23; Gaz. vol. 212; p. 1301.
- Patton, James R., Aspinwall, Pa. Water-distributor. No. 1,129,898; Mar. 2; Gaz. vol. 212; p. 22.
- Patton, Matthew W., Newberg, Oreg. Tractor. No. 1,126,850; Feb. 2; Gaz. vol. 211; p. 67.
- Patton, Moses F., Tuscaloosa, Ala. Tire-valve cap. No. 1,162,099; Nov. 30; Gaz. vol. 220; p. 1477.
- Patton, Ralph C., Providence, R. I. Thermally-controlled valve. No. 1,129,597; Feb. 23; Gaz. vol. 211; p. 1153.
- Patton, Thomas R., et al. (See Weeks, Charles A., assignor.)
- Patton, William D., Dallas, Tex. Kerosene-burner. No. 1,161,327; Nov. 23; Gaz. vol. 220; p. 1161.
- Patton, William G., Seattle, Wash. Cutting device. No. 1,143,857; June 22; Gaz. vol. 215; p. 1069.
- Paturel, Louis, and P. Laperot, St.-Etienne, France. Internal-combustion gas-turbine. No. 1,133,058; Mar. 23; Gaz. vol. 212; p. 1259.
- Pauer, Emil. (See Krumpholtz and Pauer.)
- Paugh, Albert L., et al. (See Rogers, John T., assignor.)
- Paul, Abram F., London, England, assignor to Prepayment Car Sales Company, New York, N. Y. Passenger-vehicle. No. 1,137,893; May 4; Gaz. vol. 214; p. 59.
- Paul, Abram F., Philadelphia, Pa., and A. J. Tanner, North Haven, Conn., assignors to Prepayment Car Sales Company, New York, N. Y. Passenger-vehicle. No. 1,141,408; June 1; Gaz. vol. 215; p. 116.
- Paul, Andrew R., Somerset, Pa. Soldering-iron. No. 1,132,969; Mar. 23; Gaz. vol. 212; p. 1226.
- Paul, August E., and W. F. Preuss, Chicago, Ill. Educational device. No. 1,148,616; Aug. 3; Gaz. vol. 217; p. 48.
- Paul, Charles O., Kent, Wash. Tractor. No. 1,153,109; Sept. 7; Gaz. vol. 218; p. 263.
- Paul, Christian F., Jr., Peekskill, N. Y. Piston. No. 1,159,530; Nov. 9; Gaz. vol. 220; p. 422.
- Paul Dickinson, Inc. (See Carney, Maurice, assignor.)
- Paul, Edward B., Winthrop, Mass., assignor to A. J. Stacey, Wyoming, Ohio. Coin-handling machine. No. 1,162,734; Nov. 30; Gaz. vol. 220; p. 1691.
- Paul, Harry H., Wilkinsburg, Pa. Seat for window-sills. No. 1,151,818; Aug. 31; Gaz. vol. 217; p. 1439.
- Paul, James H. (See Anderson, Andrew R., assignor.)
- Paul, John T. H., assignor to E. Goldman & Co., Inc., Chicago, Ill. Bottle-washing machine. No. 1,130,015; Mar. 2; Gaz. vol. 212; p. 61.
- Paul, Philomena A., Toledo, Ohio. Washboard-retainer. No. 1,148,615; Aug. 3; Gaz. vol. 217; p. 48.
- Paul, Wesley A., Moline, Ill. Carbonizing pipe-bowls. No. 1,156,171; Oct. 12; Gaz. vol. 219; p. 320.
- Paul, Wesley A., assignor to Deere & Company, Moline, Ill. Plow-beam adjustment. No. 1,136,833; Apr. 20; Gaz. vol. 213; p. 1058.
- Paul, Wesley A., assignor to Deere & Company, Moline, Ill. Lister-cultivator. No. 1,148,613; Aug. 3; Gaz. vol. 217; p. 47.
- Paul, Wesley A., assignor to Deere & Company, Moline, Ill. Gang-plow hitch. No. 1,164,390; Dec. 14; Gaz. vol. 221; p. 624.
- Paul, William J., assignor to L. W. Reed, Pittsburgh, Pa. Sanitary drinking-cup. No. 1,137,018; Apr. 27; Gaz. vol. 213; p. 1160.

- Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,148,043; July 27; Gaz. vol. 216; p. 1142.
- Paulauski, John, Chicago, Ill. Safety device. No. 1,136,710; Apr. 20; Gaz. vol. 213; p. 1014.
- Paulauski, John, Chicago, Ill. Ship. No. 1,136,711; Apr. 20; Gaz. vol. 213; p. 1014.
- Paulauski, John, Chicago, Ill. Ship's fender. No. 1,141,577; June 1; Gaz. vol. 215; p. 175.
- Paulero, Louis, Petersburg, Va. Electric implement. No. 1,128,036; Feb. 9; Gaz. vol. 211; p. 522.
- Paules, John F., *et al.* (See Savidge, William F., assignor.)
- Pauley, Henry F., Sacramento, Cal. Bolt. No. 1,142,618; June 8; Gaz. vol. 215; p. 574.
- Pauli, Carl. (See Shepherd, Pauli, and Pleister.)
- Pauli, Arvin R., Montreal, Quebec, Canada. Paper-stock screening machine. No. 1,149,534; Aug. 10; Gaz. vol. 217; p. 475.
- Pauli, Samuel. (See Ellman and Pauli.)
- Pauli, Samuel, New York, N. Y. Bathing-suit pocket. No. 1,164,010; Dec. 14; Gaz. vol. 221; p. 492.
- Pauli, Samuel, New York, N. Y. Bathing-suit pocket. No. 1,164,011; Dec. 14; Gaz. vol. 221; p. 492.
- Pauls, Peter T., *et al.* (See Le Compte, Joseph H., assignor.)
- Paulsmeler, Albert C., Alameda, assignor to Byron Jackson Iron Works, San Francisco, Cal. Automatic drain and oiling system for deep-well pumps. No. 1,164,012; Dec. 14; Gaz. vol. 221; p. 492.
- Paulson, Arthur R., Clarksfield, Minn. Machine for applying postage-stamps to letters. No. 1,155,956; Oct. 5; Gaz. vol. 219; p. 219.
- Paulson, Charles J., Newark, N. J., and J. E. Simpson, Brooklyn, N. Y. Type-writing machine. No. 1,159,382; Aug. 17; Gaz. vol. 217; p. 841.
- Paulson, Erland, Emerson, N. D. Hay and grain loader and carrier. No. 1,163,033; Dec. 7; Gaz. vol. 221; p. 104.
- Paulson, Helmer R. (See Polson and Paulson.)
- Paulson, Olaf, Benson, Minn. Cross-head-oiling device. No. 1,123,359; Jan. 5; Gaz. vol. 210; p. 56.
- Paulson, Peter A., Appleton, Wis. Acid-absorbing apparatus. No. 1,165,281; Dec. 21; Gaz. vol. 221; p. 976.
- Paulson, Swen, Heber, Utah. Saw setting, filing, and swaging machine. No. 1,132,379; Mar. 16; Gaz. vol. 212; p. 960.
- Pauly, Julius, Los Angeles, Cal. Extension for fire-escapes. No. 1,140,708; May 25; Gaz. vol. 214; p. 1156.
- Pauly, Peter J., Jr., and G. Tanner, St. Louis, Mo. Flush-valve. No. 1,157,035; Oct. 19; Gaz. vol. 219; p. 653.
- Paupa, Joseph, and G. F. Hochriem, Chicago, Ill. Weighing mechanism. No. 1,143,224; June 15; Gaz. vol. 215; p. 827.
- Paus, Rudolph H., Shipley, England. Flushing-cistern. No. 1,142,118; June 8; Gaz. vol. 215; p. 400.
- Pausic, Mijo, *et al.* (See Grozej, Ivan, assignor.)
- Pava, Abraham, Springfield, Mass. Cycle-stand. No. 1,156,369; Oct. 12; Gaz. vol. 219; p. 388.
- Pavelka, Edward, assignor to Gillis & Geoghegan, New York, N. Y. Brake mechanism for hoisting apparatus. No. 1,163,169; Dec. 7; Gaz. vol. 221; p. 152.
- Paveliske, Frank J., and F. F. Malodzik, Cudahy, Wis. Block-refinisher. No. 1,135,714; Apr. 13; Gaz. vol. 213; p. 622.
- Pavesi, Aldo, New York, N. Y. Non-refillable bottle. No. 1,161,328; Nov. 23; Gaz. vol. 220; p. 1161.
- Pavlik, William, Bayport, N. Y. Washing-machine. No. 1,134,409; Apr. 6; Gaz. vol. 213; p. 119.
- Pawlak, William, assignor to J. F. Gubbins, Chicago, Ill. Hopper and guard for wringers. No. 1,161,244; Nov. 23; Gaz. vol. 220; p. 1132.
- Pawlak, William, assignor to J. F. Gubbins, Chicago, Ill. Wringer-guard and feeding device. No. 1,161,245; Nov. 23; Gaz. vol. 220; p. 1132.
- Pawling, Francis W., Terre Haute, Ind. Glass-shear machine. No. 1,164,311; Dec. 14; Gaz. vol. 221; p. 596.
- Pawling and Harnischfeger Company. (See Weickel, Henry, assignor.)
- Pawlowski, Michael. (See Mischansky and Pawlowski.)
- Pawsat, Ewald and H., Sheboygan, Wis. Motor-cycle seat and carrier attachment. No. 1,139,715; May 18; Gaz. vol. 214; p. 776.
- Pawsat, Ewald F., assignor to Wald Manufacturing Company, Sheboygan, Wis. Tandem seat for motor-cycles or the like. No. 1,158,651; Nov. 2; Gaz. vol. 220; p. 51.
- Pawsat, Ewald F., assignor to Wald Manufacturing Company, Sheboygan, Wis. Tandem-seat for bicycles or motor-cycles. No. 1,164,207; Dec. 14; Gaz. vol. 221; p. 559.
- Pawsat, Herman. (See Pawsat, Ewald and H.)
- Paxson, Harold K., Cynwyd, and E. J. Hedden, Bala, Pa. Fireproof partition. No. 1,137,165; Apr. 27; Gaz. vol. 213; p. 1213.
- Paxson, Jonathan V. (See Wolz and Paxson.)
- Paxton, Alexander G., Greenville, Miss. Aeroplane. No. 1,123,360; Jan. 5; Gaz. vol. 210; p. 56.
- Paxton, Heyward A., De Land, Fla. Metallic fence-post and wire-fence-fastening means. No. 1,153,403; Sept. 14; Gaz. vol. 218; p. 406.
- Paxton, John B. and J. T.; said J. T. Paxton assignor to E. I. O'Neill, Philadelphia, Pa. Knitting-machine. No. 1,140,709; May 25; Gaz. vol. 214; p. 1157.
- Paxton, Joseph T. (See Paxton, John B. and J. T.)
- Paxton, William E. (See Buchtel, William D., assignor.)
- Payer, Jacob J., Adams, N. D. Bundle-carrying attachment for harvesters and the like. No. 1,157,719; Oct. 26; Gaz. vol. 219; p. 955.
- Payeur, Benjamin, Winona, Minn. Take-down vapor-bath cabinet. No. 1,144,861; June 29; Gaz. vol. 215; p. 1446.
- Payne, Andrew L., Marion, Ohio. Ironing-board. No. 1,133,661; Mar. 30; Gaz. vol. 212; p. 1511.
- Payne, Bishop M., Sidney, Tex. Two-row planter. No. 1,133,498; Mar. 30; Gaz. vol. 212; p. 1449.
- Payne, Clarence H., Spokane, Wash. Edible-cutter. No. 1,129,223; Feb. 23; Gaz. vol. 211; p. 1020.
- Payne Die Casting Company. (See Le May and House, assignors.)
- Payne, Evalena B., Union Level, Va. Lock-nut. No. 1,134,902; Apr. 6; Gaz. vol. 213; p. 293.
- Payne, Frank, St. Louis, Mo., assignor to American Can Company, New York, N. Y. Sealed package. No. 1,158,073; Oct. 26; Gaz. vol. 219; p. 1079.
- Payne, Fred E., assignor to Goodyear Rubber Company, Middletown, Conn. Heel construction for rubber footwear. No. 1,161,879; Nov. 30; Gaz. vol. 220; p. 1398.
- Payne, George, Orillia, Ontario, Canada. Hospital-bed. No. 1,132,614; Mar. 23; Gaz. vol. 212; p. 1095.
- Payne, Harry W. (See Shepard and Payne.)
- Payne, Ira P., Dubois, Pa. Railway-spike. No. 1,152,656; Sept. 7; Gaz. vol. 218; p. 102.
- Payne, Jesse M., Summerville, Ala., assignor to Perfection Dyeing Machine Company, Columbus, Ga. Spreader attachment for collapsible beams for dyeing-machines. No. 1,140,283; May 18; Gaz. vol. 214; p. 973.
- Payne, Joseph J., Cincinnati, Ohio. Carbureter. No. 1,148,333; July 27; Gaz. vol. 216; p. 1246.
- Payne, M. C., *et al.* (See Kenison and Neely, assignors.)
- Payne, Marshall J., Staunton, Va. Valve for pneumatic tires. No. 1,162,875; Dec. 7; Gaz. vol. 221; p. 49.
- Payne, Matthew, Yonkers, N. Y. Dental syringe. No. 1,150,879; Aug. 24; Gaz. vol. 217; p. 1072.
- Payne, Oscar V., Takoma Park, Md. Locking device. No. 1,156,861; Oct. 12; Gaz. vol. 219; p. 561.
- Payne, Raymond P., Leeds, England. Rotary printing-machine. No. 1,148,120; July 27; Gaz. vol. 216; p. 1171.
- Payne, Roy K., Beaverton, Oreg. Safety attachment for railway-speeders. No. 1,134,410; Apr. 6; Gaz. vol. 213; p. 119.
- Payne, Stephen R., *et al.* (See Williams, Hiram C., assignor.)
- Payne, Walter S., University Place, Nebr. Power-operated hammer. No. 1,158,270; Oct. 26; Gaz. vol. 219; p. 1147.
- Payne, William E., Owosso, Mich. Wire-fence clamp. No. 1,130,328; Mar. 2; Gaz. vol. 212; p. 168.
- Payne, William E., and W. S. Eklund, Donner, La. Automatic fire-escape. No. 1,136,436; Apr. 20; Gaz. vol. 213; p. 917.
- Payne, William H., Cicerone, W. Va. Wire-stretcher. No. 1,132,874; Mar. 23; Gaz. vol. 212; p. 1191.
- Payne, William S., Sherlock, Wash. Shipping-box. No. 1,140,765; May 25; Gaz. vol. 214; p. 1176.
- Paynter, George J., Philadelphia, Pa. Tire-mold. No. 1,159,792; Nov. 9; Gaz. vol. 220; p. 518.
- Payton, Richard, Moline, Ill., assignor to Deere & Company, Plow. No. 1,125,165; Jan. 19; Gaz. vol. 210; p. 770.
- Pazos, Manuel, Barcelona, Spain. Explosion-engine. No. 1,147,640; July 20; Gaz. vol. 216; p. 974.
- Pazsiczky, Gedeon von, Riga, Russia. Spinning glass. No. 1,137,814; May 4; Gaz. vol. 214; p. 32.
- Peabody, Charles M., South Orange, N. J., assignor to The Kny-Scheerer Company. Wave-modifier for X-ray systems. No. 1,129,424; Feb. 23; Gaz. vol. 211; p. 1091.
- Peabody, Ernest H., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Apparatus for burning finely-divided fuel. No. 1,126,654; Jan. 26; Gaz. vol. 210; p. 1339.
- Peabody, Ernest H., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Spraying liquids. No. 1,150,959; Aug. 24; Gaz. vol. 217; p. 1099.
- Peabody, Ernest H., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Liquidatomizer. No. 1,150,960; Aug. 24; Gaz. vol. 217; p. 1100.
- Peabody, Ernest H., and W. B. Tardy, New York, N. Y. Emergency-exit. No. 1,147,885; July 27; Gaz. vol. 216; p. 1085.
- Peabody, Ernest H., and D. J. Irish, New York, N. Y., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Apparatus for burning finely-divided fuel. No. 1,129,309; Feb. 23; Gaz. vol. 211; p. 1050.
- Peabody, W. Rodman. (See Hedden, John C., assignor.)
- Peabody, Warren M., Chicago, Ill. Automobile-tire. No. 1,149,782; Aug. 10; Gaz. vol. 217; p. 566.
- Peach, William H. (See Ellison, Frederick C., assignor.)

Alphabetical list of patentees—Continued.

- Peachey, Stanley J., Heaton Chapel, Stockport, England. Accelerating the vulcanization of natural or artificial caoutchouc or caoutchouc-like substances. No. 1,157,177; Oct. 19; Gaz. vol. 219; p. 702.
- Peacock, Edward L., Wallsend-upon-Tyne, England. Safety device for submarines or submersible boats. No. 1,143,131; June 15; Gaz. vol. 215; p. 792.
- Peacock, Edward L., Wallsend-on-the-Tyne, England. Submarine or submersible boat. No. 1,152,754; Sept. 7; Gaz. vol. 218; p. 137.
- Peacock, Frank J. (See McKenney, Swan, and Peacock.)
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Fixing atmospheric nitrogen. No. 1,123,584; Jan. 5; Gaz. vol. 210; p. 132.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Double-nitrid composition of matter. No. 1,123,585; Jan. 5; Gaz. vol. 210; p. 132.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Decomposing natural silicates containing potassium and aluminum. No. 1,129,224; Feb. 23; Gaz. vol. 211; p. 1020.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Separating phosphorus from its phosphate combinations. No. 1,129,504; Feb. 23; Gaz. vol. 211; p. 1119.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Separating potassium and aluminum from their silicate combinations. No. 1,129,505; Feb. 23; Gaz. vol. 211; p. 1119.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Making silicon compounds and by-products. No. 1,129,506; Feb. 23; Gaz. vol. 211; p. 1119.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Producing silicon carbonitrid. No. 1,129,507; Feb. 23; Gaz. vol. 211; p. 1120.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Producing boron carbonitrid. No. 1,129,508; Feb. 23; Gaz. vol. 211; p. 1120.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Producing aluminum carbonitrid. No. 1,129,509; Feb. 23; Gaz. vol. 211; p. 1120.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Producing alkali carbonitrid. No. 1,129,510; Feb. 23; Gaz. vol. 211; p. 1121.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Producing calcium carbonitrid. No. 1,129,511; Feb. 23; Gaz. vol. 211; p. 1121.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Electric furnace. No. 1,129,512; Feb. 23; Gaz. vol. 211; p. 1122.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Making compounds in electric furnaces. No. 1,129,513; Feb. 23; Gaz. vol. 211; p. 1122.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Producing salts of potassium and aluminum and fixed nitrogen compounds. No. 1,129,721; Feb. 23; Gaz. vol. 211; p. 1191.
- Peacock, Samuel, Chicago, Ill., assignor to International Agricultural Corporation, New York, N. Y. Producing oxids of phosphorus and nitrogen compounds. No. 1,129,722; Feb. 23; Gaz. vol. 211; p. 1191.
- Peacock, Samuel, Chicago, Ill., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Producing carbids of silicon and by-products. No. 1,134,081; Mar. 30; Gaz. vol. 212; p. 1653.
- Peacock, Samuel, Chicago, Ill., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Fixing atmospheric nitrogen. No. 1,143,132; June 15; Gaz. vol. 215; p. 793.
- Peacock, Samuel, Chicago, Ill., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Producing phosphorus pentachlorid. No. 1,147,183; July 20; Gaz. vol. 216; p. 812.
- Peacock, Samuel, Chicago, Ill., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Manufacture of double nitrid. No. 1,147,184; July 20; Gaz. vol. 216; p. 812.
- Peacock, Samuel, Chicago, Ill., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Forming double nitrids. No. 1,154,800; Sept. 28; Gaz. vol. 218; p. 953.
- Peacock, Samuel, Chicago, Ill., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Producing carbonitrids. No. 1,137,524; Apr. 27; Gaz. vol. 213; p. 1342.
- Peacock, Samuel, Philadelphia, Pa., assignor to International Agricultural Corporation, New York, N. Y. Extracting potassium from flue-dust. No. 1,124,798; Jan. 12; Gaz. vol. 210; p. 605.
- Peacock, Samuel, Philadelphia, Pa., assignor to International Agricultural Corporation, New York, N. Y. Mixed volatile compounds and producing same. No. 1,129,514; Feb. 23; Gaz. vol. 211; p. 1122.
- Peacock, Samuel, Philadelphia, Pa., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Volatile compounds and producing same. No. 1,134,411; Apr. 6; Gaz. vol. 213; p. 119.
- Peacock, Samuel, Philadelphia, Pa., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Volatile magnesium compounds and producing same. No. 1,134,412; Apr. 6; Gaz. vol. 213; p. 119.
- Peacock, Samuel, Philadelphia, Pa., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Decomposing alkali-metal silicates. No. 1,134,413; Apr. 6; Gaz. vol. 213; p. 120.
- Peacock, Samuel, Philadelphia, Pa., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Making aluminum pernitrids. No. 1,134,414; Apr. 6; Gaz. vol. 213; p. 120.
- Peacock, Samuel, Philadelphia, Pa., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Volatile aluminum compounds and producing same. No. 1,154,801; Sept. 28; Gaz. vol. 218; p. 954.
- Peacock, Samuel, Philadelphia, Pa., assignor, by mesne assignments, to Agricultural Research Corporation, New York, N. Y. Smelting zinc. No. 1,154,802; Sept. 28; Gaz. vol. 218; p. 954.
- Peacott, Ollie U., Waterville, Wash. Can-cutting machine. No. 1,155,267; Sept. 28; Gaz. vol. 218; p. 1111.
- Peak, Clyde J., Barada, Nebr. Antislipping shoe for tires. No. 1,132,730; Mar. 23; Gaz. vol. 212; p. 1137.
- Peake, Albert E., Portland, Oreg., assignor to Modern Heating Co. Fireplace-radiator. No. 1,128,358; Feb. 16; Gaz. vol. 211; p. 683.
- Pearce, Abraham L., assignor to Pearce Arrow Tire and Rubber Manufacturing Company, Philadelphia, Pa. Pneumatic tire. No. 1,159,864; Nov. 9; Gaz. vol. 220; p. 545.
- Pearce Arrow Tire and Rubber Manufacturing Company. (See Pearce, Abraham L., assignor.)
- Pearce, Dutee J., Seattle, Wash. Jewelry-chain. No. 1,138,405; May 4; Gaz. vol. 214; p. 242.
- Pearce, Herbert, and J. E. Billington, Broadheath, England, assignors to Linotype and Machinery Limited, London, England. Typographical composing-machine. No. 1,136,553; Apr. 20; Gaz. vol. 213; p. 957.
- Pearce, Herbert, and J. E. Billington, Broadheath, assignors to Linotype and Machinery Limited, London, England. Typographical composing-machine. No. 1,141,208; June 1; Gaz. vol. 215; p. 42.
- Pearce, Herbert, T. R. G. Parker, and F. W. Wright, Broadheath, assignors to Linotype and Machinery Limited, London, England. Control of the tripping mechanism of a printing-press. No. 1,142,268; June 8; Gaz. vol. 215; p. 452.
- Pearce, Leon D., Phelps, N. Y. Safety-hook. No. 1,144,377; June 29; Gaz. vol. 215; p. 1280.
- Pearce, Richard H. (See Pearce, Samuel W. and R. H.)
- Pearce, Samuel W. and R. H., Tushka, Okla. Time-controlled device. No. 1,129,596; Feb. 23; Gaz. vol. 211; p. 1152.
- Pearce, Walter H., Summit, N. J. Valve-grinding tool. No. 1,131,789; Mar. 16; Gaz. vol. 212; p. 746.
- Pearce, William A., Virginia, Minn. Electric signal switch. No. 1,146,204; July 13; Gaz. vol. 216; p. 451.
- Pearce, William H., Philadelphia, Pa. Gas or vapor stove. No. 1,144,722; June 29; Gaz. vol. 215; p. 1398.
- Pearl, Joseph W., Portland, Oreg. Folding square. No. 1,161,961; Nov. 30; Gaz. vol. 220; p. 1429.
- Pearl, Max, New York, N. Y. Vessel-cover-locking device. No. 1,123,918; Jan. 5; Gaz. vol. 210; p. 246.
- Pearll, Julian A., Detroit, Mich. Machine for making weather-strips. No. 1,150,145; Aug. 17; Gaz. vol. 217; p. 758.
- Pearll, Julian A., Detroit, Mich. Metal-bending machine. No. 1,163,847; Dec. 14; Gaz. vol. 221; p. 436.
- Pearman, Henry M., Oxford, England. Apparatus for washing crockery. No. 1,143,858; June 22; Gaz. vol. 215; p. 1069.
- Pearne, Frank D., assignor of one-half to J. E. Martine, Chicago, Ill. Printing-telegraph sending apparatus. No. 1,137,894; May 4; Gaz. vol. 214; p. 59.
- Pearne, Frank D., assignor of one-half to J. E. Martine, Chicago, Ill. Printing-telegraph apparatus. No. 1,146,274; July 13; Gaz. vol. 216; p. 474.
- Pearsall, Albert W., and F. R. Taisey, Lowell, Mass., assignors to The Lamson Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,135,610; Apr. 13; Gaz. vol. 213; p. 584.
- Pearsall, Earl H., New Castle, Pa. Changeable-speed gearing. No. 1,161,962; Nov. 30; Gaz. vol. 220; p. 1429.
- Pearse, Norman P., London, England. Cotton-gin. No. 1,157,720; Oct. 26; Gaz. vol. 219; p. 955.
- Pearson, A. F. (See Pearson, Robert D., assignor.)
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company of New Jersey. Tractor-binder hitch. No. 1,159,987; Nov. 9; Gaz. vol. 220; p. 588.

Alphabetical list of patentees—Continued.

- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company of New Jersey. Tandem draft connection for harvesters. No. 1,159,988; Nov. 9; Gaz. vol. 220; p. 588.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company of New Jersey. Clutch mechanism. No. 1,163,170; Dec. 7; Gaz. vol. 221; p. 152.
- Pearson, Charles O., New York, N. Y. Controller for internal-combustion engines. No. 1,156,430; Oct. 12; Gaz. vol. 219; p. 410.
- Pearson, Charles O., New York, N. Y. Traction-elevator. No. 1,164,115; Dec. 14; Gaz. vol. 221; p. 529.
- Pearson, Edward J., St. Louis, Mo. Cattle-guard. No. 1,149,854; Aug. 10; Gaz. vol. 217; p. 593.
- Pearson, Frank L., Boyne Falls, Mich. Sand-creeper for automobiles. No. 1,130,838; Mar. 9; Gaz. vol. 212; p. 381.
- Pearson, Henry, Springfield, Mass., and J. Renfrew, Habana, Cuba. Adjustable hinge. No. 1,144,057; June 22; Gaz. vol. 215; p. 1139.
- Pearson, James H., St. Louis, Mo., assignor of one-third to W. W. Carter and one-third to H. L. Doner, Bloomfield, Ind. Phonograph attachment for clocks. No. 1,131,001; Mar. 9; Gaz. vol. 212; p. 437.
- Pearson, James H., St. Louis, Mo., assignor of one-third to G. A. Haines, Bloomfield, and one-third to O. Calvert, Shelburn, Ind. Door-check. No. 1,131,264; Mar. 9; Gaz. vol. 212; p. 528.
- Pearson, James H., Indianapolis, Ind., assignor of one-third to W. O. Jackson and one-third to J. U. Baughman. Tire-inflater. No. 1,165,282; Dec. 21; Gaz. vol. 221; p. 976.
- Pearson, James R., assignor to The Acme Machine Tool Company, Cincinnati, Ohio. Gearing. No. 1,148,795; Aug. 3; Gaz. vol. 217; p. 112.
- Pearson, John, Chicago, Ill. Car construction. No. 1,145,262; July 6; Gaz. vol. 216; p. 100.
- Pearson, John, Somerset, Wis., assignor of one-half to J. F. Williamson, Minneapolis, Minn. Water-wheel governor. No. 1,129,830; Feb. 23; Gaz. vol. 211; p. 1228.
- Pearson, Miles E., assignor, by mesne assignments, to Universal High-Power Telephone Company, Seattle, Wash. Sound-transmitting apparatus. No. 1,134,059; Mar. 30; Gaz. vol. 212; p. 1646.
- Pearson, Newton W., Sylvania, Ga. Axle attachment for automobiles. No. 1,144,562; June 29; Gaz. vol. 215; p. 1342.
- Pearson, Otto, Mount Jewett, Pa. Means for connecting the front ends of sled-runners. No. 1,127,673; Feb. 9; Gaz. vol. 211; p. 390.
- Pearson, Otto, Mount Jewett, Pa. Means for connecting the front ends of sled-runners. No. 1,144,563; June 29; Gaz. vol. 215; p. 1343.
- Pearson, Robert D., Allentown, Pa., assignor to A. F. Pearson, Palo Alto, Cal. Cutting-machine. No. 1,123,919; Jan. 5; Gaz. vol. 210; p. 246.
- Pearson, Victor J. (See Johnson and Pearson.)
- Pearson, Walton G. (See Armantage and Roehrig, assignors.)
- Pearsons-Arter Machine Company, The. (See White, Alphonzo, assignor.)
- Pease, Charles, Beverly, Mass., assignor to United-Xpedita Finishing Company, Berwick, Me. Machine for wax-treating parts of boots and shoes. No. 1,141,263; June 1; Gaz. vol. 215; p. 61.
- Pease, Charles F., assignor to The C. F. Pease Company, Chicago, Ill. Coating-machine. No. 1,125,166; Jan. 19; Gaz. vol. 210; p. 771.
- Pease, Charles F., and C. A. Green, assignors to The C. F. Pease Company, Chicago, Ill. Sensitized-paper-treating apparatus. No. 1,125,878; Jan. 19; Gaz. vol. 210; p. 1023.
- Pease, Fred J. (See Snyder and Pease.)
- Pease, Lewis E., Tufts College, Mass. Fountain-syringe. No. 1,123,361; Jan. 5; Gaz. vol. 210; p. 57.
- Pease, Roger S., assignor to The Pittsburgh Plate Glass Company, Pittsburgh, Pa. Drawing glass. No. 1,136,362; Apr. 20; Gaz. vol. 213; p. 890.
- Pease, Roger S., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing. No. 1,152,833; Sept. 7; Gaz. vol. 218; p. 167.
- Pease, Roger S., assignor to The Pittsburgh Plate Glass Company, Pittsburgh, Pa. Drawing-ring. No. 1,155,507; Oct. 5; Gaz. vol. 219; p. 65.
- Pease, Roger S., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing apparatus. No. 1,161,246; Nov. 23; Gaz. vol. 220; p. 1132.
- Peavey, William S., assignor to Standard Oil Company, Chicago, Ill. Lubricating engines. No. 1,156,431; Oct. 12; Gaz. vol. 219; p. 410.
- Peavey, William S., assignor to Standard Oil Company, Chicago, Ill. Means for lubricating steam-engines. No. 1,156,432; Oct. 12; Gaz. vol. 219; p. 410.
- Pebley, Robert L., La Fayette, Oreg. Gooseberry-cleaner. No. 1,161,963; Nov. 30; Gaz. vol. 220; p. 1429.
- Pechkranz, Rodolphe. (See Guerzoni and Pechkranz.)
- Pechstein, Max, assignor to Firm of L. Blumer, Zwickau, Germany. Flexible metal pipe. No. 1,145,434; July 6; Gaz. vol. 216; p. 160.
- Pecinovsky, Joseph W., and E. N. Brown, Ouray, Colo. Washing-machine. No. 1,163,686; Dec. 14; Gaz. vol. 221; p. 377.
- Peck Bros. & Co., The. (See Newton, William G., assignor.)
- Peck, Cald H., Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel-turning device for percussive fluid-operated drills. No. 1,160,648; Nov. 16; Gaz. vol. 220; p. 874.
- Peck, Charles F., Philadelphia, Pa. Horse-ride amusement device. No. 1,165,898; Dec. 28; Gaz. vol. 221; p. 1229.
- Peck, Charles L., Coopersville, Mich. Harrow. No. 1,166,249; Dec. 28; Gaz. vol. 221; p. 1358.
- Peck, Duncan W., Syracuse, N. Y. Spark-plug. No. 1,166,385; Dec. 28; Gaz. vol. 221; p. 1407.
- Peck, Edmund E., Grand View on Hudson, N. Y. Apparatus for the manufacture of seats and backs for chairs and like furniture. No. 1,140,846; May 25; Gaz. vol. 214; p. 1205.
- Peck, Hubert E. (See Hoernel, Edward, assignor.)
- Peck, Russell H., Palmerton, Pa. Batter-board. No. 1,130,926; Mar. 9; Gaz. vol. 212; p. 412.
- Peck, Samuel. (See Wakfer, William H. S., assignor.)
- Peck, William, Edinburgh, Scotland. Astronomical instrument for indicating positions of celestial objects. No. 1,130,625; Mar. 2; Gaz. vol. 212; p. 274.
- Peck, William E. (See Smith and Snook, assignors.)
- Peck-Williamson Company, The. (See Holub, Charles J., assignor.)
- Peckham, Frank J., Troy, Ohio. Ice-can. No. 1,161,409; Nov. 23; Gaz. vol. 220; p. 1191.
- Peckham, George C., assignor to National Car Seal Company, Los Angeles, Cal. Car-seal. No. 1,163,554; Dec. 7; Gaz. vol. 221; p. 286.
- Pecorella, Albert, Buffalo, N. Y. Safety apparatus for railway systems. No. 1,128,498; Feb. 16; Gaz. vol. 211; p. 731.
- Pecz, Kornel, and K. Rejtö, Budapest, Austria-Hungary. Feed-water purifier. No. 1,147,044; July 20; Gaz. vol. 216; p. 765.
- Ped-O-Graph Company. (See Schutz, Joseph M., assignor.)
- Peddrick, Charles H., Jr. (See Davis and Peddrick.)
- Pederquist, Ernest, Newark, N. J., assignor to Meisselbach-Catucci Manufacturing Company. Feed-roller mechanism for pinion-rod cutting. (Reissue.) No. 13,971; Aug. 24; Gaz. vol. 217; p. 1311.
- Pedersen, Carl, Fort Wayne, Ind. Wrench. No. 1,154,544; Sept. 21; Gaz. vol. 218; p. 835.
- Pedersen, Jens P., Provo, Utah. Hub-fastener. No. 1,134,003; Mar. 30; Gaz. vol. 212; p. 1626.
- Pedersen, Jens P., Provo, Utah. Headlight-operating mechanism. No. 1,139,068; May 11; Gaz. vol. 214; p. 513.
- Pedersen, Johannes T., Flushing, N. Y. Ignition-timer for gas-engines. No. 1,127,805; Feb. 9; Gaz. vol. 211; p. 442.
- Pedersen, Johannes T., New York, N. Y. Pipe-coupling. No. 1,163,364; Dec. 7; Gaz. vol. 221; p. 221.
- Pedersen, John D., Jackson, Wyo. Cartridge. No. 1,123,362; Jan. 5; Gaz. vol. 210; p. 57.
- Pedersen, Mathis, Melrose Park, Ill. Permutation-lock. No. 1,151,709; Aug. 31; Gaz. vol. 217; p. 1399.
- Pedersen, Niels, Brooklyn, N. Y. Mine-cable cutter. No. 1,148,714; Aug. 3; Gaz. vol. 217; p. 83.
- Pedersen, Olaves T., North Bend, Oreg. Drive and reverse gear. No. 1,165,019; Dec. 21; Gaz. vol. 221; p. 884.
- Pedersen, Peder. (See Johnson and Pedersen.)
- Pedersen, Thomas P., assignor of one-half to C. F. Bornt, Hoernel, N. Y. Perambulator. No. 1,149,933; Aug. 10; Gaz. vol. 217; p. 640.
- Pederson, Hans, Milton, N. D. End-gate. No. 1,150,961; Aug. 24; Gaz. vol. 217; p. 1100.
- Pederson, Louis F., South Stillwater, Minn. Hand-clamp. No. 1,150,962; Aug. 24; Gaz. vol. 217; p. 1100.
- Pederson, Peter T., Vienna, S. D. Toy pistol. No. 1,159,706; Nov. 9; Gaz. vol. 220; p. 486.
- Pederson, Peter, and G. T. Gilkerson, Workman, Cal. Beet pulling and topping machine. No. 1,140,847; May 25; Gaz. vol. 214; p. 1205.
- Pederson, Petter C. N., Superior, Wis. Floor-covering. No. 1,128,182; Feb. 9; Gaz. vol. 211; p. 573.
- Pederson, Petter C. N., Superior, Wis. Floor-covering. No. 1,158,835; Nov. 2; Gaz. vol. 220; p. 150.
- Pedretti, Henry, East Rutherford, assignor to Becton, Dickinson & Co., Rutherford, N. J. Aseptic instrument-case. No. 1,149,941; Aug. 10; Gaz. vol. 217; p. 624.
- Peel, Charles F., New York, N. Y. Portable track trip device. No. 1,153,568; Sept. 14; Gaz. vol. 218; p. 466.
- Peebles, John M., Shawneetown, Ill. Hame. No. 1,158,836; Nov. 2; Gaz. vol. 220; p. 151.
- Peerless Check Protecting Company. (See Sampson, Charles H., assignors.)
- Peerless Light Company. (See Herskovitz, Max, assignor.)
- Peerless Silo Supply Co. (See Rasmussen, Andrew, assignor.)
- Peers, Kester J., Boston, Mass. Cutter for needles. No. 1,161,153; Nov. 23; Gaz. vol. 220; p. 1097.

Alphabetical list of patentees—Continued.

- Peers, Kester J., Boston, and A. L. Currier, Newton, Mass.; said Currier assignor to said Peers. Cutter for fiber needles. No. 1,161,154; Nov. 23; Gaz. vol. 220; p. 1097.
- Peerstone, Earl D., Chicago, Ill. Valve for radiators. No. 1,134,415; Apr. 6; Gaz. vol. 213; p. 120.
- Peery, Thomas M., Pikeville, Ky. Brake apparatus. No. 1,162,805; Dec. 7; Gaz. vol. 221; p. 26.
- Peet, O. M. (See Doucet, Theodore, assignor.)
- Peppers, Andrew R., Aurora, Ill. Air-brake-hose protector. No. 1,139,797; May 18; Gaz. vol. 214; p. 804.
- Peppers, Andrew R., Aurora, assignor of one-half to F. C. Schultz, Congress Park, Ill. Brake-beam. No. 1,161,329; Nov. 23; Gaz. vol. 220; p. 1161.
- Pegg, William G., assignor of one-half to A. Turner & Co. Limited, Leicester, England. Braiding-machine. No. 1,165,361; Dec. 21; Gaz. vol. 221; p. 1003.
- Pehl, Walter E., Austin, Tex. Cotton-picker. No. 1,160,446; Nov. 16; Gaz. vol. 220; p. 800.
- Peirce, Charles L., Jr., Pittsburgh, Pa. Insulator-supporting fixture. No. 1,149,282; Aug. 10; Gaz. vol. 217; p. 386.
- Peirce, Charles L., Jr., Pittsburgh, Pa. Secondary rack. No. 1,152,211; Aug. 31; Gaz. vol. 217; p. 1574.
- Peirce, Charles L., Jr., Pittsburgh, Pa. Insulator-support. No. 1,158,149; Oct. 26; Gaz. vol. 219; p. 1105.
- Peirce, Charles L., Jr., assignor of one-half to Hubbard & Co., Pittsburgh, Pa. Insulator-supporting fixture. No. 1,157,036; Oct. 19; Gaz. vol. 219; p. 653.
- Peirce, Charles L., Jr., assignor of one-half to Hubbard & Co., Pittsburgh, Pa. Insulator-supporting structure. No. 1,157,037; Oct. 19; Gaz. vol. 219; p. 653.
- Peirce, Clifford G. (See Rast and Peirce.)
- Peirce, Paul, assignor to R. B. Bailey Company, Los Angeles, Cal. Tire-cover. No. 1,131,077; Mar. 9; Gaz. vol. 212; p. 463.
- Peirce, Ralph S., Hinsdale, Ill. Anchoring threaded elements. No. 1,147,045; July 20; Gaz. vol. 216; p. 765.
- Peirce, Robert T., Newport News, Va. Pedal control for automobiles. No. 1,137,166; Apr. 27; Gaz. vol. 213; p. 1213.
- Peirce, William E., San Francisco, Cal. Transmitter or reproducer. No. 1,144,236; June 22; Gaz. vol. 215; p. 1204.
- Peisch, Benjamin F. (See Donaldson, Orville M., assignor.)
- Peiseler, Kuno, Preussen, Germany, assignor to Thomson Electric Welding Company, Lynn, Mass. Electrically-welded tubing and making the same. No. 1,154,933; Sept. 28; Gaz. vol. 218; p. 998.
- Peter, Frederick, assignor to The Gas Machinery Company, Cleveland, Ohio. Coke-oven. No. 1,146,442; July 13; Gaz. vol. 216; p. 535.
- Pelter, Frederick, assignor to The Gas Machinery Company, Cleveland, Ohio. Gas and air mixer. No. 1,160,196; Nov. 16; Gaz. vol. 220; p. 714.
- Pejta, Wiktor, B. Grymuisli, and A. Barszcz, Filbert, W. Va. Horseshoe. No. 1,124,647; Jan. 12; Gaz. vol. 210; p. 552.
- Pellant, Adolph N., assignor to Montgomery-Washburn Company, Saugerties, N. Y. Apron. No. 1,165,538; Dec. 28; Gaz. vol. 221; p. 1103.
- Pellegrini, Phillip. (See Malno and Pellegrini.)
- Pellegrino, Samuel, Monessen, Pa. Padlock. No. 1,146,443; July 13; Gaz. vol. 216; p. 533.
- Pellerin, Augustin, Neuilly-sur-Seine, France. Purified hydrated cellulose and manufacture. No. 1,128,624; Feb. 16; Gaz. vol. 211; p. 775.
- Pelletier, Charles O., Oakland, Cal. Concealable bed. No. 1,123,363; Jan. 5; Gaz. vol. 210; p. 57.
- Pelletier, Dominique. (See Clark, Charles H., assignor.)
- Pelletier, Joseph, Montreal, Quebec, Canada. Miter-box. No. 1,134,286; Apr. 6; Gaz. vol. 213; p. 74.
- Pellow, John T. A., Laurium, Mich. Pail. No. 1,131,731; Mar. 16; Gaz. vol. 212; p. 723.
- Pellow, William G., Kansas City, Mo. Saw-clamping device. No. 1,128,897; Feb. 16; Gaz. vol. 211; p. 871.
- Pells, Edna, Grand Island, Nebr. Measuring and filling apparatus. No. 1,157,896; Oct. 26; Gaz. vol. 219; p. 1017.
- Pells, Frank E., and J. Christensen, Seattle, Wash. Stamp-canceling device. No. 1,127,806; Feb. 9; Gaz. vol. 211; p. 442.
- Peloquin, Louis, Southbridge, Mass. Winding-drum. No. 1,157,897; Oct. 26; Gaz. vol. 219; p. 1018.
- Pelouze Manufacturing Co. (See Richards, Fred T., assignor.)
- Pelouze Manufacturing Company. (See Schwartz, Edward, assignor.)
- Pels, Henry, Berlin, Germany. Apparatus for cutting sectional iron. No. 1,134,903; Apr. 6; Gaz. vol. 213; p. 293.
- Peltier, Mitchell, Seattle, Wash. Snow-cutter. No. 1,126,561; Jan. 26; Gaz. vol. 210; p. 1305.
- Pelton, Clyde S. (See Utz and Pelton.)
- Pelton, Clyde S., Cleveland, Ohio. Clevis-link connection. No. 1,142,979; June 15; Gaz. vol. 215; p. 740.
- Pelton, Clyde S., Akron, Ohio. Motor-car heater. No. 1,148,617; Aug. 3; Gaz. vol. 217; p. 48.
- Pelton, Clyde S., assignor to The Maranville Base and Filter Company, Cleveland, Ohio. Filter. No. 1,166,000; Dec. 28; Gaz. vol. 221; p. 1265.
- Pelton, George M., assignor to The Filer & Stowell Company, Milwaukee, Wis. Sawmill set-works. No. 1,129,225; Feb. 23; Gaz. vol. 211; p. 1020.
- Pelton, George M., assignor to The Filer & Stowell Company, Milwaukee, Wis. Guide for log-turners. No. 1,133,315; Mar. 30; Gaz. vol. 212; p. 1384.
- Pelton Water Wheel Co., The. (See Buehle, Erich, assignor.)
- Pelton Water Wheel Company, The. (See Doble, William A., assignor.)
- Pelton Water Wheel Company, The. (See Jacobsen, Oystein, assignor.)
- Pelz, Adolf F., Cleveland, Ohio, assignor of one-third to C. W. Brown. Rim for vehicle-wheels. No. 1,129,899; Mar. 2; Gaz. vol. 212; p. 23.
- Pelzer, John, Orange, N. J. Device for opening and closing transoms or windows. No. 1,156,020; Oct. 5; Gaz. vol. 219; p. 241.
- Pember, E. (See Nance, William H., assignor.)
- Pemberton, Elmer, Seattle, Wash. Furnace. No. 1,132,875; Mar. 23; Gaz. vol. 212; p. 1191.
- Pembroke, Charles J., Rochester, N. Y. Automobile. No. 1,143,777; June 22; Gaz. vol. 215; p. 1041.
- Pembroke, Charles J., Rochester, N. Y. Distributing-valve starting mechanism for explosive-engines. No. 1,143,778; June 22; Gaz. vol. 215; p. 1041.
- Pembroke, Charles J., Rochester, N. Y. Carbureter. No. 1,143,779; June 22; Gaz. vol. 215; p. 1041.
- Pembroke, Earl R. (See Margetts and Pembroke.)
- Pemberthy Injector Co. (See Valboe, Peter P., assignor.)
- Pence, Beryl, Moormans River, Va. Rolling-hoop. No. 1,150,880; Aug. 24; Gaz. vol. 217; p. 1072.
- Pendergast, Frederick W., Cambridge, Mass. Broom. No. 1,139,716; May 18; Gaz. vol. 214; p. 776.
- Penedo, Daniel A., Bisbee, Ariz. Digging-machine. No. 1,154,545; Sept. 21; Gaz. vol. 218; p. 836.
- Penfield, Raymond C. (See Israel, William P., assignor.)
- Penfield, Raymond C., New York, N. Y. Automatic replacing mechanism. No. 1,129,006; Feb. 16; Gaz. vol. 211; p. 909.
- Penfield, Raymond C., New York, N. Y. Brick-lifting apparatus. No. 1,144,779; June 29; Gaz. vol. 215; p. 1418.
- Penfield, Raymond C., New York, N. Y. Apparatus for handling bricks in stacked units. No. 1,150,061; Aug. 17; Gaz. vol. 217; p. 727.
- Penfield, Raymond C., New York, N. Y. Brick-sanding machine. No. 1,161,516; Nov. 23; Gaz. vol. 220; p. 1228.
- Penhallegon, John J., Mineral Point, Wis. Radiator. No. 1,147,339; July 20; Gaz. vol. 216; p. 866.
- Peniakoff, Dmitry A., Brussels, Belgium. Producing nitrogen compounds of aluminium and alkali or alkaline-earth metals. No. 1,159,989; Nov. 9; Gaz. vol. 220; p. 588.
- Penkala, Ladislav, Bois-Colombes, France. Machine or press for molding plastic materials. No. 1,163,448; Dec. 7; Gaz. vol. 221; p. 250.
- Penkala, Ladislav, Bois-Colombes, France. Machine for molding plastic materials. No. 1,163,449; Dec. 7; Gaz. vol. 221; p. 250.
- Penn, Charles F., Spokane, Wash. Collapsible camp-stove. No. 1,166,151; Dec. 28; Gaz. vol. 221; p. 1321.
- Penn, Daniel K. (See Hopper, James F., assignor.)
- Penn, George O., Adelaide, South Australia, Australia. Preserving fruit peels and rinds by impregnation with sugar. No. 1,145,333; July 6; Gaz. vol. 216; p. 123.
- Penn Printing House *et al.* (See Clinton, Michael, assignor.)
- Penn Rivet Manufacturing Company. (See Coombs, James W., assignor.)
- Penn, William S., Atlanta, Ga. Umbrella-frame. No. 1,136,887; Apr. 20; Gaz. vol. 213; p. 1076.
- Penna, Samuel T., Avon-by-the-Sea, N. J. Bottle-filling apparatus. No. 1,154,269; Sept. 21; Gaz. vol. 218; p. 742.
- Pennati, Ernesto, and Michelangelo Cattori, Castellammare di Stabia, Italy. Brake-actuating mechanism for vehicles and trains. No. 1,136,712; Apr. 20; Gaz. vol. 213; p. 1015.
- Pennell, Dale, *et al.* (See Eckenwiler, George M., assignor.)
- Pennell, Reginald H. L., Cairo, Egypt, and J. Ortenbøving, London, England. Means for collecting and discharging solid matter when pumping liquids containing same. No. 1,161,517; Nov. 23; Gaz. vol. 220; p. 1228.
- Pennell, Vincent, *et al.* (See Eckenwiler, George M., assignor.)
- Pennewill, James W., and M. R. Buchanan, Silver City, N. Mex. Electrically-operated time-switch. No. 1,138,406; May 4; Gaz. vol. 214; p. 242.
- Penniman, Ira F., Needham, Mass. Pipe-hanger. No. 1,124,648; Jan. 12; Gaz. vol. 210; p. 552.
- Pennsylvania Appliance Company. (See Liversidge, Horace P., assignor.)
- Pennsylvania Crusher Company. (See Hiller, Joseph L., assignor.)
- Pennsylvania Globe Gas Light Company. (See Shaw, Arthur E., assignor.)
- Pennsylvania Steel Company. (See Cuenot and Fischer, assignors.)
- Pennsylvania Steel Company. (See Dutton and McKechnie, assignors.)

- Pennsylvania Wire Glass Manufacturing Company. (See Cox and Shuman, assignors.)
- Pennsylvania Wire Glass Company. (See Shuman, Arno, assignor.)
- Penny, Eugene G., Durham, N. C. Dining-table. No. 1,150,701; Aug. 17; Gaz. vol. 217; p. 952.
- Penny, Henry P. (See Smith, Wayne, assignor.)
- Penny, Lula, Wilson, N. C. Dress-form. No. 1,147,427; July 20; Gaz. vol. 216; p. 899.
- Penquite, Archie L., Marshalltown, Iowa. Spark-plug attachment. No. 1,162,804; Dec. 7; Gaz. vol. 221; p. 25.
- Penrod, Charles E., Concord township, Miami county, Ohio. Sack-holder for grain-chutes. No. 1,154,722; Sept. 28; Gaz. vol. 218; p. 926.
- Penrod, George H., Eveleth, Minn. Combined faucet and fountain. No. 1,150,963; Aug. 24; Gaz. vol. 217; p. 1100.
- Pentecost, Arthur, Orange, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Split-machine. No. 1,126,851; Feb. 2; Gaz. vol. 211; p. 67.
- Penzer, Louis W., assignor of one-half to C. G. Holland, Richmond, Va. Rotary combustion-engine. No. 1,158,271; Oct. 26; Gaz. vol. 219; p. 1148.
- Peoples, Elmer E., and R. E. Lee, New Comerstown, Ohio. Adjustable culvert-form. No. 1,144,862; June 29; Gaz. vol. 215; p. 1446.
- Peoples, James E., Alva, Okla. Educational appliance. No. 1,141,409; June 1; Gaz. vol. 215; p. 116.
- Peoples, Joseph, Sr. (See Clark and Peoples.)
- Peoples, Joseph, Sr., and W. T. Clark, assignors to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Chopper. No. 1,160,955; Nov. 16; Gaz. vol. 220; p. 983.
- Peoria Drill & Seeder Company. (See Miller, Ralph M., assignor.)
- Peot, Nicholas A., Jr., Green Bay, Wis. Foot-rest for radiators. No. 1,143,859; June 22; Gaz. vol. 215; p. 1069.
- Pepper, De Watt, New Milford, Conn. Adjustable chair. No. 1,125,167; Jan. 19; Gaz. vol. 210; p. 771.
- Pepper, William B., Montrose, Colo. Hydraulic transmission. No. 1,136,363; Apr. 20; Gaz. vol. 213; p. 890.
- Peppers, Jerry C., Beaumont, Tex. Capping-machine. No. 1,152,212; Aug. 31; Gaz. vol. 217; p. 1574.
- Pepple, John W., San Antonio, Tex. Window-shade. No. 1,156,807; Oct. 12; Gaz. vol. 219; p. 539.
- Perazio, Valentine, Philadelphia, Pa. Rotary engine. No. 1,130,839; Mar. 9; Gaz. vol. 212; p. 381.
- Percival, Frank N., and W. Patterson, Chicago, Ill. Kerosene-gas generator. No. 1,131,157; Mar. 9; Gaz. vol. 212; p. 489.
- Percival, Frank N., and W. Patterson, Chicago, Ill. Kerosene-carbureter. No. 1,150,619; Aug. 17; Gaz. vol. 217; p. 924.
- Percy, Herbert J. (See Bartholomew and Percy.)
- Percy, Herbert J., *et al.* (See Cannon, Frederick W., assignor.)
- Percy, Herbert J., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 1,141,911; June 1; Gaz. vol. 215; p. 290.
- Percy, Herbert J., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Manufacture of welt-shoes. No. 1,141,912; June 1; Gaz. vol. 215; p. 290.
- Pereira, Alberto, Milan, Italy, assignor of one-half to B. Segal, Cincinnati, Ohio. Sweeper. No. 1,129,118; Feb. 23; Gaz. vol. 211; p. 984.
- Pérez, Joseph H., Nevada, Mo. Apparatus for turning music leaves. No. 1,132,682; Mar. 23; Gaz. vol. 212; p. 1119.
- Perez, Miguel, Chicago, Ill. Automobile-tire. No. 1,152,902; Sept. 7; Gaz. vol. 218; p. 192.
- Perez, Pedro V., Key West, Fla. Cigar-cutter. No. 1,149,942; Aug. 10; Gaz. vol. 217; p. 624.
- Perez, Waldo F., assignor to The Standard Fender Company, Inc., Chicago, Ill. Automobile-fender. No. 1,157,251; Oct. 19; Gaz. vol. 219; p. 730.
- Perfect Bottle Cap Company, The. (See Cassady, James B., assignor.)
- Perfect Sliding Door Company, The. (See Laughlin and Schuyler, assignors.)
- Perfect Vacuum Canning Company. (See Norton, Edwin, assignor.)
- Perfect Window Regulator Company. (See Ternstedt, Alvar K., assignor.)
- Perfection Dyeing Machine Company. (See Payne, Jesse M., assignor.)
- Perfection Egg Company. (See Thornburgh, Harry E., assignor.)
- Perfection Mortise Machine Company, The. (See Campbell, George W., assignor.)
- Perfection Mortise Machine Company, The. (See Norris, George E., assignor.)
- Perfection Razor Strop Company. (See Browning, George, assignor.)
- Perfection Rug Retainer Company. (See Forsyth, Benjamin F., assignor.)
- Perfection Spring Company, The. (See McIntyre, Michael M., assignor.)
- Perfection Spring Company, The. (See Utz, John G., assignor.)
- Perfection Spring Wheel Company. (See Stein, Georg V., assignor.)
- Perfection Valve Company. (See Williams, John B., assignor.) (Reissue.)
- Perfectograph Manufacturing Company, The. (See Wooden, Earle M., assignor.)
- Perfield, Thomas H., Omaha, Nebr. Filing-case for disk records. No. 1,130,016; Mar. 2; Gaz. vol. 212; p. 62.
- Perich, John, Logan, W. Va. Combined door latch and lock. No. 1,156,548; Oct. 12; Gaz. vol. 219; p. 451.
- Perillat, Marie, assignor to Ye Lady's Outfitterie, New York, N. Y. Bust-reducer brassière. No. 1,156,808; Oct. 12; Gaz. vol. 219; p. 540.
- Perine, David M., New York, N. Y. Safety-razor. No. 1,127,505; Feb. 9; Gaz. vol. 211; p. 336.
- Perine, David M., New York, N. Y. Preservation of mineral water. No. 1,160,317; Nov. 16; Gaz. vol. 220; p. 755.
- Periolat, Clarence P., Chicago, Ill. Vise. No. 1,125,911; Jan. 19; Gaz. vol. 210; p. 1036.
- Peris, Nicholas U., Landisville, Pa. Combined steam, gas, and hot-water heater. No. 1,153,130; Sept. 7; Gaz. vol. 218; p. 270.
- Perkin, William H., C. Weizmann, and H. Davies, Manchester, England. Manufacture of halogen derivatives of organic compounds. No. 1,144,237; June 22; Gaz. vol. 215; p. 1204.
- Perkins, Allan A., Sanford, Me. Picker-head check. No. 1,137,525; Apr. 27; Gaz. vol. 213; p. 1342.
- Perkins, Alvah L., assignor to The William Carter Co., Needham Heights, Mass. Union garment. No. 1,145,611; July 6; Gaz. vol. 216; p. 221.
- Perkins, Catherine S., Rockville Center, N. Y. Composition of matter for use as a starch. No. 1,149,216; Aug. 10; Gaz. vol. 217; p. 362.
- Perkins, Charles, Bridgewater, Mass. Pneumatic turbine-grinder. No. 1,143,064; June 15; Gaz. vol. 215; p. 770.
- Perkins, Charles, Bridgewater, assignor of one-half to G. O. Jenkins, Whitman, Mass. Leather-board machine. No. 1,127,807; Feb. 9; Gaz. vol. 211; p. 442.
- Perkins, Charles E., Grand Rapids, Mich. Universal joint. No. 1,148,532; Aug. 3; Gaz. vol. 217; p. 17.
- Perkins, Charles H., Norwich, Conn. Adjustable temple-tip. No. 1,138,012; May 4; Gaz. vol. 214; p. 101.
- Perkins, Chester A., South Bend, Ind. Egg-case. No. 1,130,840; Mar. 9; Gaz. vol. 212; p. 382.
- Perkins Electric Switch Manufacturing Company. (See Anderson, Carl E., assignor.)
- Perkins Electric Switch Manufacturing Company, The. (See Badeau, Harry U., assignor.)
- Perkins Electric Switch Manufacturing Company, The. (See Bates, Clarence A., assignor.)
- Perkins Electric Switch Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
- Perkins Electric Switch Manufacturing Company, The. (See Thomas, George B., assignor.)
- Perkins Electric Switch Manufacturing Company, The. (See Young, William R., assignor.)
- Perkins, Elmer E., Chicago, Ill. Drying-room. No. 1,164,391; Dec. 14; Gaz. vol. 221; p. 625.
- Perkins, Frank C., assignor of one-half to L. Stockton, Buffalo, N. Y. Hydro-electric storing and distributing system. No. 1,145,508; July 6; Gaz. vol. 216; p. 186.
- Perkins, Frank E., High Point, N. C. Dental tool. No. 1,125,168; Jan. 19; Gaz. vol. 210; p. 772.
- Perkins, Fred, assignor to G. W. Perkins, Warren, Mass. Device for detachment of rims from tires. No. 1,140,315; May 18; Gaz. vol. 214; p. 984.
- Perkins, Georgia W. (See Perkins, Fred, assignor.)
- Perkins Glue Company. (See Haberle and Stryker, assignors.)
- Perkins, Harry F., Schenectady, N. Y., assignor to General Electric Company. System of distribution. No. 1,160,750; Nov. 16; Gaz. vol. 220; p. 911.
- Perkins, Harry J., Grand Rapids, Mich. Reversible rotary driving device. No. 1,131,861; Mar. 16; Gaz. vol. 212; p. 773.
- Perkins, Harry J., Grand Rapids, Mich. Marine propulsion mechanism. No. 1,131,862; Mar. 16; Gaz. vol. 212; p. 773.
- Perkins, John W., Everett, Mass. Recoll-pad. No. 1,128,037; Feb. 9; Gaz. vol. 211; p. 522.
- Perkins, Jonathan, Jr., San Diego, Cal. Gravity-actuated pipe-laying apparatus. No. 1,139,440; May 11; Gaz. vol. 214; p. 642.
- Perkins, Joseph G., Cincinnati, Ohio. Bath shower attachment. No. 1,165,705; Dec. 28; Gaz. vol. 221; p. 1164.
- Perkins, Julius A., Omaha, Nebr., assignor to H. E. Dickson, trustee, New York, N. Y. Axle thrust-bearing. No. 1,124,944; Jan. 12; Gaz. vol. 210; p. 656.
- Perkins, Nathan W., Jr., East Orange, N. J. Electric drive for calculating-machines. No. 1,136,165; Apr. 20; Gaz. vol. 213; p. 819.
- Perkins, Percival O., Salt Lake City, Utah. Combustion of fuel. No. 1,146,732; July 13; Gaz. vol. 216; p. 634.
- Perkins, Richard K., Howard City, Mich. Mail-bag catcher and deliverer. No. 1,151,710; Aug. 31; Gaz. vol. 217; p. 1400.
- Perkins, Thomas, Lafourche Crossing, La. Sharpening-machine. No. 1,146,513; July 13; Gaz. vol. 216; p. 561.

Alphabetical list of patentees—Continued.

- Perkins, Thomas G., assignor to E. C. Meier and G. A. Nelson, Seattle, Wash. Batter-feeding device. No. 1,124,943; Jan. 12; Gaz. vol. 210; p. 656.
- Perkins, Walter E., Baker, Oreg. Shipping-can. No. 1,162,250; Nov. 30; Gaz. vol. 220; p. 1529.
- Perkins, Walter G., London, England. Copper-smelting furnace. No. 1,136,834; Apr. 20; Gaz. vol. 213; p. 1058.
- Perkins, Willard, Alameda, Cal. Rubber heel and sole. No. 1,129,007; Feb. 16; Gaz. vol. 211; p. 910.
- Perkins, William H. (See Lindgren and Perkins.)
- Perkins, William J. S., Portland, England. Automatic tipping bucket. No. 1,152,842; Aug. 31; Gaz. vol. 217; p. 1620.
- Perkins, William M., North Manchester, Ind. Safety cement railway-tie. No. 1,156,095; Oct. 12; Gaz. vol. 219; p. 294.
- Perkins, William T., and R. R. Hickcox, Baltimore, Md. Rotary drier. No. 1,150,302; Aug. 17; Gaz. vol. 217; p. 814.
- Perkins, Willis J., Grand Rapids, Mich. Shaft-guard. No. 1,139,441; May 11; Gaz. vol. 214; p. 642.
- Perkins, Willis J., Grand Rapids, Mich. Starting device for internal-combustion engines. No. 1,145,435; July 6; Gaz. vol. 216; p. 160.
- Perkins, Willis J., Grand Rapids, Mich. Safety starting device. No. 1,145,436; July 6; Gaz. vol. 216; p. 161.
- Perkins, Willis J., Grand Rapids, Mich. Automatic temperature-regulating device for incubators. No. 1,162,947; Dec. 7; Gaz. vol. 221; p. 74.
- Perks, Thomas, assignor to George Hattersley and Sons, Limited, Keighley, England. Detector device for wet-replenishing mechanism of looms. No. 1,130,329; Mar. 2; Gaz. vol. 212; p. 169.
- Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator, assignor, by mesne assignments, to The Shredded Wheat Company, Niagara Falls, N. Y. Means for reducing cereal products to form. No. 1,143,311; June 15; Gaz. vol. 215; p. 857.
- Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator, assignor, by mesne assignments, to The Shredded Wheat Company, Niagara Falls, N. Y. Machine for manufacturing grain into form for food. No. 1,145,918; July 13; Gaz. vol. 216; p. 349.
- Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator, assignor, by mesne assignments, to The Shredded Wheat Company, Niagara Falls, N. Y. Machine for manufacturing grain into form for food. No. 1,147,263; July 20; Gaz. vol. 216; p. 840.
- Perlman, David. (See Zawistowski, Perlman, and Komow.)
- Permanent Advertising Company. (See Minnick, Warren R., assignor.)
- Permutit Company, The. (See Kriegsheim, Heinrich, assignor.)
- Pernot, Frederick E., Berkeley, Cal. Fog-signal for vessels. No. 1,134,554; Apr. 6; Gaz. vol. 213; p. 172.
- Pernula, Andrew. Oneida, Wash. Rail-joint. No. 1,146,444; July 13; Gaz. vol. 216; p. 536.
- Pero, John T., Parsons, assignor of one-fourth to J. R. Fleming, one-fourth to G. N. Gray, Scranton, and one-fourth to W. Harris, Parsons, Pa. Mine-car stop. No. 1,126,562; Jan. 26; Gaz. vol. 210; p. 1306.
- Peroutek, Frank, New York, N. Y. Apparatus for cleaning beer-pipes. No. 1,129,598; Feb. 23; Gaz. vol. 211; p. 1153.
- Perrault, Joseph E., Belmont, assignor to Hood Rubber Company, Watertown, Mass. Demountable felly-band for vehicle-wheels. No. 1,152,543; Sept. 7; Gaz. vol. 218; p. 61.
- Perrault, Joseph E., Belmont, Mass., assignor to Hood Rubber Co. Tire-building machine. No. 1,166,250; Dec. 28; Gaz. vol. 221; p. 1358.
- Perrault, Zoel, Reeds Ferry, N. H. Shade-hanger. No. 1,153,949; Sept. 21; Gaz. vol. 218; p. 633.
- Perret, George J., New York, N. Y. Card-shuffling machine. No. 1,157,898; Oct. 26; Gaz. vol. 219; p. 1018.
- Perreton, Michael, Alliance, Ohio. File-cabinet. No. 1,125,391; Jan. 19; Gaz. vol. 210; p. 853.
- Perreux-Lloyd, Marcel, Boulogne-sur-Seine, France. Electrolytic process of producing copper. No. 1,133,059; Mar. 23; Gaz. vol. 212; p. 1259.
- Perrin, Frederic S., New York, N. Y., assignor to Splitdorf Electrical Co., Newark, N. J. Electrical transformer system. No. 1,156,035; Oct. 5; Gaz. vol. 219; p. 247.
- Perrin, James H., Los Angeles, Cal. Collapsible stool concealed within a walking-stick. No. 1,166,386; Dec. 28; Gaz. vol. 221; p. 1407.
- Perrin Shocker Manufacturing Company Limited. (See Perrin, William H., assignor.)
- Perrin, William H., assignor to Perrin Shocker Manufacturing Company Limited, New Liskeard, Ontario, Canada. Sheaf-shocker. No. 1,135,715; Apr. 13; Gaz. vol. 213; p. 622.
- Perrine, George, assignor, by mesne assignments, to P. Jackson, trustee, New York, N. Y. Dumping-receptacle. (Reissue.) No. 13,968; Aug. 24; Gaz. vol. 217; p. 1310.
- Perris, Ben, assignor to National Carbon Company, Cleveland, Ohio. Metal coating for arc-light electrodes. No. 1,148,189; July 27; Gaz. vol. 216; p. 1194.
- Perron, Frank J., Aurora, Ill., assignor to National Brush Company. Shoe-cleaning device. No. 1,124,650; Jan. 12; Gaz. vol. 210; p. 553.
- Perron, Louis F., Ballston, Va. Combination guide and line-clasp for floats. No. 1,152,755; Sept. 7; Gaz. vol. 218; p. 137.
- Perry, Arba, Chicago, Ill. Game apparatus. No. 1,146,733; July 13; Gaz. vol. 216; p. 634.
- Perry, Charles F., Bangor, Me. Bail. No. 1,148,399; July 27; Gaz. vol. 216; p. 1269.
- Perry, Charles H., Miami, Fla. Sprinkler-head. No. 1,165,202; Dec. 21; Gaz. vol. 221; p. 949.
- Perry, David P., Chicago, Ill. Electric horn. No. 1,130,676; Mar. 2; Gaz. vol. 212; p. 292.
- Perry, Edward C., Jr., West Lynn, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,156,549; Oct. 12; Gaz. vol. 219; p. 451.
- Perry, Eugene L., assignor to The Rogers-Shear Company, Warren, Pa. Envelop-opener. No. 1,139,572; May 18; Gaz. vol. 214; p. 724.
- Perry, Eugene L., New York, N. Y., assignor to American Stopper Company. Can-body-making machine. No. 1,143,065; June 15; Gaz. vol. 215; p. 770.
- Perry, Frank, Fresno, Cal. Carbureter. No. 1,142,763; June 8; Gaz. vol. 215; p. 623.
- Perry, Frederick H., Beverly, Mass. Sewing-machine. No. 1,129,008; Feb. 16; Gaz. vol. 211; p. 910.
- Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for generating patterns. No. 1,134,287; Apr. 6; Gaz. vol. 213; p. 75.
- Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for generating patterns. No. 1,152,967; Sept. 7; Gaz. vol. 218; p. 216.
- Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-beating machine. No. 1,164,858; Dec. 21; Gaz. vol. 221; p. 829.
- Perry, George F., assignor to Ford-Perry Co., Providence, R. I. Lingerie-clasp. No. 1,129,361; Feb. 23; Gaz. vol. 211; p. 1069.
- Perry, George R. (See Motter, George J., assignor.)
- Perry, George R., Washington, D. C. Coin-trap. No. 1,158,552; Nov. 2; Gaz. vol. 220; p. 51.
- Perry, James M., Sharon, Pa. Plate-mill. No. 1,159,531; Nov. 9; Gaz. vol. 220; p. 423.
- Perry, Jesse P., Hertford, N. C. Twin lace-holder. No. 1,165,624; Dec. 28; Gaz. vol. 221; p. 1135.
- Perry, Joel C., Ocean Grove, N. J. Automobile-signal. No. 1,159,793; Nov. 9; Gaz. vol. 220; p. 519.
- Perry, John B., Edmonds, Wash. Saw jointer and gage. No. 1,163,553; Dec. 7; Gaz. vol. 221; p. 286.
- Perry, Lena R., Battle Creek, Mich. Combined underwaist and shoulder-brace. No. 1,129,515; Feb. 23; Gaz. vol. 211; p. 1123.
- Perry, Ray P. (See Stewart and Perry.)
- Perry, Robert S., Cave Spring, Ga. Composition for coating surfaces of iron and steel. No. 1,147,971; July 27; Gaz. vol. 216; p. 1115.
- Perry, Sid, and C. A. Kenworthy, assignors of one-third to H. P. Scheel and W. McArthur, Tenino, Wash. Oil-burner. No. 1,145,437; July 6; Gaz. vol. 216; p. 161.
- Perry, Thomas M., Pikeville, Ky. Brake apparatus. No. 1,162,805; Dec. 7; Gaz. vol. 221; p. 26.
- Perry, Victor N., Batavia, N. Y. Pneumatic stacker. No. 1,133,060; Mar. 23; Gaz. vol. 212; p. 1260.
- Perry, William A., St. Louis, Mo. Valve mechanism for fire-extinguishing systems. No. 1,159,794; Nov. 9; Gaz. vol. 220; p. 519.
- Perry, William M., Columbia, S. C. Signaling system. No. 1,143,313; June 15; Gaz. vol. 215; p. 858.
- Perry, William M., and A. E. Boozer, Columbia, S. C. Signaling-circuit. No. 1,143,312; June 15; Gaz. vol. 215; p. 857.
- Perry, William R., Hazleton, Pa. Street-cleaner. No. 1,143,133; June 15; Gaz. vol. 215; p. 793.
- Perryman, Henry L., Jacksonville, Fla. Tire-deflatter. No. 1,145,210; July 6; Gaz. vol. 216; p. 81.
- Persley, Jesse, Topeka, Kans. Tractor. No. 1,164,208; Dec. 14; Gaz. vol. 221; p. 559.
- Person, William, and A. C. Abramson, Rockford, Ill. Lamp-shade. No. 1,123,792; Jan. 5; Gaz. vol. 210; p. 203.
- Persons, Charles A., et al., receivers. (See McGrath and Clark, assignors.)
- Persons, Ernest L., Holyoke, Mass. Clasp for bags. No. 1,129,599; Feb. 23; Gaz. vol. 211; p. 1153.
- Persons, William F., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Lamp. No. 1,138,503; May 4; Gaz. vol. 214; p. 274.
- Persoos, Victor, Asbury Park, N. J. Window-scaffold. No. 1,145,263; July 6; Gaz. vol. 216; p. 101.
- Persson, Lars J., Arbelunda, Sweden. Convertible chair. No. 1,157,802; Oct. 26; Gaz. vol. 219; p. 983.
- Persson, Otto F., Erie, Pa., assignor to General Electric Company. Variable-stroke fuel-pump. No. 1,132,284; Mar. 16; Gaz. vol. 212; p. 927.
- Persson, Otto F., Erie, Pa., assignor to General Electric Company. Combined scavenging-pump and compressor. No. 1,154,336; Sept. 21; Gaz. vol. 218; p. 766.

- Perugini, Ignace, Toronto, Ontario, Canada. Internal-combustion engine. No. 1,138,783; May 11; Gaz. vol. 214; p. 411.
- Pervells, Hercules, New York, N. Y. Sectional gun. No. 1,163,450; Dec. 7; Gaz. vol. 221; p. 251.
- Pervillac, Henry, Villeurbanne, France. Color-printing machine. No. 1,134,697; Apr. 6; Gaz. vol. 213; p. 224.
- Pesenti, Guido, assignor to M. Pesenti, Paris, France. Hollow nail. No. 1,154,881; Sept. 28; Gaz. vol. 218; p. 979.
- Pesenti, Mario. (See Pesenti, Guido, assignor.)
- Pessarra, Conrad, San Diego, Cal. Combined couch and bed. No. 1,139,442; May 11; Gaz. vol. 214; p. 643.
- Pestel, Arthur, New York, N. Y. Scales indicating the advance of their multiple records. No. 1,124,510; Jan. 12; Gaz. vol. 210; p. 501.
- Pestel, William, assignor to Woldenberg & Schaar, Chicago, Ill. Agate-mounting for balances. No. 1,128,499; Feb. 16; Gaz. vol. 211; p. 732.
- Pestel, William, assignor to Woldenberg & Schaar, Chicago, Ill. Balance. No. 1,128,500; Feb. 16; Gaz. vol. 211; p. 732.
- Pester, Gustav R., Wittgensdorf, near Chemnitz, Germany. Producing melange-like dyed yarns, hosiery, and weavings. No. 1,145,846; July 6; Gaz. vol. 216; p. 305.
- Peteler, Adolph, Yonkers, N. Y. Automobile-jack. No. 1,158,272; Oct. 26; Gaz. vol. 219; p. 1148.
- Peter, Alfred, Three Rivers, Mich. Lubricant-conveying device. No. 1,126,071; Jan. 26; Gaz. vol. 210; p. 1127.
- Peter, Alfred, Three Rivers, Mich. Starting device for internal-combustion engines. No. 1,126,072; Jan. 26; Gaz. vol. 210; p. 1128.
- Peter, Alfred, Berlin, Germany, assignor to General Electric Company. Centrifugal throwing-pump. No. 1,156,550; Oct. 12; Gaz. vol. 219; p. 451.
- Peter, Arnold H., New York, N. Y. Making an amber-like substance. No. 1,147,264; July 20; Gaz. vol. 216; p. 841.
- Peter, Grace F., Chicago, Ill. Clothes-hanger. No. 1,144,058; June 22; Gaz. vol. 215; p. 1140.
- Peter Smith Heater Company *et al.* (See Williams, Harry S., assignor.)
- Peter, Stephen, Omaha, Nebr. Composite utensil. No. 1,135,318; Apr. 13; Gaz. vol. 213; p. 481.
- Peter, Stephen, Omaha, assignor of one-half to C. C. Campbell, Hastings, Nebr. Soil-receptacle for water-closets. No. 1,141,976; June 8; Gaz. vol. 215; p. 348.
- Peterman, Ervin B., and C. H. Reser, Wichita, Kans. Radiator-hose clamp and protector. No. 1,146,813; July 20; Gaz. vol. 216; p. 683.
- Petermann, Otto. (See Hazen and Petermann.)
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Incorporated. Type-writing machine. No. 1,137,277; Apr. 27; Gaz. vol. 213; p. 1255.
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Incorporated. Escapement mechanism for type-writing machines. No. 1,140,848; May 25; Gaz. vol. 214; p. 1206.
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Incorporated. Keyboard for type-writing machines. No. 1,144,238; June 22; Gaz. vol. 215; p. 1205.
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Incorporated. Type-writing machine. No. 1,161,880; Nov. 30; Gaz. vol. 220; p. 1398.
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Incorporated. Carriage for type-writing machines. No. 1,162,507; Nov. 30; Gaz. vol. 220; p. 1617.
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Incorporated. Type-writing machine. No. 1,162,508; Nov. 30; Gaz. vol. 220; p. 1618.
- Petermüller, Joseph, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Control device for rotary boiler feed-pumps. No. 1,129,009; Feb. 16; Gaz. vol. 211; p. 910.
- Peters, Burton R., Erie, Pa. Scaffold. No. 1,147,541; July 20; Gaz. vol. 216; p. 938.
- Peters, Charles H., Brooklyn, N. Y., assignor of one-half to H. Anderman, Newark, N. J. Shock-absorber. No. 1,149,943; Aug. 10; Gaz. vol. 217; p. 625.
- Peters, Charles W., Moose Jaw, Saskatchewan, Canada. Grain-separator. No. 1,136,973; Apr. 27; Gaz. vol. 213; p. 1142.
- Peters, Eleanor M., Lake Forest, Ill. Bag-cover. No. 1,165,203; Dec. 21; Gaz. vol. 221; p. 950.
- Peters, Frank E., assignor of one-half to J. D. Eastman, Indianapolis, Ind. Cement building-block. No. 1,154,546; Sept. 21; Gaz. vol. 218; p. 836.
- Peters, Frank M. (See Hungerford, Warren H., assignor.)
- Peters, Gustav. (See Duden and Peters.)
- Peters, Henry, Rahway, N. J. Reproducing pictures. No. 1,143,860; June 22; Gaz. vol. 215; p. 1070.
- Peters, Henry W., Boston, Mass. Safety-joint. No. 1,148,855; Aug. 3; Gaz. vol. 217; p. 132.
- Peters, Horatio G. (See Aurand, Balera J., assignor.)
- Peters, Howard L., assignor to J. Bromley & Sons, Philadelphia, Pa. Pattern-setting machine. No. 1,130,841; Mar. 9; Gaz. vol. 212; p. 382.
- Peters, James F., Ligonier, and J. W. Dudgeon, Pittsburg, Pa. Insole. No. 1,151,609; Aug. 31; Gaz. vol. 217; p. 1367.
- Peters, Johann J., Reinfeld, Saskatchewan, Canada. Attachment to cars. No. 1,147,813; July 27; Gaz. vol. 216; p. 1059.
- Peters, John. (See Goodman and Peters.)
- Peters, Marcus W., La Fayette, assignor of one-half to M. Murphy, Manlius, N. Y. Wheel-driving mechanism. No. 1,141,578; June 1; Gaz. vol. 215; p. 176.
- Peters, Mary A., Brooklyn, N. Y. Guard for beds. No. 1,146,095; July 13; Gaz. vol. 216; p. 412.
- Peters, Melville E., Denver, Colo. Pneumatic device for feeding finishing-blanks to box-covering machines. No. 1,149,405; Aug. 10; Gaz. vol. 217; p. 430.
- Peters, Robert M., and L. Warren, Lebanon, Ill. Station-indicator. No. 1,146,514; July 13; Gaz. vol. 216; p. 561.
- Peters, William A. (See James and Peters.)
- Petersen, Andrew T., assignor of one-half to T. J. Fair, Colorado Springs, Colo. Glide-caster. No. 1,155,269; Sept. 28; Gaz. vol. 218; p. 1111.
- Petersen, Charles, Corvallis, Oreg. Gate. No. 1,161,518; Nov. 23; Gaz. vol. 220; p. 1228.
- Petersen, Christen, Davenport, Iowa. Rotary engine. No. 1,155,092; Sept. 28; Gaz. vol. 218; p. 1054.
- Petersen, Christian, Portland, Me. Combination furniture. No. 1,148,460; July 27; Gaz. vol. 216; p. 1288.
- Petersen, Christian A., Beverly, Mass. Shock-absorber. No. 1,135,391; Apr. 13; Gaz. vol. 213; p. 506.
- Petersen, Christian H., assignor to J. E. Randell, Chicago, Ill. Shade-support. No. 1,124,945; Jan. 12; Gaz. vol. 210; p. 657.
- Petersen, Christian M., assignor to T. E. Ostlund, Seattle, Wash. Vehicle-wheel. No. 1,140,766; May 25; Gaz. vol. 214; p. 1176.
- Petersen, Clarence, Ludington, Mich. Tool-holding attachment for plows. No. 1,125,169; Jan. 19; Gaz. vol. 210; p. 772.
- Petersen, Hans T., Seattle, Wash. Fluid-fuel burner. No. 1,148,796; Aug. 3; Gaz. vol. 217; p. 113.
- Petersen, Henry, Mount Auburn, Iowa. Cultivator. No. 1,161,964; Nov. 30; Gaz. vol. 220; p. 1430.
- Petersen, Jacob. (See Reimer, Jorgen A., assignor.)
- Petersen, Ludvig T., assignor to The Republic Rubber Company, Youngstown, Ohio. Elastic tire for vehicle-wheels. No. 1,152,756; Sept. 7; Gaz. vol. 218; p. 138.
- Petersen, Peter. (See Cable, James R., assignor.)
- Petersen, Peter C. (See Nielsen and Petersen.)
- Petersen, Waldemar, Darmstadt, Germany. High-voltage protection. No. 1,153,821; Sept. 14; Gaz. vol. 218; p. 554.
- Petersohn, August W., Aurora, Ill. Smoking-pipe. No. 1,161,519; Nov. 23; Gaz. vol. 220; p. 1229.
- Peterson, Alfred, Independence, Mo. Rotary motor. No. 1,147,428; July 20; Gaz. vol. 216; p. 899.
- Peterson, Alfred T., assignor of one-half to E. V. Parson, Fernie, British Columbia, Canada. Lace-hook for boots and shoes. No. 1,126,852; Feb. 2; Gaz. vol. 211; p. 68.
- Peterson, Andrew J., Isanti, Minn. Self-feeder for threshing-machines. No. 1,132,731; Mar. 23; Gaz. vol. 212; p. 1138.
- Peterson, Andrew J., Isanti, Minn. Band-cutter and feeder for threshing-machines. No. 1,146,900; July 20; Gaz. vol. 216; p. 713.
- Peterson, Andrew R., assignor of one-half to A. Hulteen, Clarkfield, Minn. Grain-door for railways. No. 1,135,918; Apr. 13; Gaz. vol. 213; p. 691.
- Peterson, Axel W., San Francisco, Cal. Vise. No. 1,134,347; Apr. 6; Gaz. vol. 213; p. 96.
- Peterson, Ben R., *et al.* (See Peterson, Bror T., assignor.)
- Peterson, Bror T., assignor of one-third to B. R. Peterson and one-third to W. J. Maxwell, Chicago, Ill. Card-door-operating mechanism. No. 1,132,683; Mar. 23; Gaz. vol. 212; p. 1120.
- Peterson, Burt A. (See Colman and Peterson.)
- Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Doffer. No. 1,127,674; Feb. 9; Gaz. vol. 211; p. 391.
- Peterson, Carl A., Stanhope, Iowa. Spring attachment for automobile steering-gears. No. 1,164,013; Dec. 14; Gaz. vol. 221; p. 493.
- Peterson, Carl A., Chicago, Ill., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Apparatus for cleansing castings. No. 1,159,707; Nov. 9; Gaz. vol. 220; p. 487.
- Peterson, Carl H., Denver, Colo. Garter-supporter. No. 1,142,201; June 8; Gaz. vol. 215; p. 428.
- Peterson, Charles, Carroll, Iowa. Draft-equalizer. No. 1,133,179; Mar. 23; Gaz. vol. 212; p. 1302.
- Peterson, Charles A., Northome, Minn. Spark-plug. No. 1,125,879; Jan. 19; Gaz. vol. 210; p. 1024.
- Peterson, Clarence A., Washington, D. C., assignor to Welsbach Light Company, Gloucester City, N. J. Gas-burner. No. 1,149,535; Aug. 10; Gaz. vol. 217; p. 476.
- Peterson, David E., and I. B. Ritter, Philadelphia, Pa. Freight-car. No. 1,132,876; Mar. 23; Gaz. vol. 212; p. 1191.
- Peterson, Edward, Arlington, Tex. Belt-lifter for bull-wheels. No. 1,133,180; Mar. 23; Gaz. vol. 212; p. 1302.
- Peterson, Edwin L., assignor to Pressed Steel Truck Company, Pittsburgh, Pa. Platform-truck. No. 1,143,134; June 15; Gaz. vol. 215; p. 793.

Alphabetical list of patentees—Continued.

- Peterson, Elmer V., St. Paul, Minn. Fender. No. 1,159,263; Nov. 2; Gaz. vol. 220; p. 297.
- Peterson, Emil. (See Anderson, John P., assignor.)
- Peterson, Eric, Lougheed, Alberta, Canada. Post-card-display rack. No. 1,134,485; Apr. 6; Gaz. vol. 213; p. 147.
- Peterson, Eric, Lougheed, Alberta, Canada. Post-card-display rack. No. 1,160,197; Nov. 16; Gaz. vol. 220; p. 714.
- Peterson, Erick B., Providence, R. I., assignor to C. M. Abbott, Attleboro, Mass. Pin. No. 1,165,706; Dec. 28; Gaz. vol. 221; p. 1164.
- Peterson, Frank, Lynden, Wash. Scrubbing-machine. No. 1,131,158; Mar. 9; Gaz. vol. 212; p. 490.
- Peterson, Frank V., Lindsborg, Kans. Clutch. No. 1,125,708; Jan. 19; Gaz. vol. 210; p. 966.
- Peterson, Fred C., Clermont, Pa. Steam-generating system. No. 1,144,059; June 22; Gaz. vol. 215; p. 1140.
- Peterson, Fred K., and J. H. Baird, assignors to Crane Manufacturing Co., Galesburg, Ill. Baling-press. No. 1,126,073; Jan. 26; Gaz. vol. 210; p. 1129.
- Peterson, Fredolf J., Salem, Ohio. Adding attachment for credit-registers. No. 1,151,123; Aug. 24; Gaz. vol. 217; p. 1154.
- Peterson, George, Bayonne, N. J. Steam-condenser. No. 1,139,135; May 11; Gaz. vol. 214; p. 537.
- Peterson, George A., Oakland, assignor to Unit Brick and Stone Company, San Francisco, Cal. Positive clutch. No. 1,139,443; May 11; Gaz. vol. 214; p. 643.
- Peterson, Gustav A. (See Peterson, Linus C. and G. A.)
- Peterson, James C. (See Mays, James F., assignor.)
- Peterson, Johann G., assignor to Manhattan Electrical Supply Company, Jersey City, N. J. Base member for separable attachment-plugs. No. 1,130,626; Mar. 2; Gaz. vol. 212; p. 274.
- Peterson, Johann G., assignor to Manhattan Electrical Supply Company, Jersey City, N. J. Clip device. No. 1,148,044; July 27; Gaz. vol. 216; p. 1142.
- Peterson, John, Chicago, Ill. Apparatus for forming concrete columns. No. 1,126,853; Feb. 2; Gaz. vol. 211; p. 68.
- Peterson, John, Felch, Mich. Bed-spring. No. 1,139,573; May 18; Gaz. vol. 214; p. 725.
- Peterson, John M., assignor to G. J. Saver, Chicago, Ill. Sharpener for rotary blades. No. 1,165,342; Dec. 21; Gaz. vol. 221; p. 996.
- Peterson, Jonathan, Brooklyn, N. Y. Composite foil sheet. No. 1,137,278; Apr. 27; Gaz. vol. 213; p. 1255.
- Peterson, Jonathan, Brooklyn, N. Y. Method and apparatus for producing compound sheets. No. 1,137,279; Apr. 27; Gaz. vol. 213; p. 1255.
- Peterson, Jonathan, Brooklyn, N. Y. Foil-package for tobacco and other substances. No. 1,137,280; Apr. 27; Gaz. vol. 213; p. 1256.
- Peterson, Jonathan, Brooklyn, N. Y. Making bags, pouches, packages, or containers. No. 1,137,281; Apr. 27; Gaz. vol. 213; p. 1256.
- Peterson, Karl, assignor to Crescent Tool Company, Jamestown, N. Y. Wrench. No. 1,133,236; Mar. 23; Gaz. vol. 212; p. 1319.
- Peterson, Linus C. and G. A., Colbert, Wash. Gate-operating means. No. 1,133,574; Mar. 30; Gaz. vol. 212; p. 1478.
- Peterson, Nels, *et al.* (See Knudsen, John L., assignor.)
- Peterson, Oliver U., Victoria, Ill. Gate-operating device. No. 1,149,406; Aug. 10; Gaz. vol. 217; p. 430.
- Peterson, Oscar J., Iron Belt, Wis. Brake. No. 1,148,400; July 27; Gaz. vol. 216; p. 1269.
- Peterson, Oscar, and H. D. Graves, Lincoln, Kans. Roof-gutter. No. 1,126,854; Feb. 2; Gaz. vol. 211; p. 63.
- Peterson, Per A., New York, N. Y. Pencil attachment. No. 1,124,651; Jan. 12; Gaz. vol. 210; p. 553.
- Peterson, Per A., New York, N. Y. Welt-groover. No. 1,152,757; Sept. 7; Gaz. vol. 218; p. 138.
- Peterson, Per A., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Pressure engine. No. 1,123,364; Jan. 5; Gaz. vol. 210; p. 58.
- Peterson, Per A., assignor to De Laval Steam Turbine Company, Trenton, N. J. Balancing of centrifugal pumps. No. 1,151,964; Aug. 31; Gaz. vol. 217; p. 1488.
- Peterson, Per A., assignor to De Laval Steam Turbine Company, Trenton, N. J. Balancing of centrifugal pumps. No. 1,151,965; Aug. 31; Gaz. vol. 217; p. 1489.
- Peterson, Peter, San Francisco, Cal. Clam-shell-dredger-bucket buffer. No. 1,153,950; Sept. 21; Gaz. vol. 218; p. 633.
- Peterson, Sven O., Rock Island, Ill. Cement leveling and finishing machine. No. 1,157,899; Oct. 26; Gaz. vol. 219; p. 1018.
- Peterson, Swan O. (See Walstad and Peterson.)
- Peterson, Victor E., Omaha, Nebr. Trailing apparatus. No. 1,155,437; Oct. 5; Gaz. vol. 219; p. 39.
- Peterson, William, Sargent, Nebr. Radiator-support for autos. No. 1,161,722; Nov. 23; Gaz. vol. 220; p. 1297.
- Peterson, William A. (See Field, Berton E., assignor.)
- Peterson, William J., Brooklyn, N. Y. Resilient vehicle-wheel. No. 1,158,837; Nov. 2; Gaz. vol. 220; p. 151.
- Petcboud, Leonidas, Beatrice, Nebr. Feed-grinder. No. 1,141,825; June 1; Gaz. vol. 215; p. 258.
- Petit, Albert, Los Angeles, Cal. Safety-stop for elevators. No. 1,158,150; Oct. 26; Gaz. vol. 219; p. 1106.
- Petit, Charles G., Bellevue, France. Production of safety-grounds for documents. No. 1,153,131; Sept. 7; Gaz. vol. 218; p. 270.
- Petit, Joseph C., assignor of one-half to C. E. Hall, Los Angeles, Cal. Washing-machine. No. 1,157,178; Oct. 19; Gaz. vol. 219; p. 702.
- Petitmaire, Felix H. (See Knauss and Petitmaire.)
- Petitmaire, Felix H., Philadelphia, Pa. Shock-absorber for motor-vehicles. No. 1,146,901; July 20; Gaz. vol. 216; p. 713.
- Petitmaire, Felix H., Philadelphia, Pa. Telescoping shock-absorber. No. 1,153,273; Oct. 26; Gaz. vol. 219; p. 1149.
- Petosky, Charles W., assignor to Badger Safety Razor Company, Milwaukee, Wis. Safety-razor. No. 1,135,611; Apr. 13; Gaz. vol. 213; p. 585.
- Petre, Daisy D., Omaha, Nebr. Knife-rack. No. 1,157,578; Oct. 19; Gaz. vol. 219; p. 841.
- Petrelus, Oscar R., Stockholm, Sweden. Making paint-prints. No. 1,161,881; Nov. 30; Gaz. vol. 220; p. 1399.
- Petri, Gunther H., Boston, Mass. Forming-machine. No. 1,141,884; June 1; Gaz. vol. 215; p. 278.
- Petri, Otto. (See Wihs and Petri.)
- Petrich, Gustav, Westfield, Wis. Smoke-pipe cleaner-head. No. 1,162,393; Nov. 30; Gaz. vol. 220; p. 1577.
- Petrich, John, Youngstown, Ohio. Filler for egg-cases. No. 1,165,204; Dec. 21; Gaz. vol. 221; p. 950.
- Petrie, Frank L., Redwood, N. Y. Device for handling and bagging grain. No. 1,128,183; Feb. 9; Gaz. vol. 211; p. 573.
- Petrie, Michael, Irvington, N. J. Supporting attachment for ironing-boards, tables, benches, and the like. No. 1,133,662; Mar. 30; Gaz. vol. 212; p. 1511.
- Petsch, Leo G., Wentworth, S. D. Cultivator attachment. No. 1,147,814; July 27; Gaz. vol. 216; p. 1059.
- Pettengill, George I. (See Ryder, Joshua H., assignor.)
- Pettengill, George M., Haverhill, Mass., assignor to Haverhill Shoe Machinery Company. Top-lift-cementing means for heel-nailing machines. No. 1,156,850; Oct. 12; Gaz. vol. 219; p. 557.
- Pettengill, Wallace H., Chicago, Ill. Inspection device. No. 1,161,882; Nov. 30; Gaz. vol. 220; p. 1399.
- Pettersen, Kristian. (See Sælid and Pettersen.)
- Pettersen, Andes K. (See Pierce and Pettersen.)
- Pettersen, Clarence A., San Anselmo, assignor of one-half to J. Golinsky, San Francisco, Cal. Folding paper box. No. 1,132,877; Mar. 23; Gaz. vol. 212; p. 1192.
- Pettersen, Per O., assignor of one-half to W. Thourreen, Galesburg, Ill. Wrench. No. 1,147,340; July 20; Gaz. vol. 216; p. 868.
- Pettes, William F., and A. E. Spicer, New York, N. Y., assignors to said Pettes. Means for automatically stopping railway-motors. No. 1,129,425; Feb. 23; Gaz. vol. 211; p. 1091.
- Petty, Claudius M., Oxford, N. C. Handle for couplings of air-brakes. No. 1,165,283; Dec. 21; Gaz. vol. 221; p. 976.
- Petty, George E. (See Schaefer, Ernst, assignor.)
- Petty, John O., Belvidere, Ill. Saw-setting machine. No. 1,123,365; Jan. 5; Gaz. vol. 210; p. 58.
- Pettibone, Franklin A., Conewango Valley, N. Y. Tire-tightener. No. 1,153,822; Sept. 14; Gaz. vol. 218; p. 554.
- Pettibone Mulliken Company. (See Strom, Eugene N., assignor.)
- Pettigrove, Carl W., Tremont, Me. Key. No. 1,155,268; Sept. 28; Gaz. vol. 218; p. 1111.
- Pettis, Clifton D., Ridgewood, N. J. Brake-shoe. No. 1,138,784; May 11; Gaz. vol. 214; p. 412.
- Pettis, John G., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Oxo-acetylene welding-torch. No. 1,151,496; Aug. 24; Gaz. vol. 217; p. 1280.
- Pettit, Francis. (See Briggs, Edward A., assignor.)
- Pettit, George B., Brooklyn, N. Y. Red-joint. No. 1,154,803; Sept. 28; Gaz. vol. 218; p. 954.
- Pettit, Johnathan E., Los Angeles, Cal. Barrel-tongs. No. 1,165,341; Dec. 21; Gaz. vol. 221; p. 995.
- Pettit, Lyman D., Everett, Wash. Lubricant. No. 1,143,724; June 22; Gaz. vol. 215; p. 1023.
- Pettit, Samuel H., *et al.* (See Woods, James C., assignor.)
- Pettit, Samuel H. (See Wright and Woods, assignors.)
- Pettitt, Paul C., Schofield Barracks, Honolulu county, Hawaii. Cement and concrete nozzle. No. 1,153,132; Sept. 7; Gaz. vol. 218; p. 270.
- Petty, John P., Reading, England. Temporary binder or loose-sheet holder. No. 1,142,455; June 8; Gaz. vol. 215; p. 520.
- Petty, John P., Reading, England. Temporary binder or loose-sheet or the like holder. No. 1,148,618; Aug. 3; Gaz. vol. 217; p. 49.
- Petty, Judson E., Greensboro, N. C. Wheeled scraper. No. 1,137,230; Apr. 27; Gaz. vol. 213; p. 1237.
- Petz, Eduard, Zelechowitz, assignor to Filzkorkfabrik Gesellschaft mit beschränkter Haftung, Vienna, Austria-Hungary. Process for treating osier-bark. No. 1,148,401; July 27; Gaz. vol. 216; p. 1269.
- Petz, Henrik, Budapest, Austria-Hungary. Apparatus for adjusting multiple-cutter holder of turning-lathes. No. 1,142,362; June 8; Gaz. vol. 215; p. 485.
- Petzelberger, Julius. (See Rings, Carl R., assignor.)

Alphabetical list of patentees—Continued.

- Pevear, Munroe R., Boston, Mass. Method of and apparatus for the matching of colors. No. 1,131,265; Mar. 9; Gaz. vol. 212; p. 528.
- Peycke, Armand H., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Adjustable brake-head. No. 1,140,057; May 18; Gaz. vol. 214; p. 896.
- Peycke, Armand H., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Brake-head. No. 1,140,058; May 18; Gaz. vol. 214; p. 897.
- Peycke, Armand H., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Side frame. No. 1,165,707; Dec. 28; Gaz. vol. 221; p. 1164.
- Peyrot, Frank, *et al.* (See Meier, John, assignor.)
- Peyton, Joseph I. (See Hitt and Peyton.)
- Peyton, Joseph I., and S. E. Hitt, Sydney, Nova Scotia, Canada. Ingot-mold. No. 1,139,219; May 11; Gaz. vol. 213; p. 564.
- Peyton, William E., Sherman, Okla. Collapsible egg case. No. 1,141,357; June 1; Gaz. vol. 215; p. 96.
- Peyton, William T., Fort Worth, Tex. Seal. No. 1,132,970; Mar. 23; Gaz. vol. 212; p. 1227.
- Pezzer, Michel de, Paris, France. Indicating device for phonography and its application. No. 1,166,115; Dec. 28; Gaz. vol. 221; p. 1306.
- Pfaff, August, Freiberg, Germany. Highly-refractory material and making it. No. 1,159,264; Nov. 2; Gaz. vol. 220; p. 297.
- Pfannenmüller, Gottlieb, Neustadt-on-the-Aisch, Germany. Plow. No. 1,158,838; Nov. 2; Gaz. vol. 220; p. 151.
- Pfannenstiel, Harry, Antwerp, Belgium, and A. H. Adams, Sparkill, assignors to Western Electric Company, New York, N. Y. Impulse-producing mechanism. No. 1,158,951; Nov. 2; Gaz. vol. 220; p. 189.
- Pfannkuch, Wilhelm, Berlin-Niederschönweide, Germany, assignor to General Electric Company. Protective device for cables. No. 1,161,723; Nov. 23; Gaz. vol. 220; p. 1297.
- Pfanstiel, Carl A., North Chicago, Ill. Electric vulcanizer. No. 1,139,069; May 11; Gaz. vol. 214; p. 513.
- Pfau, Arnold, Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Relief mechanism. No. 1,136,609; Apr. 20; Gaz. vol. 213; p. 978.
- Pfau, Arnold, Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Fluid-pressure regulator. No. 1,157,957; Oct. 26; Gaz. vol. 219; p. 1038.
- Pfau, Charles, Cincinnati, assignor to The Pfau Manufacturing Company, Norwood, Ohio. Hinge for water-closet seats. No. 1,127,919; Feb. 9; Gaz. vol. 211; p. 481.
- Pfau, Charles, assignor to The Pfau Manufacturing Company, Cincinnati, Ohio. Buffer for water-closet seats. No. 1,129,010; Feb. 16; Gaz. vol. 211; p. 911.
- Pfau, Charles, assignor to The Pfau Manufacturing Company, Norwood, Ohio. Valve-ball. No. 1,129,226; Feb. 23; Gaz. vol. 211; p. 1021.
- Pfau Manufacturing Company, The. (See Pfau, Charles, assignor.)
- Pfeffer, John E., Minneapolis, Minn., assignor to Continental Engineering Co., Chicago, Ill. Autocycle. No. 1,132,380; Mar. 16; Gaz. vol. 212; p. 961.
- Pfefferkorn, William L., A. P. Schloerb, and A. H. Hammett, Milwaukee, Wis. Extension-table. No. 1,128,038; Feb. 9; Gaz. vol. 211; p. 523.
- Pfeifer, Charles P., Humphrey, Nebr. Fly-paper holder. No. 1,152,544; Sept. 7; Gaz. vol. 218; p. 61.
- Pfeifer, Leo L., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Lamp. No. 1,161,410; Nov. 23; Gaz. vol. 220; p. 1191.
- Pfeifer, Leo L., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Lamp. No. 1,165,120; Dec. 21; Gaz. vol. 221; p. 921.
- Pfeiffer, Carl, St. Louis, Mo. Shoe-jack. No. 1,127,920; Feb. 9; Gaz. vol. 211; p. 481.
- Pfeiffer, Charles C., assignor to Keuffel & Esser Company, Hoboken, N. J. Parallel-ruler. No. 1,141,483; June 1; Gaz. vol. 215; p. 142.
- Pfeiffer, Charles G., assignor of one-half to G. W. Parker, Jr., Philadelphia, Pa. Screening-chute for coal-pockets. No. 1,125,709; Jan. 19; Gaz. vol. 210; p. 966.
- Pfeiffer, Frank, Chicago, Ill. Adjustable leg for washtubs. No. 1,147,886; July 27; Gaz. vol. 216; p. 1085.
- Pfeiffer, Herbert J., New Britain, assignor, by mesne assignments, to The Burns and Bassick Company, Bridgeport, Conn. Drawer-slide and the like. No. 1,161,330; Nov. 23; Gaz. vol. 220; p. 1161.
- Pfeiffer, Immanuel, Jr., Bedford, Mass. Pincers. No. 1,134,980; Apr. 6; Gaz. vol. 213; p. 321.
- Pfeiffer, Lee N., assignor to Fischer-Leaf Company, Louisville, Ky. Stove-door. No. 1,146,096; July 13; Gaz. vol. 216; p. 412.
- Pfeiffer, Otto G., assignor to Utahna Development Company, Salt Lake City, Utah. Alternating rotary gearing for washing-machines. No. 1,149,283; Aug. 10; Gaz. vol. 217; p. 386.
- Pfeiffer, Otto G., assignor to Utahna Development Company, Salt Lake City, Utah. Clutch. No. 1,153,853; Sept. 14; Gaz. vol. 218; p. 566.
- Pfeiffer, Otto G., St. Louis, Mo., assignor to Utahna Development Company, Salt Lake City, Utah. Clutch. No. 1,153,854; Sept. 14; Gaz. vol. 218; p. 566.
- Pfenninger Pretzel & Baking Company. (See Schaetzel, George H., assignor.)
- Pfiffner, Frank J., Waterloo, Iowa. Molding-machine for concrete burial-vaults. No. 1,123,586; Jan. 5; Gaz. vol. 210; p. 132.
- Pfister & Vogel Leather Company. (See Levi, Louis E., assignor.)
- Pfistner, Frank G. (See Zuck and Pfistner.)
- Pflager, Harry M. (See Howard and Pflager.)
- Pflager, Harry M., St. Louis, Mo. Car construction. No. 1,147,429; July 20; Gaz. vol. 216; p. 899.
- Pflager, Harry M., St. Louis, Mo. Car-truck. No. 1,147,430; July 20; Gaz. vol. 216; p. 900.
- Pflager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Antitelescopic car construction. No. 1,140,059; May 18; Gaz. vol. 214; p. 897.
- Pflager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck for locomotives. No. 1,160,751; Nov. 16; Gaz. vol. 220; p. 912.
- Pflying, Charles R., Baltimore, Md. Power plant for aeroplanes. No. 1,124,652; Jan. 12; Gaz. vol. 210; p. 554.
- Pflederer, William, *et al.* (See Stuber, Walter C., assignor.)
- Pleeker, Floyd J., Niagara Falls, N. Y. Post-card-vending machine. No. 1,151,711; Aug. 31; Gaz. vol. 217; p. 1400.
- Pleghar, Frank P., New Haven, Conn. Mechanical seal. No. 1,126,268; Jan. 26; Gaz. vol. 210; p. 1199.
- Pleghar Hardware Specialty Co., The. (See Stahl, Charles H., assignor.)
- Pflederer, Fred, Jr., and J. N. Bagley, Superior, Nebr. Centering-tool. No. 1,160,752; Nov. 16; Gaz. vol. 220; p. 912.
- Pfeumer, Hans, Toronto, Ontario, Canada. Jack. No. 1,124,316; Jan. 12; Gaz. vol. 210; p. 431.
- Pflug, Frederick A., Berlin, Ontario, Canada. Portable wardrobe. No. 1,145,264; July 6; Gaz. vol. 216; p. 101.
- Pfuger, Frank X., Portland, Oreg. Roller-head. No. 1,142,202; June 8; Gaz. vol. 215; p. 429.
- Pfoser, Adolf, Achern, Germany. Conveying air for combustion or gas. No. 1,131,952; Mar. 16; Gaz. vol. 212; p. 804.
- Pfouts, James A., *et al.* (See Boudwin, Edward H., assignor.)
- Pfouts, Leroy S., Canton, Ohio. Motor-vehicle. No. 1,157,803; Oct. 26; Gaz. vol. 219; p. 983.
- Pfouts, Leroy S., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Heating or cooling apparatus. No. 1,156,851; Oct. 12; Gaz. vol. 219; p. 557.
- Pfriemer, Charles J., assignor to Chas. I. Friemer, Inc., New York, N. Y. Stapling-machine. No. 1,149,944; Aug. 10; Gaz. vol. 217; p. 625.
- Pfund, August H., Baltimore, Md. Vacuum-producing method and means. No. 1,145,019; July 13; Gaz. vol. 216; p. 386.
- Pfund, Richard, New York, N. Y. Quenched spark-gap. No. 1,161,520; Nov. 23; Gaz. vol. 220; p. 1229.
- Pfyffer, Paul de Kelowna, British Columbia, Canada. Buffer for vehicle-wheels. No. 1,130,927; Mar. 9; Gaz. vol. 212; p. 412.
- Phare, John J., assignor to Z. C. Hodges, Cleveland, Ohio. Mop-holder. No. 1,132,524; Mar. 16; Gaz. vol. 212; p. 1014.
- Pharo, Timothy F., Tuckerton, N. J. Ice-making apparatus. No. 1,127,275; Feb. 2; Gaz. vol. 211; p. 214.
- Phelan, Elizabeth E. (See Wiswell, Frederick A., assignor.)
- Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,124,946; Jan. 12; Gaz. vol. 210; p. 657.
- Phelan, Merton D., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for breasting the heels of boots and shoes. (Reissue.) No. 13,972; Aug. 24; Gaz. vol. 217; p. 1312.
- Phelps, Abraham. (See Loyd and Phelps.)
- Phelps, Alghorn S., Chicago, Ill. Water-shed for acetylene-generators. No. 1,138,685; May 11; Gaz. vol. 214; p. 375.
- Phelps Can Company. (See Phelps, Walter J., assignor.)
- Phelps, Charles A., Danville, Ill. Smoke-consuming apparatus. No. 1,165,899; Dec. 28; Gaz. vol. 221; p. 1230.
- Phelps, Clarence A., and J. C. Goller, Pittsburgh, Pa. Fluid-fuel filter. No. 1,124,166; Jan. 5; Gaz. vol. 210; p. 329.
- Phelps, Edwin S., Elizabeth, N. J. Alarm for automobile and other wheel-tires. No. 1,138,407; May 4; Gaz. vol. 214; p. 242.
- Phelps, Edwin S., Elizabeth, N. J. Time-recording lock. No. 1,155,678; Oct. 5; Gaz. vol. 219; p. 123.
- Phelps, Edwin S., Elizabeth, N. J. Time-recording lock. No. 1,155,679; Oct. 5; Gaz. vol. 219; p. 123.
- Phelps, Ella E., Union City, Pa. Combined cabinet and table. No. 1,133,743; Mar. 30; Gaz. vol. 212; p. 1539.
- Phelps, Foster C., Waukesha, Wis. Humidifier. No. 1,158,553; Nov. 2; Gaz. vol. 220; p. 51.
- Phelps, George L., Chicago, Ill., assignor to International Harvester Company of New Jersey. Corn-husking machine. No. 1,157,038; Oct. 19; Gaz. vol. 219; p. 654.

Alphabetical list of patentees—Continued.

- Phelps, George T., Cambridge, Mass. Eye-shield. No. 1,139,444; May 11; Gaz. vol. 214; p. 643.
- Phelps, James C., Springfield, Mass. Outlet or junction box. No. 1,124,653; Jan. 12; Gaz. vol. 210; p. 554.
- Phelps, James C., Springfield, Mass. Terminal fitting for electric conduits. No. 1,141,484; June 1; Gaz. vol. 215; p. 143.
- Phelps, James C., Springfield, Mass. Fitting for electric conduits. No. 1,165,205; Dec. 21; Gaz. vol. 221; p. 951.
- Phelps, John O., New York, N. Y. Combined rail-brace and tie-plate. No. 1,155,270; Sept. 28; Gaz. vol. 218; p. 1111.
- Phelps, Joseph. (See Farnham, Smith, and Phelps.)
- Phelps, Roy O., Minneapolis, Minn. Hand-truck. No. 1,150,964; Aug. 24; Gaz. vol. 217; p. 1100.
- Phelps, Sebring L., Buchanan, Mich. Electric heater. No. 1,153,703; Sept. 14; Gaz. vol. 218; p. 513.
- Phelps, Spencer H., Evansville, Ind. Disk jointer. No. 1,162,645; Nov. 30; Gaz. vol. 220; p. 1660.
- Phelps, Spencer H., assignor of one-half to C. F. Schroeder and one-half to L. E. Fricke, Evansville, Ind. Colter. No. 1,149,945; Aug. 10; Gaz. vol. 217; p. 625.
- Phelps, Talbert H., Chicago, Ill. Asphalt-heater. No. 1,150,383; Aug. 17; Gaz. vol. 217; p. 842.
- Phelps, Walter J., Baltimore, Md., assignor to Phelps Can Company, Weirton, W. Va. Automatic weighing-machine. No. 1,139,070; May 11; Gaz. vol. 214; p. 513.
- Phelps, Wendell H., Columbus, Ohio. Fence-post. No. 1,124,511; Jan. 12; Gaz. vol. 210; p. 501.
- Phenix, Leroy C., Los Angeles, Cal. Davenport. No. 1,142,053; June 8; Gaz. vol. 215; p. 376.
- Phifer, James S., Allentown, Pa., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Nail-keel-packing machine. No. 1,163,107; Dec. 7; Gaz. vol. 221; p. 130.
- Phifer, Washington I., Collinsville, Ill. Valve of internal-combustion engines. No. 1,156,309; Oct. 12; Gaz. vol. 219; p. 365.
- Phifer, Washington I., Collinsville, Ill., assignor of twenty one-hundredths to P. P. Stone, Des Moines, Iowa. Mechanical movement. No. 1,134,155; Apr. 6; Gaz. vol. 213; p. 25.
- Philadelphia Drying Machinery Company, The. (See Allsop and Sibson, assignors.)
- Philadelphia Drying Machinery Company, The. (See Parkes, Bertrand A., assignor.)
- Philadelphia Drying Machinery Company, The. (See Sibson, Walter W., assignor.)
- Philadelphia Drying Machinery Company, The. (See Sibson and Parkes, assignors.)
- Philadelphia Gear Works. (See Garrard, Eugene A., assignor.)
- Philadelphia Holding Company. (See Stevenson, William H., assignor.)
- Philadelphia Pile Fabric Mills. (See Steiner, Richard J., assignor.)
- Philadelphia Quartz Company. (See Stanton and Vail, assignors.)
- Philadelphia Roll and Machine Company. (See Crook, Alfred, assignor.)
- Philadelphia Sash Weight Works. (See Fox, George J., assignor.)
- Philadelphia Steel & Wire Co. (See Boyer, Murray C., assignor.)
- Philadelphia Steel & Wire Co. (See Dale, George E., assignor.)
- Philadelphia Steel & Wire Co. (See Dale and Tucker, assignors.)
- Philadelphia Steel & Wire Co. (See Wedmore, Daniel A., assignor.)
- Philadelphia Storage Battery Company. (See Skinner, James M., assignor.)
- Philadelphia Textile Machinery Company, The. (See Ayres, Elwood B., assignor.)
- Philadelphia Textile Machinery Company, The. (See Coulston, Harry, assignor.)
- Philadelphia Textile Machinery Company, The. (See Coulston and Schwartz, assignors.)
- Philadelphia Textile Machinery Company, The. (See Rihl and Ayres, assignors.)
- Philbrook, Horace W., et al., administrators. (See Loudon and Gow.)
- Philip Carey Manufacturing Company, The. (See Moeller, William J., assignor.)
- Philipp Forscherler Wagon and Manufacturing Company. (See Forscherler, Philipp, assignor.)
- Philipp, Herbert. (See Foersterling and Philipp.)
- Philipp, Richard, Hmenau, Germany. Crushing or dividing metal shavings or the like. No. 1,133,181; Mar. 23; Gaz. vol. 212; p. 1303.
- Philipp Räder-Bruno Raabe, A. G. (See Pum and Glaesner, assignors.)
- Philipp, William E., Baltimore, Md. Machine for painting tin and other metals. No. 1,141,209; June 1; Gaz. vol. 215; p. 42.
- Philipp, William E., Baltimore, Md. Machine for uniting metal roofing-sheets. No. 1,158,274; Oct. 26; Gaz. vol. 219; p. 1149.
- Philippi, Theodore F., East St. Louis, Ill. Belt-tightener. No. 1,125,880; Jan. 19; Gaz. vol. 210; p. 1024.
- Philippi, Theodore F., East St. Louis, Ill. Crusher. No. 1,131,002; Mar. 9; Gaz. vol. 212; p. 437.
- Philippssen, Asmus, assignor to The Hawthorne Manufacturing Company, Inc., Bridgeport, Conn. Dispensing apparatus. No. 1,151,532; Aug. 24; Gaz. vol. 217; p. 1293.
- Phillips, Herman B., assignor to R. S. Phillips, New York, N. Y. Therapeutic apparatus. No. 1,155,271; Sept. 28; Gaz. vol. 218; p. 1112.
- Phillips, Ralph S. (See Phillips, Herman B., assignor.)
- Phillips, Smith F., El Paso, Tex. Switch-stand. No. 1,154,428; Sept. 21; Gaz. vol. 218; p. 797.
- Phillippar, Gustave F. (See Desselle and Phillippar.)
- Phillips, Albert C. (See Kingsley, William, assignor.)
- Phillips, Andrew, Conemaugh, Pa. Reversible rotary steam-engine. No. 1,142,726; June 8; Gaz. vol. 215; p. 609.
- Phillips, Arthur. (See Phillips, Henry J. and A.)
- Phillips, Arthur W., Portersville, Cal. Trail-grader. No. 1,132,487; Mar. 16; Gaz. vol. 212; p. 1000.
- Phillips, Benjamin B., Greensboro, N. C., and C. W. Evans, Norfolk, Va. Earth-auger. No. 1,140,607; May 25; Gaz. vol. 214; p. 1124.
- Phillips, Benjamin H. (See Phillips, Robert S. and B. H.)
- Phillips, Charles O., Detroit, Mich. Knob-fastener. No. 1,161,521; Nov. 23; Gaz. vol. 220; p. 1229.
- Phillips, Darius T., Chicago, Ill. Derrick. No. 1,143,314; June 15; Gaz. vol. 215; p. 858.
- Phillips, Darius T., Chicago, Ill. Toy. No. 1,153,250; Sept. 14; Gaz. vol. 218; p. 350.
- Phillips, E. Helen. (See Parker, Harlow D., assignor.)
- Phillips, Edwin S. (See Brinton, William C., Jr., assignor.)
- Phillips, Eli W., Dorchester, assignor to American Tool & Machine Company, Boston, Mass. Centrifugal machine for washing waste and other material. No. 1,146,445; July 13; Gaz. vol. 216; p. 536.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Door-bolt. No. 1,150,450; Aug. 17; Gaz. vol. 217; p. 864.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for slidably supporting folding doors. No. 1,160,198; Nov. 16; Gaz. vol. 220; p. 714.
- Phillips, Emry E., West Frankfort, Ill. Freezer. No. 1,155,680; Oct. 5; Gaz. vol. 219; p. 124.
- Phillips, Francis V., Orlando, Fla. Shock-absorber. No. 1,134,223; Apr. 6; Gaz. vol. 213; p. 51.
- Phillips, Francis V., Orlando, Fla. Shock-absorber. No. 1,134,224; Apr. 6; Gaz. vol. 213; p. 52.
- Phillips, Francis V., Orlando, Fla. Shock-absorber for vehicles. No. 1,140,478; May 25; Gaz. vol. 214; p. 1079.
- Phillips, Francis V., Orlando, Fla. Fishing-reel. No. 1,140,608; May 25; Gaz. vol. 214; p. 1125.
- Phillips, Frank R. (See Jones, Phillips, and Welsh.)
- Phillips, Frederick. (See Bates and Phillips.)
- Phillips, Frederick F., Flushing, N. Y., assignor to The Hartford Rubber Works Company, Hartford, Conn. Holding device for vehicle-tires. No. 1,137,350; Apr. 27; Gaz. vol. 213; p. 1282.
- Phillips, George L., Rochester, N. Y. Rod-packing. No. 1,142,980; June 15; Gaz. vol. 215; p. 740.
- Phillips, Gerald A., Berkswell, Coventry, England. Means for making iron molds for casting metallic bedsteads and like articles. No. 1,162,876; Dec. 7; Gaz. vol. 221; p. 50.
- Phillips, Harry, Randfontein, Transvaal, South Africa. Carton for cigarettes and the like. No. 1,126,269; Jan. 26; Gaz. vol. 210; p. 1199.
- Phillips, Helene H., Westchester county, N. Y. Tooth-brush. No. 1,131,863; Mar. 16; Gaz. vol. 212; p. 774.
- Phillips, Henry J., London, and A. Phillips, Tredegar, England, assignors to Pure Coal Briquettes Limited, Cardiff, Wales. Manufacture of coal briquets. No. 1,149,536; Aug. 10; Gaz. vol. 217; p. 476.
- Phillips, Henry J., London, and A. Phillips, county of Monmouth, England, assignors to Pure Coal Briquettes Limited, Cardiff, Wales. Press. No. 1,149,537; Aug. 10; Gaz. vol. 217; p. 477.
- Phillips, Herman A. (See Spanovic, Ninko, assignor.)
- Phillips, James J., Brookhaven, Miss. Conveyor. No. 1,128,898; Feb. 16; Gaz. vol. 211; p. 871.
- Phillips, James J., Brookhaven, Miss. Screening apparatus. No. 1,137,526; Apr. 27; Gaz. vol. 213; p. 1343.
- Phillips, James K. (See Cornell, William N., assignor.)
- Phillips, John E. (See Park and Phillips.)
- Phillips, Joseph L. (See Ford and Phillips.)
- Phillips, Marcus, Chicago, Ill. Catamaran. No. 1,130,627; Mar. 2; Gaz. vol. 212; p. 275.
- Phillips, Nathan C., assignor to Russia Cement Company, Gloucester, Mass. Plug for glue and paste tubes. No. 1,152,545; Sept. 7; Gaz. vol. 218; p. 61.
- Phillips, Nathan C., assignor to Russia Cement Company, Gloucester, Mass. Ink-bottle. No. 1,152,546; Sept. 7; Gaz. vol. 218; p. 62.
- Phillips' Patent Limited. (See Hedgecock, William C. H. P. and F. A., assignors.)
- Phillips, Paul M., Westboro, Mass. Milk-tester. No. 1,158,275; Oct. 26; Gaz. vol. 219; p. 1149.
- Phillips, Rae W., Los Angeles, Cal. Pneumatically-controlled multiple-spindle tapping and drilling apparatus. No. 1,124,167; Jan. 5; Gaz. vol. 210; p. 330.

- Phillips, Robert B., Dublin, N. C. Elevated carrier. No. 1,144,060; June 22; Gaz. vol. 215; p. 1140.
- Phillips, Robert S. and B. H., Riverside, N. J. Stocking. No. 1,123,587; Jan. 5; Gaz. vol. 210; p. 133.
- Phillips, Robert S. and B. H., assignors to H. Taubel & Son, Riverside, N. J. Yarn-feeding device for knitting machines. No. 1,137,527; Apr. 27; Gaz. vol. 213; p. 1343.
- Phillips, Ross M. G., West Haven, Conn. Automatic liquid-fuel cooking apparatus. No. 1,150,620; Aug. 17; Gaz. vol. 217; p. 924.
- Phillips, Ross M. G., West Haven, Conn. Cooking apparatus. No. 1,161,522; Nov. 23; Gaz. vol. 220; p. 1229.
- Phillips, Ross M. G., West Haven, Conn. Automatic cooking apparatus. No. 1,161,523; Nov. 23; Gaz. vol. 220; p. 1230.
- Phillips, Ross M. G., West Haven, Conn. Liquid-fuel burner. No. 1,161,524; Nov. 23; Gaz. vol. 220; p. 1230.
- Phillips, Ross M. G., West Haven, Conn. Automatic cooking apparatus. No. 1,161,525; Nov. 23; Gaz. vol. 220; p. 1231.
- Phillips, Ross M. G., West Haven, Conn. Automatic-cooking-apparatus cooking-compartment. No. 1,166,001; Dec. 28; Gaz. vol. 221; p. 1266.
- Phillips, Ross M. G., West Haven, assignor to The Sentinel Automatic Gas Appliance Co., New Haven, Conn. Gas-cock. No. 1,152,213; Aug. 31; Gaz. vol. 217; p. 1574.
- Phillips, Ross M. G., West Haven, assignor to The Sentinel Mfg. Co., New Haven, Conn. Blow-torch. No. 1,152,214; Aug. 31; Gaz. vol. 217; p. 1575.
- Phillips, Samuel B. (See Engle and Phillips.)
- Phillips, Stanley A., Chicago, Ill. Internal-combustion engine. No. 1,131,266; Mar. 9; Gaz. vol. 212; p. 528.
- Phillips, Steve L., Monessen, Pa. Shutter-operating device. No. 1,161,331; Nov. 23; Gaz. vol. 220; p. 1162.
- Phillips, Thomas S., Milwaukee, Wis. Non-refillable bottle. No. 1,164,014; Dec. 14; Gaz. vol. 221; p. 493.
- Phillips, Walter L., Oakland, Cal. Automatic liquid-soap dispenser. No. 1,147,185; July 20; Gaz. vol. 216; p. 812.
- Phillips, William, Swansea, Wales. Treating cobalt-silver ores. No. 1,127,506; Feb. 9; Gaz. vol. 211; p. 336.
- Phillips, William H., Fairmont, N. D. Flue-stub extractor. No. 1,151,712; Aug. 31; Gaz. vol. 217; p. 1400.
- Phillips, William R., Trenton, N. J. Tent. No. 1,127,087; Feb. 2; Gaz. vol. 211; p. 149.
- Phillips, William T. and T. C. De Lisle, Los Angeles, Cal. Display device. No. 1,157,252; Oct. 19; Gaz. vol. 219; p. 730.
- Phillips, William W. (See McCawley and Phillips.)
- Phillips, William W., St. Louis, assignor to Buffum Tool Company, Louisiana, Mo. Type-writing machine. No. 1,142,363; June 8; Gaz. vol. 215; p. 486.
- Phillipson, Jacob, Chicago, Ill. Combination coat and vest. No. 1,135,205; Apr. 13; Gaz. vol. 213; p. 443.
- Phinney, Charles H., assignor to C. O. Willis, Richmond, Va. Machine for cutting and crimping cylinders of sheet metal. No. 1,130,677; Mar. 2; Gaz. vol. 212; p. 292.
- Phinney, Henry I. (See Farmer, William H., assignor.)
- Phinney, Warren N., Boston, Mass. Composite electric signaling system. No. 1,138,013; May 4; Gaz. vol. 214; p. 101.
- Phinny, Jennie, *et al.* (See Suggs, James A., assignor.)
- Phippen, Arthur W., Methuen, Mass. Roofing. No. 1,137,895; May 4; Gaz. vol. 214; p. 59.
- Phippen, Arthur W., Methuen, Mass. Roof-covering. No. 1,163,034; Dec. 7; Gaz. vol. 221; p. 105.
- Phipps, Isaac N., assignor of one-half to C. B. Amyx, Chanute, Kans. Egg carton or case. No. 1,150,384; Aug. 17; Gaz. vol. 217; p. 842.
- Phipps, William T., assignor of one-half to C. M. Kimbley, Owensboro, Ky. Ditching and grading machine. No. 1,166,251; Dec. 28; Gaz. vol. 221; p. 1359.
- Phoenix Hermetic Company. (See Weissenthaner, Alfred L., assignor.)
- Phoenix Horse Shoe Company. (See Boone, Enoch, assignor.)
- Phoenix Iron Works Company. (See Dick, John, assignor.)
- Phonoharp Company, The. (See Marx, Henry C., assignor.)
- Phonebarger, Robert P. (See Byram and Phonebarger.)
- Phyfe, Benjamin P. (See Phyfe, Llewellyn H., assignor.)
- Phyfe, Llewellyn H., Tailman, N. Y., assignor to B. P. Phyfe, Hawthorn, N. J. Toy. No. 1,144,723; June 29; Gaz. vol. 215; p. 1399.
- Piaggio, Rinaldo, Genoa, Italy. Tank-brace. No. 1,123,366; Jan. 5; Gaz. vol. 210; p. 59.
- Picard, Albert C. (See Milne, Russell A., assignor.)
- Picard, Charles, Champigny-sur-Marne, assignor to Acétylène Dissous & Applications de L'acétylène, Paris, France. Storing acetylene. No. 1,148,925; Aug. 3; Gaz. vol. 217; p. 156.
- Picarde Importing Company, The. (See Abegg, Julius, assignor.)
- Pichl, Anton J. (See Koken and Pichl.)
- Pichoud, Jean, New York, N. Y. Vehicle-spring gear. No. 1,147,439; July 20; Gaz. vol. 216; p. 904.
- Pick, Alfred. (See Breitung and Pick.)
- Pick, Alfred, assignor, by mesne assignments, to The Van Dorn Electric Tool Company, Cleveland, Ohio. Electro-magnetic circuit-closing and circuit-breaking device. No. 1,146,734; July 13; Gaz. vol. 216; p. 635.
- Pick, Samuel. (See Taylor, Isaac F., assignor.)
- Pick, Samuel. (See Taylor and Pick.)
- Pick, Thomas P., Chicago, Ill. Fruit, salad, and dessert dish. No. 1,123,793; Jan. 5; Gaz. vol. 210; p. 204.
- Pickard, Ada E., *et al.* (See Byron, Hagar B., assignor.)
- Pickard, Greenleaf W., Amesbury, Mass. Solid rectifier for feeble electric currents. No. 1,137,714; Apr. 27; Gaz. vol. 213; p. 1403.
- Pickard, Greenleaf W., Amesbury, Mass. Radio telegraphy and telephony receiver. No. 1,144,969; June 29; Gaz. vol. 215; p. 1482.
- Pickard, Greenleaf W., Amesbury, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Apparatus for radio communication. No. 1,127,921; Feb. 9; Gaz. vol. 211; p. 481.
- Pickard, Greenleaf W., Amesbury, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Valve-detector for wireless. No. 1,128,817; Feb. 16; Gaz. vol. 211; p. 842.
- Pickard, Greenleaf W., Amesbury, Mass., assignor to Wireless Specialty Apparatus Company, New York, N. Y. Oscillation-receiving device. No. 1,136,044; Apr. 20; Gaz. vol. 213; p. 777.
- Pickard, Greenleaf W., Amesbury, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Oscillation-receiving device. No. 1,136,045; Apr. 20; Gaz. vol. 213; p. 777.
- Pickard, Greenleaf W., Amesbury, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Oscillation-receiving device. No. 1,136,046; Apr. 20; Gaz. vol. 213; p. 777.
- Pickard, Greenleaf W., Amesbury, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Oscillation-receiving device. No. 1,136,047; Apr. 20; Gaz. vol. 213; p. 777.
- Pickard, Greenleaf W., Amesbury, Mass., assignor to Wireless Specialty Apparatus Company, New York, N. Y. Wireless receiving improvement. No. 1,156,625; Oct. 12; Gaz. vol. 219; p. 478.
- Pickard, Harry E., Tonawanda, N. Y. Ice-cream-carton holder and filler. No. 1,159,990; Nov. 9; Gaz. vol. 220; p. 589.
- Pickens, Myron W., *et al.* (See Kempff and Smith, assignors.)
- Pickens, Robert F., St. Louis, Mo. Subscriber's auto-switching system for intercommunicating telephones. No. 1,152,968; Sept. 7; Gaz. vol. 218; p. 216.
- Pickering, Henry M., Portland, Oreg. Composition for preventing the accumulation of moisture of condensation upon glass or other protected surfaces. No. 1,123,367; Jan. 5; Gaz. vol. 210; p. 59.
- Pickering, Josiah, Schenectady, N. Y. Sliding-door fastener. No. 1,134,004; Mar. 30; Gaz. vol. 212; p. 1626.
- Pickett, Edward, Indianapolis, Ind. Clamp for bias-cutting machines. No. 1,162,727; Nov. 30; Gaz. vol. 220; p. 1688.
- Pickett, Frederick A., Baltimore, Md. Automatic gas shut-off. No. 1,132,115; Mar. 16; Gaz. vol. 212; p. 863.
- Pickett, H. E. (See Kelley, Charles, assignor.)
- Pickett, John H. (See Fulcher and Pickett.)
- Pickett, Lafayette E., St. Louis, Mo. Resilient tire. No. 1,143,994; June 22; Gaz. vol. 215; p. 1117.
- Pickett, William N., Richmond, Cal. Target-carrier. No. 1,160,753; Nov. 16; Gaz. vol. 220; p. 912.
- Pickford, James, Oldham, England. Guard for self-acting mules and twiners. No. 1,144,500; June 29; Gaz. vol. 215; p. 1322.
- Pickles, Charles K., assignor to P. David & Company, San Francisco, Cal. Manhole-cover. No. 1,131,078; Mar. 9; Gaz. vol. 212; p. 463.
- Pickriell, John N. (See Michaelsen, Claus P., assignor.)
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Core-making apparatus. No. 1,143,861; June 22; Gaz. vol. 215; p. 1070.
- Picotte, Lloyd A., assignor of one-half to I. J. Muma, Los Angeles, Cal. Guard-finger for mowing and reaping machines. No. 1,130,330; Mar. 2; Gaz. vol. 212; p. 169.
- Pictet, Raoul F., Walsall, England. Manufacture of furnace tubes or chambers. No. 1,130,533; Mar. 2; Gaz. vol. 212; p. 244.
- Pictet, Raoul P., Wilmersdorf, near Berlin, Germany. Making hydrogen. No. 1,134,416; Apr. 6; Gaz. vol. 213; p. 120.
- Pidgeon, Clifford H., and J. R. M. Boyd, Columbus, Ohio; said Boyd assignor to said Pidgeon. Cultivator. No. 1,159,532; Nov. 9; Gaz. vol. 220; p. 423.
- Pidgeon, Thomas L., St. Barnabe, Quebec, Canada. Burglar-alarm bolt. No. 1,156,809; Oct. 12; Gaz. vol. 219; p. 540.
- Piel, Gottfried. (See Halterbeck, John, assignor.)
- Piel, Herman G., Indianapolis, Ind. Envelop. No. 1,136,713; Apr. 20; Gaz. vol. 213; p. 1015.
- Pielock, Eduard, Berlin, Germany. Steam-generator. No. 1,129,600; Feb. 23; Gaz. vol. 211; p. 1154.
- Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
- Pieper, Chester R., La Crosse, Wis. Earth-anchor. No. 1,123,368; Jan. 5; Gaz. vol. 210; p. 59.

Alphabetical list of patentees—Continued.

- Pieper, Henri, Liege, Belgium. Driving of vehicles and locomotives. No. 1,129,227; Feb. 23; Gaz. vol. 211; p. 1021.
- Pieper, Henri, Liege, Belgium. Apparatus for controlling motor-vehicles driven by mixed power. No. 1,140,849; May 25; Gaz. vol. 214; p. 1206.
- Pieper, Louis H., Plymouth, Wis. Cheese-follower. No. 1,158,276; Oct. 26; Gaz. vol. 219; p. 1150.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Adjustable chair. No. 1,137,080; Apr. 27; Gaz. vol. 213; p. 1182.
- Pier, Mathias, Berlin, Germany. Manufacture of ammonia from its elements. No. 1,157,253; Oct. 19; Gaz. vol. 219; p. 731.
- Pier, Mathias, Zehlendorf, near Berlin, Germany. Apparatus for effecting reactions of hydrogen under pressure. No. 1,159,865; Nov. 9; Gaz. vol. 220; p. 545.
- Pierce, Adin G., New York, N. Y. Centering or scaffolding. No. 1,136,714; Apr. 20; Gaz. vol. 213; p. 1015.
- Pierce, Alfred L., Wallingford, Conn. Cut-out box. No. 1,132,116; Mar. 16; Gaz. vol. 212; p. 864.
- Pierce, Alva C., and G. C. Kaufman, La Fayette, Ind. Jordan shaft for paper-stock-refining engines. No. 1,158,277; Oct. 26; Gaz. vol. 219; p. 1150.
- Pierce, Alvin Z., Woodhull, N. Y. Detachable post-base. No. 1,131,864; Mar. 16; Gaz. vol. 212; p. 774.
- Pierce, Alvin Z., Woodhull, N. Y. Mold for cement and concrete posts. No. 1,146,949; July 20; Gaz. vol. 216; p. 731.
- Pierce-Arrow Motor Car Company, The. (See Sheppy, Charles L., assignor.)
- Pierce-Arrow Motor Car Company, The. (See Younger, John, assignor.)
- Pierce, Blanche S., Grand Rapids, Mich. Service-cover for milk-bottles, jars, &c. No. 1,132,615; Mar. 23; Gaz. vol. 212; p. 1095.
- Pierce, Byron W., Appleton, Wis. Rotary igniter. No. 1,130,628; Mar. 2; Gaz. vol. 212; p. 275.
- Pierce, Charles E., Cambridge, Mass. Incandescent lamp. No. 1,131,079; Mar. 9; Gaz. vol. 212; p. 463.
- Pierce, Charles E., Cambridge, Mass. Baking-pan. No. 1,139,445; May 11; Gaz. vol. 214; p. 644.
- Pierce, Curtis, Giltner, Nebr. Life-boat. No. 1,150,881; Aug. 24; Gaz. vol. 217; p. 1072.
- Pierce, Edward W., Cynwyd, Pa., assignor of one-half to J. W. Starr, 3d, Atlantic City, N. J. Ampul. No. 1,139,368; May 11; Gaz. vol. 214; p. 616.
- Pierce, Frank, assignor to Lincoln Iron Works, Rutland, Vt. Feed-driving mechanism. No. 1,138,970; May 11; Gaz. vol. 214; p. 477.
- Pierce, Frank M. (See Pierce, William B. and F. M.)
- Pierce, Frank M., Chicago, Ill. Wrapping. No. 1,153,704; Sept. 14; Gaz. vol. 218; p. 513.
- Pierce, Frank M. and W. B., assignors to Pierce Wrapping Machine Company, Chicago, Ill. Machine for wrapping commercial coils of wire. No. 1,158,405; Oct. 26; Gaz. vol. 219; p. 1196.
- Pierce, Frank M. and W. B., assignors to Pierce Wrapping Machine Company, Chicago, Ill. Wrapping-machine. No. 1,158,406; Oct. 26; Gaz. vol. 219; p. 1196.
- Pierce, Franklin, and N. Theriault, Haverhill, Mass. Last. No. 1,140,850; May 25; Gaz. vol. 214; p. 1207.
- Pierce, Fred H., Gordonsville, Minn. Bolt-tightener. No. 1,152,215; Aug. 31; Gaz. vol. 217; p. 1575.
- Pierce, George A., assignor to William Cramp & Sons Ship & Engine Building Company, Philadelphia, Pa. Distant control system for electric motors. No. 1,133,663; Mar. 30; Gaz. vol. 212; p. 1512.
- Pierce, George F., Kansas City, Mo., assignor to R. A. Pierce, Chicago, Ill. Furnace-grate. No. 1,163,259; Dec. 7; Gaz. vol. 221; p. 184.
- Pierce, George L., Brooklyn, N. Y., assignor to A. G. Spalding & Bros. Mfg. Co., Jersey City, N. J. Bathing shoe or slipper. No. 1,150,702; Aug. 17; Gaz. vol. 217; p. 952.
- Pierce, George L., Brooklyn, N. Y., assignor to A. G. Spalding & Bros. Mfg. Co., Jersey City, N. J. Flexible shoe. No. 1,161,332; Nov. 23; Gaz. vol. 220; p. 1162.
- Pierce, George L., and A. K. Petterson, Brooklyn, N. Y., assignors to A. G. Spalding & Bros. Manuf. Co., Jersey City, N. J. Flexible shoe. No. 1,163,848; Dec. 14; Gaz. vol. 221; p. 436.
- Pierce, George W., Cambridge, Mass. Apparatus for amplifying or detecting electrical variations. No. 1,127,371; Feb. 2; Gaz. vol. 211; p. 245.
- Pierce, George W., assignor to The Pierce Speed Controller Company, Anderson, Ind. Speed-limiting apparatus for motor-vehicles. No. 1,140,060; May 18; Gaz. vol. 214; p. 897.
- Pierce, Harold S., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Means for lubricating bearings. No. 1,138,408; May 4; Gaz. vol. 214; p. 243.
- Pierce, Harold S., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Equalizing-wheel for chain or rope drives. No. 1,148,190; July 27; Gaz. vol. 216; p. 1195.
- Pierce, Harold S., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Means for lubricating chain drives. No. 1,161,724; Nov. 23; Gaz. vol. 220; p. 1297.
- Pierce, Harry W., Waverley, Mass. Fountain-pen. No. 1,155,611; Oct. 5; Gaz. vol. 219; p. 99.
- Pierce, Howard C., Worcester, Mass. Poultry-picking frame. No. 1,155,004; Sept. 28; Gaz. vol. 218; p. 1021.
- Pierce, J. A. (See White, John J., assignor.)
- Pierce, James E., assignor to The Union Steel Screen Company, Albion, Mich. Fastening device. No. 1,157,039; Oct. 19; Gaz. vol. 219; p. 654.
- Pierce, Joseph, assignor to American Cycle Car Company, Philadelphia, Pa. Internal-combustion engine. No. 1,124,512; Jan. 12; Gaz. vol. 210; p. 502.
- Pierce, Joseph, assignor to The American Cycle Car Company, Philadelphia, Pa. Internal-combustion engine. No. 1,162,187; Nov. 30; Gaz. vol. 220; p. 1507.
- Pierce, Joseph H., Chicago, Ill. Feeding mechanism for corn-huskers. No. 1,160,088; Nov. 9; Gaz. vol. 220; p. 621.
- Pierce, Leon, New York, N. Y. Power-hammer. No. 1,158,839; Nov. 2; Gaz. vol. 220; p. 151.
- Pierce, Paul P., Castile, N. Y. Soap-holder. No. 1,146,275; July 13; Gaz. vol. 216; p. 475.
- Pierce, Percy E., Altoona, Pa. Carbon-copy attachment for type-writing machines. No. 1,149,855; Aug. 10; Gaz. vol. 217; p. 593.
- Pierce, Robert E., St. Louis, and E. A. Reed, Maplewood, Mo. Take-up mechanism. No. 1,158,840; Nov. 2; Gaz. vol. 220; p. 152.
- Pierce, Rose A. (See Pierce, George F., assignor.)
- Pierce, Simeon F., St. Paul, Minn. Generator. No. 1,130,842; Mar. 9; Gaz. vol. 212; p. 383.
- Pierce, Simeon F., St. Paul, Minn. Liquid-hydrocarbon generator. No. 1,135,136; Apr. 13; Gaz. vol. 213; p. 420.
- Pierce, Simeon F., assignor to Cream Cone Machine Company, St. Paul, Minn. Cooking device. No. 1,136,261; Apr. 20; Gaz. vol. 213; p. 853.
- Pierce Speed Controller Company, The. (See Emmanuel, Benjamin D., assignor.)
- Pierce Speed Controller Company, The. (See Pierce, George W., assignor.)
- Pierce, William B. (See Pierce, Frank M. and W. B.)
- Pierce, William B. and F. M., assignors to Pierce Wrapping Machine Company, Chicago, Ill. Wrapping-machine. No. 1,153,278; Oct. 26; Gaz. vol. 219; p. 1150.
- Pierce, William L., assignor of one-fifth to M. Grundfast, New York, N. Y. Plot-cutting attachment for sewing-machines. No. 1,154,337; Sept. 21; Gaz. vol. 218; p. 766.
- Pierce, William S., Franklin, Pa. Washing apparatus. No. 1,153,823; Sept. 14; Gaz. vol. 218; p. 555.
- Pierce, William S., Franklin, Pa. Pipe-coupling. No. 1,153,824; Sept. 14; Gaz. vol. 218; p. 555.
- Pierce Wrapping Machine Company. (See Pierce, Frank M. and W. B., assignors.)
- Pierce Wrapping Machine Company. (See Pierce, William B. and F. M., assignors.)
- Piercy, Robert A. A. S., Scrubwood, Wendover, England. Staging or support for submarine operations. No. 1,127,507; Feb. 9; Gaz. vol. 211; p. 337.
- Piercy, Robert A. A. S., Scrubwood, Wendover, England. Staging or support for submarine operations. No. 1,128,039; Feb. 9; Gaz. vol. 211; p. 523.
- Piercy, Robert A. A. S., Scrubwood, Wendover, England. Staging for subaqueous operations. No. 1,128,040; Feb. 9; Gaz. vol. 211; p. 524.
- Pierini, Humbert, Redleaf, Ark. Mouse-trap. No. 1,126,563; Jan. 26; Gaz. vol. 210; p. 1306.
- Pierman, Alexander N., Newark, N. J. Warning-signal. No. 1,135,048; Apr. 13; Gaz. vol. 213; p. 390.
- Pierman, Alexander N., Newark, assignor to New Jersey Patent Company, West Orange, N. J. Sound-reproducer. No. 1,145,080; July 6; Gaz. vol. 216; p. 39.
- Pierman, Alexander N., Newark, assignor to New Jersey Patent Company, West Orange, N. J. Sound-reproducer. No. 1,148,619; Aug. 3; Gaz. vol. 217; p. 49.
- Pierman, Alexander N., Newark, assignor of one-fourth to F. L. Dyer, Montclair, N. J., and one-fourth to L. H. Dyer, Greenwich, Conn. Photographic camera. No. 1,124,313; Jan. 12; Gaz. vol. 210; p. 430.
- Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix gaging and sorting machine. No. 1,149,284; Aug. 10; Gaz. vol. 217; p. 387.
- Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Pump for type-casting machines. No. 1,149,285; Aug. 10; Gaz. vol. 217; p. 387.
- Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Type casting and composing machine. No. 1,149,286; Aug. 10; Gaz. vol. 217; p. 388.
- Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Gaging and sorting mechanism. No. 1,149,287; Aug. 10; Gaz. vol. 217; p. 388.
- Pierpont, Frank H., Salfords, Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Machine for the production of type-matrices or similar bodies. No. 1,149,538; Aug. 10; Gaz. vol. 217; p. 477.
- Piersen, Edwin H., assignor to The Piersen Telegraph Transmitter Company, Topeka, Kans. Telegraph-transmitter. No. 1,157,040; Oct. 19; Gaz. vol. 219; p. 654.

- Piersen Telegraph Transmitter Company, The. (See Piersen, Edwin H., assignor.)
- Pierson, Edwin W., Newark, N. J., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,228; Feb. 23; Gaz. vol. 211; p. 1021.
- Pierson, Edwin W., Newark, N. J., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,129,601; Feb. 23; Gaz. vol. 211; p. 1154.
- Pierson, Elias. (See Hardisty, Henry, assignor.)
- Pierson, Frank S., New York, N. Y. Aerial toy. No. 1,144,914; June 29; Gaz. vol. 215; p. 1463.
- Pierson, Paul, Chicago, Ill. Pasting-machine. No. 1,128,501; Feb. 16; Gaz. vol. 211; p. 732.
- Pierson, Paul, Chicago, Ill. Machine for applying bands to cigars. No. 1,132,209; Mar. 16; Gaz. vol. 212; p. 898.
- Pierson, Paul M. (See Hochstetter, Frederick W., assignor.)
- Pierson, Willard J., and H. W. Lynch, Wilmington, Del. Locking mechanism for revolving gates. No. 1,131,546; Mar. 9; Gaz. vol. 212; p. 625.
- Pierson, Willett C., Cleveland, Ohio. Composition for match-heads. No. 1,138,146; May 4; Gaz. vol. 214; p. 150.
- Pieser, Isaac, *et al.* (See Redd, Charlie, assignor.)
- Pieser, Isaac, and C. G. Livingston, Chicago, Ill. Cereal food product. No. 1,155,093; Sept. 28; Gaz. vol. 218; p. 1055.
- Piessens, Henry, Philadelphia, Pa. Arch or instep supporter. No. 1,153,441; Sept. 14; Gaz. vol. 218; p. 420.
- Pietrusza, Frank, Arnold City, Pa. Rail-joint. No. 1,154,882; Sept. 28; Gaz. vol. 218; p. 979.
- Pietsch, James A., New York, N. Y. Automatic feeder for mills, crushers, shredders, and the like. No. 1,131,414; Mar. 9; Gaz. vol. 212; p. 580.
- Pietsch, Louis W., Post Falls, Idaho. Smoke-eliminating and draft apparatus for furnaces. No. 1,124,513; Jan. 12; Gaz. vol. 210; p. 502.
- Pietsch, Louis W., Post Falls, Idaho. Smoke-conducting pipe. No. 1,131,159; Mar. 9; Gaz. vol. 212; p. 490.
- Pietzsch, Richard H., and R. P. Nichols, Philadelphia, Pa. Kinetographic apparatus. No. 1,164,859; Dec. 21; Gaz. vol. 221; p. 829.
- Pigott, Leo F., Cherokee, Iowa. Fluid-operated valve. No. 1,145,791; July 6; Gaz. vol. 216; p. 285.
- Pihlblad, Charles F., Jersey City, N. J. Shock-absorber. No. 1,123,794; Jan. 5; Gaz. vol. 210; p. 204.
- Pike, Charles F. (See Bradley and Pike.)
- Pike, Frederic J., Beckenham, and H. Neville, Forest Hill, assignors to J. Stone and Company, Limited, Deptford, England. By-pass valve for hydraulic door-operating systems. No. 1,147,542; July 20; Gaz. vol. 216; p. 938.
- Pike, George A. (See Le Mont, George, assignor.)
- Pike, Walter J., and R. J. Sutton, Grand Rapids, Mich. Electrochemical controlling apparatus. No. 1,145,509; July 6; Gaz. vol. 216; p. 186.
- Pike, William A., Pittsfield, Mass. Display-box for writing-paper. No. 1,140,061; May 18; Gaz. vol. 214; p. 898.
- Pike, William R., and T. S. Morton, Tuxedo Park, N. Y. Life-saving garment. No. 1,164,312; Dec. 14; Gaz. vol. 221; p. 597.
- Pikler, Armin H., Montclair, assignor to Crocker-Wheeler Company, Ampere, N. J. Transformer. No. 1,133,316; Mar. 30; Gaz. vol. 212; p. 1384.
- Pillain, François, Lyon, France. Two-stroke-cycle explosion-motor. No. 1,147,118; July 20; Gaz. vol. 216; p. 789.
- Pilant, Henry C., Oak Grove, Mo. Coin-receptacle for mail-boxes. No. 1,136,974; Apr. 27; Gaz. vol. 213; p. 1143.
- Pillarowski, Stephen, Detroit, Mich., assignor to American Can Company, New York, N. Y. Pouring-spout can. No. 1,154,205; Sept. 21; Gaz. vol. 218; p. 719.
- Pillblad, Eric J., and A. Tomlinson, assignors to Imperial Typewriter Company, Limited, Leicester, England. Feed-roller of type-writers. No. 1,153,567; Sept. 14; Gaz. vol. 218; p. 466.
- Pilcher, John A. (See Kadel, Pilcher, and Coddington.)
- Pilcher, John A., Roanoke, Va. Drifting attachment for locomotives. No. 1,132,030; Mar. 16; Gaz. vol. 212; p. 833.
- Pilcher, John A., Roanoke, Va. Truck-bolster for railway-cars. No. 1,147,748; July 27; Gaz. vol. 216; p. 1037.
- Pilcher, John A., Roanoke, Va. Six-wheel truck for railway-cars. No. 1,151,386; Aug. 24; Gaz. vol. 217; p. 1242.
- Pilcher, John A., Roanoke, Va. Brake arrangement for six-wheel car-trucks. No. 1,156,490; Oct. 12; Gaz. vol. 219; p. 431.
- Pilcher, John A., Roanoke, Va. Six-wheel truck for railway-cars. No. 1,165,206; Dec. 21; Gaz. vol. 221; p. 951.
- Pilcher, Walter F., assignor of one-half to H. A. Powell, Dothan, Ala. Swing. No. 1,136,262; Apr. 20; Gaz. vol. 213; p. 854.
- Pilkington, Alfred C., *et al.*, executors. (See Pilkington, William W.)
- Pilkington Brothers. (See Gregory, Victor H., assignor.)
- Pilkington Brothers. (See Pilkington, William W., assignor.)
- Pilkington, Herbert M., Arverne, assignor, by mesne assignments, to Lithotex Corporation, New York, N. Y. Step and repeat machine. No. 1,131,631; Mar. 9; Gaz. vol. 212; p. 655.
- Pilkington, Herbert M., Arverne, assignor, by mesne assignments, to Lithotex Corporation, New York, N. Y. Method of setting step and repeat machines. No. 1,131,632; Mar. 9; Gaz. vol. 212; p. 656.
- Pilkington, Herbert M., Arverne, assignor, by mesne assignments, to Lithotex Corporation, New York, N. Y. Forgery detection. No. 1,135,919; Apr. 13; Gaz. vol. 213; p. 691.
- Pilkington, John T., assignor of one-half to S. Lellman, Enderby, British Columbia, Canada. Portable clothes-reel. No. 1,128,899; Feb. 16; Gaz. vol. 211; p. 871.
- Pilkington, John T., assignor of one-third to P. H. Murphy, Enderby, British Columbia, Canada. Clothes-line support. No. 1,130,534; Mar. 2; Gaz. vol. 212; p. 244.
- Pilkington, Joseph H., Waterbury, Conn. Spring-slide. No. 1,126,855; Feb. 2; Gaz. vol. 211; p. 68.
- Pilkington, Joseph H., Waterbury, Conn. Suspender-buckle. No. 1,136,610; Apr. 20; Gaz. vol. 213; p. 978.
- Pilkington, Richard A., *et al.*, executors. (See Pilkington, William W.)
- Pilkington, Sarah L., *et al.*, executors. (See Pilkington, William W.)
- Pilkington, William R., Bamber Bridge, near Preston, England. Air or other fluid-pressure pump. No. 1,160,528; Nov. 16; Gaz. vol. 220; p. 829.
- Pilkington, William W., deceased, Prescott; S. L., R. A., and A. C. Pilkington, executors, assignors to Pilkington Brothers, Limited, St. Helens, England. Apparatus for drawing glass. No. 1,131,953; Mar. 16; Gaz. vol. 212; p. 804.
- Pilkington, William W., deceased, Prescott; S. L., R. A., and A. C. Pilkington, executors, assignors to Pilkington Brothers, Limited, St. Helens, England. Glass-furnace. No. 1,154,052; Sept. 21; Gaz. vol. 218; p. 668.
- Pilling, Charles J., Philadelphia, Pa. Apparatus for measuring and indicating blood-pressure. No. 1,153,251; Sept. 14; Gaz. vol. 218; p. 351.
- Pilling, Charles J., Lansdowne, Pa., and G. S. White, Los Angeles, Cal., assignors to George P. Pilling and Son Co., Philadelphia, Pa. Sphygmomanometer. No. 1,154,934; Sept. 28; Gaz. vol. 218; p. 998.
- Pilling, Henry, Chorlton-cum-Hardy, England. Reciprocating-piston engine. No. 1,153,133; Sept. 7; Gaz. vol. 218; p. 270.
- Pilling, John, Burnley, England. Speed-controller for carding-engine doffers. No. 1,132,878; Mar. 23; Gaz. vol. 212; p. 1192.
- Pillow, Podge, assignor to O. E. Word, Cornersville, Tenn. Plow attachment. No. 1,147,543; July 20; Gaz. vol. 216; p. 939.
- Pillsbury, Edwin S., St. Louis, Mo., assignor to Century Electric Company. Centrifugal circuit-changing device for electric motors. No. 1,130,017; Mar. 2; Gaz. vol. 212; p. 62.
- Pillsbury, Edwin S., assignor to Century Electric Company, St. Louis, Mo. Centrifugal circuit-changing device for electric motors. No. 1,157,179; Oct. 19; Gaz. vol. 219; p. 703.
- Pillsbury, Leonard O., Crocker, S. D. Mud-puller fastening. No. 1,164,747; Dec. 21; Gaz. vol. 221; p. 788.
- Pillsbury, Leonard O., Crocker, S. D. Quick-detachable mud-puller. No. 1,165,442; Dec. 28; Gaz. vol. 221; p. 1071.
- Pilser, Isaac, *et al.* (See Redd, Charlie, assignor.)
- Pinkney, Chauncey M., Boulder, Colo. Water-distributor. No. 1,127,508; Feb. 9; Gaz. vol. 211; p. 337.
- Pinkney, Thomas D. W., New York, N. Y. Fluid-power transmitter. No. 1,125,593; Jan. 19; Gaz. vol. 210; p. 922.
- Pincus, Walter. (See Hite, Charles E., assignor.)
- Pindstoffe, Anders A., Copenhagen, Denmark. Rotating bottling-machine. No. 1,127,922; Feb. 9; Gaz. vol. 211; p. 482.
- Pine, Arthur F., Castle Rock, Colo. Bolt cutter and holder. No. 1,136,263; Apr. 20; Gaz. vol. 213; p. 854.
- Pine, Clarence E., New York, N. Y. Scorer for auction-pinochle. No. 1,145,211; July 6; Gaz. vol. 216; p. 82.
- Pine, James K. P., assignor to United Shirt and Collar Company, Troy, N. Y. Shirt. No. 1,137,081; Apr. 27; Gaz. vol. 213; p. 1183.
- Pine, Wilber J., Oshkosh, Wis. Bed-bottom-fabric-assembling machine. No. 1,141,140; June 1; Gaz. vol. 215; p. 17.
- Pingree, Carroll L., *et al.* (See Simao, Antonio P., assignor.)
- Pingree, Claire H., Highland Park, Ill. Trunk-blinder. No. 1,158,841; Nov. 2; Gaz. vol. 220; p. 152.
- Pinkel, Daniel, assignor to D. Carl, Richmond, Mich. Power-driven sled. No. 1,158,407; Oct. 26; Gaz. vol. 219; p. 1197.
- Pinkerton, Edward E., Chicago, Ill. Box. No. 1,143,551; June 15; Gaz. vol. 215; p. 939.
- Pinkerton, Ervin W., Rochester, N. Y. Cover and spout for packages. No. 1,155,681; Oct. 5; Gaz. vol. 219; p. 124.
- Pinkham, Charles F., Boston, Mass. Clutch. No. 1,160,528; Nov. 16; Gaz. vol. 220; p. 830.
- Pinkney, Bryan D. (See Allison and Pinkney.)

Alphabetical list of patentees—Continued.

- Pinn, Joseph S., Neenah, Va. Beehive. No. 1,152,216; Aug. 31; Gaz. vol. 217; p. 1576.
- Pinnow, Fredrick F., assignor of one-half to L. W. Terry, Brodhead, Wis. Latch for swinging and sliding doors. No. 1,128,502; Feb. 16; Gaz. vol. 211; p. 733.
- Pinsuti, Giuseppe F., New York, N. Y. Non-refillable bottle. No. 1,139,446; May 11; Gaz. vol. 214; p. 644.
- Pinsuti, Giuseppe F., New York, N. Y. Bottle-stopper. No. 1,140,062; May 18; Gaz. vol. 214; p. 899.
- Pinsuti, Giuseppe F., New York, N. Y. Bottle-neck-connecting band. No. 1,162,877; Dec. 7; Gaz. vol. 221; p. 50.
- Pinter, Anton, South Bend, Ind. Life-boat. No. 1,149,217; Aug. 10; Gaz. vol. 217; p. 362.
- Pinto, Jacob C., assignor of one-half to H. Gilmour, San Jose, Cal. Adjustable support for motor-cycles and the like. No. 1,143,780; June 22; Gaz. vol. 215; p. 1042.
- Pinto, Joseph, Osceola Mills, Pa. Lock-nut. No. 1,138,409; May 4; Gaz. vol. 214; p. 243.
- Pioch, Frank J., San Francisco, Cal. Furnace. No. 1,150,451; Aug. 17; Gaz. vol. 217; p. 864.
- Pioneer Iron Works. (See Moore, Joseph H., Jr., assignor.)
- Pioneer Mercantile Company. (See Harris, Manse M., assignor.)
- Pioneer Suspender Company. (See Croasdale, John P., assignor.)
- Piontkowski, John, Cleveland, Ohio, assignor of three-eighths to S. Wasielewski, one-eighth to J. Yablonowski, and one-eighth to M. Grayek. Tire structure. No. 1,152,657; Sept. 7; Gaz. vol. 218; p. 102.
- Piotrowski, Mikolaj, Elmira Heights, N. Y. Window-catch. No. 1,148,334; July 27; Gaz. vol. 216; p. 1246.
- Pipe, Arthur E., and R. L. Lafever, Salt Lake City, Utah. Separator for attached or nested articles. No. 1,149,595; Aug. 10; Gaz. vol. 217; p. 497.
- Pipenhagen, Charles A., Chicago, Ill. Inset-trap. No. 1,139,717; May 18; Gaz. vol. 214; p. 776.
- Piper Cooling and Preserving Company. (See Piper, Herbert H., assignor.)
- Piper, Dorus H. (See Burson, Schuyler C., assignor.)
- Piper, Fred W., Waterville, Me. Safety-cock. No. 7,134,904; Apr. 6; Gaz. vol. 213; p. 293.
- Piper, Herbert H., assignor to Piper Cooling and Preserving Company, Jackson, Mo. Refrigerator. No. 1,128,503; Feb. 16; Gaz. vol. 211; p. 733.
- Piper, James J., Colorado Springs, Colo. Sanitary water-fountain. No. 1,149,856; Aug. 10; Gaz. vol. 217; p. 593.
- Piper, Joseph, Leland, Idaho. Bean-harvester. No. 1,124,059; Jan. 5; Gaz. vol. 210; p. 292.
- Piper, Myron H., Walpole, assignor to United Printing Machinery Company, Boston, Mass. Combing mechanism. No. 1,130,928; Mar. 9; Gaz. vol. 212; p. 413.
- Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Manufacturing rubber footwear. No. 1,158,389; Oct. 26; Gaz. vol. 219; p. 1190.
- Piper, Walter E., Melrose, Mass., assignor to Boston Rubber Shoe Company. Eliminating porosity in rubber goods. No. 1,164,860; Dec. 21; Gaz. vol. 221; p. 830.
- Pipher, William E. A., assignor of one-fourth to C. A. Sherwood, Parkers Landing, Pa. Dust-pan. No. 1,138,504; May 4; Gaz. vol. 214; p. 274.
- Pippin, John W., Brownwood, Tex. Underreamer. No. 1,133,398; Mar. 30; Gaz. vol. 212; p. 1415.
- Pirani, Marcello von. (See Feuerlein and Pirani.)
- Pirani, Marcello von. (See Gerdien and Pirani.)
- Pirson, George H., Buffalo, N. Y. Angle-brace. No. 1,141,210; June 1; Gaz. vol. 215; p. 43.
- Pirtle, Claiborne, Cleveland, Ohio. Resilient wheel. No. 1,130,762; Mar. 9; Gaz. vol. 212; p. 355.
- Pisarek, Andre. (See Lindquist and Pisarek.)
- Pisetta, John, Oil City, Pa. Roof-tile-cutting apparatus. No. 1,130,331; Mar. 2; Gaz. vol. 212; p. 170.
- Pitcher, Elmer, Minneapolis, Minn. Shock-loader. No. 1,136,264; Apr. 20; Gaz. vol. 213; p. 855.
- Pitcher, Elmer C., San Francisco, Cal. Supporting means for disappearing beds. No. 1,132,616; Mar. 23; Gaz. vol. 212; p. 1095.
- Pitcher, Joseph W., Washington, D. C. Record-cleaning attachment for talking-machines. No. 1,157,958; Oct. 26; Gaz. vol. 219; p. 1038.
- Pitcher, Ralph N., Milwaukee, Wis. Fly-screen. No. 1,139,574; May 18; Gaz. vol. 214; p. 725.
- Pitel, Conrad M., Meriden, Conn. Suspension device for lamps. No. 1,126,074; Jan. 26; Gaz. vol. 210; p. 1129.
- Pitman, Farris. (See Cobb and Pitman.)
- Pitman-Moore Company. (See Roberts, George H., assignor.)
- Pitsch, Victor A., Leavenworth, Kans. Stove. No. 1,139,575; May 18; Gaz. vol. 214; p. 725.
- Pitt, Malcolm S., Bridgeton, N. J. Organ stop-action. No. 1,151,387; Aug. 24; Gaz. vol. 217; p. 1242.
- Pittkelow, August, Chicago, Ill., assignor to American Can Company, New York, N. Y. Cover. No. 1,148,620; Aug. 3; Gaz. vol. 217; p. 50.
- Pittenger, Charles E., assignor of one-half to J. Whitworth, Falls City, Neb. Index-cabinet. No. 1,130,332; Mar. 2; Gaz. vol. 212; p. 170.
- Pittner, Paul S., assignor to H. K. Mulford Company, Philadelphia, Pa. Vaccine-container. No. 1,161,725; Nov. 23; Gaz. vol. 220; p. 1298.
- Pittings, John, Antler, N. D. Tractor. No. 1,130,018; Mar. 2; Gaz. vol. 212; p. 62.
- Pittman, Carl L., De Leon, Tex. Winch attachment for automobiles. No. 1,151,819; Aug. 31; Gaz. vol. 217; p. 1439.
- Pittman, Lawson L., Bloomfield, Iowa. Cutting mechanism for harvesters. No. 1,128,504; Feb. 16; Gaz. vol. 211; p. 734.
- Pittman, Vincent V., Selma, Cal. Cooler. No. 1,138,505; May 4; Gaz. vol. 214; p. 274.
- Pittman, William H., Gaviota, Cal. Train-order apparatus. No. 1,166,252; Dec. 28; Gaz. vol. 221; p. 1359.
- Pittoni, Louis E. (See Sisbower and Pittoni.)
- Pittroff, Andreas, Dresden, Germany. Heel-stiffener for boots and shoes. No. 1,154,429; Sept. 21; Gaz. vol. 218; p. 797.
- Pitts, Harry O., Carthage, Ind. Ironing-board. No. 1,155,612; Oct. 5; Gaz. vol. 219; p. 99.
- Pitts, Hood, Austin, Tex., assignor of one-half to F. M. Covert. Elevator-door-operating apparatus. No. 1,139,901; May 18; Gaz. vol. 214; p. 840.
- Pitts, Hood, assignor of one-half to F. M. Covert, Austin, Tex. Floor selector-switch for electric door-operating apparatus. No. 1,139,902; May 18; Gaz. vol. 214; p. 840.
- Pitts, Hood, assignor of one-half to F. M. Covert, Austin, Tex. Switch. No. 1,139,903; May 18; Gaz. vol. 214; p. 841.
- Pitts, Hood, assignor of one-half to F. M. Covert, Austin, Tex. Car-door operating and locking device. No. 1,139,904; May 18; Gaz. vol. 214; p. 842.
- Pitts, Hood, assignor of one-half to F. M. Covert, Austin, Tex. Door operating and locking device. No. 1,139,905; May 18; Gaz. vol. 214; p. 842.
- Pitts, John W., Bisbee, Ariz. Operating internal-combustion engines. No. 1,136,715; Apr. 20; Gaz. vol. 213; p. 1016.
- Pitts, Samuel, Stronghurst, Ill. Lock for throttle-levers. No. 1,162,307; Nov. 30; Gaz. vol. 220; p. 1549.
- Pittsburg Meter Company. (See Chrisman, Horace, assignor.)
- Pittsburg Plate Glass Company. (See Clause, William L., assignor.)
- Pittsburg Plate Glass Company, The. (See Hitner, Harry F., assignor.)
- Pittsburg Plate Glass Company. (See Moore, George E., assignor.)
- Pittsburg Water Heater Company. (See Frampton, Reynolds C., assignor.)
- Pittsburgh Air Brake Company. (See Snyder, Jacob R., assignor.)
- Pittsburgh Can Company. (See Jones, Whitfield E., Jr., assignor.)
- Pittsburgh Coal Washer Company. (See Hurst, Willis T., assignor.)
- Pittsburgh-Hickson Company *et al.* (See Moore and Musser, assignors.)
- Pittsburgh Metallurgical Company, The. (See Plock, Albert F., assignor.)
- Pittsburgh Plate Glass Company. (See Barnes, William E., assignor.)
- Pittsburgh Plate Glass Company. (See Bechtel, John A., assignor.)
- Pittsburgh Plate Glass Company. (See Fox, John H., assignor.)
- Pittsburgh Plate Glass Company. (See Franzen, Nicklas, assignor.)
- Pittsburgh Plate Glass Company. (See Golightly, William J., assignor.)
- Pittsburgh Plate Glass Company. (See Heichert and Drury, assignors.)
- Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
- Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
- Pittsburgh Plate Glass Company, The. (See Howard, George E., assignor.)
- Pittsburgh Plate Glass Company. (See Pease, Roger S., assignor.)
- Pittsburgh Plate Glass Company. (See Slingluff, Harry G., assignor.)
- Pittsburgh Steel Co. (See Adams and Johnson, assignors.)
- Pittsburgh Steel Company. (See Emery, Wilber, assignor.)
- Pittsburgh Valve, Foundry and Construction Company, The. (See Stuart, George J., assignor.)
- Pittsfield Spark Coil Company. (See Frawley, James B., assignor.)
- Pitz, John F., assignor to Pitz & Webber Iron Foundry, New York, N. Y. Twyer. No. 1,134,005; Mar. 30; Gaz. vol. 212; p. 1626.
- Pitz & Webber Iron Foundry. (See Pitz, John F., assignor.)
- Pivarchy, Gaspar. (See Pivarchy, John and G.)
- Pivarchy, John and G., Uniontown, Pa. Boat. No. 1,125,881; Jan. 19; Gaz. vol. 210; p. 1024.
- Pivarnik, Victor. (See Tischler, John, assignor.)
- Pivonka, Jacob H., Timkin, Kans. Shell. No. 1,146,950; July 20; Gaz. vol. 216; p. 731.

- Pixley, Frank E., St. Paul, Minn. Car-body. No. 1,138,309; May 4; Gaz. vol. 214; p. 205.
- Place, Charles A., Newman, Ill. Self-starter for internal-combustion engines. No. 1,137,788; May 4; Gaz. vol. 214; p. 23.
- Place, James F., Glen Ridge, N. J., assignor to American Air-Liquefying Company, New York, N. Y. Apparatus for liquefying and separating atmospheric air. No. 1,123,588; Jan. 5; Gaz. vol. 210; p. 133.
- Place, James F., Glen Ridge, N. J., assignor to American Air-Liquefying Company, New York, N. Y. Air liquefier and separator. No. 1,146,020; July 13; Gaz. vol. 216; p. 386.
- Place, James F., Glen Ridge, N. J., assignor to American Air-Liquefying Co. Liquefying and separating air. No. 1,152,044; Aug. 31; Gaz. vol. 217; p. 1516.
- Place, James F., Glen Ridge, N. J., assignor to American Air-Liquefying Company, New York, N. Y. Liquefying and separating mixed gases. No. 1,152,119; Aug. 31; Gaz. vol. 217; p. 1543.
- Place, James F., Glen Ridge, N. J., assignor to American Air-Liquefying Company, New York, N. Y. Liquefying air and separating it into oxygen and nitrogen. No. 1,152,120; Aug. 31; Gaz. vol. 217; p. 1543.
- Place, James F., Glen Ridge, N. J., assignor to American Air-Liquefying Company, New York, N. Y. Liquefying air and separating the same into oxygen and nitrogen. No. 1,157,959; Oct. 26; Gaz. vol. 219; p. 1039.
- Plagg, William, Spokane, Wash. Container-cover. No. 1,131,080; Mar. 9; Gaz. vol. 212; p. 464.
- Plaine, George H. (See London, Plaine, and Allen.)
- Plamondon, Louis E., Santa Rosa, Cal. Mechanical movement. No. 1,159,601; Nov. 9; Gaz. vol. 220; p. 449.
- Planché, Léon, Paris, France. Device for assembling the parts of pasteboard boxes and other similar packings. No. 1,148,985; Aug. 3; Gaz. vol. 217; p. 177.
- Planck, F. M., et al. (See Sherman, Louie A., assignor.)
- Planck, Frederick M. (See Bonaly, Louis F., assignor.)
- Plank, J. Raymond, Grand Rapids, Mich. Universal joint. No. 1,147,887; July 27; Gaz. vol. 216; p. 1086.
- Plant, Thomas G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Edge-protector for shoe-soles. No. 1,124,328; Jan. 12; Gaz. vol. 210; p. 435.
- Plant, Thomas G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,126,856; Feb. 2; Gaz. vol. 211; p. 69.
- Plant, Thomas G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-support. No. 1,166,253; Dec. 28; Gaz. vol. 221; p. 1359.
- Plantation Equipment Company. (See Zelle, William C., assignor.)
- Plante, Arthur G., Anoka, Minn. Attachment for boxes. No. 1,143,066; June 15; Gaz. vol. 215; p. 771.
- Plante, Levi N., Auburn, Mass., assignor to Eastman Kodak Company, Rochester, N. Y. Scoring device. No. 1,153,951; Sept. 21; Gaz. vol. 218; p. 633.
- Plante, Oliver N., Lowville, N. Y. Combination-tool. No. 1,141,141; June 1; Gaz. vol. 215; p. 18.
- Plantén, Hermann R., New York, N. Y. Gelatin capsule. No. 1,134,156; Apr. 6; Gaz. vol. 213; p. 26.
- Plantén, Hermann R., New York, N. Y. Gelatin capsule. No. 1,148,621; Aug. 3; Gaz. vol. 217; p. 50.
- Plantinga, Pierre, Cleveland, Ohio. Apparatus for distributing heat produced by combustion. No. 1,135,137; Apr. 13; Gaz. vol. 213; p. 421.
- Plantinga, Pierre, Cleveland, Ohio. Smelting-furnace. No. 1,146,097; July 13; Gaz. vol. 216; p. 413.
- Plantrou, Eugène, Oissel, France. Ring-frame for spinning and twisting textile materials. No. 1,126,075; Jan. 26; Gaz. vol. 210; p. 1129.
- Plaster, Joseph J., Lockney, Tex. Clothes-pin. No. 1,145,032; July 6; Gaz. vol. 216; p. 20.
- Plastow, Harry E. (See Dudley and Plastow.)
- Plata, Mitridates H., New York, N. Y. Saliva-ejector. No. 1,147,341; July 20; Gaz. vol. 216; p. 866.
- Platinum Electric Incubator Company. (See White, Louis L., assignor.)
- Platner, David F., assignor of one-fourth to E. Michaelis and one-fourth to C. N. Tibbits, Monterey, Cal. Gravity-trap dry separator. No. 1,131,081; Mar. 9; Gaz. vol. 212; p. 464.
- Plato, John B., Semper, Colo. Map or chart. No. 1,147,749; July 27; Gaz. vol. 216; p. 1037.
- Platt, Arthur L., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Paper-carton opener. No. 1,129,310; Feb. 23; Gaz. vol. 211; p. 1050.
- Platt, Clarence D., Bridgeport, Conn. Panel-board receptacle. No. 1,127,088; Feb. 2; Gaz. vol. 211; p. 150.
- Platt, Clarence D., Bridgeport, Conn. Clamp. No. 1,135,612; Apr. 13; Gaz. vol. 213; p. 585.
- Platt, Clarence D., Bridgeport, Conn. Attachment-plug. No. 1,145,633; July 6; Gaz. vol. 216; p. 21.
- Platt, Clarence D., Bridgeport, Conn. Attachment-plug. No. 1,151,038; Aug. 24; Gaz. vol. 217; p. 1126.
- Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,152,758; Sept. 7; Gaz. vol. 218; p. 138.
- Platt, Lewis A., Waterbury, Conn. Valve. No. 1,143,225; June 15; Gaz. vol. 215; p. 828.
- Platt, Maurice A., New York, N. Y., assignor to Merchants Safety Equipment Corporation. Pin-seal. No. 1,125,915; Jan. 19; Gaz. vol. 210; p. 1037.
- Platt, Maurice A., assignor to A. Kimball Company, New York, N. Y. Garment-marking tag. No. 1,161,333; Nov. 23; Gaz. vol. 220; p. 1162.
- Platt, Samuel L., New York, N. Y. Portable gymnastic apparatus. No. 1,126,857; Feb. 2; Gaz. vol. 211; p. 69.
- Platt, Thomas M., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Hydraulic stuffing-box. No. 1,124,514; Jan. 12; Gaz. vol. 210; p. 503.
- Platt, Wilber O., assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Bearing for oil-well jacks and swing-levers. No. 1,129,229; Feb. 23; Gaz. vol. 211; p. 1022.
- Platt, Wilber O., assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Grinding-machine. No. 1,148,533; Aug. 3; Gaz. vol. 217; p. 17.
- Platts, Howard C. (See Overbury and Platts.)
- Platz, Frank A., Brooklyn, N. Y. Cutting and assembling garments by wholesale. No. 1,136,048; Apr. 20; Gaz. vol. 213; p. 778.
- Platz, Wilhelm, Weinheim, Germany. Steam-generator. No. 1,153,442; Sept. 14; Gaz. vol. 218; p. 421.
- Platzek, Alois, Athens, Wis. Automatic sled-brake. No. 1,136,716; Apr. 20; Gaz. vol. 213; p. 1016.
- Plaut, Rutherford C. (See Murphy, John J., assignor.)
- Pleasance, Frederick W., Cleveland, Ohio. Automatic safety saw-guard. No. 1,127,509; Feb. 9; Gaz. vol. 211; p. 337.
- Pleasants, Arthur H., Baltimore, Md., assignor to The Easy Guide Manufacturing Company. Combined fan and map-guide. No. 1,148,479; July 27; Gaz. vol. 216; p. 1295.
- Pleijel, Henning B. M. (See Olsson and Pleijel.)
- Pleins, Rudolph C., assignor to Pleius Seal Lock Company, St. Paul, Minn. Hinge. No. 1,135,547; Apr. 13; Gaz. vol. 213; p. 561.
- Pleius Seal Lock Company. (See Pleins, Rudolph C., assignor.)
- Pleister, Henry W. (See Shepherd, Paul, and Pleister.)
- Pleister, Henry W. (See Upson and Pleister.)
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Drive and screw expansion-bolt. No. 1,153,335; Sept. 14; Gaz. vol. 218; p. 380.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Bolt-anchor. No. 1,155,613; Oct. 5; Gaz. vol. 219; p. 100.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Bolt-anchor. No. 1,155,614; Oct. 5; Gaz. vol. 219; p. 100.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Bolt-anchor. No. 1,155,615; Oct. 5; Gaz. vol. 219; p. 100.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Combined expansion and toggle bolt and parts therefor. No. 1,161,155; Nov. 23; Gaz. vol. 220; p. 1098.
- Pletsch, Henry. (See Judd and Pletsch.)
- Pletscher, Carl, assignor to Werner & Pfelderer Company, Saginaw, Mich. Machine for folding noodles. No. 1,128,900; Feb. 16; Gaz. vol. 211; p. 872.
- Pletscher, Carl, assignor to Werner & Pfelderer Company, Saginaw, Mich. Rotary roller-pan. No. 1,154,935; Sept. 28; Gaz. vol. 218; p. 990.
- Pleukhar, Irvin H., Columbus, Ohio. Transmission-gearing for motor-vehicles. No. 1,133,744; Mar. 30; Gaz. vol. 212; p. 1539.
- Plie, Thomas V., assignor to W. V. B. Topping, Ashland, Ohio. Door-hanger. No. 1,134,288; Apr. 6; Gaz. vol. 213; p. 75.
- Plock, Albert F., assignor to The Pittsburgh Metallurgical Company, Pittsburgh, Pa. Apparatus for sintering ores. No. 1,140,710; May 25; Gaz. vol. 214; p. 1157.
- Ploessel, Julius T., et al. (See Smith, Lewis H., assignor.)
- Plogsted, Walter J., Yonkers, assignor to General Railway Signal Company, Gates, N. Y. Cross protection device. No. 1,163,171; Dec. 7; Gaz. vol. 221; p. 153.
- Plopper, James A., Portland, Ore. Change-making and coin-dispensing machine. No. 1,141,410; June 1; Gaz. vol. 215; p. 116.
- Ploughe, Isaac J., Plainville, Ill. Automatic chicken-separator. No. 1,147,641; July 20; Gaz. vol. 216; p. 974.
- Plumb, Amasa C., San Francisco, Cal., R. W. Smart, Seattle, Wash., and A. P. Sautter, Philadelphia, Pa. Lifeboat-launching device. No. 1,126,076; Jan. 26; Gaz. vol. 210; p. 1130.
- Plumb, D. S. (See Holbrook, John K., assignor.)
- Plumb, Roy A., and C. R. Weed, assignors to Trussed Concrete Steel Company, Detroit, Mich. Refractory composition board and producing the same. No. 1,159,866; Nov. 9; Gaz. vol. 220; p. 545.
- Plumbly, Frederick K., Mount Ivy, assignor to Plumbly Steel Egg Case Company, New York, N. Y. Device for safe transportation of eggs. No. 1,129,119; Feb. 23; Gaz. vol. 211; p. 984.
- Plumbly Steel Egg Case Company. (See Plumbly, Frederick K., assignor.)
- Plume and Atwood Manufacturing Company, The. (See Andersen, Lauritz W., assignor.)

Alphabetical list of patentees—Continued.

- Plumer, James T., Salt Lick, Ky. Water-motor. No. 1,125,594; Jan. 19; Gaz. vol. 210; p. 922.
- Plumm, Gottfried, Berlin, Germany. Throttle-valve for carbureters. No. 1,130,103; Mar. 2; Gaz. vol. 212; p. 91.
- Plummer, Charles O., Fay, Okla. Harrow-cart. No. 1,131,547; Mar. 9; Gaz. vol. 212; p. 625.
- Plummer, Clarence H., Kewaunee, Wis. Temporarily preserving shelled peas and similar vegetables. No. 1,164,861; Dec. 21; Gaz. vol. 221; p. 830.
- Plummer, Ezra G., Altoona, Iowa. Explosive-engine. No. 1,136,265; Apr. 20; Gaz. vol. 213; p. 855.
- Plummer, John, Johnson, Kans. Plow. No. 1,145,212; July 6; Gaz. vol. 216; p. 82.
- Plummer, Roy L., Edinburg, Ill. Paper-clip. No. 1,133,664; Mar. 30; Gaz. vol. 212; p. 1512.
- Plummer, V. L., et al. (See Bragg, Julius, assignor.)
- Plunkett, Charles L., assignor to American Couch Company, Brooklyn, N. Y. Couch-bed. No. 1,148,797; Aug. 3; Gaz. vol. 217; p. 113.
- Plunkett, Charles L., Brooklyn, assignor of one-half to M. Englander, New York, N. Y. Antifriction device for angle-iron legs. No. 1,157,657; Oct. 19; Gaz. vol. 219; p. 868.
- Plunkett, Hugh E., assignor, by mesne assignments, to United States Tropical Food Company, Malden, Mass. Preserving bananas. No. 1,138,887; May 11; Gaz. vol. 214; p. 448.
- Plunkett, Hugh E., assignor, by mesne assignments, to United States Tropical Food Company, Malden, Mass. Banana food and making same. No. 1,138,888; May 11; Gaz. vol. 214; p. 448.
- Plunkett, Hugh E., assignor, by mesne assignments, to United States Tropical Food Company, Malden, Mass. Food from banana and milk and preparing same. No. 1,165,802; Dec. 28; Gaz. vol. 221; p. 1197.
- Plunkett, William H. (See Holmes, Alfred E., assignor.)
- Plushkell, August B., Alhambra, Cal. Flat-opening binder. No. 1,130,333; Mar. 2; Gaz. vol. 212; p. 171.
- Plym, Francis J., assignor to Kawneer Mfg. Co., Niles, Mich. Window-sash construction. No. 1,157,900; Oct. 26; Gaz. vol. 219; p. 1019.
- Plymouth Rubber Company. (See Meade, James, assignor.)
- Plympton, Frederic K., Wellesley, assignor to Plympton Manufacturing Company, Boston, Mass. Tag. No. 1,156,036; Oct. 5; Gaz. vol. 219; p. 247.
- Plympton, Frederic K., Wellesley, assignor to Plympton Manufacturing Company, Boston, Mass. Tag. No. 1,159,329; Nov. 2; Gaz. vol. 220; p. 320.
- Plympton, Frederic K., Wellesley, assignor to Plympton Manufacturing Company, Boston, Mass. Bottle-closure. No. 1,159,533; Nov. 9; Gaz. vol. 220; p. 423.
- Plympton Manufacturing Company. (See Plympton, Frederic K., assignor.)
- Pneumatic Cupola Co., The. (See Rice, Charles J., assignor.)
- Pneumatic Hub-Tire-Wheel Co. (See Trabue, William, assignor.)
- Pneumatic Scale Corporation et al. (See Field, Samuel B., assignor.)
- Pneumatic Scale Corporation. (See Robinson, George A., assignor.)
- Pneumoelectric Machine Company, The. (See Palmros, Alexander, assignor.) (Reissue.)
- Pneumator Company. (See Parks, Harry S., assignor.)
- Pocket Movie Camera Company, The. (See Harter, Eli, assignor.)
- Pocock, Augustine J., Dayton, Ohio. Operating mechanism for switches. No. 1,128,505; Feb. 16; Gaz. vol. 211; p. 734.
- Podhola, Peter D. (See Smith, William J., assignor.)
- Podlesak, Emil, Tiffin, Ohio. Current-generator and igniter for internal-combustion engines. (Reissue.) No. 1,138,78; Feb. 9; Gaz. vol. 211; p. 607.
- Podlesák, Emil, Tiffin, Ohio. Mixture-producing device and speed-governor. No. 1,155,094; Sept. 28; Gaz. vol. 218; p. 1055.
- Podlesák, Henry J., Chicago, Ill., assignor, by mesne assignments, to International Harvester Corporation. Internal-combustion-engine mixer. No. 1,150,224; Aug. 17; Gaz. vol. 217; p. 787.
- Podmore, Arthur J., Camden, N. J., and J. P. Croasdale, Berwyn, Pa., assignors to Camden Pottery Company. Flushing device. No. 1,148,253; July 27; Gaz. vol. 216; p. 1216.
- Podmore, Thomas, Wilkes-Barre, Pa. Window attachment. No. 1,141,579; June 1; Gaz. vol. 215; p. 176.
- Poehland, Bernhard, Brooklyn, N. Y. Shoulder-rest for violins and other musical instruments. No. 1,156,925; Oct. 19; Gaz. vol. 219; p. 612.
- Poehn, George E. (See Mattes, Henry, assignor.)
- Poessel, Arthur L., Chicago, Ill. Flower-box and the like. No. 1,132,210; Mar. 16; Gaz. vol. 212; p. 898.
- Poetschke, Paul. (See Westlake and Poetschke.)
- Poetter, Heinrich, Dusseldorf, Germany. Blowing system for furnaces. No. 1,141,652; June 1; Gaz. vol. 215; p. 201.
- Poggensee, Edward B., assignor to Sanitary Bottle Washing Company, Limited, Chicago, Ill. Kitchen utensil. No. 1,159,080; Nov. 2; Gaz. vol. 220; p. 231.
- Pogue, George D., St. Louis, Mo. Variable-feed pump. No. 1,154,723; Sept. 28; Gaz. vol. 218; p. 926.
- Pogue, Robert H., New Westminster, British Columbia, Canada. Street-car fender. No. 1,155,682; Oct. 5; Gaz. vol. 219; p. 124.
- Pohl, Anton, assignor to Fried. Krupp Aktiengesellschaft, Germaniawerit, Kiel-Gaarden, Germany. Liquid-fuel-injecting device. No. 1,128,184; Feb. 9; Gaz. vol. 211; p. 574.
- Pohl, Charles, Los Angeles, Cal. Engine-starter. No. 1,149,783; Aug. 10; Gaz. vol. 217; p. 566.
- Pohl, Heinrich. (See Grüter and Pohl.)
- Pohl, John, assignor to Empire Cream Separator Company, Bloomfield, N. J. Journal-bearing. No. 1,125,392; Jan. 19; Gaz. vol. 210; p. 853.
- Pohle, Frederick, Jr., Honesdale, Pa. Calk-sharpening machine. No. 1,153,825; Sept. 14; Gaz. vol. 218; p. 555.
- Pohle, Frederick, Jr., Honesdale, Pa. Hasp-lock. No. 1,156,310; Oct. 12; Gaz. vol. 219; p. 365.
- Pohlman, Frank W., assignor of one-fourth to G. H. Bubltz, one-fourth to E. B. Reed, and one-fourth to A. O. Curry, San Bernardino, Cal. Lock-nut. No. 1,151,124; Aug. 24; Gaz. vol. 217; p. 1154.
- Poindexter, Isabella, Prineville, Oreg. Bed-pan. No. 1,156,172; Oct. 12; Gaz. vol. 219; p. 320.
- Poindexter, Robert W., Jr. (See Huber and Poindexter.)
- Poindexter, William B., assignor of one-half to U. S. Jenkins, Chicago, Ill. Radiator-valve. No. 1,146,276; July 13; Gaz. vol. 216; p. 475.
- Poindexter, William S., Bridgeport, Ill. Pumping-jack. No. 1,162,509; Nov. 30; Gaz. vol. 220; p. 1618.
- Point, George M. (See Enoch and Point.)
- Point, George M., and C. H. Doeblor, Huntington, W. Va. Grinding-machine. No. 1,149,288; Aug. 10; Gaz. vol. 217; p. 389.
- Pointe, Leo L. (See Friese and Pointe.)
- Pointon, John E., Peterborough, England. Machine for preparing rubber. No. 1,138,410; May 4; Gaz. vol. 214; p. 243.
- Pointon, John E., Peterborough, England. Dough-molding machinery. No. 1,157,579; Oct. 19; Gaz. vol. 219; p. 842.
- Pointu, Jean, Roanne, France. Multicolor-loom. No. 1,147,186; July 20; Gaz. vol. 216; p. 813.
- Poisson, Joseph, Fall River, assignor to Draper Company, Hopedale, Mass. Tension for loom-shuttles. No. 1,138,310; May 4; Gaz. vol. 214; p. 206.
- Pokorney, Henry, Indianapolis, Ind. Reversible internal-combustion engine. No. 1,134,225; Apr. 6; Gaz. vol. 213; p. 52.
- Pokorny, Edward E., Silver Lake, Minn. Automobile-fender. No. 1,132,117; Mar. 16; Gaz. vol. 212; p. 864.
- Polack, Max, Waltershausen, Germany. Wheel with detachable rim for solid-rubber tires. No. 1,146,205; July 13; Gaz. vol. 216; p. 451.
- Poland, Edward F., Boston, Mass. Mechanical toy. No. 1,143,315; June 15; Gaz. vol. 215; p. 859.
- Polderman, Wouter, Jr., and F. H. Luchsinger, Ymuiden, Netherlands. Smoke and water tube boiler. No. 1,161,726; Nov. 23; Gaz. vol. 220; p. 1298.
- Pole, Jacob, Hamden, N. Y. Toy-decoration-wheel. No. 1,134,417; Apr. 6; Gaz. vol. 213; p. 121.
- Pole, Joseph C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Reflector for vapor-lamps. No. 1,153,443; Sept. 14; Gaz. vol. 218; p. 421.
- Pole, Joseph C., New York, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Starting device for mercury-vapor apparatus. No. 1,157,804; Oct. 26; Gaz. vol. 219; p. 984.
- Pole, Joseph C., New York, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Protecting device for vapor electric apparatus. No. 1,158,842; Nov. 2; Gaz. vol. 220; p. 153.
- Polhuis, Leendert P., Amsterdam, Netherlands, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting and computing machine. No. 1,147,431; July 20; Gaz. vol. 216; p. 900.
- Polinkowsky, Lipa. (See McBerty and Polinkowsky.)
- Polinkowsky, Lipa, Brussels, Belgium, assignor to Western Electric Company, New York, N. Y. Machine telephone switching system. No. 1,137,231; Apr. 27; Gaz. vol. 213; p. 1237.
- Polinkowsky, Lipa, Brussels, Belgium, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,139,906; May 18; Gaz. vol. 214; p. 843.
- Polinkowsky, Lipa, Brussels, Belgium, assignor to Western Electric Company, New York, N. Y. Machine telephone switching system. No. 1,160,447; Nov. 16; Gaz. vol. 220; p. 800.
- Polinkowsky, Lipa, Brussels, Belgium, assignor to Western Electric Company, New York, N. Y. Telephone-exchange system. No. 1,161,411; Nov. 23; Gaz. vol. 220; p. 1191.
- Polittowski, Peter P., Chicago, Ill. Dynamo-electric machine. No. 1,145,081; July 6; Gaz. vol. 216; p. 39.
- Polk, C. S., et al. (See Bevington, Thomas, assignor.)
- Polk, Charles F., Watervliet, N. Y. Collar. No. 1,124,947; Jan. 12; Gaz. vol. 210; p. 657.

- Pollacek, Emil, Spezia, Italy. Binding and impregnating materials made from waste sulfite liquors. No. 1,133,499; Mar. 30; Gaz. vol. 212; p. 1450.
- Pollak, Alfred, Maisons Alfort, near Paris, France. Promoting acid fermentation. No. 1,123,920; Jan. 5; Gaz. vol. 210; p. 247.
- Pollak, Anton, Paris, France. Voltage-regulator. No. 1,137,019; Apr. 27; Gaz. vol. 213; p. 1160.
- Pollak, Anton, Paris, France. Contact device for interrupters. No. 1,164,313; Dec. 14; Gaz. vol. 221; p. 597.
- Pollak, Isidor, Vienna, Austria-Hungary. Diastase preparations and making same. No. 1,153,640; Sept. 14; Gaz. vol. 218; p. 490.
- Pollak, Isidor, Vienna, Austria-Hungary. Malt extract and making same. No. 1,153,641; Sept. 14; Gaz. vol. 218; p. 490.
- Pollak, Max. (See Andra, Frank, assignor.)
- Pollard, Charles H., assignor to The Jennings Brothers Manufacturing Company, Bridgeport, Conn. Case for portable electric lamps. No. 1,129,602; Feb. 23; Gaz. vol. 211; p. 1155.
- Pollanz, Jacob C., Oregon City, Oreg. Waste-sulfite-liquor save-all. No. 1,156,551; Oct. 12; Gaz. vol. 219; p. 452.
- Pollard-Ailing Manufacturing Company. (See De Minico, Frank, assignor.)
- Pollard, Andrew N., et al. (See Mooney, William A., assignor.)
- Pollard, Edson T., Niagara Falls, N. Y. Gearing for feed mechanisms. No. 1,146,814; July 20; Gaz. vol. 216; p. 684.
- Pollard, Henry E., New Haven, Conn. Tube and pipe expander. No. 1,138,311; May 4; Gaz. vol. 214; p. 206.
- Pollard, Henry V., Somerville, Mass. Seating for auditoriums. No. 1,133,500; Mar. 30; Gaz. vol. 212; p. 1450.
- Pollard, James S. (See Harris and Pollard.)
- Pollard, John A., Hunnewell, Mo. Means for reinforcing traces. No. 1,137,528; Apr. 27; Gaz. vol. 213; p. 1343.
- Pollen, Arthur H., London, and H. Isherwood, York, England. Means and apparatus for charting the positions of ships at sea. No. 1,123,795; Jan. 5; Gaz. vol. 210; p. 204.
- Pollen, Arthur H., London, and H. Isherwood, York, England. Range-clock. No. 1,162,510; Nov. 30; Gaz. vol. 220; p. 1618.
- Pollen, Arthur H., London, and H. Isherwood, York, England. Range-clock. No. 1,162,511; Nov. 30; Gaz. vol. 220; p. 1619.
- Pollock, Adolph E., and L. Rosenberg, New York, N. Y., assignors to H. L. Siegel, trustee, Salt Lake City, Utah. Automatic fastener. (Reissue.) No. 14,005; Nov. 2; Gaz. vol. 220; p. 326.
- Pollock, Earl H., Paris, Ky., assignor of one-fourth to H. J. Schatz, Millard, Nebr. Shade and curtain fixture. No. 1,150,882; Aug. 24; Gaz. vol. 217; p. 1073.
- Pollock, John L., Sterling, Ill. Lock. No. 1,124,515; Jan. 12; Gaz. vol. 210; p. 503.
- Pollock, John L., Sterling, Ill. Lock. No. 1,165,443; Dec. 28; Gaz. vol. 221; p. 1072.
- Pollock, John R., Long Beach, Cal. Dust-collector for pneumatic street-sweeping machines. No. 1,155,272; Sept. 28; Gaz. vol. 218; p. 1112.
- Pollock, Robert H., assignor to The New Jersey Vending Machine Company, Plainfield, N. J. Vending-machine. No. 1,161,334; Nov. 23; Gaz. vol. 220; p. 1163.
- Pollock, Roy S. (See Conway, Thomas W., assignor.)
- Pollock, Stewart. (See Pollock, William C. and S.)
- Pollock, William C. and S., Glasgow, Scotland. Ignition device for explosive-engine vaporizing-chambers. No. 1,165,020; Dec. 21; Gaz. vol. 221; p. 884.
- Pollock, William L., Jr., New York, N. Y. Safety shutter-controller for cameras. No. 1,131,160; Mar. 9; Gaz. vol. 212; p. 491.
- Pollock, William M., Forest Grove, Oreg. Lancet. No. 1,135,465; Apr. 13; Gaz. vol. 213; p. 532.
- Polmann, John F., East Rutherford, N. J. Sediment-collecting device and water-inlet valve for kitchen-bollers. No. 1,163,451; Dec. 7; Gaz. vol. 221; p. 251.
- Polo, Jacob, Frederick, S. D. Harrow-follower. No. 1,128,506; Feb. 16; Gaz. vol. 211; p. 734.
- Polo, Joseph B., Clear Lake, S. D. Alarm. No. 1,132,793; Mar. 23; Gaz. vol. 212; p. 1161.
- Polsgrove, William G., Roswell, N. Mex. Roller-cage for leaf-springs. No. 1,159,265; Nov. 2; Gaz. vol. 220; p. 297.
- Polski, Roman F., St. Paul, Minn. Ironing-board. No. 1,158,279; Oct. 26; Gaz. vol. 219; p. 1151.
- Polson, Nels E., and H. R. Paulson, La Grange, Ill. Electric-iron cord take-up. No. 1,157,418; Oct. 19; Gaz. vol. 219; p. 789.
- Pomaville, Cephes R., assignor to The Michigan Stove Company, Detroit, Mich. Air and gas mixing device. No. 1,144,501; June 29; Gaz. vol. 215; p. 1322.
- Pombo, Carlos, and T. Del Casal, Manila, Philippine Islands. Apparatus for drying copra. No. 1,141,003; May 25; Gaz. vol. 214; p. 1262.
- Pomerantz, Isidor, St. Louis, assignor to F. L. Dickey, Kansas City, Mo. Flashing-block. No. 1,161,791; Nov. 23; Gaz. vol. 220; p. 1322.
- Pomeroy, Arthur K., Williamstown, N. J. Cushion-heel. No. 1,162,709; Nov. 30; Gaz. vol. 220; p. 1683.
- Pomeroy, Bennard H., assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Tubular lantern. No. 1,120,429; Mar. 2; Gaz. vol. 212; p. 205.
- Pomeroy, Edward S. (See Wesson and Pomeroy.)
- Pomeroy, John, East St. Kilda, Victoria, Australia. Furnace. No. 1,137,420; Apr. 27; Gaz. vol. 213; p. 1307.
- Pomeroy, Maggie, McKenzie, N. D. Holder attachment. No. 1,156,370; Oct. 12; Gaz. vol. 219; p. 388.
- Pomeroy, Philip H., Brookline, Mass. Toy wheel. No. 1,124,654; Jan. 12; Gaz. vol. 210; p. 555.
- Pomeroy, William D., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company. Balancing-table. No. 1,136,611; Apr. 20; Gaz. vol. 213; p. 979.
- Pomijs, Theofil, Lesueur Center, and J. Staska, Montgomery, Minn. Threshing-machine. No. 1,133,716; Apr. 13; Gaz. vol. 213; p. 622.
- Pomona Manufacturing Company, The. (See Fulton, Samuel M., assignor.)
- Pomona Manufacturing Company, The. (See Izer, Elmer E., assignor.)
- Pond, Clarke P., Philadelphia, Pa. Window-operating mechanism. No. 1,151,388; Aug. 24; Gaz. vol. 217; p. 1243.
- Pond, Edward C., Petersburg, Va. Heel-guard for boots or shoes. No. 1,139,220; May 11; Gaz. vol. 214; p. 565.
- Pond, Lester G., Seekonk, Mass., assignor to T. W. Foster, Providence, R. I. Carbureter. No. 1,162,308; Nov. 30; Gaz. vol. 220; p. 1549.
- Pond, Linnaeus C. (See Elliott and Pond.)
- Pongrat, Henry, Canal Dover, Ohio. Feed-water valve for boilers. No. 1,146,446; July 13; Gaz. vol. 216; p. 537.
- Ponke, Joseph. (See Grubba and Ponke.)
- Pontius, Frederick E. (See Roche and Pontius.)
- Pontius, Lawrence E. (See Boehler, Wilhelm, assignor.)
- Pool, Carl L., Sherman, Tex. Automatic signal and control for railways. No. 1,129,120; Feb. 23; Gaz. vol. 211; p. 984.
- Pool, Clark H., Binghamton, N. Y., assignor to Star Electric Company. Signaling system. No. 1,124,799; Jan. 12; Gaz. vol. 210; p. 605.
- Pool, David A., Maccos, Ky. Automatic train-order crane. No. 1,141,411; June 1; Gaz. vol. 215; p. 117.
- Pool, Elmer C., New Castle, Pa. Manipulation of sheet-metal plates. No. 1,141,412; June 1; Gaz. vol. 215; p. 118.
- Pool, Samuel M., and W. Bunch, Aurora, Mo. Cotton-chopper. No. 1,134,060; Mar. 30; Gaz. vol. 212; p. 1646.
- Pool, Willard H., Atlanta, Ga. Convertible chair. No. 1,158,280; Oct. 26; Gaz. vol. 219; p. 1151.
- Poole, Annie, executrix. (See Poole, Clarence F. and C. C.)
- Poole, Arthur F., Chicago, Ill. Speedometer. No. 1,158,281; Oct. 26; Gaz. vol. 219; p. 1151.
- Poole, Charles C. (See Poole, Clarence F. and C. C.)
- Poole, Clarence F., and C. C. Poole, deceased, Evanston, Ill.; A. Poole, executrix. Starting device for explosive-engines. No. 1,136,913; Apr. 20; Gaz. vol. 213; p. 1085.
- Poole, Jesse V., assignor of one-half to L. L. Livingston, Abington, Mass. Innersole and making the same. No. 1,137,282; Apr. 27; Gaz. vol. 213; p. 1257.
- Poole, John H., et al. (See Norwood, Carrie M., assignor.)
- Poole, John H., Avon, assignor to Reinforced Inner Tube Company, Brockton, Mass. Inner tube for pneumatic tires. No. 1,144,239; June 22; Gaz. vol. 215; p. 1205.
- Poole, Staley D., assignor to Deere & Company, Moline, Ill. Harrow and cultivator. No. 1,138,971; May 11; Gaz. vol. 214; p. 477.
- Poole, Staley D., Moline, Ill., assignor to Deere & Company. Cultivator. No. 1,140,767; May 25; Gaz. vol. 214; p. 1176.
- Poor, Gilbert H., Milwaukee, Wis. Safety storage-receptacle for combustible liquids. No. 1,143,646; June 22; Gaz. vol. 215; p. 997.
- Poore, Orson B., Aurora, Minn. Honeycomb-decapping knife. No. 1,160,754; Nov. 16; Gaz. vol. 220; p. 913.
- Poorman, Jesse, et al. (See Smith, David M., assignor.)
- Pope, Charles E., Pittsburgh, Pa. Apparatus for baking plates and other uses. No. 1,124,168; Jan. 5; Gaz. vol. 210; p. 330.
- Pope, Charles E., Holyoke, Mass. Method and machine for making paper. No. 1,140,711; May 25; Gaz. vol. 214; p. 1158.
- Pope, Charles E., assignor of three-fifths to B. F. Perkins & Son, Incorporated, Holyoke, Mass. Pulp-screen. No. 1,127,372; Feb. 2; Gaz. vol. 211; p. 246.
- Pope, Charles E., assignor of three-fifths to B. F. Perkins & Son, Incorporated, Holyoke, Mass. Paper-pulp screen. No. 1,160,649; Nov. 16; Gaz. vol. 220; p. 875.
- Pope, Charles J. (See Monahan and Pope.)
- Pope, Edgar D. (See Ketring and Pope.)
- Pope, Frank, Kankakee, assignor to The Paramount Knitting Company, Chicago, Ill. Apparatus for pressing and drying hosiery. No. 1,162,100; Nov. 30; Gaz. vol. 220; p. 1477.
- Pope, George, et al., receivers. (See McGrath and Clark, assignors.)
- Pope, George L. and J. A. Omaha, Nebr. Billiard-cue. No. 1,163,035; Dec. 7; Gaz. vol. 221; p. 105.
- Pope, James A. (See Pope, George L. and J. A.)

Alphabetical list of patentees—Continued.

- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for treating stock. No. 1,123,369; Jan. 5; Gaz. vol. 210; p. 60.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Last. No. 1,137,421; Apr. 27; Gaz. vol. 213; p. 1308.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-press. No. 1,161,883; Nov. 30; Gaz. vol. 220; p. 1399.
- Pope, Joseph W., assignor of one-half to J. L. Shepherd, Weldon, N. C. Logging-car stake. No. 1,147,972; July 27; Gaz. vol. 216; p. 1116.
- Pope, Thomas E., Sayre, Okla. Cover-fastening device. No. 1,149,464; Aug. 10; Gaz. vol. 217; p. 451.
- Poplin, James A., assignor to Williams Mill Manufacturing Company, Inc., Ronda, N. C. Shoe for bur-mills. No. 1,131,548; Mar. 9; Gaz. vol. 212; p. 625.
- Popow, Wladimir, St. Petersburg, Russia. Apparatus for automatically weighing pulverized material. No. 1,149,079; Aug. 3; Gaz. vol. 217; p. 210.
- Popp, Charles V., Charleston, W. Va. Vehicle-wheel. No. 1,140,281; May 18; Gaz. vol. 214; p. 973.
- Popp, Edward, El Campo, Tex. Adjustable plow mechanism. No. 1,129,516; Feb. 23; Gaz. vol. 211; p. 1123.
- Popp, Michael L., Milwaukee, Wis. Oxyacetylene apparatus. No. 1,136,437; Apr. 20; Gaz. vol. 213; p. 917.
- Poppenhusen, Herman A., Evanston, Ill. Drain-trap. No. 1,127,510; Feb. 9; Gaz. vol. 211; p. 337.
- Poppenhusen, Herman A., Evanston, Ill. Curtain-fastener. No. 1,128,719; Feb. 16; Gaz. vol. 211; p. 806.
- Poppenhusen, Herman A., Chicago, Ill. Spring. No. 1,135,319; Apr. 13; Gaz. vol. 213; p. 481.
- Poppenhusen, Herman A., Hammond, Ind. Elevation-adjusting means for chain grates. No. 1,144,502; June 29; Gaz. vol. 215; p. 1322.
- Poradis, John, *et al.* (See Painchaud, Pierre A., assignor.)
- Porcelain Enameling Association of America. (See Vollrath and Cohen, assignors.)
- Porcher, Edward P., Charleston, S. C. Pump. No. 1,135,320; Apr. 13; Gaz. vol. 213; p. 482.
- Porges, Philipp, Vienna, Austria-Hungary. Crude-oil pre-heater. No. 1,144,780; June 29; Gaz. vol. 215; p. 1418.
- Porges, Philipp, Vienna, Austria-Hungary. Refrigerator-car. No. 1,164,392; Dec. 14; Gaz. vol. 221; p. 625.
- Portage Rubber Company, The. (See Bleecker, Albert, assignor.)
- Portal, Emile A. B. (See Herrold and Portal.)
- Porter, Alfred R. (See Crowds, Walter A., assignor.)
- Porter, Charles F., New York, N. Y. Hair-dressing foundation. No. 1,160,956; Nov. 16; Gaz. vol. 220; p. 983.
- Porter, Clinton J., Sr., Campello, Mass. Caster. No. 1,150,883; Aug. 24; Gaz. vol. 217; p. 1073.
- Porter, Edwin H., Philadelphia, Pa. Dynamo-electric machine and means for cooling same. No. 1,145,612; July 6; Gaz. vol. 216; p. 221.
- Porter, Edwin H., Philadelphia, Pa. Potential-regulator. No. 1,165,372; Dec. 21; Gaz. vol. 221; p. 1007.
- Porter, Elbert B., Penn Yan, N. Y. Pressure-generator. No. 1,132,381; Mar. 16; Gaz. vol. 212; p. 961.
- Porter, Elizabeth M., Greene, N. Y. Oven-mat. No. 1,126,270; Jan. 26; Gaz. vol. 210; p. 1199.
- Porter, Emmons C., Brockton, Mass. Ice-cake-splitting apparatus. No. 1,128,507; Feb. 16; Gaz. vol. 211; p. 734.
- Porter, Emmons C., Brockton, Mass. Ice-harvesting apparatus. No. 1,138,312; May 4; Gaz. vol. 214; p. 207.
- Porter, Emmons C., Brockton, Mass. Harvesting ice. No. 1,138,313; May 4; Gaz. vol. 214; p. 207.
- Porter, Enos, Shelbyville, Ind. Machine for buffing and polishing and removing scratches. No. 1,161,412; Nov. 23; Gaz. vol. 220; p. 1192.
- Porter, Frederick P., Kellogg, Idaho. Power rock-drill. No. 1,140,185; May 18; Gaz. vol. 214; p. 941.
- Porter, Henry K., Boston, Mass. Cutting-tool. No. 1,145,082; July 6; Gaz. vol. 216; p. 39.
- Porter, Henry K., Boston, Mass. Metal-cutting tool. No. 1,146,021; July 13; Gaz. vol. 216; p. 386.
- Porter, Henry K., Boston, Mass. Metal-cutting tool. No. 1,146,951; July 20; Gaz. vol. 216; p. 732.
- Porter, Henry K., Boston, Mass. Metal-cutting tool. No. 1,161,526; Nov. 23; Gaz. vol. 220; p. 1231.
- Porter, J. H., *et al.* (See Gillespie, Alexander W., assignor.)
- Porter, James C. (See Stanley and Porter.)
- Porter, James R., Holborn, London, England. Construction of aeronautical machines. No. 1,123,589; Jan. 5; Gaz. vol. 210; p. 133.
- Porter, Jesse R., Buffalo, N. Y. Cultivator. No. 1,153,952; Sept. 21; Gaz. vol. 218; p. 634.
- Porter, John C., Northampton, Mass. Aerostat. No. 1,149,218; Aug. 10; Gaz. vol. 217; p. 362.
- Porter, John H., Atlanta, Ga. Fuel-feeding apparatus. No. 1,142,364; June 8; Gaz. vol. 215; p. 486.
- Porter, John W., assignor of one-half to F. W. Kruse, St. Louis, Mo. Hydrocarbon-burner. No. 1,159,266; Nov. 2; Gaz. vol. 220; p. 298.
- Porter, Joseph W., assignor of one-half to R. L. Arndt, Marysville, Cal. Tractor. No. 1,165,708; Dec. 28; Gaz. vol. 221; p. 1165.
- Porter, Joseph Y., assignor of one-half to C. V. Hetts, Detroit, Mich. Controller-regulator. No. 1,132,525; Mar. 16; Gaz. vol. 212; p. 1014.
- Porter, Lewis E., Los Angeles, Cal., assignor of one-half to H. E. Stock, Casper, Wyo. Process and apparatus for treating ores. No. 1,136,483; Apr. 20; Gaz. vol. 213; p. 933.
- Porter, Lula E., Pawhuska, Okla. Fruit-picker. No. 1,132,794; Mar. 23; Gaz. vol. 212; p. 1162.
- Porter, Robert, Youngstown, Ohio. Machine for the manufacture of twisted bars. No. 1,152,759; Sept. 7; Gaz. vol. 218; p. 138.
- Porter, Robert A., Sharon, Kans. Heading-machine. No. 1,145,919; July 13; Gaz. vol. 216; p. 349.
- Porter, S. S., *et al.* (See Gillespie, Alexander W., assignor.)
- Porter Screen Company. (See Southworth, Henry E., assignor.)
- Porter, Sidney S., assignor to Calumet Steel Company, Chicago Heights, Ill. Bar-twisting machine. No. 1,148,121; July 27; Gaz. vol. 216; p. 1171.
- Porter, Thomas A. J., Tuckahoe, N. J. Automobile door-opening mechanism. No. 1,147,642; July 20; Gaz. vol. 216; p. 974.
- Porter, Willard E., Lynn, Mass., assignor to General Electric Company. Demand-indicator. No. 1,138,785; May 11; Gaz. vol. 214; p. 412.
- Porter, Willard E., Lynn, Mass., assignor to General Electric Company. Demand-indicator. No. 1,138,786; May 11; Gaz. vol. 214; p. 412.
- Porter, Willard E., Lynn, Mass., assignor to General Electric Company. Demand apparatus. No. 1,138,787; May 11; Gaz. vol. 214; p. 413.
- Porter, Willard E., Lynn, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 1,155,095; Sept. 28; Gaz. vol. 218; p. 1055.
- Porter, William K., Pittsburgh, Pa. Signal apparatus. No. 1,162,646; Nov. 30; Gaz. vol. 220; p. 1660.
- Porter, William S., and C. A. Winn, Chicago, Ill.; said Winn assignor to said Porter. Ball-and-socket joint. No. 1,123,796; Jan. 5; Gaz. vol. 210; p. 205.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Striking, lever or marine clock. No. 1,139,369; May 11; Gaz. vol. 214; p. 616.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Lever or marine strike clock movement. No. 1,149,683; Aug. 10; Gaz. vol. 217; p. 532.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Eight-day alarm-clock. No. 1,156,552; Oct. 12; Gaz. vol. 219; p. 452.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Rim-winding clock. No. 1,156,553; Oct. 12; Gaz. vol. 219; p. 453.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Interval-timer. No. 1,158,282; Oct. 26; Gaz. vol. 219; p. 1152.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Regulator for marine clocks. No. 1,159,081; Nov. 2; Gaz. vol. 220; p. 231.
- Porter, Wilson E., New Haven, and F. S. Cornwell, Woodmont, assignors to New Haven Clock Co., New Haven, Conn. Alarm-clock. No. 1,156,554; Oct. 12; Gaz. vol. 219; p. 453.
- Porterfield, Clarence D., New York, N. Y. Rail-anchor. No. 1,136,612; Apr. 20; Gaz. vol. 213; p. 979.
- Portheim, Emil von, Prague-Smichow, Austria-Hungary. Producing oxalic acid. No. 1,157,348; Oct. 19; Gaz. vol. 219; p. 763.
- Portheim, Emil von, Smichow, near Prague, Austria-Hungary. Manufacture of anhydrous hydrosulfites. No. 1,166,160; Dec. 28; Gaz. vol. 221; p. 1325.
- Portland Automobile Wheel Company, The. (See Lanyon, Samuel H., assignor.)
- Portman, John H., Pascagoula, Miss. Wrist-pin. No. 1,154,883; Sept. 28; Gaz. vol. 218; p. 980.
- Portmann, Roy W., Norwood, Ohio. Drink-mixing machine. No. 1,141,358; June 1; Gaz. vol. 215; p. 96.
- Posey, Edward V., San Jose, Cal. Plow. No. 1,164,862; Dec. 21; Gaz. vol. 221; p. 830.
- Positive Print Machine and Paper Co. (See Oiler, Frank E., assignor.)
- Positive Supply Company. (See Huber, Charles S., assignor.)
- Positive Tire Vulcanizer Company. (See Sandford, Wallace G., assignor.)
- Posner, August C., New Orleans, La. Dust-collector. No. 1,159,267; Nov. 2; Gaz. vol. 220; p. 298.
- Posse, Gustav E., assignor to The Jaenecke Printing Ink Co., Newark, N. J. Printing-ink. No. 1,142,365; June 8; Gaz. vol. 215; p. 486.
- Posselt, Ejnar, Denver, Colo. Grinding or lining plates. No. 1,128,901; Feb. 16; Gaz. vol. 211; p. 872.
- Possenti, Cinna, New York, N. Y. Burglar-alarm. No. 1,159,991; Nov. 9; Gaz. vol. 220; p. 589.
- Posson, Edward. (See Ekkind, Carl E., assignor.)
- Posson, Edward, Chicago, Ill. Car-framework. No. 1,144,378; June 29; Gaz. vol. 215; p. 1281.
- Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Shutter for gas-stove burners. No. 1,125,882; Jan. 19; Gaz. vol. 210; p. 1024.

- Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Lighting device for gas-stoves. No. 1,136,717; Apr. 20; Gaz. vol. 213; p. 1016.
- Possons, Minard A., Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo. Stove-handle. No. 1,136,718; Apr. 20; Gaz. vol. 213; p. 1017.
- Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas heating-stove. No. 1,137,529; Apr. 27; Gaz. vol. 213; p. 1343.
- Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-range door. No. 1,154,430; Sept. 21; Gaz. vol. 218; p. 798.
- Possons, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-range. No. 1,160,755; Nov. 16; Gaz. vol. 220; p. 913.
- Possons, Minard A., assignor of one-half to S. B. Williamson, Cleveland, Ohio. Sound-box for talking-machines. No. 1,166,254; Dec. 28; Gaz. vol. 221; p. 1360.
- Post, Carl G. von, Stockholm, Sweden. Digging-machine. No. 1,164,039; Dec. 14; Gaz. vol. 221; p. 502.
- Post, Charles B., New London, Ohio. Stair-rod. No. 1,142,366; June 8; Gaz. vol. 215; p. 486.
- Post Dater Stamp Co., The. (See Freeman, Horace L., assignor.)
- Post, Edward C., deceased; M. E. Post, executrix, Ann Arbor, Mich. Faucet. No. 1,134,157; Apr. 6; Gaz. vol. 213; p. 26.
- Post, Harry G. (See Guthrie and Post.)
- Post, Howell B., Lansdowne, assignor of one-half to W. P. Allen, Ardmore, Pa. Time-controller. No. 1,157,960; Oct. 26; Gaz. vol. 219; p. 1039.
- Post, Mary E., executrix. (See Post, Edward C.)
- Post, Wilhelmine, and A. Kleinfeldt, Hoboken, N. J. Cover for cooking utensils. No. 1,149,289; Aug. 10; Gaz. vol. 217; p. 389.
- Post, William L., Cold Spring, N. Y. Brake-shoe. No. 1,139,798; May 18; Gaz. vol. 214; p. 804.
- Postal Card Vending Machine Company. (See Turnquist and Rich, assignors.)
- Postel, Saul W., New York, N. Y. Collapsible swinging carrier for baby-carriages. No. 1,159,415; Nov. 9; Gaz. vol. 220; p. 382.
- Poston, Roy H. (See Forbes and Poston.)
- Postum Cereal Co. (See Martin, Frank B., assignor.)
- Posvar, Frank W., Pender, Nebr. Music-leaf turner. No. 1,128,185; Feb. 9; Gaz. vol. 211; p. 574.
- Pothemont, Edward S., assignor of one-half to E. A. Pothemont, New York, N. Y. Revolving ventilator. No. 1,128,271; Feb. 9; Gaz. vol. 211; p. 603.
- Pothemont, Eustace A. (See Pothemont, Edward S., assignor.)
- Pothier, Frederick G., Elmira, N. Y. Automobile-fender. No. 1,142,456; June 8; Gaz. vol. 215; p. 520.
- Potstada, George, San Francisco, Cal. Rotary weight-measurer. No. 1,164,959; Dec. 21; Gaz. vol. 221; p. 863.
- Potter, Charles A., Lakeport, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-attaching machine. No. 1,133,575; Mar. 30; Gaz. vol. 212; p. 1478.
- Potter, Charles W., Waltham, assignor to The Potter Press, Boston, Mass. Sales-book. No. 1,164,748; Dec. 21; Gaz. vol. 221; p. 789.
- Potter, E. L. (See Hickey, George M., assignor.)
- Potter, Earl C., Chicago, Ill. Packing or shipping box. No. 1,159,338; Nov. 2; Gaz. vol. 220; p. 323.
- Potter, Earl C., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 1,146,515; July 13; Gaz. vol. 216; p. 561.
- Potter, Earl C., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 1,146,516; July 13; Gaz. vol. 216; p. 562.
- Potter, Earl C., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 1,146,517; July 13; Gaz. vol. 216; p. 562.
- Potter, Earl C., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 1,158,715; Nov. 2; Gaz. vol. 220; p. 106.
- Potter, Earl C., Chicago, Ill., assignor to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 1,164,314; Dec. 14; Gaz. vol. 221; p. 597.
- Potter, Ellis M., New York, N. Y. Treating and roasting coffee. No. 1,147,888; July 27; Gaz. vol. 216; p. 1086.
- Potter, Ellis M., New York, N. Y. Vegetable compound for beverages and producing same. No. 1,150,303; Aug. 17; Gaz. vol. 217; p. 815.
- Potter, Emil. (See Potter, Leo, assignor.)
- Potter, Frank, Carthage, Mo. Automatic-disengaging motor-plow. No. 1,159,268; Nov. 2; Gaz. vol. 220; p. 298.
- Potter, George W. (See Alexander, Jesse, assignor.)
- Potter, Henry N., Hollywood, Cal. Separator for removing vegetable growths and coarse material from gravel and the like. No. 1,134,555; Apr. 6; Gaz. vol. 213; p. 173.
- Potter, Hiram J., et al. (See Greenwood, Edgar and J., assignors.) (Reissue.)
- Potter, James C., Pawtucket, R. I. Feed mechanism for carding-engines. No. 1,126,858; Feb. 2; Gaz. vol. 211; p. 69.
- Potter, James C., Pawtucket, R. I. Screw-machine. No. 1,136,719; Apr. 20; Gaz. vol. 213; p. 1017.
- Potter, James C., Providence, R. I. Turret-slide mechanism for turret-lathes. No. 1,140,479; May 25; Gaz. vol. 214; p. 1080.
- Potter and Johnston Machine Company. (See Chase, Herbert C., assignor.)
- Potter, Joseph L., Indianapolis, Ind. Excavating and conveying apparatus. No. 1,142,457; June 8; Gaz. vol. 215; p. 520.
- Potter, Joseph L., Indianapolis, Ind. Conveying apparatus. No. 1,145,438; July 6; Gaz. vol. 216; p. 162.
- Potter, Joseph L., Indianapolis, Ind. Excavating-bucket. No. 1,147,432; July 20; Gaz. vol. 216; p. 901.
- Potter, Leo, assignor to E. Potter, New York, N. Y. Cigarette-case. No. 1,133,745; Mar. 30; Gaz. vol. 212; p. 1540.
- Potter, Mildred K., Passaic, N. J. Handkerchief. No. 1,149,946; Aug. 10; Gaz. vol. 217; p. 626.
- Potter, Minnie F., and K. F. Robinson, Seattle, Wash. Wheel-chair. No. 1,164,863; Dec. 21; Gaz. vol. 221; p. 830.
- Potter, Nathaniel R., Rochester, N. Y. Internal-combustion engine. No. 1,161,335; Nov. 23; Gaz. vol. 220; p. 1167.
- Potter Press, The. (See Potter, Charles W., assignor.)
- Potter, Robert R., Mount Vernon, N. Y. Vehicle-spring. No. 1,127,511; Feb. 9; Gaz. vol. 211; p. 338.
- Potter, William G., Marblehead, Mass. Stop-valve. No. 1,139,221; May 11; Gaz. vol. 214; p. 565.
- Potter, William H., and J. E. Benson, assignors to The Nye Tool and Machine Works, Chicago, Ill. Die-threading machine. No. 1,137,020; Apr. 27; Gaz. vol. 213; p. 1161.
- Potter, Winfield S., Pittsburgh, Pa. Screen. No. 1,139,447; May 11; Gaz. vol. 214; p. 645.
- Potter, Winfield S., Pittsburgh, Pa. Woven-bar screen. No. 1,139,468; May 11; Gaz. vol. 214; p. 652.
- Potter, Winfield S., Pittsburgh, Pa. Woven screen. No. 1,139,469; May 11; Gaz. vol. 214; p. 652.
- Potterf, Albert A., Kansas City, Mo. Washboller. No. 1,130,430; Mar. 2; Gaz. vol. 212; p. 205.
- Potterf, Orlystis M., Larned, Kans., assignor to M. M. Henderson, Norwalk, Conn. Combination-garment. No. 1,144,240; June 22; Gaz. vol. 215; p. 1205.
- Potts, Benjamin C., Media, assignor to J. H. Coates, Berwyn, Pa. Hinge-support. No. 1,163,769; Dec. 14; Gaz. vol. 221; p. 408.
- Potts, James W., and J. H. Keene, St. Joseph, Mo. Disk-sharpener. No. 1,124,800; Jan. 12; Gaz. vol. 210; p. 606.
- Potts, Lemuel M. (See Stuckey, Samuel G., assignors.)
- Potts, Louis M., assignor, by mesne assignments, to A. McLanahan, Baltimore, Md. Selective electrical signaling. No. 1,135,321; Apr. 13; Gaz. vol. 213; p. 482.
- Potts, Louis M., assignor, by mesne assignments, to A. McLanahan, Baltimore, Md. Transmitting apparatus for electrical signaling. No. 1,135,322; Apr. 13; Gaz. vol. 213; p. 483.
- Potts, Louis M., assignor to A. McLanahan, Baltimore, Md. System of operating type-writers and the like. No. 1,135,613; Apr. 13; Gaz. vol. 213; p. 585.
- Potts, Louis M., assignor to A. McLanahan, Baltimore, Md. Telegraphy. No. 1,135,614; Apr. 13; Gaz. vol. 213; p. 586.
- Potts, Louis M., assignor, by mesne assignments, to A. McLanahan, Baltimore, Md. Selective electrical signaling. No. 1,135,920; Apr. 13; Gaz. vol. 213; p. 602.
- Potts, Louis M., assignor to A. McLanahan, Baltimore, Md. Selective electrical signaling apparatus. No. 1,151,216; Aug. 24; Gaz. vol. 217; p. 1187.
- Potts, Stacy, Vallejo, Cal. Educational souvenir. No. 1,127,276; Feb. 2; Gaz. vol. 211; p. 215.
- Potts, Thomas E., assignor of one-third to P. Madsen and one-third to M. Madsen, Los Angeles, Cal. Distillate-burner. No. 1,153,516; Sept. 14; Gaz. vol. 218; p. 448.
- Potts, Thomas E., assignor of one-third to P. Madsen and one-third to M. Madsen, Los Angeles, Cal. Panel stove-top. No. 1,153,517; Sept. 14; Gaz. vol. 218; p. 448.
- Potts, William F., Kansas City, Mo. Pipe-coupling. No. 1,147,889; July 27; Gaz. vol. 216; p. 1086.
- Pottsgrove, Philip N., Altoona, Pa. Traction device for automobiles. No. 1,142,727; June 8; Gaz. vol. 215; p. 609.
- Potuck, Paul, Ramsdell, Tex. Collapsible crate. No. 1,161,336; Nov. 23; Gaz. vol. 220; p. 1163.
- Poulallou, Frank N., Des Moines, Iowa. Illuminated sign. No. 1,139,222; May 11; Gaz. vol. 214; p. 566.
- Pouliot, George E., South Lawrence, Mass. Device for cooling and lubricating bearings. No. 1,166,255; Dec. 28; Gaz. vol. 221; p. 1360.
- Poullain, Augustin G., and D. H. J. Cornet, Paris, France. Optical lens. No. 1,143,316; June 15; Gaz. vol. 215; p. 859.
- Poulnot, Walter A., New York, N. Y. Hammock-support. No. 1,128,625; Feb. 16; Gaz. vol. 211; p. 775.
- Poulson, Lester C., and A. J. Buchanan, Birdsnest, Va. Mail-bag retainer for mail-cranes. No. 1,144,241; June 22; Gaz. vol. 215; p. 1206.
- Poulson, Oluff, Brigham, Utah. Drain-tile molder. No. 1,144,863; June 29; Gaz. vol. 215; p. 1447.

Alphabetical list of patentees—Continued.

- Poulton, Joseph W., Westmount, Quebec, Canada. Polishing-powder. No. 1,145,920; July 13; Gaz. vol. 216; p. 350.
- Pounder, George H., Fort Atkinson, Wis. Sectional draw-bar for harrows. No. 1,144,503; June 29; Gaz. vol. 215; p. 1323.
- Pounds, Virgil B. (See Glenn, John W., assignor.)
- Poundstone, George C., Chicago, Ill. Pan-lifter. No. 1,137,896; May 4; Gaz. vol. 214; p. 60.
- Pountney, Frank. (See Pugh and Pountney.)
- Poylotzky, Philip. Chicago, Ill. Starting device for internal-combustion engines. No. 1,156,173; Oct. 12; Gaz. vol. 219; p. 320.
- Powdered Coal Engineering and Equipment Company. (See Pruden, Harry B., assignor.)
- Powell, Benjamin A., Forest Home, Mich. Starting attachment for internal-combustion engines. No. 1,129,723; Feb. 23; Gaz. vol. 211; p. 1191.
- Powell, Charles H., Dalkena, Wash. Head-block. No. 1,142,981; June 15; Gaz. vol. 215; p. 741.
- Powell, Charles J., assignor of eight twenty-fifths to E. F. Falkenberg and five twenty-fifths to S. E. Brown, Chicago, Ill. Controlling mechanism. No. 1,164,749; Dec. 21; Gaz. vol. 221; p. 789.
- Powell, Dalton U., and J. W. Hardwick, Cambridge, Ohio. High-pressure pipe-saddle. No. 1,131,003; Mar. 9; Gaz. vol. 212; p. 438.
- Powell, David, Murray, Utah. Gate. No. 1,144,564; June 29; Gaz. vol. 215; p. 1343.
- Powell, Dwight, and C. O. Brage, Ralston, Nebr. Kitchen-cabinet. No. 1,124,655; Jan. 12; Gaz. vol. 210; p. 555.
- Powell, Edwin L., New Orleans, La., assignor to American Creosote Works. Preserved timber and making same. No. 1,151,039; Aug. 24; Gaz. vol. 217; p. 1127.
- Powell, Frank D., Boston, Mass. Osteopathic apparatus. No. 1,137,898; May 4; Gaz. vol. 214; p. 60.
- Powell, Frank D., assignor to The Lamson Company, Boston, Mass. Store-service apparatus and the like. No. 1,137,897; May 4; Gaz. vol. 214; p. 60.
- Powell, Frederick C., *et al.* (See Clark, Harry W., assignor.)
- Powell, Henry A. (See Pilcher, Walter F., assignor.)
- Powell, James F., Flint, Mich. Key-fastener. No. 1,162,647; Nov. 30; Gaz. vol. 220; p. 1660.
- Powell, John R., New York, N. Y. Carpet-cleaning machine. No. 1,155,957; Oct. 5; Gaz. vol. 219; p. 220.
- Powell, Joseph M., Brooklyn, Ind. Cutter for shale-excavators. No. 1,129,517; Feb. 23; Gaz. vol. 211; p. 1123.
- Powell, Luther A., Warrior, Ala. Sad-iron. No. 1,146,650; July 13; Gaz. vol. 216; p. 607.
- Powell, Peter, Cambridge, assignor to Standard Tire and Rubber Company, Boston, Mass. Distention device for tubular structures. No. 1,140,527; May 25; Gaz. vol. 214; p. 1098.
- Powell, Richard G., Lewistown, Pa. Rail joint and fastener. No. 1,154,724; Sept. 28; Gaz. vol. 218; p. 927.
- Powell, Sallie O. (See Breslove and Wetzig, assignors.)
- Powell, Walter, E. B., St. Louis, Mo. Hydrocarbon-engine. No. 1,162,710; Nov. 30; Gaz. vol. 220; p. 1683.
- Powell, William A., Bay City, Mich. Valve-grinding machine. No. 1,151,966; Aug. 31; Gaz. vol. 217; p. 1489.
- Powell, William B. (See Wightman and Powell.)
- Powell, William C., St. Joseph, Mo. Garment. No. 1,151,610; Aug. 31; Gaz. vol. 217; p. 1367.
- Powell, William J., Coffeyville, Kans. Plow attachment. No. 1,125,883; Jan. 19; Gaz. vol. 210; p. 1025.
- Powell, William J., Ocean City, N. J. Bowling game. No. 1,133,576; Mar. 30; Gaz. vol. 212; p. 1479.
- Powell, William O., Chester, Pa. Pipe-bending machine. No. 1,136,364; Apr. 20; Gaz. vol. 213; p. 890.
- Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,165,709; Dec. 28; Gaz. vol. 221; p. 1165.
- Power, Alexander C., Pendleton, Oreg. Switch-box. No. 1,141,359; June 1; Gaz. vol. 215; p. 97.
- Power, Harold J., Everett, Mass. Tuning telephone-receivers. No. 1,138,147; May 4; Gaz. vol. 214; p. 150.
- Power, Howard W., Davenport, Iowa. Folding washbench. No. 1,153,336; Sept. 14; Gaz. vol. 218; p. 381.
- Power, Jeffrey J., Madison, assignor to J. I. Case Threshing Machine Company, Racine, Wis. Corn-husking machine. No. 1,133,817; Mar. 30; Gaz. vol. 212; p. 1566.
- Power, John L. (See Provost, Charles A., assignor.)
- Power, John L., Trenton, N. J. Adjustable portable electric-light support or base. No. 1,162,394; Nov. 30; Gaz. vol. 220; p. 1578.
- Power, John W., Peabody, Mass. Clean-out fitting for pipes. No. 1,149,465; Aug. 10; Gaz. vol. 217; p. 451.
- Power Manufacturing Company, The. (See Primm, John M., assignor.)
- Power and Mining Machinery Company. (See Bernhard and Sholl, assignors.)
- Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Intermittent driving mechanism for motion-picture machines. No. 1,129,121; Feb. 23; Gaz. vol. 211; p. 985.
- Power, Ralph S., Cliftondale, Mass. Skiving-machine. No. 1,162,395; Nov. 30; Gaz. vol. 220; p. 1578.
- Power, Scott T., Zanesville, Ohio. Subcar. No. 1,149,407; Aug. 10; Gaz. vol. 217; p. 431.
- Power Specialty Company. (See Foster, Pell W., assignor.)
- Power Specialty Company. (See Primrose, John, assignor.)
- Power, Walter L., deceased; J. J. Murray, administrator, Springfield, Mass. Erecting staging. No. 1,134,061; Mar. 30; Gaz. vol. 212; p. 1646.
- Power Washing Machine Co. (See Altorfer, Alpheus W., assignor.)
- Powers Accounting Machine Company. (See Powers, James, assignor.)
- Powers, Anthony J., Meridian, Miss. Tamping-machine. No. 1,129,230; Feb. 23; Gaz. vol. 211; p. 1022.
- Powers, Clarence E., Monroe township, Madison county, assignor of one-third to W. C. Grandfield, Lorimer, Iowa. Harrow attachment for corn-planters. No. 1,136,975; Apr. 27; Gaz. vol. 213; p. 1143.
- Powers, Elmer G., Ogden, Iowa. Attachment for milking-pails. No. 1,140,528; May 25; Gaz. vol. 214; p. 1098.
- Powers, Fred, Marshfield, Oreg. Safety choker-book. No. 1,144,430; June 29; Gaz. vol. 215; p. 1299.
- Powers, George C., Dayton, Ohio. Device for surface grading. No. 1,123,590; Jan. 5; Gaz. vol. 210; p. 134.
- Powers, George G., assignor to Union Wire Mattress Company, Chicago, Ill. Bed-spring. No. 1,151,936; Sept. 28; Gaz. vol. 218; p. 999.
- Powers, Irving D., and J. W. Burns, Los Angeles, Cal. Means for supplying water to fuel gauge of internal-combustion motors. No. 1,133,665; Mar. 30; Gaz. vol. 212; p. 1512.
- Powers, James, assignor, by mesne assignments, to Powers Accounting Machine Company, New York, N. Y. Perforating-machine. No. 1,138,314; May 4; Gaz. vol. 214; p. 208.
- Powers, Lathan L., Dungannon, Va. Lifter for agricultural implements. No. 1,159,269; Nov. 2; Gaz. vol. 220; p. 299.
- Powers, Leonard J., assignor to The Powers Manufacturing Company, Waterloo, Iowa. Forming curved tubular casings for horse-collars. No. 1,134,289; Apr. 6; Gaz. vol. 213; p. 76.
- Powers Manufacturing Company, The. (See Powers, Leonard J., assignor.)
- Powers Photo-Engraving Company. (See Leitner, Emil, assignor.)
- Powers Regulator Company, The. (See Snediker, Morton O., assignor.)
- Powers, Robert R., Overbrook, Okla. Nut-lock. No. 1,134,006; Mar. 30; Gaz. vol. 212; p. 1626.
- Powers, Timothy B., New York, N. Y. Weighing-scale. No. 1,159,416; Nov. 9; Gaz. vol. 220; p. 333.
- Pownall, Henry D., Canton, Ohio. Ice-machine. (Re-issue.) No. 14,022; Nov. 30; Gaz. vol. 220; p. 1693.
- Pozzi, Romeo, Oakland, Cal. Flushing apparatus. No. 1,155,005; Sept. 28; Gaz. vol. 218; p. 1021.
- Practical Novelty Company. (See Kent, George G., assignor.)
- Praeger, Ewald, San Antonio, Tex., assignor to Richmond Cedar Works, Richmond, Va. Holder for ice-cream freezers. (Re-issue.) No. 14,006; Nov. 2; Gaz. vol. 220; p. 327.
- Praetorius, Paul, Stettin, Germany. Starting and reversing device for marine internal-combustion engines. No. 1,165,539; Dec. 28; Gaz. vol. 221; p. 1104.
- Praetorius, Richard L., Smithville, Tex. Switch-stand. No. 1,157,638; Oct. 19; Gaz. vol. 219; p. 860.
- Praetisch, August B. (See Fuller, Percy W., assignor.)
- Praher, Louis B., Massapequa, N. Y. Bag-jaw fastener. No. 1,143,226; June 15; Gaz. vol. 215; p. 828.
- Prahl, Hugo, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Combined time and percussion fuse. No. 1,144,242; June 22; Gaz. vol. 215; p. 1206.
- Prahl, Hugo, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Percussion-fuse with an adjustable retardation device. No. 1,144,243; June 22; Gaz. vol. 215; p. 1206.
- Prahl, Hugo, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Clockwork-escapement, especially applicable to mechanical time-fuses. No. 1,148,402; July 27; Gaz. vol. 216; p. 1269.
- Praker, Robert C., St. Clair, Mich. Cracker-hopper. No. 1,125,884; Jan. 19; Gaz. vol. 210; p. 1025.
- Prall, Claude C., Trenton, N. J., assignor, by mesne assignments, to The Anglo-American Patent Bottle Company Limited, London, England. Non-refillable bottle. No. 1,155,616; Oct. 5; Gaz. vol. 219; p. 100.
- Prall, James H., Lacona, Iowa. Automatic train-stop. No. 1,129,724; Feb. 23; Gaz. vol. 211; p. 1191.
- "Prana" Carbonic Syphon Company. (See Read, Harry V. R., assignor.)
- France, Albert J., assignor to Murchey Machine and Tool Co., Detroit, Mich. Screw-cutting tap. No. 1,132,536; Mar. 16; Gaz. vol. 212; p. 1018.
- Prandoni, Charles L., Hoboken, N. J. Leveling instrument for builders. No. 1,133,501; Mar. 30; Gaz. vol. 212; p. 1450.
- Pranis, Stanislaus, Newark, N. J. Shade-bracket. No. 1,149,466; Aug. 10; Gaz. vol. 217; p. 451.
- Frankard, C. M., *et al.* (See Kaufman, Alfred, assignor.)

- Prankard, Charles J., Jr., Troy, N. Y. Collar-folding machine. No. 1,153,337; Sept. 14; Gaz. vol. 218; p. 381.
- Prante, Frederick B., Humpulips, assignor of one-half to M. Spinner, Gate, Wash. Door-securer. No. 1,150,621; Aug. 17; Gaz. vol. 217; p. 925.
- Prat, Emile, assignor to L. Prat, Paris, France. Chimney draft device. No. 1,151,611; Aug. 31; Gaz. vol. 217; p. 1367.
- Prat, Louis. (See Prat, Emile, assignor.)
- Prater, William T., Bloomfield, Mo. Safety-stirrurp. No. 1,124,801; Jan. 12; Gaz. vol. 210; p. 606.
- Prather, Porter. (See Ward and Clay, assignors.)
- Prather, Reece F., assignor of one-half to W. W. Karstens, San Francisco, Cal. Ball for flagpoles. No. 1,124,656; Jan. 12; Gaz. vol. 210; p. 555.
- Pratt, Allison A., and J. Zollinger, assignors of one-third to A. A. Pratt, one-third to J. Zollinger, and one-third to H. J. Hemmens, New York, N. Y. Siphon-head. No. 1,137,530; Apr. 27; Gaz. vol. 213; p. 1344.
- Pratt, Alphonso C., Montclair, N. J. Machine for making link mesh. No. 1,139,799; May 18; Gaz. vol. 214; p. 805.
- Pratt, Alphonso C., Glen Ridge, N. J. Machine for making link mesh. No. 1,144,724; June 29; Gaz. vol. 215; p. 1399.
- Pratt, Austin A., Los Angeles, Cal. Voltate body-battery. No. 1,123,370; Jan. 5; Gaz. vol. 210; p. 60.
- Pratt, Austin J. (See Moore and Pratt.)
- Pratt, Charles E., Chicago, Ill. Fare-box. No. 1,127,675; Feb. 9; Gaz. vol. 211; p. 391.
- Pratt, Charles R., Montclair, N. J. Controlling apparatus. No. 1,165,121; Dec. 21; Gaz. vol. 221; p. 921.
- Pratt, Charles R., Montclair, N. J., assignor to The Universal Speed Control Company. Rotary piston-power transmission. No. 1,137,283; Apr. 27; Gaz. vol. 213; p. 1257.
- Pratt, Charles R., Montclair, N. J., assignor to The Universal Speed Control Company. Rotary-piston engine. No. 1,158,554; Nov. 2; Gaz. vol. 220; p. 52.
- Pratt, Charles R., Montclair, N. J., assignor to The Universal Speed Control Company. Electric control for delivery of power. No. 1,159,082; Nov. 2; Gaz. vol. 220; p. 232.
- Pratt, Charles R., Montclair, N. J., assignor to The Universal Speed Control Company. Pump or motor. No. 1,163,849; Dec. 14; Gaz. vol. 221; p. 436.
- Pratt, Charles R., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Hydraulic elevator. No. 1,156,433; Oct. 12; Gaz. vol. 219; p. 411.
- Pratt, Eli, assignor of one-half to O. Duquette, Bay City, Mich. Curtain-pole-supporting attachment. No. 1,165,625; Dec. 28; Gaz. vol. 221; p. 1135.
- Pratt, George L., Atlanta, Ga. Manufacturing and curing acid phosphates and the like. No. 1,137,531; Apr. 27; Gaz. vol. 213; p. 1344.
- Pratt, George R., Winnipeg, Manitoba, Canada. Grain-door. No. 1,127,089; Feb. 2; Gaz. vol. 211; p. 150.
- Pratt, Howard V. D. (See Singer and Pratt.)
- Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Harvesting ice. No. 1,138,411; May 4; Gaz. vol. 214; p. 244.
- Pratt, James R., Denison, Tex. Electrode-holder. No. 1,166,256; Dec. 28; Gaz. vol. 221; p. 1361.
- Pratt, Joseph C., Philadelphia, Pa. Stop mechanism for textile-machines. No. 1,140,063; May 18; Gaz. vol. 214; p. 899.
- Pratt, Louis L., Philadelphia, Pa. Pump. No. 1,139,071; May 11; Gaz. vol. 214; p. 514.
- Pratt, Louis L., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Condenser. No. 1,145,334; July 6; Gaz. vol. 216; p. 124.
- Pratt, Philip W., Boston, Mass. Elastic tire. No. 1,162,188; Nov. 30; Gaz. vol. 220; p. 1507.
- Pratt & Whitney Company. (See Corey, William W., assignor.)
- Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
- Pratt & Whitney Company. (See Müller, Friederich, assignor.)
- Pratt, Willis H., assignor to The Arrow Electric Company, Hartford, Conn. Snap-switch base. No. 1,135,138; Apr. 13; Gaz. vol. 213; p. 421.
- Pray, Amelia F. (See Zega, Louis C., assignor.)
- Pre-Heated Air Company. (See Tacy, Samuel H., assignor.)
- Preator, Eugene, Burlington, Wyo. Wire-stretching machine. No. 1,142,908; June 15; Gaz. vol. 215; p. 714.
- Preble, Edwin N., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,149,290; Aug. 10; Gaz. vol. 217; p. 390.
- Preble, Henry T., Berkeley, Cal. Internal-combustion engine. No. 1,149,984; Aug. 10; Gaz. vol. 217; p. 640.
- Precision Thermometer and Instrument Company. (See Waser, Carl R., assignor.)
- Predonzan, Giovanni, Trieste, Austria-Hungary. Movable extension-ladder. No. 1,139,996; May 18; Gaz. vol. 214; p. 874.
- Prein, Emil, Hanover, assignor to Prein-Gewebe Actien-Gesellschaft, Hanover-Linden, Germany. Apparatus for cleaning yarn. No. 1,144,864; June 29; Gaz. vol. 215; p. 1447.
- Prein-Gewebe Actien-Gesellschaft. (See Prein, Emil, assignor.)
- Preks, Tönis, St. Petersburg, Russia. Apparatus for treating cast ingots. No. 1,134,348; Apr. 6; Gaz. vol. 213; p. 97.
- Premier Manufacturing Company. (See Mosman, Charles F., assignor.)
- Prendergast, John B. (See Proctor and Prendergast.)
- Prendergast, Richard J. (See Samson and Prendergast.)
- Prenovich, Israel N., New York, N. Y. Lady's hat-pin. No. 1,144,565; June 29; Gaz. vol. 215; p. 1343.
- Prentice, George E., assignor to The G. E. Prentice Manufacturing Company, New Britain, Conn. Belt-buckle. No. 1,131,550; Mar. 9; Gaz. vol. 212; p. 626.
- Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Beveling-machine. No. 1,128,359; Feb. 16; Gaz. vol. 211; p. 683.
- Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,131,415; Mar. 9; Gaz. vol. 212; p. 580.
- Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,131,732; Mar. 16; Gaz. vol. 212; p. 724.
- Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Welt laying and attaching machine. No. 1,142,119; June 8; Gaz. vol. 215; p. 401.
- Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,147,187; July 20; Gaz. vol. 216; p. 813.
- Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 1,159,083; Nov. 2; Gaz. vol. 220; p. 232.
- Prenzel, Adam H., Halifax, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Making stitch-down shoes. No. 1,159,084; Nov. 2; Gaz. vol. 220; p. 233.
- Prepayment Car Sales Company. (See Hunicke, Clarence C., assignor.)
- Prepayment Car Sales Company. (See Paul, Abram F., assignor.)
- Prepayment Car Sales Company. (See Paul and Tanner, assignors.)
- Prepayment Car Sales Company. (See Tanner, Arnold J., assignor.)
- Presley, Edwin O., New York, N. Y. Button. No. 1,137,789; May 4; Gaz. vol. 214; p. 24.
- Prescott-Adams Table Co. (See Prescott, Ernest C., assignor.)
- Prescott, Arthur T., East Orange, N. J., assignor to George H. Frothingham Company, New York, N. Y. Clutch for power-winchies. No. 1,158,555; Nov. 2; Gaz. vol. 220; p. 52.
- Prescott, De Witt C., Chicago, Ill. Valve-controller. No. 1,142,054; June 8; Gaz. vol. 215; p. 377.
- Prescott, Ernest C., assignor to Prescott-Adams Table Co., Haverhill, Mass. Combined table and ironing-board. No. 1,131,267; Mar. 9; Gaz. vol. 212; p. 529.
- Prescott, Ernest C., assignor to Prescott-Adams Table Co., Haverhill, Mass. Combined table and ironing-board. No. 1,131,954; Mar. 16; Gaz. vol. 212; p. 805.
- Prescott, Samuel J. (See Nosworthy and Prescott.)
- Prescott, Sydney I., Brooklyn, N. Y. Carbureter. No. 1,143,227; June 15; Gaz. vol. 215; p. 828.
- Prescott, Sydney I., Brooklyn, assignor to Motorflex Equipment Company, New York, N. Y. Universal joint. No. 1,141,211; June 1; Gaz. vol. 215; p. 43.
- Press, William A. (See Wetmore, James B., assignor.)
- Pressed Metal Radiator Company. (See Sonneborn, Charles, assignor.)
- Pressed Prism Plate Glass Company. (See Ross, Myron A., assignor.)
- Pressed Steel Car Company. (See Anderson, John P., assignor.)
- Pressed Steel Car Company. (See Blest, Minot C., assignor.)
- Pressed Steel Car Company. (See Elverson, Howard W., assignor.)
- Pressed Steel Car Company. (See Lindström, Charles A., assignor.)
- Pressed Steel Car Company. (See Lindström and Lockwood, assignors.)
- Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)
- Pressed Steel Car Company. (See Streib, John F., assignor.)
- Pressed Steel Products Company. (See Mittinger, George E., assignor.)
- Pressed Steel Truck Company. (See Peterson, Edwin L., assignor.)
- Presser, Frederic W. (See Wagner and Presser.)
- Presson, Alfred E., Gloucester, Mass. Collapsible bathtub. No. 1,139,576; May 18; Gaz. vol. 214; p. 725.
- Prest-O-Lite Company, The. (See Allison, James A., assignor.)
- Prest-O-Lite Company, The. (See Allison and Skinner, assignors.)
- Pretera, Domenick, Bradford, Pa. Window sash and frame. No. 1,132,382; Mar. 16; Gaz. vol. 212; p. 962.
- Presto Inter-Rim Company. (See Lewis, James C., assignor.)

Alphabetical list of patentees—Continued.

- Preston, Albert F., East Boston, Mass. Binding-machine. No. 1,152,903; Sept. 7; Gaz. vol. 218; p. 192.
- Preston, Andrew W., *et al.*, trustees. (See Lee and Monks, assignors.)
- Preston, Charles A., *et al.* (See Bennett, Edward O., assignor.)
- Preston, Frank W., Houston, Tex. Engine-canopy for motor-vehicles. No. 1,164,864; Dec. 21; Gaz. vol. 221; p. 830.
- Preston, Frederick A., Highland Park, assignor to The P. & M. Co., Chicago, Ill. Anticreeper. No. 1,133,399; Mar. 30; Gaz. vol. 212; p. 1415.
- Preston, Frederick A., Highland Park, assignor to The P. & M. Co., Chicago, Ill. Anticreeper. No. 1,152,760; Sept. 7; Gaz. vol. 218; p. 139.
- Preston, Frederick A., Highland Park, assignor to The P. & M. Co., Chicago, Ill. Anticreeper. No. 1,163,172; Dec. 7; Gaz. vol. 221; p. 154.
- Preston, James, deceased, Tuckahoe, N. Y.; L. Preston, executrix. Cigarette-making device. No. 1,136,720; Apr. 20; Gaz. vol. 213; p. 1017.
- Preston, Lucy, executrix. (See Preston, James, assignor.)
- Preston, Thomas O., Staunton, Va. Device for stopping runaway horses. No. 1,160,318; Nov. 16; Gaz. vol. 220; p. 755.
- Preston, William H., Bangor, Wis. Tractable means for vehicles. No. 1,151,389; Aug. 24; Gaz. vol. 217; p. 1243.
- Preuss, Henry A., Hamburg, Germany, assignor of forty one-hundredths to F. Vilmar, Rio de Janeiro, Brazil. Means for operatively connecting a gramophone with an automatic musical instrument. No. 1,145,792; July 6; Gaz. vol. 216; p. 286.
- Preuss, Henry A., Hamburg, Germany, assignor of forty one-hundredths to F. Vilmar, Rio de Janeiro, Brazil. Clutch mechanism for phonographs. No. 1,145,793; July 6; Gaz. vol. 216; p. 286.
- Preuss, William F. (See Paul and Preuss.)
- Prevost, Dwight F., New York, N. Y. Tree-handling apparatus. No. 1,138,972; May 11; Gaz. vol. 214; p. 477.
- Prevosto, Edwards, *et al.* (See Boldizzoni and Bosio, assignors.)
- Pribil, Alexis R., Detroit, Mich., assignor to G. W. Bowen, Auburn, N. Y. Grease-cup. No. 1,149,539; Aug. 10; Gaz. vol. 217; p. 477.
- Pribil, Alexis R., Detroit, Mich., assignor to G. W. Bowen, Auburn, N. Y. Grease-cup. No. 1,150,146; Aug. 17; Gaz. vol. 217; p. 759.
- Pribil, Alexis R., Detroit, Mich., assignor, by mesne assignments, to G. W. Bowen, Auburn, N. Y. Grease-cup. No. 1,163,850; Dec. 14; Gaz. vol. 221; p. 437.
- Pribis, Rudolf, assignor of one-half to S. Vass, New York, N. Y. Garbage-receptacle. No. 1,130,535; Mar. 2; Gaz. vol. 212; p. 244.
- Price, Albert A., London, England. Dynamo-electric machine. No. 1,131,551; Mar. 9; Gaz. vol. 212; p. 626.
- Price, Albert E. (See Jones and Price.)
- Price, Aubrey L., Waverly, New South Wales, Australia. Collar. No. 1,153,134; Sept. 7; Gaz. vol. 218; p. 271.
- Price, Bingham S., Rawlins, Wyo. Valve. No. 1,140,712; May 25; Gaz. vol. 214; p. 1158.
- Price, Bingham S., Rawlins, Wyo. Pressure-valve. No. 1,140,713; May 25; Gaz. vol. 214; p. 1158.
- Price-Campbell Cotton Picker Corporation. (See Beach, Edward S., assignor.)
- Price-Campbell Cotton Picker Corporation. (See Calderwood, Benjamin C., assignor.)
- Price, Charles, Clinton, Mass. Interchangeable-boring-bar holder. No. 1,125,170; Jan. 19; Gaz. vol. 210; p. 772.
- Price, Charles W., St. Louis, Mo. Shock-absorber. No. 1,141,264; June 1; Gaz. vol. 215; p. 62.
- Price, David R., Lynn, Mass., assignor to General Electric Company. Frequency-indicator. No. 1,156,491; Oct. 12; Gaz. vol. 219; p. 432.
- Price, Edward W., Toronto, Ontario, Canada. Resilient tire. No. 1,161,247; Nov. 23; Gaz. vol. 220; p. 1133.
- Price, Ernest, Washington, D. C., assignor to Mergenthaler Linotype Company. Slug-casting machine. No. 1,151,612; Aug. 31; Gaz. vol. 217; p. 1368.
- Price, Ernest W. (See Langley and Price.)
- Price, F. L., *et al.* (See Norwood, Carrie M., assignor.)
- Price, Frank L. (See Mansbach, Conrad B., assignor.)
- Price, Gomer W., Oakland, assignor to H. L. Smith, San Rafael, Cal. Steering wheel for traction-engines. No. 1,151,713; Aug. 31; Gaz. vol. 217; p. 1401.
- Price, Gomer W., Oakland, assignor to H. L. Smith, San Rafael, Cal. Changeable-speed-transmission mechanism. No. 1,153,569; Sept. 14; Gaz. vol. 218; p. 467.
- Price, Gomer W., Oakland, assignor to H. L. Smith, San Rafael, Cal. Oscillating self-laying track for traction-engines. No. 1,153,570; Sept. 14; Gaz. vol. 218; p. 467.
- Price, Harry L., and G. J. Cartwright, Sydney, New South Wales, Australia. Smoke-consuming furnace. No. 1,135,842; Apr. 13; Gaz. vol. 213; p. 667.
- Price, John E. and W. R., and C. L. Hildreth, Covington, Ky. Smoke-consuming apparatus for locomotive and other boilers. No. 1,159,085; Nov. 2; Gaz. vol. 220; p. 233.
- Price, John F., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-vehicles. No. 1,164,209; Dec. 14; Gaz. vol. 221; p. 559.
- Price, Jonathan D., Chicago, Ill. Pump-actuating mechanism. No. 1,165,021; Dec. 21; Gaz. vol. 221; p. 885.
- Price, Joseph H., Lombard, assignor of one-half to Chicago Paper Company, Chicago, Ill. Typographical numbering-machine. No. 1,155,369; Oct. 5; Gaz. vol. 219; p. 16.
- Price, Judson. (See Holt, George W., assignor.)
- Price, Norman. (See Cripps and Price.)
- Price, R. L. (See Davis, Otis L., assignor.)
- Price, Raymond B. (See Warner and Price.)
- Price, Raymond B., Mishawaka, Ind. Treatment of materials. No. 1,132,971; Mar. 23; Gaz. vol. 212; p. 1227.
- Price, Raymond B., Mishawaka, Ind. Manufacturing articles from plastic materials. No. 1,152,834; Sept. 7; Gaz. vol. 218; p. 167.
- Price, Raymond B., Mishawaka, Ind. Treating plastic materials. No. 1,152,835; Sept. 7; Gaz. vol. 218; p. 167.
- Price, Raymond B., Mishawaka, Ind. Treating combined plastic and fabric articles. No. 1,152,836; Sept. 7; Gaz. vol. 218; p. 168.
- Price, Raymond B., New York, N. Y. Treating plastic materials. No. 1,152,837; Sept. 7; Gaz. vol. 218; p. 168.
- Price, Raymond B., New York, N. Y. Making vulcanized rubber products. No. 1,152,838; Sept. 7; Gaz. vol. 218; p. 168.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Apparatus for treating plastic material. No. 1,156,096; Oct. 12; Gaz. vol. 219; p. 295.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Treating rubber and rubber-like materials. No. 1,158,843; Nov. 2; Gaz. vol. 220; p. 153.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Treatment of plastic material. No. 1,161,965; Nov. 30; Gaz. vol. 220; p. 1430.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Manufacture of vulcanized articles. No. 1,161,966; Nov. 30; Gaz. vol. 220; p. 1430.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Producing vulcanized plastic articles. No. 1,161,967; Nov. 30; Gaz. vol. 220; p. 1431.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Manufacture of rubber articles. No. 1,162,397; Nov. 30; Gaz. vol. 220; p. 1579.
- Price, Raymond B., Mishawaka, Ind., assignor to Rubber Regenerating Company. Antislipping and antiwearing material. No. 1,162,396; Nov. 30; Gaz. vol. 220; p. 1578.
- Price, Roy D., Waggoner, Ill. Decarbonizing compound. No. 1,148,403; July 27; Gaz. vol. 216; p. 1269.
- Price and Teeple Piano Company. (See Freborg, Charles, assignor.)
- Price, Thomas M., and J. W. Tillman, Cooper, Tex. Wire clothes-pin. No. 1,156,810; Oct. 12; Gaz. vol. 219; p. 541.
- Price, Twigg, Bucyrus, Ohio. Lawn-mower. No. 1,144,244; June 22; Gaz. vol. 215; p. 1206.
- Price, Walter H., Moores, Pa. Ground-clamp. No. 1,135,717; Apr. 13; Gaz. vol. 213; p. 623.
- Price, William G., New Castle, Pa. Slack-adjuster. No. 1,157,721; Oct. 26; Gaz. vol. 219; p. 956.
- Price, William G., New Castle, assignor of one-half to Kay & Totten, Pittsburgh, Pa. Apparatus for discharging explosives from flying-machines. No. 1,151,967; Aug. 31; Gaz. vol. 217; p. 1490.
- Price, William J., assignor of one-half to E. J. Steckle, Dixon, Ill. Shaft-coupling. No. 1,158,844; Nov. 2; Gaz. vol. 220; p. 153.
- Price, William R. (See Price and Hildreth.)
- Price, William W. (See Jones and Price.)
- Priddy, Miels H., assignor of two-fifths to H. M. McKee, Fresno, Cal. Operating mechanism for car-doors. No. 1,154,053; Sept. 21; Gaz. vol. 218; p. 669.
- Pride, John P., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Fastening-inserting machine. No. 1,161,074; Nov. 23; Gaz. vol. 220; p. 1069.
- Pridgen, Wiley H., Creek, N. C. Machine for heading and boring basket-bottoms. No. 1,139,223; May 11; Gaz. vol. 214; p. 566.
- Pridham, Edwin S. (See Jensen and Pridham.)
- Pridmore, Emily M., *et al.* (See Magnuson, Alfred V., assignor.)
- Pridmore, Frank A., London, England. Structure for educational and recreative purposes. No. 1,137,167; Apr. 27; Gaz. vol. 213; p. 1214.
- Pridmore, Henry A., *et al.* (See Magnuson, Alfred V., assignor.)
- Pries, Herman, Michigan City, Ind. Brake-shaft. No. 1,137,082; Apr. 27; Gaz. vol. 213; p. 1183.
- Priest, John, Philadelphia, Pa. Vacuum-producing apparatus. No. 1,131,082; Mar. 9; Gaz. vol. 212; p. 464.
- Priest, William J., Brooklyn, N. Y. Railway fog-signal. No. 1,131,552; Mar. 9; Gaz. vol. 212; p. 626.
- Priestly, Floyd W., assignor of one-half to S. F. Priestly, Stockton, Cal. Bandage-roll cutter. No. 1,146,098; July 13; Gaz. vol. 216; p. 413.
- Priestly, S. F. (See Priestly, Floyd W., assignor.)

- Prifold, George, Linwood, assignor to F. B. Foster, Haverford, Pa. Block-printing machine. No. 1,145,794; July 6; Gaz. vol. 216; p. 287.
- Prigga, Matthis, Moscow, Russia. Liquid-fuel sprayer for furnaces. No. 1,151,283; Aug. 24; Gaz. vol. 217; p. 1209.
- Prime, Daniel N., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Fastener-setting machine. No. 1,136,166; Apr. 20; Gaz. vol. 213; p. 819.
- Prime, Daniel N., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting-die. No. 1,150,147; Aug. 17; Gaz. vol. 217; p. 759.
- Primm, John L. (See Hart, Salem R., assignor.)
- Primm, John M., assignor to The Power Manufacturing Company, Lima, Ohio. Internal-combustion engine. No. 1,150,225; Aug. 17; Gaz. vol. 217; p. 787.
- Primrose, John, New York, N. Y. Locomotive-superheater. No. 1,152,839; Sept. 7; Gaz. vol. 218; p. 168.
- Primrose, John, Dongan Hills, N. Y. Superheater. No. 1,157,722; Oct. 26; Gaz. vol. 219; p. 956.
- Primrose, John, New York, N. Y., assignor to Power Specialty Company. Superheater-header. No. 1,129,122; Feb. 23; Gaz. vol. 211; p. 985.
- Primrose, John, Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Steam-superheater. No. 1,132,211; Mar. 16; Gaz. vol. 212; p. 899.
- Prims, Joseph C., assignor to The A. J. Deer Co., Inc., Hornell, N. Y. Coffee-roaster. No. 1,160,650; Nov. 16; Gaz. vol. 220; p. 875.
- Prims, Joseph C., assignor to Swift Machinery Manufacturing Company, Hornell, N. Y. Leather-skiving machine. No. 1,127,512; Feb. 9; Gaz. vol. 211; p. 338.
- Prims, Joseph C., and W. F. Smith, assignors to Duplex Molding Sander Company, Hornell, N. Y. Sanding and polishing machine. No. 1,124,657; Jan. 12; Gaz. vol. 210; p. 556.
- Prina, Frank. (See Prina, William and F.)
- Prina, William, West Hoboken, and F. Prina, Jersey City, N. J. Electrical amusement device. No. 1,151,390; Aug. 24; Gaz. vol. 217; p. 1243.
- Prince, Edward E., Ottawa, Ontario, Canada. Fishway. No. 1,157,639; Oct. 19; Gaz. vol. 219; p. 861.
- Prince, Helen A., Portland, Me. Surgical corset. No. 1,137,899; May 4; Gaz. vol. 214; p. 61.
- Prince, James, Los Angeles, Cal. Inking mechanism for printing-presses. No. 1,130,334; Mar. 2; Gaz. vol. 212; p. 171.
- Prince, Llewellyn E., West Warren, and F. J. Merrill, Windham, Pa. Spoke. No. 1,156,811; Oct. 12; Gaz. vol. 219; p. 541.
- Prince, Paul, Harrah, Okla. Knee rest for cotton-pickers. No. 1,138,973; May 11; Gaz. vol. 214; p. 478.
- Prindle, Charles A., Chicago, Ill. Chain. No. 1,135,843; Apr. 13; Gaz. vol. 213; p. 667.
- Prindle, Edwin J., executor. (See Von Wilmowsky, Edwin F.)
- Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to United Shoe Machinery Company. Last-wheel. No. 1,146,022; July 13; Gaz. vol. 216; p. 386.
- Prindle, Henry U., Oakland, Cal. Pulverizing-mill. No. 1,158,283; Oct. 26; Gaz. vol. 219; p. 1152.
- Prindle, Henry U., San Francisco, Cal. Elevating and dumping apparatus. No. 1,165,284; Dec. 21; Gaz. vol. 221; p. 977.
- Prindle, William E., Manitowoc, Wis. Rotary drier. No. 1,126,077; Jan. 26; Gaz. vol. 210; p. 1130.
- Pringle, John H., Sac City, Iowa. Shaft-brake mechanism. No. 1,136,266; Apr. 20; Gaz. vol. 213; p. 855.
- Pringle, John L., assignor to H. E. O'Neill, H. E. Walker, and J. A. Chantler, Toronto, Ontario, Canada. Educational construction set. No. 1,163,851; Dec. 14; Gaz. vol. 221; p. 437.
- Pringle, John M., Cassville, Wis. Garden-hoe. No. 1,148,534; Aug. 3; Gaz. vol. 217; p. 18.
- Pringle, Philip, Lipton, Canada. Internal-combustion engine. No. 1,140,394; May 25; Gaz. vol. 214; p. 1048.
- Pringle, William A., Niagara Falls, N. Y., assignor, by mesne assignments, to American Sales Book Company, Limited. Delivery mechanism for printing-presses. No. 1,139,577; May 18; Gaz. vol. 214; p. 725.
- Pringle, William A., Niagara Falls, N. Y., assignor, by mesne assignments, to American Sales Book Company, Limited. Web-handling mechanism. No. 1,149,684; Aug. 10; Gaz. vol. 217; p. 532.
- Pringle, William A., Niagara Falls, N. Y., assignor, by mesne assignments, to American Sales Book Company, Limited. Web-transforming mechanism. No. 1,152,436; Sept. 7; Gaz. vol. 218; p. 19.
- Prinz, Daniel F., assignor to The Reading Saddle & Manufacturing Company, Reading, Pa. Cycle-saddle. No. 1,151,613; Aug. 31; Gaz. vol. 217; p. 1368.
- Prinz, Charles C., Lexington, Ky. Traffic-indicator. No. 1,148,986; Aug. 3; Gaz. vol. 217; p. 177.
- Prinz, Faustina, Milwaukee, Wis. Eccentric ball-bearing reciprocating device. No. 1,162,512; Nov. 30; Gaz. vol. 220; p. 1619.
- Prinz and Rau Manufacturing Company, The. (See Mitchell, John E., assignor.)
- Prinzler, Carl J., assignor to Von Duprin Fire Exit Latch Company, Indianapolis, Ind. Lock. No. 1,158,845; Nov. 2; Gaz. vol. 220; p. 154.
- Priskey, George, Detroit, Mich. Lubricant-atomizer. No. 1,153,642; Sept. 14; Gaz. vol. 218; p. 491.
- Pritchard, Franklin H., Schenectady, N. Y., assignor to General Electric Company. Electrical conductor. No. 1,146,348; July 13; Gaz. vol. 216; p. 500.
- Pritchard, Irvin L., Baltimore, Md. Chalk-holder. No. 1,142,458; June 8; Gaz. vol. 215; p. 521.
- Pritchard, Nathaniel J., Point Richmond, Cal. Micrometer pump-valve gage. No. 1,144,061; June 22; Gaz. vol. 215; p. 1140.
- Pritchard-Stamping Company. (See McDade and Dorsey, assignors.)
- Pritchard, William C., assignor to National Store Specialty Company, Lancaster, Pa. Dash-pot. No. 1,128,041; Feb. 9; Gaz. vol. 211; p. 524.
- Pritchard, William H., and W. A. Taylor, Niles, Ohio. Interlocking seam for stovepipes. No. 1,128,042; Feb. 9; Gaz. vol. 211; p. 524.
- Pritchett, H. L., et al. (See Lyle, Jesse, assignor.)
- Pritham, Henry C., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Waterproof shot-cartridge. No. 1,144,379; June 29; Gaz. vol. 215; p. 1281.
- Pritschau, Siegfried A. (See Dirlam and Pritschau.)
- Pritzl, Lorenz L., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,153,252; Sept. 14; Gaz. vol. 218; p. 351.
- Probert, Edwin R., Covington, Ky. Sheet-metal roofing. No. 1,123,921; Jan. 5; Gaz. vol. 210; p. 247.
- Probert, Edwin R., assignor to The Moeschl-Edwards Corrugating Company, Covington, Ky. Sheet-metal roofing. No. 1,144,725; June 29; Gaz. vol. 215; p. 1399.
- Probert, Edwin R., assignor to The Moeschl-Edwards Corrugating Company, Covington, Ky. Reference device for desks and the like. No. 1,156,812; Oct. 12; Gaz. vol. 219; p. 541.
- Probert, Edwin R., assignor to The Moeschl-Edwards Corrugating Company, Covington, Ky. Metal-window meeting-rail. No. 1,163,365; Dec. 7; Gaz. vol. 221; p. 222.
- Probert, Edwin R., assignor to The Moeschl-Edwards Corrugating Co., Covington, Ky. Sheet-metal roofing. No. 1,163,556; Dec. 7; Gaz. vol. 221; p. 287.
- Probst, Emmet, Paterson, N. J. Shade-roller bracket. No. 1,136,049; Apr. 20; Gaz. vol. 213; p. 778.
- Probst, George W., Lock Haven, Pa. Cake-griddle. No. 1,166,076; Dec. 28; Gaz. vol. 221; p. 1291.
- "Procento" Hungarian Reckoning Machine and Typewriter Company. (See Bernovits, Victor, assignor.)
- Process Engineering Company, The. (See Rogers, Charles S., assignor.)
- Prochaska, Carroll A. (See Gallagher, Richard W., assignor.)
- Prochaska, Karl, Vienna, Austria-Hungary. Pot and cover lifter. No. 1,134,905; Apr. 6; Gaz. vol. 213; p. 293.
- Procter and Gamble Company, The. (See Burchenal, John J., assignor.)
- Procter and Gamble Company, The. (See Carr, Albert B., assignor.)
- Procter and Gamble Company, The. (See Kayser, Edwin C., assignor.)
- Proctor, Alfred W., Brooklyn, N. Y., assignor to The Gillette Safety Razor Company. Razor-blade. No. 1,123,371; Jan. 5; Gaz. vol. 210; p. 60.
- Proctor, Alfred W., assignor to R. Hoe and Co., New York, N. Y. Web-roll renewer. No. 1,147,750; July 27; Gaz. vol. 216; p. 1038.
- Proctor, George S., and J. B. Prendergast, Ottawa, Ontario, Canada. Sealing-wax melter. No. 1,129,900; Mar. 2; Gaz. vol. 212; p. 23.
- Procutner, William L., Chicago, Ill. Reversible tap-holder. No. 1,164,315; Dec. 14; Gaz. vol. 221; p. 598.
- Production Meter Company. (See Johnson, Austin C., assignor.)
- Proeger, Julius, Pittsburgh, assignor of one-half to C. N. Brady, Washington, Pa. Glass-mold lock. No. 1,141,653; June 1; Gaz. vol. 215; p. 202.
- Proeger, Luis W., Pittsburgh, Pa. Delivering molten glass to molds. No. 1,143,317; June 15; Gaz. vol. 215; p. 859.
- Proell, Reinhold, Dresden, Germany. Apparatus for controlling rotary machines. No. 1,130,431; Mar. 2; Gaz. vol. 212; p. 206.
- Progress Machine Company. (See Gaynor, John J., assignor.)
- Progress Machine Company. (See Gaynor and Lieber, assignors.)
- Progress Machine Co. (See Muench, William C., assignor.)
- Prokesch, Samuel J., New York, N. Y. Folding hand-bag. No. 1,148,404; July 27; Gaz. vol. 216; p. 1270.
- Prokofiew, George, Kensal Rise, London, England. Automatic machine for packeting, weighing, and delivering given quantities of granular or powdery material. No. 1,137,284; Apr. 27; Gaz. vol. 213; p. 1258.
- Prokop, Frank, Milwaukee, Wis. Sliding-shackle padlock. No. 1,140,285; May 18; Gaz. vol. 214; p. 974.
- Prokop, Joseph F., Hay Springs, Nebr. Mixing-machine. No. 1,126,859; Feb. 2; Gaz. vol. 211; p. 70.
- "Prometheus" Fabrik Elektrischer Koch- und Herzaparate Gesellschaft mit beschränkter Haftung. (See Bölling, Friedrich, assignor.)

Alphabetical list of patentees—Continued.

- Prommel, Harold W. C., Denver, Colo. Sanitary toothpick-dispenser. No. 1,146,447; July 13; Gaz. vol. 216; p. 537.
- Pronovost, David E., *et al.* (See Pronovost, Joseph, assignor.)
- Pronovost, Joseph, assignor of one-tenth to D. E. Pronovost and two-tenths to N. P. Salvall, Helena, Mont. Excavating-machine. No. 1,161,337; Nov. 23; Gaz. vol. 220; p. 1164.
- Propach, Conrad H. (See Levi, Louis E., assignor.)
- Prose, Jehn H. (See Sears, Prose, and Anderson.)
- Proshok, John P., Beaver Falls, Pa. Elevator safety device. No. 1,161,969; Nov. 30; Gaz. vol. 220; p. 1431.
- Proskauer, Berthold, Berlin, and A. Irrgang, Baumschulenberg, near Berlin, Germany. Apparatus for making dental crowns and molar projections. No. 1,143,432; June 15; Gaz. vol. 215; p. 900.
- Proske, Theodore H., Denver, Colo. Drill-sharpener. No. 1,123,872; Jan. 5; Gaz. vol. 210; p. 60.
- Prosser, Joseph G., Chicago, Ill. Method and apparatus for obtaining work from vapor. No. 1,165,626; Dec. 28; Gaz. vol. 221; p. 1135.
- Prosterman, Max, Chicago, Ill. Traveling-bag. No. 1,126,860; Feb. 2; Gaz. vol. 211; p. 70.
- Pröstler, Norbert, assignor to Gesellschaft für elektrotechnische Industrie mit beschränkter Haftung, Berlin, Germany. Uniting sheets of brass, aluminum, and other metals of high conductivity for heat. No. 1,126,655; Jan. 26; Gaz. vol. 210; p. 1339.
- Pröstler, Norbert, assignor to Gesellschaft für Elektrotechnische Industrie mit beschränkter Haftung, Berlin, Germany. Uniting sheets of brass, aluminum, and other metals or alloys of high conductivity for heat. No. 1,134,007; Mar. 30; Gaz. vol. 212; p. 1627.
- Protection Company. (See Gay, Herman T., assignor.)
- Protective Signal Manufacturing Company, The. (See Neahr, Will C., assignor.)
- Proud, Percy J. E., Dublin, Ireland. Rear-axle drive. No. 1,149,985; Aug. 10; Gaz. vol. 217; p. 640.
- Proulx, Joseph A., Vancouver, British Columbia, Canada. Advertising display device. No. 1,125,393; Jan. 19; Gaz. vol. 210; p. 854.
- Proulx, Simeon. (See Gareau, Ferdinand, assignor.)
- Prout, John T., New York, N. Y. Moving advertising device. No. 1,160,319; Nov. 16; Gaz. vol. 220; p. 756.
- Prouty, George W., Dorchester, Mass. Holder for saleschecks. No. 1,130,629; Mar. 2; Gaz. vol. 212; p. 275.
- Prouty, George W., Dorchester, Mass. Printing-press. No. 1,131,268; Mar. 9; Gaz. vol. 212; p. 529.
- Provandie, Herbert F., Melrose, assignor to American Water Supply Company of New England, Boston, Mass. Machine for forming paper-cup bodies. No. 1,124,517; Jan. 12; Gaz. vol. 210; p. 504.
- Provandie, Herbert F., Melrose, assignor to American Water Supply Company of New England, Boston, Mass. Paper drinking-cup. No. 1,125,171; Jan. 19; Gaz. vol. 210; p. 773.
- Provandie, Herbert F., Melrose, and E. H. Whitney, Rehoboth, assignors to American Water Supply Company of New England, Boston, Mass. Machine for cutting bottom pieces for paper cups. No. 1,124,516; Jan. 12; Gaz. vol. 210; p. 503.
- Provard, James W., Nogales, Ariz. Automatic advertising device for street-cars. No. 1,129,518; Feb. 23; Gaz. vol. 211; p. 1124.
- Providence Blower Company. (See O'Connor, Martin A., assignor.)
- Provost, Charles A., Morrisville, Pa., assignor of one-third to J. L. Power, Trenton, N. J. Railway. No. 1,162,251; Nov. 30; Gaz. vol. 220; p. 1529.
- Provost, Milford E., Hallowell, Mass. Micrometer-gage. No. 1,152,761; Sept. 7; Gaz. vol. 218; p. 139.
- Prows, David A., Castlegate, Utah. Washing-machine. No. 1,149,947; Aug. 10; Gaz. vol. 217; p. 626.
- Prows, David A., Castlegate, Utah. Pencil-holder. No. 1,157,580; Oct. 19; Gaz. vol. 219; p. 842.
- Pruden, Daniel R., Revere, and D. W. Wormwood, Chelsea, Mass. Knockdown barrel. No. 1,142,269; June 8; Gaz. vol. 215; p. 453.
- Pruden, Harry R., New Castle, Pa., assignor to Powdered Coal Engineering and Equipment Company, Chicago, Ill. Siphonic feeder for comminuted material. No. 1,165,444; Dec. 28; Gaz. vol. 221; p. 1072.
- Prudhon, Jean R., Marseille, France. Marine boiler with double circulation and steam-superheater. No. 1,126,078; Jan. 26; Gaz. vol. 210; p. 1130.
- Prussman, Albert, Chicago, Ill., assignor to Western Electric Company, New York, N. Y. Paper condenser. No. 1,127,513; Feb. 9; Gaz. vol. 211; p. 339.
- Prnett, William M., Greensboro, N. C., assignor of two-thirds to J. W. Krueger, Atlanta, Ga. Refrigerating apparatus. No. 1,131,004; Mar. 9; Gaz. vol. 212; p. 438.
- Prugh, Marlon A. (See Ross and Prugh.)
- Pruser, Gustav A., Winters, Tex. Cotton-picking machine. No. 1,134,158; Apr. 6; Gaz. vol. 213; p. 26.
- Prushey, Thomas, Tacoma, Wash. Burglar-alarm for safes. No. 1,124,169; Jan. 5; Gaz. vol. 210; p. 330.
- Prutzman, Edward, Lewisburg, Pa. Device for opening envelopes. No. 1,141,142; June 1; Gaz. vol. 215; p. 18.
- Pryor, Joseph F., Eugene, Oreg. Hat-pin-point protector. No. 1,132,488; Mar. 16; Gaz. vol. 212; p. 1000.
- Pryor, Thomas F., Jr., South Orange, N. J., assignor to B. M. Shanley, Jr., Co. Belt clasp or buckle. No. 1,133,666; Mar. 30; Gaz. vol. 212; p. 1513.
- Psarski Dyeing Machine Company, The. (See Psarski, John T., assignor.)
- Psarski, John T., assignor to The Psarski Dyeing Machine Company, Cleveland, Ohio. Dyeing-machine. No. 1,155,438; Oct. 5; Gaz. vol. 219; p. 40.
- Psik, John, Jackson, Minn. Interchangeable-speed mechanism for sewing-machines. No. 1,133,502; Mar. 30; Gaz. vol. 212; p. 1450.
- Psilander, Charles A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for preventing the creeping of oil upon shafts or axles. No. 1,124,658; Jan. 12; Gaz. vol. 210; p. 556.
- Pszystas, Nicholas, Westfield, Mass. Exerciser. No. 1,133,746; Mar. 30; Gaz. vol. 212; p. 1540.
- Pszystas, Nicholas, Westfield, Mass. Life-preserver. No. 1,145,510; July 6; Gaz. vol. 216; p. 187.
- Ptak, Stanislaw, and A. Sadtik, Kewanee, Ill. Mail-box. No. 1,144,566; June 29; Gaz. vol. 215; p. 1343.
- Ptasenski, Anthony, Force, Pa. Toothed harrow. No. 1,148,045; July 27; Gaz. vol. 216; p. 1142.
- Ptok, Franz, assignor to Allgemeine Publikations-Gesellschaft m. b. h., Munich, Germany. Electric-circuit controller. No. 1,123,373; Jan. 5; Gaz. vol. 210; p. 61.
- Public Service Cup Company. (See Claus, Emil A., assignor.)
- Public Supply Company. (See Rast, Felix Q., assignor.)
- Public Supply Company. (See Rast and Peirce, assignors.)
- Pucillo, Francesco, Genoa, Italy. Treatment of aluminum to render it unalterable. No. 1,130,196; Mar. 2; Gaz. vol. 212; p. 124.
- Puddefoot, Alfred A., assignor to Briscoe Manufacturing Company, Detroit, Mich. Fender for vehicle-wheels. No. 1,126,861; Feb. 2; Gaz. vol. 211; p. 70.
- Puff, Robert H., St. Louis, Mo. Barrel-head fastening. No. 1,148,622; Aug. 3; Gaz. vol. 217; p. 50.
- Pugh, Charlie K., Colorado City, Colo. Multiple-exposure attachment for cameras. No. 1,165,710; Dec. 28; Gaz. vol. 221; p. 1166.
- Pugh, John C., Westbrook, Me. Wrench. No. 1,147,119; July 20; Gaz. vol. 216; p. 790.
- Pugh, John V., Allesley, England. Detachable wheel-hub. No. 1,129,725; Feb. 23; Gaz. vol. 211; p. 1192.
- Pugh, John V., Allesley, England. Detachable wheel-hub. No. 1,129,726; Feb. 23; Gaz. vol. 211; p. 1192.
- Pugh, John V., Allesley, Coventry, England. Detachable wheel. No. 1,145,701; July 6; Gaz. vol. 216; p. 254.
- Pugh, John V., Allesley, and F. Pountney, Coventry, England. Detachable wheel. No. 1,145,702; July 6; Gaz. vol. 216; p. 255.
- Pugh, John V., and F. Pountney, Coventry, England. Wheel. No. 1,148,987; Aug. 3; Gaz. vol. 217; p. 178.
- Pugh, William E., Seattle, Wash. Safety-lamp. No. 1,134,062; Mar. 30; Gaz. vol. 212; p. 1646.
- Pughely, Daniel G., Halleyville, Okla. Lock. No. 1,165,627; Dec. 28; Gaz. vol. 221; p. 1135.
- Pugsley, William E., assignor of one-half to F. Wheat, Grand Rapids, Mich. Combined coat, vest, and trousers hanger. No. 1,159,270; Nov. 2; Gaz. vol. 220; p. 299.
- Puley, John M., Cleveland, Ohio. Paper-box. No. 1,138,788; May 11; Gaz. vol. 214; p. 413.
- Pulford, Jefferson, Detroit, Mich. Closure for condiment-holders. No. 1,130,019; Mar. 2; Gaz. vol. 212; p. 62.
- Pull-More Motor Truck Company. (See Marker, Henry H., assignor.)
- Pullar, James, Hartford, Conn. Horseshoe. No. 1,140,714; May 25; Gaz. vol. 214; p. 1159.
- Pullar, James, assignor to The International Horse Shoe Co., Inc., Hartford, Conn. Horseshoe. No. 1,164,805; Dec. 21; Gaz. vol. 221; p. 831.
- Pullen, Rodney S., Philadelphia, Pa. Ruler. No. 1,147,434; July 20; Gaz. vol. 216; p. 901.
- Pulliam, Oswald S., Pittsburgh, Pa. Underframe center-sill construction for cars and the like. No. 1,159,534; Nov. 9; Gaz. vol. 220; p. 423.
- Pulliam, Oswald S., Pittsburgh, Pa. Bearing. No. 1,161,970; Nov. 30; Gaz. vol. 220; p. 1431.
- Pulliam, Oswald S., Pittsburgh, and J. Allison, Dravosburg, Pa. Roller-bearing. No. 1,147,433; July 20; Gaz. vol. 216; p. 901.
- Pullman Company, The. (See Berg, Lars J., assignor.)
- Pullman Company, The. (See Meyer and Eberhardt, assignors.)
- Pullman Company, The. (See Oberly, Chester C., assignor.)
- Pullman Company, The. (See Parke, Peter, assignor.)
- Pullman Couch Company. (See Dyke, Darrell F., assignor.)
- Pullman Couch Company. (See Fischhoff, William M., assignor.)
- Pullman Couch Company. (See Holst, George A., assignor.)
- Pullman Couch Company. (See Kramer and Brennan, assignors.)
- Pum, Gustav, Gratz, and A. Glaessner, assignors to Philipp Röder-Bruno Raabe, A. G., Vienna, Austria-Hungary. Manufacturing artificial sponge. No. 1,142,619; June 8; Gaz. vol. 215; p. 575.

- Pumphrey, George L., Washington, D. C. Protecting-plate for wooden buckets. No. 1,151,284; Aug. 24; Gaz. vol. 217; p. 1209.
- Pumphrey, Walter H., New York, N. Y., assignor to American Graphophone Company, Bridgeport, Conn. Talking-machine. No. 1,139,224; May 11; Gaz. vol. 214; p. 566.
- Punch, David T., assignor, by mesne assignments, to Chicago Mop & Polish Company, Chicago, Ill. Mop. No. 1,158,846; Nov. 2; Gaz. vol. 220; p. 154.
- Pungs, William A., Detroit, Mich. Spring suspension. No. 1,148,926; Aug. 3; Gaz. vol. 217; p. 156.
- Pupp, Max B., assignor of two-fifths to S. Lehosky, Clarksburg, W. Va. Flying-machine of the aeroplane type. No. 1,128,272; Feb. 9; Gaz. vol. 211; p. 603.
- Puppe, Johann, Breslau, Germany. Rolling-mill. No. 1,154,884; Sept. 28; Gaz. vol. 218; p. 980.
- Purcell, John H., assignor of one-half to F. L. Busey, Knob, Cal. Gun-rest. No. 1,147,890; July 27; Gaz. vol. 216; p. 1087.
- Purcell, Lee R., U. S. Navy. Firearm. No. 1,140,715; May 25; Gaz. vol. 214; p. 1159.
- Purcell, Thomas J. (See Dally, Dora S., assignor.)
- Purcell, William, Hornell, N. Y. Train-stopping apparatus. No. 1,139,136; May 11; Gaz. vol. 214; p. 537.
- Purdie, Alexander, Wyandotte, Mich. Antiskidding device. No. 1,142,909; June 15; Gaz. vol. 215; p. 714.
- Purdy, E. H. (See Salter, William A., assignor.)
- Purdy, George C., and D. W. Edwards, assignors to Greenlee Bros. & Company, Rockford, Ill. Machine for adzing and boring ties. No. 1,141,886; June 1; Gaz. vol. 215; p. 279.
- Purdy, George C., and D. W. Edwards, assignors to Greenlee Bros. & Company, Rockford, Ill. Tie-gaining machine. No. 1,141,887; June 1; Gaz. vol. 215; p. 279.
- Purdy, George C., and J. H. Mansfield, assignors to Greenlee Bros. & Co., Rockford, Ill. Tie-gaining machine. No. 1,159,795; Nov. 9; Gaz. vol. 220; p. 520.
- Purdy, Harvey O., Mount Vernon, Ohio. Floor-jack. No. 1,148,046; July 27; Gaz. vol. 216; p. 1142.
- Purdy, Joseph S. L., Le Roy, N. Y. Apparatus for expelling oil or water from natural-gas wells. No. 1,153,253; Sept. 14; Gaz. vol. 218; p. 351.
- Purdy, Walter S., assignor to The Fulton Pit Car & Manufacturing Company, Canal Fulton, Ohio. Car-wheel construction. No. 1,165,445; Dec. 28; Gaz. vol. 221; p. 1072.
- Pure Coal Briquettes Limited. (See Phillips, Henry J. and A., assignors.)
- Pure Food Process Company, The. (See Schmitt, Edward D., assignor.)
- Puretz, Julius, and B. Cohen, New York, N. Y. Sad-iron. No. 1,150,703; Aug. 17; Gaz. vol. 217; p. 953.
- Purinton, Harlow G., Adamsville, Mass. Milking-pail and cover therefor. No. 1,126,564; Jan. 26; Gaz. vol. 210; p. 1307.
- Puritan Comb Company. (See Hines, William J., assignor.)
- Purvis, George, Detroit, Mich. Blow-off for boilers. No. 1,163,687; Dec. 14; Gaz. vol. 221; p. 377.
- Pursselley, James, assignor of one-fourth to R. L. Yarbro and one-fourth to W. C. Jones, Drumright, Okla. Nut-lock. No. 1,139,225; May 11; Gaz. vol. 214; p. 566.
- Pusateri, Michael, McDonald, Pa. Rail-joint. No. 1,156,926; Oct. 19; Gaz. vol. 219; p. 613.
- Puscarin, Valeriu. (See Tacit and Puscarin.)
- Pusielli, Erich, New York, N. Y. Coin-container. No. 1,163,173; Dec. 7; Gaz. vol. 221; p. 154.
- Puskanen, John J., Chisholm, Minn. Life-preserver. No. 1,159,086; Nov. 2; Gaz. vol. 220; p. 233.
- Puthoff, Albert H., T. O. Nunnally, Ashland, Ky., and J. N. Ramsey, Cincinnati, Ohio. Grease-cup. No. 1,161,338; Nov. 23; Gaz. vol. 220; p. 1164.
- Putnam, Deyo W., Buffalo, N. Y. Key-holder. No. 1,139,370; May 11; Gaz. vol. 214; p. 616.
- Putnam, Frances F., Rye, N. Y. Perambulator. No. 1,130,763; Mar. 9; Gaz. vol. 212; p. 356.
- Putnam, Fred A., Melrose, and C. F. Robbins, Abington, assignors to Markhem Machine Company, Boston, Mass. Marking-machine. No. 1,131,865; Mar. 16; Gaz. vol. 212; p. 774.
- Putnam, Fred A., Melrose, and C. F. Robbins, Abington, assignors to Markhem Machine Company, Boston, Mass. Type-carrier and marking-machine. No. 1,131,866; Mar. 16; Gaz. vol. 212; p. 774.
- Putnam, George E., New York, N. Y. Float-operated valve. No. 1,142,910; June 15; Gaz. vol. 215; p. 715.
- Putnam, George H., South Boston, Mass. Car-coupling. No. 1,155,683; Oct. 5; Gaz. vol. 219; p. 125.
- Putnam, John P., Boston, Mass. Pipe-joint. No. 1,151,614; Aug. 31; Gaz. vol. 217; p. 1368.
- Putnam, Latham, Corning, N. Y. Combination copy-holder, book-holder, &c. No. 1,161,339; Nov. 23; Gaz. vol. 220; p. 1165.
- Putnam, W. S. (See Wells, Gustavus V., assignor.)
- Putnam, Waldo D., New York, N. Y. Door-check. No. 1,141,485; June 1; Gaz. vol. 215; p. 143.
- Putnam, William H., New York, N. Y. Traction and antiskidding device. No. 1,150,148; Aug. 17; Gaz. vol. 217; p. 760.
- Pylant, William V., Petersburg, Tenn. Dirigible headlight. No. 1,151,391; Aug. 24; Gaz. vol. 217; p. 1244.
- Pyle, Edward, Butte, Mont. Mining-tool car. No. 1,126,862; Feb. 2; Gaz. vol. 211; p. 70.
- Pyle, George C., Beatrice, Nebr. Pipe-hanger. No. 1,131,867; Mar. 16; Gaz. vol. 212; p. 775.
- Pyle, George W., Geneva, Ind. Folding shipping-crate. No. 1,129,011; Feb. 16; Gaz. vol. 211; p. 911.
- Pyle-National Electric Headlight Company. (See Dake, Charles W., assignor.)
- Pyle National Electric Headlight Company. (See Dake, Wilford W., assignor.)
- Pyle-National Electric Headlight Company. (See Kilker and Dake, assignors.)
- Pyle, William B. Robinson, Ill. Water-circulating system for explosive-engines. No. 1,142,055; June 8; Gaz. vol. 215; p. 377.
- Pyle, William T., Normal, assignor to Safety Folding Ladder Company, Pekin, Ill. Step-ladder. No. 1,158,716; Nov. 2; Gaz. vol. 220; p. 106.
- Pyles, James B., Moore, Mont. Draft appliance. No. 1,161,340; Nov. 23; Gaz. vol. 220; p. 1165.
- Pym, Charles F., assignor to Krentler-Lym Machine Company, Detroit, Mich. Making boots or shoes. No. 1,126,271; Jan. 26; Gaz. vol. 210; p. 1199.
- Pyne, Francis R., Elizabeth, and H. M. Green, assignors to United States Metals Refining Company, Chrome, N. J. Electrolytic refining or extracting. No. 1,148,798; Aug. 3; Gaz. vol. 217; p. 113.
- Pyramid Manufacturing Company. (See Lloyd, William H., assignor.)
- Pyrene Manufacturing Company. (See Aylsworth, Jonas W., assignor.)
- Pyrene Manufacturing Company. (See Ferguson, George E., assignor.)
- Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
- Pyro-Pin Manufacturing Company. (See Mason and Beattie, assignors.)
- Q & C Company. (See Butz and McCarthy, assignors.)
- Quackenbush, William H., Jamesburg, N. J. Spark-plug. No. 1,129,603; Feb. 23; Gaz. vol. 211; p. 1155.
- Quade, Fritz, Buckow, Germany. Apparatus for playing hopping games. No. 1,155,273; Sept. 28; Gaz. vol. 218; p. 1112.
- Quain, John R., London, England. Electric-resistance element. No. 1,146,518; July 13; Gaz. vol. 216; p. 562.
- Quain, John R., London, England. Production of ozone. No. 1,147,265; July 20; Gaz. vol. 216; p. 841.
- Quant, Marvin E., Buffalo, N. Y. Storage-casing for refuse-receptacles. No. 1,162,878; Dec. 7; Gaz. vol. 221; p. 50.
- Quarles, Charles H., Akron, Ohio. Puzzle. No. 1,133,061; Mar. 23; Gaz. vol. 212; p. 1260.
- Quartermaine, Thomas Q., Peterborough, Ontario, Canada. Emergency bow-rudder. No. 1,128,508; Feb. 16; Gaz. vol. 211; p. 735.
- Quass, Ralph L., assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,156,626; Oct. 12; Gaz. vol. 219; p. 479.
- Quass, Ralph L., assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,163,852; Dec. 14; Gaz. vol. 221; p. 438.
- Quast, Bruno, Cologne-Deutz, Germany. Continuously-operating rolling-mill. No. 1,123,797; Jan. 5; Gaz. vol. 210; p. 205.
- Quebec Savings and Trust Company. (See Jagger, Peter B., assignor.)
- Queen City Knitting Mills. (See Tallerday, George S., assignor.)
- Queen Manufacturing Company. (See Burnell and Laverder, assignors.)
- Quegwer, Hermann, Bunzlau, Germany. Reversing mechanism for harvesting-machines. No. 1,129,727; Feb. 23; Gaz. vol. 211; p. 1193.
- Queitsch, William, Tacoma, Wash. Tool for removing driving-box cellars. No. 1,155,274; Sept. 28; Gaz. vol. 218; p. 1113.
- Queneau, Augustin L. J., Philadelphia, Pa. Roasting of compounds or ores containing zinc. No. 1,132,684; Mar. 23; Gaz. vol. 212; p. 1120.
- Queneau, Augustin L. J., Philadelphia, Pa., assignor, by mesne assignments, to S. P. Witherill, Edgewater Park, N. J. Casting metals of high melting-point. No. 1,126,079; Jan. 26; Gaz. vol. 210; p. 1131.
- Quennard, George H., Allendale, N. J. Tire. No. 1,143,781; June 22; Gaz. vol. 215; p. 1042.
- Quertier, Hilary, Wellington, New Zealand. Recorder for weighing-machines. No. 1,125,710; Jan. 19; Gaz. vol. 210; p. 966.
- Quertinmont, Jules J., Point Marion, Pa. Glass-furnace. No. 1,130,536; Mar. 2; Gaz. vol. 212; p. 245.
- Quertinmont, Jules J., Point Marion, Pa. Floater or glass-drawing ring. No. 1,130,537; Mar. 2; Gaz. vol. 212; p. 245.
- Query, Joseph O., Somerville, Mass. Apparatus for controlling railway-trains. No. 1,157,723; Oct. 26; Gaz. vol. 219; p. 957.
- Quesenberry, Henry C., Delton, Va. Rail-gripping attachment for jacks. No. 1,148,856; Aug. 3; Gaz. vol. 217; p. 133.
- Quesnell, Cornelius, Moscow, Idaho. Thresher-tooth. No. 1,148,335; July 27; Gaz. vol. 216; p. 1247.
- Quick, Alfred A. (See Bronner and Quick.)

Alphabetical list of patentees—Continued.

- Quick, Benjamin H., Des Moines, Iowa, assignor to The Hart & Cooley Company, New Britain, Conn. Setting-frame for side-wall registers. No. 1,162,398; Nov. 30; Gaz. vol. 220; p. 1579.
- Quick, Elmer, Trinidad, Colo. Cow's-tail holder. No. 1,140,186; May 18; Gaz. vol. 214; p. 942.
- Quick, Howard L., New York, N. Y. Jigger for dyeing fabrics and similar purposes. No. 1,131,269; Mar. 9; Gaz. vol. 212; p. 530.
- Quick, Howard L., New York, N. Y. Treating fabrics. No. 1,131,270; Mar. 9; Gaz. vol. 212; p. 530.
- Quick, Howard L., New York, N. Y. Jigger for dyeing fabrics and similar purposes. No. 1,165,803; Dec. 28; Gaz. vol. 221; p. 1197.
- Quidas, Frederick W., Brooklyn, N. Y. Clip for developing-trays. No. 1,125,092; Jan. 19; Gaz. vol. 210; p. 744.
- Quiggle, George E., Fruitdale, Ala. Extension car-steps. No. 1,143,433; June 15; Gaz. vol. 215; p. 901.
- Quigley, Edward J., Newark, N. J. Combination-garment. No. 1,128,360; Feb. 16; Gaz. vol. 211; p. 684.
- Quigley, Edward J., New York, N. Y. Combination-garment. No. 1,139,800; May 18; Gaz. vol. 214; p. 805.
- Quigley, Edward J., New York, N. Y. Combination-garment. No. 1,141,486; June 1; Gaz. vol. 215; p. 143.
- Quigley, Edward J., Newark, N. J. Combination-garment. No. 1,143,228; June 15; Gaz. vol. 215; p. 829.
- Quigley Furnace and Foundry Co. (See Quigley, Wirt S., assignor.)
- Quigley Furnace and Foundry Company. (See Heyl, Albert D., assignor.)
- Quigley Furnace & Foundry Company. (See Longenecker, Charles, assignor.)
- Quigley, George E., Youngstown, Ohio. Steam-engine. No. 1,163,452; Dec. 7; Gaz. vol. 221; p. 251.
- Quigley, Hugh T. (See Fullard and Quigley.)
- Quigley, Joe F., Oklaboma, Okla. Apparatus for purifying and aerating water. No. 1,161,971; Nov. 30; Gaz. vol. 220; p. 1431.
- Quigley, John T., assignor to The Costmeter Company, San Francisco, Cal. Time-cost meter. No. 1,139,718; May 18; Gaz. vol. 214; p. 777.
- Quigley, John T., assignor to The Costmeter Company, Boston, Mass. Feeding device. No. 1,156,037; Oct. 5; Gaz. vol. 219; p. 247.
- Quigley, Michael C., and L. Trees, Greenfield, Ind. Vending-machine. No. 1,131,955; Mar. 16; Gaz. vol. 212; p. 805.
- Quigley, William E., *et al.* (See Mason, Hosea A., assignor.)
- Quigley, Wirt S., New York, N. Y. Closure for furnaces. No. 1,126,080; Jan. 26; Gaz. vol. 210; p. 1131.
- Quigley, Wirt S., New York, N. Y. Apparatus for feeding finely-divided material. No. 1,128,043; Feb. 9; Gaz. vol. 211; p. 524.
- Quigley, Wirt S., Springfield, Mass., assignor to Quigley Furnace and Foundry Co. Manhole-cover fastening. No. 1,165,804; Dec. 28; Gaz. vol. 221; p. 1198.
- Quillen, B. B. (See Rossetol, Joseph M., assignor.)
- Quimby, Clarence E., Geneva, assignor, by mesne assignments, to Kryptok Company, New York, N. Y. Ware-manufacturing. No. 1,152,969; Sept. 7; Gaz. vol. 218; p. 217.
- Quincy, Henry J., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Locking means for folding cots or couch-beds. No. 1,157,254; Oct. 19; Gaz. vol. 219; p. 731.
- Quinlan, Charles H., Amsterdam, N. Y. Electric water-heater. No. 1,136,365; Apr. 20; Gaz. vol. 213; p. 891.
- Quinlan, Charles H., Amsterdam, N. Y. Mailing-tube. No. 1,146,206; July 13; Gaz. vol. 216; p. 451.
- Quinlan, Peter J., Marietta, Ohio. Gas-burner. No. 1,164,210; Dec. 14; Gaz. vol. 221; p. 560.
- Quinn, John L., Los Angeles, assignor to Standard Oil Company of California, San Francisco, Cal. Thermo-static heater. No. 1,157,255; Oct. 19; Gaz. vol. 219; p. 731.
- Quinn, John L., Los Angeles, assignor of one-half to H. T. Harper, San Francisco, Cal. Valve for internal-combustion engines. No. 1,162,189; Nov. 30; Gaz. vol. 220; p. 1508.
- Quinn, Loraine J., assignor, by mesne assignments, to General Knit Fabric Company, Utica, N. Y. Knitted fabric. No. 1,123,924; Jan. 5; Gaz. vol. 210; p. 247.
- Quinn, Marshall A. (See Stewart and Quinn.)
- Quinn, Patrick H., Somerville, Mass. Bottle-cap. No. 1,128,509; Feb. 16; Gaz. vol. 211; p. 735.
- Quinn, Wilbur W., assignor to National Chemical Company, Syracuse, N. Y. Collar-ironing machine. No. 1,138,686; May 11; Gaz. vol. 214; p. 376.
- Quinn, William J., Columbus, Ohio, assignor to National Chemical Company, Syracuse, N. Y. Collar-ironing machine. No. 1,147,435; July 20; Gaz. vol. 216; p. 902.
- Quinney, Elwyn H. (See Coolbaugh and Quinney.)
- Quintal, Domina, assignor of one-half to A. Robert, Montreal, Quebec, Canada. Seal-lock for fare-boxes. No. 1,161,156; Nov. 23; Gaz. vol. 220; p. 1098.
- Quirk, Edward P., Syracuse, N. Y. Support for bleed-rods. No. 1,152,547; Sept. 7; Gaz. vol. 218; p. 62.
- Quirk, John A., Jr., Jersey City, N. J. Lock. No. 1,145,265; July 6; Gaz. vol. 216; p. 101.
- Quisenberry, Elwood W. (See Shelbourne, Quisenberry, and Dickerson.)
- Quist, Frank J., Worcester, Mass. Dust-collector. No. 1,128,510; Feb. 16; Gaz. vol. 211; p. 735.
- Quist, Fred, Sacramento, Cal. Railway-tie. No. 1,127,277; Feb. 2; Gaz. vol. 211; p. 215.
- Quist, Fred, Sacramento, Cal. Mail-crane. No. 1,128,511; Feb. 16; Gaz. vol. 211; p. 735.
- Qvanten, Jost von. (See Savonius, Sigard, assignor.)
- Qvarnstrom, Ernest J., assignor to Carter, Qvarnstrom & Remington, Attleboro, Mass. Adjustable neck-chain. No. 1,124,518; Jan. 12; Gaz. vol. 210; p. 504.
- Qviller, Theodor, Lilleströmmen, near Christiania, Norway. Pulsating screen for pulp and the like. No. 1,124,802; Jan. 12; Gaz. vol. 210; p. 607.
- R. Hoe and Co. (See Clark, George M., Jr., assignor.)
- R. Hoe and Co. (See Cooper, Ellis W., assignor.)
- R. Hoe and Co. (See Funk, Nelson E., assignor.)
- R. Hoe and Co. (See Halliwell, John J., assignor.)
- R. Hoe & Co. (See Hohner, William, assignor.)
- R. Hoe and Co. (See Niles, Irving F., assignor.)
- R. Hoe and Co. (See Proctor, Alfred W., assignor.)
- R. Hoe and Co. (See Redd, Benoist S., assignor.)
- R. Hoe and Co. (See Roosen, Oscar, assignor.)
- R. Hoe and Co. (See Schmidt, Louis A., assignor.)
- R. Hoe and Co. (See Sheldon, Edward P., assignor.)
- R. Hoe and Co. (See Spalckhaver, William, assignor.)
- R. Hoe and Co. (See Story, Ward B., assignor.)
- R. Neumann Hardware Co., The. (See Hammesfahr, Julius, assignor.)
- R. Neumann Hardware Co., The. (See Lange, John, assignor.)
- R. Neumann Hardware Co., The. (See Tueckmantel, Hugo, assignor.)
- R. Wallace & Sons Mfg. Co. (See Wilkes, Samuel G., assignor.)
- R. Wallace & Sons Mfg. Co. (See Williams, Charles F., assignor.)
- R. B. Bailey Company. (See Peirce, Paul, assignor.)
- R. E. Dietz Company. (See McArthur, Warren, Jr., assignor.)
- R. & G. Corset Co. (See Somers and Dimond, assignors.)
- R and G Company. (See Anderson, Edward L., assignor.)
- R. H. Herron Company. (See Kline, Richard E., assignor.)
- R. H. Long Machinery Company, The. (See Doldge, John J., assignor.)
- R. & H. Manufacturing Company, The. (See Hinckley, Henry D., assignor.)
- R. & H. Manufacturing Company, The. (See Rowntree, Frank L., assignor.)
- R. H. Sellers Company. (See Hoenack, Otto and H., assignors.)
- R. J. Dowd Knife Works. (See North, Ray A., assignor.)
- R. J. Reynolds Tobacco Company. (See Richter, Hans F., assignor.)
- R. K. Le Blond Machine Tool Company, The. (See Le Blond and Groene, assignors.)
- R. M. Ivid Company. (See Ivid, Rasmus M., assignor.)
- R. M. Owen and Company. (See Miller, Robert, assignor.)
- R. Mfg. Co. (See Rauscher and Rexroth, assignors.)
- R. T. P. Patent Wheels Proprietary Limited. (See Park, Richard T., assignor.)
- R. U. V. Company, The. (See Helbronner and Recklinghausen, assignors.)
- R. U. V. Company, The. (See Henri, Helbronner, and Recklinghausen, assignors.)
- R. U. V. Company, The. (See Recklinghausen, Max von, assignor.)
- R. W. Funk, Inc. (See Funk, Richard W., assignor.)
- R. W. Pridham Company. (See Forsman, Stanton W., assignor.)
- Raab, Louis. (See Miller and Raab.)
- Raade, Oscar, Pelican Rapids, Minn. Box. No. 1,123,591; Jan. 5; Gaz. vol. 210; p. 134.
- Rabasa, Joseph, New York, N. Y. Broom-protector. No. 1,134,906; Apr. 6; Gaz. vol. 213; p. 293.
- Rabb, Asa I., Kansas City, Kans. Swing. No. 1,155,439; Oct. 5; Gaz. vol. 219; p. 40.
- Rabba, Heinrich, Borbeck, near Essen-on-the-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Axletree-anchoring device for mobile gun-mounts. No. 1,162,101; Nov. 30; Gaz. vol. 220; p. 1477.
- Rabba, Heinrich, Borbeck, near Essen-on-the-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Training-gear for mobile artillery. No. 1,163,036; Dec. 7; Gaz. vol. 221; p. 105.
- Rabbit, Charles W., *et al.* (See Hunt, Warren M., assignor.)
- Rabbitt, James A., Yokohama, Japan. Tire. No. 1,138,246; May 4; Gaz. vol. 214; p. 183.
- Rabenold, Edwin S., *et al.* (See Savitz, Oscar L., assignor.)
- Raber, Joseph, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Type-writing machine. No. 1,129,012; Feb. 16; Gaz. vol. 211; p. 912.
- Raber, Joseph, Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,158,717; Nov. 2; Gaz. vol. 220; p. 107.
- Rabey, Edward K., Deanes, Va. Spring-tire. No. 1,156,311; Oct. 12; Gaz. vol. 219; p. 365.

- Rabinowitz, Isidor, New York, N. Y. Traveling requisite. No. 1,125,896; Jan. 19; Gaz. vol. 210; p. 855.
- Rabkin, Frank, Columbus, Ohio. Grave-vault. No. 1,151,217; Aug. 24; Gaz. vol. 217; p. 1188.
- Rach, Carl, Stapleton, N. Y. Making beer. No. 1,163,453; Dec. 7; Gaz. vol. 221; p. 252.
- Rach, Carl, Stapleton, N. Y. Making beer. No. 1,163,454; Dec. 7; Gaz. vol. 221; p. 252.
- Rachals, Walter, Youngstown, Ohio. Cover mechanism for pit-furnaces. No. 1,127,278; Feb. 2; Gaz. vol. 211; p. 216.
- Rachals, Walter, Youngstown, Ohio. Automatic coupling device. No. 1,155,006; Sept. 28; Gaz. vol. 218; p. 1022.
- Racine Aluminum Shoe Company. (See Trolle, Sofus, assignor.)
- Racine Sattley Company. (See Weaver, Ira A., assignor.)
- Rackle, Frederick H., assignor to The Smith-Worthington Company, Hartford, Conn. Jockey-plate. No. 1,136,267; Apr. 20; Gaz. vol. 213; p. 856.
- Rackstraw, Albert V., Bedford, Ohio, assignor, by mesne assignments, to The Mechanical Development Company. Cow-milking machine. No. 1,144,380; June 29; Gaz. vol. 215; p. 1281.
- Raczynski, Peter P., Chicago, Ill. Box-covering machine. No. 1,152,970; Sept. 7; Gaz. vol. 218; p. 217.
- Radatz, Charles F., Kenosha, Wis. Clutch for traction-mowers. No. 1,148,623; Aug. 3; Gaz. vol. 217; p. 51.
- Radcliffe, Benjamin D., Chicago, Ill., assignor to American Lock Nut Company. Lock-nut. No. 1,143,229; June 15; Gaz. vol. 215; p. 829.
- Radcliffe, Thomas H., Brooklyn, N. Y. Ball-cock. No. 1,142,620; June 8; Gaz. vol. 215; p. 575.
- Raddatz, Richard. (See Matchette and Raddatz.)
- Radelli, Louis, Beaver Falls, Pa. Tool-holder. No. 1,134,637; Apr. 6; Gaz. vol. 213; p. 202.
- Rader, Arthur J., Chesterton, Ind. Cement-post wire-holder. No. 1,131,416; Mar. 9; Gaz. vol. 212; p. 581.
- Rader, August C., Upper Montclair, N. J. Car-seat. No. 1,142,203; June 8; Gaz. vol. 215; p. 429.
- Rader, Harvey S., Palmerton, Pa. Fifth-wheel. No. 1,130,538; Mar. 2; Gaz. vol. 212; p. 246.
- Radford, George S., Bridgeport, Conn. Tool-holder. No. 1,154,804; Sept. 28; Gaz. vol. 218; p. 954.
- Radlek, Mary E., White Plains, N. Y. Doll's head. No. 1,138,412; May 4; Gaz. vol. 214; p. 244.
- Radliger, Charles, assignor to Société Anonyme Des Etablissements Delaunay-Belleville, St.-Denis, France. Fuel-atomizer for self-propelled torpedoes. No. 1,124,948; Jan. 12; Gaz. vol. 210; p. 658.
- Radliger, Charles, assignor to The Societe Anonyme Des Etablissements Delaunay-Belleville, St.-Denis, France. Connecting-box for boiler-tubes. No. 1,126,565; Jan. 26; Gaz. vol. 210; p. 1307.
- Radliger, Charles, assignor to The Societe Anonyme des Etablissements Delaunay-Belleville, St.-Denis, France. Excess-lubricant-collecting means for engine-cylinders. No. 1,143,914; June 22; Gaz. vol. 215; p. 1087.
- Radliger, Charles, assignor to The Societe Anonyme Des Etablissements Delaunay-Belleville, St.-Denis, Seine, France. Device to prevent the admission of water into the interior of the hollow shaft of a torpedo's propeller. No. 1,154,206; Sept. 21; Gaz. vol. 218; p. 720.
- Radliger, Charles, assignor to Société Anonyme des Etablissements Delaunay-Belleville, St.-Denis, France. Variable-speed universal hydraulic transmission apparatus. No. 1,161,157; Nov. 23; Gaz. vol. 220; p. 1098.
- Radliger, Charles, assignor to The Societe Anonyme Des Etablissements Delaunay-Belleville, St.-Denis, France. Air-supplying means for liquid-fuel burners. No. 1,163,108; Dec. 7; Gaz. vol. 221; p. 130.
- Radio Telephone Company, The. (See Selbt, Georg, assignor.)
- Radio Telephone & Telegraph Company. (See De Forest, Lee, assignor.)
- Radio-Wagenbau-Gesellschaft mit beschränkter Haftung. (See Eberhard, Jacob, assignor.)
- Radium Therapy Corporation. (See Bredt, Otto P. C., assignor.)
- Radke, Emil, Blue Earth, Minn. Resilient tire. No. 1,132,031; Mar. 16; Gaz. vol. 212; p. 834.
- Radlein, Albert L. and G. Selander, Chicago, Ill. Rotary polishing-brush. No. 1,141,143; June 1; Gaz. vol. 215; p. 18.
- Radley, Guy R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,144,431; June 29; Gaz. vol. 215; p. 1299.
- Radley, Guy R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulator. No. 1,154,725; Sept. 28; Gaz. vol. 218; p. 927.
- Radtke, Albert A. (See Straub and Radtke.)
- Radtke, Albert A., Chicago, Ill., assignor to Electric Time Recorder Company. Electric motor. No. 1,131,614; Mar. 9; Gaz. vol. 212; p. 648.
- Radtke, Albert A., assignor to Electric Time Recorder Company, Chicago, Ill. Time-stamp. No. 1,161,341; Nov. 23; Gaz. vol. 220; p. 1165.
- Radu, John. (See Toth, John B., assignor.)
- Raduchel, William, Bloomfield, Nehr. Draft-equalizer. No. 1,144,915; June 29; Gaz. vol. 215; p. 1463.
- Radványi, Charles, and F. Kárász, Bridgeport, Conn. Combined ironing-table and step-ladder. No. 1,128,720; Feb. 16; Gaz. vol. 211; p. 807.
- Radziszewski, Dominik. (See Wojtkowski and Radziszewski.)
- Rae, Frank B., Cleveland, Ohio. Transmission mechanism. No. 1,153,338; Sept. 14; Gaz. vol. 218; p. 382.
- Rae, John C. (See Hobbs and Rae.)
- Raeburn, William E., Toronto, Ontario, Canada. Nut-lock. No. 1,128,186; Feb. 9; Gaz. vol. 211; p. 574.
- Raeger, George C., Waterloo, N. Y. Expansion and fastening device. No. 1,146,651; July 13; Gaz. vol. 216; p. 607.
- Raettig, Alfred W., Sturgis, Mich. Metallic resilient tire. No. 1,143,995; June 22; Gaz. vol. 215; p. 1117.
- Raffel, Tobias E., New York, N. Y., assignor to Paper Working Machines Company. Machine for manufacturing double-faced corrugated board. No. 1,146,771; July 13; Gaz. vol. 216; p. 648.
- Rafferty, John W., San Francisco, Cal. Steering-gear for hook and ladder trucks. No. 1,126,863; Feb. 2; Gaz. vol. 211; p. 71.
- Raflovich, Harry, New York, N. Y. Means for splicing the inner tubes of pneumatic tires. No. 1,158,284; Oct. 26; Gaz. vol. 219; p. 1153.
- Rafn, Robert, Porsgrund, Norway, assignor to General Electric Company, Schenectady, N. Y. Producing tungsten powder. No. 1,130,197; Mar. 2; Gaz. vol. 212; p. 124.
- Ragan, Ralph, Atlanta, Ga. Explosive-engine. No. 1,139,578; May 18; Gaz. vol. 214; p. 726.
- Rager, Arthur R., Youngstown, Ohio. Tympan ball and gage. No. 1,162,102; Nov. 30; Gaz. vol. 220; p. 1478.
- Ragona, John. (See Ragona, Vincent and J.)
- Ragona, Salvador, New York, N. Y. Cigarette-machine. No. 1,134,638; Apr. 6; Gaz. vol. 213; p. 203.
- Ragona, Vincent and J., New York, N. Y. Cigarette-cork-tipping machine. No. 1,131,790; Mar. 16; Gaz. vol. 212; p. 747.
- Ragona, Vincent and J., New York, N. Y. Cigarette-cork-tipping machine. No. 1,131,791; Mar. 16; Gaz. vol. 212; p. 747.
- Ragonnet, Eugene L., Langhorne, Pa. Hydropneumatic locomotive reversing-gear. No. 1,147,436; July 20; Gaz. vol. 216; p. 902.
- Ragsdale, Alton H., Atlanta, Ga. Internal-combustion engine. No. 1,162,252; Nov. 30; Gaz. vol. 220; p. 1529.
- Ragsdale, John W., Village Springs, Ala. Reversible disk plow. No. 1,150,534; Aug. 17; Gaz. vol. 217; p. 894.
- Ragsdale, Thomas J. (See Hendrickson, Thomas M., assignor.)
- Rahn, Charles E., Morganfield, Ky. Automobile safety cranking device. No. 1,162,648; Nov. 30; Gaz. vol. 220; p. 1661.
- Rahn, John C., Leominster, Mass. Apparatus for lifting and emptying receptacles. No. 1,165,900; Dec. 28; Gaz. vol. 221; p. 1230.
- Rahn, Robert C., Wyomissing borough, assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 1,153,826; Sept. 14; Gaz. vol. 218; p. 556.
- Rahn, Robert C., Wyomissing borough, assignor to Textile Machine Works, Wyomissing, Pa. Mold-feeding attachment for braiding-machines. No. 1,161,075; Nov. 23; Gaz. vol. 220; p. 1069.
- Rahn, Friedrich W., Chicago, Ill. Collapsible bed-bolster. No. 1,139,719; May 18; Gaz. vol. 214; p. 777.
- Rahne, Leonard, et al. (See Yull, James, assignor.)
- Raiche, Andrew, assignor to Atlas Tack Company, Fairhaven, Mass. Gang-hook-setting machine. No. 1,146,952; July 20; Gaz. vol. 216; p. 732.
- Rail Joint Company, The. (See Bradley, William J., assignor.)
- Rail Joint Company, The. (See Braine, Bancroft G., assignor.)
- Rail Joint Company, The. (See Braine, Lawrence F. and R. G., assignors.)
- Rail Joint Company, The. (See Braine and Delfox, assignors.)
- Rail Joint Company, The. (See Schermerhorn, Edward F., assignor.)
- Rail Joint Company, The. (See Smith and Thomson, assignors.)
- Rail Joint Company, The. (See Thomson, William P., assignor.)
- Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
- Rail Joint Company, The. (See Wolhaupter and Schermerhorn, assignors.)
- Railroad Supply Co., The. (See Fitz Gerald, John M., assignor.)
- Railway Devices Company. (See Campbell, Sterling H., assignor.)
- Railway Electric Manufacturing Co. (See Rugb, Harry O., assignor.)
- Railway Improvement Company. (See Hall, Walter A. and C. W., assignors.)
- Railway Products Corporation. (See Forsyth, William D., assignor.)
- Railway Roller Bearing Company. (See Lipe and Weed, assignors.)
- Railway Specialties Company. (See Bell, John A., assignor.)
- Railway Specialties Company. (See Bell, Twitchell, and Palmer, assignors.)

Alphabetical list of patentees—Continued.

- "Railway Supplies Limited." (See Rundgren, John, assignor.)
- Railway Utility Company. (See Hynes, Lee P., assignor.)
- Raimondi, Antonio, Milan, Italy. Packing. No. 1,138,413; May 4; Gaz. vol. 214; p. 244.
- Rainey, Boyd E., St. Louis, Mo. Double-jacket heating-furnace. No. 1,165,122; Dec. 21; Gaz. vol. 221; p. 922.
- Rains, Calvin L., Joplin, Mo. Combined rivet dolly and holder. No. 1,162,649; Nov. 30; Gaz. vol. 220; p. 1661.
- Rains, Eleazer I., Indianapolis, Ind. Garment. No. 1,146,735; July 13; Gaz. vol. 216; p. 635.
- Rainford, Thomas F., Cleveland, Ohio. Valve-operating mechanism. No. 1,137,532; Apr. 27; Gaz. vol. 213; p. 1345.
- Rairden, James S., La Grange, Cal. Claw-hammer. No. 1,132,879; Mar. 23; Gaz. vol. 212; p. 1192.
- Rait, George B., Minneapolis, Minn. Mechanical stoker. No. 1,149,685; Aug. 10; Gaz. vol. 217; p. 533.
- Rait, George B., Minneapolis, Minn., assignor to Locomotive Superheater Company, New York, N. Y. Locomotive-superheater. No. 1,147,815; July 27; Gaz. vol. 216; p. 1060.
- Rajki, Steve, *et al.* (See Bradač, Ivan, assignor.)
- Rakestraw, Harrison L., Toledo, Ohio. Carbureter. No. 1,140,064; May 18; Gaz. vol. 214; p. 899.
- Rakestraw, Lawrence M., assignor to The Toledo Auto Tool Company, Toledo, Ohio. Tire-tool. No. 1,135,392; Apr. 13; Gaz. vol. 213; p. 507.
- Rakestraw, Thomas G. (See Wilcox and Rakestraw.)
- Rakow, Carl F., Wheatland, N. D. Grain-car door. No. 1,149,080; Aug. 3; Gaz. vol. 217; p. 210.
- Rakow, Carl F., Wheatland, N. D. Car-door lock. No. 1,151,392; Aug. 24; Gaz. vol. 217; p. 1244.
- Rakowski, Wladislaus, Logan, W. Va. Fuel-brick. No. 1,140,395; May 25; Gaz. vol. 214; p. 1049.
- Rakowsky, Louis, assignor to one-half to A. Josselson, Pittsburgh, Pa. Folding cradle. No. 1,138,247; May 4; Gaz. vol. 214; p. 183.
- Raldeano, August F., Poughkeepsie, N. Y. Fortune-telling device. No. 1,157,581; Oct. 19; Gaz. vol. 219; p. 842.
- Raleigh, Frederick E., Strong City, Kans. Mixer and spreader for concrete and other plastic materials. No. 1,142,841; June 15; Gaz. vol. 215; p. 690.
- Raleigh, James F., Chicago, Ill. Engine-starter. No. 1,131,417; Mar. 9; Gaz. vol. 212; p. 581.
- Rail, Myron W., Gardner, Mont. Snow-shoe. No. 1,156,174; Oct. 12; Gaz. vol. 219; p. 321.
- Rail, Theodor, Chicago, Ill. Vertical-lift bridge. No. 1,140,316; May 18; Gaz. vol. 214; p. 985.
- Ralph, Charles S., Sacramento, Cal. Removable can for ice-making machines. No. 1,129,519; Feb. 23; Gaz. vol. 211; p. 1124.
- Ralph, George H., Oak Park, assignor to M. A. Donohue & Co., Chicago, Ill. Wrapper. No. 1,132,212; Mar. 16; Gaz. vol. 212; p. 899.
- Ralph, Harry H., Philadelphia, Pa. Purifier for steam-boilers. No. 1,160,651; Nov. 16; Gaz. vol. 220; p. 876.
- Ralph, Joseph E., Newark, N. J. Furniture-bottom. No. 1,123,592; Jan. 5; Gaz. vol. 210; p. 134.
- Ralph, Joseph E., Newark, N. J. Filing-envelope. No. 1,132,972; Mar. 23; Gaz. vol. 212; p. 1227.
- Ralston, Alfred I., Weeping Water, Nebr. Stock-watering apparatus. No. 1,157,122; Oct. 19; Gaz. vol. 219; p. 683.
- Ralston, Gavin C., Lee, assignor to J. Stone & Company, Limited, Deptford, England. Apparatus for discharging refuse from ships. No. 1,133,503; Mar. 30; Gaz. vol. 212; p. 1451.
- Ralston, Joseph S. (See Hartough and Alquist, assignors.)
- Ralston, Robert P., New Concord, Ohio. Popper, toaster, and baker combined. No. 1,157,326; Oct. 19; Gaz. vol. 219; p. 755.
- Ralston Steel Car Company, The. (See Sage and Tatum, assignors.)
- Ralston Steel Car Company, The. (See Weaver, Robert R., assignor.)
- Ramage, Alexander S., Buffalo, assignor to International Color & Chemical Company, Incorporated, Detroit, Mich. Spraying composition. No. 1,166,387; Dec. 28; Gaz. vol. 221; p. 1407.
- Ramage, George W., Cleveland, Ohio. Geographical time-globe. No. 1,152,904; Sept. 7; Gaz. vol. 218; p. 193.
- Ramén, Arthur, and K. J. Beskow, Helsingborg, Sweden. Chloridizing roasting of ores. No. 1,124,519; Jan. 12; Gaz. vol. 210; p. 504.
- Ramén, Arthur, and K. J. Beskow, Helsingborg, Sweden. Chloridizing roasting of ores. No. 1,129,123; Feb. 23; Gaz. vol. 211; p. 986.
- Ramey, Mollie L., Artesia, N. Mex. Washing-machine. No. 1,139,907; May 18; Gaz. vol. 214; p. 843.
- Ramlow, Frederick C., Chicago, Ill. Pressing-board. No. 1,154,726; Sept. 28; Gaz. vol. 218; p. 927.
- Ramm, George F., Del Monte, Cal. Clothes-pin. No. 1,127,676; Feb. 9; Gaz. vol. 211; p. 392.
- Ramsaier, William J., New York, N. Y. Printing-press. No. 1,158,285; Oct. 26; Gaz. vol. 219; p. 1153.
- Ramsay, Allan. (See Jackson, Thomas, assignor.)
- Ramsay, Charles T., Liverpool, England. Optical instrument for use in playing the game of golf or like ball games. No. 1,135,921; Apr. 13; Gaz. vol. 213; p. 692.
- Ramsay, Henry, London, England. Cushion-pad for hat-pins. No. 1,161,527; Nov. 23; Gaz. vol. 220; p. 1232.
- Ramsay, Norman F., Newcastle-upon-Tyne, England. Ship's-table guard or fiddle. No. 1,138,974; May 11; Gaz. vol. 214; p. 478.
- Ramsburg, Charles J. (See Lovekin, Ramsburg, and Nichols.)
- Ramsdell, Fred L., Hayward, Wis. Runner attachment for automobiles. No. 1,154,431; Sept. 21; Gaz. vol. 218; p. 798.
- Ramsden, Edward, Perth, Ontario, Canada. Forging steel car-wheels. No. 1,132,213; Mar. 16; Gaz. vol. 212; p. 900.
- Ramsey, Edia R., Penn Yan, N. Y. Game apparatus. No. 1,127,279; Feb. 2; Gaz. vol. 211; p. 216.
- Ramsey, Frank T., Austin, Tex. Vehicle. No. 1,138,148; May 4; Gaz. vol. 214; p. 151.
- Ramsey, George W., Peoria, Ill. Type-writer ribbon. No. 1,130,020; Mar. 2; Gaz. vol. 212; p. 63.
- Ramsey, James C., Jr., Andover, Mass., assignor, by mesne assignments, to Aiken Lamp Company, Franklin, N. H. Lamp-support. No. 1,147,973; July 27; Gaz. vol. 216; p. 1116.
- Ramsey, James N. (See Puthoff, Nunnally, and Ramsey.)
- Ramsey, John A., and C. P. Hulburd, assignors to Charles F. Eytan Co., Los Angeles, Cal. Moving-picture camera. No. 1,159,796; Nov. 9; Gaz. vol. 220; p. 520.
- Ramsey, Joseph A., Beatrice, Nebr. Vehicle end-gate. No. 1,135,844; Apr. 13; Gaz. vol. 213; p. 667.
- Ramsey, Joseph H. (See Clearwater, Temple, and Ramsey.)
- Ramsey, Samuel W., Youngstown, Ohio. Composition for finishing plastered surfaces. No. 1,127,514; Feb. 9; Gaz. vol. 211; p. 339.
- Ramsey, Walter C., Peculiar, Mo. Hinge. No. 1,155,161; Sept. 28; Gaz. vol. 218; p. 1078.
- Ramsey, William A., *et al.* (See Chrisco, Israel M., assignor.)
- Ramsey, William H., Minneapolis, Minn. Shoe-shining stand. No. 1,124,520; Jan. 12; Gaz. vol. 210; p. 505.
- Ranagan, William H., Vineland, N. J. Bottle-stopper. No. 1,135,718; Apr. 13; Gaz. vol. 213; p. 623.
- Rand, David L., Ayr, N. D. Magnetic separator. No. 1,138,889; May 11; Gaz. vol. 214; p. 449.
- Rand, Festus S., Providence, and G. N. Taylor, East Providence, R. I., assignors to Universal Winding Company, Portland, Me. Tension device. No. 1,156,927; Oct. 19; Gaz. vol. 219; p. 613.
- Rand, Festus S., Providence, and G. N. Taylor, East Providence, R. I., assignors to Universal Winding Company, Portland, Me. Winding-machine. No. 1,163,037; Dec. 7; Gaz. vol. 221; p. 105.
- Rand, James H., Newton, Mass. Indicator device. No. 1,149,081; Aug. 3; Gaz. vol. 217; p. 210.
- Rand, James H., Newton, Mass. Adjustable indicator. No. 1,149,082; Aug. 3; Gaz. vol. 217; p. 211.
- Rand, James H., Jr., North Tonawanda, N. Y. Guide for index systems. No. 1,140,480; May 25; Gaz. vol. 214; p. 1080.
- Rand, James H., Jr., North Tonawanda, N. Y. Card-index system. No. 1,142,728; June 8; Gaz. vol. 215; p. 610.
- Rand, James H. and J. H., Jr., North Tonawanda, N. Y. Index-guide. No. 1,128,044; Feb. 9; Gaz. vol. 211; p. 525.
- Rand, James H. and J. H., Jr., North Tonawanda, N. Y. Account-book. No. 1,151,820; Aug. 31; Gaz. vol. 217; p. 1440.
- Rand, James H., and J. H., Jr., North Tonawanda, N. Y. Filing device. No. 1,158,074; Oct. 26; Gaz. vol. 219; p. 1079.
- Rand, Silas J., Manila, Philippine Islands. Drying apparatus. No. 1,149,948; Aug. 10; Gaz. vol. 217; p. 627.
- Randall, Alfred B. (See Blevins and Randall.)
- Randall, Byron S., Hustisford, Wis. Vent-valve for fluid-reservoirs. No. 1,165,901; Dec. 28; Gaz. vol. 221; p. 1231.
- Randall, Calvin D., Reward, Cal. Portable drilling-rig. No. 1,138,506; May 4; Gaz. vol. 214; p. 274.
- Randall, Chester J., Waltham, Mass., assignor to Boston Rubber Shoe Company. Pressure-applying apparatus for rubber footwear. No. 1,158,390; Oct. 26; Gaz. vol. 219; p. 1190.
- Randall, Edison E., Kankakee, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine. No. 1,143,552; June 15; Gaz. vol. 215; p. 939.
- Randall, Edison E., Kankakee, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine. No. 1,166,077; Dec. 28; Gaz. vol. 221; p. 1291.
- Randall, Frank C., Benton Harbor, Mich. Fruit-washer. No. 1,161,727; Nov. 23; Gaz. vol. 220; p. 1298.
- Randall Graphite Sheet Lubricator Company. (See Thacher, Walter P., assignor.)
- Randall, James D., assignor to The J. D. Randall Company, Cincinnati, Ohio. Channeler for awls. No. 1,125,394; Jan. 19; Gaz. vol. 210; p. 854.
- Randall, James D., Lawley, Fla., assignor to The J. D. Randall Company, Cincinnati, Ohio. Horse-collar-stuffing machine. No. 1,151,714; Aug. 31; Gaz. vol. 217; p. 1401.
- Randall, Jay E., *et al.* (See Bardeen, Hugh A., assignor.)
- Randall, John A., Brooklyn, N. Y. Dynamometer. No. 1,134,418; Apr. 6; Gaz. vol. 213; p. 121.

- Randall, John A., Brooklyn, N. Y. Dynamometer. No. 1,136,366; Apr. 20; Gaz. vol. 213; p. 891.
- Randall, John A., Brooklyn, N. Y. Clutch. No. 1,162,190; Nov. 30; Gaz. vol. 220; p. 1508.
- Randall, John J., Butte, Mont. Spring-heel. No. 1,160,756; Nov. 16; Gaz. vol. 220; p. 913.
- Randall, Karl C., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of electrical distribution. No. 1,164,015; Dec. 14; Gaz. vol. 221; p. 493.
- Randall, Karl C., S. W. Farnsworth, Edgewood Park, and C. L. Fortescue, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Insulating-body for electrical apparatus. No. 1,129,520; Feb. 23; Gaz. vol. 211; p. 1124.
- Randall, Karl C., Edgewood Park, S. W. Farnsworth, and C. L. Fortescue, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical insulator. No. 1,129,521; Feb. 23; Gaz. vol. 211; p. 1125.
- Randall, Reuben, Vernon, British Columbia, Canada. Fruit-picker's receptacle. No. 1,152,217; Aug. 31; Gaz. vol. 217; p. 1576.
- Randall, Thomas C., Newport, R. I. Hair-drying frame. No. 1,141,826; June 1; Gaz. vol. 215; p. 258.
- Randall, Thomas L., and G. W. Lester, Centerville, Mo. Wire-fence clamp. No. 1,144,432; June 29; Gaz. vol. 215; p. 1300.
- Randall, Victor E., assignor of one-half to H. E. Russell, Battle Creek, Mich. Manufacture of cement burial-cases. No. 1,144,970; June 29; Gaz. vol. 215; p. 1482.
- Randall, Victor E., and H. E. Russell, Battle Creek, Mich. Reinforcing structure for burial-cases. No. 1,163,853; Dec. 14; Gaz. vol. 221; p. 438.
- Randall, Wellington, Marysville, Wash. Washing-machine. No. 1,145,795; July 6; Gaz. vol. 216; p. 287.
- Randel, Ivar A. (See McCord and Randel.)
- Randel, Ivar A., assignor to McCord and Company, Chicago, Ill. Combined truck-frame and journal-box. No. 1,123,374; Jan. 5; Gaz. vol. 210; p. 61.
- Randel, Ivar A., assignor to McCord and Company, Chicago, Ill. Dust-guard wall for journal-boxes. No. 1,148,624; Aug. 3; Gaz. vol. 217; p. 51.
- Randel, Ivar A., and A. C. McCord, Chicago, Ill. T-pin for axle-box lids. No. 1,146,953; July 20; Gaz. vol. 216; p. 732.
- Randell, James E. (See Petersen, Christian H., assignor.)
- Randle, William A., Weatherford, Okla. Head-screen. No. 1,124,521; Jan. 12; Gaz. vol. 210; p. 505.
- Randles, James H., Poplar Bluff, Mo. Pump. No. 1,155,370; Oct. 5; Gaz. vol. 219; p. 16.
- Randolph, August T., Desloge, Mo. Cinder blower-trap for locomotives. No. 1,150,704; Aug. 17; Gaz. vol. 217; p. 953.
- Randolph, Coleman L., Boonville, Mo. Disinfectant or fumigating attachment for nests. No. 1,156,021; Oct. 5; Gaz. vol. 219; p. 241.
- Randolph, George W., Winamac, Ind. Corn-planter marker. No. 1,164,393; Dec. 14; Gaz. vol. 221; p. 626.
- Randolph, James W., Handley, Tex. Plow. No. 1,123,922; Jan. 5; Gaz. vol. 210; p. 247.
- Randolph, Smith M., Chicago, Ill. Concrete-mold or the like. No. 1,153,254; Sept. 14; Gaz. vol. 218; p. 352.
- Randolph, Theodore, Cleveland, Ohio. Storage hat-box. No. 1,138,414; May 4; Gaz. vol. 214; p. 244.
- Randolph, William M., Pittsburgh, Pa. Nail-cutter. No. 1,163,455; Dec. 7; Gaz. vol. 221; p. 252.
- Rands, William C., Detroit, Mich. Weather-strip. No. 1,159,867; Nov. 9; Gaz. vol. 220; p. 546.
- Raney, Joseph H. (See Laird and Raney.)
- Raney-Laird Petroleum Dehydrating Company. (See Laird and Raney, assignors.)
- Raney, Thomas M., Leadville, Colo. Fruit-gatherer. No. 1,138,789; May 11; Gaz. vol. 214; p. 414.
- Rang, Helen, New York, N. Y. Hose-supporter. No. 1,149,083; Aug. 3; Gaz. vol. 217; p. 211.
- Rank, John, Olympia, Wash. Link-operating mechanism for locomotives. No. 1,140,481; May 25; Gaz. vol. 214; p. 1080.
- Rankin, Albert A., Schenectady, N. Y. Oven. No. 1,162,399; Nov. 30; Gaz. vol. 220; p. 1579.
- Rankin, Archibald P., assignor to Manitowoc Ship Building and Dry Dock Company, Manitowoc, Wis. Hatch-cover-supporting device. No. 1,126,864; Feb. 23; Gaz. vol. 211; p. 71.
- Rankin, Edmund, Lincoln, Ill. Boiler-cleaner. No. 1,135,139; Apr. 13; Gaz. vol. 213; p. 422.
- Rankin, Edmund, Lincoln, Ill. Boiler-cleaner. No. 1,153,953; Sept. 21; Gaz. vol. 218; p. 634.
- Rankin, Harry D., Pittsburgh, Pa., assignor to Rankin Process Company, Phoenix, Ariz. Apparatus and method for producing nitric acid. No. 1,150,786; Aug. 17; Gaz. vol. 217; p. 981.
- Rankin, Harry D., Crafton, Pa., assignor, by mesne assignments, to Rankin Process Company, Phoenix, Ariz. Treating metalliferous materials and recovering solvents used. No. 1,150,787; Aug. 17; Gaz. vol. 217; p. 981.
- Rankin, John W., assignor to Canadian Car & Foundry Company, Limited, Montreal, Quebec, Canada. Bolster end member. No. 1,151,040; Aug. 24; Gaz. vol. 217; p. 1127.
- Rankin Process Company. (See Rankin, Harry D., assignor.)
- Rankin, William H., Waltham, Mass. Loom. No. 1,134,063; Mar. 30; Gaz. vol. 212; p. 1647.
- Rankin, William J. A., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Cableway. No. 1,133,818; Mar. 30; Gaz. vol. 212; p. 1567.
- Ranney, Darwin D., assignor to Atlantic Can Company, Baltimore, Md. Can-soldering machine. No. 1,133,237; Mar. 23; Gaz. vol. 212; p. 1320.
- Rauney, Leo, New York, N. Y. Fountain-pen. No. 1,124,659; Jan. 12; Gaz. vol. 210; p. 557.
- Ransing, Henry E., et al. (See Mentzer, Oliver A., assignor.)
- Ransom, Frank H., Jr., Buffalo, N. Y. Device for dispensing liquid soap, &c. No. 1,165,711; Dec. 28; Gaz. vol. 221; p. 1166.
- Ransom, George P., et al. (See Thayer, Charles H., assignor.)
- Ransom, Willard G., Davenport, Iowa. Load-regulated brake mechanism. No. 1,133,667; Mar. 30; Gaz. vol. 212; p. 1513.
- Ransome, Ernest L., Plainfield, N. J. Laying or constructing concrete courses. No. 1,163,770; Dec. 14; Gaz. vol. 221; p. 408.
- Ransome International Conduit Co. (See Brewer, Alfred A., assignor.)
- Rantasa, Jakob, Vienna, Austria-Hungary. Motor-sledge. No. 1,162,806; Dec. 7; Gaz. vol. 221; p. 26.
- Rapax-Apparatenbau-Gesellschaft m. b. H. (See Glas and Sokal, assignors.)
- Rapid Button-Attaching Machine Company, The. (See Kotkovsky, Benjamin, assignor.)
- Rapid Equipment Company. (See Anthony, Stanley, assignor.)
- Rapid Transit Air Navigation Company. (See Berry, Harry C., assignor.)
- Rapp, Axel G. J., assignor to Link-Belt Company, Chicago, Ill. Settling-tank. No. 1,137,351; Apr. 27; Gaz. vol. 213; p. 1282.
- Rapp, John W., assignor to United States Metal Products Company, New York, N. Y. Metal door and similar device. No. 1,124,660; Jan. 12; Gaz. vol. 210; p. 557.
- Rapp, Nathaniel, Toledo, Ohio. Muffler. No. 1,155,757; Oct. 5; Gaz. vol. 219; p. 149.
- Rapp, William M., Atlanta, Ga. Catch-basin. No. 1,143,915; June 22; Gaz. vol. 215; p. 1088.
- Rappaport, Paul, New York, N. Y. Display-cover for boxes. No. 1,141,144; June 1; Gaz. vol. 215; p. 18.
- Rappel, Rolletta, Reedsville, Wis. Convertible chair. No. 1,150,622; Aug. 17; Gaz. vol. 217; p. 925.
- Rappenecker, Alphonse, Bremen, Germany. Transmitter for writing-telegraphs and the like. No. 1,135,393; Apr. 13; Gaz. vol. 213; p. 507.
- Rappleye, Frank A., Interlaken, N. Y., assignor to Hover-Incubator Manufacturing Company, Brown Mills, N. J. Poultry exerciser and feeder. No. 1,132,973; Mar. 23; Gaz. vol. 212; p. 1228.
- Rapsch, Gustav, Rockville Center, N. Y. Emergency lubricating device. No. 1,147,266; July 20; Gaz. vol. 216; p. 841.
- Rapson, Frederick W. (See Roberts and Rapson.)
- Rapson & Sons, William. (See Roberts and Rapson, assignors.)
- Raptias, Nick, Birmingham, Ala. Washer-holder rivet-set. No. 1,156,434; Oct. 12; Gaz. vol. 219; p. 411.
- Rardon, Arthur L., Browning, Mo. Corn-planter. No. 1,158,847; Nov. 2; Gaz. vol. 220; p. 154.
- Rasanen, Anders J., Springfield, Mass. Gas water-heater. No. 1,148,799; Aug. 3; Gaz. vol. 217; p. 114.
- Rashbridge, Edward A., Scranton, Pa. Safety-cap for inflation-valves of pneumatic tires. No. 1,161,728; Nov. 23; Gaz. vol. 220; p. 1299.
- Rasch, Gustave C., Burlington, Wis. Adjustable breastfastening for blankets. No. 1,155,371; Oct. 5; Gaz. vol. 219; p. 16.
- Rasch, William G., Burlington, Wis. Chauffeur-robe. No. 1,163,366; Dec. 7; Gaz. vol. 221; p. 222.
- Raschick, Charles T., St. Paul, Minn. Pad-holder. No. 1,129,311; Feb. 23; Gaz. vol. 211; p. 1031.
- Raschig, Fritz, Ludwigshafen-on-the-Rhine, Germany. Production of nitric acid. No. 1,130,104; Mar. 2; Gaz. vol. 212; p. 91.
- Raschig, Fritz, Ludwigshafen-on-the-Rhine, Germany. Process and apparatus for continuous distillation. No. 1,141,265; June 1; Gaz. vol. 215; p. 62.
- Raschig, Fritz, Ludwigshafen-on-the-Rhine, Germany. Absorption and reaction tower for acids, &c. No. 1,141,266; June 1; Gaz. vol. 215; p. 62.
- Raschig, Fritz, Ludwigshafen-on-the-Rhine, Germany. Process and apparatus for concentrating dilute nitric acid. No. 1,163,174; Dec. 7; Gaz. vol. 221; p. 154.
- Rasco, Levi. (See Owen and Rasco.)
- Rasehorn, Paul, Halensee, near Berlin, and G. Grossmann, Charlottenburg, assignors to Siemens & Halske, A.-G., Berlin, Germany. Apparatus for neutralizing electric charges in fibrous materials. No. 1,154,127; Sept. 21; Gaz. vol. 218; p. 693.
- Raser, Harry T., Ashtabula, Ohio. Oil-engine. No. 1,163,604; Dec. 7; Gaz. vol. 221; p. 304.
- Rasey, John D., Oshkosh, Wis. Level. No. 1,128,361; Feb. 16; Gaz. vol. 211; p. 684.

Alphabetical list of patentees—Continued.

- Rasmussen, Alfred, St. Paul, Minn. Wire-stretcher. No. 1,124,522; Jan. 12; Gaz. vol. 210; p. 505.
- Rasmussen, Andrew, Racine Junction, assignor to Peerless Silo Supply Co., Racine, Wis. Hoop for silos and like tanks. No. 1,141,413; June 1; Gaz. vol. 215; p. 118.
- Rasmussen, Andrew M. (See Tuller and Rasmussen.)
- Rasmussen, Carl, Brunswick, Germany. Calculating-machine. No. 1,150,705; Aug. 17; Gaz. vol. 217; p. 954.
- Rasmussen, Carl J., Seattle, Wash. Clock striking apparatus. No. 1,129,728; Feb. 23; Gaz. vol. 211; p. 1193.
- Rasmussen, Christian, Kimballton, Iowa. Gate. No. 1,145,511; July 6; Gaz. vol. 216; p. 187.
- Rasmussen, Flnd. (See Arntzen and Rasmussen.)
- Rasmussen, Frederick W., Pahiatua, New Zealand. Automatically-folding seat. No. 1,141,724; June 1; Gaz. vol. 215; p. 226.
- Rasmussen, Laurits T., Council Bluffs, Iowa. Packing and mulching implement. No. 1,132,118; Mar. 16; Gaz. vol. 212; p. 865.
- Rasmussen, Martin, assignor to B. C. Thronson, Racine, Wis. Tank. No. 1,131,271; Mar. 9; Gaz. vol. 212; p. 530.
- Rasmussen, Martin, assignor of one-half to B. C. Thronson, Racine, Wis. Glazing. No. 1,164,866; Dec. 21; Gaz. vol. 221; p. 831.
- Rasmussen, Martin, assignor of one-half to E. J. Schowalter and one-half to B. C. Thronson, Racine, Wis. Glazing. No. 1,164,867; Dec. 21; Gaz. vol. 221; p. 831.
- Rasmussen, Peter, Eustis, Nebr. Harness-buckle. No. 1,148,988; Aug. 3; Gaz. vol. 217; p. 178.
- Rasmussen, Peter, and M. F. Goularte, Selma, Cal. Window-operating mechanism. No. 1,153,404; Sept. 14; Gaz. vol. 218; p. 407.
- Rasmussen, Peter W., Crawford township, Antelope county, Nebr. Sash and door holder. No. 1,156,813; Oct. 12; Gaz. vol. 219; p. 541.
- Rassieur, Leo, Jr., trustee. (See Patten, Elmer E., assignor.)
- Rassmann, Hugo C., assignor to F. Rassmann Mfg. Co., (Incorporated,) Beaver Dam, Wis. Stall construction for animals. No. 1,126,566; Jan. 26; Gaz. vol. 210; p. 1307.
- Rast, Felix Q., assignor to Public Supply Company, New York, N. Y. Vending-machine. No. 1,150,062; Aug. 17; Gaz. vol. 217; p. 727.
- Rast, Felix Q., New York, N. Y. and C. G. Peirce, Montclair, N. J.; said Rast assignor to Public Supply Company, New York, N. Y. Vending-machine. No. 1,137,715; Apr. 27; Gaz. vol. 213; p. 1404.
- Rast, George P., Orange Springs, Fla. Fruit-wrapping-paper holder. No. 1,126,081; Jan. 26; Gaz. vol. 210; p. 1132.
- Rastetter & Son, Louis. (See Dick, Ralph W., assignor.)
- Ratchet Brake Company. (See Blackall, Robert H., assignor.)
- Ratchet Brake Company. (See Evans and Willing, assignors.)
- Rateau, Auguste C. E., Paris, France. Shaft-bearing. No. 1,125,172; Jan. 19; Gaz. vol. 210; p. 773.
- Rateau, Auguste C. E., Paris, France, assignor, by mesne assignments, to Rateau Battu Smoot Company. Lubricating device. No. 1,125,173; Jan. 19; Gaz. vol. 210; p. 773.
- Rateau, Auguste C. E., Paris, France, assignor to Rateau Battu Smoot Company, New York, N. Y. Multistage compressor. No. 1,140,065; May 18; Gaz. vol. 214; p. 900.
- Rateau Battu Smoot Company. (See Rateau, Auguste C. E., assignor.)
- Rateau, Battu, Smoot Company. (See Smoot, Charles H., assignor.)
- Rateau Steam Regenerator Company. (See Battu, Leonce P. L., assignor.)
- Rateau Steam Regenerator Company. (See McNulta, Herbert, assignor.)
- Rath, Ernst J. (See Laska and Rath.)
- Rathbone, Charles L., Bozrah, Conn. Oar-lock. No. 1,155,275; Sept. 28; Gaz. vol. 218; p. 1113.
- Rathbone, Sard & Company. (See Allen, Ernest J., assignor.)
- Rathbun, George J., Toledo, Ohio. Engine valve-gear. No. 1,159,708; Nov. 9; Gaz. vol. 220; p. 487.
- Rathbun, Harry C. (See High and Rathbun.)
- Rathbun, Henry E., Worcester, Mass. Porch-shade. No. 1,163,951; Dec. 14; Gaz. vol. 221; p. 471.
- Rathbun, John E., Towaco, N. J. Printing-press. No. 1,162,650; Nov. 30; Gaz. vol. 220; p. 1661.
- Rathbun, William L., assignor to Panama Banana Food Company, New York, N. Y. Banana-peeler and peeling bananas. No. 1,143,135; June 15; Gaz. vol. 215; p. 794.
- Rathjien, William L., Portland, Oreg. Nursing-bottle holder. No. 1,142,729; June 8; Gaz. vol. 215; p. 610.
- Rathmann, Edward G., Delta, Ohio. Handle attachment for automobiles. No. 1,135,615; Apr. 13; Gaz. vol. 213; p. 586.
- Ratignier, Marius, Lyon, France. Treatment of open-mesh textile fabrics. No. 1,133,062; Mar. 23; Gaz. vol. 212; p. 1260.
- Ratterree, James N., Little Rock, Ark. Tire. No. 1,138,315; May 4; Gaz. vol. 214; p. 208.
- Rau, Albert J., Clifton, N. J. Dyeing. No. 1,131,083; Mar. 9; Gaz. vol. 212; p. 465.
- Rau, Albert J. and J. A. Clifton, N. J. Dyeing apparatus. No. 1,131,084; Mar. 9; Gaz. vol. 212; p. 465.
- Rau, Doublefabrik, G. (See Feeser, Viktor, assignor.)
- Rau, John, Indianapolis, Ind. Machine for making hollow glassware. No. 1,149,857; Aug. 10; Gaz. vol. 217; p. 594.
- Rau, John, Indianapolis, Ind. Glass-tank-discharging means. No. 1,151,393; Aug. 24; Gaz. vol. 217; p. 1244.
- Rau, John, Indianapolis, Ind. Glass-blank-pressing mechanism. No. 1,159,992; Nov. 9; Gaz. vol. 220; p. 589.
- Rau, Joseph and W. Fayette, Iowa. Stock-feeder. No. 1,151,901; Aug. 31; Gaz. vol. 217; p. 1468.
- Rau, Julius A. (See Rau, Albert J. and J. A.)
- Rau, Wince. (See Rau, Joseph and W.)
- Raub, Maria M., Brooklyn, N. Y. Composition for chewing-gum. No. 1,136,613; Apr. 20; Gaz. vol. 213; p. 979.
- Rauch, Aron, New York, N. Y. Weaving-frame for hair goods. No. 1,154,338; Sept. 21; Gaz. vol. 218; p. 767.
- Rauch and Lang Carriage Company, The. (See Cookingham and Hertner, assignors.)
- Rauchwetter, Franz, Steglitz, near Berlin, Germany. Calculating-machine. No. 1,127,677; Feb. 9; Gaz. vol. 211; p. 392.
- Rauen, William. (See Wernimont, Henry G., assignor.)
- Rauh, Leopold. (See Malm, Rauh, and Aker.)
- Rauscher, Ferdinand M., and L. Rexroth, Jr., Indianapolis, Ind.; said Rauscher assignor to said Rexroth. Wire measuring and cutting machine. No. 1,162,879; Dec. 7; Gaz. vol. 221; p. 51.
- Rauscher, Frederick, Port Richmond, N. Y. Automobile-signal. No. 1,164,547; Dec. 14; Gaz. vol. 221; p. 679.
- Rauscher, Ferdinand M., and L. Rexroth, Jr., assignors to R. R. Mfg. Co., Indianapolis, Ind. Machine for making clothes-hangers. No. 1,127,515; Feb. 9; Gaz. vol. 211; p. 339.
- Rauscher, Heinrich, Vienna, Austria-Hungary. Calculating-machine. No. 1,136,484; Apr. 20; Gaz. vol. 213; p. 934.
- Ravel, Louis, Besançon, France. Driving mechanism for motor-cars. No. 1,142,621; June 8; Gaz. vol. 215; p. 575.
- Raverty, Edward J., assignor to The New Albany Manufacturing Company, New Albany, Ind. Open-side planer. No. 1,128,187; Feb. 9; Gaz. vol. 211; p. 575.
- Ravlis, Philip. (See Willinger and Ravlis.)
- Rawlin, Frederick J., and J. Lofgren, Chicago, Ill. Plug-switch. No. 1,144,781; June 29; Gaz. vol. 215; p. 1418.
- Rawbon, Joseph L., Toronto, Ontario, Canada. Frame. No. 1,128,362; Feb. 16; Gaz. vol. 211; p. 684.
- Rawley, Wayne, Pittsburgh, Pa., assignor to Blaw Steel Construction Company, Hoboken, N. J. Punching. No. 1,156,928; Oct. 19; Gaz. vol. 219; p. 614.
- Rawlings, Arthur D., and E. J. Clapham, London, England. Automatic sash-raising mechanism. No. 1,154,432; Sept. 21; Gaz. vol. 218; p. 798.
- Rawlings, Ernest J. (See Rawlings, Arthur D. and E. J.)
- Rawlings, Eugene J., Kansas City, Mo. Moccasin. No. 1,128,902; Feb. 16; Gaz. vol. 211; p. 873.
- Rawlings, Joshua S., Jr., Baltimore, Md. Harrow attachment for plows. No. 1,148,254; July 27; Gaz. vol. 216; p. 1217.
- Rawlings, Samuel V., Calumet, Mich. Machine for making and sharpening drill-bits. No. 1,140,396; May 25; Gaz. vol. 214; p. 1049.
- Rawlings, Walter D., Ensley, Ala. Machine for making clay tile, conduits, or bricks. No. 1,157,724; Oct. 26; Gaz. vol. 219; p. 957.
- Rawlings, William S., Marshall, Ind. Tire-protector and antiskid device. No. 1,130,539; Mar. 2; Gaz. vol. 212; p. 246.
- Rawlins, Charles L., administrator. (See Mallard, Charles C.)
- Rawls, Theophilus M., and R. A. Miller, Dublin, Tex. Window shade, curtain, and drapery hanger. No. 1,130,929; Mar. 9; Gaz. vol. 212; p. 413.
- Rawson, William S., East Orange, N. J. Sash-fastener. No. 1,151,715; Aug. 31; Gaz. vol. 217; p. 1401.
- Ray, Albert D., Cleveland, Ohio, assignor of one-fourth to C. E. Bigelow, Grand Rapids, Mich. Bottle-closure. No. 1,153,518; Sept. 14; Gaz. vol. 218; p. 448.
- Ray, Albert D., and C. N. Russell, Cleveland, Ohio. Bottle-capping machine. No. 1,141,267; June 1; Gaz. vol. 215; p. 63.
- Ray, Alfred L., Victoria, British Columbia, Canada. Emergency-brake for automobiles. No. 1,148,047; July 27; Gaz. vol. 216; p. 1143.
- Ray, Baker B. (See Ray, Rufus T. and B. B.)
- Ray, Blanche, Citronelle, Ala. Egg substitute and making it. No. 1,154,805; Sept. 28; Gaz. vol. 218; p. 954.
- Ray, Earl. (See Ray, Henry S. and E.)
- Ray, Forest A., Boston, Mass. Power-generator. No. 1,164,960; Dec. 21; Gaz. vol. 221; p. 864.
- Ray, Frederick, Short Hills, N. J., assignor to Albergei Pump and Condenser Company, New York, N. Y. Surface condenser. No. 1,137,422; Apr. 27; Gaz. vol. 213; p. 1308.
- Ray, Frederick, Short Hills, N. J., assignor to Albergei Pump and Condenser Company, New York, N. Y. Jecondensing apparatus. No. 1,160,652; Nov. 16; Gaz. vol. 220; p. 876.

- Ray, Gabriel F., Roswell, N. Mex. Dish-washer. No. 1,141,414; June 1; Gaz. vol. 215; p. 118.
- Ray, George A., assignor to George A. Ray Manufacturing Company, Buffalo, N. Y. Coffee-urn. No. 1,157,805; Oct. 26; Gaz. vol. 219; p. 984.
- Ray, Henry S. and E., Louisiana, Mo. Tool for tying reinforcing-rods. No. 1,159,271; Nov. 2; Gaz. vol. 220; p. 299.
- Ray, Hiezekiah, Des Moines, Iowa. Fertilizer device. No. 1,133,182; Mar. 23; Gaz. vol. 212; p. 1303.
- Ray, James, Jourdantown, Tex. Printing by lithography. No. 1,129,901; Mar. 2; Gaz. vol. 212; p. 24.
- Ray, Miles E., assignor to P. L. Andrews, Toledo, Ohio. Beer-pipe and beer-coil cleaner. No. 1,151,968; Aug. 31; Gaz. vol. 217; p. 1490.
- Ray, Rufus T. and B. B., Fostoria, Ohio. Automatic stamp-vending machine. No. 1,128,721; Feb. 16; Gaz. vol. 211; p. 807.
- Ray, William H., assignor, by mesne assignments, to Saranac Machine Co., St. Joseph, Mich. Sheet-metal-faster-driving machine. No. 1,152,840; Sept. 7; Gaz. vol. 218; p. 169.
- Rayburn, Alden G. (See Rayburn, Elwyn M. and A. G.)
- Rayburn, Elwyn M. and A. G., Sausalito, Cal. Speed-changing gear. No. 1,138,415; May 4; Gaz. vol. 214; p. 245.
- Rayfield, Charles L., Chicago, Ill. Strainer. No. 1,160,653; Nov. 16; Gaz. vol. 220; p. 876.
- Raymaker, James H., Sheboygan Falls, Wis. Valve. No. 1,145,703; July 6; Gaz. vol. 216; p. 255.
- Raymond-Barker, Edward, Wimbledon, assignor to The Amalgamated Radio-Telegraph Company, Limited, London, England. Radio telegraphy. No. 1,139,226; May 11; Gaz. vol. 214; p. 567.
- Raymond Concrete Pile Company. (See Wainwright and Smith, assignors.)
- Raymond Concrete Pile Company. (See Watt, Elihu D., assignor.)
- Raymond, Daniel J., Crandon, Wis. Operating device for split-wheel rims. No. 1,163,456; Dec. 7; Gaz. vol. 221; p. 252.
- Raymond, Ed. J. (See Kate, John H., assignor.)
- Raymond, Francis D., Fall River, Mass. Loom. No. 1,152,905; Sept. 7; Gaz. vol. 218; p. 193.
- Raymond, George A., assignor to National Fence Machine Company, Detroit, Mich. Wire-fence machine. No. 1,149,596; Aug. 10; Gaz. vol. 217; p. 497.
- Raymond, Harry K., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Tire fabric. No. 1,123,375; Jan. 5; Gaz. vol. 210; p. 61.
- Raymond, Harry T., assignor to G. C. Andrews, Minneapolis, Minn. Thermostat. No. 1,131,733; Mar. 16; Gaz. vol. 213; p. 724.
- Raymond, John D., Chicago, Ill. Electric-lighting fixture. No. 1,158,286; Oct. 26; Gaz. vol. 219; p. 1154.
- Raymond, John W., assignor to The Air Friction Carburetor Company, Dayton, Ohio. Carburetor. No. 1,124,949; Jan. 12; Gaz. vol. 210; p. 658.
- Raymond, Nelson H., Buffalo, N. Y., assignor to Clifton Manufacturing Company, Boston, Mass. Making pipes for electrical conduits. No. 1,143,916; June 22; Gaz. vol. 215; p. 1088.
- Raymond, Philip L., Reading, Pa. Spark-arrester. No. 1,138,890; May 11; Gaz. vol. 214; p. 449.
- Raymond, Reuben M., Malden, Mass. Carpenter's gage. No. 1,136,367; Apr. 20; Gaz. vol. 213; p. 891.
- Raymond, William E., Spencer, N. Y. Attachment for vehicles. No. 1,158,556; Nov. 2; Gaz. vol. 220; p. 53.
- Raynaud, Charles F., assignor to The Pacific Folding Box Factory, Inc., San Francisco, Cal. Carton. No. 1,151,821; Aug. 31; Gaz. vol. 217; p. 1440.
- Rayner, William H., assignor to Mast, Foos & Co., Springfield, Ohio. Valve mechanism. No. 1,147,891; July 27; Gaz. vol. 216; p. 1087.
- Rayvio Water Company. (See Wagner, Walter, assignor.)
- Razntch, Jahn, Cloquet, Minn. Ventilating appliance. No. 1,140,609; May 25; Gaz. vol. 214; p. 1125.
- Razny, Henry, Detroit, Mich. Mail-box. No. 1,136,050; Apr. 20; Gaz. vol. 213; p. 778.
- Re, Alfred, New York, N. Y. Double-key lock. No. 1,134,907; Apr. 6; Gaz. vol. 213; p. 294.
- Re, Eugene, St. Louis, Mo. Non-refillable bottle. No. 1,141,487; June 1; Gaz. vol. 215; p. 143.
- Re, Eugene, St. Louis, Mo. Non-refillable bottle. No. 1,148,255; July 27; Gaz. vol. 216; p. 1217.
- Rea, Frank, assignor of one-half to A. M. Sheakley, San Francisco, Cal. Fly-catcher. No. 1,165,712; Dec. 28; Gaz. vol. 221; p. 1166.
- Rea, Harry L., Jenkintown, Pa. Awning-frame. No. 1,147,544; July 20; Gaz. vol. 216; p. 939.
- Rea, Henry P. (See Wilson, Homer S., assignor.)
- Rea, Robert, Portland, Oreg. Drier. No. 1,126,567; Jan. 26; Gaz. vol. 210; p. 1307.
- Reaben, George B., Hattiesburg, Miss. Trolley-retriever. No. 1,135,845; Apr. 13; Gaz. vol. 213; p. 667.
- Reach, George A. (See Gamble, John, assignor.)
- Reach, Milton B., assignor to A. G. Spalding & Bros. Manufg. Co., Chicopee, Mass. Skate. No. 1,123,593; Jan. 5; Gaz. vol. 210; p. 135.
- Reach, Milton B., assignor to A. G. Spalding & Bros. Manufacturing Co., Chicopee, Mass. Playground apparatus. No. 1,126,082; Jan. 26; Gaz. vol. 210; p. 1132.
- Reach, Milton B., Springfield, and W. Richey, assignors to A. G. Spalding & Bros. Manfg. Co., Chicopee, Mass. Tennis-racket frame. No. 1,131,418; Mar. 9; Gaz. vol. 212; p. 581.
- Reach, Robert, Springfield, assignor to A. G. Spalding & Bros. Manfg. Company, Chicopee, Mass. Golf teeing-stand. No. 1,129,013; Feb. 16; Gaz. vol. 211; p. 912.
- Reach, William F., Chicopee, Mass. Discus. No. 1,134,008; Mar. 30; Gaz. vol. 212; p. 1627.
- Reach, William F., assignor to A. G. Spalding & Bros. Manfg. Company, Chicopee, Mass. Hockey-skate. No. 1,130,335; Mar. 2; Gaz. vol. 212; p. 171.
- Read, Fred A., Lynn, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-stitching machine. No. 1,140,482; May 25; Gaz. vol. 214; p. 1081.
- Read, Fred A., Lynn, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,156,249; Oct. 12; Gaz. vol. 219; p. 345.
- Read, Harry V. R., assignor to Aerators Limited, London, England. Device for aerating liquids. No. 1,138,248; May 4; Gaz. vol. 214; p. 183.
- Read, Harry V. R., Charing Cross, London, England, assignor to "Prana" Carbonic Syphon Company, New York, N. Y. Fire-extinguisher. No. 1,145,796; July 6; Gaz. vol. 216; p. 287.
- Read, Edward. (See Gibson, Farmer, and Read.)
- Read, Harry V. R., assignor to Aerators Limited, London, England. Device for aerating liquids. No. 1,126,865; Feb. 2; Gaz. vol. 211; p. 71.
- Read, James A., Arlington, N. J. Auto-tire. No. 1,152,906; Sept. 7; Gaz. vol. 218; p. 194.
- Read, Orrin B., Troy, N. Y. Rein-supporter. No. 1,141,488; June 1; Gaz. vol. 215; p. 144.
- Read, Robert H., Washington, D. C., assignor to General Electric Company. Resistance element and making same. No. 1,127,280; Feb. 2; Gaz. vol. 211; p. 216.
- Read, Robert H., Washington, D. C., assignor to General Electric Company. Resistance-wire for electric heaters. No. 1,127,281; Feb. 2; Gaz. vol. 211; p. 217.
- Read, Robert H., Schenectady, N. Y., assignor to General Electric Company. Electric heater. No. 1,127,373; Feb. 2; Gaz. vol. 211; p. 246.
- Read, Robert H., Washington, D. C., assignor to General Electric Company. Electric heater. No. 1,127,374; Feb. 2; Gaz. vol. 211; p. 246.
- Reade, William A., assignor to The Ludlow Typograph Company, Cleveland, Ohio. Typograph. No. 1,146,277; July 13; Gaz. vol. 216; p. 475.
- Reade, William A., assignor to The Ludlow Typograph Company, Cleveland, Ohio. Composing mechanism for typographs. No. 1,146,278; July 13; Gaz. vol. 216; p. 476.
- Reade, William A., assignor to The Ludlow Typograph Company, Cleveland, Ohio. Composing mechanism for typographs. No. 1,154,054; Sept. 21; Gaz. vol. 218; p. 669.
- Reade, William A., and G. O. Cromwell, assignors to The Ludlow Typograph Company, Cleveland, Ohio. Composing mechanism for typographs. No. 1,130,432; Mar. 2; Gaz. vol. 212; p. 206.
- Reading Crane and Hoist Works. (See Kalbach, Samuel E., assignor.)
- Reading Saddle & Manufacturing Company, The. (See Duem, Miller M., assignor.)
- Reading Saddle & Manufacturing Company, The. (See Printz, Daniel F., assignor.)
- Reading Specialties Company. (See Crawford, John S., assignor.)
- Reagan, Daniel E., Columbus, assignor of one-third to W. Drayton, Shawnee, Ohio. Brickmaking-machine. No. 1,146,594; July 13; Gaz. vol. 216; p. 589.
- Reagan, Edgar U. G., Detroit, Mich. Internal-combustion engine. No. 1,132,489; Mar. 16; Gaz. vol. 212; p. 1000.
- Reagan, William H., Jr., and J. R. McMurray, Miami, Ariz. Concentrator head-motion. No. 1,159,272; Nov. 2; Gaz. vol. 220; p. 299.
- Reagen, George M., and L. A. Marks, Coshocton, Ohio. Roundabout. No. 1,124,950; Jan. 12; Gaz. vol. 210; p. 658.
- Reality Rubber Company, The. (See Richert, Emanuel T., assignor.)
- Ream, Willis F., Seanor, Pa. Trolley. No. 1,152,762; Sept. 7; Gaz. vol. 218; p. 139.
- Reamer, John H., Linton, N. D. Disinfectant apparatus. No. 1,136,268; Apr. 20; Gaz. vol. 213; p. 856.
- Reames, Ralph E., Dent, Minn. Shaving-brush. No. 1,155,096; Sept. 28; Gaz. vol. 218; p. 1056.
- Reams, Calvin V., and J. B. Hopkins, assignors of one-fourth to J. R. Chadbourne and one-fourth to E. J. Sparks, Suisun, Cal. Wrench. No. 1,165,207; Dec. 21; Gaz. vol. 221; p. 951.
- Reardon, Jeremiah P., Coatesville, Pa. Punching and shearing machine. No. 1,143,434; June 15; Gaz. vol. 215; p. 901.
- Reardon, John. (See Van Schaick, Burns, and Reardon.)
- Reardon, John F., North Grosvenor Dale, Conn. Apparatus for blooming and cleansing cotton and the like. No. 1,129,902; Mar. 2; Gaz. vol. 212; p. 24.

Alphabetical list of patentees—Continued.

- Rearick Automatic Check Endorser Company. (See Rearick, William B., assignor.)
- Rearick, Charles B., New London, Conn. Axial-flow steam-turbine. No. 1,152,218; Aug. 31; Gaz. vol. 217; p. 1576.
- Rearick, Charles B., New London, Conn. Elastic-fluid turbine. No. 1,156,371; Oct. 12; Gaz. vol. 219; p. 388.
- Rearick, William B., Baltimore, Md., assignor to Rearick Automatic Check Endorser Company, Wilmington, Del. Check-canceling attachment for adding-machines and the like. No. 1,148,535; Aug. 3; Gaz. vol. 217; p. 18.
- Rearick, William B., Baltimore, Md., assignor to Rearick Automatic Check Endorser Company, Wilmington, Del. Check-canceling attachment for adding-machines and the like. No. 1,148,536; Aug. 3; Gaz. vol. 217; p. 18.
- Reason, John W., Graniteville, Vt. Set-protector for drilling. No. 1,148,537; Aug. 3; Gaz. vol. 217; p. 19.
- Reason, Walter M., Pontiac, Mich. Shoe-shining machine. No. 1,147,816; July 27; Gaz. vol. 216; p. 1060.
- Reasoner, James A., Parkersburg, W. Va., assignor of one-third to E. McCoy and one-third to V. O. Havenner, Valve for pneumatic tires. No. 1,126,568; Jan. 26; Gaz. vol. 210; p. 1308.
- Reaugh, Frank, Oak Cliff, Tex. Pump or motor. No. 1,136,976; Apr. 27; Gaz. vol. 213; p. 1143.
- Reaves, John E., and C. M. Bandy, Sacramento, Cal. Securing device for tappets. No. 1,124,661; Jan. 12; Gaz. vol. 210; p. 557.
- Rebelski, Harry A., Brooklyn, N. Y. Micrometer-caliper. No. 1,155,440; Oct. 5; Gaz. vol. 219; p. 40.
- Reber, George F., Fenton, Iowa. Vehicle-wheel. No. 1,129,729; Feb. 23; Gaz. vol. 211; p. 1193.
- Reber, James C., Reading, Pa. Antifriction-bearing. No. 1,144,245; June 22; Gaz. vol. 215; p. 1207.
- Reber, Thomas D. (See Beam, Willie C., assignor.)
- Rebert, Theodore J. (See Rust, Orton G., assignor.)
- Rebischung, Emil, New York, N. Y. Bell-ringing device. No. 1,147,545; July 20; Gaz. vol. 216; p. 939.
- Rebrovich, John, Pittsburgh, Pa. Brush-guide for dentifrice-containers. No. 1,135,922; Apr. 13; Gaz. vol. 213; p. 692.
- Rebstein, Jakob, Winterthur, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Driving of vehicles. No. 1,144,246; June 22; Gaz. vol. 215; p. 1207.
- Rebtoy, Charles F., Flint, Mich. Railway-switch. No. 1,144,247; June 22; Gaz. vol. 215; p. 1207.
- Reconi, Peter, San Francisco, Cal. Attachment for vises. No. 1,125,395; Jan. 19; Gaz. vol. 210; p. 855.
- Rece, Ashby S., Huntington, W. Va. Locomotive-torch. No. 1,156,097; Oct. 12; Gaz. vol. 219; p. 295.
- Recen, Henry A. (See Knorr, Theodore H., assignor.)
- Recents, Richard H., assignor of one-half to H. G. Burke, Minneapolis, Minn. Dust-collector. No. 1,145,704; July 6; Gaz. vol. 216; p. 255.
- Rechniowski, Wazlaw, St. Petersburg, Russia. Capillary-tube-system micrometer. No. 1,133,400; Mar. 30; Gaz. vol. 212; p. 1415.
- Rechnitz, Otto, Cottbus, Germany. Flexible lathing. No. 1,124,170; Jan. 5; Gaz. vol. 210; p. 331.
- Rechter, George. (See Bamfield and Rechter.)
- Rechtschaffen, Louis, New York, N. Y. Waist-belt. No. 1,139,310; May 11; Gaz. vol. 214; p. 594.
- Reck, Anders B., Hellerup, Denmark. Hot-water heating apparatus. No. 1,148,857; Aug. 3; Gaz. vol. 217; p. 133.
- Reck, Louis W. (See Wills and Reck.)
- Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Water-closet tank. No. 1,134,556; Apr. 6; Gaz. vol. 213; p. 173.
- Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Shade-holder. No. 1,162,400; Nov. 30; Gaz. vol. 220; p. 1579.
- Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Nut. No. 1,166,002; Dec. 28; Gaz. vol. 221; p. 1266.
- Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Portable electric lamp. No. 1,166,003; Dec. 28; Gaz. vol. 221; p. 1266.
- Recklinghausen, Max von. (See Helbronner and Recklinghausen.)
- Recklinghausen, Max von. (See Henri, Helbronner, and Recklinghausen.)
- Recklinghausen, Max von, New York, N. Y. Sterilizing apparatus. No. 1,156,948; Oct. 19; Gaz. vol. 219; p. 620.
- Recklinghausen, Max von, assignor to The R. U. V. Company, Inc., New York, N. Y. Apparatus for sterilization of fluids by ultra-violet rays. No. 1,156,947; Oct. 19; Gaz. vol. 219; p. 620.
- Recklinghausen, Max von, assignor to The R. U. V. Company, Inc., New York, N. Y. Apparatus for sterilizing milk. No. 1,165,921; Dec. 28; Gaz. vol. 221; p. 1237.
- Recky, George. (See Belanger, John D., assignor.)
- Record, George J., Conneaut, Ohio. Removable braced shipping-can case. No. 1,154,885; Sept. 28; Gaz. vol. 218; p. 980.
- Record, George J., Conneaut, Ohio. Pouring-lip for receptacles. No. 1,165,285; Dec. 21; Gaz. vol. 221; p. 977.
- Record, John W., Broadheath, near Manchester, England. Electrical measuring instrument. No. 1,125,711; Jan. 19; Gaz. vol. 210; p. 967.
- Recording and Computing Machines Company, The. (See Mitten, Philip J., assignor.)
- Recording and Computing Machines Company, The. (See Ohmer and McAllister, assignors.)
- Recording and Computing Machine Company, The. (See Whistler and Ripisch, assignors.)
- Recording Register & Fare Box Company, The. (See Huntington, Samuel P., assignor.)
- Recording Register & Fare Box Company, The. (See Kennedy, Frank B., assignor.)
- Rector, Alcorn, assignor of one-half to M. F. Mosher, New York, N. Y. Turbine. No. 1,127,678; Feb. 9; Gaz. vol. 211; p. 393.
- Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Heating apparatus. No. 1,143,553; June 15; Gaz. vol. 215; p. 940.
- Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Method of combustion. No. 1,144,782; June 29; Gaz. vol. 215; p. 1419.
- Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Combustion apparatus. No. 1,144,783; June 29; Gaz. vol. 215; p. 1419.
- Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Jetting method of combustion. No. 1,144,784; June 29; Gaz. vol. 215; p. 1419.
- Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Combustion apparatus. No. 1,144,785; June 29; Gaz. vol. 215; p. 1420.
- Rector Engine Corporation. (See Rector, Enoch, assignor.)
- Rector, Enoch, assignor to Rector Engine Corporation, New York, N. Y. Steam-generator. No. 1,132,617; Mar. 23; Gaz. vol. 212; p. 1096.
- Rector Gas Lamp Company. (See Rector, Alcorn, assignor.)
- Rector, Isabella S., Williamsport, Ohio. Poultry-feeder. No. 1,148,405; July 27; Gaz. vol. 216; p. 1270.
- Red Chief Manufacturing Company. (See Gaisser, Louis E., assignor.)
- Redd, Benoist S., assignor to R. Hoe and Co., New York, N. Y. Automatic feed for presses and the like. No. 1,123,594; Jan. 5; Gaz. vol. 210; p. 135.
- Redd, Charlie, assignor of one-half to I. Pieser and one-half to C. G. Livingston, Chicago, Ill. Weighing and filling machine. No. 1,126,083; Jan. 26; Gaz. vol. 210; p. 1132.
- Redd, Charlie, assignor of one-half to I. Pieser and one-half to C. G. Livingston, Chicago, Ill. Carton weighing and filling machine. No. 1,140,915; May 25; Gaz. vol. 214; p. 1231.
- Redd, Charlie, assignor to I. Pieser and C. G. Livingston, Chicago, Ill. Carton-machine. No. 1,153,571; Sept. 14; Gaz. vol. 218; p. 468.
- Reddan Specialty Company. (See Kenney, Andrew E., assignor.) (Reissue.)
- Reddick, John E., Philadelphia, Pa. Polishing-mitt. No. 1,141,580; June 1; Gaz. vol. 215; p. 176.
- Redding, Jerome, Malden, assignor of one-half to E. Parker, Boston, Mass. Storage-battery element and making the same. No. 1,144,311; June 22; Gaz. vol. 215; p. 1229.
- Redding, John W., Seattle, Wash. Rock-clearing machine. No. 1,134,226; Apr. 6; Gaz. vol. 213; p. 53.
- Redding, Roy F., assignor to St. Louis Bed and Manufacturing Company, East St. Louis, Ill. Tube-bending machine. No. 1,133,401; Mar. 30; Gaz. vol. 212; p. 1416.
- Reddy, Gerrard M., Bowie, La. Track-cleaner for saw-mill-carriages. No. 1,144,916; June 29; Gaz. vol. 215; p. 1463.
- Redelmann, Ulrich G. (See Mitchell and Taggart, assignors.)
- Redfield, Casper L. (See Folger and Redfield.)
- Redfield, Charles E., Miles, Wash. Neck-yoke attachment. No. 1,165,343; Dec. 21; Gaz. vol. 221; p. 996.
- Redinger, Camden, Pierce, Pa. Pocket safety device. No. 1,138,507; May 4; Gaz. vol. 214; p. 275.
- Redington, Frank B., and M. J. Milmo, Chicago, Ill., assignors, by mesne assignments, to Package Machinery Company, Springfield, Mass. Chewing-gum-wrapping machine. No. 1,133,668; Mar. 30; Gaz. vol. 212; p. 1513.
- Redington, Frank B., and M. J. Milmo, assignors to F. B. Redington Company, Chicago, Ill. Feeding mechanism. No. 1,158,287; Oct. 26; Gaz. vol. 219; p. 1154.
- Redington, George O., et al., executors. (See Geer, Langdon.)
- Redman, John R. (See Scholfield and Redman.)
- Redman, Thomas, Green Royd, Arnsde, England. Shuttle for weaving. No. 1,130,764; Mar. 9; Gaz. vol. 212; p. 356.
- Redman, William H., et al. (See Wilkins, Harry, assignor.)
- Redman, William W., Portland, Oreg. Head-cover for poultry. No. 1,164,868; Dec. 21; Gaz. vol. 221; p. 831.
- Redmon, Dillard, Baltimore, Md. Producing material for ornamental woodwork. No. 1,154,806; Sept. 28; Gaz. vol. 218; p. 955.
- Redmon, Marlon F., Cedar Rapids, Iowa. Dish-washing machine. No. 1,153,255; Sept. 14; Gaz. vol. 218; p. 352.
- Redner, John J. (See Murphy and Redner.)

- Reducing Machine Company, The. (See Gardner, James P., assignor.)
- Redwood Manufacturing Company. (See Weigel, Joel, assignor.)
- Reece Button Hole Machine Company, The. (See Barker, George E., assignor.)
- Reece Button Hole Machine Company, The. (See Bassett, Elmer C., assignor.)
- Reece Button Hole Machine Company, The. (See Hagelstein, Christian H. T., assignor.)
- Reece Button Hole Machine Company, The. (See Kiewicz, John, assignor.)
- Reece Button Hole Machine Company, The. (See Read, Fred A., assignor.)
- Reece Button Hole Machine Company, The. (See Reece, Franklin A., assignor.)
- Reece Button Hole Machine Company, The. (See Zaleski, Frank, assignor.)
- Reece, Eli D., Fort Worth, Tex. Gage for liquid-containers. No. 1,163,260; Dec. 7; Gaz. vol. 221; p. 184.
- Reece Folding Machine Company. (See Clearwater, Harley M., assignor.)
- Reece Folding Machine Company. (See Clearwater, Temple, and Ramsey, assignors.)
- Reece, Franklin A., Manchester, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,165,713; Dec. 28; Gaz. vol. 221; p. 1166.
- Reece, Hosea E., McMechen, W. Va. Draft-regulator. No. 1,143,917; June 22; Gaz. vol. 215; p. 1088.
- Reece, John, Manchester, Mass. Variable-speed transmitter. No. 1,153,256; Sept. 14; Gaz. vol. 218; p. 352.
- Reece Shoe Machinery Company, The. (See Kiewicz, John, assignor.)
- Reece Shoe Machinery Company, The. (See Schoenky, August R., assignor.)
- Reece, William M., Ottumwa, Iowa. Acetylene-gas generator. No. 1,154,433; Sept. 21; Gaz. vol. 218; p. 799.
- Reed, Alfred L. (See Dunn, Frank P., assignor.)
- Reed, Alfred L., and T. S. Gettle, Anderson, Ind.; said Gettle assignor to said Reed. Cheese-cutter. No. 1,142,622; June 8; Gaz. vol. 215; p. 575.
- Reed, Allen T., Byers, Tex. Shoe-fitting stool. No. 1,139,227; May 11; Gaz. vol. 214; p. 567.
- Reed, Allen T., Byers, Tex. Luggage-carrier. No. 1,141,004; May 25; Gaz. vol. 214; p. 1262.
- Reed, Charles E., Bartow, Fla. Water-heater. No. 1,156,814; Oct. 12; Gaz. vol. 219; p. 542.
- Reed, Chase C., Elmore, assignor of one-half to J. N. Magee, Toledo, Ohio. Plow. No. 1,162,401; Nov. 30; Gaz. vol. 220; p. 1580.
- Reed, Clarence E. (See Lough, David C., assignor.)
- Reed, Clarence E., Houston, Tex. Revolving-cutter rotary boring-drill. No. 1,159,087; Nov. 2; Gaz. vol. 220; p. 234.
- Reed, Clarence E., Houston, Tex. Revolving-cutter rotary boring-drill. No. 1,159,088; Nov. 2; Gaz. vol. 220; p. 234.
- Reed, Colvin M. (See Walsh and Reed.)
- Reed, David, Jr. (See Heninger and Reed.)
- Reed, E. B., et al. (See Pohlman, Frank W., assignor.)
- Reed, Edward A., Ottawa, Ill. Conveyor. No. 1,158,848; Nov. 2; Gaz. vol. 220; p. 155.
- Reed, Edward B., et al. (See Whitaker, Samuel T., assignor.)
- Reed, Edwin A. (See Pierce and Reed.)
- Reed, Emerson G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer-casing. No. 1,156,708; Oct. 12; Gaz. vol. 219; p. 507.
- Reed, Fannie L., Kokomo, Ind. Garment-banger. No. 1,130,540; Mar. 2; Gaz. vol. 212; p. 246.
- Reed, Frank, et al. (See Hooker, Joseph D., assignor.)
- Reed, Frank E., assignor of forty-five one-hundredths to C. C. Roth, Lacon, Ill. Ice-sawing machine. No. 1,141,268; June 1; Gaz. vol. 215; p. 63.
- Reed, Harry L., Dorchester, Mass. Serum container and injector. No. 1,139,720; May 18; Gaz. vol. 214; p. 777.
- Reed, Irene, et al. (See Parshall, Seth, assignor.)
- Reed, John H., Lancaster, Wis. Penmanship-chart. No. 1,145,512; July 6; Gaz. vol. 216; p. 188.
- Reed, John M., Oilcenter, Cal. Automatic track-gage. No. 1,149,540; Aug. 10; Gaz. vol. 217; p. 478.
- Reed, L. W. (See Paul, William J., assignor.)
- Reed Manufacturing Company. (See Tozer, Archibald B., assignor.)
- Reed, Richard D., assignor to The H. B. Smith Company, Westfield, Mass. Boiler. No. 1,147,643; July 20; Gaz. vol. 216; p. 975.
- Reed, Thomas B., assignor to J. W. Bones, Carlton, Oreg. Adjustable bearing for jacks. No. 1,129,014; Feb. 16; Gaz. vol. 211; p. 912.
- Reed, Thomas E. (See Watkins, Owen C., assignor.)
- Reed, Tompson P., Long Beach, Cal. Railway-switch. No. 1,129,015; Feb. 16; Gaz. vol. 211; p. 912.
- Reed, Walter C., Dalton, assignor to The Teleelectric Company, Pittsfield, Mass. Electrically-operated piano-player. No. 1,152,841; Sept. 7; Gaz. vol. 218; p. 169.
- Reed, Walter C., Dalton, assignor to The Teleelectric Company, Pittsfield, Mass. Variable-resistance device. No. 1,152,842; Sept. 7; Gaz. vol. 218; p. 170.
- Reed, Walter C., Dalton, assignor to The Teleelectric Company, Pittsfield, Mass. Circuit-controller. No. 1,152,843; Sept. 7; Gaz. vol. 218; p. 171.
- Reed, Walter C., Dalton, assignor to The Teleelectric Company, Pittsfield, Mass. Pawl-and-ratchet mechanism. No. 1,165,902; Dec. 28; Gaz. vol. 221; p. 1231.
- Reed, Walter C., Dalton, assignor to The Teleelectric Company, Pittsfield, Mass. Playing apparatus for musical instruments. No. 1,165,903; Dec. 28; Gaz. vol. 221; p. 1232.
- Reed, Walter C., Dalton, assignor to The Teleelectric Company, Pittsfield, Mass. Electromagnet. No. 1,165,904; Dec. 28; Gaz. vol. 221; p. 1232.
- Reed, William, Chillicothe, Mo. Automatic train-stop. No. 1,156,929; Oct. 19; Gaz. vol. 219; p. 614.
- Reed, William A., Chelsea, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pad-holder. No. 1,143,725; June 22; Gaz. vol. 215; p. 1023.
- Reed, William A., Revere, and J. Foley, Chelsea, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Bufling-machine. No. 1,157,725; Oct. 26; Gaz. vol. 219; p. 958.
- Reed, William N., Hackensack, N. J. Combined vase and lamp stand. No. 1,164,211; Dec. 14; Gaz. vol. 221; p. 560.
- Reeder, Edwin C. (See Kemp and Reeder.)
- Reeder, Edwin C., Chicago, Ill., and F. A. Kemp, assignors to Lidgerwood Manufacturing Company, New York, N. Y. Mechanical clutch. No. 1,125,595; Jan. 19; Gaz. vol. 210; p. 923.
- Reeder, James A., Memphis, Tenn. Folding coop. No. 1,136,269; Apr. 20; Gaz. vol. 213; p. 856.
- Reedy, Alfred J., assignor to A-B Stove Company, Battle Creek, Mich. Gas-burner. No. 1,149,686; Aug. 10; Gaz. vol. 217; p. 533.
- Reedy, Alfred J., assignor to A-B Stove Company, Battle Creek, Mich. Automatically-adjustable mixer for gas-burner valves. No. 1,153,643; Sept. 14; Gaz. vol. 218; p. 491.
- Reedy, John H. (See Shaffer and Reedy.)
- Reedy, Michael, Memphis, Tenn. Spike. No. 1,127,090; Feb. 2; Gaz. vol. 211; p. 151.
- Reefe, Dantes R., Miami, Fla. Animal-trap. No. 1,151,041; Aug. 24; Gaz. vol. 217; p. 1127.
- Reehl, Dempsey L., New Brighton, Pa. Bridge-locking mechanism. No. 1,145,166; July 6; Gaz. vol. 216; p. 67.
- Reely-Trooly Co. (See Switzer, Clifford T., assignor.)
- Reenstierna, Gustaf L., Congers, assignor to C. A. Collins, New York, N. Y. Tooth-cleaning device. No. 1,128,045; Feb. 9; Gaz. vol. 211; p. 525.
- Reenstierna, Ivar, Boston, Mass. Card-holder for cigar-boxes. No. 1,135,323; Apr. 13; Gaz. vol. 213; p. 483.
- Reents, Wilhelm. (See Hübner, Gustav, assignor.)
- Rees, Edmund S. G., Wolverhampton, England. Rotary pump, condenser, or compressor. No. 1,144,865; June 29; Gaz. vol. 215; p. 1447.
- Rees, Edmund S. G., Stafford, England. Rotary condenser and self-condensing turbine. No. 1,154,434; Sept. 21; Gaz. vol. 218; p. 799.
- Rees, Edmund S. G., Stafford, England. Centrifugal pump, turbine, condenser, and the like. No. 1,166,257; Dec. 28; Gaz. vol. 221; p. 1361.
- Rees, Edward W., Merthyr Tydfil, Wales. Plane. No. 1,161,076; Nov. 23; Gaz. vol. 220; p. 1070.
- Rees, Frank B., Quincy, Ill. Tar-spreader. No. 1,147,546; July 20; Gaz. vol. 216; p. 940.
- Rees, Gladys. (See Rees, Janet and G.)
- Rees, Janet and G., Des Moines, Iowa. Attachment for hair-dressers' chairs. No. 1,149,541; Aug. 10; Gaz. vol. 217; p. 478.
- Rees, Leon, London, England. Stuffed doll, puppet, toy figure, and the like. No. 1,139,997; May 18; Gaz. vol. 214; p. 875.
- Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Aseptic water-closet. No. 1,154,727; Sept. 28; Gaz. vol. 218; p. 928.
- Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Water-closet seat. No. 1,165,123; Dec. 21; Gaz. vol. 221; p. 922.
- Rees, William D., Columbus, Ohio. Drawing instrument. No. 1,148,122; July 27; Gaz. vol. 216; p. 1172.
- Rees, William H., New York, N. Y. Tab for perforated music-sheets. No. 1,131,005; Mar. 9; Gaz. vol. 212; p. 439.
- Reese, Edwin M., Texarkana, Ark. Adjusting mechanism for road-graders. No. 1,151,822; Aug. 31; Gaz. vol. 217; p. 1441.
- Reese, Frederick W., Paris, Ill. Broom-machine. No. 1,130,765; Mar. 9; Gaz. vol. 212; p. 356.
- Reese, Isaac, Memphis, Tenn. Air and water motor. No. 1,148,989; Aug. 3; Gaz. vol. 217; p. 178.
- Reese, James H., assignor of one-half to W. M. Huffman, South Charleston, Ohio. Mail-crane. No. 1,146,279; July 13; Gaz. vol. 216; p. 476.
- Reese, John T., Shipman, Va. Churn. No. 1,142,459; June 8; Gaz. vol. 215; p. 521.
- Reese, Louis C., assignor to Werner & Pfleiderer Co., Saginaw, Mich. Baking-oven. No. 1,151,042; Aug. 24; Gaz. vol. 217; p. 1127.
- Reeser, Will E. (See Herbold, Friedrich W., assignor.)

Alphabetical list of patentees—Continued.

- Reeser, Wilmer J., Butler, assignor of one-half to A. Marckel, Perham, Minn. Seed-planting device. No. 1,124,523; Jan. 12; Gaz. vol. 210; p. 505.
- Reeve, Sidney A., New York, N. Y. Hot-water turbine. No. 1,123,798; Jan. 5; Gaz. vol. 210; p. 205.
- Reeve, Sidney A., New York, N. Y., assignor to Rotary Meter Company. Fluid-meter. No. 1,125,712; Jan. 19; Gaz. vol. 210; p. 967.
- Reeve, Sidney A., Tompkinsville, N. Y., assignor to E. H. Gold, Chicago, Ill. Steam-heating system. No. 1,165,446; Dec. 28; Gaz. vol. 221; p. 1073.
- Reeves, Clifton, Trenton, N. J. Valve-gear. No. 1,124,524; Jan. 12; Gaz. vol. 210; p. 506.
- Reeves, Elijah W., Corpus Christi, Tex. Machine-brake. No. 1,164,116; Dec. 14; Gaz. vol. 221; p. 529.
- Reeves, Frank N., Newark, N. J., and A. E. Lundell, assignors to Western Electric Company, New York, N. Y. Switch-controller system. No. 1,165,447; Dec. 28; Gaz. vol. 221; p. 1073.
- Reeves, George C., Chicago, Ill. Force-cup. No. 1,154,055; Sept. 21; Gaz. vol. 218; p. 670.
- Reeves, Irv. L., South Natick, Mass. Gun-cleaner and protective device. No. 1,164,665; Dec. 21; Gaz. vol. 221; p. 761.
- Reeves, James W., assignor to S. S. Barash, Seattle, Wash. Ink-distributing roller for printing-presses. No. 1,156,175; Oct. 12; Gaz. vol. 219; p. 321.
- Reeves, Lewis L., Belle Vernon, Pa. Rotary engine. No. 1,152,045; Aug. 31; Gaz. vol. 217; p. 1517.
- Reeves, Milton O., assignor to Reeves Pulley Co., Columbus, Ind. Friction-demonstrator. No. 1,146,448; July 13; Gaz. vol. 216; p. 538.
- Reeves Pulley Co. (See Reeves, Milton O., assignor.)
- Reeves, Samuel V., Haddonfield, N. J. Automatic dust-damper for stoves. No. 1,156,930; Oct. 19; Gaz. vol. 219; p. 614.
- Reeves, Samuel V., Haddonfield, N. J. Hot-water stove. No. 1,161,729; Nov. 23; Gaz. vol. 220; p. 1299.
- Regan, H. W., *et al.* (See Wheeler, Richard, assignor.)
- Regan Oil Tool Company. (See Wigle, Wilson B., assignor.)
- Regan, Philip C., *et al.* (See Bradshaw, Ira J., assignor.)
- Regan, Philip C., assignor of one-fourth to J. S. Whyte, one-fourth to I. J. Bradshaw, and one-fourth to D. Adams, Waukegan, Ill. Rail-anchor. No. 1,124,171; Jan. 5; Gaz. vol. 210; p. 331.
- Regan, Thomas L., Camden, N. Y. Self-locking swinging stanchion. No. 1,148,191; July 27; Gaz. vol. 216; p. 1195.
- Regan, William J. (See McConway and Regan.)
- Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,048; July 27; Gaz. vol. 216; p. 1143.
- Regan, William J., assignor to McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,148,049; July 27; Gaz. vol. 216; p. 1143.
- Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-vehicles. No. 1,155,097; Sept. 28; Gaz. vol. 218; p. 1056.
- Regar Brass Manufacturing Company, The. (See Regar, Joseph, assignor.)
- Regar, Joseph, assignor to The Regar Brass Manufacturing Company, Cleveland, Ohio. Faucet attachment. No. 1,163,457; Dec. 7; Gaz. vol. 221; p. 253.
- Regenbogen, Conrad, Kiel, Germany, assignor to Fried. Krupp Aktiengesellschaft Germania-werft. Fuel-injector. No. 1,142,623; June 8; Gaz. vol. 215; p. 576.
- Regenbogen, Conrad, Kiel, assignor to Fried. Krupp Aktiengesellschaft, Germania-werft, Kiel-Gaarden, Germany. Internal-combustion engine. No. 1,152,658; Sept. 7; Gaz. vol. 218; p. 102.
- Regenbogen, Conrad, and P. A. Ritter, Kiel, Germany. Cylinder for internal-combustion engines. No. 1,156,312; Oct. 12; Gaz. vol. 219; p. 366.
- Regenbogen, Conrad, Kiel-Gaarden, and H. Vogel, Kiel, assignors to Fried. Krupp Aktiengesellschaft Germania-werft, Kiel-Gaarden, Germany. Submarine boat. No. 1,164,394; Dec. 14; Gaz. vol. 221; p. 626.
- Regenstein, Theodore, Chicago, Ill. Pattern-exhibitor. No. 1,129,811; Feb. 23; Gaz. vol. 211; p. 1222.
- Register, George M. (See O'Leary, Thomas, assignor.)
- Rego, Henry J., San Jose, Cal. Folding double car-step. No. 1,138,975; May 11; Gaz. vol. 214; p. 478.
- Reh, Martin J. (See Schaaf, Joseph H., assignor.)
- Rehberg, August, Jr. (See Matthies and Rehberg, Jr.)
- Reher, Herman. (See Mehlfelder, Anton, assignor.)
- Rehfsuss, John G. (See Rehfsuss, Martin O. and J. G.)
- Rehfsuss, Martin O. and J. G., assignors to The Curtis Publishing Company, Philadelphia, Pa. Wrapping-machine. No. 1,164,548; Dec. 14; Gaz. vol. 221; p. 679.
- Rehfsuss, William, La Crosse, Wis. Door-lock. No. 1,161,972; Nov. 30; Gaz. vol. 220; p. 1431.
- Rehm, Frederick C., Detroit, Mich. Buckle. No. 1,142,842; June 15; Gaz. vol. 215; p. 690.
- Réhm, Hugo, Düsseldorf, Germany. Revolving grate for gas-producers. No. 1,133,577; Mar. 30; Gaz. vol. 212; p. 1479.
- Reiber, Frank A., Greenville, Ohio. Incubator. No. 1,127,679; Feb. 9; Gaz. vol. 211; p. 393.
- Reibstein, August, New York, N. Y. Puzzle. No. 1,151,615; Aug. 31; Gaz. vol. 217; p. 1369.
- Reich, David, New York, N. Y. Combination parasol-handle. No. 1,129,730; Feb. 23; Gaz. vol. 211; p. 1194.
- Reich, Gustav H. A., Gainesville, Ga. Self-closing hinge. No. 1,152,046; Aug. 31; Gaz. vol. 217; p. 1517.
- Reich, Paul. (See Boch, Philipp, assignor.)
- Reichard, Benjamin. (See Amsel and Reichard.)
- Reichard, Francis H., Bangor, Pa. Weeder and hoe. No. 1,136,438; Apr. 20; Gaz. vol. 213; p. 917.
- Reichard, Fritz, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Ammunition-hoist. No. 1,138,149; May 4; Gaz. vol. 214; p. 151.
- Reichard, Mary A. (See Reichard, Wilbur M., assignor.)
- Reichard, Wade H., Troy, assignor to Federal Signal Company, Albany, N. Y. Railway switching and indicating circuits. No. 1,133,819; Mar. 30; Gaz. vol. 212; p. 1567.
- Reichard, Wilbur M., assignor of one-half to M. A. Reichard, New York, N. Y. Window-sash lock. No. 1,155,617; Oct. 5; Gaz. vol. 219; p. 101.
- Reiche, Hermann, Millstone, N. J. Flying-machine. No. 1,137,533; Apr. 27; Gaz. vol. 213; p. 1345.
- Reiche, Hermann, Millstone, N. J. Lathe-producing device. No. 1,139,228; May 11; Gaz. vol. 214; p. 567.
- Reiche, Hermann, Bellemead, N. J. Internal-combustion engine. No. 1,142,367; June 8; Gaz. vol. 215; p. 486.
- Reiche, Max O., Milwaukee, Wis. Apparatus for determining the percentage of lime in materials. No. 1,156,176; Oct. 12; Gaz. vol. 219; p. 322.
- Reichel, Walter, and G. K. Hennig, assignors to Ludwig Hupfeld Aktiengesellschaft, Böhlitz-Ehrenberg, near Leipzig, Germany. Note-sheet-changing device for pneumatic musical instruments. No. 1,158,288; Oct. 26; Gaz. vol. 219; p. 1154.
- Reichelt, Bruno. (See Reising, Adam A., assignor.)
- Reichelt, Bruno, Newark, N. J. Converting meadow or swamp land into fertilizer. No. 1,134,760; Apr. 6; Gaz. vol. 213; p. 248.
- Reichenbach, Henry, New York, N. Y. Exhibiting and advertising apparatus. No. 1,133,504; Mar. 30; Gaz. vol. 212; p. 1452.
- Reichenbach, Henry M., Rochester, N. Y. Carbureting device. No. 1,147,644; July 20; Gaz. vol. 216; p. 975.
- Reichenthal, Sigmund, Jr., New York, N. Y. Protective device for railway-crossings. No. 1,144,248; June 22; Gaz. vol. 215; p. 1208.
- Reichert, John, Racine, Wis. Breast-strap and yoke connector. No. 1,125,397; Jan. 19; Gaz. vol. 210; p. 855.
- Reichert, John, Racine, Wis. Display-rack. No. 1,137,900; May 4; Gaz. vol. 214; p. 61.
- Reichert, John, Racine, Wis. Breeching-loop. No. 1,166,258; Dec. 28; Gaz. vol. 221; p. 1362.
- Reichmann, Friedrich, Barmen, Germany. Device for opening straw and other vegetable matter for spinning purposes. No. 1,162,191; Nov. 30; Gaz. vol. 220; p. 1509.
- Reichmann, Fritz, Albany, N. Y. Spring-balance scale. No. 1,138,687; May 11; Gaz. vol. 214; p. 376.
- Reichner, Louis I., Atlantic City, N. J. Awning-rope attachment. No. 1,162,513; Nov. 30; Gaz. vol. 220; p. 1620.
- Reichold, Ludwig, Pittsfield, Mass., assignor to General Electric Company. Flat-iron support. No. 1,157,961; Oct. 26; Gaz. vol. 219; p. 1040.
- Reid, Alexander C., assignor to Cracraft, Leich Electric Company, Genoa, Ill. Self-restoring annunciator. No. 1,138,688; May 11; Gaz. vol. 214; p. 376.
- Reid, Alexander W., Stratford, New Zealand. Milking-machine pulsator. No. 1,150,452; Aug. 17; Gaz. vol. 217; p. 865.
- Reid, Albert H., Denver, Colo. Advertising device. No. 1,158,849; Nov. 2; Gaz. vol. 220; p. 155.
- Reid, Alfred J. H., Henderson, Tenn. Canopy for beds or cots. No. 1,134,009; Mar. 30; Gaz. vol. 212; p. 1627.
- Reid, Alfred J. H., Henderson, Tenn. Seed-planter. No. 1,137,901; May 4; Gaz. vol. 214; p. 62.
- Reid, Andrew. (See McManamy and Reid.)
- Reid, Andrew H., Toronto, Ontario, Canada. Incinerator. No. 1,126,866; Feb. 2; Gaz. vol. 211; p. 71.
- Reid, Andrew S. (See Reid, Robert and A. S.)
- Reid, Edwin G., Osage City, assignor of one-half to C. S. Wolfe, Topeka, Kans. Die-stock and tap-wrench. No. 1,148,406; July 27; Gaz. vol. 216; p. 1270.
- Reid, Fraser D., Cobalt, Ontario, Canada. Ore-concentrator. No. 1,134,349; Apr. 6; Gaz. vol. 213; p. 97.
- Reid, George C., Labonte, Wyo. Ratchet-wrench. No. 1,154,056; Sept. 21; Gaz. vol. 218; p. 670.
- Reid, Harry, assignor of one-half to I. D. White, Clinton, Ind. Animal-whipping device. No. 1,128,512; Feb. 16; Gaz. vol. 211; p. 736.
- Reid, Israel, Washington, D. C. Removable button. No. 1,146,652; July 13; Gaz. vol. 216; p. 607.
- Reid, James, Watervliet, N. Y., assignor to Federal Signal Company. Detector-bar. No. 1,157,726; Oct. 26; Gaz. vol. 219; p. 958.
- Reid, James A., Wentzville, Mo. Wheel-rim. No. 1,159,797; Nov. 9; Gaz. vol. 220; p. 521.
- Reid, John W., *et al.*, executors. (See Macdonald, Hugh.)
- Reid, Joseph E. (See Drambourg and Reid.)
- Reid, Pettis A. and W. V., and J. Kelley, Richmond, Ind.; said W. V. Reid and J. Kelley assignors to said Pettis A. Reid. Wire-fence machine. No. 1,160,089; Nov. 9; Gaz. vol. 220; p. 622.

Alphabetical list of patentees—Continued.

- Reid, Robert and A. S. Beverly, assignors, by mesne assignments, to A. H. Parker, Bedford, and W. H. Emerson, Newton, Mass. Can-sealing machine. No. 1,136,400; Apr. 20; Gaz. vol. 213; p. 904.
- Reid, Thomas, Northfield, Birmingham, England. Two-stroke-cycle combustion-engine. No. 1,152,659; Sept. 7; Gaz. vol. 218; p. 103.
- Reid, Walter V. (See Reid and Kelley.)
- Reid, William O., Strawn, Tex. Gasolene-cut-off lock for automobiles. No. 1,159,089; Nov. 2; Gaz. vol. 220; p. 235.
- Reidt, Ulrich, Los Angeles, Cal. Permutation-padlock. No. 1,141,827; June 1; Gaz. vol. 215; p. 259.
- Reidy, Michael D. (See Blake and Reidy.)
- Reifsnnyder, Albert S., Reading, Pa. Carrying device. No. 1,141,005; May 25; Gaz. vol. 214; p. 1262.
- Reifsnnyder, James D. (See Smith and Reifsnnyder.)
- Reifsnnyder, James D. (See Stokes and Reifsnnyder.)
- Reifsnnyder, James D., and G. H. Fath, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Machine for forming sealed wrapped packages. No. 1,131,792; Mar. 16; Gaz. vol. 212; p. 748.
- Reifsnnyder, James D., and H. G. Schwerdtle, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Machine for forming long-flap wrapped packages. No. 1,152,356; Aug. 31; Gaz. vol. 217; p. 1624.
- Reifsnnyder, James D., and H. G. Schwerdtle, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Machine for forming sealed wrapped packages. No. 1,152,357; Aug. 31; Gaz. vol. 217; p. 1625.
- Reifsnnyder, James D., and H. G. Schwerdtle, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Printing-press. No. 1,164,212; Dec. 14; Gaz. vol. 221; p. 560.
- Reifsnnyder, James D., and W. A. Saatman, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Single-sheet separating and feeding mechanism. No. 1,152,358; Aug. 31; Gaz. vol. 217; p. 1626.
- Reifsnnyder, James D., Philadelphia, Pa., and H. B. Smith, Brooklyn, N. Y., assignors to Stokes & Smith Company, Summerdale, Pa. Gluing-machine. No. 1,166,004; Dec. 28; Gaz. vol. 221; p. 1267.
- Reigh, Martin S., Pittsburgh, Pa. No-slip horseshoe. No. 1,165,286; Dec. 21; Gaz. vol. 221; p. 977.
- Reigle, Frank E. (See Davis and Reigle.)
- Reilly, Charles J., et al. (See Steckle, Edward J., assignor.)
- Reilly, Charles J., Catskill, N. Y. Furnace for water-heaters. No. 1,159,090; Nov. 2; Gaz. vol. 220; p. 235.
- Reilly, Edward J. (See De Barbadoillo, Frank, assignor.)
- Reilly, George, Fresno, Cal. Track-line buck. No. 1,128,257; Feb. 9; Gaz. vol. 211; p. 598.
- Reilly, James R. (See Fuller and Reilly.)
- Reilly, John J. (See Wilson and Reilly.)
- Reimer, Jorgen A., assignor of one-fourth to J. Petersen, Elk Horn, Iowa. Disk-harrow boxing. No. 1,160,757; Nov. 16; Gaz. vol. 220; p. 913.
- Reilly, Matthew J., West New Brighton, N. Y. Nut-lock. No. 1,131,085; Mar. 9; Gaz. vol. 212; p. 466.
- Reilly, Patrick F. (See Giese and Reilly.)
- Reilly, Peter, Worcester, Mass., assignor to J. P. Schmitt, New York, N. Y. Spindle-tester. No. 1,129,903; Mar. 2; Gaz. vol. 212; p. 24.
- Reilly, Peter, Passaic, assignor to J. P. Schmitt, Hoboken, N. J. Loom attachment. No. 1,142,624; June 8; Gaz. vol. 215; p. 577.
- Reilly, Thomas, New York, N. Y. Clothes-line. No. 1,151,043; Aug. 24; Gaz. vol. 217; p. 1128.
- Reilly, Thomas A. (See Fuller and Reilly.)
- Reimann, Paul F., Chicago, Ill. Machine for mixing mortar and the like. No. 1,165,905; Dec. 28; Gaz. vol. 221; p. 1233.
- Reimers, Wilhelm, Kiel, Germany. Expandable pulley. No. 1,144,381; June 29; Gaz. vol. 215; p. 1282.
- Reindel, Frederick W., East Cleveland, Ohio. Embossing apparatus. No. 1,134,227; Apr. 6; Gaz. vol. 213; p. 53.
- Reindel, Hans, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dyes. No. 1,126,656; Jan. 26; Gaz. vol. 210; p. 1339.
- Reinecker, Richard, Chemnitz, Germany. Method of and apparatus for cutting the teeth of gear-wheels. No. 1,140,610; May 25; Gaz. vol. 214; p. 1125.
- Reinecker, Richard, Chemnitz-Gablenz, and M. Schönleber, Chemnitz, Germany. Grinding gear-wheels. No. 1,145,513; July 6; Gaz. vol. 216; p. 188.
- Reinecker, Richard, Chemnitz-Gablenz, and M. Schönleber, Chemnitz, Germany. Gear-grinding machine. No. 1,150,535; Aug. 17; Gaz. vol. 217; p. 894.
- Reineke, Josef H., Weitmar, near Bochum, Germany. Device for igniting fuses. No. 1,133,183; Mar. 23; Gaz. vol. 212; p. 1303.
- Reiners, John. (See Liefz and Reiners.)
- Reinforced Inner Tube Company. (See Poole, John H., assignor.)
- Reinhardt, Louis, assignor to The Mechanical Appliance Company, Milwaukee, Wis. Switch. No. 1,153,257; Sept. 14; Gaz. vol. 218; p. 353.
- Reinhardt, George W., Brockton, Mass. Container. No. 1,148,858; Aug. 3; Gaz. vol. 217; p. 133.
- Reinhardt, Heinrich. (See Müllner, Anton, assignor.)
- Reinhardt, James H., East Orange, N. J., assignor to American Bank Note Company, Numbering-head. No. 1,157,647; Oct. 19; Gaz. vol. 219; p. 863.
- Reinhardt, Louis H., Berger, Mo. Anti-rail-spreading device. No. 1,137,083; Apr. 27; Gaz. vol. 213; p. 1183.
- Reinhart, Arthur L., Portland, Ore. Child's piano-pedal attachment. No. 1,162,880; Dec. 7; Gaz. vol. 221; p. 51.
- Reinhart, Charles S., Cincinnati, Ohio. Speed-change mechanism. No. 1,159,709; Nov. 9; Gaz. vol. 220; p. 487.
- Reinhart, John, Early, Iowa. Fly-trap. No. 1,159,273; Nov. 2; Gaz. vol. 220; p. 300.
- Reinhaus, Julius. (See Oppenheim, Simon R., assignor.)
- Reininger, August. (See Davis and Reininger.)
- Reininger, Henry, New Orleans, La. Barrel feeding and arresting device. No. 1,158,289; Oct. 26; Gaz. vol. 219; p. 1155.
- Reininger, Richard, assignor to Newark Rivet Works, Newark, N. J. Umbrella-rod. No. 1,136,167; Apr. 20; Gaz. vol. 213; p. 820.
- Reinke, Eugene A., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Mounting for relays or the like. No. 1,151,497; Aug. 24; Gaz. vol. 217; p. 1281.
- Reinke, Eugene A., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Catch. No. 1,160,758; Nov. 16; Gaz. vol. 220; p. 914.
- Reinker, Christian, Lakewood, Ohio. Automobile-head-light. No. 1,152,219; Aug. 31; Gaz. vol. 217; p. 1577.
- Reis, Julius M., New York, N. Y. Embroidery foundation. No. 1,124,803; Jan. 12; Gaz. vol. 210; p. 607.
- Reis, Theodor, Cincinnati, Ohio. Riveting device. No. 1,152,971; Sept. 7; Gaz. vol. 218; p. 218.
- Reisbach, Gustav B., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Rheostat. No. 1,137,352; Apr. 27; Gaz. vol. 213; p. 1283.
- Reisbach, Gustav B., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Mechanical movement. No. 1,126,084; Jan. 26; Gaz. vol. 210; p. 1133.
- Reiselt, Carl, Oblong, Ill. Engine-rack. No. 1,164,395; Dec. 14; Gaz. vol. 221; p. 626.
- Reiser, John G., and J. W. Hubbell, Toledo, Ohio. Agglutinator. No. 1,150,536; Aug. 17; Gaz. vol. 217; p. 895.
- Reisert Automatic Water Purifying Company. (See Reisert, Hans, assignor.)
- Reisert, Hans, Cologne, Germany. Filter. No. 1,142,270; June 8; Gaz. vol. 215; p. 453.
- Reisert, Hans, Cologne, Germany, assignor to Reisert Automatic Water Purifying Company. Pressure-filter. No. 1,165,124; Dec. 21; Gaz. vol. 221; p. 922.
- Reisert, Wendelin, Norwood, assignor to H. Scherpenberg, St. Bernard, Ohio. Ironing-board. No. 1,145,847; July 6; Gaz. vol. 216; p. 305.
- Reising, Adam A., assignor of one-half to B. Reichelt, Newark, N. J. Sprocket-wheel for motion-picture projectors. No. 1,163,557; Dec. 7; Gaz. vol. 221; p. 287.
- Reiss, August, Medford Station, N. Y. Ice-creeper. No. 1,153,954; Sept. 21; Gaz. vol. 218; p. 634.
- Reiss, Paul, assignor to B. Knecht, Berlin, Germany. Calculating-machine. No. 1,156,313; Oct. 12; Gaz. vol. 219; p. 366.
- Reissmann, Frederick, West Point, N. Y. Composition of matter containing artificial dye and making same. No. 1,134,486; Apr. 6; Gaz. vol. 213; p. 147.
- Reist, Kirby S., San Francisco, Cal., assignor to International Typesetting Machine Company, New York, N. Y. Matrix-delivery mechanism for line-composing machines. No. 1,146,653; July 13; Gaz. vol. 216; p. 608.
- Reist, Kirby S., and S. B. Batsford, Berkeley, Cal., assignors to Mergenthaler Linotype Company. Type-casting machine. No. 1,135,394; Apr. 13; Gaz. vol. 213; p. 507.
- Reiste, Oliver C., Mount Pleasant, Iowa. Spring-wheel. No. 1,143,435; June 15; Gaz. vol. 215; p. 902.
- Reisz, Eugen, Berlin-Treptow, Germany. Discharge-tube. No. 1,142,625; June 8; Gaz. vol. 215; p. 577.
- Reiter, Joseph. (See Smith, Adam M., assignor.)
- Reiter, Lues, and H. Fulford, Providence, R. I. Separable fastener. No. 1,150,623; Aug. 17; Gaz. vol. 217; p. 925.
- Reiter, Rudolf, and R. Lorenz, Leipzig, Germany. Device for securing doubly-bent hooks. No. 1,130,105; Mar. 2; Gaz. vol. 212; p. 91.
- Rejsek, Rudolph, assignor to American Machine & Foundry Company, New York, N. Y. Spout for inserting packages in receptacles. No. 1,132,032; Mar. 16; Gaz. vol. 212; p. 834.
- Rejto, Karl. (See Pecz and Rejto.)
- Relay Automatic Telephone Company, The. (See Aitken, William, assignor.)
- Reliable Safe & Lock Company, The. (See Dodson and Aebi, assignors.)
- Reliance A. C. Company. (See Webster, Ira J., assignor.)
- Reliance Ball Bearing Door Hanger Company. (See Cossey, Myron, assignor.)
- Reliance Ball Bearing Door Hanger Company. (See Franklin, Hubert F., assignor.)
- Reliance Electric & Engineering Company, The. (See Collins, Clarence L., 2nd, assignor.)
- Reliance Electric Heating Company. (See Mann, Nelson E., assignor.)

Alphabetical list of patentees—Continued.

- Reliance Manufacturing Company. (See Padelford, Ernest W., assignor.)
- Relitz, Albert, Retah, Mont. Hose-coupling. No. 1,143,136; June 15; Gaz. vol. 215; p. 794.
- Relay, George E., Guilford, Conn. Raising and lowering mechanism. No. 1,125,713; Jan. 19; Gaz. vol. 210; p. 968.
- Reller, Edwin L. (See Meier, Swift, and Reller.)
- Reller, Edwin L. (See Swift and Reller.)
- Reller, Joseph E., Indianapolis, Ind. Floor brusher and oiler. No. 1,135,616; Apr. 13; Gaz. vol. 213; p. 587.
- Relyea, Ralph E., Detroit, Mich. Vehicle-brake. No. 1,143,996; June 22; Gaz. vol. 215; p. 1117.
- Relyea, Ralph E., Detroit, Mich. Tire-valve. No. 1,151,044; Aug. 24; Gaz. vol. 217; p. 1128.
- Remané, Carl G. H., Berlin, Germany, assignor to General Electric Company, Schenectady, N. Y. Device for incandescent lamps with metal filaments. No. 1,145,213; July 6; Gaz. vol. 216; p. 82.
- Remané, Hermann C. G., Berlin, Germany, assignor to General Electric Company. Drawing refractory materials for incandescent lamps. No. 1,156,492; Oct. 12; Gaz. vol. 219; p. 432.
- Rembitt, Arthur G., Philadelphia, Pa. Signal. No. 1,126,272; Jan. 26; Gaz. vol. 210; p. 1200.
- Remington, Alfred A., Birmingham, England. Means of spring-supporting vehicle-frames from their axles. No. 1,149,084; Aug. 3; Gaz. vol. 217; p. 211.
- Remington, Alfred A., assignor to Wolseley Motors, Limited, Birmingham, England. Means for supporting bodies of vehicles from their axles. No. 1,147,547; July 20; Gaz. vol. 216; p. 940.
- Remington Arms & Ammunition Company. (See Barnes, Charles H., assignor.)
- Remington Arms & Ammunition Company. (See Barnes, Simpson, Steere, and Lawrence, assignors.)
- Remington Arms-Union Metallic Cartridge Company. (See Hebard, Arthur F., assignor.)
- Remington, Eliphalet. (See Ledyard, Wolters, assignor.)
- Remington, Joseph P., Philadelphia, Pa. Packaging-machine. No. 1,130,630; Mar. 2; Gaz. vol. 212; p. 276.
- Remington, Joseph P., assignor of one-half to Day & Zimmerman, Philadelphia, Pa. Nut-lock. No. 1,161,008; Nov. 16; Gaz. vol. 220; p. 1001.
- Remington Typewriter Company. (See Barney, Edwin E., assignor.)
- Remington Typewriter Company. (See Barr, John H., assignor.)
- Remington Typewriter Company. (See Brand, George B., assignor.)
- Remington Typewriter Company. (See Briggs, Arthur J., assignor.)
- Remington Typewriter Company. (See Carhart, Herbert A., assignor.)
- Remington Typewriter Company. (See Carpenter, Daniel A., assignor.)
- Remington Typewriter Company. (See Clabby and Fallon, assignors.)
- Remington Typewriter Company. (See Farnham, Smith, and Phelps, assignors.)
- Remington Typewriter Company. (See Polhuis, Leendert P., assignor.)
- Remington Typewriter Company. (See Seib, George A., assignor.)
- Remington Typewriter Company. (See Sheldon, William G., assignor.)
- Remington Typewriter Company. (See Smith, Arthur W., assignor.)
- Remington Typewriter Company. (See Smith, Charles E., assignor.)
- Remington Typewriter Company. (See Waldheim, John, assignor.)
- Remington Typewriter Company. (See Woodward, Oscar, assignor.)
- Remington Typewriter Company. (See Yaw, Chio B., assignor.)
- Remjas, John, Little Falls, N. Y. Elevator safety device. No. 1,124,804; Jan. 12; Gaz. vol. 210; p. 607.
- Remnsnider, George, assignor to Ideal Stencil Machine Company, Belleville, Ill. Stencil-cutting machine. No. 1,131,956; Mar. 16; Gaz. vol. 212; p. 806.
- Remnsnider, George, assignor to Ideal Stencil Machine Company, Belleville, Ill. Marking-pot. No. 1,150,063; Aug. 17; Gaz. vol. 217; p. 728.
- Remnsnider, George, assignor to Ideal Stencil Machine Company, Belleville, Ill. Stencil-cutting machine. No. 1,164,750; Dec. 21; Gaz. vol. 221; p. 790.
- Remsen, Herbert D. (See Ward, Remsen, and Boerner.)
- Remy, Benjamin P. (See Remy and Berger.)
- Remy, Benjamin P. and F. I., Anderson, Ind. Milking-machine. No. 1,140,066; May 18; Gaz. vol. 214; p. 900.
- Remy, Benjamin P. and F. I., Anderson, Ind. Milking-machine. No. 1,142,626; June 8; Gaz. vol. 215; p. 577.
- Remy Brothers Company. (See Remy and Berger, assignors.)
- Remy, Frank I. (See Remy, Benjamin P. and F. I.)
- Remy, Frank I. and B. P., and A. Berger, assignors to Remy Brothers Company, Anderson, Ind. Steerable traction drive mechanism. No. 1,124,951; Jan. 12; Gaz. vol. 210; p. 659.
- Remy, Frank I. and B. P., and A. Berger, assignors to Remy Brothers Company, Anderson, Ind. Driving and steering device for motor-vehicles. No. 1,128,818; Feb. 16; Gaz. vol. 211; p. 842.
- Remy, Frank I. and B. P., and A. Berger, assignors to Remy Brothers Company, Anderson, Ind. Traction-wheel cleat. No. 1,140,067; May 18; Gaz. vol. 214; p. 901.
- Remy, Wilhelm. (See Roitzheim and Remy.)
- Renard, Albert. (See Renard, Charles and A.)
- Renard, Charles and A., Nonancourt, France. File-thread-distributing blade for looms. No. 1,163,109; Dec. 7; Gaz. vol. 221; p. 130.
- Renard, Charles and A., Nonancourt, France. Power-loom for weaving oriental and other knot-stitch carpets. No. 1,164,117; Dec. 14; Gaz. vol. 221; p. 529.
- Renard, George S. (See Testelin and Renard.)
- Renard, Felix D., Chicago, Ill. Flashing for parapet-walls. No. 1,154,435; Sept. 21; Gaz. vol. 218; p. 800.
- Renault, Louis. (See Fuchs, Ernest, assignor.)
- Renault, Louis. (See Leisse, Pierre L., assignor.)
- Renault, Louis, Billancourt, France. Electric starting device for internal-combustion engines. No. 1,162,309; Nov. 30; Gaz. vol. 220; p. 1550.
- Renault, Louis F., and C. J. Drago, New York, N. Y. Clothes-line support. No. 1,165,125; Dec. 21; Gaz. vol. 221; p. 923.
- Rendahl, Ragnar H. (See Arco and Rendahl.)
- Rendelman, Isidor. (See Levitt and Rendelman.)
- René Wheel Company. (See Ayotte, Joseph R., assignor.)
- Renfrew, John. (See Pearson and Renfrew.)
- Renfrew Machinery Company, Limited. (See Vickers, Frank D., assignor.)
- Renfro, Ernest F., Scammon, Kans. Music-leaf turner. No. 1,146,815; July 20; Gaz. vol. 216; p. 684.
- Reniff, James R., Chicago, Ill. Drainage-valve. No. 1,127,282; Feb. 2; Gaz. vol. 211; p. 217.
- Renisch, Emil, Chicago, Ill. Washing-machine. No. 1,128,722; Feb. 16; Gaz. vol. 211; p. 808.
- Renkel, George W., et al. (See Hammond, Robert O., assignor.)
- Renkenberger, Edward J., assignor to American Tool Handle Company, Buffalo, N. Y. Metal bush. No. 1,130,336; Mar. 2; Gaz. vol. 212; p. 172.
- Renkenberger, Edward J., Chicago, Ill., assignor to American Tool Handle Company, Buffalo, N. Y. Handle-ferule. No. 1,144,382; June 29; Gaz. vol. 215; p. 1282.
- Renner, Nicholas E., Jersey City, N. J. Signal device. No. 1,165,126; Dec. 21; Gaz. vol. 221; p. 923.
- Renne, Ulysses S., Smithland, Iowa. Wheel. No. 1,158,850; Nov. 2; Gaz. vol. 220; p. 156.
- Renner, Charles W., Altoona, Pa. Ventilator. No. 1,124,805; Jan. 12; Gaz. vol. 210; p. 608.
- Renner, Charles W., Altoona, Pa. Metal door. No. 1,159,993; Nov. 9; Gaz. vol. 220; p. 590.
- Renner, Frank A., Tampico, Ill. Earth-handling mechanism. No. 1,160,199; Nov. 16; Gaz. vol. 220; p. 715.
- Renner, Henry P., Waynesburg, Pa. Nut-lock. No. 1,166,259; Dec. 28; Gaz. vol. 221; p. 1362.
- Renner, Willie L., and M. A. Brown, Dublin, Tex. Card-door. No. 1,156,098; Oct. 12; Gaz. vol. 219; p. 295.
- Rennerfelt, Ture G., Stockholm, Sweden. Stone-crushing machine. No. 1,141,581; June 1; Gaz. vol. 215; p. 176.
- Renner, Edward, assignor of one-half to G. E. Timmins, Baltimore, Md. Indicator for locks. No. 1,161,158; Nov. 23; Gaz. vol. 220; p. 1099.
- Rennie, James, assignor of one-half to J. J. Noon, Fairchance, Pa. Combined rail chair and joint. No. 1,158,718; Nov. 2; Gaz. vol. 220; p. 107.
- Rennie, John A., Lyndhurst, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,152,972; Sept. 7; Gaz. vol. 218; p. 218.
- Rennie, Robert D., Portland, Oreg. Adjustable shower. No. 1,161,528; Nov. 23; Gaz. vol. 220; p. 1232.
- Reno, Emile V., and J. A. C. Bois, Somme, France. Oil-pump. No. 1,135,617; Apr. 13; Gaz. vol. 213; p. 587.
- Renold, Charles G., Manchester, England. Driving-chain. No. 1,161,821; Nov. 23; Gaz. vol. 220; p. 1331.
- Renold, Hans, Manchester, England. Driving-chain. No. 1,134,010; Mar. 30; Gaz. vol. 212; p. 1628.
- Renshaw, Alfred H., Noroton, Conn., assignor to Federal Signal Company, Albany, N. Y. Mechanism for controlling railway signals. No. 1,137,084; Apr. 27; Gaz. vol. 213; p. 1183.
- Renshaw, Charles E., East Orange, and C. H. Jenkins, Belleville, N. J., assignors to Newman Clock Company, New York, N. Y. Cautionary telltale. No. 1,134,698; Apr. 6; Gaz. vol. 213; p. 225.
- Rensink, George C., Denver, Colo. Oil separator and purifier. No. 1,134,419; Apr. 6; Gaz. vol. 213; p. 121.
- Renstrom, Edward L., Leadville, Colo. Instrument. No. 1,149,085; Aug. 3; Gaz. vol. 217; p. 211.
- Renstrom, John A., Spokane, Wash. Gate. No. 1,164,396; Dec. 14; Gaz. vol. 221; p. 627.
- Renton, George F. (See Hind and Renton.)
- Renton, George W., Brooklyn, N. Y. Claw-hammer. No. 1,137,663; Apr. 27; Gaz. vol. 213; p. 1387.
- Reutz, George H., Minneapolis, Minn. Antiseptic instrument-case. No. 1,143,436; June 15; Gaz. vol. 215; p. 902.

Alphabetical list of patentees—Continued.

- Rentz, William C., Jr., Atlanta, Ga. Primer for internal-combustion engines. No. 1,150,385; Aug. 17; Gaz. vol. 217; p. 843.
- Renwick, Charles W. (See Lamoreaux and Renwick.)
- Renz, Charles L., Jr., et al. (See Watkins, Arthur G., assignor.)
- Renzetti, Amindo and L., New York, N. Y. Leaf-folding mechanism for tables. No. 1,151,394; Aug. 24; Gaz. vol. 217; p. 1245.
- Renzetti, Luigi. (See Renzetti, Amindo and L.)
- Reo Motor Car Company. (See Thomas, Horace T., assignor.)
- Replogle, James B., Chicago, Ill. Printing-press. No. 1,127,680; Feb. 9; Gaz. vol. 211; p. 393.
- Replogle, James B., Chicago, Ill. Apparatus for determining working-space. No. 1,151,716; Aug. 31; Gaz. vol. 217; p. 1402.
- Repp, Clinton B., New York, N. Y. Phonograph. No. 1,146,519; July 13; Gaz. vol. 216; p. 562.
- Repp, Clinton B., Plainfield, N. J. Phonograph. No. 1,156,931; Oct. 19; Gaz. vol. 219; p. 615.
- Repp, Clinton B., New York, N. Y. Sound-box for phonographs. No. 1,163,854; Dec. 14; Gaz. vol. 221; p. 438.
- Repp, Clinton B., and I. L. Cochrane, New York, N. Y. Window. No. 1,151,823; Aug. 31; Gaz. vol. 217; p. 1441.
- Reppert, Hans von, Cologne, Germany. Mechanical bell-ringing device. No. 1,124,525; Jan. 12; Gaz. vol. 210; p. 506.
- Republic Hose Coupler Corporation. (See Müller, Frank X., assignor.)
- Republic Rubber Company, The. (See Petersen, Ludvig T., assignor.)
- Requa, Ralph W., Chico, Cal. Square. No. 1,139,229; May 11; Gaz. vol. 214; p. 568.
- Reschke, Charles, Detroit, Mich. Micrometer-calipers. No. 1,140,611; May 25; Gaz. vol. 214; p. 1126.
- Reschke, William P., Wichita, Kans. Kafir-corn header. No. 1,160,759; Nov. 16; Gaz. vol. 220; p. 914.
- Reser, Charlie H. (See Peterman and Reser.)
- Resler, Oliver P. (See Resler, William F. and O. P.)
- Resler, William F. and O. P., Hendley, Nebr. Sweep-rake push. No. 1,127,681; Feb. 9; Gaz. vol. 211; p. 394.
- Ressler, Emory G., Stevens Point, Wis. Stove-ld lifter. No. 1,148,715; Aug. 3; Gaz. vol. 217; p. 83.
- Restetsky, Herbert A., Maplewood, Mo. Rake attachment. No. 1,126,273; Jan. 26; Gaz. vol. 210; p. 1200.
- Reston, Henry P., assignor to The Cincinnati Planer Company, Oakley, Ohio. Clutch-shifting mechanism. No. 1,137,716; Apr. 27; Gaz. vol. 213; p. 1404.
- Restorff, William G., assignor of one-half to M. McDonald, Washington, D. C. Combined vanity-box and program. No. 1,156,815; Oct. 12; Gaz. vol. 219; p. 542.
- Restorff, William G., and M. M. Lile, assignors of one-half to said Restorff and one-half to J. C. Cardwell, Washington, D. C. Crutch attachment. No. 1,132,119; Mar. 16; Gaz. vol. 212; p. 865.
- Restucci, Giuseppe, Naples, Italy. Steam drying and superheating system. No. 1,157,901; Oct. 26; Gaz. vol. 219; p. 1019.
- Retaliata, John L., Jr., Denver, Colo., assignor of one-half to J. L. Retaliata, Sr. Draft attachment for chimneys or stacks. No. 1,136,914; Apr. 20; Gaz. vol. 213; p. 1086.
- Rethorn, Carl J., Shelley, Idaho. Lawn and garden rake. No. 1,131,553; Mar. 9; Gaz. vol. 212; p. 627.
- Rettig, George P., Richmond, Ind. Farm-tractor. No. 1,160,320; Nov. 16; Gaz. vol. 220; p. 756.
- Reftman, Charles H., Chicago, Ill. Advertising device. No. 1,163,771; Dec. 14; Gaz. vol. 221; p. 408.
- Retzlaff, Emil, Hoffman, Minn. Vehicle-wheel. No. 1,134,011; Mar. 30; Gaz. vol. 212; p. 1628.
- Retzler, Joseph J., Swissvale, and J. L. Shelton, Turtle Creek, Pa. Music-leaf turner. No. 1,140,612; May 25; Gaz. vol. 214; p. 1126.
- Reuscher, Charles J. (See Walter, David C., assignor.)
- Reuschline, George L., Philadelphia, Pa. Ice-making apparatus. No. 1,134,420; Apr. 6; Gaz. vol. 213; p. 122.
- Reuse, Charles. (See Reuse, Jean and C.)
- Reuse, Jean and C., Hal, Belgium. Resilient wheel. No. 1,145,034; July 6; Gaz. vol. 216; p. 21.
- Reusse, Walter E. (See Jacoby, William and V. Y., assignors.)
- Reuthehuber, William A., Wilkes-Barre, Pa. Automatic means for controlling the operation of figs. No. 1,143,137; June 15; Gaz. vol. 215; p. 794.
- Reuter, Balthasar E. (See Kaiser and Reuter.)
- Reuter, William O., Peru, Ind. Auto lamp-shade. No. 1,143,138; June 15; Gaz. vol. 215; p. 795.
- Reuthe, Gustav, Sayville, N. Y., assignor to Gesellschaft für Drahtlose Telegraphie, M. B. H., Berlin, Germany. Electric condenser. No. 1,151,824; Aug. 31; Gaz. vol. 217; p. 1441.
- Reutter, Samuel E., Clearfield, Pa. Lock. No. 1,164,016; Dec. 14; Gaz. vol. 221; p. 494.
- Reutter, Samuel E., Clearfield, Pa. Lock. No. 1,164,017; Dec. 14; Gaz. vol. 221; p. 494.
- Revell, Alexander H., Chicago, Ill. Bath-tub. No. 1,149,687; Aug. 10; Gaz. vol. 217; p. 533.
- Revelli, Berthel-Abiel, Rome, assignor to Officine Di Villar Perosa, Villar Perosa, Italy. Automatic firearm. No. 1,159,417; Nov. 9; Gaz. vol. 220; p. 383.
- Revels, Dob. (See Sandford, Robert W., assignor.)
- Revere Rubber Company. (See Carlisle, Fred B., assignor.)
- Revere Rubber Company. (See Cobb, Henry Z., assignor.)
- Revere Rubber Company. (See Murrill, Paul I., assignor.)
- Revere Rubber Company. (See Williams, Carl S., assignor.)
- Rew, George C. (See Monsen, Adolph, assignor.)
- Rex Buggy Company. (See Hull, Matthew R., assignor.)
- Rex Extinguisher Company, The. (See Dunbar, Mahlon, assignor.)
- Rex Revolving Light Company. (See Davis and Richardson, assignors.)
- Rexford, Ley P. (See Jones and Rexford.)
- Rexford, Ley P. (See Jones, Rexford, and Gores.)
- Rexford, Ley P., assignor to American Paper Products Company, St. Louis, Mo. Paper box. No. 1,152,844; Sept. 7; Gaz. vol. 218; p. 171.
- Rexford, Ley P., assignor to American Paper Products Company, St. Louis, Mo. Paper box. No. 1,160,760; Nov. 16; Gaz. vol. 220; p. 914.
- Rexroat, George P., assignor of one-fourth to C. T. Bates, Roodhouse, Ill. Feeding apparatus. No. 1,155,684; Oct. 5; Gaz. vol. 219; p. 125.
- Rexroth, Louis, Jr. (See Rauscher and Rexroth.)
- Rextrew, Frank H., Hammond, Ind. Eye-protector. No. 1,123,376; Jan. 5; Gaz. vol. 210; p. 62.
- Rextrew, Frank H., Hammond, Ind. Match-safe. No. 1,125,174; Jan. 19; Gaz. vol. 210; p. 773.
- Rey, Anthony. (See Mangisch and Rey.)
- Rey, Jean A., Paris, France. Submarine mine. No. 1,151,902; Aug. 31; Gaz. vol. 217; p. 1468.
- Rey, Jean A., Paris, France. Mooring apparatus for submarine mines. No. 1,151,903; Aug. 31; Gaz. vol. 217; p. 1468.
- Rey, Ramon, Tampa, Fla. Cigar-case. No. 1,125,175; Jan. 19; Gaz. vol. 210; p. 774.
- Reyam, David, Wilmington, Del., and M. Mayer, Freeport, N. Y. Hot-air radiator. No. 1,160,761; Nov. 16; Gaz. vol. 220; p. 915.
- Reyman, Iss, Port Chester, N. Y. Nursing-bottle holder. No. 1,128,046; Feb. 9; Gaz. vol. 211; p. 525.
- Reyman, Philip S., Mount Carmel, Ill. Stave-jointing machine. No. 1,158,004; Oct. 26; Gaz. vol. 219; p. 1054.
- Reynard, Charles M., assignor to McKeesport Tin Plate Company, McKeesport, Pa. Apparatus for cleaning tin plates. No. 1,136,270; Apr. 20; Gaz. vol. 213; p. 856.
- Reynders, Arthur B., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Insulating-tube. No. 1,159,798; Nov. 9; Gaz. vol. 220; p. 521.
- Reynders, Arthur B., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Manufacturing tubes. No. 1,160,100; Nov. 9; Gaz. vol. 220; p. 626.
- Reyner, Paul A., Broken Bow, Nebr. End-gate fastener. No. 1,144,062; June 22; Gaz. vol. 215; p. 1141.
- Reynolds, Albert H., London, Ontario, Canada. Automatic machine for loading and screening coal and other material by power. No. 1,138,790; May 11; Gaz. vol. 214; p. 414.
- Reynolds, Asa Q. (See Anthony, Harold G., assignor.)
- Reynolds Corporation, The. (See Sackett, Harrie A., assignor.)
- Reynolds, Edward A. and H. V., Anderson, Ind. Electric signal system. No. 1,131,006; Mar. 9; Gaz. vol. 212; p. 439.
- Reynolds, Ernest L., Ardmore, Okla. Liquid-meter. No. 1,125,176; Jan. 19; Gaz. vol. 210; p. 774.
- Reynolds, Floyd L., Middleton, Mich. Shock-absorber. No. 1,135,923; Apr. 13; Gaz. vol. 213; p. 692.
- Reynolds, Frank W., Mansfield, Ohio. Stove-door. No. 1,157,041; Oct. 19; Gaz. vol. 219; p. 655.
- Reynolds, George E., assignor of one-third to W. H. Brown, Wyoming, and one-third to F. Nowak, Exeter, Pa. Coal-jig. No. 1,166,078; Dec. 28; Gaz. vol. 221; p. 1292.
- Reynolds, Henry V. (See Reynolds, Edward A. and H. V.)
- Reynolds, Herman M., Oneida, N. Y. Lathe-dog. No. 1,124,172; Jan. 5; Gaz. vol. 210; p. 331.
- Reynolds, Hugh A., Anniston, Ala. Tying device. No. 1,139,721; May 18; Gaz. vol. 214; p. 778.
- Reynolds, James M., Butte, Mont. Stabilizing device for aeroplanes. No. 1,148,050; July 27; Gaz. vol. 216; p. 1144.
- Reynolds, James W., Chicago, Ill. Artificial bait. No. 1,133,669; Mar. 30; Gaz. vol. 212; p. 1514.
- Reynolds, John A., Sigourney, Iowa. Egg-case. No. 1,126,274; Jan. 26; Gaz. vol. 210; p. 1200.
- Reynolds, John E., Taft, Cal. Apparatus for preventing the emulsification of oil from wells. No. 1,157,902; Oct. 26; Gaz. vol. 219; p. 1019.
- Reynolds, John E., Taft, Cal. Preventing the emulsification of oil from wells. No. 1,157,903; Oct. 26; Gaz. vol. 219; p. 1020.
- Reynolds, John F. (See Friend and Reynolds.)
- Reynolds, John N. (See Craft and Reynolds.)
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Multiple-brush selector. No. 1,123,799; Jan. 5; Gaz. vol. 210; p. 205.

Alphabetical list of patentees—Continued.

- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Test-guard for automatic switching apparatus. No. 1,124,060; Jan. 5; Gaz. vol. 210; p. 293.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Line-switch. No. 1,131,734; Mar. 16; Gaz. vol. 212; p. 725.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Selector-switch. No. 1,139,722; May 18; Gaz. vol. 214; p. 778.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Sending device. No. 1,147,437; July 20; Gaz. vol. 216; p. 903.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Terminal bank. No. 1,161,884; Nov. 30; Gaz. vol. 220; p. 1400.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Controlling apparatus for electrical switching systems. No. 1,162,514; Nov. 30; Gaz. vol. 220; p. 1620.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, New York, N. Y. Sequence-switch. No. 1,164,213; Dec. 14; Gaz. vol. 221; p. 561.
- Reynolds, John N., Greenwich, Conn., and C. F. Baldwin, Montclair, N. J., assignors to Western Electric Company, New York, N. Y. Sequence-switch. No. 1,127,808; Feb. 9; Gaz. vol. 211; p. 443.
- Reynolds, Joseph S. (See Shearer, George T., assignor.)
- Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Starch-drying truck. No. 1,139,072; May 11; Gaz. vol. 214; p. 514.
- Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Car. No. 1,152,047; Aug. 31; Gaz. vol. 217; p. 1517.
- Reynolds, Morley P., assignor to W. S. Tyler Company, Cleveland, Ohio. Refrigerator-car. No. 1,153,705; Sept. 14; Gaz. vol. 218; p. 513.
- Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Refrigerator-car. No. 1,154,436; Sept. 21; Gaz. vol. 218; p. 800.
- Reynolds, Morley P., assignor to W. S. Tyler Company, Cleveland, Ohio. Brake-shoe. No. 1,155,685; Oct. 5; Gaz. vol. 219; p. 126.
- Reynolds, Richard S., Bristol, Tenn. Drinking-cup shield. No. 1,161,730; Nov. 23; Gaz. vol. 220; p. 1299.
- Reynolds, Robert A., Port Huron, Mich. Grinding-disk. No. 1,131,272; Mar. 9; Gaz. vol. 212; p. 531.
- Reynolds, Samuel W., Scranton, Pa. Hand-operated propelling mechanism. No. 1,126,569; Jan. 26; Gaz. vol. 210; p. 1308.
- Reynolds, Samuel W., West Toledo, Ohio. Setting-machine. No. 1,153,827; Sept. 14; Gaz. vol. 218; p. 556.
- Reynolds, Walter J., Providence, R. I. Compound for treating road surfaces. No. 1,131,793; Mar. 16; Gaz. vol. 212; p. 748.
- Reynolds, Walter M., assignor of one-half to M. C. Vanderford, Hattiesburg, Miss. Cultivator. No. 1,131,957; Mar. 16; Gaz. vol. 212; p. 806.
- Reynolds, William, Paterson, N. J., assignor to The S. K. F. Ball-Bearing Co., New York, N. Y. Ball-bearing mounting. No. 1,158,719; Nov. 2; Gaz. vol. 220; p. 107.
- Reynolds, William L., Denver, Colo. Reinforced-concrete-stave silo. No. 1,161,973; Nov. 30; Gaz. vol. 220; p. 1432.
- Reznor, Jesse T., Mercer, Pa. Gas-heater. No. 1,163,458; Dec. 7; Gaz. vol. 221; p. 253.
- Rheinauer, Daniel, New York, N. Y. Sweater. No. 1,158,290; Oct. 26; Gaz. vol. 219; p. 1155.
- Rheinberg, Julius, London, England. Screen for color photography and general photographic purposes. No. 1,161,731; Nov. 23; Gaz. vol. 220; p. 1299.
- Rheinberger, Alfonso R., St. Paul, Minn. Connector for ground-terminals. No. 1,156,314; Oct. 12; Gaz. vol. 219; p. 366.
- Rheinsche Dynamitfabrik. (See Weyel, Rudolf, assignor.)
- Rheinsche Metallwaren- und Maschinenfabrik. (See Faber, Ernst, assignor.)
- Rheinsche Metallwaren- und Maschinenfabrik. (See Grauhedding, Oskar, assignor.)
- Rheinsche Metallwaren- und Maschinenfabrik. (See Klette, Curt, assignor.)
- Rheinsche Metallwaren- und Maschinenfabrik. (See Müller, Emil, assignor.)
- Rheinsche Metallwaren- und Maschinenfabrik. (See Prah, Hugo, assignor.)
- Rheinsche Metallwaren- und Maschinenfabrik. (See Schmidt, Ernst G., assignor.)
- Rheinsche Metallwaren- und Maschinenfabrik. (See Völler, Karl, assignor.)
- Rhett, Albert H., New York, N. Y. Waterproof concrete floor for bridges. No. 1,128,047; Feb. 9; Gaz. vol. 211; p. 526.
- Rheutan, Isaac L., assignor to Union Envelope Company, Richmond, Va. Envelop. No. 1,136,614; Apr. 20; Gaz. vol. 213; p. 979.
- Rheutan, Isaac L., assignor to Union Envelope Company, Richmond, Va. Envelop. No. 1,163,459; Dec. 7; Gaz. vol. 221; p. 253.
- Rhines, Foster K., et al. (See Bowdish, Albertis, assignor.)
- Rhines, John W., et al. (See Bowdish, Albertis, assignor.)
- Rhinesmith, William A., Upper Macopin, N. J. Railway-tie. No. 1,148,051; July 27; Gaz. vol. 216; p. 1144.
- Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Filling-replenishing loom. No. 1,124,527; Jan. 12; Gaz. vol. 210; p. 507.
- Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Thread parting and holding means for looms. No. 1,134,487; Apr. 6; Gaz. vol. 213; p. 147.
- Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Automatically-threading loom-shuttle. No. 1,138,316; May 4; Gaz. vol. 214; p. 208.
- Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Spooler. No. 1,140,768; May 25; Gaz. vol. 214; p. 1177.
- Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Guide for thread-cutting temples. No. 1,141,654; June 1; Gaz. vol. 215; p. 202.
- Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Spooler. No. 1,152,845; Sept. 7; Gaz. vol. 218; p. 171.
- Rhoades, Charles S., Jr., Chicago, Ill., assignor, by mesne assignments, to Hall Switch Signal Company, Call-box. No. 1,137,717; Apr. 27; Gaz. vol. 213; p. 1405.
- Rhoades, George M., Ashton, S. D. Snow-fence. No. 1,165,906; Dec. 28; Gaz. vol. 221; p. 1233.
- Rhoades, John W., Holdrege, Nebr. Window and door screen. No. 1,166,260; Dec. 28; Gaz. vol. 221; p. 1362.
- Rhoades, Lewis T., Mont Clare, Pa., assignor to New York Coil Company, Incorporated, New York, N. Y. Ignition device for internal-combustion engines. No. 1,155,372; Oct. 5; Gaz. vol. 219; p. 17.
- Rhoads, Albert J., Jefferson, Ohio. Clothes-line prop. No. 1,163,855; Dec. 14; Gaz. vol. 221; p. 439.
- Rhoads, Elmer E., Eddyville, Iowa. Wrench. No. 1,146,099; July 13; Gaz. vol. 216; p. 413.
- Rhoads, Elmer E., Lockman, Iowa. Pick. No. 1,161,974; Nov. 30; Gaz. vol. 220; p. 1432.
- Rhoads, George W., and C. S. Small, Franklin, Pa. Lock-nut. No. 1,140,286; May 18; Gaz. vol. 214; p. 974.
- Rhoads, Joseph E., Wilmington, Del. Making laminated structures. No. 1,140,187; May 18; Gaz. vol. 214; p. 942.
- Rhoads, Ralph S., assignor, to Evens and Howard Fire Brick Company, St. Louis, Mo. Tile. No. 1,145,214; July 6; Gaz. vol. 216; p. 83.
- Rhoads, Samuel W., Farmington, Ill. Friction-clutch. No. 1,156,555; Oct. 12; Gaz. vol. 219; p. 454.
- Rhode, Frederick J. A., Hampton, Nebr. Weed and trash rod for plows. No. 1,162,310; Nov. 30; Gaz. vol. 220; p. 1550.
- Rhodes, Alfred T., New York, N. Y. Paper box or carton. No. 1,155,686; Oct. 5; Gaz. vol. 219; p. 126.
- Rhodes, Charles F. (See Cline and Rhodes.)
- Rhodes, Elbridge L. (See Rhodes, George E., assignor.)
- Rhodes, Ernest G. (See Hatchett and Rhodes.)
- Rhodes, George E., Jacksonville, assignor of one-half to E. L. Rhodes, Whitehouse, Fla. Saw-sharpening machine. No. 1,137,664; Apr. 27; Gaz. vol. 213; p. 1388.
- Rhodes, Hampton P., Shreveport, La. Metallic packing-ring. No. 1,136,271; Apr. 20; Gaz. vol. 213; p. 857.
- Rhodes, Jay B., Kalamazoo, Mich., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,161,159; Nov. 23; Gaz. vol. 220; p. 1099.
- Rhodes, Robert W., Greensburg, Pa. Lock for handle-sleeves of fluid-operated machines. No. 1,131,794; Mar. 16; Gaz. vol. 212; p. 749.
- Rhodes, Samuel E., Greenville, Mich. Potato-sorter. No. 1,135,395; Apr. 13; Gaz. vol. 213; p. 507.
- Rhodes, Samuel G., New York, N. Y. Apparatus for holding and cooling the bulbs of electric lamps. No. 1,145,613; July 6; Gaz. vol. 216; p. 222.
- Rhodes, Seth A., Oak Park, Ill. Optical instrument. No. 1,130,106; Mar. 2; Gaz. vol. 212; p. 92.
- Rhodes, William W., Woodville, Ohio. Measuring-tank. No. 1,124,329; Jan. 12; Gaz. vol. 210; p. 435.
- Rhodes, Willis M., Moscow, Idaho. Leveling mechanism for harvesters. No. 1,135,618; Apr. 13; Gaz. vol. 213; p. 587.
- Rhodes, Willis M., Moscow, Idaho. Suspension system for headers. No. 1,135,619; Apr. 13; Gaz. vol. 213; p. 588.
- Rhodes, Willis M., Moscow, Idaho. Grain-bag chute for harvesters. No. 1,135,620; Apr. 13; Gaz. vol. 213; p. 588.
- Rhodus, Thomas, Chicago, Ill. Rheostat. No. 1,154,728; Sept. 28; Gaz. vol. 218; p. 928.
- Rhodus, Thomas, Chicago, Ill. Vehicle-wheel. No. 1,159,091; Nov. 2; Gaz. vol. 220; p. 235.
- Rhodus, Thomas, Chicago, Ill. Vehicle-wheel. No. 1,159,092; Nov. 2; Gaz. vol. 220; p. 236.
- Rhodus, Thomas, Chicago, Ill. Rheostat. No. 1,159,093; Nov. 2; Gaz. vol. 220; p. 236.
- Rhodus, Thomas, Chicago, Ill., assignor to The Magni-phone Company, Telephone-receiver. No. 1,168,152; Dec. 28; Gaz. vol. 221; p. 1321.
- Rhody, Elza, Farmland, Ind. Gate-hinge. No. 1,141,828; June 1; Gaz. vol. 215; p. 259.
- Rhomoser, Matthew R., Sandy Hook, Conn., assignor to Fabric Fire Hose Company, New York, N. Y. Circular loom. No. 1,139,073; May 11; Gaz. vol. 214; p. 514.
- Rhone, John A., Saratoga, Wyo. Vehicle-wheel. No. 1,152,220; Aug. 31; Gaz. vol. 217; p. 1577.

Alphabetical list of patentees—Continued.

- Rhoten, James H., Danville, Ill. Garden-plow. No. 1,131,007; Mar. 9; Gaz. vol. 212; p. 439.
- Ribar, Louis, Detroit, Mich. Bed-table. No. 1,140,397; May 25; Gaz. vol. 214; p. 1049.
- Ribbon Record Company. (See Eynon, Thomas, assignor.)
- Riblet, Royal N., Spokane, Wash. Traction-wheel. No. 1,134,960; Apr. 6; Gaz. vol. 213; p. 312.
- Riboni, Pietro. (See Bibolini and Riboni.)
- Ricard, Arnold J., Slater, Mo. Fountain-brush. No. 1,105,208; Dec. 21; Gaz. vol. 221; p. 952.
- Ricard, Joseph A., Boston, Mass. Safety-plug for boilers. No. 1,159,710; Nov. 9; Gaz. vol. 220; p. 488.
- Ricardo, Harry R., London, and H. A. Hetherington, Byfleet, Surrey, England. Internal-combustion engine. No. 1,133,402; Mar. 30; Gaz. vol. 212; p. 1416.
- Rice, Arlo E., Marcus, Iowa. Pipe-wrench. No. 1,154,654; Sept. 28; Gaz. vol. 218; p. 904.
- Rice, Barton & Fales Machine & Iron Company. (See Kilberry, George D., assignor.)
- Rice, Benjamin E. (See McKesson and Rice.)
- Rice, Charles J., Ashland, Ky., assignor to The Pneumatic Cupola Co., Ironton, Ohio. Metallurgical apparatus. No. 1,133,317; Mar. 30; Gaz. vol. 212; p. 1385.
- Rice, Charles K., Indianapolis, Ind. Heating-stove. No. 1,136,615; Apr. 20; Gaz. vol. 213; p. 980.
- Rice, Charles K., Indianapolis, Ind. Heating-stove. No. 1,147,645; July 20; Gaz. vol. 216; p. 975.
- Rice, Charles M., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling device. No. 1,163,688; Dec. 14; Gaz. vol. 221; p. 378.
- Rice, Clarence S., Indianapolis, Ind. Lubricating grease-cup. No. 1,132,120; Mar. 16; Gaz. vol. 212; p. 865.
- Rice, Cyrus W. (See De Kubber, Abraham, assignor.)
- Rice, Edward E., Philadelphia, Pa. Stone-cleansing tool. No. 1,165,022; Dec. 21; Gaz. vol. 221; p. 885.
- Rice, Frank E., assignor to American Tap Bush Co., Detroit, Mich. Beer-tap and bushing. No. 1,141,269; June 1; Gaz. vol. 215; p. 63.
- Rice, Frank E., assignor to American Tap Bush Co., Detroit, Mich. Check-valve. No. 1,164,869; Dec. 21; Gaz. vol. 221; p. 832.
- Rice, Frederick W., East Seattle, Wash. Puzzle. No. 1,129,604; Feb. 23; Gaz. vol. 211; p. 1155.
- Rice, Ivan A., Dalark, Ark. Cotton-chopper. No. 1,125,714; Jan. 19; Gaz. vol. 210; p. 968.
- Rice, Irwin E. (See Wilson and Rice.)
- Rice, James E. (See Sennett, Leonidas, assignor.)
- Rice, Joel A. (See Rice, Royal A. and J. A.)
- Rice, John E., administrator. (See Rice, William H.)
- Rice, Joseph D., Philadelphia, Pa. Railway-rail splice-piece and chair. No. 1,158,851; Nov. 2; Gaz. vol. 220; p. 156.
- Rice, Lewis A., Allentown, Pa., assignor to J. D. Sharpe, Thetford Mines, Quebec, Canada. Apparatus for drying asbestos and the like. No. 1,123,377; Jan. 5; Gaz. vol. 210; p. 62.
- Rice, Norman E., Eureka, Cal. Vending-machine. No. 1,123,378; Jan. 5; Gaz. vol. 210; p. 63.
- Rice, Norman E., Eureka, Cal. Stove-lid. No. 1,140,529; May 25; Gaz. vol. 214; p. 1099.
- Rice, Oscar W., assignor to The Edward J. Rice Mfg. Co., Rochester, N. Y. Water-closet connection. No. 1,152,973; Sept. 7; Gaz. vol. 218; p. 218.
- Rice, Oscar W., assignor to The Edward J. Rice Mfg. Co., Rochester, N. Y. Water-closet bend. No. 1,152,974; Sept. 7; Gaz. vol. 218; p. 219.
- Rice, Philip, Berkeley, Cal. Vibratory apparatus. No. 1,164,018; Dec. 14; Gaz. vol. 221; p. 494.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Flow-meter of the Venturi type. No. 1,126,275; Jan. 26; Gaz. vol. 210; p. 1200.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Automatic governing mechanism. No. 1,134,761; Apr. 6; Gaz. vol. 213; p. 248.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Hydraulic valve-gear. No. 1,143,437; June 15; Gaz. vol. 215; p. 902.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Regulating device for mixed-pressure turbo-compressors. No. 1,154,594; Sept. 21; Gaz. vol. 218; p. 855.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Frame for turbo-driven machines. No. 1,156,162; Sept. 28; Gaz. vol. 218; p. 1078.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Geared turbine-driven set. No. 1,155,163; Sept. 28; Gaz. vol. 218; p. 1078.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Shaft-coupling. No. 1,156,493; Oct. 12; Gaz. vol. 219; p. 432.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,156,627; Oct. 12; Gaz. vol. 219; p. 479.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Centrifugal air-compressor. No. 1,159,094; Nov. 2; Gaz. vol. 220; p. 236.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Rubbing-strip for centrifugal air-compressors. No. 1,159,095; Nov. 2; Gaz. vol. 220; p. 237.
- Rice, Royal A. and J. A., New York, N. Y. Manure-pouch. No. 1,136,272; Apr. 20; Gaz. vol. 213; p. 857.
- Rice-Stix Dry Goods Company. (See Ink, Harry E., assignor.)
- Rice, Thomas B., Jr., Philadelphia, Pa. Attachment for machines for driving fasteners. No. 1,153,955; Sept. 21; Gaz. vol. 218; p. 635.
- Rice, Walter L., Denver, Colo. Pneumatic spring for vehicles. No. 1,160,321; Nov. 16; Gaz. vol. 220; p. 757.
- Rice, Walter T., Chicago, Ill. Composite lubricating-oil. No. 1,163,856; Dec. 14; Gaz. vol. 221; p. 439.
- Rice, Wentworth, Salt Lake City, Utah. Glue or like pot. No. 1,135,466; Apr. 13; Gaz. vol. 213; p. 532.
- Rice, Wilbur A., Altoona, Pa. Disinfecting device for mausoleums. No. 1,123,379; Jan. 5; Gaz. vol. 210; p. 63.
- Rice, William E., La Fayette, Ind. Hook and eye. No. 1,144,786; June 29; Gaz. vol. 215; p. 1420.
- Rice, William H., Hamilton, Mich. Ladder. No. 1,131,273; Mar. 9; Gaz. vol. 212; p. 531.
- Rice, William H., deceased, Rochester, N. Y.; J. E. Rice, administrator. Machine for digging peanuts, potatoes, and the like. No. 1,131,419; Mar. 9; Gaz. vol. 212; p. 582.
- Rice, William J., Corpus Christi, Tex. Sanitary meat-clamp. No. 1,131,615; Mar. 9; Gaz. vol. 212; p. 649.
- Rice, William J. (See Hostetter and Rice.)
- Rich, Alfred J., Jr., San Francisco, Cal. Fluid-actuated engine. No. 1,165,023; Dec. 21; Gaz. vol. 221; p. 885.
- Rich, Charles A., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Screw-machine. No. 1,131,274; Mar. 9; Gaz. vol. 212; p. 531.
- Rich, Charles C., Mount Vernon, N. Y. Frictional locking hydraulic clutch. No. 1,136,168; Apr. 20; Gaz. vol. 213; p. 820.
- Rich, Charles C., assignor to The Hydro-Kinetic Transmission Company, Mount Vernon, N. Y. Hydraulic transmission mechanism. No. 1,156,816; Oct. 12; Gaz. vol. 219; p. 543.
- Rich, Charles C., assignor to The Hydro-Kinetic Transmission Company, Mount Vernon, N. Y. Hydraulic transmission mechanism. No. 1,156,817; Oct. 12; Gaz. vol. 219; p. 543.
- Rich, Charles C., assignor to The Hydro-Kinetic Transmission Company, Mount Vernon, N. Y. Hydraulic transmission mechanism. No. 1,156,818; Oct. 12; Gaz. vol. 219; p. 544.
- Rich, Charles C., assignor to The Hydro-Kinetic Transmission Company, Mount Vernon, N. Y. Clutch. No. 1,156,819; Oct. 12; Gaz. vol. 219; p. 544.
- Rich, Charles J., et al. (See Craig, James A., assignor.)
- Rich, Elmer A., Jr., Chicago, Ill. Illuminated sign. No. 1,139,723; May 18; Gaz. vol. 214; p. 778.
- Rich, Frank E., assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Piling-table for printing-presses. No. 1,145,921; July 13; Gaz. vol. 216; p. 350.
- Rich, Harland E. (See Turnquist and Rich.)
- Rich, Hollen W., et al. (See Craig, James A., assignor.)
- Rich, Richard W., Worcester, Mass. Ice handling and cutting machinery. No. 1,159,711; Nov. 9; Gaz. vol. 220; p. 488.
- Rich Tool Company. (See Wegland, Samuel A., assignor.)
- Rich, Virgil M. (See Russell, Manning W., assignor.)
- Rich, Walter J. (See Foster, Oliver M., assignor.)
- Rich, Willard G., Rochester, N. Y. Receptacle. No. 1,164,961; Dec. 21; Gaz. vol. 221; p. 864.
- Rich, William, Liverpool, England. Apparatus for indicating fires in compartments at a distance. No. 1,154,128; Sept. 21; Gaz. vol. 218; p. 694.
- Richa, John H. (See Cates, Homer F., assignor.)
- Richard, Clarence A., assignor to Detroit Lubricator Company, Detroit, Mich. Lubricator mechanism. No. 1,162,253; Nov. 30; Gaz. vol. 220; p. 1530.
- Richard, Eugene C., Flint, Mich. Carbureter. No. 1,149,291; Aug. 10; Gaz. vol. 217; p. 390.
- Richard, Frank, et al. (See Meier, John, assignor.)
- Richard, George C., Berkeley, Cal. Ventilating device for water-closets. No. 1,147,120; July 20; Gaz. vol. 216; p. 790.
- Richard, Jules, and R. P. M. Lavie, Paris, France. Photographic-roll holder. No. 1,155,508; Oct. 5; Gaz. vol. 219; p. 65.
- Richard, Leroy L., Coalinga, assignor to S. A. Guberson, Jr., San Francisco, Cal. Well-bailer. No. 1,160,654; Nov. 16; Gaz. vol. 220; p. 877.
- Richard, Martin J., Rayne, La. Harrow. No. 1,134,639; Apr. 6; Gaz. vol. 213; p. 204.
- Richard & Otto Werner. (See Hicks, George J., assignor.)
- Richard, Paul, Lebanon, Pa. Box. No. 1,139,801; May 18; Gaz. vol. 214; p. 805.
- Richards, Alfred E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,163,558; Dec. 7; Gaz. vol. 221; p. 287.
- Richards, Arthur M., Chicago, Ill. Reclining-chair. No. 1,127,682; Feb. 9; Gaz. vol. 211; p. 394.
- Richards, Benjamin, assignor to Albent Company, Canton, Mass. Clamping device. No. 1,126,867; Feb. 2; Gaz. vol. 211; p. 72.
- Richards, Brayton G., assignor to J. D. Warren Mfg. Co., Chicago, Ill. Cabinet-drawer and the like. No. 1,160,322; Nov. 16; Gaz. vol. 220; p. 757.
- Richards, Charles N. (See Whitney and Richards.)
- Richards, Francis H., Hartford, Conn. Mechanical movement. No. 1,134,961; Apr. 6; Gaz. vol. 213; p. 313.

Alphabetical list of patentees—Continued.

- Richards, Frank J., assignor of forty-nine one-hundredths to D. M. Brockway, Los Angeles, Cal. Rotary engine. No. 1,154,886; Sept. 28; Gaz. vol. 218; p. 981.
- Richards, Frank W., Hotchkissville, assignor of one-half to C. M. Newman, Bridgeport, Conn. Buffing-machine. No. 1,139,371; May 11; Gaz. vol. 214; p. 617.
- Richards, Fred T., assignor to Pelouze Manufacturing Co., Chicago, Ill. Scale. No. 1,140,530; May 25; Gaz. vol. 214; p. 1099.
- Richards, Glendon A., Grand Rapids, Mich. Supporting and aligning device for casings for steam-pipes. No. 1,128,513; Feb. 16; Gaz. vol. 211; p. 736.
- Richards, Harry M., *et al.* (See Lind, Carl A., assignor.)
- Richards, Hedley J. (See Koken and Richards.)
- Richards, Ithiel C., Los Angeles, Cal. Chalk-line reel. No. 1,152,221; Aug. 31; Gaz. vol. 217; p. 1577.
- Richards, John J., Jr., Brookline, Mass. Glare-screen. No. 1,158,005; Oct. 26; Gaz. vol. 219; p. 1054.
- Richards, Joseph L., San Francisco, Cal. Vehicle wheel-tire. No. 1,160,323; Nov. 16; Gaz. vol. 220; p. 757.
- Richards, Julius H., assignor to Splittdorf Electrical Company, Newark, N. J. Circuit-breaker for magnetos. No. 1,125,715; Jan. 19; Gaz. vol. 210; p. 968.
- Richards, Julius H., assignor to Splittdorf Electrical Company, Newark, N. J. Combined generator and timer-distributor mounting. No. 1,142,056; June 8; Gaz. vol. 215; p. 377.
- Richards, Louvern A. (See Jackson, Edgar M., assignor.)
- Richards, Oscar O., Birmingham, England. Reversible folding baby-carriage. No. 1,148,407; July 27; Gaz. vol. 216; p. 1271.
- Richards, Richard H. (See Mills and Richards.)
- Richards, Robert H., Boston, Mass. Classifier. No. 1,129,522; Feb. 23; Gaz. vol. 211; p. 1125.
- Richards, Sweden A., E. H. Van Emburgh, and C. Zeller, Easton, Pa. License-tag holder and speed-indicator. No. 1,145,614; July 6; Gaz. vol. 216; p. 222.
- Richards, Thomas, Chicago, Ill. Sash-lock. No. 1,148,859; Aug. 3; Gaz. vol. 217; p. 133.
- Richards, Walter E. W. (See Davies and Richards.)
- Richards, Walter J., assignor to National Brake & Electric Company, Milwaukee, Wis. Suspension device for fluid-compressors. No. 1,162,881; Dec. 7; Gaz. vol. 221; p. 51.
- Richards-Wilcox Manufacturing Company. (See Hoffman, Peter L., assignor.)
- Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
- Richards, Willard F., Depew, assignor to Gould Coupler Company, New York, N. Y. Car-coupling. No. 1,132,883; Mar. 16; Gaz. vol. 212; p. 962.
- Richards, Willard F., Depew, assignor to Gould Coupler Company, New York, N. Y. Car-coupling. No. 1,136,554; Apr. 20; Gaz. vol. 213; p. 958.
- Richards, Willard F., Depew, assignor to Gould Coupler Company, New York, N. Y. Car-coupling. No. 1,164,666; Dec. 21; Gaz. vol. 221; p. 762.
- Richards, William T., New Orleans, La. Bushing or bearing device. No. 1,126,276; Jan. 26; Gaz. vol. 210; p. 1201.
- Richardson, Albert J., assignor of one-half to J. Lyle, Long Beach, Cal. Automatic time cut-off. No. 1,150,453; Aug. 17; Gaz. vol. 217; p. 865.
- Richardson, Allen, Montgomery, Ala. Horse-boot. No. 1,163,952; Dec. 14; Gaz. vol. 221; p. 471.
- Richardson, Andrew T., assignor to Verona Tool Works, Verona, Pa. Lifting-jack. No. 1,143,067; June 15; Gaz. vol. 215; p. 771.
- Richardson, Charles A., *et al.* (See Haynes, Clarence B., assignor.)
- Richardson, Charles F., Woonsocket, R. I., assignor to J. A. Whitcomb, New York, N. Y. Type-writing machine. No. 1,126,277; Jan. 26; Gaz. vol. 210; p. 1201.
- Richardson, Charles F., Woonsocket, R. I., assignor to J. A. Whitcomb, New York, N. Y. Type-writing machine. No. 1,126,278; Jan. 26; Gaz. vol. 210; p. 1201.
- Richardson, Charles G., Springfield, Vt. Cloth stretching and rolling machine. No. 1,132,033; Mar. 16; Gaz. vol. 212; p. 834.
- Richardson, Charles G., Springfield, Vt. Cloth-shearing machine. No. 1,152,048; Aug. 31; Gaz. vol. 217; p. 1518.
- Richardson, Charles H., assignor of one-half to H. C. Tufts, Gloucester, Mass. Steering-gear. No. 1,151,717; Aug. 31; Gaz. vol. 217; p. 1402.
- Richardson, Charles L., and W. D. Hall, Sherman, Tex. Boltless rail-joint. No. 1,136,273; Apr. 20; Gaz. vol. 213; p. 857.
- Richardson, Dewey F., Scappoose, Oreg. Penholder. No. 1,135,396; Apr. 13; Gaz. vol. 213; p. 508.
- Richardson, Edro, assignor of one-half to T. R. Jenkins, Jr., Baltimore, Md. Flushing-valve. No. 1,134,488; Apr. 6; Gaz. vol. 213; p. 148.
- Richardson, Edward M., assignor of one-half to F. T. Hammond, Chicago, Ill. Vehicle-tire. No. 1,127,511; Feb. 9; Gaz. vol. 211; p. 339.
- Richardson, Ernest, College, Pa. Refrigerator-lining. No. 1,160,530; Nov. 16; Gaz. vol. 220; p. 830.
- Richardson, Ernest, College Hill, Pa. Table. No. 1,161,975; Nov. 30; Gaz. vol. 220; p. 1433.
- Richardson, Frederick, Springfield, Mo. Adjustable support for window-shades. No. 1,131,795; Mar. 16; Gaz. vol. 212; p. 749.
- Richardson, Frederick E., Manchester, Iowa. Door-latch. No. 1,139,311; May 11; Gaz. vol. 214; p. 594.
- Richardson, Harvey J. (See Jamieson, Bertrand G., assignor.)
- Richardson, Harvey J., Chicago, Ill. Means for cleaning air. No. 1,142,982; June 15; Gaz. vol. 215; p. 741.
- Richardson, Henry, Chicago, Ill. Wire fabric. No. 1,160,655; Nov. 16; Gaz. vol. 220; p. 877.
- Richardson, Henry, Chicago, Ill. Wire fabric. No. 1,160,656; Nov. 16; Gaz. vol. 220; p. 877.
- Richardson, Henry, Passaic, N. J. Automatic weighing apparatus. No. 1,160,762; Nov. 16; Gaz. vol. 220; p. 915.
- Richardson, Henry P., Killen, Ala. Hoop-machine. No. 1,134,012; Mar. 30; Gaz. vol. 212; p. 1628.
- Richardson, Jairus S., Sheboygan Falls, Wis. Clamp-brace. No. 1,157,327; Oct. 19; Gaz. vol. 219; p. 756.
- Richardson, James P., Manila, Philippine Islands. Base. No. 1,158,852; Nov. 2; Gaz. vol. 220; p. 156.
- Richardson, Jason, Buffalo, N. Y. Tire-protector. No. 1,158,075; Oct. 26; Gaz. vol. 219; p. 1080.
- Richardson, John H., Melrose, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Resurfacing-tool. No. 1,140,398; May 25; Gaz. vol. 214; p. 1049.
- Richardson, John H., Saugus, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-building machine. No. 1,148,716; Aug. 3; Gaz. vol. 217; p. 83.
- Richardson, John L., Philadelphia, Pa. Train control. No. 1,135,924; Apr. 13; Gaz. vol. 213; p. 693.
- Richardson, John S., Gibbs, Idaho. Toothless attachment for threshing-machines. No. 1,131,086; Mar. 9; Gaz. vol. 212; p. 466.
- Richardson, La Fayette J., Columbus, assignor of one-half to J. Q. Staples, Stewart, Miss. Car-seal. No. 1,163,857; Dec. 14; Gaz. vol. 221; p. 439.
- Richardson Manufacturing Company. (See Brown, Theophilus, assignor.)
- Richardson Manufacturing Company. (See Curtis, John D., assignor.)
- Richardson Manufacturing Company. (See Watts, Rowland H., assignor.)
- Richardson, O. C., Waxahachie, Tex. Measuring and leveling instrument. No. 1,127,809; Feb. 9; Gaz. vol. 211; p. 443.
- Richardson, Paley K., Mangum, Okla. Cotton packing or baling device. No. 1,154,655; Sept. 28; Gaz. vol. 218; p. 904.
- Richardson, Paul, assignor of one-half to E. Affolter, Longmont, Colo. Cultivator. No. 1,133,884; Mar. 30; Gaz. vol. 212; p. 1590.
- Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Carton. No. 1,126,279; Jan. 26; Gaz. vol. 210; p. 1202.
- Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Container. No. 1,141,489; June 1; Gaz. vol. 215; p. 144.
- Richardson, Solon O., Jr., Toledo, Ohio. Vacuum-operated glass-ladle. No. 1,147,438; July 20; Gaz. vol. 216; p. 903.
- Richardson, Tolbert N. (See Wootten, Charles T., assignor.)
- Richardson, Ullie M. (See Davis and Richardson.)
- Richardson, Wilber E., deceased; Wisconsin Trust Company, Milwaukee, Wis., administrator. Filter. No. 1,137,902; May 4; Gaz. vol. 214; p. 62.
- Richardson, Willard D., Worthington, Ohio. Continuous compartment gas-fired kiln. No. 1,133,885; Mar. 30; Gaz. vol. 212; p. 1590.
- Richardson, William D., Chicago, Ill. Solidifying soap. No. 1,164,397; Dec. 14; Gaz. vol. 221; p. 627.
- Richardson, William D., assignor to Swift & Company, Chicago, Ill. Hydrogenating oils or fats. No. 1,151,045; Aug. 24; Gaz. vol. 217; p. 1128.
- Richardson, William D., assignor to Swift & Company, Chicago, Ill. Catalyst and making same. No. 1,151,718; Aug. 31; Gaz. vol. 217; p. 1402.
- Richardson, William K., Leavenworth, Kans. Variable line-spacer for type-writing machines. No. 1,131,958; Mar. 16; Gaz. vol. 212; p. 807.
- Richardson, William K., Leavenworth, Kans. Projectile. No. 1,141,415; June 1; Gaz. vol. 215; p. 118.
- Richardson, William K. B., *et al.* (See Haynes, Clarence B., assignor.)
- Richart, George F., Grand Junction, Colo. Valve-gear. No. 1,141,416; June 1; Gaz. vol. 215; p. 119.
- Richbourg, Ben G., Nimrod, Tex. Attachment for wagon-bodies. No. 1,146,100; July 13; Gaz. vol. 216; p. 414.
- Riche, Jesse A., Woodhaven, N. Y. Bomb-calorimeter. No. 1,163,367; Dec. 7; Gaz. vol. 221; p. 222.
- Richert, Emanuel T., assignor to The Reality Rubber Company, Massillon, Ohio. Dipping and drying machine. No. 1,133,820; Mar. 30; Gaz. vol. 212; p. 1567.
- Richert, Johan G., Stockholm, Sweden. Refrigerating-car. No. 1,137,285; Apr. 27; Gaz. vol. 213; p. 1258.
- Richeson, Joseph S., assignor of one-half to C. H. Clements, Oronoco, Va. Mail-catcher. No. 1,154,807; Sept. 28; Gaz. vol. 218; p. 955.

Alphabetical list of patentees—Continued.

- Ricbey, John H., Salida, Colo. Draw-head. No. 1,124,952; Jan. 12; Gaz. vol. 210; p. 659.
- Richey, John T., Rogersville, Ala. Cotton-chopper. No. 1,152,975; Sept. 7; Gaz. vol. 218; p. 219.
- Richey, William. (See Reach and Richey.)
- Richins, William A., Grouse Creek, Utah. Night lamp or guard. No. 1,125,398; Jan. 19; Gaz. vol. 210; p. 856.
- Richmond, Carl A., Chicago, Ill. Metronome. No. 1,157,042; Oct. 19; Gaz. vol. 219; p. 655.
- Richmond, Carl A., Tyngsboro, Mass. Device for computing valuations of investment securities. No. 1,157,043; Oct. 19; Gaz. vol. 219; p. 655.
- Richmond Cedar Works. (See Parrish, James S., assignor.)
- Richmond Cedar Works. (See Praeger, Ewald, assignor.) (Reissue.)
- Richmond, Charles T., assignor to National Carbon Co., Cleveland, Ohio. Molding bodies from plastic material. No. 1,161,249; Nov. 23; Gaz. vol. 220; p. 1133.
- Richmond, Harry B. (See Black, James F., assignor.)
- Richmond, Henry E., Westwood, assignor to Underwood and Underwood, Arlington, N. J. Stereoscope. No. 1,157,419; Oct. 19; Gaz. vol. 219; p. 789.
- Richmond, John C., Helper, Utah. Locking device. No. 1,125,716; Jan. 19; Gaz. vol. 210; p. 968.
- Richmond, John C., Helper, Utah. Self-leveling table. No. 1,153,828; Sept. 14; Gaz. vol. 218; p. 556.
- Richmond, Julian. (See Murphy and Richmond.)
- Richmond, Kenneth F., London, England. Electric time-switch. No. 1,162,516; Nov. 30; Gaz. vol. 220; p. 1620.
- Richmond, Louis E. (See Mead and Richmond.)
- Richmond, Norman S., Chicago, Ill. Electric-lantern attachment. No. 1,135,049; Apr. 13; Gaz. vol. 213; p. 391.
- Richmond Radiator Company. (See Matchette, Frank J., assignor.)
- Richmond Radiator Company. (See Matchette and Radatz, assignors.)
- Richmond Radiator Company. (See Van Ness, Frank W., assignor.)
- Richmond, William B., *et al.* (See Anderson, Andrew S., assignor.)
- Richter, Adolf, Rudolstadt, Germany. Toy building-blocks. No. 1,124,526; Jan. 12; Gaz. vol. 210; p. 506.
- Richter, Felix, Frankfort-on-the-Main, Germany. Manufacturing a substance for purifying waste water and for draining sludge. No. 1,133,446; Mar. 30; Gaz. vol. 212; p. 1431.
- Richter, Fred R. F., Niverville, N. Y. Pneumatic cushion and shock-absorber. No. 1,135,925; Apr. 13; Gaz. vol. 213; p. 693.
- Richter, Hans A., Pottsville, Pa. Curtain-holder. No. 1,147,548; July 20; Gaz. vol. 216; p. 940.
- Richter, Hans F., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Machine for assembling metal receptacles. No. 1,136,553; Apr. 20; Gaz. vol. 213; p. 958.
- Richter, John L., Alameda, assignor to United States Faucet Co., San Francisco, Cal. Pipe-cleaning device. No. 1,149,164; Aug. 3; Gaz. vol. 217; p. 238.
- Richter, Josef, Geneva, Switzerland. Manufacturing stamping or printing dies or plates or blocks. No. 1,132,384; Mar. 16; Gaz. vol. 212; p. 962.
- Richter, Karl G. P., assignor to Dr. Richter & Co., Pforzheim, Germany. Gold alloy. No. 1,165,448; Dec. 28; Gaz. vol. 221; p. 1073.
- Richter, Kurt E., New York, N. Y. Tobacco-box. No. 1,166,079; Dec. 28; Gaz. vol. 221; p. 1292.
- Richter, Samuel G., Doltons Station, Ill. Derailer for cars. No. 1,130,433; Mar. 2; Gaz. vol. 212; p. 207.
- Richter, Wolfgang, Philadelphia, Pa. Knitting-machine. No. 1,127,283; Feb. 2; Gaz. vol. 211; p. 217.
- Rick, Jacob, Jersey City, assignor to Triune Engineering Co., Newark, N. J. Spark-plug. No. 1,159,994; Nov. 9; Gaz. vol. 220; p. 590.
- Rickard, Horace D., Syracuse, N. Y. Arithmetical drill-card. No. 1,150,624; Aug. 17; Gaz. vol. 217; p. 925.
- Rickard, Warren P., Plymouth, Mass. Fire-fighting apparatus. No. 1,155,958; Oct. 5; Gaz. vol. 219; p. 220.
- Rickards, Merrill O., Falls City, Nebr. Wheelbarrow. No. 1,158,291; Oct. 26; Gaz. vol. 219; p. 1155.
- Ricke, George H., assignor of one-half to E. Oelker, Cincinnati, Ohio. Shoe. No. 1,137,423; Apr. 27; Gaz. vol. 213; p. 1309.
- Ricke, George H., assignor to Flexible Wooden-Sole Shoe Company, Cincinnati, Ohio. Shoe. No. 1,159,330; Nov. 2; Gaz. vol. 220; p. 320.
- Ricker, Frank S., Oneida Castle, assignor to Oneida Community, Limited, Oneida, N. Y. Animal-trap. No. 1,143,589; June 15; Gaz. vol. 215; p. 953.
- Ricker, Jerome B., St. Maries, Idaho. Shaper for swaged saw-teeth. No. 1,153,444; Sept. 14; Gaz. vol. 218; p. 421.
- Rickerd, Fred S., assignor to Detroit Wire Spring Company, Detroit, Mich. Clip. No. 1,141,145; June 1; Gaz. vol. 215; p. 19.
- Rickers, Frank W., assignor of one-half to F. & M. Schaefer Brewing Co., New York, N. Y. Treating cement beer-fermenting tanks. No. 1,162,515; Nov. 30; Gaz. vol. 220; p. 1620.
- Rickett-Shafer Company. (See Johnson, John E., assignor.)
- Ricketts, Edwin B. (See Murray and Ricketts.)
- Ricketts, Forrest E., Baltimore, Md. Electric regulator. No. 1,146,954; July 20; Gaz. vol. 216; p. 733.
- Ricketts, Forrest E., Baltimore, Md. Electric regulator. No. 1,146,955; July 20; Gaz. vol. 216; p. 733.
- Ricketts, Forrest E., Baltimore, Md. Electric regulator. No. 1,146,956; July 20; Gaz. vol. 216; p. 733.
- Ricketts, Forrest E., Derwood, assignor of one-half to P. O. Keilholtz, Baltimore, Md. Electric regulator. No. 1,125,717; Jan. 19; Gaz. vol. 210; p. 969.
- Ricketts, James B., Brookline, Mass., assignor to The Nightingale Company, Incinerator. No. 1,137,232; Apr. 27; Gaz. vol. 213; p. 1238.
- Ricketts, James B., assignor to The Nightingale Company, New York, N. Y. Incinerator. No. 1,137,424; Apr. 27; Gaz. vol. 213; p. 1309.
- Ricketts, James R., Los Angeles, Cal. Stove. No. 1,130,930; Mar. 9; Gaz. vol. 212; p. 413.
- Ricketts, William C., Dayton, Ohio. Reinforced-concrete and masonry structure. No. 1,128,514; Feb. 16; Gaz. vol. 211; p. 737.
- Ricketts, William M., Westerville, Ohio. Draft connection for vehicles. No. 1,126,281; Jan. 26; Gaz. vol. 210; p. 1202.
- Rickles, Jasper N., Altoona, Ala. Picture-hanger. No. 1,154,887; Sept. 28; Gaz. vol. 218; p. 981.
- Rickmeyer, Otto, Milwaukee, Wis. Spark-plug. No. 1,132,385; Mar. 16; Gaz. vol. 212; p. 963.
- Rickon, Harold J., assignor of one-half to E. H. Kemp, San Francisco, Cal. Film-reel. No. 1,135,846; Apr. 13; Gaz. vol. 213; p. 608.
- Ricks, Floyd K., Canton, Ill. Wagon running-gear. No. 1,165,287; Dec. 21; Gaz. vol. 221; p. 978.
- Ridd, Ambrose, Brackenridge, Pa. Finishing metal sheets or plates. No. 1,133,670; Mar. 30; Gaz. vol. 212; p. 1514.
- Riddell, John W., Felton, England. Implement-socket fastening. No. 1,139,724; May 18; Gaz. vol. 214; p. 779.
- Riddell, William A., and R. Kroedel, assignors to Eastman Kodak Company, Rochester, N. Y. Lens-carriage for photographic cameras. No. 1,143,782; June 22; Gaz. vol. 215; p. 1042.
- Ridder, Joseph E., assignor to International Typesetting Machine Company, New York, N. Y. Mold. No. 1,124,953; Jan. 12; Gaz. vol. 210; p. 659.
- Ridderstedt, Charles H., Philadelphia, Pa. Steam-boiler control. No. 1,134,159; Apr. 6; Gaz. vol. 213; p. 27.
- Riddiford, George, Chicago, Ill. Fountain-brush. No. 1,142,911; June 15; Gaz. vol. 215; p. 715.
- Riddle, Carlton, Akron, Ohio. Jacketed vessel. No. 1,133,821; Mar. 30; Gaz. vol. 212; p. 1567.
- Riddle, Carlton, Akron, Ohio. Device for locking closures. No. 1,137,085; Apr. 27; Gaz. vol. 213; p. 1184.
- Riddle, James E., Lima, Ohio. Sugar-bowl. No. 1,165,907; Dec. 28; Gaz. vol. 221; p. 1233.
- Riddle, Lawrence J., assignor of one-half to J. E. Tormey, Cheney, Wash. Grass-catcher. No. 1,134,489; Apr. 6; Gaz. vol. 213; p. 148.
- Riddle, Milford, Bloomfield, Ind. Gate-hinge. No. 1,129,731; Feb. 23; Gaz. vol. 211; p. 1194.
- Riddle, Zala, and N. Ashbaugh, Weed, Cal. Rule-holder. No. 1,125,718; Jan. 19; Gaz. vol. 210; p. 969.
- Ridenour, John H., Muskogee, Okla. Sign-post. No. 1,139,802; May 18; Gaz. vol. 214; p. 806.
- Rideout, Ruel B. (See Andros, Randall B., assignor.)
- Rider, George E., Kansas City, Mo. Baling-press. No. 1,143,318; June 15; Gaz. vol. 215; p. 860.
- Rider, Harrison S., Deodate, Pa. Sealing device for jars. No. 1,132,121; Mar. 16; Gaz. vol. 212; p. 866.
- Rider, Harry L., Oil City, Pa. Air-controlling valve. No. 1,131,420; Mar. 9; Gaz. vol. 212; p. 582.
- Rider, Rowland W., Logan, Utah. Lock-nut. No. 1,146,101; July 13; Gaz. vol. 216; p. 414.
- Ridge, Harry M., London, England. Ore roasting or drying furnace. No. 1,143,438; June 15; Gaz. vol. 215; p. 903.
- Ridgedale, Harry E., Winnipeg, Manitoba, Canada. Game apparatus. No. 1,131,735; Mar. 16; Gaz. vol. 212; p. 725.
- Ridgely, Charles T., Springfield, Ohio. Trimming-tool. No. 1,146,023; July 13; Gaz. vol. 216; p. 387.
- Ridgely Trimmer Company, The. (See Breckenridge, John G., assignor.)
- Ridgway, Elzie L., Excelsior Springs, Mo. Ironing-board. No. 1,150,226; Aug. 17; Gaz. vol. 217; p. 788.
- Ridgway, Thomas J., Wichita, Kans. Spring-bed. No. 1,130,541; Mar. 2; Gaz. vol. 212; p. 247.
- Ridgwell, James A., *et al.* (See Forbes, Joseph W., assignor.)
- Ridgwell, William H., *et al.* (See Forbes, Joseph W., assignor.)
- Ridley, Albert G. (See Ridley, James V., Sr., and A. G.)
- Ridley, Charles. (See Drummond and Ridley.)
- Ridley, James V., Sr., and A. G., Newport, Ark. Well-drilling tool. No. 1,166,153; Dec. 28; Gaz. vol. 221; p. 1322.
- Ridlon, John R., Chicago, Ill. Means for drawing gears, pulleys, &c., from shafts. No. 1,131,868; Mar. 16; Gaz. vol. 212; p. 775.

Alphabetical list of patentees—Continued.

- Riechert, Christoph H., Hamburg, Germany. Tie-on label for mail-bags, packets, and the like. No. 1,150,965; Aug. 24; Gaz. vol. 217; p. 1101.
- Riedel, Charles E., assignor to Detroit Scale Manufacturing Company, Detroit, Mich. Scale. No. 1,139,998; May 18; Gaz. vol. 214; p. 875.
- Riedel, Charles E., assignor to Detroit Scale Manufacturing Company, Detroit, Mich. Bearing for scales. No. 1,143,647; June 22; Gaz. vol. 215; p. 998.
- Riedel, Charles E., assignor to Detroit Scale Manufacturing Company, Detroit, Mich. Loop-bearing for scales. No. 1,147,751; July 27; Gaz. vol. 216; p. 1038.
- Rieder, Talmon H., Berlin, Ontario, assignor to Canadian Consolidated Rubber Company, Limited, Montreal, Canada. Vulcanizing apparatus. No. 1,138,791; May 11; Gaz. vol. 214; p. 414.
- Riedinger, Auguste T. (See Ethridge, Martin V., assignor.)
- Rieg, Swebert B., Meridian, Miss. Safety appliance for railway-cars. No. 1,143,648; June 22; Gaz. vol. 215; p. 998.
- Riegel, Samuel S., Scranton, Pa., assignor to Patterson-Allen Engineering Company. Tender-tank valve. No. 1,143,726; June 22; Gaz. vol. 215; p. 1023.
- Rieger, August R., Chicago, Ill. Safety-razor. No. 1,157,044; Oct. 19; Gaz. vol. 219; p. 656.
- Riehl, Justus, Baltimore, Md., assignor, by mesne assignments, to J. N. McFarland. Logotype-machine. No. 1,137,353; Apr. 27; Gaz. vol. 213; p. 1283.
- Rieke, Frederick W., Red Bud, Ill. Adjustable shock-absorber for vehicle-tongues. No. 1,143,783; June 22; Gaz. vol. 215; p. 1043.
- Riel, George, Manchester, N. H. Spraying device for shoe machinery. No. 1,146,449; July 13; Gaz. vol. 216; p. 538.
- Rielly, George, Santa Rosa, Cal. Railway-rail fastener. No. 1,143,997; June 22; Gaz. vol. 215; p. 1118.
- Ries, Elias E., New York, N. Y. Motor or velocipede skate. No. 1,150,227; Aug. 17; Gaz. vol. 217; p. 788.
- Ries, Elias E., New York, N. Y. Motor-skate. No. 1,150,966; Aug. 24; Gaz. vol. 217; p. 1101.
- Ries, Harry W., Collingswood, N. J., and L. B. Brown, Philadelphia, Pa. Tennis-racket. No. 1,132,214; Mar. 16; Gaz. vol. 212; p. 900.
- Ries, Harry W., Collingswood, N. J., L. B. Brown and F. C. Yockel, Philadelphia, Pa. Non-refillable bottle. No. 1,144,787; June 29; Gaz. vol. 215; p. 1421.
- Rieske, Otto G. (See Findley and Rieske.)
- Rietschal, Henry F. C., New York, N. Y. Spring-wheel. No. 1,146,654; July 13; Gaz. vol. 216; p. 608.
- Rietveld, Gideon, Knoxville, Iowa. Match-box. No. 1,165,908; Dec. 28; Gaz. vol. 221; p. 1233.
- Rietz, Elmer W., assignor to Chicago Car Heating Company, Chicago, Ill. Tubular, collapsible diaphragm for hose-couplings. No. 1,165,449; Dec. 28; Gaz. vol. 221; p. 1074.
- Rietz, Erich, Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Diacidylpyrocatechin-ortho-carboxylic-acid compound. No. 1,140,716; May 25; Gaz. vol. 214; p. 1159.
- Rietzel, Adolph F., Charlestown, R. I., assignor to Universal Electric Welding Company, New York, N. Y. Welding-piece for electrically-welded metal work. No. 1,128,515; Feb. 16; Gaz. vol. 211; p. 737.
- Rietzel, Adolph F., Charlestown, R. I., assignor to Universal Electric Welding Company, New York, N. Y. Metal fabric. No. 1,147,100; July 20; Gaz. vol. 216; p. 783.
- Rietzel, Adolph F., Charlestown, R. I., assignor to Universal Electric Welding Company, New York, N. Y. Joining metal by welded rivets. No. 1,154,808; Sept. 28; Gaz. vol. 218; p. 955.
- Rietzel, Adolph F., Charlestown, R. I., assignor to Universal Electric Welding Company, Long Island City, N. Y. Metal fabric. No. 1,162,402; Nov. 30; Gaz. vol. 220; p. 1580.
- Rietzel, Adolph F., Charlestown, R. I., and G. E. Barstow, Lynn, Mass., assignors, by mesne assignments, to Thomson Electric Welding Company. Electric metal-working apparatus. No. 1,133,578; Mar. 30; Gaz. vol. 212; p. 1479.
- Rietzel, Adolph F., Westerly, R. I., assignor to Lachman Manufacturing Company, New York, N. Y. Construction of paper containers. No. 1,138,150; May 4; Gaz. vol. 214; p. 151.
- Rietzsch, Alfred, administrator. (See Zahn, Robert.)
- Rife, Jacob W., San Diego, Cal. Bait-retaining attachment for fish-hooks. No. 1,150,386; Aug. 17; Gaz. vol. 217; p. 843.
- Rifer, John L. (See Farley and Rifer.)
- Rigall, John E., assignor to Dapronto Statuary Company, Chicago, Ill. Cross. No. 1,136,274; Apr. 20; Gaz. vol. 213; p. 857.
- Rigaud, Albert, Lille, France. Double-acting internal-combustion engine. No. 1,132,386; Mar. 16; Gaz. vol. 212; p. 963.
- Rigaumont, Victor A., Pittsburgh, Pa. Drafting implement. No. 1,145,922; July 13; Gaz. vol. 216; p. 350.
- Rigby, Clark F., Butler, Pa. Clutch and clutch-actuating means. No. 1,142,120; June 8; Gaz. vol. 215; p. 401.
- Rigby, Clark F., Butler, Pa. Oil-saver. No. 1,152,548; Sept. 7; Gaz. vol. 218; p. 62.
- Rigby, Clark F., Butler, Pa. Driving-gearing for well-drilling apparatus. No. 1,157,582; Oct. 19; Gaz. vol. 219; p. 842.
- Rigby, Clark F., Butler, Pa. Combination sand-pump and bailer. No. 1,158,292; Oct. 26; Gaz. vol. 219; p. 1156.
- Rigby, Clark F., Butler, Pa. Clamp for well-drilling cables. No. 1,159,096; Nov. 2; Gaz. vol. 220; p. 237.
- Rigby, Thomas. (See Testrup and Rigby.)
- Rigby, Thomas. (See Testrup, Adam, Rigby, and Andrew.)
- Rigby, Thomas. (See Testrup, Rigby, and Söderlund.)
- Rigby, Thomas, Dumfries, Scotland, assignor, by mesne assignments, to Wetcarbonizing Limited, London, England. Removal of moisture from peat or other substances. No. 1,124,954; Jan. 12; Gaz. vol. 210; p. 660.
- Rigby, Thomas, Dumfries, Scotland, assignor to Wetcarbonizing Limited, London, England. Working ammonia-recovery producer-gas plants. No. 1,141,829; June 1; Gaz. vol. 215; p. 259.
- Rigby, Thomas, Dumfries, Scotland, assignor to Wetcarbonizing Limited, London, England. Utilization of peat. No. 1,143,319; June 15; Gaz. vol. 215; p. 860.
- Rigby, Thomas, Dumfries, Scotland, assignor, by mesne assignments, to Wetcarbonizing Limited, London, England. Getting or excavating peat. No. 1,144,249; June 22; Gaz. vol. 215; p. 1208.
- Rigby, Thomas, Dumfries, Scotland, assignor to Wetcarbonizing Limited, London, England. Removing water from peat. No. 1,151,825; Aug. 31; Gaz. vol. 217; p. 1441.
- Rigby, Thomas, Dumfries, Scotland, and N. Testrup, assignors to Wetcarbonizing Limited, London, England. Utilization of peat. No. 1,144,250; June 22; Gaz. vol. 215; p. 1208.
- Rigney, Joseph, New York, N. Y. Resilient wheel. No. 1,165,824; Dec. 28; Gaz. vol. 221; p. 1204.
- Rigg, Gilbert, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Removal of cadmium from zinc ores. No. 1,129,904; Mar. 2; Gaz. vol. 212; p. 24.
- Rigg, Gilbert, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Removing cadmium from zinc ore. No. 1,161,885; Nov. 30; Gaz. vol. 220; p. 1400.
- Rigg, Gilbert, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Removing cadmium from zinc ore. No. 1,161,886; Nov. 30; Gaz. vol. 220; p. 1400.
- Riggins, Albert B., Trezevant, assignor of one-fourth to J. B. Longworth and one-fourth to W. H. Browning, Atwood, Tenn. Rail-tie and fastener. No. 1,123,923; Jan. 5; Gaz. vol. 210; p. 247.
- Riggs, Arthur J., The Dalles, Oreg. Weeder. No. 1,149,949; Aug. 10; Gaz. vol. 217; p. 627.
- Riggs, Edwin E., McKeesport, assignor of one-half to F. A. B. Riggs, East McKeesport, Pa. Washing-machine. No. 1,156,177; Oct. 12; Gaz. vol. 219; p. 322.
- Riggs, Eugene A., assignor of one-half to H. E. Roach, Terre Haute, Ind. Demountable rim. No. 1,148,860; Aug. 3; Gaz. vol. 217; p. 134.
- Riggs, Fannie A. B. (See Riggs, Edwin E., assignor.)
- Riggs, George R. (See Schaefer, Ferdinand A., assignor.)
- Riggs, J. A. (See Caldwell, William F., assignor.)
- Riggs, John A. (See Caldwell, William F., assignor.)
- Riggs, Thomas J., et al. (See Smith, Lewis H., assignor.)
- Richter, Walter L., Plainfield, N. J. Golf-club. No. 1,140,399; May 25; Gaz. vol. 214; p. 1050.
- Rightor, Albert C., Pittsburgh, Pa. Safety-heel. No. 1,134,228; Apr. 6; Gaz. vol. 213; p. 53.
- Riglander, Jacob W., New York, N. Y. Lens-holder for optical instruments. No. 1,129,523; Feb. 23; Gaz. vol. 211; p. 1125.
- Rigney, William D., assignor to Russell, Burdsall & Ward Bolt and Nut Company, Port Chester, N. Y. Nut-tapping machine. No. 1,147,267; July 20; Gaz. vol. 216; p. 841.
- Rihl, William H., and E. B. Ayres, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Tray for drying-machines. No. 1,126,280; Jan. 26; Gaz. vol. 210; p. 1202.
- Rihl, William H., and E. B. Ayres, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,161,732; Nov. 23; Gaz. vol. 220; p. 1300.
- Rikonen, John, assignor, by mesne assignments, to American Labeling Machine Company, Chicago, Ill. Label-affixing machine. No. 1,166,082; Dec. 28; Gaz. vol. 221; p. 1293.
- Rils, Marius P. P., Seattle, Wash. Purifying gas. No. 1,156,022; Oct. 5; Gaz. vol. 219; p. 241.
- Risager, Henrik E., Frederiksberg, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Wet grinding. No. 1,126,085; Jan. 26; Gaz. vol. 210; p. 1133.
- Rike, Berton L., assignor to The Germless Paper Cup Company, Dayton, Ohio. Holder for folding paper vessels. No. 1,139,579; May 18; Gaz. vol. 214; p. 727.
- Rike, Berton L., and J. R. Klin, assignors to The Germless Paper Cup Company, Dayton, Ohio. Holder for folding paper vessels. No. 1,139,580; May 18; Gaz. vol. 214; p. 727.

Alphabetical list of patentees—Continued.

- Riker, Andrew L., Bridgeport, Conn., assignor to The "Locomotive" Company of America, New York, N. Y. Regulating means for internal-combustion engines. No. 1,136,368; Apr. 20; Gaz. vol. 213; p. 892.
- Riker, Andrew L., Bridgeport, Conn., assignor to The "Locomotive" Company of America, New York, N. Y. Internal-combustion engine. No. 1,144,433; June 29; Gaz. vol. 215; p. 1300.
- Riker, Andrew L., Bridgeport, Conn., assignor to The Locomotive Company of America, New York, N. Y. Regulating means for internal-combustion engines. No. 1,149,597; Aug. 10; Gaz. vol. 217; p. 498.
- Riker, Andrew L., Bridgeport, Conn., assignor to The "Locomotive" Company of America, New York, N. Y. Internal-combustion engine. No. 1,156,038; Oct. 5; Gaz. vol. 219; p. 248.
- Riker, Andrew L., Bridgeport, Conn., assignor to The "Locomotive" Company of America, New York, N. Y. Internal-combustion engine. No. 1,164,549; Dec. 14; Gaz. vol. 221; p. 680.
- Rikert, George R., Clay Center, Kans. Wagon-hoist. No. 1,128,626; Feb. 16; Gaz. vol. 211; p. 775.
- Rikmar, John W., and J. D. Robinson, Hempstead, N. Y. Non-skid tire-shoe. No. 1,147,549; July 20; Gaz. vol. 216; p. 941.
- Riley, Daniel E. (See Skinner and Riley.)
- Riley, Earl L., Stanhope, Iowa. Stock-watering device. No. 1,151,125; Aug. 24; Gaz. vol. 217; p. 1155.
- Riley, Elmer L., et al. (See Coker, Willie P., assignor.)
- Riley, Frank, New York, N. Y. Turned shoe. No. 1,158,853; Nov. 2; Gaz. vol. 220; p. 157.
- Riley, Frank T., Kansas City, Mo. Radiator. No. 1,123,380; Jan. 5; Gaz. vol. 210; p. 63.
- Riley, Isaac H., Osceola, Iowa. Wheel-tire. No. 1,143,139; June 15; Gaz. vol. 215; p. 795.
- Riley, James, Parsons, Kans. Roundhouse equipment. No. 1,162,882; Dec. 7; Gaz. vol. 221; p. 51.
- Riley, James W. (See Seibert and Riley.)
- Riley, John W., Waverly, N. Y. Yoke for wrecking-crane. No. 1,126,282; Jan. 26; Gaz. vol. 210; p. 1202.
- Riley, Joseph J., assignor of one-half to W. K. Byars, San Diego, Cal. Steam generator and intake for internal-combustion engines. No. 1,162,807; Dec. 7; Gaz. vol. 221; p. 26.
- Riley, Katherine, Reedsburg, and G. Timlin, Cazenovia, Wis. Ironing-board. No. 1,159,995; Nov. 9; Gaz. vol. 220; p. 590.
- Riley, Lester S., assignor of one-half to A. L. Boggs, Boston, Mass. Bill or letter file. No. 1,130,631; Mar. 2; Gaz. vol. 212; p. 276.
- Riley, Lynn G. (See Hall and Riley.)
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System and method of control for electric motors. No. 1,155,164; Sept. 28; Gaz. vol. 218; p. 1079.
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller for electric motors. No. 1,157,904; Oct. 26; Gaz. vol. 219; p. 1020.
- Riley, Percy, Coventry, England. Internal-combustion engine. No. 1,148,052; July 27; Gaz. vol. 216; p. 1145.
- Riley, Robert S., Providence, R. I. Underfeed furnace. No. 1,148,625; Aug. 3; Gaz. vol. 217; p. 51.
- Riley, Robert S., Providence, R. I., assignor to American Engineering Company, Philadelphia, Pa. Furnace. No. 1,152,222; Aug. 31; Gaz. vol. 217; p. 1578.
- Riley, Robert S., Providence, R. I., assignor to American Engineering Company, Philadelphia, Pa. Furnace. No. 1,156,628; Oct. 12; Gaz. vol. 219; p. 479.
- Riley, Robert S., Providence, R. I., assignor to Sanford Riley Stoker Co. Ltd., Worcester, Mass. Underfeed furnace. No. 1,160,324; Nov. 16; Gaz. vol. 220; p. 757.
- Riley, Thomas L., East Cleveland, assignor to The Cleveland Dental Manufacturing Company, Cleveland, Ohio. Dental tray. No. 1,139,581; May 18; Gaz. vol. 214; p. 727.
- Riley, William, Youngstown, Ohio. Water-gage. No. 1,128,516; Feb. 16; Gaz. vol. 211; p. 737.
- Riley, William A., Wyoming, Pa. Coal-separating machine. No. 1,161,733; Nov. 23; Gaz. vol. 220; p. 1300.
- Riley, Willis L., St. Paul, Minn., assignor to Locomotive Superheater Company. Steam-superheater. No. 1,161,976; Nov. 30; Gaz. vol. 220; p. 1433.
- Rilling, John E., Milwaukee, Wis. Mattress. No. 1,153,644; Sept. 14; Gaz. vol. 218; p. 491.
- Rimalho, Emile, assignor to Compagnie Des Forges Et Acleries De La Marine Et D'Homecourt, Paris, France. Artillery-projectile. No. 1,154,437; Sept. 21; Gaz. vol. 218; p. 800.
- Rimbold, J. E. (See Taylor, Charles E., assignor.)
- Rimmer, James G., Dorchester, Mass. Vibration-absorbing motor-stand. No. 1,165,288; Dec. 21; Gaz. vol. 221; p. 978.
- Rimolox Tire Carrier Co. (See Harnishfeger, Alexander, assignor.)
- Rindal, Ole O., et al. (See Groh, Robert C., assignor.)
- Rindfleisch, Benjamin F. (See Smith and Rindfleisch.)
- Rindfleisch, Benjamin F., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Safety device. No. 1,132,318; Mar. 30; Gaz. vol. 212; p. 1385.
- Rindskopf, Henry P., New York, N. Y. Bathing-cap. No. 1,139,312; May 11; Gaz. vol. 214; p. 595.
- Rindskopf, Henry P., New York, N. Y. Protective apron. No. 1,149,950; Aug. 10; Gaz. vol. 217; p. 628.
- Rinebold, Arthur W., Risingsun, Ohio. Deep-well-drilling machinery. No. 1,156,178; Oct. 12; Gaz. vol. 219; p. 322.
- Rinehart, Bentley L., Philadelphia, Pa. Method and means for the generation of compound motive fluid. No. 1,142,271; June 8; Gaz. vol. 215; p. 453.
- Rinehart, David H., Palermo, Ill. Frame for velocipedes. No. 1,146,280; July 13; Gaz. vol. 216; p. 476.
- Rinehart, Stanton M., St. Louis, Mo. Refrigerator-box. No. 1,150,884; Aug. 24; Gaz. vol. 217; p. 1073.
- Ring, Albert N., assignor of one-fourth to F. A. Ring and one-fourth to O. W. Ring, Buhl, Idaho. Detachable metallic shoe-sole. No. 1,140,613; May 25; Gaz. vol. 214; p. 1126.
- Ring, Fred A., et al. (See Ring, Albert N., assignor.)
- Ring, Otto W., et al. (See Ring, Albert N., assignor.)
- Ring, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Overedge sewing-machine. No. 1,156,820; Oct. 12; Gaz. vol. 219; p. 545.
- Ring, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Scallop-stitching machine. No. 1,158,391; Oct. 26; Gaz. vol. 219; p. 1191.
- Ringer, Roy R., Pittsburgh, Pa. Key-holder. No. 1,161,529; Nov. 23; Gaz. vol. 220; p. 1232.
- Ringer, Søren P., Copenhagen, Denmark. Adjustable piece of furniture. No. 1,130,632; Mar. 2; Gaz. vol. 212; p. 276.
- Ringland, Albert, and F. H. Schoenfuss, assignors to Standard Roller Bearing Company, Philadelphia, Pa. Method of and apparatus for testing hardness. No. 1,125,912; Jan. 19; Gaz. vol. 210; p. 1036.
- Ringland, Edward O., and W. F. English, Petros, Tenn. Ironing-board. No. 1,131,008; Mar. 9; Gaz. vol. 212; p. 439.
- Rinkle, Henry E., assignor of one-half to O. E. Dietrich, Bremen, Ind. Brooder. No. 1,134,229; Apr. 6; Gaz. vol. 213; p. 54.
- Ringrose, Frederick, Bothwell, and T. Stevenson, Hamilton, Scotland, assignors of one-half to C. F. Lumb, London, England. Attachment for ropes for haulage and like purposes. No. 1,129,124; Feb. 23; Gaz. vol. 211; p. 987.
- Rings, Carl R., assignor of one-half to J. Petzelberger, Mount Vernon, Wash. Computing-machine. No. 1,158,854; Nov. 2; Gaz. vol. 220; p. 157.
- Ringström, Adolph F., Jr., Skien, Norway. Aeroplane. No. 1,165,805; Dec. 28; Gaz. vol. 221; p. 1198.
- Rinsche, Frank C., Detroit, Mich. Check-table and keyboard-cover for calculating-machines and the like. No. 1,159,339; Nov. 2; Gaz. vol. 220; p. 323.
- Rinsche, Frank C., St. Louis, Mo., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Calculating-machine. No. 1,138,792; May 11; Gaz. vol. 214; p. 415.
- Rinsche, Frank C., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,138,793; May 11; Gaz. vol. 214; p. 415.
- Riordan, Frederick J., assignor of one-half to L. Sugden, Lawrence, Mass. Amusement apparatus. No. 1,144,613; June 29; Gaz. vol. 215; p. 1359.
- Rioux, Arthur, Jamestown, N. D. Meat-saw. No. 1,152,976; Sept. 7; Gaz. vol. 218; p. 219.
- Ripbahn, Martin M., Waunakee, Wis. Vehicle-lamp. No. 1,139,725; May 18; Gaz. vol. 214; p. 779.
- Ripley, Daniel A., Connellsville, Pa. Receipt-cover. No. 1,146,816; July 20; Gaz. vol. 216; p. 685.
- Ripley, John W., Flushing, assignor to Monks-Ripley Pile Company, New York, N. Y. Pile construction. No. 1,124,955; Jan. 12; Gaz. vol. 210; p. 660.
- Ripley, Orlando A., Linden, Mich. Spring-seat. No. 1,149,292; Aug. 10; Gaz. vol. 217; p. 390.
- Ripley, Winfield, Breckenridge, Colo. Washing-machine. No. 1,136,835; Apr. 20; Gaz. vol. 213; p. 1058.
- Rippey, Clyde L. (See Holt and Rippey.)
- Rippin, William H., Leicester, England. Dough-molding machinery. No. 1,125,399; Jan. 19; Gaz. vol. 210; p. 856.
- Rippl, Charles H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Magnetically-operated device. No. 1,144,063; June 22; Gaz. vol. 215; p. 1141.
- Ripsch, Charles W. (See Whistler and Ripsch.)
- Risacher, Charles, and P. A. Hébert, Paris, France. Liquid-distributing device. No. 1,128,903; Feb. 16; Gaz. vol. 211; p. 873.
- Risberg, Fred A., Chicago, Ill. Stitching-machine. No. 1,140,531; May 25; Gaz. vol. 214; p. 1100.
- Risberg, Fred A., Chicago, Ill. Bookbinding-machine. No. 1,152,907; Sept. 7; Gaz. vol. 218; p. 194.
- Risberg, Johannes V. M. (See Johansson and Risberg.)
- Risberg, Johannes V. M., assignor to Aktiebolaget Baltic Södertälje, Sweden. Regulating means for centrifugal liquid-separators. No. 1,131,421; Mar. 9; Gaz. vol. 212; p. 582.
- Rishe, John L. (See Holzman and Rishe.)
- Risher, Ellis A., O'Neill, Nebr. Metallic basket. No. 1,157,045; Oct. 19; Gaz. vol. 219; p. 636.
- Risk, Loren, Waterloo, Iowa. Vehicle-wheel. No. 1,156,099; Oct. 12; Gaz. vol. 219; p. 296.

Alphabetical list of patentees—Continued.

- Risley, Frederick H., Seattle, Wash. Combined roller and ball bearing. No. 1,149,542; Aug. 10; Gaz. vol. 217; p. 478.
- Ritchay, Vincent O., and H. A. Trimmer, Coraopolis, Pa. Bone-burner. No. 1,160,657; Nov. 16; Gaz. vol. 220; p. 878.
- Ritchie, Foster, Acton, England. Telewriter apparatus. No. 1,123,381; Jan. 5; Gaz. vol. 210; p. 63.
- Ritchie, Jacob M., Michigan City, Ind. Propeller. No. 1,125,719; Jan. 19; Gaz. vol. 210; p. 969.
- Ritchie, William H., Patchogue, N. Y. Safety-valve for safes. No. 1,129,016; Feb. 16; Gaz. vol. 211; p. 913.
- Ritchie, William H. S., West Point, Ky. Corn-harvester. No. 1,152,660; Sept. 7; Gaz. vol. 218; p. 103.
- Riter-Conley Manufacturing Company. (See Carpenter, Henry A., assignor.)
- Riter-Conley Manufacturing Company. (See Carpenter and Barnum, assignors.)
- Riter-Conley Manufacturing Company. (See Carpenter and Hibbard, assignors.)
- Riter-Conley Manufacturing Company. (See Carpenter and Warner, assignors.)
- Riter-Conley Manufacturing Company. (See Carpenter, Hibbard, and Warner, assignors.)
- Riter-Conley Manufacturing Company. (See Hibbard, Robert L., assignor.)
- Riter-Conley Manufacturing Company. (See Koehl, Louis C., assignor.)
- Riter-Conley Manufacturing Company. (See Warner, Arthur W., assignor.)
- Rites, Francis M., deceased, Slaterville Springs; C. H. Gallagher, executor, assignor to P. C. Rites, Ithaca, N. Y., guardian for M. B. Rites. Apparatus for producing gaseous fuel. No. 1,144,788; June 29; Gaz. vol. 215; p. 1421.
- Rites, Francis M., deceased, Slaterville Springs; C. H. Gallagher, executor, assignor to P. C. Rites, Ithaca, N. Y., guardian for M. B. Rites. Producing gaseous fuel. No. 1,144,789; June 29; Gaz. vol. 215; p. 1421.
- Rites, Perie C. (See Rites, Francis M., assignor.)
- Ritschard, William, New York, N. Y., assignor to United Autographic Register Co., Chicago, Ill. Autographic register. No. 1,146,520; July 13; Gaz. vol. 216; p. 563.
- Ritson, Cuthbert, Blyth, England. Ship's deck-seat. No. 1,126,283; Jan. 26; Gaz. vol. 210; p. 1203.
- Rittberger, William, Granite City, Ill. Mill-roll lubricator. No. 1,150,885; Aug. 24; Gaz. vol. 217; p. 1073.
- Rittchen, Josef, San Francisco, Cal. Convertible vehicle. No. 1,163,460; Dec. 7; Gaz. vol. 221; p. 254.
- Rittenhouse, Irvin, assignor to H. F. Clark, Washington, D. C. Paper-fastener. No. 1,149,086; Aug. 3; Gaz. vol. 217; p. 212.
- Rittenhouse, Irvin, assignor to H. F. Clark, Washington, D. C. Paper-fastener. No. 1,156,179; Oct. 12; Gaz. vol. 219; p. 322.
- Ritter, Frank, Rochester, N. Y. Chair-base. No. 1,136,617; Apr. 20; Gaz. vol. 213; p. 980.
- Ritter, Frank, Rochester, N. Y. Dental chair. No. 1,137,903; May 4; Gaz. vol. 214; p. 52.
- Ritter, Frank, deceased, Rochester, N. Y.; A. R. Shumway and L. A. Ritter, executors. Dental chair. No. 1,159,996; Nov. 9; Gaz. vol. 220; p. 591.
- Ritter, Frederic W., Jr., et al. (See Casler, Benjamin G., assignor.)
- Ritter, George. (See Dupree, Ritter, and Heckman.)
- Ritter, Gilbert P. (See Bradford and Ritter.)
- Ritter, Henry J., Tippecanoe City, Ohio. Kitchen-cabinet. No. 1,146,521; July 13; Gaz. vol. 216; p. 563.
- Ritter, Isaac B. (See Peterson and Ritter.)
- Ritter, Jacob, New York, N. Y. Bag-fastener. No. 1,132,974; Mar. 23; Gaz. vol. 212; p. 1228.
- Ritter, Jacob, New York, N. Y. Construction of vessels. No. 1,160,763; Nov. 16; Gaz. vol. 220; p. 916.
- Ritter, Laura A., et al., executors. (See Ritter, Frank.)
- Ritter, Paul A. (See Daiber and Ritter.)
- Ritter, Paul A. (See Regenbogen and Ritter.)
- Ritter, Rudolph, assignor of one-half to W. B. and R. B. Gray, Chicago, Ill. Valve-gear for internal-combustion engines. No. 1,135,719; Apr. 13; Gaz. vol. 213; p. 623.
- Ritter, Theodore J., New York, assignor of one-half to H. Berg, Brooklyn, N. Y. Blower. No. 1,131,554; Mar. 9; Gaz. vol. 212; p. 627.
- Ritter, Theodore J., New York, assignor of one-half to H. Berg, Brooklyn, N. Y. Blower. No. 1,131,555; Mar. 9; Gaz. vol. 212; p. 627.
- Rittich, Frank, assignor of one-third to J. J. Dryer and one-third to B. W. R. Krout, Denver, Colo. Case for eggs. No. 1,151,046; Aug. 24; Gaz. vol. 217; p. 1129.
- Ritz, John G., New York, N. Y. Automobile engine-lock valve. No. 1,141,006; May 25; Gaz. vol. 214; p. 1263.
- Rivera, Abraham, Sonsonate, Salvador. Collapsible and portable toilet-seat cover. No. 1,156,629; Oct. 12; Gaz. vol. 219; p. 480.
- Rivers, Julian H., St. Louis, Mo., assignor to Universal Fibre Company, New York, N. Y. Receptacle. No. 1,129,017; Feb. 16; Gaz. vol. 211; p. 913.
- Rivers, Julian H., St. Louis, Mo., assignor, by mesne assignments, to Universal Fibre Company, New York, N. Y. Machine for molding liquid-borne particles. No. 1,138,891; May 11; Gaz. vol. 214; p. 449.
- Rivers, Julian H., Niotaze, Kans., assignor, by mesne assignments to Universal Fibre Company, New York, N. Y. Machine for molding and drying pulp. No. 1,161,160; Nov. 23; Gaz. vol. 220; p. 1100.
- Rivers, Thomas D., Valdosta, Ga. Cable-grip. No. 1,148,717; Aug. 3; Gaz. vol. 217; p. 84.
- Rives Adjustable Pedal Pad Co. (See Gaston, Harry W., assignor.)
- Rives, Edwin A., Greensboro, N. C. Combined gravity and fluid-pressure sander for locomotives. No. 1,165,024; Dec. 21; Gaz. vol. 221; p. 885.
- Rives, Edwin A., and H. B. Nabors, assignors of one-eighth to H. L. Hicks, Greensboro, N. C. Combined gravity and fluid-pressure sander for locomotives. No. 1,133,319; Mar. 30; Gaz. vol. 212; p. 1385.
- Rivett, Edward, Brighton, Mass., assignor, by mesne assignments, to Rivett Lathe and Grinder Company. Self-centering chuck. No. 1,135,397; Apr. 13; Gaz. vol. 213; p. 508.
- Rivett Lathe and Grinder Company. (See Rivett, Edward, assignor.)
- Riviere, Fernand E., assignor of forty-eight one-hundredths to L. Salmon, New Orleans, La. Emergency-shoe. No. 1,154,809; Sept. 28; Gaz. vol. 218; p. 955.
- Rivkin, Bert, et al. (See Sherman, Moses, assignor.)
- Rivoal, Charles M. A. (See Rollier, Marie L., assignor.)
- Rixen, Carl J., Berlin, Germany. Rotary pump with rotating abutment protruding into a circular groove. No. 1,157,806; Oct. 26; Gaz. vol. 219; p. 984.
- Rixson, Oscar C., New York, N. Y. Hinge. No. 1,125,177; Jan. 19; Gaz. vol. 210; p. 775.
- Rizer, Louis S., Springfield, Ohio. Motor. No. 1,140,532; May 25; Gaz. vol. 214; p. 1100.
- Rizor, Jacob H., Van Wert, Ohio. Jointer-beam. No. 1,150,064; Aug. 17; Gaz. vol. 217; p. 728.
- Rizzardi, Johann, Cassel, Germany. Manufacturing metal baskets. No. 1,144,668; June 29; Gaz. vol. 215; p. 1378.
- Ro Satow, Tokusabu, Los Angeles, Cal. Vegetable-peeler. No. 1,150,629; Aug. 17; Gaz. vol. 217; p. 928.
- Roach, Benjamin R., Vinton, Va. Train-stop. No. 1,147,550; July 20; Gaz. vol. 216; p. 941.
- Roach, Harry E. (See Riggs, Eugene A., assignor.)
- Roach, Harry F., St. Louis, Mo. Rigid-point frog. No. 1,129,905; Mar. 2; Gaz. vol. 212; p. 25.
- Roach, James C., assignor of one-half to J. P. Brickerton, New York, N. Y. Buckle. No. 1,145,797; July 6; Gaz. vol. 216; p. 288.
- Roach, John L., and L. L. Dawson, Childress, Tex. Blow-off cock. No. 1,161,763; Nov. 23; Gaz. vol. 220; p. 1311.
- Roach, Joseph B. (See Osmer and Roach.)
- Roach, Joseph C., assignor to Atlas Tack Company, Fairhaven, Mass. Heading device. No. 1,146,957; July 20; Gaz. vol. 216; p. 734.
- Roach, Michael J., assignor of one-half to J. Furlong, Anderson, Ind. Steam-joint. No. 1,135,720; Apr. 13; Gaz. vol. 213; p. 623.
- Roach, William. (See Faubel and Roach.)
- Roach, William A., Brooklyn, N. Y. Carpet-sweeper. No. 1,147,440; July 20; Gaz. vol. 216; p. 904.
- Roach, William F., Frostburg, Md. Automatic control of cut-off valves. No. 1,141,146; June 1; Gaz. vol. 215; p. 19.
- Roache, James E., New York, N. Y. Cigarette-rolling machine. No. 1,134,013; Mar. 30; Gaz. vol. 212; p. 1628.
- Roan, George, and H. Helmholtz, Chicago, Ill. Blow-off cock. No. 1,131,422; Mar. 9; Gaz. vol. 212; p. 533.
- Roat, Harry A., Jr., Harrisburg, Pa. Wardrobe. No. 1,137,534; Apr. 27; Gaz. vol. 213; p. 1345.
- Rob, Ferdinand F. (See Cooper and Rob.)
- Robaszewski, Mieczyslaw, South Bend, Ind. Removable heel-plate. No. 1,163,261; Dec. 7; Gaz. vol. 221; p. 185.
- Robb, Harold E., Florence, S. D. Lock. No. 1,130,337; Mar. 2; Gaz. vol. 212; p. 172.
- Robbins, Albert F., Waltham, Mass. Mainspring-winding device for watches. No. 1,161,887; Nov. 30; Gaz. vol. 220; p. 1401.
- Robbins, Albert F., Waltham, Mass. Holder for chucks. No. 1,161,888; Nov. 30; Gaz. vol. 220; p. 1401.
- Robbins, Alpheus B., Medford, Ore. Pruning-knife. No. 1,133,886; Mar. 30; Gaz. vol. 212; p. 1590.
- Robbins, Charles A., and W. F. Roth, Nevada, Ohio. Water-heater. No. 1,141,830; June 1; Gaz. vol. 215; p. 259.
- Robbins, Charles F. (See Putnam and Robbins.)
- Robbins, Charles F., Abington, assignor to Markem Machine Company, Boston, Mass. Type-adjusting device for printing-machines. No. 1,131,959; Mar. 16; Gaz. vol. 212; p. 807.
- Robbins, Charles L., Belfast, N. Y. Tie-tongs. No. 1,124,806; Jan. 12; Gaz. vol. 210; p. 608.
- Robbins, Cornelius D., et al. (See Lynch, Daniel E., assignor.)
- Robbins, Elmer, Portland, Ore. Rocking-chair. No. 1,132,387; Mar. 16; Gaz. vol. 212; p. 963.
- Robbins, Frank S. (See Crouch and Robbins.)
- Robbins, George B. (See Laughlin, George F., assignor.)
- Robbins, Harry P., Raleigh, N. C. Grease-cup. No. 1,125,400; Jan. 19; Gaz. vol. 210; p. 857.
- Robbins, Henry W., Medina, N. Y. Hinge-joint for windshields. No. 1,155,441; Oct. 5; Gaz. vol. 219; p. 41.

- Robbins, James, Westminster, London, England. Means for supporting rails, such as those of tramways. No. 1,128,048; Feb. 9; Gaz. vol. 211; p. 526.
- Robbins, James G. (See Davis and Robbins.)
- Robbins, Merrill, Adams, N. Y. Non-refillable bottle. No. 1,153,519; Sept. 14; Gaz. vol. 218; p. 448.
- Robbins, Meyer L., New York, N. Y. Making cuff-buttons. No. 1,155,837; Oct. 5; Gaz. vol. 219; p. 180.
- Robbins & Myers Company, The. (See Stuart, Harve R., assignor.)
- Robbins, Percy A., Timmins, Ontario, Canada. Apparatus for leaching ores and the like. No. 1,160,200; Nov. 16; Gaz. vol. 220; p. 715.
- Robbins, William A., Glen Ridge, N. J. Tire-mold. No. 1,156,180; Oct. 12; Gaz. vol. 219; p. 323.
- Robbins, William F., Scranton, Pa. Air-compressor. No. 1,147,646; July 20; Gaz. vol. 216; p. 976.
- Robby, William C. (See Rumely and Robby.)
- Roberg, Claes F., and A. A. Malmberg, Chicago, Ill. Mangle. No. 1,128,049; Feb. 9; Gaz. vol. 211; p. 526.
- Roberson, John J., Springville, Utah. Automatic sheep-dipper. No. 1,152,910; Sept. 7; Gaz. vol. 218; p. 195.
- Roberson, William E., Dickerson, Md. Vehicle-brake. No. 1,143,320; June 15; Gaz. vol. 215; p. 861.
- Roberson, William H. (See Bell, Roberson, and Hinderliter.)
- Robert, Arthur. (See Quintal, Domina, assignor.)
- Robert, Jean M. J., Paris, France. Device for holding and applying medicaments. No. 1,146,522; July 13; Gaz. vol. 216; p. 564.
- Robert N. Bassett Company, The. (See Bradshaw and Runk, assignors.)
- Robert N. Bassett Company, The. (See Holden, Walter A., assignor.)
- Robert N. Bassett Company, The. (See Stuart, Henry J., assignor.)
- Roberts, Alfred E., San Francisco, Cal. Apparatus for recovering hydrocarbon products from gas. No. 1,150,454; Aug. 17; Gaz. vol. 217; p. 866.
- Roberts, Alice A., New York, N. Y. Waist-line garment-supporter. No. 1,152,121; Aug. 31; Gaz. vol. 217; p. 1544.
- Roberts, Arthur, Evanston, Ill. Coke-oven. No. 1,132,685; Mar. 23; Gaz. vol. 212; p. 1121.
- Roberts, Benjamin F., Macon, Ga. Trench-filler. No. 1,152,049; Aug. 31; Gaz. vol. 217; p. 1518.
- Roberts, Charles A., Rensselaer, Ind. Top-box fastener. No. 1,130,338; Mar. 2; Gaz. vol. 212; p. 172.
- Roberts, Charles E., Oak Park, Ill. Power mechanism for washing-machines. No. 1,128,050; Feb. 9; Gaz. vol. 211; p. 527.
- Roberts, Clarence V., and J. W. Butler, assignors to Roberts & Mander Stove Company, Philadelphia, Pa. Gas-burner. No. 1,138,416; May 4; Gaz. vol. 214; p. 248.
- Roberts, Claude B., Belfast, Me. Grate. No. 1,138,976; May 11; Gaz. vol. 214; p. 479.
- Roberts, Claude B., Belfast, Me. Furnace-grate. No. 1,138,977; May 11; Gaz. vol. 214; p. 479.
- Roberts, Claude B., Belfast, Me. Furnace-grate. No. 1,138,978; May 11; Gaz. vol. 214; p. 480.
- Roberts, D. W. (See Davis, Hermann F., assignor.)
- Roberts, Daniel W., assignor to The Billings-Chapin Company, Cleveland, Ohio. Machine for dipping and drying articles. No. 1,140,068; May 18; Gaz. vol. 214; p. 901.
- Roberts, David, Grantham, England. Vaporizer for internal-combustion engines. No. 1,124,061; Jan. 5; Gaz. vol. 210; p. 293.
- Roberts, David and K., Grantham, Lincoln, England. Golf and like club. No. 1,135,621; Apr. 13; Gaz. vol. 215; p. 589.
- Roberts, David E., Fort Dodge, Iowa. Method and apparatus for producing plaster-board. No. 1,162,103; Nov. 30; Gaz. vol. 220; p. 1478.
- Roberts, Dorsey M., Preston, Miss. Lock. No. 1,148,626; Aug. 3; Gaz. vol. 217; p. 52.
- Roberts, Edmund S., Yonkers, N. Y., assignor, by mesne assignments, to Kelly-Springfield Tire Company, Jersey City, N. J. Antiskid device. No. 1,164,214; Dec. 14; Gaz. vol. 221; p. 561.
- Roberts, Edward F., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,138,892; May 11; Gaz. vol. 214; p. 450.
- Roberts, Edward P., East Cleveland, Ohio. Device for testing the density of smoke. No. 1,151,395; Aug. 24; Gaz. vol. 217; p. 1245.
- Roberts, Edwin S., assignor to International Lace Company, Gouverneur, N. Y. Lace fabric. No. 1,126,868; Feb. 2; Gaz. vol. 211; p. 73.
- Roberts, Eugene, assignor to Sugar Centrifugal Discharger Company, Salt Lake City, Utah. Screen for centrifugal baskets. No. 1,160,325; Nov. 16; Gaz. vol. 220; p. 758.
- Roberts, Eugene D., Tacoma, Wash. Clutch mechanism. No. 1,164,398; Dec. 14; Gaz. vol. 221; p. 627.
- Roberts, Florence D., Montclair, N. J., assignor to Weldon Roberts Rubber Company, Braser-brush. No. 1,161,250; Nov. 23; Gaz. vol. 220; p. 1134.
- Roberts, Frank P., Tacoma, Wash. Automobile-headlight-control mechanism. No. 1,139,230; May 11; Gaz. vol. 214; p. 568.
- Roberts, Franklin T., and F. W. Rapson, assignors to William Rapson & Sons, Bad Axe, Mich. Chock-block. No. 1,159,997; Nov. 9; Gaz. vol. 220; p. 591.
- Roberts, Fred T., Trenton, N. J. Inflated ball. No. 1,151,396; Aug. 24; Gaz. vol. 217; p. 1246.
- Roberts, Fred T., Trenton, N. J., assignor of fifty-one one-hundredths to R. H. Rosenfeld, Cleveland, Ohio. Making inflated rubber articles. No. 1,146,523; July 13; Gaz. vol. 216; p. 564.
- Roberts, Fred T., Trenton, N. J., assignor to The Aranan Company, Cleveland, Ohio. Apparatus for making hollow rubber articles. No. 1,157,420; Oct. 19; Gaz. vol. 219; p. 790.
- Roberts, Fred T., Trenton, N. J., assignor to The Paramount Rubber Company, Cleveland, Ohio. Shock-absorber. No. 1,159,799; Nov. 9; Gaz. vol. 220; p. 521.
- Roberts, Fredrick A., Dickey, N. D. Line-shaft journal-box. No. 1,152,550; Sept. 7; Gaz. vol. 218; p. 63.
- Roberts, Fredrick W., Lockport, N. Y. Stone-dressing tool and the like. No. 1,148,053; July 27; Gaz. vol. 216; p. 1145.
- Roberts, G. W. (See Lunsford, Blanton S., assignor.)
- Roberts, George C. (See Schmidt and Roberts.)
- Roberts, George G., Toledo, Ohio. Bottle-shipping case. No. 1,139,582; May 18; Gaz. vol. 214; p. 728.
- Roberts, George H., assignor to Pitman-Moore Company, Indianapolis, Ind. Final-bleeding knife. No. 1,150,387; Aug. 17; Gaz. vol. 217; p. 843.
- Roberts, George W., Willow Grove, Pa. Poultry coop or crate. No. 1,131,423; Mar. 9; Gaz. vol. 212; p. 583.
- Roberts, George W., Columbus, Ga. Rail-elevating apparatus. No. 1,144,251; June 22; Gaz. vol. 215; p. 1209.
- Roberts, George W., Vicksburg, Miss. Plant-protector. No. 1,145,266; July 6; Gaz. vol. 216; p. 102.
- Roberts, George W., assignor to Arrow Bottlers Company, Chicago, Ill. Water-lubricated bearing. No. 1,126,284; Jan. 26; Gaz. vol. 210; p. 1203.
- Roberts, Gus F., Fries, Va. Cleaner for spinning-machines. No. 1,129,312; Feb. 23; Gaz. vol. 211; p. 1051.
- Roberts, Henry A., Redfern, Sydney, New South Wales, Australia. Machine for shearing sheep skins and hides. No. 1,164,751; Dec. 21; Gaz. vol. 221; p. 790.
- Roberts, Henry P., Brooklyn, N. Y. Machine for shaving graphophone-blanks. No. 1,147,441; July 20; Gaz. vol. 216; p. 904.
- Roberts, Henry P., Boston, Mass. Milk-bottle protector. No. 1,151,656; Sept. 28; Gaz. vol. 218; p. 905.
- Roberts, Herbert. (See Giberson and Roberts.)
- Roberts, Howard W., Philadelphia, Pa. Rubber-stamp cabinet. No. 1,155,509; Oct. 5; Gaz. vol. 219; p. 65.
- Roberts, James F. G., Wellington, New Zealand. Portable or field cooking apparatus. No. 1,141,490; June 1; Gaz. vol. 215; p. 144.
- Roberts, James R., Cotter, Ark. Cuspidor. No. 1,130,107; Mar. 2; Gaz. vol. 212; p. 92.
- Roberts, John G., Dobbs Ferry, assignor to Western Electric Company, New York, N. Y. Automatic switching mechanism. No. 1,134,230; Apr. 6; Gaz. vol. 213; p. 54.
- Roberts, John G., Dobbs Ferry, assignor to Western Electric Company, New York, N. Y. Line-switch. No. 1,143,998; June 22; Gaz. vol. 215; p. 1118.
- Roberts, John G., Dobbs Ferry, assignor to Western Electric Company, New York, N. Y. Current-impulse transmitter. No. 1,148,800; Aug. 3; Gaz. vol. 217; p. 114.
- Roberts, John G., Dobbs Ferry, assignor to Western Electric Company, New York, N. Y. Automatic call-distributing system. No. 1,163,953; Dec. 14; Gaz. vol. 221; p. 472.
- Roberts, John H., Chicago, Ill. Thermostatic control of furnaces. No. 1,154,207; Sept. 21; Gaz. vol. 218; p. 720.
- Roberts, John W., A. P. Brewster, and B. Bryson, Passaic, N. J. Combined tension and stopping device for sewing-machines. No. 1,164,752; Dec. 21; Gaz. vol. 221; p. 791.
- Roberts, Jones H., and G. Rolnick, Houston, Tex. Protector for the crown of headwear. No. 1,139,803; May 18; Gaz. vol. 214; p. 806.
- Roberts, Kenneth. (See Roberts, David and K.)
- Roberts, Lewis A., Scranton, Pa. Bread-dough-mixing machine. No. 1,123,595; Jan. 5; Gaz. vol. 210; p. 135.
- Roberts, Lyman R., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,131,960; Mar. 16; Gaz. vol. 212; p. 807.
- Roberts, Lyman R., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,135,140; Apr. 13; Gaz. vol. 213; p. 422.
- Roberts, Lyman R., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Automatic type-writer actuator. No. 1,147,442; July 20; Gaz. vol. 216; p. 904.
- Roberts, Lyman R., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Machine for perforating master-sheets for type-writer operators. No. 1,160,101; Nov. 9; Gaz. vol. 220; p. 627.
- Roberts, Lyman R., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Automatic type-writer operator. No. 1,163,954; Dec. 14; Gaz. vol. 221; p. 472.

Alphabetical list of patentees—Continued.

- Roberts, Lyman R., and C. L. Davis, Detroit, Mich., assignors to Underwood Typewriter Company, New York, N. Y. Sheet feeding and delivering device for automatically-operated type-writing machines. No. 1,132,034; Mar. 16; Gaz. vol. 212; p. 835.
- Roberts & Mander Stove Company. (See Roberts and Butler, assignors.)
- Roberts, Marvin C., and H. J. Cullum, Franklin, Ill. Railway-spike. No. 1,158,293; Oct. 26; Gaz. vol. 219; p. 1156.
- Roberts Numbering Machine Company. (See Kern, Maximilian H., assignor.)
- Roberts, Park D. (See Roberts, Webster M. and P. D.)
- Roberts, Robert R., assignor to The Intercontinental Fiber & Paper Company, Washington D. C. Machine for treating fibrous plants. No. 1,132,122; Mar. 16; Gaz. vol. 212; p. 866.
- Roberts, Roscoe L. (See Finney, James J., assignor.)
- Roberts, Samuel H., Joliet, Ill. Emergency-calk. No. 1,128,627; Feb. 16; Gaz. vol. 211; p. 776.
- Roberts, Samuel S., Pittsburgh, Pa. Safety tool-retainer. No. 1,142,983; June 15; Gaz. vol. 213; p. 741.
- Roberts, Stephen S., Mexico, Mo. Wire-fence stretcher. No. 1,144,064; June 22; Gaz. vol. 213; p. 1141.
- Roberts, W. A., et al. (See Scheble, Eugene S., assignor.)
- Roberts, Walter E., Allentown, Pa. Hobnail. No. 1,124,330; Jan. 12; Gaz. vol. 210; p. 436.
- Roberts, Walter H., et al., executors. (See Palmer, Edward H.)
- Roberts, Webster M. and P. D., St. Joseph, Mo. Oven-filling mechanism for filling ovens with batter. No. 1,147,974; July 27; Gaz. vol. 216; p. 1116.
- Roberts, Webster M. and P. D., St. Joseph, Mo. Cone-making machine. No. 1,150,625; Aug. 17; Gaz. vol. 217; p. 926.
- Roberts, Wilbert R., South Bend, Ind. Trunk. No. 1,139,726; May 18; Gaz. vol. 214; p. 779.
- Roberts, William E., and F. A. Bullington, Portland, Oreg.; said Bullington assignor to said Roberts. Gas-engine. No. 1,163,858; Dec. 14; Gaz. vol. 221; p. 439.
- Roberts, William J., Pawtucket, R. I. Threading attachment for shuttles. No. 1,140,287; May 18; Gaz. vol. 214; p. 974.
- Roberts, William S. (See Keiswetter and Roberts.)
- Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Up-draw reversing mechanism for pulling-over machines. No. 1,128,723; Feb. 16; Gaz. vol. 211; p. 808.
- Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Sole fastening and trimming machine. No. 1,139,727; May 18; Gaz. vol. 214; p. 779.
- Roberts, William T. B., and J. H. Brown, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Variable-speed mechanism. No. 1,129,906; Mar. 2; Gaz. vol. 212; p. 25.
- Robertshaw, Frederick W., Pittsburgh, Pa. Tank-valve. No. 1,125,596; Jan. 19; Gaz. vol. 210; p. 923.
- Robertshaw, William D., Greenville, Miss. Device for killing boll-weevils. No. 1,159,097; Nov. 2; Gaz. vol. 220; p. 237.
- Robertson, Andrew R., Kingston, Glasgow, Scotland. Centrifugal machine. No. 1,124,807; Jan. 12; Gaz. vol. 210; p. 608.
- Robertson, Andrew R., Kingston, Glasgow, Scotland. Centrifugal machine. No. 1,127,284; Feb. 2; Gaz. vol. 211; p. 218.
- Robertson, Redford S., and W. M. White, Rocky Mount, Va. Shoe-holder. No. 1,163,038; Dec. 7; Gaz. vol. 221; p. 106.
- Robertson, Bessie L., Marlon Station, Md. Grease-cup. No. 1,163,461; Dec. 7; Gaz. vol. 221; p. 254.
- Robertson, Charles A. (See Hall, Ray E., assignor.)
- Robertson, Charles H., Peoria, Ill. Trolley-line hanger. No. 1,133,403; Mar. 30; Gaz. vol. 212; p. 1417.
- Robertson, Charles J., Taunton, Mass., assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Front sheet-guide for printing-presses. No. 1,161,251; Nov. 23; Gaz. vol. 220; p. 1134.
- Robertson, Edward A. (See Bennett and Robertson.)
- Robertson, Edwin, Fairmount, Ill. Hard-road construction. No. 1,127,518; Feb. 9; Gaz. vol. 211; p. 339.
- Robertson, Frank W., Orosi, Cal. Folding egg-rate. No. 1,134,557; Apr. 6; Gaz. vol. 213; p. 173.
- Robertson, Henry M. (See Gilman, George H., assignor.)
- Robertson, Henry M. (See Gilman and Robertson.)
- Robertson, Hugh H., New York, assignor to Continental Can Company, Incorporated, Syracuse, N. Y. Cap for bottles or jars. No. 1,132,975; Mar. 23; Gaz. vol. 212; p. 1228.
- Robertson, J. B. (See Hays, Edward W., assignor.)
- Robertson, James C., Cresson, Pa. Shoe-lace fastener. No. 1,134,014; Mar. 30; Gaz. vol. 212; p. 1629.
- Robertson, John. (See Smith and Robertson.)
- Robertson, John, Cincinnati, Ohio. Dust-separator. No. 1,136,836; Apr. 20; Gaz. vol. 213; p. 1058.
- Robertson, John D., De Ridder, La. Liquid-fuel burner. No. 1,128,188; Feb. 9; Gaz. vol. 211; p. 575.
- Robertson, John D., De Ridder, La. Oil-stove. No. 1,146,817; July 20; Gaz. vol. 216; p. 685.
- Robertson, John H., Platteville, Wis. Electric time-switch. No. 1,127,375; Feb. 2; Gaz. vol. 211; p. 247.
- Robertson, Levi L., Madison, Minn. Frictional gearing. No. 1,129,018; Feb. 16; Gaz. vol. 211; p. 913.
- Robertson, Nathaniel G., Scranton, Pa. Shovel-handle. No. 1,127,923; Feb. 9; Gaz. vol. 211; p. 482.
- Robertson, Nathaniel G., Scranton, Pa. Shovel or spade. No. 1,150,626; Aug. 17; Gaz. vol. 217; p. 927.
- Robertson, Richard E., Kelburn, New Zealand. Pipe-coupling. No. 1,154,937; Sept. 28; Gaz. vol. 218; p. 999.
- Robertson, Robert R., Chicago, Ill., assignor to American Sheet Metal Elbow Company, Wilmington, Del. Elbow-forming machine. No. 1,160,326; Nov. 16; Gaz. vol. 220; p. 758.
- Robertson, Robert R., La Grange, and C. G. Naylor, Chicago, Ill. Sectional mold. No. 1,136,439; Apr. 20; Gaz. vol. 213; p. 918.
- Robertson, Thomas W., Kansas City, Mo. Runner for wheeled vehicles. No. 1,123,800; Jan. 5; Gaz. vol. 210; p. 206.
- Robertson, William, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. No. 1,131,087; Mar. 9; Gaz. vol. 212; p. 466.
- Robertson, William J. (See Cranwell and Robertson.)
- Robertson, William V., New York, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,131,736; Mar. 16; Gaz. vol. 212; p. 725.
- Robeson Process Company. (See Hurt, Henry H., assignor.)
- Robleson, Harvey E., Freeport, Ill. Spring-actuated gate-closer. No. 1,135,324; Apr. 13; Gaz. vol. 213; p. 483.
- Robin, Jacob I., assignor to Strand Mantle and Machine Company, Limited, London, England. Adapter for Bunsen burners. No. 1,135,398; Apr. 13; Gaz. vol. 213; p. 508.
- Robinett, Allen A. (See White, Charles A., assignor.)
- Robnett, Henry, and C. W. Cody, Long Beach, Cal. Vent-pipe protector. No. 1,166,005; Dec. 28; Gaz. vol. 221; p. 1267.
- Robinette, James M., Williamson, W. Va. Game-cue. No. 1,152,908; Sept. 7; Gaz. vol. 218; p. 194.
- Robins, Charles R., Watertown, Wis. Rail-joint. No. 1,139,372; May 11; Gaz. vol. 214; p. 617.
- Robins, George, Jackson, Mich. Horseshoe heel-calk. No. 1,140,851; May 25; Gaz. vol. 214; p. 1207.
- Robins, George, Jackson, Mich. Horseshoe toe-calk. No. 1,144,790; June 29; Gaz. vol. 215; p. 1422.
- Robins, Thomas, New York, N. Y. Illuminated note-pad. No. 1,145,848; July 6; Gaz. vol. 216; p. 305.
- Robinson, Aaron J., Fremont, N. H. Starting-crank support. No. 1,161,248; Nov. 23; Gaz. vol. 220; p. 1133.
- Robinson, Albert E., assignor to The American Tool Works Company, Cincinnati, Ohio. Table-support. No. 1,125,401; Jan. 19; Gaz. vol. 210; p. 857.
- Robinson, Arthur D., New York, N. Y., and A. P. Bolter, Jr., East Orange, N. J. Collapsible tripod. No. 1,144,726; June 29; Gaz. vol. 215; p. 1400.
- Robinson, Arthur D., New York, N. Y., and A. P. Bolter, Jr., East Orange, N. J. Lamp-house for picture-projection apparatus. No. 1,160,764; Nov. 16; Gaz. vol. 220; p. 916.
- Robinson, Arthur H., Cleveland, Ohio. Hot-air conduit. No. 1,158,855; Nov. 2; Gaz. vol. 220; p. 158.
- Robinson, Arthur P., Atlanta, Ga., assignor to Insley Manufacturing Company, Indianapolis, Ind. Adjustable dumping-stop for drag-line excavators. No. 1,125,178; Jan. 19; Gaz. vol. 210; p. 775.
- Robinson, Arthur S. F., Beccles, England. Pliers and like gripping tool. No. 1,136,618; Apr. 20; Gaz. vol. 213; p. 981.
- Robinson, Arthur W., Montreal, Quebec, Canada. Floating discharge-pipe for hydraulic dredges. No. 1,143,321; June 15; Gaz. vol. 215; p. 861.
- Robinson, Charles G., Lewistown, Pa. Apparatus for molding. No. 1,146,736; July 13; Gaz. vol. 216; p. 635.
- Robinson, Charles G., Pittsburgh, Pa. Core-barrel for ingot-molds. No. 1,157,648; Oct. 19; Gaz. vol. 219; p. 864.
- Robinson, Charles G., and J. E. Schlieper, Pittsburgh, Pa. Method and apparatus for producing cast-steel car-wheels. No. 1,153,258; Sept. 14; Gaz. vol. 218; p. 353.
- Robinson, Charles O., deceased, Frederick, Md.; E. S. Robinson, administrator. Pasteurizer and cooler. No. 1,162,808; Dec. 7; Gaz. vol. 221; p. 27.
- Robinson, Chauncey E., G. W. Young, and J. B. F. Showalter, Springfield, Mo. Tire. No. 1,148,408; July 27; Gaz. vol. 216; p. 1271.
- Robinson, Cyrus. (See Towne and Robinson.)
- Robinson, Cyrus, Mount Vernon, N. Y., assignor to Metallurgical Engineering & Process Corporation. Agitator for ore treatment. No. 1,156,372; Oct. 12; Gaz. vol. 219; p. 389.
- Robinson, Delbert E., Enid, Okla. Electric switch. No. 1,129,812; Feb. 23; Gaz. vol. 211; p. 1222.
- Robinson, Dighton A., Seattle, Wash. Tunneling-machine. No. 1,146,281; July 13; Gaz. vol. 216; p. 477.
- Robinson, Dighton A., Seattle, Wash. Tunneling-machine. No. 1,163,859; Dec. 14; Gaz. vol. 221; p. 440.
- Robinson, Edgar B. (See Estes and Robinson.)

- Robinson, Edward K., Belmont, assignor to Ginn & Company, Boston, Mass. Bookbinding. No. 1,148,123; July 27; Gaz. vol. 216; p. 1172.
- Robinson, Edward P., Malden, Mass. Power valve-gear. No. 1,126,657; Jan. 26; Gaz. vol. 210; p. 1339.
- Robinson, Edward W. (See Gross, Charles W., assignor.)
- Robinson, Edward W., Savannah, Ga. Making sheet-metal hoops. No. 1,148,480; July 27; Gaz. vol. 216; p. 1295.
- Robinson, Edward W., assignor to International Barrel Company, Savannah, Ga. Barrel-making machine. No. 1,126,285; Jan. 26; Gaz. vol. 210; p. 1204.
- Robinson, Edward W., assignor to International Barrel Company, Savannah, Ga. Barrel. No. 1,130,434; Mar. 2; Gaz. vol. 212; p. 207.
- Robinson, Edward W., assignor to International Barrel Company, Savannah, Ga. Sheet-metal-hoop-forming machine. No. 1,158,294; Oct. 26; Gaz. vol. 219; p. 1156.
- Robinson, Effie S., administratrix. (See Robinson, Charles O.)
- Robinson, Eugene M., Chicago, Ill. Switch mechanism. No. 1,140,916; May 25; Gaz. vol. 214; p. 1232.
- Robinson, Francis H., Fort William, Ontario, Canada. Self-locking hinge. No. 1,151,397; Aug. 24; Gaz. vol. 217; p. 1246.
- Robinson, Francis J., Richmond Hill, Ontario, Canada. Positive friction-clutch. No. 1,151,616; Aug. 31; Gaz. vol. 217; p. 1369.
- Robinson, Frank, Bangor, Me. Fender. No. 1,145,705; July 6; Gaz. vol. 216; p. 256.
- Robinson, Frank, assignor of three-twentieths to J. B. Brachey and three-twentieths to H. Catlett, Louisville, Ky. Door-securer. No. 1,128,363; Feb. 16; Gaz. vol. 211; p. 685.
- Robinson, Fred W., Towanda, Pa. Hand-operated cold-punch. No. 1,142,627; June 8; Gaz. vol. 215; p. 578.
- Robinson, George A., Boston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton-blank. No. 1,140,288; May 18; Gaz. vol. 214; p. 975.
- Robinson, George E., Eugene, Oreg. Adjustable bow-socket and rest-clamp. No. 1,156,494; Oct. 12; Gaz. vol. 219; p. 433.
- Robinson, George L., and E. L. Wagner, New York, N. Y., assignors to The New York Sewage Disposal Company. Sewage-disposal apparatus. No. 1,154,129; Sept. 21; Gaz. vol. 218; p. 694.
- Robinson, George W., Camden, N. Y. Moccasin. No. 1,135,622; Apr. 13; Gaz. vol. 213; p. 589.
- Robinson, George W., Baltimore, and M. E. Harding, Odenton, Md. Coupling or splice for trolley-wires. No. 1,132,388; Mar. 16; Gaz. vol. 212; p. 964.
- Robinson, Henry, South Orange, N. J. Vegetable-paring machine. No. 1,161,413; Nov. 2; Gaz. vol. 220; p. 1192.
- Robinson, Herman P., Bristol, Tenn. Balance slide-valve. No. 1,140,188; May 18; Gaz. vol. 214; p. 942.
- Robinson, Hugh G., Oakland, Cal. Heel-plate. No. 1,124,062; Jan. 5; Gaz. vol. 210; p. 294.
- Robinson, James C., and J. Andrews, Denver, Colo. Nut-lock. No. 1,141,007; May 23; Gaz. vol. 214; p. 1263.
- Robinson, James E., Chicago, Ill. Radiator-jacket. No. 1,136,440; Apr. 20; Gaz. vol. 213; p. 918.
- Robinson, James E., Chicago, Ill. Temperature-indicator. No. 1,161,530; Nov. 23; Gaz. vol. 220; p. 1232.
- Robinson, Jay A., assignor of one-fourth to A. J. O'Brien and one-fourth to S. J. Boughton, Denver, Colo. Telephone-call register. No. 1,143,140; June 15; Gaz. vol. 215; p. 795.
- Robinson, John E., and W. J. Currie, Lauder, Manitoba, Canada. Grain-pickler. No. 1,155,618; Oct. 5; Gaz. vol. 219; p. 101.
- Robinson, John G. (See Hathaway, Claude P., assignor.)
- Robinson, John G., Melrose, Mass. Steam vacuum-pump. No. 1,138,893; May 11; Gaz. vol. 214; p. 450.
- Robinson, John J. (See McLaren, Donald, assignor.)
- Robinson, Joseph W., Toledo, Ohio. Cut-off means for metal-gathering heads. No. 1,132,618; Mar. 23; Gaz. vol. 212; p. 1096.
- Robinson, Joseph W., assignor to The Libbey Glass Company, Toledo, Ohio. Glass-working machine. No. 1,147,892; July 27; Gaz. vol. 216; p. 1087.
- Robinson, Josephine D. (See Rikmar and Robinson.)
- Robinson, Leslie H. (See Robinson, Mark H. and L. H.)
- Robinson, Lewis T., Schenectady, N. Y., assignor to General Electric Company. Maximum-demand indicator. No. 1,159,800; Nov. 9; Gaz. vol. 220; p. 522.
- Robinson, Lewis T., and J. R. Craighead, Schenectady, N. Y., assignors to General Electric Company. Transformer. No. 1,129,231; Feb. 23; Gaz. vol. 211; p. 1022.
- Robinson, Lewis T., and J. T. Dempster, Schenectady, N. Y., assignor to General Electric Company. Demand apparatus. No. 1,139,466; May 11; Gaz. vol. 214; p. 651.
- Robinson, Lige, Empire, Ala. Mining-machine. No. 1,124,528; Jan. 12; Gaz. vol. 210; p. 507.
- Robinson, Luther, Boston, assignor of one-half to C. H. Jennings, Winthrop, Mass. Stop-motion for worsted-spinning machines. No. 1,132,526; Mar. 16; Gaz. vol. 212; p. 1015.
- Robinson, Lydia M. B., Paoli, Pa. Knitted article of apparel. No. 1,151,126; Aug. 24; Gaz. vol. 217; p. 1155.
- Robinson, Mark H., Westminster, and L. H. Robinson, Chiswick, London, England. Hook. No. 1,148,192; July 27; Gaz. vol. 216; p. 1195.
- Robinson, Mary C., Asheville, N. C. Play-book. No. 1,155,959; Oct. 5; Gaz. vol. 219; p. 221.
- Robinson, Miner, Newton, Mass. Outlet-box. No. 1,140,917; May 25; Gaz. vol. 214; p. 1232.
- Robinson, Miner, Newton, Mass. Outlet-box. No. 1,143,322; June 15; Gaz. vol. 215; p. 861.
- Robinson, Oliver P., Blackburg, Okla. Folding chair. No. 1,162,104; Nov. 30; Gaz. vol. 220; p. 1479.
- Robinson, Orpheus P., Pittsburgh, Pa. Valve. No. 1,123,801; Jan. 5; Gaz. vol. 210; p. 206.
- Robinson, P. C., *et al.* (See Gamble, George R., assignor.)
- Robinson, Porter O., Concord Junction, Mass. Carrier. No. 1,147,443; July 20; Gaz. vol. 216; p. 905.
- Robinson, Ray F. (See Potter and Robinson.)
- Robinson, Richard H. M., assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Break-water shield for submarine boats. No. 1,146,958; July 20; Gaz. vol. 216; p. 734.
- Robinson, Richard T., Jr., Colorado Springs, Colo., assignor to Robinson & Robinson. Internal-combustion engine. No. 1,130,843; Mar. 9; Gaz. vol. 212; p. 383.
- Robinson, Robert J., Sr., Somerville, Tex. Bolt-lock. No. 1,132,732; Mar. 23; Gaz. vol. 212; p. 1138.
- Robinson and Robinson. (See Gorton, George, assignor.)
- Robinson & Robinson. (See Robinson, Richard T., Jr., assignor.)
- Robinson & Robinson. (See Winckler, Aage E., assignor.)
- Robinson, Roland H. (See Moinson and Robinson.)
- Robinson, Roy H., Chicago, Ill. Constructing building-frames and analogous frames. No. 1,135,721; Apr. 13; Gaz. vol. 213; p. 624.
- Robinson, Roy H., Chicago, Ill. Composite wall construction. No. 1,150,967; Aug. 24; Gaz. vol. 217; p. 1101.
- Robinson, Theodore D., Lockport, N. Y. Aeroplane. No. 1,148,861; Aug. 3; Gaz. vol. 217; p. 134.
- Robinson, Theodore D., assignor, by mesne assignments, to Amper Electric Co., Inc., Lockport, N. Y. Current-diverter. No. 1,140,317; May 18; Gaz. vol. 214; p. 985.
- Robinson, Wallace W., Portland, Me. Cushion-rim for pneumatic tires. No. 1,139,583; May 18; Gaz. vol. 214; p. 728.
- Robinson, William, Brooklyn, N. Y. Electric-railway system. No. 1,141,655; June 1; Gaz. vol. 215; p. 202.
- Robinson, William A., Old Fort, N. C. Ice-cream-cone filler. No. 1,153,172; Sept. 7; Gaz. vol. 218; p. 284.
- Robinson, William G., Fairfield, Iowa. Wire-fence clamp. No. 1,155,276; Sept. 28; Gaz. vol. 218; p. 1113.
- Robinson, William T., Ethel, W. Va. Safety appliance for steam-engines. No. 1,132,795; Mar. 23; Gaz. vol. 212; p. 1162.
- Robinson, William T., and C. D. Hylton, Ethel, W. Va. Trolley-hanger. No. 1,152,909; Sept. 7; Gaz. vol. 218; p. 194.
- Robinson, William V., Lansing, Mich. Polishing or grinding machine. No. 1,139,728; May 18; Gaz. vol. 214; p. 780.
- Robinson, Walter E., and C. E. Kaiser, Trenton, N. J., assignors to W. Heap & Sons, Grand Haven, Mich. Lever-operating mechanism. No. 1,165,344; Dec. 21; Gaz. vol. 221; p. 996.
- Robley, Benjamin B., Buffalo, N. Y. Mixer and primer. No. 1,151,047; Aug. 24; Gaz. vol. 217; p. 1129.
- Robnett, George W., Chicago, Ill. Pipe-joint. No. 1,135,325; Apr. 13; Gaz. vol. 213; p. 484.
- Robson, Charles, Philadelphia, Pa. Baker's-oven light. No. 1,154,339; Sept. 21; Gaz. vol. 218; p. 767.
- Robson, Clarence E., assignor of one-half to F. Sorensen, Philadelphia, Pa. Ball-bearing. No. 1,148,336; July 27; Gaz. vol. 216; p. 1247.
- Robson, John. (See Wilson and Robson.)
- Robson, John, Westminster, assignor to The Variable Speed Gear Limited, London, England. Variable-speed hydraulic transmission. No. 1,143,727; June 22; Gaz. vol. 215; p. 1024.
- Robson, John, assignor to The Variable Speed Gear Limited, Westminster, London, England. Variable-delivery pump or fluid-pressure motor. No. 1,147,893; July 27; Gaz. vol. 216; p. 1088.
- Robson, William H., assignor to Brigham-Hopkins Company, Baltimore, Md. Hydraulic press for making bats. No. 1,149,784; Aug. 10; Gaz. vol. 217; p. 567.
- Robt. H. Ingersoll & Bro. (See Eberhard, George F., assignor.)
- Robt. H. Ingersoll & Bro. (See Maloney, William T., assignor.)
- Roby, Edward B., Troy, assignor to M. L. Heald, Colonie, N. Y. Automatic folding-machine. No. 1,160,957; Nov. 16; Gaz. vol. 220; p. 983.
- Roby, John W., Hammon, Okla. Drill-bit clutch. No. 1,142,460; June 8; Gaz. vol. 215; p. 521.
- Roby, Luther E., Peoria, Ill. Covering-wheel. No. 1,150,537; Aug. 17; Gaz. vol. 217; p. 895.
- Rochau, Albert D., Fairfax, Okla. Retainer for ironing-board covers. No. 1,149,467; Aug. 10; Gaz. vol. 217; p. 452.
- Roche, John B., Grand Rapids, Mich. Electric machine. No. 1,125,913; Jan. 19; Gaz. vol. 210; p. 1036.
- Roche, Wesley C. (See Brophy and Roche.)

Alphabetical list of patentees—Continued.

- Roche, William H., and F. F. Pontius, Buffalo, N. Y. Door-alarm. No. 1,123,802; Jan. 5; Gaz. vol. 210; p. 206.
- Rochelle, Raymond C., Hubbard, Tex. Type-writer cover. No. 1,139,804; May 18; Gaz. vol. 214; p. 806.
- Rochester Carrier Company. (See Miller, James B., assignor.)
- Rochester Moneter Company, Inc. (See Straight, Bennett D., assignor.)
- Rochester Shellac Company. (See Schultz, Frederick A., assignor.)
- Rochmill, Henry, Selma, Ala. Lemon-squeezer. No. 1,136,837; Apr. 20; Gaz. vol. 213; p. 1059.
- Rochon, Achille, Paterson, N. J. Flying-machine. No. 1,145,388; July 6; Gaz. vol. 216; p. 144.
- Rochon, Philippe A., and A. Laurendeau, assignors of one-third to W. Rochon, Montreal, Quebec, Canada. Furnace. No. 1,165,450; Dec. 28; Gaz. vol. 221; p. 1074.
- Rochon, William. (See Rochon and Laurendeau, assignors.)
- Rock, Charles S. C., New York, N. Y. Flushing-valve. No. 1,163,462; Dec. 7; Gaz. vol. 221; p. 254.
- Rock, Charles S. C., New York, N. Y., assignor to Fruin & Walker Company. Drainage and vent fitting. No. 1,165,127; Dec. 21; Gaz. vol. 221; p. 924.
- Rock City Manufacturing Company, The. (See Barcus and Smith, assignors.)
- Rock, Edward, Laurel, Miss. Derailing device. No. 1,143,439; June 15; Gaz. vol. 215; p. 903.
- Rock Island Plow Company. (See Heylman, Edward M., assignor.)
- Rock Island Plow Company. (See Johnson, William E., assignor.)
- Rock Island Plow Company. (See Lechtenberg, Clemens, assignor.)
- Rock, John G., New Rochelle, assignor to F. W. Clark, Mount Vernon, N. Y. Shock-absorber. No. 1,143,068; June 15; Gaz. vol. 215; p. 771.
- Rock, John G., New Rochelle, assignor to Volute Spring Shock Absorber Company, Mount Vernon, N. Y. Shock-absorber. No. 1,143,069; June 15; Gaz. vol. 215; p. 772.
- Rock, John G., assignor to Volute Spring Shock Absorber Company, Mount Vernon, N. Y. Shock-absorber. No. 1,143,070; June 15; Gaz. vol. 215; p. 772.
- Rock, Patrick J., Homeville, Pa. Locomotive. No. 1,138,894; May 11; Gaz. vol. 214; p. 450.
- Rockaway Manufacturing Company, The. (See Brown, Silas B., assignor.)
- Rockford Chair & Furniture Company. (See Kjellgren, Samuel, assignor.)
- Rockman, Soren C., Philadelphia, Pa. Combined coal and gas range. No. 1,155,758; Oct. 5; Gaz. vol. 219; p. 149.
- Rockman, Soren C., Philadelphia, Pa. Steam-turbine. No. 1,157,727; Oct. 26; Gaz. vol. 219; p. 958.
- Rocksted, Martin, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Hydrocarbon-burner. No. 1,123,382; Jan. 5; Gaz. vol. 210; p. 64.
- Rocksted, Martin, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Torch. No. 1,134,231; Apr. 6; Gaz. vol. 213; p. 54.
- Rockstroh, Max, Klein Sedlitz, near Pirna, Germany. Guard for platen printing-presses. No. 1,135,399; Apr. 13; Gaz. vol. 213; p. 509.
- Rockstroh, Max, Klein Sedlitz, near Pirna, Germany. Platen printing-press. No. 1,137,790; May 4; Gaz. vol. 214; p. 24.
- Rockstroh, Max, Klein Sedlitz, near Pirna, Germany. Inking mechanism for platen printing-presses. No. 1,139,584; May 18; Gaz. vol. 214; p. 728.
- Rockstroh, Max, Klein Sedlitz, near Pirna, Germany. Pressure-regulator for platen printing-presses. No. 1,147,046; July 20; Gaz. vol. 216; p. 765.
- Rockstroh, Max, Klein Sedlitz, near Pirna, Germany. High-speed printing-press. No. 1,149,688; Aug. 10; Gaz. vol. 217; p. 534.
- Rockstroh, Max, Klein Sedlitz, near Pirna, Germany. Platen printing-press. No. 1,157,807; Oct. 26; Gaz. vol. 219; p. 985.
- Rockstroh, Max, Klein Sedlitz, near Pirna, Germany. Timing-gear for stamping-presses. No. 1,165,896; Dec. 28; Gaz. vol. 221; p. 1198.
- Rockton Moulding Sand Company. (See Manley, Edward B., assignor.)
- Rockwell, Albert F., assignor to The New Departure Manufacturing Company, Bristol, Conn. Machine-tool. No. 1,142,730; June 8; Gaz. vol. 215; p. 610.
- Rockwell, Annie C., Junction City, Kans. Folding table. No. 1,164,753; Dec. 21; Gaz. vol. 221; p. 791.
- Rockwell, Byrd C., Camden, Ark. Sectional screen. No. 1,126,086; Jan. 26; Gaz. vol. 210; p. 1133.
- Rockwell, Byrd C., Camden, Ark. Post. No. 1,131,737; Mar. 16; Gaz. vol. 212; p. 726.
- Rockwell, Clayton S. (See Foster and Rockwell.)
- Rockwood, Fred G., Mendota, Wis. Quick-acting wrench. No. 1,156,932; Oct. 19; Gaz. vol. 219; p. 615.
- Rockwood, George I., Worcester, Mass. Packing-ring for pipe-fittings. No. 1,133,320; Mar. 30; Gaz. vol. 212; p. 1386.
- Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
- Rockwood Sprinkler Company. (See Montgomery, William E., assignor.)
- Roddie, Eugene C. (See Nix and Roddie.)
- Rodebaugh, Ernest M., Long Bottom, Ohio. Acetylene-gas generator. No. 1,156,495; Oct. 12; Gaz. vol. 219; p. 433.
- Rodeck, Walter, New Durham, N. J. Clip. No. 1,153,135; Sept. 7; Gaz. vol. 218; p. 271.
- Rodecker, Charles W., assignor of one-third to J. P. McNeill and one-third to J. W. Holladay, Charleston, W. Va. Window-screen. No. 1,146,818; July 20; Gaz. vol. 216; p. 685.
- Rodehaver, Harry B. (See Crabbe and Rodehaver.)
- Roden, Ephraim H., Chicago, Ill. Mailing device. No. 1,148,927; Aug. 3; Gaz. vol. 217; p. 157.
- Roden, Ephraim H., Chicago, Ill. Wrapper. No. 1,148,928; Aug. 3; Gaz. vol. 217; p. 157.
- Roden, Ephraim H., Chicago, Ill. Wrapper for newspapers, periodicals, and the like. No. 1,148,929; Aug. 3; Gaz. vol. 217; p. 158.
- Roden, Ephraim H., Chicago, Ill. Mailing device. No. 1,148,930; Aug. 3; Gaz. vol. 217; p. 158.
- Rodenhausen, Leonard, assignor of one-half to F. T. Kessler, Philadelphia, Pa. Table mat, pad, &c. No. 1,123,383; Jan. 5; Gaz. vol. 210; p. 64.
- Roderick Lean Manufacturing Company, The. (See Warne, Frederick C., assignor.)
- Roderick, Roderick W., Akron, Ohio. Traffic-guide. No. 1,123,925; Jan. 5; Gaz. vol. 210; p. 248.
- Roderwald, Rudolf, Berlin, Germany. Packing for bearings. No. 1,152,223; Aug. 31; Gaz. vol. 217; p. 1578.
- Rodes, Tyree, Nashville, Tenn. Sawing tapered logs. No. 1,146,655; July 13; Gaz. vol. 216; p. 609.
- Rodger Ballast Car Company. (See Neikirk, John O., assignor.)
- Rodgers, Albert F., Golden, Colo. Grinding attachment for sewing-machines. No. 1,124,331; Jan. 12; Gaz. vol. 210; p. 436.
- Rodgers, Don E., Gorman, Tex. Soldering-iron. No. 1,135,050; Apr. 13; Gaz. vol. 213; p. 391.
- Rodgers, Edward H., El Paso, Tex. Process and machine for making bricks. No. 1,157,421; Oct. 19; Gaz. vol. 219; p. 790.
- Rodgers, James D., Georgetown, Ky. Farm-gate. No. 1,130,931; Mar. 9; Gaz. vol. 212; p. 414.
- Rodgers, Roy A., Seneca, Kans. assignor of one-third to J. H. Harrison, Falls City, Nebr. Combined mop and wringer. No. 1,142,628; June 8; Gaz. vol. 215; p. 578.
- Rodgers, William F., St. Louis, Mo. Automatic stair-door. No. 1,156,556; Oct. 12; Gaz. vol. 219; p. 454.
- Rodgers, William H., Philadelphia, Pa. Lock for automobiles. No. 1,127,519; Feb. 9; Gaz. vol. 211; p. 340.
- Rodier, Napoleon. (See Caron, Napoleon, assignor.)
- Rodiger, Walter G., Chicago, Ill. Stopper. No. 1,157,905; Oct. 26; Gaz. vol. 219; p. 1020.
- Rodiger, William, Chicago, Ill. Collapsible tube. No. 1,137,086; Apr. 27; Gaz. vol. 213; p. 1184.
- Rodkey, David B., Wilksburg, Pa. Glove-cleaning machine. No. 1,143,440; June 15; Gaz. vol. 215; p. 903.
- Rodler, Frederick W., Cincinnati, assignor to Victor Safe & Lock Co., Norwood, Ohio. Means for automatically closing vault-doors. No. 1,139,074; May 11; Gaz. vol. 214; p. 515.
- Rodliff, Frank E., Burlington, Vt. Leaf-turner. No. 1,130,108; Mar. 2; Gaz. vol. 212; p. 92.
- Rodman, George E. (See Horchler, William, assignor.)
- Rodney, William C. (See Hook and Rodney.)
- Rodriguez, Ramon, *et al.* (See Simao, Antonio P., assignor.)
- Rodriguez, Manuel R., and M. J. Schmitt, New York, N. Y. Carbureter. No. 1,164,215; Dec. 14; Gaz. vol. 221; p. 561.
- Rodriguez, Alcee J., White Castle, La. Vehicle-wheel. No. 1,128,724; Feb. 16; Gaz. vol. 211; p. 808.
- Rodriguez, Carlos E., Brooklyn, N. Y. Igniting cigarette or cigar. No. 1,142,529; June 8; Gaz. vol. 215; p. 545.
- Rodriguez, Francisco A., Montevideo, Uruguay. Constant-level-controlling dam for canal-locks. No. 1,158,295; Oct. 26; Gaz. vol. 219; p. 1157.
- Rody, Franz A., Newark, N. J. Treatment of feldspar, leucite, and the like. No. 1,151,533; Aug. 24; Gaz. vol. 217; p. 1293.
- Rody, Franz A., and H. M. Burkey, Newark, N. J. Treatment of feldspar, leucite, and the like. No. 1,151,498; Aug. 24; Gaz. vol. 217; p. 1281.
- Roe, Alfred, Andover, England. Wheel for motor and like vehicles. No. 1,127,285; Feb. 2; Gaz. vol. 211; p. 218.
- Roebel, Ludwig, Mannheim-Käferthal, Germany, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Electrical conductor. No. 1,144,252; June 22; Gaz. vol. 215; p. 1209.
- Roebuck, Alvah C., Woodstock, Ill. Type-writing machine. No. 1,146,959; July 20; Gaz. vol. 216; p. 735.
- Roebuck, Alvah C., Woodstock, Ill. Type-writer. No. 1,149,293; Aug. 10; Gaz. vol. 217; p. 391.
- Roedding, Edward B. (See Roedding, Gordon E. and E. B.)
- Roedding, Gordon E. and E. B., Detroit, Mich. Push-button. No. 1,135,926. Apr. 13; Gaz. vol. 213; p. 693.
- Roedels, George D., Palisade, N. J. Attachment for vacuum or suction cleaning apparatus. No. 1,145,033; July 6; Gaz. vol. 216; p. 40.

- Roeder, Paul T., Bloomington, Ill. Automatic catch. No. 1,140,852; May 25; Gaz. vol. 214; p. 1208.
- Roeidiger, Edmund C., Junction City, Kans. Safety-stirrup. No. 1,162,651; Nov. 30; Gaz. vol. 220; p. 1662.
- Roegner, George, Passaic, N. J. Poultry-roost. No. 1,125,597; Jan. 19; Gaz. vol. 210; p. 923.
- Roehn, Fredrick, assignor to The Scholl Manufacturing Company, Chicago, Ill. Arch-support. No. 1,164,316; Dec. 14; Gaz. vol. 221; p. 508.
- Roehrich, Frank N. (See Carroll and Roehrich.)
- Roehrich, Frank N., Jersey City, N. J., assignor to G. P. Carroll, Bridgeport, Conn. Ammonia-pipe union. No. 1,132,619; Mar. 23; Gaz. vol. 212; p. 1097.
- Roehrich, Frank N., Brooklyn, N. Y., assignor to The Brookfield Glass Company. Press for making glass insulators. No. 1,136,275; Apr. 20; Gaz. vol. 213; p. 858.
- Roehrig, Frederick. (See Armatange and Roehrig.)
- Roelke, Oscar, St. Louis, Mo. Bottle-top. No. 1,133,505; Mar. 30; Gaz. vol. 212; p. 1452.
- Roemer, Friedrich, Frankfurt-on-the-Main, Germany. Suction apparatus. No. 1,133,184; Mar. 23; Gaz. vol. 212; p. 1304.
- Roentgen Manufacturing Company. (See Snook and White, assignors.)
- Roesse, Frederick A. (See Mueller, Kurt L. E., assignor.)
- Roesen, Oscar, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Plate proving and trimming machine. No. 1,125,179; Jan. 19; Gaz. vol. 210; p. 776.
- Roesen, Oscar, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,132,215; Mar. 16; Gaz. vol. 212; p. 900.
- Roesen, Oscar, assignor to R. Hoe and Co., New York, N. Y. Web-printing machine. No. 1,155,619; Oct. 5; Gaz. vol. 219; p. 101.
- Roessler, Amanduz C., Mineola, N. Y. Igniter. No. 1,148,409; July 27; Gaz. vol. 216; p. 1271.
- Roessler and Hasslacher Chemical Company. (See Foersterling, Hans, assignor.)
- Roessler & Hasslacher Chemical Co., The. (See Foersterling and Halvorsen, assignors.)
- Roessler & Hasslacher Chemical Co., The. (See Foersterling and Philipp, assignors.)
- Roessler & Hasslacher Chemical Company. (See Kochendoerfer, Ernst, assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Schmidt, Friedrich L., assignor.)
- Roessler & Hasslacher Chemical Co., The. (See Weber, Friedrich W., assignor.)
- Roessler & Hasslacher Chemical Co., The. (See Zwingenberger, Otto K., assignor.)
- Roether, Jacob R., New York, N. Y. Smoking device. No. 1,133,404; Mar. 30; Gaz. vol. 212; p. 1417.
- Roever, Julius, New York, N. Y. Spring-bed. No. 1,126,869; Feb. 2; Gaz. vol. 211; p. 73.
- Roever, Julius, New York, N. Y. Spring-bed. No. 1,126,870; Feb. 2; Gaz. vol. 211; p. 73.
- Roffy, Joseph T., Chicago, Ill., assignor to Nernst Lamp Company. Lamp. No. 1,153,445; Sept. 14; Gaz. vol. 218; p. 421.
- Roffy, Joseph T., Pittsburgh, Pa., assignor to Nernst Lamp Company. Lamp and reflector. No. 1,153,446; Sept. 14; Gaz. vol. 218; p. 422.
- Roffy, Joseph T., New York, N. Y., assignor to A K-Ray Corporation. Projection-lantern. No. 1,159,418; Nov. 9; Gaz. vol. 220; p. 384.
- Roffy, Joseph T., New York, N. Y., assignor to A K-Ray Corporation. Projection-lantern. No. 1,159,419; Nov. 9; Gaz. vol. 220; p. 384.
- Rogalsky, Hyman R., Bradford, Pa. Safety device for cuff-buttions. No. 1,139,137; May 11; Gaz. vol. 214; p. 537.
- Röger, Karl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Means for changing magazines of multiple-magazine typographical composing and distributing machines. No. 1,123,803; Jan. 5; Gaz. vol. 210; p. 207.
- Röger, Karl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,135,400; Apr. 13; Gaz. vol. 213; p. 509.
- Röger, Karl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,021; Apr. 27; Gaz. vol. 213; p. 1161.
- Röger, Karl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,142,272; June 8; Gaz. vol. 215; p. 454.
- Röger, Karl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,151,617; Aug. 31; Gaz. vol. 217; p. 1369.
- Röger, Karl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,161,161; Nov. 23; Gaz. vol. 220; p. 1100.
- Röger, Karl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,165,128; Dec. 21; Gaz. vol. 221; p. 924.
- Rogers, Alfred, Milton, assignor to The Dececo Company, Boston, Mass. Pipe-casing. No. 1,131,961; Mar. 16; Gaz. vol. 212; p. 808.
- Rogers, Alson, Warren, Pa. Plumb-bob support. No. 1,141,977; June 8; Gaz. vol. 215; p. 348.
- Rogers, Andrew, Wellington, New Zealand. Gas-meter. No. 1,141,725; June 1; Gaz. vol. 215; p. 226.
- Rogers Automatic Lens Company, The. (See Rogers, Walter K., assignor.)
- Rogers, Charles E., Denver, Colo. Fire-alarm. No. 1,125,720; Jan. 19; Gaz. vol. 210; p. 970.
- Rogers, Charles S., assignor to The Process Engineering Company, Philadelphia, Pa. Pump. No. 1,159,868; Nov. 9; Gaz. vol. 220; p. 546.
- Rogers, Edward, San Francisco, Cal. Draftsman's triangle. No. 1,131,962; Mar. 16; Gaz. vol. 212; p. 808.
- Rogers, Harrison W. (See Ebeling, Charles W., assignor.)
- Rogers, Harrison W., et al. (See Kaufman, Eugene H., assignor.)
- Rogers, Harvey, Muncie, Ind. Window-shade and lace-curtain holder. No. 1,162,652; Nov. 30; Gaz. vol. 220; p. 1662.
- Rogers, Henry, Birmingham, Ala. Bale-tie trimming and buckle-attaching machine. No. 1,128,517; Feb. 16; Gaz. vol. 211; p. 738.
- Rogers, Henry L., Fort Fairfield, Me. Ash-pan and apron for furnaces. No. 1,158,296; Oct. 26; Gaz. vol. 219; p. 1157.
- Rogers, Henry J., Lowell, assignor to Saco-Lowell Shops, Boston, Mass. Stripping device for feeders. No. 1,146,282; July 13; Gaz. vol. 216; p. 477.
- Rogers, Herbert L. (See Myers and Rogers.)
- Rogers, Robert C., New York, N. Y. Buffer. No. 1,163,463; Dec. 7; Gaz. vol. 221; p. 255.
- Rogers, James O., McMinnville, Ore. Combined grinding-mill and press. No. 1,146,656; July 13; Gaz. vol. 216; p. 609.
- Rogers, John, Madison, Wis. Machine for making concrete fence-posts. No. 1,126,571; Jan. 26; Gaz. vol. 210; p. 1309.
- Rogers, John, Madison, Wis. Machine for manufacturing concrete reinforcements. No. 1,126,572; Jan. 26; Gaz. vol. 210; p. 1310.
- Rogers, Joesire S., Laurelhill, Fla. Padlock. No. 1,153,405; Sept. 14; Gaz. vol. 218; p. 407.
- Rogers, John, assignor to National Concrete Machinery Co., Madison, Wis. Reinforcement for concrete fence-posts. No. 1,126,570; Jan. 26; Gaz. vol. 210; p. 1308.
- Rogers, John R., Brooklyn, N. Y. Internal-combustion engine. No. 1,127,810; Feb. 9; Gaz. vol. 211; p. 443.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Type or matrix. No. 1,131,424; Mar. 9; Gaz. vol. 212; p. 583.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,131,425; Mar. 9; Gaz. vol. 212; p. 584.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,022; Apr. 27; Gaz. vol. 213; p. 1162.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting-machine. No. 1,137,023; Apr. 27; Gaz. vol. 213; p. 1162.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,024; Apr. 27; Gaz. vol. 213; p. 1162.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,904; May 4; Gaz. vol. 214; p. 63.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,137,905; May 4; Gaz. vol. 214; p. 63.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,151,618; Aug. 31; Gaz. vol. 217; p. 1370.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Type or matrix. No. 1,151,619; Aug. 31; Gaz. vol. 217; p. 1370.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,151,904; Aug. 31; Gaz. vol. 217; p. 1469.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,154,057; Sept. 21; Gaz. vol. 218; p. 670.
- Rogers, John R., New York, N. Y. Clutch. No. 1,132,216; Mar. 16; Gaz. vol. 212; p. 901.
- Rogers, John T., assignor of one-third to C. F. Baker and one-third to A. L. Paugh, Chicago, Ill. Automobile-lock. No. 1,164,399; Dec. 14; Gaz. vol. 221; p. 628.
- Rogers, Judson F., Kansas City, Mo. Cultivator. No. 1,149,785; Aug. 10; Gaz. vol. 217; p. 567.
- Rogers, Lee R., Chicago, Ill. Rectifier. No. 1,154,058; Sept. 21; Gaz. vol. 218; p. 670.
- Rogers, Louis, Albion, Pa. Punch-center indicator. No. 1,166,261; Dec. 28; Gaz. vol. 221; p. 1363.
- Rogers, Manly C., Weehawken, N. J. Oil filtering or purifying device. No. 1,148,990; Aug. 3; Gaz. vol. 217; p. 179.
- Rogers, Ralph F., Chicago, Ill. Motor-cycle side-car frame. No. 1,140,069; May 18; Gaz. vol. 214; p. 901.
- Rogers, Ralph F., Chicago, Ill. Wheel-fender. No. 1,143,071; June 15; Gaz. vol. 215; p. 773.
- Rogers, Ralph F., Omaha, Nebr. Frictional gearing for motor-vehicles. No. 1,147,268; July 20; Gaz. vol. 216; p. 842.
- Rogers, Robert W. (See Kaye and Rogers.)
- Rogers, Russell N., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Addressing-machine. No. 1,125,180; Jan. 19; Gaz. vol. 210; p. 776.

Alphabetical list of patentees—Continued.

- Rogers, Russell N., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Paper-feeder. No. 1,153,339; Sept. 14; Gaz. vol. 218; p. 382.
- Rogers-Shear Company, The. (See Perry, Eugene L., assignor.)
- Rogers, Summervell B. (See Foster, Walter, assignor.)
- Rogers, Thomas H., et al. (See Smith, George Z., assignor.)
- Rogers, Walter K., assignor to The Rogers Automatic Lens Company, Toledo, Ohio. Lens-grinding machine. No. 1,140,483; May 25; Gaz. vol. 214; p. 1081.
- Rogers, William A., and M. Parker, Washington, D. C., assignors to W. G. Cornell Company, New York, N. Y. Supervisory system for sprinkler-valves. No. 1,153,573; Sept. 14; Gaz. vol. 218; p. 469.
- Rogers, William B., Olean, N. Y. Hydrocarbon-burner. No. 1,160,765; Nov. 16; Gaz. vol. 220; p. 916.
- Rogers, William F. (See Blake, Clinton F., assignor.)
- Rogers, William G. (See Castle and Rogers.)
- Rogers, William J., Seattle, Wash. Diving apparatus. No. 1,139,805; May 18; Gaz. vol. 214; p. 806.
- Rogge, John, Payette, Idaho. Machine for sizing fruit and vegetables. No. 1,146,102; July 13; Gaz. vol. 216; p. 414.
- Roggenmoser, Adolf, Zurich, Switzerland. Machine for cutting bones. No. 1,132,976; Mar. 23; Gaz. vol. 212; p. 1229.
- Rogier, Louis E. R., assignor to Societe Anonyme Des Usines A. E. Decontille, Paris, France. Cigarette-machine. No. 1,164,118; Dec. 14; Gaz. vol. 221; p. 530.
- Rognlie, Severin J. (See Neshime and Rognlie.)
- Rohan, John E., Racine, Wis. Adjustable thermometer-holder for incubators, sprouting-trays, drawers, and other receptacles. No. 1,162,653; Nov. 30; Gaz. vol. 220; p. 1662.
- Rohde, William, Lincoln, Nebr. Telephonic apparatus. No. 1,153,572; Sept. 14; Gaz. vol. 218; p. 468.
- Rohland, Curt J., New York, N. Y., assignor, by mesne assignments, to Hobbs Manufacturing Company. Automatic vending-machine. No. 1,128,518; Feb. 16; Gaz. vol. 211; p. 738.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Brake-beam. No. 1,140,614; May 25; Gaz. vol. 214; p. 1126.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Brake-beam. No. 1,140,615; May 25; Gaz. vol. 214; p. 1127.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Friction draft-gear. No. 1,141,093; May 25; Gaz. vol. 214; p. 1291.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Friction draft-gear. No. 1,141,094; May 25; Gaz. vol. 214; p. 1292.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Door-operating mechanism. No. 1,149,219; Aug. 10; Gaz. vol. 217; p. 362.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Transom draft-gear. No. 1,149,220; Aug. 10; Gaz. vol. 217; p. 363.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Car-underframe. No. 1,164,019; Dec. 14; Gaz. vol. 221; p. 495.
- Rohlfing, John M., St. Louis, Mo., assignor, by mesne assignments, to Chicago Railway Equipment Company. Brake-beam strut. No. 1,140,616; May 25; Gaz. vol. 214; p. 1127.
- Rohm, William, Appleton, Wis. Building construction. No. 1,125,721; Jan. 19; Gaz. vol. 210; p. 970.
- Rohmer, Gabriel E., assignor to J. F. Booraem, New York, N. Y. Spring-board holder. No. 1,126,087; Jan. 26; Gaz. vol. 210; p. 1134.
- Rohn, John R., Pittsburgh, assignor to Federal Toy Pistol Company, Homestead, Pa. Toy pistol. No. 1,144,791; June 29; Gaz. vol. 215; p. 1422.
- Rohne, Even J., Minneapolis, Minn. Electric heating element. No. 1,133,579; Mar. 30; Gaz. vol. 212; p. 1480.
- Rohne, Even J., assignor of one-half to S. N. Sorensen, Minneapolis, Minn. Vibrator. No. 1,124,808; Jan. 12; Gaz. vol. 210; p. 609.
- Rohr, Joseph L., Lewiston, Me. Car-door lock. No. 1,158,720; Nov. 2; Gaz. vol. 220; p. 108.
- Rohr, Moritz von, assignor to Firm of C. Zeiss, Jena, Germany. Optical system. No. 1,143,667; June 22; Gaz. vol. 215; p. 1004.
- Rohrbach, Gabriel, San Francisco, Cal. Detachable and adjustable brush-handle. No. 1,158,856; Nov. 2; Gaz. vol. 220; p. 158.
- Rohrer, Sylvester M., Manitowoc, Wis. Life-saving raft. No. 1,166,080; Dec. 28; Gaz. vol. 221; p. 1292.
- Rohrer, William L., et al. (See Wills, William, assignor.)
- Rohwer, Franz, Neumünster, Germany. Sausage-filling machine. No. 1,164,400; Dec. 14; Gaz. vol. 221; p. 628.
- Roitzheim, Alexander, Duisburg, Germany. Process and apparatus for removing drossy residues from vertical muffles in the extraction of zinc. No. 1,144,066; June 22; Gaz. vol. 215; p. 1142.
- Roitzheim, Alexander, Duisburg-Ruhrort, Germany. Arrangement for preventing the formation of smoke in the production of zinc. No. 1,152,050; Aug. 31; Gaz. vol. 217; p. 1519.
- Roitzheim, Alexander, and W. Remy, Duisburg-Ruhrort, Germany. Mechanism for removing residues from vertical retorts. No. 1,144,065; June 22; Gaz. vol. 215; p. 1141.
- Rojahn, Frederick C., Altoona, Pa. Safety-gate for elevators. No. 1,131,963; Mar. 16; Gaz. vol. 212; p. 809.
- Rojas, Juan J., San Francisco, Cal. Window. No. 1,147,188; July 20; Gaz. vol. 216; p. 814.
- Rojekoff, Alexander, Biejitza, Russia. Apparatus for multiple-layer steel-casting. No. 1,148,801; Aug. 3; Gaz. vol. 217; p. 114.
- Rojekoff, Alexander, Biejitza, Russia. Mold for producing composite metal castings. No. 1,151,398; Aug. 24; Gaz. vol. 217; p. 1246.
- Rojekoff, Alexander, Biejitza, Russia. Mold for composite steel castings. No. 1,155,510; Oct. 5; Gaz. vol. 219; p. 66.
- Roland, Arthur M., San Francisco, Cal. Vehicle-lamp. No. 1,159,274; Nov. 2; Gaz. vol. 220; p. 300.
- Roland, Arthur M., San Francisco, Cal. Dispensing device. No. 1,159,275; Nov. 2; Gaz. vol. 220; p. 300.
- Roland, Léon, Liege, Belgium. Grenade. No. 1,126,871; Feb. 2; Gaz. vol. 211; p. 74.
- Roley, Matthew. (See Macfarlane and Roley.)
- Rolf, Joseph G., Covington, Ky. Rim for vehicle-tires. No. 1,162,254; Nov. 30; Gaz. vol. 220; p. 1530.
- Rolfe, A. O. (See Shaffer and Reedy, assignors.)
- Rolfe, Orrin M., Lowell, Mass. Heel-cushion for boots and shoes. No. 1,154,340; Sept. 21; Gaz. vol. 218; p. 767.
- Rolfs, Robert H., West Bend, Wis. Pocket-book. No. 1,146,524; July 13; Gaz. vol. 216; p. 564.
- Rolier, Paul V., Paris, France. Paper-feeder. No. 1,130,109; Mar. 2; Gaz. vol. 212; p. 93.
- Rolle, Emile, Frontenac, Kans. Spark-plug attachment. No. 1,131,556; Mar. 9; Gaz. vol. 212; p. 628.
- Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Circuit-controlling apparatus. No. 1,124,809; Jan. 12; Gaz. vol. 210; p. 609.
- Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Alternating-current-measuring instrument. No. 1,126,286; Jan. 26; Gaz. vol. 210; p. 1204.
- Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Polarity-indicator. No. 1,130,633; Mar. 2; Gaz. vol. 212; p. 277.
- Roller Smith Co. (See Scheeffler, Gustave A., assignor.)
- Roller-Smith Company. (See Badeau, Charles C., assignor.)
- Roller-Smith Company. (See Roller, Frank W., assignor.)
- Rollier, Marie L., Vannes, assignor to C. M. A. Rivoal, Paris, France. Micrometer-gage. No. 1,158,721; Nov. 2; Gaz. vol. 220; p. 108.
- Rollin, Eugene H. (See Hampe and Rollin.)
- Rollins, Fred C. (See Frye and Rollins.)
- Rollins, Jarrot L., Colfax, Cal. Jar-closure. No. 1,124,173; Jan. 5; Gaz. vol. 210; p. 332.
- Rollins, Marcellus E., Santa Cruz, Cal. Cow-tail holder. No. 1,144,727; June 29; Gaz. vol. 215; p. 1400.
- Rollman, Michael A., Mount Joy, Pa. Food-chopper. No. 1,132,035; Mar. 16; Gaz. vol. 212; p. 835.
- Rolpiller, Henry G. (See Dech, Peter, assignor.)
- Rolnick, Gus. (See Roberts and Rolnick.)
- Rolstad, Martin O., Sisseton, S. D. Harness. No. 1,155,165; Sept. 28; Gaz. vol. 218; p. 1079.
- Rolston, Samuel F., Edgerton, Mo. Fire-escape. No. 1,145,923; July 13; Gaz. vol. 216; p. 351.
- Romanek, Josef, Pittsburg, Pa. Hill-climbing device. No. 1,154,657; Sept. 28; Gaz. vol. 218; p. 905.
- Romanek, Joseph, et al. (See Gepack, Paul, assignor.)
- Romano, Samuel L., Vancouver, British Columbia, Canada. Forming-mold for sewer-conduits. No. 1,143,862; June 22; Gaz. vol. 215; p. 1070.
- Romare, Oscar E., Williams Bay, Wis. Camera. No. 1,165,129; Dec. 21; Gaz. vol. 221; p. 925.
- Rombacher Hüttenwerke. (See Bronn, Jegor I., assignor.)
- Rombacher Hüttenwerke. (See Bronn and Schemann, assignors.)
- Romberg, Paul, Leipzig, Germany. Barrel-adjusting apparatus. No. 1,137,168; Apr. 27; Gaz. vol. 213; p. 1214.
- Romberger, Floyd T., Elizabethtown, Pa. Internal-combustion engine. No. 1,152,763; Sept. 7; Gaz. vol. 218; p. 140.
- Romberger, Harry R., Chicago, Ill. Car-seal. No. 1,144,792; June 29; Gaz. vol. 215; p. 1422.
- Rome Metallic Bedstead Company et al. (See Blood, Burr B., assignor.)
- Romer, Charles H. (See Johnston and Romer.)
- Romero, Amado L. (See Lopez and Romero.)
- Romick, Landis. (See McFeely and Romick.)
- Romig, John S., Altoona, Pa. Track instrument. No. 1,155,373; Oct. 5; Gaz. vol. 219; p. 17.
- Romito, Nicola, Newell, Pa. Hat-pin-point protector. No. 1,139,373; May 11; Gaz. vol. 214; p. 617.
- Rommeney, Albert, and G. Kathe, Heidenau, Dresden, Germany. Apparatus for cutting and stacking sheets of paper or the like. No. 1,152,551; Sept. 7; Gaz. vol. 218; p. 63.
- Rommer, Isaac A., New York, N. Y. Doll-head. No. 1,149,858; Aug. 10; Gaz. vol. 217; p. 594.
- Romsos, Oliver T., Sarles, N. D. Display rack or cabinet. No. 1,134,908; Apr. 6; Gaz. vol. 213; p. 294.

- Roncevick, Joe, Park City, Utah. Rail-joint. No. 1,155,277; Sept. 28; Gaz. vol. 218; p. 1113.
- Ronchetti, Joseph A., Woonsocket, R. I., assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Line-spacing mechanism for type-writing machines. No. 1,162,192; Nov. 30; Gaz. vol. 220; p. 1509.
- Ronchetti, Joseph A., Woonsocket, R. I., assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,163,953; Dec. 14; Gaz. vol. 221; p. 472.
- Ronconi, Domenico, Chicago, Ill. Toy. No. 1,132,796; Mar. 23; Gaz. vol. 212; p. 1162.
- Ronconi, Domenico, Chicago, Ill. Pruning implement. No. 1,137,286; Apr. 27; Gaz. vol. 213; p. 1259.
- Roney, Edward A., Goldfield, Nev. Watch case and movement protector. No. 1,139,374; May 11; Gaz. vol. 214; p. 618.
- Roney, William H., Gary, Ind. Apparatus for mixing or blending grain. No. 1,145,215; July 6; Gaz. vol. 216; p. 83.
- Roney, William H., Gary, Ind. Apparatus for distributing grain. No. 1,149,221; Aug. 10; Gaz. vol. 217; p. 363.
- Rongstad, Carl O., Valler, Mont. Clipper. No. 1,161,342; Nov. 23; Gaz. vol. 220; p. 1166.
- Ronnan, Frederick P. (See Lavers, Charles W., assignor.)
- Ronning, Adolph. (See Ronning, Andree G. and A.)
- Ronning, Andree G. and A., Boyd, Minn. Ensilage-harvester. No. 1,161,252; Nov. 23; Gaz. vol. 220; p. 1135.
- Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,128,519; Feb. 16; Gaz. vol. 211; p. 738.
- Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Binding attachment for sewing-machines. No. 1,137,665; Apr. 27; Gaz. vol. 213; p. 1388.
- Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Binding attachment for sewing-machines. No. 1,150,627; Aug. 17; Gaz. vol. 217; p. 927.
- Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Blinder-head for sewing-machines. No. 1,150,628; Aug. 17; Gaz. vol. 217; p. 927.
- Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,156,821; Oct. 12; Gaz. vol. 219; p. 545.
- Rood, Charles W., assignor of one-fourth to G. M. Hill and one-fourth to E. M. Hill, Grand Rapids, Wis. Carriage and movable track therefor. No. 1,144,793; June 29; Gaz. vol. 215; p. 1423.
- Rood, Lloyd V., Marietta, Ohio. Tire-plug. No. 1,143,141; June 15; Gaz. vol. 215; p. 796.
- Rooke Automatic Register Company. (See Turck, Joseph A., assignor.)
- Rooke, George F. (See Leonard and Rooke.)
- Rookledge, Percival L. (See Gillespie and Rookledge.)
- Rookledge, Percival L., Cambria, Cal. Shock-absorber. No. 1,124,956; Jan. 12; Gaz. vol. 210; p. 660.
- Rookwood Pottery Company, The. (See Metzner, Otto, assignor.)
- Rooney, Edward, Richmond Hill, N. Y. Educational appliance. No. 1,129,019; Feb. 16; Gaz. vol. 211; p. 914.
- Rooney, James, Washington, D. C. Aeroplane construction. No. 1,132,686; Mar. 23; Gaz. vol. 212; p. 1121.
- Rooney, John J., New York, N. Y. Incandescent electric lamp. No. 1,123,384; Jan. 5; Gaz. vol. 210; p. 64.
- Rooney, Luke H., New Bedford, assignor to The Whitin Machine Works, Whitinsville, Mass. Ring-frame tool. No. 1,139,806; May 18; Gaz. vol. 214; p. 807.
- Rooney, Martin J., Butte, Mont. Exercising lens-shade. No. 1,130,634; Mar. 2; Gaz. vol. 212; p. 277.
- Rooney, Thomas F., St. Louis, Mo., assignor to United Shoe Machinery Company, Paterson, N. J. Insole for shoes. No. 1,140,918; May 25; Gaz. vol. 214; p. 1233.
- Roop, Clarence H., Camden, assignor of one-third to E. W. Havens, Belford, and one-third to H. G. Havens, Camden, N. J. Phonograph. No. 1,143,784; June 22; Gaz. vol. 215; p. 1043.
- Roop, Joseph L., Louisville, Ky. Moving-picture camera and projecting device. No. 1,133,580; Mar. 30; Gaz. vol. 212; p. 1480.
- Roos, Hendrik C., Grand Rapids, Mich. Embossing-machine. No. 1,142,273; June 8; Gaz. vol. 215; p. 454.
- Root, Charles F., Ravenna, assignor of one-fourth to B. O. Conn, Mansfield, Ohio. Safety device for punching-machines. No. 1,131,161; Mar. 9; Gaz. vol. 212; p. 491.
- Root, Charles F., Ravenna, assignor of one-fourth to B. O. Conn, Mansfield, Ohio. Safety device. No. 1,136,369; Apr. 20; Gaz. vol. 213; p. 892.
- Root, Edwin R., executor. (See Stroud, John J.)
- Root, Fred N., Kalamazoo, Mich. Wheel-guard. No. 1,163,689; Dec. 14; Gaz. vol. 221; p. 378.
- Root, Huber H., Medina, Ohio. Food compound. No. 1,158,297; Oct. 26; Gaz. vol. 219; p. 1158.
- Root, Huber H., and L. W. Boyden, Medina, Ohio. Food and confectionery compound. No. 1,156,181; Oct. 12; Gaz. vol. 219; p. 323.
- Root, James C., Getchell, Wash. Rail-joint. No. 1,137,666; Apr. 27; Gaz. vol. 213; p. 1388.
- Root, Ralph R., Cleveland, Ohio. Brooder. No. 1,138,508; May 4; Gaz. vol. 214; p. 275.
- Root, Ralph R., Cleveland, Ohio. Signaling device. No. 1,160,766; Nov. 16; Gaz. vol. 220; p. 916.
- Root, William A., Bennington, Vt. Air-controlled device for gas-engines. No. 1,143,230; June 15; Gaz. vol. 215; p. 829.
- Roots, James D., London, England. Fluid-pressure engine. No. 1,125,722; Jan. 19; Gaz. vol. 210; p. 971.
- Roots, James D., London, England. Valve-operating gear of internal-combustion engines. No. 1,127,924; Feb. 9; Gaz. vol. 211; p. 483.
- Roots, Walter J., Portland, Oreg. Automobile heating apparatus. No. 1,162,105; Nov. 30; Gaz. vol. 220; p. 1479.
- Roovers, Alfred W., Brooklyn, N. Y. Die-press. No. 1,162,883; Dec. 7; Gaz. vol. 221; p. 51.
- Roovers, Alfred W., Brooklyn, N. Y. Gage for positioning sheets in embossing-presses. No. 1,163,464; Dec. 7; Gaz. vol. 221; p. 255.
- Roper, Charles H. (See Tousley and Roper.) (Reissue.)
- Roper, Charles H., Belmont, assignor to Hood Rubber Company, Boston, Mass. Production of sheeted rubber stock. No. 1,131,275; Mar. 9; Gaz. vol. 212; p. 531.
- Rorabeck, Claude, Dayton, Ohio. Oil-pump for Diesel engines. No. 1,132,797; Mar. 23; Gaz. vol. 212; p. 1163.
- Rorabeck, Claude, Dayton, Ohio. Air-compressor. No. 1,162,884; Dec. 7; Gaz. vol. 221; p. 52.
- Rork, Charles E., Douglas, Ariz. Flotation-machine. No. 1,136,485; Apr. 20; Gaz. vol. 213; p. 934.
- Rosa, Evaristo L., et al. (See Simao, Antonio P., assignor.)
- Rosato, Secondo, Sant' Agostino di Cavour, Italy. Beehive. No. 1,135,623; Apr. 13; Gaz. vol. 213; p. 589.
- Rosback, Frederick P., Benton Harbor, Mich. Perforating-machine. No. 1,125,723; Jan. 19; Gaz. vol. 210; p. 971.
- Rosback, Frederick P., Benton Harbor, Mich. Perforating-machine. No. 1,127,092; Feb. 2; Gaz. vol. 211; p. 151.
- Roschaneck, Otto, assignor to Hübner & Mayer, Vienna, Austria-Hungary. Multiplier of efficiency for float apparatus. No. 1,157,583; Oct. 19; Gaz. vol. 219; p. 843.
- Rose, Alexander, Heart Estate, Sale, Victoria, Australia. Implement for weeding and thinning plants and other purposes. No. 1,128,051; Feb. 9; Gaz. vol. 211; p. 527.
- Rose, Alfred A., Bellevue, Ky., assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Snare-drum. No. 1,142,543; June 15; Gaz. vol. 215; p. 690.
- Rose, Benjamin. (See Lieberman, Friedman, and Rose.)
- Rose, Carl S., San Francisco, Cal. Reversible rotary engine. No. 1,163,559; Dec. 7; Gaz. vol. 221; p. 288.
- Rose, Charles. (See Barr, John U., assignor.)
- Rose, Charles B., assignor to Velie Motor Vehicle Company, Moline, Ill. Magneto adjustment. No. 1,132,733; Mar. 23; Gaz. vol. 212; p. 1138.
- Rose, Charles M., New York, N. Y. Telephone-call recorder. No. 1,140,070; May 18; Gaz. vol. 214; p. 902.
- Rose, David. (See Rose, James, assignor.)
- Rose, David, Lancaster, Pa. Toaster. No. 1,155,838; Oct. 5; Gaz. vol. 219; p. 180.
- Rose, David, assignor of one-half to J. Rose, Lancaster, Pa. Lamp-shade. No. 1,142,775; June 8; Gaz. vol. 215; p. 628.
- Rose, Donald H. (See Farnsworth, Carpenter, Frost, Rose, and Sipher.)
- Rose, Edward E. (See Hadaway and Rose.)
- Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric sad-iron. No. 1,144,614; June 29; Gaz. vol. 215; p. 1359.
- Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Sad-iron. No. 1,148,627; Aug. 3; Gaz. vol. 217; p. 52.
- Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric heating apparatus. No. 1,155,167; Sept. 28; Gaz. vol. 218; p. 1080.
- Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrically-heated implement. No. 1,158,557; Nov. 2; Gaz. vol. 220; p. 53.
- Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Sad-iron. No. 1,166,154; Dec. 28; Gaz. vol. 221; p. 1322.
- Rose, Edward E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Percolator. No. 1,155,166; Sept. 28; Gaz. vol. 218; p. 1080.
- Rose, Frank S., deceased, Newark, N. J.; Corona Typewriter Company, Inc., Groton, N. Y., assignee by mesne assignments. Type-writing machine. (Reissue.) No. 13,934; June 22; Gaz. vol. 215; p. 1241.
- Rose, Frank S., deceased, Newark, N. J.; Corona Typewriter Company, Inc., Groton, N. Y., assignee. Escape mechanism for type-writers. (Reissue.) No. 13,935; June 22; Gaz. vol. 215; p. 1243.
- Rose, Fred G., Rocky Ford, Colo. Recorder. No. 1,154,438; Sept. 21; Gaz. vol. 218; p. 801.
- Rose, Frederick, O. Marcus, and A. Klentz, Portland, Oreg.; said Klentz assignor to P. Hauke. Kindling-block. No. 1,129,813; Feb. 23; Gaz. vol. 211; p. 1222.
- Rose, George F., New York, N. Y. Type-writer. No. 1,138,317; May 4; Gaz. vol. 214; p. 209.

Alphabetical list of patentees—Continued.

- Rose, George F., New York, N. Y. Type-writer. No. 1,138,318; May 4; Gaz. vol. 214; p. 210.
- Rose, Harry E., Cogar, Okla. Steak-pounder. No. 1,145,267; July 6; Gaz. vol. 216; p. 102.
- Rose, Harry E., Greenfield, Okla. Wrench. No. 1,152,764; Sept. 7; Gaz. vol. 218; p. 140.
- Rose, Hugh, Stanmore, New South Wales, Australia. Slack-adjuster. No. 1,144,866; June 29; Gaz. vol. 215; p. 1448.
- Rose, J. W., and C. A. Fox, Buffalo, N. Y. Nut-lock. No. 1,136,486; Apr. 20; Gaz. vol. 213; p. 935.
- Rose, James. (See Rose, David, assignor.)
- Rose, James, Peterborough, Ontario, Canada. Railway-chair. No. 1,151,285; Aug. 24; Gaz. vol. 217; p. 1209.
- Rose, James, assignor of one-half to D. Rose, Lancaster, Pa. Umbrella and parasol frame. No. 1,156,709; Oct. 12; Gaz. vol. 219; p. 508.
- Rose, James, assignor of one-half to D. Rose, Lancaster, Pa. Lamp standard and shade holder. No. 1,157,180; Oct. 19; Gaz. vol. 219; p. 703.
- Rose, John W., Dodge City, Kans. Berry-box. No. 1,147,551; July 20; Gaz. vol. 216; p. 941.
- Rose Label Machine Company. (See Rosenthal, Arthur, assignor.)
- Rose, Leon C., Oneonta, N. Y. Headlight for motor-driven vehicles. No. 1,124,810; Jan. 12; Gaz. vol. 210; p. 610.
- Rose, Paul A. (See Winans and Rose.)
- Rose, Paul L., Deming, N. Mex. Powder-transmission device. No. 1,145,439; July 6; Gaz. vol. 216; p. 162.
- Rose, Wilber C., Spokane, Wash. Pomace-chute. No. 1,123,385; Jan. 5; Gaz. vol. 210; p. 65.
- Rose, Willett E., Philipstown, N. Y. Folding bolster-stake. No. 1,157,584; Oct. 19; Gaz. vol. 219; p. 843.
- Rose, William, Gainsborough, England. Folding apparatus for wrapping-machines. No. 1,157,585; Oct. 19; Gaz. vol. 219; p. 843.
- Rose, William, Gainsborough, England. Apparatus for making bags or containers. No. 1,159,276; Nov. 2; Gaz. vol. 220; p. 301.
- Rose, William, Gainsborough, England. Packeting apparatus. No. 1,163,465; Dec. 7; Gaz. vol. 221; p. 256.
- Rose, William H., Jersey City, N. J. Soap-dispenser. No. 1,164,754; Dec. 21; Gaz. vol. 221; p. 791.
- Rose, William N., Houston, Tex. Wire-tightener. No. 1,151,399; Aug. 24; Gaz. vol. 217; p. 1246.
- Rosebrock, Wilhelm F., Fargo, N. D. Rotary converter and transformer. No. 1,125,914; Jan. 19; Gaz. vol. 210; p. 1037.
- Rosebrook, Lucius R., Oskaloosa, Iowa. Railway track-scale. No. 1,148,991; Aug. 3; Gaz. vol. 217; p. 179.
- Rosen, Herman T., Walkerton, Ind. Dipping device. No. 1,150,065; Aug. 17; Gaz. vol. 217; p. 728.
- Rosell, Claude A. O., assignor to Turco-Halvah Company, (Inc.), New York, N. Y. Food product. No. 1,154,059; Sept. 21; Gaz. vol. 218; p. 671.
- Roseman, Samuel G., Point Chevalier, New Zealand. Brush-making machinery. No. 1,123,596; Jan. 5; Gaz. vol. 210; p. 136.
- Rosen, Carl, Chicago, Ill. Shoe-polishing device. No. 1,156,435; Oct. 12; Gaz. vol. 219; p. 412.
- Rosen, Hyman, assignor of one-half to R. Bass, Brooklyn, N. Y. Sugar-vending machine. No. 1,127,520; Feb. 9; Gaz. vol. 211; p. 340.
- Rosen, Jean, Paris, France. Manufacture of a plastic and elastic material for tarring roads or for other purposes. No. 1,155,442; Oct. 5; Gaz. vol. 219; p. 41.
- Rosen, Jean, assignor to Société Anonyme des Combustibles Industriels, Paris, France. Manufacture of impregnated material. No. 1,155,443; Oct. 5; Gaz. vol. 219; p. 41.
- Rosen, Jean, assignor to Société Anonyme des Combustibles Industriels, Paris, France. Distillation of heavy oils. No. 1,162,654; Nov. 30; Gaz. vol. 220; p. 1663.
- Rosen, Jean, assignor to Société Anonyme des Combustibles Industriels, Paris, France. Manufacture of lubricating-oils and the like. No. 1,165,909; Dec. 28; Gaz. vol. 221; p. 1233.
- Rosen, Nathan M., Mount Vernon, N. Y. Hat for ladies and children. No. 1,161,162; Nov. 23; Gaz. vol. 220; p. 1100.
- Rosen, Sixten A., assignor of one-half to H. L. Dow, Worcester, Mass. Jar-opener. No. 1,164,119; Dec. 14; Gaz. vol. 221; p. 530.
- Rosenau & Company, S. (See Moll, William E., assignor.)
- Rosenau & Loeb. (See Keene, Charles H. F., assignor.)
- Rosenbaum, Louis, New York, N. Y. Pressing-machine. No. 1,128,520; Feb. 16; Gaz. vol. 211; p. 739.
- Rosenbaum, Morris, *et al.* (See Courlander, Bernard, Jr. assignor.)
- Rosenbaum, Samuel, and B. Finkelstein, Los Angeles, Cal. Adjustable sleeve-protector. No. 1,141,656; June 1; Gaz. vol. 215; p. 203.
- Rosenberg, Arthur, New York, N. Y. Suspension device. No. 1,137,906; May 4; Gaz. vol. 214; p. 64.
- Rosenberg, Carl G. K., Stockholm, Sweden. Holding device for manuscripts, copies, and the like. No. 1,153,878; Sept. 14; Gaz. vol. 218; p. 575.
- Rosenberg, Henry, New York, N. Y. Disk and sheet-music holder. No. 1,150,538; Aug. 17; Gaz. vol. 217; p. 896.
- Rosenberg, Louis. (See Pollock and Rosenberg.) (Re-issue.)
- Rosenberg, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Wheel-brake. No. 1,124,332; Jan. 12; Gaz. vol. 210; p. 436.
- Rosenberg, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Axle for automobiles. No. 1,137,287; Apr. 27; Gaz. vol. 213; p. 1259.
- Rosenberg, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Steering and driving wheel for motor-vehicles. No. 1,137,288; Apr. 27; Gaz. vol. 213; p. 1260.
- Rosenberg, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Driving-gearing for motor-vehicles. No. 1,164,870; Dec. 21; Gaz. vol. 221; p. 832.
- Rosenberg, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Gearing. No. 1,164,871; Dec. 21; Gaz. vol. 221; p. 832.
- Rosenberger, Andrew F. (See Rosenberger, Thomas H., assignor.)
- Rosenberger, Andrew F., Chicago, Ill. Listing device. No. 1,153,520; Sept. 14; Gaz. vol. 218; p. 449.
- Rosenberger, George, Walhalla, Mich. Gate. No. 1,151,048; Aug. 24; Gaz. vol. 217; p. 1129.
- Rosenberger, Thomas H., Los Angeles, Cal., assignor to A. F. Rosenberger, Chicago, Ill. Overlapping card-index. No. 1,158,857; Nov. 2; Gaz. vol. 220; p. 158.
- Rosenberry, John W., Betula, Pa. Mop-wringer. No. 1,137,907; May 4; Gaz. vol. 214; p. 64.
- Rosenblatt, Irving S., San Francisco, Cal. Antiseptic attachment for telephone-mouthpieces. No. 1,131,088; Mar. 9; Gaz. vol. 212; p. 467.
- Rosenbloom, Abe N., Philadelphia, Pa. Garment pressing and steaming device. No. 1,157,586; Oct. 19; Gaz. vol. 219; p. 844.
- Rosenbluth, Edwin M., Philadelphia, Pa. Acetylene-gas generator. No. 1,140,853; May 25; Gaz. vol. 214; p. 1208.
- Rosenbluth, Edwin M., Philadelphia, Pa. Electrically-operated water-heater for automobile-radiators. No. 1,155,098; Sept. 28; Gaz. vol. 218; p. 1056.
- Rosencrans, Herman F., Durand, Mich. Valve. No. 1,143,999; June 22; Gaz. vol. 215; p. 1118.
- Rosencrans, Herman F., Durand, Mich. Pumping system. No. 1,148,054; July 27; Gaz. vol. 216; p. 1145.
- Rosencrantz, Isidor B., New York, N. Y., assignor to The Patent Products Corporation. Bottle-cap. No. 1,153,706; Sept. 14; Gaz. vol. 218; p. 514.
- Rosendahl, Andrew. (See Clemmer, Rosendahl, and Halvorsen.)
- Rosendahl, Carl M. A., Kindred, N. D. Motor-cycle spring. No. 1,135,927; Apr. 13; Gaz. vol. 213; p. 694.
- Rosendahl, Nils M., assignor to F. C. Austin, Chicago, Ill. Window-ventilator dust-collecting mechanism. No. 1,154,060; Sept. 21; Gaz. vol. 218; p. 671.
- Rosenfeld, Francis M., New York, N. Y., assignor to Import Sales Company. Pocket flash-light. No. 1,150,066; Aug. 17; Gaz. vol. 217; p. 729.
- Rosenfeld, Francis M., New York, N. Y., assignor to Import Sales Company. Circuit-closing device. No. 1,154,130; Sept. 21; Gaz. vol. 218; p. 695.
- Rosenfeld, Francis M., New York, N. Y., assignor to Import Sales Company. Electric socket. No. 1,157,181; Oct. 19; Gaz. vol. 219; p. 704.
- Rosenfeld, Joseph. (See Hedinger, Fred H., assignor.)
- Rosenfeld, Morris W., Rochester, N. Y. Suitcase. No. 1,153,136; Sept. 7; Gaz. vol. 218; p. 271.
- Rosenfeld, Mortimer C., Cleveland, Ohio. Container. No. 1,158,558; Nov. 2; Gaz. vol. 220; p. 53.
- Rosenfeld, Ralph H. (See Roberts, Fred T., assignor.)
- Rosengren, George T., assignor to Enterprise Tool and Metal Works, Chicago, Ill. Sad-iron. No. 1,142,984; June 15; Gaz. vol. 215; p. 742.
- Rosenheim, Ida S. (See Schoenberg, Ralph A., assignor.)
- Rosenheim, Jay B., Philadelphia, Pa. Knockdown shack. No. 1,124,063; Jan. 5; Gaz. vol. 210; p. 294.
- Rosenheim, Milton T., Philadelphia, Pa. Luminous switch-key. No. 1,147,269; July 20; Gaz. vol. 216; p. 842.
- Rosenstein, D. L. (See Karlik, Johan, assignor.)
- Rosenstengel, Frederick N., assignor to Sattley Coin Handling Machine Company, Detroit, Mich. Coin-gage for coin-controlled mechanism. No. 1,158,722; Nov. 2; Gaz. vol. 220; p. 108.
- Rosenthal, Arthur, assignor to Rose Label Machine Company, Grand Rapids, Mich. Sewing-machine for attaching labels. No. 1,142,057; June 8; Gaz. vol. 215; p. 378.
- Rosenthal, August, West Allis, Wis. Self-feeder for corn husking and shredding machines. No. 1,142,844; June 15; Gaz. vol. 215; p. 690.
- Rosenthal, August, West Allis, Wis. Distributer-elbow. No. 1,154,658; Sept. 28; Gaz. vol. 218; p. 905.
- Rosenthal, Harry, Camden, N. J., assignor of one-half to J. J. Baylson, Philadelphia, Pa. Electric sad-iron. No. 1,150,968; Aug. 24; Gaz. vol. 217; p. 1102.
- Rosenthal, Herman, Yonkers, N. Y. Leaf-tobacco-cutting machine. No. 1,147,342; July 20; Gaz. vol. 216; p. 867.
- Rosenthal, Israel E., Argenta, Ark. Circuit-closer. No. 1,148,931; Aug. 3; Gaz. vol. 217; p. 158.

- Rosenthal, James H., Chiselhurst, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-generator. No. 1,132,036; Mar. 16; Gaz. vol. 212; p. 836.
- Rosenthal, Levi M. (See Mitchell, George W., assignor.)
- Rosenthal, Max, New York, N. Y., assignor of one-half to G. Schmidt, Jr., Elizabeth, N. J. Hot-water bottle. No. 1,132,977; Mar. 23; Gaz. vol. 212; p. 1229.
- Rosenthal, Morris G., Mentor, Ohio. Union suit. No. 1,139,999; May 18; Gaz. vol. 214; p. 875.
- Rosenthal, Raphael. (See Schreiber, Norbert, assignor.)
- Rosenthal, Raphael. (See Schreiber and Rosenthal.)
- Rosenthal, Samuel, New York, N. Y. Collapsible receptacle for carrying lunches and for similar purposes. No. 1,128,521; Feb. 16; Gaz. vol. 211; p. 739.
- Rosenwasser, Josef. (See Kampler, Daniel M., assignor.)
- Rosenwasser, Morris, New York, N. Y. Apparatus for use in manufacturing leggings. No. 1,137,087; Apr. 27; Gaz. vol. 213; p. 1185.
- Rosenzweig, Abraham H., assignor of one-half to L. I. Rosenzweig, New York, N. Y. Telephone-index. No. 1,150,801; Nov. 9; Gaz. vol. 220; p. 522.
- Rosenzweig, Louis I. (See Rosenzweig, Abraham H., assignor.)
- Rosenzweig, Siegfried, York, Pa. Engine-valve. No. 1,125,724; Jan. 19; Gaz. vol. 210; p. 971.
- Rosenzweig, Siegfried, York, Pa. Lubricating device for steam-engine valves. No. 1,125,725; Jan. 19; Gaz. vol. 210; p. 972.
- Rosewarne, Richard E., Covington, Ky. Lock nut and bolt. No. 1,128,725; Feb. 16; Gaz. vol. 211; p. 809.
- Rosewarne, Richard E., Covington, Ky., assignor to The Miller, Du Brul and Peters Manufacturing Co., Cincinnati, Ohio. Rod-cutting device. No. 1,146,657; July 13; Gaz. vol. 216; p. 609.
- Rosewarne, Richard E., Covington, Ky., assignor to The Miller, Du Brul & Peters Mfg. Co., Cincinnati, Ohio. Friction-clutch. No. 1,163,690; Dec. 14; Gaz. vol. 221; p. 379.
- Rosier, Carl, Dusseldorf-Rath, Germany. Ironing-machine. No. 1,147,121; July 20; Gaz. vol. 216; p. 790.
- Rosine, Conrad, Chicago, Ill. Combined shoe-horn and buttonhook. No. 1,130,198; Mar. 2; Gaz. vol. 212; p. 124.
- Rosing, Boris, St. Petersburg, Russia. Electrical telescoping. No. 1,135,624; Apr. 13; Gaz. vol. 213; p. 589.
- Rosing, Boris, Petrograd, Russia. Electric telescoping. No. 1,161,734; Nov. 23; Gaz. vol. 220; p. 1301.
- Rosing, William H. V., Springfield, Mo. Freight-car door. No. 1,164,120; Dec. 14; Gaz. vol. 221; p. 530.
- Rosko, John, Johnstown, Pa. Foldable box and trunk. No. 1,126,088; Jan. 26; Gaz. vol. 210; p. 1134.
- Rosner, Adolph, assignor to The Locomobile Company of America, Bridgeport, Conn. Internal-combustion engine. No. 1,149,986; Aug. 10; Gaz. vol. 217; p. 640.
- Rosner, Adolph, Bridgeport, Conn., assignor to The "Locomobile" Company of America, New York, N. Y. Internal-combustion engine. No. 1,164,550; Dec. 14; Gaz. vol. 221; p. 680.
- Rosner, Jacob, New York, N. Y. Garment-banger. No. 1,124,811; Jan. 12; Gaz. vol. 210; p. 610.
- Rosner, Max, assignor to E. D. Henderson, Jr., New York, N. Y. Fire-escape. No. 1,149,689; Aug. 10; Gaz. vol. 217; p. 534.
- Rosofsky, Samuel H., Port Richmond, N. Y., assignor of one-half to A. Cone, Toronto, Canada. Doll. No. 1,163,368; Dec. 7; Gaz. vol. 221; p. 222.
- Ross, Abraham J., Springfield, Ohio. Gate. No. 1,132,389; Mar. 16; Gaz. vol. 212; p. 964.
- Ross, Adelle H., and B. B. Gibbs, Oakland, Cal. Adjustable dress-shield supporter. No. 1,127,093; Feb. 2; Gaz. vol. 211; p. 152.
- Ross, Alonzo, Jersey City, N. J. Drifting-valve. No. 1,145,798; July 6; Gaz. vol. 216; p. 288.
- Ross, Andrew. (See Mulligan, William P., assignor.)
- Ross, Charles H. A. F. L., Balmagown Castle, county of Ross, Scotland. Drilling-machine. No. 1,125,181; Jan. 19; Gaz. vol. 210; p. 776.
- Ross, Charles H. A. F. L., Balmagown Castle, county of Ross, Scotland. Mushrooming bullets. No. 1,141,212; June 1; Gaz. vol. 215; p. 44.
- Ross, Charles H. A. F. L., Balmagown Castle, county of Ross, Scotland. Firearm. No. 1,141,582; June 1; Gaz. vol. 215; p. 177.
- Ross, Charles H. A. F. L., Balmagown Castle, county of Ross, Scotland. Treating steel. No. 1,151,049; Aug. 24; Gaz. vol. 217; p. 1129.
- Ross, Charles H. A. F. L., Balmagown Castle, county of Ross, Scotland. Machine for feeding and swaging bullets. No. 1,154,810; Sept. 28; Gaz. vol. 218; p. 956.
- Ross, Charles J., Exeter, England. Ammunition-receptacle. No. 1,163,369; Dec. 7; Gaz. vol. 221; p. 223.
- Ross, Charles P., Seattle, Wash. Advertising display device. No. 1,128,522; Feb. 16; Gaz. vol. 211; p. 740.
- Ross, Charles S., Highland Park, assignor to C. D. Brown, trustee, Detroit, Mich. Valve-gear for explosive-engines. No. 1,161,343; Nov. 23; Gaz. vol. 220; p. 1166.
- Ross, David E., La Fayette, Ind. Steering-gear for vehicles. (Reissue.) No. 13,866; Jan. 12; Gaz. vol. 210; p. 689.
- Ross, David E., assignor to Ross Gear and Tool Company, La Fayette, Ind. Steering-gear. No. 1,136,556; Apr. 20; Gaz. vol. 213; p. 959.
- Ross, David E., assignor to Ross Gear and Tool Company, La Fayette, Ind. Steering arm and post. No. 1,136,557; Apr. 20; Gaz. vol. 213; p. 959.
- Ross, David E., assignor to Ross Gear and Tool Company, La Fayette, Ind. Steering-gear. No. 1,157,123; Oct. 19; Gaz. vol. 219; p. 683.
- Ross, David M., Youngstown, Fla. Dispensing-cabinet. No. 1,160,448; Nov. 16; Gaz. vol. 220; p. 800.
- Ross, Edward E. (See Lakey and Ross.)
- Ross, Edwin B. (See Burrows and Ross.)
- Ross, Elizabeth, Portsmouth, Ohio. Scrubbing-machine. No. 1,164,216; Dec. 14; Gaz. vol. 221; p. 562.
- Ross, Elliott P., Freeport, N. Y. Homogenizing and heating device for gaseous fuels. No. 1,160,327; Nov. 16; Gaz. vol. 220; p. 759.
- Ross, Elmore N., et al. (See Atkins, William, assignor.)
- Ross, Frances, New York, N. Y. Cover for ironing-boards. No. 1,146,349; July 13; Gaz. vol. 216; p. 500.
- Ross, Frank, assignor to The Cleveland Foundry Company, Cleveland, Ohio. Safety appliance. No. 1,163,772; Dec. 14; Gaz. vol. 221; p. 409.
- Ross, Frank A., Evanston, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-thermometer. No. 1,159,712; Nov. 9; Gaz. vol. 220; p. 488.
- Ross, Frank D., West Orange, N. J. Car-platform. No. 1,148,932; Aug. 3; Gaz. vol. 217; p. 159.
- Ross, Frederick M., Cincinnati, Ohio. Lathe for cutting forms. No. 1,162,255; Nov. 30; Gaz. vol. 220; p. 1531.
- Ross Gear and Tool Company. (See Ross, David E., assignor.)
- Ross, Harry A., Atlantic City, N. J. Tobacco-moistener. No. 1,134,232; Apr. 6; Gaz. vol. 213; p. 55.
- Ross, Henry G. (See Camden, Andrew B., assignor.)
- Ross, James A., assignor of one-half to E. J. Bigley, Altoona, Pa. Electrical switch-throwing mechanism. No. 1,123,926; Jan. 5; Gaz. vol. 210; p. 248.
- Ross, Jay W., Forsyth, Ga. Seal for railway-car doors. No. 1,143,441; June 15; Gaz. vol. 215; p. 904.
- Ross, Jefferson C., and G. F. McCulley, Vancouver, British Columbia, Canada, assignors to The American Automatic and Springless Faucet Company, Seattle, Wash. Faucet. No. 1,148,193; July 27; Gaz. vol. 216; p. 1196.
- Ross, John, Philadelphia, Pa. Traction and antiskidding device for automobiles. No. 1,138,014; May 4; Gaz. vol. 214; p. 101.
- Ross, John C., and M. A. Prugh, Greensburg, Pa. Lubricating-hub. No. 1,161,977; Nov. 30; Gaz. vol. 220; p. 1433.
- Ross, John D., assignor of one-half to C. T. Swett, Portland, Me. Electric steam and hot-water radiator. No. 1,158,723; Nov. 2; Gaz. vol. 220; p. 109.
- Ross, John D., assignor to Electrical Steam Radiator Co., Portland, Me. Electric radiator. No. 1,158,724; Nov. 2; Gaz. vol. 220; p. 109.
- Ross, John J., International Falls, Minn. Hand-truck. No. 1,150,539; Aug. 17; Gaz. vol. 217; p. 896.
- Ross, John M., Los Angeles, Cal. Sectional ship. No. 1,149,598; Aug. 10; Gaz. vol. 217; p. 498.
- Ross, John M., Maple Creek, Saskatchewan, Canada. Tire for vehicle-wheels. No. 1,123,597; Jan. 5; Gaz. vol. 210; p. 136.
- Ross, John M., Los Angeles, Cal. Ship. No. 1,164,872; Dec. 21; Gaz. vol. 221; p. 832.
- Ross, John O., assignor to B. F. Sturtevant Company, Boston, Mass. Drying apparatus. No. 1,150,540; Aug. 17; Gaz. vol. 217; p. 896.
- Ross, John W., Chicago, Ill. Internal-combustion engine. No. 1,163,691; Dec. 14; Gaz. vol. 221; p. 379.
- Ross, Joseph F., Ipswich, Mass. Harness for carrying cement-bags. No. 1,129,732; Feb. 23; Gaz. vol. 211; p. 1194.
- Ross, Joseph L., Monongahela, Pa. Chute for freight-cars. No. 1,151,719; Aug. 31; Gaz. vol. 217; p. 1402.
- Ross, Justus J., Logan, W. Va. Reversible cross-tie for switches. No. 1,150,630; Aug. 17; Gaz. vol. 217; p. 928.
- Ross Limited. (See Hasselkus, John W., assignor.)
- Ross, Margaret N. (See Rouse, Frank L., assignor.)
- Ross, Margaret N., Boston, Mass. Vanity-box. No. 1,163,773; Dec. 14; Gaz. vol. 221; p. 409.
- Ross, Martinus, Kansas City, Mo. Toy gun. No. 1,159,098; Nov. 2; Gaz. vol. 220; p. 238.
- Ross, Myron A., assignor to Pressed Prism Plate Glass Company, Morgantown, W. Va. Apparatus for pressing glass. No. 1,149,987; Aug. 10; Gaz. vol. 217; p. 641.
- Ross, Oscar A., assignor of one-half to C. V. Kasson, Chicago, Ill. Fender or the like. No. 1,140,336; May 18; Gaz. vol. 214; p. 993.
- Ross, Oscar A., assignor of one-half to C. V. Kasson, Chicago, Ill. Automatic train stop or signal device. No. 1,147,444; July 20; Gaz. vol. 216; p. 905.
- Ross, Oscar A., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electromagnetic retaining device. No. 1,165,362; Dec. 21; Gaz. vol. 221; p. 1003.
- Ross, Otto E., Salt Lake City, Utah. Laundry tray or tub. No. 1,124,812; Jan. 12; Gaz. vol. 210; p. 610.
- Ross, Robert M., Los Angeles, Cal. Cupboard-door catch. No. 1,128,523; Feb. 16; Gaz. vol. 211; p. 740.

Alphabetical list of patentees—Continued.

- Ross, Thaddeus G., Marengo, Ill. Shingling-bracket. No. 1,146,595; July 13; Gaz. vol. 216; p. 589.
- Ross, Torey, Chicago, Ill. Pendulum. No. 1,130,435; Mar. 2; Gaz. vol. 212; p. 207.
- Ross, Walter T., assignor to The Triumph Pipe Company, Limited, Vancouver, British Columbia, Canada. Tobacco-pipe. No. 1,164,551; Dec. 14; Gaz. vol. 221; p. 681.
- Ross, William H., Holyoke, Mass. Foldable and collapsible bucket. No. 1,152,846; Sept. 7; Gaz. vol. 218; p. 172.
- Ross, William L., assignor of one-third to J. A. Milligan, Porterville, Cal. Weighing-machine. No. 1,164,873; Dec. 21; Gaz. vol. 221; p. 833.
- Rosselló, Miguel O., Barcelona, Spain. Apparatus for hygienic, medical, and orthopedic gymnastics. No. 1,164,217; Dec. 14; Gaz. vol. 221; p. 562.
- Rosselot, Joseph M., assignor of one-half to B. B. Quillen, Cincinnati, Ohio. Way-signal. No. 1,134,909; Apr. 6; Gaz. vol. 213; p. 294.
- Rosser, E. R. (See Gunn, John M., assignor.)
- Rossi, Ugo, Milan, Italy. Apparatus for concentrating liquids. No. 1,152,977; Sept. 7; Gaz. vol. 218; p. 219.
- Rossig, Armond G., Weehawken, and T. S. Crane, East Orange, N. J.; said Crane assignor to said Rossig. Wreath, vine, or spray of artificial leaves. No. 1,158,076; Oct. 26; Gaz. vol. 219; p. 1080.
- Rossmann, Jonas A., New York, N. Y. Candle and attachment. No. 1,144,728; June 29; Gaz. vol. 215; p. 1400.
- Rossmann, Roy G., Seattle, Wash. Tire-bandage-wrapping machine. No. 1,165,807; Dec. 28; Gaz. vol. 221; p. 1199.
- Rossmann, Anton, Milwaukee, Wis. Newspaper-vending machine. No. 1,160,449; Nov. 16; Gaz. vol. 220; p. 801.
- Rossuck, Louis H., assignor of forty-nine one-hundredths to M. Schultz, Bay Shore, N. Y. Bottle-cap. No. 1,165,131; Dec. 21; Gaz. vol. 221; p. 925.
- Rossy, Charles J., assignor of one-half to E. J. H. Meier, San Antonio, Tex. Applying a corn-shuck wrapper to a cigar. No. 1,145,268; July 6; Gaz. vol. 216; p. 102.
- Rostad, Ludvig, Vermillion, S. D. Needle-threader. No. 1,159,802; Nov. 9; Gaz. vol. 220; p. 522.
- Rostand Manufacturing Company, The. (See Landine, Peter N., assignor.)
- Rostand Manufacturing Company, The. (See McCarthy and Allmand, assignors.)
- Rosten, Thor, and N. Trydal, Madison, Wis. Watch-charm. No. 1,137,088; Apr. 27; Gaz. vol. 213; p. 1185.
- Roswall, Loui, Elmsford, N. Y. Combined trunk and folding bed. No. 1,148,802; Aug. 3; Gaz. vol. 217; p. 115.
- Roszman, Charles, Cecil, Ohio. Alfalfa-cultivator. No. 1,135,051; Apr. 15; Gaz. vol. 213; p. 391.
- Rotarius, Joseph, Kawkawlin, Mich. Concrete-block machine. No. 1,127,521; Feb. 9; Gaz. vol. 211; p. 340.
- Rotary Meter Company. (See Reeve, Sidney A., assignor.)
- Rotary Photographic Company, The. (See Madaler, Ferdinand von, assignor.)
- Rotary Rod Weeder & Manufacturing Company. (See Wolfe, Grover C. and H. K., assignors.) (Reissue.)
- Rotary Valve Manufacturing Company. (See Sherman, Louie A., assignor.)
- Rotcher, Daniel H., et al. (See Rundquist, William, assignor.)
- Rotermundt, Otto H., San Francisco, Cal. Combination ventilator and clean-out tee. No. 1,146,451; July 13; Gaz. vol. 216; p. 539.
- Roth, Andor, assignor of one-half to T. Freund, New York, N. Y. Doll-head. No. 1,146,596; July 13; Gaz. vol. 216; p. 589.
- Roth, Andrew W., River Aux Vases, Mo. Stove. No. 1,139,231; May 11; Gaz. vol. 214; p. 568.
- Roth, Anthony, Jr., New Brunswick, N. J. Screen. No. 1,158,858; Nov. 2; Gaz. vol. 220; p. 158.
- Roth, Anton, Newport, Ky. Dough-mixing machine. No. 1,142,461; June 8; Gaz. vol. 215; p. 522.
- Roth, Charles, assignor of one-half to J. Yaggi, New Philadelphia, Ohio. Calipers. No. 1,156,100; Oct. 12; Gaz. vol. 219; p. 296.
- Roth, Charles C. (See Reed, Frank E., assignor.)
- Roth, Charles E., Sr. (See Niebling, Frederick W., assignor.)
- Roth, Charles F., Pilot Grove, Mo. Chair. No. 1,130,021; Mar. 2; Gaz. vol. 212; p. 63.
- Roth, Henry N., New York, N. Y. Car-fender. No. 1,128,189; Feb. 9; Gaz. vol. 211; p. 576.
- Roth, Herman, et al. (See Gleason, Thomas F., assignor.)
- Roth, Jacob, New York, N. Y. Secret pocket. No. 1,147,445; July 20; Gaz. vol. 216; p. 905.
- Roth, Jacob M., Pittsburgh, Pa. Mold. No. 1,165,025; Dec. 21; Gaz. vol. 221; p. 886.
- Roth, John, et al. (See Anderson, Andrew S., assignor.)
- Roth, Joseph M., New York, N. Y. Stove attachment or guard. No. 1,160,767; Nov. 16; Gaz. vol. 220; p. 917.
- Roth, Karl H., assignor of one-half to H. Bick, Utica, N. Y. Bottle-holder. No. 1,164,218; Dec. 14; Gaz. vol. 221; p. 563.
- Roth, Ludwig, St. Louis, Mo. Wrench. No. 1,128,904; Feb. 16; Gaz. vol. 211; p. 873.
- Roth, William F. (See Robbins and Roth.)
- Rothe, William F., East St. Louis, Ill. Carbureter. No. 1,140,071; May 18; Gaz. vol. 214; p. 902.
- Rothenberg, Louis S. (See Hilton, Roland C., assignor.)
- Rothenberger, Daniel M., Reading, assignor of one-half to G. W. Heffelfinger, Wyomissing, Pa. Puncture-proof tire. No. 1,139,807; May 18; Gaz. vol. 214; p. 807.
- Rothenberger, Daniel M., assignor of one-third to F. F. Seidel, Reading, Pa. Mausoleum. No. 1,153,956; Sept. 21; Gaz. vol. 218; p. 635.
- Rothenberger, Daniel M., assignor of one-third to F. F. Seidel, Reading, Pa. Mausoleum. No. 1,156,039; Oct. 5; Gaz. vol. 219; p. 248.
- Rothenbacher, George E. R., assignor of one-half to I. Kahn, New York, N. Y. Automatic safety brake-lock for automobiles and other vehicles. No. 1,142,845; June 15; Gaz. vol. 215; p. 691.
- Rotherham, James A., Revere, Mass. Show-case. (Re-issue.) No. 13,875; Feb. 2; Gaz. vol. 211; p. 251.
- Rothermel, Andrew W. S., Milwaukee, Wis. Curtain and shade fixture. No. 1,129,907; Mar. 2; Gaz. vol. 212; p. 25.
- Rothermel, Curtis J., Philadelphia, Pa. Crate. No. 1,123,804; Jan. 5; Gaz. vol. 210; p. 207.
- Rothermel, Curtis J., Philadelphia, Pa. Splice-joint. No. 1,123,805; Jan. 5; Gaz. vol. 210; p. 207.
- Rothert, Edward H., Leavenworth, Wash. Magnetic separating apparatus. No. 1,144,383; June 29; Gaz. vol. 215; p. 1282.
- Rothfuss, Michael, Williamsport, Pa. Machine for inserting lag-screws. No. 1,149,222; Aug. 10; Gaz. vol. 217; p. 363.
- Rothholz, Louis, New York, N. Y. Protector for freight-car doors. No. 1,128,365; Feb. 16; Gaz. vol. 211; p. 685.
- Rothholz, Louis, New York, N. Y. Glass-cutting tool. No. 1,161,889; Nov. 30; Gaz. vol. 220; p. 1402.
- Rothkopf, Julius. (See Grote and Rothkopf.)
- Rothman, Edwin O., London, England, assignor to Société Burton Fils, Paris, France. Machine for sawing metals. No. 1,144,867; June 29; Gaz. vol. 215; p. 1448.
- Rothman, William, Racine, Wis. Grooving-tool. No. 1,158,725; Nov. 2; Gaz. vol. 220; p. 109.
- Rothmann, Albert. (See Ach and Rothmann.)
- Rothmann, Albert. (See Ach, Rothmann, and Dieterich.)
- Rothmann, Albert. (See Ach, Rothmann, and Hatzig.)
- Rothschild, Jacob, et al. (See Isaac, Theodor, assignor.)
- Rothschild, Marcus. (See Luby, Theodore, assignor.)
- Rothstein, Samuel A. H., New York, N. Y. Reversible coat. No. 1,161,735; Nov. 23; Gaz. vol. 220; p. 1301.
- Rotophot Aktiengesellschaft für graphische Industrie. (See Blecher, Carl, assignor.)
- Rotstein, Jacob. (See Levine and Rotstein.)
- Rottenborg, H. S., et al. (See Juel, Peter J., assignor.)
- Rottenburg, Henry, Cambridge, England. Camera-stand. No. 1,138,417; May 4; Gaz. vol. 214; p. 246.
- Rotter, Anton, Rorschach, Switzerland. Bobbin-winding machine. No. 1,146,452; July 13; Gaz. vol. 216; p. 539.
- Rotter, Max, Milwaukee, Wis., assignor, by mesne assignments, to Alhis-Chalmers Manufacturing Company. Steam-turbine. No. 1,123,927; Jan. 5; Gaz. vol. 210; p. 248.
- Rotter, William, Newark, N. J. Apparatus for making phonograph-records. No. 1,162,256; Nov. 30; Gaz. vol. 220; p. 1531.
- Roubeau, Gabriel, Paris, France. Silencer. No. 1,151,400; Aug. 24; Gaz. vol. 217; p. 1247.
- Roughsedge, William H., Ottawa, Ontario, Canada. Mold for use in the construction of concrete buildings. No. 1,153,447; Sept. 14; Gaz. vol. 218; p. 422.
- Roughton, Thomas H., assignor of one-half to J. H. Smith, Monte Vista, Colo. Bail and attaching-ears for pans. No. 1,126,658; Jan. 26; Gaz. vol. 210; p. 1340.
- Roulliot, Victor B., Haddonfield, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,163,774; Dec. 14; Gaz. vol. 221; p. 410.
- Rouilly, Didier. (See Papin and Rouilly.)
- Round & Son, David. (See Cull, Louis D., assignor.)
- Rounds, Erdix, assignor of one-half to Gunther-Wright Machine Company, Owensboro, Ky. Cylinder-head for explosive-engines. No. 1,129,605; Feb. 23; Gaz. vol. 211; p. 1155.
- Rounds, Harry P., Detroit, Mich. Attachment-plug. No. 1,160,531; Nov. 16; Gaz. vol. 220; p. 830.
- Rounds, James A., Atlantic City, N. J. Shade-fixture. No. 1,139,729; May 18; Gaz. vol. 214; p. 780.
- Rountree, Henry W., Richmond, Va. Wardrobe-trunk. No. 1,135,847; Apr. 13; Gaz. vol. 213; p. 668.
- Rourke, Joseph D., Bridgeport, Conn. Rotary valve. No. 1,131,089; Mar. 9; Gaz. vol. 212; p. 467.
- Rourke, Eugene F., Camden, N. J. Nut and bolt lock. No. 1,150,149; Aug. 17; Gaz. vol. 217; p. 760.
- Rousch, August, Peekskill, N. Y. Double-reflecting lamp. No. 1,151,401; Aug. 24; Gaz. vol. 217; p. 1247.
- Rouse, Frank L., Somerville, assignor to M. N. Ross, Boston, Mass. Trick-case. No. 1,163,775; Dec. 14; Gaz. vol. 221; p. 410.
- Rouse, Harry B., assignor to H. B. Rouse & Co., Chicago, Ill. Printing-form-aligning apparatus. No. 1,133,822; Mar. 30; Gaz. vol. 212; p. 1568.
- Rouse, Keith H., San Francisco, Cal. Tie-form. No. 1,134,910; Apr. 6; Gaz. vol. 213; p. 295.
- Rouse, William H., Grand Rapids, Mich. Card-holder. No. 1,136,487; Apr. 20; Gaz. vol. 213; p. 935.

- Rouse, William J., Williamsport, Pa. Folding sheet-metal box. No. 1,164,755; Dec. 21; Gaz. vol. 221; p. 791.
- Roush, Herbert E. (See King, Holmes, Jacoby, and Roush.)
- Roush, Herbert E. (See King, Weston, Roush, and Holmes.)
- Roush, Oscar E., *et al.* (See Loomis, Osmond E., assignor.)
- Roush, Squire, and C. H. Kenyon, San Francisco, Cal. Air-brake handle. No. 1,142,629; June 8; Gaz. vol. 215; p. 578.
- Roushar, Joseph C., Cedar Rapids, Iowa. Molding device. No. 1,130,635; Mar. 2; Gaz. vol. 212; p. 277.
- Rousseau, Edwin H., New Orleans, La. Liquid-heater. No. 1,136,169; Apr. 20; Gaz. vol. 213; p. 820.
- Rousseau, Jules, Sedan, France. Manufacturing filled sticks and other articles of confectionery wholly or partially covered with chocolate. No. 1,144,794; June 29; Gaz. vol. 215; p. 1423.
- Roussel, Germain, assignor to T. Klein, Broughton, Pa. Acetylene-gas lamp. No. 1,130,339; Mar. 2; Gaz. vol. 215; p. 172.
- Roussey, Paul, Brooklyn, N. Y. Permutation alarm and circuit-closer for sparking plugs. No. 1,161,890; Nov. 30; Gaz. vol. 220; p. 1402.
- Rouso, Jacques, Chicago, Ill. Counting mechanism. No. 1,147,552; July 20; Gaz. vol. 216; p. 941.
- Rouso, Jacques, Chicago, Ill. Towel-cabinet. No. 1,157,046; Oct. 19; Gaz. vol. 219; p. 656.
- Routery, Herbert C., Los Angeles, Cal. Feeding utensil. No. 1,128,190; Feb. 9; Gaz. vol. 211; p. 576.
- Routhe, Albert C. (See Carr and Routhe.)
- Routin, Joseph L., Paris, France. Means for collectively actuating and controlling alternating-current motors. No. 1,142,274; June 8; Gaz. vol. 215; p. 455.
- Roux, François A., assignor to Société L'Aluminium Français, Paris, France. Treatment of surfaces of aluminum or alloys of aluminum in order to prepare them for receiving a metallic deposit. No. 1,144,000; June 22; Gaz. vol. 215; p. 1119.
- Rouxel, Frederick A., Brooklyn, N. Y. Nail, screw, and spike. No. 1,125,885; Jan. 19; Gaz. vol. 210; p. 1025.
- Rovelli, Angelo C., Audubon, N. J., assignor of one-half to J. Cantor, Philadelphia, Pa. Button. No. 1,150,886; Aug. 24; Gaz. vol. 217; p. 1073.
- Rovira, Joaquin, Mainz, and H. Ahrlé, Frankfort-on-the-Main, Germany; said Ahrlé assignor to said Rovira. Mouthpiece for cigarettes. No. 1,153,574; Sept. 14; Gaz. vol. 218; p. 469.
- Rovira, Josephine, New York, N. Y. Brassière. No. 1,144,001; June 22; Gaz. vol. 215; p. 1119.
- Row, Albert O., Grand Island, Nebr. Attachment for milk-pails. No. 1,135,848; Apr. 13; Gaz. vol. 213; p. 668.
- Row, Charles G., San Francisco, Cal. Drafting instrument. No. 1,142,368; June 8; Gaz. vol. 215; p. 487.
- Row, Reuben R., Jersey City, N. J. Evaporator. No. 1,131,738; Mar. 16; Gaz. vol. 212; p. 726.
- Rowan, John V., and A. Zamrsky, Fort Stevens, Oreg. Cigar-holder. No. 1,145,799; July 6; Gaz. vol. 216; p. 288.
- Rowand, Lewis G., Brooklyn, assignor to New Jersey Zinc Company, New York, N. Y. Separation of minerals by flotation. No. 1,159,713; Nov. 9; Gaz. vol. 220; p. 489.
- Rowbotham, John, Hyde, England. Self-acting mule for spinning. No. 1,146,450; July 13; Gaz. vol. 216; p. 538.
- Rowe, Alvin V., Galesburg, Ill. Gate-binge. No. 1,162,311; Nov. 30; Gaz. vol. 220; p. 1551.
- Rowe, Arthur F., Boise, Idaho. Milk-bottle. No. 1,150,388; Aug. 17; Gaz. vol. 217; p. 844.
- Rowe, Bertrand P., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Synchronizing system. No. 1,138,689; May 11; Gaz. vol. 214; p. 376.
- Rowe, Bertrand P., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Making terminal devices. No. 1,156,710; Oct. 12; Gaz. vol. 219; p. 508.
- Rowe, Chauncey. (See Seaman, Albert J., assignor.)
- Rowe, Edward, Hurd, N. D. Brooder. No. 1,166,262; Dec. 28; Gaz. vol. 221; p. 1363.
- Rowe, Frank W., Oakland, Cal. Window-shade device. No. 1,153,521; Sept. 14; Gaz. vol. 218; p. 449.
- Rowe, James J., Ilford, England. Self-starter for internal-combustion engines. No. 1,129,814; Feb. 23; Gaz. vol. 211; p. 1222.
- Rowe, Walter A., Kokomo, Ind. Bait-bucket. No. 1,127,522; Feb. 9; Gaz. vol. 211; p. 341.
- Rowe, William N., Hibbing, Minn. Safety water-gage cock. No. 1,156,933; Oct. 19; Gaz. vol. 219; p. 615.
- Rowell, Arthur F., Springfield, Mass. Carbureter. No. 1,151,286; Aug. 24; Gaz. vol. 217; p. 1210.
- Rowell, Edward N., Batavia, N. Y. Label-cabinet. No. 1,151,402; Aug. 24; Gaz. vol. 217; p. 1247.
- Rowland, Frank C., Hagerman, N. Mex. Carpenter's tool. No. 1,157,587; Oct. 19; Gaz. vol. 219; p. 844.
- Rowland, Louis L. (See Ryan, John H., assignor.)
- Rowland Machine Company, The. (See Mettler and Moore, assignors.)
- Rowley, Arthur C., assignor to Associated Automatic Sprinkler Co., Philadelphia, Pa. Alarm-check valve. No. 1,137,025; Apr. 27; Gaz. vol. 213; p. 1163.
- Rowley, Arthur C., assignor to Associated Automatic Sprinkler Co., Philadelphia, Pa. Apparatus for operating alarms or other devices. No. 1,138,249; May 4; Gaz. vol. 214; p. 184.
- Rowley, Arthur C., assignor to Associated Automatic Sprinkler Co., Philadelphia, Pa. Dry valve. No. 1,162,809; Dec. 7; Gaz. vol. 221; p. 27.
- Rowley, Fred A., Sparta, Mich. Electric-tool handle. No. 1,153,575; Sept. 14; Gaz. vol. 218; p. 469.
- Rowley, George W., Los Angeles, Cal. Ladder. No. 1,149,786; Aug. 10; Gaz. vol. 217; p. 567.
- Rowley, James F., Chicago, Ill. Ankle-joint for artificial limbs. No. 1,123,928; Jan. 5; Gaz. vol. 210; p. 249.
- Rowley, James F., Chicago, Ill. Artificial hand. No. 1,161,344; Nov. 23; Gaz. vol. 220; p. 1167.
- Rowley, Washington W., Jr., and W. T. Brown, Philadelphia, Pa. Multigraph printing-machine. No. 1,130,199; Mar. 2; Gaz. vol. 212; p. 125.
- Rowley, Willson H., University, Mo. Electrode. No. 1,156,315; Oct. 12; Gaz. vol. 219; p. 367.
- Rowley, Willson H., St. Louis, Mo. Making electrodes. No. 1,156,316; Oct. 12; Gaz. vol. 219; p. 367.
- Rowntree, Frank L., South Meriden, assignor to The R. & H. Manufacturing Company, Hartford, Conn. Packaging-vending machine. No. 1,152,051; Aug. 31; Gaz. vol. 217; p. 1519.
- Rowntree, Harold, Chicago, Ill. Car signaling device. No. 1,134,640; Apr. 6; Gaz. vol. 213; p. 204.
- Rowntree, Harold, Kenilworth, Ill. Detachable keyboard for pianos. No. 1,157,047; Oct. 19; Gaz. vol. 219; p. 657.
- Rowthorne, William, Southampton, England. Screw-propeller. No. 1,142,530; June 8; Gaz. vol. 215; p. 545.
- Roy, Andrew J., Chicago, Ill. Core-binder. No. 1,127,523; Feb. 9; Gaz. vol. 211; p. 341.
- Roy, Charles J., Cajon, Cal. Gopher-trap. No. 1,161,891; Nov. 30; Gaz. vol. 220; p. 1403.
- Roy, E. H. (See Killman, Thomas A., assignor.)
- Roy, Ebenezer W. (See Salmon and Roy.)
- Roy, Edward H., *et al.* (See Killman, Thomas A., assignor.)
- Roy, Jean G., Cap Chat, Quebec, Canada. Milk-heater. No. 1,144,868; June 29; Gaz. vol. 215; p. 1448.
- Roy, Joseph E. (See Lacroix and Roy.)
- Roy, Louis A. (See Sprague, Almerin R., assignor.)
- Roy, Wadsworth D., Chicago, Ill. Combined advertising-card and display-box. No. 1,128,052; Feb. 9; Gaz. vol. 211; p. 527.
- Roy, Wadsworth D., Chicago, Ill. Poster or display-card. No. 1,139,075; May 11; Gaz. vol. 214; p. 515.
- Roy, Wadsworth D., Chicago, Ill. Advertising or display device. No. 1,146,103; July 13; Gaz. vol. 216; p. 415.
- Royal Electrotype Company. (See Gounley, James F., assignor.)
- Royal Engineering Corporation. (See Collins, Roy V., assignor.)
- Royal Equipment Company, The. (See Kelley, Edward F., assignor.)
- Royal Typewriter Company. (See Hess, Edward B., assignor.)
- Royal Typewriter Company. (See Hess and Myers, assignors.)
- Royal Typewriter Company. (See Myers, Lewis C., assignor.)
- Royal Typewriter Company. (See Utz, Anthony, assignor.)
- Royall, John H., Wake Forest, N. C. Wheelbarrow. No. 1,137,425; Apr. 27; Gaz. vol. 213; p. 1309.
- Royall, John H., Houston, assignor of twenty-four one-hundredths to G. W. E. Merewether, Dallas, and twenty-four one-hundredths to J. R. Maxfield, Waco, Tex. Thermostat. No. 1,166,081; Dec. 28; Gaz. vol. 221; p. 1293.
- Royce, Charles W., assignor, by mesne assignments, to Cushion Fabric Company, Providence, R. I. Fabric. No. 1,163,262; Dec. 7; Gaz. vol. 221; p. 185.
- Royce, Frederick H., Derby, England. Locking and adjusting device for linkwork. No. 1,128,524; Feb. 16; Gaz. vol. 211; p. 740.
- Royce, Frederick H., Derby, England. Change-speed and reversing gearing. No. 1,132,390; Mar. 16; Gaz. vol. 212; p. 964.
- Royce, Frederick H., Derby, England. Change-speed gearing for power-propelled vehicles. No. 1,149,408; Aug. 10; Gaz. vol. 217; p. 421.
- Royce, Frederick H., Derby, England. Mounting engines or transmission mechanisms on motor-vehicles. No. 1,161,531; Nov. 23; Gaz. vol. 220; p. 1233.
- Royce, Frederick H., Derby, England. Controlling device for the electric ignition systems of internal-combustion engines. No. 1,163,692; Dec. 14; Gaz. vol. 221; p. 380.
- Royce, Frederick H., Derby, England. Brake mechanism. No. 1,163,776; Dec. 14; Gaz. vol. 221; p. 410.
- Royer, Clarence, Newton, Kans. Corn-cutting machine. No. 1,137,667; Apr. 27; Gaz. vol. 213; p. 1388.
- Royer, George F. (See Kelly and Royer.)
- Royer, George F., Wilkes-Barre, Pa. Safety attachment for hoisting machinery. No. 1,129,733; Feb. 23; Gaz. vol. 211; p. 1195.
- Royer, George F., and L. F. Zweibel, Wilkes-Barre, Pa. Universal joint. No. 1,132,123; Mar. 16; Gaz. vol. 212; p. 867.

Alphabetical list of patentees—Continued.

- Roylance, Leon S., San Francisco, Cal. Agitating electric amalgamator. No. 1,128,905; Feb. 16; Gaz. vol. 211; p. 874.
- Roylance, Leon S., San Francisco, Cal. Ore-disintegrator. No. 1,142,462; June 8; Gaz. vol. 215; p. 522.
- Royle, George. (See Winzer, Charles B., assignor.)
- Royle, Vernon, Paterson, N. J. Machine for squaring negatives and plates. No. 1,133,823; Mar. 30; Gaz. vol. 212; p. 1568.
- Royle, Vernon, Paterson, N. J. Tension device. No. 1,142,531; June 8; Gaz. vol. 215; p. 545.
- Royle, Vernon, Paterson, N. J. Tubing-machine. No. 1,152,978; Sept. 7; Gaz. vol. 218; p. 220.
- Royle, Vernon, Paterson, N. J. Circular loom. No. 1,153,576; Sept. 14; Gaz. vol. 218; p. 469.
- Roys, Lawrence, assignor to Bucyrus Company, South Milwaukee, Wis. Drag-line excavator. No. 1,135,928; Apr. 13; Gaz. vol. 213; p. 694.
- Royse, Charles E., assignor of one-half to C. A. Winters, Eugene, Ind. Throwing-machine. No. 1,152,979; Sept. 7; Gaz. vol. 218; p. 220.
- Royster, David O., St. Louis, Mo. Machine for printing circular letters and addressing envelopes. No. 1,161,253; Nov. 23; Gaz. vol. 220; p. 1135.
- Royster, David O., St. Louis, Mo. Method of and apparatus for synchronously making motion-pictures and sound-records. No. 1,164,401; Dec. 14; Gaz. vol. 221; p. 629.
- Royster, Thomas, New Haven, Conn. Swimming device. No. 1,137,289; Apr. 27; Gaz. vol. 213; p. 1260.
- Rożewski, Bertold R., Arnhem, Netherlands. Propeller. No. 1,158,559; Nov. 2; Gaz. vol. 220; p. 54.
- Rozier, Albert, Wembley, England. Electric elevator. No. 1,141,979; June 8; Gaz. vol. 215; p. 349.
- Rubber & Celluloid Harness Trimming Co. (See Barry, Thomas F., assignor.)
- Rubber Regenerating Company. (See Price, Raymond B., assignor.)
- Rubber Regenerating Company. (See Warner and Price, assignors.)
- Rubel, Jacob, assignor to Standard Mail Order Company, New York, N. Y. Catamenial appliance. No. 1,144,253; June 22; Gaz. vol. 215; p. 1209.
- Rübel, Walter, Charlottenburg, Germany. Iron alloy. No. 1,128,726; Feb. 16; Gaz. vol. 211; p. 809.
- Rübel, Walter, Westend, near Berlin, Germany. Manufacturing an iron alloy for dynamo-electric purposes. No. 1,130,678; Mar. 2; Gaz. vol. 212; p. 293.
- Ruben, Charles, assignor of one-half to J. A. Ruben, Pittsburgh, Pa. Necktie. No. 1,159,099; Nov. 2; Gaz. vol. 220; p. 238.
- Ruben, Jacob A. (See Ruben, Charles, assignor.)
- Rubens, Morris, *et al.* (See Von Bültzingslöwen, Bruno, assignor.)
- Rubesky, William J., Minneapolis, Minn. Carbureter for explosion-engines. No. 1,140,000; May 18; Gaz. vol. 214; p. 876.
- Rubesky, William J., Minneapolis, Minn. Carbureter. No. 1,157,588; Oct. 19; Gaz. vol. 219; p. 844.
- Rubin, Charles F., assignor of one-half to J. T. Hobson, Milwaukee, Wis. Incandescent-light guard. No. 1,129,125; Feb. 23; Gaz. vol. 211; p. 987.
- Rubin, George, assignor to M. Kline, New York, N. Y. Holder or support for bath spray-pipes. No. 1,166,388; Dec. 28; Gaz. vol. 221; p. 1407.
- Rubin, Harris.** (See Jacobson and Rubin.)
- Rubin, Isaac H., Philadelphia, Pa. Producing a fashion-garment illustration. No. 1,136,170; Apr. 20; Gaz. vol. 213; p. 821.
- Rubinstien, Jacob. (See Krone and Rubinstein.)
- Rubinstein, Max. (See Krone and Rubinstein.)
- Rubinstein, Tobias L., assignor to The New Era Manufacturing Company, St. Louis, Mo. Apparel-shirt. No. 1,138,895; May 11; Gaz. vol. 214; p. 451.
- Ruble, Martin A., and C. M. Stevens, Esmond, N. D. Grain-car door. No. 1,157,124; Oct. 19; Gaz. vol. 219; p. 684.
- Rubly, William, Tuckahoe, N. Y. Wall-fastening. No. 1,159,420; Nov. 9; Gaz. vol. 220; p. 384.
- Rubricus, Frank I., New York, N. Y. Sensitizing composition for photographic paper. No. 1,126,872; Feb. 2; Gaz. vol. 211; p. 74.
- Ruby, Frederick W., assignor to Ruby Manufacturing Company, Jackson, Mich. Sign. No. 1,130,844; Mar. 9; Gaz. vol. 212; p. 383.
- Ruby, John E., Indianapolis, Ind. Animal-trap. No. 1,159,100; Nov. 2; Gaz. vol. 220; p. 238.
- Ruby Manufacturing Company. (See Leonard, Howard M., assignor.)
- Ruby Manufacturing Company. (See Ruby, Frederick W., assignor.)
- Ruch, Leonard H., Winchester, Tenn. Draft-equalizer. No. 1,147,647; July 20; Gaz. vol. 216; p. 976.
- Rucker, Robert T., Antioch, Tenn. Station-indicator. No. 1,146,207; July 13; Gaz. vol. 216; p. 451.
- Ruckes, Michael, Chicopee Falls, Mass. Combined weighing and counting machine. No. 1,161,009; Nov. 16; Gaz. vol. 220; p. 1001.
- Ruckes, Michael, assignor to National Scale Company, Chicopee, Mass. Elevating-truck. No. 1,165,714; Dec. 28; Gaz. vol. 221; p. 1167.
- Ruckle, Edward H., assignor to Hughes Electric Heating Company, Chicago, Ill. Electrical heating device. No. 1,128,366; Feb. 16; Gaz. vol. 211; p. 685.
- Ruckle, Edward H., assignor to Hughes Electric Heating Company, Chicago, Ill. Electrical heating element. No. 1,165,451; Dec. 28; Gaz. vol. 221; p. 1074.
- Rudd, George M. (See Ward and Rudd.)
- Rudd, Henry A., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Means for applying paraffin or the like to match-splints. No. 1,127,524; Feb. 9; Gaz. vol. 211; p. 341.
- Rudd, Henry M., Los Angeles, Cal. Portable incinerator. No. 1,124,529; Jan. 12; Gaz. vol. 210; p. 508.
- Rudd, Herbert F., Belpre, Kans. Pneumatic cushion. No. 1,141,360; June 1; Gaz. vol. 215; p. 97.
- Rudd, Otto, assignor to Simmons Manufacturing Company, Kenosha, Wis. Furniture construction. No. 1,165,345; Dec. 21; Gaz. vol. 221; p. 997.
- Ruddick, John J., Newton, assignor to United States Electric Signal Company, West Newton, Mass. Trolley-switch. No. 1,130,340; Mar. 2; Gaz. vol. 212; p. 173.
- Ruddick, John J., Newton, assignor to United States Electric Signal Company, West Newton, Mass. Electric railway signal system. No. 1,151,720; Aug. 31; Gaz. vol. 217; p. 1403.
- Ruddiman, Frank G., Muskegon, Mich. Running-board mat. No. 1,137,354; Apr. 27; Gaz. vol. 213; p. 1233.
- Rudduck, John F., Tacoma, Wash. Nursery-chair. No. 1,163,263; Dec. 7; Gaz. vol. 221; p. 185.
- Rude, Lester G., assignor of one-half to T. Gunness, Barnesville, Minn. Beefsteak-roller. No. 1,129,232; Feb. 23; Gaz. vol. 211; p. 1023.
- Rudeen, Arvid. (See Winquist, Victor, assignor.)
- Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Annealing magnetic material. No. 1,156,496; Oct. 12; Gaz. vol. 219; p. 434.
- Rudkin, William P., Britton, Okla. Motor-starting mechanism. No. 1,135,849; Apr. 13; Gaz. vol. 213; p. 669.
- Rudnich, Edwin. (See Light, Claus H., assignor.)
- Rudnicki, Joseph, Buffalo, N. Y. Vegetable-cutter. No. 1,150,969; Aug. 24; Gaz. vol. 217; p. 1102.
- Rudolf, Barnet, Bayonne, assignor to F. Dorison, Jersey City, N. J. Combined square, level, and compass. No. 1,137,169; Apr. 27; Gaz. vol. 213; p. 1214.
- Rudolf, Barnet, Bayonne, assignor to F. Dorison, Jersey City, N. J. Washboard with rubbing attachment. No. 1,158,859; Nov. 2; Gaz. vol. 220; p. 159.
- Rudolph, Emil C., Springfield, N. Y. Boiler attachment for locomotive fire-boxes. No. 1,142,731; June 8; Gaz. vol. 215; p. 611.
- Rudolph, Franklin, and E. W. Carnes, Chicago, Ill., assignors to American Can Company, New York, N. Y. Tin-plate-shipping package or holder. No. 1,150,455; Aug. 17; Gaz. vol. 217; p. 866.
- Rudolph, Frederick E., Chicago, Ill. Adjustable surfacer. No. 1,165,452; Dec. 28; Gaz. vol. 221; p. 1074.
- Rudolph, Ralph O. (See Algier, Andrew, assignor.)
- Rudolph Wurlitzer Manufacturing Company, The. (See McCormick, Frank L., assignor.)
- Rudolph Wurlitzer Manufacturing Company, The. (See Rose, Alfred A., assignor.)
- Rudolph Wurlitzer Manufacturing Company, The. (See Scharold, Joseph W., assignor.)
- Rudolph Wurlitzer Manufacturing Company, The. (See Schwarz, Julius, assignor.)
- Rudolphi, Frank, assignor to American Can Company, New York, N. Y. Two-pocket can-tester. No. 1,126,089; Jan. 26; Gaz. vol. 210; p. 1134.
- Rudolphi, Frank, assignor to American Can Company, New York, N. Y. Can-body support. No. 1,130,636; Mar. 2; Gaz. vol. 212; p. 278.
- Rudolphi, Frank, Montclair, N. J., assignor to American Can Company, New York, N. Y. Portable can-flange straightener. No. 1,152,437; Sept. 7; Gaz. vol. 218; p. 19.
- Rudolphi, Frank, Montclair, N. J., assignor to American Can Company, New York, N. Y. Sheet-metal containing and dispensing can. No. 1,158,077; Oct. 26; Gaz. vol. 219; p. 1080.
- Rudulph, Herman J., New York, N. Y., assignor to Mergenthaler Linotype Company. Mold for typographical machines. No. 1,157,808; Oct. 26; Gaz. vol. 219; p. 985.
- Rue, Lansing W., Lakefield, Minn. Waste-paper basket and burner. No. 1,147,189; July 20; Gaz. vol. 216; p. 814.
- Rueb, Jan, The Hague, Netherlands. Production of tin or tin compounds from pyritic or other tin ores, tin-ore concentrates, tin-waste, tin-plate waste, stanniferous slag, tin-slag, and the like. No. 1,124,174; Jan. 5; Gaz. vol. 210; p. 332.
- Ruekert, Ernest F., Providence, R. I. Take-up for flexible electric conductors. No. 1,153,829; Sept. 14; Gaz. vol. 218; p. 557.
- Ruegger, Eduard, assignor to Aktiengesellschaft der Maschinenfabriken Escher, Wyss & Cie., Zurich, Switzerland. Thrust-bearing. No. 1,151,739; Mar. 16; Gaz. vol. 212; p. 726.
- Ruegger, Eduard, Zurich, Switzerland, assignor to Escher, Wyss & Co. Automatic lubricator. No. 1,152,847; Sept. 7; Gaz. vol. 218; p. 172.

Alphabetical list of patentees—Continued.

- Ruehl, Edmund H., New Hamburg, Ontario, Canada. Sealing-cap for bottles. No. 1,126,287; Jan. 26; Gaz. vol. 210; p. 1204.
- Ruel, John H., Chicago, Ill. Folding and convertible holder for babies. No. 1,129,606; Feb. 23; Gaz. vol. 211; p. 1156.
- Ruff, Samuel, Brookline, Mass. Sectional box-rack. No. 1,147,975; July 27; Gaz. vol. 216; p. 1117.
- Rufley, George E. (See King and Rufley.)
- Ruffner, Edwin E., and G. F. Oakley, Jacksonville, Fla., assignors to E. E. Ruffner. Curtain-fixture. No. 1,151,050; Aug. 24; Gaz. vol. 217; p. 1130.
- Ruffner, Leslie, Indiana, Pa. Jar-closure. No. 1,147,190; July 20; Gaz. vol. 216; p. 814.
- Rugg, Carrie A., Grandview-on-Hudson, N. Y. Fastening device. No. 1,132,037; Mar. 16; Gaz. vol. 212; p. 836.
- Ruggaber, Joseph, *et al.* (See Highley, John P., assignor.)
- Ruggiero, Bartolo, *et al.* (See Mecco, Canio, assignor.)
- Ruggles, Charles S., Three Rivers, Mass. Fisherman's signaling device. No. 1,162,257; Nov. 30; Gaz. vol. 220; p. 1532.
- Ruggles, Louis G., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Multiple sheave-block. No. 1,165,363; Dec. 21; Gaz. vol. 221; p. 1004.
- Ruggles, William B., Bayonne, N. J. Furnace. No. 1,150,887; Aug. 24; Gaz. vol. 217; p. 1074.
- Rugh, Harry O., Sandwich, Ill., assignor, by mesne assignments, to Hall Switch & Signal Company. Selective call device. No. 1,136,838; Apr. 20; Gaz. vol. 213; p. 1059.
- Rugh, Harry O., assignor to Railway Electric Manufacturing Co., Chicago, Ill. Voting-machine control. No. 1,141,074; May 25; Gaz. vol. 214; p. 1284.
- Rugh, Harry O., assignor to Railway Electric Manufacturing Co., Chicago, Ill. Voting-machine. No. 1,141,075; May 25; Gaz. vol. 214; p. 1285.
- Rugh, Harry O., assignor to Railway Electric Manufacturing Co., Chicago, Ill. Voting-machine. No. 1,142,058; June 8; Gaz. vol. 215; p. 378.
- Ruhe, Carleton, Olean, N. Y. Machine for brushing sole-leather. (Reissue.) No. 13,984; Sept. 21; Gaz. vol. 218; p. 856.
- Ruhe, Carleton, Olean, N. Y. Leather-brushing machine. No. 1,151,826; Aug. 31; Gaz. vol. 217; p. 1442.
- Ruhe, Carleton, Olean, N. Y. Machine for treating leather. No. 1,154,341; Sept. 21; Gaz. vol. 218; p. 768.
- Ruhm Phosphate Mining Company. (See Davison, George L., assignor.)
- Rullman, Walter A., Red Bank, N. J. Cereal preparation. No. 1,163,175; Dec. 7; Gaz. vol. 221; p. 155.
- Rumbough, Charlie M., and M. C. Jones, Lohn, Tex. Stalk-cutter. No. 1,160,328; Nov. 16; Gaz. vol. 220; p. 759.
- Rumely, William N., and W. C. Robby, assignors to Illinois Thresher Company, Sycamore, Ill. Interchangeable grain thresher and huller. No. 1,126,288; Jan. 26; Gaz. vol. 210; p. 1205.
- Rummel, James W., Windber, Pa. Tool-handle. No. 1,153,340; Sept. 14; Gaz. vol. 218; p. 382.
- Rumney, Fred A., Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Means for supplying articles. No. 1,146,024; July 13; Gaz. vol. 216; p. 387.
- Rumold, Christian F., Berea, Ky. Railway signal and control apparatus. No. 1,137,089; Apr. 27; Gaz. vol. 213; p. 1185.
- Rumold, Christian F., Berea, Ky. Centrifugal circuit-breaker. No. 1,137,908; May 4; Gaz. vol. 214; p. 64.
- Rumold, Christian F., Berea, Ky. Railway signal apparatus. No. 1,141,147; June 1; Gaz. vol. 215; p. 19.
- Rumolino, Santo, Genoa, Italy. Electrical arrangement for the control of the speed of sea-engines. No. 1,134,490; Apr. 6; Gaz. vol. 213; p. 149.
- Rumpel, Henry. (See Miller and Rumpel.)
- Rumpel, Julius, Weston, Mo. Receptacle. No. 1,130,932; Mar. 9; Gaz. vol. 212; p. 414.
- Rumple, William J., Omaha, assignor, by mesne assignments, to L. C. Sharp, Plattsmouth, Nebr. Machine for making pastry. No. 1,151,548; Aug. 24; Gaz. vol. 217; p. 1299.
- Ruinrill, Frank. (See Campbell, Duncan R., assignor.)
- Rumsey, Charles B., Tuscaloosa, Ala. Shaper attachment. No. 1,154,729; Sept. 28; Gaz. vol. 218; p. 928.
- Rumsey, Charles B., Tampa, assignor to L. B. Skinner Manufacturing Co., Dunedin, Fla. Box-press. No. 1,163,466; Dec. 7; Gaz. vol. 221; p. 256.
- Rumsey, James W., Chicago, Ill., assignor of one-half to O. Hugin, Califa, Cal. Car-door. (Reissue.) No. 13,992; Oct. 12; Gaz. vol. 219; p. 565.
- Rundel, C. H., *et al.* (See Wiley, John I., assignor.)
- Rundgren, John, assignor, by mesne assignments, to "Railway Supplies Limited," Vancouver, British Columbia, Canada. Fish-plate. No. 1,126,289; Jan. 26; Gaz. vol. 210; p. 1205.
- Rundle, Fred A., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Combination automatic and lowering brake for hoisting-machines. No. 1,153,957; Sept. 21; Gaz. vol. 218; p. 635.
- Rundle, George W., Spokane, Wash. Baby-jumper. No. 1,126,291; Jan. 26; Gaz. vol. 210; p. 1206.
- Rundle, George W., Spokane, Wash. Propulsion mechanism. No. 1,154,208; Sept. 21; Gaz. vol. 218; p. 729.
- Rundle, George W., Spokane, Wash., assignor to George W. Rundle & Company. Baby-jumper. No. 1,126,290; Jan. 26; Gaz. vol. 210; p. 1206.
- Rundle, George W., Spokane, Wash., assignor to Rundle Novelty Company. Convertible chair. No. 1,147,191; July 20; Gaz. vol. 216; p. 815.
- Rundle Novelty Company. (See Rundle, George W., assignor.)
- Rundle-Spence Manufacturing Company. (See Schwiblinger, George, assignor.)
- Rundle, William, Johannesburg, Transvaal, South Africa. Railway-vehicle coupling. No. 1,153,577; Sept. 14; Gaz. vol. 218; p. 470.
- Rundlöf, Erik A., Stocksund, Sweden. Coupling. No. 1,144,067; June 22; Gaz. vol. 215; p. 1142.
- Rundquist, William, assignor of one-fourth to A. Tyler, one-fourth to D. Smith, one-fourth to D. H. Rotcher, and one-fourth to A. H. Sprowls, Elgin, Ill. Package-tie. No. 1,163,777; Dec. 14; Gaz. vol. 221; p. 411.
- Runge, Charles B., Chicago, Ill. Window-cleaning device. No. 1,140,001; May 18; Gaz. vol. 214; p. 876.
- Runge, William, Seneca Falls, N. Y., assignor to The Seneca Falls Mfg. Co. Micrometer gage or stop device for lathes. No. 1,127,525; Feb. 9; Gaz. vol. 211; p. 342.
- Runk, William B. (See Bradshaw and Runk.)
- Runne, Ernst. (See Schmidt, Krönlén, and Runne.)
- Runne, Henry, Brockport, N. Y. Veneer jointing and taping machine. No. 1,126,292; Jan. 26; Gaz. vol. 210; p. 1206.
- Runne, Henry, Brockport, N. Y. Veneer-jointing machine. No. 1,154,730; Sept. 28; Gaz. vol. 218; p. 929.
- Runya, Arthur L. (See Falls and Runyan.)
- Runyon, Charles G. (See Grayson, Luther W., assignor.)
- Ruopp, William C., assignor to National Steam Pump Company, Upper Sandusky, Ohio. Igniter. No. 1,145,269; July 6; Gaz. vol. 216; p. 102.
- Rupert, Edward A., and J. T. Drum, Aberdeen, Wash.; said Drum assignor to said Rupert. Fireproof film-box. No. 1,152,052; Aug. 31; Gaz. vol. 217; p. 1519.
- Rupert, George G., Decatur, assignor of one-half to W. T. Russell, Macon, Ill. Bicycle attachment. No. 1,130,933; Mar. 9; Gaz. vol. 212; p. 414.
- Rupnow, William L., Kansas City, Mo. Gear-drive hoist for elevators. No. 1,128,525; Feb. 16; Gaz. vol. 211; p. 741.
- Rupp, Henry D. (See Rupp, Herbert E., assignor.)
- Rupp, Herbert E., assignor of one-half to H. D. Rupp, Westbrook, Minn. Corn snapping and husking rolls. No. 1,123,806; Jan. 5; Gaz. vol. 210; p. 207.
- Rupp, Louis C., Kansas City, Mo. Stand for cake-canisters. No. 1,125,182; Jan. 19; Gaz. vol. 210; p. 777.
- Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Lighting device for gas-stoves. No. 1,125,726; Jan. 19; Gaz. vol. 210; p. 972.
- Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Blue-flame wick-burner. No. 1,143,072; June 15; Gaz. vol. 215; p. 773.
- Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Wick-burner and wick. No. 1,146,658; July 13; Gaz. vol. 216; p. 610.
- Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Blue-flame wick oil-burner. No. 1,159,101; Nov. 2; Gaz. vol. 220; p. 239.
- Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Perforated combustion-tube. No. 1,159,102; Nov. 2; Gaz. vol. 220; p. 239.
- Ruppert, Austin J., Forreston, Ill. Clothes-pounder. No. 1,152,438; Sept. 7; Gaz. vol. 218; p. 20.
- Rusby, John M., assignor to The United Gas Improvement Company, Philadelphia, Pa. Heating coal-gas-retort chambers and the like. No. 1,140,337; May 18; Gaz. vol. 214; p. 993.
- Rusby, John M., assignor to The United Gas Improvement Company, Philadelphia, Pa. Means for controlling the quantity and quality of the production of gas. No. 1,165,715; Dec. 28; Gaz. vol. 221; p. 1167.
- Rush, Allan C., Los Angeles, Cal. Pivotal suspension-bridge. No. 1,146,283; July 13; Gaz. vol. 216; p. 477.
- Rush, Felix J., New York, N. Y. Insect-guard. No. 1,161,219; Dec. 14; Gaz. vol. 221; p. 563.
- Rush, Frank E., Sullivan, Ind. Wrench. No. 1,155,278; Sept. 28; Gaz. vol. 218; p. 1113.
- Rush, Fred O., Wilmington, Del. Dipper-tooth for excavating-machines. No. 1,131,426; Mar. 9; Gaz. vol. 212; p. 584.
- Rush, Martin V., Anderson, Ind. Foot-measuring device. No. 1,137,233; Apr. 27; Gaz. vol. 213; p. 1238.
- Rush, W. B. (See Knight, Frank H., assignor.)
- Rusfeldt, Edward, Grand Forks, N. D. Cuspidor-carrier. No. 1,137,909; May 4; Gaz. vol. 214; p. 65.
- Rushton, John L., Muscatine, Iowa. Saw-guard. No. 1,154,209; Sept. 21; Gaz. vol. 218; p. 720.
- Rushton, John W., assignor to Waltham Watch Company, Waltham, Mass. Watch movement and case. No. 1,128,526; Feb. 16; Gaz. vol. 211; p. 741.
- Rushton, Kenneth. (See Vauclain and Rushton.)
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Shifting mechanism for valve-gears. No. 1,141,008; May 25; Gaz. vol. 214; p. 1263.

Alphabetical list of patentees—Continued.

- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Screw reverse valve mechanism for locomotives. No. 1,145,800; July 6; Gaz. vol. 216; p. 288.
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Driving-axle box for locomotives. No. 1,146,659; July 13; Gaz. vol. 216; p. 610.
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Lever mechanism for operating throttle-valves. No. 1,149,951; Aug. 10; Gaz. vol. 217; p. 628.
- Rushton, Thomas, Upper Holloway, London, England. Electrically-driven clock. No. 1,138,979; May 11; Gaz. vol. 214; p. 480.
- Rushworth, George A. W., Manchester, England. Duplicator-machine and the like. No. 1,149,952; Aug. 10; Gaz. vol. 217; p. 628.
- Rushworth, George A. W., Manchester, England. Duplicating-machine. No. 1,149,953; Aug. 10; Gaz. vol. 217; p. 629.
- Rushworth, Leroy A. (See Fullerton, Rushworth, and Paeth.)
- Rusk, Chauncey B., Galion, Ohio. Truck brake and handle. No. 1,134,015; Mar. 30; Gaz. vol. 212; p. 1629.
- Rusk, Edward W., et al. (See Bryan, Pulaski J., assignor.)
- Russ Automatic Labeling Co. (See Shults, James C., assignor.) (Reissue.)
- Russel, Albert W. (See Culver and Russel.)
- Russel, John W., Marietta, Pa. Molding. No. 1,150,631; Aug. 17; Gaz. vol. 217; p. 928.
- Russel Motor Axle Company. (See Culver and Russel, assignors.)
- Russell, Alexander C. M., Benton Harbor, Mich. Grapeshears. No. 1,123,929; Jan. 5; Gaz. vol. 210; p. 249.
- Russell, Andrew N., Ticonderoga, N. Y. Paper-bulker. No. 1,145,924; July 13; Gaz. vol. 216; p. 351.
- Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for use in the manufacture of boots and shoes. No. 1,124,957; Jan. 12; Gaz. vol. 210; p. 661.
- Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting toes. No. 1,124,958; Jan. 12; Gaz. vol. 210; p. 661.
- Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Means for binding toes of uppers in lasted position. No. 1,124,960; Jan. 12; Gaz. vol. 210; p. 662.
- Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-lasting machine. No. 1,132,978; Mar. 23; Gaz. vol. 212; p. 1229.
- Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Rotary tool for operating on parts of shoes. No. 1,149,859; Aug. 10; Gaz. vol. 217; p. 595.
- Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,163,597; Dec. 7; Gaz. vol. 221; p. 301.
- Russell, Arthur L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 1,124,959; Jan. 12; Gaz. vol. 210; p. 662.
- Russell, Arthur L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Operating mechanism for grippers and slitters or the like. No. 1,125,886; Jan. 19; Gaz. vol. 210; p. 1026.
- Russell, Burdall & Ward Bolt and Nut Co. (See Ward and Rudd, assignors.)
- Russell, Burdall & Ward Bolt and Nut Co. (See Ward, Remsen, and Boerner, assignors.)
- Russell, Burdall & Ward Bolt and Nut Company. (See Rigney, William D., assignor.)
- Russell Calvin, assignor to C. H. Russell, Penn Yan, N. Y. Roof. No. 1,145,440; July 6; Gaz. vol. 216; p. 162.
- Russell, Carrie H. (See Russell, Calvin, assignor.)
- Russell, Charles B., Buffalo, N. Y. Cutting-stick for paper-cutting machines and the like. No. 1,123,386; Jan. 5; Gaz. vol. 210; p. 65.
- Russell, Charles C., Chicago, Ill. Car-door hanger. No. 1,142,532; June 8; Gaz. vol. 215; p. 546.
- Russell, Charles D., St. Paul, Minn. Railway-spike. No. 1,124,160; Apr. 6; Gaz. vol. 213; p. 27.
- Russell, Charles N. (See Ray and Russell.)
- Russell, Clinton W., Detroit, Mich. Bunk for logging-cars. No. 1,124,530; Jan. 12; Gaz. vol. 210; p. 508.
- Russell, Clinton W., Detroit, Mich. Brake system for detachable-truck trains. No. 1,161,978; Nov. 30; Gaz. vol. 220; p. 1434.
- Russell and Company, The. (See Heggem, Charles O., assignor.)
- Russell Company, The. (See Kinsley, William S., assignor.)
- Russell, Earl F. L., Denver, Colo., assignor, by mesne assignments, of one-half to E. E. Russell, Wakefield, Kans. Carbureter. No. 1,127,286; Feb. 2; Gaz. vol. 211; p. 219.
- Russell, Edward P., et al. (See Beadle, George W., assignor.)
- Russell, Edwin L., Cleveland, Ohio. Valve. No. 1,153,708; Sept. 14; Gaz. vol. 218; p. 515.
- Russell, Edwin L., Cleveland, Ohio. Valve adjuster and driver. No. 1,153,709; Sept. 14; Gaz. vol. 218; p. 515.
- Russell, Edwin L., Cleveland, Ohio. Valve adjuster and driver. No. 1,153,710; Sept. 14; Gaz. vol. 218; p. 516.
- Russell, Edwin L., Detroit, Mich. Valve adjuster and driver. No. 1,153,711; Sept. 14; Gaz. vol. 218; p. 516.
- Russell, Edwin L., Cleveland, Ohio, assignor to E. W. Ansted, Connellsville, Ind. Valve actuating and adjusting mechanism. No. 1,153,707; Sept. 14; Gaz. vol. 218; p. 514.
- Russell, Ella E. (See Russell, Earl F. L., assignor.)
- Russell, Elmer L., Cleveland, Okla. Aeroplane. No. 1,160,768; Nov. 16; Gaz. vol. 220; p. 917.
- Russell, Emerson C., Chicago, Ill. Starting device for motor-vehicles. No. 1,155,511; Oct. 5; Gaz. vol. 219; p. 66.
- Russell, Ernest C., U. S. Revenue Cutter Service. Stretcher for cap-covers. No. 1,148,718; Aug. 3; Gaz. vol. 217; p. 84.
- Russell, Frank, Sydney, New South Wales, Australia. Clamp for securing repair-gaiters on pneumatic tires. No. 1,147,976; July 27; Gaz. vol. 216; p. 1117.
- Russell, Frank K. (See Edwards and Russell.)
- Russell, Frank N., and O. S. Lind, Chicago, Ill. Automatic saw-filing device. No. 1,144,254; June 22; Gaz. vol. 215; p. 1209.
- Russell, George A. (See Smith, Oliver A., assignor.)
- Russell, George A., Maysville, Mo. Safety-envelope. No. 1,150,888; Aug. 24; Gaz. vol. 217; p. 1074.
- Russell, George H., Florence, Ala. Fireplace heating appliance. No. 1,152,912; Sept. 7; Gaz. vol. 218; p. 195.
- Russell, George H., assignor of one-half to P. Norvell, Florence, Ala. Rail-joint. No. 1,157,640; Oct. 19; Gaz. vol. 219; p. 861.
- Russell Grader Manufacturing Company. (See Anderson, Axel, assignor.)
- Russell, Hiram S., Provo, Utah. Machine for topping beets. No. 1,166,083; Dec. 28; Gaz. vol. 221; p. 1294.
- Russell, Howard E. (See Randall, Victor E., assignor.)
- Russell, Howard E. (See Randall and Russell.)
- Russell, J. M. (See Clark, James H., assignor.)
- Russell, Jerome E., Rodd, Iowa. Carbureter. No. 1,148,461; July 27; Gaz. vol. 216; p. 1288.
- Russell, Jesse M. (See Clark, James H., assignor.)
- Russell, Manning W., Keithville, La. Mole-trap. No. 1,135,052; Apr. 13; Gaz. vol. 213; p. 391.
- Russell, Manning W., assignor of one-half to V. M. Rich, Keatchie, La. Mole-trap. No. 1,165,209; Dec. 21; Gaz. vol. 221; p. 952.
- Russell Manufacturing Company. (See Russell, Whitman, assignor.)
- Russell, Maude W., Cartersville, assignor to Maude W. Russell New Method Dress Tailoring and Garment Cutting Co., Inc., Joplin, Mo. Garment-templet. No. 1,149,468; Aug. 10; Gaz. vol. 217; p. 452.
- Russell, Nelson J., Minneapolis, Minn. Actuating mechanism for gas-generating machines. No. 1,138,151; May 4; Gaz. vol. 214; p. 152.
- Russell, Nelson J., Chicago, Ill. Fuel-saving attachment for furnaces. No. 1,150,456; Aug. 17; Gaz. vol. 217; p. 866.
- Russell, Robert C., assignor to K. D. Cabinet Company, Richmond, Ind. Squaring, spacing, and gluing clamp. No. 1,128,527; Feb. 16; Gaz. vol. 211; p. 741.
- Russell, Thomas N., Chicago, Ill. Car-coupling-centering device. No. 1,150,457; Aug. 17; Gaz. vol. 217; p. 867.
- Russell, Thomas N., Chicago, Ill. Car-coupling-centering device. No. 1,150,458; Aug. 17; Gaz. vol. 217; p. 867.
- Russell, Thomas N., assignor to Chicago Cleveland Car Roofing Company, Chicago, Ill. Carline. No. 1,145,615; July 6; Gaz. vol. 216; p. 222.
- Russell, Thomas N., Chicago, Ill., assignor to Harry Vlserring & Company, Louisville, Ky. Brake-step. No. 1,160,090; Nov. 9; Gaz. vol. 220; p. 622.
- Russell, Whitman, assignor to Russell Manufacturing Company, Greenfield, Mass. Screw-cutting die. No. 1,130,542; Mar. 2; Gaz. vol. 212; p. 247.
- Russell, William A. (See Stewart and Russell.)
- Russell, William E., Upper Wortley, Leeds, England. Type-writer. No. 1,141,831; June 1; Gaz. vol. 215; p. 260.
- Russell, William H., St. Clair, Pa. Charge-beating attachment for explosive-engines. No. 1,153,448; Sept. 14; Gaz. vol. 218; p. 422.
- Russell, William T. (See Rupert, George G., assignor.)
- Russell, Zachary T., Hattiesburg, Miss. Rotary engine. No. 1,160,450; Nov. 16; Gaz. vol. 220; p. 801.
- Russia Cement Company. (See Phillips, Nathan C., assignor.)
- Russum, Thomas H., Baltimore, Md. Metal vestibule-diaphragm. No. 1,157,182; Oct. 19; Gaz. vol. 219; p. 704.
- Rust, Clifford G., Marion, Ind. Music-leaf turner. No. 1,144,917; June 29; Gaz. vol. 215; p. 1464.
- Rust, Ira C., Farmland, Ind. Hay-press. No. 1,164,121; Dec. 14; Gaz. vol. 221; p. 531.
- Rust, Orton G., assignor of one-half to T. J. Rebert, Springfield, Ohio. Display device. No. 1,140,318; May 18; Gaz. vol. 214; p. 986.
- Rust, William J., Solihull, Ill. Cover for receptacles. No. 1,141,832; June 1; Gaz. vol. 215; p. 260.
- Rustige, Frans J. H., Stockholm, Sweden. Automatic intermittent-light apparatus. No. 1,140,617; May 25; Gaz. vol. 214; p. 1127.

- Rustige, Frans J. H., assignor to Aktiebolaget Lux, Limited, Stockholm, Sweden. Automatic double flash-light apparatus. No. 1,146,453; July 13; Gaz. vol. 216; p. 540.
- Rustige, Frans J. H., assignor to Aktiebolaget Lux, Stockholm Sweden. Intermittently-operated gas-valve. No. 1,157,422; Oct. 19; Gaz. vol. 219; p. 790.
- Rutan, William, assignor to Gillis & Geoghegan, New York, N. Y. Locking device for hoisting apparatus. No. 1,163,176; Dec. 7; Gaz. vol. 221; p. 155.
- Rutenber, Edwin A., Logansport, Ind. Resistance for electric heaters. No. 1,139,076; May 11; Gaz. vol. 214; p. 515.
- Rüttgerswerke Aktiengesellschaft. (See Seidenschneur and Dehnst, assignors.)
- Ruth, Andrew E., Baltimore, Md. Ratchet compound spud-wrench. No. 1,155,960; Oct. 5; Gaz. vol. 219; p. 221.
- Ruth, Walter H., Greensburg, Kans. Harrow attachment. No. 1,143,785; June 22; Gaz. vol. 215; p. 1043.
- Rutherford, Brabazon, *et al.* (See Jones, Joshua J., assignor.)
- Rutherford, Charles A., Kaw, Okla. Seeder attachment for cultivators. No. 1,152,224; Aug. 31; Gaz. vol. 217; p. 1578.
- Rutherford, Charles H., Jerome, Ariz. Hat-Fastener. No. 1,132,038; Mar. 16; Gaz. vol. 212; p. 836.
- Rutherford, Eugene W., Naugatuck, Conn., assignor to Goodyear's Metallic Rubber Shoe Company. Vulcanizing apparatus. No. 1,161,892; Nov. 30; Gaz. vol. 220; p. 1408.
- Rutherford, Henry L., Montreal, Quebec, Canada. Printing-press. No. 1,158,560; Nov. 2; Gaz. vol. 220; p. 54.
- Rutherford, William, Seattle, Wash. Detachable tip for billiard-cues. No. 1,123,807; Jan. 5; Gaz. vol. 210; p. 208.
- Rutherford, William P. (See Arnold and Rutherford.)
- Ruthrauff, William M., Tucson, Ariz. Dentifrice. No. 1,133,250; Mar. 23; Gaz. vol. 212; p. 1325.
- Rutland, Robert A., Alapaha, Ga. Portable shower-bath. No. 1,147,648; July 20; Gaz. vol. 216; p. 977.
- Rutledge, George E., assignor to Vassar Swiss Underwear Company, Chicago, Ill. Undergarment. No. 1,162,655; Nov. 30; Gaz. vol. 220; p. 1663.
- Rutledge, John M., Midvale, Ohio. Pipe and rod wrench. No. 1,123,598; Jan. 5; Gaz. vol. 210; p. 137.
- Ruttan, Alfred A., Rochester, N. Y. Saw-guard. No. 1,140,400; May 25; Gaz. vol. 214; p. 1050.
- Ruttan, Henry N. (See Leighton and Ruttan.)
- Rutter, Alfred, Mentone, Victoria, Australia. Sterilizing milk, cream, beverages, and other alimentary substances. No. 1,140,717; May 25; Gaz. vol. 214; p. 1160.
- Ruttle, Edgar, Covington, Ky. Automobile heating device. No. 1,132,391; Mar. 16; Gaz. vol. 212; p. 965.
- Rutz, Arnold O., Milwaukee, Wis. Torch-light tip for natural gas. No. 1,160,329; Nov. 16; Gaz. vol. 220; p. 759.
- Rutzen, August C., Cleveland, Ohio. Speed indicating and controlling device. No. 1,163,264; Dec. 7; Gaz. vol. 221; p. 185.
- Rutzen, August C., Cleveland, Ohio. Casing for dynamo-electric machines. No. 1,163,265; Dec. 7; Gaz. vol. 221; p. 186.
- Rutzke, Frederick W., Wellston, Mo. Window-shade fixture. No. 1,149,294; Aug. 10; Gaz. vol. 217; p. 391.
- Rutzke, Herman, *et al.* (See Heinze, Gustav A., assignor.)
- Ruud, Edwin, assignor to Ruud Manufacturing Company, Pittsburgh, Pa. Refrigerating apparatus. No. 1,153,712; Sept. 14; Gaz. vol. 218; p. 516.
- Ruud Manufacturing Company. (See Humphrey, Herbert S., assignor.)
- Ruud Manufacturing Company. (See Ruud, Edwin, assignor.)
- Ruysdael, Basil, New York, N. Y. Collapsible tube. No. 1,125,402; Jan. 19; Gaz. vol. 210; p. 857.
- Ryan, Andrew, Knob, assignor of one-half to A. M. Dean, Redding, Cal. Snow-plow. No. 1,155,099; Sept. 28; Gaz. vol. 218; p. 1057.
- Ryan, Andrew H., Medina, Ohio. Distributing-nozzle. No. 1,152,225; Aug. 31; Gaz. vol. 217; p. 1579.
- Ryan, Edward J., Buffalo, N. Y. Standard or pedestal. No. 1,129,908; Mar. 2; Gaz. vol. 212; p. 26.
- Ryan, Frederick H., Boston, Mass. Machine for sharpening razors and other edge-tools. No. 1,148,462; July 27; Gaz. vol. 216; p. 1289.
- Ryan, James. (See Davis, Ray W., assignor.)
- Ryan, James B., Chicago, Ill. Loose-leaf binder. No. 1,129,233; Feb. 23; Gaz. vol. 211; p. 1023.
- Ryan, John. (See Bolton, Joseph, assignor.)
- Ryan, John A. (See Mass, Henry W., assignor.)
- Ryan, John A., assignor of one-half to J. W. Aldridge, Hot Springs, S. D. Rattle. No. 1,158,298; Oct. 26; Gaz. vol. 219; p. 1158.
- Ryan, John F., Winthrop, Mass. Making waterproof materials and coatings. No. 1,132,687; Mar. 23; Gaz. vol. 212; p. 1122.
- Ryan, John H., assignor of one-half to L. L. Rowland, Overbrook, Pa. Current-indicator. No. 1,148,481; July 27; Gaz. vol. 216; p. 1296.
- Ryan, John J., Cincinnati, Ohio, and C. C. Smith, assignors to Smith-Ryan Boat and Engine Co., Algonac, Mich. Boat. No. 1,157,423; Oct. 19; Gaz. vol. 219; p. 791.
- Ryan, John W., Springfield, Ill. Rail-joint. No. 1,133,185; Mar. 23; Gaz. vol. 212; p. 1304.
- Ryan, John W., Springfield, Ill. Tie for railway-rails. No. 1,151,051; Aug. 24; Gaz. vol. 217; p. 1130.
- Ryan, Lawrence F., New York, N. Y. Window guard and sign. No. 1,123,930; Jan. 5; Gaz. vol. 210; p. 249.
- Ryan, Mark J., Cincinnati, Ohio. Burglar and fire alarm. No. 1,156,497; Oct. 12; Gaz. vol. 219; p. 434.
- Ryan, Michael B., Bridgeport, Conn. Machine for manufacturing welded wire chains. No. 1,123,599; Jan. 5; Gaz. vol. 210; p. 137.
- Ryan, Michael B., Boston, Mass. Machine for making welded chains. No. 1,123,931; Jan. 5; Gaz. vol. 210; p. 249.
- Ryan, Michael B., Bridgeport, Conn. Machine for electrically welding the links of chains, rings, or the like. No. 1,150,150; Aug. 17; Gaz. vol. 217; p. 760.
- Ryan, Michael C., Phoenix, N. Y. Thermal switch. No. 1,150,706; Aug. 17; Gaz. vol. 217; p. 954.
- Ryan, Michael E., Fall River, Mass. Combined shaving and clipping machine. No. 1,152,911; Sept. 7; Gaz. vol. 218; p. 195.
- Ryan, Nicholas W. (See Delane, Anson W., assignor.)
- Ryan, Oscar D., assignor of one-half to J. J. Edmiston, New Lexington, Ohio. Sewer-trap. No. 1,128,528; Feb. 16; Gaz. vol. 211; p. 742.
- Ryan, Patrick J., Minneapolis, Minn. Detachable horse-shoe-calk. No. 1,141,726; June 1; Gaz. vol. 215; p. 226.
- Ryan, Robert M. (See Baty and Ryan.)
- Ryan, Thomas, Churdan, Iowa. Wagon end-gate. No. 1,156,182; Oct. 12; Gaz. vol. 219; p. 323.
- Ryan, Thomas W., Concord Junction, Mass. Ball-cock. No. 1,163,370; Dec. 7; Gaz. vol. 221; p. 223.
- Ryan, William A., Chicago, Ill. Moving-picture apparatus. No. 1,153,341; Sept. 14; Gaz. vol. 218; p. 383.
- Ryan, William J., Toronto, Ontario, Canada. Piano-tuning hammer. No. 1,123,932; Jan. 5; Gaz. vol. 210; p. 250.
- Ryan, William P., assignor of one-half to E. K. Burnham, Gloucester, Mass. Fishing-trawl. No. 1,138,896; May 11; Gaz. vol. 214; p. 451.
- Ryan, Winfred T., Vandergrift, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Shear-table. No. 1,150,541; Aug. 17; Gaz. vol. 217; p. 897.
- Ryason, Samuel M., Kirkwood, Ill. Trap. No. 1,152,980; Sept. 7; Gaz. vol. 218; p. 220.
- Ryberg, Charles O., Brockton, Mass. Fabric for mats. No. 1,160,201; Nov. 16; Gaz. vol. 220; p. 715.
- Ryberg, Charles O., Brockton, Mass., assignor to Campello Nailless Heel Company. Heel-press. No. 1,153,299; Oct. 26; Gaz. vol. 219; p. 1158.
- Ryberg, John W., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,157,729; Oct. 26; Gaz. vol. 219; p. 959.
- Ryce, Edward B., and W. Wallace, Louisiana, Mo. Electric heater. No. 1,151,403; Aug. 24; Gaz. vol. 217; p. 1247.
- Rychiger, Rudolf, Thun, Switzerland. Firearm. No. 1,135,722; Apr. 13; Gaz. vol. 213; p. 624.
- Ryckman, Andrew, Waukegan, Ill. Gearing. No. 1,139,808; May 18; Gaz. vol. 214; p. 807.
- Rydell, Carl, Manila, Philippine Islands. Life-saving apparatus. No. 1,138,319; May 4; Gaz. vol. 214; p. 210.
- Rydell, David, Foreston, Minn. Barrel-cart. No. 1,142,630; June 8; Gaz. vol. 215; p. 579.
- Ryden, Axel, and C. H. Stahl, Chicago, Ill. Lock-nut. No. 1,163,177; Dec. 7; Gaz. vol. 221; p. 155.
- Ryden, Claes, Cranston, R. I., assignor to Universal Winding Company, Portland, Me. Adjustable traverse-guide. No. 1,133,186; Mar. 23; Gaz. vol. 212; p. 1304.
- Ryden, Claes, Cranston, R. I., assignor to Universal Winding Company, Portland, Me. Winding-machine. No. 1,141,583; June 1; Gaz. vol. 215; p. 177.
- Ryden, Claes, Providence, R. I., assignor to Universal Winding Company, Portland, Me. Winding-machine. No. 1,138,320; May 4; Gaz. vol. 214; p. 210.
- Ryder, Ambrose, Carmel, N. Y. Umbrella. No. 1,126,293; Jan. 26; Gaz. vol. 210; p. 1207.
- Ryder, Herbert D. (See Edwards and Greene, assignors.)
- Ryder, Hermit W., Mountain Grove, Va. Rail-joint. No. 1,130,200; Mar. 2; Gaz. vol. 212; p. 125.
- Ryder, Joshua H., Brockton, assignor of one-half to G. I. Pettengill, Boston, Mass. Attachment for sinks, wash-tubs, and the like. No. 1,152,552; Sept. 7; Gaz. vol. 218; p. 64.
- Ryder, Malcolm P., Springfield, Mass. Igniter for internal-combustion engines. No. 1,129,234; Feb. 23; Gaz. vol. 211; p. 1023.
- Ryder, Malcolm P., Springfield, Mass. Starting device for internal-combustion engines. No. 1,166,084; Dec. 28; Gaz. vol. 221; p. 1294.
- Ryder, Thomas E., St. John, New Brunswick, Canada. Automatic pneumatic pump. No. 1,129,362; Feb. 23; Gaz. vol. 211; p. 1069.
- Rydquist, Oscar R., St. Croix Falls, Wis. Oil-can. No. 1,138,794; May 11; Gaz. vol. 214; p. 416.

Alphabetical list of patentees—Continued.

- Ryland, Caius T., Sonoma, Cal. Automatic balancing and steering device. No. 1,150,542; Aug. 17; Gaz. vol. 217; p. 897.
- Ryland, William J., Buckhannon, W. Va. Mail-box. No. 1,128,529; Feb. 16; Gaz. vol. 211; p. 742.
- Rylander, Frank, Dumont, Colo. Dust-collector for rock-drills. No. 1,131,009; Mar. 9; Gaz. vol. 212; p. 439.
- Ryley, Alfred G., assignor to The McCaskey Register Company, Canton, Ohio. Account-register. No. 1,143,073; June 15; Gaz. vol. 215; p. 773.
- Ryley, Alfred G., Canton, assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Account-register. No. 1,150,889; Aug. 17; Gaz. vol. 217; p. 844.
- Rymal, George J., Denver, Colo. Stove. No. 1,125,183; Jan. 19; Gaz. vol. 210; p. 777.
- Rymal, George J., Denver, Colo. Combined hot-water heater and kitchen-range. No. 1,128,053; Feb. 9; Gaz. vol. 211; p. 528.
- Ryman, Frank. (See Clark and Ryman.)
- Rymer, John E., assignor to F. F. Herndon, Charleston, S. C. Rubber-stamp board. No. 1,155,279; Sept. 28; Gaz. vol. 218; p. 1114.
- Rymer, John H., Etowah, Tenn. Transposing-keyboard. No. 1,146,104; July 13; Gaz. vol. 216; p. 415.
- Ryner, Hubert P., Omaha, Nebr., assignor to Hoeschen Manufacturing Company. Signal-actuating mechanism. No. 1,165,540; Dec. 28; Gaz. vol. 221; p. 1104.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,128,367; Feb. 16; Gaz. vol. 211; p. 686.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin-stripper. No. 1,136,051; Apr. 20; Gaz. vol. 213; p. 779.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,142,121; June 8; Gaz. vol. 215; p. 402.
- Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,144,946; June 29; Gaz. vol. 215; p. 1474.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling stop-motion. No. 1,151,287; Aug. 24; Gaz. vol. 217; p. 1210.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling stop-motion. No. 1,151,288; Aug. 24; Gaz. vol. 217; p. 1210.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Swivel-loom. No. 1,161,345; Nov. 23; Gaz. vol. 220; p. 1167.
- Rypinski, Albert B., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Meter. No. 1,138,690; May 11; Gaz. vol. 214; p. 377.
- Ryrie, Robert A., Camden, assignor of one-half to B. H. Johnson, Delanco, N. J. Well-strainer. No. 1,162,810; Dec. 7; Gaz. vol. 221; p. 28.
- Ryther, George D., assignor to Ryther & Pringle Co., Carthage, N. Y. Machine for shredding paper-stock. No. 1,156,373; Oct. 12; Gaz. vol. 219; p. 390.
- Ryther & Pringle Co. (See Ryther, George D., assignor.)
- S. Karpen & Bros. (See Andren, Fritz L., assignor.)
- S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.)
- S. E. T. Valve & Hydrant Company. (See Tyler, Clarence E., assignor.)
- S. F. Bowser & Co. (See Bechtold, Reuben E., assignor.)
- S. F. Bowser & Co. (See Bechtold and Wyckoff, assignors.)
- S. F. Bowser & Co. (See Caskey, Edgar M., assignor.)
- S. F. Bowser & Co. (See Morris, William L., assignor.)
- S. F. Bowser & Company. (See Bowser, Allen A., assignor.)
- S. F. Bowser & Company. (See Bowser, Sylvanus F., assignor.)
- S. F. Bowser & Company. (See Johnson and Wyckoff, assignors.)
- S. F. Bowser & Company. (See Mulligan, Thomas F., assignor.)
- S. F. Bowser & Company. (See Wyckoff, Andrew D., assignor.)
- S. H. Couch Co. (See Couch, Henry, and Stevens, assignors.)
- S. H. Couch Co. (See Henry, William W., assignor.)
- S. K. F. Ball-Bearing Co., The. (See Reynolds, William, assignor.)
- S. O. & C. Co. (See Kingston, William H., assignor.)
- S. R. Dresser Manufacturing Company. (See Clark, James, assignor.)
- S. R. Smythe Company, The. (See Smythe, Horace E., assignor.)
- S. & S. Automatic Tireaze Company, The. (See Shumway and Scholz, assignors.)
- S. S. Hepworth Company. (See Mackintosh, Edward D., assignor.)
- S. S. White Dental Manufacturing Company, The. (See Huff and Johnston, assignors.)
- S. S. White Dental Manufacturing Company, The. (See Savin, Ralph B., assignor.)
- S and S Window Corporation. (See Clermont, John B., assignor.)
- Saart, Herman, Attleboro, Mass., assignor to The W. H. Saart Company. Cigarette-supporter. No. 1,140,072; May 18; Gaz. vol. 214; p. 903.
- Saatman, Walter A. (See Reifsnnyder and Saatman.)
- Saatweber, Charles R., Paterson, N. J. Positive high-speed shuttle-motion. No. 1,142,059; June 8; Gaz. vol. 215; p. 379.
- Sabatier, Paul, and A. Mailhe, Toulouse, assignors to Société des Raffineries Catalytiques des Pétroles et Hydrocarbures, Paris, France. Manufacture of light hydrocarbons or the like. No. 1,124,333; Jan. 12; Gaz. vol. 210; p. 436.
- Sabatier, Paul, and A. Mailhe, Toulouse, assignors to Société des Raffineries Catalytiques des Pétroles et hydrocarbures, Paris, France. Converting petroleum and other heavy liquid hydrocarbons into volatile hydrocarbons distilling below 150° C. No. 1,152,765; Sept. 7; Gaz. vol. 218; p. 140.
- Sabbag, Littfallah G. (See Jones and Sabbag.)
- Sabelman, George, Proberta, Cal. Nailing-machine. No. 1,146,105; July 13; Gaz. vol. 216; p. 415.
- Sabin-Curtis Machine Co. (See Sabin, Tozer, and Curtis, assignors.)
- Sabin, Herbert B., A. B. Tozer, and A. R. Curtis, assignors to Sabin-Curtis Machine Co., Cleveland, Ohio. Glove-cleaning machine. No. 1,132,688; Mar. 23; Gaz. vol. 212; p. 1122.
- Sabine, Wallace C., Boston, assignor to The Carter's Ink Company, Cambridge, Mass. Pour-out for bottles. No. 1,132,620; Mar. 23; Gaz. vol. 212; p. 1097.
- Sable, Morris, Denver, Colo. Car-coupling. No. 1,138,321; May 4; Gaz. vol. 214; p. 211.
- Sabo, Daniel, assignor of one-half to M. Koccz, Bridgeport, Conn. Life-preserving suit. No. 1,146,350; July 13; Gaz. vol. 216; p. 500.
- Sabo, George, Philadelphia, Pa. Bench or hand plane. No. 1,146,525; July 13; Gaz. vol. 216; p. 565.
- Sabot, Frank, Philadelphia, Pa., assignor to Modern Die and Plate Press Manufacturing Company, Belleville, Ill. Adjustment for inking-rolls. No. 1,127,811; Feb. 9; Gaz. vol. 211; p. 444.
- Sabouret, Charles H. V., Paris, France. Continuous braking system applicable to long freight-trains with loose couplings. No. 1,158,300; Oct. 26; Gaz. vol. 219; p. 1158.
- Sabroe, Axel, Hadersleben, Germany. Milking device. No. 1,159,103; Nov. 2; Gaz. vol. 220; p. 240.
- Saccaggio, Pedro C., Talleres, Ferro Carril Sud, Argentina, assignor to J. Stone & Company Limited, Deptford, England. Car-door hinge and fastener. No. 1,154,061; Sept. 21; Gaz. vol. 218; p. 672.
- Saccaggio, Pedro C., and F. A. Lagrange, Buenos Aires, Argentina. Spark-arrester. No. 1,125,727; Jan. 19; Gaz. vol. 210; p. 972.
- Sacerdote, Secondo, Milan, Italy. Steam cooking apparatus. No. 1,144,002; June 22; Gaz. vol. 215; p. 1119.
- Sachar, John, Kato, Pa. Bullet-deflector for ordnance. No. 1,159,104; Nov. 2; Gaz. vol. 220; p. 240.
- Sachs, Carl R., Fremont, Ohio. Wagon-seat support. No. 1,140,769; May 25; Gaz. vol. 214; p. 1177.
- Sachs, Ernst. (See Mossig and Sachs.)
- Sachs, Ernst, Schweinfurt, Germany, assignor to The Bearings Company of America, Jersey City, N. J. Ball-bearing with ball-retaining device. No. 1,147,685; July 20; Gaz. vol. 216; p. 989.
- Sachs, Joseph, assignor, by mesne assignments, to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Alternating-current synchronous dynamo-electric machine. No. 1,125,728; Jan. 19; Gaz. vol. 210; p. 973.
- Sachs, Joseph, assignor, by mesne assignments, to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Plug and socket connector. No. 1,135,206; Apr. 13; Gaz. vol. 213; p. 443.
- Sachs, Joseph, assignor, by mesne assignments, to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Antitheft device for incandescent lamps. No. 1,148,538; Aug. 3; Gaz. vol. 217; p. 19.
- Sachs, Joseph, and C. A. Francis, assignors, by mesne assignments, to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Attachment for incandescent lamp sockets. No. 1,135,207; Apr. 13; Gaz. vol. 213; p. 443.
- Sachse, Paul A. H. (See Bierbrauer and Sachse.)
- Sachtleben, Friedrich. (See Berker and Sachtleben.)
- Sachtleben, Friedrich, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Demountable artillery-carriage. No. 1,164,402; Dec. 14; Gaz. vol. 221; p. 629.
- Sack, Herman R., assignor to R. B. Mills, Philadelphia, Pa. Mechanism for transferring hairs. No. 1,153,522; Sept. 14; Gaz. vol. 218; p. 449.
- Sackett, Franklin P., Washington, D. C. Headlight for vehicles. No. 1,140,189; May 18; Gaz. vol. 214; p. 943.
- Sackett, Harrie A., Philadelphia, Pa., assignor to The Reynolds Corporation, Bristol, Tenn. Display-stand. No. 1,124,175; Jan. 5; Gaz. vol. 210; p. 332.
- Sackett, Harrie A., West Philadelphia, Pa., assignor to N. W. Ayer & Son, Philadelphia, Pa. Box-support. No. 1,159,277; Nov. 2; Gaz. vol. 220; p. 301.
- Sackett, Harrie A., Philadelphia, Pa., assignor to Smith Brothers, Poughkeepsie, N. Y. Display-tray. No. 1,166,263; Dec. 28; Gaz. vol. 221; p. 1363.
- Sackett, Joseph S., Williamsburg, Ohio. Device for clamping patches on tires. No. 1,131,162; Mar. 9; Gaz. vol. 212; p. 491.

Alphabetical list of patentees—Continued.

- Saco-Lowell Shops. (See Goldsmith, William H., Jr., assignor.)
- Saco-Lowell Shops. (See Rogers, Henry J., assignor.)
- Sacromone, Rocco, Brooklyn, N. Y. Neckband-shaper. No. 1,144,729; June 29; Gaz. vol. 215; p. 1400.
- Sadler, Emery F., Pontiac, Mich. Ladder-foot. No. 1,127,287; Feb. 2; Gaz. vol. 211; p. 219.
- Sadler, Luther, and R. C. Geckler, Oakland, Cal. Railway-crossing. No. 1,153,342; Sept. 14; Gaz. vol. 218; p. 383.
- Sadlik, Alois. (See Ptak and Sadlik.)
- Saecker, Frank E., assignor to Appleton Machine Company, Appleton, Wis. Shaft-coupling. No. 1,137,290; Apr. 27; Gaz. vol. 213; p. 1260.
- Saefke, William M., assignor of one-half to H. Saefke, Milwaukee, Wis. Valve. No. 1,153,343; Sept. 14; Gaz. vol. 218; p. 384.
- Saeger, Charles M., Allentown, Pa. Electric signal. No. 1,142,912; June 15; Gaz. vol. 215; p. 715.
- Saegmuller, George N., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Binocular periscope. No. 1,153,259; Sept. 14; Gaz. vol. 218; p. 354.
- Sælid, Oskar, and K. Pettersen, Sarpsborg, Norway. Electrically-heated kitchen-range. No. 1,154,270; Sept. 21; Gaz. vol. 218; p. 743.
- Saevke, Henry. (See Saefke, William M., assignor.)
- Safe Deposit and Trust Company of Pittsburgh, executor. (See Patterson, Peter.)
- Safe-T-Lite Co. (See Morrison, John E., assignor.)
- Safeguard Tag Company. (See Stevens, Arthur L., assignor.) (Reissue.)
- Safety Armarmor Conduit Company. (See Buch, Newton W., assignor.)
- Safety Auto Signal Company. (See Switzer, Charles A., assignor.)
- Safety Car Heating and Lighting Co., The. (See Bijur, Joseph, assignor.)
- Safety Car Heating & Lighting Company. (See Allbee, Elmer E., assignor.)
- Safety Car Heating & Lighting Company, The. (See Armstrong, Ralph W., assignor.)
- Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)
- Safety Car Heating & Lighting Company. (See Dixon, Robert M., assignor.)
- Safety Car Heating & Lighting Company, The. (See Evans, William S., assignor.)
- Safety Car Heating & Lighting Company. (See Grob, Hugo, assignor.)
- Safety Car Heating & Lighting Company, The. (See Hallock, George W., assignor.)
- Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
- Safety Car Heating and Lighting Company. (See Shaal, Robert C., assignor.)
- Safety Car Heating & Lighting Company. (See Shaw, John A., assignor.)
- Safety Car Heating & Lighting Company. (See Thomson, William I., assignor.)
- Safety Elevator Lock and Signal Company. (See Humphrey, Henry A., assignor.)
- Safety Engineering Company. (See Greer, Samuel C., assignor.)
- Safety First Air Brake Company. (See Comerford, Patrick, assignor.)
- Safety Folding Ladder Company. (See Pyle, William T., assignor.)
- Safety Specialty Company. (See Curwen, Henry R., assignor.)
- Safety Window Company. (See Cooney, John J., assignor.)
- Saffold, James W., Cleveland, Ohio. Spring-supported system for vehicles. No. 1,123,808; Jan. 5; Gaz. vol. 210; p. 208.
- Saffold, Ray P., San Francisco, Cal. Subcaliber attachment for guns. No. 1,126,294; Jan. 26; Gaz. vol. 210; p. 1207.
- Saffold, Ray P., San Francisco, Cal. Cover or case for take-down guns. No. 1,149,690; Aug. 10; Gaz. vol. 217; p. 534.
- Safford, Clarence E., Detroit, Mich. Reel for wire-fabric machines. No. 1,139,077; May 11; Gaz. vol. 214; p. 516.
- Safford, William H., Jr. (See Wood and Safford.)
- Sage, Ernest L., Newton Center, Mass., assignor, by mesne assignments, of three-fifths to Eastern Fountain Company. Fluid-pressure or flow regulator or controller. No. 1,136,619; Apr. 20; Gaz. vol. 213; p. 981.
- Sage, Henry M. (See Winne, William P., assignor.)
- Sage, Ralph V., Columbus, Ohio. Car-underframe. No. 1,128,054; Feb. 9; Gaz. vol. 211; p. 528.
- Sage, Ralph V., Westmont borough, Pa. Dump-car construction. No. 1,158,006; Oct. 26; Gaz. vol. 219; p. 1054.
- Sage, Ralph V., Columbus, Ohio, and J. J. Tatum, Baltimore, Md.; said Sage assignor to The Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 1,155,759; Oct. 5; Gaz. vol. 219; p. 150.
- Sage, Rollie C., Arrowrock, Idaho. Electric water-heater. No. 1,150,390; Aug. 17; Gaz. vol. 217; p. 844.
- Sagebrecht, Charles J., Brooklyn, assignor to Interstate Electric Novelty Co., New York, N. Y. Portable electric flash-light. No. 1,155,100; Sept. 28; Gaz. vol. 218; p. 1057.
- Sagemiller, Conrad. (See Hunt and Sagemiller.)
- Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Spring mechanism for vehicles. No. 1,136,721; Apr. 20; Gaz. vol. 213; p. 1018.
- Sági, Béla and E. Budapest, Austria-Hungary. Method of and apparatus for testing liquids and other materials. No. 1,163,693; Dec. 14; Gaz. vol. 221; p. 381.
- Sági, Eugen. (See Sági, Béla and E.)
- Sagle, Roy E., Roseville, Ohio. Electrical regulating device. No. 1,152,913; Sept. 7; Gaz. vol. 218; p. 196.
- Sahlender, Anna. (See Sahlender, Christian, assignor.)
- Sahlender, Christian, Brooklyn, N. Y., assignor of one-half to A. Sahlender. Beer-drawing apparatus. No. 1,137,718; Apr. 27; Gaz. vol. 213; p. 1405.
- Sahlén, Henning G., assignor to G. W. Turney, Rome, N. Y. Machine for winding edgewise and spacing metal strips. No. 1,151,721; Aug. 31; Gaz. vol. 217; p. 1403.
- Sailer, John H., Geneva, Iowa. Wire reeling and unreeling device. No. 1,126,090; Jan. 26; Gaz. vol. 210; p. 1135.
- Salliot, Alfred L. E. (See Chapsal and Salliot.)
- Sailors, Ovid B. (See Williams, George H., assignor.)
- Saino, Felix L., Memphis, Tenn. Fusible fastening. No. 1,151,289; Aug. 24; Gaz. vol. 217; p. 1211.
- Saino, Felix L., assignor to Saino Fire Door & Shutter Co., Memphis, Tenn. Fire door or shutter. No. 1,146,960; July 20; Gaz. vol. 216; p. 735.
- Saino Fire Door & Shutter Co. (See Saino, Felix L., assignor.)
- Saint, Lee G., assignor of one-fifth to A. S. Thomas, one-fifth to W. Jones, one-fifth to C. H. Clark, and one-fifth to Z. D. Fisher, Mount Sterling, Ohio. Railway-switch. No. 1,156,183; Oct. 12; Gaz. vol. 219; p. 323.
- Saint-Romain, Alexis F. de, St.-Etienne, Loire, France. Advertising apparatus. No. 1,165,397; Dec. 28; Gaz. vol. 221; p. 1055.
- Sajda, Justin, and M. Skapick, Lansford, Pa. Dirigible automatic headlight. No. 1,163,266; Dec. 7; Gaz. vol. 221; p. 186.
- Sakal, Yasuhiro, East Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor electric apparatus. No. 1,148,628; Aug. 3; Gaz. vol. 217; p. 52.
- Sakal, Yasuhiro, East Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Armature-winding. No. 1,156,711; Oct. 12; Gaz. vol. 219; p. 508.
- Sakal, Yasuhiro, East Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor electric device. No. 1,159,869; Nov. 9; Gaz. vol. 220; p. 546.
- Sakata, Teruo, Los Angeles, Cal. Polishing outfit. No. 1,135,326; Apr. 13; Gaz. vol. 213; p. 484.
- Sakurai, Tetsuhiro. (See Kojima, Masayoshi, assignor.)
- Sala, Francisco, Caibarien, and J. Vazquez, Yaguajay, Cuba. Mechanical system for elevating liquids. No. 1,154,938; Sept. 28; Gaz. vol. 218; p. 1000.
- Salaberry, Georges E. M. G. B. de, Fossé, France. Threshing-machine. No. 1,163,513; Dec. 7; Gaz. vol. 221; p. 272.
- Salaberry, Georges E. M. G. B. de, Fossé, France. Threshing-machine. No. 1,164,269; Dec. 14; Gaz. vol. 221; p. 580.
- Saladin, Joseph M., Bryan, Tex. Aerial torpedo. No. 1,152,226; Aug. 31; Gaz. vol. 217; p. 1579.
- Saladino, Luigi, Brooklyn, N. Y. Safety device for windows. No. 1,162,517; Nov. 30; Gaz. vol. 220; p. 1621.
- Salamon, Alfred G. (See Hood and Salamon.)
- Salamon, Jacob. (See Sillo, Daniel, assignor.)
- Salari, Antonio, assignor of one-half to W. Ledgerwood, Bisbee, Ariz. Flower-holder. No. 1,135,401; Apr. 13; Gaz. vol. 213; p. 509.
- Sale, Robert A., High Point, N. C., assignor of one-half to J. S. Epes and one-half to E. C. Palmer, Emporia, Va. Taboret. No. 1,124,662; Jan. 12; Gaz. vol. 210; p. 558.
- Salem Foundry and Machine Works. (See Shank, John E., assignor.)
- Sales, John, Ignacio, Colo. Hay lifting and carrying device. No. 1,151,052; Aug. 24; Gaz. vol. 217; p. 1130.
- Salas, Philip, Whitestone, N. Y. Eyeglasses. No. 1,144,068; June 22; Gaz. vol. 215; p. 1143.
- Salisbury, Charles K., assignor to Standard Separator Company, Milwaukee, Wis. Gas-engine. No. 1,129,426; Feb. 23; Gaz. vol. 211; p. 1692.
- Salisbury, Charles K., assignor to Standard Separator Company, Milwaukee, Wis. Gas-engine starter. No. 1,129,427; Feb. 23; Gaz. vol. 211; p. 1092.
- Salisbury, Charles K., assignor to Standard Separator Company, Milwaukee, Wis. Carbureter. No. 1,129,428; Feb. 23; Gaz. vol. 211; p. 1093.
- Salisbury, Charles K., assignor to Standard Separator Company, Milwaukee, Wis. Spring for centrifugal-separator bearings. No. 1,158,726; Nov. 2; Gaz. vol. 220; p. 110.
- Salisbury, Leonard N., Fairmont, W. Va. Garment-stretcher. No. 1,137,426; Apr. 27; Gaz. vol. 213; p. 1310.

Alphabetical list of patentees—Continued.

- Salisbury, Levi E., Providence, R. I. Automatic multiple-shuttle textile-loom. No. 1,161,979; Nov. 30; Gaz. vol. 220; p. 1434.
- Salka, Samuel G., Chicago, Ill. Muffler. No. 1,153,260; Sept. 14; Gaz. vol. 218; p. 354.
- Salkeld, Eugene W., Washington, D. C. Hand-washer. No. 1,135,402; Apr. 13; Gaz. vol. 213; p. 510.
- Salkeld, Eugene W., assignor of one-third to A. E. Chaffee and one-third to E. W. Bradford, Washington, D. C. Clothes-line clip. No. 1,139,908; May 18; Gaz. vol. 214; p. 843.
- Sally, Frank, Mount Vernon, N. Y. Mechanism for removing ribs from the die-cylinders of record-strip composing-machines. No. 1,140,854; May 25; Gaz. vol. 214; p. 1209.
- Salmon, Edward W., Jr., Baltimore, Md. Motion-picture apparatus. No. 1,125,729; Jan. 19; Gaz. vol. 210; p. 973.
- Salmon, John B., and E. W. Roy, Dunedin, New Zealand. Manufacture of leather covers for pneumatic tires. No. 1,145,616; July 6; Gaz. vol. 216; p. 223.
- Salmon, Leon. (See Riviere, Fernand E., assignor.)
- Salmon, Wilmer W., and F. L. Dodgson, Rochester, assignors to General Railway Signal Company. Gates, N. Y. Recording device. No. 1,162,656; Nov. 30; Gaz. vol. 220; p. 1663.
- Salmonson, Emile J. J. (See Canton, Unné, and Salmonson.)
- Salof, Alexander, Oakland, Cal. Animal-trap. No. 1,165,289; Dec. 21; Gaz. vol. 221; p. 978.
- Salomonsky, Nathan. (See Hilliker and Salomonsky.)
- Salony, Michael. (See Andrejcek and Salony.)
- Salsbury, Henry, London, England. Recreation device. No. 1,127,094; Feb. 2; Gaz. vol. 211; p. 152.
- Salt's Textile Manufacturing Company, The. (See Cutting, Samuel B., assignor.)
- Salt's Textile Manufacturing Company, The. (See Krehbiel, John, assignor.)
- Salter, William A., Kansas City, Mo., assignor, by mesne assignments, to E. H. Purdy, Clay Center, Kans. Gearing. No. 1,137,026; Apr. 27; Gaz. vol. 213; p. 1163.
- Saltzilver, George H., and J. H. Burke, Sioux, Nebr. Grain-door for freight-cars. No. 1,123,387; Jan. 5; Gaz. vol. 210; p. 65.
- Saltzman, Auguste L., East Orange, N. J., assignor, by mesne assignments, to J. G. Coffin, trustee. Registering letterpress matter and making printing-plates therefrom. No. 1,124,531; Jan. 12; Gaz. vol. 210; p. 508.
- Saltzman, Auguste L., East Orange, assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Primary battery. No. 1,126,295; Jan. 26; Gaz. vol. 210; p. 1208.
- Saltzman, Auguste L., East Orange, assignor, by mesne assignments, to New Jersey Patent Company, West Orange, N. J. Primary battery. No. 1,155,512; Oct. 5; Gaz. vol. 219; p. 66.
- Saltzman, Auguste L., New York, N. Y., assignor, by mesne assignments, to J. G. Coffin, trustee. Machine for making composing-strips for automatic typographic apparatus. No. 1,136,083; Apr. 20; Gaz. vol. 213; p. 790.
- Salvage, Bert. (See Skibbe and Salvage.)
- Salvail, N. P., et al. (See Pronovost, Joseph, assignor.)
- Salvation Match Company. (See Koert, Martin, assignor.)
- Salvitti, Joseph. (See Morgan and Salvitti.)
- Salwén, Sven R., Grangesberg, Sweden, assignor to American Grondal Company, New York, N. Y. Magnetic ore-separator. No. 1,141,833; June 1; Gaz. vol. 215; p. 260.
- Salzenstein, Solomon C., assignor to Chic. Mfg. Co., Peoria, Ill. Garment. No. 1,153,523; Sept. 14; Gaz. vol. 218; p. 450.
- Salzer, Arthur, New York, N. Y. Lighting device. No. 1,124,334; Jan. 12; Gaz. vol. 210; p. 437.
- Salzinger, Louis. (See Lewis and Salzinger.)
- Salzman, Joseph A., Toledo, Iowa. Seat-controlled closet. No. 1,145,216; July 6; Gaz. vol. 216; p. 83.
- Samaia, Dino, Milan, Italy. Apparatus for actuating conduit-covers and collector-plows for electric railways. No. 1,152,914; Sept. 7; Gaz. vol. 218; p. 196.
- Sambar, Sam. (See Dwofsky and Sambar.)
- Samel, Michael, Lorain, Ohio. Agricultural machine. No. 1,154,888; Sept. 28; Gaz. vol. 218; p. 982.
- Samel, Michael, Cherry Valley, Pa. Motor-plow. No. 1,154,889; Sept. 28; Gaz. vol. 218; p. 982.
- Sammet, Carl F., assignor to E. Sammet, Annandale, N. J. Music-leaf turner. No. 1,154,342; Sept. 21; Gaz. vol. 218; p. 768.
- Sammet, Emil. (See Sammet, Carl F., assignor.)
- Sammons, Thomas A., Dayton, Ohio. Permutation-lock. No. 1,158,860; Nov. 2; Gaz. vol. 220; p. 159.
- Sampey, Alfred, Springfield, Mo. Artificial electric minnow. No. 1,159,278; Nov. 2; Gaz. vol. 220; p. 301.
- Samphere, Orin C., Milwaukee, Wis. Connecting-bracket for dental handpieces. No. 1,152,122; Aug. 31; Gaz. vol. 217; p. 1544.
- Sample, Henry C., assignor of one-half to V. G. Gurinian, Chicago, Ill. Candy-pulling machine. No. 1,162,711; Nov. 30; Gaz. vol. 220; p. 1683.
- Sample, John G. (See Graham, Gore, and Sample.)
- Sample, John H., and E. D. Fout, Toledo, Ohio. Furnace. No. 1,126,873; Feb. 2; Gaz. vol. 211; p. 74.
- Sample, Pinkney L., Mobile, Ala. Piston. No. 1,134,911; Apr. 6; Gaz. vol. 213; p. 295.
- Sampson, Carlos E., and W. Woods, Shale, Cal. Crude-oil-separator column. No. 1,151,290; Aug. 24; Gaz. vol. 217; p. 1211.
- Sampson, Charles C. (See O'Reilly and Sampson.)
- Sampson, Charles H., assignor to Peerless Check Protecting Company, Rochester, N. Y. Printing-die. No. 1,135,053; Apr. 13; Gaz. vol. 213; p. 392.
- Sampson, Charles H., assignor to Peerless Check Protecting Company, Rochester, N. Y. Printing-machine. No. 1,141,270; June 1; Gaz. vol. 215; p. 64.
- Sampson, Edward J., Somerville, Mass. Furnace. No. 1,135,723; Apr. 13; Gaz. vol. 213; p. 625.
- Sampson, Harry. (See Wolfer and Sampson.)
- Sampson, James J., assignor of one-half to J. Leonard, Waterloo, Iowa. Rake-sweep. No. 1,147,894; July 27; Gaz. vol. 216; p. 1088.
- Sampson, Robert W., Westmount, Quebec, Canada. Tire-tool. No. 1,136,977; Apr. 27; Gaz. vol. 213; p. 1144.
- Sampson, Robert W., Westmount, Quebec, Canada. Puncture-closer for pneumatic tires. No. 1,140,718; May 25; Gaz. vol. 214; p. 1160.
- Sampson, Thomas H., New Orleans, La. Apparatus for the treatment of red gum and other like woods. No. 1,131,427; Mar. 9; Gaz. vol. 212; p. 584.
- Sampson, William R., San Francisco, Cal. Table-rack. No. 1,151,291; Aug. 24; Gaz. vol. 217; p. 1211.
- Sams, Albert J., Fort Scott, assignor to Smith Locomotive Adjustable Hub Plate Company, Pittsburg, Kans. Packing device for hub-plates. No. 1,143,142; June 15; Gaz. vol. 215; p. 796.
- Sams, Ben T., and W. H. Hout, Warrensburg, Mo. Current-motor. No. 1,164,403; Dec. 14; Gaz. vol. 221; p. 629.
- Samson, Allan C., and R. J. Prendergast, Winnipeg, Manitoba, Canada. Cutting-block for printing-machines. No. 1,147,817; July 27; Gaz. vol. 216; p. 1060.
- Samson Car Coupler Company. (See Doerr, Harry E., assignor.)
- Samson Cordage Works. (See Tolman, James P., assignor.)
- Samstag, Louis A., New York, N. Y. Hand-bag, &c., and framing the same. No. 1,153,958; Sept. 21; Gaz. vol. 218; p. 636.
- Samuel C. Tatum Company, The. (See Dom, Alexander, assignor.)
- Samuel C. Tatum Company, The. (See Dom, Chesley, assignor.)
- Samuel C. Tatum Company, The. (See Hilles, Samuel E., assignor.)
- Samuel Cabot, Inc. (See Abbott, Charles M., assignor.)
- Samuel, Clarence L., Pryor, Okla. Ax-display stand. No. 1,132,392; Mar. 16; Gaz. vol. 212; p. 965.
- Samuel J. Shimer & Sons. (See Shimer, Elmer S., assignor.)
- Samuel, Jakob, Bonn, Germany. Preparing artificial sausage-skins. No. 1,124,064; Jan. 5; Gaz. vol. 210; p. 294.
- Samuel, Leopold S., Newark, N. J. Toupee. No. 1,148,539; Aug. 3; Gaz. vol. 217; p. 20.
- Samuel M. Langston Company. (See Beadle, Warren E., assignor.)
- Samuel M. Langston Company. (See Langston, Samuel M., assignor.)
- Samuel, Thoms F., and J. H. Wolcott, Boston, Ga. Combined tobacco and match box. No. 1,138,980; May 11; Gaz. vol. 214; p. 480.
- Samuels, William P. (See Danforth, Samuels, and Martersteck.)
- Samuelson, Emil, McKenzie, N. D. Railway-tie. No. 1,126,573; Jan. 26; Gaz. vol. 210; p. 1310.
- Samuelson, Emil, McKenzie, N. D. Truss-hook. No. 1,127,288; Feb. 2; Gaz. vol. 211; p. 219.
- Samuelson, Emil, McKenzie, N. D. Self-dumping attachment for scrapers. No. 1,128,191; Feb. 9; Gaz. vol. 211; p. 576.
- Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Variable volumetric accumulator. No. 1,129,734; Feb. 23; Gaz. vol. 211; p. 1195.
- Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Accumulator power system. No. 1,129,735; Feb. 23; Gaz. vol. 211; p. 1196.
- Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Speed-governing mechanism. No. 1,154,062; Sept. 21; Gaz. vol. 218; p. 672.
- San Antonio Machine & Supply Co. (See Winterborne, William H., assignor.)
- Sanborn Evaporator Company. (See Sanborn, Thornton F., assignor.)
- Sanborn, James W., Hampstead, N. H. Automobile steering-gear. No. 1,152,227; Aug. 31; Gaz. vol. 217; p. 1580.
- Sanborn, John R., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Producing mica insulation. No. 1,138,691; May 11; Gaz. vol. 214; p. 377.
- Sanborn, Thornton F., assignor to Sanborn Evaporator Company, New York, N. Y. Evaporating. No. 1,143,074; June 15; Gaz. vol. 215; p. 774.
- Sanborn, Thornton F., assignor to Sanborn Evaporator Company, New York, N. Y. Tube combined with heating, cooling, and evaporating apparatus or receptacles. No. 1,151,292; Aug. 24; Gaz. vol. 217; p. 1212.

- Sancier, Helen A., Edgewater, N. J. Doll. No. 1,148,540; Aug. 3; Gaz. vol. 217; p. 20.
- Sand Mixing Machine Company. (See Lorimer, George W., assignor.)
- Sand Mixing Machine Company. (See Minich, Verne E., assignor.)
- Sandage, Oliver G., New York, N. Y., assignor of two-thirds to Doehler Die Casting Company. Art or method of and apparatus for casting fluid metals. No. 1,156,557; Oct. 12; Gaz. vol. 219; p. 454.
- Sandbo, Anton I., Lansford, N. D. Engine-cylinder. No. 1,142,631; June 8; Gaz. vol. 215; p. 579.
- Sandbo, Anton I., Lansford, N. D., assignor, by mesne assignments, to The Sandbo Starter Company, Rockford, Ill. Engine-starter. No. 1,128,055; Feb. 9; Gaz. vol. 211; p. 528.
- Sandbo, Anton I., assignor to The Sandbo Starter Company, Rock Island, Ill. Engine-starter. No. 1,136,722; Apr. 20; Gaz. vol. 213; p. 1018.
- Sandbo, Anton I., Rock Island, Ill., assignor to The North Dakota Gas Engine Manufacturing Company, Langsford, N. D. Internal-combustion engine. No. 1,143,649; June 22; Gaz. vol. 215; p. 998.
- Sandbo Starter Company, The. (See Sandbo, Anton I., assignor.)
- Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Electric piano. No. 1,148,719; Aug. 3; Gaz. vol. 217; p. 85.
- Sandell, John P., Chicago, Ill. Internal-combustion engine. No. 1,130,934; Mar. 9; Gaz. vol. 212; p. 415.
- Sander, Joseph P., assignor to Spokane Mail Equipment Company, Spokane, Wash. Mail-container. No. 1,151,827; Aug. 31; Gaz. vol. 217; p. 1442.
- Sanders, Albert H., and O. Hood, Glendora, Cal. Concrete-pipe machine. No. 1,158,301; Oct. 26; Gaz. vol. 219; p. 1159.
- Sanders, Alexander, assignor of one-half to S. H. Crowe, Poplar Bluff, Mo. Pencil-holder. No. 1,162,948; Dec. 7; Gaz. vol. 221; p. 74.
- Sanders, Earl V., Pawnee, Ill. Pneumatic cushioning device for vehicles. No. 1,140,002; May 18; Gaz. vol. 214; p. 877.
- Sanders, Frank T., assignor of one-half to O. Dodge, Colorado Springs, Colo. Air and water blowpipe for rock-drilling. No. 1,146,284; July 13; Gaz. vol. 216; p. 478.
- Sanders, James M., St. Louis, Mo. Batter-dropper. No. 1,144,918; June 29; Gaz. vol. 215; p. 1464.
- Sanders, John G., Monroe, La. Gravity automatic boiler feed apparatus. No. 1,129,235; Feb. 23; Gaz. vol. 211; p. 1024.
- Sanders, Joseph, Washington, D. C. Spring-wheel. No. 1,155,444; Oct. 5; Gaz. vol. 219; p. 41.
- Sanders, Joseph, Washington, D. C., assignor to Victor Talking Machine Company. Gramophone. No. 1,152,343; Aug. 31; Gaz. vol. 217; p. 1620.
- Sanders, Louis, New York, N. Y. Initial-buckle. No. 1,134,016; Mar. 30; Gaz. vol. 212; p. 1629.
- Sanders, Mastin E., Rosenberg, Tex. Dental bite-tray. No. 1,134,017; Mar. 30; Gaz. vol. 212; p. 1630.
- Sanders, Miles A., Iuka, Ill. Package-tie. No. 1,155,961; Oct. 5; Gaz. vol. 219; p. 221.
- Sanders, Milton S., Traverse City, Mich. Plaster fabric. No. 1,158,861; Nov. 2; Gaz. vol. 220; p. 159.
- Sanders, Stephen P., Cupertino, Cal. Carbureter. No. 1,152,915; Sept. 7; Gaz. vol. 218; p. 197.
- Sanders, Thomas, Kingman, Ind. Trolley-wheel mount. No. 1,142,846; June 15; Gaz. vol. 215; p. 691.
- Sanders, Werden A., Portland, Oreg. Window-screen. No. 1,127,289; Feb. 2; Gaz. vol. 211; p. 220.
- Sanders, William, Angola, Ind. Anchor-block for row-boats. No. 1,161,980; Nov. 30; Gaz. vol. 220; p. 1434.
- Sanderson, Jane, assignor, by mesne assignments, to Fibro Dress Form Company, Chicago, Ill. Plastic composition for dress-form-molding purposes. No. 1,123,600; Jan. 5; Gaz. vol. 210; p. 138.
- Sanderson, Marvin C., Hackleburg, Ala. Single-trigger mechanism for double-barrel guns. No. 1,140,003; May 18; Gaz. vol. 214; p. 877.
- Sandford, Robert W., assignor of one-third to D. Revels, Arifator, Miss. Saw-handle. No. 1,163,860; Dec. 14; Gaz. vol. 221; p. 440.
- Sandford, Wallace G., assignor to Positive Tire Vulcanizer Company, Davenport, Iowa. Portable vulcanizer. No. 1,161,414; Dec. 23; Gaz. vol. 220; p. 1193.
- Sandham, David J., New York, N. Y. Steering device for motor-vehicles. No. 1,166,389; Dec. 28; Gaz. vol. 221; p. 1408.
- Sandham, John. (See Sandham, Ralph R., assignor.)
- Sandham, Ralph R., assignor of one-half to J. Sandham, Harlan, Iowa. Hand-stamp. No. 1,148,463; July 27; Gaz. vol. 216; p. 1289.
- Sandfield, Michael, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coll-forming apparatus. No. 1,153,344; Sept. 14; Gaz. vol. 218; p. 384.
- Sandifer, George, Moberly, Mo. Brake-ratchet. No. 1,145,217; July 6; Gaz. vol. 216; p. 83.
- Sandkuhl, Edmund, New York, N. Y. Animal-trap. No. 1,124,532; Jan. 12; Gaz. vol. 210; p. 509.
- Sandow, Eugen, London, England. Combined toy and physical-culture apparatus. No. 1,123,570; Jan. 5; Gaz. vol. 210; p. 127.
- Sands, Frederick G., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Molding-machine. No. 1,127,095; Feb. 2; Gaz. vol. 211; p. 152.
- Sands, George H., Electra, Tex. Internal-combustion steam-generator. No. 1,154,131; Sept. 21; Gaz. vol. 218; p. 695.
- Sands, John J., Stanley, New Brunswick, Canada. Wrench. No. 1,135,929; Apr. 13; Gaz. vol. 213; p. 694.
- Sands, Guy G., East Greenville, Pa. Shuttle-operating mechanism. No. 1,138,418; May 4; Gaz. vol. 214; p. 246.
- Sands, Thomas E. (See Moynihan, Jeremiah A., assignor.)
- Sandstrom, Carl A., Williston, N. D. Automobile transmission-gearing. No. 1,124,533; Jan. 12; Gaz. vol. 210; p. 509.
- Sandt, Frank, Kenosha, Wis. Reversible bed-rail fastening. No. 1,152,123; Aug. 31; Gaz. vol. 217; p. 1544.
- Sandum, K. O., et al. (See Engle, William G., assignor.)
- Sandusky Portland Cement Company. (See Newberry, Spencer B., assignor.)
- Sandwich Manufacturing Co. (See Graves, Clark, assignor.)
- Sandy, Sam S., Bowie, Tex. Feeding device for hay-presses. No. 1,164,404; Dec. 14; Gaz. vol. 221; p. 630.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Swivel-joint. No. 1,147,553; July 20; Gaz. vol. 216; p. 942.
- Sanford, Andrew J., assignor to A. H. Heisey & Company, Newark, Ohio. Lamp. No. 1,150,391; Aug. 17; Gaz. vol. 217; p. 845.
- Sanford, Charles, Sr., Madoc, Ontario, Canada. Roller-lock. No. 1,159,421; Nov. 9; Gaz. vol. 220; p. 384.
- Sanford, Charles H., New York, N. Y. Combined fracture and orthopedic operating-table. No. 1,160,451; Nov. 16; Gaz. vol. 220; p. 601.
- Sanford Clarifying and Separating Company. (See Sanford, George E., assignor.)
- Sanford, David C., Bridgeport, Conn. Making journal-bearings. No. 1,158,862; Nov. 2; Gaz. vol. 220; p. 160.
- Sanford, George A., Tipton county, Tenn. Plow-drag. No. 1,131,010; Mar. 9; Gaz. vol. 212; p. 440.
- Sanford, George E., Oak Park, Ill., assignor, by mesne assignments, to Sanford Clarifying and Separating Company. Centrifugal separator. No. 1,161,981; Nov. 30; Gaz. vol. 220; p. 1434.
- Sanford, Hugh W., Knoxville, Tenn. Wheel construction. (Reissue.) No. 13,872; Jan. 26; Gaz. vol. 210; p. 1346.
- Sanford Riley Stoker Co. (See Riley, Robert S., assignor.)
- Sanford, William C., Golconda, Ariz. Playing-card game. No. 1,159,105; Nov. 2; Gaz. vol. 220; p. 240.
- Sangamo Electric Company. (See Bard, Jacob W., assignor.)
- Sangamo Electric Company. (See Noble, Warren, assignor.)
- Sanitary Bottle Washing Company. (See Poggensee, Edward B., assignor.)
- Sanitary Can Company. (See Augensen, August M., assignor.)
- Sanitary Can Company. (See Butler, William F., assignor.)
- Sanitary Method Co. (See Brown, Abraham A., assignor.)
- Sanitary Pulp Products Company. (See Ayerst, Harry C., assignor.)
- Sanitary Seat Cover Apparatus Company. (See Jiranek, Louis A., assignor.)
- Sanitary Stove Top Company. (See Smith, William W., assignor.)
- Sanitary Utilities Company. (See McKenney, Swan, and Peacock, assignors.)
- Sanitary Vacuum Street Cleaner Company of America. (See Bayless, Patrick A., assignor.)
- Sanks, Frank. (See Booth and Sanks.)
- Sano Manufacturing Co. (See Schmedtje, Adolph H., assignor.)
- Santarsiero, Antonio V., assignor to A. Buccl, Port Chester, N. Y. Ammunition-hoist. No. 1,157,048; Oct. 19; Gaz. vol. 219; p. 657.
- Santicola, Quintino, New York, N. Y. Salad-dressing container. No. 1,147,554; July 20; Gaz. vol. 216; p. 942.
- Santo Manufacturing Company. (See Keller, William H., assignor.)
- Santo Manufacturing Company. (See Keller and Templin, assignors.)
- Santo Manufacturing Company. (See Small, Howard, assignor.)
- Santo Manufacturing Company. (See Smith, John W., assignor.)
- Santo Manufacturing Company. (See Templin, Joseph H., assignor.)
- Santo Manufacturing Company. (See Wiedemann and Templin, assignors.)
- Santos, Carlos, Lissabon, Portugal, and R. Boerner, Berlin, assignors to Siemens & Halske A. G., Siemensstadt, near Berlin, Germany. Electromedical apparatus. No. 1,156,317; Oct. 12; Gaz. vol. 219; p. 367.
- Santrock, Henry, Kensington, Kans. Hoisting apparatus for silos. No. 1,138,322; May 4; Gaz. vol. 214; p. 212.
- Santrock, Henry, Kensington, Kans. Hoisting apparatus for silos, &c. No. 1,152,053; Aug. 31; Gaz. vol. 217; p. 1520.

Alphabetical list of patentees—Continued.

- Santry, Joseph V., Boston, assignor to C. W. E. Clarke, Brookline, Mass. Heating and power-producing system. No. 1,154,210; Sept. 21; Gaz. vol. 218; p. 721.
- Santus, Frank, Flushing, Ohio. Propelling mechanism for grindstones. No. 1,152,228; Aug. 31; Gaz. vol. 217; p. 1580.
- Sanxay, Edmund D., Yerkes, Pa. Envelop. No. 1,131,276; Mar. 9; Gaz. vol. 212; p. 532.
- Sapal Société Anonyme Des Plieuses Automatiques. (See Berger, Richard A., assignor.)
- Sapal Société Anonyme Des Plieuses Automatiques. (See Blonay, Jean de, assignor.)
- Sapegno, Giovanni, Genoa, Italy. Railway-tie. No. 1,143,442; June 15; Gaz. vol. 215; p. 904.
- Saracco, Pietro, Turin, Italy. Spinning and twisting machine. No. 1,138,981; May 11; Gaz. vol. 214; p. 481.
- Saracco, Pietro, Turin, Italy. Winding-machine. No. 1,147,752; July 27; Gaz. vol. 216; p. 1038.
- Saranac Machine Co. (See Craig, Edward, assignor.)
- Saranac Machine Co. (See Ray, William H., assignor.)
- Saranac Machine Company. (See Crebbin, Bert, assignor.)
- Sardynski, Frank, and J. Tysko, Amsterdam, N. Y. Life-boat. No. 1,133,063; Mar. 23; Gaz. vol. 212; p. 1261.
- Sare, Ira H., Sentinel, Okla. Spark-plug. No. 1,150,392; Aug. 17; Gaz. vol. 217; p. 845.
- Sare, Ira H., Sentinel, Okla. Wiring mechanism for automobile-engines. No. 1,162,106; Nov. 30; Gaz. vol. 220; p. 1479.
- Sargeant, Jeremiah, Newark Valley, N. Y. Bottle-remover for bottle-washing machines. No. 1,133,321; Mar. 30; Gaz. vol. 212; p. 1386.
- Sargeant, Walter C., et al. (See Miller, John, Sr., assignor.)
- Sargent, Allan C., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Bagging-machine. No. 1,140,484; May 25; Gaz. vol. 214; p. 1082.
- Sargent, Allan C., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Computing device. No. 1,150,228; Aug. 17; Gaz. vol. 217; p. 788.
- Sargent, Allston, New York, N. Y. Apparatus for dividing and surfacing stone. No. 1,160,452; Nov. 16; Gaz. vol. 220; p. 802.
- Sargent, Alonzo J., Jackson, Mich. Spraying attachment for hose-nozzles. No. 1,158,302; Oct. 26; Gaz. vol. 219; p. 1159.
- Sargent, Charles E., Chicago, Ill. Gas-driven air-compressor. No. 1,136,488; Apr. 20; Gaz. vol. 213; p. 936.
- Sargent, Charles E., Chicago, Ill. Engine-starting device. No. 1,162,193; Nov. 30; Gaz. vol. 220; p. 1509.
- Sargent, Charles E., assignor to Lyons Atlas Company, Indianapolis, Ind. Rein-controlled device. No. 1,162,728; Nov. 30; Gaz. vol. 220; p. 1689.
- Sargent Company. (See Dunbar, Frank G., assignor.)
- Sargent & Company. (See Barker, Guy R., assignor.)
- Sargent & Company. (See De Ayala, Stephen, assignor.)
- Sargent & Company. (See Kimball, Frank I., assignor.)
- Sargent & Company. (See Kirschner, George W., assignor.)
- Sargent & Company. (See Le May and House, assignors.)
- Sargent & Company. (See Matthews, James E., assignor.)
- Sargent & Company. (See McCleary, Henry, assignor.)
- Sargent & Company. (See Merritt, Irving D., assignor.)
- Sargent & Company. (See Page, Albert A., assignor.)
- Sargent & Company. (See Sargent, Edward R., assignor.)
- Sargent & Company. (See Sargent, Joseph D., assignor.)
- Sargent & Company. (See Shaw, John H., assignor.)
- Sargent & Company. (See Shaw and Page, assignors.)
- Sargent & Company. (See Shipman, Evan J., assignor.)
- Sargent & Company. (See Sparks, William E., assignor.)
- Sargent & Company. (See Sutcliffe, Archibald E., assignor.)
- Sargent & Company. (See Thomas, William N., assignor.)
- Sargent & Company. (See Vaughan, Bertel F., assignor.)
- Sargent & Company. (See Voight, Henry G., assignor.)
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,164,220; Dec. 14; Gaz. vol. 221; p. 563.
- Sargent, Evlan, Moline, Ill. Type-writer. No. 1,155,445; Oct. 5; Gaz. vol. 219; p. 42.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-head. No. 1,126,874; Feb. 2; Gaz. vol. 211; p. 74.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Flanged brake-shoe. No. 1,127,096; Feb. 2; Gaz. vol. 211; p. 153.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Back for brake-shoes. No. 1,157,183; Oct. 19; Gaz. vol. 219; p. 704.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,158,561; Nov. 2; Gaz. vol. 220; p. 54.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,158,562; Nov. 2; Gaz. vol. 220; p. 55.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Reinforcing-back for brake-shoes. No. 1,158,563; Nov. 2; Gaz. vol. 220; p. 55.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Reinforcing-back for brake-shoes. No. 1,158,564; Nov. 2; Gaz. vol. 220; p. 55.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-head. No. 1,160,453; Nov. 16; Gaz. vol. 220; p. 802.
- Sargent, Fitz William, assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Back for brake-shoes. No. 1,160,454; Nov. 16; Gaz. vol. 220; p. 802.
- Sargent, Frederick G., Westford, Mass. Method of and apparatus for selective wireless telegraphy. (Reissue.) No. 14,012; Nov. 16; Gaz. vol. 220; p. 1006.
- Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Pump for wool-washing machines. No. 1,128,056; Feb. 9; Gaz. vol. 211; p. 529.
- Sargent, Frederick G., and C. T. Brooks, Westford, assignors to C. G. Sargent's Sons Corporation, Graniteville, Mass. Apron-guiding device. No. 1,152,439; Sept. 7; Gaz. vol. 218; p. 20.
- Sargent, Frederick S., assignor of one-half to H. C. Orphin, Providence, R. I. Foot-arch support. No. 1,126,296; Jan. 26; Gaz. vol. 210; p. 1208.
- Sargent, George H., Chicago, Ill. Brake-shoe. No. 1,165,453; Dec. 28; Gaz. vol. 221; p. 1075.
- Sargent, Henry D., Worcester, Mass., assignor, by mesne assignments, to C. S. Comstock, New York, N. Y. Loop. No. 1,135,724; Apr. 13; Gaz. vol. 213; p. 625.
- Sargent, James T., Merchantville, N. J. Washboard. No. 1,152,766; Sept. 7; Gaz. vol. 218; p. 141.
- Sargent, Joseph D., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,791; May 4; Gaz. vol. 214; p. 24.
- Sargent, Marshall B., assignor to The Stenotype Company, Indianapolis, Ind. Type-writing machine. No. 1,149,087; Aug. 3; Gaz. vol. 217; p. 212.
- Sargent, Marshall B., and A. E. Karlberg, assignors to The Stenotype Company, Indianapolis, Ind. Type-writing machine. No. 1,153,959; Sept. 21; Gaz. vol. 218; p. 636.
- Sarl, Mary, Cleveland, Ohio. Kitchen utensil. No. 1,138,897; May 11; Gaz. vol. 214; p. 451.
- Sarsfield, John J., and A. W. Dally, Peoria, Ill. Automatic controlling and indicating device. No. 1,164,221; Dec. 14; Gaz. vol. 221; p. 563.
- Sartain, William H., Columbus, Ohio. Deodorizing device. No. 1,140,533; May 25; Gaz. vol. 214; p. 1101.
- Sartolou, John B. (See Gibson and Sartolou.)
- Sartorius, Erich, Göttingen, Germany. Balance. No. 1,132,880; Mar. 23; Gaz. vol. 212; p. 1192.
- Sarvis, William J., Hanover, Ontario, Canada. Stove. No. 1,133,747; Mar. 30; Gaz. vol. 212; p. 1540.
- Sasgen Derrick Company. (See Sasgen, Michael J., assignor.)
- Sasgen, Michael J., assignor to Sasgen Derrick Company, Chicago, Ill. Derrick. No. 1,130,766; Mar. 9; Gaz. vol. 212; p. 357.
- Sasgen, Michael J., assignor to Sasgen Derrick Company, Chicago, Ill. Derrick. No. 1,156,558; Oct. 12; Gaz. vol. 219; p. 454.
- Sasgen, Michael J., assignor to Sasgen Derrick Company, Chicago, Ill. Journal-box. No. 1,164,222; Dec. 14; Gaz. vol. 221; p. 564.
- Sassaman, Benjamin F., West Chester, Pa. Measuring instrument. No. 1,135,208; Apr. 13; Gaz. vol. 213; p. 444.
- Sasseman, David C., River Forest, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Button-feeding mechanism. No. 1,126,091; Jan. 26; Gaz. vol. 210; p. 1135.
- Sasser, Edward C., Spencer, N. C. Cinder-deflector. No. 1,130,110; Mar. 2; Gaz. vol. 212; p. 93.
- Sasser, Edward C., Washington, D. C. Cinder-deflector. No. 1,130,111; Mar. 2; Gaz. vol. 212; p. 94.
- Sater, Charles G., Jeffersonville, Ind. Flexible joint. No. 1,148,862; Aug. 3; Gaz. vol. 217; p. 134.
- Satinover, Joseph, Montreal, Quebec, Canada. Electric trap. No. 1,150,835; Aug. 17; Gaz. vol. 217; p. 998.
- Sato, Ryuji, St. Louis, Mo. Belt-end attachment. No. 1,165,132; Dec. 21; Gaz. vol. 221; p. 926.
- Satterfield, John E., Brownwood, Tex. Level. No. 1,133,887; Mar. 30; Gaz. vol. 212; p. 1591.
- Satterlee, William B., Tacoma, Wash. Mold. No. 1,145,270; July 6; Gaz. vol. 216; p. 103.
- Sattler, Rudolph, Cincinnati, Ohio, and L. J. Morand, Covington, Ky. Inking apparatus. No. 1,130,022; Mar. 2; Gaz. vol. 212; p. 63.
- Sattley Coin Handling Machine Company. (See Rosenstengel, Frederick N., assignor.)
- Sattley, Frederick L., Indianapolis, Ind. Currency-handling machine. No. 1,156,101; Oct. 12; Gaz. vol. 219; p. 296.
- Saubestre, Edouard, New York, N. Y. Puttee. No. 1,138,152; May 4; Gaz. vol. 214; p. 152.
- Sauer, Charles, Fort Plain, N. Y. Protecting-casing for inner tubes. No. 1,146,819; July 20; Gaz. vol. 216; p. 685.
- Sauer, Charles W., Jr., Elizabeth, N. J. Antislipping device for shoes. No. 1,154,890; Sept. 28; Gaz. vol. 218; p. 982.

Alphabetical list of patentees—Continued.

- Sauer, Henry J., Fairfield, Conn. Lamp-bracket. No. 1,158,078; Oct. 26; Gaz. vol. 219; p. 1081.
- Sauerman, Henry B. (See Dierks and Sauerman.)
- Sauerman, Henry B., Chicago, Ill. Material-moving apparatus. No. 1,159,106; Nov. 2; Gaz. vol. 220; p. 240.
- Sauerman, Henry B., Chicago, Ill. Material-moving apparatus. No. 1,159,803; Nov. 9; Gaz. vol. 220; p. 523.
- Sauerman, William E., Ogden, Iowa. Railway signal device. No. 1,153,449; Sept. 14; Gaz. vol. 218; p. 423.
- Sauermann, Franz H. (See Stoebr and Sauermann.)
- Sauerwald, John P., Baltimore, Md. Music-leaf turner. No. 1,164,874; Dec. 21; Gaz. vol. 221; p. 833.
- Saul, John, Jersey City, N. J. Antirattler for windows. No. 1,145,925; July 13; Gaz. vol. 216; p. 352.
- Saul, John, Jersey City, N. J. Antirattler for windows. No. 1,155,446; Oct. 5; Gaz. vol. 219; p. 42.
- Sauler, Edward, St. Edward, Nebr. Driving mechanism for power-tools. No. 1,130,543; Mar. 2; Gaz. vol. 212; p. 247.
- Saulpaw, George L. (See Saulpaw, Karl D., assignor.)
- Saulpaw, Karl D., assignor of one-half to G. L. Saulpaw, Calhoun, Tenn. Fly-swatter. No. 1,164,875; Dec. 21; Gaz. vol. 221; p. 834.
- Sault, William A., assignor of two-fifths to E. Whitehead, Worcester, Mass. Sanding device for street cars. No. 1,140,618; May 25; Gaz. vol. 214; p. 1128.
- Saunders, Augustus M. (See Boyd and Saunders.)
- Saunders, Benjamin P., Iatan, Mo. Shipping-can. No. 1,155,447; Oct. 5; Gaz. vol. 219; p. 43.
- Saunders, Charles, Saginaw, Mich. Ventilator. No. 1,126,875; Feb. 2; Gaz. vol. 211; p. 74.
- Saunders, Charles R., Cleveland, Ohio. Lever-lock. No. 1,138,795; May 11; Gaz. vol. 214; p. 416.
- Saunders, Charles R., Cleveland, Ohio. Automobile-lock. No. 1,138,796; May 11; Gaz. vol. 214; p. 416.
- Saunders, Charles W., North Platte, Nebr. Mandrel. No. 1,159,998; Nov. 9; Gaz. vol. 220; p. 592.
- Saunders, Daniel G., Jr., Kansas City, Mo. Envelop-feeding machine. No. 1,136,171; Apr. 20; Gaz. vol. 213; p. 821.
- Saunders, Edward W., and E. H. Steedman, St. Louis, Mo. Surgical needle-holder. No. 1,131,163; Mar. 9; Gaz. vol. 212; p. 492.
- Saunders, Emily M. (See Saunders, William A., assignor.)
- Saunders, Emily M., Boston, Mass. Mangle-roll. No. 1,154,731; Sept. 28; Gaz. vol. 218; p. 929.
- Saunders, James, Dayton, assignor to W. C. Dunn, Wyoming, Ohio. Truing-machine. No. 1,154,343; Sept. 21; Gaz. vol. 218; p. 769.
- Saunders, John W., and O. K. Förster, Baltimore, Md. Fender for motor-vehicles. No. 1,144,869; June 29; Gaz. vol. 215; p. 1449.
- Saunders, Lewis E., Niagara Falls, N. Y. Preparing barium oxid. (Reissue.) No. 13,924; June 8; Gaz. vol. 215; p. 635.
- Saunders, Randall N., Hudson, N. Y. Collar-button. No. 1,155,962; Oct. 5; Gaz. vol. 219; p. 221.
- Saunders, Whitney W., Red Deer, Alberta, Canada. Self-extinguishing lamp-burner. No. 1,135,850; Apr. 13; Gaz. vol. 213; p. 669.
- Saunders, Whitney W., Red Deer, Alberta, Canada. Spring-clasp. No. 1,160,769; Nov. 16; Gaz. vol. 220; p. 918.
- Saunders, William A., Boston, assignor, by mesne assignments, to E. M. Saunders, Jamaica Plain, Boston, Mass. Mangle. No. 1,135,725; Apr. 13; Gaz. vol. 213; p. 625.
- Saunders, William F., Boston, Mass. Apparatus for washing automobiles and other vehicles. No. 1,158,079; Oct. 26; Gaz. vol. 219; p. 1081.
- Saunderson, Douglas B. (See Mordey, Astley, and Saunderson.)
- Saunderson, Richard A., et al. (See Hammond, John W. and P. M., assignors.)
- Saunooke, Samuel. (See Bookwalter and Saunooke.)
- Saurer, Firm of Adolph. (See Eggart, Karl, assignor.)
- Saurer, Firm of Adolph. (See Stamm, Hans, assignor.)
- Saurer, Firm of Adolph. (See Weber, Emil, assignor.)
- Saurer, Hippolyt, Arbon, Switzerland. Jacquard mechanism for embroidery-machines. No. 1,125,730; Jan. 19; Gaz. vol. 210; p. 973.
- Saurer, Hippolyt, Arbon, Switzerland. Jacquard embroidery-machine. No. 1,138,015; May 4; Gaz. vol. 214; p. 102.
- Saurer, Hippolyt, Arbon, Switzerland. Jacquard embroidery-machine. No. 1,139,375; May 11; Gaz. vol. 214; p. 618.
- Saurer, Hippolyt, Arbon, Switzerland. Automatic embroidery-machine. No. 1,155,007; Sept. 28; Gaz. vol. 218; p. 1022.
- Sauerman, Ernest W., assignor to Transo Paper Company, Chicago, Ill. Centering means for envelop-blank-cutting dies. No. 1,132,979; Mar. 23; Gaz. vol. 212; p. 1230.
- Sauerman, Henry B., Chicago, Ill. Scraper apparatus. No. 1,134,558; Apr. 6; Gaz. vol. 213; p. 173.
- Sauter, Raimund. (See Senger and Sauter.)
- Sautter, Albert P. (See Plumb, Smart, and Sautter.)
- Sauvage Appliance Company. (See Sauvage, William H., assignor.)
- Sauvage, Stanley, Chicago, Ill. Heat-distributor plate for cooking purposes. No. 1,158,727; Nov. 2; Gaz. vol. 220; p. 110.
- Sauvage Ward Brake Company. (See Ward, Frank D., assignor.)
- Sauvage, William H., New York, N. Y. Slack-adjuster for clasp-brakes. No. 1,124,813; Jan. 12; Gaz. vol. 210; p. 610.
- Sauvage, William H., New York, N. Y. Fluid-pressure brake system. No. 1,139,376; May 11; Gaz. vol. 214; p. 618.
- Sauvage, William H., New York, N. Y., assignor, by mesne assignments, of one-half to Standard Coupler Company. Slack-adjuster for railway-brakes. No. 1,136,620; Apr. 20; Gaz. vol. 213; p. 982.
- Sauvage, William H., assignor to Sauvage Appliance Company, Inc., New York, N. Y. Slack-adjuster for railway-brakes. No. 1,143,554; June 15; Gaz. vol. 215; p. 940.
- Sauveur, Harry E. W., Boxhagen-Berlin, Germany. Fluid-pressure-operated alarm device. No. 1,126,297; Jan. 26; Gaz. vol. 210; p. 1208.
- Sauvola, Gustaf, Astoria, Oreg. Elevated railway. No. 1,155,760; Oct. 5; Gaz. vol. 219; p. 150.
- Savage Arms Company. (See Nelson, Charles A., assignor.)
- Savage Arms Company. (See Swartz, William L., assignor.)
- Savage, Arthur W., San Diego, Cal. Making inner tubes for vehicle-tires and the like. No. 1,138,250; May 4; Gaz. vol. 214; p. 184.
- Savage, Ernest T., Bath, Me. Tool. No. 1,157,589; Oct. 19; Gaz. vol. 219; p. 844.
- Savage, Harlow D., Ashland, Ky., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Baffle-wall for locomotive fire-boxes. No. 1,138,045; May 4; Gaz. vol. 214; p. 113.
- Savage, John Y., Scotland Neck, N. C. Step-ladder. No. 1,134,491; Apr. 6; Gaz. vol. 213; p. 149.
- Savage, Marion A., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,135,327; Apr. 13; Gaz. vol. 213; p. 484.
- Savage, Marion A., Schenectady, N. Y., assignor to General Electric Company. Method of and means for measuring the flow of fluids. No. 1,156,630; Oct. 12; Gaz. vol. 219; p. 480.
- Savage, O. R. (See Hague, Alfred G., assignor.)
- Savage, Richard J., and C. E. Schultz, Chicago, Ill. Candy-making machine. No. 1,123,933; Jan. 5; Gaz. vol. 210; p. 250.
- Savage, Richard J., and C. E. Schultz, Chicago, Ill. Candy-making machine. No. 1,162,811; Dec. 7; Gaz. vol. 221; p. 28.
- Savage, Will R., Omaha, Nebr. Optical shutter. No. 1,150,543; Aug. 17; Gaz. vol. 217; p. 897.
- Savage, Will R., Omaha, Nebr. Camera-shutter. No. 1,150,544; Aug. 17; Gaz. vol. 217; p. 898.
- Savage, Will R., Omaha, Nebr. Valve. No. 1,154,811; Sept. 28; Gaz. vol. 218; p. 956.
- Savage, William P., Belleville, Ill. Impact-register. No. 1,125,731; Jan. 19; Gaz. vol. 210; p. 974.
- Savarese, Antonio, Philadelphia, Pa. Combination ironing-pad. No. 1,152,553; Sept. 7; Gaz. vol. 218; p. 64.
- Savell, Walter L. (See Kalmus, Savell, and Blake.)
- Saver, George J. (See Peterson, John M., assignor.)
- Savidge, Albert C., assignor to Savidge Steering Device Company, Indianapolis, Ind. Steering-gear attachment. No. 1,131,796; Mar. 16; Gaz. vol. 212; p. 750.
- Savidge Steering Device Company. (See Savidge, Albert C., assignor.)
- Savidge, William F., Slatington, assignor of two-thirds to O. F. Follweiler and J. F. Paules, Slatedale, Pa. Buriel-casket. No. 1,124,065; Jan. 5; Gaz. vol. 210; p. 294.
- Savin, Ralph B., Philadelphia, Pa., assignor to The S. S. White Dental Manufacturing Company. Bur-stand. No. 1,135,625; Apr. 13; Gaz. vol. 213; p. 590.
- Savitz, Oscar L., assignor of one-third to E. S. Rabenold and one-third to H. E. Wink, Allentown, Pa. Artificial foot. No. 1,160,112; Nov. 9; Gaz. vol. 220; p. 631.
- Savoday Rack Company. (See Buch, Adam J., assignor.)
- Savoday Rack Company. (See Whelan, Thomas F., assignor.)
- Savonius, Sigurd, assignor to J. von Quanten, Helsinki, Finland. Apparatus for melting snow and the like. No. 1,125,732; Jan. 19; Gaz. vol. 210; p. 974.
- Savoureux, Frederick, New York, N. Y. Hair-dressing apparatus. No. 1,145,035; July 6; Gaz. vol. 216; p. 21.
- Savoy, Robert R., Macksville, Kans. Draft-rigging for wagon-tongues. No. 1,124,961; Jan. 12; Gaz. vol. 210; p. 662.
- Savoie, René, Sevrans, and U. Drÿvers, Paris, France. Automatic musical instrument with pneumatic control. No. 1,125,733; Jan. 19; Gaz. vol. 210; p. 974.
- Savoie, René, Sevrans, and H. Zaccoull, Bagnolet, France. File. No. 1,125,734; Jan. 19; Gaz. vol. 210; p. 975.
- Savy, Emile L. A., Paris, France. Sandwich-machine. No. 1,160,532; Nov. 16; Gaz. vol. 220; p. 831.
- Sawamura, Heichi, New York, N. Y. Pen. No. 1,164,552; Dec. 14; Gaz. vol. 221; p. 681.
- Sawatzky, Jacob P., and A. B. Gerbrand, Hutchinson, Kans. Harness-buckle. No. 1,126,876; Feb. 2; Gaz. vol. 211; p. 75.
- Sawman, Axel A., Brooklyn, N. Y. Boat. No. 1,144,434; June 29; Gaz. vol. 215; p. 1300.

Alphabetical list of patentees—Continued.

- Sawrie, Hewlett M., Nashville, Tenn. Hot-air furnace. No. 1,166,085; Dec. 28; Gaz. vol. 221; p. 1294.
- Sawyer, Fred W., Boston, Mass., assignor to The Union Switch and Signal Company, Swissvale, Pa. Block-signal system for electric railways. No. 1,128,057; Feb. 9; Gaz. vol. 211; p. 529.
- Sawyer, Frederick L., New York, N. Y. Fog navigation. No. 1,151,293; Aug. 24; Gaz. vol. 217; p. 1212.
- Sawyer, Harry. (See Whichello and Sawyer.)
- Sawyer, Harry, Muskegon, Mich. Grab-bucket-operating mechanism for cranes. No. 1,157,962; Oct. 26; Gaz. vol. 219; p. 1040.
- Sawyer, Harry B., assignor of one-fifth to F. W. Blair, Ogden, and one-fifth to D. Athay, Salt Lake City, Utah. Hitching appliance. No. 1,145,849; July 6; Gaz. vol. 216; p. 306.
- Sawyer, Harry B., assignor of one-third to F. W. Blair, Ogden, and one-third to D. Athay, Salt Lake City, Utah. Hitching appliance. No. 1,145,850; July 6; Gaz. vol. 216; p. 306.
- Sawyer, Henry, Arctic Center, R. I. Drill-brace. No. 1,124,663; Jan. 12; Gaz. vol. 210; p. 558.
- Sawyer, Orren D. (See Johnson and Sawyer.)
- Sawyer, Stanley F., assignor of one-half to J. F. Stepp, Toledo, Ohio. Article of furniture. No. 1,163,622; Dec. 7; Gaz. vol. 221; p. 311.
- Sawyer, Walter H., Americus, Ga. Bagging-scale. No. 1,140,485; May 25; Gaz. vol. 214; p. 1082.
- Sawyer, Wilbur F., New York, N. Y. Adjustable hat-block. No. 1,128,530; Feb. 16; Gaz. vol. 211; p. 743.
- Sawyer, Will M. (See Crottsly and Sawyer.)
- Sawyer, William A. (See Merritt and Sawyer.)
- Saxe, Joseph J. (See Erbach and Saxe.)
- Saxon, James W., Tecumseh, Okla. Railway-tie. No. 1,165,910; Dec. 28; Gaz. vol. 221; p. 1234.
- Saxton, Joseph. (See Wells and Saxton.)
- Saybolt, George M., Jersey City, N. J. Viscosimeter. No. 1,132,621; Mar. 23; Gaz. vol. 212; p. 1098.
- Sayer, George J., Chicago, Ill. Knife-guard for rotary knives. No. 1,124,962; Jan. 12; Gaz. vol. 210; p. 663.
- Sayer, George J., Chicago, Ill. Device for sharpening rotary blades. No. 1,129,736; Feb. 23; Gaz. vol. 211; p. 1196.
- Sayer, George J., Chicago, Ill. Meat-guide. No. 1,138,509; May 4; Gaz. vol. 214; p. 276.
- Sayer, George J., Chicago, Ill. Meat-guide for slicing machines. No. 1,138,692; May 11; Gaz. vol. 214; p. 377.
- Sayer, George J., Chicago, Ill. Controlling device for refrigerating apparatus. No. 1,148,464; July 27; Gaz. vol. 216; p. 1289.
- Sayer, George J., Chicago, Ill. Refrigerating system. No. 1,148,465; July 27; Gaz. vol. 216; p. 1290.
- Sayer, George J., Chicago, Ill. Rind-cutting machine. No. 1,156,822; Oct. 12; Gaz. vol. 219; p. 546.
- Sayer, Robert C., Redland, Bristol, England. Vehicle propeller-actuating mechanism. No. 1,156,712; Oct. 12; Gaz. vol. 219; p. 508.
- Sayer, Robert C., Bristol, England. Sanitary flushing apparatus. No. 1,161,736; Nov. 23; Gaz. vol. 220; p. 1302.
- Sayers, Albert J., assignor to Link-Belt Company, Chicago, Ill. Coal-washer. No. 1,142,060; June 8; Gaz. vol. 215; p. 379.
- Sayers, Cyril, Jersey City, N. J. Loose-leaf binder. No. 1,153,713; Sept. 14; Gaz. vol. 218; p. 517.
- Sayford, Harry P., Vineland, N. J. Paper-lined finger-bowl. No. 1,164,962; Dec. 21; Gaz. vol. 221; p. 864.
- Sayler, Daniel, Orland, Cal. Gas-gun. No. 1,164,876; Dec. 21; Gaz. vol. 221; p. 834.
- Sayles, Frank A. (See Lewis, Willard I., assignor.)
- Saylor, John R., Pottstown, Pa. Reaming and tapping machine. No. 1,129,020; Feb. 16; Gaz. vol. 211; p. 914.
- Saynisch, Yole, New York, N. Y. Washable corset. No. 1,147,555; July 20; Gaz. vol. 216; p. 943.
- Sayre, Gordon B. (See Apple and Sayre.)
- Scaife, Arthur J., assignor to The White Company, Cleveland, Ohio. Carbureter. No. 1,136,276; Apr. 20; Gaz. vol. 213; p. 858.
- Scanes, Arthur E. L., Ashton-upon-Mersey, and K. Baumann, Urnston, England. Apparatus for measuring or indicating the efficiency of steam-condensers. No. 1,161,254; Nov. 23; Gaz. vol. 220; p. 1135.
- Scanlan, Daniel, assignor of one-third to C. Wortman, St. Louis, Mo. Faucet. No. 1,145,271; July 6; Gaz. vol. 216; p. 103.
- Scanlan, Daniel, assignor of one-third to H. E. Harder, St. Louis, Mo. Device for controlling fluid-pressure. No. 1,146,526; July 13; Gaz. vol. 216; p. 565.
- Scanlan, Daniel, assignor of one-third to H. E. Harder, St. Louis, Mo. Rope-machine. No. 1,150,151; Aug. 17; Gaz. vol. 217; p. 761.
- Scanlon, Thomas M. (See Briarly and Scanlon.)
- Scannell, Maurice E., Omaha, Nebr. Adjustable joint. No. 1,159,422; Nov. 9; Gaz. vol. 220; p. 385.
- Scarborough Co., The. (See Dodson, George W., assignor.)
- Scarborough, Harry Y., Minneapolis, Minn., and J. G. King, Superior, Wis., assignors to Automatic Chemical Closet Company, Minneapolis, Minn. Sanitary closet. No. 1,161,532; Nov. 23; Gaz. vol. 220; p. 1233.
- Scarborough, Walter M., Lancaster, Pa. Illuminated lens sign. No. 1,130,201; Mar. 2; Gaz. vol. 212; p. 125.
- Scardino, Mariano P. and P., Bryan, Tex. Half-car un-loader. No. 1,128,258; Feb. 9; Gaz. vol. 211; p. 598.
- Scardino, Peter. (See Scardino, Mariano and P.)
- Scardino, Pietro, New York, N. Y. Collapsible table for paper-hangers' use. No. 1,140,073; May 18; Gaz. vol. 214; p. 903.
- Scarlett, Joseph, Edgewater, N. J. Attachment for shears. No. 1,124,335; Jan. 12; Gaz. vol. 210; p. 437.
- Scarlett, William E., East Lynn, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Heel-nailing machine. No. 1,165,364; Dec. 21; Gaz. vol. 221; p. 1004.
- Scattergood, George R. (See Allen and Scattergood.)
- Schaaf, Edward, et al. (See Martin, Stephen G., assignor.)
- Schaaf, Joseph H., Louisville, Ky. Sewing-machine auxiliary. No. 1,149,861; Aug. 10; Gaz. vol. 217; p. 595.
- Schaaf, Joseph H., Louisville, Ky. Sewing-machine. No. 1,149,862; Aug. 10; Gaz. vol. 217; p. 596.
- Schaaf, Joseph H., assignor of one-half to M. J. Reh, Louisville, Ky. Sewing-machine attachment. No. 1,149,860; Aug. 10; Gaz. vol. 217; p. 595.
- Schaaff, John T., Washington, D. C. Paper-perforating machine. No. 1,134,018; Mar. 30; Gaz. vol. 212; p. 1630.
- Schanke, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Automatic section-switch. No. 1,126,092; Jan. 26; Gaz. vol. 210; p. 1135.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Supporting structure for trolley-conductors. No. 1,132,734; Mar. 23; Gaz. vol. 212; p. 1139.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley. No. 1,138,693; May 11; Gaz. vol. 214; p. 378.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Supporting structure for trolley-conductors. No. 1,150,067; Aug. 17; Gaz. vol. 217; p. 729.
- Schaanning, Peder C., Bakkelaget, Norway. Rotating rollers for pressing out water from moist wood-pulp, cellulose, and similar materials in endless webs or in sheets. No. 1,123,388; Jan. 5; Gaz. vol. 210; p. 66.
- Schaar, Adolph H. F., assignor of one-half to H. W. Bishop, Oakland, Cal. Electrical selective mechanism. No. 1,159,714; Nov. 9; Gaz. vol. 220; p. 489.
- Schab, John W., Columbus, Ohio. Machine for renovating films for picture-machines. No. 1,162,812; Dec. 7; Gaz. vol. 221; p. 29.
- Schacht, Gustav, Halle-Cröllwitz, Germany. Pulp-vat for paper-making machines. No. 1,162,107; Nov. 30; Gaz. vol. 220; p. 1480.
- Schacht, Gustave A., Cincinnati, Ohio. Centrifugal governor. No. 1,135,054; Apr. 13; Gaz. vol. 213; p. 392.
- Schacht, William F., Huntington, Ind. Force-cup. No. 1,152,981; Sept. 7; Gaz. vol. 218; p. 221.
- Schack, Harry, New York, N. Y. Display-form. No. 1,163,110; Dec. 7; Gaz. vol. 221; p. 131.
- Schad, Adolf, and E. Seidel, Brooklyn, N. Y. Airship. No. 1,135,209; Apr. 13; Gaz. vol. 213; p. 444.
- Schade, Albert, Philadelphia, Pa. Non-return stop-valve. No. 1,137,910; May 4; Gaz. vol. 214; p. 65.
- Schade, Edmund A., assignor to Stanley Rule & Level Company, New Britain, Conn. Bench bracket and vise. No. 1,131,869; Mar. 16; Gaz. vol. 212; p. 775.
- Schade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Vise. No. 1,150,632; Aug. 17; Gaz. vol. 217; p. 929.
- Schade, Edmund A., assignor to The Stanley Rule and Level Company, New Britain, Conn. Leveling-stand and base. No. 1,151,549; Aug. 24; Gaz. vol. 217; p. 1300.
- Schade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 1,164,615; Dec. 14; Gaz. vol. 221; p. 701.
- Schade, Henry, Albany, N. Y. Electric testing instrument. No. 1,144,255; June 22; Gaz. vol. 215; p. 1210.
- Schade, John, Jr., New York, N. Y. Spring fastening device. No. 1,163,372; Dec. 7; Gaz. vol. 221; p. 224.
- Schade, John, Jr., Brooklyn, N. Y., assignor to National Blank Book Company, Holyoke, Mass. Spring-clip for temporary binders. No. 1,125,403; Jan. 19; Gaz. vol. 210; p. 858.
- Schade, John, Jr., Brooklyn, N. Y., assignor to National Blank Book Company, a Voluntary Trust Association of Copartnership, having as trustees J. W. Towne, F. B. Towne, E. S. Towne, and E. W. Wilson, Holyoke, Mass. Die for making hinge-leaves for loose-leaf binders. No. 1,137,291; Apr. 27; Gaz. vol. 213; p. 1260.
- Schade, John, Jr., Brooklyn, N. Y., assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,140,534; May 25; Gaz. vol. 214; p. 1101.
- Schade, John, Jr., Brooklyn, N. Y., assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,157,184; Oct. 19; Gaz. vol. 219; p. 705.
- Schade, John, Jr., Brooklyn, N. Y., assignor to National Blank Book Company, trustee, Holyoke, Mass. Loose-leaf binder. No. 1,163,178; Dec. 7; Gaz. vol. 221; p. 156.

- Schade, John, Jr., Brooklyn, N. Y., assignor to National Blank Book Company, trustee, Holyoke, Mass. Loose-leaf binder. No. 1,163,179; Dec. 7; Gaz. vol. 221; p. 156.
- Schade, John, Jr., assignor to Farnestock Electric Company, New York, N. Y. Fastening device for electrical conductors. No. 1,163,371; Dec. 7; Gaz. vol. 221; p. 224.
- Schade Valve Manufacturing Company. (See Lewis, Leroy M., assignor.)
- Schaefer, Bela, assignor to Firm of Hartmann & Braun A. G., Frankfurt-on-the-Main, Germany. Vapor alternating-current rectifier and similar apparatus. No. 1,126,877; Feb. 2; Gaz. vol. 211; p. 75.
- Schaefer, Charles, Toledo, Ohio. Shoe-last. No. 1,141,584; June 1; Gaz. vol. 215; p. 178.
- Schaefer, Chris P. (See Schaefer, George H. T., C. P., and H. P.)
- Schaefer, Edward H., Stapleton, N. Y. Crown-cleaning machine. No. 1,143,231; June 15; Gaz. vol. 215; p. 830.
- Schaefer, Ernst, Scranton, Pa., assignor, by mesne assignments, to G. E. Pettey, Memphis, Tenn. Fuel-saving device. No. 1,141,657; June 1; Gaz. vol. 215; p. 203.
- Schaefer, Ferdinand A., Raspeburg, Md., assignor of one-half to G. R. Riggs, Washington, D. C. Vehicle-wheel. No. 1,156,318; Oct. 12; Gaz. vol. 219; p. 367.
- Schaefer, Frank M., assignor to Schaefer Manufacturing Company, Chicago, Ill. Butter-cutter. No. 1,165,716; Dec. 28; Gaz. vol. 221; p. 1168.
- Schaefer, Frederic, Pittsburgh, Pa. Trussed brake-lever. No. 1,164,405; Dec. 14; Gaz. vol. 221; p. 630.
- Schaefer, Frederic, Pittsburgh, Pa. Brake-rod jaw. No. 1,164,406; Dec. 14; Gaz. vol. 221; p. 630.
- Schaefer, George H. T., Atchison, Kans. Clamping device for molds. No. 1,159,279; Nov. 2; Gaz. vol. 220; p. 302.
- Schaefer, George H. T., Atchison, C. P. and H. P. Schaefer, Topeka, Kans. Mortising-machine. No. 1,126,093; Jan. 26; Gaz. vol. 210; p. 1136.
- Schaefer, Henry P. (See Schaefer, George H. T., C. P., and H. P.)
- Schaefer, Hugo. (See Pannecoucke and Schaefer.)
- Schaefer, Jacob. (See Halladay and Schaefer.)
- Schaefer, Joseph, Frankfurt-on-the-Main, Germany. Mash-filter plate. No. 1,138,251; May 4; Gaz. vol. 214; p. 184.
- Schaefer, Joseph, Frankfurt-on-the-Main, Germany. Extracting wort from mashes. No. 1,141,491; June 1; Gaz. vol. 215; p. 145.
- Schaefer, Joseph F. (See Hoffman and Schaefer.)
- Schaefer, Joseph P., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Extension-drawer construction. No. 1,160,455; Nov. 16; Gaz. vol. 220; p. 802.
- Schaefer, Karl, Charlottenberg, assignor to Berlin-Anhaltische Maschinenbau-Aktien-Gesellschaft, Berlin, Germany. Producing hydrogen. No. 1,144,730; June 29; Gaz. vol. 215; p. 1401.
- Schaefer Manufacturing Company. (See Schaefer, Frank M., assignor.)
- Schaefer, Oscar E., St. Louis, Mo. Check-book and wrapper for the stubs thereof. No. 1,126,878; Feb. 2; Gaz. vol. 211; p. 76.
- Schaefer, Philipp, *et al.* (See Belicza, Eugene, assignor.)
- Schaefer, William K., Fairmont, W. Va. Oven. No. 1,148,863; Aug. 3; Gaz. vol. 217; p. 185.
- Schaefer, William P., Philadelphia, Pa. Hat. No. 1,150,633; Aug. 17; Gaz. vol. 217; p. 929.
- Schaefer, August, Frankfurt-on-the-Main, Germany. Electrically-driven fan. No. 1,160,770; Nov. 16; Gaz. vol. 220; p. 918.
- Schaeffer & Budenberg Mfg. Co., The. (See Amthor, Fritz E., assignor.)
- Schaeneman, Lewis G., Albany, N. Y. Barrel. No. 1,145,801; July 6; Gaz. vol. 216; p. 289.
- Schaetzel, George H., St. Louis, Mo. Lighting device for gas-burners. No. 1,134,350; Apr. 6; Gaz. vol. 213; p. 98.
- Schaetzel, George H., assignor to Pfenninger Pretzel & Baking Company, St. Louis, Mo. Pretzel-making machine. No. 1,142,533; June 8; Gaz. vol. 215; p. 546.
- Schafer, Cecil K. (See Von Dorn, Calvin W., assignor.)
- Schafer, Edward, Niederschöneweide, Germany, assignor to General Electric Company. Motor-vehicle. No. 1,159,107; Nov. 2; Gaz. vol. 220; p. 241.
- Schafer, Frank, Barborton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for assembling match-books, &c. No. 1,132,285; Mar. 16; Gaz. vol. 212; p. 928.
- Schafer, Philip E. (See Teuteberg and Schafer.)
- Schafer, William, San Francisco, Cal. Internal-combustion pump. No. 1,158,303; Oct. 26; Gaz. vol. 219; p. 1160.
- Schafer, William H., Hastings, Mich. Rail-chair. No. 1,145,272; July 6; Gaz. vol. 216; p. 104.
- Schaff, Schuyler R., Louisville, Ky. Appointment-announcer. No. 1,137,427; Apr. 27; Gaz. vol. 213; p. 1310.
- Schaff, Schuyler R., Louisville, Ky. Guy-anchor. No. 1,153,450; Sept. 14; Gaz. vol. 218; p. 423.
- Schaffer, John C., Toledo, Ohio. Sand-drier. No. 1,134,762; Apr. 6; Gaz. vol. 213; p. 248.
- Schaffer, John C., Toledo, Ohio. Kiln. No. 1,147,446; July 20; Gaz. vol. 216; p. 906.
- Schaffer, Martin R., Reading, Pa. Door-bell and burglar-alarm. No. 1,130,436; Mar. 2; Gaz. vol. 212; p. 208.
- Schaffer, Martin R., assignor of one-fourth to W. S. Yocom and one-fourth to F. Colletti, Reading, Pa. Umbrella. No. 1,135,055; Apr. 13; Gaz. vol. 213; p. 392.
- Schaffer, Nettie C., Milwaukee, Wis. Automobile-fender. No. 1,137,170; Apr. 27; Gaz. vol. 213; p. 1215.
- Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Adjustable unit-shelving. No. 1,126,094; Jan. 26; Gaz. vol. 210; p. 1136.
- Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Drawer for cabinets and other articles of furniture. No. 1,129,831; Feb. 23; Gaz. vol. 211; p. 1229.
- Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Drawer-follower. No. 1,154,211; Sept. 21; Gaz. vol. 218; p. 721.
- Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Adjustable sectional shelving. No. 1,161,792; Nov. 23; Gaz. vol. 220; p. 1322.
- Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Safe-cabinet construction. No. 1,164,123; Dec. 14; Gaz. vol. 221; p. 532.
- Schalck, Theodore F., Long Beach, Cal. Automobile-bed. No. 1,156,631; Oct. 12; Gaz. vol. 219; p. 480.
- Schainost, Joseph F., Bloomfield, Neb. Adjustable colter for plows. No. 1,135,403; Apr. 13; Gaz. vol. 213; p. 510.
- Schairer, Otto S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,147,686; July 20; Gaz. vol. 216; p. 989.
- Schairer, Otto S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,147,687; July 20; Gaz. vol. 216; p. 990.
- Schairer, Otto S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,147,688; July 20; Gaz. vol. 216; p. 990.
- Schalk, William, West Allis, Wis. Box. No. 1,152,054; Aug. 31; Gaz. vol. 217; p. 1620.
- Schalkau, Arthur, Schöneberg, near Berlin, assignor to Siemens-Schuckert Werke, G. m. b. H., Berlin, Germany. Apparatus for driving electrical machines. No. 1,160,771; Nov. 16; Gaz. vol. 220; p. 918.
- Schall, John, Evergreen Park, Ill. Rotatable shoe-heel. No. 1,140,004; May 18; Gaz. vol. 214; p. 878.
- Schaller, Michael D., Durhamville, N. Y. Roofing-tongs. No. 1,151,053; Aug. 24; Gaz. vol. 217; p. 1130.
- Schaller, Otto, Siedende, near Berlin, Germany. Electric lamp. No. 1,155,963; Oct. 5; Gaz. vol. 219; p. 222.
- Schanandoah, Chapman, Brooklyn, N. Y. Explosive. No. 1,141,009; May 25; Gaz. vol. 214; p. 1263.
- Schanck, Ephraim L., Delaware, Ohio. Portable barrel-truck. No. 1,146,527; July 13; Gaz. vol. 216; p. 565.
- Schanck, George H., Libertyville, Ill. Flying-machine. No. 1,133,748; Mar. 30; Gaz. vol. 212; p. 1540.
- Schandoney, Frederick W., Sprague, Wash. Device for up-setting the links of chains. No. 1,155,513; Oct. 5; Gaz. vol. 219; p. 67.
- Schane, David, New York, N. Y. Supporting means for submarine mines. No. 1,150,889; Aug. 24; Gaz. vol. 217; p. 1074.
- Schane, Edward H. (See Caughey, Edward G., assignor.)
- Schanzenbach & Co. G. m. b. H., G. (See Schmidt and Müller, assignors.)
- Scharf, John A., Richmond, Ohio. Automobile trailer-coupling. No. 1,157,590; Oct. 19; Gaz. vol. 219; p. 845.
- Scharold, Joseph W., Cincinnati, Ohio, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Controlling device for automatic musical instruments. No. 1,124,814; Jan. 12; Gaz. vol. 210; p. 610.
- Scharwath, John A., Brooklyn, N. Y. Fire and water proof composition and preparing the same. No. 1,136,370; Apr. 20; Gaz. vol. 213; p. 893.
- Schatte, Charles, New York, N. Y. Spring-motor. No. 1,130,637; Mar. 2; Gaz. vol. 212; p. 278.
- Schatterman, Louise, Moline, Ill. Lemon-squeezer. No. 1,141,834; June 1; Gaz. vol. 215; p. 261.
- Schatz, H. J. (See Pollock, Earl H., assignor.)
- Schatz, Herman W., Norwood, assignor to American Tool Works Company, Cincinnati, Ohio. Belt-shifter. No. 1,125,404; Jan. 19; Gaz. vol. 210; p. 858.
- Schatzel, Leo J., Fostoria, assignor of one-half to O. V. Maurer, Cleveland, Ohio. Dry battery. No. 1,147,753; July 27; Gaz. vol. 216; p. 1039.
- Schaub, Charles M., assignor to Central Glass Works, Wheeling, W. Va. Glass-shearing apparatus. No. 1,134,763; Apr. 6; Gaz. vol. 213; p. 249.
- Schaub, Emil, Weehawken, N. J., assignor to P. Voiges, New York, N. Y. Apparatus for dissolving and treating vegetable tanning extracts. No. 1,158,304; Oct. 26; Gaz. vol. 219; p. 1160.
- Schaub, Jacob, Logan, Utah. Communion-service. No. 1,156,319; Oct. 12; Gaz. vol. 219; p. 368.
- Schaum, Frank A. (See Wiedeman and Schaum.)

Alphabetical list of patentees—Continued.

- Schaum, Frank A., Detroit, and E. F. Wales, Leesville, Mich. Keg or container. No. 1,125,735; Jan. 19; Gaz. vol. 210; p. 975.
- Schauman, Bror M., assignor to W. A. Cameron, New York, N. Y. Carrier for eggs or the like. No. 1,165,133; Dec. 21; Gaz. vol. 221; p. 926.
- Scheble, Eugene S., Cleburne, assignor of forty one-hundredths to D. F. Welch, W. A. Roberts, and A. S. Lewis, Dallas, Tex. Cotton-picker. No. 1,123,601; Jan. 5; Gaz. vol. 210; p. 138.
- Schebler, George M., assignor to F. H. Wheeler, Indianapolis, Ind. Carbureter. No. 1,156,823; Oct. 12; Gaz. vol. 219; p. 546.
- Schee, Charles E., Farmington, Iowa. Hay-press. No. 1,126,298; Jan. 26; Gaz. vol. 210; p. 1209.
- Scheeff, Gustave A., Indianapolis, Ind. Induction-meter. No. 1,158,565; Nov. 2; Gaz. vol. 220; p. 55.
- Scheeff, Gustave A., Indianapolis, Ind., assignor, by mesne assignments, to Roller Smith Co., New York, N. Y. Electricity-meter. No. 1,137,027; Apr. 27; Gaz. vol. 213; p. 1163.
- Scheel, George L., Chicago, Ill. Hair-drying device. No. 1,137,792; May 4; Gaz. vol. 214; p. 24.
- Scheel, H. P., *et al.* (See Perry and Kenworthy, assignors.)
- Scheer, John C. C., Beaver Falls, Pa. Shoe-polishing machine. No. 1,137,292; Apr. 27; Gaz. vol. 213; p. 1261.
- Scheibe, Harold M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Centrifugal switch. No. 1,162,518; Nov. 30; Gaz. vol. 220; p. 1621.
- Scheibner, Otto C. (See Tilman and Scheibner.)
- Scheibner, Walter E., Wilbur, Wash. Variable-speed-transmission device. No. 1,153,261; Sept. 14; Gaz. vol. 218; p. 354.
- Scheick, Wenzel, Waterbury, Conn. Air injector. No. 1,155,620; Oct. 5; Gaz. vol. 219; p. 102.
- Scheidel-Western X-Ray Coil Company. (See Hutton, Samuel T., assignor.)
- Scheiden, Charles, Denver, Colo. Track-cleaner. No. 1,147,122; July 20; Gaz. vol. 216; p. 791.
- Schedler, Henry R., Newark, Ohio. Jack. No. 1,161,982; Nov. 30; Gaz. vol. 220; p. 1435.
- Schellga, Raymond, Hawthorne, Cal. Cushion-tire. No. 1,148,993; Aug. 3; Gaz. vol. 217; p. 180.
- Schell, Charles F., Buffalo, assignor to J. T. Badgley, Dunkirk, N. Y. Stand for garbage and other receptacles. No. 1,137,355; Apr. 27; Gaz. vol. 213; p. 1284.
- Schellenbach, William, Hartwell, W. Lodge, and N. D. Chard, assignors to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Narrow tool-support. No. 1,154,939; Sept. 28; Gaz. vol. 218; p. 1000.
- Schellerbach, William L., Hartwell, Ohio. Work-securing mechanism. No. 1,133,064; Mar. 23; Gaz. vol. 212; p. 1261.
- Schellenbach, William L., Hartwell, Ohio. Multiple-tool holder. No. 1,152,055; Aug. 31; Gaz. vol. 217; p. 1520.
- Schellenbach, William L., Hartwell, Ohio. Length-stop. No. 1,163,861; Dec. 14; Gaz. vol. 221; p. 440.
- Schellenger, Newton C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,147,895; July 27; Gaz. vol. 216; p. 1088.
- Schemmann, Wilhelm. (See Bronn and Schemmann.)
- Schemmer, August J., Sandusky, Ohio. Combination-tool. No. 1,138,153; May 4; Gaz. vol. 214; p. 152.
- Schenck, Arthur E., Bethany, Ohio. Steering-gear for tractors. No. 1,163,862; Dec. 14; Gaz. vol. 221; p. 441.
- Schenck, Charles. (See Wyde and Schenck.) (Reissue.)
- Schenck, Payette W. (See Schmidt, John A., assignor.)
- Schenck, Henry L., Decatur, Ill. Changeable-speed gear mechanism. No. 1,156,102; Oct. 12; Gaz. vol. 219; p. 297.
- Schender, Paul H., assignor to Lovell Manufacturing Company, Erie, Pa. Compressing-rolls and mountings therefor. No. 1,137,028; Apr. 27; Gaz. vol. 213; p. 1164.
- Schenk, Edward G., Louisville, Ky. Window-screen. No. 1,143,863; June 22; Gaz. vol. 215; p. 1071.
- Schenk, John D., Menno, S. D. Condenser and vaporizer. No. 1,151,054; Aug. 24; Gaz. vol. 217; p. 1131.
- Schenk, Nicholas, St. Louis, Mo. Demountable rim for vehicle-wheels. No. 1,128,531; Feb. 16; Gaz. vol. 211; p. 743.
- Schenka, Wilhelm, Forst, Germany. Loom-dobby. No. 1,159,999; Nov. 9; Gaz. vol. 220; p. 592.
- Schenkein, Samuel M., New York, N. Y. Polishing gems. No. 1,132,881; Mar. 23; Gaz. vol. 212; p. 1193.
- Schenkein, Samuel M., New York, N. Y. Gem-polishing machine. No. 1,132,882; Mar. 23; Gaz. vol. 212; p. 1193.
- Schenkein, Samuel M., and O. P. R. Lehmann, New York, N. Y.; said Lehmann assignor to said Schenkein. Gem-polishing machine. No. 1,166,006; Dec. 28; Gaz. vol. 221; p. 1268.
- Schenkenberg, Frederick, Dallas, Tex. Horse-collar. No. 1,143,728; June 22; Gaz. vol. 215; p. 1024.
- Schenstrom, Wilhelm, *et al.* (See Kenyon, Otis A., assignor.)
- Schepman, Frederick W., *et al.* (See Teamer, James M., assignor.)
- Schepmann, Christian F., Ellis, Kans. Conveyer-belt. No. 1,151,218; Aug. 24; Gaz. vol. 217; p. 1188.
- Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Electric fixture. No. 1,123,389; Jan. 5; Gaz. vol. 210; p. 66.
- Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to Safety Car Heating & Lighting Company. Lamp. No. 1,131,428; Mar. 9; Gaz. vol. 212; p. 534.
- Scheppmann, Samuel B., St. Paul, Minn. Watering-tank and heater. No. 1,135,851; Apr. 13; Gaz. vol. 213; p. 670.
- Scherbel, Ludwig, Bussi, Aquila, assignor to Societa Italiana di Elettrochimica, Rome, Italy. Manufacturing iron-oxid castings. No. 1,163,467; Dec. 7; Gaz. vol. 221; p. 256.
- Scherbius, Arthur, Baden, Switzerland. Variable-frequency commutator-machine. No. 1,127,290; Feb. 2; Gaz. vol. 211; p. 220.
- Scherbius, Arthur, Baden, Switzerland, assignor to General Electric Company. Stabilized commutator-machine. No. 1,164,223; Dec. 14; Gaz. vol. 221; p. 564.
- Scherbring, Frank H., Arcadia, Iowa. Corn-husker. No. 1,146,285; July 13; Gaz. vol. 216; p. 478.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Stack-head for hot-air stacks or conduits. No. 1,141,492; June 1; Gaz. vol. 215; p. 145.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Means for securing register-frames to stack-heads. No. 1,141,493; June 1; Gaz. vol. 215; p. 145.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Stack head or boot for hot-air stacks. No. 1,155,761; Oct. 5; Gaz. vol. 219; p. 151.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Transversely-bracing and interlocking hot-air stack of rectangular cross-section. No. 1,160,202; Nov. 16; Gaz. vol. 220; p. 716.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Package of elbows. No. 1,160,203; Nov. 16; Gaz. vol. 220; p. 716.
- Scherer, Florentine D., *et al.* (See Haddigan, Michael J., assignor.)
- Scherer, Henry, Billings, Mont. Automatic door-lock for fire-doors. No. 1,126,574; Jan. 26; Gaz. vol. 210; p. 1311.
- Scherer, Henry, Billings, Mont. Electric-bulb holder. No. 1,151,219; Aug. 24; Gaz. vol. 217; p. 1188.
- Scherer, Henry, Billings, Mont. Ball-and-socket attachment for chains. No. 1,153,451; Sept. 14; Gaz. vol. 218; p. 424.
- Scherer, John H. (See Boekel and Scherer.)
- Scherling, Rudolph C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Gearing. No. 1,151,220; Aug. 24; Gaz. vol. 217; p. 1188.
- Schermack, Joseph J., assignor to Detroit Mailing Machine Co., Detroit, Mich. Envelop sealing and stamping machine. No. 1,146,902; July 20; Gaz. vol. 216; p. 714.
- Schermerhorn, Amos J., assignor of one-third to J. C. Greene, Deposit, N. Y. Air-valve connector. No. 1,131,557; Mar. 9; Gaz. vol. 212; p. 628.
- Schermerhorn, Edwards F. (See Wolhaupter and Schermerhorn.)
- Schermerhorn, Edward F., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,142,632; June 8; Gaz. vol. 215; p. 579.
- Schermerhorn, Edwards F., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,152,344; Aug. 31; Gaz. vol. 217; p. 1620.
- Schermerhorn, Edwards F., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Means for insulating rail-joints. No. 1,164,020; Dec. 14; Gaz. vol. 221; p. 495.
- Scherpenberg, Herman. (See Reisert, Wendelin, assignor.)
- Scherrer, Charles J., Council Bluffs, Iowa. Combined hoist and conveyer. No. 1,143,786; June 22; Gaz. vol. 215; p. 1043.
- Scherzinger, Frank F., Chicago, Ill. Rail-cloth protector for billiard-tables. No. 1,137,668; Apr. 27; Gaz. vol. 213; p. 1389.
- Scheu, John L., Susanville, Cal. Tie-clasp. No. 1,139,585; May 18; Gaz. vol. 214; p. 728.
- Scheu, William C., Grand Junction, Colo. Orchard heater. No. 1,136,902; Apr. 20; Gaz. vol. 213; p. 1081.
- Scheu, William C., Grand Junction, Colo., assignor to Hamilton Orchard Heater Company. Wheeling, W. Va. Draft-regulator for orchard-heaters. No. 1,134,764; Apr. 6; Gaz. vol. 213; p. 249.
- Scheu, William C., Grand Junction, Colo., assignor of one-half to S. B. Hampton, Corona, Cal. Orchard-heater. No. 1,148,803; Aug. 3; Gaz. vol. 217; p. 115.
- Scheu, William C., Grand Junction, Colo., assignor of one-half to S. B. Hampton, Corona, Cal. Orchard-heater. No. 1,148,804; Aug. 3; Gaz. vol. 217; p. 115.
- Scheuber, William F., Marshall, Tex. Expansion-reamer. No. 1,152,440; Sept. 7; Gaz. vol. 218; p. 20.
- Scheuch, Jacob J., assignor to The White Tar Company, New York, N. Y. Closure for mothproof bags. No. 1,130,342; Mar. 2; Gaz. vol. 212; p. 173.
- Scheuer, Belle. (See Schwarzschild and Scheuer.)

- Scheuer, Joseph F., Two Rivers, Wis. Thermal circuit-closer. No. 1,159,602; Nov. 9; Gaz. vol. 220; p. 449.
- Scheuerle, Henry A., Philadelphia, Pa. Mechanism for making bifocal lenses. No. 1,140,401; May 25; Gaz. vol. 214; p. 1051.
- Scheuerle, Henry A., Philadelphia, Pa. Mechanism for making bifocal lenses. (Reissue.) No. 13,954; July 27; Gaz. vol. 216; p. 1302.
- Scheurich, John E. (See Scheurich, Joseph M., assignor.)
- Scheurich, Joseph M., Chicago, Ill., assignor of one-half to J. E. Scheurich, Hot Springs, Ark. Vehicle-wheel. No. 1,132,059; Mar. 16; Gaz. vol. 212; p. 836.
- Scheurmann, Walter P., Dayton, Ohio. Centrifugal pump. No. 1,163,778; Dec. 14; Gaz. vol. 221; p. 411.
- Scheurmann, Walter P., assignor to The Hill-Tripp Pump Company, Anderson, Ind. Deep-well pump. No. 1,141,010; May 25; Gaz. vol. 214; p. 1263.
- Schiavon, Merrian. (See Ehrhardt and Schiavon.)
- Schick, Adolph Wheeling, W. Va. Cushion-tire. No. 1,132,798; Mar. 23; Gaz. vol. 212; p. 1163.
- Schick, August F., assignor to George Lawrence Company, Portland, Oreg. Saddle. No. 1,159,715; Nov. 9; Gaz. vol. 220; p. 490.
- Schicker, George L. (See Specht, Christ A., assignor.)
- Schidrowitz, Philip, and H. A. Goldsborough, London, England. Rubber substance and making same. No. 1,156,184; Oct. 12; Gaz. vol. 219; p. 324.
- Schieble Toy & Novelty Company, The. (See Norris, Harvey O., assignor.)
- Schieble Toy & Novelty Company, The. (See Turner, John C., assignor.)
- Schiechel, Friedrich A. M., Frankfort-on-the-Main, Germany. Apparatus for separating minerals and like materials. No. 1,151,722; Aug. 31; Gaz. vol. 217; p. 1403.
- Schick, George H., and G. P. Bittermann, Joliet, Ill. Clamp. No. 1,145,514; July 6; Gaz. vol. 216; p. 188.
- Schiele, Arthur R., and C. H. Morrow, Cleveland, Ohio. Gas-controlling apparatus. No. 1,161,415; Nov. 23; Gaz. vol. 220; p. 1193.
- Schiele, Frank C., Chicago, Ill. Automatic shut-off valve. No. 1,133,506; Mar. 30; Gaz. vol. 212; p. 1452.
- Schiemer, Charles J. (See Scott and Schiemer.)
- Schierding, William, Wallace, Idaho. Motor-propelled vehicle. No. 1,142,204; June 8; Gaz. vol. 215; p. 429.
- Schies, John, Anderson, Ind. Bottle or jar closure. No. 1,135,328; Apr. 13; Gaz. vol. 213; p. 485.
- Schies, John, Anderson, Ind. Vehicle-wheel. No. 1,142,985; June 15; Gaz. vol. 215; p. 742.
- Schiessler, Josef, Baden, near Vienna, Austria-Hungary. Transmitting apparatus for submarine signals. No. 1,126,095; Jan. 26; Gaz. vol. 210; p. 1136.
- Schiessler, Josef, Baden, near Vienna, Austria-Hungary. Transmitting apparatus for submarine signaling. No. 1,152,661; Sept. 7; Gaz. vol. 218; p. 104.
- Schiessler, Josef, Baden, near Vienna, Austria-Hungary. Telephone-relay. No. 1,164,407; Dec. 14; Gaz. vol. 221; p. 631.
- Schiessler, Josef, Baden, near Vienna, Austria-Hungary. Apparatus for receiving and strengthening electric oscillations. No. 1,165,454; Dec. 28; Gaz. vol. 221; p. 1075.
- Schiff, Bernard, assignor to R. G. Schiff, New York, N. Y. Maternity skirt or dress. No. 1,128,906; Feb. 16; Gaz. vol. 211; p. 874.
- Schiff, Rosebel G. (See Schiff, Bernard, assignor.)
- Schiff, Sarah G., Chicago, Ill. Spool-holder. No. 1,130,437; Mar. 2; Gaz. vol. 212; p. 208.
- Schiff, Sigmund, New York, N. Y. Capillary bottle-stopper. No. 1,127,812; Feb. 9; Gaz. vol. 211; p. 444.
- Schiff, Sigmund, New York, N. Y. Neck-roll apparatus for bottle-making. No. 1,130,845; Mar. 9; Gaz. vol. 212; p. 384.
- Schildhauer, Edward, Culebra, Canal Zone. Circuit-controlling mechanism. No. 1,142,847; June 15; Gaz. vol. 215; p. 691.
- Schildwachter, William, Walworth, Nebr. Drill-rod extractor. No. 1,163,560; Dec. 7; Gaz. vol. 221; p. 288.
- Schildwachter, William, Walworth, Nebr. Drill-rod tap. No. 1,163,561; Dec. 7; Gaz. vol. 221; p. 288.
- Schill, Emil, New York, N. Y., assignor to Continental Gas Compressing Corporation. Apparatus for obtaining liquid hydrocarbons. No. 1,142,275; June 8; Gaz. vol. 215; p. 455.
- Schiller, Carl, New York, N. Y. Protective apparatus for repairers of bakers' ovens. No. 1,152,554; Sept. 7; Gaz. vol. 218; p. 64.
- Schiller, Edwin G., Kokomo, Ind. Trap-nest. No. 1,134,912; Apr. 6; Gaz. vol. 213; p. 295.
- Schiller, Maximilian, assignor to E. Oppenheimer, Sr., Philadelphia, Pa. Means for holding symbols in frames. No. 1,135,726; Apr. 13; Gaz. vol. 213; p. 626.
- Schilling, August, Oakland, Cal. Grading, harvesting, and recovering salt. No. 1,160,533; Nov. 16; Gaz. vol. 220; p. 831.
- Schilling, George F., Philadelphia, Pa. Measuring-gage. No. 1,149,469; Aug. 10; Gaz. vol. 217; p. 452.
- Schilling, John M., Chicago, Ill. Interchangeable-letter bulletin-board. No. 1,146,528; July 13; Gaz. vol. 216; p. 566.
- Schilly, Meinrad L., Pierron, Ill. Sauer-krant machine. No. 1,149,954; Aug. 10; Gaz. vol. 217; p. 629.
- Schilowsky, Peter, Simbirsk, Russia. Gyroscope. No. 1,137,234; Apr. 27; Gaz. vol. 213; p. 1239.
- Schimanski, Rudolf A., Spokane, Wash. Clothes-drier. No. 1,126,575; Jan. 26; Gaz. vol. 210; p. 1311.
- Schimmel, David E., New York, assignor of one-half to J. Cohen, Brooklyn, N. Y. Emergency-brake for vehicles. No. 1,150,707; Aug. 17; Gaz. vol. 217; p. 954.
- Schimmel, Gustav R., Detroit, Mich. Hypodermic syringe. No. 1,125,887; Jan. 19; Gaz. vol. 210; p. 1026.
- Schimmel, Walter E., Watertown, Wis. Humidor. No. 1,145,218; July 6; Gaz. vol. 216; p. 84.
- Schimmelpfennig, John, Cedar Rapids, Iowa. Roof-shingling seat. No. 1,143,555; June 15; Gaz. vol. 215; p. 941.
- Schindler, Alfred. (See Jackson and Schindler.)
- Schindler, Charles, Toledo, Ohio. Toy. No. 1,145,219; July 6; Gaz. vol. 216; p. 84.
- Schinke, Franklin E., Chicago, Ill. Circuit-closer. No. 1,151,828; Aug. 31; Gaz. vol. 217; p. 1443.
- Schinscholl, Erich, Ashland, N. H., assignor to H. Elsas, trustee, New York, N. Y. Pulp-bottle machine. No. 1,137,669; Apr. 27; Gaz. vol. 213; p. 1389.
- Schj6dt, Frederik V., assignor, by mesne assignments, to Patents Selling & Exporting Co. Aktieselskab, Copenhagen, Denmark. Apparatus for the extraction of dust from carpets and other articles. (Reissue.) No. 14,029; Dec. 7; Gaz. vol. 221; p. 316.
- Schifter, John, Newport, Ky. Resilient wheel. No. 1,163,562; Dec. 7; Gaz. vol. 221; p. 289.
- Schirmacher, Karl, and A. Voss, assignors to Farbwerke vorm. Meister Lucius & Brünning, Höchst-on-the-Main, Germany. Vat dyestuffs and making same. No. 1,123,390; Jan. 5; Gaz. vol. 210; p. 66.
- Schirmer, Theodore F., assignor to The Standard Register Company, Dayton, Ohio. Autographic register. No. 1,150,890; Aug. 24; Gaz. vol. 217; p. 1075.
- Schisler, Frank J., Winthrop, Minn. Journal-bearing. No. 1,141,835; June 1; Gaz. vol. 215; p. 261.
- Schlabach, Charles H., assignor to The Hygienic Products Company, Canton, Ohio. Cleaning-powder. No. 1,124,664; Jan. 12; Gaz. vol. 210; p. 558.
- Schlabach, Daniel C., Dundee, Ohio. Tire-tightener. No. 1,165,628; Dec. 28; Gaz. vol. 221; p. 1136.
- Schlabach, Otto M., administrator. (See Mathisen, Ole M.)
- Schlachter, Carl A., Manson, Iowa. Wardrobe. No. 1,154,659; Sept. 28; Gaz. vol. 218; p. 906.
- Schlack, Harry H., Philadelphia, Pa. Music-turner. No. 1,150,393; Aug. 17; Gaz. vol. 217; p. 845.
- Schacks, Henry J., Chicago, Ill. Operating-room for hospitals. No. 1,134,161; Apr. 6; Gaz. vol. 213; p. 28.
- Schacks, William J., assignor to McCord and Company, Chicago, Ill. Force-feed lubricator. No. 1,145,515; July 6; Gaz. vol. 216; p. 189.
- Schacks, William J., assignor to McCord and Company, Chicago, Ill. Equalized car-truck. No. 1,148,629; Aug. 3; Gaz. vol. 217; p. 53.
- Schlaflly, Julius H., assignor to The Canton Culvert Company, Canton, Ohio. Sheet-metal structural section. No. 1,141,417; June 1; Gaz. vol. 215; p. 119.
- Schlag, Edward H. (See Schlag, Burdorf, and Schlag.)
- Schlag, Oscar W., H. H. Burdorf, and E. H. Schlag, Chicago, Ill. Railway signaling system. No. 1,125,736; Jan. 19; Gaz. vol. 210; p. 975.
- Schlager, Leon, New York, N. Y. Baker's peel. No. 1,145,617; July 6; Gaz. vol. 216; p. 223.
- Schlangen, Nicholas. (See Schlangen, Simon and N.)
- Schlangen, Simon and N., Chicago, Ill. Beer-racking apparatus. No. 1,155,008; Sept. 28; Gaz. vol. 218; p. 1022.
- Schlangen, Simon and N., Chicago, Ill. Beer-racking apparatus. No. 1,155,009; Sept. 28; Gaz. vol. 218; p. 1023.
- Schlatter, Gustav. (See Mayer and Schlatter.)
- Schlatter, Gustav, Arbon, Switzerland. Dumping-vehicle. No. 1,123,391; Jan. 5; Gaz. vol. 210; p. 67.
- Schlecht, George, Smithville, Minn. Marketing trees. No. 1,150,708; Aug. 17; Gaz. vol. 217; p. 955.
- Schlegel, Ernest, Cleveland, Ohio. Machine for manufacture of paper boxes. No. 1,163,863; Dec. 14; Gaz. vol. 221; p. 441.
- Schlegelmilch, Arnold, Suhl, Germany. Producing translucent ornaments or designs in pottery. No. 1,158,863; Nov. 2; Gaz. vol. 220; p. 160.
- Schlegelmilch, Frederick II. (See Wendling, John C., assignor.)
- Schleicher, Edward G., Stamford, Conn. Steering and running gear for vehicles. No. 1,125,184; Jan. 19; Gaz. vol. 210; p. 777.
- Schleicher, Edward G., Stamford, Conn. Running-gear for vehicles. No. 1,149,153; Aug. 3; Gaz. vol. 217; p. 234.
- Schleicher, John C., Mount Vernon, N. Y. Combined cushion-spring and shock-absorber. No. 1,136,489; Apr. 20; Gaz. vol. 213; p. 936.
- Schleicher, John C., Mount Vernon, N. Y. Tire-protector. No. 1,141,585; June 1; Gaz. vol. 215; p. 178.
- Schleicher, John C., Mount Vernon, N. Y. Combination amusement and educational building. No. 1,146,454; July 13; Gaz. vol. 216; p. 540.

Alphabetical list of patentees—Continued.

- Schleicher, John W., St. Louis, Mo., and R. Schleicher, assignors to Mengel Box Company, Louisville, Ky. Composition glue. No. 1,162,712; Nov. 30; Gaz. vol. 220; p. 1683.
- Schleicher, Robert. (See Schleicher, John W. and R.)
- Schleicher, Rudolph H., Philadelphia, Pa. Pencil. No. 1,144,069; June 22; Gaz. vol. 215; p. 1143.
- Schleicher, William A., Cleveland, Ohio. Hood-fastener for automobiles. No. 1,159,870; Nov. 9; Gaz. vol. 220; p. 547.
- Schleifer, Carl, assignor to Gütermann & Co., Perosa, Italy. Combining-machine. No. 1,129,737; Feb. 23; Gaz. vol. 211; p. 1197.
- Schleit, Willis A. (See Skinner, Alba A. and F. B., assignors.) (Reissue.)
- Schlemmer, George, New York, N. Y. Hose or like conduit cleaning device. No. 1,165,455; Dec. 28; Gaz. vol. 221; p. 1076.
- Schlenker, Edward W. (See Garretson and Schlenker.)
- Schlenker, Laura L., Evansville, Ind. Gong-piano. No. 1,134,351; Apr. 6; Gaz. vol. 213; p. 98.
- Schlenstedt, Oswig, Duisburg, Germany. Press for making tubes. No. 1,150,394; Aug. 17; Gaz. vol. 217; p. 846.
- Schlereth, William, New Rochelle, N. Y. Sanitary hypodermic heater. No. 1,163,864; Dec. 14; Gaz. vol. 221; p. 442.
- Schlesinger, Jacob, Lansing, Mich. Aerohydroplane. No. 1,150,970; Aug. 24; Gaz. vol. 217; p. 1102.
- Schlesinger, Max, New York, assignor of one-half to J. Feldman, Brooklyn, N. Y. Lock for trunks and similar articles. No. 1,152,916; Sept. 7; Gaz. vol. 218; p. 197.
- Schlesinger, Sigmund, New York, N. Y. Combined watch and umbrella-handle. No. 1,146,351; July 13; Gaz. vol. 216; p. 500.
- Schley, Frederick L. (See Craw and Schley.)
- Schley, George B., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. System of electrical distribution. No. 1,133,187; Mar. 23; Gaz. vol. 212; p. 1305.
- Schlichter, Enos F., Philadelphia, Pa. Silo. No. 1,147,447; July 29; Gaz. vol. 216; p. 906.
- Schlick, Otto. (See Greiner, Friedrich, assignor.)
- Schlick, Otto. (See Greiner, Fritz, assignor.)
- Schliebs, Georg, Cologne, Germany. Method and apparatus for producing sulfuric acid. No. 1,151,294; Aug. 24; Gaz. vol. 217; p. 1212.
- Schliebs, Herman E., South Bend, Ind. Cushion-tire. No. 1,147,977; July 27; Gaz. vol. 216; p. 1118.
- Schlieper, John E. (See Robinson and Schlieper.)
- Schliggemann, Heinrich, Gleiwitz, Germany. Plant for cooling, removing scale from, chalking, and drying wire delivered by finishing-rolls. No. 1,152,848; Sept. 7; Gaz. vol. 218; p. 172.
- Schliker, George J., Illion, N. Y. Metal nurling and ornamenting tool. No. 1,151,829; Aug. 31; Gaz. vol. 217; p. 1443.
- Schloemer, Peter J., and H. E. Krueger, Oshkosh, Wis. Filling and capping machine. No. 1,141,271; June 1; Gaz. vol. 215; p. 64.
- Schloemilch, Wilhelm, and A. Lebl, assignors to Gesellschaft Fuer Drahtlose Telegraphie m. b. H., Berlin, Germany. Means for strengthening weak electrical impulses. No. 1,163,180; Dec. 7; Gaz. vol. 221; p. 156.
- Schloerb, Albert P. (See Pfefferkorn, Schloerb, and Hammer.)
- Schloss, Joseph W., New York, N. Y., assignor to Castlebone Co. Girdle. No. 1,130,202; Mar. 2; Gaz. vol. 212; p. 125.
- Schloss, Joseph W., New York, N. Y., assignor to Castlebone Company. Dispensing-container. No. 1,161,533; Nov. 23; Gaz. vol. 220; p. 1233.
- Schloss, Joseph W. and M. W., New York, N. Y., assignors to Castlebone Company. Dispensing-container. No. 1,154,212; Sept. 21; Gaz. vol. 218; p. 722.
- Schloss, Meyer W. (See Schloss, Joseph and M. W.)
- Schlossberg, Emil, assignor of one-half to The Decker Company, New York, N. Y. Bowling-ball returnway. No. 1,145,803; July 6; Gaz. vol. 216; p. 289.
- Schlossberg, Emil, assignor of one-half to The Decker Company, New York, N. Y. Combined sponge-cup and chalk-holder. No. 1,151,404; Aug. 24; Gaz. vol. 217; p. 1248.
- Schlossberg, Israel, Hamburg, Germany. Producing acid and fireproof bodies. No. 1,126,659; Jan. 26; Gaz. vol. 210; p. 1340.
- Schlothian, James, San Francisco, Cal., and W. F. Schlothian, Ketchikan, Alaska. Cutting means for canning apparatus. No. 1,125,737; Jan. 19; Gaz. vol. 210; p. 975.
- Schlothian, James, San Francisco, Cal., and W. F. Schlothian, Ketchikan, Alaska. Cutting means for canning apparatus. No. 1,152,441; Sept. 7; Gaz. vol. 218; p. 21.
- Schlothian, William F. (See Schlothian, James and W. F.)
- Schlotterbeck, Julius O., Rochester, N. Y., assignor to J. Hungerford Smith Grape Juice Company, Lawton, Mich. Grape-pomace heater. No. 1,134,913; Apr. 6; Gaz. vol. 213; p. 296.
- Schlub, Benjamin, assignor to The Bonnot Company, Canton, Ohio. Cutting-wire. No. 1,159,871; Nov. 9; Gaz. vol. 220; p. 547.
- Schlueter, Charles F., Milwaukee, Wis. Extension-table. No. 1,139,730; May 18; Gaz. vol. 214; p. 780.
- Schlueter, Henry, Scribner, Nebr. Bridle-bit. No. 1,130,638; Mar. 2; Gaz. vol. 212; p. 278.
- Schlueter, Henry W., Oceanpark, Cal. Pile or column construction. No. 1,165,134; Dec. 21; Gaz. vol. 221; p. 926.
- Schlueter, Peter H., Chicago, Ill. Cooking vessel. No. 1,135,210; Apr. 13; Gaz. vol. 213; p. 444.
- Schlueter, Peter H., Chicago, Ill. Cooking vessel. No. 1,136,277; Apr. 20; Gaz. vol. 213; p. 859.
- Schlueter, Peter H., Chicago, Ill. Candy-making machine. No. 1,151,295; Aug. 24; Gaz. vol. 217; p. 1213.
- Schlueter, Peter H., Chicago, Ill. Kettle. No. 1,162,108; Nov. 30; Gaz. vol. 220; p. 1480.
- Schlumberger, Conrad, Paris, France. Determining the nature of the subsoil by the aid of electricity. No. 1,163,468; Dec. 7; Gaz. vol. 221; p. 256.
- Schlumberger, Conrad, Paris, France. Location of ores in the subsoil. No. 1,163,469; Dec. 7; Gaz. vol. 221; p. 257.
- Schlumpf, Edwin, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Turbine. No. 1,144,154; June 22; Gaz. vol. 215; p. 1175.
- Schmachtl, Eduard, Ober-Waltersdorf, Austria-Hungary. Spool-carrier for braiding, lace-making, and like machines. No. 1,149,088; Aug. 3; Gaz. vol. 217; p. 212.
- Schmachtl, Eduard, Ober-Waltersdorf, Austria-Hungary. Bobbin for braiding and bobbin machines. No. 1,149,089; Aug. 3; Gaz. vol. 217; p. 213.
- Schmalz, Adalbert and A., Chicago, Ill. Curtain-pole. No. 1,140,074; May 18; Gaz. vol. 214; p. 903.
- Schmalz, Adalbert and A., Chicago, Ill. Annunciator. No. 1,164,224; Dec. 14; Gaz. vol. 221; p. 564.
- Schmalz, Alban. (See Schmalz, Adalbert and A.)
- Schmedtje, Adolph H., assignor to Sano Manufacturing Co., St. Louis, Mo. Receptacle. No. 1,147,192; July 20; Gaz. vol. 216; p. 815.
- Schmedtje, Adolph H., St. Louis, Mo., assignor, by mesne assignments, to The Liquid Carbonic Company, Chicago, Ill. Bottle-conveyer. No. 1,161,893; Nov. 30; Gaz. vol. 220; p. 1493.
- Schmeiser, Theodore G., Davis, Cal. Earth working and handling machine. No. 1,150,459; Aug. 17; Gaz. vol. 217; p. 868.
- Schmeling, Emil W., Rockford, Ill. Laboratory-table. No. 1,158,305; Oct. 26; Gaz. vol. 219; p. 1161.
- Schmelzer, Anton C., assignor to Schmelzer & Arthur Mfg. Co., Springfield, Mass. Flue-cleaner. No. 1,160,658; Nov. 16; Gaz. vol. 220; p. 878.
- Schmelzer & Arthur Mfg. Co. (See Schmelzer, Anton C., assignor.)
- Schmelzer, Bernard J., Joliet, Ill. Bung. No. 1,157,906; Oct. 26; Gaz. vol. 219; p. 1021.
- Schmelzkopf, Edward C., assignor to Gisholt Machine Company, Madison, Wis. Boring-bar. No. 1,144,795; June 29; Gaz. vol. 215; p. 1423.
- Schmelzle, Ernst, Mitteltal, Germany. Band-saw. No. 1,125,738; Jan. 49; Gaz. vol. 210; p. 976.
- Schmid, Christian, Philadelphia, Pa. Breech mechanism for guns. No. 1,145,036; July 6; Gaz. vol. 216; p. 22.
- Schmid, Frank H., Rocky River, Ohio. Pane-fastening means for window-sashes. No. 1,158,306; Oct. 26; Gaz. vol. 219; p. 1161.
- Schmid, Jacob, Detroit, Mich. Level. No. 1,134,162; Apr. 6; Gaz. vol. 213; p. 28.
- Schmid-Roost, Jakob, Oerlikon, Switzerland. Dust-guard. No. 1,145,516; July 6; Gaz. vol. 216; p. 189.
- Schmid, William. (See Shakespeare and Schmid.)
- Schmidborn, Charles. (See Kubitz and Schmidhorn.)
- Schmidlin, Robert, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Brownish-yellow wool-dyestuffs and making same. No. 1,162,109; Nov. 30; Gaz. vol. 220; p. 1480.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,128,819; Feb. 16; Gaz. vol. 211; p. 842.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,135,727; Apr. 13; Gaz. vol. 213; p. 626.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,138,797; May 11; Gaz. vol. 214; p. 417.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,142,869; June 8; Gaz. vol. 215; p. 487.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,147,818; July 27; Gaz. vol. 216; p. 1061.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,155,514; Oct. 5; Gaz. vol. 219; p. 67.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,155,515; Oct. 5; Gaz. vol. 219; p. 67.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Coupling. No. 1,160,534; Nov. 16; Gaz. vol. 220; p. 832.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Electric coupling. No. 1,166,087; Dec. 28; Gaz. vol. 221; p. 1295.

Alphabetical list of patentees—Continued.

- Schmidt, Albert R., Milwaukee, Wis. Forming knock-out plates. No. 1,128,532; Feb. 16; Gaz. vol. 211; p. 744.
- Schmidt, Albrecht, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Unexplosive preparation. No. 1,136,723; Apr. 20; Gaz. vol. 213; p. 1019.
- Schmidt, Albrecht, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Non-explosive preparation and making same. No. 1,136,724; Apr. 20; Gaz. vol. 213; p. 1019.
- Schmidt, Albrecht, and G. Krönlein, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Indophenolsulfonic acids and making same. No. 1,128,370; Feb. 16; Gaz. vol. 211; p. 686.
- Schmidt, Albrecht, and G. Krönlein, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Sulfur dyestuffs and making same. No. 1,128,371; Feb. 16; Gaz. vol. 211; p. 687.
- Schmidt, Albrecht, and A. Steindorf, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Leuco compounds and making same. No. 1,141,148; June 1; Gaz. vol. 215; p. 20.
- Schmidt, Albrecht, Höchst-on-the-Main, K. Thiess, Sindlingen, and E. Bryk, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuffs and making same. No. 1,128,368; Feb. 16; Gaz. vol. 211; p. 686.
- Schmidt, Albrecht, G. Krönlein, and E. Runne, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Carbazol-sulfonic acids and making same. No. 1,128,369; Feb. 16; Gaz. vol. 211; p. 686.
- Schmidt, Alfred G., Baltimore, Md. Waste-pipe plug. No. 1,136,441; Apr. 20; Gaz. vol. 213; p. 918.
- Schmidt, Alvin A., Chicago, Ill. Composition for making resilient molds. No. 1,132,217; Mar. 16; Gaz. vol. 212; p. 901.
- Schmidt, Annie W., Oakland, Cal. Sound-box. No. 1,137,911; May 4; Gaz. vol. 214; p. 65.
- Schmidt, Annie W., Oakland, Cal. Sound-reproducing machine. No. 1,158,728; Nov. 2; Gaz. vol. 220; p. 111.
- Schmidt, August J., assignor to Diamond Whip Company, Chicago, Ill. Whip. No. 1,151,620; Aug. 31; Gaz. vol. 217; p. 1371.
- Schmidt, August J., assignor to Diamond Whip Company, Chicago, Ill. Whip. No. 1,157,424; Oct. 19; Gaz. vol. 219; p. 791.
- Schmidt, Benjamin F., Exeter, Cal. Current control for motor-vehicles. No. 1,150,545; Aug. 17; Gaz. vol. 217; p. 898.
- Schmidt, Charles G., Okemah, Okla. Holding device for watches. No. 1,130,438; Mar. 2; Gaz. vol. 212; p. 208.
- Schmidt, Charles G., St. Jacob, Ill. Hose-nozzle. No. 1,148,630; Aug. 3; Gaz. vol. 217; p. 53.
- Schmidt, Conrad, Spokane, Wash. Portable electrically-heated radiator. No. 1,141,888; June 1; Gaz. vol. 215; p. 279.
- Schmidt, Ernst G., Dusseldorf, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Deren-dorf, Germany. Device for manipulating gun-triggers. No. 1,147,556; July 20; Gaz. vol. 216; p. 943.
- Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Friction draft-rigging. No. 1,130,439; Mar. 2; Gaz. vol. 212; p. 209.
- Schmidt, Ernest H., assignor to National Malleable Castings Company, Cleveland, Ohio. Coupling shank and yoke connection. No. 1,132,980; Mar. 23; Gaz. vol. 212; p. 1230.
- Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-shank and yoke connection. No. 1,144,384; June 29; Gaz. vol. 215; p. 1283.
- Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Roller side bearing. No. 1,145,851; July 6; Gaz. vol. 216; p. 306.
- Schmidt, Ernst M. C., Tarrytown, N. Y. Egg and cream beater. No. 1,154,940; Sept. 28; Gaz. vol. 218; p. 1000.
- Schmidt, Ferdinand L., New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Envelop-machine. No. 1,152,555; Sept. 7; Gaz. vol. 218; p. 65.
- Schmidt, Florence J. (See Schmidt, William A., assignor.)
- Schmidt, Frank J., Cleveland, Ohio. Automatic gas-valve. No. 1,126,299; Jan. 26; Gaz. vol. 210; p. 1209.
- Schmidt, Frederick, assignor of one-half to A. P. Botscheller, Dalton, Pa. Horseshoe-calk. No. 1,156,713; Oct. 12; Gaz. vol. 219; p. 509.
- Schmidt, Frederick M., Rochester, N. Y. Chute attachment. No. 1,164,124; Dec. 14; Gaz. vol. 221; p. 532.
- Schmidt, Friedrich L., Charlottenburg, Germany, assignor to The Roessler & Hasslacher Chemical Company. Mixture of borates containing active oxygen. No. 1,155,101; Sept. 28; Gaz. vol. 218; p. 1058.
- Schmidt, Friedrich L., Charlottenburg, Germany, assignor to The Roessler & Hasslacher Chemical Company. Bleaching. No. 1,155,102; Sept. 28; Gaz. vol. 218; p. 1058.
- Schmidt, Friedrich L., Charlottenburg, Germany, assignor to The Roessler & Hasslacher Chemical Company. Mixture of borates containing active oxygen. No. 1,155,103; Sept. 28; Gaz. vol. 218; p. 1058.
- Schmidt, Friedrich L., Charlottenburg, Germany, assignor to The Roessler & Hasslacher Chemical Company. Bleaching. No. 1,155,104; Sept. 28; Gaz. vol. 218; p. 1058.
- Schmidt, George, Jr. (See Rosenthal, Max, assignor.)
- Schmidt, Godfrey P. (See Wachtelschneider, Joseph, assignor.)
- Schmidt, Godfrey P., New York, N. Y. Roller-skate. No. 1,134,962; Apr. 6; Gaz. vol. 213; p. 313.
- Schmidt, Gottfried, assignor of one-half to R. B. Barber, Hazleton, Pa. Valve. No. 1,140,619; May 25; Gaz. vol. 214; p. 1128.
- Schmidt, Gustave F., Richmond, Va. Carbureting apparatus. No. 1,137,535; Apr. 27; Gaz. vol. 213; p. 1346.
- Schmidt, Hans, Sörup, Schleswig, assignor to C. W. F. Hansen, Flensburg, Germany. Coupling device. No. 1,165,541; Dec. 28; Gaz. vol. 221; p. 1104.
- Schmidt, Henri, Meudon, France. Manufacture of products having a vegetable base. No. 1,128,628; Feb. 16; Gaz. vol. 211; p. 776.
- Schmidt, Henry, College Point, N. Y. Lock. No. 1,127,291; Feb. 2; Gaz. vol. 211; p. 220.
- Schmidt, Henry F., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Impulse-turbine. No. 1,148,994; Aug. 3; Gaz. vol. 217; p. 180.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to The Westinghouse Machine Company. Marine turbine. No. 1,155,516; Oct. 5; Gaz. vol. 219; p. 68.
- Schmidt, Henry W., Edgewater, N. J. Aeronautical apparatus. No. 1,135,056; Apr. 13; Gaz. vol. 213; p. 393.
- Schmidt, Henry W., Kenosha, Wis. Reel-holding device. No. 1,158,566; Nov. 2; Gaz. vol. 220; p. 56.
- Schmidt, Herman P. (See Utter and Schmidt.)
- Schmidt, Hugo, Charlottenburg, assignor to "Esto" Elastischer Strassenbahn-Oberbau G. m. b. H., Berlin-Wilmersdorf, Germany. Permanent way for tramways in asphalt paving and the like. No. 1,149,167; Aug. 3; Gaz. vol. 217; p. 239.
- Schmidt, John, New York, N. Y. Finger-ring. No. 1,129,738; Feb. 23; Gaz. vol. 211; p. 1197.
- Schmidt, John, Pittsburgh, Pa. Spacing and punching machine. No. 1,145,167; July 6; Gaz. vol. 216; p. 87.
- Schmidt, John, Paducah, Ky. Land-riding device. No. 1,160,456; Nov. 16; Gaz. vol. 220; p. 803.
- Schmidt, John A., assignor of one-half to F. W. Schenck, Marcus, Wash. Trap. No. 1,146,106; July 13; Gaz. vol. 216; p. 415.
- Schmidt, John C., Chicago, Ill. Door-check. No. 1,155,280; Sept. 28; Gaz. vol. 218; p. 1114.
- Schmidt, Josua H., Yonkers, N. Y. Slicing-machine. No. 1,151,405; Aug. 24; Gaz. vol. 217; p. 1248.
- Schmidt, Lawrence S., Coraopolis, assignor of one-half to R. T. McCormick, Irwin, Pa. Welded joint. No. 1,158,307; Oct. 26; Gaz. vol. 219; p. 1162.
- Schmidt, Louis, and S. Brunstien, Lakewood, N. J. Window-sash lift and lock. No. 1,140,770; May 25; Gaz. vol. 214; p. 1178.
- Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,136,371; Apr. 20; Gaz. vol. 213; p. 893.
- Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Cutting mechanism. No. 1,148,337; July 27; Gaz. vol. 216; p. 1247.
- Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Directing and advancing device for paper-handling machines. No. 1,161,346; Nov. 23; Gaz. vol. 220; p. 1168.
- Schmidt, Ludwig, St. Louis, Mo., assignor to E. W. Grove, Sr. Machine for making wired corrugated board. No. 1,159,716; Nov. 9; Gaz. vol. 220; p. 490.
- Schmidt, Otto A., assignor to The Hoffman Manufacturing Company Limited, Chelmsford, England. Machine for grinding balls. No. 1,166,264; Dec. 28; Gaz. vol. 221; p. 1364.
- Schmidt, Otto M. (See Aubry and Schmidt.)
- Schmidt, Paul, Vienna, Austria-Hungary. Tool-grinder. No. 1,130,112; Mar. 2; Gaz. vol. 212; p. 94.
- Schmidt, Peter G., Olympia, Wash. Gas-producer. No. 1,142,633; June 8; Gaz. vol. 215; p. 580.
- Schmidt, Peter G., Olympia, Wash. Apparatus for interiorly cleansing receptacles. No. 1,142,913; June 15; Gaz. vol. 215; p. 716.
- Schmidt, Peter G., Olympia, Wash. Gas-producer. No. 1,142,914; June 15; Gaz. vol. 215; p. 716.
- Schmidt, Peter G., Olympia, Wash. Producing gas. No. 1,164,408; Dec. 14; Gaz. vol. 221; p. 631.
- Schmidt, Reimar, assignor to Double Power Mill Company, Appleton, Wis. Corn-husking machine. No. 1,145,037; July 6; Gaz. vol. 216; p. 22.
- Schmidt, Robert F., Newmarket, assignor to The Office Specialty Manufacturing Company, Limited, Toronto, Ontario, Canada. Follower-supporting cross-wall for file-containers. No. 1,163,373; Dec. 7; Gaz. vol. 221; p. 224.
- Schmidt, Samuel. (See Dennis, Hunter, assignor.)
- Schmidt, Walter A., and G. C. Roberts, assignors to International Precipitation Company, Los Angeles, Cal. Apparatus for separating suspended particles from gases. No. 1,132,124; Mar. 16; Gaz. vol. 212; p. 867.

Alphabetical list of patentees—Continued.

- Schmidt, Walter J., Cleveland, Ohio. Nut-making machine. No. 1,158,864; Nov. 2; Gaz. vol. 220; p. 160.
- Schmidt, Walter W., Fond du Lac, Wis. Locking device. No. 1,149,090; Aug. 3; Gaz. vol. 217; p. 213.
- Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel, Germany. Cooling and condensing apparatus. No. 1,123,392; Jan. 5; Gaz. vol. 210; p. 67.
- Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, assignor to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Arrangement in steam-engines for taking working steam from the engine-cylinders. No. 1,142,370; June 8; Gaz. vol. 215; p. 113.
- Schmidt, Wilhelm, assignor to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Quick-acting steam-generator. No. 1,166,007; Dec. 28; Gaz. vol. 221; p. 1268.
- Schmidt, William A., assignor to F. J. Schmidt, Newark, N. J. Combined post-card, candy-container, and mail-receptacle. No. 1,143,729; June 22; Gaz. vol. 215; p. 1025.
- Schmidt, William F., Portland, Oreg. Wheeled vehicle. No. 1,146,107; July 13; Gaz. vol. 216; p. 415.
- Schmidt, William F., St. Louis, Mo., assignor, by mesne assignments, to Chicago Pneumatic Tool Company. Pneumatic hammer. No. 1,126,096; Jan. 26; Gaz. vol. 210; p. 1137.
- Schmitt, William G., St. Louis, Mo. Balancing device for wheels. No. 1,160,000; Nov. 9; Gaz. vol. 220; p. 592.
- Schmidt, William J., Garner, Iowa. Trench-cutter and edge-trimmer. No. 1,157,809; Oct. 26; Gaz. vol. 219; p. 985.
- Schmidt, William R., *et al.* (See Hall, Elmer E., assignor.)
- Schmidt, Willy, Frankfort-on-the-Main, Germany. Device for relieving the pull on the rope for coupling devices for electric conductors. No. 1,139,138; May 11; Gaz. vol. 214; p. 537.
- Schmidt, Willy, Frankfort-on-the-Main, and P. Müller, Dortmund, assignors to G. Schanzenbach & Co. G. m. b. H., Frankfort-on-the-Main, Germany. Lamp-shade. No. 1,141,361; June 1; Gaz. vol. 215; p. 98.
- Schmidt'sche Heissdampf Gesellschaft m. b. H. (See Frandsen, Niels C., assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Schmidt, Wilhelm, assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Stirling, James H., assignor.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Thomsen, Peter, assignor.)
- Schmied, Walther, Geneva, Switzerland. Internal-combustion engine. No. 1,141,658; June 1; Gaz. vol. 215; p. 203.
- Schmiedeborg, Johannes A. G., assignor to Firm of Otto Urban, Hamburg, Germany. Burglar-alarm. No. 1,123,393; Jan. 5; Gaz. vol. 210; p. 68.
- Schmiedeknecht, Victor E., Chicago, Ill. Carbureter. No. 1,135,211; Apr. 13; Gaz. vol. 213; p. 445.
- Schmit, John P., Lewiston, Mont. Motor-vehicle driving mechanism. No. 1,129,021; Feb. 16; Gaz. vol. 211; p. 915.
- Schmitt, Charles A., Anaconda, Mont. Cutter. No. 1,140,402; May 25; Gaz. vol. 214; p. 1052.
- Schmitt, Edmund, Bridgeport, Conn. Muffler. No. 1,157,256; Oct. 19; Gaz. vol. 219; p. 732.
- Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Mechanism for operating sealing-heads of jar-capping machines. No. 1,129,739; Feb. 23; Gaz. vol. 211; p. 1197.
- Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Jar-cap. No. 1,163,039; Dec. 7; Gaz. vol. 221; p. 106.
- Schmitt, Ella D., Upper Montclair, N. J. Pan and plate lifter. No. 1,137,536; Apr. 27; Gaz. vol. 213; p. 1346.
- Schmitt, Eugene A., Greencastle, Ind., assignor to Cole Brothers Lightning Rod Company, St. Louis, Mo. Lightning-rod coupling. No. 1,163,181; Dec. 7; Gaz. vol. 221; p. 156.
- Schmitt, George, Sr. (See Townsend, Louis, assignor.)
- Schmitt, Henry, Shreveport, La. Internal-combustion engine. No. 1,141,362; June 1; Gaz. vol. 215; p. 98.
- Schmitt, John O., assignor of one-half to A. Treiber, Cleveland, Ohio. Motor-boat carousel. No. 1,124,336; Jan. 12; Gaz. vol. 210; p. 437.
- Schmitt, John W., New York, N. Y. Toy bank. No. 1,147,978; July 27; Gaz. vol. 216; p. 1118.
- Schmitt, Joseph P. (See Reilly, Peter, assignor.)
- Schmitt, Martin J. (See Rodrigues and Schmitt.)
- Schmitt, Mathis, Austin, Minn. Quack-grass digger. No. 1,124,534; Jan. 12; Gaz. vol. 210; p. 510.
- Schmitt, Otto G., Chicago, Ill., assignor to Barnhart Bros. & Spindler, Jersey City, N. J. Type-casting machine. No. 1,160,772; Nov. 16; Gaz. vol. 220; p. 919.
- Schmitt, Otto G., Chicago, Ill., assignor to Barnhart Bros. & Spindler, Jersey City, N. J. Type-casting machine. No. 1,160,773; Nov. 16; Gaz. vol. 220; p. 919.
- Schmitt, Philipp, Port Orchard, Wash. Fender for cultivators. No. 1,154,063; Sept. 21; Gaz. vol. 218; p. 672.
- Schmitt, Wilhelm, Cologne-Klettenberg, Germany. Upper-slide mounting for multiple-spindle lathes. No. 1,151,296; Aug. 24; Gaz. vol. 217; p. 1213.
- Schmitz, Frank C., New York, N. Y. Manufacturing phosphoric acid. No. 1,142,371; June 8; Gaz. vol. 215; p. 488.
- Schmitz, Henry, Wymore, Nebr. Bridle. No. 1,152,056; Aug. 31; Gaz. vol. 217; p. 1521.
- Schmitz, Joseph, Philadelphia, Pa., assignor to Uniform Dyeing Machine Co., Groveville, N. J. Dyeing. No. 1,160,001; Nov. 9; Gaz. vol. 220; p. 592.
- Schmitz, Pamphilus, assignor to The Franciscan Fathers of Arizona, Phoenix, Ariz. Building structure. No. 1,153,714; Sept. 14; Gaz. vol. 218; p. 517.
- Schmitz, Valentine M., New York, N. Y. Paper-weight check-protector. No. 1,163,779; Dec. 14; Gaz. vol. 221; p. 411.
- Schmoliner, Jakob, Chicago, Ill. Mop-wringer. No. 1,162,403; Nov. 30; Gaz. vol. 220; p. 1580.
- Schmucker, Earl T., Hawarden, Iowa. Convertible motor and pump. No. 1,132,393; Mar. 16; Gaz. vol. 212; p. 966.
- Schmueser, Joseph M. (See Hansen and Schmueser.)
- Schmutzler, Karl J. J. (See Le Brocq and Schmutzler.)
- Schnakenberg, August, Vohwinkel, near Düsseldorf, Germany. Press for the manufacture of tubes from molten metal. No. 1,125,185; Jan. 19; Gaz. vol. 210; p. 778.
- Schnebelen, August, Canton, Ohio. Dough-raiser. No. 1,143,787; June 22; Gaz. vol. 215; p. 1044.
- Schneekloth, William, Chicago, Ill. Steerable drive-gearing. No. 1,143,864; June 22; Gaz. vol. 215; p. 1071.
- Schneekloth, William, Chicago, Ill. Steerable drive-gearing. No. 1,160,958; Nov. 16; Gaz. vol. 220; p. 984.
- Schneebeli, Emil, Affoltern-on-the-Albis, Switzerland. Machine for dressing or finishing silk stuffs. No. 1,130,846; Mar. 9; Gaz. vol. 212; p. 384.
- Schneegluth, Wilhelm, assignor to Glasfabrik "De Schie," Schiedam, Netherlands. Bottle-blowing machinery. No. 1,148,338; July 27; Gaz. vol. 216; p. 1248.
- Schneeloch, August, Oneida, N. Y., assignor of one-half to The Oliver Typewriter Company, Chicago, Ill., and one-half to Underwood Typewriter Company, New York, N. Y. Line-spacing mechanism for type-writers. No. 1,163,563; Dec. 7; Gaz. vol. 221; p. 289.
- Schneeloch, August, Oneida, N. Y., assignor of one-half to The Oliver Typewriter Company, Chicago, Ill., and one-half to Underwood Typewriter Company, New York, N. Y. Platen-operating mechanism for type-writers. No. 1,163,564; Dec. 7; Gaz. vol. 221; p. 290.
- Schneible, Carl A. (See Schneible, Frank, assignor.)
- Schneible, Frank, assignor to C. A. Schneible, New York, N. Y. Beer-dispensing apparatus. No. 1,133,405; Mar. 30; Gaz. vol. 212; p. 1417.
- Schneider, Adolf A., assignor to I. M. Lehmann, Dresden, Germany. Chocolate-molding apparatus. No. 1,155,839; Oct. 5; Gaz. vol. 219; p. 180.
- Schneider, Adolph, Grand Rapids, Mich. Belt-hook. No. 1,163,780; Dec. 14; Gaz. vol. 221; p. 412.
- Schneider, Adolph, assignor to Banning & Banning, Chicago, Ill. Bottle-filling machine. No. 1,132,218; Mar. 16; Gaz. vol. 212; p. 901.
- Schneider, Anna W., *et al.*, heirs. (See Mauser, Paul.)
- Schneider, Carl, Plau, Germany. Briquetting-press. No. 1,125,916; Jan. 19; Gaz. vol. 210; p. 1037.
- Schneider, Carl, Plau, Germany. Briquet. No. 1,132,527; Mar. 16; Gaz. vol. 212; p. 1015.
- Schneider, Carl J., New York, N. Y. Fuel-briquet. No. 1,138,016; May 4; Gaz. vol. 214; p. 102.
- Schneider, Charles E. R., New Haven, Conn. Apparatus for showing pictures in relief. No. 1,124,665; Jan. 12; Gaz. vol. 210; p. 558.
- Schneider, Christian. (See Mittasch and Schneider.)
- Schneider, Clara G. (See Schneider, Max and C. G.)
- Schneider, Daniel, Spokane, Wash. Non-refillable bottle. No. 1,149,470; Aug. 10; Gaz. vol. 217; p. 453.
- Schneider, Eberhard, New York, N. Y. Panoramic tilting device. No. 1,150,304; Aug. 17; Gaz. vol. 217; p. 815.
- Schneider, Eberhard, New York, N. Y. Consecutive-view apparatus. No. 1,153,578; Sept. 14; Gaz. vol. 218; p. 470.
- Schneider, Eberhard, New York, N. Y. Registering device for a moving-picture machine. No. 1,156,934; Oct. 19; Gaz. vol. 219; p. 616.
- Schneider, Eberhard, New York, N. Y. Film-feeding mechanism. No. 1,165,629; Dec. 28; Gaz. vol. 221; p. 1136.
- Schneider, Emil, Hamburg, Germany. Centrifugal pump, blower, compressor, and the like. No. 1,126,300; Jan. 26; Gaz. vol. 210; p. 1209.
- Schneider, Eugène, Creuzot, France. Resilient driving-coupling. No. 1,125,739; Jan. 19; Gaz. vol. 210; p. 976.
- Schneider, Eugène, Le Creuzot, France. Submarine mine. No. 1,136,052; Apr. 20; Gaz. vol. 213; p. 779.
- Schneider, Eugène, Le Creuzot, France. Installation permitting of electrically actuating apparatus at a distance from a central station. No. 1,141,363; June 1; Gaz. vol. 215; p. 98.
- Schneider, Eugène, Le Creuzot, France. Automobile torpedo. No. 1,143,232; June 15; Gaz. vol. 215; p. 830.
- Schneider, Eugène, Le Creuzot, France. Device for the injection of water at high pressure into the air-reheaters of torpedo-engines. No. 1,144,335; June 29; Gaz. vol. 215; p. 1283.
- Schneider, Eugène, Le Creuzot, France. Automobile torpedo. No. 1,145,389; July 6; Gaz. vol. 216; p. 144.

Alphabetical list of patentees—Continued.

- Schneider, Eugène, Le Creuzot, France. Metal tire for vehicle-wheels. No. 1,151,905; Aug. 31; Gaz. vol. 217; p. 1469.
- Schneider, Eugène, Le Creuzot, France. Fuse for explosive projectiles. No. 1,151,906; Aug. 31; Gaz. vol. 217; p. 1470.
- Schneider, Eugène, Le Creuzot, France. Percussion-fuse. No. 1,152,917; Sept. 7; Gaz. vol. 218; p. 197.
- Schneider, Eugène, Le Creuzot, France. Sighting apparatus of ordnance. No. 1,155,517; Oct. 5; Gaz. vol. 219; p. 68.
- Schneider, Eugène, Le Creuzot, France. Gun-mounting. No. 1,166,086; Dec. 28; Gaz. vol. 221; p. 1295.
- Schneider, Eugène, Paris, France. Submarine mine. No. 1,153,830; Sept. 14; Gaz. vol. 218; p. 557.
- Schneider, Fred W., Clay Center, Ohio. Oil-vaporizer. No. 1,146,208; July 13; Gaz. vol. 216; p. 452.
- Schneider, George J., assignor to Acme Electric Heater Company, Detroit, Mich. Electric heater. No. 1,127,526; Feb. 9; Gaz. vol. 211; p. 342.
- Schneider, George J., assignor to Acme Electric Heater Company, Detroit, Mich. Stand for sad-irons. No. 1,152,767; Sept. 7; Gaz. vol. 218; p. 141.
- Schneider, Heinrich, Neusalz-on-the-Oder, Germany. Spinning or twisting machine with separately and electrically driven spindles. No. 1,166,008; Dec. 28; Gaz. vol. 221; p. 1268.
- Schneider, Hugo H., Seattle, Wash. Telephone-receiver. No. 1,137,235; Apr. 27; Gaz. vol. 213; p. 1239.
- Schneider, John G., Plainfield, N. J. Door lock or fastener. No. 1,166,009; Dec. 28; Gaz. vol. 221; p. 1268.
- Schneider, Julius, New York, N. Y. Needle-threader. No. 1,144,504; June 29; Gaz. vol. 215; p. 1323.
- Schneider, Louis H., Chestnut Hill, Mass., assignor to Mt. Vernon Co., Kittery, Me. Hat-shield. No. 1,149,471; Aug. 10; Gaz. vol. 217; p. 453.
- Schneider, Maria A., et al., heirs. (See Manser, Paul.)
- Schneider, Max and C. G., Denver, Colo. Sprinkling device. No. 1,144,070; June 22; Gaz. vol. 215; p. 1143.
- Schneider, Michael J. N., Black River Falls, Wis. Metallic roofing. No. 1,162,949; Dec. 7; Gaz. vol. 221; p. 75.
- Schneider, Peter, Aurora, Ind. Curtain-stretcher. No. 1,154,732; Sept. 28; Gaz. vol. 218; p. 929.
- Schneider, Ralph F., New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Manometer. No. 1,134,352; Apr. 6; Gaz. vol. 213; p. 98.
- Schneider, Sidney, Chicago, Ill. Stud-setting tool. No. 1,125,186; Jan. 19; Gaz. vol. 210; p. 778.
- Schnelbach, Harry A., Steubenville, Ohio, assignor, by mesne assignments, to Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass and batch for making the same. No. 1,143,788; June 22; Gaz. vol. 215; p. 1044.
- Schnell, Albert P., Grangeville, Idaho. Granary. No. 1,131,558; Mar. 9; Gaz. vol. 212; p. 628.
- Schnell, Curtis C., Glen Rock, Pa. Support. No. 1,142,205; June 8; Gaz. vol. 215; p. 430.
- Schnell, Joseph, St. Louis, Mo. Fruit-jar. No. 1,164,553; Dec. 14; Gaz. vol. 221; p. 681.
- Schnell, Julius L., Arlington, N. J. Self-filler fountain-pen. No. 1,144,436; June 29; Gaz. vol. 215; p. 1301.
- Schneller, Edward T., Palisades, Colo. Necktie. No. 1,164,756; Dec. 21; Gaz. vol. 221; p. 792.
- Schnellhardt, William F., Seattle, Wash. Game-board. No. 1,158,308; Oct. 26; Gaz. vol. 219; p. 1162.
- Schnellermaschinen-Gesellschaft mit beschränkter Haftung. (See Drewell, Heinrich, assignor.)
- Schnepf, Harry F. (See Zolper, Wilhelm, assignor.)
- Schnerre, Otto B., Galena, Ill. Electric door-lock. No. 1,165,542; Dec. 28; Gaz. vol. 221; p. 1105.
- Schniewind, Elma M., executrix. (See Schniewind, Frederic W. C.)
- Schniewind, Frederic W. C., deceased, Englewood, N. J.; E. M. Schniewind, executrix. Separation of coal. No. 1,152,442; Sept. 7; Gaz. vol. 218; p. 21.
- Schniewind, Frederic W. C., deceased, Englewood, N. J.; E. M. Schniewind, executrix. Purification of coal. No. 1,153,132; Sept. 7; Gaz. vol. 218; p. 288.
- Schnitzer, Carl T., assignor to M. Schnitzer, Cleveland, Ohio. Ball-and-screw elevator and fire-escape. No. 1,161,255; Nov. 23; Gaz. vol. 220; p. 1136.
- Schnitzer, Mary. (See Schnitzer, Carl T., assignor.)
- Schnoebelen, Hubert C., Beresford, S. D. Vulcanizer. No. 1,124,815; Jan. 12; Gaz. vol. 210; p. 611.
- Schnoor, Peter J. A. (See Adams, Charles, assignor.)
- Schnoor, Peter J. A., Holstein, Iowa. Non-refillable bottle. No. 1,137,537; Apr. 27; Gaz. vol. 213; p. 1346.
- Schnoor, Peter J. A., assignor of one-half to C. Adams, Holstein, Iowa. Vehicle-jack. No. 1,134,233; Apr. 6; Gaz. vol. 213; p. 55.
- Schnug, Max, Bonduel, Wis. Limb-setting device. No. 1,148,995; Aug. 3; Gaz. vol. 217; p. 180.
- Schnug, Max, Bonduel, Wis. Limb-setting table. No. 1,148,996; Aug. 3; Gaz. vol. 217; p. 181.
- Schnur, William V., Glencoe, assignor to P. Becker & Company, Chicago, Ill. Wardrobe-trunk. No. 1,162,258; Nov. 30; Gaz. vol. 220; p. 1532.
- Schock, Clarence, Mount Joy, Pa. Food-chopper. No. 1,150,024; Mar. 2; Gaz. vol. 212; p. 64.
- Schock, Clarence, Mount Joy, Pa. Food-chopper. No. 1,130,025; Mar. 2; Gaz. vol. 212; p. 64.
- Schock, Gustav and R. C., New York, N. Y. Package-washing machine. No. 1,139,377; May 11; Gaz. vol. 214; p. 619.
- Schock, Gustav and R. C., New York, N. Y. Package-shifting mechanism. No. 1,151,969; Aug. 31; Gaz. vol. 217; p. 1490.
- Schock, Robert C. (See Schock, Gustav and R. C.)
- Schock, Thomas, Montello, Nev. Horse-collar. No. 1,157,425; Oct. 19; Gaz. vol. 219; p. 792.
- Schoder, Emil, and A. Sembach, assignors to H. Aron Elektrizitätszählerfabrik G. m. b. H., Charlottenburg, Germany. Controlling and registering till. No. 1,164,225; Dec. 14; Gaz. vol. 221; p. 565.
- Schoedinger, Franklin O. (See Bartholomew and Percy, assignors.)
- Schoedinger, Franklin O., et al. (See Cannon, Frederick W., assignor.)
- Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Locking device for circuit-controlling means. No. 1,142,732; June 8; Gaz. vol. 215; p. 611.
- Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder-lock. No. 1,163,470; Dec. 7; Gaz. vol. 221; p. 257.
- Schoellkopf, William, assignor to The Cleveland Auto Radiator Company, Cleveland, Ohio. Machine for rolling plates for automobile-radiators. No. 1,163,865; Dec. 14; Gaz. vol. 221; p. 442.
- Schoen, Abraham, assignor to Superior Brass and Fixture Co., Chicago, Ill. Lighting-fixture. No. 1,127,527; Feb. 9; Gaz. vol. 211; p. 342.
- Schoen, August C., Philadelphia, Pa. Box-lid. No. 1,135,728; Apr. 13; Gaz. vol. 213; p. 627.
- Schoen, Charles T., Media, Pa. Spool for music-rolls. No. 1,143,143; June 15; Gaz. vol. 215; p. 796.
- Schoenberg, Ralph A., Branchport, N. J., assignor to I. S. Rosenheim, New York, N. Y. Means for operating switch mechanisms. No. 1,149,789; Aug. 10; Gaz. vol. 217; p. 568.
- Schoenfeld, Joseph. (See Gill and Schoenfeld.)
- Schoenfeld, Morris, Rorschach, Switzerland. Embroidery-machine. No. 1,126,879; Feb. 2; Gaz. vol. 211; p. 76.
- Schoenfeld, Morris, Rorschach, Switzerland. Shuttle mechanism for embroidering-machines. No. 1,126,880; Feb. 2; Gaz. vol. 211; p. 76.
- Schoenfeld, Morris, Rorschach, Switzerland. Parallel-motion device for embroidering-machines. No. 1,126,881; Feb. 2; Gaz. vol. 211; p. 77.
- Schoenfeld, Morris, Rorschach, Switzerland. Embroidery-frame. No. 1,129,607; Feb. 23; Gaz. vol. 211; p. 1156.
- Schoenfeld, Morris, Rorschach, Switzerland. Embroidering-machine. No. 1,139,586; May 18; Gaz. vol. 214; p. 728.
- Schoenfeld, Morris, Rorschach, Switzerland. Circular-shuttle embroidery-machine. No. 1,142,534; June 8; Gaz. vol. 215; p. 546.
- Schoenfeld, Morris, and B. Wetzstein, Rorschach, Switzerland. Embroidering-machine. No. 1,124,176; Jan. 5; Gaz. vol. 210; p. 332.
- Schoenfuss, Frank H. (See Ringland and Schoenfuss.)
- Schoenheit, August W., Pittsburgh, Pa. Closure for receptacles. No. 1,157,591; Oct. 19; Gaz. vol. 219; p. 845.
- Schoenheit, Ernest, Pittsburgh, Pa. Sash-holder. No. 1,147,270; July 20; Gaz. vol. 216; p. 843.
- Schoenheit, Ernest, Ambridge, Pa. Sash-balance. No. 1,147,271; July 20; Gaz. vol. 216; p. 843.
- Schoenherr, Frank C., assignor of one-half to J. P. C. Pacus, Milwaukee, Wis. Window-sash lock. No. 1,156,632; Oct. 12; Gaz. vol. 219; p. 481.
- Schoening, John, Kenosha, Wis. Protector. No. 1,137,428; Apr. 27; Gaz. vol. 213; p. 1310.
- Schoenky, August R. (See Corcoran, Dobyne and Schoenky.)
- Schoenky, August R., Somerville, assignor to The Reece Shoe Machinery Company, Boston, Mass. Sewing-machine. No. 1,124,535; Jan. 12; Gaz. vol. 210; p. 510.
- Schoenky, August R., Somerville, assignor to The Reece Shoe Machinery Company, Boston, Mass. Sewing-machine. No. 1,137,356; Apr. 27; Gaz. vol. 213; p. 1284.
- Schoenky, Otto B. (See Small and Schoenky.)
- Schoenmehl, Charles B., Waterbury, Conn. Battery electrode. No. 1,140,403; May 25; Gaz. vol. 214; p. 1052.
- Schoenner, Georg, Nuremberg, Germany. Drawing-pen. No. 1,143,730; June 22; Gaz. vol. 215; p. 1025.
- Schoenthaler, George R., Chicago, Ill. Support and tie for concrete-reinforcing bars. No. 1,124,536; Jan. 12; Gaz. vol. 210; p. 511.
- Schoenthaler, George R., Chicago, Ill. Support and tie for concrete-reinforcing rods. No. 1,124,537; Jan. 12; Gaz. vol. 210; p. 511.
- Schoenthaler, George R., Chicago, Ill. Support and tie for concrete-reinforcing bars. No. 1,132,735; Mar. 23; Gaz. vol. 212; p. 1139.
- Schoenthaler, George R., Chicago, Ill. Support and tie for concrete-reinforcing bars. No. 1,143,323; June 15; Gaz. vol. 215; p. 862.
- Schoettle, Edwin J., Philadelphia, Pa. Platform for shirt-boxes, &c. No. 1,155,281; Sept. 28; Gaz. vol. 218; p. 1115.

Alphabetical list of patentees—Continued.

- Schoff, Henry W., D. W. Young, Jr., and A. C. Dobrick, assignors to The Imperial Brass Manufacturing Company, Chicago, Ill. Self-heating flat-iron. No. 1,146,025; July 13; Gaz. vol. 216; p. 388.
- Schofield, Arthur F., Stafford Springs, Conn. Lug-strap holder. No. 1,148,541; Aug. 3; Gaz. vol. 217; p. 20.
- Schofield, Eugene H., deceased, Atlanta, Ga.; R. H. Schofield, administrator. Cotton-picking machine. No. 1,130,847; Mar. 9; Gaz. vol. 212; p. 385.
- Schofield, Frederick C., Richmond, Va., assignor to The Towles-Schofield Company, Incorporated, Alexandria, Va.; F. S. Swindell, Washington, D. C., trustee. Flash-light apparatus. No. 1,124,177; Jan. 5; Gaz. vol. 210; p. 333.
- Schofield, Frederick C., Richmond, Va., assignor to F. S. Swindell, Washington, D. C., trustee. Cartridge for flash-light apparatus and lamps. No. 1,166,265; Dec. 28; Gaz. vol. 221; p. 1364.
- Schofield, George L., *et al.* (See Sherman, Louie A., assignor.)
- Schofield, Mason & Co. (See Binz, Albert W., assignor.)
- Schofield, Ray H., administrator. (See Schofield, Eugene H.)
- Schol, Carl H., Allendorf, Germany. Converting molten slag into a highly-porous mass. No. 1,163,605; Dec. 7; Gaz. vol. 221; p. 305.
- Schold, Helgie O., and A. A. Swenson, Muskegon, Mich. Extension-table. No. 1,145,802; July 6; Gaz. vol. 216; p. 289.
- Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Power-transmission mechanism. No. 1,143,324; June 15; Gaz. vol. 215; p. 862.
- Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Windmill. No. 1,155,518; Oct. 5; Gaz. vol. 219; p. 69.
- Scholes, John, *et al.* (See Wolstenholme, Charles, assignor.)
- Schofield, Arthur J., Ridge Bank, Todmorden, and J. R. Redman, Sandbed, Hebden Bridge, England. Lock for vehicle-doors. No. 1,154,439; Sept. 21; Gaz. vol. 218; p. 801.
- Scholl, George P., New York, N. Y., assignor to Westinghouse Lamp Company. Manufacturing mixed hydrogen and nitrogen. No. 1,123,394; Jan. 5; Gaz. vol. 210; p. 68.
- Scholl Manufacturing Company, The. (See Roehn, Frederick, assignor.)
- Scholl, Max, Houston, Tex. Automatic circuit maker and breaker. No. 1,158,729; Nov. 2; Gaz. vol. 220; p. 111.
- Scholl, William M., Chicago, Ill. Instep-arch support. No. 1,136,442; Apr. 20; Gaz. vol. 213; p. 919.
- Scholl, William M., Chicago, Ill. Instep-arch support. No. 1,136,443; Apr. 20; Gaz. vol. 213; p. 919.
- Scholl, William M., Chicago, Ill. Instep-arch support. No. 1,142,848; June 15; Gaz. vol. 215; p. 692.
- Scholl, William M., Chicago, Ill. Instep-arch supporter. No. 1,142,849; June 15; Gaz. vol. 215; p. 692.
- Scholl, William M., Chicago, Ill. Instep-arch support. No. 1,142,850; June 15; Gaz. vol. 215; p. 693.
- Scholl, William M., Chicago, Ill. Instep-arch support. No. 1,146,597; July 13; Gaz. vol. 216; p. 589.
- Scholl, William M., Chicago, Ill. Arch-support. No. 1,152,556; Sept. 7; Gaz. vol. 218; p. 65.
- Scholl, William M., Chicago, Ill. Stature-increaser. No. 1,152,557; Sept. 7; Gaz. vol. 218; p. 66.
- Scholoske, William G., Baltimore, Md. Automatic train-stop. No. 1,135,467; Apr. 13; Gaz. vol. 213; p. 533.
- Scholpp, Ernest W., *et al.* (See Nunn, Orion W., assignor.)
- Scholpp, Fred K., *et al.* (See Nunn, Orion W., assignor.)
- Scholtz, Theodore, New York, N. Y. Spring-wheel. No. 1,158,567; Nov. 2; Gaz. vol. 220; p. 56.
- Scholz, Louis A., Roanoke, Va. Fruit-jar. No. 1,140,486; May 25; Gaz. vol. 214; p. 1082.
- Scholz, Walter T. (See Shumway and Scholz.)
- Schomburg, Theodore A., Denver, Colo. Transmission-gearing. No. 1,127,528; Feb. 9; Gaz. vol. 211; p. 343.
- Schön, Ludwig, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Connection for continuous-current generators. No. 1,147,123; July 20; Gaz. vol. 216; p. 791.
- Schönemann, Friedrich, Friedrich-Wilhelmshütte-on-the Sieg, Germany. Hardening apparatus. No. 1,137,293; Apr. 27; Gaz. vol. 213; p. 1261.
- Schönleber, Max. (See Reinecker and Schönleber.)
- Schönmeier, George, Cleveland, Ohio. Flushing-tank. No. 1,134,234; Apr. 6; Gaz. vol. 213; p. 55.
- Schoof, William, Jr., Milwaukee, Wis. Carbureter. No. 1,135,729; Apr. 13; Gaz. vol. 213; p. 627.
- Schooler, Arthur L., Cincinnati, Iowa. Egg-tester. No. 1,148,997; Aug. 3; Gaz. vol. 217; p. 181.
- Schooley, Walter G., Sioux Falls, S. D. Rake-cleaner. No. 1,123,395; Jan. 5; Gaz. vol. 210; p. 68.
- Schoonmaker, Elmer, New York, N. Y. Mechanical movement. No. 1,123,396; Jan. 5; Gaz. vol. 210; p. 68.
- Schoonmaker, Frederick W., Jr., Montclair, N. J., assignor to Schoonmaker Laboratories, Inc., New York, N. Y. Nasal device. No. 1,143,731; June 22; Gaz. vol. 215; p. 1025.
- Schoonmaker Laboratories. (See Schoonmaker, Frederick W., Jr., assignor.)
- Schoop, Max U., Höngg, near Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Metallic coating and making same. No. 1,128,058; Feb. 9; Gaz. vol. 211; p. 529.
- Schoop, Max U., Höngg, near Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Plating or coating with metallic coatings. No. 1,128,059; Feb. 9; Gaz. vol. 211; p. 530.
- Schoop, Max U., Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Apparatus for spraying molten metal and other fusible substances. No. 1,133,507; Mar. 30; Gaz. vol. 212; p. 1453.
- Schoop, Max U., Zurich, Switzerland, assignor, by mesne assignments, to Metals Coating Company of America, Boston, Mass. Spraying fusible substances. No. 1,133,508; Mar. 30; Gaz. vol. 212; p. 1453.
- Schopbach, Charles H., Aurora, Ill. Corset. No. 1,133,824; Mar. 30; Gaz. vol. 212; p. 1569.
- Schoren, Matthias, The Dalles, Ore. Weed-cutting machine. No. 1,160,774; Nov. 16; Gaz. vol. 220; p. 919.
- Schorik, Frank, and F. F. Marshall, Chicago, Ill. Liquid-measuring device. No. 1,128,060; Feb. 9; Gaz. vol. 211; p. 530.
- Schorno, Ferdinand. (See Millman, Curtis F., assignor.)
- Schorno, Ferdinand, Passaic, N. J. Chirographic reproducing-machine. No. 1,159,280; Nov. 2; Gaz. vol. 220; p. 302.
- Schossow, Frederick A., Detroit, Mich. Flush-valve. No. 1,148,542; Aug. 3; Gaz. vol. 217; p. 20.
- Schott & Gen. (See Schott, Otto, assignor.)
- Schott, Otto, assignor to Firm of Schott and Gen., Jena, Germany. Composition for making glass. No. 1,130,767; Mar. 9; Gaz. vol. 212; p. 357.
- Schott, Otto, assignor to Schott & Gen., Jena, Germany. Glass. No. 1,143,732; June 22; Gaz. vol. 215; p. 1025.
- Schou, Carl, Holte, Denmark. Telegraphic transmission. No. 1,150,395; Aug. 17; Gaz. vol. 217; p. 846.
- Schou, Carl, Holte, Denmark. Transmitter for wireless telegraphy. No. 1,158,309; Oct. 26; Gaz. vol. 219; p. 1162.
- Schowalter, Edward J. (See Flegel, Harrison D., assignor.)
- Schowalter, Edward J., *et al.* (See Rasmussen, Martin, assignor.)
- Schraag, Charles H., assignor to Joseph Knittel Show Case Company, Quincy, Ill. Show-case. No. 1,158,568; Nov. 2; Gaz. vol. 220; p. 56.
- Schrader, Carl, Halensee, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. High-tension transformer. No. 1,154,132; Sept. 21; Gaz. vol. 218; p. 695.
- Schrader, Thomas O., Allentown, assignor to The Dent Hardware Company, Fullerton, Pa. Latch-fastener for doors. No. 1,128,727; Feb. 16; Gaz. vol. 211; p. 809.
- Schrader, Thomas O., Allentown, assignor to The Dent Hardware Company, Fullerton, Pa. Toy cap-pistol. No. 1,141,904; June 1; Gaz. vol. 215; p. 287.
- Schraepfer, Curt, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Storing apparatus for exhaust-steam heat. No. 1,128,372; Feb. 16; Gaz. vol. 211; p. 687.
- Schrafft, William E., Somerville, F. W. Blake, Medford, and G. A. Lorentzen, East Boston, assignors to W. F. Schrafft & Sons Corporation, Boston, Mass. Candy-making apparatus. No. 1,123,934; Jan. 5; Gaz. vol. 210; p. 250.
- Schrage, Herman F., Palatine, Ill. Folding car-step. No. 1,135,141; Apr. 13; Gaz. vol. 213; p. 422.
- Schrage, Hilde K., Vesterås, Sweden, assignor, by mesne assignments, to General Electric Company, Commutator-motor. (Reissue.) No. 14,031; Dec. 14; Gaz. vol. 221; p. 703.
- Schrage, Louis F., Palatine, Ill. Hat-fastener. No. 1,126,882; Feb. 2; Gaz. vol. 211; p. 77.
- Schram, Adolph W., Oshkosh, Wis. Spring-rocker. No. 1,150,546; Aug. 17; Gaz. vol. 217; p. 898.
- Schram Bros. Company. (See Wiedenbaum, William F., assignor.)
- Schram, Louis, *et al.* (See Isaac, Theodor, assignor.)
- Schramm, Adolph W., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Instrument-table. No. 1,143,443; June 15; Gaz. vol. 215; p. 904.
- Schramm, Adolph W., Riverton, N. J., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Valve. No. 1,163,471; Dec. 7; Gaz. vol. 221; p. 257.
- Schramm, Frederick C., New Orleans, La. Fishing-reel. No. 1,145,038; July 6; Gaz. vol. 216; p. 23.
- Schramm, Frederick C., assignor of three-fourths to A. J. Claverie and one-fourth to C. A. Villars, New Orleans, La. Acetylene-gas generator. No. 1,142,206; June 8; Gaz. vol. 215; p. 430.
- Schramm, Henry C., Baltimore, Md. Stair-carpet fastener. No. 1,137,670; Apr. 27; Gaz. vol. 213; p. 1390.
- Schramm, Louis, Jr., Armiger, Md. Device for attracting submarines and the like. No. 1,143,233; June 15; Gaz. vol. 215; p. 831.
- Schramm, Oscar A., Delphos, Ohio. Brooder. No. 1,138,798; May 11; Gaz. vol. 214; p. 417.

- Schramm, William, assignor to Whitney Manufacturing Company, Hartford, Conn. Calipers. No. 1,145,852; July 6; Gaz. vol. 216; p. 307.
- Schratt, Leonhard, Cincinnati, Ohio. Making fluid for coloring stone. No. 1,158,730; Nov. 2; Gaz. vol. 220; p. 112.
- Schreck, Adolph, Phoenix, Ariz. Gopher-trap. No. 1,135,626; Apr. 13; Gaz. vol. 213; p. 590.
- Schreck, Elmer L. (See Sherman, Henry W., assignor.)
- Schreiber, Benjamin F., Williamsport, Pa. Game. No. 1,161,347; Nov. 23; Gaz. vol. 220; p. 1168.
- Schreiber, Charles F. (See Greiff and Schreiber.)
- Schreiber, Charles H., Jr., Chicago, Ill. Differential car-wheel. No. 1,163,781; Dec. 14; Gaz. vol. 221; p. 412.
- Schreiber, Edwin W. (See Klemm and Schreiber.)
- Schreiber, Howard F., Northampton, Pa. Hoof-steadying device. No. 1,137,090; Apr. 27; Gaz. vol. 213; p. 1186.
- Schreiber, John A., Bridgeport, Conn. Bread-molding machine. No. 1,156,185; Oct. 12; Gaz. vol. 219; p. 324.
- Schreiber, Julius, Lincoln, Ill. Life-preserver. No. 1,150,460; Aug. 17; Gaz. vol. 217; p. 868.
- Schreiber, Norbert, assignor to one-half to R. Rosenthal, Lincoln, Ill. Boiler-skimmer. No. 1,152,918; Sept. 7; Gaz. vol. 218; p. 197.
- Schreiber, Norbert, and R. Rosenthal, Lincoln, Ill. Boiler-skimmer. No. 1,165,717; Dec. 28; Gaz. vol. 221; p. 1168.
- Schreiber, Theodore H., Baltimore, Md. Railway block system. No. 1,126,576; Jan. 26; Gaz. vol. 210; p. 1311.
- Schreidt, Frank, Mansfield, Ohio. Valve. No. 1,165,026; Dec. 21; Gaz. vol. 221; p. 886.
- Schreiner, Albert, Denver, Colo. Round for ladders. No. 1,162,950; Dec. 7; Gaz. vol. 221; p. 75.
- Schreiner, Michael, Brooklyn, N. Y. Toilet-rack. No. 1,129,363; Feb. 23; Gaz. vol. 211; p. 1069.
- Schreiner, Warren J., Middletown, Pa. Shipping-crate. No. 1,155,105; Sept. 28; Gaz. vol. 218; p. 1058.
- Schrek, Herman, Brooklyn, N. Y. Combined carriage and suitcase. No. 1,131,559; Mar. 9; Gaz. vol. 212; p. 629.
- Schremp, William R., New York, assignor to Union Mills, Inc., Hudson, N. Y. Undergarment. No. 1,143,444; June 15; Gaz. vol. 215; p. 905.
- Schrempf, Karl, Karlsruhe, Germany. Softening water. No. 1,139,373; May 11; Gaz. vol. 214; p. 619.
- Schreyer, Frederick, New York, N. Y. Combined monument, mound, and flower-bed. No. 1,130,203; Mar. 2; Gaz. vol. 212; p. 126.
- Schrock, Peter, Pekin, Ill. Washing-machine. No. 1,161,416; Nov. 23; Gaz. vol. 220; p. 1193.
- Schrock, Rufus J., Logan, Pa. Trace-hook. No. 1,157,185; Oct. 19; Gaz. vol. 219; p. 705.
- Schröder, Aage, Charlottenlund, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Apparatus for mixing slurry. No. 1,137,294; Apr. 27; Gaz. vol. 213; p. 1261.
- Schröder, Aage, Bernstorff, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Apparatus for feeding semiliquid materials. No. 1,145,618; July 6; Gaz. vol. 216; p. 223.
- Schroder, Charles H., assignor to Murray Iron Works Company, Burlington, Iowa. Boiler-furnace. No. 1,151,127; Aug. 24; Gaz. vol. 217; p. 1155.
- Schroder, Henry F., Windham, Mont. Straw-stacker. No. 1,144,386; June 29; Gaz. vol. 215; p. 1283.
- Schröder, Josef, Tegel, Germany, assignor to General Electric Company. Flying-machine. No. 1,151,297; Aug. 24; Gaz. vol. 217; p. 1213.
- Schröder, Wilhelm G., Lübeck, Germany. Apparatus for homogenizing milk and other liquids. No. 1,140,289; May 18; Gaz. vol. 214; p. 975.
- Schroeder, Alfred M. (See Bushell, Charles S., assignor.)
- Schroeder, Andrew G., Milton, Wash. Mechanical movement. No. 1,147,896; July 27; Gaz. vol. 216; p. 1089.
- Schroeder, Anthony, Cleveland, Ohio. Removable cover for metal barrels. No. 1,140,535; May 25; Gaz. vol. 214; p. 1101.
- Schroeder, Bernhard. (See Monroe and Schroeder.)
- Schroeder, Charles B., Chicago, Ill. Patch-pocket folder. No. 1,146,820; July 20; Gaz. vol. 216; p. 686.
- Schroeder, Charles F., et al. (See Phelps, Spencer H., assignor.)
- Schroeder, Conrad J., assignor to one-half to J. G. Deery, Kansas City, Mo. Drop-frame cart. No. 1,161,256; Nov. 23; Gaz. vol. 220; p. 1136.
- Schroeder, Edward J., Jersey City, N. J. Shade-holder. No. 1,158,731; Nov. 2; Gaz. vol. 220; p. 112.
- Schroeder, Frank W., Bemidji, Minn. Egg-tester. No. 1,161,793; Nov. 23; Gaz. vol. 220; p. 1322.
- Schroder, Fred E., assignor to The Stewart Manufacturing Company, Chicago, Ill. Reinforced Babbitt journal-bearing. No. 1,164,125; Dec. 14; Gaz. vol. 221; p. 532.
- Schroeder, Frederick J., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Producing brake-beam fulcrums. No. 1,161,737; Nov. 23; Gaz. vol. 220; p. 1302.
- Schroeder, Henry F., Cleveland, Ohio. Stop and waste cock. No. 1,153,645; Sept. 14; Gaz. vol. 218; p. 491.
- Schroeder, Herman G., Lincoln, Nebr. Writing instrument. No. 1,150,068; Aug. 17; Gaz. vol. 217; p. 730.
- Schroeder, Josef, Tegel, Germany, assignor to General Electric Company. Brake for flying-machines. No. 1,156,633; Oct. 12; Gaz. vol. 219; p. 481.
- Schroeder, Louis F. (See Schwartz, Steven, assignor.)
- Schroeder, Otto A., Lodi, Cal. Smoke-consumer. No. 1,124,066; Jan. 5; Gaz. vol. 210; p. 295.
- Schroeder, Otto C. (See Norvell, Eliza G., assignor.)
- Schroeder, Samuel M., and J. E. Norwood, Baltimore, Md. Combined hoe and weeder. No. 1,156,714; Oct. 12; Gaz. vol. 219; p. 509.
- Schroeder, Simon E., Minier, Ill. Gearing. No. 1,153,715; Sept. 14; Gaz. vol. 218; p. 517.
- Schroeder, William A. (See Dowling and Schroeder.)
- Schroeder, William J. H., San Pedro, Cal. Truck. No. 1,124,178; Jan. 5; Gaz. vol. 210; p. 333.
- Schroeter, Albert J., Cleveland, Ohio. Edge binding for linoleum and the like. No. 1,128,061; Feb. 9; Gaz. vol. 211; p. 531.
- Schroeter Brothers Hardware Company. (See McDaniel, Walter O., assignor.)
- Schröter, Fritz, Wilmersdorf, assignor to Elektrizitäts-Aktiengesellschaft Hydrowerk, Charlottenburg, near Berlin, Germany. Device for working weak-current installations. No. 1,141,836; June 1; Gaz. vol. 215; p. 261.
- Schroyer, Charles T., Sioux Falls, S. D. Warmer for steering-wheels. No. 1,129,236; Feb. 23; Gaz. vol. 211; p. 1025.
- Schroyer, Charles T., Sioux Falls, S. D. Antirattler for automobile-doors. No. 1,151,723; Aug. 31; Gaz. vol. 217; p. 1404.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Accordion-plaited vestibule-diaphragm. No. 1,123,397; Jan. 5; Gaz. vol. 210; p. 69.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Car-vestibule diaphragm. No. 1,125,740; Jan. 19; Gaz. vol. 210; p. 976.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Dust-guard for car-windows. No. 1,126,883; Feb. 2; Gaz. vol. 211; p. 78.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Sash-stop or parting-bead. No. 1,126,884; Feb. 2; Gaz. vol. 211; p. 78.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Metallic car-roof. No. 1,128,373; Feb. 16; Gaz. vol. 211; p. 687.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Retaining-batten for insulation, thermal or otherwise. No. 1,137,793; May 4; Gaz. vol. 214; p. 25.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Deck-sash for railway-cars. No. 1,151,724; Aug. 31; Gaz. vol. 217; p. 1405.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Car-diaphragm construction. No. 1,151,725; Aug. 31; Gaz. vol. 217; p. 1405.
- Schroyer, Harry H., Chicago, Ill., assignor to The Acme Supply Company. Weather-strip. No. 1,157,125; Oct. 19; Gaz. vol. 219; p. 684.
- Schubert, Alfred, administrator. (See Schubert, Otto.)
- Schubert, Bruno H. (See Maddy and Schubert.)
- Schubert, Charles W., Cleveland, Ohio. Designing or calculating chart. No. 1,141,837; June 1; Gaz. vol. 215; p. 262.
- Schubert, Franz, Hamburg, Germany. Machine for treating materials with a liquid. No. 1,154,440; Sept. 21; Gaz. vol. 218; p. 801.
- Schubert, Julius J., St. Paul, Minn. Storm-sash fastener. No. 1,136,444; Apr. 20; Gaz. vol. 213; p. 919.
- Schubert, Otto, deceased, Waterloo, Iowa; A. Schubert, administrator. Power-operated plow. No. 1,161,534; Nov. 23; Gaz. vol. 220; p. 1234.
- Schubert & Salzer, Maschinenfabrik, Aktiengesellschaft. (See Michael, Max, assignor.)
- Schubert & Salzer Maschinenfabrik, Aktiengesellschaft. (See Wirth, Friedrich E., assignor.)
- Schuch, August, Brooklyn, N. Y. Clothes-pin. No. 1,150,229; Aug. 17; Gaz. vol. 217; p. 789.
- Schuch, Louis E., Cincinnati, Ohio. Railway-bumping-post brace. No. 1,145,804; July 6; Gaz. vol. 216; p. 290.
- Schuele, George G., Cleveland, Ohio. Cover-releasing device. No. 1,160,204; Nov. 16; Gaz. vol. 220; p. 716.
- Schueller, George R., Kingston-upon-Hull, England. Machine for compressing or molding plastic substances. No. 1,127,925; Feb. 9; Gaz. vol. 211; p. 483.
- Schueller, George R., Kingston-upon-Hull, England. Construction of ships. No. 1,152,229; Aug. 31; Gaz. vol. 217; p. 1580.
- Schueller, George R., Kingston-upon-Hull, England. Press. No. 1,152,919; Sept. 7; Gaz. vol. 218; p. 198.
- Schuermann, Anton C. (See Mueller and Schuermann.)
- Schuessler, Carl F., Montague, Mich. Power attachment for knitting-machines. No. 1,135,212; Apr. 13; Gaz. vol. 213; p. 445.
- Schuett, Albert H., St. Paul, Minn., assignor to Patented Devices Company, Portland, Me. Reinforced concrete construction. No. 1,131,092; Mar. 9; Gaz. vol. 212; p. 468.
- Schuetz, Henry H., Napoleon, Ohio. Eccentric. No. 1,144,731; June 29; Gaz. vol. 215; p. 1401.
- Schuffenhauer, Arthur E., South Chicago, Ill. Clothes-wringer. No. 1,162,404; Nov. 30; Gaz. vol. 220; p. 1581.

Alphabetical list of patentees—Continued.

- Schuh, Frank, Albany, N. Y. Water-closet. No. 1,134,914; Apr. 6; Gaz. vol. 213; p. 296.
- Schub, George H., Earl Park, Ind. Rotary internal-combustion engine. No. 1,163,956; Dec. 14; Gaz. vol. 221; p. 473.
- Schuler, Ernest J. (See Jarvis, Marion, assignor.)
- Schuler, John, Thawville, Ill. Adjustable coupling for traction-engines. No. 1,128,259; Feb. 9; Gaz. vol. 211; p. 599.
- Schulert, Paul A., Detroit, Mich. Bow-support for autotops. No. 1,149,955; Aug. 10; Gaz. vol. 217; p. 629.
- Schullen, Joseph, Delphos, Ohio, assignor to The George W. Grimes Company, Bluffton, Ind. Pumping-jack. No. 1,146,765; July 13; Gaz. vol. 216; p. 646.
- Schull-Gramm, Agnes, *et al.* (See Connor, Patrick F., assignor.)
- Schuller, Frank, Jersey City, N. J. Flat-iron support and safety-guard. No. 1,141,272; June 1; Gaz. vol. 215; p. 65.
- Schüller, Georg M., Kunnersdorf-upon-the-Eigen, Germany. Mixing loose fibrous material. No. 1,134,163; Apr. 6; Gaz. vol. 213; p. 29.
- Schulte, Edward D., N. Troy, N. Y., assignor to W. & L. E. Garkey. Computing-rule. No. 1,145,706; July 6; Gaz. vol. 216; p. 257.
- Schulte, John O., Cincinnati, Ohio. Instantaneous hot-water heater. No. 1,139,379; May 11; Gaz. vol. 214; p. 619.
- Schulte, Louis, Chicago, Ill. Plating-machine. No. 1,165,346; Dec. 21; Gaz. vol. 221; p. 997.
- Schulte, Louis, assignor to Electro Chemical Products Association, Chicago, Ill. Plating-machine. No. 1,154,660; Sept. 28; Gaz. vol. 218; p. 906.
- Schulte, William H., Trenton, N. J. Drinking-fountain. No. 1,155,621; Oct. 5; Gaz. vol. 219; p. 102.
- Schulte, William H., Trenton, N. J. Carbureter. No. 1,159,423; Nov. 9; Gaz. vol. 220; p. 385.
- Schultheis, Andrew, Evergreen, N. Y. Clothes-line support. No. 1,149,863; Aug. 10; Gaz. vol. 217; p. 596.
- Schultheis, Val J. (See Lynch, William T. J., assignor.)
- Schultis, Charles F., assignor to C. Girl, Cleveland, Ohio. Threading device. No. 1,153,345; Sept. 14; Gaz. vol. 218; p. 384.
- Schultz, Bernard A., De Forest, Wis. Stub-cutter attachment for corn-harvesters. No. 1,123,398; Jan. 5; Gaz. vol. 210; p. 69.
- Schultz, Carl R., New York, N. Y. Bottle-cap. No. 1,145,805; July 6; Gaz. vol. 216; p. 290.
- Schultz, Charles A., Jr., and E. L. McManus, Jr., New York, N. Y. Controlling-lever lock. No. 1,160,002; Nov. 9; Gaz. vol. 220; p. 593.
- Schultz, Charles E. (See Savage and Schultz.)
- Schultis, Charles F., assignor to C. Girl, Cleveland, Ohio. Threading device. No. 1,135,057; Apr. 13; Gaz. vol. 213; p. 393.
- Schultz, Charles W., deceased, Detroit, Mich.; R. E. Schultz, administrator. Cushion-spring. No. 1,146,026; July 13; Gaz. vol. 216; p. 388.
- Schultz, Charley, Urbana, Ind. Work-holding clamp. No. 1,161,983; Nov. 30; Gaz. vol. 220; p. 1435.
- Schultz, David, Urbana, Ind. Folding extension-step. No. 1,164,226; Dec. 14; Gaz. vol. 221; p. 595.
- Schultz, David L. (See Evans, William P., assignor.)
- Schultz, Emil H., Everett, Wash. Machine for shaping, rolling, and welding boiler-flue tubes. No. 1,151,621; Aug. 31; Gaz. vol. 217; p. 1371.
- Schultz, Emil W., assignor of one-half to M. H. Gaebler, Watertown, Wis. Extension-table slide. No. 1,165,718; Dec. 28; Gaz. vol. 221; p. 1168.
- Schultz, Ernest P., Hamilton, Ontario, Canada. Lamp-glass extension. No. 1,136,278; Apr. 20; Gaz. vol. 213; p. 859.
- Schultz, F. C. (See Peffers, Andrew R., assignor.)
- Schultz, Fred J., and H. M., North Collins, N. Y. Governor for carburetor-throttles. No. 1,123,935; Jan. 5; Gaz. vol. 210; p. 251.
- Schultz, Frederick A., assignor to Rochester Shellac Company, Rochester, N. Y. Floor-polisher. No. 1,139,809; May 18; Gaz. vol. 214; p. 808.
- Schultz, Frederick W., and F. B. Lawson, San Francisco, Cal. Two-cycle engine. No. 1,148,720; Aug. 3; Gaz. vol. 217; p. 85.
- Schultz, Henry A. (See De Brown and Schultz.)
- Schultz, Henry F., Salt Lake City, Utah. Antirefillable bottle. No. 1,138,419; May 4; Gaz. vol. 214; p. 246.
- Schultz, Herman A., assignor to Hannifin Manufacturing Co., Chicago, Ill. Chuck. No. 1,130,768; Mar. 9; Gaz. vol. 212; p. 358.
- Schultz, Herman E., Jr., and F. Wetteroth, assignors to Zittlosen Manufacturing Company, St. Louis, Mo. Umbrella. No. 1,141,494; June 1; Gaz. vol. 215; p. 146.
- Schultz, Herman M. (See Schultz, Fred J. and H. M.)
- Schultz, Hjalmar R., and P. B. Holt, Manchester, England, assignors to Westinghouse Electric & Manufacturing Company. Electric switch. No. 1,130,204; Mar. 2; Gaz. vol. 212; p. 126.
- Schultz, Karl, Berwyn, Ill. Skate. No. 1,157,049; Oct. 19; Gaz. vol. 219; p. 657.
- Schultz, Lyda M., Dorchester, Wis. Doughnut-drainer. No. 1,154,812; Sept. 28; Gaz. vol. 218; p. 957.
- Schultz, Max M., Detroit, Mich. Refrigerator. No. 1,147,751; July 27; Gaz. vol. 216; p. 1039.
- Schultz, Mayer. (See Rossuck, Louis H., assignor.)
- Schultz, Peter E., Berlin-Grünwald, Germany. Motor-plow. No. 1,151,622; Aug. 31; Gaz. vol. 217; p. 1371.
- Schultz, Richard E., administrator. (See Schultz, Charles W.)
- Schultz, Richard E., Detroit, Mich. Seat-back spring. No. 1,152,230; Aug. 31; Gaz. vol. 217; p. 1581.
- Schultz, William J. (See Moran, James J., assignor.)
- Schultz, William J., *et al.* (See Minkler, Bruce, assignor.)
- Schultze, Edward, Staplehurst, Nebr. Horse-power hoisting device. No. 1,146,598; July 13; Gaz. vol. 216; p. 590.
- Schultze, Gustav F. W., Oakland, Cal. Coin-controlled weighing-scale. No. 1,134,559; Apr. 6; Gaz. vol. 213; p. 174.
- Schultze, Kurt, Pankow, Berlin, Germany. Device for preventing the capsizing of floating crafts, and particularly of flying-boats. No. 1,128,062; Feb. 9; Gaz. vol. 211; p. 531.
- Schulz, Carl J., New York, N. Y. Asphalt-cutter attachment for steam-rollers. No. 1,153,137; Sept. 7; Gaz. vol. 218; p. 272.
- Schulz, Emil, Altdamm, Germany. Safety-cage for water-gages. No. 1,126,301; Jan. 26; Gaz. vol. 210; p. 1210.
- Schulz, Ernst, San Francisco, Cal. Attachment to ruling-machines. No. 1,149,543; Aug. 10; Gaz. vol. 217; p. 479.
- Schulz, Gustov, Jansen, Nebr. Lock. No. 1,164,877; Dec. 21; Gaz. vol. 221; p. 834.
- Schulz, Heinrich, Worms, Germany. Drying of patent-leather. No. 1,137,671; Apr. 27; Gaz. vol. 213; p. 1390.
- Schulz, Otto C., assignor to Bauer & Black, Chicago, Ill. Container for adhesive-bandage rolls. No. 1,134,560; Apr. 6; Gaz. vol. 213; p. 174.
- Schulz, Otto C., assignor to Bauer & Black, Chicago, Ill. Plaster-spool container. No. 1,151,971; Aug. 31; Gaz. vol. 217; p. 1492.
- Schulz, Robert J., Saginaw, Mich. Clothes-pin. No. 1,132,622; Mar. 23; Gaz. vol. 212; p. 1098.
- Schulze, Charles, *et al.* (See Johnson, Lewis, assignor.)
- Schulze, Leon F., and R., Cleveland, Ohio. Metal-working machine. No. 1,124,538; Jan. 12; Gaz. vol. 210; p. 512.
- Schulze, Leon F. and R., Cleveland, Ohio. Metal-working machine. No. 1,157,050; Oct. 19; Gaz. vol. 219; p. 658.
- Schulze, Otto H. (See Day, Edward J., assignor.)
- Schulze, Robert. (See Schulze, Leon F. and R.)
- Schulze, Wilhelm H., Frankfort-on-the-Main, Germany. Apparatus for measuring the area of hides. No. 1,158,310; Oct. 26; Gaz. vol. 219; p. 1163.
- Schumacher, Arthur A., Norwood, Ohio. Device for cleaning pipes of corrosive sediments and the like. No. 1,135,058; Apr. 13; Gaz. vol. 213; p. 393.
- Schumacher, August, Barmen, assignor to A. & E. Henkels, Langerfeld, near Barmen, Germany. Beater for plaiting and braiding machines. No. 1,129,237; Feb. 23; Gaz. vol. 211; p. 1025.
- Schumacher, Charles. (See Davis and Schumacher.)
- Schumacher, Wilhelm, Osnabrück, Germany. Binding means for briquets. No. 1,146,455; July 13; Gaz. vol. 216; p. 540.
- Schumaker, Loraine J. (See Davis and Robbins, assignors.)
- Schumann, Alfred G. (See Wuestner and Schumann.)
- Schumann, Frank. (See Schumann, George, Sr., assignor.)
- Schumann, George, Sr., assignor to himself and F. Schumann, Union Hill, N. J. Pneumatic action for player-pianos. No. 1,136,372; Apr. 20; Gaz. vol. 213; p. 893.
- Schumann, Oscar, assignor to Firm of Hartmann & Braun, A.-G., Frankfort-on-the-Main, Germany. Hot-wire electric measuring instrument. No. 1,129,126; Feb. 23; Gaz. vol. 211; p. 987.
- Schunk, George S., West Allis, Wis. Motor attachment for bicycles. No. 1,158,311; Oct. 26; Gaz. vol. 219; p. 1163.
- Schur, Earnest H., assignor of one-fourth to M. Keller and one-fourth to B. Keller, Hibbing, Minn. Cushion-wheel. No. 1,140,771; May 25; Gaz. vol. 214; p. 1178.
- Schureman, Jacob L., Oak Park, Ill., assignor, by mesne assignments, to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Switch. No. 1,148,256; July 27; Gaz. vol. 216; p. 1218.
- Schürmann, Walter, Düsseldorf, Germany. Flexible shaft. No. 1,137,794; May 4; Gaz. vol. 214; p. 25.
- Schürmann, William A., Philadelphia, Pa. Egg-box. No. 1,156,436; Oct. 12; Gaz. vol. 219; p. 412.
- Schurs, John, Los Angeles, Cal. Oil-burner. No. 1,150,461; Aug. 17; Gaz. vol. 217; p. 868.
- Schurz, Henry M., Chicago, Ill., assignor to Evinrude Motor Company, Milwaukee, Wis. Detachable universal brace. No. 1,150,230; Aug. 17; Gaz. vol. 217; p. 789.
- Schustek, Andrew, Chicago, Ill. Film-feeding mechanism. No. 1,139,731; May 18; Gaz. vol. 214; p. 780.
- Schuster, Carl. (See Bergmann, Christian N., assignor.)

- Schuster, Carl J., Milwaukee, Wis. Disk closure for milk-bottles. No. 1,162,519; Nov. 30; Gaz. vol. 220; p. 1621.
- Schuster, George W. (See Keene and Schuster.)
- Schuster, Karl R., New York, N. Y. Concrete building construction. No. 1,134,164; Apr. 6; Gaz. vol. 213; p. 29.
- Schuster, Max, Vienna, Austria-Hungary. Machine for turning green malt. No. 1,143,918; June 22; Gaz. vol. 215; p. 1089.
- Schuster, Otto P. (See Farnsworth and Schuster.)
- Schuster, Robert. (See Zoller and Schuster.)
- Schut, John, Chicago, Ill. Pocket coin-receptacle. No. 1,159,535; Nov. 9; Gaz. vol. 220; p. 424.
- Schütte, Bernhard, Hasbergen, Germany. Ship-shackle. No. 1,158,392; Oct. 26; Gaz. vol. 219; p. 1191.
- Schutte, Charles F., Utica, N. Y. Paper-cutting mechanism. No. 1,145,039; July 6; Gaz. vol. 216; p. 23.
- Schutte Electric Company. (See Schütte, Hermann, assignor.)
- Schütte, Hermann, assignor to Schutte Electric Company, Pittsburgh, Pa. Current-collector for electric railways. No. 1,159,536; Nov. 9; Gaz. vol. 220; p. 424.
- Schutte and Koerting Company. (See Fischer, Adalbert W., assignor.)
- Schutte & Koerting Company. (See Koerting, Ernst, assignor.)
- Schutte, Wilbur, Chicago, Ill. Rotary valve for internal-combustion engines. No. 1,151,499; Aug. 24; Gaz. vol. 217; p. 1281.
- Schutte, Wilbur, Chicago, Ill. Rotary valve. No. 1,160,330; Nov. 16; Gaz. vol. 220; p. 759.
- Schütz, Adolf F. (See Schütz, Gustav A. and A. F.)
- Schütz, Conrad, Philadelphia, Pa. Car-truck. No. 1,128,533; Feb. 16; Gaz. vol. 211; p. 744.
- Schütz, Conrad, Philadelphia, Pa. Portable water-heater. No. 1,128,534; Feb. 16; Gaz. vol. 211; p. 744.
- Schütz, Gustav A. and A. F., Wurzen, Germany. Filtering device. No. 1,141,213; June 1; Gaz. vol. 215; p. 44.
- Schutz, Joseph M., Chicago, Ill., assignor, by mesne assignments, to Ped-O-Graph Company. Printing-machine. No. 1,132,623; Mar. 23; Gaz. vol. 212; p. 1098.
- Schutz, Joseph M., assignor to C. H. Babb, Chicago, Ill. Duplicate printing-machine. No. 1,132,624; Mar. 23; Gaz. vol. 212; p. 1099.
- Schutz, Otto, assignor to Badische Company, New York, N. Y. Apparatus for mixing colors. No. 1,133,065; Mar. 23; Gaz. vol. 212; p. 1261.
- Schutz, Walter S., trustee. (See Ballou, Holden P., assignor.)
- Schutze, Frederick, London, England. Folding box and show-card. No. 1,129,608; Feb. 23; Gaz. vol. 211; p. 1157.
- Schütze, Martin, Chicago, Ill. Flying-machine. No. 1,163,694; Dec. 14; Gaz. vol. 221; p. 381.
- Schutzmann, Willie A., New Iberia, La. Electric lock. No. 1,124,666; Jan. 12; Gaz. vol. 210; p. 559.
- Schuyler, Daniel. (See Laughlin and Schuyler.)
- Schuyler, Earle S., Morenci, Ariz. Cigarette-paper holder. No. 1,127,292; Feb. 2; Gaz. vol. 211; p. 221.
- Schuyler, Harry J., Louisville, Ky. Stove. No. 1,137,538; Apr. 27; Gaz. vol. 213; p. 1346.
- Schverma, Bohumil, Two Rivers, Wis. Egg-carrier. No. 1,140,005; May 18; Gaz. vol. 214; p. 878.
- Schwab, Charles F., Eugene, Oreg. Nut-lock. No. 1,138,898; May 11; Gaz. vol. 214; p. 451.
- Schwab, Frank S., Iowa City, Iowa. Hammer. No. 1,164,409; Dec. 14; Gaz. vol. 221; p. 631.
- Schwab, Isaac M., Savannah, Ga. Eyeglass-guard. No. 1,141,011; May 25; Gaz. vol. 214; p. 1264.
- Schwab, Jacob, Jr. (See Lavinger and Schwab.)
- Schwab, William. (See Ferriss, Edward, assignor.)
- Schwab, William R., assignor to The Cameragraph Company, Kansas City, Mo. Photographic material. No. 1,141,012; May 25; Gaz. vol. 214; p. 1264.
- Schwabe, Georg, Bielefeld, Austria-Hungary. Picking device for power-looms. No. 1,147,124; July 20; Gaz. vol. 216; p. 791.
- Schwabek, George G., Baltimore, Md., assignor of one-third to W. H. Zeigler, New Freedom, Pa. Collapsible life-boat. No. 1,142,986; June 15; Gaz. vol. 215; p. 742.
- Schwahn, Gustave, Belleville, Ill. Producing aluminum oxid from sulfate of alumina. No. 1,132,736; Mar. 23; Gaz. vol. 212; p. 1139.
- Schwahn, Gustave, Belleville, Ill. Production of aluminum oxid. No. 1,132,737; Mar. 23; Gaz. vol. 212; p. 1140.
- Schwahn, Gustave, St. Louis, Mo. Retort and furnace. No. 1,132,738; Mar. 23; Gaz. vol. 212; p. 1140.
- Schwalbach, Theodor, Milwaukee, Wis. Clothes-line reel. No. 1,128,063; Feb. 9; Gaz. vol. 211; p. 531.
- Schwander, Jacob N., Cincinnati, Ohio. Seam. No. 1,144,947; June 29; Gaz. vol. 215; p. 1474.
- Schwanhauser, Frederick, Jersey City, N. J. View-changing device. No. 1,151,221; Aug. 24; Gaz. vol. 217; p. 1189.
- Schwartz, Carl, assignor of one-half to M. J. Weed, Orwell, N. Y. Grinder. No. 1,159,108; Nov. 2; Gaz. vol. 220; p. 241.
- Schwartz, Chester R., et al. (See Degenhardt, John J., assignor.)
- Schwartz, Edward, assignor to Pelouze Manufacturing Company, Chicago, Ill. Quick-break electric switch. No. 1,149,409; Aug. 10; Gaz. vol. 217; p. 431.
- Schwartz, Henry J., assignor of one-half to W. T. Schwartz, Plainville, Ill. Whipping device. No. 1,159,805; Nov. 9; Gaz. vol. 220; p. 523.
- Schwartz, Herman M., assignor to F. B. Look, Northampton, Mass., G. H. Burr, New York, N. Y., and E. Macleod, Westwood, Mass., trustees. Brush-machine. No. 1,125,187; Jan. 19; Gaz. vol. 210; p. 778.
- Schwartz, Herman M., assignor to F. B. Look, Northampton, Mass., G. H. Burr, New York, N. Y., and E. Macleod, Westwood, Mass., trustees. Brush-cleaning machine. No. 1,125,188; Jan. 19; Gaz. vol. 210; p. 779.
- Schwartz, Herman M., assignor to F. B. Look, Northampton, Mass., G. H. Burr, New York, N. Y., and E. Macleod, Westwood, Mass., trustees. Brush-making machine. No. 1,125,189; Jan. 19; Gaz. vol. 210; p. 779.
- Schwartz, Isidore, New York, N. Y. Garment. No. 1,158,312; Oct. 26; Gaz. vol. 219; p. 1163.
- Schwartz, Johan A., representative. (See Eldjeland, Terje A.)
- Schwartz, Karl, Syracuse, N. Y. Naval apparatus. No. 1,166,404; Dec. 28; Gaz. vol. 221; p. 1413.
- Schwartz, Ludwig H. A., Brookline, Mass. Automatic web-handling apparatus. No. 1,163,565; Dec. 7; Gaz. vol. 221; p. 290.
- Schwartz, Michael, assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,146,821; July 20; Gaz. vol. 216; p. 686.
- Schwartz, Steven, assignor, by mesne assignments, to L. F. Schroeder, Cleveland, Ohio. Fountain-faucet. No. 1,127,683; Feb. 9; Gaz. vol. 211; p. 394.
- Schwartz, Walter M. (See Coulston and Schwartz.)
- Schwartz, Willard A., assignor of one-half to A. J. Berry, Los Angeles, Cal. Paper-roll protector. No. 1,126,577; Jan. 26; Gaz. vol. 210; p. 1312.
- Schwartz, William T. (See Schwartz, Henry J., assignor.)
- Gaz. vol. 220; p. 804.
- Schwartzberg, Harry F., assignor to W. H. Miner, Chicago, Ill. Means for sealing the edges of refrigerator doors. No. 1,126,885; Feb. 2; Gaz. vol. 211; p. 78.
- Schwartzberg, Harry F., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-cars. No. 1,128,374; Feb. 16; Gaz. vol. 211; p. 688.
- Schwartzberg, Harry F., assignor to W. H. Miner, Chicago, Ill. Draft-yoke for railway-cars. No. 1,136,053; Apr. 20; Gaz. vol. 213; p. 779.
- Schwartzberg, Harry F., assignor to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,146,286; July 13; Gaz. vol. 216; p. 478.
- Schwartzman, Jacob, Brooklyn, N. Y. Wire fabric. No. 1,141,418; June 1; Gaz. vol. 215; p. 119.
- Schwartzman, Jacob, Brooklyn, N. Y. Wire fabric. No. 1,145,517; July 6; Gaz. vol. 216; p. 189.
- Schwarz, Alfred, assignor to New York Cement Gun Company, New York, N. Y. Forming and repairing the linings of furnaces. No. 1,125,741; Jan. 19; Gaz. vol. 210; p. 977.
- Schwarz, Alfred, assignor, by mesne assignments, to Hedden Sales Company, Inc., New York, N. Y. Emergency-horseshoe. No. 1,132,219; Mar. 16; Gaz. vol. 212; p. 902.
- Schwarz, Elmer H., New York, N. Y., assignor to General Electric Company. Means and method for varying the voltage of alternating currents. No. 1,163,268; Dec. 7; Gaz. vol. 221; p. 186.
- Schwarz, Frederick, Berne, Ind. Rotary swing. No. 1,139,232; May 11; Gaz. vol. 214; p. 569.
- Schwarz, Fritz, Mariendorf, near Berlin, assignor to Dalmier-Motoren-Gesellschaft, Untertürkheim, Germany. Fuel-valve-governing device for combustion-motors. No. 1,141,013; May 25; Gaz. vol. 214; p. 1264.
- Schwarz, Fritz, Mariendorf, near Berlin, Germany, assignor to Dalmier-Motoren-Gesellschaft, Untertürkheim, Germany. Governing device for the fuel-admission valves of combustion-motors. No. 1,149,092; Aug. 3; Gaz. vol. 217; p. 213.
- Schwarz, Julius, New York, N. Y. Curtain for kneetrousers. No. 1,132,040; Mar. 16; Gaz. vol. 212; p. 837.
- Schwarz, Julius, New York, N. Y. Curtain for kneetrousers. (Reissue.) No. 13,936; June 22; Gaz. vol. 215; p. 1247.
- Schwarz, Julius, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Automatic musical instrument. No. 1,156,499; Oct. 12; Gaz. vol. 219; p. 434.
- Schwarz, Julius, assignor of one-third to said Julius Schwarz, one-third to E. Nufer, and one-third to A. Bacharach, Union Hill, N. J. Embroidered fabric. No. 1,149,956; Aug. 10; Gaz. vol. 217; p. 629.
- Schwarz, Louis, and R. Weber, Chelalis, Wash. Sash-lock. No. 1,150,891; Aug. 24; Gaz. vol. 217; p. 1075.
- Schwarz, Otto C., New Chicago, Ind. Building-block. No. 1,131,740; Mar. 16; Gaz. vol. 212; p. 727.
- Schwarzhart, Justin, Berlin, Germany. Holder for snuff and the like. No. 1,129,022; Feb. 16; Gaz. vol. 211; p. 915.
- Schwarze, Herman G. C., Detroit, Mich. Speed-changing mechanism. No. 1,139,078; May 11; Gaz. vol. 214; p. 516.

Alphabetical list of patentees—Continued.

- Schwarzhaupt, Albrecht, Paris, France. Powder-puff. No. 1,135,852; Apr. 13; Gaz. vol. 213; p. 670.
- Schwarzschild, Monroe M. (See Nicklin, Albert E., assignor.)
- Schwarzschild, Monroe M., and B. Scheuer, New York, N. Y. Type-writing doll toy. No. 1,153,524; Sept. 14; Gaz. vol. 218; p. 450.
- Schwarzschild, Monroe M., and B. Scheuer, New York, N. Y. Type-writing-doll toy. No. 1,160,457; Nov. 16; Gaz. vol. 219; p. 100.
- Schwebel, John H., Tonopah, Nev. Safety device for elevators. No. 1,162,110; Nov. 30; Gaz. vol. 220; p. 1481.
- Schweiger, Lawrence J., Kansas City, Mo. Dry-kiln gage. No. 1,137,795; May 4; Gaz. vol. 214; p. 25.
- Schweinsburg, Emil, New York, N. Y. Corset. No. 1,137,539; Apr. 27; Gaz. vol. 213; p. 1347.
- Schweinsburg, Emil, New York, N. Y. Corset. No. 1,137,540; Apr. 27; Gaz. vol. 213; p. 1347.
- Schweinsburg, Emil, New York, N. Y. Combined shoulder-brace and compressor. No. 1,137,541; Apr. 27; Gaz. vol. 213; p. 1347.
- Schweinsburg, Emil, New York, N. Y. Corset-busk and fastening means therefor. No. 1,137,542; Apr. 27; Gaz. vol. 213; p. 1347.
- Schwehnert, Maximilian C. (See Kraft and Schwehnert.)
- Schwehnert, Maximilian C., West Hoboken, N. J. Demountable tire and rim. No. 1,164,963; Dec. 21; Gaz. vol. 221; p. 865.
- Schwehnert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, New York, N. Y. Pillow-valve. No. 1,158,420; Oct. 26; Gaz. vol. 219; p. 1202.
- Schwehnert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, New York, N. Y. Clamp for pneumatic tires. No. 1,163,695; Dec. 14; Gaz. vol. 221; p. 382.
- Schwehnert, Maximilian C., West Hoboken, N. J., and H. P. Kraft, assignors to A. Schrader's Son, Incorporated, New York, N. Y. Water-bottle stopper. No. 1,123,399; Jan. 5; Gaz. vol. 210; p. 70.
- Schwetzer and Conrad. (See Schwetzer and Conrad, assignors.)
- Schwetzer, Earnst J., and R. G. Wagner, Los Angeles, Cal. Lighting-fixture. No. 1,153,960; Sept. 21; Gaz. vol. 218; p. 636.
- Schwetzer, Edmund O., Chicago, Ill. Brush for dynamo-electric machines and the like. No. 1,145,926; July 13; Gaz. vol. 216; p. 352.
- Schwetzer, Edmund O., Chicago, Ill. Fuse device. No. 1,147,448; July 20; Gaz. vol. 216; p. 906.
- Schwetzer, Edmund O., Chicago, Ill. Record-sheet and making the same. No. 1,149,295; Aug. 10; Gaz. vol. 217; p. 391.
- Schwetzer, Edmund O., Chicago, Ill. Transformer regulation. No. 1,154,441; Sept. 21; Gaz. vol. 218; p. 802.
- Schwetzer, Edmund O., Chicago, Ill. Synchronizing recorder. No. 1,155,106; Sept. 28; Gaz. vol. 218; p. 1058.
- Schwetzer, Edmund O., Chicago, Ill. Device for protecting induction-motors and the like. No. 1,157,051; Oct. 19; Gaz. vol. 219; p. 658.
- Schwetzer, Edmund O., Chicago, Ill. System of distribution. No. 1,162,405; Nov. 30; Gaz. vol. 220; p. 1581.
- Schwetzer, Edmund O., Chicago, Ill. Transformer-pole. No. 1,162,657; Nov. 30; Gaz. vol. 220; p. 1664.
- Schwetzer, Edmund O., and A. Herz, Chicago, Ill. Fuse device. No. 1,144,732; June 29; Gaz. vol. 215; p. 1401.
- Schwetzer, Edmund O., and N. J. Conrad, Chicago, Ill., assignors to Schwetzer & Conrad. Fuse device. No. 1,135,548; Apr. 13; Gaz. vol. 213; p. 561.
- Schwetzer, Edmund O., and N. J. Conrad, assignors to Schwetzer & Conrad (Incorporated), Chicago, Ill. Horn-gap lightning-arrester. No. 1,151,726; Aug. 31; Gaz. vol. 217; p. 1405.
- Schwetzer, Edmund O., and N. J. Conrad, assignors to Schwetzer and Conrad, Chicago, Ill. Lighting-arrester. No. 1,164,757; Dec. 21; Gaz. vol. 221; p. 792.
- Schwetzer, Wilhelm, Breslau, Germany. Floor-scraper. No. 1,149,864; Aug. 10; Gaz. vol. 217; p. 596.
- Schwetzer, William, deceased, and H. H. Labadie, Chicago, Ill.; H. H. Labadie, administrator. Portable and collapsible table for automobiles. No. 1,129,609; Feb. 23; Gaz. vol. 211; p. 1157.
- Schwemann, Dietrich, Berlin-Wilmersdorf, Germany. Device for securing guard-rails on cross-ties. No. 1,130,639; Mar. 2; Gaz. vol. 212; p. 279.
- Schwenck, W. J. (See Lutz, Franklin, assignor.)
- Schwenger, Ben, assignor to The Airolast Corporation, New York, N. Y. Apparatus for smoking and curing meat products. No. 1,133,888; Mar. 30; Gaz. vol. 212; p. 1591.
- Schwenk, John L. (See Leash and Schwenk.)
- Schwentler, Francis E., assignor to American Brake Company, St. Louis, Mo. Brake-rigging for radial trucks. No. 1,138,252; May 4; Gaz. vol. 214; p. 185.
- Schwentler, Francis E., assignor to American Brake Company, St. Louis, Mo. Locomotive brake-rigging. No. 1,138,253; May 4; Gaz. vol. 214; p. 185.
- Schwerdtfeger, Walter, Stuttgart-Untertürkheim, assignor to Daimler-Motoren-Gesellschaft, Untertürkheim, Germany. Braking internal-combustion motors. No. 1,160,659; Nov. 16; Gaz. vol. 220; p. 879.
- Schwerdtfeger, Walter, Stuttgart-Untertürkheim, assignor to Daimler-Motoren-Gesellschaft, Untertürkheim, Germany. Method of and arrangement for braking internal-combustion motors. No. 1,161,417; Nov. 23; Gaz. vol. 220; p. 1194.
- Schwerdtle, Henry G. (See Reifsnnyder and Schwerdtle.)
- Schwerdtle, Henry G., assignor to Stokes & Smith Company, Philadelphia, Pa. Machine for forming sealed wrapped packages. No. 1,131,741; Mar. 16; Gaz. vol. 212; p. 727.
- Schwerdtle, Henry G., Philadelphia, assignor to Stokes & Smith Company, Summerdale, Pa. Sealed wrapped package and cover-blank therefor. No. 1,152,352; Aug. 31; Gaz. vol. 217; p. 1623.
- Schwerdtle, Henry G., Philadelphia, assignor to Stokes & Smith Company, Summerdale, Pa. Sealed wrapped package of merchandise. No. 1,152,353; Aug. 31; Gaz. vol. 217; p. 1624.
- Schwerin, Botho. (See Illig and Schwerin.)
- Schwerin, Botho, assignor to Elektro-Osmose A. G. (Graf Schwerin Gesellschaft), Frankfurt-on-the-Main, Germany. Manufacture of chemically-pure soluble silicic acid. No. 1,132,394; Mar. 16; Gaz. vol. 212; p. 960.
- Schwerin, Botho, assignor to Gesellschaft für Elektro-Osmose m. b. H., Frankfurt-on-the-Main, Germany. Electro-osmotic filter-press. No. 1,156,715; Oct. 12; Gaz. vol. 219; p. 509.
- Schwertner, Joseph, New York, N. Y., assignor to Heerwagen Company. Automatic playing apparatus. No. 1,127,097; Feb. 2; Gaz. vol. 211; p. 153.
- Schwertner, Joseph, New York, N. Y., assignor to Heerwagen Company. Automatic playing apparatus. No. 1,133,581; Mar. 30; Gaz. vol. 212; p. 1480.
- Schwibinger, George, assignor to Rundle-Spence Manufacturing Company, Milwaukee, Wis. Automatic flushing mechanism for closets. No. 1,157,186; Oct. 19; Gaz. vol. 219; p. 705.
- Schwibinger, George, assignor to Rundle-Spence Manufacturing Company, Milwaukee, Wis. Automatic flushing mechanism for closets. No. 1,157,187; Oct. 19; Gaz. vol. 219; p. 705.
- Schwickart, Philip, New York, N. Y. Ventilating and lighting construction. No. 1,146,660; July 13; Gaz. vol. 216; p. 610.
- Schwimmer, Oscar, Los Angeles, Cal. Motion-picture machine. No. 1,156,824; Oct. 12; Gaz. vol. 219; p. 547.
- Schwindling, Mathew, West Newton, Pa. Tie-plate and rail-anticreep. No. 1,160,331; Nov. 16; Gaz. vol. 220; p. 760.
- Schwingel, Francis P. (See Spencer and Schwingel.)
- Schwob, Oliver O., assignor to J. A. Schwob Co., Mounts-ville, W. Va. Scythe and post-fastening for grain-craddles. No. 1,124,816; Jan. 12; Gaz. vol. 210; p. 611.
- Schwob, Theodore H. F., Greenwood, Wis. Automobile-sleigh. No. 1,157,126; Oct. 19; Gaz. vol. 219; p. 684.
- Schwob, George W., Cody, Wyo. Motor-vehicle. No. 1,123,400; Jan. 5; Gaz. vol. 210; p. 70.
- Schwover, Levi, Pottstown, Pa. Horseshoe. No. 1,156,935; Oct. 19; Gaz. vol. 219; p. 616.
- Schylander, John, and P. Erickson, Chicago, Ill. Check-canceling machine or the like. No. 1,162,658; Nov. 30; Gaz. vol. 220; p. 1664.
- Scientific Materials Company. (See Holz, Hermann, assignor.)
- Scism, John N., New York, N. Y. Bending-tool. No. 1,159,806; Nov. 9; Gaz. vol. 220; p. 524.
- Scalfani, Antonio, New York, N. Y. Lamp for barbers' chairs. No. 1,137,091; Apr. 27; Gaz. vol. 213; p. 1186.
- Schar, Herman, New York, N. Y. Armor for vehicle-tires. No. 1,144,796; June 29; Gaz. vol. 215; p. 1424.
- Scotfield, Gilbert J., assignor to The Hilliard Clutch & Machinery Co., Elmira, N. Y. Power-transmission mechanism. No. 1,130,341; Mar. 2; Gaz. vol. 212; p. 173.
- Scotfield, Gilbert J., assignor to The Hilliard Clutch & Machinery Co., Elmira, N. Y. Clutch. No. 1,134,699; Apr. 6; Gaz. vol. 213; p. 225.
- Scotfield, Gilbert J., assignor to The Hilliard Clutch & Machinery Co., Elmira, N. Y. Clutch. No. 1,143,076; June 15; Gaz. vol. 215; p. 774.
- Scotfield, Moses F., Requa, Cal. Shirt-collar support. No. 1,123,936; Jan. 5; Gaz. vol. 210; p. 251.
- Scoggins, Jesse C. (See Nelson and Scoggins.)
- Scoggins, Jesse C., Viola, Kans. Vehicle-pole. No. 1,161,535; Nov. 23; Gaz. vol. 220; p. 1234.
- Scognamiglio, Concetta P., New York, N. Y. Automobile-horn. No. 1,139,233; May 11; Gaz. vol. 214; p. 569.
- Scognamiglio, Salvatore, New York, N. Y. Signal-horn. No. 1,140,290; May 18; Gaz. vol. 214; p. 976.
- Scognamiglio, Salvatore, New York, N. Y. Signaling device or horn for automobiles. No. 1,151,552; Aug. 24; Gaz. vol. 217; p. 1300.
- Scottford, Louis K., Chicago, Ill. Support for talking-machine records. No. 1,163,566; Dec. 7; Gaz. vol. 221; p. 290.
- Scottford, Louis K., Chicago, Ill. Needle for talking-machines and making the same. No. 1,163,567; Dec. 7; Gaz. vol. 221; p. 291.
- Scottford, Louis K., Chicago, Ill., assignor to Hill-Independent Mfg. Co., Philadelphia, Pa. Hand-stamp. No. 1,143,445; June 15; Gaz. vol. 215; p. 905.

- Scottford, Louis K., Chicago, Ill., assignor to Bates Manufacturing Company, New York, N. Y. Automatic numbering-machine. No. 1,145,084; July 6; Gaz. vol. 216; p. 40.
- Scottford, Louis K., Chicago, Ill., assignor to Bates Manufacturing Company, New York, N. Y. Numbering-machine. No. 1,145,085; July 6; Gaz. vol. 216; p. 41.
- Scott, Addison V. (See Brinson, Joseph G., assignor.)
- Scott, Albert, and J. G. Grattan, Vancouver, British Columbia, Canada. Drill. No. 1,124,337; Jan. 12; Gaz. vol. 210; p. 438.
- Scott, Alfred A., Bradford, England. Side-car chassis for motor-cycles. No. 1,125,743; Jan. 19; Gaz. vol. 210; p. 977.
- Scott, Archibald E., West Hampstead, England. Construction of ships. No. 1,131,429; Mar. 9; Gaz. vol. 212; p. 585.
- Scott, Arthur H., Oak Lane, Pa. Paper towel. No. 1,141,495; June 1; Gaz. vol. 215; p. 146.
- Scott, Arthur P., Brackenridge, assignor to Allegheny Steel Company, Pittsburgh, Pa. Producing practically pure iron. No. 1,144,256; June 22; Gaz. vol. 215; p. 1210.
- Scott, Blanche, executrix. (See Scott, Charles H.)
- Scott, Burton W., and C. J. Schliemer, assignors to Arthur Colton Co., Detroit, Mich. Charge-forming device for explosive-engines. No. 1,149,296; Aug. 10; Gaz. vol. 217; p. 392.
- Scott, Campbell, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Spool-winding machine. No. 1,132,739; Mar. 23; Gaz. vol. 212; p. 1140.
- Scott, Campbell, and A. Sundt, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Elevator safety or emergency appliance. No. 1,134,765; Apr. 6; Gaz. vol. 213; p. 250.
- Scott, Charles, Williamsburg, Va. Depositing and collection receptacle. No. 1,124,817; Jan. 12; Gaz. vol. 210; p. 612.
- Scott, Charles F., Pittsburgh, Pa., assignor to Westinghouse Lamp Company, Incandescent lamp. No. 1,125,744; Jan. 19; Gaz. vol. 210; p. 978.
- Scott, Charles F., Pittsburgh, Pa., assignor to Westinghouse Lamp Company, Mounting for incandescent-lamp filaments. No. 1,145,707; July 6; Gaz. vol. 216; p. 257.
- Scott, Charles H., deceased, Minneapolis, Minn.; R. Scott, executrix. Scale. No. 1,156,500; Oct. 12; Gaz. vol. 219; p. 435.
- Scott, Charles L., Springfield, Oreg. Transmission of power. No. 1,164,410; Dec. 14; Gaz. vol. 221; p. 631.
- Scott, Clarence N., Buffalo, assignor to International Steam Pump Company, New York, N. Y. Blowing-engine and the like. No. 1,150,069; Aug. 17; Gaz. vol. 217; p. 730.
- Scott, David J., Plainfield, N. J. Paper folding and stitching machine. No. 1,163,374; Dec. 7; Gaz. vol. 221; p. 224.
- Scott, Earl R., Joliet, Ill. Guard-rail. No. 1,157,426; Oct. 19; Gaz. vol. 219; p. 792.
- Scott, Elisha H., assignor to Swayne, Robinson and Co., Richmond, Ind. Feeding device for ensilage-cutting machines. No. 1,136,978; Apr. 27; Gaz. vol. 213; p. 1144.
- Scott, Elton H., Somerville, Mass. Weeder. No. 1,141,659; June 1; Gaz. vol. 215; p. 203.
- Scott, Ephriam J., Providence, R. I. Machine for opening envelops. No. 1,143,919; June 22; Gaz. vol. 215; p. 1089.
- Scott, Ephriam J., Providence, R. I. Friction-coil clutch. No. 1,159,717; Nov. 9; Gaz. vol. 220; p. 490.
- Scott, Frank R., Hanover, N. Y. Clamp for fruit-basket covers. No. 1,126,886; Feb. 2; Gaz. vol. 211; p. 78.
- Scott, Frederick C., Detroit, Mich. Hoose-clamp. No. 1,135,059; Apr. 13; Gaz. vol. 213; p. 393.
- Scott, George E., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck. No. 1,135,627; Apr. 13; Gaz. vol. 213; p. 590.
- Scott, George W., Troy, Ohio. Storm-front for vehicles. No. 1,142,061; June 8; Gaz. vol. 215; p. 380.
- Scott, Gilford. (See Lawrence and Scott.)
- Scott, Henry D., Sheridan, Wyo. Mine-car brake. No. 1,155,964; Oct. 5; Gaz. vol. 219; p. 222.
- Scott, Horatio S., Ashland, Ohio. Feed-regulator for mixers. No. 1,124,338; Jan. 12; Gaz. vol. 210; p. 438.
- Scott, Jacob R., North Weymouth, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,127,098; Feb. 2; Gaz. vol. 211; p. 153.
- Scott, Jacob R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Leather-buffing machine. No. 1,146,529; July 13; Gaz. vol. 216; p. 566.
- Scott, Jacob R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Leather-buffing machine. No. 1,147,819; July 27; Gaz. vol. 216; p. 1061.
- Scott, James A., Worcester, Mass. Folding box and cover. No. 1,156,250; Oct. 12; Gaz. vol. 219; p. 345.
- Scott, James C., Portsmouth, Ohio, assignor to Unitee Knitwear Company, Oriskany Falls, N. Y. Union undergarment. No. 1,138,982; May 11; Gaz. vol. 214; p. 481.
- Scott, James G., Tulsa, Okla. Self-wringing mop. No. 1,126,887; Feb. 2; Gaz. vol. 211; p. 78.
- Scott, James H., New York, N. Y., assignor to Hutchison Scott Company. Protective covering for metals. No. 1,123,401; Jan. 5; Gaz. vol. 210; p. 70.
- Scott, John L., Vermillion, Ohio. Propeller. No. 1,142,915; June 15; Gaz. vol. 215; p. 717.
- Scott, John L., Vermillion, Ohio. Propeller. No. 1,142,916; June 15; Gaz. vol. 215; p. 717.
- Scott, John M., Racine, Wis. Tie-plate and rail-brace. No. 1,144,003; June 22; Gaz. vol. 215; p. 1120.
- Scott, John M., Racine, Wis. Steering-gear for motor-vehicles. No. 1,153,961; Sept. 21; Gaz. vol. 218; p. 637.
- Scott, John M., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,135,549; Apr. 13; Gaz. vol. 213; p. 562.
- Scott, John M., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,143,077; June 15; Gaz. vol. 215; p. 774.
- Scott, John R., Tracy, Cal. Game. No. 1,161,984; Nov. 30; Gaz. vol. 220; p. 1436.
- Scott, John W. (See Simon and Scott.)
- Scott, John W., New York, N. Y., and T. H. Greer, South Orange, N. J. Detachable stair-tread. No. 1,142,372; June 8; Gaz. vol. 215; p. 489.
- Scott, Joseph A., Seattle, Wash. Water-tube boiler. No. 1,158,865; Nov. 2; Gaz. vol. 220; p. 160.
- Scott, Lewis L., St. Louis, Mo. Resilient apparatus for vehicles. No. 1,159,872; Nov. 9; Gaz. vol. 220; p. 547.
- Scott, Matthew T., Blue Springs, Mo. Subsoil-plow. No. 1,136,172; Apr. 20; Gaz. vol. 213; p. 821.
- Scott, Nathan D., Deshler, Ohio. Chain coupling for cars. No. 1,132,625; Mar. 23; Gaz. vol. 212; p. 1099.
- Scott Paper Company. (See Calvert, Frank W., assignor.)
- Scott Paper Company. (See Hamilton, Walter L., assignor.)
- Scott Paper Company. (See Hamilton and Calvert, assignors.)
- Scott Paper Company. (See Liebeck, Harry, assignor.)
- Scott Paper Company. (See Parsons, Philip D., assignor.)
- Scott, Richard, Greenville, Ala. Wrench. No. 1,133,509; Mar. 30; Gaz. vol. 212; p. 1454.
- Scott, Richard D., St. Albans, Vt. Cap for type-writer key-levers. No. 1,148,721; Aug. 3; Gaz. vol. 217; p. 85.
- Scott, Robert F., Cadiz, Ohio. Road. No. 1,138,983; May 11; Gaz. vol. 214; p. 481.
- Scott, Robert W., Boston, Mass. Adjustment device for machine elements. No. 1,138,799; May 11; Gaz. vol. 214; p. 417.
- Scott, Robert W., Boston, Mass. Mechanism for knitting upon transferred fabric sections. No. 1,150,547; Aug. 17; Gaz. vol. 217; p. 899.
- Scott, Robert W., Boston, Mass. Knit article and making the same. No. 1,150,548; Aug. 17; Gaz. vol. 217; p. 899.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Seamless stocking. No. 1,123,402; Jan. 5; Gaz. vol. 210; p. 70.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Philadelphia, Pa. Yarn-changing device for knitting-machines. No. 1,123,937; Jan. 5; Gaz. vol. 210; p. 251.
- Scott, Robert W., Boston, Mass., assignor to Scott and Williams, Incorporated, Philadelphia, Pa. Welded knitted web and making the same. (Reissue.) No. 1,38,60; Jan. 5; Gaz. vol. 210; p. 364.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Welded knit stocking or other garment and knitting the same. No. 1,125,190; Jan. 19; Gaz. vol. 210; p. 779.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Welded knit stocking and knitting the same. No. 1,128,728; Feb. 16; Gaz. vol. 211; p. 809.
- Scott, Robert W., assignor to Scott & Williams, Incorporated, Camden, N. J. Circular-knitting machine for fabric of changeable sizes. No. 1,147,649; July 20; Gaz. vol. 216; p. 977.
- Scott, Robert W., assignor to Scott & Williams, Incorporated, Boston, Mass. Circular-knitting machine. No. 1,148,055; July 27; Gaz. vol. 216; p. 1146.
- Scott, Robert W., assignor to Scott & Williams, Incorporated, Boston, Mass. Knitting selvaged fabrics. No. 1,148,056; July 27; Gaz. vol. 216; p. 1146.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Device for knitting on transferred fabric sections. No. 1,150,549; Aug. 17; Gaz. vol. 217; p. 900.
- Scott, Robert W., assignor to Scott & Williams, Incorporated, Boston, Mass. Attachment for circular hosiery-machines. No. 1,152,849; Sept. 7; Gaz. vol. 218; p. 172.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Circular-knitting machine. No. 1,152,850; Sept. 7; Gaz. vol. 218; p. 173.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Yarn feeding and changing mechanism for knitting-machines. No. 1,159,873; Nov. 9; Gaz. vol. 220; p. 548.
- Scott, Robert W., Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Yarn-changing mechanism for knitting-machines. No. 1,159,874; Nov. 9; Gaz. vol. 220; p. 548.

Alphabetical list of patentees—Continued.

- Scott, Theophilus. (See Blashfield, James M., assignor.)
- Scott, Thomas, assignor to Parkinson and W. & B. Cowan Limited, Birmingham, England. Meter for elastic fluids. No. 1,151,406; Aug. 24; Gaz. vol. 217; p. 1249.
- Scott, Thomas J., Marshfield, Oreg. Pipe connection. No. 1,147,755; July 27; Gaz. vol. 216; p. 1040.
- Scott, Walter E., assignor to Hale and Kilburn Company, Philadelphia, Pa. Car construction. No. 1,137,429; Apr. 27; Gaz. vol. 213; p. 1311.
- Scott, Walter T., Gloucester, Mass. Fastening device. No. 1,140,291; May 18; Gaz. vol. 214; p. 976.
- Scott, William A. (See Caylor and Scott.)
- Scott, William H. (See White, Anna, assignor.)
- Scott, William M., Radnor, Pa. Circuit-breaker-tripping apparatus. No. 1,123,809; Jan. 5; Gaz. vol. 210; p. 208.
- Scott, William M., Radnor, Pa. Circuit-breaker-tripping apparatus. No. 1,124,179; Jan. 5; Gaz. vol. 210; p. 334.
- Scott, William M., Baltimore, Md. Tree protection. No. 1,130,545; Mar. 2; Gaz. vol. 212; p. 248.
- Scott, William M., Baltimore, Md. Tree protection. No. 1,130,546; Mar. 2; Gaz. vol. 212; p. 248.
- Scott, William M., Berwyn, Pa. Circuit-breaker. No. 1,138,800; May 11; Gaz. vol. 214; p. 418.
- Scott, William M., Philadelphia, Pa. Electropneumatic switch. No. 1,147,820; July 27; Gaz. vol. 216; p. 1062.
- Scott, William M., Philadelphia, Pa., assignor to The Cutler Electrical and Manufacturing Company. Circuit-breaker. No. 1,125,745; Jan. 19; Gaz. vol. 210; p. 978.
- Scott, William W., Plant City, Fla. Horn-blowing attachment for automobiles. No. 1,138,801; May 11; Gaz. vol. 214; p. 418.
- Scott & Williams. (See Scott, Robert W., assignor.)
- Scott & Williams. (See Swinglehurst, Harry, assignor.)
- Scott & Williams. (See Williams, Louis N. D., assignor.)
- Scott & Williams. (See Zens, Joseph H., assignor.)
- Scott, Zachary T., Austin, Tex. Steam-condenser. No. 1,156,501; Oct. 12; Gaz. vol. 219; p. 435.
- Scotto, Ottavio, *et al.* (See Arena, Felice, assignor.)
- Scotucci, Lino E., and P. A. Elmarson, Buenos Aires, Argentina. Resilient tire. No. 1,125,191; Jan. 19; Gaz. vol. 210; p. 780.
- Scovill, James P., Wyoming, Ohio, assignor to The Trojan Machine Company, Troy, N. Y. Tobacco-stemming roll. No. 1,145,441; July 6; Gaz. vol. 216; p. 163.
- Scovill, James P., Wyoming, Ohio, assignor to one-half to C. H. Foster, Troy, N. Y. Tobacco-stemming machine. No. 1,153,962; Sept. 21; Gaz. vol. 218; p. 637.
- Scovill Manufacturing Company. (See Ashley, Edward L., assignor.)
- Scovill Manufacturing Company. (See Davis, Joseph K., assignor.)
- Scovill Manufacturing Company. (See King, George A., assignor.)
- Scovill Manufacturing Company. (See Stanley, Frederick E., assignor.)
- Scoville, Eugene M., Waipahu, Hawaii. Valve. No. 1,161,257; Nov. 23; Gaz. vol. 220; p. 1136.
- Scoville, Frank F. (See Cole and Scoville.)
- Scoweroff, Walter. (See Gunn, Bark, and Scoweroff.)
- Scowden, Edward W., Frewsburg, N. Y. Method and apparatus for concreting piles. No. 1,157,328; Oct. 19; Gaz. vol. 219; p. 756.
- Scranton, Israel, Springfield, Ill. Lubricating device. No. 1,128,820; Feb. 16; Gaz. vol. 211; p. 843.
- Scranton Stove Works. (See Lansing, James A., assignor.)
- Scribner, John F., Chicago, Ill. Non-glare reflector. No. 1,143,650; June 22; Gaz. vol. 215; p. 999.
- Scribmeour, William, Portsmouth, Va. Drawing, forging, or swaging hollow metal articles. No. 1,151,222; Aug. 24; Gaz. vol. 217; p. 1189.
- Scribmeour, William, Portsmouth, assignor to Mires Fuel-Oil Equipment Company, Norfolk, Va. Hydrocarbon-burner. No. 1,128,908; Feb. 16; Gaz. vol. 211; p. 874.
- Scroggins, Robert H., Vienna, Va., assignor to one-half to J. H. Bradley, Washington, D. C. Wheel-dangle-lubricating mechanism. No. 1,129,127; Feb. 23; Gaz. vol. 211; p. 987.
- Scribmeour, Frank L., Mansfield, Mass. Attachment for forming a French edge on velvet hats. No. 1,164,126; Dec. 14; Gaz. vol. 221; p. 533.
- Scudder, Charles, assignor to Scudder-Haas Manufacturing Co., Seattle, Wash. Receptacle. No. 1,147,650; July 20; Gaz. vol. 216; p. 977.
- Scudder, Charles, assignor to Scudder-Haas Manufacturing Co., Seattle, Wash. Receptacle. No. 1,147,651; July 20; Gaz. vol. 216; p. 978.
- Scudder, Charles, assignor to Scudder-Haas Manufacturing Co., Seattle, Wash. Receptacle. No. 1,147,652; July 20; Gaz. vol. 216; p. 978.
- Scudder, Ephraim, and C. M. Corlew, assignors of one-third to J. Carleton, Sioux Falls, S. D. Hose-supporter. No. 1,132,395; Mar. 16; Gaz. vol. 212; p. 966.
- Scudder-Haas Manufacturing Co. (See Scudder, Charles, assignor.)
- Scullane, James B. (See Havlicek and Scullane.)
- Scuterud, Mikarl. (See Severy and Scuterud.)
- Scuterud, Mikarl A., Arlington Heights, assignor to Choralcelo Manufacturing Company, Boston, Mass. Ball-bearing. No. 1,156,320; Oct. 12; Gaz. vol. 219; p. 368.
- Szczawnyicki, Frank, Bridgeport, Conn. Trolley. No. 1,159,807; Nov. 9; Gaz. vol. 220; p. 524.
- Sea Swing Company, The. (See Kohler, Robert L., assignor.)
- Seabough, Emma, Dallas, Tex. Pen and pencil holder. No. 1,125,405; Jan. 19; Gaz. vol. 210; p. 858.
- Seaberg, Frederick. (See Hart and Seaberg.)
- Seaberg, Frederick, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism for railway-cars. No. 1,151,407; Aug. 24; Gaz. vol. 217; p. 1249.
- Seaboard Specialty Corporation. (See Beardsley, Frank W., assignor.)
- Seabrook, Harry H. (See Long and Simpson, assignors.)
- Seabrook, William H., Jr., Savannah, Ga. Detaching apparatus for use on hydroaeroplanes to promote safety in air navigation. No. 1,134,492; Apr. 6; Gaz. vol. 213; p. 149.
- Seabury, Howard, Nevada City, Cal. Fastener. No. 1,164,227; Dec. 14; Gaz. vol. 221; p. 565.
- Seach, George, Dubois, Pa. Bundle-tier. No. 1,135,853; Apr. 13; Gaz. vol. 213; p. 670.
- Seach, George, Dubois, Pa. Antiskid device. No. 1,135,854; Apr. 13; Gaz. vol. 213; p. 670.
- Seagrave Company, The. (See Lee, William E., assignor.)
- Seal & Fastener Co., The. (See Flora, Ellsworth E., assignor.)
- Seale, Walter C. (See Trammel, Charles S., assignor.)
- Seals, Rufus K. (See Ward and Seals.)
- Seals, Wade H., Rossville, Ill. End-gate. No. 1,156,498; Oct. 12; Gaz. vol. 219; p. 434.
- Seaman, Albert J., assignor to himself and C. Rowe, Boston, Mass. Cooling device for rotary gas-engines. No. 1,123,403; Jan. 5; Gaz. vol. 210; p. 71.
- Seaman, Albert J., assignor to Seaman Engine Company, Boston, Mass. Valve mechanism for internal-combustion engines. No. 1,142,987; June 15; Gaz. vol. 215; p. 743.
- Seaman, Albert J., assignor to Seaman Engine Company, Boston, Mass. Internal-combustion engine. No. 1,165,290; Dec. 21; Gaz. vol. 221; p. 979.
- Seaman, Albert J., assignor to Seaman Engine Co., Boston, Mass. Valve mechanism for internal-combustion engines. No. 1,165,291; Dec. 21; Gaz. vol. 221; p. 979.
- Seaman, Alexander F., Pottsville, Pa. Shoe-button separator. No. 1,141,727; June 1; Gaz. vol. 215; p. 227.
- Seaman, Alonzo D., Milwaukee, Wis. Vacuum-cleaner for rugs. No. 1,149,169; Aug. 3; Gaz. vol. 217; p. 240.
- Seaman, Barney, New York, N. Y. Twine-cutter. No. 1,134,700; Apr. 6; Gaz. vol. 213; p. 225.
- Seaman, Charles H. (See Foerster and Seaman.)
- Seaman, Charles H., assignor to O. H. Foerster, Milwaukee, Wis. Composition for refrigerator-linings, &c. No. 1,144,615; June 29; Gaz. vol. 215; p. 1360.
- Seaman Engine Company. (See Seaman, Albert J., assignor.)
- Seaman, George W., assignor to The Aultman & Taylor Machinery Company, Mansfield, Ohio. Connecting-rod. No. 1,126,888; Feb. 2; Gaz. vol. 211; p. 79.
- Seaman, Kent L., Port Wayne, Ind. Garment-support. No. 1,130,343; Mar. 2; Gaz. vol. 212; p. 174.
- Seamans, Edward W., Grand Rapids, Mich. Filling and packing machine. No. 1,151,970; Aug. 31; Gaz. vol. 217; p. 1491.
- Seamans, Joseph, Chicago, Ill. Display-rack. No. 1,149,691; Aug. 10; Gaz. vol. 217; p. 535.
- Searby, William, Punnehe, Hawaii. Manufacture of sugar. No. 1,146,456; July 13; Gaz. vol. 216; p. 541.
- Searcy, William W., Baltimore, Md. Curtain for shoe-polishing chairs. No. 1,147,449; July 20; Gaz. vol. 216; p. 907.
- Searing, Eugene P., assignor to Benjamin Eastwood Company, Paterson, N. J. Warming-machine. No. 1,133,749; Mar. 30; Gaz. vol. 212; p. 1541.
- Searing, Libbie, Lima, Ohio. Receptacle and closure therefor. No. 1,126,097; Jan. 26; Gaz. vol. 210; p. 1137.
- Searle, Frank, Ennis, Mont. Harness. No. 1,161,738; Nov. 23; Gaz. vol. 220; p. 1302.
- Searles, Daniel R., Tiffin, Ohio. Vulcanizer. No. 1,139,234; May 11; Gaz. vol. 214; p. 570.
- Searles, John E. (See Buckley, Duer H., assignor.)
- Sears, Edward, Beaverton, Oreg. Lubricating system. No. 1,135,719; Dec. 28; Gaz. vol. 221; p. 1169.
- Sears, Frederick D., and A. O. Sodergren, Minneapolis, Minn. Reel for moving-picture machines. No. 1,137,912; May 4; Gaz. vol. 214; p. 66.
- Sears, George F., J. H. Prose, and R. T. Anderson, Huntington, W. Va. Automobile-curtain and mounting. No. 1,134,641; Apr. 6; Gaz. vol. 213; p. 204.
- Sears, George H. (See Whipple, William N., assignor.)
- Sears, Roebuck & Co. (See Allais, John R., assignor.)
- Sears, Roebuck and Co. (See Palmer, Clinton D., assignor.)
- Sears, Roebuck and Company. (See Eiler, Frank L., assignor.)
- Sears, Roebuck & Company. (See Fowler, Gordon F., assignor.)

Alphabetical list of patentees—Continued.

- Sears, Roebuck and Company. (See Hasberg and Swanlund, assignors.)
- Sears, Roebuck and Company. (See Hoffman, Rudolph, assignor.)
- Sears, Roebuck and Company. (See Sommerfeld, William, assignor.)
- Sears, Victor H., Chicago, Ill. Spring suspension device for vehicles. No. 1,139,909; May 18; Gaz. vol. 214; p. 844.
- Sears, Wellington H., Ansonia, Conn. Friction-clutch. No. 1,148,998; Aug. 3; Gaz. vol. 217; p. 181.
- Sears, Willard T., Philadelphia, Pa. Shock-absorber. No. 1,123,404; Jan. 5; Gaz. vol. 210; p. 71.
- Sears, Willard T., Hartford, Conn. Shock-absorber. No. 1,147,272; July 20; Gaz. vol. 216; p. 843.
- Seaton, Benjamin C., Detroit, Mich. Tire-securing device. No. 1,140,487; May 25; Gaz. vol. 214; p. 1083.
- Seator Machine Mfg. Company. (See Seator, Robert J., assignor.)
- Seator, Robert J., assignor to Seator Machine Mfg. Company, Battle Creek, Mich. Bread-wrapping machine and machine for similar purposes. No. 1,140,620; May 25; Gaz. vol. 214; p. 1128.
- Seator, Robert J., assignor to Seator Machine Mfg. Company, Battle Creek, Mich. Paper feed and cut-off means. No. 1,153,346; Sept. 14; Gaz. vol. 218; p. 385.
- Seaver, C. Le Roy, Jr. (See Harris, Samuel J., assignor.)
- Seaver, Edward, Jr., Boston, Mass., assignor to The Westinghouse Machine Company. Fluid-translating device. No. 1,148,992; Aug. 3; Gaz. vol. 217; p. 179.
- Seaver, Nelson J. (See Grunbauch, Charles, assignor.)
- Seavey, Edward L., assignor to B R E Manufacturing Company, Hyde Park, Mass. Water-closet seat and connection therefor. No. 1,163,111; Dec. 7; Gaz. vol. 221; p. 131.
- Seavey, Eugene, New York, N. Y. Manufacture of natural ice. No. 1,163,472; Dec. 7; Gaz. vol. 221; p. 258.
- Sebald, Joseph H., Arlington, N. J., assignor to Henry R. Worthington, New York, N. Y. Multiple-expansion engine. No. 1,124,339; Jan. 12; Gaz. vol. 210; p. 439.
- Sebald, Joseph H., Arlington, N. J., assignor to Henry R. Worthington, New York, N. Y. Multiple-expansion engine. No. 1,124,340; Jan. 12; Gaz. vol. 210; p. 439.
- Sebald, Joseph H., Arlington, N. J., assignor to Henry R. Worthington, New York, N. Y. Pump valve-pot. No. 1,133,406; Mar. 30; Gaz. vol. 212; p. 1418.
- Sebald, Joseph H., Easton, Pa., assignor to A. S. Cameron Steam Pump Works, New York, N. Y. Multi-impeller single-stage centrifugal pump. No. 1,158,569; Nov. 2; Gaz. vol. 220; p. 57.
- Sebald, Joseph H., Easton, Pa., assignor to A. S. Cameron Steam Pump Works, New York, N. Y. Multistage centrifugal pump. No. 1,165,543; Dec. 28; Gaz. vol. 221; p. 1105.
- Sebastiani, Adalbert von, New York, N. Y. Device for perforating bunches. No. 1,125,598; Jan. 19; Gaz. vol. 210; p. 924.
- Sebestyen, Alexander, New York, N. Y. Toy. No. 1,164,411; Dec. 14; Gaz. vol. 221; p. 632.
- Sebok, Paul, Jr., Heatherman, W. Va. Circuit-closer. No. 1,149,787; Aug. 10; Gaz. vol. 217; p. 568.
- Sebring, Daniel, Spokane, Wash. Saw-gage. No. 1,153,262; Sept. 14; Gaz. vol. 218; p. 355.
- Sebring, Harry O., Sebring, Ohio. Headlight. No. 1,131,797; Mar. 16; Gaz. vol. 212; p. 750.
- Sebring, James A., assignor to The Bishop-Babcock-Becker Company, Cleveland, Ohio. Frame for soda-fountains and the like. No. 1,161,536; Nov. 23; Gaz. vol. 220; p. 1234.
- Sebula, Andrew A., South Manchester, Conn. Permutation-lock. No. 1,152,231; Aug. 31; Gaz. vol. 217; p. 1581.
- Sechrest, Clayton B., New Britain, Conn. Tool-holder. No. 1,140,772; May 25; Gaz. vol. 214; p. 1178.
- Seck, Karl H. W. L., assignor to Firm of H. Lanz, Mannheim, Germany. Driving mechanism for rotary power hoes or cultivators. No. 1,152,558; Sept. 7; Gaz. vol. 218; p. 66.
- Seckendorf, Samuel, New York, N. Y. Lock for motor-vehicles. No. 1,151,830; Aug. 31; Gaz. vol. 217; p. 1443.
- Seckler, Eugen, Lake View, N. J. Comber-board. No. 1,150,396; Aug. 17; Gaz. vol. 217; p. 846.
- Seckman, Walter C., assignor of one-half to F. L. Luton, Piney, W. Va. Non-spillable ink-well. No. 1,163,782; Dec. 14; Gaz. vol. 221; p. 412.
- Secor, Edward M., New York, N. Y. Mechanical toy. No. 1,145,086; July 6; Gaz. vol. 216; p. 41.
- Secor, Jerome B., assignor to Secor Typewriter Company, Derby, Conn. Type-writing machine. No. 1,140,190; May 18; Gaz. vol. 214; p. 943.
- Secor Typewriter Company. (See Secor, Jerome B., assignor.)
- Secrist, Joseph, Nuttallburg, W. Va. Mining-machine. No. 1,160,660; Nov. 16; Gaz. vol. 220; p. 879.
- Security Metallic Grave Vault Co. (See Boyd, David C., assignor.)
- Security Tag Company. (See Tewksbury, Charles B., assignor.)
- Sedgley, Reginald. (See Kolb and Sedgley.)
- Sedgwick, Cecil H., Millwall, London, England. Metal-punching machine. No. 1,132,490; Mar. 16; Gaz. vol. 212; p. 1001.
- Sedgwick, Hiram G., Mill Valley, Cal., assignor to The National Safety Appliance Company. Train-stopping device. No. 1,164,758; Dec. 21; Gaz. vol. 221; p. 792.
- Sedlacek, Joseph, Binghamton, N. Y. Door-lock. No. 1,154,271; Sept. 21; Gaz. vol. 218; p. 743.
- Sedlmayer, Charles I., and J. W. Brooks, Stamford, Conn. Adjustable valve reseating or milling tool. No. 1,132,396; Mar. 16; Gaz. vol. 212; p. 967.
- Sedneff, Constantin de, Paris, France. Electrical accumulator. No. 1,149,558; Aug. 10; Gaz. vol. 217; p. 484.
- See, James W., Hamilton, Ohio. Vermin-poison manufacture. No. 1,161,537; Nov. 23; Gaz. vol. 220; p. 1235.
- See, John. (See Wimmer and See.)
- Seeber, Frederick. (See Nugent, James M., assignor.)
- Seeburger, Charles D., New York, N. Y. Drive-chain. No. 1,127,684; Feb. 9; Gaz. vol. 211; p. 394.
- Seeburger, Charles D., New York, N. Y. Pneumatic tire. No. 1,134,701; Apr. 6; Gaz. vol. 213; p. 226.
- Seede, John A., Niskayuna, N. Y., assignor to General Electric Company. Arc-welding system. No. 1,141,980; June 8; Gaz. vol. 215; p. 349.
- Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Arc-welding. No. 1,156,502; Oct. 12; Gaz. vol. 219; p. 435.
- Seger, August C., East St. Louis, Ill. Fire-extinguisher. No. 1,147,557; July 20; Gaz. vol. 216; p. 943.
- Seegmiller, Charles H., assignor to I. M. Seegmiller, Chicago, Ill. Folding box. No. 1,127,293; Feb. 2; Gaz. vol. 211; p. 221.
- Seegmiller, Ida M. (See Seegmiller, Charles H., assignor.)
- Seegrlist, Jacob W., Palco, Kans. Boiler-cleaner. No. 1,126,302; Jan. 26; Gaz. vol. 210; p. 1210.
- Seel, William F., Denver, Colo. Apparatus for opening and closing automobile-doors. No. 1,123,405; Jan. 5; Gaz. vol. 210; p. 71.
- Seeley, James E., Los Angeles, Cal. X-ray tube. No. 1,147,125; July 20; Gaz. vol. 216; p. 792.
- Seeley, James E., Los Angeles, Cal. Electrical machine. No. 1,157,592; Oct. 19; Gaz. vol. 219; p. 845.
- Seeley, James E., assignor to Vulcan Coll Company, Los Angeles, Cal. Spark-gap. No. 1,162,659; Nov. 30; Gaz. vol. 220; p. 1665.
- Seeley, Walter A., and H. M. Vetterlein, Newark, N. J. Animal-trap. No. 1,139,587; May 18; Gaz. vol. 214; p. 729.
- Seelman, George, Jr., Milwaukee, Wis. Book-cover. No. 1,157,810; Oct. 26; Gaz. vol. 219; p. 985.
- Seelman, George, Jr., Milwaukee, Wis. Pad and holder. No. 1,165,720; Dec. 28; Gaz. vol. 221; p. 1169.
- Seely, Thomas H. (See Hooper and Seely.)
- Seely, Thomas H., Dorchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for preparing welts. No. 1,127,376; Feb. 2; Gaz. vol. 211; p. 247.
- Seely, Thomas H., Dorchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,161,894; Nov. 30; Gaz. vol. 220; p. 1404.
- Seely, Thomas H., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for preparing welts. No. 1,143,078; June 15; Gaz. vol. 215; p. 775.
- Seely, Thomas H., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Insole-reinforcing machine. No. 1,143,297; Aug. 10; Gaz. vol. 217; p. 392.
- Seely, Thomas H., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-beating machine. No. 1,158,570; Nov. 2; Gaz. vol. 220; p. 57.
- Sefton Manufacturing Company, The. (See Fairchild, Walter H., assignor.)
- Sefton Manufacturing Company, The. (See Ferres, Jeffrey T., assignor.)
- Sefton Manufacturing Company, The. (See Mareness, Berton L., assignor.)
- Sefton Manufacturing Company, The. (See Potter, Earl C., assignor.)
- Sefton Manufacturing Company, The. (See Spence, Samuel C., assignor.)
- Segal, Bettie. (See Pereira, Alberto, assignor.)
- Segal, Samuel, assignor to Burglar Proof Lock and Hardware Corporation, New York, N. Y. Lock. No. 1,162,406; Nov. 30; Gaz. vol. 220; p. 1582.
- Segee, Gerard T., Revere, Mass. Nut-lock. No. 1,153,347; Sept. 14; Gaz. vol. 218; p. 386.
- Segee, Gerard T., Revere, Mass. Void-tire. No. 1,153,348; Sept. 14; Gaz. vol. 218; p. 386.
- Segelhorst, William D. (See Limburg and Segelhorst.)
- Seger, Joseph, New York, N. Y. Vegetable-cutter. No. 1,155,762; Oct. 5; Gaz. vol. 219; p. 151.
- Segrell, Edward J., Newark, N. J. Skirt. No. 1,147,897; July 27; Gaz. vol. 216; p. 1089.
- Segschneider, Gustav, Yonkers, N. Y. Hat-brim-curling machine. No. 1,134,353; Apr. 6; Gaz. vol. 213; p. 99.
- Seibach, Wilhelm, Barmen, Germany. Dyeing-machine. No. 1,162,259; Nov. 30; Gaz. vol. 220; p. 1532.
- Schelm, Joseph, and E. W. Mellin, Bloomfield, N. J. Device for applying blacking and the like. No. 1,129,524; Feb. 23; Gaz. vol. 211; p. 1126.

Alphabetical list of patentees—Continued.

- Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,132,286; Mar. 10; Gaz. vol. 212; p. 928.
- Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,153,716; Sept. 14; Gaz. vol. 218; p. 518.
- Selb, Lee R., Houston, Tex. Attachment for bath-tubs. No. 1,166,088; Dec. 28; Gaz. vol. 221; p. 1296.
- Selber, Harvey W., Canal Dover, Ohio. Horseshoe. No. 1,145,273; July 6; Gaz. vol. 216; p. 104.
- Selberling, Frank A., Akron, Ohio. Rubberizing fabric. No. 1,133,322; Mar. 30; Gaz. vol. 212; p. 1387.
- Seibert, John W., and J. W. Riley, Galesburg, Ill. Non-skid mud-shoe for autos. No. 1,131,560; Mar. 9; Gaz. vol. 212; p. 629.
- Seibt, Georg, assignor to The Radio Telephone Company, New York, N. Y. Means for generating and radiating electromagnetic waves. No. 1,153,717; Sept. 14; Gaz. vol. 218; p. 518.
- Seibt, Georg, Schöneberg, near Berlin, Germany, assignor to General Transmission Company, New York, N. Y. Electric plate-condenser. No. 1,155,448; Oct. 5; Gaz. vol. 219; p. 43.
- Seidel, Emil. (See Schad and Seidel.)
- Seidel, Francis F. (See Rothenberger, Daniel M., assignor.)
- Seidel, George E., Richmond, Ind. Vehicle-top. No. 1,140,404; May 25; Gaz. vol. 214; p. 1052.
- Seidel, Harry F., and C. W. Voskamp, Pittsburgh, Pa. Tension. No. 1,131,090; Mar. 9; Gaz. vol. 212; p. 467.
- Seidel, Paul, Los Angeles Cal. Car-wheel. No. 1,136,839; Apr. 20; Gaz. vol. 213; p. 1059.
- Seidel, William, Chicago, Ill. Resilient wheel. No. 1,166,155; Dec. 28; Gaz. vol. 221; p. 1323.
- Seldenberg, Armin, New York, N. Y. Drying and extracting apparatus. No. 1,164,667; Dec. 21; Gaz. vol. 221; p. 762.
- Seldenschur, Friedrich, Charlottenburg, and J. Dehnst, Halensee, near Berlin, assignors to Rütgerswerke Aktiengesellschaft, Berlin, Germany. Treating crude petroleum. No. 1,162,729; Nov. 30; Gaz. vol. 220; p. 1689.
- Seidl, Rudolf, Minneapolis, Minn. Cleaning grain. No. 1,152,920; Sept. 7; Gaz. vol. 218; p. 198.
- Seidman, Charles, Philadelphia, Pa. Cam mechanism for looms for weaving tubular ties having reinforcements at the knot-tying spaces. No. 1,128,821; Feb. 16; Gaz. vol. 211; p. 843.
- Seifert, Bruno R., Radebeul, near Dresden, and W. Leibrock, Dresden, assignors to Chemische Fabrik von Heyden Aktiengesellschaft, Radebeul, near Dresden, Germany. Manufacture of alkali amid. No. 1,148,194; July 27; Gaz. vol. 216; p. 1196.
- Seifert, Lewis H., Mineral Ridge, Ohio. Toy. No. 1,150,971; Aug. 24; Gaz. vol. 217; p. 1103.
- Selfert, Theodore H., Chicago, Ill. Clothes-line holder. No. 1,137,796; May 4; Gaz. vol. 214; p. 25.
- Seifke, Herman A., San Francisco, Cal. Mixing-tumbler. No. 1,134,354; Apr. 6; Gaz. vol. 213; p. 99.
- Selzel, Herman. (See Selzel, William M. and H.)
- Selzel, William M. and H., Denver, Colo. Cleaning and bleaching composition. No. 1,165,027; Dec. 21; Gaz. vol. 221; p. 887.
- Seipp, Henry C., Pittsburgh, Pa. Tire. No. 1,133,066; Mar. 23; Gaz. vol. 212; p. 1261.
- Seipp, Henry C., Pittsburgh, Pa. Tile for pavements, sidewalks, and other like constructions. No. 1,146,961; July 20; Gaz. vol. 216; p. 736.
- Selsel, Emil F. (See Selsel, Max A. and E. F.)
- Selsel, Max A., Boston, and E. F. Selsel, Norwood, Mass. Steering-gear for automobiles. No. 1,148,864; Aug. 3; Gaz. vol. 217; p. 135.
- Seiter, Henry W., New York, N. Y. Advertising device. No. 1,132,981; Mar. 23; Gaz. vol. 212; p. 1231.
- Seitz, Charles W., Wallace, Kans. Extensible car-step. No. 1,129,238; Feb. 23; Gaz. vol. 211; p. 1025.
- Seitz, Edward, Peoria, Ill. Lighting apparatus. No. 1,140,405; May 25; Gaz. vol. 214; p. 1052.
- Seitz, Edward, Peoria, Ill. Pressure-tank for vapor-lamp systems. No. 1,155,622; Oct. 5; Gaz. vol. 219; p. 102.
- Seitz, Frederick A., Newark, N. J. Internal-combustion engine. No. 1,165,135; Dec. 21; Gaz. vol. 221; p. 927.
- Seitz, George F., Philadelphia, Pa. Printer's furniture. No. 1,149,957; Aug. 10; Gaz. vol. 217; p. 630.
- Seitz, Martin, St. Louis, Mo. Bowling-alley accessory. No. 1,139,588; May 18; Gaz. vol. 214; p. 729.
- Seitz, Theodore F., Sullivan, Ind. Boring-machine. No. 1,147,898; July 27; Gaz. vol. 216; p. 1090.
- Selvert, Michael V., Elkon, S. D. Wrench. No. 1,157,427; Oct. 19; Gaz. vol. 219; p. 793.
- Selander, Gustaf. (See Radlein and Selander.)
- Selb, John. (See Abramowitz, Joseph, assignor.)
- Selby, George M., Millwall, London, England. Connection with duplex or multiple arrangement of torpedo-nets for facilitating the manipulation or brailing thereof. No. 1,145,806; July 6; Gaz. vol. 216; p. 290.
- Selby, Grant, Fletcher, Okla. Container for railway-signals. No. 1,162,951; Dec. 7; Gaz. vol. 221; p. 75.
- Seldal, Jörgen G. (See Kochmann and Seldal.)
- Seldomridge, Charles B., et al. (See Templeton, William G., assignor.)
- Seldomridge, Harry H., et al. (See Templeton, William G., assignor.)
- Soley, Charles A., Chicago, Ill., assignor to Kerner Manufacturing Company, Pittsburgh, Pa. Stay-bolt. No. 1,165,456; Dec. 28; Gaz. vol. 221; p. 1076.
- Self, Major D., Bessemer, and J. O. Willingham, Brighton, Ala. Puncture-detector for inner tubes for tires. No. 1,148,933; Aug. 3; Gaz. vol. 217; p. 159.
- Self-Raising Seat Appliance Company. (See Eisner, Samuel M., assignor.)
- Selfridge, Duncan I., Washington, D. C. Demountable rim and securing means therefor. No. 1,127,813; Feb. 9; Gaz. vol. 211; p. 445.
- Selfridge Holding Company. (See Selfridge, James R., assignor.)
- Selfridge, James R., assignor to Selfridge Holding Company, San Francisco, Cal. Form for concrete. No. 1,163,375; Dec. 7; Gaz. vol. 221; p. 225.
- Selfridge, James R., assignor to Selfridge Holding Company, San Francisco, Cal. Form for concrete. No. 1,163,376; Dec. 7; Gaz. vol. 221; p. 225.
- Selfridge, James R., assignor to Selfridge Holding Company, San Francisco, Cal. Concrete-plate form. No. 1,163,377; Dec. 7; Gaz. vol. 221; p. 225.
- Selfridge, James R., assignor to Selfridge Holding Company, San Francisco, Cal. Spiral-tube-winding machine. No. 1,164,878; Dec. 21; Gaz. vol. 221; p. 835.
- Seligmann, Henry, assignor to Continental-Licht- und Apparatebau-Gesellschaft m. b. H., Frankfurt-on-the-Main, Germany. Lamp for liquid hydrocarbons. No. 1,146,352; July 13; Gaz. vol. 216; p. 501.
- Selk, Herman J., Spokane, Wash. Locking device. No. 1,160,535; Nov. 16; Gaz. vol. 220; p. 832.
- Selke, Willy, Berlin, Germany. Apparatus for plastically reproducing an object. No. 1,142,733; June 8; Gaz. vol. 215; p. 611.
- Selke, Willy, Berlin, Germany. Apparatus for plastically reproducing objects. No. 1,155,010; Sept. 28; Gaz. vol. 218; p. 1024.
- Selke, Willy, Berlin, Germany. Plastically reproducing objects. No. 1,155,011; Sept. 28; Gaz. vol. 218; p. 1024.
- Sell, Hattie H., Gilbertsville, Pa. Clothes-pin. No. 1,141,728; June 1; Gaz. vol. 215; p. 227.
- Sellers, Rufus B., Obion county, Tenn. Stove. No. 1,143,079; June 15; Gaz. vol. 215; p. 775.
- Selleck, Theodore G., assignor of one-half to J. L. Deppen, Chicago, Ill. Tool-handle fastening. No. 1,157,593; Oct. 19; Gaz. vol. 219; p. 846.
- Selleck, Theodore G., assignor of one-half to J. L. Deppen, Chicago, Ill. Bench-plane. No. 1,157,594; Oct. 19; Gaz. vol. 219; p. 846.
- Selleck, William A. (See McLain, Finis H., assignor.)
- Sellers, Charles H., Eugene, Oreg. Nut-lock. No. 1,154,813; Sept. 28; Gaz. vol. 218; p. 957.
- Sellers, William F., assignor to Edge Moor Iron Company, Edgemoor, Del. Boiler water-back. No. 1,148,543; Aug. 3; Gaz. vol. 217; p. 21.
- Sellers, William F., assignor to Edge Moor Iron Company, Edgemoor, Del. Boiler construction. No. 1,148,544; Aug. 3; Gaz. vol. 217; p. 21.
- Sellman, Joseph, Louisville, Ky. Cam mechanism. No. 1,166,089; Dec. 28; Gaz. vol. 221; p. 1296.
- Sells, Edna L., Chicago, Ill. Ironing-board. No. 1,136,445; Apr. 20; Gaz. vol. 213; p. 920.
- Sells, William H., Buffalo, N. Y. Corn-husker. No. 1,147,756; July 27; Gaz. vol. 216; p. 1040.
- Sels, Martinus T., Knoxville, Iowa. Hen's nest. No. 1,149,544; Aug. 10; Gaz. vol. 217; p. 479.
- Seltenreich, John J., Chicago, Ill., assignor to National Chemical Company, Syracuse, N. Y. Clothes-dampening machine. No. 1,134,702; Apr. 6; Gaz. vol. 213; p. 226.
- Seltenreich, John J., Chicago, Ill., assignor to National Chemical Company, Syracuse, N. Y. Collar-forming machine. No. 1,157,329; Oct. 19; Gaz. vol. 219; p. 756.
- Seltmann, Hermann, Pottstown, Pa. Junior foot-rest. No. 1,164,127; Dec. 14; Gaz. vol. 221; p. 533.
- Seltnier, Peter, et al. (See Minnie, Charles A., assignor.)
- Seltzer, John E., Flint, Mich. Hot-air heating system. No. 1,134,703; Apr. 6; Gaz. vol. 213; p. 227.
- Seltzer, William H., Philadelphia, Pa. Automatic coupling device for ferries. No. 1,154,133; Sept. 21; Gaz. vol. 218; p. 696.
- Selzer, Daniel F. (See Atwater and Selzer.)
- Selzer, Michel J., Akron, Ohio. Wheel-rim. No. 1,161,348; Nov. 23; Gaz. vol. 220; p. 1168.
- Sembach, Albrecht. (See Schoder and Sembach.)
- Semendinger, Arthur A., New York, N. Y. Fly paper holder and trap. No. 1,159,118; Nov. 9; Gaz. vol. 220; p. 491.
- Semerak, William A., Chicago, Ill. Roller-mounting for windows. No. 1,162,407; Nov. 30; Gaz. vol. 220; p. 1582.
- Semet-Solvay Company. (See Graul, Carl L. O., assignor.)
- Semet-Solvay Company. (See Hilleke, August F., assignor.)
- Semet-Solvay Company. (See Steere, Frank W., assignor.)
- Semmig, Arthur, White Plains, N. Y. Shock-absorber for vehicles. No. 1,138,017; May 4; Gaz. vol. 214; p. 102.
- Semmler, Carl, Wiesbaden, Germany. Method of and apparatus for recovering the heat of slags. No. 1,146,962; July 20; Gaz. vol. 216; p. 736.

- Semmler, Carl, Wiesbaden, Germany. Recovering the waste heat of smelters and kindred plants. No. 1,151,831; Aug. 31; Gaz. vol. 217; p. 1443.
- Semmler, Carl, Wiesbaden, Germany. Apparatus for utilizing the heat of coke-cakes. No. 1,153,453; Sept. 14; Gaz. vol. 218; p. 424.
- Semonof, Wolf, Providence, R. I. Tailor's grading system and device therefor. No. 1,144,071; June 22; Gaz. vol. 215; p. 1144.
- Semple, John B. (See Cushing, Samuel D., assignor.)
- Semple, John B., Sewickley, Pa. Projectile. No. 1,131,164; Mar. 9; Gaz. vol. 212; p. 492.
- Semple, William S. (See Greening, Granville F., assignor.)
- Semradek, Frank J. (See Baughman and Semradek.)
- Sendingling, Martin L., Jersey City, N. J. Power-transmission mechanism for automobiles. No. 1,128,064; Feb. 9; Gaz. vol. 211; p. 531.
- Seneca Camera Manufacturing Company. (See Goddard, Joseph, assignor.)
- Seneca Camera Manufacturing Company. (See Goddard and Hutchings, assignors.)
- Seneca Falls Mfg. Co., The. (See Runge, William, assignor.)
- Senfer, Charles, Cleveland, Ohio. Vehicle. No. 1,164,228; Dec. 14; Gaz. vol. 221; p. 565.
- Senfftleben, Harry, Clamart, France. Submarine mine. No. 1,152,559; Sept. 7; Gaz. vol. 218; p. 66.
- Seng Company, The. (See Dyke, Darrell F., assignor.)
- Seng Company, The. (See Seng, Wendelin P., assignor.)
- Seng, Wendelin P., Chicago, Ill. Circuit-controlling device. No. 1,134,355; Apr. 6; Gaz. vol. 213; p. 99.
- Seng, Wendelin P., Chicago, Ill. Circuit-closer for motor-vehicle electric horns. No. 1,134,356; Apr. 6; Gaz. vol. 213; p. 100.
- Seng, Wendelin P., assignor to The Seng Company, Chicago, Ill. Folding end section for beds. No. 1,126,303; Jan. 26; Gaz. vol. 210; p. 1211.
- Seng, Wendelin P., and J. Kaitcock, assignors to J. Kramer, Chicago, Ill. Revolving-seat davenport. No. 1,135,930; Apr. 13; Gaz. vol. 213; p. 695.
- Seng, Wendelin P., and D. F. Dyke, assignors to Davoplane Bed Company, Chicago, Ill. Sofa-bed. No. 1,136,173; Apr. 20; Gaz. vol. 213; p. 822.
- Senger, Emil, and R. Sauter, London, England. Marine mine. No. 1,154,272; Sept. 21; Gaz. vol. 218; p. 743.
- Sengstock, August E., Detroit, Mich. Film-reel holder. No. 1,153,963; Sept. 21; Gaz. vol. 218; p. 637.
- Senior, Karop D., Boston, Mass. Indicator-lock. No. 1,146,737; July 13; Gaz. vol. 216; p. 636.
- Seniuk, John, Coyne, Pa. Foldable stretcher. No. 1,136,174; Apr. 20; Gaz. vol. 213; p. 822.
- Senn, Edward, assignor to Senn Pressed Steel Hoe and Tool Company, Birmingham, Ala. Hoe. No. 1,129,052; Feb. 16; Gaz. vol. 211; p. 926.
- Senn, Heinrich. (See Leuenberger and Senn.)
- Senn, Karl, Alameda, Cal. Combined batea, jig, and panning concentrator. No. 1,141,419; June 1; Gaz. vol. 215; p. 120.
- Senn Pressed Steel Hoe and Tool Company. (See Bruce, Avery C., assignor.)
- Senn Pressed Steel Hoe and Tool Company. (See Senn, Edward, assignor.)
- Senna, Samuel N., assignor of one-half to C. E. Torrance, Holyoke, Mass. Attachment for fabric-tensile-strength testers. No. 1,166,266; Dec. 28; Gaz. vol. 221; p. 1364.
- Senné, Camillus, New York, N. Y. Gummed-tape machine. No. 1,126,578; Jan. 26; Gaz. vol. 210; p. 1312.
- Sennett, Leonidas, Russell, Ky., assignor of one-half to J. E. Rice, Richmond, Va. Valve. No. 1,164,879; Dec. 21; Gaz. vol. 221; p. 835.
- Sensenich, Chester D., assignor to Irwin Foundry & Mfg. Car Company, Irwin, Pa. Self-oiling wheel. No. 1,141,586; June 1; Gaz. vol. 215; p. 178.
- Senter, Charles A., et al. (See Markham, Andrew J., assignor.)
- Senter, Ralph T., Philadelphia, Pa., assignor to The Near Side Car Company, New York, N. Y. Passenger-vehicle. No. 1,125,192; Jan. 19; Gaz. vol. 210; p. 780.
- Senter, Ralph T., Philadelphia, Pa., assignor to The Near Side Car Company, New York, N. Y. Passenger-vehicle. No. 1,130,026; Mar. 2; Gaz. vol. 212; p. 64.
- Sentinel Automatic Gas Appliance Co., The. (See Phillips, Ross M. G., assignor.)
- Sentinel Mfg. Co., The. (See Coes, Harold V., assignor.)
- Sentinel Mfg. Co., The. (See Gibney, Joseph W., assignor.)
- Sentinel Mfg. Co., The. (See North and Gibney, assignors.)
- Sentinel Mfg. Co., The. (See Phillips, Ross M. G., assignor.)
- Senton, Moritz S., New Orleans, La. Coupon certificate of deposit. No. 1,141,838; June 1; Gaz. vol. 215; p. 262.
- Seppi, Louis A. (See Newman and Seppi.)
- Seppo, James, Nashua, Minn. Fish-screen. No. 1,132,041; Mar. 16; Gaz. vol. 212; p. 837.
- Seramor, Arthur P., assignor to Emerson-Brantingham Company, Rockford, Ill. Carriage-top. No. 1,152,662; Sept. 7; Gaz. vol. 218; p. 104.
- Serena, Harry H., McKeesport, Pa. Combined window-shade bracket and curtain-pole holder. No. 1,127,529; Feb. 9; Gaz. vol. 211; p. 343.
- Séréville, Léon L. de, Paris, France. Machine for making network with square meshes. No. 1,144,733; June 29; Gaz. vol. 215; p. 1402.
- Sergeant, Walter S. (See Chew and Sergeant.)
- Sergeeff, George, Philadelphia, Pa. Cartridge-holder. No. 1,137,543; Apr. 27; Gaz. vol. 213; p. 1348.
- Serio, Peter J., Birmingham, Ala. Die for macaroni and thick fluid substances. No. 1,126,098; Jan. 26; Gaz. vol. 210; p. 1137.
- Sermon, Robert C., Duluth, Minn. Tank-heater. No. 1,127,926; Feb. 9; Gaz. vol. 211; p. 484.
- Sermon, Robert C., West Duluth, Minn. Blow-off valve. No. 1,133,188; Mar. 23; Gaz. vol. 212; p. 1305.
- Serpek, Ottokar, assignor to Société Générale des Nitrures, Paris, France. Fixing nitrogen. No. 1,155,840; Oct. 5; Gaz. vol. 219; p. 181.
- Serrell, John A., North Plainfield, N. J. System of steam-heating. No. 1,152,560; Sept. 7; Gaz. vol. 218; p. 67.
- Serrell, Lemuel W., Plainfield, N. J. Clothes-washer. No. 1,132,982; Mar. 23; Gaz. vol. 212; p. 1231.
- Serrell, Lemuel W., Plainfield, N. J. Fire-extinguisher. No. 1,150,634; Aug. 17; Gaz. vol. 217; p. 929.
- Serrell, Lemuel W., Plainfield, N. J. Washing device. No. 1,151,832; Aug. 31; Gaz. vol. 217; p. 1444.
- Serrill, William J., Haverford, assignor to The United Gas Improvement Company, Philadelphia, Pa. Gas-broiler. No. 1,140,338; May 18; Gaz. vol. 214; p. 993.
- Serry, Lawrence H., Canon City, Colo. Greasing-vent. No. 1,148,545; Aug. 3; Gaz. vol. 217; p. 22.
- Servatius, Michael F., Chicago, Ill. Meat-curing machine. No. 1,126,570; Jan. 26; Gaz. vol. 210; p. 1313.
- Service, William F., Jersey City, assignor to Imperial Car Cleaner Company, Newark, N. J. Apparatus for treating car-cushions or the like. No. 1,143,080; June 15; Gaz. vol. 215; p. 776.
- Session, Hezikiah. (See Gray, Walter, assignor.)
- Sessions Clock Company, The. (See Stephenson, Thomas B., assignor.)
- Sessions Clock Company, The. (See Whittemore and Warner, assignors.)
- Sessions, Edson O., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Cable-supporting insulator. No. 1,125,742; Jan. 19; Gaz. vol. 210; p. 977.
- Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Electric locomotive. No. 1,123,602; Jan. 5; Gaz. vol. 210; p. 138.
- Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Electric motor. No. 1,130,547; Mar. 2; Gaz. vol. 212; p. 249.
- Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Locomotive. No. 1,132,799; Mar. 23; Gaz. vol. 212; p. 1164.
- Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining-machine. No. 1,132,800; Mar. 23; Gaz. vol. 212; p. 1164.
- Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Cable-reeling mechanism. No. 1,135,468; Apr. 13; Gaz. vol. 213; p. 533.
- Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Locomotive with cable-reeling mechanism. No. 1,137,236; Apr. 27; Gaz. vol. 213; p. 1240.
- Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Winding mechanism. No. 1,137,237; Apr. 27; Gaz. vol. 213; p. 1240.
- Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Locomotive with haulage mechanism. No. 1,139,810; May 18; Gaz. vol. 214; p. 808.
- Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining-machine. No. 1,143,144; June 15; Gaz. vol. 215; p. 797.
- Sessions, Frank L., and D. T. Fisher, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Cable-reeling mechanism for electric locomotives. No. 1,132,740; Mar. 23; Gaz. vol. 212; p. 1141.
- Sessler, Leonhardt, Bottenweiler, near Zumbach, Germany. Front frame for cultivators. No. 1,161,163; Nov. 23; Gaz. vol. 220; p. 1101.
- Setchell, George C., Cranston, R. I. Trellis. No. 1,127,530; Feb. 9; Gaz. vol. 211; p. 344.
- Setter, Michael, Chicago, Ill. Piston-ring. No. 1,130,811; May 18; Gaz. vol. 214; p. 809.
- Setter, Michael, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Electrical device. No. 1,161,010; Nov. 16; Gaz. vol. 220; p. 1002.
- Settergren, Bernhard, Chicago, Ill., assignor to M. C. Merker, New York, N. Y. Differential antiskidding driving mechanism. No. 1,141,839; June 1; Gaz. vol. 215; p. 262.
- Seth Thomas Clock Co. (See Wehrle, Frank X., assignor.)
- Sether, Edward M. (See Hensley and Sether.)
- Settle, C. M. (See Holland, James H., assignor.)
- Settle, Francis M., Wynne Wood, Okla. Road-leveler. No. 1,153,452; Sept. 14; Gaz. vol. 218; p. 424.
- Settle, Walter A. (See Thornton and Settle.)
- Setz, Hans R., St. Louis, assignor to Fulton Iron Works, St. Louis county, Mo. Fuel-pump for internal-combustion engines. No. 1,123,815; Jan. 5; Gaz. vol. 210; p. 211.

Alphabetical list of patentees—Continued.

- Setzer, Richard, assignor of one-half to E. Wytenbach, Valley City, N. D. Self-shocker. No. 1,150,070; Aug. 17; Gaz. vol. 217; p. 730.
- Seufferle, Ella E. (See Burgess, George A., assignor.)
- Sevebeck, Otto C. (See Bennett and Sevebeck.)
- Severa, Joseph, Battle Creek, Mich. Mechanical starting mechanism for internal-combustion engines. No. 1,155,687; Oct. 5; Gaz. vol. 219; p. 126.
- Severance, Edwin P. (See Tucker, Frank S., assignor.)
- Severance, William E., Hoboken, assignor of one-half to D. Hartley, Newark, N. J. Lathe. No. 1,139,235; May 11; Gaz. vol. 214; p. 570.
- Severin, Frank W., Chicago, and H. F. Bock, Antioch, assignors to Venn-Severin Machine Co., Chicago, Ill. Internal-combustion engine. No. 1,123,406; Jan. 5; Gaz. vol. 210; p. 72.
- Severin, John J., Barnesboro, Pa. Resilient wheel. No. 1,133,323; Mar. 30; Gaz. vol. 212; p. 1387.
- Severin, Ludwig, Hagen, Germany. Device for securing bells, globes, chimneys, or the like to lamps. No. 1,154,064; Sept. 21; Gaz. vol. 218; p. 673.
- Severns, William, Chicago, Ill. Handle-attaching means for mops. No. 1,134,915; Apr. 6; Gaz. vol. 213; p. 296.
- Severson, Knute J., Barnesville, Minn. Potato-digger. No. 1,143,446; June 15; Gaz. vol. 215; p. 905.
- Severy Manufacturing Company. (See Severy, Melvin L., assignor.)
- Severy Manufacturing Company. (See Severy and Scuterud, assignors.)
- Severy, Melvin L., Arlington Heights, Mass. Orthopedic device. No. 1,129,525; Feb. 23; Gaz. vol. 211; p. 1126.
- Severy, Melvin L., Arlington Heights, Mass. Synchronizer. No. 1,163,473; Dec. 7; Gaz. vol. 221; p. 258.
- Severy, Melvin L., Arlington Heights, assignor to Severy Manufacturing Company, Boston, Mass. Means of attaching soles and heels. No. 1,126,099; Jan. 26; Gaz. vol. 210; p. 1138.
- Severy, Melvin L., Arlington Heights, assignor to Severy Manufacturing Company, Boston, Mass. Expandible pulley. No. 1,126,100; Jan. 26; Gaz. vol. 210; p. 1138.
- Severy, Melvin L., Arlington Heights, assignor to Severy Manufacturing Company, Boston, Mass. Expandible pulley. No. 1,132,125; Mar. 16; Gaz. vol. 212; p. 868.
- Severy, Melvin L., Arlington Heights, assignor to Severy Manufacturing Company, Boston, Mass. Friction driving mechanism. No. 1,135,628; Apr. 13; Gaz. vol. 213; p. 591.
- Severy, Melvin L., Arlington Heights, assignor to Severy Manufacturing Company, Boston, Mass. Power-transmitting device. No. 1,136,279; Apr. 20; Gaz. vol. 213; p. 859.
- Severy Melvin L., Arlington Heights, assignor to Severy Manufacturing Company, Boston, Mass. Power-transmission mechanism. No. 1,136,280; Apr. 20; Gaz. vol. 213; p. 860.
- Severy, Melvin L., Arlington Heights, assignor to Choralcelo Company, Boston, Mass. Sonorous body and making the same. No. 1,144,435; June 29; Gaz. vol. 215; p. 1301.
- Severy, Melvin L., Arlington Heights, and G. B. Sinclair, Medford, Mass. Expression control for electric musical instruments. No. 1,125,746; Jan. 19; Gaz. vol. 210; p. 978.
- Severy, Melvin L., Arlington Heights, and G. B. Sinclair, Medford, Mass. Tone-producing means. No. 1,137,544; Apr. 27; Gaz. vol. 213; p. 1348.
- Severy, Melvin L., Arlington Heights, and G. B. Sinclair, Winthrop, assignors to Choralcelo Company, Boston, Mass. Expression device for musical instruments. No. 1,156,321; Oct. 12; Gaz. vol. 219; p. 368.
- Severy, Melvin L., Arlington Heights, and G. B. Sinclair, assignors to Choralcelo Company, Boston, Mass. Electric governor. No. 1,161,349; Nov. 23; Gaz. vol. 220; p. 1169.
- Severy, Melvin L., Arlington Heights, and G. B. Sinclair, Winthrop, Mass., assignors to Choralcelo Manufacturing Company, Centrifugal switch. No. 1,163,040; Dec. 7; Gaz. vol. 221; p. 107.
- Severy, Melvin L., and M. Scuterud, Arlington Heights, assignors to Severy Manufacturing Company, Boston, Mass. Power-transmission mechanism. No. 1,126,101; Jan. 26; Gaz. vol. 210; p. 1138.
- Severy, Melvin L., and M. Scuterud, Arlington Heights, assignors to Severy Manufacturing Company, Boston, Mass. Power-transmission mechanism. No. 1,126,102; Jan. 26; Gaz. vol. 210; p. 1139.
- Séviigné, Henri A., Winthrop, and T. B. Dooley, Chelsea; said Dooley assignor to B. A. Ball, Boston, Mass. Package and making the same. No. 1,131,561; Mar. 9; Gaz. vol. 212; p. 629.
- Sevlson, Frank, Muncy, Pa. Tire-tool. No. 1,154,442; Sept. 21; Gaz. vol. 218; p. 802.
- Sewage Syndicate Limited, The. (See Orten-Böving, Jens, assignor.)
- Sewall, Minott W., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-furnace. No. 1,136,175; Apr. 20; Gaz. vol. 213; p. 823.
- Sewall, Minott W., deceased; S. E. Sewall, executrix, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler. No. 1,140,406; May 25; Gaz. vol. 214; p. 1053.
- Sewall, Minott W., deceased; S. E. Sewall, New York, N. Y., executrix, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler. No. 1,161,985; Nov. 30; Gaz. vol. 220; p. 1436.
- Sewall, Minott W., New York, N. Y., and D. S. Jacobus, Jersey City, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Tile for covering tubes. No. 1,129,813; Feb. 23; Gaz. vol. 211; p. 1051.
- Sewall, Robert H. F., assignor of one-half to S. F. Heaslip, New Orleans, La. Reinforced-concrete railway-tie. No. 1,131,562; Mar. 9; Gaz. vol. 212; p. 630.
- Sewall, Susann E., executrix. (See Sewall, Minott W.)
- Sewalt, Matthew E., Lovington, N. Mex. Wire-stretcher. No. 1,156,322; Oct. 12; Gaz. vol. 219; p. 369.
- Seward, Edward C., Jr., New York, N. Y., assignor to Eureka Tire Company, Trenton, N. J. Vehicle-tire. No. 1,165,630; Dec. 28; Gaz. vol. 221; p. 1137.
- Seward, Edward C., Jr., New York, N. Y., assignor to Eureka Tire Company, Trenton, N. J. Vehicle-tire. No. 1,165,631; Dec. 28; Gaz. vol. 221; p. 1137.
- Seward, Ernest R., assignor to Gisholt Machine Company, Madison, Wis. Lathe. No. 1,164,759; Dec. 21; Gaz. vol. 221; p. 793.
- Seward, George O. (See Von Kügelgen and Seward.)
- Seward, Harvey, assignor to Seward Trunk and Bag Company, Petersburg, Va. Wardrobe-trunk. No. 1,135,404; Apr. 13; Gaz. vol. 213; p. 510.
- Seward, Otis P., Fredericksburg, Va. Shade-bracket. No. 1,130,848; Mar. 9; Gaz. vol. 212; p. 385.
- Seward Trunk and Bag Company. (See Seward, Harvey, assignor.)
- Sewell, Albert L., Lamar, Mo. Life-boat. No. 1,124,341; Jan. 12; Gaz. vol. 210; p. 440.
- Sewell, B. F. Brooke. (See Legg and Rlerig, assignors.)
- Sewell, Burton G., Colfax, Iowa. Gate-operating means. No. 1,165,544; Dec. 28; Gaz. vol. 221; p. 1105.
- Sewell, James P. (See Harper, Charles P., assignor.)
- Sexton, Earl, Hartford, Conn. Hotbed-sprinkler system. No. 1,164,128; Dec. 14; Gaz. vol. 221; p. 533.
- Sexton, Michael F., Stuart, Iowa. Pencil-holder. No. 1,163,866; Dec. 14; Gaz. vol. 221; p. 442.
- Sexton, Roy W., Wytheville, Va. Button-hole-strip. No. 1,132,397; Mar. 16; Gaz. vol. 212; p. 967.
- Sexton, William A., Newton, Mass. Automatic poultry-feeder. No. 1,141,981; June 8; Gaz. vol. 215; p. 349.
- Sexton, William A., Newton, Mass. Internally-protected sheet-metal receptacle. No. 1,161,164; Nov. 23; Gaz. vol. 220; p. 1101.
- Sey, Maud M., Greenbush, Mich. Skirt-supporter. No. 1,160,536; Nov. 16; Gaz. vol. 220; p. 832.
- Seybert, Andrew J., East Brady, Pa. Wrench. No. 1,155,841; Oct. 5; Gaz. vol. 219; p. 181.
- Seybert, Charles R., Syracuse, N. Y. Ice-creeper. No. 1,140,075; May 18; Gaz. vol. 214; p. 903.
- Seybold, Charles, Dayton, Ohio. Paper-cutting machine. No. 1,132,626; Mar. 23; Gaz. vol. 212; p. 1099.
- Seybold, Christian, and H. Dehm, Düren, Germany. Rotary knitter with deeply-immersed screening-drum for paper-making. No. 1,153,579; Sept. 14; Gaz. vol. 218; p. 470.
- Seybold, Georg, Charlottenburg, assignor to Siemens-Schuckert Werke, G. m. b. H., Berlin, Germany. Stamping-press. No. 1,132,689; Mar. 23; Gaz. vol. 212; p. 1122.
- Seyler, Carl P., et al. (See Judick, Richard W., assignor.)
- Seyler, Carl P. (See McCracken, Isaac E., assignor.)
- Seyler, Carl P., Pittsburgh, Pa. Insulator-supporting structure. No. 1,147,757; July 27; Gaz. vol. 216; p. 1040.
- Seymour, Arthur J., Minneapolis, Minn. Indicating system for telephone pay-stations. No. 1,166,090; Dec. 28; Gaz. vol. 221; p. 1296.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,124,667; Jan. 12; Gaz. vol. 210; p. 559.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Loop-rocker for sewing-machines. No. 1,135,405; Apr. 13; Gaz. vol. 213; p. 511.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing-machines. No. 1,135,406; Apr. 13; Gaz. vol. 213; p. 511.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,137,797; May 4; Gaz. vol. 214; p. 26.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,144,797; June 29; Gaz. vol. 215; p. 1424.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Puller-machine. No. 1,145,619; July 6; Gaz. vol. 216; p. 224.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,145,620; July 6; Gaz. vol. 216; p. 224.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Differential feeding mechanism. No. 1,147,047; July 20; Gaz. vol. 216; p. 765.

Alphabetical list of patentees—Continued.

- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Mechanism for raising the needle-bar. No. 1,158,313; Oct. 26; Gaz. vol. 219; p. 1163.
- Seymour, Dudley S., assignor to Union Special Machine Company, Chicago, Ill. Thread-controller for sewing-machines. No. 1,147,048; July 20; Gaz. vol. 216; p. 766.
- Seymour, Francis, Paterson, N. J. Machine for doubling, twisting, and quilling. No. 1,146,027; July 13; Gaz. vol. 216; p. 389.
- Seymour, James M., Jr., Newark, N. J. Air cooling and filtering device. No. 1,130,849; Mar. 9; Gaz. vol. 212; p. 385.
- Seymour Metal Goods Company, The. (See Hancock, William A., assignor.)
- Seymour, Ralph C. (See Goss and Seymour.)
- Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Sheet-handling machine. No. 1,165,911; Dec. 28; Gaz. vol. 221; p. 1234.
- Sgritta, Alfonso, Brooklyn, N. Y. Attachment for indicating changes in liquid-levels. No. 1,130,548; Mar. 2; Gaz. vol. 212; p. 249.
- Shaal, Robert C., Port Chester, N. Y., assignor to Safety Car Heating and Lighting Company, Lamp. No. 1,138,984; May 11; Gaz. vol. 214; p. 482.
- Shackelford, Orle, Fairmont, W. Va. Artificial incubation. No. 1,156,374; Oct. 12; Gaz. vol. 219; p. 390.
- Shackey, James B., San Francisco, Cal. Abrasive amalgamating-mill. No. 1,161,418; Nov. 23; Gaz. vol. 220; p. 1194.
- Shackelford, Charles J., Nelson, Mo. Vehicle-wheel. No. 1,158,314; Oct. 26; Gaz. vol. 219; p. 1164.
- Shackleton, George W., Braithwaite, Keighley, assignor to G. Hattersley and Sons, Limited, Keighley, England. Picking or shuttle-actuating mechanism for looms. No. 1,164,129; Dec. 14; Gaz. vol. 221; p. 534.
- Shackleton, Herbert. (See Shackleton, Sugden and H.)
- Shackleton, Sugden and H., Malis Mount, assignors to P. Smith & Son, Keighley, England. Spinning, twisting, and analogous machine. No. 1,164,412; Dec. 14; Gaz. vol. 221; p. 632.
- Shadbolt, William O., New York, N. Y. Fifth-wheel for vehicles. No. 1,136,176; Apr. 20; Gaz. vol. 213; p. 823.
- Shadbolt, William O., New York, N. Y. Axle and axle-box. No. 1,148,339; July 27; Gaz. vol. 216; p. 1248.
- Shadbolt, William O., New York, N. Y. Fifth-wheel for vehicles. No. 1,155,623; Oct. 5; Gaz. vol. 219; p. 103.
- Shadid, Mike, Peoria, Ill. Match-ignition composition. No. 1,153,525; Sept. 14; Gaz. vol. 218; p. 451.
- Shadley, Jay B., Danville, Ill. Trap. No. 1,155,842; Oct. 5; Gaz. vol. 219; p. 181.
- Shado-Lite Manufacturing Co. (See McPherson, Frank G., assignor.)
- Shaffer, Norman J., Woodward, Iowa. Planter. No. 1,143,733; June 22; Gaz. vol. 215; p. 1025.
- Shafer, Frederick C., assignor to Keeler Brass Company, Grand Rapids, Mich. Combined lock and latch. No. 1,152,124; Aug. 31; Gaz. vol. 217; p. 1544.
- Shafer, Howard S., Nazareth, Pa. Advertising device. No. 1,139,812; May 18; Gaz. vol. 214; p. 809.
- Shafer, Jesse O., assignor to The Geo. W. Grimes Company, Bluffton, Ind. Pump transmission mechanism. No. 1,135,060; Apr. 13; Gaz. vol. 213; p. 394.
- Shafer, Jesse O., assignor to The George W. Grimes Company, Bluffton, Ind. Band-wheel-supporting means. No. 1,145,621; July 6; Gaz. vol. 216; p. 225.
- Shafer, John F., Adeline, Ill. Vehicle and auto tire. No. 1,140,191; May 18; Gaz. vol. 214; p. 943.
- Shafer, Julius E., Chicago, Ill. Roller-bearing. No. 1,152,663; Sept. 7; Gaz. vol. 218; p. 105.
- Shafer, Stewart, Idaville, Ind. Gasoline cut-off for automobiles. No. 1,130,027; Mar. 2; Gaz. vol. 212; p. 65.
- Shaffer, Andrew M. (See Shaffer, Glenn R. and A. M.)
- Shaffer, Elmer E., Tulsa, Okla. Shoe for drilling oil-wells. No. 1,163,867; Dec. 14; Gaz. vol. 221; p. 442.
- Shaffer, Elmer E., Tulsa, Okla. Horn-socket for oil and gas wells. No. 1,166,010; Dec. 28; Gaz. vol. 221; p. 1269.
- Shaffer, Elmer E., Tulsa, Okla. Method and apparatus for drilling oil and gas wells. No. 1,166,011; Dec. 28; Gaz. vol. 221; p. 1269.
- Shaffer, Frank, Everett, Wash., assignor to American Can Company, Canning. No. 1,162,520; Nov. 30; Gaz. vol. 220; p. 1622.
- Shaffer, Fred K., assignor to The Shaffer Motor Company, Sedalia, Mo. Gas-engine. No. 1,160,113; Nov. 9; Gaz. vol. 220; p. 631.
- Shaffer, Fred S., Sines, Md. Street-sweeping machine. No. 1,151,408; Aug. 24; Gaz. vol. 217; p. 1249.
- Shaffer, Glenn R. and A. M., Big Run, Pa. Steam-boller filler. No. 1,162,408; Nov. 30; Gaz. vol. 220; p. 1582.
- Shaffer, Joseph V., and J. H. Reedy, assignors of one-third to A. O. Rolfe, Hamilton, Ohio. Pipe-swivel. No. 1,129,815; Feb. 23; Gaz. vol. 211; p. 1223.
- Shaffer Motor Company, The. (See Shaffer, Fred K., assignor.)
- Shaffer, Thomas, St. Joseph, Mo. Automobile lamp-shade. No. 1,123,938; Jan. 5; Gaz. vol. 210; p. 252.
- Shaffer, Thomas, St. Joseph, Mo. Automobile lamp reflector and shades combined. No. 1,123,939; Jan. 5; Gaz. vol. 210; p. 252.
- Shaffer, William J., Chattanooga, Okla. Cotton-harvester. No. 1,137,545; Apr. 27; Gaz. vol. 213; p. 1349.
- Shaffer, William L., Drummond, Minn. Stump-puller. No. 1,152,232; Aug. 31; Gaz. vol. 217; p. 1582.
- Shailor, Frank E. (See Kuhn and Shailor.)
- Shailor, Frank E., assignor to F. Kuhn, Detroit, Mich. Connector-plug for electrical instruments. No. 1,130,935; Mar. 9; Gaz. vol. 212; p. 415.
- Shainline, Joseph B. (See Shainline, William H. and J. B.)
- Shainline, William H., Norristown, Pa. Dyeing-machine. No. 1,129,128; Feb. 23; Gaz. vol. 211; p. 988.
- Shainline, William H. and J. B., Norristown, Pa. Steam-trap. No. 1,164,964; Dec. 21; Gaz. vol. 221; p. 865.
- Shakespeare, William, Jr., assignor to William Shakespeare, Jr., Company, Kalamazoo, Mich. Artificial ball or lure. No. 1,150,635; Aug. 17; Gaz. vol. 217; p. 930.
- Shakespeare, William, Jr., and W. Schmid, assignors to William Shakespeare Jr. Company, Kalamazoo, Mich. Carbureter. No. 1,129,129; Feb. 23; Gaz. vol. 211; p. 988.
- Shaler, Clarence A., Waupun, Wis. Vulcanizer. No. 1,158,315; Oct. 26; Gaz. vol. 219; p. 1164.
- Shallberg, Gustavaus, *et al.* (See Fanning, Charles E., assignor.)
- Shallcross, Wilmer M., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,136,621; Apr. 20; Gaz. vol. 213; p. 982.
- Shallenberger, Charles S. (See Crown, Westlake, and Shallenberger.)
- Shallenberger, Charles S. (See Westlake and Shallenberger.)
- Shanahan, Thomas F., Jersey City, N. J. Life-boat. No. 1,163,474; Dec. 7; Gaz. vol. 221; p. 258.
- Shanahan, John K. (See Brewer and Shanahan.)
- Shand, James, assignor to Joseph N. Smith & Company, Detroit, Mich. Latch. No. 1,165,912; Dec. 28; Gaz. vol. 221; p. 1234.
- Shane, Isaac N., Winfield, Kans. Flower-box. No. 1,142,634; June 8; Gaz. vol. 215; p. 580.
- Shaner, Benton L. (See Kelly and Shaner.)
- Shaner, Maconius, Bethlehem, Pa. Pneumatic hammer. No. 1,155,282; Sept. 28; Gaz. vol. 218; p. 1115.
- Shank, Jacob H., assignor of one-third to J. L. Jones, Crew, Va. Railway-rail. No. 1,152,233; Aug. 31; Gaz. vol. 217; p. 1582.
- Shank, John A. (See Stern, Walter F., assignor.)
- Shank, John E., assignor to Salem Foundry and Machine Works, Salem, Va. Gyrotory sifter. No. 1,128,729; Feb. 16; Gaz. vol. 211; p. 809.
- Shanklin, Benjamin M., Springfield, Mass. Transfer-punching device. No. 1,127,814; Feb. 9; Gaz. vol. 211; p. 445.
- Shanks, Jacob. (See Fry and Shanks.)
- Shanks, Jacob, assignor of one-half to I. Fry, St. Louis, Mo. Phonograph attachment for player-pianos. No. 1,130,550; Mar. 9; Gaz. vol. 212; p. 386.
- Shanks, John, Barrhead, Scotland. Ball-cock. No. 1,165,913; Dec. 28; Gaz. vol. 221; p. 1235.
- Shanley, James, and N. Gordon, Rochester, N. Y. Automobile light-signal. No. 1,129,740; Feb. 23; Gaz. vol. 211; p. 1198.
- Shann, Oscar A., Brooklyn, assignor to Western Electric Company, New York, N. Y. Plunger switch-key. No. 1,163,957; Dec. 14; Gaz. vol. 221; p. 473.
- Shannon, Charles R., Narrows, assignor of one-fourth to M. P. Farrier, Pearisburg, and one-fourth to F. D. Kelley, Narrows, Va. Band-brake. No. 1,141,014; May 25; Gaz. vol. 214; p. 1264.
- Shannon, Ellwood M., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Reverse-gear. No. 1,129,741; Feb. 23; Gaz. vol. 211; p. 1198.
- Shannon, James F., Farmville, Va. Grain-bag. No. 1,155,375; Oct. 5; Gaz. vol. 219; p. 17.
- Shannon, Leon T., assignor of two-fifths to A. P. Lewis and one-fifth to J. B. Jones, Reno, Nev. Rotary engine. No. 1,157,811; Oct. 26; Gaz. vol. 219; p. 986.
- Shannon, Oscar M., New York, N. Y. File-cabinet. No. 1,146,738; July 13; Gaz. vol. 216; p. 636.
- Shannon, Oscar M., New York, N. Y. File-cabinet. No. 1,146,739; July 13; Gaz. vol. 216; p. 637.
- Shannon, Robert L., assignor of one-half to E. McFarland, McKees Rocks, Pa. Guard for turning-machines. No. 1,156,559; Oct. 12; Gaz. vol. 219; p. 455.
- Shannon, Robert M., Salmon, Idaho. Spring-gun. No. 1,133,189; Mar. 23; Gaz. vol. 212; p. 1305.
- Shannon, Robert P., assignor to C. R. Barrett, Chicago, Ill. Flat-iron. No. 1,131,277; Mar. 9; Gaz. vol. 212; p. 532.
- Shannon, William, East Cleveland, Ohio. Automobile starting device. No. 1,123,940; Jan. 5; Gaz. vol. 210; p. 252.
- Shannon, William, East Cleveland, Ohio. Wrench-jaw. No. 1,149,788; Aug. 10; Gaz. vol. 217; p. 568.
- Shapera, Charles M. (See Shapera, Morris L. and C. M.)
- Shapera, Morris L. and C. M., Chicago, Ill. Cloth-piling machine. No. 1,131,467; Mar. 9; Gaz. vol. 212; p. 662.
- Shapiro, David H., Montreal, Quebec, Canada. Garment-form. No. 1,140,407; May 25; Gaz. vol. 214; p. 1053.

Alphabetical list of patentees—Continued.

- Shapiro, David H., Montreal, Quebec, Canada. Collapsible shipping-package. No. 1,141,076; May 25; Gaz. vol. 214; p. 1285.
- Shapland, George F., Salina, Kans. Cooking attachment for stoves. No. 1,155,519; Oct. 5; Gaz. vol. 219; p. 69.
- Shapley, Charles E., Auburn, N. Y. Faucet attachment for shower-baths. No. 1,146,353; July 13; Gaz. vol. 216; p. 501.
- Shapow, Sergei. (See Djandieri and Shapow.)
- Shappirio, Maurice. (See Shepard and Shappirio.)
- Sharon, James G., Quincy, Fla. Drinking-cup. No. 1,134,916; Apr. 6; Gaz. vol. 213; p. 297.
- Sharp, Charles E. (See Havens, Alonzo, assignor.)
- Sharp, Charles S., Auburn, N. Y., assignor to International Harvester Company of New Jersey. Harrow. No. 1,157,812; Oct. 26; Gaz. vol. 219; p. 986.
- Sharp, Clark E., Columbus, Ohio. Automatic trap-nest coop. No. 1,157,595; Oct. 19; Gaz. vol. 219; p. 846.
- Sharp, Columbus A., Chicago, Ill. Insole. No. 1,137,092; Apr. 27; Gaz. vol. 213; p. 1187.
- Sharp, Columbus A., Chicago, Ill. Boot and shoe. No. 1,157,330; Oct. 19; Gaz. vol. 219; p. 757.
- Sharp and Dohme. (See Winchester, Benjamin T., assignor.)
- Sharp, Edward, *et al.* (See Theberath, Joseph C., assignor.)
- Sharp, Harry M. V., *et al.* (See Stow, Percival E., assignor.)
- Sharp, Harry Q., Sonora, Tex. Float-valve. No. 1,146,599; July 13; Gaz. vol. 216; p. 590.
- Sharp, Henry F., South San Francisco, Cal. Oil-burner. No. 1,132,801; Mar. 23; Gaz. vol. 212; p. 1165.
- Sharp-Hughes Tool Company. (See Hughes, Howard R., assignor.)
- Sharp, James A., Springfield, Ohio, assignor to International Harvester Company of New Jersey. Harvester-reel. No. 1,152,768; Sept. 7; Gaz. vol. 218; p. 141.
- Sharp, Lee C. (See Rumpel, William J., assignor.)
- Sharp, Lee C., Plattsmouth, Nebr. Machine for making pastry shells. No. 1,151,298; Aug. 24; Gaz. vol. 217; p. 1214.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to Bremer & Bruckman, Brunswick, Germany. Can-body forming and soldering machine. No. 1,153,454; Sept. 14; Gaz. vol. 218; p. 425.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Combined flanging and heading machine. No. 1,154,661; Sept. 28; Gaz. vol. 218; p. 906.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Machine for making cylindrical can-bodies. No. 1,165,721; Dec. 28; Gaz. vol. 221; p. 1170.
- Sharp, Oscar, Grayville, Ill. Feeding device. No. 1,146,108; July 13; Gaz. vol. 216; p. 416.
- Sharp, Ralph C., Independence, Kans. Metal wagon-reach. No. 1,132,398; Mar. 16; Gaz. vol. 212; p. 907.
- Sharp, Robert S., assignor to National Tape Company, Inc., New York, N. Y. Holder for tape-wound cones and the like. No. 1,154,443; Sept. 21; Gaz. vol. 218; p. 802.
- Sharp, William E., assignor to Grip Nut Company, Chicago, Ill. Forming bolt-nuts. No. 1,154,134; Sept. 21; Gaz. vol. 218; p. 696.
- Sharp, William N., Chicago, Ill. Toilet article. No. 1,132,126; Mar. 16; Gaz. vol. 212; p. 868.
- Sharpe, George E., Steubenville, Ohio. Gas-heater. No. 1,148,057; July 27; Gaz. vol. 216; p. 1146.
- Sharpe, George E., Steubenville, Ohio. Gas-heater. No. 1,155,283; Sept. 28; Gaz. vol. 218; p. 1115.
- Sharpe, John D. (See Rice, Lewis A., assignor.)
- Sharpe, Joseph K., Jr., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 1,124,539; Jan. 12; Gaz. vol. 210; p. 512.
- Sharples, Alfred R., assignor to Electric Service Supplies Company, Philadelphia, Pa. Method of and apparatus for arresting electric currents. No. 1,133,671; Mar. 30; Gaz. vol. 212; p. 1515.
- Sharpley, Annie E., *et al.* (See Geary, Joseph F., assignor.)
- Sharpnack, Matthew C., Prescott, Ariz. Friction-clutch. No. 1,154,891; Sept. 28; Gaz. vol. 218; p. 982.
- Sharpnack, Frank A., and L. O. Gilliland, Chicago, Ill.; said Sharpnack assignor to said Gilliland. Internal-combustion engine. No. 1,140,292; May 18; Gaz. vol. 214; p. 976.
- Sharps, John A., Babylon, W. Va. Saw-set. No. 1,125,406; Jan. 19; Gaz. vol. 210; p. 858.
- Shartle, George W., Middletown, Ohio. Dumping-wagon. No. 1,158,571; Nov. 2; Gaz. vol. 220; p. 57.
- Shattuck, Burt E., assignor to Dow Surgical Battery Company, Boston, Mass. Beater or agitator. No. 1,141,420; June 1; Gaz. vol. 215; p. 120.
- Shattuck, Lemuel C. (See Blackburn and Shattuck.)
- Shaub, Charles O., Dayton, Ohio. Trolley-pole. No. 1,146,661; July 13; Gaz. vol. 216; p. 611.
- Shaules, John J., St. Paul, Minn. Fire-escape. No. 1,125,918; Jan. 19; Gaz. vol. 210; p. 1038.
- Shauli, James H., Charlotte, Mich. Automobile starting mechanism. No. 1,132,802; Mar. 23; Gaz. vol. 212; p. 1165.
- Shaver, Edwin, Solon Springs, Wis. Twine-alarm for harvesters. No. 1,148,195; July 27; Gaz. vol. 216; p. 1196.
- Shaver, Elizabeth, administratrix. (See Shaver, Theodore.)
- Shaver, James E., Jr., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Off-set-preventing device for stenciling-machines. No. 1,139,380; May 11; Gaz. vol. 214; p. 620.
- Shaver, Newton, Cleveland, Ohio. Traction-wheel. No. 1,145,518; July 6; Gaz. vol. 216; p. 190.
- Shaver, Theodore, deceased, Ireton, Iowa; E. Shaver, administratrix. Tank-heater. No. 1,154,065; Sept. 21; Gaz. vol. 218; p. 673.
- Shaver, William T., Des Moines, Iowa. Bolster-spring for vehicles. No. 1,135,213; Apr. 13; Gaz. vol. 213; p. 445.
- Shaw, A. B., Medford, Mass. Garden-rake. No. 1,146,287; July 13; Gaz. vol. 216; p. 479.
- Shaw, A. B., Medford, Mass. Gas-lighting device. No. 1,148,466; July 27; Gaz. vol. 216; p. 1290.
- Shaw, A. B., West Medford, assignor to Automatic Gas Lighting Equipment Co., Boston, Mass. Street-lamp. No. 1,140,192; May 18; Gaz. vol. 214; p. 944.
- Shaw, Allan D., and G. Wicks, Savanna, Ill.; said Shaw assignor to said Wicks. Bottle cleaning and polishing device. No. 1,144,734; June 29; Gaz. vol. 215; p. 1402.
- Shaw, Arthur E., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Lamp or light. No. 1,166,091; Dec. 28; Gaz. vol. 221; p. 1297.
- Shaw, Carl C., Palestine, Tex. Fire-box for boilers. No. 1,127,685; Feb. 9; Gaz. vol. 211; p. 395.
- Shaw, Edmund D., Syracuse, N. Y. Illuminated fender. No. 1,145,087; July 6; Gaz. vol. 216; p. 42.
- Shaw, Edward, London, England. Apparatus for evaporating or concentrating liquids. No. 1,164,413; Dec. 14; Gaz. vol. 221; p. 632.
- Shaw, Edward T., Pittsfield, Mass., assignor to General Electric Company. Control mechanism. No. 1,157,963; Oct. 26; Gaz. vol. 219; p. 1040.
- Shaw, Edward W., Brown Hill Mine, Kalgoorlie, Western Australia, Australia. Automatic check-valve. No. 1,136,840; Apr. 20; Gaz. vol. 213; p. 1060.
- Shaw, Edward W., Brown Hill Mine, Kalgoorlie, Western Australia, Australia. Full-way valve. No. 1,136,841; Apr. 20; Gaz. vol. 213; p. 1060.
- Shaw, Edwin C., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Vehicle wheel-rim. No. 1,141,496; June 1; Gaz. vol. 215; p. 146.
- Shaw, Elver H., Sedalia, Mo. Door-check. No. 1,135,061; Apr. 13; Gaz. vol. 213; p. 394.
- Shaw, Emmerson N., San Francisco, Cal. Crude-oil burner. No. 1,127,815; Feb. 9; Gaz. vol. 211; p. 445.
- Shaw, Fayette W., and D. Bortoff, Cleveland, Ohio. Lifting-jack. No. 1,127,294; Feb. 2; Gaz. vol. 211; p. 221.
- Shaw, Frances D., Chicago, Ill. Downdraft continuous kiln. No. 1,133,582; Mar. 30; Gaz. vol. 212; p. 1481.
- Shaw, Frances D., Chicago, Ill. Downdraft continuous kiln. No. 1,140,719; May 25; Gaz. vol. 214; p. 1160.
- Shaw, Frank, Syracuse, N. Y. Shaft-coupling. No. 1,140,855; May 25; Gaz. vol. 214; p. 1209.
- Shaw, Frank M., Edgewick, Wash., assignor to Aerial Tramway Company, Portland, Oreg. Logging system. No. 1,151,299; Aug. 24; Gaz. vol. 217; p. 1214.
- Shaw, Frederick A., Providence, R. I. Fire-prevention means for internal-combustion engines. No. 1,165,914; Dec. 28; Gaz. vol. 221; p. 1235.
- Shaw, George E., Cincinnati, Ohio. Hair-cleaning comb. No. 1,159,424; Nov. 9; Gaz. vol. 220; p. 386.
- Shaw, Grace E., Greenville, Me. Window-mop. No. 1,126,889; Feb. 2; Gaz. vol. 211; p. 79.
- Shaw, Harold E., Maywood, Ill. Rotary can-tipping machine. No. 1,156,634; Oct. 12; Gaz. vol. 219; p. 482.
- Shaw, James, Lodi, Cal. Internal-combustion engine. No. 1,142,851; June 15; Gaz. vol. 215; p. 693.
- Shaw, James, Lodi, Cal. Internal-combustion engine. No. 1,152,561; Sept. 7; Gaz. vol. 218; p. 67.
- Shaw, John A., Montreal, Quebec, Canada, assignor to Safety Car Heating & Lighting Company. Berth-lamp. No. 1,123,407; Jan. 5; Gaz. vol. 210; p. 72.
- Shaw, John A., West Mount, Montreal, Quebec, Canada. Globe-holder for electric, gas, and other lamps. No. 1,130,113; Mar. 2; Gaz. vol. 212; p. 94.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Door-check. No. 1,123,810; Jan. 5; Gaz. vol. 210; p. 209.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,798; May 4; Gaz. vol. 214; p. 26.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Night-latch. No. 1,137,800; May 4; Gaz. vol. 214; p. 27.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,801; May 4; Gaz. vol. 214; p. 28.
- Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Hotel-lock. No. 1,150,071; Aug. 17; Gaz. vol. 217; p. 731.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Indicator-lock. No. 1,152,443; Sept. 7; Gaz. vol. 218; p. 21.

- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Indicator-lock. No. 1,164,229; Dec. 14; Gaz. vol. 221; p. 566.
- Shaw, John H., New Haven, and A. A. Page, East Haven, assignors to Sargent & Company, New Haven, Conn. Lock. No. 1,137,799; May 4; Gaz. vol. 214; p. 27.
- Shaw, John K., Minneapolis, Minn. Drinking-cup. No. 1,129,130; Feb. 23; Gaz. vol. 211; p. 989.
- Shaw, Linus H., Brockton, Mass. Heel lift or rand. No. 1,146,288; July 13; Gaz. vol. 216; p. 479.
- Shaw, Moses M., Braddock, Pa. Fender. No. 1,149,958; Aug. 10; Gaz. vol. 217; p. 630.
- Shaw, Nathaniel H., Boston, Mass. Wood-saw frame. No. 1,153,646; Sept. 14; Gaz. vol. 218; p. 492.
- Shaw, Percy W., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making boots and shoes. No. 1,141,840; June 1; Gaz. vol. 215; p. 263.
- Shaw, Robert T., *et al.* (See Bowdish, Albertis, assignor.)
- Shaw, Thomas, Hackensack, N. J., assignor to American Telephone and Telegraph Company, Transformer. No. 1,133,750; Mar. 30; Gaz. vol. 212; p. 1541.
- Shaw, Walter, Dedham, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Fastener-setting machine. No. 1,139,449; May 11; Gaz. vol. 214; p. 645.
- Shaw, Walter, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gromet and washer. No. 1,163,112; Dec. 7; Gaz. vol. 221; p. 132.
- Shaw, William, Edwardsville, Ill., assignor to N. O. Nelson Manufacturing Company, Die-head. No. 1,146,354; July 13; Gaz. vol. 216; p. 501.
- Shaw, William, Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Terminal clip. No. 1,147,450; July 20; Gaz. vol. 216; p. 907.
- Shaw, William, Lakewood, assignor to Carbon Company, Cleveland, Ohio. Pictail connection. No. 1,147,451; July 20; Gaz. vol. 216; p. 907.
- Shaw, William F., Pueblo, Colo. Artificial-tooth anchor. No. 1,158,732; Nov. 2; Gaz. vol. 220; p. 112.
- Shaw, William H. (See Miller, Joseph, assignor.)
- Shaw, William H., Greenville, Me. Water-heater. No. 1,148,546; Aug. 3; Gaz. vol. 217; p. 22.
- Shaw, William S., Boyne City, Mich. Preparing and packing tanbark. No. 1,146,963; July 20; Gaz. vol. 216; p. 730.
- Shaw, William S., Boyne City, Mich. Tanning. No. 1,149,298; Aug. 10; Gaz. vol. 217; p. 392.
- Shawmut Machinery Company. (See Buck, Vertrude P., assignor.)
- Shea & Donnelly Company. (See Michie, Arthur, assignor.)
- Shea, Thomas J., Portland, Ore. Boiler. No. 1,157,813; Oct. 26; Gaz. vol. 219; p. 987.
- Sheads, Harry A. (See Conover, William M., assignor.)
- Sheafe, James S., New Brighton, N. Y. Hose-coupling. No. 1,137,913; May 4; Gaz. vol. 214; p. 66.
- Sheaff, Philip A., Philadelphia, Pa. Circle-drawing attachment for microscopes. No. 1,129,742; Feb. 23; Gaz. vol. 211; p. 1198.
- Sheaffer, James E., Burnham, assignor of forty-five one-hundredths to A. B. Long, Lewistown, Pa. Hydrocarbon-burner. No. 1,140,621; May 25; Gaz. vol. 214; p. 1130.
- Sheahan, William, Oregon City, Ore. Drier-rolls for paper-machines. (Reissue.) No. 13,925; June 8; Gaz. vol. 215; p. 635.
- Sheakley, Arthur M. (See Rea, Frank, assignor.)
- Sheal, Robert E. (See Hulett & Sheal.)
- Sheard, Jane, Rochester, N. Y. Hat-pin. No. 1,147,049; July 20; Gaz. vol. 216; p. 767.
- Shearer, Edward J. (See Anderson and Shearer.)
- Shearer, George T., assignor of one-half to J. S. Reynolds, Augusta, Ga. Turret attachment for lathes. No. 1,135,329; Apr. 13; Gaz. vol. 213; p. 485.
- Shearer, Harry T., assignor to The Landis Tool Company, Waynesboro, Pa. Journal-bearing. No. 1,149,299; Aug. 10; Gaz. vol. 217; p. 393.
- Shearer, Harry T., assignor to Landis Tool Company, Waynesboro, Pa. Cam-grinder attachment for grinding-machines. No. 1,156,323; Oct. 12; Gaz. vol. 219; p. 369.
- Shearer, Harry T., assignor to The Landis Tool Company, Waynesboro, Pa. Work-rest for grinding-machines. No. 1,163,041; Dec. 7; Gaz. vol. 221; p. 107.
- Shearer, Harry T., assignor to Landis Tool Company, Waynesboro, Pa. Grinding-machine. No. 1,165,365; Dec. 21; Gaz. vol. 221; p. 1005.
- Shearer, John A., Parkside, South Australia, Australia. Spring suspension for motor-cars and other vehicles and traveling-machines. No. 1,126,304; Jan. 26; Gaz. vol. 210; p. 1211.
- Shearer, John A., Parkside, South Australia, Australia. Spring suspension device for vehicles. No. 1,129,743; Feb. 23; Gaz. vol. 211; p. 1198.
- Shearer, John A., Parkside, South Australia, Australia. Spring suspension device for vehicles. No. 1,129,744; Feb. 23; Gaz. vol. 211; p. 1199.
- Shearer, John A., Prospect, South Australia, Australia. Spring suspension-gear for motor-cars and other vehicles. No. 1,160,775; Nov. 16; Gaz. vol. 220; p. 919.
- Shearer, Joseph W. (See Shepler and Shearer.)
- Shearer, Vance, Bridgeport, Conn. Grease-cup. No. 1,140,488; May 25; Gaz. vol. 214; p. 1083.
- Shearman, James A., Conlmit, and F. De Gordy, Providence, R. I. Cigarette box or container. No. 1,155,688; Oct. 5; Gaz. vol. 219; p. 127.
- Shearn, Joseph H., assignor to Nonotuck Silk Company, Leeds, Mass. Spool-holder. No. 1,127,686; Feb. 9; Gaz. vol. 211; p. 395.
- Shearn, Joseph H., Leeds, assignor to Nonotuck Silk Company, Florence, Mass. Spool-holder. No. 1,147,694; July 20; Gaz. vol. 216; p. 992.
- Shearsmith, George E. (See McKerrow, Walton, and Shearsmith.)
- Shearwood, Walter A., Webster Groves, Mo. Oiler for elevator guide-rods. No. 1,141,149; June 1; Gaz. vol. 215; p. 20.
- Sheble, Horace, Philadelphia, Pa. Sound-box for talking-machines. No. 1,153,316; Oct. 26; Gaz. vol. 219; p. 1164.
- Sheble, Horace, Philadelphia, Pa., and F. L. Capps, assignors to American Graphophone Company, Bridgeport, Conn. Mounting for sound-boxes. No. 1,132,287; Mar. 16; Gaz. vol. 212; p. 928.
- Shebol, Joseph, and W. F. Albrecht, Syracuse, N. Y. Pressure-gage. No. 1,127,295; Feb. 2; Gaz. vol. 211; p. 222.
- Sheckler, John, Washington, Kans. Hand-cultivator. No. 1,135,062; Apr. 13; Gaz. vol. 213; p. 394.
- Shedaker, Charles A., Philadelphia, Pa. Union suit. No. 1,137,430; Apr. 27; Gaz. vol. 213; p. 1311.
- Shedd, Harry M., Elizabeth, assignor, by mesne assignments, to R. C. Jenkinson, Newark, N. J. Gasolene-valve lock. No. 1,150,305; Aug. 17; Gaz. vol. 217; p. 815.
- Shedd, Hugh E., Minneapolis, Minn. Calendar. No. 1,158,317; Oct. 26; Gaz. vol. 219; p. 1165.
- Shedlock, Alfred, Cannon Station, Conn. Wire-making machine. No. 1,136,373; Apr. 20; Gaz. vol. 213; p. 894.
- Shedrick, William R., Douglas, Okla. Harness-buckle. No. 1,151,833; Aug. 31; Gaz. vol. 217; p. 1444.
- Sheedy, Patrick, *et al.* (See Neville, Harry, assignor.)
- Sheehan, Charles L., Arlington, Mass. Collapsible press-board. No. 1,161,794; Nov. 23; Gaz. vol. 220; p. 1323.
- Sheehan, Edwin J., Lynn, Mass. Pipe. No. 1,134,917; Apr. 6; Gaz. vol. 213; p. 297.
- Sheehan, John J., Roanoke, Va. Pneumatic hammer. No. 1,126,890; Feb. 2; Gaz. vol. 211; p. 79.
- Sheehan, Owen, New Bedford, assignor to The Hollingsworth & Vose Co., Boston, Mass. Machine for decortiating fiber. No. 1,156,103; Oct. 12; Gaz. vol. 219; p. 297.
- Sheehan, Thomas C., Essex Falls, N. J. Display-stand. No. 1,134,704; Apr. 6; Gaz. vol. 213; p. 227.
- Sheehan, Thomas C., Jersey City, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Automatic honing-machine. No. 1,166,012; Dec. 28; Gaz. vol. 221; p. 1269.
- Sheehan, William E., Albany, N. Y. Paper-making machine. No. 1,150,636; Aug. 17; Gaz. vol. 217; p. 930.
- Sheeh, Bartholomew J., Dunkirk, N. Y. Metallic tie. No. 1,138,694; May 11; Gaz. vol. 214; p. 378.
- Sheer, Henry M., Quincy, Ill. Antirooter instrument. No. 1,149,959; Aug. 10; Gaz. vol. 217; p. 630.
- Sheer, Henry M., Quincy, Ill., assignor to W. Arbogast, Allentown, Pa. Heating system for incubators and brooders. No. 1,128,535; Feb. 16; Gaz. vol. 211; p. 744.
- Sheet Metal Specialty Company. (See Nafziger, Leo S., assignor.)
- Shoers, Horace H., Sherman, Cal. Trace-support. No. 1,137,029; Apr. 27; Gaz. vol. 213; p. 1164.
- Sheets, Jesse T., Covington, Ky. Stretcher-support. No. 1,142,276; June 8; Gaz. vol. 215; p. 455.
- Sheets, William E., *et al.* (See Coker, Willie P., assignor.)
- Sheffer, Joseph R., Chicago, Ill. Union suit. No. 1,138,899; May 11; Gaz. vol. 214; p. 451.
- Sheffer, Joseph R., Chicago, Ill. Combination-undergarment. No. 1,146,209; July 13; Gaz. vol. 216; p. 452.
- Sheffield Car Company. (See Dashwood, William A., assignor.)
- Sheffield Car Company. (See Mahana, Charles G., assignor.)
- Sheffield Car Company. (See Stebbins, Charles B., assignor.)
- Sheinman, Morris, New York, N. Y., assignor, by mesne assignments, to Gibraltar Alarm Lock Co., Inc. Automatic alarm-lock. No. 1,163,783; Dec. 14; Gaz. vol. 221; p. 412.
- Shekleton, James H., Darlington, New South Wales, Australia. Lock-nut. No. 1,130,851; Mar. 9; Gaz. vol. 212; p. 386.
- Shelbourne, William H., E. W. Quisenberry, and P. Dickerson, Russellville, Ky. Combination-lock. No. 1,126,660; Jan. 26; Gaz. vol. 210; p. 1340.
- Shelby Printing Company, The. (See Gauch, Orlando S., assignor.)
- Sheldon, Aurin T. (See White and Sheldon.)
- Sheldon, Charles A., Hudson, N. Y. Automobile-fender. No. 1,129,239; Feb. 23; Gaz. vol. 211; p. 1026.
- Sheldon, Daniel F. (See Everett and Sheldon.)
- Sheldon, Edward P., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Envelop-making machine. No. 1,126,305; Jan. 26; Gaz. vol. 210; p. 1211.

Alphabetical list of patentees—Continued.

- Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,132,220; Mar. 16; Gaz. vol. 212; p. 902.
- Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Sheet-delivery mechanism. No. 1,133,407; Mar. 30; Gaz. vol. 212; p. 1418.
- Sheldon, Eugene. (See Maskrey and Sheldon.)
- Sheldon, Frank D., assignor to Milwaukee Locomotive Manufacturing Company, Milwaukee, Wis. Locomotive. No. 1,164,760; Dec. 21; Gaz. vol. 221; p. 793.
- Sheldon, Harry E. (See Forsyth, William D., assignor.)
- Sheldon, Harry E. (See Snyder, George W., assignor.)
- Sheldon, Harry E., Pittsburgh, Pa. Ingot-mold. No. 1,158,318; Oct. 26; Gaz. vol. 219; p. 1165.
- Sheldon, Lucian A., Schenectady, N. Y., assignor to General Electric Company. Steam-flow meter. No. 1,156,503; Oct. 12; Gaz. vol. 219; p. 436.
- Sheldon, Lucian A., Schenectady, N. Y., assignor to General Electric Company. Bearing for flow-meters. No. 1,157,331; Oct. 19; Gaz. vol. 219; p. 757.
- Sheldon, Ray W., White City, Kans. Fixture for combination hay and hog racks. No. 1,143,145; June 15; Gaz. vol. 215; p. 797.
- Sheldon, Thomas H., Victor, assignor of one-half to F. Herz, Goldfield, Colo. Automatic brake-setting and signal-operating apparatus for railway-trains. No. 1,130,028; Mar. 2; Gaz. vol. 212; p. 65.
- Sheldon, William G., London, England, assignor to Remington Typewriter Company, Iilon, N. Y. Type-writing machine. No. 1,152,921; Sept. 7; Gaz. vol. 218; p. 198.
- Sheldon, William G., London, England, assignor to Remington Typewriter Company, Iilon, N. Y. Type-writing machine. No. 1,156,437; Oct. 12; Gaz. vol. 219; p. 412.
- Shelbauer, Willis P., Ashton, Kans. Knife-corn header. No. 1,131,091; Mar. 9; Gaz. vol. 212; p. 468.
- Shellberg, Carl A., Elgin, Ill. Ball-bearing. No. 1,154,444; Sept. 21; Gaz. vol. 218; p. 803.
- Shellenberger, John, Rome, Ga. Veneer or slicing machine. No. 1,143,081; June 15; Gaz. vol. 215; p. 776.
- Shelley, Isaac E. and S. A., Crawfordsville, Ind. Mail-bag-handling apparatus. No. 1,136,281; Apr. 20; Gaz. vol. 213; p. 861.
- Shelley, Robert N., Newark, N. J. Towel-paper holder. No. 1,152,851; Sept. 7; Gaz. vol. 218; p. 173.
- Shelley, Simon A. (See Shelley, Isaac E. and S. A.)
- Shelmeidine, Anthony, Liverpool, England. Apparatus for the sterilization of milk. No. 1,147,558; July 20; Gaz. vol. 216; p. 943.
- Shelp, Henry W., Chicago, Ill. Leaf-binge. No. 1,129,240; Feb. 23; Gaz. vol. 211; p. 1026.
- Shelp, William B., assignor to M. Esperson, Houston, Tex. Valve. No. 1,145,853; July 6; Gaz. vol. 216; p. 307.
- Shelters, Hiram H., Rock Island, Quebec, Canada. Motor-vehicle controlling mechanism. No. 1,141,421; June 1; Gaz. vol. 215; p. 121.
- Shelton, Henry J., St. Louis, Mo. Ring-roll crusher and pulverizer. No. 1,132,042; Mar. 16; Gaz. vol. 212; p. 837.
- Shelton, Howard H., Akron, Ohio. Machine for making cotters or keys. No. 1,151,409; Aug. 24; Gaz. vol. 217; p. 1250.
- Shelton, Howard H., Akron, Ohio. Die for making cotters. No. 1,151,410; Aug. 24; Gaz. vol. 217; p. 1250.
- Shelton, Howard H., Akron, Ohio. Die for forming cotters. No. 1,151,411; Aug. 24; Gaz. vol. 217; p. 1250.
- Shelton, James K., Cuba, Ala. Washing-machine. No. 1,159,281; Nov. 2; Gaz. vol. 220; p. 302.
- Shelton, James L. (See Reitzler and Shelton.)
- Shelton, John B., assignor of one-half to P. David, Tacoma, Wash. Freight and stock car. No. 1,143,234; June 15; Gaz. vol. 215; p. 831.
- Shelton, John M., Oklahoma, Okla., assignor to The Jno. M. Shelton Egg Carrier Company. Egg-case. No. 1,143,146; June 15; Gaz. vol. 215; p. 797.
- Shelton, St. Clair D. (See Walters, Linwood A., assignor.)
- Shelton, Thomas W., Urbana, Ill. Portable crane. No. 1,161,258; Nov. 23; Gaz. vol. 220; p. 1137.
- Shenson, Aaron, San Francisco, Cal. Tire-tightener for vehicle-wheels. No. 1,147,050; July 20; Gaz. vol. 216; p. 767.
- Shepherd, Alfred E. (See Forshoe, Frank F., assignor.)
- Shepherd, Charles N., Erie, Pa. Automatic valve device. No. 1,135,003; Apr. 13; Gaz. vol. 213; p. 395.
- Shepard, Charles W., and H. W. Payne, Globe, Ariz. Engine attachment. No. 1,161,538; Nov. 23; Gaz. vol. 220; p. 1235.
- Shepard, Samuel D., Friendship Heights, Md., and M. Shapirio, Washington, D. C. Gun-sight. No. 1,153,964; Sept. 21; Gaz. vol. 218; p. 638.
- Shepherdson, John W. (See Irons, Brown, and Shepherdson.)
- Shepherdson, John W., Johnstown, Pa., assignor to General Electric Company. Flow-meter. No. 1,156,035; Oct. 12; Gaz. vol. 219; p. 482.
- Shepherd, William H., and A. E. McKechnie, Bayswater, London, England. Telegraph system. No. 1,156,043; Oct. 5; Gaz. vol. 219; p. 249.
- Shepherd, Arthur F., Columbus, Ohio. Fastening mechanism for double doors. No. 1,142,463; June 8; Gaz. vol. 215; p. 522.
- Shepherd, Francis K. (See Birchall, Harry, assignor.)
- Shepherd, Frederick J., Grantwood, C. Paull, Roselle Park, and H. W. Pleister, Westfield, assignors to H. B. Newhall, Plainfield, N. J. Spring-actuated hammer. No. 1,163,714; Dec. 14; Gaz. vol. 221; p. 388.
- Shepherd, Harold F., assignor to Bessemer Gas Engine Company, Grove City, Pa. Fuel-pump for hydrocarbon-engines. No. 1,159,425; Nov. 9; Gaz. vol. 220; p. 386.
- Shepherd, Harold F., assignor to Bessemer Gas Engine Company, Grove City, Pa. Shaft-governor. No. 1,164,021; Dec. 14; Gaz. vol. 221; p. 495.
- Shepherd, Harold F., assignor to Bessemer Gas Engine Company, Grove City, Pa. Fuel-injector for internal-combustion engines. No. 1,164,022; Dec. 14; Gaz. vol. 221; p. 496.
- Shepherd, Harold F., assignor to Bessemer Gas Engine Company, Grove City, Pa. Water and feed pump for hydrocarbon-engines. No. 1,165,028; Dec. 21; Gaz. vol. 221; p. 887.
- Shepherd, James L. (See Pope, Joseph W., assignor.)
- Shepherd, John A. (See Matthies and Shepherd.)
- Shepherd, Thomas, Dingmans Ferry, Pa. Horseshoe and calk. No. 1,157,052; Oct. 19; Gaz. vol. 219; p. 658.
- Shepherd, Thomas, (Chorlton-on-Medlock, and J. S. Hayes, Moss Side, Manchester, England. Fan or air-propeller. No. 1,143,082; June 15; Gaz. vol. 215; p. 777.
- Shepherd, Thomas, and J. S. Hayes, Manchester, England. Rotary blower, rotary pump, and the like. No. 1,158,733; Nov. 2; Gaz. vol. 220; p. 112.
- Shepherd, Thomas C., Jr., Joliet, Ill. Vehicle-wheel. No. 1,164,554; Dec. 14; Gaz. vol. 221; p. 682.
- Shepler, Albert N., Peru, Ind. Rail tie and fastener. No. 1,158,319; Oct. 26; Gaz. vol. 219; p. 1165.
- Shepler, Charles H., and J. W. Shearer, San Francisco, Cal. Apparatus for cleaning smoke-tubes of marine and other multitubular boilers. No. 1,139,910; May 18; Gaz. vol. 214; p. 844.
- Shepler, Charles H., and J. W. Shearer, San Francisco, Cal. Apparatus for cleaning smoke-tubes of boilers. No. 1,139,911; May 18; Gaz. vol. 214; p. 844.
- Sheppard, Elizabeth E., et al. (See Webber, William M., assignor.)
- Sheppard, George W., assignor of one-half to J. R. Cameron, Toronto, Ontario, Canada. Primer. No. 1,147,193; July 20; Gaz. vol. 216; p. 815.
- Sheppard, Henry W., et al. (See Webber, William M., assignor.)
- Sheppard, John H., Worcester, Mass. Shear-grinder. No. 1,126,891; Feb. 2; Gaz. vol. 211; p. 80.
- Sheppard, Osborne H., Chicago, Ill. Stethoscope. No. 1,157,428; Oct. 19; Gaz. vol. 219; p. 793.
- Sheppard, Osborne H., Chicago, Ill. Hypodermic syringe. No. 1,157,429; Oct. 19; Gaz. vol. 219; p. 793.
- Sheppard, Samuel T., and A. Munro, Garden City, Minn.; said Munro assignor to said Sheppard. Vehicle-wheel. No. 1,166,013; Dec. 28; Gaz. vol. 221; p. 1270.
- Sheppard, William, Paterson, N. J. Elevator-dredge. No. 1,126,306; Jan. 26; Gaz. vol. 210; p. 1212.
- Sheppy, Charles L., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Electrical connector. No. 1,153,580; Sept. 14; Gaz. vol. 218; p. 470.
- Sheppy, Charles L., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Electrical connector. No. 1,153,581; Sept. 14; Gaz. vol. 218; p. 471.
- Sherbondy, William E., assignor, by mesne assignments, to The Bigsby Rotary Manufacturing Company, Cleveland, Ohio. Forming a shell for a spark-plug. No. 1,152,982; Sept. 7; Gaz. vol. 218; p. 221.
- Sherbondy, William E., assignor, by mesne assignments, to The Bigsby Rotary Manufacturing Company, Cleveland, Ohio. Forming a sheet-metal shell for a spark-plug. No. 1,152,983; Sept. 7; Gaz. vol. 218; p. 221.
- Sherbondy, William E., assignor, by mesne assignments, to The Bigsby Rotary Manufacturing Company, Cleveland, Ohio. Tool for forming polygonal sides upon a hollow metal shell. No. 1,152,984; Sept. 7; Gaz. vol. 218; p. 222.
- Sherer, Fidellus. (See Caswell and Sherer.)
- Sherer, Harvey C., assignor to F. A. McKenzie, Columbus, Ohio. Furniture-anchor. No. 1,155,376; Oct. 5; Gaz. vol. 219; p. 18.
- Sherer, Samuel J., et al. (See Locke, Frank C., assignor.)
- Sherer, Samuel J. (See Sherer, William G. and S. J.)
- Sherer, William C., et al. (See Locke, Frank C., assignor.)
- Sherer, William G. and S. J., Chicago, Ill. Display-counter. No. 1,163,868; Dec. 14; Gaz. vol. 221; p. 443.
- Sheridan, Clyde B., Everett, Wash. Dirigible automobile-lamp. No. 1,137,672; Apr. 27; Gaz. vol. 213; p. 1390.
- Sheridan Iron Works, Tue, et al. (See Bredenberg, Alfred, assignor.)
- Sheridan, John T., Bowling Green, Mo. Safety device for railway turn-tables. No. 1,135,855; Apr. 13; Gaz. vol. 213; p. 670.
- Sheridan, Lawrence J., assignor of one-third to M. J. Carey and one-third to J. R. Fleming, Scranton, Pa. Switch-point-locking device. No. 1,145,807; July 6; Gaz. vol. 216; p. 291.

- Sheridan, J. Ed. Union Hill, N. J., assignor to J. Takamine, New York, N. Y. Magneto. No. 1,162,521; Nov. 30; Gaz. vol. 220; p. 1622.
- Sherland, Mark E. (See Farmer and Sherland.)
- Sherlock, James P. (See Lawson, Ballett, Jr., assignor.)
- Sherman, Albert G., Buffalo, N. Y. Furnace. No. 1,132,803; Mar. 23; Gaz. vol. 212; p. 1166.
- Sherman, Alvin G., assignor to The Detroit Vapor Stove Company, Detroit, Mich. Heavy-hydrocarbon burner. No. 1,149,300; Aug. 10; Gaz. vol. 217; p. 393.
- Sherman, Alza C., Mobile, Ala. Window. No. 1,147,559; July 20; Gaz. vol. 216; p. 944.
- Sherman, Bronislav, Erie, Pa. Combined ladder and ironing-table. No. 1,147,755; July 27; Gaz. vol. 216; p. 1041.
- Sherman, Charles W., assignor to Sherman Hog-Greaser Company, Peoria, Ill. Rubbing device. No. 1,152,126; Aug. 31; Gaz. vol. 217; p. 1545.
- Sherman, Clifton W., Buffalo, N. Y. Apparatus for making car-wheels. No. 1,149,410; Aug. 10; Gaz. vol. 217; p. 432.
- Sherman, Clifton W., assignor to Boltless Arch Bar Truck Inc., Buffalo, N. Y. Slide frame for car-trucks. No. 1,151,727; Aug. 31; Gaz. vol. 217; p. 1406.
- Sherman, Edgar B., assignor to National Piano Manufacturing Company, Grand Rapids, Mich. Automatic player-piano. No. 1,152,852; Sept. 7; Gaz. vol. 218; p. 174.
- Sherman, Elmore. (See Horn and Sherman.)
- Sherman, Eugene M. (See Davison and Sherman.)
- Sherman, George C., Geneva, N. Y. Razor-honing machine. No. 1,137,914; May 4; Gaz. vol. 214; p. 67.
- Sherman, George E., Chicago, Ill. Portable closet. No. 1,137,431; Apr. 27; Gaz. vol. 213; p. 1311.
- Sherman, Henry W., assignor to one-half to E. L. Schreck, Reading, Pa. Differential mechanism for vehicles. No. 1,134,235; Apr. 6; Gaz. vol. 213; p. 56.
- Sherman Hog-Greaser Company. (See Sherman, Charles W., assignor.)
- Sherman, Howard B., Battle Creek, Mich. Machine for drawing and stamping metal. No. 1,136,558; Apr. 20; Gaz. vol. 213; p. 959.
- Sherman, Howard B., Battle Creek, Mich. Cleat. No. 1,163,269; Dec. 7; Gaz. vol. 221; p. 187.
- Sherman, James M., Dallas, Tex. Pump. No. 1,143,325; June 15; Gaz. vol. 215; p. 863.
- Sherman, John C., *et al.* (See Browne, Ralph C., assignor.)
- Sherman, John C., Brookline, Mass. Producing sound-records. No. 1,152,562; Sept. 7; Gaz. vol. 218; p. 68.
- Sherman, Louis A., assignor to Rotary Valve Manufacturing Company, Kansas City, Mo. Valve. No. 1,143,865; June 22; Gaz. vol. 215; p. 1071.
- Sherman, Louis A., assignor to one-third to F. M. Planck and two-thirds to G. L. Schofield, Kansas City, Mo. Rotary valve. No. 1,161,813; Nov. 23; Gaz. vol. 220; p. 1329.
- Sherman, Moses, assignor of one-third to S. Liss and one-third to B. Rivkin, New York, N. Y. Lock-nut. No. 1,157,596; Oct. 19; Gaz. vol. 219; p. 846.
- Sherman, Philip, Chicago, Ill. Railway-rail. No. 1,130,549; Mar. 2; Gaz. vol. 212; p. 249.
- Sherman, Ray C., Miles City, Mont. Furnace-door. No. 1,159,282; Nov. 2; Gaz. vol. 220; p. 303.
- Sherman, Robert F., Pekin, Ill. Starch-table and apparatus for handling starch. No. 1,147,899; July 27; Gaz. vol. 216; p. 1090.
- Sherman, Ronald M. (See Edmondson, Arthur L., assignor.)
- Sherman, Willis S., Milwaukee, Wis. Carbureter. No. 1,137,238; Apr. 27; Gaz. vol. 213; p. 1240.
- Sherman, Willis S., Milwaukee, Wis. Matcher. No. 1,145,040; July 6; Gaz. vol. 216; p. 23.
- Shermer, George F., Columbus, Ohio. Swing. No. 1,138,802; May 11; Gaz. vol. 214; p. 419.
- Sherri, Daniel J. (See Abeles, Leo, assignor.)
- Sherriatt, Walter, Toronto, Ontario, Canada. Acid-tank. No. 1,125,193; Jan. 19; Gaz. vol. 210; p. 780.
- Sherrier, Philip. (See Koppitz and Sherrier.)
- Sherrier, Philip, Cleveland, Ohio. Package-coating apparatus. No. 1,152,922; Sept. 7; Gaz. vol. 218; p. 109.
- Sherry, James A., Fall River, Mass. Chair. No. 1,149,545; Aug. 10; Gaz. vol. 217; p. 479.
- Sherwin-Williams Company, The. (See Ashby, Hoidon M., assignor.)
- Sherwood, Charles A. (See Pipher, William E. A., assignor.)
- Sherwood, Charles L., assignor to The National Metallic Vault Company, London, Ohio. Burial-vault. No. 1,129,745; Feb. 23; Gaz. vol. 211; p. 1199.
- Sherwood, Charles L., assignor to The National Metallic Vault Company, London, Ohio. Burial-vault. No. 1,129,836; Feb. 23; Gaz. vol. 211; p. 1230.
- Sherwood, Charles L., assignor to The London Grave Vault Company, London, Ohio. Rest-rail for grave-vaults. No. 1,152,853; Sept. 7; Gaz. vol. 218; p. 174.
- Sherwood, Emma, New York, N. Y. Cushioning and holding support for type-writers. No. 1,129,526; Feb. 23; Gaz. vol. 211; p. 1127.
- Sherwood, George F., New Orleans, La. Dust-collector. No. 1,152,125; Aug. 31; Gaz. vol. 217; p. 1545.
- Sherwood, George H., Denver, Colo. Vestibule-diaphragm for railway-cars. No. 1,143,734; June 22; Gaz. vol. 215; p. 1026.
- Sherwood, Inez E., *et al.* (See Bush, Howard E., assignor.)
- Sherwood, James A., Scotia, N. Y. Fall-support. No. 1,144,072; June 22; Gaz. vol. 215; p. 1144.
- Sherwood, Kate L., Edinburg, N. Y. Lock for window-screens. No. 1,149,790; Aug. 10; Gaz. vol. 217; p. 569.
- Sherwood, Mather W., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Shackle for drills, &c. No. 1,154,941; Sept. 28; Gaz. vol. 218; p. 1000.
- Sherwood, Mather W., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic tool. No. 1,157,430; Oct. 19; Gaz. vol. 219; p. 794.
- Sherwood, Mather W., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Drilling-machine. No. 1,161,259; Nov. 23; Gaz. vol. 220; p. 1137.
- Sherwood, Nathan E. (See Barnes and Sherwood.)
- Sherwood, Nathan E., Detroit, Mich. Swivel-hook. No. 1,150,892; Aug. 24; Gaz. vol. 217; p. 1075.
- Sherwood, Riley A., Billings, Mont. Fish-screen. No. 1,143,147; June 15; Gaz. vol. 215; p. 798.
- Sherwood, Simeon V., Minneapolis, Minn. Safety device for railway-cars. No. 1,142,635; June 8; Gaz. vol. 215; p. 580.
- Sherwood, Sydney H., Birmingham, England. Oil-lamp. No. 1,149,091; Aug. 3; Gaz. vol. 217; p. 213.
- Shetland, Andrew J. (See Warner and Shetland.)
- Shevill, George R., deceased, Brooklyn, N. Y.; M. E. Shevill, executrix. Artificial feather. No. 1,126,104; Jan. 26; Gaz. vol. 210; p. 1140.
- Shevill, Mary E., executrix. (See Shevill, George R.)
- Shiek, Daniel W., Indianapolis, Ind., assignor to W. L. Milliken, Barnstable, Mass. Computing-machine or the like. No. 1,136,725; Apr. 20; Gaz. vol. 213; p. 1019.
- Shiek, Daniel W., Indianapolis, Ind., assignor to W. L. Milliken, Barnstable, Mass. Signal mechanism for adding-machines. No. 1,139,813; May 18; Gaz. vol. 214; p. 809.
- Shiek, Daniel W., Indianapolis, Ind., assignor to W. L. Milliken, Barnstable, Mass. Adding-machine or the like. No. 1,139,814; May 18; Gaz. vol. 214; p. 810.
- Shiek, Daniel W., Indianapolis, Ind., assignor to W. L. Milliken, Barnstable, Mass. Computing-machine. No. 1,143,447; June 15; Gaz. vol. 215; p. 905.
- Shiek, Daniel W., Indianapolis, Ind., assignor to W. L. Milliken, Barnstable, Mass. Calculating and listing machine. No. 1,143,448; June 15; Gaz. vol. 215; p. 906.
- Shiek, Daniel W., Chicago, Ill., assignor, by mesne assignments, to W. L. Milliken, trustee. Calculating-machine. No. 1,143,920; June 22; Gaz. vol. 215; p. 1089.
- Shiek, Daniel W., Indianapolis, Ind., assignor to W. L. Milliken, Barnstable, Mass. Computing-machine or the like. No. 1,149,472; Aug. 10; Gaz. vol. 217; p. 453.
- Shiek, Daniel W., Indianapolis, Ind., assignor to W. L. Milliken, Barnstable, Mass. Computing-machine. No. 1,151,055; Aug. 24; Gaz. vol. 217; p. 1131.
- Shields, Curtis W., New York, N. Y. Egg-boiler. No. 1,159,537; Nov. 9; Gaz. vol. 220; p. 425.
- Shields, Edward B., and L. L. Tyler, Tacoma, Wash. Conveying-cable-supporting sheaves. No. 1,150,972; Aug. 24; Gaz. vol. 217; p. 1103.
- Shields, George A., Columbus, Ohio. Machine for rolling sheet-glass. No. 1,133,751; Mar. 30; Gaz. vol. 212; p. 1541.
- Shields, George A., Columbus, Ohio. Machine for drawing sheet-glass. No. 1,133,752; Mar. 30; Gaz. vol. 212; p. 1542.
- Shields, George R. (See Laird and Shields.)
- Shields, Richard A. (See Johnston, William J., assignor.)
- Shields, William M. (See Brown, Enoch S., assignor.)
- Shierk, Dearell D., assignor of one-third to W. J. Steward, Rockford, Ill. Boiler construction. No. 1,136,374; Apr. 20; Gaz. vol. 213; p. 894.
- Shiery, John, Bridgeport, Ill. Fire-extinguishing means for boilers. No. 1,150,637; Aug. 17; Gaz. vol. 217; p. 930.
- Shiffer, Alice. (See Cardell, Ella, assignor.)
- Shilling, Edward C., assignor of one-fourth to O. C. Fuqua, Columbus, and one-fourth to J. Dagger, Urbana, Ohio. Safety device for automobiles. No. 1,146,355; July 13; Gaz. vol. 216; p. 502.
- Shiman-Miller Manufacturing Company. (See Emrich, Alfred, assignor.) (Reissue.)
- Shiman Miller Manufacturing Company. (See Morris, Edward J., assignor.)
- Shimer, Allen C., Anderson, Ind. Cement-block construction. No. 1,162,409; Nov. 30; Gaz. vol. 220; p. 1583.
- Shiner, Calvin J., Sioux City, Iowa. Laundry-machine. No. 1,123,408; Jan. 5; Gaz. vol. 210; p. 73.

Alphabetical list of patentees—Continued.

- Shimer, Elmer S., assignor to Samuel J. Shimer & Sons, Milton, Pa. Cutter-head. No. 1,142,776; June 8; Gaz. vol. 215; p. 629.
- Shimer, Elmer S., assignor to Samuel J. Shimer & Sons, Milton, Pa. Cutter-head. No. 1,143,449; June 15; Gaz. vol. 215; p. 906.
- Shimer, Elmer S., assignor to Samuel J. Shimer & Sons, Milton, Pa. Ball-bearing. No. 1,143,590; June 15; Gaz. vol. 215; p. 953.
- Shimmin, George F., Maryport, England. Rear framing of motor-cycles and the like. No. 1,157,431; Oct. 19; Gaz. vol. 219; p. 794.
- Shimmin, George F., Maryport, England. Spring-fork for cycles, motor-cycles, and the like. No. 1,166,156; Dec. 28; Gaz. vol. 221; p. 1323.
- Shimon, William, Pochontas, Iowa. Cushion-tire. No. 1,159,538; Nov. 9; Gaz. vol. 220; p. 425.
- Shimota, Benjamin J., Veseli, and G. B. Caraway, St. Paul, Minn. Egg-candling apparatus. No. 1,142,535; June 8; Gaz. vol. 215; p. 547.
- Shimpf Starter Company. (See Shimpf, Walter H., assignor.)
- Shimpf, Walter H., assignor to Shimpf Starter Company, Boston, Mass. Motor-starting device. No. 1,144,437; June 29; Gaz. vol. 215; p. 1301.
- Shindel, Harry F. (See Willson and Shindel.)
- Shinn, Horace W., Paducah, Ky. Slipper. No. 1,140,193; May 18; Gaz. vol. 214; p. 944.
- Shinn, James E., Conway Springs, Kans. Nut-lock. No. 1,157,814; Oct. 26; Gaz. vol. 219; p. 987.
- Shipier, Wendel H., New Castle, Pa. Rivet-set retainer. No. 1,140,536; May 25; Gaz. vol. 214; p. 1101.
- Shipley, Francis M., Piqua, Ohio. Undergarment. No. 1,144,616; June 29; Gaz. vol. 215; p. 1360.
- Shipley, George W., Albemarle, N. C. Envelop. No. 1,135,064; Apr. 13; Gaz. vol. 213; p. 395.
- Shipley, Grant B., Pittsburgh, Pa. Wood-treating cylinder. No. 1,144,669; June 29; Gaz. vol. 215; p. 1378.
- Shipley, Grant B., Pittsburgh, Pa. Adzling and boring machine. No. 1,161,986; Nov. 30; Gaz. vol. 220; p. 1436.
- Shipley, Grant B., Pittsburgh, Pa. Impregnating timber. No. 1,163,270; Dec. 7; Gaz. vol. 221; p. 187.
- Shipley, Grant B., Pittsburgh, Pa. Fireproofing timber. No. 1,163,271; Dec. 7; Gaz. vol. 221; p. 187.
- Shipley, Herman W., Center Junction, Iowa. Rail tie and fastener. No. 1,135,065; Apr. 13; Gaz. vol. 213; p. 395.
- Shipley, Lewis C., Detroit, Mich. Lock-joint. No. 1,127,099; Feb. 2; Gaz. vol. 211; p. 154.
- Shipley, Lewis C., Detroit, Mich. Vehicle-top. No. 1,136,054; Apr. 20; Gaz. vol. 213; p. 779.
- Shipley, Thomas, York, Pa. Manufacture of ice. No. 1,130,440; Mar. 2; Gaz. vol. 212; p. 209.
- Shipley, Thomas, York, Pa. Machinery for the manufacture of ice. No. 1,158,320; Oct. 26; Gaz. vol. 219; p. 1165.
- Shipley, Thomas, York, Pa. Refrigerating or ice-making apparatus. No. 1,158,321; Oct. 26; Gaz. vol. 219; p. 1166.
- Shipley, Thomas, York, Pa. Can-filler for ice-machines. No. 1,158,322; Oct. 26; Gaz. vol. 219; p. 1166.
- Shipman, Bennett C., San Francisco, Cal. Heat-transferring apparatus. No. 1,148,865; Aug. 3; Gaz. vol. 217; p. 135.
- Shipman, Edward F., New York, N. Y., assignor, by mesne assignments, to Venturi Alarm Company, Dover, N. J. Automatic alarm-valve. No. 1,125,407; Jan. 19; Gaz. vol. 210; p. 859.
- Shipman, Evan J., assignor to Sargent & Company, New Haven, Conn. Padlock. No. 1,165,545; Dec. 28; Gaz. vol. 221; p. 1106.
- Shipman, Harold C., Ottawa, Ontario, Canada. Keyless locking device. No. 1,140,919; May 25; Gaz. vol. 214; p. 1233.
- Shipman, Julia B., Providence, R. I. Candle-shade stand. No. 1,123,603; Jan. 5; Gaz. vol. 210; p. 139.
- Shipman, Ralph, Sunbury, Pa. Carburetor for explosive-engines. (Reissue.) No. 13,903; Apr. 20; Gaz. vol. 213; p. 1087.
- Shipp, Emma, Franklin, La. Grating device. No. 1,124,818; Jan. 12; Gaz. vol. 210; p. 612.
- Shippey, Albert R., Los Angeles, Cal. Double-acting force-pump. No. 1,134,918; Apr. 6; Gaz. vol. 213; p. 297.
- Shippis, Joseph A. (See Fassett, Daniel F., assignor.)
- Shirk, Harry M., Bantry, assignor of one-half to B. O. Wicks, Bottineau county, N. D. Share-fastener for plows. No. 1,126,580; Jan. 26; Gaz. vol. 210; p. 1313.
- Shirk, Peter E., Blue Ball, Pa. Combined motor-vehicle and mower. No. 1,154,662; Sept. 28; Gaz. vol. 218; p. 907.
- Shirley, Cephas L., Glen Ridge, and F. W. Mueller, Newark, N. J., assignors to Tabor Sash Fixture Co. Sash-hinge fixture. No. 1,135,407; Apr. 13; Gaz. vol. 213; p. 511.
- Shirley, John C., Hubbard Woods, Ill. Distributing device. No. 1,155,763; Oct. 5; Gaz. vol. 219; p. 151.
- Shirley, John R. (See Tucker and Shirley.)
- Shirley, Roswell R., Rockford, Ill. Hay-feeder. No. 1,153,263; Sept. 14; Gaz. vol. 218; p. 355.
- Shirreffs, James R., Los Angeles, Cal. Lens for lamps. No. 1,162,660; Nov. 30; Gaz. vol. 220; p. 1665.
- Shive, Calvin A., Payson, assignor, by mesne assignments, to J. S. Hout, Tulsa, Okla. Gearing for washing-machines and the like. No. 1,143,326; June 15; Gaz. vol. 215; p. 863.
- Shivers, Richard W. (See Hole, Charles C., assignor.)
- Shlepp, Louis, New York, N. Y. Cigar-holder and ash-receiver. No. 1,145,808; July 6; Gaz. vol. 216; p. 291.
- Shock, Abraham H., Lancaster, and F. A. English, Shamokin, Pa. Window-shade-stick clasp. No. 1,124,342; Jan. 12; Gaz. vol. 210; p. 440.
- Shockley, Clement L., and H. E. Straley, Springfield, Ohio. Priming apparatus for internal-combustion engines. No. 1,126,581; Jan. 26; Gaz. vol. 210; p. 1313.
- Shockley, Orville R., Sylvatus, Va. Saw-set. No. 1,131,563; Mar. 9; Gaz. vol. 212; p. 630.
- Shoe City Novelty Company. (See Clinch, Charles S., assignor.)
- Shoe Manufacturers' Supply Company. (See Benjamin, William T., assignor.)
- Shoemaker, Calvin H., assignor of one-half to J. A. McCauley, Fostoria, Ohio. Vise. No. 1,150,397; Aug. 17; Gaz. vol. 217; p. 847.
- Shoemaker, Dudley, Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Multiple tapping-spout. No. 1,146,903; July 20; Gaz. vol. 216; p. 714.
- Shoemaker, Frank, assignor of one-half to C. E. Doney, Waterloo, Iowa. Drifting-valve for locomotives. No. 1,149,960; Aug. 10; Gaz. vol. 217; p. 631.
- Shoemaker, Frank A., and W. E. Archer, Norristown, Pa. Gravity-feed lubricating system. No. 1,131,011; Mar. 9; Gaz. vol. 212; p. 440.
- Shoemaker, Harvey, Middletown, N. Y. Traveling crane. No. 1,140,076; May 18; Gaz. vol. 214; p. 903.
- Shoemaker, Robert J. (See MacFarland and Shoemaker.)
- Shoffstall, David S. and H., Mount Carmel, Pa. Train-stopping apparatus. No. 1,134,019; Mar. 30; Gaz. vol. 212; p. 1631.
- Shoffstall, Henry. (See Shoffstall, David S. and H.)
- Sholar, Edward H., assignor to Chattanooga Implement Manufacturing Co., Chattanooga, Tenn. Baling-press. No. 1,152,057; Aug. 31; Gaz. vol. 217; p. 1521.
- Sholes Standard Typewriter Company. (See Sholes, Zalmom G., assignor.)
- Sholes, Zalmom G., assignor, by mesne assignments, to Sholes Standard Typewriter Company, Wilmington, Del. Type-writing machine. No. 1,162,194; Nov. 30; Gaz. vol. 220; p. 1510.
- Sholes, Zalmom G., assignor, by mesne assignments, to Sholes Standard Typewriter Company, Wilmington, Del. Ribbon-shift for type-writers. No. 1,165,546; Dec. 28; Gaz. vol. 221; p. 1106.
- Sholes, Zalmom G., assignor, by mesne assignments, to Sholes Standard Typewriter Company, Wilmington, Del. Line-spacing adjustment for type-writers. No. 1,165,547; Dec. 28; Gaz. vol. 221; p. 1106.
- Sholes, Zalmom G., assignor, by mesne assignments, to Sholes Standard Typewriter Company, Wilmington, Del. Type-writer platen. No. 1,166,390; Dec. 28; Gaz. vol. 221; p. 1408.
- Sholl, Jacob M. (See Bernhard and Sholl.)
- Sholl, William F., Hubbell, Nebr. Clothes-line attachment. No. 1,164,414; Dec. 14; Gaz. vol. 221; p. 633.
- Shone, Isaac, Westminster, London, England. Sewerage system. No. 1,137,673; Apr. 27; Gaz. vol. 213; p. 1390.
- Shonnard, Harold W., New York, N. Y., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Gyroscopically-controlled torpedo. No. 1,163,606; Dec. 7; Gaz. vol. 221; p. 305.
- Shonnard, Harold W., New York, N. Y., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Automobile torpedo. No. 1,163,607; Dec. 7; Gaz. vol. 221; p. 306.
- Shook, Roy B., Dayton, Ohio. Resilient wheel. No. 1,146,289; July 13; Gaz. vol. 216; p. 479.
- Shoos, Joseph, Roseton, N. Y. Chain-stretcher. No. 1,155,520; Oct. 5; Gaz. vol. 219; p. 69.
- Shope, James E., Connellsville, Pa. Rail chair and fastener. No. 1,154,445; Sept. 21; Gaz. vol. 218; p. 803.
- Shore Instrument & Manufacturing Company, The. (See Shore, William F., assignor.)
- Shore, Lura, Belle Plaine, Kans. Quilting-frame. No. 1,163,378; Dec. 7; Gaz. vol. 221; p. 225.
- Shore, William, Toronto, Ontario, Canada, assignor to The Franey-Shore Company, Wilmington, Del. Rotary compressor. No. 1,153,874; Sept. 14; Gaz. vol. 218; p. 574.
- Shore, William E., Toronto, Ontario, Canada, assignor to The Franey-Shore Company, Wilmington, Del. Rotary pump. No. 1,153,873; Sept. 14; Gaz. vol. 218; p. 573.
- Shore, William E., assignor of forty one-hundredths to J. Franey and twenty one-hundredths to J. C. Franey, Toronto, Ontario, Canada. Rotary vacuum-machine. No. 1,149,961; Aug. 10; Gaz. vol. 217; p. 631.
- Shore, William E., assignor to Combustio Devices Corporation, New York, N. Y. Air-superheating device for furnaces. No. 1,157,964; Oct. 26; Gaz. vol. 219; p. 1041.
- Shore, William E., assignor to Combustio Devices Corporation, New York, N. Y. Air-superheating device for furnaces. No. 1,157,965; Oct. 26; Gaz. vol. 219; p. 1041.
- Shore, William F., New York, N. Y., assignor to The Shore Instrument & Manufacturing Company. Scleroscope. No. 1,154,663; Sept. 28; Gaz. vol. 218; p. 907.

- Shores, William P., Antonito, Colo. Carbureter. No. 1,156,716; Oct. 12; Gaz. vol. 219; p. 510.
- Shorman, Chauncey, Chicago, Ill. Washing-machine. No. 1,165,136; Dec. 21; Gaz. vol. 221; p. 927.
- Short, Albert E. (See Short, Horace L., A. E., and H. O.)
- Short, David L. (See Brenizer, Orson W., assignor.)
- Short, Horace L., A. E., and H. O., Battersea Park, London, England. Aeroplane. No. 1,128,065; Feb. 9; Gaz. vol. 211; p. 532.
- Short, Hugh O. (See Short, Horace L., A. E., and H. O.)
- Shorten, George, Great Crosby, near Liverpool, England. Machine for emptying barrels. No. 1,145,927; July 13; Gaz. vol. 216; p. 352.
- Shorthridge, William P., Granfield, Okla. Cutter. No. 1,133,753; Mar. 30; Gaz. vol. 212; p. 1542.
- Shortt, Edward G., Carthage, N. Y., assignor of one-half to M. C. Mason, Rockville, Conn. Carbureter. No. 1,133,754; Mar. 30; Gaz. vol. 212; p. 1542.
- Shotwell, John N., Cashmere, Wash. Box-marking machine. No. 1,138,985; May 11; Gaz. vol. 214; p. 482.
- Shoup, George L. (See Duncan and Shoup.)
- Shoup, Louis E., Franklin, Pa. Feed device for drilling-rigs. No. 1,165,722; Dec. 28; Gaz. vol. 221; p. 1170.
- Shoup, Louis E., Franklin, Pa. Drilling equipment. No. 1,165,723; Dec. 28; Gaz. vol. 221; p. 1171.
- Shoupe, Joseph R., Longview, Tex. Silo. No. 1,131,798; Mar. 16; Gaz. vol. 212; p. 750.
- Showalter, Amos T., Hagerstown, Md. Bale-tie-forming machine. No. 1,134,020; Mar. 30; Gaz. vol. 212; p. 1631.
- Showalter, Gilbert L., Geneva, Ind. Train-order holder and deliverer. No. 1,160,003; Nov. 9; Gaz. vol. 220; p. 593.
- Showalter, Jay B. F. (See Robinson, Young, and Showalter.)
- Showalter, John C., Three Rivers, Mich. Wrench attachment. No. 1,131,430; Mar. 9; Gaz. vol. 212; p. 585.
- Showalter, John T., Wellington, Kans. Brooder. No. 1,123,811; Jan. 5; Gaz. vol. 210; p. 209.
- Showalter, Roy C., Altoona, Pa. Nut-lock. No. 1,143,450; June 15; Gaz. vol. 215; p. 906.
- Shpetner, Henry, New York, N. Y. Bag-lock. No. 1,148,999; Aug. 3; Gaz. vol. 217; p. 182.
- Shrader, Lucy A., Elmira, N. Y. Railway-rail support. No. 1,128,536; Feb. 16; Gaz. vol. 211; p. 745.
- Schrauger, Darius E., Atlantic, Iowa. Metallic window-frame. No. 1,134,642; Apr. 6; Gaz. vol. 213; p. 205.
- Shredded Wheat Company, The. (See Perky, Henry D., assignor.)
- Shreeve, Herbert E., Milburn, N. J., assignor to Western Electric Company, New York, N. Y. Telephonic apparatus. No. 1,130,029; Mar. 2; Gaz. vol. 212; p. 66.
- Shreeve, Herbert E., Milburn, N. J., assignor to Western Electric Company, New York, N. Y. Microphone. No. 1,134,236; Apr. 6; Gaz. vol. 213; p. 56.
- Shreeve, Herbert E., Milburn, N. J., assignor to Western Electric Company, New York, N. Y. Telephonic device. No. 1,159,603; Nov. 9; Gaz. vol. 220; p. 450.
- Shreeve, Herbert E., Short Hills, N. J., assignor to Western Electric Company, New York, N. Y. Telephone-repeater. No. 1,156,636; Oct. 12; Gaz. vol. 219; p. 483.
- Shuck, Matilda J., assignor of one-half to P. L. Noggle, Bloomington, Ill. Bottle-stopper. No. 1,144,919; June 29; Gaz. vol. 215; p. 1464.
- Shuey, John J., Sioux City, Iowa. Clip. No. 1,148,934; Aug. 3; Gaz. vol. 217; p. 159.
- Shuey, William, Wellsburg, W. Va. Automobile repair-truck. No. 1,132,983; Mar. 23; Gaz. vol. 212; p. 1231.
- Shufeldt, John B., Jr., New York, assignor of one-half to J. B. Allen, Bedford Park, N. Y. Linotype-machine or the like. No. 1,160,776; Nov. 16; Gaz. vol. 220; p. 920.
- Shuler, Andrew F., Arcanum, Ohio. Incubator. No. 1,126,105; Jan. 26; Gaz. vol. 210; p. 1140.
- Shuler, Edward C., and S. Cohen, Dover, N. J. Signal for automobiles and other vehicles. No. 1,128,066; Feb. 9; Gaz. vol. 211; p. 533.
- Shuler, Clydes G. (See Koch and Shuler.)
- Shults, James C., Meadville, Pa., assignor to Russ Automatic Labeling Co., New York, N. Y. Can-labeling machine. (Reissue.) No. 1,139,40; June 29; Gaz. vol. 215; p. 1488.
- Shults, William G., Oakdale, Tenn. Power-hammer. No. 1,145,168; July 6; Gaz. vol. 216; p. 68.
- Shultz, Otto H. (See Conn and Shultz.)
- Shultz, Rex M., Ignacio, Colo. Heated automobile steering-wheel. No. 1,156,637; Oct. 12; Gaz. vol. 219; p. 483.
- Shumaker, Charles S., Jeannette, Pa. Automobile brake-shoe. No. 1,136,446; Apr. 20; Gaz. vol. 213; p. 920.
- Shumaker, George I., Louppoint, Iowa. Mail-bag holder. No. 1,140,006; May 18; Gaz. vol. 214; p. 878.
- Shumaker, Jim H., Beaver Falls, Pa. Charge-forming device for internal-combustion engines. No. 1,131,742; Mar. 16; Gaz. vol. 212; p. 728.
- Shumaker, Jim H., Beaver Falls, Pa. Charge-forming device for internal-combustion engines. No. 1,138,581; May 4; Gaz. vol. 214; p. 299.
- Shuman, Arno. (See Cox and Shuman.)
- Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Skylight. No. 1,156,251; Oct. 12; Gaz. vol. 219; p. 345.
- Shuman, Frank, Philadelphia, Pa. Making composite piles. No. 1,156,186; Oct. 12; Gaz. vol. 219; p. 324.
- Shuman, Frank G., Chicago, Ill. Advertising-envelop. No. 1,159,719; Nov. 9; Gaz. vol. 220; p. 491.
- Shumate, Robert D., Spray, N. C. Window-lock. No. 1,141,841; June 1; Gaz. vol. 215; p. 263.
- Shumway, Adelina R., et al., executors. (See Ritter, Frank.)
- Shumway, Harry E., Waterford, assignor to Van Zandt, Jacobs & Co., Troy, N. Y. Collar. No. 1,153,455; Sept. 14; Gaz. vol. 218; p. 425.
- Shumway, Harvey E., and W. T. Scholz, Frankfort, Kans. Vehicle-elevator. No. 1,136,726; Apr. 20; Gaz. vol. 213; p. 1020.
- Shumway, Harvey E., and W. T. Scholz, Frankfort, assignors to The S. & S. Automatic Tireaze Company, Marysville, Kans. Vehicle-elevator. No. 1,144,004; June 22; Gaz. vol. 215; p. 1120.
- Shuping, Jacob A., Morganton, N. C. Grate. No. 1,143,235; June 15; Gaz. vol. 215; p. 831.
- Shur, Edward J., New Orleans, La. Mail-bag. No. 1,131,964; Mar. 16; Gaz. vol. 212; p. 809.
- Shure, Nathan, Chicago, Ill. Razor. No. 1,124,668; Jan. 12; Gaz. vol. 210; p. 559.
- Shurtleff, Frank and W. Moline, Ill. Massage apparatus. No. 1,147,560; July 20; Gaz. vol. 216; p. 944.
- Shurtleff, Wilfred. (See Shurtleff, Frank and W.)
- Shurtleff, Wilfred, assignor of one-half to Moline Vacuum-Vapor Heating Co., Moline, Ill. Air-vent valve. No. 1,162,661; Nov. 30; Gaz. vol. 220; p. 1665.
- Shurtleff, Wilfred, assignor of one-half to Moline Vacuum Vapor-Heating Co., Moline, Ill. Heating system. No. 1,166,092; Dec. 28; Gaz. vol. 221; p. 1297.
- Shuster, Elmore F., New Haven, Conn. Wire straightening and cutting-off machine. No. 1,126,892; Feb. 2; Gaz. vol. 211; p. 80.
- Shuster, Myer M., Philadelphia, Pa. Wrench. No. 1,127,100; Feb. 2; Gaz. vol. 211; p. 154.
- Shute, James L., Seattle, Wash. Watering-trough for fowls. No. 1,127,296; Feb. 2; Gaz. vol. 211; p. 222.
- Shutt, Albert, Topeka, Kans. Double-bass guitar. No. 1,131,564; Mar. 9; Gaz. vol. 212; p. 630.
- Snutt, Albert, Topeka, Kans. Bridge for stringed musical instruments. No. 1,138,803; May 11; Gaz. vol. 214; p. 419.
- Shutt, William F., Briceville, Tenn. Internal-combustion engine. No. 1,129,023; Feb. 16; Gaz. vol. 211; p. 915.
- Shwab, Paul, Jersey City, N. J. Hinge for water-closet seats. No. 1,128,629; Feb. 16; Gaz. vol. 211; p. 776.
- Sibbit, James M., Imperial, Cal. Soap sheet and manufacturing the same. No. 1,125,408; Jan. 19; Gaz. vol. 210; p. 859.
- Sibell, Ernest F., Chicago, Ill. Collar. No. 1,127,297; Feb. 2; Gaz. vol. 211; p. 222.
- Sibert, Nicholas S. (See Flanagan, Thomas J., assignor.)
- Sibley, Arthur B., Bennington, Vt. Undergarment. No. 1,147,653; July 20; Gaz. vol. 216; p. 978.
- Sibley, Lyman E., assignor to American Optical Company, Southbridge, Mass. Eyeglasses. No. 1,161,987; Nov. 30; Gaz. vol. 220; p. 1437.
- Sibley, Richard C., Boston, Mass. Pneumatic-tire gage. No. 1,156,862; Oct. 12; Gaz. vol. 219; p. 562.
- Sibson, Walter W. (See Allsop and Sibson.)
- Sibson, Walter W., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Process and apparatus for treating fabrics. No. 1,137,719; Apr. 27; Gaz. vol. 213; p. 1415.
- Sibson, Walter W., and B. A. Parkes, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Dyeing-machine. No. 1,125,747; Jan. 19; Gaz. vol. 210; p. 979.
- Sibson, Walter W., and T. Allsop, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Circulating dyeing-machine. No. 1,150,306; Aug. 17; Gaz. vol. 217; p. 815.
- Sicklesteel, George D., Roseburg, Oreg. Boat-motor. No. 1,134,919; Apr. 6; Gaz. vol. 213; p. 298.
- Sickman, Davy V., Denver, Colo. Hydraulic cartridge. No. 1,141,077; May 25; Gaz. vol. 214; p. 1285.
- Sickman, Davy V., Denver, Colo. Hydraulic cartridge. No. 1,144,005; June 22; Gaz. vol. 215; p. 1120.
- Siddall, Thomas H., assignor to The Sumter Machinery Co., Sumter, S. C. Gearing. No. 1,160,537; Nov. 16; Gaz. vol. 220; p. 833.
- Siddons, Enoch F., deceased, Red Lodge, Mont.; Mrs. J. T. Flaherty, administratrix. Animal-trap. No. 1,130,852; Mar. 9; Gaz. vol. 212; p. 386.
- Side Walk Light Co. of America. (See Frank, Samuel, assignor.)
- Side-Weight Horse Shoe Company, The. (See Dolan, James A., assignor.)
- Sidebotham, Melvin H. (See Labombarde and Sidebotham.)
- Siders, John M., Granite, Idaho. Grubber. No. 1,134,920; Apr. 6; Gaz. vol. 213; p. 298.
- Siders, Walter L. (See Everhart, Perry W., assignor.)
- Sides, John N., North Birmingham, Ala. Railway-frog. No. 1,142,373; June 8; Gaz. vol. 215; p. 489.
- Sidney Manufacturing Company, The. (See Burket, Willbert A., assignor.)
- Sidwell, Charles W., Delta, Pa. Pump. No. 1,142,734; June 8; Gaz. vol. 215; p. 612.

Alphabetical list of patentees—Continued.

- Sieben, Henry, assignor of one-fifth to L. E. Wyne, Kansas City, Mo. Sewer-cleaner. No. 1,132,690; Mar. 23; Gaz. vol. 212; p. 1123.
- Sieben, Henry, assignor of one-fifth to L. E. Wyne, Kansas City, Mo. Sewer-cleaner. No. 1,132,691; Mar. 23; Gaz. vol. 212; p. 1123.
- Sieber, Charles. (See Gilda, John R., assignor.)
- Sieber, Ferdinand. (See Keidel and Sieber.)
- Sieber, Ferdinand, Vado Ligure, Italy, assignor to Westinghouse Electric and Manufacturing Company, Transformer. No. 1,140,920; May 25; Gaz. vol. 214; p. 1233.
- Siebert, George C., Chicago, Ill. Horseshoe. No. 1,149,223; Aug. 10; Gaz. vol. 217; p. 364.
- Siedentopf, Henry, assignor to Firm of C. Zeiss, Jena, Germany. Microscope-condenser. No. 1,157,257; Oct. 19; Gaz. vol. 219; p. 732.
- Siedle, Adolph J., and J. H. R. Yardley, London, England. Stamp-afixing instrument. No. 1,130,205; Mar. 2; Gaz. vol. 212; p. 126.
- Siedow, Karl, Sidney, Nebr. Shovel or spade attachment. No. 1,138,018; May 4; Gaz. vol. 214; p. 102.
- Siedschlag, Harry M. (See Keller and Siedschlag.)
- Sieffert, Martin J. (See Vernon and Sieffert.)
- Siegel, Benjamin, Detroit, Mich. Delivery-box. No. 1,126,893; Feb. 2; Gaz. vol. 211; p. 80.
- Siegel, Harold L., trustee. (See Pollock and Rosenberg, assignors.) (Reissue.)
- Siegel, Myer, assignor of one-half to S. Solomon, New York, N. Y. Cloth-cutting machine. No. 1,136,842; Apr. 20; Gaz. vol. 213; p. 1060.
- Siegfried, Wilhelm, Erfurt, Germany. Label-fastener. No. 1,127,298; Feb. 2; Gaz. vol. 211; p. 222.
- Siegrist, Charles F., assignor to The Strong, Carlisle & Hammond Company, Cleveland, Ohio. Water-measuring device. No. 1,133,067; Mar. 23; Gaz. vol. 212; p. 1262.
- Siegrist, Henry A., assignor of forty-five one-hundredths to C. H. Dudley, St. Louis, Mo. Signal for automobiles. No. 1,151,834; Aug. 31; Gaz. vol. 217; p. 1444.
- Siegwarth, John L., Chehalis, Wash. Beet-harvester. No. 1,127,299; Feb. 2; Gaz. vol. 211; p. 222.
- Siemens & Co., Gebrüder. (See Egly, Georg, assignor.)
- Siemens & Halske. (See Merk, Friedrich, assignor.)
- Siemens & Halske, A. G. (See Bucky, Gustav, assignor.)
- Siemens & Halske A. G. (See Dürr, Max, assignor.)
- Siemens & Halske A. G. (See Ehrhardt, Erwin, assignor.)
- Siemens & Halske, A. G. (See Erlwein and Knips, assignors.)
- Siemens & Halske A. G. (See Franke and Ehrhardt, assignors.)
- Siemens & Halske A. G. (See Gerdien, Hans, assignor.)
- Siemens & Halske A. G. (See Gerdien and Pirani, assignors.)
- Siemens & Halske A. G. (See Grabe, Georg, assignor.)
- Siemens & Halske A. G. (See Marchthal, Eduard M. v., assignor.)
- Siemens & Halske, A. G. (See Mylo, Gustav, assignor.)
- Siemens & Halske, A. G. (See Ochs, Karl, assignor.)
- Siemens & Halske, A. G. (See Rasehorn and Grossmann, assignors.)
- Siemens & Halske A. G. (See Santos and Boerner, assignors.)
- Siemens & Halske, A. G. (See Schrader, Carl, assignor.)
- Siemens und Halske Aktiengesellschaft. (See Kaminsky, Paul, assignor.)
- Siemens & Halske, Aktiengesellschaft. (See Missbach, Ernst G., assignor.)
- Siemens-Schuckertwerke G. m. b. H. (See Finckel, Adolf, assignor.)
- Siemens-Schuckert Werke G. m. b. H. (See Gewecke and Baumlér, assignor.)
- Siemens-Schuckertwerke G. m. b. H. (See Höchstädter, Martin, assignor.)
- Siemens-Schuckertwerke G. m. b. H. (See Holsten, Richard, assignor.)
- Siemens-Schuckert Werke, G. m. b. H. (See Schalkau, Arthur, assignor.)
- Siemens-Schuckert Werke, G. m. b. H. (See Seybold, Georg, assignor.)
- Siemens-Schuckertwerke G. m. b. H. (See Thiele, Hans, assignor.)
- Siemens-Schuckertwerke G. m. b. H. (See Tolle, Heinrich, assignor.)
- Siemon, Carl F., Bridgeport, Conn. Method of and apparatus for making dial-disks. No. 1,147,979; July 27; Gaz. vol. 216; p. 1119.
- Siemund, Heinrich L. J. (See Arendt, Morton, assignor.)
- Sieren, John B., Defiance, Ohio. Acetylene-lantern and shadowless base. No. 1,166,267; Dec. 28; Gaz. vol. 221; p. 1365.
- Sierzbnski, Henryk, Iron River, Mich. Rag-feed. No. 1,147,051; July 20; Gaz. vol. 216; p. 767.
- Siever, Paul, South Omaha, Nebr. Combination coat and hat rack for theater-seats and the like. No. 1,161,539; Nov. 23; Gaz. vol. 220; p. 1235.
- Sieverkropp, Henry R., Racine, Wis. Engine-starter mechanism. No. 1,162,410; Nov. 30; Gaz. vol. 220; p. 1583.
- Sievers, Herman C., Chicago, Ill., assignor to Eastman Kodak Company, Rochester, N. Y. Method of and device for holding photographic-film sheets. No. 1,139,079; May 11; Gaz. vol. 214; p. 516.
- Sievert, Albert H. (See Sievert, Charles W., assignor.)
- Sievert, Charles W., assignor of one-half to A. H. Sievert, Los Angeles, Cal. Flanging-machine. No. 1,124,963; Jan. 12; Gaz. vol. 210; p. 663.
- Sievert, Wilhelm, Hamburg, Germany. Folding easy-chair. No. 1,165,548; Dec. 28; Gaz. vol. 221; p. 1107.
- Sifter, Steve, Clay Center, Ohio. Plow. No. 1,165,808; Dec. 28; Gaz. vol. 221; p. 1199.
- Sigafoos, Clark A., et al. (See Smith, Clarence I. W., assignor.)
- Sigafoos, Clark A., Omaha, Nebr. Paper-folding machine. No. 1,128,537; Feb. 16; Gaz. vol. 211; p. 745.
- Sigmund, Myer, assignor of one-half to S. Spitzer, Toledo, Ohio. Radiator. No. 1,142,536; June 8; Gaz. vol. 215; p. 547.
- Sigmund, Joseph, Denver, Colo. Display-stand. No. 1,125,194; Jan. 19; Gaz. vol. 210; p. 781.
- Signature Company. (See Johnson, Frank A., assignor.)
- Signoret, Ferdinand, Marseille, France. Fumigating composition. No. 1,159,109; Nov. 2; Gaz. vol. 220; p. 241.
- Sigrist, Frederick G., Rochester, Mo. Self-cleaning rake. No. 1,145,809; July 6; Gaz. vol. 216; p. 291.
- Sigwart, August. (See Neelmeier and Sigwart.)
- Sihler, William, Decorah, Iowa. Coat. No. 1,136,282; Apr. 20; Gaz. vol. 213; p. 861.
- Slkes, Jonas C., assignor of one-half to J. J. Darnell, Greenville, Tex. Mulsher. No. 1,150,638; Aug. 17; Gaz. vol. 217; p. 931.
- Sikorski, Clarence, Dayton, Ohio. Escutcheon-plate. No. 1,124,819; Jan. 12; Gaz. vol. 210; p. 612.
- Silander, Arthur E., Berlin, Germany. Brush-making. No. 1,137,915; May 4; Gaz. vol. 214; p. 67.
- Silberberg, Ernest, Rochester, N. Y. Wheeled potato-digger. No. 1,159,110; Nov. 2; Gaz. vol. 220; p. 242.
- Silberberg, Mortimer J., Chicago, Ill. Tie-plate. No. 1,151,728; Aug. 31; Gaz. vol. 217; p. 1406.
- Silberman, Louis, New York, N. Y. Collapsible metal box. No. 1,163,696; Dec. 14; Gaz. vol. 221; p. 382.
- Silbermann, Theophil, Dresden, Germany. Basic magnesium carbonate and preparing same. No. 1,163,475; Dec. 7; Gaz. vol. 221; p. 259.
- Silberstein, Carl, Berkeley, Cal. Coin-wrapper. No. 1,155,624; Oct. 5; Gaz. vol. 219; p. 103.
- Silberstein, Martin, et al. (See Star, George, assignor.)
- Silbert, Herman, Buffalo, assignor to L. F. Adt, Albany, N. Y. Eyeglass-mounting. No. 1,145,442; July 6; Gaz. vol. 216; p. 163.
- Silengo, John B., Burke, Cal. Ice-cream freezer. No. 1,163,113; Dec. 7; Gaz. vol. 221; p. 132.
- Silica Stone Works. (See Thomas, Charles W., assignor.)
- Silk, Thomas, Martins Ferry, Ohio. Priming appliance for orchard-beaters. No. 1,153,178; Sept. 7; Gaz. vol. 218; p. 286.
- Sill, Samuel J., assignor of one-half to H. H. Hewitt, Buffalo, N. Y. Machine for disconnecting the sections of hose-forming mandrels. No. 1,123,409; Jan. 5; Gaz. vol. 210; p. 73.
- Sill, Samuel J., assignor of one-half to H. H. Hewitt, Buffalo, N. Y. Mandrel for forming and vulcanizing rubber hose. No. 1,130,030; Mar. 2; Gaz. vol. 212; p. 66.
- Sill, Samuel J., assignor of one-half to H. H. Hewitt, Buffalo, N. Y. Machine for reinforcing hose. No. 1,149,224; Aug. 10; Gaz. vol. 217; p. 364.
- Sillocks, Howard, Newark, N. J., and C. H. Heidel, Bethlehem, Pa. Picker for looms. No. 1,126,582; Jan. 26; Gaz. vol. 210; p. 1314.
- Sillocks-Miller Company, The. (See Miller, Horace E., assignor.)
- Sillin, Cyrenius W., Stuttgart, Ark. Chimney-cap and storm-shield. No. 1,133,324; Mar. 30; Gaz. vol. 212; p. 1387.
- Sillitoe, Ernest W. (See Grover, George, assignor.)
- Sillo, Daniel, assignor of one-half to J. Salamon, Aurora, Ill. Street-sweeper. No. 1,143,148; June 15; Gaz. vol. 215; p. 798.
- Sills, Berton H., Toronto, Ontario, Canada. Grip-tread for wheel-tires. No. 1,135,856; Apr. 13; Gaz. vol. 213; p. 671.
- Sills, Clyde C., Dardanelle, Ark. Automatic lubricator. No. 1,142,735; June 8; Gaz. vol. 215; p. 612.
- Sills, William H., Chicago, Ill. Apparatus for making mica-board. No. 1,133,325; Mar. 30; Gaz. vol. 212; p. 1388.
- Silva, Filicissimo C., et al. (See Simao, Antonio P., assignor.)
- Silva, Juan N., Pueblo, Colo. Kiln. No. 1,133,190; Mar. 23; Gaz. vol. 212; p. 1306.
- Silveira, Henry M., assignor to American Water Supply Company of New England, Boston, Mass. Paper receptacle. No. 1,129,364; Feb. 23; Gaz. vol. 211; p. 1069.
- Silver-Chamberlin Co. (See Wilson, Joseph T., assignor.)
- Silver Manufacturing Company, The. (See Haldeman, Charles F., assignor.)
- Silver Manufacturing Company, The. (See Haldeman, James C., assignor.)
- Silversides, Robert W., Malton, England. Rug and carpet making machine. No. 1,135,408; Apr. 13; Gaz. vol. 213; p. 512.
- Silverthorn, Minnie E., Cayuga, N. D. Handle. No. 1,153,718; Sept. 14; Gaz. vol. 218; p. 519.

- Silvestri, Dante, Rome, Italy. Resilient-hub wheel. No. 1,140,622; May 25; Gaz. vol. 214; p. 1130.
- Silvestri, Giulio, Vienna, Austria-Hungary. Rotary engine. No. 1,134,357; Apr. 6; Gaz. vol. 213; p. 100.
- Silvestri, Giulio, Vienna, Austria-Hungary. Apparatus for regulating the output of centrifugal pumps. No. 1,141,015; May 25; Gaz. vol. 214; p. 1265.
- Silvestri, Giulio, Vienna, Austria-Hungary. Means for regulating rotary pumps and rotary engines. No. 1,141,016; May 25; Gaz. vol. 214; p. 1265.
- Silvius, Ellis T., Indianapolis, Ind. Fencing-fastener. No. 1,129,610; Feb. 23; Gaz. vol. 211; p. 1157.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Credit-accounting register. No. 1,135,214; Apr. 13; Gaz. vol. 213; p. 446.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Credit-account register. No. 1,135,215; Apr. 13; Gaz. vol. 213; p. 446.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,136,177; Apr. 20; Gaz. vol. 213; p. 823.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,141,422; June 1; Gaz. vol. 215; p. 121.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,142,122; June 8; Gaz. vol. 215; p. 402.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Credit-accounting register. No. 1,143,789; June 22; Gaz. vol. 215; p. 1044.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,147,980; July 27; Gaz. vol. 216; p. 1119.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, (incorporated in 1914), Alliance, Ohio. Filing appliance. No. 1,154,135; Sept. 21; Gaz. vol. 218; p. 696.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,160,538; Nov. 16; Gaz. vol. 220; p. 833.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Credit-accounting register. No. 1,162,522; Nov. 30; Gaz. vol. 220; p. 1622.
- Sim, William, Underwood, Invercargill, New Zealand, assignor to Torris Wold & Co., Chicago, Ill. Machine for fitting closure-caps to cans. No. 1,132,221; Mar. 16; Gaz. vol. 212; p. 903.
- Simandl, Anthony, Norton, Va. Automobile-fender. No. 1,126,106; Jan. 26; Gaz. vol. 210; p. 1140.
- Simao, Antonio P., assignor of one-seventh to R. Rodriguec, one-seventh to F. C. Silva, one-seventh to E. L. Rosa, one-seventh to C. L. Pingree, and two-sevenths to M. E. Mello, Lowell, Mass. Puzzle. No. 1,154,136; Sept. 21; Gaz. vol. 218; p. 697.
- Simard, Epiphane P., Waltham, Mass. Rail-joint. No. 1,129,746; Feb. 23; Gaz. vol. 211; p. 1199.
- Simas, Michael P., assignor of one-half to J. Vasconcellos, New Bedford, Mass. Clam-rake. No. 1,141,423; June 1; Gaz. vol. 215; p. 121.
- Sime, Carl M., Griebok, Minn. Speed-regulator. No. 1,151,907; Aug. 31; Gaz. vol. 217; p. 1470.
- Simance, John F., and J. Abady, London, England. Calorimeter. No. 1,143,790; June 22; Gaz. vol. 215; p. 1045.
- Simmen, Paul J., Indianapolis, Ind. Device for perforating paper. No. 1,138,804; May 11; Gaz. vol. 214; p. 419.
- Simmen, Paul J., Los Angeles, Cal. Cab signal system. No. 1,140,623; May 25; Gaz. vol. 214; p. 1130.
- Simmen, Paul J., Los Angeles, Cal. Mechanism or apparatus for controlling, retarding, and arresting the motion of engines or vehicles when traveling. No. 1,150,308; Aug. 17; Gaz. vol. 217; p. 816.
- Simmen, Paul J., Los Angeles, Cal. Means for controlling the movement of vehicles. No. 1,150,309; Aug. 17; Gaz. vol. 217; p. 817.
- Simmen, Paul J., San Francisco, Cal. Normally-closed cab-signal circuit. No. 1,150,307; Aug. 17; Gaz. vol. 217; p. 816.
- Simmon, Karl A., and A. J. Hall, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Liquid rheostat. No. 1,166,157; Dec. 28; Gaz. vol. 221; p. 1323.
- Simmonds Engineering Company, The. (See Simmonds, John J., assignor.)
- Simmonds, James E., Camp Point, Ill. Automatically-controlled stock-watering and water heating and supply tank. No. 1,164,880; Dec. 21; Gaz. vol. 221; p. 835.
- Simmonds, John J., assignor to The Simmonds Engineering Company, Iowa, Kans. Rake-operating mechanism for ore-roasting furnaces. No. 1,133,068; Mar. 23; Gaz. vol. 212; p. 1262.
- Simmons, Bernard R., Birmingham, England. Fastening device. No. 1,124,540; Jan. 12; Gaz. vol. 210; p. 513.
- Simmons, Bernard R., Birmingham, England. Watch-wristlet, bracelet, glove and sleeve holder, and the like. No. 1,135,409; Apr. 13; Gaz. vol. 213; p. 513.
- Simmons, Charles A., Albany, N. Y. Hose-clamp. No. 1,166,158; Dec. 28; Gaz. vol. 221; p. 1324.
- Simmons, George A., et al. (See Caswell, William B., assignor.)
- Simmons, George T., Janesville, Wis. Spark-plug. No. 1,163,272; Dec. 7; Gaz. vol. 221; p. 188.
- Simmons, James L. (See Moore and Simmons.)
- Simmons, John C., Colorado Springs, Colo. Ore-roasting furnace. No. 1,164,761; Dec. 21; Gaz. vol. 221; p. 794.
- Simmons, John P., San Francisco, Cal. Internal-combustion engine. No. 1,135,330; Apr. 13; Gaz. vol. 213; p. 485.
- Simmons, Joseph, New York, N. Y. Tooth-brush. No. 1,137,916; May 4; Gaz. vol. 214; p. 67.
- Simmons, Lawrence A., Schenectady, N. Y., assignor to General Electric Company. Flow-meter. No. 1,156,638; Oct. 12; Gaz. vol. 219; p. 483.
- Simmons, Leo, Washington, D. C. Flushing apparatus. No. 1,142,917; June 15; Gaz. vol. 215; p. 717.
- Simmons, Leo, Washington, D. C. Flushing apparatus. No. 1,145,622; July 6; Gaz. vol. 216; p. 225.
- Simmons, Leon E., Decoto, Cal. Train-marker. No. 1,133,583; Mar. 30; Gaz. vol. 212; p. 1481.
- Simmons Manufacturing Company, The. (See Burns, John, assignor.)
- Simmons Manufacturing Company, The. (See Frederick, Clarence H., assignor.)
- Simmons Manufacturing Company, The. (See Gail, John F., assignor.)
- Simmons Manufacturing Company. (See Isaacs, Joel L., assignor.)
- Simmons Manufacturing Company, The. (See Parry, William H., assignor.)
- Simmons Manufacturing Company. (See Rudd, Otto, assignor.)
- Simmons, Norton A. (See Burnham, Louis T., assignor.)
- Simmons, Oliver G., Narberth, assignor to W. F. Fischer, Philadelphia, Pa. Rotary milling-cutter. No. 1,126,107; Jan. 26; Gaz. vol. 210; p. 1140.
- Simmons, Parker T., Attleboro Falls, Mass. Base-ball-game apparatus. No. 1,153,719; Sept. 14; Gaz. vol. 218; p. 519.
- Simmons, Paul R., Marion, Ind. Dish-forming machine. No. 1,147,759; July 27; Gaz. vol. 216; p. 1041.
- Simmons, R. M. (See Holtby, Wilkie H., assignor.)
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,129,047; Feb. 16; Gaz. vol. 211; p. 924.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cutting-machine. No. 1,129,131; Feb. 23; Gaz. vol. 211; p. 989.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-breasting machine. No. 1,133,584; Mar. 30; Gaz. vol. 212; p. 1481.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon heels. No. 1,143,921; June 22; Gaz. vol. 215; p. 1090.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon boots and shoes. No. 1,145,390; July 6; Gaz. vol. 216; p. 144.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Hook and eyelet setting machine. No. 1,146,028; July 13; Gaz. vol. 216; p. 389.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stopping mechanism. No. 1,147,194; July 20; Gaz. vol. 216; p. 816.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeletting-machine. No. 1,156,936; Oct. 19; Gaz. vol. 219; p. 616.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,163,697; Dec. 14; Gaz. vol. 221; p. 382.
- Simmons, Samuel T., Columbus, Ohio. Track cleaner and oiler. No. 1,128,910; Feb. 16; Gaz. vol. 211; p. 875.
- Simmons, Samuel T., Columbus, Ohio. Mechanism for transmitting power. No. 1,155,284; Sept. 28; Gaz. vol. 218; p. 1115.
- Simmons, Sheridan D., assignor of one-half to H. Amling, New York, N. Y. Rotary engine. No. 1,125,599; Jan. 19; Gaz. vol. 210; p. 924.
- Simmons, Sheridan D., assignor of one-half to H. Amling, New York, N. Y. Elastic-fluid generator and motor mechanism. No. 1,149,000; Aug. 3; Gaz. vol. 217; p. 182.
- Simmons, Sheridan D., and H. Amling, New York, N. Y. Semisubmersible war-ship. No. 1,164,415; Dec. 14; Gaz. vol. 221; p. 633.
- Simmons, Walter B. (See Staley and Simmons.)

Alphabetical list of patentees—Continued.

- Simmons, William L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Universal right-angle iron. No. 1,148,196; July 27; Gaz. vol. 216; p. 1196.
- Simmons, Zalmon G., *et al.*, trustees. (See Lee and Monks, assignors.)
- Simms, Frederick R., London, England, assignor to The Simms Magneto Company, Bloomfield, N. J. Magneto-electric machine for combined ignition and illumination purposes. No. 1,130,206; Mar. 2; Gaz. vol. 212; p. 127.
- Simms, Frederick R., Kilburn, England, assignor to The Simms Magneto Company, Bloomfield, N. J. Magneto-electric machine. No. 1,155,521; Oct. 5; Gaz. vol. 219; p. 70.
- Simms, Harold H. (See Skeels, Henry E., assignor.)
- Simms, Harold H., Rochester, assignor to Auto Strop Company, New York, N. Y. Razor. No. 1,133,326; Mar. 30; Gaz. vol. 212; p. 1388.
- Simms, Harold H., Rochester, assignor to Auto Strop Company, New York, N. Y. Razor. No. 1,133,327; Mar. 30; Gaz. vol. 212; p. 1389.
- Simms, Harold H., Rochester, assignor to Auto Strop Company, New York, N. Y. Razor. No. 1,133,328; Mar. 30; Gaz. vol. 212; p. 1389.
- Simms, Harold H., Rochester, assignor to Auto Strop Company, New York, N. Y. Razor. No. 1,133,329; Mar. 30; Gaz. vol. 212; p. 1390.
- Simms, Horace R., assignor to American Skein & Foundry Company, Racine, Wis. Method of and apparatus for making molds for casting plano-plates. No. 1,131,743; Mar. 16; Gaz. vol. 212; p. 728.
- Simms Magneto Company, The. (See Simms, Frederick R., assignor.)
- Simms, Thomas D., Fayetteville, Tenn. Planter. No. 1,150,310; Aug. 17; Gaz. vol. 217; p. 817.
- Simon, Abraham A., New York, N. Y. Music-leaf turner. No. 1,159,331; Nov. 2; Gaz. vol. 220; p. 320.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Starting device. No. 1,125,195; Jan. 19; Gaz. vol. 210; p. 781.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for alternating-current motors. No. 1,132,741; Mar. 23; Gaz. vol. 212; p. 1141.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric magnet and solenoid. No. 1,142,852; June 15; Gaz. vol. 215; p. 694.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,154,733; Sept. 28; Gaz. vol. 218; p. 930.
- Simon, Arthur, assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical resistance device. No. 1,158,572; Nov. 2; Gaz. vol. 220; p. 58.
- Simon, Carl G., deceased, Seattle; G. Olson, administrator, assignor to L. H. Markham and C. E. Taylor, King county, Wash. Refrigerator. No. 1,156,252; Oct. 12; Gaz. vol. 219; p. 346.
- Simon, Charles, Newark, N. J. Vehicle frame suspension and shock-absorber. No. 1,163,476; Dec. 7; Gaz. vol. 221; p. 259.
- Simon, Christian, Essen-Ruhr, Germany. Coal-jigging plant. No. 1,144,735; June 29; Gaz. vol. 215; p. 1403.
- Simon, Frank, and J. W. Scott, Minnaar, Transvaal, South Africa. Feeding means of percussive rock-drills, coal-cutters, and the like. No. 1,146,356; July 13; Gaz. vol. 216; p. 502.
- Simon, Leopold, New York, N. Y. Screen. No. 1,161,077; Nov. 23; Gaz. vol. 220; p. 1070.
- Simon, Morecz, East Chicago, Ind. Vehicle-tire. No. 1,137,557; Apr. 27; Gaz. vol. 213; p. 1284.
- Simon, Paul, Perth Amboy, N. J. Life-saving suit. No. 1,141,273; June 1; Gaz. vol. 215; p. 65.
- Simon, Paul, Perth Amboy, N. J. Life-saving suit. No. 1,147,274; July 20; Gaz. vol. 216; p. 844.
- Simon, Saul P. (See Hays, Emory M., assignor.)
- Simon, Steven, Muskegon Heights, Mich. Combined cutter and chopper. No. 1,155,843; Oct. 5; Gaz. vol. 219; p. 182.
- Simonds, Charles G. (See Smith and Simonds.)
- Simonds, Charles G., and A. E. Smith, Milwaukee, Wis. Rock-crusher. No. 1,164,762; Dec. 21; Gaz. vol. 221; p. 794.
- Simonds, Herbert R., Dayton, Ohio. Device for grinding the bars of beating-rolls. No. 1,163,273; Dec. 7; Gaz. vol. 221; p. 188.
- Simonds, Herbert R., assignor to The A. A. Simonds & Son Co., Dayton, Ohio. Knife-bar for beating-engines. No. 1,149,791; Aug. 10; Gaz. vol. 217; p. 569.
- Simonds Manufacturing Company. (See Howard, Leslie E., assignor.)
- Simoneaux, Edward N., New Orleans, La. Paper box. No. 1,129,909; Mar. 2; Gaz. vol. 212; p. 26.
- Simonian, Sarkis, East Cambridge, Mass. Pen and pencil holder. No. 1,140,194; May 18; Gaz. vol. 214; p. 944.
- Simonich, Victor, Biloxi, Miss. Cover for barrels and the like. No. 1,164,230; Dec. 14; Gaz. vol. 221; p. 566.
- Simons, Albert H., Buffalo, N. Y. Tool for laying out cams. No. 1,133,585; Mar. 30; Gaz. vol. 212; p. 1482.
- Simons, Enos W., Jr., Payson, Utah. Tub attachment. No. 1,132,491; Mar. 16; Gaz. vol. 212; p. 1001.
- Simons, Frank, St. Louis, Mo. Packing-ring. No. 1,133,672; Mar. 30; Gaz. vol. 212; p. 1515.
- Simons, Frank, St. Louis, Mo. Universal coupling. No. 1,140,720; May 25; Gaz. vol. 214; p. 1160.
- Simons, Frank W., assignor to N. Fink, Vallejo, Cal. Gaseous-fuel mixer. No. 1,139,912; May 18; Gaz. vol. 214; p. 845.
- Simons, Glenn P. (See Beasecker and Simons.)
- Simons, Henry C., Odebolt, Iowa. Lathe. No. 1,136,178; Apr. 20; Gaz. vol. 213; p. 824.
- Simons, William S., Houston, Tex. Screen attachment. No. 1,131,565; Mar. 9; Gaz. vol. 212; p. 631.
- Simonsen, Johan C., assignor to Chalmers Motor Company, Detroit, Mich. Apparatus for winding armature-coils. No. 1,161,988; Nov. 30; Gaz. vol. 220; p. 1437.
- Simonsen, Niels C., Sioux Rapids, Iowa. Rod-cutter. No. 1,137,093; Apr. 27; Gaz. vol. 213; p. 1187.
- Simonsson, Wilhelm, New York, N. Y. Recording mechanism. No. 1,124,820; Jan. 12; Gaz. vol. 210; p. 613.
- Simonsson, Wilhelm, New York, N. Y. Indicating and registering mechanism. No. 1,137,094; Apr. 27; Gaz. vol. 213; p. 1188.
- Simpkins, Frank E., Youngstown, Ohio. Manufacture of seamless tubes. No. 1,141,424; June 1; Gaz. vol. 215; p. 122.
- Simpkins, Frank E., Youngstown, Ohio. Apparatus for rolling seamless tubes. No. 1,141,425; June 1; Gaz. vol. 215; p. 122.
- Simpkins, Frank E., Youngstown, Ohio. Mandrel stripping and cooling mechanism. No. 1,141,426; June 1; Gaz. vol. 215; p. 122.
- Simpkins, Frank E., Youngstown, Ohio. Tube-rolling mill. No. 1,141,427; June 1; Gaz. vol. 215; p. 123.
- Simple Account Salesbook Company, The. (See Carter, Emory J., assignor.)
- Simplex Adding Machine Company. (See Gatewood, William F., assignor.)
- Simplex Adding Machine Company. (See Sweet and Tideman, assignors.)
- Simplex Air-Brake Company. (See Wertz, Peter, assignor.)
- Simplex Concrete Piling Company, The. (See Beall, Richard J. J., assignor.)
- Simplex Concrete Piling Company, The. (See Stewart, John, assignor.)
- Simplex Electric Heating Company. (See Chandler, Edwin N., assignor.)
- Simplex Electric Heating Company. (See Ovington, Edward J., assignor.)
- Simplex Electric Heating Company. (See Williams, Roger, assignor.)
- Simplex Machine Co., The. (See Dodge, Raymond E., assignor.)
- Simplex Player Action Company. (See Brown, Theodore P., assignor.)
- Simplex Sample System Inc. (See Smith, Vinal W., assignor.)
- Simplex Self-Hoisting Machine Company. (See Moulton, Ira C., assignor.)
- Simplex Shoe Machinery Company. (See Myers, Charles E., assignor.)
- Simplex Window Company, The. (See Soule and Larsen, assignors.)
- Simplex Wire & Cable Company. (See Bentley, Frank, assignor.)
- Simpon, A. W. (See Kevitt, Cornelius, assignor.)
- Simpon, Benjamin F., Orlando, Cal. Sanitary watering-trough. No. 1,133,755; Mar. 30; Gaz. vol. 212; p. 1543.
- Simpon, Benjamin L., Kansas City, Mo. Automatic shutter-operating device for cameras. No. 1,146,964; July 20; Gaz. vol. 216; p. 736.
- Simpon, Charles A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Relay. No. 1,141,982; June 8; Gaz. vol. 215; p. 350.
- Simpon, Charles M., assignor of five-sixths to H. F. Smith, Houston, Tex. Track-laying machine. No. 1,124,343; Jan. 12; Gaz. vol. 210; p. 441.
- Simpon, Charles M., assignor of five-sixths to H. F. Smith, Houston, Tex. Bridle-rod. No. 1,127,927; Feb. 9; Gaz. vol. 211; p. 484.
- Simpon, Clarence D., *et al.* (See Watres, Lewis S., assignor.)
- Simpon, Clarence L., Tacoma, assignor of one-half to E. Brumberg, Hoquiam, Wash. Cape. No. 1,152,854; Sept. 7; Gaz. vol. 218; p. 175.
- Simpon, Edmund, New York, N. Y. Switch-key attachment. No. 1,142,277; June 8; Gaz. vol. 215; p. 456.
- Simpon, Edmund A., assignor to Chicago Solder Company, Chicago, Ill. Can-tipping machine. No. 1,128,273; Feb. 9; Gaz. vol. 211; p. 604.
- Simpon, Edward E., Oakland, Iowa. Ladder-scaffolding. No. 1,148,631; Aug. 3; Gaz. vol. 217; p. 53.
- Simpon, Edward J., New York, N. Y. Carburetor. No. 1,162,111; Nov. 30; Gaz. vol. 220; p. 1481.
- Simpon, Frances M., *et al.* (See Crompton, Edwin, Jr., assignor.)
- Simpon, Frank M., Alameda, Cal. Rail-plate. No. 1,141,428; June 1; Gaz. vol. 215; p. 123.
- Simpon, Fred, Blundellsands, near Liverpool, England. Apparatus for indicating and recording small differences of fluid-pressure and for operating integrating or control devices which have to be regulated by the said differences of pressure. No. 1,132,400; Mar. 16; Gaz. vol. 212; p. 968.

Alphabetical list of patentees—Continued.

- Simpson, Fred, Blundellsands, near Liverpool, and A. R. T. Woods, Harrow, near London, England. Apparatus for measuring the flow of liquids in closed conduits. No. 1,132,399; Mar. 16; Gaz. vol. 212; p. 968.
- Simpson, Frederick G., Seattle, Wash. Electric spark-gap. No. 1,163,568; Dec. 7; Gaz. vol. 221; p. 291.
- Simpson, Frost V., assignor to Kieckhefer Box Company, Milwaukee, Wis. Box forming and sealing tray. No. 1,146,357; July 13; Gaz. vol. 216; p. 503.
- Simpson, Frost V., assignor to Kieckhefer Box Company, Milwaukee, Wis. Box forming and sealing tray. (Re-issue.) No. 14,033; Dec. 14; Gaz. vol. 221; p. 704.
- Simpson, James E. (See Paulson and Simpson.)
- Simpson, Jesse C., Elizabeth City, N. C. Automatic livestock feeder. No. 1,164,416; Dec. 14; Gaz. vol. 221; p. 634.
- Simpson, John. (See Jacobs, William J., assignor.)
- Simpson, John O. (See Barnes, Simpson, Steere, and Lawrence.)
- Simpson, John T., Newark, N. J. Aeroplane. No. 1,159,720; Nov. 9; Gaz. vol. 220; p. 491.
- Simpson, John T., and P. B. Taylor, Newark, N. J. Internal-combustion engine. No. 1,151,128; Aug. 24; Gaz. vol. 217; p. 1155.
- Simpson, Joseph, and A. A. Luke, Spokane, Wash. Brush-head. No. 1,165,292; Dec. 21; Gaz. vol. 221; p. 980.
- Simpson, Joseph F., Vineland, N. J. Game. No. 1,156,438; Oct. 12; Gaz. vol. 219; p. 413.
- Simpson, Lowe E., *et al.* (See Logan, Sylvester, assignor.)
- Simpson, Lowe E., assignor to The Orville Simpson Company, Cincinnati, Ohio. Sifting-machine. No. 1,141,660; June 1; Gaz. vol. 215; p. 204.
- Simpson, Mary E., Yates, Tex. Antispreading attachment for rails. No. 1,138,510; May 4; Gaz. vol. 214; p. 276.
- Simpson, Orville, *et al.* (See Logan, Sylvester, assignor.)
- Simpson, Ray R., and J. S. Wilmoth, Dallas, Tex. Combined envelop, shipping-tag, and index-card. No. 1,157,432; Oct. 19; Gaz. vol. 219; p. 794.
- Simpson, Selden L., assignor of one-half to W. E. Curre, Detroit, Mich. Vehicle-wheel. No. 1,141,429; June 1; Gaz. vol. 215; p. 123.
- Simpson, Thomas H. (See Giberson, Mason B., assignor.)
- Simpson, Thomas H., Detroit, Mich. Car-coupling. No. 1,138,695; May 11; Gaz. vol. 214; p. 379.
- Simpson, William B. (See Crew, Henry T., assignor.)
- Simpson, William K. (See Long and Simpson.)
- Simpson, William M. (See Coutant, Jay G., assignor.)
- Sims, David A., Fort Smith, Ark. Cattle-guard. No. 1,147,561; July 20; Gaz. vol. 216; p. 945.
- Sims, George A., Erie, Pa. Water-heater. No. 1,148,866; Aug. 3; Gaz. vol. 217; p. 136.
- Sims, Jesse C., Maynard, Mass. Combination cut-out for engine ignition systems. No. 1,149,001; Aug. 3; Gaz. vol. 217; p. 183.
- Sims, Joseph W., East Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Rotary meter. No. 1,133,408; Mar. 30; Gaz. vol. 212; p. 1419.
- Sincere, Frank E., New York, N. Y. Covering for head-dress. No. 1,116,109; July 13; Gaz. vol. 216; p. 417.
- Sinclair, Alexander M., assignor to H. V. V. Sinclair, New York, N. Y. Blank-form book. No. 1,134,766; Apr. 6; Gaz. vol. 213; p. 250.
- Sinclair, Bert L., assignor of one-half to J. W. Jones, Kansas City, Kans. Jacket and apron. No. 1,134,643; Apr. 6; Gaz. vol. 213; p. 205.
- Sinclair, George, assignor to F. G. Bradbury, St. Paul, Minn. Milking apparatus. No. 1,139,590; May 18; Gaz. vol. 214; p. 730.
- Sinclair, George, St. Paul, Minn., assignor to C. L. Niles, Anamosa, Iowa. Means for the control of the flow of air in water-tanks. No. 1,159,721; Nov. 9; Gaz. vol. 220; p. 491.
- Sinclair, George, St. Paul, Minn., assignor to C. L. Niles, Anamosa, Iowa. Air-purifier and temperature-regulator. No. 1,161,350; Nov. 23; Gaz. vol. 220; p. 1169.
- Sinclair, George, assignor of one-third to W. J. Babcock and one-third to E. R. Brokoff, St. Paul, Minn. Milking apparatus. No. 1,139,589; May 18; Gaz. vol. 214; p. 730.
- Sinclair, George B. (See Severy and Sinclair.)
- Sinclair, George B., Georgetown, Me. Starter for engines. No. 1,137,358; Apr. 27; Gaz. vol. 213; p. 1285.
- Sinclair, George B., Georgetown, Me., and L. O. Whitman, Marlboro, Mass. Fastening device. No. 1,158,573; Nov. 2; Gaz. vol. 220; p. 58.
- Sinclair, George R., and S. E. Menough, assignors to The Universal Vacuum Seal Company, Wellsville, Ohio. Domestic vacuum-sealer. No. 1,145,810; July 6; Gaz. vol. 216; p. 292.
- Sinclair, George W. (See Brown and Sinclair.)
- Sinclair, Harry R., Worcester, Mass. Check-protector. No. 1,143,556; June 15; Gaz. vol. 215; p. 941.
- Sinclair, Harry R., Worcester, Mass. Check-protector. No. 1,143,557; June 15; Gaz. vol. 215; p. 941.
- Sinclair, Hooper V. V. (See Sinclair, Alexander M., assignor.)
- Sinclair, John R., Holyoke, Mass. Dandy-roll. No. 1,140,856; May 25; Gaz. vol. 214; p. 1210.
- Sinclair, Peter S., Holyoke, Mass. Dandy-roll. No. 1,147,900; July 27; Gaz. vol. 216; p. 1091.
- Sinclair-Scott Company. (See Tuttle, James W., assignor.)
- Sinderson, John B., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Slideway construction. No. 1,128,274; Feb. 9; Gaz. vol. 211; p. 604.
- Sindlinger, Daniel C., *et al.* (See Cosseboom, Robert J., assignor.)
- Singer, Aaron, New York, N. Y. Powder-blower. No. 1,142,636; June 8; Gaz. vol. 215; p. 581.
- Singer, Ernest, *et al.* (See Eckenwiler, George M., assignor.)
- Singer, Fred, *et al.* (See Eckenwiler, George M., assignor.)
- Singer, Fritz, Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Making alizarin. No. 1,150,152; Aug. 17; Gaz. vol. 217; p. 762.
- Singer, Harold D., and H. V. D. Pratt, Hospital, Ill. Thermostat. No. 1,124,541; Jan. 12; Gaz. vol. 210; p. 513.
- Singer, Jacob J., St. Louis, Mo. Resonating stethoscope or intensifier. No. 1,143,791; June 22; Gaz. vol. 215; p. 1045.
- Singer Manufacturing Company, The. (See Abercrombie, Charles M., assignor.)
- Singer Manufacturing Company, The. (See Adams, Walter A., assignor.)
- Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
- Singer Manufacturing Company, The. (See Barron, William L., assignor.)
- Singer Manufacturing Company, The. (See Berger, Joseph, assignor.)
- Singer Manufacturing Company, The. (See Brown, Otis E., assignor.)
- Singer Manufacturing Company, The. (See Bubier, Howard F., assignor.)
- Singer Manufacturing Company, The. (See Corral, Herbert, assignor.)
- Singer Manufacturing Company, The. (See Corral and Forbes, assignors.)
- Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
- Singer Manufacturing Company, The. (See Diehl and Elchborn, assignors.)
- Singer Manufacturing Company, The. (See Diehl and Hemleb, assignors.)
- Singer Manufacturing Company, The. (See Eames, George M., assignor.)
- Singer Manufacturing Company, The. (See Eames and Finch, assignors.)
- Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)
- Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
- Singer Manufacturing Company, The. (See Gray, Charles F., assignor.)
- Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
- Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
- Singer Manufacturing Company, The. (See Hleb, Peter, assignor.)
- Singer Manufacturing Company, The. (See Horton, Charles M., assignor.)
- Singer Manufacturing Company, The. (See McArthur, Alexander S., assignor.)
- Singer Manufacturing Company, The. (See McCarte, Alexander, assignor.)
- Singer Manufacturing Company, The. (See Molyneux, George E., assignor.)
- Singer Manufacturing Company, The. (See Molyneux and Gatchell, assignors.)
- Singer Manufacturing Company, The. (See Myers, Walter, assignor.)
- Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
- Singer Manufacturing Company, The. (See Noon, Herbert E., assignor.)
- Singer Manufacturing Company, The. (See Ostrom, Free-land W., assignor.)
- Singer Manufacturing Company, The. (See Parkes, William N., assignor.)
- Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
- Singer Manufacturing Company, The. (See Rontke, Albert, assignor.)
- Singer Manufacturing Company, The. (See Stafford, Charles, assignor.)
- Singer Manufacturing Company, The. (See Ströbeck, Frans T., assignor.)
- Singer Manufacturing Company, The. (See Sullivan and Fifield, assignors.)
- Singer Manufacturing Company, The. (See Tivendale, William, assignor.)
- Singer Manufacturing Company, The. (See Woehrle, Henriette B., assignor.)
- Singer Manufacturing Company, The. (See Wood, Alfred R., assignor.)
- Singer, Martin P., Rochester, N. Y. Stationary-engine device. No. 1,151,908; Aug. 31; Gaz. vol. 217; p. 1470.

Alphabetical list of patentees—Continued.

- Singer, Marvin W., Chicago, and D. Woodhead, Evanston, Ill. Lighting-fixture. No. 1,150,894; Aug. 24; Gaz. vol. 217; p. 1076.
- Singer, Owen, Portland, Oreg. Pump. No. 1,150,826; Aug. 17; Gaz. vol. 217; p. 995.
- Singers, Earl H., assignor to Cement Products Company, Worthington, Ind. Silo-door mounting. No. 1,145,519; July 6; Gaz. vol. 216; p. 190.
- Singewald, Max, Leipzig, Germany. Apparatus for embossing the rims of disks. No. 1,153,965; Sept. 21; Gaz. vol. 218; p. 638.
- Single Service Bottle Corporation of New York. (See Angell, Edward C., assignor.)
- Single Service Package Corporation of America. (See Beadle, George W., assignor.)
- Single Service Package Corporation of America. (See Dewey, Haywood G., assignor.)
- Singleton, Chauncey M., Lincoln, Nebr. Combined wagon-brake and horse-hitching apparatus. No. 1,140,195; May 18; Gaz. vol. 214; p. 945.
- Singleton, James M. D., Dublin, Ga. Harrow. No. 1,131,566; Mar. 9; Gaz. vol. 212; p. 631.
- Singrün, Henri A. (See Audiffren and Singrün.)
- Sink, Arvel T., Detroit, Mich., and G. A. Dudley, Buffalo, N. Y. Milling-machine. No. 1,137,917; May 4; Gaz. vol. 214; p. 67.
- Sink, William R., Mooringsport, La. Extinguishing well-fires. No. 1,127,816; Feb. 9; Gaz. vol. 211; p. 446.
- Sinnes, Anton, Chicago, Ill. Handle or lever. No. 1,153,966; Sept. 21; Gaz. vol. 218; p. 638.
- Sinnott, James, Chatham, Ill. Garden implement. No. 1,156,937; Oct. 19; Gaz. vol. 219; p. 616.
- Sinnott, John, Philadelphia, Pa. Window control. No. 1,145,623; July 6; Gaz. vol. 216; p. 226.
- Sinpar Company, The. (See Morris, James W., assignor.)
- Sinsheimer, Sidney W., Swink, Colo. Concentrated product of nitrogen and potash and recovering and solidifying same. No. 1,134,921; Apr. 6; Gaz. vol. 213; p. 298.
- Sipe, Harry E. (See Sipe, John F. and H. E.)
- Sipe, John F. and H. E., New York, N. Y. Resilient wheel for vehicles. No. 1,132,127; Mar. 16; Gaz. vol. 212; p. 868.
- Sipe, John F. and H. E., New York, N. Y. Resilient wheel. No. 1,132,492; Mar. 16; Gaz. vol. 212; p. 1002.
- Sipes, Earl H., Tripp, S. D. Vehicle-wheel. No. 1,160,004; Nov. 9; Gaz. vol. 220; p. 593.
- Sipher, Edmund F. (See Farnsworth, Carpenter, Frost, Rose, and Sipher.)
- Sipp, Grant, Paterson, N. J. Driving mechanism for winding-machines. No. 1,123,812; Jan. 5; Gaz. vol. 210; p. 209.
- Sipp, Grant, Paterson, N. J. Means for guiding a reciprocating non-rotating machine element. No. 1,139,591; May 18; Gaz. vol. 214; p. 730.
- Sippert, Gottlieb, Bowdle, S. D. Windmill-regulator. No. 1,158,893; Oct. 26; Gaz. vol. 219; p. 1191.
- Sirch, Charles, New York, N. Y. Weighing-scale. No. 1,145,928; July 13; Gaz. vol. 216; p. 352.
- Sirch, Charles W., Los Angeles, Cal. Current-rectifying system. No. 1,133,447; Mar. 30; Gaz. vol. 212; p. 1432.
- Sire, Octave F., Paris, France. Dynamo-electric machine. No. 1,138,254; May 4; Gaz. vol. 214; p. 185.
- Sishower, George F., East Orange, N. J., assignor to New York Couch Bed Company, New York, N. Y. Couch-bed. No. 1,126,894; Feb. 2; Gaz. vol. 211; p. 81.
- Sishower, George F., East Orange, N. J., and L. E. Pittoni, assignors to New York Couch Bed Company, New York, N. Y. Bed-spring. No. 1,138,986; May 11; Gaz. vol. 214; p. 482.
- Siskin, Harry, Los Angeles, Cal. Cedar-chest bed. No. 1,142,537; June 8; Gaz. vol. 215; p. 547.
- Sisler, Grover C., Thomas, W. Va. Rail-clamp. No. 1,164,881; Dec. 21; Gaz. vol. 221; p. 836.
- Sissom, Clyde W., Wilson county, Kans. Traveling rural mail-box. No. 1,131,744; Mar. 16; Gaz. vol. 212; p. 729.
- Sisson, Albert H., assignor to Forsyth Brothers Company, Chicago, Ill. Car construction. No. 1,130,853; Mar. 9; Gaz. vol. 212; p. 386.
- Sisson, Henry W., Lake George, N. Y. Illuminating mechanism. No. 1,149,473; Aug. 10; Gaz. vol. 217; p. 454.
- Sisson, Henry W., Lake George, N. Y. Fire-hose coupling. No. 1,153,406; Sept. 14; Gaz. vol. 218; p. 408.
- Sisson, Hugh A., Red Bluff, Cal. Pivot-light for automobiles. No. 1,134,644; Apr. 6; Gaz. vol. 213; p. 205.
- Sisson, Isaac H., Providence, R. I., assignor, by mesne assignments, to The Hump Hairpin Manufacturing Company, Chicago, Ill. Machine for making hair-pins. No. 1,162,952; Dec. 7; Gaz. vol. 221; p. 75.
- Sisson, William D., Linnton, Oreg. Diving-bell. No. 1,134,963; Apr. 6; Gaz. vol. 213; p. 313.
- Sitta, Method F., Chicago, Ill. Window. No. 1,145,274; July 6; Gaz. vol. 216; p. 104.
- Sitta, Method F., Chicago, Ill. Signal device. No. 1,142,062; June 8; Gaz. vol. 215; p. 380.
- Sivak, John, A. Nagy, and L. Banduray, New York, N. Y. Hygienic toilet-seat. No. 1,142,374; June 8; Gaz. vol. 215; p. 489.
- Sivák, John, A. Nagy, and L. Banduray, New York, N. Y. Toilet-seat cover. No. 1,148,867; Aug. 3; Gaz. vol. 217; p. 136.
- Sjauken, John, Hoboken, N. J. Rottled-liquid-mixing machine. No. 1,156,375; Oct. 12; Gaz. vol. 219; p. 390.
- Sjeström, Peter. (See Erickson and Sjeström.)
- Sjöberg, Carl G., Malmö, Sweden. Separable button. No. 1,137,918; May 4; Gaz. vol. 214; p. 68.
- Sjöbring, Nels P., Chicago, Ill. Metal-rolling machine. No. 1,155,522; Oct. 5; Gaz. vol. 219; p. 70.
- Sjodin, Joel B., et al. (See Gronlund, Gunnar, assignor.)
- Sjögren, Carl, Wessington Springs, S. D. Vehicle-wheel. No. 1,164,763; Dec. 21; Gaz. vol. 221; p. 794.
- Sjostrom, Peter. (See Erickson and Sjostrom.)
- Skaer, Arthur H., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drill-sharpening apparatus. No. 1,159,722; Nov. 9; Gaz. vol. 220; p. 492.
- Skakson, Martinus, Missouri Valley, Iowa. Revolving harrow. No. 1,125,409; Jan. 19; Gaz. vol. 210; p. 859.
- Skalicky, Joseph C., Willow, Okla. Wrench. No. 1,131,567; Mar. 9; Gaz. vol. 212; p. 631.
- Skall, Max A., New York, N. Y. Ticket-rack and storage system for same. No. 1,141,274; June 1; Gaz. vol. 215; p. 65.
- Skall, Max A., New York, N. Y. Show-case construction. No. 1,141,275; June 1; Gaz. vol. 215; p. 66.
- Skapick, Matthew. (See Sajda and Skapick.)
- Skaupy, Franz, assignor to Deutsche Gasglühlicht Aktien-gesellschaft (Auer-gesellschaft), Berlin, Germany. Electrical gas-lamp and producing light by means of the same. No. 1,151,129; Aug. 24; Gaz. vol. 217; p. 1155.
- Skaupy, Franz, Berlin, Germany, assignor to General Electric Company, Incandescent lamp. No. 1,159,111; Nov. 2; Gaz. vol. 220; p. 242.
- Skaupy, Franz, Berlin, Germany, assignor to General Electric Company, Incandescent lamp. No. 1,160,661; Nov. 16; Gaz. vol. 220; p. 879.
- Skeels, Henry E., assignor of one-half to H. H. Simms, Rochester, N. Y. Swing or chair. No. 1,146,530; July 13; Gaz. vol. 216; p. 566.
- Skeen, Samuel T., Santoval, Ill. Miner's drill. No. 1,140,077; May 18; Gaz. vol. 214; p. 904.
- Skelly, Bernard H., Bridgeport, Conn., assignor to Greene, Tweed & Co., New York, N. Y. Intermittent operating mechanism for lubricators. No. 1,160,539; Nov. 16; Gaz. vol. 220; p. 833.
- Skelton, Harry E., Detroit, Mich. Grapple. No. 1,144,387; June 29; Gaz. vol. 215; p. 1284.
- Skelton, L. Sherman. (See Thornburg, Lincoln A., assignor.)
- Skelton, Trevis W., Lansing, Mich. Oil-delivery tank. No. 1,153,394; Oct. 26; Gaz. vol. 219; p. 1192.
- Skemp, Robert. (See Gibson and Skemp.)
- Skemp, Robert, Scottsdale, and W. Gibson, Sr., Vander-grift, assignors to American Sheet & Tin Plate Company, Pittsburgh, Pa. Coating iron or steel. No. 1,143,922; June 22; Gaz. vol. 215; p. 1090.
- Skerl, Francesco, assignor to The National Cash Register Company, Dayton, Ohio. Multiple-counter cash-register. No. 1,137,919; May 4; Gaz. vol. 214; p. 68.
- Skibbe, Otto A., and B. Salvage, assignors to W. R. Manierre, Chicago, Ill. Caster raising and lowering device. No. 1,129,429; Feb. 23; Gaz. vol. 211; p. 1093.
- Skidmore, William D., Pelham, N. Y. Dumping-car. No. 1,127,928; Feb. 9; Gaz. vol. 211; p. 484.
- Skidmore, William D., Pelham, N. Y. Dumping-car. No. 1,127,929; Feb. 9; Gaz. vol. 211; p. 485.
- Skidmore, William D., Pelham, N. Y. Dumping-car. No. 1,154,446; Sept. 21; Gaz. vol. 218; p. 803.
- Skiffington, William P., New York, N. Y. Automatic valve. No. 1,148,805; Aug. 3; Gaz. vol. 217; p. 116.
- Skiles, Frank C., Oak Park, Ill. Loose-leaf binder. No. 1,138,019; May 4; Gaz. vol. 214; p. 103.
- Skiles, James A. (See Stroup, Earl N., assignor.)
- Skillen, Charles S., Philadelphia, Pa. Corner-bracket. No. 1,147,901; July 27; Gaz. vol. 216; p. 1091.
- Skillings, Charles H. (See Anderson and Skillings.)
- Skillman, Newton. (See Obrecht and Skillman.)
- Skinderviken, Johan, assignor of one-half to J. Gibbs, Chicago, Ill. Electric safety system for railways. No. 1,159,723; Nov. 9; Gaz. vol. 220; p. 492.
- Skinkle, Julia T., et al. (See Beck, Marshall, assignor.)
- Skinner, Alba A., deceased, and F. B. Skinner, Greene, assignors, by mesne assignments, to W. A. Schleif, Syracuse, N. Y. Combined incubator and brooder. (Reissue.) No. 14,013; Nov. 16; Gaz. vol. 220; p. 1009.
- Skinner, Bronson C., assignor to L. B. Skinner Manufacturing Company, Dunedin, Fla. Box-press. No. 1,150,639; Aug. 17; Gaz. vol. 217; p. 932.
- Skinner, Bronson C., assignor to L. B. Skinner Manufacturing Company, Dunedin, Fla. Strap and line reel. No. 1,164,417; Dec. 14; Gaz. vol. 221; p. 634.
- Skinner, Charles E., Wilkinsburg, Pa., assignor to West-inghouse Electric and Manufacturing Company. Insulating fabric. No. 1,161,989; Nov. 30; Gaz. vol. 220; p. 1437.
- Skinner, Clarence F., deceased; J. Skinner, administratrix, Newark, N. J., assignor to United Shoe Machinery Company, Boston, Mass., and Paterson, N. J. Sewing-machine. No. 1,129,365; Feb. 23; Gaz. vol. 211; p. 1070.
- Skinner, Ella M., Chicago, Ill. Rest for sad-irons. No. 1,156,104; Oct. 12; Gaz. vol. 219; p. 298.
- Skinner Engine Company. (See Skinner and Williams, assignors.)

Alphabetical list of patentees—Continued.

- Skinner Engine Company. (See Stevens, Robert C., assignor.)
- Skinner, Frank H., Chicago, Ill. Dental bridge and crown. No. 1,140,537; May 25; Gaz. vol. 214; p. 1102.
- Skinner, Frank H., Chicago, Ill. Anchorage for dental bridge and crown plates. No. 1,140,538; May 25; Gaz. vol. 214; p. 1102.
- Skinner, Frank H., Chicago, Ill. Removable dental bridge attachment. No. 1,140,539; May 25; Gaz. vol. 214; p. 1102.
- Skinner, Frank W., Tompkinsville, N. Y. Connecting together metal bars, plates, or shapes by means of an interlocked rolled joint. No. 1,163,784; Dec. 14; Gaz. vol. 221; p. 413.
- Skinner, Fred B. (See Skinner, Alba A. and F. B.) (Re-issue.)
- Skinner, Henry P., Union, Miss. Safety saddle-stirrup. No. 1,148,197; July 27; Gaz. vol. 216; p. 1197.
- Skinner, Henry W., Maywood, Ill. Automatic supervision of service in hotels and the like. No. 1,131,278; Mar. 9; Gaz. vol. 212; p. 532.
- Skinner Irrigation Company, The. (See Coles, Walter H., assignor.)
- Skinner, James A., East Orange, and H. D. Thomas, Bloomfield, N. J. Valve mechanism. No. 1,134,493; Apr. 6; Gaz. vol. 213; p. 149.
- Skinner, James M., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-separator and making same. No. 1,130,640; Mar. 2; Gaz. vol. 212; p. 279.
- Skinner, Jennie, administratrix. (See Skinner, Clarence F.)
- Skinner, John H., and D. E. Rilev, Allegan, Mich. Train-stopping apparatus. No. 1,158,734; Nov. 2; Gaz. vol. 220; p. 112.
- Skinner, Le Grand, Erie, Pa. Steam-engine. No. 1,159,112; Nov. 2; Gaz. vol. 220; p. 242.
- Skinner, Le Grand, and E. F. Williams, assignors to Skinner Engine Company, Erie, Pa. Steam-engine valve-gear. No. 1,142,853; June 15; Gaz. vol. 215; p. 695.
- Skinner, Lewis B., Denver, Colo. Stirrer for roasting-furnaces. No. 1,164,130; Dec. 14; Gaz. vol. 221; p. 534.
- Skinner, Lewis B., Denver, Colo. Ore-furnace. No. 1,164,131; Dec. 14; Gaz. vol. 221; p. 535.
- Skinner, Lewis B., Denver, Colo. Ore-furnace. No. 1,164,132; Dec. 14; Gaz. vol. 221; p. 535.
- Skinner, Noah T. E., Newark, Ohio. Automobile-radiator. No. 1,140,196; May 18; Gaz. vol. 214; p. 945.
- Skinner, Oramel H. (See Allison and Skinner.)
- Skinner, Robert L. (See Johnson and Skinner.)
- Skinner, Roland G., *et al.* (See Funder, Mathew, assignor.)
- Skinner, William B., Castor, La. Device for spacing the rail-sections of a railway-track. No. 1,157,815; Oct. 26; Gaz. vol. 219; p. 987.
- Skinner, William H., Foristell, Mo. Auto attachment. No. 1,158,735; Nov. 2; Gaz. vol. 220; p. 113.
- Skirvin, David E., Mount Angel, Oreg. Seed-cleaner. No. 1,133,069; Mar. 23; Gaz. vol. 212; p. 1262.
- Skitt, James H. (See Drum and Skitt.)
- Skitt, James H., assignor to Smith, Drum & Company, Philadelphia, Pa. Automatic gas-burner-controlling mechanism. No. 1,132,883; Mar. 23; Gaz. vol. 212; p. 1103.
- Skjervem, Henry O., Petersburg, N. D. Ratchet-wrench. No. 1,164,764; Dec. 21; Gaz. vol. 221; p. 795.
- Sklar, Jacob, Philadelphia, Pa. Water-heater. No. 1,127,532; Feb. 9; Gaz. vol. 211; p. 344.
- Sklar, Jacob, Philadelphia, Pa. Waist-closure. No. 1,162,260; Nov. 30; Gaz. vol. 220; p. 1533.
- Sklarek, Jacques. (See Weiler, Wilhelm, assignor.)
- Sklovsky, Max, Moline, Ill., assignor to Deere & Company, Moline, Ill. No. 1,124,344; Jan. 12; Gaz. vol. 210; p. 441.
- Skogstad, Martin O., and O. N. Finbraaten, Grand Meadow, Minn. Weighing-scale. No. 1,126,108; Jan. 26; Gaz. vol. 210; p. 1141.
- Skowbo, Arthur W., Armstrong, Iowa. Shaving-brush. No. 1,143,451; June 15; Gaz. vol. 215; p. 907.
- Skreberg, Hans, Big Bend township, Chippewa county, Minn. Wagon-box lining. No. 1,151,972; Aug. 31; Gaz. vol. 217; p. 1492.
- Skröder, Erik G., Winchendon, Mass. Attachment for brooms. No. 1,140,490; May 25; Gaz. vol. 214; p. 1084.
- Skunda, John, Urey, Pa. Ice-creeper. No. 1,144,155; June 22; Gaz. vol. 215; p. 1175.
- Skuttle, John L., Mason City, Iowa. Automatic water control for furnace air-moisteners. No. 1,150,709; Aug. 17; Gaz. vol. 217; p. 955.
- Slaback, Lawrence K. (See McLaughlin and Mill, assignors.)
- Slaby, Rudolf. (See Daimler and Slaby.)
- Slaby, Rudolf, Stuttgart, assignor to Daimler-Motoren-Gesellschaft, Unterürkheim, Germany. Carbureter. No. 1,160,662; Nov. 16; Gaz. vol. 220; p. 879.
- Slade, Albert J., Jr. (See Hughes and Slade.)
- Slade, Albert J., Jr., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 1,147,562; July 20; Gaz. vol. 216; p. 945.
- Slade, Alton P. (See Slade, Leon D. and A. P.)
- Slade, Harry, Wakefield, England. Header-joint for fuel-economizers. No. 1,161,078; Nov. 23; Gaz. vol. 220; p. 1070.
- Slade, Leon D. and A. P., assignors to Gleason Works, Rochester, N. Y. Tempering-machine. No. 1,126,307; Jan. 26; Gaz. vol. 210; p. 1212.
- Sladek, Edward. (See Glowinski and Sladek.)
- Slag Steam Generator Company. (See Battu, Leonce L., assignor.)
- Slag Steam Generator Company. (See Smoot, Charles H., assignor.)
- Slaght, Daniel C., and W. T. Miller, Easton, Pa.; said Slaght assignor of his right to R. N. Dyer, East Orange, N. J., and P. S. Dyer, Easton, Pa. Traction-wheel. No. 1,145,088; July 6; Gaz. vol. 216; p. 42.
- Slagow, Frank, Bretz, W. Va. Mail-box. No. 1,136,979; Apr. 27; Gaz. vol. 213; p. 1144.
- Slater, George W. (See Webber and Slater.)
- Slater, Harvey, assignor to Charles F. Elmes Engineering Works, Chicago, Ill. High pressure valve. No. 1,143,236; June 15; Gaz. vol. 215; p. 832.
- Slater, Horace G., Los Angeles, assignor to himself, and D. Fields, Watts, Cal. Packing means for cigars. No. 1,148,806; Aug. 3; Gaz. vol. 217; p. 116.
- Slater, Mabel H., Webster, Mass. Pincushion. No. 1,163,813; Dec. 7; Gaz. vol. 221; p. 29.
- Slatten, William H., and W. F. Nolan, Chicago, Ill. Car-roof construction. No. 1,145,708; July 6; Gaz. vol. 216; p. 257.
- Slatten, William H., and W. F. Nolan, Chicago, Ill. Car-roof construction. No. 1,149,093; Aug. 3; Gaz. vol. 217; p. 214.
- Slattengren, Henry A., Lindstrom, Minn. Bottle. No. 1,127,687; Feb. 9; Gaz. vol. 211; p. 395.
- Slatter, Thomas, San Francisco, Cal. Folding umbrella. No. 1,139,913; May 18; Gaz. vol. 214; p. 845.
- Slatter, William A., and J. J. Kindell, Columbus, Ohio. Foldable porch-swing. No. 1,146,358; July 13; Gaz. vol. 216; p. 503.
- Slattery, Martin P., Coboes, and C. A. Linehan, Schenectady, N. Y. Automatic train-stop. No. 1,150,788; Aug. 17; Gaz. vol. 217; p. 982.
- Slattery, Matthew F., and C. A. Diehm, Philadelphia, Pa. Safety-bridge. No. 1,158,866; Nov. 2; Gaz. vol. 220; p. 161.
- Slattery, William. (See Whitman, Roland E., assignor.)
- Slaugh, Peter. (See Harrison, Charles, assignor.)
- Slaughter and Company. (See Strohmenger, Arthur P., assignor.)
- Slavicek, Victor, Vienna, Austria-Hungary. Continuous process for the distillation and rectification of alcoholic liquids. No. 1,136,559; Apr. 20; Gaz. vol. 213; p. 960.
- Slawson, Thomas, near Rea, Mo. Beet-topper. No. 1,149,411; Aug. 10; Gaz. vol. 217; p. 433.
- Slawson, William H., Dayton, Tenn. Package-tie. No. 1,131,279; Mar. 9; Gaz. vol. 212; p. 533.
- Slaymaker, Charles M. (See Clifford, Slaymaker, and Bilger.)
- Slaymaker Lock Manufacturing Corporation. (See Slaymaker and Miller, assignors.)
- Slaymaker, Samuel R., and G. M. Miller, assignors to Slaymaker Lock Manufacturing Corporation, Lancaster, Pa. Padlock. No. 1,151,623; Aug. 31; Gaz. vol. 217; p. 1372.
- Slaysman, Alexander, Jr., Hamilton, Md. Drier. No. 1,139,815; May 18; Gaz. vol. 214; p. 810.
- Slear, Elias F., Collingswood, N. J. Heat-distributor for gas-stoves. No. 1,161,805; Nov. 23; Gaz. vol. 220; p. 1326.
- Slee, Arthur W., Brooklyn, N. Y. Wire-cutter attachment. No. 1,164,765; Dec. 21; Gaz. vol. 221; p. 795.
- Slee, Herbert T., Warwick, R. I. Intercommunicating telephone system. No. 1,138,255; May 4; Gaz. vol. 214; p. 186.
- Slee, Richard, Swiftwater, Pa., assignor of one-half to F. S. Banks & Company, New York, N. Y. Antitoxin-syringe. No. 1,155,012; Sept. 28; Gaz. vol. 218; p. 1024.
- Sleeper, Charles W. (See Lang and Sleeper.)
- Sleeper, Frank H., Worcester, Mass. Machine for reducing wire. No. 1,137,920; May 4; Gaz. vol. 214; p. 69.
- Sleeper, Frank H., Worcester, Mass., assignor to New Idea Fencing Dropper Company, Limited, Rockhampton, Australia. Machine for making fencing-droppers. No. 1,148,467; July 27; Gaz. vol. 216; p. 1290.
- Sleeper, Joseph J., Moores, Pa. Dish-washing machine. No. 1,123,604; Jan. 5; Gaz. vol. 210; p. 139.
- Sleeper, Joseph J., Moores, Pa. Cooker. No. 1,137,359; Apr. 27; Gaz. vol. 213; p. 1285.
- Sleeper, Oliver S., assignor to Buffalo Foundry and Machine Company, Buffalo, N. Y. Drying liquids. No. 1,146,965; July 20; Gaz. vol. 216; p. 737.
- Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Impregnating apparatus. No. 1,154,447; Sept. 21; Gaz. vol. 218; p. 804.
- Sleeper, Otis H., Exeter, N. H. Nut-lock. No. 1,156,105; Oct. 12; Gaz. vol. 219; p. 298.
- Sleeper, Otis H., Exeter, N. H. Lock-nut. No. 1,159,283; Nov. 2; Gaz. vol. 220; p. 303.
- Sleeth, Montgomery, Pittsburgh, Pa. Wire-bending machine. No. 1,165,293; Dec. 21; Gaz. vol. 221; p. 980.

Alphabetical list of patentees—Continued.

- Sleffel, William J., assignor to The Kirk Latty Manufacturing Company, Cleveland, Ohio. Axle construction. No. 1,141,078; May 25; Gaz. vol. 214; p. 1286.
- Sleffel, William J., assignor to The Kirk-Latty Manufacturing Company, Cleveland, Ohio. Combined front gear and steering connection for children's vehicles. No. 1,156,023; Oct. 5; Gaz. vol. 219; p. 242.
- Sleicher, Ralph H., Troy, N. Y. Ambulance. No. 1,150,710; Aug. 17; Gaz. vol. 217; p. 955.
- Sleicher, Ralph H., assignor to The Hospital Appliance Company, Troy, N. Y. Hospital apparatus. No. 1,138,582; May 4; Gaz. vol. 214; p. 299.
- Sleicher, Ralph H., assignor to The Hospital Appliance Company, Troy, N. Y. Ball-caster. No. 1,154,448; Sept. 21; Gaz. vol. 218; p. 805.
- Slentz, Albertus O., deceased, Canton, Ohio; W. E. Slentz, administrator. Clutch. No. 1,153,831; Sept. 14; Gaz. vol. 218; p. 558.
- Slentz, Warren E., administrator. (See Slentz, Albertus O.)
- Sletten, Henry, and A. N. Lidell, Minneapolis, Minn. Device for sinking foundation-tubes. No. 1,154,137; Sept. 21; Gaz. vol. 218; p. 697.
- Slick, Edwin E., Westmont, Pa. Compound rail. No. 1,125,748; Jan. 19; Gaz. vol. 210; p. 979.
- Slick, Edwin E., Westmont borough, Pa. Metallic tie. No. 1,125,888; Jan. 19; Gaz. vol. 210; p. 1027.
- Slick, Edwin E., Westmont borough, Pa. Brick for hot-blast stoves. No. 1,130,031; Mar. 2; Gaz. vol. 212; p. 66.
- Slick, Edwin E., Westmont borough, Pa. Spring. No. 1,139,732; May 18; Gaz. vol. 214; p. 781.
- Slick, Edwin E., Westmont borough, Pa. Metallic railway-tie. No. 1,142,278; June 8; Gaz. vol. 215; p. 456.
- Slick, Edwin E., Westmont borough, Pa. Making flanged shapes. No. 1,143,735; June 22; Gaz. vol. 215; p. 1026.
- Slick, Edwin E., Westmont borough, Pa. Making reinforcing-bars. No. 1,154,664; Sept. 28; Gaz. vol. 218; p. 908.
- Slick, Edwin E., Westmont borough, Pa. Drop-ball. No. 1,154,734; Sept. 28; Gaz. vol. 218; p. 930.
- Slick, Edwin E., Johnstown, assignor of one-half to L. L. Knox, Avalon, Pa. Welding. No. 1,161,419; Nov. 23; Gaz. vol. 220; p. 1195.
- Sliemers, John W., St. Joseph, Tenn. Stovepipe-joint. No. 1,163,958; Dec. 14; Gaz. vol. 221; p. 474.
- Slingluff, Harry G., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing apparatus. No. 1,141,497; June 1; Gaz. vol. 215; p. 146.
- Slingluff, Harry G., Allegheny, Pa., assignor to Pittsburgh Plate Glass Company. Furnace for the manufacture of glass articles. No. 1,164,766; Dec. 21; Gaz. vol. 221; p. 796.
- Slipp, George F., assignor to T. C. Entwistle Company, Lowell, Mass. Lease-forming mechanism. No. 1,147,654; July 20; Gaz. vol. 216; p. 978.
- Slocombe, Charles H. (See Andrew, Slocombe, and Kingham.)
- Sloan, Augustus K., Brooklyn, N. Y. Condenser. No. 1,150,895; Aug. 24; Gaz. vol. 217; p. 1076.
- Sloan, Augustus K., Jr., Brooklyn, N. Y. Detector. No. 1,152,444; Sept. 7; Gaz. vol. 218; p. 22.
- Sloan, Frank T., New York, N. Y. Tank. No. 1,130,936; Mar. 9; Gaz. vol. 212; p. 415.
- Sloan, Harry E. (See Loveland and Sloan.)
- Sloan, Harry E., assignor to The Cushman Chuck Company, Hartford, Conn. Chuck. No. 1,159,875; Nov. 9; Gaz. vol. 220; p. 548.
- Sloan, Jacques. (See Bohon, Emile, assignor.)
- Sloan, John F., Peoria, Ill. Automobile. No. 1,127,533; Feb. 9; Gaz. vol. 211; p. 344.
- Sloan, W. M., et al. (See Dueberg, Helmuth F. C., assignor.)
- Slobinski, Ananias. (See Alexandrowsky and Slobinski.)
- Slocumb, Frank F., Philadelphia, Pa., assignor to F. F. Slocumb & Co., Incorporated. Leather-staking machine. No. 1,130,769; Mar. 9; Gaz. vol. 212; p. 358.
- Slocum, Avram & Slocum. (See Avram, Mois H., assignor.)
- Slocum, Benjamin A., Rochester, N. Y. Photographic-shutter operator. No. 1,154,892; Sept. 28; Gaz. vol. 218; p. 983.
- Slocum, Charles B., Quincy, Ill. Sandal. No. 1,142,854; June 15; Gaz. vol. 215; p. 695.
- Sloman, Eugene H., Detroit, Mich. Closet for travelling vehicles. No. 1,161,895; Nov. 30; Gaz. vol. 220; p. 1404.
- Slomer, Joseph, assignor to Cyclone Fence Company, Waukegan, Ill. Fence-machine. No. 1,160,332; Nov. 16; Gaz. vol. 220; p. 760.
- Sloop, John. (See Lear and Sloop.)
- Sloper, Thomas, Devizes, England. Forming gas-bags or other fluid-retaining envelopes for airships or other purposes. No. 1,140,921; May 25; Gaz. vol. 214; p. 1234.
- Sloper, Thomas, Devizes, England. Mold for the manufacture of rubber tires. No. 1,147,563; July 20; Gaz. vol. 216; p. 945.
- Sloper, Thomas, Devizes, England. Hydroaeroplane. No. 1,148,340; July 27; Gaz. vol. 216; p. 1248.
- Sloper, Thomas, Devizes, England. Hydroaeroplane-float and hydroplane. No. 1,152,058; Aug. 31; Gaz. vol. 217; p. 1522.
- Sloper, Thomas, Devizes, England. Hydroaeroplane, hydroplane, and the like. No. 1,161,896; Nov. 30; Gaz. vol. 220; p. 1405.
- Slowe, Ada M., executrix. (See Slowe, Preston C.)
- Slowe, Preston C., deceased; A. M. Slowe, executrix, assignor of one-third to A. S. Weill, Philadelphia, Pa. Track-cleaner. No. 1,150,462; Aug. 17; Gaz. vol. 217; p. 869.
- Slutz, Charles B., et al. (See Kunkle, Harry C., assignor.)
- Sluus, Mathis J., Elmwood, Conn. Safety appliance for gas-valves. No. 1,127,300; Feb. 2; Gaz. vol. 211; p. 223.
- Sly, Joseph W. (See Baldwin and Sly.)
- Smack, Cyril A., Long Branch, N. J. Life-preserver cushion. No. 1,127,930; Feb. 9; Gaz. vol. 211; p. 485.
- Smagel, Peter, Avoca, Pa. Household-press. No. 1,161,540; Nov. 23; Gaz. vol. 220; p. 1236.
- Smagel, Peter, Avoca, Pa. Fish seine or net. No. 1,128,376; Feb. 16; Gaz. vol. 211; p. 688.
- Smakal, Frank C., Midas, Nev. Bank-protecting apparatus. No. 1,142,736; June 8; Gaz. vol. 215; p. 612.
- Small, Alfred B. and C. C., Lake City, Fla. Transmission-gearing. No. 1,156,938; Oct. 19; Gaz. vol. 219; p. 617.
- Small, Byron C., Thayer, Ill. Corn harvester and husker. No. 1,136,624; Apr. 20; Gaz. vol. 213; p. 983.
- Small, Byron C., Centralia, Ill. Corn husking and harvesting machine. No. 1,160,777; Nov. 16; Gaz. vol. 220; p. 920.
- Small, Carleton C. (See Small, Alfred B. and C. C.)
- Small, Chesley T., St. Louis, Mo. Can-filling machine. No. 1,154,665; Sept. 28; Gaz. vol. 218; p. 908.
- Small, Chesley T., St. Louis, Mo., assignor, by mesne assignments, to Automatic Can Filling Machinery Company, Newark, N. J. Holder for applying slip-covers to receptacles. No. 1,133,330; Mar. 30; Gaz. vol. 212; p. 1390.
- Small, Curry S. (See Rhoads and Small.)
- Small, Frederick E., Needham, Mass. Piston-packing. No. 1,129,910; Mar. 2; Gaz. vol. 212; p. 26.
- Small, Henry J., San Francisco, and O. B. Schoenky, Sacramento, Cal., assignors to W. P. Murphy, Chicago, Ill. Car-roof. No. 1,128,067; Feb. 9; Gaz. vol. 211; p. 533.
- Small, Howard, Wyncote, assignor to Santo Manufacturing Company, Philadelphia, Pa. Vacuum cleaning apparatus. No. 1,130,114; Mar. 2; Gaz. vol. 212; p. 94.
- Small, Howard, Wyncote, assignor to Vulcan Motor Devices Company, Philadelphia, Pa. Junction or terminal block. No. 1,149,599; Aug. 10; Gaz. vol. 217; p. 499.
- Small, J. W. (See Langton, George H., assignor.)
- Small, Walter E., and H. R. Hilton, Los Angeles, Cal. Safety-grip for plungers of elevators. No. 1,150,324; Oct. 12; Gaz. vol. 219; p. 370.
- Small, William E., Brooklyn, N. Y. Handle-die guard. No. 1,145,811; July 6; Gaz. vol. 216; p. 292.
- Small, William E., Dallas, Tex. Silo-anchor. No. 1,165,029; Dec. 21; Gaz. vol. 221; p. 887.
- Smallbone Manufacturing Company. (See Maechler, Walter, assignor.)
- Smalley, George O., assignor to The Graphite Lubricating Company, Boundbrook, N. J. Self-lubricating bearing. No. 1,153,647; Sept. 14; Gaz. vol. 218; p. 492.
- Smalley, Harvey S., Boundbrook, N. J., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Asphalt roofing. No. 1,164,965; Dec. 21; Gaz. vol. 221; p. 866.
- Smalley Manufacturing Co. (See Frick, Orlando C., assignor.)
- Smalley, William W. (See Bache, Leigh S., assignor.)
- Smalley, William W., Midland, Cal. Curtain-pole. No. 1,125,749; Jan. 19; Gaz. vol. 210; p. 979.
- Smallman, James W., Blackdown, near Leamington, England. Single-trigger mechanism for double-barrel guns. No. 1,160,333; Nov. 16; Gaz. vol. 220; p. 761.
- Smallwood, George T. (See Smallwood, Graeme T., assignor.)
- Smallwood, Graeme T., assignor of one-half to G. T. Smallwood, Washington, D. C. Coat. No. 1,162,523; Nov. 30; Gaz. vol. 220; p. 1623.
- Smart, Charles S., and W. W. Linder, said Linder assignor to T. V. Terrell, Coolemeec, N. C. Bobbin or quill stripping machine. No. 1,144,006; June 22; Gaz. vol. 215; p. 1121.
- Smart, Henry C., assignor to Standard Oil Company of New York, New York, N. Y. Can-filling machine. No. 1,138,511; May 4; Gaz. vol. 214; p. 276.
- Smart, Mason L. (See Wright, Smart, and Hopper.)
- Smart, Mason L. (See Wright, Smart, Hopper, and Thompson.)
- Smart, Percy J., Carthage, Mo. Plate and pan lifter. No. 1,146,029; July 13; Gaz. vol. 216; p. 389.
- Smart, Rupert W. (See Plumb, Smart, and Sautter.)
- Smart, Russel S., Ottawa, Ontario, Canada. Tooth-paste-dispensing device. No. 1,156,106; Oct. 12; Gaz. vol. 219; p. 298.
- Smart, Walter J., New York, N. Y. Apparatus for purging guns. No. 1,160,778; Nov. 16; Gaz. vol. 220; p. 920.
- Smedal, Greggar, La Crosse, Wis. Attachment for typewriters. No. 1,128,730; Feb. 16; Gaz. vol. 211; p. 810.

Alphabetical list of patentees—Continued.

- Smedal, Greggar, La Crosse, Wis. Type-writer attachment. No. 1,149,792; Aug. 10; Gaz. vol. 217; p. 569.
- Smedberg, Edmund M., New York, N. Y. Garment-supporter. No. 1,156,187; Oct. 12; Gaz. vol. 219; p. 325.
- Smedman, John, Forestville, assignor of one-third to P. Engelwood, Bristol, Conn. Belt-shifter. No. 1,140,773; May 25; Gaz. vol. 214; p. 1179.
- Smedman, John, Forestville, assignor of one-third to P. Engelwood, Bristol, Conn. Belt-shifting device. No. 1,140,774; May 25; Gaz. vol. 214; p. 1179.
- Smedstad, Osborne, Portland, Oreg. Ratchet-drill. No. 1,130,770; Mar. 9; Gaz. vol. 212; p. 358.
- Smeeth, William F., Bangalore, India. Clutch for winding-engines or other machines. No. 1,140,293; May 18; Gaz. vol. 214; p. 976.
- Smelik, Frank S., Nokomis, Ill. Cuspidor. No. 1,130,937; Mar. 9; Gaz. vol. 212; p. 416.
- Smernoff, Morris, New Haven, Conn. Adjustable support for portable display-frames. No. 1,149,692; Aug. 10; Gaz. vol. 217; p. 535.
- Smetzer, Edward A., Cleveland, Ohio. Lamp lighter and extinguisher. No. 1,123,605; Jan. 5; Gaz. vol. 210; p. 140.
- Smiddy, Jerome J., Honolulu, Hawaii. Turbine gas-engine. No. 1,132,742; Mar. 23; Gaz. vol. 212; p. 1141.
- Smidley, Roy P., Fayette county, Ohio. Lamp-bracket. No. 1,166,014; Dec. 28; Gaz. vol. 221; p. 1270.
- Smieja, John F., Royaltown, Minn. Harness-buckle. No. 1,141,842; June 1; Gaz. vol. 215; p. 263.
- Smiley, John B., South Omaha, Nebr. Intermediate shield for pneumatic tires. No. 1,160,334; Nov. 16; Gaz. vol. 220; p. 761.
- Smillie, A. J. (See Nix, John E., assignor.)
- Smilie, Robert H., Berkeley, Cal. Carbureter. No. 1,139,914; May 18; Gaz. vol. 214; p. 845.
- Smith, Abram E., Brooklyn, N. Y. Discharge appliance for railway tank-cars. No. 1,136,375; Apr. 20; Gaz. vol. 213; p. 894.
- Smith, Adam M., assignor of one-half to J. Reiter, Minneapolis, Minn. Top-spinning pistol. No. 1,133,756; Mar. 30; Gaz. vol. 212; p. 1543.
- Smith, Adolph H., and G. W. Nibbe, Chicago, Ill. Rail-anchor. No. 1,139,816; May 18; Gaz. vol. 214; p. 811.
- Smith, Albert D., assignor to National Sewing Machine Company, Belvidere, Ill. Slack-thread take-up for sewing-machines. No. 1,127,534; Feb. 9; Gaz. vol. 211; p. 344.
- Smith, Albert D., assignor to National Sewing Machine Company, Belvidere, Ill. Tension device for sewing-machines. No. 1,128,377; Feb. 16; Gaz. vol. 211; p. 688.
- Smith, Albert D., assignor to Koons Oil Furnace Company, Anderson, Ind. Oil-burner. No. 1,132,238; Mar. 23; Gaz. vol. 212; p. 1320.
- Smith, Albert E. (See Simonds and Smith.)
- Smith, Albert E., Dunkirk, N. Y. Nut-lock. No. 1,155,844; Oct. 5; Gaz. vol. 219; p. 182.
- Smith, Albert E., Washington, D. C., assignor to The T. A. Smith Company, Milwaukee, Wis. Concrete-mixer and the like. No. 1,129,132; Feb. 23; Gaz. vol. 211; p. 989.
- Smith, Albert E., and C. G. Simonds, Milwaukee, Wis. Crusher. No. 1,127,101; Feb. 2; Gaz. vol. 211; p. 154.
- Smith, Albert F., Siloam Springs, Mo. Trap. No. 1,123,410; Jan. 5; Gaz. vol. 210; p. 73.
- Smith, Albert W., Washington, D. C. Electric starter for automobile-engines. No. 1,144,438; June 29; Gaz. vol. 215; p. 1301.
- Smith, Alfred E., Boston, Mass. Valve. No. 1,123,813; Jan. 5; Gaz. vol. 210; p. 210.
- Smith, Alfred K. T., and P. Good, London, England. Electromagnetic power device. No. 1,123,411; Jan. 5; Gaz. vol. 210; p. 74.
- Smith, Algernon T., Birkdale, England. Vehicle-wheel. No. 1,131,965; Mar. 16; Gaz. vol. 212; p. 809.
- Smith, Algernon T., Birkdale, England. Vehicle-wheel. No. 1,166,268; Dec. 28; Gaz. vol. 221; p. 1365.
- Smith, Algernon V., Houston Heights, Tex. Hydrocarbon-burner. No. 1,143,792; June 22; Gaz. vol. 215; p. 1045.
- Smith, Allen C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Centering device for electric switches. No. 1,140,408; May 25; Gaz. vol. 214; p. 1053.
- Smith, Allen C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator safety device. No. 1,148,257; July 27; Gaz. vol. 216; p. 1218.
- Smith, Alta L., Richmond, Va. Printing-press attachment. No. 1,140,197; May 18; Gaz. vol. 214; p. 945.
- Smith, Amon C., Clarendon, Tex. Wagon-step. No. 1,141,017; May 25; Gaz. vol. 214; p. 1266.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company, Numbering-head. No. 1,125,196; Jan. 19; Gaz. vol. 210; p. 781.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company, Numbering-head. No. 1,132,493; Mar. 16; Gaz. vol. 212; p. 1002.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company, Numbering-machine. No. 1,133,510; Mar. 30; Gaz. vol. 212; p. 1454.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company, Numbering-head. No. 1,138,323; May 4; Gaz. vol. 214; p. 212.
- Smith, Andrew, San Mateo, Cal. Double-walled strainer for culverts, drainage-casings, &c., and connecting means therefor. No. 1,165,137; Dec. 21; Gaz. vol. 221; p. 927.
- Smith, Anna M. (See Haepner, John F., assignor.)
- Smith, Annesley D., Mount Vernon, N. Y. Chart for garment-patterns. No. 1,136,055; Apr. 20; Gaz. vol. 213; p. 780.
- Smith, Archie, Leetonia, assignor to The Youngstown Iron & Steel Company, Youngstown, Ohio. Making alloys. No. 1,131,799; Mar. 16; Gaz. vol. 212; p. 751.
- Smith, Arthur C. (See Blanchard, Smith, and Bouldry.)
- Smith, Arthur F., Zebra, Mo. Rail-joint. No. 1,134,237; Apr. 6; Gaz. vol. 213; p. 57.
- Smith, Arthur J., St. Louis, Mo. Sink-strainer. No. 1,127,301; Feb. 2; Gaz. vol. 211; p. 223.
- Smith, Arthur J., Hazleton, Pa. Paper-bag seal. No. 1,128,192; Feb. 9; Gaz. vol. 211; p. 576.
- Smith, Arthur K., St. Louis, Mo., assignor, by mesne assignments, to Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 1,138,696; May 11; Gaz. vol. 214; p. 379.
- Smith, Arthur K., St. Louis, Mo., assignor to Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 1,145,443; July 6; Gaz. vol. 216; p. 164.
- Smith, Arthur K., St. Louis, Mo., assignor to Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 1,145,444; July 6; Gaz. vol. 216; p. 164.
- Smith, Arthur W. (See Farnham, Smith, and Phelps.)
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,126,895; Feb. 2; Gaz. vol. 211; p. 81.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,127,931; Feb. 9; Gaz. vol. 211; p. 486.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,127,932; Feb. 9; Gaz. vol. 211; p. 486.
- Smith, Arthur W., New York, assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,132,743; Mar. 23; Gaz. vol. 212; p. 1142.
- Smith, Arthur W., New York, assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,147,821; July 27; Gaz. vol. 216; p. 1062.
- Smith, Arthur W., New York, assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,147,902; July 27; Gaz. vol. 216; p. 1091.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,147,981; July 27; Gaz. vol. 216; p. 1119.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,161,541; Nov. 23; Gaz. vol. 220; p. 1236.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,161,542; Nov. 23; Gaz. vol. 220; p. 1236.
- Smith, Asa E., Hillsboro, Tex. Lever-latch. No. 1,143,452; June 15; Gaz. vol. 215; p. 907.
- Smith, August, and C. S. Wickes, Camden, N. J. Making sound-records. No. 1,152,445; Sept. 7; Gaz. vol. 218; p. 22.
- Smith, August J., Milwaukee, Wis. Animal-trap. No. 1,147,822; July 27; Gaz. vol. 216; p. 1063.
- Smith, Bassett E., Ramsey, Ill. Safety attachment for valves for faucets. No. 1,153,264; Sept. 14; Gaz. vol. 218; p. 356.
- Smith, Benjamin, Brooklyn, N. Y., assignor to The Barrel & Cask Closure Company, Bung-key. No. 1,129,049; Feb. 16; Gaz. vol. 211; p. 925.
- Smith, Benjamin S., Sydney, New South Wales, Australia. Apparatus for the wet dressing of sulfid ores. No. 1,136,622; Apr. 20; Gaz. vol. 213; p. 983.
- Smith, Benjamin S., Sydney, New South Wales, Australia. Holder for blotting-paper and the like. No. 1,165,549; Dec. 28; Gaz. vol. 221; p. 1107.
- Smith, Bertrum F., Natrona, Pa. Automatic car-wheel lubricator. No. 1,125,750; Jan. 19; Gaz. vol. 210; p. 980.
- Smith Brothers. (See Sackett, Harrie A., assignor.)
- Smith, Calvin, assignor of one-half to S. Kamm, Newark, N. J. Pumping apparatus. No. 1,126,109; Jan. 26; Gaz. vol. 210; p. 141.
- Smith Cannery Machines Co. (See Waugh, Edward H., assignor.)
- Smith Cannery Machines Company. (See Miller, Thomas B., assignor.)
- Smith Cannery Machines Company. (See Miller and Cox, assignors.)
- Smith, Carlton L., Saginaw, Mich. Apparatus for polishing plate-glass. No. 1,125,751; Jan. 19; Gaz. vol. 210; p. 980.
- Smith, Carlton L., Saginaw, Mich. Vacuum lifting-machine. No. 1,125,752; Jan. 19; Gaz. vol. 210; p. 980.
- Smith, Cary R. (See Bowie and Smith.)
- Smith, Charles A., Brattleboro, Vt. Automobile-starter. No. 1,128,911; Feb. 16; Gaz. vol. 211; p. 875.

Alphabetical list of patentees—Continued.

- Smith, Charles B., Crafton, Pa. Shoe-lace fastener. No. 1,154,066; Sept. 21; Gaz. vol. 218; p. 673.
- Smith, Charles B. W., St. Louis, Mo. Baling-press. No. 1,141,088; May 25; Gaz. vol. 214; p. 1289.
- Smith, Charles D., assignor of one-half to L. Morner, Dayton, Ohio. Carbureter. No. 1,145,871; July 6; Gaz. vol. 216; p. 314.
- Smith, Charles E. (See Bates and Smith.)
- Smith, Charles E., assignor to Underwood Typewriter Company, New York, N. Y. Type-writer centering-scale. No. 1,152,923; Sept. 7; Gaz. vol. 218; p. 199.
- Smith, Charles E., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,154,213; Sept. 21; Gaz. vol. 218; p. 722.
- Smith, Charles E., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,154,344; Sept. 21; Gaz. vol. 218; p. 769.
- Smith, Charles F., Carter, Tenn. Combined header and stripper. No. 1,146,600; July 13; Gaz. vol. 216; p. 590.
- Smith, Charles F., New York, N. Y. Clothes-line support. No. 1,159,284; Nov. 2; Gaz. vol. 220; p. 303.
- Smith, Charles F., Bridgeport, Conn., assignor to Mercantile Corporation, New York, N. Y. Gathering and landing machine. No. 1,123,606; Jan. 5; Gaz. vol. 210; p. 140.
- Smith, Charles F., and J. Robertson, Dutchess Junction, N. Y. Chain-clamp. No. 1,145,812; July 6; Gaz. vol. 216; p. 292.
- Smith, Charles H., Rhyolite, Nev. File-case. No. 1,133,889; Mar. 30; Gaz. vol. 212; p. 1591.
- Smith, Charles H., Spokane, Wash. Wheel-flange oiler. No. 1,161,897; Nov. 30; Gaz. vol. 220; p. 1405.
- Smith, Charles H., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp. No. 1,148,198; July 27; Gaz. vol. 216; p. 1197.
- Smith, Charles L. (See Goldberg and Smith.)
- Smith, Charles L., San Francisco, Cal. Rear-axle construction for motor-vehicles. No. 1,138,900; May 11; Gaz. vol. 214; p. 452.
- Smith, Charles M., Neodesha, Kans. Knuckle-joint for motor-vehicles. No. 1,158,323; Oct. 26; Gaz. vol. 219; p. 1166.
- Smith, Charles R., Toledo, Ohio. Shipping-receptacle. No. 1,124,669; Jan. 12; Gaz. vol. 210; p. 559.
- Smith, Charles R., assignor of one-half to P. McLaughlin, Chicago, Ill. Billiard-cue. No. 1,160,335; Nov. 16; Gaz. vol. 220; p. 761.
- Smith, Charles S., deceased; W. H. Thornley, Providence, R. I., administrator. Belt. No. 1,134,238; Apr. 6; Gaz. vol. 213; p. 57.
- Smith, Charles T., Newark, N. J. Mouthpiece-protector for telephone-transmitters. No. 1,136,283; Apr. 20; Gaz. vol. 213; p. 861.
- Smith, Charles T., Newark, N. J. Mouthpiece-protector for telephone-transmitters. No. 1,136,284; Apr. 20; Gaz. vol. 213; p. 862.
- Smith, Charles T., Newark, N. J. Street-cleaning apparatus for melting snow and the like. No. 1,160,205; Nov. 16; Gaz. vol. 220; p. 717.
- Smith, Charles W., North Baltimore, Ohio. Railway-tie. No. 1,126,110; Jan. 26; Gaz. vol. 210; p. 1141.
- Smith, Charles W., Chicago, Ill. Theatrical-scenery device. No. 1,147,823; July 27; Gaz. vol. 216; p. 1063.
- Smith, Charles W., Grand Rapids, Mich. Varnishing-machine. No. 1,164,023; Dec. 14; Gaz. vol. 221; p. 496.
- Smith, Chetwood, Worcester, Mass. Alarm control for sprinkler systems. No. 1,134,645; Apr. 6; Gaz. vol. 213; p. 205.
- Smith, Chris N., assignor of one-half to David C. Cook Publishing Company, Elgin, Ill. Electroplating apparatus. No. 1,129,241; Feb. 23; Gaz. vol. 211; p. 1027.
- Smith, Christopher C. (See Ryan and Smith.)
- Smith, Christopher C., Eugene, Oreg. Spoke-repair ring. No. 1,166,015; Dec. 28; Gaz. vol. 221; p. 1270.
- Smith, Christopher J. (See Smith, Frank G., assignor.)
- Smith, Christopher J., St. Louis, Mo. Device for identifying criminals and other persons through combination-picture. No. 1,155,523; Oct. 5; Gaz. vol. 219; p. 71.
- Smith, Cicero G., Palisades, Colo., assignor to Smith Spring Wheel Company, Albuquerque, N. Mex. Spring-wheel for vehicles. No. 1,131,616; Mar. 9; Gaz. vol. 212; p. 649.
- Smith, Clarence E. (See Barcus and Smith.)
- Smith, Clarence E., Brownsburg, Ind. Rain-indicator. No. 1,137,674; Apr. 27; Gaz. vol. 213; p. 1390.
- Smith, Clarence E., New Britain, Conn., assignor to Worcester Metal Goods Company, Worcester, Mass. Hinge. No. 1,127,933; Feb. 9; Gaz. vol. 211; p. 486.
- Smith, Clarence E., New Britain, Conn., assignor to Worcester Metal Goods Company, Worcester, Mass. Catch for travelling-bags. No. 1,160,458; Nov. 16; Gaz. vol. 220; p. 804.
- Smith, Clarence I. W., assignor to H. Haubens and C. A. Sigafos, Omaha, Nebr. Addressing-machine. No. 1,144,617; June 29; Gaz. vol. 215; p. 1360.
- Smith, Clarence W., Rome, Me. Drinking attachment for brooders. No. 1,159,540; Nov. 9; Gaz. vol. 220; p. 426.
- Smith, Claude, assignor to Claude Smith Co., Chicago, Ill. Brick-kiln. No. 1,159,539; Nov. 9; Gaz. vol. 220; p. 425.
- Smith, Clyde, Cleveland, Ohio, assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Telephone system. No. 1,137,360; Apr. 27; Gaz. vol. 213; p. 1285.
- Smith, Cullen R., Perris, Cal. Machine for cutting stalks. No. 1,156,439; Oct. 12; Gaz. vol. 219; p. 413.
- Smith, Cyrus H., Tonica, Ill. Gasolene-motor respirator. No. 1,135,142; Apr. 13; Gaz. vol. 213; p. 422.
- Smith, Cyrus H., Tonica, Ill. Signalling apparatus. No. 1,153,265; Sept. 14; Gaz. vol. 218; p. 356.
- Smith, Daily, et al. (See Rundquist, William, assignor.)
- Smith, Dane M. (See Dodokln, Paul, assignor.)
- Smith, Daniel W. (See Bowker and Smith.)
- Smith, David D., Chicago, Ill. Toy piano with music-box. No. 1,123,607; Jan. 5; Gaz. vol. 210; p. 140.
- Smith, David M., assignor of three-eighths to S. H. Jamison and one-fourth to J. Poorman, Greensburg, Pa. Automatic train-braking system. No. 1,124,067; Jan. 5; Gaz. vol. 210; p. 295.
- Smith, De Wane B., Deerfield, N. Y. Gravity-sprayer. No. 1,158,574; Nov. 2; Gaz. vol. 220; p. 58.
- Smith, Delaven, et al. (See Beadle, George W., assignor.)
- Smith, Dell R., Blanchard, Wash. Ice-cream-cone carrier. No. 1,140,540; May 25; Gaz. vol. 214; p. 1102.
- Smith, Dennis W. (See Colborne and Smith.)
- Smith, Dora A., Myrtle, Miss. Attachment for cooking utensils. No. 1,128,538; Feb. 16; Gaz. vol. 211; p. 745.
- Smith, Drum and Company. (See Drum and Skitt, assignors.)
- Smith, Drum & Company. (See Skitt, James H., assignor.)
- Smith, Dyer. (See Aylsworth and Smith.)
- Smith, Edgar W., assignor of two-sixths to F. Marcello, two-sixths to J. H. Kinkade, and one-sixth to W. G. Tucker, Winnemucca, Nev. Brake. No. 1,159,113; Nov. 2; Gaz. vol. 220; p. 243.
- Smith, Edmund H., Brandywine Summit, Pa. Reversible seat for wheeled plows. No. 1,158,807; Nov. 2; Gaz. vol. 220; p. 161.
- Smith, Edmund L., assignor of one-half to H. Lewinson, San Francisco, Cal. Molding for screens. No. 1,142,918; June 15; Gaz. vol. 215; p. 718.
- Smith, Edward, Kaskaskia, Ill. Brooder. No. 1,149,225; Aug. 10; Gaz. vol. 217; p. 365.
- Smith, Edward A., New York, N. Y., assignor to Otis Elevator Company. Safety device for elevators. No. 1,132,744; Mar. 23; Gaz. vol. 212; p. 1142.
- Smith, Edward C., Toronto, Ontario, Canada, assignor to National Carbon Company, Cleveland, Ohio. Dry cell. No. 1,137,030; Apr. 27; Gaz. vol. 213; p. 1164.
- Smith, Edward F., assignor to J. Anstice, Rochester, N. Y. Potato-masher. No. 1,148,547; Aug. 3; Gaz. vol. 217; p. 22.
- Smith, Edward F., assignor to J. Anstice, Rochester, N. Y. Slicing-machine. No. 1,155,965; Oct. 5; Gaz. vol. 219; p. 222.
- Smith, Edward W., assignor to F. A. Blount, Philadelphia, and C. C. Hollowell, Penfield, Pa. Flying-machine. No. 1,132,288; Mar. 16; Gaz. vol. 212; p. 929.
- Smith, Elbert E., et al. (See Dueberg, Helmuth F. C., assignor.)
- Smith, Elda G., and F. J. Mantel, assignors to Crouse-Hinds Company, Syracuse, N. Y. Incandescent-electric-lamp fixture. No. 1,156,560; Oct. 12; Gaz. vol. 219; p. 455.
- Smith, Elias A. C., New York, N. Y. Metallurgy of copper. No. 1,134,767; Apr. 6; Gaz. vol. 213; p. 250.
- Smith, Elizabeth J., Larchmont, N. Y. Machine for attaching hooks and eyes. No. 1,152,855; Sept. 7; Gaz. vol. 218; p. 175.
- Smith, Ellston, and G. W. Snook, assignors of one-third to W. E. Peck, Buffalo, N. Y. Clamp for bag-holders. No. 1,129,911; Mar. 2; Gaz. vol. 212; p. 27.
- Smith, Elmer G., Fostoria, Ohio. Rail-connecting means. No. 1,141,843; June 1; Gaz. vol. 215; p. 263.
- Smith, Elmer H. (See Smith, John W. and E. H.)
- Smith, Elmer H., Minneapolis, Minn. Cutting-torch. No. 1,136,490; Apr. 20; Gaz. vol. 213; p. 937.
- Smith, Elmer H., Minneapolis, Minn. Acetylene-blowpipe. No. 1,136,491; Apr. 20; Gaz. vol. 213; p. 937.
- Smith, Elmer S., assignor to Float-Jet Carburetor Co., Newark, N. J. Carburetor. No. 1,141,276; June 1; Gaz. vol. 215; p. 66.
- Smith, Elsworth J., Hastings, Iowa. Automatic stock-feeder. No. 1,136,843; Apr. 20; Gaz. vol. 213; p. 1060.
- Smith, Ernest C., assignor to Acme Harvesting Machine Co., Peoria, Ill. Push-rake. No. 1,130,032; Mar. 2; Gaz. vol. 212; p. 66.
- Smith, Ernest C., assignor to Acme Harvesting Machine Co., Peoria, Ill. Side-delivery rake. No. 1,146,966; July 20; Gaz. vol. 216; p. 737.
- Smith, Ernest C., assignor to Acme Harvesting Machine Co., Peoria, Ill. Mowing-machine. No. 1,146,967; July 20; Gaz. vol. 216; p. 738.
- Smith, Ernest C., assignor to Acme Harvesting Machine Co., Peoria, Ill. Finger-bar-aligning mechanism. No. 1,146,968; July 20; Gaz. vol. 216; p. 738.
- Smith, Ernest C., assignor to Walter A. Wood Mowing & Reaping Machine Company, Hooisick Falls, N. Y. Self-dumping hay-rake. No. 1,164,133; Dec. 14; Gaz. vol. 221; p. 536.

- Smith, Ernest H., Cleveland, Ohio. Packing. No. 1,147,564; July 20; Gaz. vol. 216; p. 946.
- Smith, Ernest W. (See Merritt and Smith.)
- Smith, Floyd. (See Bissell and Smith.)
- Smith, Frank, Kansas City, Mo. Stove. No. 1,142,123; June 8; Gaz. vol. 215; p. 403.
- Smith, Frank C., Minneapolis, Minn. Expansion-tank. No. 1,149,865; Aug. 10; Gaz. vol. 217; p. 596.
- Smith, Frank E. and G. W., Middletown, N. Y. Wrench-lock. No. 1,148,410; July 27; Gaz. vol. 216; p. 1272.
- Smith, Frank E., and J. Martin, Delphos, Ohio. Combined bookcase, desk, and mantel. No. 1,164,024; Dec. 14; Gaz. vol. 221; p. 497.
- Smith, Frank G., assignor to C. J. Smith, Jersey City, N. J. Sewer-tank. No. 1,164,418; Dec. 14; Gaz. vol. 221; p. 634.
- Smith, Frank K., Manhattan, Kans. Truss. No. 1,131,633; Mar. 9; Gaz. vol. 212; p. 656.
- Smith, Frank L., Chicago, Ill. Automatic foot-throttle for motor-vehicles. No. 1,161,898; Nov. 30; Gaz. vol. 220; p. 1405.
- Smith, Frank M., Kansas City, Mo. Grinding attachment for lathes. No. 1,161,260; Nov. 23; Gaz. vol. 220; p. 1137.
- Smith, Frank P., Ferguson, Mo. Non-refillable bottle. No. 1,157,127; Oct. 19; Gaz. vol. 219; p. 684.
- Smith, Frank R., assignor to W. Smith Grubber Company, La Crescent, Minn. Stump-puller. No. 1,140,409; May 25; Gaz. vol. 214; p. 1054.
- Smith, Frank W., *et al.* (See Sprong, Severn D., assignor.)
- Smith, Frank W., Westfield, N. J., assignor to Sundh Electric Company, New York, N. Y. Motor controller and indicator. No. 1,144,888; June 29; Gaz. vol. 215; p. 1284.
- Smith, Frank W., assignor of one-fourth to W. E. Allison and one-fourth to W. E. Hudson, Tulsa, Okla. Oil-burner. No. 1,157,332; Oct. 19; Gaz. vol. 219; p. 758.
- Smith, Franklin E., Weymouth, assignor to Vickers Limited, Westminster, England. Automobile torpedo. No. 1,147,275; July 20; Gaz. vol. 216; p. 844.
- Smith, Franklin P. (See McClure, Edward, assignor.)
- Smith, Fred L., *et al.* (See Clark, Arthur I., assignor.)
- Smith, Fred W., Raymore, Mo. Silo. No. 1,135,143; Apr. 13; Gaz. vol. 213; p. 423.
- Smith, Frederick G., New Bedford, Mass. Bottle-cap and opener. No. 1,155,285; Sept. 28; Gaz. vol. 218; p. 1116.
- Smith, Frederick J., Montreal, Quebec, Canada. Electrical-fixture fittings. No. 1,129,024; Feb. 16; Gaz. vol. 211; p. 915.
- Smith, Frederick W., Hempstead, and C. Dipple, Jr.; said Smith assignor to Hecla Iron Works, Brooklyn, N. Y. Operating device for bank screen-wickets. No. 1,163,785; Dec. 14; Gaz. vol. 221; p. 413.
- Smith, Frederick W., and R. E. Gearhart, Maryville, Mo.; said Gearhart assignor to said Smith. Plastic-brick machine. No. 1,165,632; Dec. 28; Gaz. vol. 221; p. 1137.
- Smith, Friend W., Jr., assignor to The King Machine Company, Bridgeport, Conn. Ironing-machine. No. 1,145,169; July 6; Gaz. vol. 216; p. 68.
- Smith, Friend W., Jr., and A. H. Christie, assignors to The King Machine Company, Bridgeport, Conn. Ironing-machine. No. 1,145,170; July 6; Gaz. vol. 216; p. 68.
- Smith, Gary B., Chicago, Ill. Corrugated-link bed fabric. No. 1,148,722; Aug. 3; Gaz. vol. 217; p. 85.
- Smith, Gary B., Chicago, Ill. Bed-spring fabric. No. 1,149,793; Aug. 10; Gaz. vol. 217; p. 570.
- Smith, Gary B., Chicago, Ill. Machine for making bed fabric. No. 1,153,266; Sept. 14; Gaz. vol. 218; p. 356.
- Smith, Gary B., Chicago, Ill. Wire-twisting machine. No. 1,165,550; Dec. 28; Gaz. vol. 221; p. 1107.
- Smith, George A., South Hill, Va. Successive and selective assessor. No. 1,154,814; Sept. 28; Gaz. vol. 218; p. 957.
- Smith, George B., Waldwick, N. J. Game. No. 1,134,922; Apr. 6; Gaz. vol. 213; p. 299.
- Smith, George E., Hudson, Colo. Road drag or grader. No. 1,151,835; Aug. 31; Gaz. vol. 217; p. 1444.
- Smith, George H., Webster, W. Va. Photograph-holder. No. 1,136,056; Apr. 20; Gaz. vol. 213; p. 781.
- Smith, George T., Dallas, Tex. Flour purifier and drier. No. 1,154,067; Sept. 21; Gaz. vol. 218; p. 674.
- Smith, George T., Fort Worth, Tex. Purifying flour during the manufacture thereof. No. 1,154,547; Sept. 21; Gaz. vol. 218; p. 837.
- Smith, George W. (See Smith, Frank E. and G. W.)
- Smith, George W., assignor to The Elastic Wheel Company, Baltimore, Md. Vehicle-wheel. No. 1,166,416; Dec. 28; Gaz. vol. 221; p. 1417.
- Smith, George Z., assignor of one-third to T. H. Rogers and one-third to G. Follansbee, Follansbee, W. Va. Sheet transporting and stacking apparatus. No. 1,141,277; June 1; Gaz. vol. 215; p. 67.
- Smith, Gilbert, Chicago, Ill., assignor to Chicago Shipping & Receipt Book Company. Loose-leaf binder. No. 1,129,242; Feb. 23; Gaz. vol. 211; p. 1027.
- Smith, Gilman B., Montclair, N. J. Collar-support. No. 1,143,453; June 15; Gaz. vol. 215; p. 907.
- Smith, Goodwin B., Philadelphia, Pa. Nursing-vest. No. 1,136,727; Apr. 20; Gaz. vol. 213; p. 1020.
- Smith, Goodwin B., Philadelphia, Pa. Bust-supporter. No. 1,139,448; May 11; Gaz. vol. 214; p. 645.
- Smith, Goodwin B., Philadelphia, Pa. Catamenial sack. No. 1,148,548; Aug. 3; Gaz. vol. 217; p. 23.
- Smith, Guy P., Highland Terrace, Mo. Lantern-slide. No. 1,149,693; Aug. 10; Gaz. vol. 217; p. 535.
- Smith, Hallie M., Bedford, Ind. Tooth-brush. No. 1,166,269; Dec. 28; Gaz. vol. 221; p. 1365.
- Smith, Harold T., Coeymans, N. Y. Shock-absorber. No. 1,156,376; Oct. 12; Gaz. vol. 219; p. 391.
- Smith, Harold T., Willis, assignor of one-half to J. Ehrsam, Bern, Kans. Canvas butter for binders. No. 1,138,987; May 11; Gaz. vol. 214; p. 483.
- Smith, Harry, near Sulphur Grove, Ohio. Hay-loading device. No. 1,134,290; Apr. 6; Gaz. vol. 213; p. 76.
- Smith, Harry A. (See Bowie and Smith, assignors.)
- Smith, Harry B. (See Reifsnnyder and Smith.)
- Smith, Harry B., Brooklyn, N. Y. Forming box-shells. No. 1,152,359; Aug. 31; Gaz. vol. 217; p. 1626.
- Smith, Harry B., New York, N. Y., assignor to Stokes & Smith Company, Philadelphia, Pa. Box-hinging machine. No. 1,166,016; Dec. 28; Gaz. vol. 221; p. 1271.
- Smith, Harry B., Brooklyn, N. Y., and J. D. Reifsnnyder, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Corner cutting and bending machine. No. 1,160,540; Nov. 16; Gaz. vol. 220; p. 834.
- Smith, Harry F., Lexington, Ohio. Calorimetry of gaseous fuels. No. 1,134,768; Apr. 6; Gaz. vol. 213; p. 251.
- Smith, Harry F., Lexington, Ohio. Purification of gas. No. 1,140,198; May 18; Gaz. vol. 214; p. 945.
- Smith, Harry J., Lakewood, assignor to The Hill Clutch Company, Cleveland, Ohio. Sand-supporting device for molding-flasks. No. 1,159,114; Nov. 2; Gaz. vol. 220; p. 243.
- Smith, Harry J., Lakewood, assignor to The Hill Clutch Company, Cleveland, Ohio. Collar-oiling journal-box. No. 1,160,663; Nov. 16; Gaz. vol. 220; p. 880.
- Smith, Harry W. (See Kempff and Smith.)
- Smith, Harry W., West Chester, Pa. Crayon-cutter. No. 1,131,431; Mar. 9; Gaz. vol. 212; p. 585.
- Smith, Harry W., West Chester, Pa. Crayon composition. No. 1,131,432; Mar. 9; Gaz. vol. 212; p. 586.
- Smith, Harry W., West Chester, Pa. Making crayons. No. 1,131,433; Mar. 9; Gaz. vol. 212; p. 586.
- Smith, Hartley L. (See Duff and Smith.)
- Smith & Hemenway Company. (See Smith, Landon P., assignor.)
- Smith & Hemenway Company. (See Woodward, Frank R., assignor.)
- Smith, Henry A., Elgin, Ill. Rake-tooth point. No. 1,163,698; Dec. 14; Gaz. vol. 221; p. 383.
- Smith, Henry C., Detroit, Mich. Power-hammer. No. 1,154,666; Sept. 28; Gaz. vol. 218; p. 908.
- Smith, Henry C., Detroit, Mich. Power-hammer. No. 1,154,667; Sept. 28; Gaz. vol. 218; p. 909.
- Smith, Henry C., Philadelphia, Pa. Meat-holding device. No. 1,159,285; Nov. 2; Gaz. vol. 220; p. 304.
- Smith, Henry L. (See Price, Gomer W., assignor.)
- Smith, Henry M., Pawtucket, R. I., assignor of forty one-hundredths to S. M. Banner, New York, N. Y. Labeling-machine. No. 1,151,223; Aug. 24; Gaz. vol. 217; p. 1189.
- Smith, Henry T., Providence, R. I. Radiator. No. 1,157,188; Oct. 19; Gaz. vol. 219; p. 706.
- Smith, Herbert A., Pickford, Mich. Drying-rack for negatives. No. 1,165,724; Dec. 28; Gaz. vol. 221; p. 1171.
- Smith, Herbert H., Bay Shore, N. Y. Binder for hollow-tile building-blocks. (Reissue.) No. 13,980; Sept. 14; Gaz. vol. 218; p. 578.
- Smith, Herman R. (See Wainwright and Smith.)
- Smith, Horace F., and H. S. Dano, Los Angeles, Cal. Dental articulator. No. 1,135,629; Apr. 13; Gaz. vol. 213; p. 591.
- Smith, Horace H., *et al.* (See Beatty, Wallace A., assignor.)
- Smith, Horace M., assignor to The Liquid Carbonic Company, Chicago, Ill. Mixing-tank for carbonators. No. 1,165,210; Dec. 21; Gaz. vol. 221; p. 953.
- Smith, Horace S., Youngstown, Ohio, assignor to H. S. Smith, trustee. Detachable sole and heel for boots and shoes. No. 1,141,844; June 1; Gaz. vol. 215; p. 264.
- Smith, Howard, Detroit, Mich., assignor to McCord Manufacturing Company, Chicago, Ill. Force-feed lubricator. No. 1,132,627; Mar. 23; Gaz. vol. 212; p. 1100.
- Smith, Howard F. (See Simpson, Charles M., assignor.)
- Smith, Howard R., Washington, Pa. Attachment for telephones. No. 1,153,349; Sept. 14; Gaz. vol. 218; p. 386.
- Smith, Hugh A., assignor of one-fourth to G. Flexner and one-fourth to M. Abraham, Louisville, Ky. Wagon-scale. No. 1,130,771; Mar. 9; Gaz. vol. 212; p. 358.
- Smith, Irving T., New York, N. Y. Bottle safety device. No. 1,150,640; Aug. 17; Gaz. vol. 217; p. 932.
- Smith, Irwin W., Dayton, Ohio. Trolley-retriever. No. 1,129,912; Mar. 2; Gaz. vol. 212; p. 27.
- Smith, Isaac A. (See Holt and Rippey, assignors.)
- Smith, Ivan M., assignor of one-half to M. L. Fyke, South Milwaukee, Wis. Carbureter. No. 1,158,324; Oct. 26; Gaz. vol. 219; p. 1167.
- Smith, Jabez M., Malvern, Ark. Vehicle-tire. No. 1,136,285; Apr. 20; Gaz. vol. 213; p. 862.

Alphabetical list of patentees—Continued.

- Smith, James. (See Smith, Michael A., assignor.)
 Smith, James A., Fate, Tex. Collapsible box. No. 1,136,179; Apr. 20; Gaz. vol. 213; p. 824.
 Smith, James B., Manchester, N. H. Automatic fire-alarm. No. 1,156,717; Oct. 12; Gaz. vol. 219; p. 510.
 Smith, James C., San Francisco, Cal. Abrasive implement. No. 1,139,817; May 18; Gaz. vol. 214; p. 811.
 Smith, James C., assignor to The Machine Parts Company, Elyria, Ohio. Velocipede. No. 1,141,278; June 1; Gaz. vol. 215; p. 67.
 Smith, James E., Atlantic City, N. J. Train-stopping apparatus. No. 1,146,110; July 13; Gaz. vol. 216; p. 417.
 Smith, James H., assignor to J. Hungerford Smith Company, Rochester, N. Y. Cherry-pitting machine. No. 1,155,449; Oct. 5; Gaz. vol. 219; p. 43.
 Smith, James H., Salford, and C. Nuttall, Marple, England. Gear-box. No. 1,164,419; Dec. 14; Gaz. vol. 221; p. 634.
 Smith, James M. (See Knight and Smith.)
 Smith, James M., assignor of one-half to J. Griffard, Wengler, Cal. Saw-set. No. 1,139,818; May 18; Gaz. vol. 214; p. 811.
 Smith, James R., Mechanicsville, N. Y. Flange for drains, vents, and other purposes. No. 1,150,231; Aug. 17; Gaz. vol. 217; p. 789.
 Smith, Jay B., Girard, Ala., assignor of one-half to J. L. Betts, Muscogee county, Ga. Implement for pulling nails, fence-wires, &c. No. 1,143,983; June 15; Gaz. vol. 215; p. 777.
 Smith, Jesse A. B. (See Wernery and Smith.)
 Smith, Jesse A. B., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Carbon-sheet. No. 1,133,331; Mar. 30; Gaz. vol. 212; p. 1390.
 Smith, Jesse A. B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,149,794; Aug. 10; Gaz. vol. 217; p. 570.
 Smith, Jesse A. B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,150,827; Aug. 17; Gaz. vol. 217; p. 995.
 Smith, Jesse A. B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,152,563; Sept. 7; Gaz. vol. 218; p. 68.
 Smith, Jesse A. B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,152,856; Sept. 7; Gaz. vol. 218; p. 176.
 Smith, Jesse A. B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,160,459; Nov. 16; Gaz. vol. 220; p. 804.
 Smith, Jesse E., assignor to Osgood Bradley Car Company, Worcester, Mass. Car-seat. No. 1,161,899; Nov. 30; Gaz. vol. 220; p. 1406.
 Smith, John, New York, N. Y. Device for replacing and adjusting coils in field-guns. No. 1,136,728; Apr. 20; Gaz. vol. 213; p. 1021.
 Smith, John, assignor to said John Smith and H. Utard, New York, N. Y. Nut-lock. No. 1,139,819; May 18; Gaz. vol. 214; p. 812.
 Smith, John A. (See Laganke and Smith.)
 Smith, John A., Rochester, N. Y. Sash. No. 1,153,350; Sept. 14; Gaz. vol. 218; p. 386.
 Smith, John A., San Gabriel, Cal. Combined triangle ball rack and carrier. No. 1,157,053; Oct. 19; Gaz. vol. 219; p. 659.
 Smith, John A., assignor of one-half to L. Couch, Wallowa, Oreg. Band-saw. No. 1,123,412; Jan. 5; Gaz. vol. 210; p. 74.
 Smith, John C., Louisville, Ky. Electric switch. No. 1,123,413; Jan. 5; Gaz. vol. 210; p. 74.
 Smith, John C., Louisville, Ky. System of motor control. No. 1,149,600; Aug. 10; Gaz. vol. 217; p. 499.
 Smith, John E., Kansas City, Kans. Rotary engine. No. 1,161,165; Nov. 23; Gaz. vol. 220; p. 1101.
 Smith, John G., McMinnville, Tenn. Churn. No. 1,127,302; Feb. 2; Gaz. vol. 211; p. 223.
 Smith, John H., Hammond, Tex. Ratchet-clutch. No. 1,140,199; May 18; Gaz. vol. 214; p. 946.
 Smith, John J., Brookline, assignor to W. Nash, Marblehead, Mass. Treating sewage, garbage, and the like. No. 1,123,414; Jan. 5; Gaz. vol. 210; p. 75.
 Smith, John J. P., Charleston, S. C. Lubricating device for engines. No. 1,144,257; June 22; Gaz. vol. 215; p. 1211.
 Smith, John K. (See Du Bose, Joel H., assignor.)
 Smith, John L. (See West and Smith.)
 Smith, John L., Savannah, Mo. Screen-shoe for grist-mills. No. 1,147,195; July 20; Gaz. vol. 216; p. 816.
 Smith, John M. (See McColgan and Smith.)
 Smith, John R., McDonough, assignor of forty one-hundredths to H. H. Newman, Sandersville, Ga. Saw-sharpening device. No. 1,143,084; June 15; Gaz. vol. 215; p. 777.
 Smith, John S., Burlington, Wis. Cultivator. No. 1,157,433; Oct. 19; Gaz. vol. 219; p. 795.
 Smith, John T. (See Flogerzi, John B., assignor.)
 Smith, John W., Chicago, Ill. Detachable heel. No. 1,127,934; Feb. 9; Gaz. vol. 211; p. 487.
 Smith, John W., Chicago, Ill. Aeroplane. No. 1,136,560; Apr. 20; Gaz. vol. 213; p. 960.
 Smith, John W., Youngstown, Ohio. Circuit-closing device. No. 1,133,448; Mar. 30; Gaz. vol. 212; p. 1432.
 Smith, John W., Three Rivers, Mich. Vaginal powder-sprayer. No. 1,145,520; July 6; Gaz. vol. 216; p. 191.
 Smith, John W., Spokane, Wash. Combined scoop and sifter for flour and meal. No. 1,149,094; Aug. 3; Gaz. vol. 217; p. 214.
 Smith, John W., Chicago, Ill., assignor, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Vacuum-cleaner. No. 1,128,630; Feb. 16; Gaz. vol. 211; p. 777.
 Smith, John W. and E. H., Minneapolis, Minn. Acetylene-blowpipe. No. 1,136,492; Apr. 20; Gaz. vol. 213; p. 937.
 Smith, John W. and E. H., Minneapolis, Minn. Acetylene-blowpipe. No. 1,152,985; Sept. 7; Gaz. vol. 218; p. 222.
 Smith, John X., Watertown, N. Y. Fracture-clamp. No. 1,156,440; Oct. 12; Gaz. vol. 219; p. 413.
 Smith, Jonathan H. (See Roughton, Thomas H., assignor.)
 Smith, Joseph G., and H. Swarting, New York, N. Y. Gimp or plaited cord machine. No. 1,159,286; Nov. 2; Gaz. vol. 220; p. 304.
 Smith, Joseph J., Cambridge, assignor to W. Firth, Chestnut Hill, Mass. Stop-motion for looms. No. 1,154,449; Sept. 21; Gaz. vol. 218; p. 805.
 Smith, Joseph W. (See Topley, William H., assignor.)
 Smith, Joseph W., New York, N. Y. Garter. No. 1,165,457; Dec. 28; Gaz. vol. 221; p. 1076.
 Smith, Josiah, Fremont, Ohio. Staple-drawing tool. No. 1,164,420; Dec. 14; Gaz. vol. 221; p. 635.
 Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Suspension railway. No. 1,137,361; Apr. 27; Gaz. vol. 213; p. 1286.
 Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Suspension-railway. No. 1,138,697; May 11; Gaz. vol. 214; p. 379.
 Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Suspension-railway. No. 1,142,124; June 8; Gaz. vol. 215; p. 403.
 Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Truck. No. 1,151,729; Aug. 31; Gaz. vol. 217; p. 1406.
 Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Truck. No. 1,152,564; Sept. 7; Gaz. vol. 218; p. 69.
 Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Pump. No. 1,159,876; Nov. 9; Gaz. vol. 220; p. 549.
 Smith, Kline & French Co. (See Kline, Clarence M., assignor.)
 Smith, Landon P., assignor to Smith & Hemenway Company, Incorporated, New York, N. Y. Glass-cutter. No. 1,134,292; Apr. 6; Gaz. vol. 213; p. 76.
 Smith, Le Roy M., Chicago, Ill. Scale-beam. No. 1,131,165; Mar. 9; Gaz. vol. 212; p. 492.
 Smith, Lenious D., Helix, Oreg. Pumping-jack. No. 1,145,813; July 6; Gaz. vol. 216; p. 293.
 Smith, Leo C., assignor to Smith System Heating Co., Minneapolis, Minn. Heating and ventilating system. No. 1,138,805; May 11; Gaz. vol. 214; p. 419.
 Smith, Leo M., Camden, N. J. Collapsible high chair. No. 1,164,421; Dec. 14; Gaz. vol. 221; p. 635.
 Smith, Leonard J., Dayton, Ohio. Combination end and coupling for display-cases. No. 1,124,345; Jan. 12; Gaz. vol. 210; p. 442.
 Smith, Lewis H., assignor of one-third to T. J. Riggs and one-third to J. T. Floessel, Olean, N. Y. Throttle-handle for pneumatic tools. No. 1,150,641; Aug. 17; Gaz. vol. 217; p. 932.
 Smith Locomotive Adjustable Hub Plate Company. (See Sams, Albert J., assignor.)
 Smith, Louis E. (See Broadbooks and Smith.)
 Smith, Louis R., Colorado Springs, assignor to The Universal Indexing Company, Denver, Colo. Book-index. No. 1,132,222; Mar. 16; Gaz. vol. 212; p. 903.
 Smith, Lyle G., St. Louis, Mich. Rotary engine. No. 1,144,258; June 22; Gaz. vol. 215; p. 1211.
 Smith, Lynn H., Escanaba, Mich. Soap-holder. No. 1,135,857; Apr. 13; Gaz. vol. 213; p. 671.
 Smith, Marcus L., Scranton, Pa. Pneumatic washing appliance. No. 1,138,806; May 11; Gaz. vol. 214; p. 420.
 Smith, Mark, Reddish, near Stockport, England. Bronzing and like machine. No. 1,136,623; Apr. 20; Gaz. vol. 213; p. 983.
 Smith, Mark, South Reddish, near Stockport, assignor to Taylor, Garnett, Evans & Company Limited, Manchester, England. Bronzing-machine. No. 1,157,434; Oct. 19; Gaz. vol. 219; p. 795.
 Smith, Marvin A., *et al.* (See Marker, Henry H., assignor.)
 Smith, Maud H., *et al.* (See Smith, Rudgyard I., assignor.)
 Smith, Michael A., assignor to J. Smith, New York, N. Y. Package-tie. No. 1,141,018; May 25; Gaz. vol. 214; p. 1266.
 Smith, Milton N. (See Dugan and Smith.)
 Smith, Murray E., Pittsfield, Mass., assignor to General Electric Company. Iris-diaphragm. No. 1,161,739; Nov. 23; Gaz. vol. 220; p. 1303.
 Smith, Myron A., New York, N. Y. Device for marking with plastic materials. No. 1,147,982; July 27; Gaz. vol. 216; p. 1120.
 Smith, Nellie V. (See Van Deventer, James E., assignor.)

- Smith, Newton, East Orange, N. J. Steering-wheel lock. No. 1,142,764; June 8; Gaz. vol. 215; p. 624.
- Smith, Newton H., Hamilton, Ill. Lawn-swing. No. 1,143,454; June 15; Gaz. vol. 215; p. 907.
- Smith, Oakley, Chicago, Ill. Diagnostic and treating table. No. 1,143,651; June 22; Gaz. vol. 215; p. 999.
- Smith, Oakley, Chicago, Ill. Chart for the spinal column. No. 1,143,652; June 22; Gaz. vol. 215; p. 999.
- Smith, Oberlin, Bridgeton, N. J. Guard for wheels. No. 1,130,207; Mar. 2; Gaz. vol. 212; p. 127.
- Smith, Oliver A., assignor of one-half to G. A. Russell, Springfield, Mass. Apparatus for safeguarding automobiles from theft. No. 1,182,128; Mar. 16; Gaz. vol. 212; p. 869.
- Smith, Oliver C., assignor of one-half to E. H. Ellis, Cincinnati, Ohio. Egg-beater. No. 1,145,275; July 6; Gaz. vol. 216; p. 104.
- Smith, Ona E., San Jose, Cal. Paper fruit-container. No. 1,155,524; Oct. 5; Gaz. vol. 219; p. 71.
- Smith, Orbin F., Moline, Ill., assignor to Moline Plow Company. Furrow-opener attachment. No. 1,159,115; Nov. 2; Gaz. vol. 220; p. 243.
- Smith, Oscar, Doylestown, Ohio. Means for mounting a lens display-sign. No. 1,127,102; Feb. 2; Gaz. vol. 211; p. 155.
- Smith, Oscar A., Cleveland, Ohio. Priming-cup. No. 1,153,457; Sept. 14; Gaz. vol. 218; p. 426.
- Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Stud-threading machine. No. 1,153,456; Sept. 14; Gaz. vol. 218; p. 425.
- Smith, Oscar A., and B. F. Rindfleisch, assignors to The National-Acme Manufacturing Company, Cleveland, Ohio. Machine for castellating nuts. No. 1,157,258; Oct. 19; Gaz. vol. 219; p. 732.
- Smith, Oscar A., and B. F. Rindfleisch, assignors to The National-Acme Manufacturing Company, Cleveland, Ohio. Die. No. 1,157,259; Oct. 19; Gaz. vol. 219; p. 733.
- Smith, Oscar A., and B. F. Rindfleisch, assignors to The National-Acme Manufacturing Company, Cleveland, Ohio. Punch. No. 1,157,260; Oct. 19; Gaz. vol. 219; p. 733.
- Smith, Oscar L., Grand Rapids, Mich. Show-case door. No. 1,161,900; Nov. 30; Gaz. vol. 220; p. 1406.
- Smith, Oscar L., Grand Rapids, Mich. Display device. No. 1,161,901; Nov. 30; Gaz. vol. 220; p. 1406.
- Smith, Oscar L., Grand Rapids, Mich. Display device. No. 1,161,902; Nov. 30; Gaz. vol. 220; p. 1407.
- Smith, Oscar W., Flat Rock, Mich. Bit. No. 1,128,631; Feb. 16; Gaz. vol. 211; p. 777.
- Smith, Oscar W., assignor to The National Oil-Gas Burner Company, Denver, Colo. Hydrocarbon-burner. No. 1,134,239; Apr. 6; Gaz. vol. 213; p. 57.
- Smith, Otto W. (See Anderson, William H., assignor.)
- Smith, Paschall W., Seattle, Wash. Automobile-lock. No. 1,139,733; May 18; Gaz. vol. 214; p. 781.
- Smith, Paul J., Galetton, Pa. Steering-gear for motor-vehicles. No. 1,126,111; Jan. 26; Gaz. vol. 210; p. 1141.
- Smith, Philip S., Denver, Colo. Paper box. No. 1,149,412; Aug. 10; Gaz. vol. 217; p. 433.
- Smith, Purnell W., Philadelphia, Pa. Door-bolt lock. No. 1,159,877; Nov. 9; Gaz. vol. 220; p. 549.
- Smith, Putnam D., Felton, assignor to F. G. Willson, Santa Cruz, Cal. Variable-speed gearing. No. 1,134,769; Apr. 6; Gaz. vol. 213; p. 251.
- Smith, R. A., et al. (See White, William S. M., assignor.)
- Smith, Reuben S., Kansas City, Mo. Electrically-heated steering-rim. No. 1,125,889; Jan. 19; Gaz. vol. 210; p. 1027.
- Smith, Reuben W., West Collingswood, N. J., and W. P. Thomson, assignors to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,126,112; Jan. 26; Gaz. vol. 210; p. 1142.
- Smith, Rexford M., Washington, D. C., assignor, by mesne assignments, to Connecticut Aircraft Company, New Haven, Conn. Flying-machine. No. 1,128,378; Feb. 16; Gaz. vol. 211; p. 688.
- Smith, Rexford M., Washington, D. C., assignor, by mesne assignments, to Connecticut Aircraft Company, New Haven, Conn. Flying-machine. No. 1,128,379; Feb. 16; Gaz. vol. 211; p. 689.
- Smith, Rexford M., Washington, D. C., assignor, by mesne assignments, to Connecticut Aircraft Company, New Haven, Conn. Flying-machine. No. 1,130,208; Mar. 2; Gaz. vol. 212; p. 127.
- Smith, Richard, Sherbrooke, Quebec, Canada. Tread-surface for footwear. No. 1,160,206; Nov. 16; Gaz. vol. 220; p. 717.
- Smith, Richard, assignor of one-fifth to C. W. Cate, Sherbrooke, Quebec, Canada. Rotary engine. No. 1,158,325; Oct. 26; Gaz. vol. 219; p. 1167.
- Smith, Richard S., Columbia, Miss. Electric alarm. No. 1,148,411; July 27; Gaz. vol. 216; p. 1272.
- Smith, Richard S., Jr., Woodbury, assignor of one-half to G. C. Gunn, Burlington, N. J. Electrical indicator. No. 1,152,986; Sept. 7; Gaz. vol. 218; p. 223.
- Smith, Robert A., Mahwah, N. J. Flexible coupling. No. 1,165,551; Dec. 28; Gaz. vol. 221; p. 1108.
- Smith, Robert B., Stoughton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeletting-machine. No. 1,163,699; Dec. 14; Gaz. vol. 221; p. 383.
- Smith, Robert C., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Automatic stop mechanism for paper-folding machines. No. 1,159,426; Nov. 9; Gaz. vol. 220; p. 386.
- Smith, Robert F., Lynn, Mass. Shaping-machine. No. 1,163,477; Dec. 7; Gaz. vol. 221; p. 259.
- Smith, Robert J., Canon City, Colo. Seat-lock for wagons. No. 1,124,542; Jan. 12; Gaz. vol. 210; p. 513.
- Smith, Robert M., Sioux Falls, S. D. Window-sign. No. 1,166,270; Dec. 28; Gaz. vol. 221; p. 1365.
- Smith, Robert R., assignor to Miller Lock Company, Philadelphia, Pa. Vacuum-cleaner. No. 1,140,294; May 18; Gaz. vol. 214; p. 977.
- Smith, Robert T., Jr., Warrington, England. Vehicle-wheel. No. 1,160,779; Nov. 16; Gaz. vol. 220; p. 921.
- Smith, Rose W., Lexington, Mass. Ornamental plaque. No. 1,143,601; June 15; Gaz. vol. 215; p. 957.
- Smith, Roy H., Cleveland, Ohio. Nut-tapping machine. No. 1,138,901; May 11; Gaz. vol. 214; p. 452.
- Smith, Rudyard I., Washington, assignor of one-fourth to M. H. Smith, Takoma Park, D. C., and one-fourth to W. H. Knight, Takoma Park, Md. Preserving wood. No. 1,129,430; Feb. 23; Gaz. vol. 211; p. 1093.
- Smith, Rudolph C., Yonkers, N. Y. Device for gripping. No. 1,138,902; May 11; Gaz. vol. 214; p. 453.
- Smith, Rufus B., Akron, Ohio. Game apparatus. No. 1,166,271; Dec. 28; Gaz. vol. 221; p. 1366.
- Smith, Russell R., Rodeo, Cal. Aeroplane. No. 1,133,757; Mar. 30; Gaz. vol. 212; p. 1543.
- Smith-Ryan Boat and Engine Co. (See Ryan and Smith, assignors.)
- Smith, S. Grant, North Yakima, Wash. Box-press. No. 1,140,410; May 25; Gaz. vol. 214; p. 1054.
- Smith, Sam R., Los Angeles, assignor of five one-hundredths to P. G. Hoffman, Pasadena, Cal. Flying-machine. No. 1,139,820; May 18; Gaz. vol. 214; p. 812.
- Smith, Samuel D., East Dedham, assignor of one-half to J. C. Kennedy, Boston, Mass. Cushion-heel. No. 1,131,568; Mar. 9; Gaz. vol. 212; p. 632.
- Smith, Samuel N., assignor of one-half to H. W. Hoops, New York, N. Y. Magnetic ore-separator. No. 1,161,351; Nov. 23; Gaz. vol. 220; p. 1170.
- Smith, Samuel T., Blue Island, Ill. Rubber-preservative composition. No. 1,156,561; Oct. 12; Gaz. vol. 219; p. 456.
- Smith, Saville, and H. Langton, Philadelphia, Pa. Smoke-consumer. No. 1,131,280; Mar. 9; Gaz. vol. 212; p. 533.
- Smith, Sidney, Detroit, Mich. Automatic clutch. No. 1,147,126; July 20; Gaz. vol. 216; p. 792.
- Smith, Sidney G., Corpus Christi, Tex. Train-control system. No. 1,159,724; Nov. 9; Gaz. vol. 220; p. 493.
- Smith, Silas E., Worcester, Mass. Dental mandrel. No. 1,133,409; Mar. 30; Gaz. vol. 212; p. 1420.
- Smith, Simon A., Burlington, Vt. Photographic-printing apparatus. No. 1,154,735; Sept. 23; Gaz. vol. 218; p. 930.
- Smith, Smith, Marcus Hook, Pa. Water-heating system for dwellings, hotels, and the like. No. 1,135,410; Apr. 13; Gaz. vol. 213; p. 513.
- Smith, Solomon, Slab Fork, W. Va. Series of reversible car-seats. No. 1,138,420; May 4; Gaz. vol. 214; p. 247.
- Smith & Son Company, Lee S. (See Hedman, Carl M., assignor.)
- Smith & Son, Prince. (See Shackleton, Sugden and H., assignors.)
- Smith & Sons Mfg. Co. (See Bossert, Albert T., assignor.)
- Smith Spring Wheel Company. (See Smith, Cicero G., assignor.)
- Smith, Stephen G., Hannibal, Mo. Tonsillotome. No. 1,142,919; June 15; Gaz. vol. 215; p. 718.
- Smith, Stephen M., Boise, Idaho. Grapple. No. 1,145,220; July 6; Gaz. vol. 216; p. 84.
- Smith, Stephen T., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,151,730; Aug. 31; Gaz. vol. 217; p. 1407.
- Smith, Stephen T., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,159,116; Nov. 2; Gaz. vol. 220; p. 244.
- Smith, Stephen T., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,159,427; Nov. 9; Gaz. vol. 220; p. 387.
- Smith, Stephen T., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,159,541; Nov. 9; Gaz. vol. 220; p. 426.
- Smith, Stuart D., assignor of two-thirds to C. W. Bechtel, Kansas City, Mo. Automatic automobile-jack. No. 1,140,624; May 25; Gaz. vol. 214; p. 1130.
- Smith, Stuart F., San Francisco, Cal. Computing and recording machine. No. 1,152,664; Sept. 7; Gaz. vol. 218; p. 105.
- Smith, Sydney H. (See Bennett and Smith.)
- Smith System Heating Co. (See Smith, Leo C., assignor.)
- Smith, T. Dwight, Denver, Colo. Non-refillable bottle. No. 1,151,224; Aug. 24; Gaz. vol. 217; p. 1190.

Alphabetical list of patentees—Continued.

- Smith, Taylor J., assignor of one-half to S. M. Cown, Union City, Ga. Gearing. No. 1,140,078; May 18; Gaz. vol. 214; p. 904.
- Smith, Theeharmon M., Wax, Ky. Automatic wagon-brake. No. 1,153,967; Sept. 21; Gaz. vol. 218; p. 639.
- Smith, Theodore, assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Telephone apparatus. No. 1,141,279; June 1; Gaz. vol. 215; p. 67.
- Smith, Thomas L., Milwaukee, Wis. Gyrotory crusher. No. 1,132,984; Mar. 23; Gaz. vol. 212; p. 1232.
- Smith, Thomas L., Milwaukee, Wis. Concrete-mixer. No. 1,145,171; July 6; Gaz. vol. 216; p. 69.
- Smith, Thomas L., Milwaukee, Wis. Crusher. No. 1,145,929; July 13; Gaz. vol. 216; p. 353.
- Smith, Thomas L., Milwaukee, Wis. Concrete-mixer. No. 1,147,903; July 27; Gaz. vol. 216; p. 1092.
- Smith, Thomas L., assignor to The T. L. Smith Co., Milwaukee, Wis. Concrete-mixer drum. No. 1,150,896; Aug. 24; Gaz. vol. 217; p. 1076.
- Smith, Thomas W., Detroit, Mich. Heating system. No. 1,135,730; Apr. 13; Gaz. vol. 213; p. 627.
- Smith, Tom C., assignor to Keystone Mausoleum Co., Franklin, Pa. Mausoleum. No. 1,163,625; Dec. 7; Gaz. vol. 221; p. 312.
- Smith, Ulysses S., assignor of one-half to A. C. Kaufman, Sacramento, Cal. Automatic current cut-off for electrical appliances. No. 1,150,973; Aug. 24; Gaz. vol. 217; p. 1103.
- Smith, Vinal W., assignor to Simplex Sample System Inc., Haverhill, Mass. Shoe-dummy. No. 1,160,541; Nov. 16; Gaz. vol. 220; p. 834.
- Smith, Voorhees G., assignor of one-half to L. C. Beatty, Iola, Kans. Car-seal. No. 1,136,447; Apr. 20; Gaz. vol. 213; p. 920.
- Smith, Walter, Gilman, Ill. Grain-saver attachment for reapers. No. 1,157,435; Oct. 19; Gaz. vol. 219; p. 795.
- Smith, Walter A., and T. L. Flynn, Springfield, Mass. Sugar-dispenser. No. 1,155,013; Sept. 28; Gaz. vol. 218; p. 1025.
- Smith, Walter E., Winfield, Kans. Billiard-cue. No. 1,141,587; June 1; Gaz. vol. 215; p. 178.
- Smith, Walter H., New Brunswick, N. J. Vehicle-spring. No. 1,124,964; Jan. 12; Gaz. vol. 210; p. 663.
- Smith, Walter Ray, Milwaukee, Wis. Clip-file protector. No. 1,136,729; Apr. 20; Gaz. vol. 213; p. 1021.
- Smith, Walter S., Chicago, Ill., and H. W. Welsh, North Milwaukee, Wis., assignors, by mesne assignments, to W. & T. Avery, Ltd., Birmingham, England. Material packing and weighing machine. No. 1,134,705; Apr. 6; Gaz. vol. 213; p. 227.
- Smith, Walton D., assignor of two-thirds to C. E. Emery and one-third to S. Keiser, Prophetstown, Ill. Sand-paper. No. 1,146,359; July 13; Gaz. vol. 216; p. 503.
- Smith, Warren L. (See Atkinson, Robert O., assignor.)
- Smith, Warren M., Moores, assignor to The J. G. Brill Company, Philadelphia, Pa. Car-frame. No. 1,141,845; June 1; Gaz. vol. 215; p. 264.
- Smith, Warren M., Moores, assignor to The J. G. Brill Company, Philadelphia, Pa. Platform for passenger-cars. No. 1,161,903; Nov. 30; Gaz. vol. 220; p. 1407.
- Smith, Watson R., Jackson, Mich. Spring structure. No. 1,126,896; Feb. 2; Gaz. vol. 211; p. 81.
- Smith, Watson R., Jackson, Mich. Spring structure. No. 1,150,711; Aug. 17; Gaz. vol. 217; p. 955.
- Smith, Watson R., Jackson, Mich. Spring structure. No. 1,150,712; Aug. 17; Gaz. vol. 217; p. 956.
- Smith, Watson R., assignor to Jackson Cushion Spring Company, Jackson, Mich. Spring construction. No. 1,129,367; Feb. 23; Gaz. vol. 211; p. 1070.
- Smith, Watson R., and G. A. Franz, assignors to Jackson Cushion Spring Company, Jackson, Mich. Spring structure. No. 1,150,789; Aug. 17; Gaz. vol. 217; p. 982.
- Smith, Wayne, assignor of one-half to H. P. Penny, Altheimer, Ark. Tongs. No. 1,140,200; May 18; Gaz. vol. 214; p. 946.
- Smith, William B., Danville, Ill. Spring-hinge. No. 1,127,688; Feb. 9; Gaz. vol. 211; p. 396.
- Smith, William B., Danville, Ill. Door-check. No. 1,127,689; Feb. 9; Gaz. vol. 211; p. 396.
- Smith, William B., Chicago, Ill. Pocketed receptacle. No. 1,134,561; Apr. 6; Gaz. vol. 213; p. 175.
- Smith, William B., Parkersburg, Pa. Injector for locomotive-tenders. No. 1,153,138; Sept. 7; Gaz. vol. 218; p. 272.
- Smith & Wesson. (See Wesson, Joseph H., assignor.)
- Smith & Wesson. (See Wesson and Pomeroy, assignors.)
- Smith, William B., Danville, Ill. Sliding-door lock. No. 1,143,653; June 22; Gaz. vol. 215; p. 999.
- Smith, William E. (See Mettler and Smith.)
- Smith, William E. (See Neubert and Smith.)
- Smith, William E., Milltown, assignor to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Circular-knitting machine. No. 1,145,930; July 13; Gaz. vol. 216; p. 353.
- Smith, William E., Milltown, assignor to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Circular-knitting machine. No. 1,145,931; July 13; Gaz. vol. 216; p. 354.
- Smith, William F. (See Prims and Smith.)
- Smith, William F., Chicago, Ill., assignor to Western Electric Company, New York, N. Y. Winding-head. No. 1,144,618; June 29; Gaz. vol. 215; p. 1361.
- Smith, William F., Brooklyn, assignor to Western Electric Company, New York, N. Y. Fire and police alarm box. No. 1,147,052; July 20; Gaz. vol. 216; p. 767.
- Smith, William G., Lawton, Okla. Package-tie. No. 1,129,368; Feb. 23; Gaz. vol. 211; p. 1071.
- Smith, William G., Santa Clara, Cal. Shock-absorber. No. 1,151,909; Aug. 31; Gaz. vol. 217; p. 1471.
- Smith, William H., Cleveland, Ohio. Locking-valve for fuel-oil tanks. No. 1,124,965; Jan. 12; Gaz. vol. 210; p. 664.
- Smith, William H., Springfield, Mass. Necktie. No. 1,140,201; May 18; Gaz. vol. 214; p. 946.
- Smith, William H., and G. Kaericher, West Salem, Ill. Water-gate. No. 1,134,923; Apr. 6; Gaz. vol. 213; p. 299.
- Smith, William H., assignor of one-half to J. W. Stewart, Joliet, Mont. Beet-harvester. No. 1,140,202; May 18; Gaz. vol. 214; p. 947.
- Smith, William H., New Rochelle, N. Y., and B. McHugh, Ottawa, Ontario, Canada, assignors to American Bank Note Company. Damping-machine. No. 1,124,346; Jan. 12; Gaz. vol. 210; p. 442.
- Smith, William J., Eolia, Mo. Wire-fence repairer. No. 1,161,740; Nov. 23; Gaz. vol. 220; p. 1303.
- Smith, William J., New Haven, Conn., assignor to H. N. Sweet, trustee, Boston, Mass. Exploding device for projectiles. No. 1,142,375; June 8; Gaz. vol. 215; p. 489.
- Smith, William J., assignor of one-half to P. D. Podhola, Max, N. D. Seat cushion and cover. No. 1,156,939; Oct. 19; Gaz. vol. 219; p. 617.
- Smith, William L., Chicago, Ill. Impact-machine. No. 1,127,535; Feb. 9; Gaz. vol. 211; p. 345.
- Smith, William L., Chicago, Ill. Rock-drill. No. 1,139,139; May 11; Gaz. vol. 214; p. 538.
- Smith, William L., assignor of one-half to J. A. Greer, Decatur, Ill. Motion-picture-film cabinet. No. 1,144,736; June 29; Gaz. vol. 215; p. 1403.
- Smith, William M., et al. (See Wilkins, Harry, assignor.)
- Smith, William M., Evansville, Ind. Automatic train-stop. No. 1,133,239; Mar. 23; Gaz. vol. 212; p. 1321.
- Smith, William M., Evansville, Ind. Automatic fender and brake. No. 1,133,673; Mar. 30; Gaz. vol. 212; p. 1515.
- Smith, William M., Woodward, Okla. Concrete-form. No. 1,135,858; Apr. 13; Gaz. vol. 213; p. 671.
- Smith, William O., assignor, by mesne assignments, to The National Oil-Gas-Burner Company, Denver, Colo. Hydrocarbon-burner. No. 1,134,240; Apr. 6; Gaz. vol. 213; p. 57.
- Smith, William R., Braeside, Chalfont St. Peter, assignor of one-third to R. P. Wilson, Westminster, London, and one-third to The Consolidated Brake & Engineering Co., Ltd., London, England. Continuous brake. No. 1,161,543; Nov. 23; Gaz. vol. 220; p. 1237.
- Smith, William S., Cambridge, Mass. Hoist. No. 1,163,786; Dec. 14; Gaz. vol. 221; p. 414.
- Smith, William T., Bolton, England. Spinning cotton and apparatus therefor. No. 1,128,193; Feb. 9; Gaz. vol. 211; p. 577.
- Smith, William T., Cincinnati, Ohio. Internal-combustion engine. No. 1,152,386; Aug. 31; Gaz. vol. 217; p. 1636.
- Smith, William W. (See Miles, Frederick B., assignor.)
- Smith, William W., Trenton, N. J., assignor to Sanitary Stove Top Company. Gas-stove top. No. 1,148,412; July 27; Gaz. vol. 216; p. 1272.
- Smith, Willis H., Knoxville, Tenn. Engine valve-gear. No. 1,132,692; Mar. 23; Gaz. vol. 212; p. 1123.
- Smith, Wilton A., Kansas City, Mo. Automobile-lock. No. 1,151,056; Aug. 24; Gaz. vol. 217; p. 1132.
- Smith, Wm. M. (See Baker, Louis H., assignor.)
- Smith-Worthington Company, The. (See Rackle, Frederick H., assignor.)
- Smith, Zay. (See Crandall, Grover C., assignor.)
- Smither, Richard E., Saluda, Va. Game apparatus. No. 1,128,194; Feb. 9; Gaz. vol. 211; p. 577.
- Smithing, Frank W., Ontonagon, Mich. Electric umbrella. No. 1,166,272; Dec. 28; Gaz. vol. 221; p. 1366.
- Smithson, Augustus C., Hot Springs, Ark. Clothes-pin. No. 1,161,352; Nov. 23; Gaz. vol. 220; p. 1170.
- Smitt, Hermanus M., Utrecht, Netherlands. Apparatus for measuring the inclination of bore-holes and making a photographic record thereof. No. 1,124,068; Jan. 5; Gaz. vol. 210; p. 295.
- Smokeless Burner Co., The. (See Dow, Floyd, assignor.) (Reissue.)
- Smokeless Economisers Limited. (See Bennett and Smith, assignors.)
- Smola, Paul J., Edwardsville, Ill. Automatic brake. No. 1,125,753; Jan. 19; Gaz. vol. 210; p. 981.
- Smolensky, Michael, Cleveland, Ohio. Sash-lock. No. 1,124,821; Jan. 12; Gaz. vol. 210; p. 613.
- Smolensky, Michael, Cleveland, Ohio. Check-valve. No. 1,147,343; July 20; Gaz. vol. 216; p. 867.
- Smolensky, Michael, Cleveland, Ohio. Work-holder for machine-tools. No. 1,154,450; Sept. 21; Gaz. vol. 218; p. 805.
- Smolik, Mathias, Pittsburgh, Pa. Toy. No. 1,131,166; Mar. 9; Gaz. vol. 212; p. 493.
- Smoot, Charles H., assignor to Slag Steam Generator Company, New York, N. Y. Slag steam-generator. No. 1,127,690; Feb. 9; Gaz. vol. 211; p. 397.

- Smoot, Charles H., assignor to Rateau, Battu, Smoot Company, New York, N. Y. Power-generating system. No. 1,141,983; June 8; Gaz. vol. 215; p. 350.
- Smoot, Charles H., assignor to Rateau Battu Smoot Company, New York, N. Y. Vehicle suspension. No. 1,158,575; Nov. 2; Gaz. vol. 220; p. 58.
- Smoter, John, Conemaugh, Pa. Adjustable guard-rail. No. 1,161,741; Nov. 23; Gaz. vol. 220; p. 1303.
- Smulders, Frans, Rotterdam, Netherlands. Sling crane. No. 1,139,915; May 18; Gaz. vol. 214; p. 846.
- Smulski, Edward, Newton Highlands, Mass. Reinforced concrete construction. No. 1,154,548; Sept. 21; Gaz. vol. 218; p. 837.
- Smulski, Theodore J., Milwaukee, Wis. Resilient wheel. No. 1,141,498; June 1; Gaz. vol. 215; p. 147.
- Smykal, Emil, Bloomfield, N. J., assignor to Woods & Chatterlier, New York, N. Y. Card-case. No. 1,143,654; June 22; Gaz. vol. 215; p. 1000.
- Smyle, Bernhardt and C., Brooklyn, N. Y. Collapsible ice-cream box. No. 1,141,661; June 1; Gaz. vol. 215; p. 204.
- Smyle, Charles. (See Smyle, Bernhardt and C.)
- Smyly, Arthur L., Chicago, Ill. Gas-tester. No. 1,146,531; July 13; Gaz. vol. 216; p. 567.
- Smyly, Arthur L., Chicago, Ill. Combined fluid-pressure regulator and safety-valve. No. 1,161,990; Nov. 30; Gaz. vol. 220; p. 1438.
- Smyser, Louis B., assignor to The American Hardware Corporation, New Britain, Conn. Shaft-operator. No. 1,135,731; Apr. 13; Gaz. vol. 213; p. 628.
- Smyser, Louis B., assignor to The American Hardware Corporation, New Britain, Conn. Transom-operating means. No. 1,161,814; Nov. 23; Gaz. vol. 220; p. 1329.
- Smyth, Ezra, assignor of one-half to F. E. McIntosh, Portland, Oreg. Rerailer. No. 1,154,273; Sept. 21; Gaz. vol. 218; p. 744.
- Smyth, John L., Sapulpa, Okla. Twine-holder. No. 1,146,601; July 13; Gaz. vol. 216; p. 591.
- Smyth, Joseph E., assignor to Joseph E. Smyth Company, Chicago, Ill. Stacker mechanism. No. 1,166,017; Dec. 28; Gaz. vol. 221; p. 1271.
- Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Furnace. No. 1,165,725; Dec. 28; Gaz. vol. 221; p. 1171.
- Smythe, John H., et al. (See Mellon, Charles E., assignor.)
- Smythe, Jonathan P., Washington, D. C. Water-jacket for heaters. No. 1,163,787; Dec. 14; Gaz. vol. 221; p. 414.
- Snaveley, Carrie E., Sauk Rapids, Minn. Heating attachment for lamp-chimneys. No. 1,144,920; June 29; Gaz. vol. 215; p. 1465.
- Snaveley, Clarence S., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signal. No. 1,154,068; Sept. 21; Gaz. vol. 218; p. 674.
- Snaveley, Delbert H., Amherst, Ohio. Holster. No. 1,148,935; Aug. 3; Gaz. vol. 217; p. 160.
- Snead & Co. Iron Works, The. (See Macdonald, Harry P., assignor.)
- Snead & Co. Iron Works, The. (See Macdonald and Parker, assignors.)
- Snead, Udolpho. (See Macdonald, Harry P., assignor.)
- Snedaker, Henry L., Binghamton, N. Y. Latch for trunks and the like. No. 1,163,569; Dec. 7; Gaz. vol. 221; p. 291.
- Sneddon, James P., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Tractor-wheel. No. 1,150,398; Aug. 17; Gaz. vol. 217; p. 847.
- Sneddon, William, Del Rio, Tex. Car-door. No. 1,152,665; Sept. 7; Gaz. vol. 218; p. 106.
- Snedeker, James W., Adrian, Mich. Machine for securing webbing to frames. No. 1,152,565; Sept. 7; Gaz. vol. 218; p. 69.
- Snedén, Herman W., Dutton, Mich. Universal joint. No. 1,129,025; Feb. 16; Gaz. vol. 211; p. 916.
- Snedén, Herman W., Byron Center, Mich. Motor-vehicle axle construction. No. 1,149,095; Aug. 3; Gaz. vol. 217; p. 214.
- Snediker, Morton O., assignor to The Powers Regulator Company, Chicago, Ill. Temperature-controlling device. No. 1,137,921; May 4; Gaz. vol. 214; p. 69.
- Snediker, Morton O., assignor to The Powers Regulator Company, Chicago, Ill. Water-motor. No. 1,152,566; Sept. 7; Gaz. vol. 218; p. 69.
- Snee, Frank. (See Snee, John A., assignor.)
- Snee, John A., Jr., et al. (See Kerr, Thomas H., assignor.)
- Snee, John A., Jr. (See Snee, William and J. A., Jr.)
- Snee, John A., assignor to F. Snee, West Elizabeth, Pa. Retaining the lighter or more volatile oils contained in the product of oil-wells, &c. No. 1,165,458; Dec. 28; Gaz. vol. 221; p. 1076.
- Snee, John A., Jr., West Elizabeth, and T. H. Kerr, Pittsburgh, Pa., assignors to said Snee and W. Snee, West Elizabeth, Pa. Wind-wheel-load regulator. No. 1,142,538; June 8; Gaz. vol. 215; p. 548.
- Snee, William, et al. (See Kerr, Thomas H., assignor.)
- Snee, William. (See Snee and Kerr, assignors.)
- Snee, William and J. A., Jr., West Elizabeth, Pa. Electrical regulation. No. 1,131,434; Mar. 9; Gaz. vol. 212; p. 586.
- Snee, William and J. A., Jr., West Elizabeth, Pa. Utilizing variable power. No. 1,131,435; Mar. 9; Gaz. vol. 212; p. 586.
- Sneed, William V., Vernon, Tex. Hull-burner. No. 1,141,214; June 1; Gaz. vol. 215; p. 44.
- Sneierson, Samuel L., assignor to Independent Button Fastener Machine Company, Boston, Mass. Heel. No. 1,123,941; Jan. 5; Gaz. vol. 210; p. 253.
- Snell, Elmer A., La Fargeville, N. Y. Pail-holder. No. 1,157,333; Oct. 19; Gaz. vol. 219; p. 758.
- Snell, Harry, Hanover, assignor of one-third to G. J. J. Clark and one-third to D. J. Head, West Hanover, Mass. Shoe-filler. No. 1,153,139; Sept. 7; Gaz. vol. 218; p. 272.
- Snell, Harry B., assignor of one-half to A. W. Fisher, South Bend, Ind. Ignition system for Ford automobiles. No. 1,164,317; Dec. 14; Gaz. vol. 221; p. 598.
- Snell, Lyle K., Detroit, Mich. Support for extra tires. No. 1,147,452; July 20; Gaz. vol. 216; p. 908.
- Snelling, Beverly T., Washington, D. C. Foldable boat-chair. No. 1,161,420; Nov. 23; Gaz. vol. 220; p. 1195.
- Snelling, John C., Wandsworth, England. Stowing, loading, and launching of boats from ships. No. 1,125,197; Jan. 19; Gaz. vol. 210; p. 782.
- Snelling, Thomas M., La Jara, Colo. Wire-stretcher. No. 1,147,655; July 20; Gaz. vol. 216; p. 979.
- Snelling, Walter O., Pittsburgh, Pa. Effecting dissociative reactions upon carbon compounds. No. 1,124,347; Jan. 12; Gaz. vol. 210; p. 443.
- Snellings, Berry O., Reform, Ark. Bottle. No. 1,164,555; Dec. 14; Gaz. vol. 221; p. 682.
- Snetthen, James S., Acme, Wash. Rack. No. 1,124,822; Jan. 12; Gaz. vol. 210; p. 613.
- Snider, Henderson W., Carretta, W. Va. Rail-drilling machine. No. 1,160,005; Nov. 9; Gaz. vol. 220; p. 593.
- Snider, Jacob L., Harrod, Ohio. Game-board. No. 1,134,646; Apr. 6; Gaz. vol. 213; p. 206.
- Snipes, John, Charlotte, N. C. Insect-destroying device. No. 1,152,234; Aug. 31; Gaz. vol. 217; p. 1582.
- Snodgrass, Harlan E. (See Altman, Moïse, assignor.) (Reissue.)
- Snodgrass, James S., and J. B. Carter, Eminence, Ky. Fastener for covers of crates. No. 1,151,057; Aug. 24; Gaz. vol. 217; p. 1132.
- Snodgrass, James W., Youngstown, Ohio. Stump-puller and tree-carrier. No. 1,143,455; June 15; Gaz. vol. 215; p. 908.
- Snook, George W. (See Smith and Snook.)
- Snook, Homer C., Philadelphia, Pa. Polyphase X-ray system. No. 1,131,870; Mar. 16; Gaz. vol. 212; p. 776.
- Snook, Homer C., Cynwyd, and E. W. Kelly, Philadelphia, Pa. Stereoscopic X-ray system. No. 1,123,942; Jan. 5; Gaz. vol. 210; p. 253.
- Snook, Homer C., Cynwyd, and E. W. Kelly, Philadelphia, Pa. Vacuum regulation. No. 1,143,327; June 15; Gaz. vol. 215; p. 863.
- Snook, Homer C., Cynwyd, and E. W. Kelly, Philadelphia, Pa. Stereoscopic X-ray system. No. 1,163,959; Dec. 14; Gaz. vol. 221; p. 474.
- Snook, Homer C., and G. H. White, assignors to Roentgen Manufacturing Company, Philadelphia, Pa. X-ray tube. No. 1,165,138; Dec. 21; Gaz. vol. 221; p. 928.
- Snook-Roentgen Manufacturing Company. (See Kelly, Edwin W., assignor.)
- Snow Dental Company, The. (See Snow, George B., assignor.)
- Snow, Frank P., Los Angeles, Cal. Valve mechanism. No. 1,138,324; May 4; Gaz. vol. 214; p. 213.
- Snow, Frederick, Perry, Iowa, assignor to Globe Manufacturing Company, Gearing. No. 1,156,377; Oct. 12; Gaz. vol. 219; p. 391.
- Snow, George B., Long Beach, Cal., assignor to The Snow Dental Company, Buffalo, N. Y. Dental face-bow. No. 1,154,942; Sept. 28; Gaz. vol. 218; p. 1001.
- Snow, George B., Long Beach, Cal., assignor to Snow Dental Company, Buffalo, N. Y. Dental articulator. No. 1,160,114; Nov. 9; Gaz. vol. 220; p. 632.
- Snow, Isaac, Lawrence, Mass. Bobbin-holder. No. 1,140,203; May 18; Gaz. vol. 214; p. 947.
- Snow, Isaac, Lawrence, assignor to Draper Company, Hopedale, Mass. Loom. No. 1,132,223; Mar. 16; Gaz. vol. 212; p. 903.
- Snow, Jacob H., Indianapolis, Ind., assignor to A. Y. Wright, Douglas, Ariz. Door-stop. No. 1,163,478; Dec. 7; Gaz. vol. 221; p. 260.
- Snow, Louis M., Provincetown, Mass. Machine for measuring and rolling wall-paper. No. 1,134,924; Apr. 6; Gaz. vol. 213; p. 299.
- Snyder, Almond H., Lancaster, N. Y., assignor to Gould Storage Battery Company, Terminal connection. No. 1,127,935; Feb. 9; Gaz. vol. 211; p. 487.
- Snyder, Almond H., Lancaster, N. Y., assignor to Gould Storage Battery Company, Storage-battery cell. No. 1,127,936; Feb. 9; Gaz. vol. 211; p. 487.
- Snyder, Almond H., Lancaster, N. Y., assignor to Gould Storage Battery Company, Storage battery. No. 1,128,275; Feb. 9; Gaz. vol. 211; p. 605.
- Snyder, Augustus G., assignor, by mesne assignments, to George H. Spitzli, Utica, N. Y. Computing mechanism. No. 1,132,804; Mar. 23; Gaz. vol. 212; p. 1166.
- Snyder, Charles L., Stratford, and F. J. Pease, assignors to Wolverine Motor Works, Inc., Bridgeport, Conn. Internal-combustion engine. No. 1,131,436; Mar. 9; Gaz. vol. 212; p. 587.

Alphabetical list of patentees—Continued.

- Snyder, Charles P., Mount Carmel, Pa. Transmission-gearing. No. 1,159,725; Nov. 9; Gaz. vol. 220; p. 493.
- Snyder, Charles W., Hudson, N. Y. Internal-combustion engine and scavenging the same. No. 1,126,308; Jan. 26; Gaz. vol. 210; p. 1212.
- Snyder, Charles W., Los Angeles, Cal. Four-cycle engine. No. 1,126,309; Jan. 26; Gaz. vol. 210; p. 1213.
- Snyder, Christopher H., Berkeley, Cal. Head-frame and haunch-reinforce for steel buildings. No. 1,128,912; Feb. 16; Gaz. vol. 211; p. 876.
- Snyder, Eja L., et al. (See Crompton, Edwin, Jr., assignor.)
- Snyder, Frank B. (See Koyen and Snyder.)
- Snyder, George C., Waterbury, Conn. Fastening device. No. 1,138,020; May 4; Gaz. vol. 214; p. 103.
- Snyder, George C., New York, N. Y. Attaching fastening devices. No. 1,138,021; May 4; Gaz. vol. 214; p. 103.
- Snyder, George C., New York, N. Y. Snap-fastener. No. 1,166,417; Dec. 28; Gaz. vol. 221; p. 1417.
- Snyder, George W., assignor to H. E. Sheldon, Pittsburgh, Pa. Cast-metal railway cross-tie. No. 1,136,180; Apr. 20; Gaz. vol. 213; p. 824.
- Snyder, George W., assignor to H. E. Sheldon, Pittsburgh, Pa. Cast-metal railway cross-tie. No. 1,143,456; June 15; Gaz. vol. 215; p. 908.
- Snyder, Harry L., Denver, Colo. Memorandum device. No. 1,138,325; May 4; Gaz. vol. 214; p. 213.
- Snyder, Henry C., Kansas City, Mo. Internal-combustion-engine-charge-forming apparatus. No. 1,146,969; July 20; Gaz. vol. 216; p. 758.
- Snyder, Henry R. (See Maranda and Snyder.)
- Snyder, Jacob R., Joplin, Mo. Automatic sprinkling device. No. 1,144,619; June 29; Gaz. vol. 215; p. 1361.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Triple valve. No. 1,136,057; Apr. 20; Gaz. vol. 213; p. 781.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Triple valve. No. 1,164,025; Dec. 14; Gaz. vol. 221; p. 497.
- Snyder, Jacob R., Pittsburgh, Pa., assignor, by mesne assignments, to Pittsburgh Air Brake Company. Triple valve. No. 1,146,970; July 20; Gaz. vol. 216; p. 739.
- Snyder, James B. (See Lowe, Arthur H., assignor.)
- Snyder, John J., Jersey City, N. J. Self-locking nut. No. 1,141,280; June 1; Gaz. vol. 215; p. 68.
- Snyder, John J., Kansas City, Mo. Credit-account device. No. 1,143,085; June 15; Gaz. vol. 215; p. 778.
- Snyder, John J., Chicago, Ill. Line-guide for copy-holders. No. 1,162,312; Nov. 30; Gaz. vol. 220; p. 1551.
- Snyder, John J., Chicago, Ill. Credit-register. No. 1,164,883; Dec. 21; Gaz. vol. 221; p. 837.
- Snyder, John O., Dayton, Ohio. Air-heater for gasoline-engines. No. 1,157,189; Oct. 19; Gaz. vol. 219; p. 706.
- Snyder, Leon F. (See Buschke, Charles F., assignor.)
- Snyder, Lionel E. (See Welker and Snyder.)
- Snyder, Lottie E. (See Snyder, Ward H., assignor.)
- Snyder, Orin K. (See Lobdell and Snyder.)
- Snyder, Richard A. L. (See Grace and Snyder.)
- Snyder, Samuel, Camden, assignor to Welsbach Light Company, Gloucester City, N. J. Support or holder for lamp globes or reflectors. No. 1,133,410; Mar. 30; Gaz. vol. 212; p. 1420.
- Snyder, Simon, assignor to Sprout, Waldron & Company, Muncy, Pa. Grinding-mill. No. 1,146,030; July 13; Gaz. vol. 216; p. 390.
- Snyder, Ward H., assignor to L. B. Snyder, Congress Park, Ill. Educational appliance. No. 1,150,550; Aug. 17; Gaz. vol. 217; p. 900.
- Soars, Robert D., assignor to Hunso Machinery Company, Buffalo, N. Y. Mixing-machine for fertilizers. No. 1,123,943; Jan. 5; Gaz. vol. 210; p. 253.
- Sobra, Marguerite L., Chicago, Ill. Fire-escape attachment. No. 1,126,583; Jan. 26; Gaz. vol. 210; p. 1314.
- Sobrero, Luis R., New York, N. Y. Locust-destroyer. No. 1,164,231; Dec. 14; Gaz. vol. 221; p. 566.
- Sochor, Friedrich, Vienna, Austria-Hungary. Grab for transporters, excavators, and the like. No. 1,142,637; June 8; Gaz. vol. 215; p. 581.
- Società Anonima Encajettilladora Mecánica. (See Chartrand, Carlos, assignor.)
- Società Anonima Italiana Gio. Ansaldo & C. (See Giolitti, Federico, assignor.)
- Società Anonima Italiana Gio. Ansaldo & C. (See Valino, Mario, assignor.)
- Società Fiat San Giorgio. (See Laurenti, Cesare, assignor.)
- Società Italiana di Elettrochimica. (See Scherbel, Ludwig, assignor.)
- Société Alsacienne De Constructions Mécaniques. (See Wenning, Jean C. A., assignor.)
- Société Anonyme D'Études Du Moteur Messpa. (See Lacoïn, Louis, assignor.)
- Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils. (See Goursat, Paul, assignor.)
- Société Anonyme des Automobiles Delaunay-Belleville. (See Delaunay-Belleville, Robert, assignor.)
- Société Anonyme des Combustibles Industriels. (See Hennebutte, Henri, assignor.)
- Société Anonyme des Combustibles Industriels. (See Rosen, Jean, assignor.)
- Société Anonyme Des Établissements Delaunay-Belleville. (See Delaunay-Belleville, Robert, assignor.)
- Société Anonyme des Établissements Delaunay-Belleville, The. (See Radiguer, Charles, assignor.)
- Société Anonyme des Établissements Lacour-Berthlot. (See Florian, Charles H., assignor.)
- Société Anonyme des Télégraphes Edouard Belin. (See Masson, Jules, assignor.)
- Société Anonyme Des Usines A. E. Decouffe. (See Rogier, Louis E. R., assignor.)
- Société Anonyme Hongroise de Banque et de Commerce. (See Balassa, Frederick, assignor.)
- Société Anonyme le Carbone. (See Gindre, Eugène, assignor.)
- Société Anonyme Montbarbon. (See Montbarbon, Philippe, assignor.)
- Société Anonyme Pour L'Exploitation Des Procédés Westinghouse Leblanc. (See Leblanc, Maurice, assignor.)
- Société Anonyme Vellave de la Nouvelle Persienne entôle à nervures J. D. (See Dumas, Joseph J., assignor.)
- Société Brunswick-Balke-Collender Company. (See Drouot, Gustave C., assignor.)
- Société Burton Fils. (See Rothman, Edwin O., assignor.)
- Société Carpentier, Bal & Cie. (See Carpentier, Rodolphe, assignor.)
- Société des Carburateurs Thurot (Thurot, Meyer & Cie.). (See Thurot, Jean L. T., assignor.)
- Société des Combustibles Industriels. (See Hennebutte, Henri, assignor.)
- Société des Établissements Gaumont. (See Gaumont, Léon, assignor.)
- Société des Établissements Malicet & Blin. (See Guillery, René, assignor.)
- Société Des Moteurs Salmson (Système Canton Unne). (See Canton, Georges H. M., assignor.)
- Société des Raffineries Catalytiques des Pétales et Hydrocarbures. (See Sabatier and Mailhe, assignors.)
- Société Établissements E. Feuillette. (See Feuillette, Emile, assignor.)
- Société Française des Films & Cinématographes, "Eclair." (See Javault, Robert, assignor.)
- Société Générale des Nitrures. (See Badin, Adrien, assignor.)
- Société Générale des Nitrures. (See Bunet, Paul, assignor.)
- Société Générale des Nitrurés. (See Serpek, Ottokar, assignor.)
- Société Houdaille & Sabot. (See Houdaille, Maurice, assignor.)
- Société J. Grouvelle, H. Arquembourg & Cie. (See Arquembourg, Emile H., assignor.)
- Société L'Air Liquide (Société Anonyme Pour L'Étude Et L'Exploitation Des Procédés Georges Claude). (See Claude, Georges, assignor.)
- Société L'Aluminium Français. (See Roux, François A., assignor.)
- Société Ledue, Heitz et Cie. (See Descamps, Emmanuel A. J., assignor.)
- Société Universelle des Appareils Contrôleurs. (See Oudeville, François, assignor.)
- Society of the Redemptorist Fathers. (See Jaksa, Joseph, assignor.)
- Soderberg, Carl A., West Lynn, Mass. Vise. No. 1,154,515; Sept. 28; Gaz. vol. 218; p. 957.
- Södergren, Axel O. (See Sears and Södergren.)
- Söderlund, Carl G. (See Wiking and Söderlund.)
- Söderlund, Nils J., Medford, Mass. Ceiling-washing machine. No. 1,134,925; Apr. 6; Gaz. vol. 213; p. 299.
- Söderlund, Olof. (See Testrup, Rizby, and Söderlund.)
- Söderlund, Olof, assignor to Techno-Chemical Laboratories Limited, London, England. Evaporator. No. 1,150,713; Aug. 17; Gaz. vol. 217; p. 956.
- Soderstrom, John A., Chicago, Ill. Necktie. No. 1,143,086; June 15; Gaz. vol. 215; p. 778.
- Sodt, William G., Dubuque, Iowa. Door-operating mechanism for automobiles. No. 1,157,128; Oct. 19; Gaz. vol. 219; p. 685.
- Soens, Louis H., Mancos, Colo. Draft-equalizer. No. 1,163,379; Dec. 7; Gaz. vol. 221; p. 226.
- Sofio, Edward C., Hoboken, N. J., assignor, by mesne assignments, to Standard Heat and Ventilation Company, Inc., New York, N. Y. Controlling device for heating systems. No. 1,138,022; May 4; Gaz. vol. 214; p. 103.
- Sogabe, Tokushiro, Los Angeles, Cal. Net shear-board. No. 1,147,983; July 27; Gaz. vol. 216; p. 1120.
- Sohm, Alfred L., assignor to Sohme Electric Signal & Recording Company, Chicago, Ill. Lock. No. 1,128,632; Feb. 16; Gaz. vol. 211; p. 777.
- Sohm, Alfred L., assignor to Sohme Electric Signal & Recording Company, Chicago, Ill. Electrical circuit-changing mechanism. No. 1,138,990; May 11; Gaz. vol. 214; p. 484.
- Sohm, Alfred L., assignor to Sohme Electric Signal & Recording Company, Chicago, Ill. Electrical apparatus and circuit. No. 1,138,991; May 11; Gaz. vol. 214; p. 484.
- Sohm, Alfred L., Los Angeles, Cal., assignor to Sohme Electric Signal & Recording Company, Spokane, Wash. Electrical recording apparatus. No. 1,132,884; Mar. 23; Gaz. vol. 212; p. 1194.
- Sohm, Alfred L., Los Angeles, Cal., assignor to Sohme Electric Signal & Recording Company, Spokane, Wash. Visual-signal station. No. 1,138,988; May 11; Gaz. vol. 214; p. 483.

Alphabetical list of patentees—Continued.

- Sohm, Alfred L., Los Angeles, Cal., assignor to Sohms Electric Signal & Recording Company, Spokane, Wash. Time-clock mechanism. No. 1,138,989; May 11; Gaz. vol. 214; p. 483.
- Sohm, Alfred L., Los Angeles, Cal., assignor to Sohms Electric Signal & Recording Company, Chicago, Ill. Lock. No. 1,141,215; June 1; Gaz. vol. 215; p. 44.
- Sohm, Alfred L., assignor to Sohms Electric Signal & Recording Company, Chicago, Ill. Electrical recording apparatus. No. 1,141,216; June 1; Gaz. vol. 215; p. 45.
- Sohm, Alfred L., assignor to Sohms Electric Signal & Recording Company, Chicago, Ill. Code-signal device. No. 1,141,870; June 29; Gaz. vol. 215; p. 1449.
- Sohm, Alfred L., Chicago, Ill., assignor, by mesne assignments, to Sohms Electric Company. Time-controlled electrical contact mechanism. No. 1,149,866; Aug. 10; Gaz. vol. 217; p. 597.
- Sohms Electric Company. (See Sohms, Alfred L., assignor.)
- Sohms Electric Signal & Recording Company. (See Sohms, Alfred L., assignor.)
- Sohn, Andrew G., Leavenworth, Kans. Door locking and operating mechanism. No. 1,125,754; Jan. 19; Gaz. vol. 210; p. 981.
- Sohn, Frederick, Washington, D. C. Carbureter. No. 1,134,021; Mar. 30; Gaz. vol. 212; p. 1631.
- Sohn, Frederick, Washington, D. C. Carburetor-valve. No. 1,161,742; Nov. 23; Gaz. vol. 220; p. 1304.
- Sokal, Bernhard. (See Glas and Sokal.)
- Sokolov, Jacob, New York, N. Y. Wrench. No. 1,159,428; Nov. 9; Gaz. vol. 220; p. 387.
- Sokolowski, Theophile, Detroit, Mich., assignor of one-half to E. F. Maritz, St. Louis, Mo. Combined resilient support for watch-staff bearings and regulating-fingers. No. 1,128,068; Feb. 9; Gaz. vol. 211; p. 533.
- Solaini, Peter, New York, N. Y. Embroidery device. No. 1,141,217; June 1; Gaz. vol. 215; p. 45.
- Solari, A. G., et al. (See Cowgill, Orph W., assignor.)
- Soldati, Martin, and F. J. Klaas, Willows, Cal. Fender. No. 1,126,897; Feb. 2; Gaz. vol. 211; p. 81.
- Soldier, Michael, Gillespie, Ill. Clothes-line support. No. 1,130,038; Mar. 2; Gaz. vol. 212; p. 67.
- Solem, Peter A., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Woodworking machinery. No. 1,135,411; Apr. 13; Gaz. vol. 213; p. 514.
- Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Lock. No. 1,141,019; May 25; Gaz. vol. 214; p. 1266.
- Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 1,142,638; June 8; Gaz. vol. 215; p. 581.
- Soley, Harry. (See Hopper and Soley.)
- Solinger, Albert B., Sackett, Pa. Coupling for oil-wells. No. 1,138,421; May 4; Gaz. vol. 214; p. 247.
- Sollis, Walter F., and J. Lambert, Battersea, London, England. Apparatus for casting metals. No. 1,150,974; Aug. 24; Gaz. vol. 217; p. 1104.
- Soloman, Abraham. (See Andres, Charles M., assignor.)
- Solomon, Chapman, Jr., San Francisco, Cal., assignor to Cary Manufacturing Company, New York, N. Y. Metallic box-strap. No. 1,145,932; July 13; Gaz. vol. 216; p. 354.
- Solomon, David P., Berkeley, Cal. Trolley-finder. No. 1,161,421; Nov. 23; Gaz. vol. 220; p. 1195.
- Solomon, Edgar J., Peoria, Ill., assignor to Avery Company. Traction device for vehicle-wheels. No. 1,132,805; Mar. 23; Gaz. vol. 212; p. 1167.
- Solomon, Jacob, East St. Louis, Ill. Peel-plate. No. 1,134,494; Apr. 6; Gaz. vol. 213; p. 150.
- Solomon, Sigmund. (See Siegel, Myer, assignor.)
- Solon, Louis H., Cedar Rapids, Iowa. Tamping device for block-molds. No. 1,165,809; Dec. 28; Gaz. vol. 221; p. 1199.
- Somers, Clinton E., assignor to E. T. Galley, Los Angeles, Cal. Window construction. No. 1,138,326; May 4; Gaz. vol. 214; p. 213.
- Somers, John G., New York, N. Y. Elevator signal system. No. 1,165,139; Dec. 21; Gaz. vol. 221; p. 928.
- Somers, Thomas F., New York, N. Y., assignor to Birdsey-Somers Company. Corset. No. 1,147,453; July 20; Gaz. vol. 216; p. 908.
- Somers, Thomas F., assignor to Birdsey Somers Company, New York, N. Y. Corset-steel. No. 1,147,454; July 20; Gaz. vol. 216; p. 909.
- Somers, William, South Norwalk, and S. S. Dimond, Bridgeport, Conn., assignors to R. & G. Corset Co., Inc., New York, N. Y. Ironing-machine. No. 1,129,314; Feb. 23; Gaz. vol. 211; p. 1052.
- Somers, William A., New York, N. Y. Safety-razor. No. 1,134,706; Apr. 6; Gaz. vol. 213; p. 228.
- Somerset Door and Column Company. (See Beabes, Harvey J., assignor.)
- Somershow, Christian, Philadelphia, Pa. Rail-tie. No. 1,129,747; Feb. 23; Gaz. vol. 211; p. 1200.
- Somerville, Henry M., Bluefield, W. Va. Wire-suspension clamp. No. 1,149,096; Aug. 3; Gaz. vol. 217; p. 215.
- Somerville, James B., et al. (See Westwood, John T., assignor.)
- Somerville, Thomas W. (See Galloway and Somerville.)
- Somerville, William E., Coal City, Ill. Toilet. No. 1,130,441; Mar. 2; Gaz. vol. 212; p. 209.
- Somerville, William E., Coal City, Ill. Flying-machine. No. 1,154,214; Sept. 21; Gaz. vol. 218; p. 723.
- Sommer, Adolph. (See Buckley, John, assignor.)
- Sommer, Edward J. A., Sloan, N. Y. Ice-mobile. No. 1,128,195; Feb. 9; Gaz. vol. 211; p. 577.
- Sommer, Gustav F., assignor of one-half to W. R. Sommer, Jersey City, N. J. Folding-crib attachment for beds. No. 1,146,031; July 13; Gaz. vol. 216; p. 390.
- Sommer, Henry J., Hollidaysburg, Pa. Safety-trap for sewerage systems. No. 1,164,882; Dec. 21; Gaz. vol. 221; p. 836.
- Sommer, William H., Peoria, Ill. Making a metallic structure. No. 1,143,655; June 22; Gaz. vol. 215; p. 1000.
- Sommer, William H., Peoria, Ill. Wire gate. No. 1,157,054; Oct. 19; Gaz. vol. 219; p. 659.
- Sommer, William H., Peoria, Ill. Gate. No. 1,157,055; Oct. 19; Gaz. vol. 219; p. 659.
- Sommer, William R. (See Sommer, Gustav F., assignor.)
- Sommerfeld, Abraham. (See Baumann and Sommerfeld.)
- Sommerfeld, August, St. Louis, Mo. Propeller for swimmers. No. 1,130,209; Mar. 2; Gaz. vol. 212; p. 128.
- Sommerfeld, William, assignor to Sears, Roebuck and Company, Chicago, Ill. Rifle-target. No. 1,162,814; Dec. 7; Gaz. vol. 221; p. 29.
- Sommers, John, and M. A. Gibson, St. Joseph, Mo. Fastening for mail-matter and other packages. No. 1,125,755; Jan. 19; Gaz. vol. 210; p. 982.
- Sommers, John A., Plentywood, Mont. Heating system for engines. No. 1,159,726; Nov. 9; Gaz. vol. 220; p. 494.
- Son, Charles A., San Francisco, Cal. Dice-box. No. 1,127,303; Feb. 2; Gaz. vol. 211; p. 223.
- Sondack, Abraham, New York, N. Y. Bedpost-bracket. No. 1,155,764; Oct. 5; Gaz. vol. 219; p. 152.
- Sonderregger, Leo, assignor of one-half to W. Meyer, New York, N. Y. Window-cleaner. No. 1,137,546; Apr. 27; Gaz. vol. 213; p. 1349.
- Sondheim, Lewis H., New York, N. Y. Lead-pencil. No. 1,125,890; Jan. 19; Gaz. vol. 210; p. 1027.
- Sondheim, Lewis H., New York, N. Y. Pencil. No. 1,158,736; Nov. 2; Gaz. vol. 220; p. 113.
- Sonk, Joseph, assignor of one-third to E. Lipka, Pittsburgh, Pa. Combined kitchen-cabinet and table. No. 1,161,079; Nov. 23; Gaz. vol. 220; p. 1070.
- Sonne-Hansen, Johannes, Copenhagen, Denmark. Printing apparatus. No. 1,147,760; July 27; Gaz. vol. 216; p. 1041.
- Sonneborn, Charles, West Pittsburg, assignor to Pressed Metal Radiator Company, Pittsburgh, Pa. Forming-dies. No. 1,149,694; Aug. 10; Gaz. vol. 217; p. 536.
- Sonneborn, Charles, West Pittsburg, assignor to Pressed Metal Radiator Company, Pittsburgh, Pa. Trimming-dies. No. 1,149,695; Aug. 10; Gaz. vol. 217; p. 536.
- Sonneborn, Charles, West Pittsburg, assignor to Pressed Metal Radiator Company, Pittsburgh, Pa. Edging-die. No. 1,151,624; Aug. 31; Gaz. vol. 217; p. 1372.
- Sonneborn, Charles, West Pittsburg, assignor to Pressed Metal Radiator Company, Pittsburgh, Pa. Closing-die. No. 1,151,625; Aug. 31; Gaz. vol. 217; p. 1372.
- Sonneborn, Charles, West Pittsburg, assignor to Pressed Metal Radiator Company, Pittsburgh, Pa. Making sheet-metal radiators. No. 1,158,576; Nov. 2; Gaz. vol. 220; p. 50.
- Sonneborn, Charles, West Pittsburg, assignor to Pressed Metal Radiator Company, Pittsburgh, Pa. Machine for connecting radiator-sections. No. 1,158,868; Nov. 2; Gaz. vol. 220; p. 161.
- Sonnenberg, Joseph, Alida, Minn. Motor-propelled vehicle. No. 1,129,748; Feb. 23; Gaz. vol. 211; p. 1200.
- Sonnenburg, Edward J., San Diego, Cal. Extensible spring for bookbinders. No. 1,123,608; Jan. 5; Gaz. vol. 210; p. 141.
- Sonnenlag, Jacob A., Boyd, Wis. Stone-picker. No. 1,163,700; Dec. 14; Gaz. vol. 221; p. 383.
- Sonnery, Jean. (See Girard and Sonnery.)
- Sonnichsen, Andreas M., assignor to The Auto Parts Mfg. Co., Milwaukee, Wis. Automobile-buffer. No. 1,135,066; Apr. 13; Gaz. vol. 213; p. 395.
- Sonntag, Eugene, New York, N. Y. Window-screen. No. 1,136,730; Apr. 20; Gaz. vol. 213; p. 1021.
- Sonora Phonograph Corporation. (See Hoschke, William E., assignor.)
- Sonsikowski, John K. (See Sonsikowski, Joseph J. and J. K.)
- Sonsikowski, Joseph J. and J. K., Chicago, Ill. Game or toy. No. 1,136,625; Apr. 20; Gaz. vol. 213; p. 983.
- Soon, Chin K., Seattle, Wash. Knitted garment. No. 1,160,542; Nov. 16; Gaz. vol. 220; p. 835.
- Sooy, Ephraim C., Kansas City, Mo. System and apparatus for the drainage and reclamation of inundated surfaces of land. No. 1,142,125; June 8; Gaz. vol. 215; p. 404.
- Sörensen, Carl A. T., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Journaling device for shafts and other parts. No. 1,156,188; Oct. 12; Gaz. vol. 219; p. 325.
- Sorensen, Frank. (See Robson, Clarence E., assignor.)
- Sorensen, John, Brooklyn, N. Y. Automatic feed apparatus for evaporator-shells. No. 1,166,273; Dec. 28; Gaz. vol. 221; p. 1366.
- Sorensen, John S., assignor to Sprout, Waldron & Company, Muncy, Pa. Attrition-mill. No. 1,146,032; July 13; Gaz. vol. 216; p. 390.

Alphabetical list of patentees—Continued.

- Sorensen, John S., assignor to Sprout, Waldron & Company, Muncy, Pa. Single-head attrition-mill. No. 1,146,033; July 13; Gaz. vol. 216; p. 391.
- Sorensen, John S., assignor to Sprout, Waldron & Company, Muncy, Pa. Attrition-mill. No. 1,146,034; July 13; Gaz. vol. 216; p. 391.
- Sorensen, John S., assignor to Sprout, Waldron & Company, Muncy, Pa. Shaft-bearing. No. 1,146,740; July 13; Gaz. vol. 216; p. 637.
- Sorensen, Lars. (See Husted, Sorensen, and Murphy.)
- Sorensen, Severin N. (See Rohne, Even J., assignor.)
- Sorenson, Eugene A., Whitehall, Wis. Piston packing-ring. No. 1,126,898; Feb. 2; Gaz. vol. 211; p. 82.
- Soresl, Angelo L., New York, N. Y. Instrument for the transfusion of blood. No. 1,151,300; Aug. 24; Gaz. vol. 217; p. 1214.
- Soresl, Angelo L., New York, N. Y. Operating-table. No. 1,166,018; Dec. 28; Gaz. vol. 221; p. 1272.
- Soret, Célestin, Havre, France. Audiphone. No. 1,154,069; Sept. 21; Gaz. vol. 218; p. 674.
- Sorg, William A., Minneapolis, Minn., assignor, by mesne assignments, to F. G. Bradbury, trustee, St. Paul, Minn. Combustion-engine. No. 1,147,455; July 20; Gaz. vol. 216; p. 909.
- Sorg, William A., Minneapolis, Minn., assignor, by mesne assignments, to F. G. Bradbury, trustee. Combustion-engine. No. 1,153,526; Sept. 14; Gaz. vol. 218; p. 451.
- Sorg, William A., Minneapolis, assignor, by mesne assignments, to F. G. Bradbury, trustee, Duluth, Minn. Combustion-engine. No. 1,161,353; Nov. 23; Gaz. vol. 220; p. 1170.
- Sorg, William A., Minneapolis, assignor, by mesne assignments, to F. G. Bradbury, trustee, Duluth, Minn. Combustion-engine. No. 1,161,354; Nov. 23; Gaz. vol. 220; p. 1171.
- Sosebee, Survetus F., Benjamin, Tex. Stalk-cutter. No. 1,128,539; Feb. 16; Gaz. vol. 211; p. 746.
- Soss, Charles J., assignor of one-third to H. Soss and one-third to S. Soss, New York, N. Y. Hinge. No. 1,153,720; Sept. 14; Gaz. vol. 218; p. 519.
- Soss, Henry, *et al.* (See Soss, Charles J., assignor.)
- Soss, Samuel, *et al.* (See Soss, Charles J., assignor.)
- Sotak, Paul, Homer City, Pa. Rail-joint and supporting-tie. No. 1,144,567; June 29; Gaz. vol. 215; p. 1344.
- Soldorus, George. (See Boeck, William C., assignor.)
- Sotton, Claude, Romainville, France. Linear gage. No. 1,124,670; Jan. 12; Gaz. vol. 210; p. 560.
- Soty, Joseph, New York, N. Y. Demountable and adjustable skate. No. 1,142,855; June 15; Gaz. vol. 215; p. 695.
- Souder, Frank P., Bridgeton, N. J. Can-straightening means. No. 1,135,732; Apr. 13; Gaz. vol. 213; p. 628.
- Souder, Frederick H., Lansdale, Pa. Concrete-pipe mold. No. 1,150,828; Aug. 17; Gaz. vol. 217; p. 996.
- Soukup, Wencel W. (See Fedl, Henry G., assignor.)
- Soule, Arthur C., San Francisco, Cal. Window. No. 1,124,671; Jan. 12; Gaz. vol. 210; p. 560.
- Soule, Arthur C., San Francisco, assignor of one-half to W. B. Thurman, Madera, Cal. Window. No. 1,155,014; Sept. 28; Gaz. vol. 218; p. 1025.
- Soule, Arthur C., and L. A. Larsen, assignors, by mesne assignments, to The Simplex Window Company, San Francisco, Cal. Window. No. 1,159,604; Nov. 9; Gaz. vol. 220; p. 450.
- Soulé, Edward, New York, assignor of one-half to E. Buff, Brooklyn, N. Y. Automobile-signal. No. 1,127,103; Feb. 2; Gaz. vol. 211; p. 155.
- Soule, Herbert C., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Stationary inductive apparatus. No. 1,140,922; May 25; Gaz. vol. 214; p. 1234.
- Soule, Solomon A., Frances, Wash. Sled-plate. No. 1,130,115; Mar. 2; Gaz. vol. 212; p. 95.
- Soule, Solomon A., Frances, Wash. Flue-cleaner. No. 1,147,824; July 27; Gaz. vol. 216; p. 1063.
- Soule, Stephen M., Palmyra, N. Y. Stovepipe-holder. No. 1,159,117; Nov. 2; Gaz. vol. 220; p. 244.
- South, John T., Rice, Tex. Boll breaking or crushing machine. No. 1,158,010; Oct. 26; Gaz. vol. 219; p. 1056.
- South Metropolitan Gas Company. (See Evans, Edward V., assignor.)
- South Side Trust Company, trustee. (See Herr, Henry C., assignor.)
- Southard, George B., Redlands, assignor of one-fourth to N. N. Childs and one-fourth to T. A. Nye, Los Angeles, Cal. Mechanism for forming planting-pots. No. 1,147,276; July 20; Gaz. vol. 216; p. 844.
- Souther, John F., Arlington, Mass. Ice-making machine. No. 1,127,104; Feb. 2; Gaz. vol. 211; p. 155.
- Southern Cotton Oil Company. (See Wesson, David, assignor.)
- Southern Cotton Oil Company, The. (See Woodruff, John C., assignor.)
- Southern-Electro Chemical Company. (See Hechenbleikner, Ingenuln, assignor.)
- Southern Gypsum Company. (See Williams, David C., assignor.)
- Southern Investment Co. of Canada Ltd. (See Haff and Willson, assignors.)
- Southern Investment Co. of Canada Ltd. (See Willson and Haff, assignors.)
- Southern Locomotive Valve Gear Company. (See Brown, William S., assignor.) (Reissue.)
- Southern Rosin Turpentine Company. (See Gardner, Joshua G., assignor.)
- Southgate, Louis W., Worcester, Mass., assignor to The Auto Pneumatic Action Company. Paper-winding mechanism. No. 1,142,988; June 15; Gaz. vol. 215; p. 743.
- Southgate, Louis W., Worcester, Mass., assignor to The Auto Pneumatic Action Company. Tracking device. No. 1,163,274; Dec. 7; Gaz. vol. 221; p. 188.
- Southgate Machinery Company. (See Upham, Burt F., assignor.)
- Southworth, Harrison H., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Device for supplying cooling-water. No. 1,139,461; May 11; Gaz. vol. 214; p. 650.
- Southworth, Harrison H., and G. A. Gase, assignors, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Automatic shut-off valve. No. 1,139,462; May 11; Gaz. vol. 214; p. 650.
- Southworth, Harrison H., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Refrigerating apparatus. No. 1,162,313; Nov. 30; Gaz. vol. 220; p. 1551.
- Southworth, Harrison H., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Fuel-gas burner. No. 1,162,315; Nov. 30; Gaz. vol. 220; p. 1552.
- Southworth, Harrison H., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Refrigerating apparatus. No. 1,162,316; Nov. 30; Gaz. vol. 220; p. 1552.
- Southworth, Harrison H., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Controlling device for refrigerating apparatus. No. 1,162,318; Nov. 30; Gaz. vol. 220; p. 1553.
- Southworth, Harrison H., assignor, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Pressure-reducing device for refrigerating apparatus. No. 1,162,319; Nov. 30; Gaz. vol. 220; p. 1554.
- Southworth, Harrison H., Cleveland, Ohio, and F. W. Wolf, Chicago, Ill., assignors, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Refrigerating apparatus. No. 1,139,460; May 11; Gaz. vol. 214; p. 649.
- Southworth, Harrison H., and G. A. Gase, assignors, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Fuel-gas-controlling valve. No. 1,162,314; Nov. 30; Gaz. vol. 220; p. 1552.
- Southworth, Harrison H., and G. A. Gase, assignors, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Automatic shut-off valve. No. 1,162,317; Nov. 30; Gaz. vol. 220; p. 1553.
- Southworth, Harrison H., Cleveland, Ohio, and C. G. Armstrong, New York, N. Y., assignors, by mesne assignments, to The Iceless Machine Company, Cleveland, Ohio. Refrigeration. No. 1,165,633; Dec. 28; Gaz. vol. 221; p. 1138.
- Southworth, Henry E., assignor to Porter Screen Company, Burlington, Vt. Window-screen. No. 1,153,140; Sept. 7; Gaz. vol. 218; p. 273.
- Southworth Machine Company. (See Cobb, Elmer M., assignor.)
- Soutter, Charles, Brunswick, Victoria, Australia. Bronzing and dusting attachment for printing and lithographing machines. No. 1,149,413; Aug. 10; Gaz. vol. 217; p. 433.
- Souza, Manuel J., Selma, Cal. Non-refillable bottle. No. 1,134,647; Apr. 6; Gaz. vol. 213; p. 206.
- Sowden, Charles N., Soledad, Guantnamo, Cuba. Vacuum-pump. No. 1,160,207; Nov. 16; Gaz. vol. 220; p. 717.
- Sowers, David W., Buffalo, N. Y., and H. D. Walker, Grimsby, Ontario, Canada. Means for coupling rotatable devices. No. 1,128,069; Feb. 9; Gaz. vol. 211; p. 534.
- Sowers Manufacturing Company. (See Walker, Hugh D., assignor.)
- Spacke, Fred W. (See Brownlee, Spacke, and Lowe.)
- Spacke, Fred W., D. T. Brownlee, and W. Spacke, assignors to The F. W. Spacke Machine Company, Indianapolis, Ind. Crank-shaft. No. 1,136,376; Apr. 20; Gaz. vol. 213; p. 895.
- Spacke, William. (See Spacke, Brownlee, and Spacke.)
- Spackman, Henry S., Ardmore, Pa., and E. W. Lazell, Portland, Oreg.; said Lazell assignor to said Spackman. Plaster composition and making the same. No. 1,142,989; June 15; Gaz. vol. 215; p. 744.
- Spade, Herbert O., assignor of three-fourths to G. E. Allen, Kalamazoo, Mich. Wrench. No. 1,147,761; July 27; Gaz. vol. 216; p. 1042.
- Spady, Ludwig, Portland, Oreg. Disappearing ironing-board attachment for kitchen-tables. No. 1,140,411; May 25; Gaz. vol. 214; p. 1054.
- Spahr, Otto. (See Strause and Spahr.)
- Spahr, Otto, Philadelphia, Pa. Bottle-closure. No. 1,143,656; June 22; Gaz. vol. 215; p. 1000.
- Spahr, Otto, Philadelphia, Pa. Bottle-closure. No. 1,156,562; Oct. 12; Gaz. vol. 219; p. 456.
- Spaid, Charles F., Lehigh, W. Va. Ladder. No. 1,162,261; Nov. 30; Gaz. vol. 220; p. 1533.
- Spain, William J. (See Bohleber, William, assignor.)

- Spalckhaver, William, Brooklyn, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,156,378; Oct. 12; Gaz. vol. 219; p. 391.
- Spalding, Charles R., Safford, Ariz. Automobile-jack. No. 1,137,362; Apr. 27; Gaz. vol. 213; p. 1286.
- Spalding, Frank P., St. Louis, Mo. Puncture-proof tire. No. 1,132,693; Mar. 23; Gaz. vol. 212; p. 1124.
- Spalding, James F., Kansas City, Mo. Folding extensible stool. No. 1,152,987; Sept. 7; Gaz. vol. 218; p. 223.
- Spalding, James F., Kansas City, Mo. Catheter-user's standard apparatus. No. 1,154,668; Sept. 28; Gaz. vol. 218; p. 910.
- Spalding, James F., Kansas City, Mo. Collapsible duplex flash-light belt. No. 1,155,377; Oct. 5; Gaz. vol. 219; p. 18.
- Spalding, James F., Kansas City, Mo. Catheter-user's traveling apparatus. No. 1,161,261; Nov. 23; Gaz. vol. 220; p. 1138.
- Spall, Martin, Alliance, Ohio. Toilet-paper holder. No. 1,158,577; Nov. 2; Gaz. vol. 220; p. 59.
- Spangelo, Albert N., Darlingford, Manitoba, Canada, and F. O. Spangelo, Concrete, N. D. Belt-applying device. No. 1,158,737; Nov. 2; Gaz. vol. 220; p. 114.
- Spangelo, Frederick O. (See Spangelo, Albert N. and F. O.)
- Spangenberg, John M. L., Forsbaga, Sweden. Transport-lorry. No. 1,138,422; May 4; Gaz. vol. 214; p. 247.
- Spangenberg, John M. L., Forsbaga, Sweden. Sorter for paper-pulp and the like. No. 1,163,275; Dec. 7; Gaz. vol. 221; p. 189.
- Spangler, Chester L., Mayfield, Kans. Differential gearing. No. 1,129,366; Feb. 23; Gaz. vol. 211; p. 1070.
- Spangler, James M., Canton, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Suction carpet-sweeper. No. 1,151,731; Aug. 31; Gaz. vol. 217; p. 1407.
- Spangler, John H., assignor of one-half to J. A. Nelson, Minneapolis, Minn. Resilient wheel. No. 1,144,073; June 22; Gaz. vol. 215; p. 1145.
- Spangler, Ira D., Salida, Colo., assignor of one-half to P. H. Spangler, Callender, Iowa. Six-speed combination gear set. No. 1,137,547; Apr. 27; Gaz. vol. 213; p. 1349.
- Spangler, Perry H. (See Spangler, Ira D., assignor.)
- Spangler, William, Rock Falls, Ill. Glass-chipping tool. No. 1,162,815; Dec. 7; Gaz. vol. 221; p. 30.
- Spanish Mission Tile Company. (See Hellyar, Cochran, and Waggoner, assignors.)
- Spanovic, Ninko, Pittsburgh, Pa., assignor of one-half to H. A. Phillips, Washington, D. C. Bicycle propulsion. No. 1,141,364; June 1; Gaz. vol. 215; p. 99.
- Spanutius, Frederick W., assignor to Pan Chemical Company, Hastings-upon-Hudson, N. Y. Making a decolorizer. No. 1,135,216; Apr. 13; Gaz. vol. 213; p. 446.
- Spar Chemical Company, The. (See Bassett, Harry P., assignor.)
- Spare, George E., deceased, New York, N. Y.; R. H. Spare, executor, Reading, Mass. Detachable antislipping tread for horses. No. 1,136,903; Apr. 20; Gaz. vol. 213; p. 1082.
- Spare, Robert H., executor. (See Spare, George E.)
- Sparhawk, Frank O., Painter, Wyo. Automatic train-stop. No. 1,161,743; Nov. 23; Gaz. vol. 220; p. 1305.
- Sparks Drilling Jar Company. (See Sparks, William A., assignor.)
- Sparks, Edwin J., et al. (See Reams and Hopkins, assignors.)
- Sparks, Fred C., Des Moines, Iowa. Package-tie. No. 1,151,058; Aug. 24; Gaz. vol. 217; p. 1132.
- Sparks, Fred E., Charleston, W. Va. Sash-lock. No. 1,126,113; Jan. 26; Gaz. vol. 210; p. 1142.
- Sparks, John G., New York, N. Y. Automatic stop for railways. No. 1,158,326; Oct. 26; Gaz. vol. 219; p. 1168.
- Sparks, Joseph, Portland, Oreg. Edger set-works. No. 1,150,551; Aug. 17; Gaz. vol. 217; p. 901.
- Sparks, Laban, administrator. (See Perky, Henry D.)
- Sparks, Levi C., Maplewood, assignor to American Car and Foundry Company, St. Louis, Mo. Drop-brake-shaft mechanism. No. 1,164,318; Dec. 14; Gaz. vol. 221; p. 599.
- Sparks, Lewis E., Memphis, Tenn. Garbage-burning furnace. No. 1,132,494; Mar. 16; Gaz. vol. 212; p. 1003.
- Sparks, Oscar C., Elwood, Ind. Nut-lock. No. 1,142,464; June 8; Gaz. vol. 215; p. 523.
- Sparks, Quince L., Stamping Ground, Ky. Demountable wheel-rim. No. 1,165,810; Dec. 28; Gaz. vol. 221; p. 1200.
- Sparks, Thomas H., Wichita, Kans. Vehicle spring suspension. No. 1,131,281; Mar. 9; Gaz. vol. 212; p. 533.
- Sparks, Thomas H., Wichita, Kans. Spring apparatus for vehicles. No. 1,150,714; Aug. 17; Gaz. vol. 217; p. 956.
- Sparks, Thomas H., Wichita, Kans. Differential gear. No. 1,165,915; Dec. 28; Gaz. vol. 221; p. 1236.
- Sparks, Troy W., Eden, Tex. Automatic controller for cotton-trampers. No. 1,141,218; June 1; Gaz. vol. 215; p. 45.
- Sparks, Walter, New York, N. Y., assignor of one-half to G. A. Annable, Binder. No. 1,140,079; May 18; Gaz. vol. 214; p. 904.
- Sparks, William, Jackson, Mich. Fan. No. 1,137,240; Apr. 27; Gaz. vol. 213; p. 1241.
- Sparks, William, assignor to The Sparks-Withington Company, Jackson, Mich. Centrifugal pump. No. 1,128,822; Feb. 16; Gaz. vol. 211; p. 843.
- Sparks, William, assignor to The Sparks-Withington Company, Jackson, Mich. Combined electric and pneumatic horn. No. 1,137,239; Apr. 27; Gaz. vol. 213; p. 1241.
- Sparks, William A., assignor to Sparks Drilling Jar Company, Charleston, W. Va. Making well drill-jars. No. 1,134,926; Apr. 6; Gaz. vol. 213; p. 300.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,802; May 4; Gaz. vol. 214; p. 28.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,137,803; May 4; Gaz. vol. 214; p. 28.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,141,150; June 1; Gaz. vol. 215; p. 21.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,141,984; June 8; Gaz. vol. 215; p. 351.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Night-latch. No. 1,148,549; Aug. 3; Gaz. vol. 217; p. 23.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,151,225; Aug. 24; Gaz. vol. 217; p. 1190.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Bench-plane. No. 1,151,301; Aug. 24; Gaz. vol. 217; p. 1215.
- Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Plane. No. 1,164,232; Dec. 14; Gaz. vol. 221; p. 567.
- Sparks-Withington Company, The. (See Sparks, William, assignor.)
- Sparring, John E., Boston, Mass. Shaft-coupling. No. 1,163,276; Dec. 7; Gaz. vol. 221; p. 189.
- Sparr, Harry H., and L. H. Neujahr, Denver, Colo. Cut-off valve. No. 1,160,664; Nov. 16; Gaz. vol. 220; p. 880.
- Sparre, Fin, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 1,128,380; Feb. 16; Gaz. vol. 211; p. 689.
- Sparre, Fin, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Production of organic solvents. No. 1,148,258; July 27; Gaz. vol. 216; p. 1218.
- Sparre, Fin, and W. E. Masland, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for chlorination. No. 1,148,259; July 27; Gaz. vol. 216; p. 1218.
- Sparre, Pierre A., London, England. Means for starting aeroplanes. No. 1,161,744; Nov. 23; Gaz. vol. 220; p. 1305.
- Sparta Mfg. Co. (See Bristol and Vorce, assignors.)
- Spatz, Albert, Elshah, Ill. Nut-lock. No. 1,155,286; Sept. 28; Gaz. vol. 218; p. 1116.
- Spaulding, Algernon S., Worcester, Mass., assignor to Thomas & Company, Inc. Sanding-machine. No. 1,142,063; June 8; Gaz. vol. 215; p. 380.
- Spaulding, Carl E., Lowell, Mass. Tension-pulley-supporting bracket. No. 1,136,626; Apr. 20; Gaz. vol. 213; p. 984.
- Spaulding, Elijah F., Brooklyn, N. Y. Vending-machine. No. 1,148,807; Aug. 3; Gaz. vol. 217; p. 117.
- Spaulding, Huntley N., assignor to J. Spaulding & Sons Co., Rochester, N. H. Insole. No. 1,135,217; Apr. 13; Gaz. vol. 213; p. 446.
- Spaulding, L. D. (See Anderson, Charles O., assignor.)
- Spaulding & Sons Co., J. (See Lougee and English, assignors.)
- Spaulding & Sons Co., J. (See Lougee and Morrison, assignors.)
- Spaulding & Sons Company, J. (See Lancey, Roswell A., assignor.)
- Spaulding and Sons Company, J. (See Lougee, William S., assignor.)
- Spaulding, Walter J., Santa Barbara, Cal. Gradometer. No. 1,136,731; Apr. 20; Gaz. vol. 213; p. 1022.
- Spazier, Morris, Cincinnati, Ohio. Apparatus for the manufacture of sodium-carbonate crystals. No. 1,127,691; Feb. 9; Gaz. vol. 211; p. 397.
- Speakman Supply & Pipe Co. (See Speakman, Willard A., assignor.) (Reissue.)
- Speakman, Willard A., assignor to Speakman Supply & Pipe Co., Wilmington, Del. Combination supply and waste fixture for lavatories. (Reissue.) No. 1,129,943; July 6; Gaz. vol. 216; p. 316.
- Spear, Frances E., Burlington, Vt. Needle-threading device. No. 1,147,656; July 20; Gaz. vol. 216; p. 979.
- Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Signal-lamp. No. 1,145,624; July 6; Gaz. vol. 216; p. 226.
- Spear, George E., Amesbury, assignor to Standard Thermometer Company, Boston, Mass. Thermometer. No. 1,161,262; Nov. 23; Gaz. vol. 220; p. 1138.
- Spear, Howard A., assignor of one-half to J. W. Stacy, Springfield, Mass. Vehicle-lamp. No. 1,147,344; July 20; Gaz. vol. 216; p. 867.

Alphabetical list of patentees—Continued.

- Spear, John R., and J. M. Beattie, Winnipeg, Manitoba, Canada. Ground-strip fastener. No. 1,145,933; July 13; Gaz. vol. 216; p. 355.
- Spear, Lawrence Y., Groton, Conn., assignor to Electric Boat Company, New York, N. Y. Propelling apparatus for vessels. No. 1,152,567; Sept. 7; Gaz. vol. 218; p. 70.
- Spear, Lawrence Y., Groton, Conn., assignor to Electric Boat Company, New York, N. Y. Submarine boat. No. 1,153,267; Sept. 14; Gaz. vol. 218; p. 357.
- Spear, Lawrence Y., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Hull construction of submarine boats. No. 1,154,215; Sept. 21; Gaz. vol. 218; p. 723.
- Spear, William H., Bismarck, N. D. Whiffletree-hook. No. 1,135,733; Apr. 13; Gaz. vol. 213; p. 628.
- Spears, Alfred T., Oklahoma, Okla., assignor to The Spears Improved Tie Company. Device for fastening rails to railway-ties. No. 1,123,415; Jan. 5; Gaz. vol. 210; p. 45.
- Spears, Henry M., Lillington, N. C. Stove attachment. No. 1,151,412; Aug. 24; Gaz. vol. 217; p. 1250.
- Spears Improved Tie Company, The. (See Spears, Alfred T., assignor.)
- Spears, Ralph R., Wheeling, W. Va. Timing device. No. 1,124,543; Jan. 12; Gaz. vol. 210; p. 513.
- Spears, Richard D., Homewood, Kans. Row-marking attachment for corn-planters. No. 1,152,345; Aug. 31; Gaz. vol. 217; p. 1621.
- Spears, Thomas R., Midland, Ark. Well-bucket. No. 1,123,944; Jan. 5; Gaz. vol. 210; p. 254.
- Specht, Christ, and T. Williams, Punxsutawney, Pa. Device for converting motion. No. 1,126,899; Feb. 2; Gaz. vol. 211; p. 82.
- Specht, Christ A., assignor of one-half to G. L. Schicker, Punxsutawney, Pa. Bushing for mine-car wheels. No. 1,154,345; Sept. 21; Gaz. vol. 218; p. 760.
- Specialty Development Co., The. (See Wake, Frederick N., assignor.)
- Specialty Manufacturing Company. (See Winkelmeyer, John, assignor.)
- Specialty Shoe Machinery & Tool Co. (See Johnson, Lawrence E., assignor.)
- Specialty Shoe Machinery and Tool Company. (See Crowe, John, assignor.)
- Specification Soap & Oil Co. (See Nienstadt, August E., assignor.)
- Speck, William F., Frenchmans Bayon, Ark. Cotton-harvester. No. 1,153,968; Sept. 21; Gaz. vol. 218; p. 639.
- Specketer, Heinrich, and G. Münch, Griesheim, assignors to Chemische Fabrik Griesheim-Elektro, Frankfurt-on-the-Main, Germany. Production of anhydrous hydro sulfites from aqueous hydrosulfite solutions. No. 1,156,107; Oct. 12; Gaz. vol. 219; p. 298.
- Spedding, Ephraim H. (See Littlefield, Charles A., assignor.)
- Speed, James A., San Francisco, Cal. Carbureter. No. 1,145,172; July 6; Gaz. vol. 216; p. 69.
- Speed, Uriah G., South Bend, Ind. Breast-collar. No. 1,148,632; Aug. 3; Gaz. vol. 217; p. 54.
- Speeple, Emanuel A., Sawtelle, Cal. Current-motor. No. 1,131,617; Mar. 9; Gaz. vol. 212; p. 649.
- Speer, Arthur L. (See Speer, William and A. L.)
- Speer, Eben R. and W. T., Brookville, Ohio. Gate. No. 1,146,360; July 13; Gaz. vol. 216; p. 504.
- Speer, Horace N., New York, N. Y. Oil-indicator for internal-combustion engines. No. 1,140,080; May 18; Gaz. vol. 214; p. 905.
- Speer, Robert G., St. Louis, Mo. Heating apparatus. No. 1,137,675; Apr. 27; Gaz. vol. 213; p. 1391.
- Speer, William and A. L., Baltimore, Md. Centrifugally-operated brake. No. 1,162,411; Nov. 30; Gaz. vol. 220; p. 1583.
- Speer, William T. (See Speer, Eben R. and W. T.)
- Speese, Jasper, West Milton, Pa. Fountain-brush. No. 1,131,012; Mar. 9; Gaz. vol. 212; p. 440.
- Speese, Jasper, West Milton, assignor to The Speese Manufacturing Company, Sunbury, Pa. Fountain-brush. No. 1,127,817; Feb. 9; Gaz. vol. 211; p. 446.
- Speese, Jasper, West Milton, assignor to The Speese Manufacturing Company, Sunbury, Pa. Brush. No. 1,130,442; Mar. 2; Gaz. vol. 212; p. 210.
- Speese Manufacturing Company, The. (See Speese, Jasper, assignor.)
- Speicher, George P. (See Brewer and Shanaman, assignors.)
- Speldel, Charles F. (See Kroedel and Speldel.)
- Speldel, Charles F., assignor to Eastman Kodak Company, Rochester, N. Y. View-finder. No. 1,144,074; June 22; Gaz. vol. 215; p. 1145.
- Speight, Alfred, Wimbledon Park, assignor of one-half to E. W. Meredith, London, England. Construction of resilient wheels. No. 1,160,336; Nov. 16; Gaz. vol. 220; p. 762.
- Spellacy, Martin M. (See Laragy, Edward J., assignor.)
- Speller, Frank N., assignor to National Tube Company, Pittsburgh, Pa. Pipe-coupling. No. 1,141,151; June 1; Gaz. vol. 215; p. 21.
- Speller, Frank N., assignor to National Tube Company, Pittsburgh, Pa. Welded pipe. No. 1,149,696; Aug. 10; Gaz. vol. 217; p. 537.
- Speller, Frank N., assignor to National Tube Company, Pittsburgh, Pa. Making butt-weld pipes. No. 1,149,697; Aug. 10; Gaz. vol. 217; p. 537.
- Spelling, Thomas C., New York, N. Y. Pin-fastener. No. 1,133,247; Mar. 23; Gaz. vol. 212; p. 1324.
- Spelling, Thomas C., New York, N. Y. Monorailway. No. 1,140,412; May 25; Gaz. vol. 214; p. 1055.
- Spellman, Charles L., Washington, D. C. Flax-puller. No. 1,148,058; July 27; Gaz. vol. 216; p. 1147.
- Spence, David, and A. P. Clark, Akron, Ohio, assignors, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y. Production of rubber-like substances from alcohols. No. 1,161,904; Nov. 30; Gaz. vol. 220; p. 1408.
- Spence, Howard, and T. J. I. Craig, assignors to Company of Peter Spence & Sons Limited, Manchester, England. Solution of sodium aluminate. No. 1,157,436; Oct. 19; Gaz. vol. 219; p. 796.
- Spence, John C., assignor to Norton Company, Worcester, Mass. Balanced abrasive wheel. No. 1,130,210; Mar. 2; Gaz. vol. 212; p. 128.
- Spence, Samuel C., assignor to The Sefton Manufacturing Company, Anderson, Ind. Paper receptacle or carton. No. 1,146,904; July 20; Gaz. vol. 216; p. 714.
- Spence & Sons Limited, Company of Peter. (See Spence and Craig, assignors.)
- Spencer, Alvah C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Coupling. No. 1,141,281; June 1; Gaz. vol. 215; p. 68.
- Spencer, Alvah C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Holddown. No. 1,150,072; Aug. 17; Gaz. vol. 217; p. 731.
- Spencer, Arthur C., Washington, D. C. Making potash and structural materials and products thereof. No. 1,146,532; July 13; Gaz. vol. 216; p. 567.
- Spencer, Arthur C., Washington, D. C. Treating zinc tailings. No. 1,150,897; Aug. 24; Gaz. vol. 217; p. 1077.
- Spencer, Arthur C., Washington, D. C. Recovering potash. No. 1,157,437; Oct. 19; Gaz. vol. 219; p. 796.
- Spencer, Arthur C., and K. P. McElroy, Washington, D. C. Making cyanids. No. 1,156,108; Oct. 12; Gaz. vol. 219; p. 298.
- Spencer, Christopher J., and J. W. Dawson, Bradford, England. Pump and pressure-reservoir for brakes or the like. No. 1,158,007; Oct. 26; Gaz. vol. 219; p. 1055.
- Spencer, Christopher M., Hartford, assignor to The New Britain Machine Company, New Britain, Conn. Cam. No. 1,146,035; July 13; Gaz. vol. 216; p. 392.
- Spencer, Earl B., Kenmore, N. Y. Electric heating device. No. 1,128,731; Feb. 16; Gaz. vol. 211; p. 810.
- Spencer, Frank M., G. W. Warnholz, San Francisco, and W. J. Wigmore, Oakland, Cal.; said Spencer and said Wigmore assignors to said Warnholz. Reversible electric motor. No. 1,149,601; Aug. 10; Gaz. vol. 217; p. 499.
- Spencer, Frederick C., Guilford, Conn. Lifting-jack. No. 1,148,863; Aug. 3; Gaz. vol. 217; p. 136.
- Spencer, Frederick W., assignor of one-fourth to T. M. Kowalski, Ionia, Mich. Automobile-radiator. No. 1,157,325; Oct. 12; Gaz. vol. 219; p. 370.
- Spencer, George F. (See Spencer, William H., assignor.)
- Spencer, George F. (See Spencer and Storm, assignors.)
- Spencer, George M., St. Louis, Mo., assignor, by mesne assignments, to National Pneumatic Company. Pneumatic operating mechanism for doors, steps, or the like. No. 1,134,648; Apr. 6; Gaz. vol. 213; p. 206.
- Spencer, George N., Forest Grove, Oreg. Saw-set. No. 1,132,694; Mar. 23; Gaz. vol. 212; p. 1124.
- Spencer, Henry K., Boston, assignor to The Blanchard Machine Company, Cambridge, Mass. Magnetic chuck. No. 1,125,198; Jan. 19; Gaz. vol. 210; p. 782.
- Spencer, Henry W., London, England. Feed-water regulator for steam-boilers. No. 1,150,399; Aug. 17; Gaz. vol. 217; p. 848.
- Spencer, Ira H., assignor, by mesne assignments, to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning apparatus. No. 1,134,022; Mar. 30; Gaz. vol. 212; p. 1632.
- Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Apparatus for creating flow of dirt-laden fluid. No. 1,146,602; July 13; Gaz. vol. 216; p. 591.
- Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Regulator to control the flow of fluid. No. 1,155,525; Oct. 5; Gaz. vol. 219; p. 71.
- Spencer, Ira H., West Hartford, assignor to The Organ Power Company, Hartford, Conn. Organ-blower. No. 1,158,738; Nov. 2; Gaz. vol. 220; p. 114.
- Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning apparatus. No. 1,161,263; Nov. 23; Gaz. vol. 220; p. 1138.
- Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning-tool. No. 1,162,195; Nov. 30; Gaz. vol. 220; p. 1510.
- Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning-tool. No. 1,162,412; Nov. 30; Gaz. vol. 220; p. 1583.
- Spencer, James B., assignor to United States Hoffman Company, Syracuse, N. Y. Garment-pressing machine. No. 1,164,616; Dec. 14; Gaz. vol. 221; p. 701.

- Spencer, James M., Hastings, Fla. Door-holder. No. 1,152,446; Sept. 7; Gaz. vol. 218; p. 22.
- Spencer, John W., and F. P. Schwingel, Chittenango, N. Y. Making cheese. No. 1,159,808; Nov. 9; Gaz. vol. 220; p. 524.
- Spencer Lens Company. (See Barton, Charles W., assignor.)
- Spencer Lens Company. (See Ott, Harvey N., assignor.)
- Spencer Lens Company. (See Ott and Barton, assignors.)
- Spencer Lens Company. (See Ott and Leuchsenring, assignors.)
- Spencer, Lewis P., New Bedford, Mass. Shuttle. No. 1,127,937; Feb. 9; Gaz. vol. 211; p. 488.
- Spencer, Lloyd G., Chicago, Ill. Lantern. No. 1,124,348; Jan. 12; Gaz. vol. 210; p. 443.
- Spencer, Moses, Saylesville, R. I. Protector-guard for tension-pulleys of textile-machines. No. 1,131,167; Mar. 9; Gaz. vol. 212; p. 493.
- Spencer, Nellie G., Seattle, Wash. Flour-sifter. No. 1,148,124; July 27; Gaz. vol. 216; p. 1172.
- Spencer Otis Company. (See De Remer, William L., assignor.)
- Spencer, Robert, and C. C. Bland, Terre Haute, Ind. Fresh-air bed. No. 1,144,075; June 22; Gaz. vol. 215; p. 1145.
- Spencer, Robert E., Toledo, Ohio. Pop-gun. No. 1,149,698; Aug. 10; Gaz. vol. 217; p. 537.
- Spencer, Thomas, assignor to Helios Manufacturing Company, Philadelphia, Pa. Switch for electric-lighting systems. No. 1,145,041; July 6; Gaz. vol. 216; p. 24.
- Spencer Turbine Cleaner Company, The. (See Spencer, Ira H., assignor.)
- Spencer, William, Philadelphia, Pa. Water-heater. No. 1,149,301; Aug. 10; Gaz. vol. 217; p. 393.
- Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Display lighting apparatus. No. 1,124,544; Jan. 12; Gaz. vol. 210; p. 514.
- Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Illuminated sign. No. 1,148,341; July 27; Gaz. vol. 216; p. 1249.
- Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Automobile-indicator. No. 1,163,788; Dec. 14; Gaz. vol. 221; p. 415.
- Spencer, William H., New York, N. Y., and H. C. Storm, Ridgefield Park, N. J., assignors to G. F. Spencer, New York, N. Y. Illuminated sign. No. 1,146,361; July 13; Gaz. vol. 216; p. 504.
- Spencer, William J., New York, N. Y. Tire. No. 1,134,291; Apr. 8; Gaz. vol. 213; p. 76.
- Spendlove, Walter M., and K. Foldack, Brockville, Ontario, Canada. Refilling-preventing stopper. No. 1,151,626; Aug. 31; Gaz. vol. 217; p. 1373.
- Spengler Brothers Company. (See Fetscher, George F., assignor.) (Reissue.)
- Spengler Brothers Company. (See Spengler, Charles C., assignor.)
- Spengler, Charles C., Rockford, assignor to Spengler Brothers Company, Chicago, Ill. Binding-clip. No. 1,150,073; Aug. 17; Gaz. vol. 217; p. 731.
- Sperberg, Edward H., Kansas City, Mo. Moving-picture machine. No. 1,141,588; June 1; Gaz. vol. 215; p. 179.
- Sperling, Henry, West Hoboken, N. J. Fire-escape. No. 1,162,413; Nov. 30; Gaz. vol. 220; p. 1584.
- Sperry, Barton E., Batavia, Ill. Filter-press switch-cock and double-gutter construction. No. 1,157,907; Oct. 26; Gaz. vol. 219; p. 1021.
- Sperry, Elmer A., Brooklyn, N. Y. Vehicle control. No. 1,137,804; May 4; Gaz. vol. 214; p. 29.
- Sperry, Elmer A., Brooklyn, N. Y. Ship's gyroscope. No. 1,150,311; Aug. 17; Gaz. vol. 217; p. 817.
- Sperry, Elmer A., Chicago, Ill. Gas-engine. No. 1,141,985; June 8; Gaz. vol. 215; p. 351.
- Sperry, Elmer A., Cleveland, Ohio., assignor, by mesne assignments, to American Electric and Controller Company. System of power transmission. No. 1,136,058; Apr. 20; Gaz. vol. 213; p. 781.
- Sperry Flour Company. (See Godley and Carroll, assignors.)
- Sperry, Frank E., Aurora, assignor to Aurora Automatic Machinery Company, Chicago, Ill. Locking device for change-speed gearing. No. 1,124,645; Jan. 12; Gaz. vol. 210; p. 514.
- Sperry, Fred W., Port Byron, N. Y. Muffler. No. 1,149,699; Aug. 10; Gaz. vol. 217; p. 537.
- Sperry, Henry T., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Switch-plate. No. 1,131,093; Mar. 9; Gaz. vol. 212; p. 468.
- Sperry, Herbert B., Chicago, Ill. Flour-sifter. No. 1,162,816; Dec. 7; Gaz. vol. 221; p. 30.
- Sperry, Herbert B., Auburn, N. Y., assignor to International Harvester Company of New Jersey. Tandem draft connection. No. 1,161,991; Nov. 30; Gaz. vol. 220; p. 1438.
- Sperry, Samuel E., assignor to International Typesetting Machine Company, New York, N. Y. Slug-ejecting device for line-casting machines. No. 1,123,814; Jan. 5; Gaz. vol. 210; p. 210.
- Sperry, Samuel E., Woodhaven, assignor to International Typesetting Machine Company, New York, N. Y. Line-composing and type-casting machine. No. 1,124,180; Jan. 5; Gaz. vol. 210; p. 334.
- Sperry, Samuel E., Woodhaven, assignor to International Typesetting Machine Company, New York, N. Y. Linotype-machine. No. 1,129,749; Feb. 23; Gaz. vol. 211; p. 1200.
- Sperry, Samuel E., Woodhaven, assignor to International Typesetting Machine Company, New York, N. Y. Magazine-entrance guide for line-composing machines. No. 1,130,641; Mar. 2; Gaz. vol. 212; p. 279.
- Sperry, Samuel E., Woodhaven, and W. H. Orpen, Jr., Brooklyn, assignors to International Typesetting Machine Company, New York, N. Y. Line-casting machine. No. 1,156,040; Oct. 5; Gaz. vol. 219; p. 248.
- Spesha, Joseph, New York, N. Y. Protective wrapper for inner tubes. No. 1,123,609; Jan. 5; Gaz. vol. 210; p. 141.
- Speyer, Hugo W., Union township, Union county, N. J. Game apparatus. No. 1,154,346; Sept. 21; Gaz. vol. 218; p. 770.
- Spicer, Arthur E. (See Pettes and Spicer.)
- Spicer, Clarence W., Plainfield, N. J. Universal joint. No. 1,132,043; Mar. 16; Gaz. vol. 212; p. 838.
- Spicer, Frank M., Quincy, Mass. Insulator. No. 1,161,080; Nov. 23; Gaz. vol. 220; p. 1071.
- Spiegel, Alexander S., Chicago, Ill. Tile-imitating roofing. No. 1,126,114; Jan. 26; Gaz. vol. 210; p. 1142.
- Spiegel, Alexander S., Chicago, Ill. Roofing-package. No. 1,164,422; Dec. 14; Gaz. vol. 221; p. 635.
- Spiegel, Alexander S., and L. F. Lindley, Chicago, Ill. Roofing material. No. 1,157,438; Oct. 19; Gaz. vol. 219; p. 796.
- Spiegel, Alfred, Brooklyn, N. Y. Corset. No. 1,134,023; Mar. 30; Gaz. vol. 212; p. 1633.
- Spiegel, Emil, Warnsdorf, Austria-Hungary. Making leather tires. No. 1,150,715; Aug. 17; Gaz. vol. 217; p. 957.
- Spiegel, Joseph F., assignor of one-fourth to A. de Barbleri and one-fourth to J. E. Dillon, Galeston, Pa. Exhaust-silencer. No. 1,150,898; Aug. 24; Gaz. vol. 217; p. 1077.
- Spier, August J., Celina, Ohio. Preparing catalyzers. No. 1,139,592; May 18; Gaz. vol. 214; p. 731.
- Spielman, Maximilian H., New York, N. Y. Electric cigar-lighter. No. 1,147,277; July 20; Gaz. vol. 216; p. 845.
- Spielman, Maximilian H., New York, N. Y. Electric cigar-lighter. No. 1,164,767; Dec. 21; Gaz. vol. 221; p. 796.
- Spiers, Edgar H., Lagrange, Ga. Railway-tie. No. 1,155,287; Sept. 28; Gaz. vol. 218; p. 1116.
- Spies, Louis, St. Louis, Mo. Bevel-square. No. 1,126,310; Jan. 26; Gaz. vol. 210; p. 1214.
- Spies, Philip J. (See Klein and Spies.)
- Spieß, Arthur. (See Spieß, Georg, assignor.)
- Spieß, Georg, Leipzig-Reudnitz, Germany. Device for placing single sheets in exact position before delivery. No. 1,126,584; Jan. 26; Gaz. vol. 210; p. 1314.
- Spieß, Georg, Leipzig, Germany. Controlling device for use in sheet-feeding and like machines. No. 1,160,208; Nov. 16; Gaz. vol. 220; p. 718.
- Spieß, Georg, Leipzig, Connewitz, assignor to A. Spieß, Mannheim, Baden, Germany. Driving mechanism for sheet-feeders. No. 1,138,327; May 4; Gaz. vol. 214; p. 214.
- Spieß, Jules, Buffalo, N. Y. Explosive-engine. No. 1,128,540; Feb. 16; Gaz. vol. 211; p. 746.
- Spigelman, Samuel, Malden, Mass. Snow-removing apparatus. No. 1,147,984; July 27; Gaz. vol. 216; p. 1120.
- Spill, Charles J., Springfield, Mass. Shank-button. No. 1,143,457; June 15; Gaz. vol. 215; p. 908.
- Spillane, John J., San Francisco, Cal. Sanitary toilet-seat and means for retaining the same in position. No. 1,163,380; Dec. 7; Gaz. vol. 221; p. 226.
- Spillane, Thomas, New Bethlehem, Pa., and T. Brinning, Mount Vernon, Ohio. Apparatus for removing glass. No. 1,156,379; Oct. 12; Gaz. vol. 219; p. 392.
- Spinasse, Arthur E., Mount Vernon, Ohio. Cleaning pots. No. 1,157,597; Oct. 19; Gaz. vol. 219; p. 847.
- Spindler, George H. (See Thompson, Joseph F., assignor.)
- Spinelli, Francesco, Milan, Italy. Static frequency-changer. No. 1,157,730; Oct. 26; Gaz. vol. 219; p. 959.
- Spink, Alfred. (See Walker and Spink.)
- Spinks, Lydia M., Lanes Bottom, W. Va. Bottle-stopper. No. 1,146,036; July 13; Gaz. vol. 216; p. 392.
- Spinner, Michael. (See Prante, Frederick B., assignor.)
- Spinnerei & Weberei Steinen Actien-Gesellschaft. (See Koehlin, Albert G., assignor.)
- Spiradek, Ignacy, S. Kalisz, and W. Wilkosz, Chicago, Ill. Safety elevator device. No. 1,165,916; Dec. 28; Gaz. vol. 221; p. 1236.
- Spire, Alvin J. (See Wiard and Spire.)
- Spirella Company, The. (See Hyde, Elbert L., assignor.)
- Spirella Company, The. (See Kitchen, John F., assignor.) (Reissue.)
- Spirella Company, The. (See Wadsworth, Frank L. O., assignor.)
- Spiro, Abraham, New York, N. Y. Hand-bag. No. 1,152,346; Aug. 31; Gaz. vol. 217; p. 1621.
- Spiro, Charles, New York, N. Y. Platen-release mechanism. No. 1,151,059; Aug. 24; Gaz. vol. 217; p. 1132.
- Spiro, Charles, New York, N. Y. Stenographic type-writer. No. 1,160,665; Nov. 16; Gaz. vol. 220; p. 880.
- Spieteri, Joseph, Winnipeg, Manitoba, Canada. Dirigible airship. No. 1,134,241; Apr. 6; Gaz. vol. 213; p. 58.

Alphabetical list of patentees—Continued.

- Spitler, Bernard W., Dorchester, Mass. Puncture-plug for pneumatic tires. No. 1,139,140; May 11; Gaz. vol. 214; p. 538.
- Spitler, Elmer T., Pueblo, Colo. Music-leaf turner. No. 1,134,024; Mar. 30; Gaz. vol. 212; p. 1633.
- Spitler, Seth J., Greenville, Mich. Educational appliance. No. 1,138,807; May 11; Gaz. vol. 214; p. 420.
- Spitler, Wesley N., Chicago, Ill. Drawing-board attachment. No. 1,129,243; Feb. 23; Gaz. vol. 211; p. 1027.
- Spitz, Gustav, Brünn, Austria-Hungary. Burglar or fire alarm. No. 1,140,081; May 18; Gaz. vol. 214; p. 905.
- Spitz, Gustav, Brünn, Austria-Hungary, assignor to Goldschmidt Detinning Company, New York, N. Y. Obtaining metals, &c., soluble in alkalis. No. 1,129,431; Feb. 23; Gaz. vol. 211; p. 1093.
- Spitzer, Sumer. (See Signum, Myer, assignor.)
- Spitzglass, Jacob M., Chicago, Ill. Steam-meter. No. 1,127,692; Feb. 9; Gaz. vol. 211; p. 397.
- Spitzglass, Jacob M., Chicago, Ill. Calculating device. No. 1,145,042; July 6; Gaz. vol. 216; p. 24.
- Spitzler, Ernest, Boise, Idaho. Bait-receptacle. No. 1,140,625; May 25; Gaz. vol. 214; p. 1131.
- Spitzli, George H. (See Christ and Spitzli.)
- Spitzli, George H. (See Snyder, Augustus G., assignor.)
- Spivack, William S., *et al.* (See Friedman, Bernard, assignor.)
- Spivey, Thomas S., Cincinnati, Ohio, assignor to American Bankers Dust Proof Time Lock Company, New York, N. Y. Door and lock for safe-deposit boxes and the like. No. 1,155,625; Oct. 5; Gaz. vol. 219; p. 103.
- Spittdorf Electrical Co. (See Perrin, Frederic S., assignor.)
- Spittdorf Electrical Company. (See Cunningham, Richard H., assignor.)
- Spittdorf Electrical Company. (See Lang and Libby, assignors.)
- Spittdorf Electrical Company. (See Mason, Charles T., assignor.)
- Spittdorf Electrical Company. (See Richards, Julius H., assignor.)
- Spittdorf Electrical Company. (See Warren, Joseph A., assignor.)
- Spittdorf Electrical Company. (See Wilson, James M., assignor.)
- Spitsgerber, Henry P. (See Pate, William T. S., assignor.)
- Spoehr, William F., Milwaukee, Wis. Boring and facing bar. No. 1,131,871; Mar. 16; Gaz. vol. 212; p. 776.
- Spoelstra, Richard, *et al.* (See Bartley, George B., assignor.)
- Spoofford, Christopher S. (See Jonas and Spoofford.)
- Spoofford, Christopher S., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Collapsible carriage. No. 1,125,756; Jan. 19; Gaz. vol. 210; p. 982.
- Spoofford, Christopher S., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Collapsible carriage. No. 1,137,938; Feb. 9; Gaz. vol. 211; p. 488.
- Spoofford, George E., New Market, N. H., assignor to Draper Company, Hopedale, Mass. Slasher. No. 1,130,642; Mar. 2; Gaz. vol. 212; p. 279.
- Spohrer, George J., and W. E. Bean, Newark, N. J. Signaling device. No. 1,138,023; May 4; Gaz. vol. 214; p. 104.
- Spohrer, Gregory J., East Orange, N. J., assignor to Motor Compressor Company, Wilmington, Del. Starter for internal-combustion engines. No. 1,132,224; Mar. 16; Gaz. vol. 212; p. 904.
- Spokane Mail Equipment Company. (See O'Hara, William T., assignor.)
- Spokane Mail Equipment Company. (See Sander, Joseph P., assignor.)
- Sponenburg, Hiram H., Gurnee, assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,123,610; Jan. 5; Gaz. vol. 210; p. 141.
- Sponsel, Charles W., assignor to The Ajax Universal Joint Company, Hartford, Conn. Universal joint. No. 1,162,885; Dec. 7; Gaz. vol. 221; p. 52.
- Spradley, Thaddeus A., Cropwell, Ala. Door-lock. No. 1,130,034; Mar. 2; Gaz. vol. 212; p. 67.
- Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Regulator for combustion-engines. No. 1,143,328; June 15; Gaz. vol. 215; p. 863.
- Sprague, Almerin R., San Benito, Tex., assignor to L. A. Roy, Chicago, Ill. Heating device. No. 1,158,739; Nov. 2; Gaz. vol. 220; p. 114.
- Sprague, Arthur W., La Grange, Ill. Post-brace. No. 1,165,459; Dec. 28; Gaz. vol. 221; p. 1077.
- Sprague, Frank E., Nashua, N. H. Triple-hook collar-fastener. No. 1,140,541; May 25; Gaz. vol. 214; p. 1102.
- Sprague, Frank N., Sedgwick county, Colo. Variable-tension shock-absorbing and rebound spring for automobiles and other vehicles. No. 1,125,199; Jan. 19; Gaz. vol. 210; p. 783.
- Sprague, Frank N., Sedgwick, Colo. Auxiliary spring. No. 1,134,927; Apr. 6; Gaz. vol. 213; p. 300.
- Sprague, Frank N., Sedgwick, Colo. Combination bow and multiple cantaliver vehicle-spring. No. 1,165,634; Dec. 28; Gaz. vol. 221; p. 1139.
- Sprague, Goldwin S., Newton, Mass. Snow-shoe. No. 1,154,347; Sept. 21; Gaz. vol. 218; p. 770.
- Sprague, Horace M., Denver, Colo. Mouse-trap. No. 1,140,542; May 25; Gaz. vol. 214; p. 1102.
- Sprague, Horace M., Denver, Colo. Starting device for gas-operated automobile-engines. No. 1,151,130; Aug. 24; Gaz. vol. 217; p. 1156.
- Sprague, James H., Clarkston, Wash. Fruit-drier. No. 1,142,465; June 8; Gaz. vol. 215; p. 523.
- Sprague, William H. (See Murphy and Sprague.)
- Sprague, William P., San Francisco, Cal. Liquid-dispenser. No. 1,159,605; Nov. 9; Gaz. vol. 220; p. 450.
- Spranger, Anthony J., and B. H. Hourtienne, assignors to Spranger Rim and Wheel Company, Detroit, Mich. Demountable rim. No. 1,129,913; Mar. 2; Gaz. vol. 212; p. 27.
- Spranger Rim and Wheel Company. (See Spranger and Hourtienne, assignors.)
- Spray Engineering Company. (See Eneas, Aubrey G., assignor.)
- Sprecher, Peter W., Milwaukee, Wis. Electric-lighting fixture. No. 1,154,070; Sept. 21; Gaz. vol. 218; p. 674.
- Spreen, Charles C. (See Trumble, John T., assignor.)
- Spremulli, Leonardo, and A. Manuppelli, Ellsworth, assignors of one-third to A. M. Costa, Bentleyville, Pa. Garbage-can. No. 1,141,846; June 1; Gaz. vol. 215; p. 264.
- Sprenger, Henry A., assignor to J. Sprenger and Sons, Detroit, Mich. Boiler. No. 1,164,884; Dec. 21; Gaz. vol. 221; p. 837.
- Sprenger, Richard, Hennigsdorf, near Berlin, Germany, assignor to General Electric Company. Electric cooking apparatus. No. 1,157,731; Oct. 26; Gaz. vol. 219; p. 960.
- Sprenger and Sons, Joseph. (See Sprenger, Henry A., assignor.)
- Sprengstoff A.-G. Carbonit. (See Hartmann, Carl, assignor.)
- Sprengstoff A.-G. Carbonit. (See Machenbach, Richard, assignor.)
- Sprengstoff Actien Gesellschaft Carbonit. (See Jahn, Carl R., assignor.)
- Sprinc, John, Irvington, N. Y. Collar. No. 1,159,118; Nov. 2; Gaz. vol. 220; p. 244.
- Spring, Daniel T. and S. E., and W. N. Bandl, Wheeling, W. Va. Apparatus for handling metal bars in roller-mills. No. 1,164,423; Dec. 14; Gaz. vol. 221; p. 635.
- Spring Governor Company. (See McKnight, John A., assignor.)
- Spring, Samuel E. (See Spring and Bandl.)
- Springer, Aaron M., Portland, Oreg., assignor, by mesne assignments, to Oregon Woodenware Manufacturing Company. Ironing-table. No. 1,132,528; Mar. 16; Gaz. vol. 212; p. 1015.
- Springer, Aaron M. and R. J., Portland, Oreg. Clothes-drying rack. No. 1,159,727; Nov. 9; Gaz. vol. 220; p. 494.
- Springer, Benjamin F., *et al.* (See Gage, Will V., assignor.)
- Springer, Charles, Albany, N. Y. Welding-torch. No. 1,159,119; Nov. 2; Gaz. vol. 220; p. 244.
- Springer, Rebecca J. (See Springer, Aaron M. and R. J.)
- Springer, William N., Peoria, Ill., assignor to Avery Company. Excavator-bucket. No. 1,136,844; Apr. 20; Gaz. vol. 213; p. 1061.
- Springer, Winton L., Chicago, Ill., assignor to American Type Founders Company, Jersey City, N. J. Divider for forms of tabular quads. No. 1,140,775; May 25; Gaz. vol. 214; p. 1179.
- Springfield Auto Deflector Company, The. (See Wheeler, Edwin O., assignor.)
- Springfield Metal Furring Company. (See Johnson, James B., assignor.)
- Springman, Charles T., assignor to Springman Paper Products Company, Detroit, Mich. Easel. No. 1,132,628; Mar. 23; Gaz. vol. 212; p. 1100.
- Springman, Charles T., assignor to Springman Paper Products Company, Detroit, Mich. Easel. No. 1,132,629; Mar. 23; Gaz. vol. 212; p. 1101.
- Springman, Edward, Ansley, Nebr. Float-operated stock-watering apparatus. No. 1,161,745; Nov. 23; Gaz. vol. 220; p. 1305.
- Springman Paper Products Company. (See Springman, Charles T., assignor.)
- Springstead, Abram B., assignor of one-half to C. A. Gifford, Kalamazoo, Mich. Door-hanger means. No. 1,139,734; May 18; Gaz. vol. 214; p. 781.
- Springstein, Luther W., assignor of one-half to A. E. Benedict, Binghamton, N. Y. Mail-catcher. No. 1,130,035; Mar. 2; Gaz. vol. 212; p. 67.
- Springthorpe, Isaac, Philadelphia, Pa. Lace-knitting machine. No. 1,165,294; Dec. 21; Gaz. vol. 221; p. 980.
- Sprinkman, Martin, Los Angeles, Cal. Rail-support. No. 1,133,586; Mar. 30; Gaz. vol. 212; p. 1482.
- Sprong, Severn D., Brooklyn, assignor of one-third to F. W. Smith and one-third to W. E. McCoy, New York, N. Y. Device for locating faults in line-conductor insulation. No. 1,130,036; Mar. 2; Gaz. vol. 212; p. 68.
- Sprong, Severn D. and W. E. McCoy, New York, N. Y. Means for preventing current leakage in electric cables. No. 1,165,140; Dec. 21; Gaz. vol. 221; p. 929.
- Sprong, Severn D. and W. E. McCoy, New York, N. Y. Means for preventing current leakage in electric cables. No. 1,165,141; Dec. 21; Gaz. vol. 221; p. 929.

- Sprong, William J., Los Angeles, Cal. Child-carrier. No. 1,162,662; Nov. 30; Gaz. vol. 220; p. 1666.
- Spross, Frederick B., Churchville, N. Y. Pulverizer. No. 1,149,414; Aug. 10; Gaz. vol. 217; p. 434.
- Spross, Hubert M., Arlington, assignor to The Delaval Separator Company, New York, N. Y. Liquid-treating apparatus. No. 1,141,282; June 1; Gaz. vol. 215; p. 68.
- Sproull, William J., Saginaw, Mich. Air-gun. No. 1,152,447; Sept. 7; Gaz. vol. 218; p. 23.
- Sprouse, James L., assignor of one-half to N. L. Hundley, Comanche, Okla. Lever. No. 1,165,211; Dec. 21; Gaz. vol. 221; p. 953.
- Sprout, Waldron & Company. (See Snyder, Simon, assignor.)
- Sprout, Waldron & Company. (See Sorensen, John S., assignor.)
- Sprolws, Alexander H., et al. (See Rundquist, William, assignor.)
- Spruks, Stephen S. (See Witty, George, assignor.)
- Spuhler, Frank J., Tucumcari, N. Mex. Bracket. No. 1,149,963; Aug. 10; Gaz. vol. 217; p. 632.
- Spuhr, John B., Denver, Colo. Apparatus for transplanting trees. No. 1,139,735; May 18; Gaz. vol. 214; p. 781.
- Spurgeon, Harry A., A. T. Hunt, and W. G. Baker, Indianapolis, Ind. Rule-holding slug-form for linotype-machines and producing same. No. 1,139,593; May 18; Gaz. vol. 214; p. 731.
- Spurgeon, Harry A., A. T. Hunt, and W. G. Baker, Indianapolis, Ind. Rule for type-slugs. No. 1,139,594; May 18; Gaz. vol. 214; p. 731.
- Spurgeon, Jesse, Ottumwa, Iowa. Calculating-machine. No. 1,160,337; Nov. 16; Gaz. vol. 220; p. 762.
- Spurr, Foster M., Boston, Mass. Envelop holder and feeder. No. 1,135,067; Apr. 13; Gaz. vol. 213; p. 396.
- Spurr, Foster M., Boston, Mass. Delivery mechanism. No. 1,135,068; Apr. 13; Gaz. vol. 213; p. 396.
- Spurrier, Thomas H., Washington, D. C. Handle for carrying packages. No. 1,137,548; Apr. 27; Gaz. vol. 213; p. 1350.
- Spurway, George A., assignor to Steele and Johnson Manufacturing Company, Waterbury, Conn. Electric-socket cover and shade-holder. No. 1,135,069; Apr. 13; Gaz. vol. 213; p. 397.
- Spychalski, Jakob, South Bethlehem, Pa. Ship-table. No. 1,125,757; Jan. 19; Gaz. vol. 210; p. 982.
- Squire, George, Halensee, Germany, assignor to General Electric Company. Liquid rheostat. No. 1,161,746; Nov. 23; Gaz. vol. 220; p. 1305.
- Squire, William M., Red Cloud, Nebr. Machine for gathering and bunching hay and grain. No. 1,134,928; Apr. 6; Gaz. vol. 213; p. 301.
- Squire, Willis C., Chicago, Ill. Car-heating system. No. 1,129,048; Feb. 16; Gaz. vol. 211; p. 925.
- Squyars, Alexander E., and W. T. Hefner, Statesboro, Ga., assignors, by mesne assignments, to W. T. Hefner. Mop. No. 1,148,869; Aug. 3; Gaz. vol. 217; p. 137.
- St. Albans Foundry and Implement Company. (See Arnholm, Charles A., assignor.)
- St. Clair, Charles E., et al. (See Miller, Harry, assignor.)
- St. Clair, Jerry W., Johnstown, Pa. Railway-tie. No. 1,144,441; June 29; Gaz. vol. 215; p. 1302.
- St. Clair Manufacturing Company, The. (See Franz, Louis F., assignor.)
- St. Clair, Moffat, Galt, Ontario, Canada. Internal-combustion engine. No. 1,145,814; July 6; Gaz. vol. 216; p. 293.
- St. John, George, Hempstead, N. Y. Weather-strip. No. 1,145,089; July 6; Gaz. vol. 216; p. 42.
- St. John, Howard M., Passaic, N. J. Safety appliance for steam-engines. No. 1,154,549; Sept. 21; Gaz. vol. 218; p. 838.
- St. John, Orestes E., and F. Norton, Rock Creek, Ohio. Machine for making basket-blanks. No. 1,161,749; Nov. 23; Gaz. vol. 220; p. 1306.
- St. John, Watson R. (See Hardenbrook, Leon G., assignor.)
- St. Louis Bed and Manufacturing Company. (See Redding, Roy F., assignor.)
- St. Louis Briquette Machine Company. (See Komarek, Gustav, assignor.)
- St. Louis Car Company. (See Miller, Walter S., assignor.)
- St. Louis Cash Register Company. (See Patten, Elmer E., assignor.)
- St. Louis Chilled Bearing Company. (See Friese and Gilbert, assignors.)
- St. Louis Coffin Company. (See Benzing, Alfred B., assignor.)
- St. Louis, Frank, Windsor, Ontario, Canada. Floor-mat. No. 1,144,442; June 29; Gaz. vol. 215; p. 1303.
- St. Louis Malleable Castings Company. (See Ette, Charles G., assignor.)
- St. Louis Pneumatic Valve Company. (See Newsom, Joseph N., assignor.)
- St. Onge, Joseph S. (See Beaudry, Deunbort, assignor.)
- St. Paul Cornet Company. (See Wessel, Karl, assignor.)
- St. Pierre, Joseph O., Boston, Mass. Lifting-jack. No. 1,131,285; Mar. 9; Gaz. vol. 212; p. 534.
- St. Pierre, Joseph O., Boston, Mass. Lifting-jack. No. 1,131,286; Mar. 9; Gaz. vol. 212; p. 535.
- St. Yves, Henri, New York, N. Y. Motor-cycle. No. 1,164,122; Dec. 14; Gaz. vol. 221; p. 531.
- Staab, Andrew A., New York, N. Y. Shampoo-spray. No. 1,146,662; July 13; Gaz. vol. 216; p. 611.
- Staab, Peter J., Peoria, Ill. Corn picking and husking machine. No. 1,131,800; Mar. 16; Gaz. vol. 212; p. 751.
- Stadeker, Jerome B., Louisville, Ky. Suit-hanger. No. 1,130,643; Mar. 2; Gaz. vol. 212; p. 280.
- Staats, Harry T., Townsend, Del. Ventilating shade-roller. No. 1,157,261; Oct. 19; Gaz. vol. 219; p. 733.
- Staats, John P., Wilmington, Del. Relief-damper for locomotives. No. 1,148,342; July 27; Gaz. vol. 216; p. 1249.
- Stabel, Joseph M., assignor to Domestic Appliances Company, Rochester, N. Y. Steam-generator. No. 1,127,536; Feb. 9; Gaz. vol. 211; p. 345.
- Stabel, Joseph M., assignor to Domestic Appliances Company, Rochester, N. Y. Cleaning-tool. No. 1,139,736; May 18; Gaz. vol. 214; p. 782.
- Stabler, Reuben A., Muncy, Pa. Engine-starter. No. 1,156,718; Oct. 12; Gaz. vol. 219; p. 510.
- Stacey, Andrew J. (See Paul, Edward B., assignor.)
- Stacey, Edward J., El Centro, Cal. Spring. No. 1,129,611; Feb. 23; Gaz. vol. 211; p. 1157.
- Stacey, Frank, Birmingham, England. Adjustable scraper for roller-mills. No. 1,139,236; May 11; Gaz. vol. 214; p. 570.
- Stachel, Arthur E., Chicago, Ill. Cylinder-cock. No. 1,126,900; Feb. 2; Gaz. vol. 211; p. 82.
- Stack, Edward P., Pittsburgh, Pa. Coupling-link for engines. No. 1,124,966; Jan. 12; Gaz. vol. 210; p. 664.
- Stack, Elmer S., Somerville, Mass. Pipe-threader. No. 1,147,456; July 20; Gaz. vol. 216; p. 909.
- Stack, Elmer S., Somerville, assignor, by mesne assignments, to Stack Heater Company, Boston, Mass. Water-heater. No. 1,125,758; Jan. 19; Gaz. vol. 210; p. 983.
- Stack, George E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,126,311; Jan. 26; Gaz. vol. 210; p. 1214.
- Stack Heater Company. (See Stack, Elmer S., assignor.)
- Stack, William F., Knoxville, Tenn. Illuminated sign. No. 1,126,901; Feb. 2; Gaz. vol. 211; p. 83.
- Stackhouse, George A., Oakland, assignor to Pacific Spring Bed Company, Berkeley, Cal. Davenport. No. 1,165,030; Dec. 21; Gaz. vol. 221; p. 888.
- Stackpole, Francis M., Worthington, W. Va. Antispreading device for rails. No. 1,129,750; Feb. 23; Gaz. vol. 211; p. 1201.
- Stackpole, Joseph L., Boston, assignor to J. W. Davies, Reading, Mass. Emulsifier. No. 1,152,127; Aug. 31; Gaz. vol. 217; p. 1546.
- Stacy, Frederick A. (See Stocker and Stacy.)
- Stacy, James N. (See Gaulocher and Stacy.)
- Stacy, John W. (See Spear, Howard A., assignor.)
- Stacy, Mack. (See Duke, Joseph A., assignor.)
- Stadelman, George M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve-stem protective device. No. 1,141,219; June 1; Gaz. vol. 215; p. 46.
- Stadtherr, Paul J., Melrose, Minn. Window-lock. No. 1,144,007; June 22; Gaz. vol. 215; p. 1121.
- Staebler, William T. (See Burleson and Staebler.)
- Staehlin, Otto, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Mordant azo dyestuffs. No. 1,155,765; Oct. 5; Gaz. vol. 219; p. 152.
- Staff, Charles, Royal Oak, Mich. Carburlizing material. No. 1,131,801; Mar. 16; Gaz. vol. 212; p. 752.
- Staffanson, Ole J., Kensington, Minn. Harness. No. 1,125,200; Jan. 19; Gaz. vol. 210; p. 783.
- Stafford, Albert B., Troy, N. Y. Collar. No. 1,137,241; Apr. 27; Gaz. vol. 213; p. 1242.
- Stafford Auto Lamp & Number Company. (See Stafford, Fredrick S., assignor.)
- Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburgh, Pa. Cap for flexible stay-bolts. No. 1,153,458; Sept. 14; Gaz. vol. 218; p. 426.
- Stafford, Beverley F., Tyler, Tex. Clasp. No. 1,124,069; Jan. 5; Gaz. vol. 210; p. 296.
- Stafford, Charles, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Embroidering attachment. No. 1,147,457; July 20; Gaz. vol. 216; p. 910.
- Stafford, Charles, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Adjustable hemmer. No. 1,153,459; Sept. 14; Gaz. vol. 218; p. 426.
- Stafford Company, The. (See Jackson, Simeon S., assignor.)
- Stafford, Fredrick S., assignor to Stafford Auto Lamp & Number Company, Chicago, Ill. Plate-retaining device. No. 1,135,144; Apr. 13; Gaz. vol. 213; p. 423.
- Stafford, Hal R. (See Ball and Stafford.)
- Stafford, Hal R., Plainfield, N. J., assignor to Economy Devices Corporation, New York, N. Y. Locomotive-truck. No. 1,163,623; Dec. 7; Gaz. vol. 221; p. 311.
- Stafford, Hal R., Plainfield, N. J., assignor to Economy Devices Corporation, New York, N. Y. Steam-engine valve-reversing gear. No. 1,165,811; Dec. 28; Gaz. vol. 221; p. 1260.
- Stafford, Henry L., Long Beach, Cal. Food product and preparing the same. No. 1,143,087; June 15; Gaz. vol. 215; p. 778.
- Stafford, Henry L., Long Beach, Cal. Pressure cooking-machine. No. 1,159,728; Nov. 9; Gaz. vol. 220; p. 495.

Alphabetical list of patentees—Continued.

- Stafford, Roland R., Minier, Ill. Harness-hanger. No. 1,136,286; Apr. 20; Gaz. vol. 213; p. 862.
- Stafford, William J., Quincy, Ill. Stove and range. No. 1,160,780; Nov. 16; Gaz. vol. 220; p. 921.
- Stafford, William R., et al. (See Cox, Thomas E., assignor.)
- Stage, Erwin, Waubay, S. D. Reinforcing-nut-bar crank-shaft casing. No. 1,146,533; July 13; Gaz. vol. 216; p. 567.
- Staggers, William F. Jr., Mannington, W. Va. Pipe-coupling. No. 1,163,277; Dec. 7; Gaz. vol. 221; p. 189.
- Stahelin, Albert J., Redford, Mich. Greenhouse. No. 1,142,539; June 8; Gaz. vol. 215; p. 548.
- Stahl, August, assignor to William Tonk & Bro., Inc., New York, N. Y. Key-locking means for player-pianos. No. 1,133,674; Mar. 30; Gaz. vol. 212; p. 1515.
- Stahl, Carl H. (See Ryden and Stahl.)
- Stahl, Charles H., assignor to The Pfeghar Hardware Specialty Co., New Haven, Conn. Lock. No. 1,137,363; Apr. 27; Gaz. vol. 213; p. 1286.
- Stahl, George W. (See Engel and Anderson, assignors.)
- Stahl, Karl E., assignor of fifty and one-third one-hundredths to F. J. Bon, Cheyenne, Wyo. Lawn-mower sharpener. No. 1,129,133; Feb. 23; Gaz. vol. 211; p. 990.
- Stahl, Loren, Carey, Ohio. Insulator. No. 1,163,114; Dec. 7; Gaz. vol. 221; p. 132.
- Stahl, Oliver E., Pittsburgh, Pa. Portable support for electric lamps. No. 1,141,152; June 1; Gaz. vol. 215; p. 21.
- Stahl, Sidney S., Connellsville, Pa. Pressure-controlled electric switch for motor operated pumps. No. 1,141,847; June 1; Gaz. vol. 215; p. 264.
- Stable, Carl W. (See Stable, John A. and C. W.)
- Stable, Carl W., Everett, assignor to Boston Auto Gage Company, Boston, Mass. Fluid-gage. No. 1,141,499; June 1; Gaz. vol. 215; p. 147.
- Stable, Carl W., Everett, assignor to Boston Auto Gage Company, Boston, Mass. Fluid-gage. No. 1,141,500; June 1; Gaz. vol. 215; p. 148.
- Stable, John A., Boston, Mass., assignor to Stable Mechanical Tire Company, Limited, Kittery, Me. Resilient wheel. No. 1,126,115; Jan. 26; Gaz. vol. 210; p. 1142.
- Stable, John A., assignor to Stable Mechanical Tire Company, Ltd., Boston, Mass. Resilient wheel. No. 1,165,726; Dec. 28; Gaz. vol. 221; p. 1171.
- Stable, John A., Boston, and C. W. Stable, Everett, Mass., assignors, by mesne assignments, to Stable Mechanical Tire Company, Limited, Resilient wheel. No. 1,124,349; Jan. 12; Gaz. vol. 210; p. 441.
- Stable, John A., Boston, and C. W. Stable, Everett, Mass., assignors, by mesne assignments, to Stable Mechanical Tire Company, Limited, Resilient wheel. No. 1,124,350; Jan. 12; Gaz. vol. 210; p. 444.
- Stable Mechanical Tire Company. (See Stable, John A. and C. W. assignors.)
- Stahlhut, August F., (See Gray and Stahlhut.)
- Ståhlbacke, Karl A., Österås, Sweden. Coupling for shafts. No. 1,165,031; Dec. 21; Gaz. vol. 221; p. 888.
- Stahly, Christian J., Goshen, Ind. Silo. No. 1,137,676; Apr. 27; Gaz. vol. 213; p. 1391.
- Stahly, Christian J., Goshen, Ind. Silo. No. 1,160,006; Nov. 9; Gaz. vol. 220; p. 594.
- Stalb, Albert. (See Abendschein and Stalb.)
- Stalb, Clifford J. (See Hinkley and Stalb.)
- Staier, Henry, New York, N. Y. Match-head or similar composition. No. 1,144,076; June 22; Gaz. vol. 215; p. 1146.
- Staier, Henry, New York, N. Y. Match-head or similar composition. No. 1,144,077; June 22; Gaz. vol. 215; p. 1146.
- Staigt, Mark W., New York, N. Y. Ignition device. No. 1,163,479; Dec. 7; Gaz. vol. 221; p. 260.
- Stains, George M. (See Mart and Stains.)
- Stalec, Paul J., Seattle, Wash. Hydraulic irrigating-machine. No. 1,156,024; Oct. 5; Gaz. vol. 219; p. 242.
- Staley, George W., Johnstown, Pa. Ejecting mechanism for wire-scrap-reeling machines. No. 1,124,070; Jan. 5; Gaz. vol. 210; p. 296.
- Staley, Harrison L., Martinsville, Ind. Motion-augmenting pendulum-gearing. No. 1,153,268; Sept. 14; Gaz. vol. 218; p. 357.
- Staley, Harrison L., Martinsville, Ind. Washing-machine agitator. No. 1,155,107; Sept. 28; Gaz. vol. 218; p. 1059.
- Staley, Harrison L., Martinsville, Ind., and W. R. Simmons, assignors to Wilts Veneer Company, Richmond, Va. Composite veneer and making same. No. 1,154,138; Sept. 21; Gaz. vol. 218; p. 697.
- Staley, Harrison L., Martinsville, Ind., and W. R. Simmons, assignors to Wilts Veneer Company, Richmond, Va. Shipping-box. No. 1,162,524; Nov. 30; Gaz. vol. 220; p. 1623.
- Staley, Thomas F., assignor of one-fourth to J. W. Wiggins and one-fourth to J. A. Henderson, Tallula, Ill. Measuring-faucet. No. 1,164,233; Dec. 14; Gaz. vol. 221; p. 567.
- Staley, William P., Sedalia, Mo. Lubricant-atomizer. No. 1,128,381; Feb. 16; Gaz. vol. 211; p. 689.
- Stalker, Frederick W. (See Norwood and Stalker.)
- Stallworth, Young S., Slidell, La. Spittoon-handle. No. 1,159,120; Nov. 2; Gaz. vol. 220; p. 245.
- Stamets, Alton R., Gloucester City, N. J. Adjustable deckle for wet-cylinder paper-machines. No. 1,161,747; Nov. 23; Gaz. vol. 220; p. 1306.
- Stamford Gas Stove Company. (See Collins, Warren, assignor.)
- Stamirowski, Stefan, assignor of one-half to T. J. Fruin, New York, N. Y. Wrapping-paper cutter. No. 1,135,859; Apr. 13; Gaz. vol. 213; p. 672.
- Stamler, Alexander. (See Lohmiller, Claus, and Stamler.)
- Stamm, Hans, St. Gallen, Switzerland. Straight-pull lock for military rifles. No. 1,124,071; Jan. 5; Gaz. vol. 210; p. 296.
- Stamm, Hans, St. Gallen, Switzerland. Self-loading firearm. No. 1,132,044; Mar. 16; Gaz. vol. 212; p. 838.
- Stamm, Hans, St. Gallen, assignor to Firm of A. Saurer, Arbon, Switzerland. Safety mechanism for straight-pull breech-actions of military rifles. No. 1,155,326; Sept. 28; Gaz. vol. 218; p. 1130.
- Stamm, Henry C., Mechanicsburg, Pa. Washing-machine. No. 1,133,890; Mar. 30; Gaz. vol. 212; p. 1591.
- Stampfax Company. (See Palmer, Lionel G. H., assignor.)
- Stamps, Nathaniel C., Los Angeles, Cal. Carbureter. No. 1,140,721; May 25; Gaz. vol. 214; p. 1160.
- Stamps, Nathaniel C., Los Angeles, Cal. Carbureter. No. 1,140,722; May 25; Gaz. vol. 214; p. 1161.
- Stanbon, Charles P., Saugus, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Cementing-machine. No. 1,138,903; May 11; Gaz. vol. 214; p. 453.
- Stancic, Ivan, Davenport, Iowa. Folding box. No. 1,164,668; Dec. 21; Gaz. vol. 221; p. 762.
- Stancliff, Edwin, New York, N. Y. Vehicle-wheel. No. 1,136,377; Apr. 20; Gaz. vol. 213; p. 895.
- Standcliffe, Cecil W., assignor of one-fourth to W. H. Leckie and one-fourth to R. J. Leckie, Vancouver, British Columbia, Canada. Resetting signaling device. No. 1,147,053; July 20; Gaz. vol. 216; p. 768.
- Standard Automatic Machine Company. (See Coates, Frederick, assignor.)
- Standard Baking Company. (See Cargill, Robert G., assignor.)
- Standard Car Truck Company. (See Barber, John C., assignor.)
- Standard Car Truck Company. (See Barber, Lee W., assignor.)
- Standard Car Truck Company. (See Barber and Webb, assignors.)
- Standard Car Truck Company. (See Webb, Edwin W., assignor.)
- Standard Chemical Company. (See Vogt, Louis F., assignor.)
- Standard Company. (See Bailey, Archer N., assignor.)
- Standard Company, The. (See Chase and Graham, assignors.)
- Standard Coupler Company. (See Sanvage, William H., assignor.)
- Standard Dry Kiln Company, The. (See Whittenburg, Elbert E., assignor.)
- Standard Fender Company, The. (See Perez, Waldo F., assignor.)
- Standard Gramophone Appliance Company. (See Kirkman, Thomas W., assignor.)
- Standard Heat and Ventilation Company. (See Dixon, Robert M., assignor.)
- Standard Heat and Ventilation Company. (See Sofio, Edward C., assignor.)
- Standard Knitting Mills Company. (See Bateson, Charles E. W., assignor.)
- Standard Knitting Mills Company. (See Marlow, William, assignor.)
- Standard Machine Company. (See Houseman, Harold E., assignor.)
- Standard Machine Company. (See Houseman, Harry A., assignor.)
- Standard Machine Company. (See Houseman, Harry A. and H. E., assignors.)
- Standard Mail Order Company. (See Rubel, Jacob, assignor.)
- Standard Motor Truck Company. (See Christianson, Andrew, assignor.)
- Standard Oil Company. (See Black, John C., assignor.)
- Standard Oil Company. (See Burton, William M., assignor.)
- Standard Oil Company. (See Clark, Edgar M., assignor.)
- Standard Oil Company. (See Mann and Chappell, assignors.)
- Standard Oil Company. (See Moore, John B., assignor.)
- Standard Oil Company. (See Peavey, William S., assignor.)
- Standard Oil Company of California. (See Quinn, John L., assignor.)
- Standard Oil Company of New York. (See Gause, Frederick T., assignor.)
- Standard Oil Company of New York. (See Smart, Henry C., assignor.)
- Standard Optical Company, The. (See Bader and Howland, assignors.)
- Standard Optical Company, The. (See Boucher, Philius J., assignor.)
- Standard Optical Company, The. (See Essick, Walter, assignor.)

- Standard Optical Company, The. (See Howland, Chauncy W., assignor.)
- Standard Phonotype Company. (See Edwards and Russell, assignors.)
- Standard Plunger Elevator Company. (See Dunn, Edward L., assignor.)
- Standard Plunger Elevator Company. (See Jansson, Karl E. O., assignor.)
- Standard Pneumatic Action Co. (See Le Cato, John A., assignor.)
- Standard Pneumatic Action Company. (See Fiala, Joseph, assignor.)
- Standard Pressed Steel Co. (See Gade, Harald F., assignor.)
- Standard Register Company, The. (See Schirmer, Theodore F., assignor.)
- Standard Roller Bearing Company. (See Barnes, Herbert C., assignor.)
- Standard Roller Bearing Company. (See Ringland and Schoenfuss, assignors.)
- Standard Sanitary Manufacturing Company. (See Bale, Damon, assignor.)
- Standard Sanitary Manufacturing Company. (See Jackson, William W., assignor.)
- Standard Sanitary Manufacturing Company, The. (See Muckenbirt, Charles H., assignor.)
- Standard Sanitary Manufacturing Company. (See Osborn, William H., assignor.)
- Standard Separator Company. (See Salisbury, Charles K., assignor.)
- Standard Sewing Machine Company, The. (See Kelso, Ralph S., assignor.)
- Standard Sewing Machine Company, The. (See Manning, Edward E., assignor.)
- Standard Silica Brick Machinery Company. (See Avram, Moïse H., assignor.)
- Standard Steel Car Company. (See Anderson, Harry T., assignor.)
- Standard Steel Car Company. (See Christianson, Andrew, assignor.)
- Standard Steel Wheel and Tire Armor Company. (See Livingston, Andrew W., assignor.)
- Standard Stoker Company. (See Williams, David T., assignor.)
- Standard Thermometer Company. (See Adair, Thomas D., assignor.)
- Standard Thermometer Company. (See Spear, George E., assignor.)
- Standard Tire and Rubber Company. (See Powell, Peter, assignor.)
- Standard Underground Cable Company. (See Barbour, Charles, assignor.)
- Standard Underground Cable Company. (See Davis, Charles W., assignor.)
- Standard Varnish Works. (See Beausejour, Reme A., assignor.)
- Standard Vending Machine Company. (See Gomber, George W., assignor.)
- Standard Welding Company, The. (See Bryant, Richard S., assignor.)
- Standau, Albert, Sr., Terre Haute, Ind. Life-saving apparatus. No. 1,129,751; Feb. 23; Gaz. vol. 211; p. 1201.
- Standeford, Archie D., Kansas City, Mo. Safety apparatus for moving-picture machines. No. 1,126,902; Feb. 2; Gaz. vol. 211; p. 83.
- Standewick, Reginald G., Lynn, Mass., assignor to General Electric Company. Vapor electric device. No. 1,128,070; Feb. 9; Gaz. vol. 211; p. 534.
- Standewick, Reginald G., Lynn, Mass., assignor to General Electric Company. Headlight. No. 1,157,966; Oct. 26; Gaz. vol. 219; p. 1042.
- Standfest, George, assignor of one-half to J. Nonn, Rochester, N. Y. Lock for car-doors. No. 1,133,332; Mar. 30; Gaz. vol. 212; p. 1391.
- Standish, Granville S. (See McCallion, James H., assignor.)
- Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making blanks for heels. No. 1,126,903; Feb. 2; Gaz. vol. 211; p. 84.
- Standley, Meredith G., Cincinnati, Ohio. Hand-stamp. No. 1,153,351; Sept. 14; Gaz. vol. 218; p. 387.
- Standridge, Clarence W., Asher, Okla. Lamp-burner. No. 1,148,413; July 27; Gaz. vol. 216; p. 1273.
- Stanek, Lucian. (See Hesse and Stanek.)
- Stanfield, Eddie F., Hoquiam, Wash. Cattle-stanchion. No. 1,153,008; Oct. 26; Gaz. vol. 219; p. 1055.
- Stanfield, Joab and S. O., Orange, Cal. Lantern-holder. No. 1,154,071; Sept. 21; Gaz. vol. 218; p. 675.
- Stanfield, Stephen O. (See Stanfield, Joab and S. O.)
- Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,129,816; Feb. 23; Gaz. vol. 211; p. 1223.
- Stanford, Arthur L., Chicago, Ill. Rail-anchor. No. 1,139,381; May 11; Gaz. vol. 214; p. 620.
- Stange, Arthur E. (See Lockard, William A., assignor.)
- Stangl, Michael L., Salt Lake City, Utah. Bottling-machine attachment. No. 1,158,740; Nov. 2; Gaz. vol. 220; p. 115.
- Stanicci, Riccardo, San Francisco, Cal. Non-slipping horseshoe. No. 1,129,244; Feb. 23; Gaz. vol. 211; p. 1027.
- Stankey, Oscar, East St. Louis, Ill. Combination stationery device. No. 1,154,736; Sept. 28; Gaz. vol. 218; p. 931.
- Stankus, John, Portage, Pa. Armored motor-car. No. 1,155,450; Oct. 5; Gaz. vol. 219; p. 43.
- Stanley, Arthur M., Lynn, Mass., assignor to General Electric Company. Electric-resistance welding. No. 1,138,154; May 4; Gaz. vol. 214; p. 152.
- Stanley, Enos, Watertown, S. D. Smoke-consuming furnace. No. 1,136,287; Apr. 20; Gaz. vol. 213; p. 863.
- Stanley, Francis E., Newton, Mass. Water-level indicator. No. 1,123,611; Jan. 5; Gaz. vol. 210; p. 141.
- Stanley, Frederick E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Connecting-rod. No. 1,134,973; Apr. 6; Gaz. vol. 213; p. 317.
- Stanley, Frederick E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Tack-fastened button. No. 1,142,376; June 8; Gaz. vol. 215; p. 490.
- Stanley, John, and J. C. Porter, Seattle, Wash.; said Porter assignor to said Stanley. Amusement device. No. 1,165,552; Dec. 28; Gaz. vol. 221; p. 1108.
- Stanley, Joseph, Geary, Okla. Dry and wet ore-separator. No. 1,149,302; Aug. 10; Gaz. vol. 217; p. 394.
- Stanley, Loren W., Gloucester City, N. J. Broom. No. 1,140,543; May 25; Gaz. vol. 214; p. 1103.
- Stanley, Nathan M., Dayton, Ohio. Making composite metallic and non-metallic stock. No. 1,128,071; Feb. 9; Gaz. vol. 211; p. 534.
- Stanley, Ray J., Cazenovia, N. Y. Window-screen. No. 1,140,413; May 25; Gaz. vol. 214; p. 1055.
- Stanley, Richard E., assignor of one-third to J. N. Barnett and one-third to C. Bitzer, Jr., Pittsburgh, Pa. Bowling-pin. No. 1,144,078; June 22; Gaz. vol. 215; p. 1146.
- Stanley Rule & Level Co. (See Bodmer, Christian, assignor.)
- Stanley Rule & Level Company, The. (See Nelstadt, Henry, assignor.)
- Stanley Rule & Level Company, The. (See Schade, Edmund A., assignor.)
- Stanley, Theodore D., Detroit, Mich. Steering-gear. No. 1,142,377; June 8; Gaz. vol. 215; p. 490.
- Stanley, William, Great Barrington, Mass., assignor to General Electric Company. Electric heat-storage system. No. 1,161,748; Nov. 23; Gaz. vol. 220; p. 1306.
- Stanley Works, The. (See Hart, Walter H., assignor.)
- Stanley Works, The. (See Parsons, Stuart W., assignor.)
- Stansberry, William L., Ames, Iowa. Collar-pad. No. 1,146,534; July 13; Gaz. vol. 216; p. 568.
- Stansbury, Paul W., Cincinnati, assignor to The Chatfield Manufacturing Company, Carthage, Ohio. Cleat. No. 1,148,260; July 27; Gaz. vol. 216; p. 1219.
- Stansell, Jesse M., and C. D. Oland, Centralia, Ill. Electropneumatic apparatus. No. 1,164,134; Dec. 14; Gaz. vol. 221; p. 536.
- Stansell, Jesse M., and C. D. Oland, assignors to Electro Pneumatic Skid Company, Centralia, Ill. Automatic railway-skid. No. 1,148,870; Aug. 3; Gaz. vol. 217; p. 137.
- Stansell, Walker, Memphis, Tenn. Excavator. No. 1,137,171; Apr. 27; Gaz. vol. 213; p. 1215.
- Stanton, Charles H. (See Jones, Erastus T., assignor.)
- Stanton, Gay A., Jackson, Mich. Spring suspension for vehicles. No. 1,162,414; Nov. 30; Gaz. vol. 220; p. 1584.
- Stanton, Grant, *et al.* (See Hadcock, Carl, assignor.)
- Stanton, Hugh C., Dillon, S. C. Combined planter and fertilizer-distributor. No. 1,132,401; Mar. 16; Gaz. vol. 212; p. 969.
- Stanton, Hugh C., Dillon, S. C. Plow. No. 1,136,448; Apr. 20; Gaz. vol. 213; p. 921.
- Stanton, Le Roy W., Cleveland, Ohio, assignor of one-half to F. W. Dunbar, Chicago, Ill. Telephone system. No. 1,156,253; Oct. 12; Gaz. vol. 219; p. 346.
- Stanton, Thomas F., Denton, Kans. Handle-bar grip. No. 1,165,142; Dec. 21; Gaz. vol. 221; p. 930.
- Stanton, William H., and J. G. Vail, Chester, Pa., assignors to Philadelphia Quartz Company. Dissolving sodium silicate. No. 1,138,595; May 4; Gaz. vol. 214; p. 304.
- Stanwood, Frank H., Arlington, Mass. Step for automobiles and other vehicles. No. 1,144,439; June 29; Gaz. vol. 215; p. 1302.
- Staples, Albert F. (See Hick and Staples.)
- Staples, Augustine E., Chester, Vt. Compound weeding and scraping implement. No. 1,153,721; Sept. 14; Gaz. vol. 218; p. 520.
- Staples, Charles W. (See Gibson and Staples.)
- Staples, Hersey, Diamond Bluff, Wis. Screw-propeller. No. 1,133,191; Mar. 23; Gaz. vol. 212; p. 1306.
- Staples, J. Q. (See Richardson, La Fayette J., assignor.)
- Staples, John A., Newburgh, N. Y. Control device for automobiles. No. 1,135,550; Apr. 13; Gaz. vol. 213; p. 562.
- Staples, Sidney J., West New York, N. J., assignor to The Auto Pneumatic Action Company. Link-connector. No. 1,144,440; June 29; Gaz. vol. 215; p. 1302.

Alphabetical list of patentees—Continued.

- Staples, Sidney J., West New York, N. J., assignor to The Auto Pneumatic Action Company. Gearing for operating the rolls for music-sheets. No. 1,159,287; Nov. 2; Gaz. vol. 220; p. 305.
- Stapleton, Charles A., and O. P. Burchfiel, Anthony, Kans. Gas-engine. No. 1,143,736; June 22; Gaz. vol. 215; p. 1027.
- Stapleton, John A., *et al.* (See Varner, Edward, assignor.)
- Stapley, John H. A., Horley, England. Cork-extractor. No. 1,140,082; May 18; Gaz. vol. 214; p. 905.
- Stapley, Philip H. (See Baldwin and Stapley.)
- Star Electric Company. (See Pool, Clark H., assignor.)
- Star, George, assignor of one-third to M. Silberstein and one-third to P. Wagner, Davenport, Iowa. Changeable sign. No. 1,142,777; June 8; Gaz. vol. 215; p. 629.
- Star Hame Manufacturing Company, The. (See Hudson, James M., assignor.)
- Star Novelty Manufacturing Co. (See Vandiver, Leslie A., assignor.)
- Star Pin Co., The. (See Vandercook, Frank E., assignor.)
- Star Pin Company. (See Hubbard, Henry F., assignor.)
- Star Seal Company. (See Winter, Charles, assignor.)
- Starbuck, Brownlow, assignor of one-half to W. E. Kinsey, Peoria, Ill. Nipple-holder. No. 1,124,546; Jan. 12; Gaz. vol. 210; p. 515.
- Stare, Elias A., Waukesha, Wis. Spring-wheel. No. 1,146,362; July 13; Gaz. vol. 216; p. 504.
- Starek, Peter, Chrome, N. J. Combined shade-holder and pole. No. 1,135,331; Apr. 13; Gaz. vol. 213; p. 486.
- Stark, Adonijah, Joplin, Mo. Horseshoe-spreader. No. 1,155,288; Sept. 28; Gaz. vol. 218; p. 1116.
- Stark Car Coupler Corporation. (See Stark, Charles H., assignor.)
- Stark, Charles H., assignor to Stark Car Coupler Corporation, Strasburg, Va. Automatic car-coupling. No. 1,139,382; May 11; Gaz. vol. 214; p. 621.
- Stark, William F., Rocky Ford, Colo. Stove. No. 1,129,134; Feb. 23; Gaz. vol. 211; p. 990.
- Stark, William F., Maurertown, Va. Tire. No. 1,160,007; Nov. 9; Gaz. vol. 220; p. 594.
- Stark, William O., Chicago, Ill., assignor to Bullock Tractor Company. Caterpillar-tractor. No. 1,124,351; Jan. 12; Gaz. vol. 210; p. 445.
- Stark, William O., Chicago, Ill., assignor to Bullock Tractor Company. Metallic link chain. No. 1,126,904; Feb. 2; Gaz. vol. 211; p. 84.
- Stark, William O., Chicago, Ill., assignor to Bullock Tractor Company. Friction driving and steering mechanism. No. 1,135,218; Apr. 13; Gaz. vol. 213; p. 447.
- Stark, William O., Chicago, Ill., assignor, by mesne assignments, to Bucyrus Company, South Milwaukee, Wis. Metallic link belting. No. 1,146,905; July 20; Gaz. vol. 216; p. 715.
- Starker, Charles C., *et al.* (See Lewis, Albert H., assignor.)
- Starker, Charles R., *et al.* (See Lewis, Albert H., assignor.)
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,130,211; Mar. 2; Gaz. vol. 212; p. 128.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,156,639; Oct. 12; Gaz. vol. 219; p. 484.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,159,121; Nov. 2; Gaz. vol. 220; p. 245.
- Starkey, Lewis E., Douglas, N. D. Beet-harvester. No. 1,127,537; Feb. 9; Gaz. vol. 211; p. 346.
- Starkey, William C., Mansfield, Ohio. Ratchet mechanism. No. 1,145,709; July 6; Gaz. vol. 216; p. 258.
- Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Catenary hanger. No. 1,142,378; June 8; Gaz. vol. 215; p. 491.
- Starkey, William C., and G. H. Bolus, assignors to The Ohio Brass Company, Mansfield, Ohio. Hanger for trolley-wires. No. 1,161,081; Nov. 23; Gaz. vol. 220; p. 1071.
- Starkey, William H., Lakeport, Cal. Clip for plow-beams. No. 1,127,818; Feb. 9; Gaz. vol. 211; p. 446.
- Starks, Charles, Milwaukee, Wis. Wrench. No. 1,123,612; Jan. 5; Gaz. vol. 210; p. 142.
- Starkweather, George A., Fort Madison, Iowa. Truss. No. 1,127,304; Feb. 2; Gaz. vol. 211; p. 224.
- Starkweather, George A., and D. D. Hutson, Fort Madison, Iowa. Washing-machine. No. 1,127,305; Feb. 2; Gaz. vol. 211; p. 224.
- Starkweather, John, Pomona, Kans. Surgical instrument. No. 1,155,169; Sept. 28; Gaz. vol. 218; p. 1081.
- Starling, Robert W., Habira, Ga. Guano-distributor. No. 1,142,064; June 8; Gaz. vol. 215; p. 381.
- Starlipper, Christopher F., Hampton, Tenn. Shaft-collar. No. 1,151,131; Aug. 24; Gaz. vol. 217; p. 1156.
- Starnes, George M., Little Rock, Ark. Motor sawing-machine. No. 1,132,402; Mar. 16; Gaz. vol. 212; p. 969.
- Starr, Alden B., New York, N. Y. Machine for manufacturing paper cartons. No. 1,161,545; Nov. 23; Gaz. vol. 220; p. 1238.
- Starr, Alden B., New York, N. Y., assignor to Starr Package Machinery Company, Inc. Coating-machine. No. 1,149,154; Aug. 3; Gaz. vol. 215; p. 235.
- Starr, Alden B., New York, N. Y., assignor to J. Markle, Jeddo, Pa. Curling-die for packages. No. 1,149,155; Aug. 3; Gaz. vol. 217; p. 235.
- Starr, Alden B., New York, N. Y., assignor to J. Markle, Jeddo, Pa. Bottoming-machine. No. 1,161,544; Nov. 23; Gaz. vol. 220; p. 1237.
- Starr, Alden B., New York, N. Y., assignor to J. Markle, Jeddo, Pa. Bottoming-machine. No. 1,161,544; Nov. 23; Gaz. vol. 220; p. 1237.
- Starr, Clarence D., assignor to The Barstow Stove Co., Providence, R. I. Gas-stove. No. 1,127,306; Feb. 2; Gaz. vol. 211; p. 225.
- Starr, Fred, Sacramento, Cal. Clutch-clamp. No. 1,139,595; May 18; Gaz. vol. 214; p. 731.
- Starr, Jacob M., Newnan, Ga. Flow-fender. No. 1,157,129; Oct. 19; Gaz. vol. 219; p. 685.
- Starr, Jesse W., 3d. (See Pierce, Edward W., assignor.)
- Starr, John E., and C. C. Palmer, New York, N. Y. Powder or explosive magazine for war-ships. No. 1,161,992; Nov. 30; Gaz. vol. 220; p. 1438.
- Starr, Marion E., Mason City, Iowa. Combined hot-water bottle and syringe. No. 1,157,439; Oct. 19; Gaz. vol. 219; p. 796.
- Starr Package Machinery Company. (See Starr, Alden B., assignor.)
- Starr Piano Company, The. (See Draper, Francis W., assignor.)
- Starr, William B., Cisco, assignor of one-half to R. R. Claridge, Longview, Tex. Silo. No. 1,150,232; Aug. 17; Gaz. vol. 217; p. 789.
- Starrett, William, Minneapolis, Minn. Belt. No. 1,135,734; Apr. 13; Gaz. vol. 213; p. 628.
- Stary, Emil P., Cedar Rapids, Iowa. Frost-proof box. No. 1,151,132; Aug. 24; Gaz. vol. 217; p. 1157.
- Staryen, James. (See Constantines, Alexandre N., assignor.)
- Stas, Livin, Tacoma, Wash. Air-drill hanger. No. 1,150,312; Aug. 17; Gaz. vol. 217; p. 818.
- Stassaitis, Michael, Brooklyn, N. Y. Clothes-line support. No. 1,127,693; Feb. 9; Gaz. vol. 211; p. 397.
- Stasek, Frank, Cleveland, Ohio. Oven. No. 1,136,493; Apr. 20; Gaz. vol. 213; p. 937.
- Staska, Joseph. (See Pomije and Staska.)
- Stassano, Ernesto, Turin, Italy. Electric furnace. No. 1,157,819; Oct. 26; Gaz. vol. 219; p. 988.
- Statham, Noel, Yonkers, assignor to Industrial Chemical Company, New York, N. Y. Reinforced-concrete cell for the electrolysis of salt, &c. No. 1,125,201; Jan. 19; Gaz. vol. 210; p. 783.
- Statham, Noel, Yonkers, assignor to Industrial Chemical Company, New York, N. Y. Catalytic oxidizing or purifying means. No. 1,146,363; July 13; Gaz. vol. 216; p. 504.
- Staub, Karl, Turtle Creek, Pa. Sled. 1,127,307; Feb. 2; Gaz. vol. 211; p. 225.
- Staub, Peter, Milwaukee, Wis. Slidable bracket. No. 1,132,495; Mar. 16; Gaz. vol. 212; p. 1004.
- Staubly, John H., New York, N. Y. Rubber overshoe. No. 1,165,812; Dec. 28; Gaz. vol. 221; p. 1200.
- Staud, Edwin G., Minneapolis, Minn. Flexible-box machine. No. 1,123,945; Jan. 5; Gaz. vol. 210; p. 254.
- Staud, Edwin G., Minneapolis, Minn. Wrapping-machine. No. 1,130,938; Mar. 9; Gaz. vol. 212; p. 416.
- Staud, Edwin G., Minneapolis, Minn. Counter for blanks. No. 1,154,451; Sept. 21; Gaz. vol. 218; p. 805.
- Staud, Edwin G., assignor to E. G. Staud Manufacturing Co., Minneapolis, Minn. Glue-pot for box-making machines. No. 1,127,538; Feb. 9; Gaz. vol. 211; p. 346.
- Staud, Edwin G., assignor to E. G. Staud Manufacturing Co., Minneapolis, Minn. Automatic paper-box-topping machine. No. 1,134,562; Apr. 6; Gaz. vol. 213; p. 175.
- Staud, Edwin G., Minneapolis, Minn., assignor to E. G. Staud Manufacturing Company. Machine for making flexible boxes. (Reissue.) No. 13,937; June 22; Gaz. vol. 215; p. 1247.
- Staud, Edwin G., assignor to E. G. Staud Manufacturing Co., Minneapolis, Minn. Machine for tying box-blank bundles. No. 1,163,042; Dec. 7; Gaz. vol. 221; p. 107.
- Staud, Edwin G., assignor to E. G. Staud Manufacturing Co., Minneapolis, Minn. Paper-box-topping machine. No. 1,163,043; Dec. 7; Gaz. vol. 221; p. 108.
- Staud, Edwin G., Minneapolis, Minn., assignor, by mesne assignments, to United States Envelope Company, Worcester, Mass. Envelop-making machine. No. 1,144,506; June 29; Gaz. vol. 215; p. 1323.
- Staud, Edwin G., Minneapolis, Minn., assignor, by mesne assignments, to United States Envelope Company, Springfield, Mass. Envelop-machine. No. 1,147,762; July 27; Gaz. vol. 216; p. 1042.
- Staudt, Charles, Union Hill, N. J., assignor of one-half to C. Meder, New York, N. Y. Gas-relief device for batteries. No. 1,149,988; Aug. 10; Gaz. vol. 217; p. 641.
- Stauffer, B. Grant, *et al.* (See Horting, Levi W., assignor.)
- Stauffer, Benjamin G., *et al.* (See Banzhof, Charles P., assignor.)
- Stauffer, Benjamin G. (See Stauffer, Banzhof, and Stauffer.)

Alphabetical list of patentees—Continued.

- Stauffer, Burton F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Securing neck-closures in hot-water bottles. No. 1,146,741; July 13; Gaz. vol. 216; p. 637.
- Stauffer, Charles F., *et al.* (See Banzhof, Charles P., assignor.)
- Stauffer, Charles F., *et al.* (See Horting, Levi W., assignor.)
- Stauffer, Charles F., C. P. Banzhof, and B. G. Stauffer, assignors of one-fourth to said C. F. Stauffer, one-fourth to said C. P. Banzhof, one-fourth to said B. G. Stauffer, and one-fourth to L. W. Horting, Lancaster, Pa. Electric fan. No. 1,150,313; Aug. 17; Gaz. vol. 217; p. 818.
- Stauffer, Harry F., Dubois, Pa. Draft-regulator for locomotives. No. 1,154,669; Sept. 28; Gaz. vol. 218; p. 910.
- Stauffer, Joseph D., Suplee, Pa. Railway concrete tie. No. 1,148,414; July 27; Gaz. vol. 216; p. 1273.
- Staunton, Gray, Chicago, Ill. Vacuum work-holder. No. 1,130,679; Mar. 2; Gaz. vol. 212; p. 293.
- Stautzenberger, William C. (See Olsen and Stautzenberger.)
- Stavrum, Fritz, Sioux City, Iowa. Aeroplane. No. 1,148,199; July 27; Gaz. vol. 216; p. 1197.
- Stead, Squire D., Liverpool, England. Manufacture of cleaning-waste. No. 1,157,816; Oct. 26; Gaz. vol. 219; p. 988.
- Stead, William, Manchester, England, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Valve mechanism for internal-combustion engines. No. 1,149,002; Aug. 3; Gaz. vol. 217; p. 183.
- Stearman, Everett A., Goodnight, Okla. Tongs. No. 1,135,332; Apr. 13; Gaz. vol. 213; p. 486.
- Stearns, Edward C., Syracuse, N. Y. Faucet. No. 1,164,556; Dec. 14; Gaz. vol. 221; p. 682.
- Stearns, Isaac, assignor to Michigan Safety Furnace Pipe Company, Detroit, Mich. Locking device for sectional conduits. No. 1,152,568; Sept. 7; Gaz. vol. 218; p. 70.
- Stearns, Jason C. (See Holland and Stearns.)
- Stearns, Jason C., Worcester, Mass. Electrical connector or socket. No. 1,137,295; Apr. 27; Gaz. vol. 213; p. 1262.
- Stearns, Jason C., Worcester, Mass. Metal-armor circuit-connecting attachment. No. 1,144,948; June 29; Gaz. vol. 215; p. 1474.
- Stearns, Jason C., Worcester, Mass. Electrical fitting. No. 1,144,949; June 29; Gaz. vol. 215; p. 1475.
- Stearns, Jason C., Worcester, Mass. Focusing device for electric lamps. No. 1,150,552; Aug. 17; Gaz. vol. 217; p. 901.
- Stearns, Jason C., Worcester, Mass. Dash and trouble lamp for automobiles. No. 1,158,578; Nov. 2; Gaz. vol. 220; p. 59.
- Stearns, Jason C., Worcester, Mass. Electric connector. (Reissue.) No. 14,020; Nov. 23; Gaz. vol. 220; p. 1330.
- Stearns, Jason C., Worcester, Mass. Electrical connecting-socket. No. 1,165,553; Dec. 28; Gaz. vol. 221; p. 1108.
- Stearns, Leo B. (See Stearns, Marco B. and L. B.)
- Stearns, Marco B. and L. B., Huntington Beach, Cal. Safety-razor. No. 1,158,741; Nov. 2; Gaz. vol. 220; p. 115.
- Stearns, N. D. (See Bailey, Almont A., Jr., assignor.)
- Stearns, William F., Exeter, N. H. Vulcanizing apparatus. No. 1,154,737; Sept. 28; Gaz. vol. 218; p. 931.
- Stearns, William F., Evanston, Ill. Rubber-jacketed wheel-rim. No. 1,163,701; Dec. 14; Gaz. vol. 221; p. 384.
- Stearns, William S., Cambridge, Mass. Device for waterproofing cameras. No. 1,156,441; Oct. 12; Gaz. vol. 219; p. 413.
- Stebbins, Arthur C., Lansing, Mich. All-steel truck. No. 1,143,088; June 15; Gaz. vol. 215; p. 778.
- Stebbins, Charles B., assignor to Sheffield Car Company, Three Rivers, Mich. Piston. No. 1,157,130; Oct. 19; Gaz. vol. 219; p. 685.
- Stebbins, Grant C., *et al.* (See Cook, James H., assignor.)
- Steber, Bernard T., Utica, N. Y. Knitting-machine. No. 1,148,871; Aug. 3; Gaz. vol. 217; p. 137.
- Stecker Lithographic Company. (See Moulton, Frank W., assignor.)
- Stecker Lithographic Company. (See Ziegler, William C., assignor.)
- Steckenreiter, Frank J., New York, N. Y. Violin-bow. No. 1,151,413; Aug. 24; Gaz. vol. 217; p. 1251.
- Steckle, E. J. (See Price, William J., assignor.)
- Steele, Edward J., Dixon, Ill., assignor of one-third to C. J. Reilly, Syracuse, Ind., and one-third to W. E. Wuerth, Dixon, Ill. Pulverizing and separating machine. No. 1,159,122; Nov. 2; Gaz. vol. 220; p. 245.
- Stedelin, John W., and G. Klein, Centralia, Ill. Cutter-head for mining-machines. No. 1,164,424; Dec. 14; Gaz. vol. 221; p. 636.
- Stedler, Henry W., Boston, Mass. Boot or shoe. No. 1,130,854; Mar. 9; Gaz. vol. 212; p. 387.
- Stedman, Charles R., Cleveland, Ohio. Vessel-guiding mechanism. No. 1,165,032; Dec. 21; Gaz. vol. 221; p. 888.
- Stedman, Pascal H., Newport, R. I. Slat-holder. No. 1,143,657; June 22; Gaz. vol. 215; p. 1001.
- Stedman, William A., Wonder, Nev. Apparatus for thickening slimes. No. 1,153,722; Sept. 14; Gaz. vol. 218; p. 520.
- Stedman, William A., Wonder, Nev. Head-motion. No. 1,153,723; Sept. 14; Gaz. vol. 218; p. 520.
- Stedman's Foundry & Machine Works. (See Boero, Joseph, assignor.)
- Steedman, Edwin H. (See Saunders and Steedman.)
- Steedman, Edwin H., St. Louis, Mo. Needle-holder. No. 1,155,378; Oct. 5; Gaz. vol. 219; p. 18.
- Steedman, George F., St. Louis, Mo. Lubricating system for compressors and similar machines. No. 1,151,732; Aug. 31; Gaz. vol. 217; p. 1407.
- Steedman, George F., St. Louis, Mo. Compressor. No. 1,159,123; Nov. 2; Gaz. vol. 220; p. 246.
- Steedman, George F., St. Louis, assignor to Curtis & Company Manufacturing Company, Wellston, Mo. Trolley. No. 1,151,226; Aug. 24; Gaz. vol. 217; p. 1190.
- Steedman, George F., St. Louis, assignor to Curtis & Company Manufacturing Company, Wellston, Mo. Air-drier. No. 1,153,181; Sept. 7; Gaz. vol. 218; p. 287.
- Steedman, George F., St. Louis, assignor to Curtis & Company Manufacturing Company, Wellston, Mo. Lubricating apparatus for compressors and similar machines. No. 1,162,262; Nov. 30; Gaz. vol. 220; p. 1533.
- Steege, Henry W., Westgate, Iowa. Portable grain-elevator. No. 1,135,735; Apr. 13; Gaz. vol. 213; p. 629.
- Steege, Henry W., Westgate, Iowa. Litter-carrier. No. 1,151,060; Aug. 24; Gaz. vol. 217; p. 1133.
- Steel Art Tool Company. (See Palmgren, Carl A., assignor.)
- Steel, Davidson, Robinson, Ill. Rail-joint. No. 1,127,819; Feb. 9; Gaz. vol. 211; p. 446.
- Steel, Davidson, Robinson, Ill. Railway-rail joint. No. 1,164,135; Dec. 14; Gaz. vol. 221; p. 536.
- Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
- Steel, John L., Wellston, Ohio. Cut-off. No. 1,144,259; June 22; Gaz. vol. 215; p. 1211.
- Steel, Leonard R., Chicago, Ill. Shipping-can. No. 1,140,414; May 25; Gaz. vol. 214; p. 1055.
- Steel, Leonard R., Chicago, Ill. Shipping-can. No. 1,148,059; July 27; Gaz. vol. 216; p. 1147.
- Steel Scaffolding Company. (See Bonenberger, George, assignor.)
- Steel Scaffolding Company. (See Bonenberger and Goodwin, assignors.)
- Steele, Benjamin M., Peoria, Ill. Portable grain-elevator. No. 1,162,817; Dec. 7; Gaz. vol. 221; p. 31.
- Steele, Benjamin M., Peoria, Ill. Loading device. No. 1,165,460; Dec. 28; Gaz. vol. 221; p. 1077.
- Steele, Charles B., New York, N. Y. Tire. No. 1,151,133; Aug. 24; Gaz. vol. 217; p. 1157.
- Steele, Edwin G. (See Sutton and Steele.)
- Steele, Gabriel, Sioux City, Iowa. Furnace-door handle. No. 1,155,689; Oct. 5; Gaz. vol. 219; p. 127.
- Steele, Henry B., Rising Sun, Ind., assignor of one-third to H. H. Steele, Paris, Ill., and one-third to W. C. Steele, Rising Sun, Ind. Carriage-painter's rack and buggy-jack. No. 1,133,411; Mar. 30; Gaz. vol. 212; p. 1420.
- Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,126,585; Jan. 26; Gaz. vol. 210; p. 1315.
- Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,138,992; May 11; Gaz. vol. 214; p. 485.
- Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,138,993; May 11; Gaz. vol. 214; p. 485.
- Steele, Hugh H., *et al.* (See Steele, Henry B., assignor.)
- Steele and Johnson Manufacturing Company. (See Spurway, George A., assignor.)
- Steele, Joseph H. (See Stotler and Steele.)
- Steele, Lawrence C., Pittsburgh, Pa. Sheet-aligning mechanism. No. 1,136,059; Apr. 20; Gaz. vol. 213; p. 782.
- Steele, Lawrence C., Pittsburgh, Pa. Valve. No. 1,138,994; May 11; Gaz. vol. 214; p. 486.
- Steele, Lee C., Plymouth, and R. Steele, North Manchester, Ind. Wire-bound box. No. 1,123,416; Jan. 5; Gaz. vol. 210; p. 75.
- Steele, Lee C., Plymouth, and R. Steele, North Manchester, Ind. Wire-bound box. No. 1,123,417; Jan. 5; Gaz. vol. 210; p. 75.
- Steele, Mary E., *et al.* (See Terry, Louis, assignor.)
- Steele, Roscoe. (See Steele, Lee C. and R.)
- Steele, Walter L. (See Sutton and Steele.)
- Steele, William C., *et al.* (See Steele, Henry B., assignor.)
- Steele, Edgar V. (See Meredith, Edward W., assignor.)
- Steelman, Charles S., assignor to N. C. Steelman, Glendale, Cal. Eyeglass-stud. No. 1,135,219; Apr. 13; Gaz. vol. 213; p. 447.
- Steelman, Harry R., Ocean City, N. J. Package-tie. No. 1,147,825; July 27; Gaz. vol. 216; p. 1063.
- Steelman, Lewis, Millville, N. J. Glass-furnace. No. 1,145,815; July 6; Gaz. vol. 216; p. 293.
- Steelman, Nellie C. (See Steelman, Charles S., assignor.)
- Steely, Frank R., Hamburg, Pa. Elevator. No. 1,159,809; Nov. 9; Gaz. vol. 220; p. 525.
- Steely, Harry G., West Liberty, Ohio. Reel for cloth-measuring machines. No. 1,146,364; July 13; Gaz. vol. 216; p. 505.

Alphabetical list of patentees—Continued.

- Steely, Harry G., West Liberty, Ohio. Cloth-measuring machine. No. 1,147,458; July 20; Gaz. vol. 216; p. 910.
- Steen, Halfdan A., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Time-limit circuit-breaker. No. 1,140,007; May 18; Gaz. vol. 214; p. 879.
- Steen, Halfdan A., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. System of control. No. 1,149,150; Aug. 3; Gaz. vol. 217; p. 233.
- Steen, Halfdan A., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Switch. No. 1,155,626; Oct. 5; Gaz. vol. 219; p. 104.
- Steen, Halfdan A., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Liquid rheostat. No. 1,161,993; Nov. 30; Gaz. vol. 220; p. 1439.
- Steen, Harry A., Pittsburgh, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Wheel-brake. No. 1,125,759; Jan. 19; Gaz. vol. 210; p. 983.
- Steen, John, Seattle, Wash. Velocipede-sled. No. 1,146,210; July 13; Gaz. vol. 216; p. 453.
- Steen, John I., Bakersfield, Cal. Drop-light. No. 1,159,124; Nov. 2; Gaz. vol. 220; p. 246.
- Steen, Lillie G., Pittsburgh, Pa. Puzzle. No. 1,137,805; May 4; Gaz. vol. 214; p. 29.
- Steenland, James O., Blanchardville, Wis. Temperature-regulator. No. 1,153,407; Sept. 14; Gaz. vol. 218; p. 408.
- Steere, Frank W., Detroit, Mich., assignor to Semet-Solvay Company, Solvay, N. Y. Removing tarry substances from gas. No. 1,130,212; Mar. 2; Gaz. vol. 212; p. 129.
- Steere, Frank W., Detroit, Mich., assignor to Semet-Solvay Company, Solvay, N. Y. Removing tar from gas. No. 1,130,213; Mar. 2; Gaz. vol. 212; p. 129.
- Steere, Frank W., Detroit, Mich., assignor to Semet-Solvay Company, Solvay, N. Y. Removing tar from gas. No. 1,130,214; Mar. 2; Gaz. vol. 212; p. 129.
- Steere, Frank W., Detroit, Mich., assignor to Semet-Solvay Company, Solvay, N. Y. Discharging-electrode and forming the same. No. 1,130,215; Mar. 2; Gaz. vol. 212; p. 130.
- Steere, William H. (See Barnes, Simpson, Steere, and Lawrence.)
- Steere, William J., Rockwood, Tenn. Attachment for knitting-machines. No. 1,143,658; June 22; Gaz. vol. 215; p. 1001.
- Stefanka, Michael, Cleveland, Ohio. Vehicle brake-shoe. No. 1,130,939; Mar. 9; Gaz. vol. 212; p. 416.
- Steffa, Homer I., Chicago, Ill. Reinforcing-clip. No. 1,140,204; May 18; Gaz. vol. 214; p. 947.
- Steffan, Frank, San Diego, Cal. Aerial landing and launching appliance. No. 1,144,505; June 29; Gaz. vol. 215; p. 1323.
- Steffens, Fred, St. Joseph, Mo. Swing. No. 1,161,264; Nov. 23; Gaz. vol. 220; p. 1139.
- Steffens, William H., New York, N. Y. Feed-bag. No. 1,155,845; Oct. 5; Gaz. vol. 219; p. 182.
- Steffensen, Andrew J., Woodstock, Ill. Attachment for Chain-Tighteners. No. 1,132,496; Mar. 16; Gaz. vol. 212; p. 1004.
- Stegemann, Robert, and A. Johannes, Two Rivers, Wis. Electrical indicator for mail-boxes. No. 1,124,352; Jan. 12; Gaz. vol. 210; p. 445.
- Steger, William, assignor to Diamond Metal Stamping Co., Columbus, Ohio. Metal strip for windows. No. 1,160,209; Nov. 16; Gaz. vol. 220; p. 718.
- Stegner, Frederick A., Cincinnati, Ohio. Smoking-pipe. No. 1,152,128; Aug. 31; Gaz. vol. 217; p. 1546.
- Stegner, Frederick A., Cincinnati, Ohio. Smoking-pipe and cleaner therefor. No. 1,159,542; Nov. 9; Gaz. vol. 220; p. 426.
- Stehlin, Charles F., New Rochelle, N. Y. Screw-press. No. 1,152,857; Sept. 7; Gaz. vol. 218; p. 176.
- Stelm, Frank R., assignor to Enamel Concrete Company, Des Moines, Iowa. Waterproofing compound for cement, concrete, and the like. No. 1,141,848; June 1; Gaz. vol. 215; p. 265.
- Stehr, Joseph, Cincinnati, Ohio. Demountable rim. No. 1,144,260; June 22; Gaz. vol. 215; p. 1212.
- Steidle, Lewis, Mauch Chunk, Pa. Railway-tie. No. 1,160,460; Nov. 16; Gaz. vol. 220; p. 805.
- Steimer, Theodore C., Dormont, Pa. Pressing glass articles. No. 1,125,760; Jan. 19; Gaz. vol. 210; p. 983.
- Steimer, Theodore C., Knoxville, assignor to United States Glass Company, Pittsburgh, Pa. Manufacture of hollow glass articles. No. 1,165,212; Dec. 21; Gaz. vol. 221; p. 953.
- Stein, August, St. Louis, Mo. Folding umbrella. No. 1,124,353; Jan. 12; Gaz. vol. 210; p. 445.
- Stein, David F., Montreal, Quebec, Canada. Bag-turning machine. No. 1,140,627; May 25; Gaz. vol. 214; p. 1131.
- Stein, Edward J., Murphysboro, Ill. Calipers. No. 1,163,278; Dec. 7; Gaz. vol. 221; p. 190.
- Stein, Georg V., assignor to Perfection Spring Wheel Company, Indianapolis, Ind. Resilient wheel. No. 1,151,302; Aug. 24; Gaz. vol. 217; p. 1215.
- Stein, John, Chicago, Ill. Extension-table. No. 1,151,733; Aug. 31; Gaz. vol. 217; p. 1408.
- Stein, William, St. Louis, Mo. Automobile radiator-protector. No. 1,165,461; Dec. 28; Gaz. vol. 221; p. 1077.
- Steinbach, Adolph, Long Branch, N. J. Juice-extracting press. No. 1,128,732; Feb. 16; Gaz. vol. 211; p. 811.
- Steinbach, Adolph, Long Branch, N. J. Juice-extracting press. No. 1,128,733; Feb. 16; Gaz. vol. 211; p. 811.
- Steinbach, Charles, assignor of one-half to H. A. Steinbach, Chelsea, Mich. Harness-saddle. No. 1,124,181; Jan. 5; Gaz. vol. 210; p. 335.
- Steinbach, George P., Baltimore, Md. Child's sulky. No. 1,151,414; Aug. 24; Gaz. vol. 217; p. 1251.
- Steinbach, Henry A. (See Steinbach, Charles, assignor.)
- Steinbach, Reinhold, assignor to Fried. Krupp, Aktiengesellschaft, Grusonwerke, Magdeburg-Buckau, Germany. Tubular grinding-mill. No. 1,130,644; Mar. 2; Gaz. vol. 212; p. 280.
- Steinbecker, Karl, Charlottenburg, Germany, assignor to General Electric Company. Method of and means for feeding fluid combustible to internal-combustion engines. No. 1,154,816; Sept. 28; Gaz. vol. 218; p. 958.
- Steinbecker, Karl, Charlottenburg, Germany, assignor to General Electric Company. Divided cylinder for engines. No. 1,157,334; Oct. 19; Gaz. vol. 219; p. 758.
- Steinbecker, Karl, Charlottenburg, Germany, assignor to General Electric Company. Cylinder construction for multiple-piston engines. No. 1,157,335; Oct. 19; Gaz. vol. 219; p. 758.
- Steinbecker, Karl, Charlottenburg, Germany, assignor to General Electric Company. Cross-head. No. 1,158,328; Oct. 26; Gaz. vol. 219; p. 1168.
- Steinberger, Louis, New York, N. Y. Mouthpiece for transmitters. No. 1,124,547; Jan. 12; Gaz. vol. 210; p. 515.
- Steinberger, Louis, New York, N. Y. Sound-transmitting member. No. 1,146,535; July 13; Gaz. vol. 216; p. 568.
- Steinberger, Louis, Brooklyn, N. Y. Locking-clip. No. 1,139,141; May 11; Gaz. vol. 214; p. 538.
- Steinberger, Louis, Brooklyn, N. Y. Locking-clip. No. 1,139,142; May 11; Gaz. vol. 214; p. 539.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,143,149; June 15; Gaz. vol. 215; p. 799.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,156,442; Oct. 12; Gaz. vol. 219; p. 414.
- Steinberger, Louis, Brooklyn, N. Y. High-voltage strain-insulator. No. 1,160,543; Nov. 16; Gaz. vol. 220; p. 835.
- Steinberger, Louis, Brooklyn, N. Y. Insulating-support for high-tension conductors. No. 1,160,544; Nov. 16; Gaz. vol. 220; p. 836.
- Steinberger, Louis, Brooklyn, N. Y. Mouthpiece. No. 1,160,545; Nov. 16; Gaz. vol. 220; p. 836.
- Steinberger, Louis, Brooklyn, N. Y. Disk strain-insulator. No. 1,160,546; Nov. 16; Gaz. vol. 220; p. 836.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,166,391; Dec. 28; Gaz. vol. 221; p. 1408.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,166,392; Dec. 28; Gaz. vol. 221; p. 1408.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,166,393; Dec. 28; Gaz. vol. 221; p. 1409.
- Steinberger, Louis, Brooklyn, N. Y. Spool-type-disk strain-insulator. No. 1,166,394; Dec. 28; Gaz. vol. 221; p. 1409.
- Steinburg, William, Jamaica, and D. Wegner, New York, N. Y. Car-brake. No. 1,132,695; Mar. 23; Gaz. vol. 212; p. 1124.
- Steindorff, Adolf. (See Schmidt and Steindorff.)
- Steindorff, Adolf, and R. Weide, assignors to Farbwerke vorm. Meister Lucius & Brining, Höchst-on-the-Main, Germany. Finely-divided vat dyestuffs and making same. No. 1,145,934; July 13; Gaz. vol. 216; p. 355.
- Steiner, Adolf, assignor to Titania Schreibmaschinen Ges. M. B. H., Berlin, Germany. Keyboard-machine. No. 1,153,582; Sept. 14; Gaz. vol. 218; p. 471.
- Steiner, Barnette T., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Bow-clamping device. No. 1,128,541; Feb. 16; Gaz. vol. 211; p. 746.
- Steiner, Charles C., Philadelphia, Pa. Fire-hydrant. No. 1,123,418; Jan. 5; Gaz. vol. 210; p. 76.
- Steiner, Frank M. (See Overholt and Steiner.)
- Steiner, Frederick W., Chicago, Ill. Machine for washing printers' furniture. No. 1,156,563; Oct. 12; Gaz. vol. 219; p. 456.
- Steiner, George A., and W. F. Tuckett, Salt Lake City, Utah. Apron. No. 1,136,732; Apr. 20; Gaz. vol. 213; p. 1022.
- Steiner, Louis. (See Goldstein and Steiner.)
- Steiner, Paul, Berlin, and O. Adt, Buch, near Berlin, Germany. Extinguishing flames in tanks. No. 1,164,234; Dec. 14; Gaz. vol. 221; p. 568.
- Steiner, Richard J., assignor to Philadelphia Pile Fabric Mills, Philadelphia, Pa. Napping-machine. No. 1,153,173; Sept. 7; Gaz. vol. 218; p. 284.
- Steiner, Ulrich, assignor to Landis Tool Company, Waynesboro, Pa. Grinding-machine. No. 1,145,816; July 6; Gaz. vol. 216; p. 294.
- Steiner, Ulrich, assignor to Landis Tool Company, Waynesboro, Pa. Grinding-machine. No. 1,156,254; Oct. 12; Gaz. vol. 219; p. 346.
- Steinfort, Henry, Alida, Kans. Combined cultivator and drag. No. 1,138,024; May 4; Gaz. vol. 214; p. 104.

Alphabetical list of patentees—Continued.

- Steingruber, George, assignor to M. B. Steingruber, Hazlehurst, Miss. Locking device for extension-tables. No. 1,145,710; July 6; Gaz. vol. 216; p. 258.
- Steingruber, George, assignor to M. B. Steingruber, Hazlehurst, Miss. Table. No. 1,149,964; Aug. 10; Gaz. vol. 217; p. 632.
- Steingruber, Minnie B. (See Steingruber, George, assignor.)
- Steinhart, Hermann, assignor to Firm of R. Bosch, Stuttgart, Germany. Reversing mechanism for electric motors. No. 1,133,675; Mar. 30; Gaz. vol. 212; p. 1516.
- Steinhart, Hermann, assignor to The Firm of R. Bosch, Stuttgart, Germany. Shaft-coupling. No. 1,140,628; May 25; Gaz. vol. 214; p. 1132.
- Steinhilber, Adolf A., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Treadle for piano-playing attachments. No. 1,136,733; Apr. 20; Gaz. vol. 213; p. 1022.
- Steinhilber, Adolf A., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Tempo-regulator and rewinding mechanism for piano-players. No. 1,141,283; June 1; Gaz. vol. 215; p. 69.
- Steinke, August W., assignor to Monarch Telephone Manufacturing Company, Fort Dodge, Iowa. Telephony. No. 1,153,352; Sept. 14; Gaz. vol. 218; p. 387.
- Steinke, Henry A., Spokane, Wash. Return-reply envelop. No. 1,145,935; July 13; Gaz. vol. 216; p. 355.
- Steinkirchner, Franklin P. (See Wingert, John W., assignor.)
- Steinly, Anna, Mongo, Ind. Stove-grate. No. 1,130,344; Mar. 2; Gaz. vol. 212; p. 174.
- Steinman, Joseph, assignor, by mesne assignments, to E. Victor, Chicago, Ill. Reciprocating cutter. No. 1,164,669; Dec. 21; Gaz. vol. 221; p. 762.
- Steinmann, Frank, St. Louis, Mo. Flying-machine. No. 1,141,431; June 1; Gaz. vol. 215; p. 124.
- Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Constant-current rectifier system. No. 1,131,282; Mar. 9; Gaz. vol. 212; p. 534.
- Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. High-potential switching system. No. 1,157,336; Oct. 19; Gaz. vol. 219; p. 759.
- Steinmetz, Joseph A., Philadelphia, Pa. Landing and transfer net for use at sea. No. 1,128,072; Feb. 9; Gaz. vol. 211; p. 535.
- Steinmetz, Joseph A., Philadelphia, Pa. Offensive device carried by air-craft. No. 1,136,494; Apr. 20; Gaz. vol. 213; p. 938.
- Steinmetz, Joseph A., Philadelphia, Pa. Automobile theft-indicator. No. 1,142,639; June 8; Gaz. vol. 215; p. 582.
- Steinthal, Martin, New York, N. Y. Case for displaying samples. No. 1,128,542; Feb. 16; Gaz. vol. 211; p. 747.
- Steljes, Walter S., South Tottenham, London, England. Type-printing electric-telegraph system. No. 1,152,059; Aug. 31; Gaz. vol. 217; p. 1522.
- Stell, Alfred, Steeton, near Keighley, J. Stell and H. Welch, Keighley, England; said Welch assignor to said Alfred Stell and said J. Stell. Spinning-machine. No. 1,124,672; Jan. 12; Gaz. vol. 210; p. 560.
- Stell, John. (See Stell and Welch.)
- Steller, Theodore A., Houghton, Mich. Electric heating attachment for radiators. No. 1,124,548; Jan. 12; Gaz. vol. 210; p. 516.
- Stellers, W. A. (See Andrews, William E., assignor.)
- Stellmacher, Wilhelm A., Arbon, Switzerland. Mechanism for balancing by yielding resistances weights as embroidery-work frames suspended by supporting-levers. No. 1,126,905; Feb. 2; Gaz. vol. 211; p. 84.
- Stellmacher, Wilhelm A., Arbon, Switzerland. Embroidering-machine. No. 1,160,333; Nov. 16; Gaz. vol. 220; p. 763.
- Stellner, John A. (See Veiox, Frank J., assignor.)
- Stelter, Francis C. W., Long Island City, N. Y., assignor to Volvox Machine Co., Inc., New York, N. Y. Glove-cleaning machine. No. 1,126,906; Feb. 2; Gaz. vol. 211; p. 85.
- Stelzmann, Henry, Sewickley, Pa. Plowing-machine. No. 1,137,031; Apr. 27; Gaz. vol. 213; p. 1164.
- Stelzner, Hermann, assignor to Drägerwerk, Heinh. & Bernh. Dräger, Lübeck, Germany. Diver's helmet. No. 1,159,125; Nov. 2; Gaz. vol. 220; p. 247.
- Stelzner, Hermann, assignor to Drägerwerk, Heinh. & Bernh. Dräger, Lübeck, Germany. Distribution of the weight on divers' suits. No. 1,162,525; Nov. 30; Gaz. vol. 220; p. 1623.
- Stember, Bernard, New York, N. Y. Memorandum-book. No. 1,150,716; Aug. 17; Gaz. vol. 217; p. 957.
- Stempel, Waldemar M., Fort Madison, Iowa. Sparking device for engines. No. 1,138,512; May 4; Gaz. vol. 214; p. 277.
- Stempel, Waldemar M., State College, Pa. Electric meter. No. 1,138,513; May 4; Gaz. vol. 214; p. 277.
- Stempel, William. (See Monsees, Thomas A., assignor.)
- Stemple, James A., West Lafayette, Ohio. Automobile-seat. No. 1,160,781; Nov. 16; Gaz. vol. 220; p. 921.
- Stenersen, Ole, assignor of one-half to O. P. Olsen, Brooklyn, N. Y. Tool. No. 1,133,587; Mar. 30; Gaz. vol. 212; p. 1483.
- Stenerson, Andrew R. (See Crosley and Stenerson.)
- Stengel, William F., assignor of one-half to J. Benker, Akron, Ohio. Vehicle wheel-rim. No. 1,154,216; Sept. 21; Gaz. vol. 218; p. 723.
- Stenger, Grace C. (See Frederickson, Clayton E., assignor.)
- Stenger, Henry A., Cowell, Cal. Self-oiling pump-head. No. 1,134,929; Apr. 6; Gaz. vol. 213; p. 301.
- Stenning, William W. (See Higgins and Stenning.)
- Stenotype Company, The. (See Sargent, Marshall B., assignor.)
- Stenotype Company, The. (See Sargent and Karlberg, assignors.)
- Stenshoel, Nels P., Crookston, Minn. Combined head and jaw rest. No. 1,131,802; Mar. 16; Gaz. vol. 212; p. 752.
- Stephen, Alexander, London, England. Apparatus for treating articles of paper, cardboard, and the like with waterproofing material. No. 1,140,626; May 25; Gaz. vol. 214; p. 1131.
- Stephen, David, Stratford, assignor to The H. O. Canfield Co., Bridgeport, Conn. Making rubber float-ball valves. No. 1,158,009; Oct. 26; Gaz. vol. 219; p. 1056.
- Stephen, David, Stratford, assignor to The H. O. Canfield Co., Bridgeport, Conn. Rubber float-ball valve. No. 1,158,395; Oct. 26; Gaz. vol. 219; p. 1192.
- Stephen Sanford & Sons. (See Paton, William H., assignor.)
- Stephens-Adamson Mfg. Co. (See Dull, Raymond W., assignor.)
- Stephens, Alva A. (See Harter and Stephens.)
- Stephens, Charles H. (See Brettelle, Ambrose K., assignor.)
- Stephens, Cyrus, Flat Rock, and V. M. Carter, Columbus, Ind. Combined collapsible table and lunch-box. No. 1,130,550; Mar. 2; Gaz. vol. 212; p. 249.
- Stephens, Dewey D., Ainsworth, Iowa. Planter. No. 1,131,013; Mar. 9; Gaz. vol. 212; p. 441.
- Stephens, Dewey D., Ainsworth, Iowa. Elevating mechanism for corn-planters. No. 1,131,014; Mar. 9; Gaz. vol. 212; p. 441.
- Stephens, Dexter B. (See Woodford, James A., assignor.)
- Stephens, Edward L., Los Angeles, Cal. Railway-car. No. 1,131,618; Mar. 9; Gaz. vol. 212; p. 650.
- Stephens, Emanuel, Mount Vernon, N. Y. Timer for gas-engines. No. 1,125,600; Jan. 19; Gaz. vol. 210; p. 925.
- Stephens, Emma, Silver Cliff, Colo. Stovepipe-cleaner. No. 1,161,355; Nov. 23; Gaz. vol. 220; p. 1171.
- Stephens, Harold A., New York, N. Y. Water-meter. No. 1,164,425; Dec. 14; Gaz. vol. 221; p. 636.
- Stephens, Harry H. (See D'Olier and Stephens.)
- Stephens, Harry H., Philadelphia, Pa. Centrifugal hanger. No. 1,141,430; June 1; Gaz. vol. 215; p. 124.
- Stephens, Hugh T., Carmarthen, Wales. Puncture-mending device. No. 1,131,745; Mar. 16; Gaz. vol. 212; p. 729.
- Stephens, James S., Chicago, Ill. Flying-machine. No. 1,125,202; Jan. 19; Gaz. vol. 210; p. 784.
- Stephens, James S., Chicago, Ill. Aeroplane flying-machine. No. 1,127,105; Feb. 2; Gaz. vol. 211; p. 156.
- Stephens, James W. T., New Orleans, La. Spring-cushion tire. No. 1,142,279; June 8; Gaz. vol. 215; p. 456.
- Stephens, John A., Chicago, Ill. Cover for shipping and storing vessels. No. 1,147,657; July 20; Gaz. vol. 216; p. 980.
- Stephens, John T., assignor of one-third to W. H. Lyon, Knoxville, Iowa. Automatic vehicle-brake. No. 1,137,095; Apr. 27; Gaz. vol. 213; p. 1188.
- Stephens, Louis K., Dallas, Tex. Cotton-gin. No. 1,125,203; Jan. 19; Gaz. vol. 210; p. 784.
- Stephens, Louis K., Dallas, Tex. Linter-boat-driving mechanism. No. 1,139,596; May 18; Gaz. vol. 214; p. 732.
- Stephens, Robert P., Raton, N. Mex. Changeable exhibitor. No. 1,150,314; Aug. 17; Gaz. vol. 217; p. 818.
- Stephens, William H., Tyrone, Iowa. Corn-planter. No. 1,162,526; Nov. 30; Gaz. vol. 220; p. 1624.
- Stephenson, Charles H., Lynn, Mass. Fireproof waste-pail. No. 1,148,261; July 27; Gaz. vol. 216; p. 1219.
- Stephenson, David C., Toledo, Ohio, assignor to The National Malleable Castings Company. Rail-joint. No. 1,145,336; July 6; Gaz. vol. 216; p. 124.
- Stephenson, Edwin N., Philadelphia, assignor to Elliott-Fisher Company, Harrisburg, Pa. Platen equipment for type-writing machines. No. 1,128,382; Feb. 16; Gaz. vol. 211; p. 690.
- Stephenson, James A., Ashbyburg, Ky. Gate-opener. No. 1,160,339; Nov. 16; Gaz. vol. 220; p. 763.
- Stephenson, John R., Pullman, Wash. Plate and film numbering machine. No. 1,159,126; Nov. 2; Gaz. vol. 220; p. 247.
- Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Locking mechanism. No. 1,152,129; Aug. 31; Gaz. vol. 217; p. 1546.
- Stephenson, Thomas B., assignor to The Sessions Clock Company, Forestville, Conn. Locking device for dash-clocks. No. 1,137,032; Apr. 27; Gaz. vol. 213; p. 1165.
- Stephenson, Thomas E., Penbrook, Pa. Compound tool. No. 1,142,065; June 8; Gaz. vol. 215; p. 381.
- Stephenson Underwear Mills. (See Casmier, Minnie, assignor.)

Alphabetical list of patentees—Continued.

- Stephenson, William C., Woburn, assignor to Vose & Son Piano Company, Boston, Mass. Boring-machine. No. 1,124,549; Jan 12; Gaz. vol. 210; p. 516.
- Stephenson, William C., Woburn, assignor to Vose & Sons Piano Company, Boston, Mass. Transposing mechanism for pneumatic players. No. 1,138,155; May 4; Gaz. vol. 214; p. 153.
- Stephenson, William C., Woburn, assignor to Vose & Sons Piano Company, Boston, Mass. Valve construction for pneumatic players. No. 1,160,008; Nov. 9; Gaz. vol. 220; p. 595.
- Stephenson, William C., and A. J. Drapalk, assignors of one-half to C. M. Newman, Rocky Mount, N. C. Grinding-machine. No. 1,156,504; Oct. 12; Gaz. vol. 219; p. 436.
- Stephenson, William P., Windsor, Ontario, Canada. Knockdown lamp stand and shade. No. 1,157,732; Oct. 26; Gaz. vol. 219; p. 960.
- Stepp, John F. (See Sawyer, Stanley F., assignor.)
- Stereo-Annunciator Co. (See Gay and Duke, assignors.)
- Sterilization Company. (See Swinburne, George W., assignor.)
- Sterling, Frank H., Highbury, London, England. Brush. No. 1,136,495; Apr. 20; Gaz. vol. 213; p. 938.
- Sterling, James C., De Soto, and C. A. Becker, St. Louis, Mo. Concrete-fence-post mold. No. 1,145,625; July 6; Gaz. vol. 216; p. 227.
- Sterling Machinery Company. (See Wege, Ernest F., assignor.)
- Stern, Albert, Yonkers, N. Y. Contoller. No. 1,144,872; June 29; Gaz. vol. 215; p. 1450.
- Stern, Albert and P. K., Yonkers, N. Y.; said P. K. Stern assignor to said Albert Stern. Weatherproof annunciator-case. No. 1,144,871; June 29; Gaz. vol. 215; p. 1450.
- Stern, Albert, Yonkers, and P. K. Stern, deceased; E. L. Stern, executrix, New York, N. Y.; said E. L. Stern assignor to said Albert Stern. Signaling system. No. 1,144,873; June 29; Gaz. vol. 215; p. 1451.
- Stern-Coleman Diamond Machine Company. (See Coleman, Clyde J., assignor.)
- Stern, David, *et al.* (See Jellinek, Charles, assignor.)
- Stern, Elizabeth L., executrix. (See Stern, Albert and P. K.)
- Stern, Elizabeth L., executrix. (See Stern, Philip K.)
- Stern, Frederick, New Rochelle, N. Y. Respirator. No. 1,142,990; June 15; Gaz. vol. 215; p. 744.
- Stern, Georg. (See Bosch, Mittasch, Wolf, and Stern.)
- Stern, Guido, assignor to Bamberger Leroi & Company, Frankfort-on-the-Main, Germany. Apparatus for automatically regulating the temperature of a supply of liquid. No. 1,156,505; Oct. 12; Gaz. vol. 219; p. 437.
- Stern, Irving L., New Orleans, La., assignor to Havana-American Co., New York, N. Y. Cigar-package. No. 1,151,415; Aug. 24; Gaz. vol. 217; p. 1251.
- Stern, Lewis J. (See Hough and Stern.)
- Stern, Milton C. (See Nickol and Stern.)
- Stern, Nathan S., New Orleans, La. Screen for rice-cleaning machines. No. 1,156,640; Oct. 12; Gaz. vol. 219; p. 484.
- Stern, Philip K. (See Stern, Albert and P. K.)
- Stern, Philip K., deceased, New York, N. Y.; E. L. Stern, executrix. Photographic-plate holder. No. 1,127,539; Feb. 9; Gaz. vol. 211; p. 346.
- Stern, Philip K., New York, N. Y., assignor to Frank M. Randall Manufacturing Corporation. Universal joint. No. 1,143,659; June 22; Gaz. vol. 215; p. 1001.
- Stern, Philip K., deceased; E. L. Stern, executrix, assignor to Frank M. Randall Manufacturing Corporation, New York, N. Y. Universal joint. No. 1,143,660; June 22; Gaz. vol. 215; p. 1002.
- Stern, Samuel W., New York, N. Y. Smoking-doll. No. 1,143,458; June 15; Gaz. vol. 215; p. 908.
- Stern, Walter F., assignor of one-third to J. A. Shank, Lancaster, Pa. Floor-scraper. No. 1,135,220; Apr. 13; Gaz. vol. 213; p. 447.
- Sternau & Company, S. (See Ball, Henry P., assignor.)
- Sternau & Company, S. (See Nelson, Charles, assignor.)
- Sternau & Company, S. (See Nelson and Dyer, assignors.)
- Sternberger, Samuel. (See Hunsberger, Neville, assignor.)
- Sternbergh, David D. (See Atwood and Sternbergh.)
- Sternbergh, David D., assignor to American Die and Tool Company, Reading, Pa. Transmission-gear casing. No. 1,143,661; June 22; Gaz. vol. 215; p. 1002.
- Sterner, Clement A., assignor to H. L. Sterner, trustee, Allentown, Pa. Windmill. No. 1,144,737; June 29; Gaz. vol. 215; p. 1404.
- Sterner, Clement A., assignor to H. L. Sterner, trustee, Allentown, Pa. Windmill control for electrical equipment. No. 1,152,666; Sept. 7; Gaz. vol. 218; p. 106.
- Sterner, Helen L., trustee. (See Sterner, Clement A., assignor.)
- Sterrett, Manford E., Burrows, Ind. Bottle. No. 1,127,694; Feb. 9; Gaz. vol. 211; p. 398.
- Sterzing, Albert A. E., New York, N. Y. Apparatus for generating steam. No. 1,129,914; Mar. 2; Gaz. vol. 212; p. 28.
- Stetson, George R. (See Bullard, Charles E., assignor.)
- Stetter, Friedrich C., Attleboro, Mass. Automatic lawn-sprinkler. No. 1,146,663; July 13; Gaz. vol. 216; p. 611.
- Staudner, Martin, Lusan, near Gera, Germany. Adjusting device for tool-chucks. No. 1,157,817; Oct. 26; Gaz. vol. 219; p. 988.
- Steuer, Carl, New York, N. Y. Violin sound-post. No. 1,123,946; Jan. 5; Gaz. vol. 210; p. 254.
- Steuernagel, Hugo V., Hartford, Conn. Clamp. No. 1,126,116; Jan. 26; Gaz. vol. 210; p. 1143.
- Steuler, Philipp, Pittsburgh, Pa. Line-fastener. No. 1,135,736; Apr. 13; Gaz. vol. 213; p. 629.
- Steven, Andrew D., East Rochester, N. Y. Fender for automobiles. No. 1,127,308; Feb. 2; Gaz. vol. 211; p. 225.
- Stevenot, George A., New York, N. Y. Stain-removing composition. No. 1,151,416; Aug. 24; Gaz. vol. 217; p. 1252.
- Stevens, Alton E. (See Couch, Henry, and Stevens.)
- Stevens, Arthur L., Chicago, Ill., assignor, by mesne assignments, to Safeguard Tag Company, Portland, Me. Machine for making tags and the like. (Reissue.) No. 13,974; Aug. 31; Gaz. vol. 217; p. 1638.
- Stevens, Arthur M., Derry, N. H. Device for feeding liquid on the selvage of cloth or other material. No. 1,159,729; Nov. 9; Gaz. vol. 220; p. 495.
- Stevens, Burt D., Riverside, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press. No. 1,145,936; July 13; Gaz. vol. 216; p. 355.
- Stevens, Burt D., Riverside, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Delivery mechanism for printing-presses. No. 1,156,940; Oct. 19; Gaz. vol. 219; p. 617.
- Stevens, C. Amory. (See Collins, Caleb G., assignor.)
- Stevens, Carl M. (See Ruble and Stevens.)
- Stevens, Charles B., New York, N. Y. Wagon-brake. No. 1,165,295; Dec. 21; Gaz. vol. 221; p. 981.
- Stevens, Charles C., Saginaw, Mich. Rake. No. 1,133,676; Mar. 30; Gaz. vol. 212; p. 1516.
- Stevens, Charles E., Lenexa, Kans. Insulated rail-joint. No. 1,154,738; Sept. 28; Gaz. vol. 218; p. 931.
- Stevens, Charles F., Chicago, Ill. Fire-brick arch. No. 1,130,345; Mar. 2; Gaz. vol. 212; p. 174.
- Stevens and Company. (See Stevens, Frederick A., assignor.)
- Stevens, Drury B., Pleasant Hill, La. Wire-fence clamp. No. 1,133,192; Mar. 23; Gaz. vol. 212; p. 1306.
- Stevens-Duryea Company. (See Duryea, James F., assignor.)
- Stevens-Duryea Company. (See Lichter, Adolph H., assignor.)
- Stevens, Elbridge W., Baltimore, Md., assignor to Webster Stevens Electric Company, Cleveland, Ohio. Single-spark apparatus for internal-combustion engines. No. 1,128,383; Feb. 16; Gaz. vol. 211; p. 690.
- Stevens, Enoch P., Morgan Park, Ill. Roller-grate. No. 1,127,939; Feb. 9; Gaz. vol. 211; p. 489.
- Stevens, Enoch P., Chicago, Ill. Pallet for drying bricks. No. 1,150,074; Aug. 17; Gaz. vol. 217; p. 732.
- Stevens, Enoch P., Chicago, assignor of one-fourth to J. Harrington, Riverside, Ill. Stoker. No. 1,127,940; Feb. 9; Gaz. vol. 211; p. 489.
- Stevens, Fho S., Ashville, N. Y. Pick. No. 1,148,633; Aug. 3; Gaz. vol. 217; p. 54.
- Stevens, Frank B., Whitesboro, N. Y. Desk. No. 1,156,443; Oct. 12; Gaz. vol. 219; p. 414.
- Stevens, Frank H., Colorado Springs, Colo. Dish-washer. No. 1,139,313; May 11; Gaz. vol. 214; p. 595.
- Stevens, Frank S., Reading, Pa. Base-supported rail-joint. No. 1,145,335; July 6; Gaz. vol. 216; p. 124.
- Stevens, Frank W., Newton, assignor of one-half to A. Hopewell, Wellesley, Mass. Gold-separating mechanism. No. 1,139,143; May 11; Gaz. vol. 214; p. 539.
- Stevens, Fred M., Cambridge, Mass. Safety-grip for circular saws. No. 1,132,129; Mar. 16; Gaz. vol. 212; p. 869.
- Stevens, Frederick A., Providence, R. I., assignor to Stevens and Company, Incorporated. Spectacle-mounting. No. 1,145,711; July 6; Gaz. vol. 216; p. 258.
- Stevens, Frederick C. (See Babcock, Garrison, assignor.)
- Stevens, Frederick C. (See Clement, Edward E., assignor.)
- Stevens, Frederick C. (See Moore, Charles C., assignor.)
- Stevens, Frederick C. (See North, Charles H., assignor.)
- Stevens, Frederick C. (See Smith, Clyde, assignor.)
- Stevens, Frederick C. (See Wright, Joseph L., assignor.)
- Stevens, George E., Lynn, Mass., assignor to General Electric Company. Molding-machine. No. 1,157,967; Oct. 26; Gaz. vol. 219; p. 1042.
- Stevens, Harry, Chesley, Ontario, Canada. Clothes-drier. No. 1,159,606; Nov. 9; Gaz. vol. 220; p. 451.
- Stevens, Henry E., Jr., New York, N. Y. Cabinet for disk records. No. 1,145,712; July 6; Gaz. vol. 216; p. 259.
- Stevens, Horace E., assignor of one-half to L. Stevens and one-fourth to N. Stevens, St. Jacob, Ill. Lamp-burner. No. 1,140,415; May 25; Gaz. vol. 214; p. 1056.
- Stevens, James H., Boston, Mass. Apparatus for intravenous injection of fluids into the body. No. 1,159,127; Nov. 2; Gaz. vol. 220; p. 247.
- Stevens, John C., assignor to Leupold, Voelpel & Co., Portland, Ore. Water-stage recorder. No. 1,163,279; Dec. 7; Gaz. vol. 221; p. 190.
- Stevens, John C., assignor to Leupold, Voelpel & Co., Portland, Ore. Long-distance water-stage recorder. No. 1,163,280; Dec. 7; Gaz. vol. 221; p. 190.

- Stevens, John L., South Bend, Wash. Phonograph. No. 1,132,497; Mar. 16; Gaz. vol. 212; p. 1004.
- Stevens, John W., Rosebank, N. Y. Liquid-hydrocarbon burner. No. 1,127,941; Feb. 9; Gaz. vol. 211; p. 490.
- Stevens, Leo I., Denver, Colo. Machine for crimping pail-covers. No. 1,151,134; Aug. 24; Gaz. vol. 217; p. 1157.
- Stevens, Lillian, *et al.* (See Stevens, Horace F., assignor.)
- Stevens, Nellie, *et al.* (See Stevens, Horace F., assignor.)
- Stevens, Oscar E., New York, N. Y., assignor to General Railway Signal Company. Automatic block-signaling system for electric railways. No. 1,163,182; Dec. 7; Gaz. vol. 221; p. 157.
- Stevens, Ralph P., Stanford, Cal. Clip-punch. No. 1,123,419; Jan. 5; Gaz. vol. 210; p. 76.
- Stevens, Ralph P., Stanford, Cal. Hand-punch. No. 1,146,971; July 20; Gaz. vol. 216; p. 739.
- Stevens, Ray D., San Bernardino, Cal. Internal-combustion engine. No. 1,137,296; Apr. 27; Gaz. vol. 213; p. 1262.
- Stevens Regulator Co. (See Stevens, Willie J., assignor.)
- Stevens, Robert C. (See Hooper and Stevens.)
- Stevens, Robert C., assignor to Skinner Engine Company, Erie, Pa. Engine valve-gear. No. 1,125,204; Jan. 19; Gaz. vol. 210; p. 784.
- Stevens, Robert C., assignor to Skinner Engine Company, Erie, Pa. Steam-superheater. No. 1,132,225; Mar. 16; Gaz. vol. 212; p. 904.
- Stevens, Robert C., assignor to Skinner Engine Company, Erie, Pa. Steam-engine. No. 1,132,226; Mar. 16; Gaz. vol. 212; p. 905.
- Stevens, Robert C., assignor to Skinner Engine Company, Erie, Pa. Steam-engine. No. 1,157,440; Oct. 19; Gaz. vol. 219; p. 796.
- Stevens, Royal A., assignor of one-half to J. F. Gordon, Lowell, Mass. Pile-wire. No. 1,125,410; Jan. 19; Gaz. vol. 210; p. 860.
- Stevens, Thomas F. (See Awalt and Stevens.)
- Stevens, Thomas S., Topeka, Kans., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,152,448; Sept. 7; Gaz. vol. 218; p. 23.
- Stevens, Walter B., Jr., New York, N. Y. Dog-muzzle. No. 1,132,289; Mar. 16; Gaz. vol. 212; p. 929.
- Stevens, Walter L., New York, N. Y. Folding paper box. No. 1,156,444; Oct. 12; Gaz. vol. 219; p. 414.
- Stevens, William B., Trappe, Md. Operating-lever. No. 1,135,737; Apr. 13; Gaz. vol. 213; p. 629.
- Stevens, William C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Fabric-tearing device. No. 1,134,293; Apr. 6; Gaz. vol. 213; p. 77.
- Stevens, William H., St. Louis, Mo. Substitute for gasoline. No. 1,165,462; Dec. 28; Gaz. vol. 221; p. 1077.
- Stevens, William H. T., *et al.* (See Yull, James, assignor.)
- Stevens, William X., Washington, D. C., assignor to E. L. Barton, Jacksonville, Fla. Box-making machine. No. 1,143,089; June 15; Gaz. vol. 215; p. 779.
- Stevens, William X., Washington, D. C., assignor to E. L. Barton, Jacksonville, Fla. Nailing mechanism for box-machines. No. 1,156,109; Oct. 12; Gaz. vol. 219; p. 299.
- Stevens, William X., Washington, D. C., assignor to E. L. Barton, Jacksonville, Fla. Intermittently-revolving mechanism. No. 1,163,789; Dec. 14; Gaz. vol. 221; p. 415.
- Stevens, Willie J., assignor to Stevens Regulator Co., Portland, Me. Boiler feed-water regulator. No. 1,156,941; Oct. 19; Gaz. vol. 219; p. 618.
- Stevenson, Abraham C., assignor of one-half to E. R. Stevenson and one-half to D. W. Hildreth, Jr., Philadelphia, Pa. Hospital appliance. No. 1,157,441; Oct. 19; Gaz. vol. 219; p. 797.
- Stevenson, Arthur W., Manchester, England. Means for fastening and retaining articles of jewelry and the like in postal and other boxes. No. 1,157,733; Oct. 26; Gaz. vol. 219; p. 960.
- Stevenson, Ashton G., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Substitute for printers' brass rules. No. 1,135,145; Apr. 13; Gaz. vol. 213; p. 424.
- Stevenson, Benjamin E. and M. E., Redding, Cal. Rotary engine. No. 1,164,136; Dec. 14; Gaz. vol. 221; p. 537.
- Stevenson, Charles M., Rockford, Ill., assignor to Drew Carrier Company, Waterloo, Wis. Stanchion. No. 1,132,045; Mar. 16; Gaz. vol. 212; p. 839.
- Stevenson, Eleanor R., *et al.* (See Stevenson, Abraham C., assignor.)
- Stevenson, Frederick A., Detroit, Mich., assignor to American Car and Foundry Company, St. Louis, Mo. Strip-ter for punch-machines. No. 1,149,226; Aug. 10; Gaz. vol. 217; p. 365.
- Stevenson, Frederick A., Detroit, Mich., assignor to American Car and Foundry Company, St. Louis, Mo. Camber-punching device. No. 1,164,026; Dec. 14; Gaz. vol. 221; p. 497.
- Stevenson, Frederick A., Detroit, Mich., assignor to American Car and Foundry Company, St. Louis, Mo. Channel-punching machine. No. 1,164,027; Dec. 14; Gaz. vol. 221; p. 498.
- Stevenson, Frederick A., Detroit, Mich., assignor to American Car and Foundry Company, St. Louis, Mo. Punching-machine. No. 1,164,028; Dec. 14; Gaz. vol. 221; p. 498.
- Stevenson, Fredric E., and R. Brown, Healdsburg, Cal. Pulverizer. No. 1,123,613; Jan. 5; Gaz. vol. 210; p. 142.
- Stevenson, John F., Tower Hill, Ohio. Weather-strip. No. 1,151,973; Aug. 31; Gaz. vol. 217; p. 1492.
- Stevenson, John H., and F. Knowlson, Ann Arbor, Mich.; said Stevenson assignor to said Knowlson. Leaf-separator for springs. No. 1,142,280; June 8; Gaz. vol. 215; p. 457.
- Stevenson, Mabel L., North Vancouver, British Columbia, Canada. Sleeping-bag. No. 1,130,116; Mar. 2; Gaz. vol. 212; p. 95.
- Stevenson, Mary E. (See Stevenson, Benjamin E. and M. E.)
- Stevenson, Samuel P., Chester, Pa. Closure. No. 1,146,112; July 13; Gaz. vol. 216; p. 417.
- Stevenson, Thomas. (See Ringrose and Stevenson.)
- Stevenson, William A., Northampton, Mass. Fluid-flow controller. No. 1,146,457; July 13; Gaz. vol. 216; p. 541.
- Stevenson, William H., assignor to Philadelphia Holding Company, Philadelphia, Pa. Car-truck. No. 1,142,379; June 8; Gaz. vol. 215; p. 491.
- Stevenson, William H., assignor to Philadelphia Holding Company, Philadelphia, Pa. Car-truck. No. 1,149,415; Aug. 10; Gaz. vol. 217; p. 434.
- Stevenson, William J., P. A. Fuchs, and W. Hiecke, Jr., Milwaukee, Wis.; said Hiecke, Jr., and said Fuchs assignors of one-twelfth of their right to said Stevenson. Sewer-cleaner. No. 1,163,624; Dec. 7; Gaz. vol. 221; p. 311.
- Steventon, Thomas, assignor to American Graphophone Company, Bridgeport, Conn. Sifting mechanism for making disk sound-records or the like. No. 1,132,806; Mar. 23; Gaz. vol. 212; p. 1167.
- Stever, Chester N., Mechanics Valley, Pa. Gas-engine. No. 1,144,921; June 29; Gaz. vol. 215; p. 1465.
- Steward, John F., Chicago, Ill., assignor to International Harvester Corporation. Traction-engine. No. 1,133,758; Mar. 30; Gaz. vol. 212; p. 1544.
- Steward, William J. (See Shierk, Dearell D., assignor.)
- Stewart, Adam N., North Bay, Ontario, Canada. Hydrocarbon rotary engine. No. 1,131,803; Mar. 16; Gaz. vol. 212; p. 752.
- Stewart, Albert E., Franklin, N. H., assignor to Acme Knitting Machine & Needle Company. Cam-cylinder for knitting-machines. No. 1,131,619; Mar. 9; Gaz. vol. 212; p. 650.
- Stewart, Albert E., Franklin, N. H., assignor to Acme Knitting Machine & Needle Company. Knitting-machine. No. 1,152,373; Aug. 31; Gaz. vol. 217; p. 1632.
- Stewart, Alfred C., Los Angeles, Cal. Controlling device. No. 1,161,265; Nov. 23; Gaz. vol. 220; p. 1139.
- Stewart, Ames L., L. O. Hawkins, and A. E. Mosher, Madera, Pa. Automatic fire-alarm. No. 1,123,614; Jan. 5; Gaz. vol. 210; p. 142.
- Stewart, Andrew M., assignor to The National Supply Company, Toledo, Ohio. Combination sucker-rod socket. No. 1,123,615; Jan. 5; Gaz. vol. 210; p. 143.
- Stewart, Andrew M., assignor to The National Supply Company, Toledo, Ohio. Forming ribbed metal pipes. No. 1,123,616; Jan. 5; Gaz. vol. 210; p. 143.
- Stewart, Andrew M., assignor to The National Supply Company, Toledo, Ohio. Making tubing-rings. No. 1,152,858; Sept. 7; Gaz. vol. 218; p. 176.
- Stewart, Annie. (See Stewart, James S., assignor.)
- Stewart, Benjamin F., Chicago, Ill. Internal-combustion engine. No. 1,146,365; July 13; Gaz. vol. 216; p. 505.
- Stewart, Burt C., assignor to Murphy Iron Works, Detroit, Mich. Driving mechanism for stoker-boxes. No. 1,149,416; Aug. 10; Gaz. vol. 217; p. 435.
- Stewart, Charles A., Rollinsford, N. H. Cloth-folding machine. No. 1,135,630; Apr. 13; Gaz. vol. 213; p. 591.
- Stewart, Charles A., Andover, Mass. Conveyor. No. 1,135,631; Apr. 13; Gaz. vol. 213; p. 592.
- Stewart, Charles E. (See Higley, Pratt H., assignor.)
- Stewart, Charles F., Nashville, Kans. Merchandise-cabinet. No. 1,131,283; Mar. 9; Gaz. vol. 212; p. 534.
- Stewart, Charles F., Nashville, Kans. Display-rack. No. 1,138,995; May 11; Gaz. vol. 214; p. 486.
- Stewart, Christopher D. (See Stewart, Edward S. and C. D.)
- Stewart, David, Bessemer, assignor of one-fourth to H. Lamar, Birmingham, one-fourth to T. Lamar, and one-fourth to N. J. Stuart, Bessemer, Ala. Cranking device. No. 1,134,974; Apr. 6; Gaz. vol. 213; p. 317.
- Stewart, David M., Calgary, Alberta, Canada. Switch for overhead or surface rails or trackage. No. 1,162,320; Nov. 30; Gaz. vol. 220; p. 1554.
- Stewart, Edward S. and C. D., Ottawa, Ill. Telephone. No. 1,138,698; May 11; Gaz. vol. 214; p. 379.
- Stewart, Edward S. and C. D., Ottawa, Ill. Testing device. No. 1,161,082; Nov. 23; Gaz. vol. 220; p. 1072.
- Stewart, Edwin F., Woodcliff, and R. P. Perry, Montclair, N. J., assignors to Barrett Manufacturing Company, New York, N. Y. Burning fuel. No. 1,134,421; Apr. 6; Gaz. vol. 213; p. 123.
- Stewart, Elmer U., Sharon, Pa. Explosion-engine. No. 1,152,859; Sept. 7; Gaz. vol. 218; p. 177.
- Stewart, Emmor J., New York, N. Y. Floor-cleaning machine. No. 1,128,384; Feb. 16; Gaz. vol. 211; p. 691.

Alphabetical list of patentees—Continued.

- Stewart, Francis A., assignor of one-half to W. Ellis, Hamilton, Ontario, Canada. Bearing for fast-running wheels. No. 1,161,905; Nov. 30; Gaz. vol. 220; p. 1408.
- Stewart, Francis R., Crookston, Minn. Combined anvil, vise, and drill. No. 1,129,752; Feb. 23; Gaz. vol. 211; p. 1201.
- Stewart, Harold, assignor to Stewart-Kelly Automatic Drain Valve Company, Walla Walla, Wash. Thermal valve. No. 1,161,013; Nov. 16; Gaz. vol. 220; p. 1003.
- Stewart, Henry M., Philadelphia, Pa. Mechanical movement. No. 1,145,445; July 6; Gaz. vol. 216; p. 164.
- Stewart, James. (See Colby and Stewart.)
- Stewart, James H., York, Pa. Crypt. No. 1,148,200; July 27; Gaz. vol. 216; p. 1198.
- Stewart, James S., assignor to A. Stewart, New York, N. Y. Device for temporarily retaining conductors. No. 1,142,282; June 8; Gaz. vol. 215; p. 457.
- Stewart, John, assignor to The Simplex Concrete Piling Company, Washington, D. C. Making piles. No. 1,157,442; Oct. 19; Gaz. vol. 219; p. 797.
- Stewart, John, assignor to The Simplex Concrete Piling Company, Washington, D. C. Tapered-pile form. No. 1,157,443; Oct. 19; Gaz. vol. 219; p. 797.
- Stewart, John, Norwood, Ohio, assignor to The Simplex Concrete Piling Company, Washington, D. C. Placing and driving concrete piles. No. 1,157,444; Oct. 19; Gaz. vol. 219; p. 798.
- Stewart, John E., and W. A. Russell, Winnipeg, Manitoba, Canada. Ticket-clip. No. 1,151,061; Aug. 24; Gaz. vol. 217; p. 1133.
- Stewart, John H., Lynn, Mass. Skiing-machine. No. 1,142,281; June 8; Gaz. vol. 215; p. 457.
- Stewart, John H., Jamaica, N. Y. Three-point door-bolt. No. 1,146,366; July 13; Gaz. vol. 216; p. 506.
- Stewart, John K., Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation. Recording-odometer. No. 1,132,885; Mar. 23; Gaz. vol. 212; p. 1194.
- Stewart, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer drive-gear. No. 1,148,125; July 27; Gaz. vol. 216; p. 1173.
- Stewart, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Drive-gearing for shaft-speed indicators. No. 1,152,569; Sept. 7; Gaz. vol. 218; p. 70.
- Stewart, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Air-pump. No. 1,158,080; Oct. 26; Gaz. vol. 219; p. 1081.
- Stewart, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Counter-train. No. 1,158,579; Nov. 2; Gaz. vol. 220; p. 60.
- Stewart, John K., assignor to Stewart Manufacturing Company, Chicago, Ill. Pencil-sharpener. No. 1,160,091; Nov. 9; Gaz. vol. 220; p. 622.
- Stewart, John W. (See Smith, William H., assignor.)
- Stewart, John W., Laporte City, Iowa. Drain-head. No. 1,150,400; Aug. 17; Gaz. vol. 217; p. 848.
- Stewart-Kelly Automatic Drain Valve Company. (See Stewart, Harold, assignor.)
- Stewart, Lyman, Los Angeles, assignor to Union Oil Company of California, Oleum, Cal. Process of and apparatus for distilling petroleum. No. 1,163,570; Dec. 7; Gaz. vol. 221; p. 291.
- Stewart, Lyman C., and M. A. Quinn, Roanoke, Va. Core for molds. No. 1,161,356; Nov. 23; Gaz. vol. 220; p. 1172.
- Stewart, Lyman C., and M. A. Quinn, Roanoke, Va. Mold for building poured concrete structures. No. 1,163,480; Dec. 7; Gaz. vol. 221; p. 260.
- Stewart Manufacturing Company, The. (See Schroder, Fred E., assignor.)
- Stewart Manufacturing Company. (See Stewart, John K., assignor.)
- Stewart, Marvin. (See Kobs and Stewart.)
- Stewart, Perez M., trustee. (See Hart, Thomas M., assignor.)
- Stewart, Robert, Logan, Utah. Producing acid monocalcium phosphate. No. 1,137,806; May 4; Gaz. vol. 214; p. 30.
- Stewart, Robert P. (See Early, James W., assignor.)
- Stewart, Thereon S., Toledo, Ohio. Interchangeable collar-button and skirt-supporter. No. 1,157,818; Oct. 26; Gaz. vol. 219; p. 983.
- Stewart, Thomas, Philadelphia, Pa. Locomotive-tender. No. 1,157,445; Oct. 19; Gaz. vol. 219; p. 798.
- Stewart, Thomas M., Montréal, Quebec, Canada. Valve. No. 1,132,886; Mar. 23; Gaz. vol. 212; p. 1194.
- Stewart, Ulysses G., Paris, Ill. Nose-ring for live stock. No. 1,136,496; Apr. 20; Gaz. vol. 213; p. 938.
- Stewart, Walter A., Swift Current, Saskatchewan, Canada. Plow. No. 1,129,245; Feb. 23; Gaz. vol. 211; p. 1028.
- Stewart, Walter P., Warwood, W. Va. Fire-extinguisher. No. 1,158,580; Nov. 2; Gaz. vol. 220; p. 60.
- Stewart-Warner Speedometer Corporation. (See Burton, Charles S., assignor.)
- Stewart-Warner Speedometer Corporation. (See Fischer, Theodore J., assignor.)
- Stewart-Warner Speedometer Corporation. (See Kocourek, Henry, assignor.)
- Stewart-Warner Speedometer Corporation. (See Larson, Edward A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Leathers, Ward G., assignor.)
- Stewart-Warner Speedometer Corporation. (See Ross, Frank A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Stewart, John K., assignor.)
- Stewart-Warner Speedometer Corporation. (See Swanson, Ernest J., assignor.)
- Stewart-Warner Speedometer Corporation. (See Thompson, Edward M., assignor.)
- Stewart-Warner Speedometer Corporation. (See Welch, Horace H., assignor.)
- Stewart, William A., Madison, Wis. Ice-pick. No. 1,136,561; Apr. 20; Gaz. vol. 213; p. 961.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-slashing machine. No. 1,124,182; Jan. 5; Gaz. vol. 210; p. 335.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,164,885; Dec. 21; Gaz. vol. 221; p. 837.
- Stewart, William G., Chester, Pa. Woven fabric. No. 1,141,665; June 1; Gaz. vol. 215; p. 205.
- Stewart, William G., Elkins Park, Pa. Needle-loom. No. 1,164,137; Dec. 14; Gaz. vol. 221; p. 537.
- Stewart, William H., Kansas City, assignor, by mesne assignments, to F. Warner, Bonner Springs, Kans. Baling-press. No. 1,124,354; Jan. 12; Gaz. vol. 210; p. 446.
- Stewart, William J. (See Linden, Lucien, assignor.)
- Stewart, William W., Muscatine, Iowa. Ironing-board. No. 1,132,498; Mar. 16; Gaz. vol. 212; p. 1005.
- Stewart, William W., Muscatine, Iowa. Ironing-board. No. 1,137,172; Apr. 27; Gaz. vol. 213; p. 1215.
- Steynis, Jan, Bay Shore, N. Y. Process of and apparatus for producing ozone. No. 1,162,415; Nov. 30; Gaz. vol. 220; p. 1584.
- Steynis, Jan, New York, N. Y., assignor to Steynis Ozone Company. Anilin-black dyeing. No. 1,157,908; Oct. 26; Gaz. vol. 219; p. 1022.
- Steynis Ozone Company. (See Freet, William O., assignor.)
- Steynis Ozone Company. (See Steynis, Jan, assignor.)
- Stich, Fredric A., Mount Vernon, Ill. Ladder-making machine. No. 1,145,713; July 6; Gaz. vol. 216; p. 259.
- Stichel, Rudolph H. (See Montgomery, Gustavus A., assignor.)
- Stichler, Charles, Philadelphia, Pa. Soldering-iron. No. 1,134,165; Apr. 6; Gaz. vol. 213; p. 29.
- Stickel, Harry C., Star Junction, Pa. Journal-box for railway-cars. No. 1,157,446; Oct. 19; Gaz. vol. 219; p. 798.
- Stickle, Cole, Indianapolis, Ind. Regulating apparatus for drying sheets of paper, cloth, and the like. No. 1,127,540; Feb. 9; Gaz. vol. 211; p. 347.
- Stickle, Cole, Indianapolis, Ind. Thermostatic radiator-valve. No. 1,140,083; May 18; Gaz. vol. 214; p. 905.
- Stickle, Cole, Indianapolis, Ind. Steam-trap. No. 1,143,329; June 15; Gaz. vol. 215; p. 864.
- Stickley, Marcus A., Strasburg, Va. Farm-gate. No. 1,136,734; Apr. 20; Gaz. vol. 213; p. 1023.
- Stickley, Marcus A., Strasburg, Va. Gate-operating means. No. 1,141,849; June 1; Gaz. vol. 215; p. 265.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,124,967; Jan. 12; Gaz. vol. 210; p. 664.
- Stickney, Burnham C., Elizabeth, N. J., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,125,205; Jan. 19; Gaz. vol. 210; p. 785.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,139,080; May 11; Gaz. vol. 214; p. 517.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,158,408; Oct. 26; Gaz. vol. 219; p. 1197.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,163,790; Dec. 14; Gaz. vol. 221; p. 416.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,163,791; Dec. 14; Gaz. vol. 221; p. 416.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,163,869; Dec. 14; Gaz. vol. 221; p. 443.
- Stickney, Charles A., St. Paul, Minn. Electric generator. No. 1,143,662; June 22; Gaz. vol. 215; p. 1003.
- Stickney, Francis H., assignor of one-half to H. W. Lazier, Minneapolis, Minn. Internal-combustion engine. No. 1,126,661; Jan. 26; Gaz. vol. 210; p. 1341.
- Stickney, Mellen L. (See Cooke, Fred A., assignor.)
- Stieb, Arthur. (See Meyer and Stieb.)
- Stieb, Arthur, East St. Louis, Ill. Rotary engine. No. 1,135,632; Apr. 13; Gaz. vol. 213; p. 592.

- Stiefel, Frank C., assignor to The Curtis Publishing Company, Philadelphia, Pa. Towel-rack. No. 1,141,664; June 1; Gaz. vol. 215; p. 205.
- Stiefel, Frank C., assignor to The Curtis Publishing Company, Philadelphia, Pa. Brush-holder. No. 1,143,090; June 15; Gaz. vol. 215; p. 779.
- Stiefel, Henry C., assignor of one-half to A. M. Neeper, Pittsburgh, Pa. Batch for semi-opaque, semi-translucent glass. No. 1,153,353; Sept. 14; Gaz. vol. 218; p. 388.
- Stieglmeyer, Theodor, Hanover-Wülfel, Germany. Device for dressing castings and the like. No. 1,152,570; Sept. 7; Gaz. vol. 218; p. 71.
- Stieglmeyer, Theodor, Hanover-Wülfel, Germany. Abrading and polishing apparatus. No. 1,158,327; Oct. 26; Gaz. vol. 219; p. 1168.
- Stieger, Jakob M., Humble, Tex. Pumping-jack. No. 1,128,260; Feb. 9; Gaz. vol. 211; p. 599.
- Stiegler, Oscar M., Cincinnati, Ohio. Dispensing apparatus. No. 1,163,571; Dec. 7; Gaz. vol. 221; p. 292.
- Stieler, Martin, Chicago, Ill. Concrete-form. No. 1,164,319; Dec. 14; Gaz. vol. 221; p. 599.
- Stiening, Frederick C. (See Macbeth and Stiening.)
- Stiers, Frank A., assignor of one-half to P. R. Walsh, St. Louis, Mo. Valve for street-sprinklers. No. 1,156,326; Oct. 12; Gaz. vol. 219; p. 370.
- Stiers, Frank A., assignor of one-half to P. R. Walsh, St. Louis, Mo. Street-sprinkler. No. 1,156,327; Oct. 12; Gaz. vol. 219; p. 371.
- Stievenard, Fernand A., Grand Forks, British Columbia, Canada. Cattle-guard. No. 1,131,284; Mar. 9; Gaz. vol. 212; p. 534.
- Stifel, Otto F., *et al.* (See Cowgill, Orph W., assignor.)
- Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for covering boot and shoe straps. No. 1,127,541; Feb. 9; Gaz. vol. 211; p. 347.
- Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-strap pack. No. 1,127,542; Feb. 9; Gaz. vol. 211; p. 348.
- Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-machine. No. 1,131,746; Mar. 16; Gaz. vol. 212; p. 729.
- Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,132,630; Mar. 23; Gaz. vol. 212; p. 1101.
- Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grading-machine. No. 1,163,115; Dec. 7; Gaz. vol. 221; p. 132.
- Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Punching-machine. No. 1,163,116; Dec. 7; Gaz. vol. 221; p. 133.
- Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting and stapling machine. No. 1,163,598; Dec. 7; Gaz. vol. 221; p. 302.
- Stiles, Charles, Altoona, Kans. Automobile radiator ornament. No. 1,165,296; Dec. 21; Gaz. vol. 221; p. 981.
- Stiles, Solon S., Middletown, Conn. Buckle attachment. No. 1,123,947; Jan. 5; Gaz. vol. 210; p. 255.
- Still, Charles E. (See Vaughan, Frederick P., assignor.)
- Still, George M., New York, N. Y. Train-fusee discharger. No. 1,132,631; Mar. 23; Gaz. vol. 212; p. 1102.
- Still, Isaac F., Ossining, N. Y. Game apparatus. No. 1,132,403; Mar. 16; Gaz. vol. 212; p. 969.
- Still, John A., *et al.* (See Bryant, John M. C., assignor.)
- Still, Sun R., Hot Springs, Ark. Railway-tie and clamp. No. 1,136,288; Apr. 20; Gaz. vol. 213; p. 863.
- Still, William J., London, England. Internal-combustion engine. No. 1,145,391; July 6; Gaz. vol. 216; p. 145.
- Still, William J., London, England. Internal-combustion engine. No. 1,145,392; July 6; Gaz. vol. 216; p. 145.
- Stille, Curt, Zehlendorf-West, near Berlin, Germany. Electro-pneumatic sound-box. No. 1,132,404; Mar. 16; Gaz. vol. 212; p. 970.
- Stille, Curt, Zehlendorf-West, near Berlin, Germany. Image-transformer for distance photography. No. 1,141,850; June 1; Gaz. vol. 215; p. 266.
- Stille, Curt, Zehlendorf-West, near Berlin, Germany. Electro-optical cell. No. 1,148,936; Aug. 3; Gaz. vol. 217; p. 160.
- Stille, Curt, Zehlendorf-West, near Berlin, Germany. Telegraph or telephone relay. No. 1,154,139; Sept. 21; Gaz. vol. 218; p. 698.
- Stille, Curt, Zehlendorf-West, near Berlin, Germany. Electrical connection for electric relays. No. 1,160,547; Nov. 16; Gaz. vol. 220; p. 837.
- Stille, Curt, Friedenau, near Berlin, Germany. Electric security device. No. 1,159,128; Nov. 2; Gaz. vol. 220; p. 248.
- Stillman, Marshall, New York, N. Y. Boxing-glove. No. 1,146,742; July 13; Gaz. vol. 216; p. 638.
- Stillwagon, John H., Richmond Hill, N. Y. Hose-rack. No. 1,150,075; Aug. 17; Gaz. vol. 217; p. 732.
- Stillwell, Frank, Brooklyn, N. Y. Safety attachment for scaffolds. No. 1,148,872; Aug. 3; Gaz. vol. 217; p. 138.
- Stillwell, Lewis B. (See Van Vleck, John, assignor.)
- Stimmel, Samuel. (See Grimm, Jacob, assignor.)
- Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Filling-end controller for looms. No. 1,132,227; Mar. 16; Gaz. vol. 212; p. 905.
- Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Filling-end controller for looms. No. 1,147,904; July 27; Gaz. vol. 216; p. 1092.
- Stimpson, Edwin B., New York, assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Bag. No. 1,138,699; May 11; Gaz. vol. 214; p. 380.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Washer. No. 1,143,091; June 15; Gaz. vol. 215; p. 779.
- Stimpson Scale & Electric Company, The. (See Stimpson, Walter F., assignor.)
- Stimpson, Walter F., Detroit, assignor to The Stimpson Scale & Electric Company, Northville, Mich. Scale. No. 1,137,096; Apr. 27; Gaz. vol. 213; p. 1188.
- Stinchcomb, Alfred A., Annapolis, Md. Fire-escape. No. 1,135,738; Apr. 13; Gaz. vol. 213; p. 629.
- Stine, Charles M., Chester, Pa., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 1,143,330; June 15; Gaz. vol. 215; p. 864.
- Stine, Edward L., Buffalo, N. Y. Cold-proof service-tray. No. 1,124,968; Jan. 12; Gaz. vol. 210; p. 665.
- Stine, John, Beaumont, Tex. Mechanical movement. No. 1,160,009; Nov. 9; Gaz. vol. 220; p. 595.
- Stine, Walter L., Niles, Cal. Automatic grease-cup. No. 1,142,283; June 8; Gaz. vol. 215; p. 457.
- Stinson, James C., Bradford, Pa. Deep-well packer. No. 1,136,904; Apr. 20; Gaz. vol. 213; p. 1082.
- Stires, John D. (See Wing and Stires.)
- Stiriz, Charles, New York, N. Y. Internal-combustion engine. No. 1,128,913; Feb. 16; Gaz. vol. 211; p. 876.
- Stirling, James H., London, England, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Wilhelmshöhe, near Cassel, Germany. Steam-superheater. No. 1,129,915; Mar. 2; Gaz. vol. 212; p. 28.
- Stirn, Nicholas, Chicago, Ill. Boat and propeller therefor. No. 1,133,193; Mar. 23; Gaz. vol. 212; p. 1307.
- Stirton, James W., Detroit, Mich. Hydrocarbon-burner. No. 1,161,546; Nov. 23; Gaz. vol. 220; p. 1238.
- Stitch-Address Company, The. (See Cox, Percival P., assignor.)
- Stites, Charles W., New York, N. Y. Closing device for doors. No. 1,132,405; Mar. 16; Gaz. vol. 212; p. 970.
- Stites, Samuel T., assignor to Burson Manufacturing Company, Rockford, Ill. Knitting-machine. No. 1,159,429; Nov. 9; Gaz. vol. 220; p. 387.
- Stitson, Robert B. (See Ferguson and Stitson.)
- Stitt, Homer C., Pattonsburg, Mo. Cranking device for motor-vehicles. No. 1,129,026; Feb. 16; Gaz. vol. 211; p. 916.
- Stitzel, Arthur P., Louisville, Ky. Non-alcoholic beverage. No. 1,149,700; Aug. 10; Gaz. vol. 217; p. 538.
- Stivers, Jackson, San Francisco, Cal. Gage for printing-presses. No. 1,163,481; Dec. 7; Gaz. vol. 221; p. 261.
- Stivers, Jake M., and A. C. Enoch, Oklahoma, Okla. Sharpener for razor-blades. No. 1,135,633; Apr. 13; Gaz. vol. 213; p. 593.
- Stober, Franklin I. (See Stroud, John J., assignor.)
- Stober, Wilhelm. (See Müller and Stober.)
- Stobie, John W., Madison, Me. Motor-driven sleigh. No. 1,156,110; Oct. 12; Gaz. vol. 219; p. 299.
- Stobie, William H., Waterville, Me., assignor to Hollingsworth & Whitney Company, Boston, Mass. Apparatus for disintegrating fibrous material used in the manufacture of paper-pulp. (Reissue.) No. 13,919; May 18; Gaz. vol. 214; p. 998.
- Stobie, William H., Waterville, Me., assignor to Hollingsworth & Whitney Company, Boston, Mass. Apparatus for disintegrating fibrous material. No. 1,165,033; Dec. 21; Gaz. vol. 221; p. 889.
- Stock, August, and F. Heim, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Dyestuffs of the triphenylmethane series and making same. (Reissue.) No. 13,969; Aug. 24; Gaz. vol. 217; p. 1310.
- Stock, Bane, New Haven, Conn. Hinge-clamp. No. 1,145,521; July 6; Gaz. vol. 216; p. 191.
- Stock, Ephraim, Hamsfork, Wyo. Nut-lock. No. 1,129,753; Feb. 23; Gaz. vol. 211; p. 1201.
- Stock, Friedrich. (See Kastner and Stock.)
- Stock, Friedrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake for barrel-recoil guns. No. 1,159,543; Nov. 9; Gaz. vol. 220; p. 427.
- Stock, Hugh E. (See Porter, Lewis E., assignor.)
- Stock, Henry W., Erie, Pa., assignor to General Electric Company. Radiator for motor-cars. No. 1,154,072; Sept. 21; Gaz. vol. 218; p. 675.
- Stock, John, Dunton, assignor to Interstate Electric Novelty Company, New York, N. Y. Electric pocket-lamp. No. 1,158,081; Oct. 26; Gaz. vol. 219; p. 1082.
- Stock, Julius A., assignor to W. C. Ritchie & Company, Chicago, Ill. Squeeze mechanism for labeling-machines. No. 1,128,543; Feb. 16; Gaz. vol. 211; p. 747.
- Stock, Julius A., assignor to W. C. Ritchie & Company, Chicago, Ill. Box-delivering mechanism. No. 1,141,501; June 1; Gaz. vol. 215; p. 148.
- Stock, Julius A., assignor to W. C. Ritchie & Company, Chicago, Ill. Box-assembling machine. No. 1,141,502; June 1; Gaz. vol. 215; p. 148.
- Stock, Julius A., and M. J. Milmo, assignors to W. C. Ritchie & Company, Chicago, Ill. Box-shaping machine. No. 1,132,632; Mar. 23; Gaz. vol. 212; p. 1102.

Alphabetical list of patentees—Continued.

- Stock Motorpflug Gesellschaft Mit Beschränkter Haftung. (See Gleiche, Carl, assignor.)
- Stock Motorpflug Gesellschaft mit Beschränkter Haftung. (See Stock, Robert, assignor.)
- Stock, Nicholas, Kingston, N. Y. Furniture-pad. No. 1,152,235; Aug. 31; Gaz. vol. 217; p. 1582.
- Stock-Quotation Telegraph Company. (See Hiltz, George S., assignor.)
- Stock, Robert, deceased; H. Müller, executor, assignor to Stock Motorpflug Gesellschaft mit Beschränkter Haftung, Berlin, Germany. Motor-plow. No. 1,152,374; Aug. 31; Gaz. vol. 217; p. 1632.
- Stockburger, Charles W. (See Faires and Stockburger.)
- Stockburger, Charles W., Allen, Tex. Lock. No. 1,165,813; Dec. 28; Gaz. vol. 221; p. 1200.
- Stöckemann, Ernst, Berlin, Germany. Steering and propelling mechanism for vessels. No. 1,131,287; Mar. 9; Gaz. vol. 212; p. 535.
- Stocker, Elbert S., and F. A. Stacy, Danbury, Conn. Hat-sizing machine. No. 1,156,942; Oct. 19; Gaz. vol. 219; p. 618.
- Stocker, Florian W., Hoboken, N. J. Perishable dividing-plate. No. 1,131,872; Mar. 16; Gaz. vol. 212; p. 776.
- Stocker, Robert, Brooklyn, N. Y. Pipe-lining. No. 1,153,724; Sept. 14; Gaz. vol. 218; p. 521.
- Stockhausen, Hans, Crefeld, and R. Gruhl, Charlottenburg, Germany. Manufacturing condensation products from formaldehyde and phenol. No. 1,150,642; Aug. 17; Gaz. vol. 217; p. 933.
- Stockhill, William. (See Coss and Stockhill.)
- Stocking, Charles H., Audubon, Iowa. Poultry-feeder. No. 1,148,873; Aug. 3; Gaz. vol. 217; p. 138.
- Stocking, Charles H., Audubon, Iowa. Hog-feeder. No. 1,154,073; Sept. 21; Gaz. vol. 218; p. 675.
- Stocking, Frank L., San Francisco, Cal. Dispensing-machine. No. 1,165,034; Dec. 21; Gaz. vol. 221; p. 889.
- Stocking, Milton D., Lindenwood, Ill. Feed-trough. No. 1,126,907; Feb. 2; Gaz. vol. 211; p. 85.
- Stockland, Charles K., Minneapolis, Minn. Grading-machine. No. 1,123,420; Jan. 5; Gaz. vol. 210; p. 76.
- Stockland, Charles K., Minneapolis, Minn. Grading-machine. No. 1,126,117; Jan. 26; Gaz. vol. 210; p. 1143.
- Stockman, Henry, et al. (See Brown, Henry C., assignor.)
- Stockmann, Peter J. A., St. Louis, Mo. Molded wall and column structure. No. 1,131,437; Mar. 9; Gaz. vol. 212; p. 587.
- Stocks, Harris L., Kirkcaldy, Scotland. Electric signaling apparatus for ships' telegraphs and like purposes. No. 1,131,168; Mar. 9; Gaz. vol. 212; p. 493.
- Stockstrom, Louis, assignor to American Stove Company, St. Louis, Mo. Forming pipe-taps. No. 1,146,664; July 13; Gaz. vol. 216; p. 612.
- Stockstrom, Louis, assignor to American Stove Company, St. Louis, Mo. Oil-burner. No. 1,154,452; Sept. 21; Gaz. vol. 218; p. 806.
- Stockton, Earl K., Monessen, Pa. Loading device. No. 1,129,432; Feb. 23; Gaz. vol. 211; p. 1093.
- Stockton, Elmer E., Bristol, Conn. Cigar-cutter crown for watches. No. 1,138,256; May 4; Gaz. vol. 214; p. 186.
- Stockton, Lewis. (See Perkins, Frank C., assignor.)
- Stockton, William E., Alexandria, Ind. Screw-holding screw driver and starter. No. 1,161,357; Nov. 23; Gaz. vol. 220; p. 1172.
- Stockum, Henry J., New York, N. Y. Disk marker for agricultural purposes. No. 1,126,118; Jan. 26; Gaz. vol. 210; p. 1144.
- Stockum, Louis J. (See McCurley, James W., assignor.)
- Stockwell, C. H., Jr. (See Klegler, John, assignor.)
- Stockwell, Frank E. (See Stockwell, John A., assignor.)
- Stockwell, Herbert C., Los Angeles, Cal. Time-lock attachment. No. 1,147,905; July 27; Gaz. vol. 216; p. 1092.
- Stockwell, John A., Lake Charles, La., assignor to F. E. Stockwell, Paxton, Nebr. Device for closing windows. No. 1,124,969; Jan. 12; Gaz. vol. 210; p. 665.
- Stockwell, William R., Irvington, N. Y. Liquid-heater. No. 1,128,823; Feb. 16; Gaz. vol. 211; p. 844.
- Stocum, Albert P., Minneapolis, Minn. Holder for milk-bottles. No. 1,163,044; Dec. 7; Gaz. vol. 221; p. 108.
- Stoddard, Edgar R., Detroit, Mich. Metal-working tool. No. 1,149,417; Aug. 10; Gaz. vol. 217; p. 435.
- Stoddard, Elizabeth C., et al. (See Barratt, William T., assignor.)
- Stoddard, Elwie F., assignor of one-half to R. H. Minns, San Francisco, Cal. Antirattling door-lock. No. 1,147,459; July 20; Gaz. vol. 216; p. 910.
- Stoddard, James B. (See Hammond, Robert O., assignor.)
- Stoddard, John, Wilmington, Del. Bearing. No. 1,129,916; Mar. 2; Gaz. vol. 212; p. 29.
- Stoddard, Lewis S., and B. Goldsmith, Lisbon, Ohio. Apparatus for coating sheet, plate, and rolled metal. No. 1,142,856; June 15; Gaz. vol. 215; p. 696.
- Stoddard, Maud W., Minneapolis, Minn. Hair-curler. No. 1,157,447; Oct. 19; Gaz. vol. 219; p. 799.
- Stoddard, Merchant, Chehalis, Wash. Boiler. No. 1,149,303; Aug. 10; Gaz. vol. 217; p. 394.
- Stoddard, Thomas G., assignor to The American Postal Machines Company, Boston, Mass. Mail-marking machine. No. 1,152,347; Aug. 31; Gaz. vol. 217; p. 1621.
- Stodgell, James A., Winnipeg, Manitoba, Canada. Non-refillable bottle. No. 1,134,242; Apr. 6; Gaz. vol. 213; p. 58.
- Stoebel, Carl, Würzburg, Germany. Eyeletting apparatus. No. 1,126,908; Feb. 2; Gaz. vol. 211; p. 85.
- Stoebel, Edmund H., Madison, Wis. Corn-planting machine. No. 1,145,714; July 6; Gaz. vol. 216; p. 260.
- Stoehr, John J., Brooklyn, and F. H. Sauermann, New York, N. Y. Projectile. No. 1,139,916; May 18; Gaz. vol. 214; p. 846.
- Stoehr, Walter H., Cheney, Kans. Fountain-brush. No. 1,135,739; Apr. 13; Gaz. vol. 213; p. 630.
- Stoeltzlen, Leo V. (See Ver Planck and Stoeltzlen.)
- Stoepel, F. S., et al. trustees. (See Finlayson, Alexander W., assignor.)
- Stoetzer, William A., Wheeling, W. Va. Material for binding plaster to concrete surfaces. No. 1,152,860; Sept. 7; Gaz. vol. 218; p. 177.
- Stoff, Hayman, New York, N. Y. Lady's skirt. No. 1,126,119; Jan. 26; Gaz. vol. 210; p. 1144.
- Stoffel, Simon H., and H. J. Janssen, Delft, Netherlands. Reversible coupling. No. 1,157,968; Oct. 26; Gaz. vol. 219; p. 1043.
- Stogsdill, Benjamin F., San Francisco, Cal. Pen-holding device. No. 1,141,851; June 1; Gaz. vol. 215; p. 266.
- Stohler, Virgil, Conneaut, Ohio. Swing. No. 1,156,189; Oct. 12; Gaz. vol. 219; p. 325.
- Stoiber, Frank J., Grafton, Wis. Glove. No. 1,147,460; July 20; Gaz. vol. 216; p. 911.
- Stoik, Henry E., and J. E. Fish, Rice Lake, Wis. Silo-heating system. No. 1,166,274; Dec. 28; Gaz. vol. 221; p. 1367.
- Stoker, Alfred W., London, England. Machine for labeling bottles, cans, canisters, and the like. No. 1,148,201; July 27; Gaz. vol. 216; p. 1198.
- Stokes, Arthur H., Detroit, Mich. Form for front and rear of automobile-tops. No. 1,144,874; June 29; Gaz. vol. 215; p. 1451.
- Stokes, Arthur H., Detroit, Mich. Constructing bows for vehicle-tops. No. 1,149,965; Aug. 10; Gaz. vol. 217; p. 633.
- Stokes, Charles E., Trenton, N. J. Packing. No. 1,151,227; Aug. 24; Gaz. vol. 217; p. 1191.
- Stokes, Clarence M., Norristown, Pa. Pipe-covering. No. 1,137,432; Apr. 27; Gaz. vol. 213; p. 1312.
- Stokes, Francis J., Philadelphia, Pa. Vacuum-drier. No. 1,151,417; Aug. 24; Gaz. vol. 217; p. 1252.
- Stokes, John N., Bentonville, Ark. Extension car-step. No. 1,159,288; Nov. 2; Gaz. vol. 220; p. 305.
- Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Pa. Sealed wrapped package. No. 1,150,076; Aug. 17; Gaz. vol. 217; p. 732.
- Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Pa. Sealed wrapped package and opener therefor. No. 1,154,217; Sept. 21; Gaz. vol. 218; p. 724.
- Stokes, John S., Moorestown, N. J., and J. D. Reifsnnyder, Philadelphia, assignors to Stokes and Smith Co., Summerdale, Pa. Sheet-feeding mechanism. No. 1,136,562; Apr. 20; Gaz. vol. 213; p. 961.
- Stokes, John S., Philadelphia, assignor to Stokes & Smith Company, Summerdale, Pa. Sealed container. No. 1,152,354; Aug. 31; Gaz. vol. 217; p. 1624.
- Stokes, Robert J., Trenton, N. J. Brake-shoe. No. 1,165,143; Dec. 21; Gaz. vol. 221; p. 930.
- Stokes, Robert L., assignor to W. H. Darrow, Cincinnati, Ohio. Float-valve mechanism. No. 1,156,719; Oct. 12; Gaz. vol. 219; p. 511.
- Stokes and Smith Co. (See Stokes and Reifsnnyder, assignors.)
- Stokes & Smith Company. (See Carlson, Walter C., assignor.)
- Stokes & Smith Company. (See Kormanshaus, Carl, assignor.)
- Stokes & Smith Company. (See Reifsnnyder and Fath, assignors.)
- Stokes & Smith Company. (See Reifsnnyder and Saatman, assignors.)
- Stokes & Smith Company. (See Reifsnnyder and Schwerdtle, assignors.)
- Stokes & Smith Company. (See Reifsnnyder and Smith, assignors.)
- Stokes & Smith Company. (See Schwerdtle, Henry G., assignor.)
- Stokes & Smith Company. (See Smith, Harry B., assignor.)
- Stokes & Smith Company. (See Smith and Reifsnnyder, assignors.)
- Stokes & Smith Company. (See Stokes, John S., assignor.)
- Stokes & Smith Company. (See Sutton, George Z., assignor.)
- Stokes, William E. D., et al. (See Larsson, Thure, assignor.)
- Stoll, Clarence G., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Desk-stand. No. 1,126,120; Jan. 26; Gaz. vol. 210; p. 1145.
- Stoll, David, New York, N. Y. Cigarette-box. No. 1,163,183; Dec. 7; Gaz. vol. 221; p. 157.
- Stoll, Louis M., assignor to J. P. Galbraith, St. Paul, Minn. Lantern. No. 1,127,695; Feb. 9; Gaz. vol. 211; p. 398.
- Stoll, Mathew H., La Crosse, Wis. Hinge. No. 1,138,025; May 4; Gaz. vol. 214; p. 104.
- Stoll, Mathew H., La Crosse, Wis. Container-latch. No. 1,154,739; Sept. 28; Gaz. vol. 218; p. 932.

Alphabetical list of patentees—Continued.

- Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. One-piece folded sheet-metal sap-receptacle. No. 1,126,121; Jan. 26; Gaz. vol. 210; p. 1145.
- Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Screw-cap nozzle for cans. No. 1,129,917; Mar. 2; Gaz. vol. 212; p. 29.
- Stolle, Frank J., Fort Thomas, Ky. Shoe-shining kit. No. 1,144,568; June 29; Gaz. vol. 215; p. 1344.
- Stollings, Joel O., et al. (See Miller, Henry M., assignor.)
- Stolte, Edward G. (See Doyle, William F., assignor.)
- Stolte, Florence P., administratrix. (See Doyle, William F.)
- Stoltenberg, Adolph, New York, N. Y. Vegetable-cutter. No. 1,157,448; Oct. 19; Gaz. vol. 219; p. 799.
- Stommel, Hugo, Elberon, N. J. Tile-glazing machine. No. 1,163,117; Dec. 7; Gaz. vol. 221; p. 133.
- Stone, Abraham J., assignor of one-half to S. Suckno, Albany, N. Y. Lantern for moving pictures. No. 1,133,412; Mar. 30; Gaz. vol. 212; p. 1420.
- Stone, Andrew H., and E. O. Brostrom, Kansas City, Mo. Library extension-table. No. 1,124,970; Jan. 12; Gaz. vol. 210; p. 665.
- Stone, Andrew J., et al. (See Dickinson, Herbert and R. Y., assignors.)
- Stone, Bertram, West New Brighton, N. Y. Non-refillable bottle. No. 1,153,725; Sept. 14; Gaz. vol. 218; p. 521.
- Stone, Chester A., and G. C. Brown, assignors of one-third to said Stone, one-third to C. B. Mouthrop, and one-third to L. C. Jackson, Buffalo, N. Y. Magneto-electric generator. No. 1,128,914; Feb. 16; Gaz. vol. 211; p. 877.
- Stone & Company Limited, J. (See Parsons, William S., assignor.)
- Stone & Company Limited, J. (See Saccaggio, Pedro C., assignor.)
- Stone, George, assignor to M. T. Stevens and Sons Company, North Andover, Mass. Bag-filling apparatus. No. 1,141,220; June 1; Gaz. vol. 215; p. 46.
- Stone, George C., assignor to The New Jersey Zinc Company, New York, N. Y. Apparatus for concentrating minerals by flotation. No. 1,156,041; Oct. 5; Gaz. vol. 219; p. 249.
- Stone, George M., Grissold, Iowa. Power-transmission mechanism for motor-vehicles. No. 1,137,549; Apr. 27; Gaz. vol. 213; p. 1350.
- Stone, Gustave A. (See Stone, Herman A., assignor.)
- Stone, Henry B., Providence, R. I. Signaling system. No. 1,149,418; Aug. 10; Gaz. vol. 217; p. 435.
- Stone, Herman A., assignor of one-half to G. A. Stone, Cleveland, Ohio. Fuel-economizer for internal-combustion engines. No. 1,139,081; May 11; Gaz. vol. 214; p. 517.
- Stone, Irving I., assignor to G. A. E. Kohler, Chicago, Ill. Apparatus for feeding paper to printing-presses, &c. No. 1,124,673; Jan. 12; Gaz. vol. 210; p. 561.
- Stone, James, La Crosse, Wis. Body-garment. No. 1,141,284; June 1; Gaz. vol. 215; p. 69.
- Stone, John A., Derry, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Guiding device for grooving-tools. No. 1,148,723; Aug. 3; Gaz. vol. 217; p. 86.
- Stone, John A., Chicago, Ill., assignor to International Harvester Company of New Jersey. Motor attachment for harvesters. No. 1,157,056; Oct. 19; Gaz. vol. 219; p. 659.
- Stone, John E., Sweet Water, Tex. Motor-vehicle brake. No. 1,153,726; Sept. 14; Gaz. vol. 218; p. 521.
- Stone, Junius H., Noroton Heights, Conn. Rotary refrigerating apparatus. No. 1,131,169; Mar. 9; Gaz. vol. 212; p. 494.
- Stone, Lester V. and L. J., Augusta, Ga. Hoisting device. No. 1,134,707; Apr. 6; Gaz. vol. 213; p. 228.
- Stone, Lloyd J. (See Stone, Lester V. and L. J.)
- Stone, Melvin L., assignor to Draper Company, Hopedale, Mass. Feeler-motion for looms. No. 1,149,168; Aug. 3; Gaz. vol. 217; p. 240.
- Stone, Norman H., Garyville, La. Saw-rim adjuster. No. 1,155,966; Oct. 5; Gaz. vol. 219; p. 222.
- Stone, Oliver W., Seattle, Wash. Turbine. No. 1,158,082; Oct. 26; Gaz. vol. 219; p. 1082.
- Stone, Paul P. (See Pfifer, Washington I., assignor.)
- Stone, Robert A., Northboro, Mass. Track-sander. No. 1,123,421; Jan. 5; Gaz. vol. 210; p. 77.
- Stone, Robert E. (See England, Clifford R., assignor.)
- Stone, Samuel E., Hull, Ill. Train-stopping apparatus. No. 1,163,482; Dec. 7; Gaz. vol. 221; p. 261.
- Stone, Samuel N., Attleboro, assignor to J. J. Sommer & Co., North Attleboro, Mass. Forming settings for precious stones, &c. No. 1,157,598; Oct. 19; Gaz. vol. 219; p. 847.
- Stone, Wilbur M., Orange, N. J., assignor to Mercantile Corporation, New York, N. Y. Blank-handling mechanism. No. 1,123,617; Jan. 5; Gaz. vol. 210; p. 143.
- Stone, Wilbur M., assignor of one-half to J. O'Connor, New York, N. Y. Note-sheet-guiding device. No. 1,139,082; May 11; Gaz. vol. 214; p. 517.
- Stone, Wilbur M., East Orange, N. J., assignor to H. Elsas, New York, N. Y. Windowed receptacle. No. 1,162,818; Dec. 7; Gaz. vol. 221; p. 31.
- Stoneback, John G. (See Kelsey and Stoneback.)
- Stoneback, Samuel A., Philadelphia, Pa. Bath-tub. No. 1,129,612; Feb. 23; Gaz. vol. 211; p. 1158.
- Stoneback, Samuel A., Philadelphia, Pa. Bed. No. 1,132,633; Mar. 23; Gaz. vol. 212; p. 1102.
- Stonebridge, Charles H., New York, N. Y. Folding lan-
- Stoneburner, Thomas R., Alexandria county, Va. Silo. No. 1,164,235; Dec. 14; Gaz. vol. 221; p. 568.
- tern. No. 1,152,571; Sept. 7; Gaz. vol. 218; p. 71.
- Stouemetz, John H., assignor to The Challenge Machinery Company, Grand Haven, Mich. Paper-cutting machine. No. 1,143,237; June 15; Gaz. vol. 215; p. 832.
- Stoner, Clarence J., Gloversville, N. Y. Linoleum-rack. No. 1,143,459; June 15; Gaz. vol. 215; p. 909.
- Stoner, Frank H., assignor to Wilder-Strong Implement Company, Monroe, Mich. Journal-box. No. 1,145,090; July 6; Gaz. vol. 216; p. 43.
- Stoner, Thomas K., Chicago, Ill. Machine for cleaning bags, fabrics, or similar articles. No. 1,146,367; July 13; Gaz. vol. 216; p. 506.
- Stonestreet, Wilfrid, Nashville, Tenn. Game. No. 1,148,060; July 27; Gaz. vol. 216; p. 1148.
- Stonier, Francis, Manchester, England. Means for giving a finished surface to wire gauze. No. 1,138,257; May 4; Gaz. vol. 214; p. 186.
- Stoolhire, Charles, Myrtle Creek, Oreg. Stack-climber. No. 1,153,583; Sept. 14; Gaz. vol. 218; p. 471.
- Stopp, Alvin C., Stoppington, Alberta, Canada. Nut-lock. No. 1,124,353; Jan. 12; Gaz. vol. 210; p. 446.
- Stopp, Alvin C., Stoppington, Alberta, assignor of one-half to W. H. A. Auger, Forbes, Saskatchewan, Canada. Plow. No. 1,123,618; Jan. 5; Gaz. vol. 210; p. 144.
- Storage Battery Appliance Company, The. (See Knobloch, Karola, assignor.)
- Stordahl, Ingomar, Miles City, Mont. Mechanical fuel-feeding apparatus. No. 1,144,156; June 22; Gaz. vol. 215; p. 1175.
- Storer, George B. (See Loesch, William, assignor.)
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,135,412; Apr. 13; Gaz. vol. 213; p. 514.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Overhead line construction. No. 1,144,620; June 29; Gaz. vol. 215; p. 1362.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System and method of control for electric motors. No. 1,155,170; Sept. 28; Gaz. vol. 218; p. 1081.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. (Reissue.) No. 13,998; Oct. 19; Gaz. vol. 219; p. 877.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,157,820; Oct. 26; Gaz. vol. 219; p. 989.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Over-speed protecting device for electric motors. No. 1,161,994; Nov. 30; Gaz. vol. 220; p. 1439.
- Storer, Norman W., Pittsburgh, and A. J. Hall, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,157,821; Oct. 26; Gaz. vol. 219; p. 989.
- Storer, Simon B., Syracuse, N. Y., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Recording instrument for wattmeters. No. 1,141,729; June 1; Gaz. vol. 215; p. 227.
- Storer, Simon B., Syracuse, N. Y., assignor, by mesne assignments, to Chicago Electric Meter Company, Chicago, Ill. Speed-recorder. No. 1,148,126; July 27; Gaz. vol. 216; p. 1173.
- Storey, Charles A., Fort Robinson, Nebr. Moving-picture machine. No. 1,129,754; Feb. 23; Gaz. vol. 211; p. 1201.
- Storey, Isaac H. (See Kitchen and Storey.)
- Storey, John E., Leicester, England. Means for supporting articles of regular or irregular form. No. 1,153,727; Sept. 14; Gaz. vol. 218; p. 521.
- Storjohann, Diederich, Immigrath, Germany. Electromagnetic track-brake. No. 1,124,072; Jan. 5; Gaz. vol. 210; p. 297.
- Stork-Tuteur Company. (See Tuteur, Charles, assignor.)
- Storm, Adolph, and E. C. O'Hair, Thompson, Iowa. Boring-machine. No. 1,146,665; July 13; Gaz. vol. 216; p. 612.
- Storm, Clarence O., Kansas City, Mo. Rail-clamp. No. 1,139,237; May 11; Gaz. vol. 214; p. 570.
- Storm, Edwin R., New York, N. Y. Rotary printing-press. No. 1,139,314; May 11; Gaz. vol. 214; p. 595.
- Storm, Herbert C. (See Spencer and Storm.)
- Storrer, Hermann F., New York, N. Y. Wood-pulp machinery. No. 1,164,426; Dec. 14; Gaz. vol. 221; p. 636.
- Storrer, Hermann F., New York, N. Y. Screen for paper-pulp. No. 1,164,427; Dec. 14; Gaz. vol. 221; p. 637.
- Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Chimney for incandescent burners. No. 1,129,135; Feb. 23; Gaz. vol. 211; p. 990.
- Storrs, Charles H. (See Merritt and Storrs.)
- Storrs Mica Company. (See Storrs, Aaron P., assignor.)

Alphabetical list of patentees—Continued.

- Story & Clark Piano Company. (See Story, Frank F., assignor.)
- Story, Elliott M., Brockton, Mass. Coin-controlled vending-machine. No. 1,160,548; Nov. 16; Gaz. vol. 220; p. 837.
- Story, Frank F., Riverside, assignor to Story & Clark Piano Company, Chicago, Ill. Note-sheet-guiding device. No. 1,148,724; Aug. 3; Gaz. vol. 217; p. 86.
- Story, Hudson F., assignor of one-half to J. D. Boley, Highland, Cal. Pump-head. No. 1,154,348; Sept. 21; Gaz. vol. 218; p. 770.
- Story, Ward B., assignor to R. Hoe and Co., New York, N. Y. Gripper mechanism for printing and similar machines. No. 1,123,619; Jan. 5; Gaz. vol. 210; p. 144.
- Story, Ward B., assignor to Ward B. Story Company, Inc., New York, N. Y. Register device for feeders. No. 1,160,210; Nov. 16; Gaz. vol. 220; p. 718.
- Story, Ward B., assignor to Ward B. Story Company, Inc., New York, N. Y. Register device for feeders. No. 1,161,014; Nov. 16; Gaz. vol. 220; p. 1003.
- Stosiek, Joseph J., South Milwaukee, Wis. Demountable rim. No. 1,154,218; Sept. 21; Gaz. vol. 218; p. 724.
- Stotler, Frank W., Wilkinsburg, and J. H. Steele, Pittsburgh, Pa. Leveling-rod. No. 1,161,358; Nov. 23; Gaz. vol. 220; p. 1172.
- Stott, James, Oldham, England. Water-heater. No. 1,135,860; Apr. 13; Gaz. vol. 213; p. 672.
- Stott, James, Philadelphia, Pa. Machine for ornamenting glass. No. 1,158,329; Oct. 26; Gaz. vol. 219; p. 1168.
- Stotts, Elza S., Des Moines, Iowa. Eccentric steam-hose lock. No. 1,130,855; Mar. 9; Gaz. vol. 212; p. 387.
- Stough, Turney H., Jeannette, Pa. Kitchen utensil. No. 1,133,413; Mar. 30; Gaz. vol. 212; p. 1421.
- Stoughton Wagon Company. (See Egeland, Chris, assignor.)
- Stout, Harold E., Toledo, Ohio. Direction-indicator. No. 1,158,083; Oct. 26; Gaz. vol. 219; p. 1083.
- Stout, Lewis F., Lockport, N. Y. Jar-closure. No. 1,151,303; Aug. 24; Gaz. vol. 217; p. 1216.
- Stout, Robert P., Bethlehem, Northampton county, and W. L. Lukens, Bethlehem, Lehigh county, assignors to The Bethlehem Steel Company, South Bethlehem, Pa. Fuse for explosive projectiles. No. 1,145,937; July 13; Gaz. vol. 216; p. 356.
- Stoutenburgh, Robert V. D., Hollis, N. Y. Clothes-rack. No. 1,155,967; Oct. 5; Gaz. vol. 219; p. 223.
- Stover, Davis S., Amsterdam, N. Y. Tube-cleaner. No. 1,145,626; July 6; Gaz. vol. 216; p. 227.
- Stover Manufacturing Company. (See Hance, Willard A., assignor.)
- Stover, Murray A., El Centro, Cal. Saxophone. No. 1,146,368; July 13; Gaz. vol. 216; p. 507.
- Stow Manufacturing Company. (See Hotchkiss, Clarence F., assignor.)
- Stow, Percival E., assignor of one-third to H. M. V. Sharp, Croydon, and one-third to H. V. Lawley, Battersea Park, London, England. Coloring films. No. 1,130,645; Mar. 2; Gaz. vol. 212; p. 281.
- Stow, Percival E., assignor of one-third to H. M. V. Sharp, Croydon, and one-third to H. V. Lawley, Battersea Park, London, England. Apparatus for coloring films and the like. No. 1,162,886; Dec. 7; Gaz. vol. 221; p. 53.
- Stowell, Edward R., Oden, Mich. Fabrication of heat and acid proof paint or coating. No. 1,164,670; Dec. 21; Gaz. vol. 221; p. 763.
- Stowell, Henry F., Rochester, N. Y. Optical device for viewing moving pictures. No. 1,141,432; June 1; Gaz. vol. 215; p. 125.
- Strache, Hugo, Vienna, Austria-Hungary. Producing combustible gases. No. 1,154,455; Sept. 21; Gaz. vol. 218; p. 806.
- Stradovsky, Bohumil, Chicago, Ill. Rotary engine. No. 1,145,627; July 6; Gaz. vol. 216; p. 227.
- Strable, Arthur L., assignor of one-half to L. P. Byars, Benson, Neb. Combined timer and distributor. No. 1,156,255; Oct. 12; Gaz. vol. 219; p. 347.
- Straight, Bennett D., assignor to Mail-order Company, Detroit, Mich. Stamp-delivery mechanism. No. 1,127,543; Feb. 9; Gaz. vol. 211; p. 348.
- Straight, Bennett D., assignor to Rochester Monitor Company, Inc., Rochester, N. Y. Butter-dispensing apparatus. No. 1,146,972; July 20; Gaz. vol. 216; p. 740.
- Straight Filament Lamp Company. (See O'Brien, Dennis J., assignor.)
- Straight, Halver R., Adel, Iowa. Tlle fence. No. 1,151,974; Aug. 31; Gaz. vol. 217; p. 1492.
- Straight, Halver R., Adel, Iowa. Ventilated building structure. No. 1,154,219; Sept. 21; Gaz. vol. 218; p. 724.
- Strain, Shelley M. (See Hughes, Hugh T., assignor.)
- Straitt, William, Appleton, Wis. Traction-engine. No. 1,130,117; Mar. 2; Gaz. vol. 212; p. 95.
- Straitt, William, Appleton, Wis. Steering mechanism for traction-machines. No. 1,131,288; Mar. 9; Gaz. vol. 212; p. 536.
- Straka, Adolph. (See Bees, William H., assignor.)
- Straley, Harvila E. (See Shockley and Straley.)
- Strand, Andrew, Minneapolis, assignor to Joerns Motor Manufacturing Company, St. Paul, Minn. Motor-cycle. No. 1,143,793; June 22; Gaz. vol. 215; p. 1046.
- Strand Mantle and Machine Company. (See Robin, Jacob I., assignor.)
- Strand, Martin A., New Richmond, Wis. Toe-strap and stirrup for skees. No. 1,164,886; Dec. 21; Gaz. vol. 221; p. 838.
- Stranders, Julien, assignor to H. B. Kruger, New York, N. Y. Display device. No. 1,147,461; July 20; Gaz. vol. 216; p. 911.
- Stranders, Julien, assignor to H. B. Kruger, New York, N. Y. Advertising device. No. 1,147,689; July 20; Gaz. vol. 216; p. 990.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Plow. No. 1,125,206; Jan. 19; Gaz. vol. 210; p. 785.
- Strang, Minor, Tecumseh, Mich. Electric-railway safety system. No. 1,126,122; Jan. 26; Gaz. vol. 210; p. 1145.
- Strang, Walter C., Yonkers, N. Y. Elevator safety device. No. 1,141,986; June 8; Gaz. vol. 215; p. 351.
- Strange, Edward D., East St. Louis, Ill., and M. M. Heffernan, St. Louis, Mo. Air-heating device for internal-combustion engines. No. 1,143,331; June 15; Gaz. vol. 215; p. 864.
- Strange, Harry B., Blackheath, assignor to T. Firth and Sons, Limited, Sheffield, England. Armor-piercing projectile. No. 1,149,602; Aug. 10; Gaz. vol. 217; p. 500.
- Strange, Harry B., Blackheath, assignor to Thos. Firth and Sons, Limited, Sheffield, England. Armor-piercing projectile. No. 1,153,460; Sept. 14; Gaz. vol. 218; p. 427.
- Strange, Harry B., Blackheath, assignor to Thos. Firth and Sons, Limited, Sheffield, England. Armor-piercing projectile. No. 1,160,093; Dec. 28; Gaz. vol. 221; p. 1298.
- Straszky, Emil, Philadelphia, Pa. Multiple-fuse plug. No. 1,127,106; Feb. 2; Gaz. vol. 211; p. 156.
- Straszky, Emil, New York, N. Y. Fuse-cartridge. No. 1,151,135; Aug. 24; Gaz. vol. 217; p. 1158.
- Strasburger, Frank C. II., Knox, Ind. Spark-plug pump. No. 1,139,917; May 18; Gaz. vol. 214; p. 846.
- Strasser, Charles, Los Angeles, Cal. Cultivator. No. 1,124,183; Jan. 5; Gaz. vol. 210; p. 335.
- Strasser, David, assignor to Cigar Wrapper Register Company, Inc., New York, N. Y. Tobacco-wrapper counter. No. 1,123,948; Jan. 5; Gaz. vol. 210; p. 255.
- Strasser, David, assignor to Cigar Wrapper Register Co., Inc., New York, N. Y. Cigar-wrapper counter. No. 1,133,333; Mar. 30; Gaz. vol. 212; p. 1391.
- Stratton, Azariah D., Omaha, Neb. Combination plasterer's implement. No. 1,154,453; Sept. 21; Gaz. vol. 218; p. 806.
- Stratton, Edmond F., New York, N. Y., assignor to Gordon Camera Corporation. Camera. No. 1,148,127; July 27; Gaz. vol. 216; p. 1173.
- Stratton, Fenton F., East Croydon, England. Change-speed gearing and motor control. No. 1,149,419; Aug. 10; Gaz. vol. 217; p. 436.
- Stratton, George M., New Brunswick, N. J. Containing-tube. No. 1,126,909; Feb. 2; Gaz. vol. 211; p. 86.
- Stratton, Harper E., Empire, Ohio. Tube-cleaner. No. 1,141,433; June 1; Gaz. vol. 215; p. 125.
- Stratton, Harry F., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric switch. No. 1,134,422; Apr. 6; Gaz. vol. 213; p. 123.
- Stratton, Julian A., Chicago, Ill. Apparatus for regulation of heating systems. No. 1,129,433; Feb. 23; Gaz. vol. 211; p. 1094.
- Stratton, Robert S., Orillia, Ontario, Canada. Pneumatic tire. No. 1,139,597; May 18; Gaz. vol. 214; p. 732.
- Stratton, William D., Grand Rapids, Mich. Syringe. No. 1,137,242; Apr. 27; Gaz. vol. 213; p. 1242.
- Straub, Albert, deceased, New York, N. Y.; A. Straub, administratrix. Tackless lasting. No. 1,124,184; Jan. 5; Gaz. vol. 210; p. 336.
- Straub, Augusta, administratrix. (See Straub, Albert.)
- Straub, Jacques, Chicago, Ill. Parlor base-ball game. No. 1,129,613; Feb. 23; Gaz. vol. 211; p. 1158.
- Straub, James H. (See Taby, Straub, and Maurer.)
- Straub, William F., assignor to Electric Time Recorder Company, Chicago, Ill. Setting device. No. 1,137,677; Apr. 27; Gaz. vol. 213; p. 1391.
- Straub, William F., and A. A. Radtke; said Straub assignor to Electric Time Recorder Company, Chicago, Ill. Master-clock. No. 1,164,557; Dec. 14; Gaz. vol. 221; p. 682.
- Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Lighting system for cinematographs. No. 1,143,663; June 22; Gaz. vol. 215; p. 1003.
- Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Reflecting system. No. 1,151,975; Aug. 31; Gaz. vol. 217; p. 1493.
- Strauch, Albert T., New York, N. Y. Pianissimo device for grand-piano actions. No. 1,157,262; Oct. 19; Gaz. vol. 219; p. 734.
- Strauch, Julius E., and J. C. Wegstein, Washburn, Ill. Spring-wheel. No. 1,164,887; Dec. 21; Gaz. vol. 221; p. 838.
- Straus, Theodore E., assignor to Worthington Cotton Harvester Company, Baltimore, Md. Cotton-picker. No. 1,123,620; Jan. 5; Gaz. vol. 210; p. 144.
- Strause, Edmund A. (See Blair, Frank P., assignor.)
- Strause Gas Iron Co. (See Strause and Spahr, assignors.)

- Strause, Louis J., and O. Spahr, assignors to Strause Gas Iron Co., Philadelphia, Pa. Bunsen burner. No. 1,157,734; Oct. 26; Gaz. vol. 219; p. 961.
- Strauss Bascule and Concrete Bridge Company, The. (See Strauss, Joseph B., assignor.)
- Strauss, Carl, Herington, Kans. Sawing-machine. No. 1,123,312; Jan. 26; Gaz. vol. 210; p. 1214.
- Strauss, Dennis Y., Artesia, assignor to California Retarder & Fibre Company, Los Angeles, Cal. Manufacture of plaster-retarder from bean-vines. No. 1,134,964; Apr. 6; Gaz. vol. 213; p. 314.
- Strauss, Dennis Y., Artesia, assignor to California Retarder & Fibre Company, Los Angeles, Cal. Manufacture of food from bean-vines. No. 1,141,079; May 25; Gaz. vol. 214; p. 1286.
- Strauss, Ferdinand. (See Moore, John L., assignor.)
- Strauss, Joseph B., Chicago, Ill. Chute. No. 1,132,228; Mar. 16; Gaz. vol. 212; p. 906.
- Strauss, Joseph B., Chicago, Ill. Car. No. 1,141,987; June 1; Gaz. vol. 215; p. 352.
- Strauss, Joseph B., Chicago, Ill. Counterbalancing device. No. 1,150,153; Aug. 17; Gaz. vol. 217; p. 762.
- Strauss, Joseph B., Chicago, Ill. Railway-car. No. 1,150,154; Aug. 17; Gaz. vol. 217; p. 762.
- Strauss, Joseph B., Chicago, Ill. Bascule-bridge. No. 1,150,643; Aug. 17; Gaz. vol. 217; p. 933.
- Strauss, Joseph B., Chicago, Ill. Bridge. No. 1,150,975; Aug. 24; Gaz. vol. 217; p. 1104.
- Strauss, Joseph B., Chicago, Ill. Bridge. No. 1,157,449; Oct. 19; Gaz. vol. 219; p. 799.
- Strauss, Joseph B., Chicago, Ill. Bridge. No. 1,157,450; Oct. 19; Gaz. vol. 219; p. 799.
- Strauss, Joseph B., Chicago, Ill. Swing-bridge. No. 1,158,084; Oct. 26; Gaz. vol. 219; p. 1083.
- Strauss, Joseph B., Chicago, Ill. Ventilating system. No. 1,160,667; Nov. 16; Gaz. vol. 220; p. 881.
- Strauss, Joseph B., assignor to The Strauss Bascule and Concrete Bridge Company, Chicago, Ill. Bascule-bridge. No. 1,124,356; Jan. 12; Gaz. vol. 210; p. 446.
- Strauss, Samuel, Los Angeles, Cal. Shoe-making machine. No. 1,131,873; Mar. 16; Gaz. vol. 212; p. 777.
- Strauss, Walter C., Chicago, Ill. Fireless cooker. No. 1,152,861; Sept. 7; Gaz. vol. 218; p. 177.
- Straw, William P., Manchester, N. H. Feeler mechanism for looms. No. 1,150,976; Aug. 24; Gaz. vol. 217; p. 1104.
- Strawline, Fern A., Detroit, Mich. Tank for developing photographic plates. No. 1,144,008; June 22; Gaz. vol. 215; p. 1121.
- Streckler, Charles E., Montreal, Quebec, Canada. Valve. No. 1,144,875; June 29; Gaz. vol. 215; p. 1452.
- Streebig, Henry E., Baltimore, Md. Self-adjustable marginal furniture for printers. No. 1,126,910; Feb. 2; Gaz. vol. 211; p. 86.
- Street, Charles A., St. Louis, Mo. Transmission device. No. 1,128,915; Feb. 6; Gaz. vol. 211; p. 877.
- Street, Clement F., New York, N. Y. Brick arch for boiler-furnaces. No. 1,153,648; Sept. 14; Gaz. vol. 218; p. 492.
- Street, Clement F., Cleveland, Ohio, assignor to The Locomotive Stoker Company, Wilmerding, Pa. Mechanical stoker. No. 1,130,443; Mar. 2; Gaz. vol. 212; p. 210.
- Street, Clement F., Schenectady, N. Y., assignor to The Locomotive Stoker Company, Wilmerding, Pa. Controller-cam device. No. 1,141,503; June 1; Gaz. vol. 215; p. 149.
- Street, Clement F., New York, N. Y., assignor to The Locomotive Stoker Company, Wilmerding, Pa. Controller-cam device. No. 1,141,504; June 1; Gaz. vol. 215; p. 149.
- Street, Clement F., New York, N. Y., assignor to Locomotive Stoker Company, Wilmerding, Pa. Controller-cam device. No. 1,145,337; July 6; Gaz. vol. 216; p. 125.
- Street, Lorena L., Falconer, N. Y. Adjustable clothes-line pole. No. 1,164,138; Dec. 14; Gaz. vol. 221; p. 538.
- Streeter, Alfred L., Chicago, Ill. Brake-shoe. No. 1,142,380; June 8; Gaz. vol. 215; p. 492.
- Streeter-Amet Weighing & Recording Company. (See Goetz, George, assignor.)
- Streeter, Charles M., and J. B. Heck, Toledo, Ohio. Work-clamping jaw. No. 1,125,207; Jan. 19; Gaz. vol. 210; p. 786.
- Streeter, Nelson R., Syracuse, N. Y. Meat and food cutter. No. 1,149,968; Aug. 10; Gaz. vol. 217; p. 633.
- Streetz, Oscar J., River Grove, Ill. Base-ball-game apparatus. No. 1,135,333; Apr. 13; Gaz. vol. 213; p. 486.
- Strehlenert, Robert W., Nol, Sweden, assignor to And. H. Klier & Co. Ltd., Glemminge, near Fredriksstad, Norway. Utilizing the organic as well as the inorganic constituents of the waste liquor produced by the boiling of sulfite cellulose. No. 1,149,420; Aug. 10; Gaz. vol. 217; p. 436.
- Strehler, Emil, Stein, Switzerland. Metal cap for electric incandescent lamps. No. 1,157,057; Oct. 19; Gaz. vol. 219; p. 660.
- Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Bolster. No. 1,163,118; Dec. 7; Gaz. vol. 221; p. 133.
- Streibich, John C., Little Rock, Ark. Resilient wheel. No. 1,165,463; Dec. 28; Gaz. vol. 221; p. 1078.
- Streich, Charles G., Oshkosh, Wis. Bottom door for dump-wagons. No. 1,144,389; June 29; Gaz. vol. 215; p. 1285.
- Streich, Frank, assignor to The Union Wrapping Machine Company, Joliet, Ill. Bun and bread molder and rounder. No. 1,152,348; Aug. 31; Gaz. vol. 217; p. 1622.
- Streichert, Emil C. F., Detroit, Mich., assignor, by mesne assignments, to Harrison Mfg. Co., Inc., Lockport, N. Y. Radiator-section. (Reissue.) No. 14,021; Nov. 23; Gaz. vol. 220; p. 1340.
- Streisel, George J., Sr., et al. (See Behm and Vene, assignors.)
- Streit, Aron, New York, N. Y. Forming, charging, and removing device for bakers' ovens. No. 1,165,035; Dec. 21; Gaz. vol. 221; p. 889.
- Streit, George B., Detroit, Mich. Paper-board box. No. 1,126,123; Jan. 26; Gaz. vol. 210; p. 1146.
- Streit, George B., Detroit, Mich. Paper-board box. No. 1,162,887; Dec. 7; Gaz. vol. 221; p. 53.
- Streit, Joseph, Pleasanton, Nebr. Animal-tail holder. No. 1,149,097; Aug. 3; Gaz. vol. 217; p. 215.
- Strelinger, Charles A., et al. (See Garros, Benjamin, assignor.)
- Stretch, Joseph, Freeport, N. Y. Building construction. No. 1,160,340; Nov. 16; Gaz. vol. 220; p. 763.
- Stricker, George A., Buffalo, N. Y., assignor to The Economic and Sanitary Liquid-Cooling Company, Inc. Liquid-cooler. No. 1,134,243; Apr. 6; Gaz. vol. 213; p. 59.
- Stricker, Gertrude, Kansas City, Mo. Drain-ld for cooking utensils. No. 1,148,634; Aug. 3; Gaz. vol. 217; p. 54.
- Stricklan, George N., Savannah, Ga. Lock. No. 1,154,454; Sept. 21; Gaz. vol. 218; p. 806.
- Strickland, George K., Chicago, Ill., assignor of one-half to W. W. Wagg, Moose Jaw, Saskatchewan, Canada. Conveyor for binding-machines. No. 1,135,146; Apr. 13; Gaz. vol. 213; p. 424.
- Strickland, George R., Chicago, Ill., assignor of one-half to W. W. Wagg, Moose Jaw, Saskatchewan, Canada. Conveyor for harvesting-machines. No. 1,152,572; Sept. 7; Gaz. vol. 218; p. 72.
- Strickland, Silas A., Detroit, Mich. Pump for motor-vehicles. No. 1,150,977; Aug. 24; Gaz. vol. 217; p. 1105.
- Strickland, Silas A., assignor to A. C. Waters, Detroit, Mich. Starting mechanism for explosive-engines. No. 1,140,416; May 25; Gaz. vol. 214; p. 1056.
- Strickler, Emerson H., assignor to General Chemical Company, New York, N. Y. Manufacture of monoalkali-metal phosphate. No. 1,150,899; Aug. 24; Gaz. vol. 217; p. 1077.
- Strickler, Emerson H., assignor to General Chemical Company, New York, N. Y. Manufacture of monoalkali-metal phosphate. No. 1,150,900; Aug. 24; Gaz. vol. 217; p. 1078.
- Strickler, Emerson H., assignor to General Chemical Company, New York, N. Y. Effervescent compound. No. 1,150,901; Aug. 24; Gaz. vol. 217; p. 1078.
- Strickler, Jacob L., Denver, Colo. Wind-shield. No. 1,146,666; July 13; Gaz. vol. 216; p. 612.
- Strid, Sven J., assignor to W. P. Murphy, Chicago, Ill. Release-rigging. No. 1,131,438; Mar. 9; Gaz. vol. 212; p. 587.
- Strine, Roy N., Westminster, Md. Valve-grinding device. No. 1,146,037; July 13; Gaz. vol. 216; p. 392.
- Stringe, Alfred H., Chicago, Ill. Type-writer desk. No. 1,146,369; July 13; Gaz. vol. 216; p. 507.
- Stringer, Harrison A. (See Gambel and Stringer.)
- Stringer, James A., Clare, La. Churn. No. 1,155,766; Oct. 5; Gaz. vol. 219; p. 153.
- Strite, Albert J. (See Strite, Charles P. and A. J.)
- Strite, Charles P. and A. J., assignors to Horton Manufacturing Company, Minneapolis, Minn. Governor-controlled clutch. No. 1,126,124; Jan. 26; Gaz. vol. 210; p. 1146.
- Strite, Ensley L., et al. (See Strite and Bierman, assignors.)
- Strite, George T., and F. H. Bierman, assignors of one-fifth to H. J. Bierman, one-fifth to E. L. Strite, Minneapolis, Minn., and one-fifth to J. S. Clapper, Billings, Mont. Traction-engine. No. 1,138,996; May 11; Gaz. vol. 214; p. 486.
- Stritter, Karl A., Nahant, Mass. Boot and shoe. No. 1,161,083; Nov. 23; Gaz. vol. 220; p. 1072.
- Strnad, John C., Highland Park, assignor to Mail-ometer Company, Detroit, Mich. Stamp or label affixing machine. No. 1,129,246; Feb. 23; Gaz. vol. 211; p. 1028.
- Strnad, John C., Highland Park, assignor to Mail-ometer Company, Detroit, Mich. Stamp-affixing machine. No. 1,141,666; June 1; Gaz. vol. 215; p. 206.
- Strob, Lawrence J., St. Louis, Mo. Horseshoe attachment. No. 1,152,988; Sept. 7; Gaz. vol. 218; p. 223.
- Strobach, Johann, near Schönau-Schluckenau, Austria-Hungary. Manufacture of laces for coaches and the like. No. 1,124,357; Jan. 12; Gaz. vol. 210; p. 447.
- Stroband, Gerardus H., and J. H., Amsterdam, Netherlands. Drying, heating, or cooling of grain, fruits, and other agricultural products. No. 1,146,458; July 13; Gaz. vol. 216; p. 541.

Alphabetical list of patentees—Continued.

- Stroband, Johannes H. (See Stroband, Gerardus H. and J. H.)
- Ströbeck, Frans T., Beachmont, Mass., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,152,667; Sept. 7; Gaz. vol. 218; p. 106.
- Strobbart, Helen E., Chicago, Ill. Straining device for sinks and the like. No. 1,145,938; July 13; Gaz. vol. 216; p. 356.
- Strobe, John, Seward, Kans. Speed-indicator. No. 1,132,130; Mar. 16; Gaz. vol. 212; p. 870.
- Strode, Edward P., Newark, N. J. Pneumatic sweeping device. No. 1,149,227; Aug. 10; Gaz. vol. 217; p. 366.
- Stroebel, George F. (See Kaiser and Stroebel.)
- Strohl, Friedrich, Rumpenheim-on-the-Main, assignor to C. A. Neubecker, Offenbach-on-the-Main, Germany. Cask-hooping machine. No. 1,155,767; Oct. 5; Gaz. vol. 219; p. 153.
- Strohm, Wilmer J., Moline, Kans. Torpedo-holder. No. 1,142,640; June 8; Gaz. vol. 215; p. 582.
- Strohmenger, Arthur P., Westminster, assignor to Slaughter & Company, Limited, London, England. Electric welding and fusion deposition of metals. No. 1,144,390; June 29; Gaz. vol. 215; p. 1285.
- Strohmenger, Arthur P., Westminster, assignor to Slaughter and Company, Limited, London, England. Electric deposition of metals by fusion. (Reissue.) No. 13,970; Aug. 24; Gaz. vol. 217; p. 1311.
- Strohmenger, Arthur P., Westminster, assignor to Ester & Co., Limited, London, England. Apparatus for the treatment of fluids with coagulants. No. 1,161,750; Nov. 23; Gaz. vol. 220; p. 1307.
- Strom, Eugene N., assignor to Pettibone Mulliken Company, Chicago, Ill. Railway-crossing. No. 1,140,008; May 18; Gaz. vol. 214; p. 879.
- Strom, Matt, and E. Hoglund, Duluth, Minn. Soil-cultivating tool. No. 1,155,289; Sept. 28; Gaz. vol. 218; p. 1117.
- Strom, Samuel. (See Johnson and Strom.)
- Strom, Victor A., Hoffman, Minn. Automobile. No. 1,131,289; Mar. 9; Gaz. vol. 212; p. 536.
- Strom, Walter H., Oak Park, Ill. Ball-bearing. No. 1,135,558; Apr. 13; Gaz. vol. 213; p. 566.
- Stromberg-Carlson Telephone Manufacturing Company. (See Clausen, Henry P., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Lewis, John H., Jr., assignor.) (Reissue.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Reinke, Eugene A., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Taggart, John A., assignor.)
- Stromberg Electric Company. (See Crook, Charles M., assignor.)
- Stromberg Motor Devices Company. (See Bessom and Anderson, assignors.)
- Stromberg Motor Devices Company. (See Goldberg, John S., assignor.)
- Stromberg Motor Devices Company. (See Frey, Herbert H., assignor.)
- Stromberg Motor Devices Company. (See Williams, Lynn A., assignor.)
- Stromberg Motor Devices Company. (See Wixon, Howard H., assignor.)
- Stromborg, Fritz O., Salt Lake City, Utah. Ore-concentrator. No. 1,146,211; July 13; Gaz. vol. 216; p. 453.
- Stromeyer, Walter H., New York, N. Y. Tobacco-pouch. No. 1,156,720; Oct. 12; Gaz. vol. 219; p. 511.
- Stromstad, Peter L., Coon Valley, Wis. Lantern-holder. No. 1,145,091; July 6; Gaz. vol. 216; p. 43.
- Strong, Berdette E., and H. G. Clemenger, Jamestown, N. Y. Bleaching veneers. No. 1,128,073; Feb. 9; Gaz. vol. 211; p. 535.
- Strong, Carlisle and Hammond Company, The. (See Parsons, Frank C., assignor.)
- Strong, Carlisle & Hammond Company, The. (See Siegrist, Charles F., assignor.)
- Strong, Elisha E., Paris, France, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,125,761; Jan. 19; Gaz. vol. 210; p. 984.
- Strong, Eugene M., Boise, Idaho. Fastener. No. 1,154,074; Sept. 21; Gaz. vol. 218; p. 676.
- Strong, Grace R., Stanleton, N. Y. Toy sand-pail. No. 1,127,820; Feb. 9; Gaz. vol. 211; p. 447.
- Strong, Harold, Rotan, Tex. Cotton-chopper. No. 1,164,029; Dec. 14; Gaz. vol. 221; p. 499.
- Strong, James S. (See O'Donnell, John B., assignor.)
- Strong, John J., Birmingham, Ala. Counterbalancing device. No. 1,155,846; Oct. 5; Gaz. vol. 219; p. 183.
- Strong, Robert H., Galesburg, Ill. Device for sharpening razor-blades. No. 1,129,918; Mar. 2; Gaz. vol. 212; p. 29.
- Strong, Robert H., Galesburg, Ill. Device for sharpening razor-blades. No. 1,131,170; Mar. 9; Gaz. vol. 212; p. 494.
- Strong, William E. S., Falmouth township, Barnstable county, Mass., and N. Macy, Greenwich, Conn. Book-lock. No. 1,156,641; Oct. 12; Gaz. vol. 219; p. 484.
- Strong, William T. (See Carnes and Strong.)
- Stronghart Company. (See Kusel, Isidor J., assignor.)
- Strootman, John, Buffalo, N. Y. Cutter for concaving-machines. No. 1,153,461; Sept. 14; Gaz. vol. 218; p. 427.
- Strother, Thomas B., Catherine, Ala. Rail-joint. No. 1,128,074; Feb. 9; Gaz. vol. 211; p. 535.
- Strothmann, Theodor, Milwaukee, Wis. Receptacle for original containers. No. 1,156,506; Oct. 12; Gaz. vol. 219; p. 437.
- Stroud, Charles M., Minneapolis, Minn., assignor of one-half to S. H. Ashley, Grand Forks, N. D. Explosive-engine. No. 1,149,867; Aug. 10; Gaz. vol. 217; p. 597.
- Stroud, John J., deceased, Brooklyn; E. R. Root, executor, assignor to F. I. Stober, New York, N. Y. Folding tray. No. 1,138,156; May 4; Gaz. vol. 214; p. 153.
- Stroud, Thomas L., Fort Myer, Va., assignor of one-third to G. B. Mullin and one-third to J. L. McLucas, Washington, D. C. Lubricator. No. 1,127,309; Feb. 2; Gaz. vol. 211; p. 225.
- Stroud, William. (See Barr and Stroud.)
- Stroud, William. (See Barr, Stroud, and French.)
- Stroud, William. (See Mouton, Barr, and Stroud.)
- Stroup, Earl N., West View, assignor of one-half to J. A. Skiles, Pittsburgh, Pa. Feed-holder. No. 1,144,157; June 22; Gaz. vol. 215; p. 1176.
- Stroup, Luther E., Ripley, Miss. Horse-releaser. No. 1,166,275; Dec. 28; Gaz. vol. 221; p. 1367.
- Stroupe, Frank, et al. (See Taylor, Nicholas, assignor.)
- Strouvelle, Arthur R., and L. T. Mason, Clovis, N. Mex. Transmission-gearing for automobiles. No. 1,154,140; Sept. 21; Gaz. vol. 218; p. 698.
- Strozier-Sinclair Mfg. Co., The. (See Strozier, Webster G., assignor.)
- Strozier, Webster G., assignor to The Strozier-Sinclair Mfg. Co., Inc., Washington, D. C. Wood-clamp. No. 1,141,365; June 1; Gaz. vol. 215; p. 99.
- Strub, Gustav, Toledo, assignor of one-fourth to G. A. Hattersley, Norwood, one-fourth to W. C. Hattersley, Cincinnati, one-fourth to D. E. Hunt, Toledo, Ohio, and one-fourth to E. B. Cornell, Philadelphia, Pa. Hub and spokes for metal wheels. No. 1,127,821; Feb. 9; Gaz. vol. 211; p. 447.
- Strub, Gustave A. (See Hattersley and Strub.)
- Struble, Anderson M., Galesburg, Ill. Compasses. No. 1,160,782; Nov. 16; Gaz. vol. 220; p. 922.
- Struble, Jacob B., Wilkensburg, assignor to The Union Switch and Signal Company, Swissvale, Pa. Signaling system. No. 1,128,075; Feb. 9; Gaz. vol. 211; p. 536.
- Struck, Ludwig T., Washington, D. C. Trousers. No. 1,128,824; Feb. 16; Gaz. vol. 211; p. 844.
- Strunk, Otto, Friemersheim, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Conveyor. No. 1,156,721; Oct. 12; Gaz. vol. 219; p. 512.
- Struppler, Peter F., Scranton, Pa. Keyhole-guard. No. 1,132,696; Mar. 23; Gaz. vol. 212; p. 1125.
- Struthers, Alexander, London, England. Window opening and closing device. No. 1,142,207; June 8; Gaz. vol. 215; p. 430.
- Struthers, Joshua A., Jersey City, N. J., assignor to The Tri-Unit Electrical Co. Electric ignition system. No. 1,123,621; Jan. 5; Gaz. vol. 210; p. 145.
- Strycker, Loraine W., New York, N. Y., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Work-holding tool. No. 1,133,334; Mar. 30; Gaz. vol. 212; p. 1392.
- Stryfeler, Frank, Diamond, Ohio. Fastening device for shoes. No. 1,162,663; Nov. 30; Gaz. vol. 220; p. 1666.
- Stryker, Charles L. (See Zeagler and Stryker.)
- Stryker, Clifford L., Buffalo, N. Y. Deflector for electric lamps. No. 1,148,128; July 27; Gaz. vol. 216; p. 1174.
- Stryker, Julius B. B. (See Haberle and Stryker.)
- Stuart American Products Company. (See Stuart, Charles V., assignor.)
- Stuart, Charles V., assignor to Stuart American Products Company, Memphis, Tenn. Atomizing and burning hydrocarbons. No. 1,164,139; Dec. 14; Gaz. vol. 221; p. 538.
- Stuart, Charles V., assignor to Stuart American Products Company, Memphis, Tenn. Spray-burner. No. 1,164,140; Dec. 14; Gaz. vol. 221; p. 538.
- Stuart, Donald G. (See Norwood and Stuart.)
- Stuart, Francis J., St. Louis, Mo. Truss-pad. No. 1,142,466; June 8; Gaz. vol. 215; p. 523.
- Stuart, Frank J., St. Louis, Mo. Surgical garment. No. 1,127,544; Feb. 9; Gaz. vol. 211; p. 348.
- Stuart, George J., Bellevue, assignor to The Pittsburgh Valve, Foundry and Construction Company, Pittsburgh, Pa. Limited controller for motors. No. 1,154,274; Sept. 21; Gaz. vol. 218; p. 744.
- Stuart, Harve R., assignor to The Robbins & Myers Company, Springfield, Ohio. Ignition device for explosive-engines. No. 1,150,463; Aug. 17; Gaz. vol. 217; p. 869.
- Stuart, Henry J., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Garment-supporter. No. 1,145,939; July 13; Gaz. vol. 216; p. 356.
- Stuart, John R., assignor to American Steel Foundries, New York, N. Y. Draft-arm. No. 1,151,734; Aug. 31; Gaz. vol. 217; p. 1408.
- Stuart, Kenneth E., Philadelphia, Pa. System of electric despatch. No. 1,150,902; Aug. 24; Gaz. vol. 217; p. 1078.
- Stuart, Kenneth E., London, England. Alternating-current electric-despatch system. No. 1,164,671; Dec. 21; Gaz. vol. 221; p. 763.
- Stuart, Margaret C. (See Heiberger, Franz J., Jr., assignor.)

Alphabetical list of patentees—Continued.

- Stuart, Margaret C. (See Helberger and Stuart.)
 Stuart, N. J., *et al.* (See Stewart, David, assignor.)
 Stuart, Orton K., Indianapolis, Ind. Acetylene-gas plant. No. 1,160,668; Nov. 16; Gaz. vol. 220; p. 882.
 Stuart, Wiley M., Perryville, Ark. Rail-joint. No. 1,135,070; Apr. 13; Gaz. vol. 213; p. 397.
 Stubblefield, George W., Bay City, Ore. Harrow. No. 1,165,213; Dec. 21; Gaz. vol. 221; p. 954.
 Stubblefield, William P., assignor of one-third to G. Baptiste, St. Louis, Mo. Step-mold. No. 1,147,826; July 27; Gaz. vol. 216; p. 1063.
 Stubblefield, William P., assignor of one-third to G. Baptiste, St. Louis, Mo. Step-mold. No. 1,153,462; Sept. 14; Gaz. vol. 218; p. 427.
 Stuber, John, *et al.* (See Stuber, Walter C., assignor.)
 Stuber, Walter C., assignor of one-third to J. Stuber and one-third to W. Federer, Tremont, Ill. Fence-post. No. 1,154,740; Sept. 28; Gaz. vol. 218; p. 932.
 Stubbjare, Joe A., Columbus, Mont. Pickers. No. 1,144,738; June 29; Gaz. vol. 215; p. 1404.
 Stueh, Otto W., and R. E. Sturgis, Allegan, Mich. Package-tie. No. 1,157,451; Oct. 19; Gaz. vol. 219; p. 800.
 Stuck, Everett, assignor to Art Metal Construction Company, Jamestown, N. Y. Base-lock for horizontal units. No. 1,129,247; Feb. 23; Gaz. vol. 211; p. 1029.
 Stuckel, Frank C., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Key-remover. No. 1,152,130; Aug. 31; Gaz. vol. 217; p. 1546.
 Stuckel, Frank C., assignor to Universal Fastening Co., Racine, Wis. Rail-anchor. No. 1,159,430; Nov. 9; Gaz. vol. 220; p. 388.
 Stuckel, Frank C., assignor to Universal Fastening Company, Racine, Wis. Clamp-band. No. 1,165,464; Dec. 28; Gaz. vol. 221; p. 1078.
 Stucker, John M., Ottawa, Kans. Automatic power-jack for automobiles. No. 1,131,747; Mar. 16; Gaz. vol. 212; p. 730.
 Stucker, Louis E., Brooklyn, N. Y. Tube-forming machine. No. 1,130,646; Mar. 2; Gaz. vol. 212; p. 281.
 Stuckey, Robert W., Orlando, Fla. Penholder. No. 1,136,289; Apr. 20; Gaz. vol. 213; p. 864.
 Stuckey, Samuel G., Lockland, Ohio, assignor to L. M. Potts. Tape-moistener. No. 1,123,816; Jan. 5; Gaz. vol. 210; p. 211.
 Stuckl, Arnold, Pittsburgh, Pa. Roller side bearing. No. 1,135,413; Apr. 13; Gaz. vol. 213; p. 515.
 Stuckl, Arnold, assignor of one-half to P. M. Kling, Pittsburgh, Pa. Box-car. No. 1,137,922; May 4; Gaz. vol. 214; p. 70.
 Studebaker Corporation, The. (See Brownlee, Joseph P., assignor.)
 Studebaker Corporation, The. (See Heaslet, James G., assignor.)
 Studebaker Corporation, The. (See MacGlashan, William, assignor.)
 Studebaker, Enoch. (See Birdsong, John L., assignor.)
 Studebaker, Enoch H., Waverly, assignor of one-half to J. L. Birdsong, Kenbridge, Va. Stalk-puller. No. 1,131,290; Mar. 9; Gaz. vol. 212; p. 536.
 Studebaker, John W., Des Moines, Iowa. Practice exercise-card in mathematics. No. 1,157,599; Oct. 19; Gaz. vol. 219; p. 847.
 Stuebing Truck Co., The. (See Stuebing, William, Jr., assignor.)
 Stuebing, William, Jr., assignor to The Stuebing Truck Co., Cincinnati, Ohio. Truck. No. 1,160,666; Nov. 16; Gaz. vol. 220; p. 881.
 Stuehner, Gustavus L., Flushing, N. Y. Dumping-bucket. No. 1,131,748; Mar. 16; Gaz. vol. 212; p. 730.
 Stuehner, Gustavus L., Flushing, N. Y. Auxiliary unlocking device. No. 1,131,749; Mar. 16; Gaz. vol. 212; p. 731.
 Stuepfert, Julius H., Princeton, Ill. Stock-chute. No. 1,133,588; Mar. 30; Gaz. vol. 212; p. 1483.
 Stuewe, Max H., Hollywood, Cal. Convertible furniture. No. 1,138,997; May 11; Gaz. vol. 214; p. 487.
 Stuewe, Oscar H., and L. M. Jansen, Milwaukee, Wis. Combined bell and buzzer. No. 1,162,953; Dec. 7; Gaz. vol. 221; p. 76.
 Stühler, Martin, Cologne, Germany. Apparatus for carbonating liquid. No. 1,126,662; Jan. 26; Gaz. vol. 210; p. 1341.
 Stukart, Hendrik, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Chicago, Ill. Slicing-machine. No. 1,144,507; June 29; Gaz. vol. 215; p. 1324.
 Stukenborg, Louis C., Covington, Ky. Cotton-picker. No. 1,131,804; Mar. 16; Gaz. vol. 212; p. 752.
 Stukes, John M., San Antonio, Tex. Water-motor. No. 1,147,658; July 20; Gaz. vol. 216; p. 980.
 Stull, Emmett W., Wilkinsburg, Pa., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Electrical control system. No. 1,160,092; Nov. 9; Gaz. vol. 220; p. 623.
 Stull, Herbert L., Seattle, Wash. Folding chair. No. 1,126,911; Feb. 2; Gaz. vol. 211; p. 86.
 Stull, Jacob H., Fremont, Ohio. Friction-clutch. No. 1,156,445; Oct. 12; Gaz. vol. 219; p. 415.
 Stull, Roy H., Sunbury, Pa. Engine-starter. No. 1,143,460; June 15; Gaz. vol. 215; p. 909.
 Stull, William A., Fort Defiance, W. Va. Railway-track switch. No. 1,152,573; Sept. 7; Gaz. vol. 218; p. 72.
 Stull, William L. (See Gainer and Stull.)
 Stuller, Joshua, Sr., Casco township, Allegan county, Mich. Gate-hanger. No. 1,124,550; Jan. 12; Gaz. vol. 210; p. 516.
 Stulp, Fred J., Muskegon, Mich. Turn-button. No. 1,153,330; Oct. 26; Gaz. vol. 219; p. 1169.
 Stultz, Charles W., Indianapolis, Ind., assignor to G & J Tire Company. Building-ranges for tires. No. 1,161,906; Nov. 30; Gaz. vol. 220; p. 1408.
 Stump, Levi E., Chanute, Kans. Hay-rack attachment for wagon-bolsters. No. 1,155,015; Sept. 28; Gaz. vol. 218; p. 1025.
 Stumpf, Emil C., assignor of one-half to C. G. McDonald, Dubuque, Iowa. Revolvable grate. No. 1,124,551; Jan. 12; Gaz. vol. 210; p. 516.
 Stumpf, Johann, Berlin, Germany. Distributing-valve for steam-engines. No. 1,155,451; Oct. 5; Gaz. vol. 219; p. 44.
 Stumpf, Paul, Henningsdorf, Germany, assignor to General Electric Company. Flying-machine. No. 1,157,337; Oct. 19; Gaz. vol. 219; p. 759.
 Stunz, William P., Lansdowne, Md., assignor, by mesne assignments, to The Webb Talking Pictures Company. Transmitter for telephone and other sound-transmitting instruments. No. 1,144,391; June 29; Gaz. vol. 215; p. 1285.
 Stunz, William P., Lansdowne, Md., assignor, by mesne assignments, to The Webb Talking Pictures Company. Cooler for telephone instruments. No. 1,145,393; July 6; Gaz. vol. 216; p. 145.
 Stupakoff, Simon H., Pittsburgh, Pa. Producing drawn sheet-glass. No. 1,136,290; Apr. 20; Gaz. vol. 213; p. 864.
 Stupe, Arthur A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. High-tension electric terminal. No. 1,138,258; May 4; Gaz. vol. 214; p. 187.
 Sturdevant, Charles R. and A. L. Benoit, Worcester, Mass., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Multiple drill. No. 1,126,313; Jan. 26; Gaz. vol. 210; p. 1215.
 Sturdevant, Roma C., Weldon, Iowa. Wire-stretcher. No. 1,154,456; Sept. 21; Gaz. vol. 218; p. 807.
 Sturdevant, Samuel F. (See Webb and Sturdevant.)
 Sturdy-Cummings Company. (See Eklund, Alexander, assignor.)
 Sturges, George S., San Francisco, Cal. Automobile-seat. No. 1,151,910; Aug. 31; Gaz. vol. 217; p. 1471.
 Sturges, Lee, Chicago, Ill. Milk-can. No. 1,161,266; Nov. 23; Gaz. vol. 220; p. 1140.
 Sturgis, Herbert M., assignor to A. Livingston, Kansas City, Mo. Suspended ink-well cabinet. No. 1,164,966; Dec. 21; Gaz. vol. 221; p. 866.
 Sturgis, Nelson H., Guthrie, Okla. Suspension-bridge. No. 1,143,866; June 22; Gaz. vol. 215; p. 1072.
 Sturgis, Richard E. (See Stueh and Sturgis.)
 Sturgis, Samuel D., Los Angeles, Cal. Metal-rolling machine. No. 1,147,985; July 27; Gaz. vol. 216; p. 1121.
 Sturgis, Samuel R., Philadelphia, Pa. Wagon-body frame. No. 1,126,912; Feb. 2; Gaz. vol. 211; p. 86.
 Sturgis Steel Go-Cart Co. (See Jonas and Spofford, assignors.)
 Sturgis Steel Go-Cart Company. (See Cleveland, Grover E., assignor.)
 Sturgis Steel Go-Cart Company. (See Spofford, Christopher S., assignor.)
 Sturm, Conrad and H., Munchen-Gladbach, Germany. Manufacture of colored foil, bronze-foil, and metal foil. No. 1,152,060; Aug. 31; Gaz. vol. 217; p. 1523.
 Sturm, Heinrich. (See Sturm, Conrad and H.)
 Sturm, William, Sr., Chicago, Ill. Brick-handling tongs. No. 1,153,269; Sept. 14; Gaz. vol. 218; p. 357.
 Sturman, Robert E., Franklin township, Wright county, Minn. Tire. No. 1,143,461; June 15; Gaz. vol. 215; p. 909.
 Sturrock, John, Chicago, Ill., assignor to International Harvester Company of New Jersey. Reel-arm-attaching means for harvesters or the like. No. 1,123,949; Jan. 5; Gaz. vol. 210; p. 255.
 Sturt, Alfred T. (See Mason and Sturt.)
 Sturt, Alfred T., Flint, Mich., assignor to Chevrolet Motor Company of New York, Inc., New York, N. Y. Hub-retainer for wheels. No. 1,146,370; July 13; Gaz. vol. 216; p. 508.
 Sturtevant, Charles A., Plainfield, N. J. Pneumatic pad for printing-presses. No. 1,145,276; July 6; Gaz. vol. 216; p. 105.
 Sturtevant, Charles A., Plainfield, N. J. Printing-press. No. 1,146,290; July 13; Gaz. vol. 216; p. 480.
 Sturtevant, Julius, and J. T. Weinzierl, New Kensington, Pa. Bottle-cap-assembling machine. No. 1,155,171; Sept. 28; Gaz. vol. 218; p. 1082.
 Sturtevant, Lorraine H., Quincy, Mass., assignor to Sturtevant Mill Company. Mixing apparatus. No. 1,159,607; Nov. 9; Gaz. vol. 220; p. 451.
 Sturtevant Mill Company. (See Sturtevant, Lorraine H., assignor.)
 Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
 Sturtevant Mill Company. (See Sturtevant, Thomas L., assignor.)
 Sturtevant Mill Company. (See Sturtevant, Thomas L. and T. J., assignors.)

Alphabetical list of patentees—Continued.

- Sturtevant, Thomas E., assignor to McKiernan-Terry Drill Company, Dover, N. J. Feed-control valve. No. 1,127,822; Feb. 9; Gaz. vol. 211; p. 447.
- Sturtevant, Thomas E., assignor to McKiernan-Terry Drill Company, Dover, N. J. Relief-valve for rock-drills. No. 1,127,823; Feb. 9; Gaz. vol. 211; p. 448.
- Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)
- Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Means for lubricating bearings. No. 1,130,118; Mar. 2; Gaz. vol. 212; p. 96.
- Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Screen or separator. No. 1,141,988; June 8; Gaz. vol. 215; p. 352.
- Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Bearing for rolls of crushing-mills. No. 1,164,672; Dec. 21; Gaz. vol. 221; p. 763.
- Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Internal-combustion engine. No. 1,164,673; Dec. 21; Gaz. vol. 221; p. 764.
- Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Crank-shaft mounting for internal-combustion engines. No. 1,164,674; Dec. 21; Gaz. vol. 221; p. 764.
- Sturtevant, Thomas J., Wellesley Farms, assignor to Sturtevant Mill Company, Boston, Mass. Weighing device. No. 1,161,011; Nov. 16; Gaz. vol. 220; p. 1002.
- Sturtevant, Thomas J., Wellesley Farms, assignor to Sturtevant Mill Company, Boston, Mass. Weighing-machine. No. 1,163,792; Dec. 14; Gaz. vol. 221; p. 417.
- Sturtevant, Thomas L., Quincy, Mass. Fencing-strand. No. 1,142,126; June 8; Gaz. vol. 215; p. 404.
- Sturtevant, Thomas L., Quincy, Mass., assignor to Sturtevant Mill Company. Screen or separator. No. 1,125,762; Jan. 19; Gaz. vol. 210; p. 984.
- Sturtevant, Thomas L., Quincy, Mass., assignor to Sturtevant Mill Company. Screen or separator. No. 1,134,166; Apr. 6; Gaz. vol. 213; p. 30.
- Sturtevant, Thomas L., Quincy and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Internal-combustion engine. No. 1,164,675; Dec. 21; Gaz. vol. 221; p. 765.
- Sturts, Ernest H., Philadelphia, Pa. Gas-lighter. No. 1,153,969; Sept. 21; Gaz. vol. 218; p. 639.
- Stuteville, William R., Vesta, Nebr. Automatically-controlled pump. No. 1,135,221; Apr. 13; Gaz. vol. 213; p. 448.
- Stutler, Joseph T., assignor of one-half to R. B. Swartz, Janelaw, W. Va. Razor-strop holder. No. 1,133,511; Mar. 30; Gaz. vol. 212; p. 1455.
- Stutsman, Ira G., Tomah, Wis. Locking device for lanterns. No. 1,155,379; Oct. 5; Gaz. vol. 219; p. 19.
- Stutsman, Joseph A., Melrose, Mass. Ammonia-condensing apparatus. No. 1,148,725; Aug. 3; Gaz. vol. 217; p. 87.
- Stutzman, Frank, Williamsport, Pa. Grinding-machine. No. 1,160,784; Nov. 16; Gaz. vol. 220; p. 922.
- Styll, Harry H., Southbridge, Mass. Ophthalmic mounting. No. 1,146,111; July 13; Gaz. vol. 216; p. 417.
- Styll, Harry H., Southbridge, Mass. Goggles. No. 1,147,278; July 20; Gaz. vol. 216; p. 845.
- Styll, Harry H., Southbridge, Mass. Observation-glass. No. 1,161,995; Nov. 30; Gaz. vol. 220; p. 1439.
- Styll, Harry H., Southbridge, Mass. Glasses. No. 1,165,036; Dec. 21; Gaz. vol. 221; p. 890.
- Subers, Lawrence A., Cleveland, Ohio. Laminated cohesive interwound fabric constructed in tubular and annular form. No. 1,132,634; Mar. 23; Gaz. vol. 212; p. 1103.
- Subers, Lawrence A., Cleveland, Ohio. Automatic machine for constructing a laminated cohesive interwound tubular fabric capable of assuming an annular form. No. 1,132,635; Mar. 23; Gaz. vol. 212; p. 1103.
- Subers, Lawrence A., Cleveland, Ohio. Flexible interlocking spring-tube. No. 1,133,070; Mar. 23; Gaz. vol. 212; p. 1262.
- Subers, Lawrence A., Cleveland, Ohio. Machine for constructing a laminated cohesive interwound tubular fabric. No. 1,136,291; Apr. 20; Gaz. vol. 213; p. 864.
- Subers, Lawrence A., Cleveland, Ohio. Reinforced laminated cohesive interwound fabric band. No. 1,136,292; Apr. 20; Gaz. vol. 213; p. 865.
- Subers, Lawrence A., Cleveland, Ohio. Automatic machine for making tubular fabric. No. 1,145,446; July 6; Gaz. vol. 216; p. 165.
- Subik, John L. (See Horning and Subik.)
- Submarine Signal Company. (See Evans, Griffith C., assignor.)
- Submarine Signal Company. (See Williams, Robert L., assignor.)
- Submarine Signal Company. (See Wood, Edward C., assignor.)
- Submarine Wireless Company. (See Berger, Christian, assignor.)
- Subterranean Heater Corporation. (See Bretlung and Pick, assignors.)
- Suchy, Alfred V., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Bleach-chamber. No. 1,126,586; Jan. 26; Gaz. vol. 210; p. 1315.
- Suck, Charles M., Salem, W. Va. Fly-paper holder. No. 1,127,310; Feb. 2; Gaz. vol. 211; p. 226.
- Suck, Frederick A., Boston, Mass. Voting-machine. No. 1,145,817; July 6; Gaz. vol. 216; p. 294.
- Suckert, Harold C., New York, N. Y. Vacuum fuel-feeding system. No. 1,162,819; Dec. 7; Gaz. vol. 221; p. 31.
- Suckert, Julius J. (See Iden and Suckert.)
- Suckno, Samuel. (See Stone, Abraham J., assignor.)
- Suddard, Thomas W., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Printer's galley. No. 1,126,913; Feb. 2; Gaz. vol. 211; p. 87.
- Suddick, Louise F., De Soto, Mo. Plant-shield. No. 1,142,991; June 15; Gaz. vol. 215; p. 744.
- Sudlah, Esther. (See Sudlah, Rachel and E.)
- Sudlah, Rachel, New York, N. Y. Soft fold-over collar. No. 1,154,943; Sept. 28; Gaz. vol. 218; p. 1001.
- Sudlah, Rachel and E., New York, N. Y. Lamp for burning metals. No. 1,146,973; July 20; Gaz. vol. 216; p. 740.
- Suffa, George A., Boston, Mass. Ophthalmotrope. No. 1,135,222; Apr. 13; Gaz. vol. 213; p. 448.
- Sugar Centrifugal Discharger Company. (See Roberts, Eugene, assignor.)
- Sugden, Lawrence. (See Riordan, Frederick J., assignor.)
- Suggs, James A., Safety Harbor, assignor of one-fourth to J. D. Jordan, St. Petersburg, Fla., and one-fourth to J. Phinny, Washington, D. C. Pruning implement. No. 1,124,552; Jan. 12; Gaz. vol. 210; p. 517.
- Suiter, Charles, Billings, Mont. Gold-extraction machine. No. 1,164,676; Dec. 21; Gaz. vol. 221; p. 765.
- Suiter, Charles, Billings, Mont. Superfine-gold extractor. No. 1,164,677; Dec. 21; Gaz. vol. 221; p. 766.
- Sulfer, Charles, Chicago, Ill., assignor to Dial Cash Register Company, Milwaukee, Wis. Total-adding cash-register. No. 1,135,551; Apr. 13; Gaz. vol. 213; p. 563.
- Sulfer, Charles, Chicago, Ill., assignor to Dial Cash Register Company, Milwaukee, Wis. Registering mechanism. No. 1,135,552; Apr. 13; Gaz. vol. 213; p. 563.
- Sulfer, Charles, assignor to Dial Cash Register Company, Milwaukee, Wis. Keyboard. No. 1,135,553; Apr. 13; Gaz. vol. 213; p. 564.
- Sulfer, Charles, assignor to Dial Cash Register Company, Milwaukee, Wis. Sales-indicator for cash-registers. No. 1,135,554; Apr. 13; Gaz. vol. 213; p. 564.
- Sulfer, Charles, assignor to Dial Cash Register Company, Milwaukee, Wis. Recording mechanism. No. 1,135,555; Apr. 13; Gaz. vol. 213; p. 564.
- Sullender, Walter C., St. Louis, Mo. Camera-shutter. No. 1,153,141; Sept. 7; Gaz. vol. 218; p. 273.
- Sullinberger, Samuel R. (See Tagart, Whitfield M., assignor.)
- Sullivan, Charles C., and L. P. Davis, New Orleans, La. Stump remover and destroyer. No. 1,153,270; Sept. 14; Gaz. vol. 218; p. 358.
- Sullivan, Charles E., Mill City, Oreg. Logging butt-hook. No. 1,161,751; Nov. 23; Gaz. vol. 220; p. 1307.
- Sullivan, Charles F., deceased, Des Moines, Iowa; V. A. Sullivan, administratrix. Projectile. No. 1,152,668; Sept. 7; Gaz. vol. 218; p. 107.
- Sullivan, Charles W., Los Angeles, Cal. Safety attachment for boilers. No. 1,157,058; Oct. 19; Gaz. vol. 219; p. 660.
- Sullivan, Daniel, Flint, Mich. Handle-fastener. No. 1,124,073; Jan. 5; Gaz. vol. 210; p. 297.
- Sullivan, Daniel D., Fargo, N. D. Display and vending apparatus for spectacles. No. 1,132,406; Mar. 16; Gaz. vol. 212; p. 970.
- Sullivan, Edward E., Haverhill, Mass. Last. No. 1,125,601; Jan. 19; Gaz. vol. 210; p. 925.
- Sullivan, Eugene C., and W. C. Taylor, assignors to Corning Glass Works, Corning, N. Y. Glass. No. 1,151,911; Aug. 31; Gaz. vol. 217; p. 1471.
- Sullivan, George F., Cambridge, assignor of one-third to J. Lasher, Everett, and one-third to J. K. Sullivan, Cambridge, Mass. Chuck for web-spindles. No. 1,136,627; Apr. 20; Gaz. vol. 213; p. 984.
- Sullivan, Harry, Milwaukee, Wis. Adjustable-stroke mechanism. No. 1,128,544; Feb. 16; Gaz. vol. 211; p. 748.
- Sullivan, Herbert W. (See Hay and Sullivan.)
- Sullivan, James E., Pawtucket, R. I. Adjusting device for draft-regulators for steam-boilers. No. 1,143,737; June 22; Gaz. vol. 215; p. 1027.
- Sullivan, Jerome T., Collis, Minn. Tool-retainer. No. 1,137,923; May 4; Gaz. vol. 214; p. 70.
- Sullivan, Jerry. (See Sweeney and Sullivan.)
- Sullivan, John H., Racine, Wis. Capsule-filling device. No. 1,124,674; Jan. 12; Gaz. vol. 210; p. 561.
- Sullivan, John J., Holyoke, Mass. Gas-valve. No. 1,126,914; Feb. 2; Gaz. vol. 211; p. 87.
- Sullivan, John J., Holyoke, Mass. Emergency shut-off apparatus for gas or other fluids. No. 1,165,554; Dec. 28; Gaz. vol. 221; p. 1109.
- Sullivan, John J., Ipswich, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Heel-breasting machine. No. 1,129,136; Feb. 23; Gaz. vol. 211; p. 990.
- Sullivan, John J., Ipswich, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Heel-breasting machine. No. 1,129,137; Feb. 23; Gaz. vol. 211; p. 991.
- Sullivan, John J., Ipswich, Mass., and A. F. Field, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Button-sewing machine. No. 1,149,474; Aug. 10; Gaz. vol. 217; p. 454.

- Sullivan, John J., Ipswich, Mass., and A. F. Fifield, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Thread-cutting mechanism. No. 1,151,735; Aug. 31; Gaz. vol. 217; p. 1408.
- Sullivan, John P., assignor of one-fifth to E. E. Book-miller, Memphis, Tenn. Compound for treating lumber. No. 1,146,212; July 13; Gaz. vol. 216; p. 453.
- Sullivan, Joseph F., assignor to H. A. Budd, New York, N. Y. Necktie. No. 1,129,138; Feb. 23; Gaz. vol. 211; p. 991.
- Sullivan, Joseph T., *et al.*, executors. (See Turnbull, Walter J.)
- Sullivan Machinery Company. (See Ball, Albert, assignor.)
- Sullivan Machinery Company. (See Ball and Mercer, assignors.)
- Sullivan Machinery Company. (See Gillman, George H., assignor.)
- Sullivan Machinery Company. (See McCormack, Patrick F., assignor.)
- Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
- Sullivan Machinery Company. (See Mercer and Champagne, assignors.)
- Sullivan Machinery Company. (See Nelson, Sven T., assignor.)
- Sullivan Machinery Company. (See Officer, Thomas, assignor.)
- Sullivan Machinery Company. (See Weiner, Rudolph S., assignor.)
- Sullivan, Maurice P., New York, N. Y., assignor to L. F. Benton Company. Spark-plug. No. 1,163,281; Dec. 7; Gaz. vol. 221; p. 191.
- Sullivan, Michael F., assignor to Automatic Railway Street and Station Indicator and Advertising Co., San Francisco, Cal. Indicator. No. 1,128,196; Feb. 9; Gaz. vol. 211; p. 577.
- Sullivan, Michael H., Poughkeepsie, N. Y. Turbine-wheel and casing therefor. No. 1,130,444; Mar. 2; Gaz. vol. 212; p. 210.
- Sullivan, Mortimer L., *et al.* (See Thayer, Charles H., assignor.)
- Sullivan, Patrick J., San Francisco, Cal. Ironing-board cabinet. No. 1,129,315; Feb. 23; Gaz. vol. 211; p. 1052.
- Sullivan, Stephen F. (See Mooney, Thomas H., assignor.)
- Sullivan, Thomas M., *et al.* (See Woolf, Frank H., assignor.)
- Sullivan, Virginia A., administratrix. (See Sullivan, Charles F.)
- Sullivan, William L., Ferguson, Mo. Ticket-issuing machine. No. 1,145,818; July 6; Gaz. vol. 216; p. 295.
- Sullivan, William M., Blenville, La. Metallic railway-tie. No. 1,126,125; Jan. 26; Gaz. vol. 210; p. 1147.
- Sultzbaugh, Harry L., assignor to Universal Pencil Company, Chicago, Ill. Vending-machine. No. 1,131,015; Mar. 9; Gaz. vol. 212; p. 442.
- Sulzter, William F. (See Levi and Sulzter.)
- Sulzberger, Nathan, New York, N. Y. Flavoring oil. No. 1,127,545; Feb. 9; Gaz. vol. 211; p. 348.
- Sulzberger, Nathan, New York, N. Y. Aromatizing fats and oils and the products derived from the same. No. 1,140,629; May 25; Gaz. vol. 214; p. 1132.
- Sulzberger, Nathan, New York, N. Y. Catalyst containing silicon and making same. No. 1,143,332; June 15; Gaz. vol. 215; p. 864.
- Sulzberger, Nathan, New York, N. Y. Process for making and product containing albuminous matter from animal or vegetable origin. No. 1,160,783; Nov. 16; Gaz. vol. 220; p. 922.
- Sulzberger, Nathan, New York, N. Y. Reduction by means of hydrazin or the like. No. 1,164,141; Dec. 14; Gaz. vol. 221; p. 538.
- Sulzer, Georg, Harrison, N. J., assignor to Henry R. Worthington, New York, N. Y. Multistage centrifugal pump. No. 1,129,139; Feb. 23; Gaz. vol. 211; p. 991.
- Summeril, Frank H., Denver, Colo. Power-transmission mechanism. No. 1,145,819; July 6; Gaz. vol. 216; p. 295.
- Summeril, Frank H., Denver, Colo. Internal-combustion engine. No. 1,145,820; July 6; Gaz. vol. 216; p. 295.
- Summers, Bertrand S., Port Huron, Mich., assignor to Summers Linen Company. Preparing bast fiber, such as flax or hemp, for spinning. No. 1,127,311; Feb. 2; Gaz. vol. 211; p. 226.
- Summers, Caleb E., and C. B. Larmon, Wichita, Kans. Acetylene-gas tank. No. 1,162,113; Nov. 30; Gaz. vol. 220; p. 1482.
- Summers, Charles G., Jr., assignor to Chas. G. Summers & Co., Inc., Baltimore, Md. Sample-can. No. 1,161,012; Nov. 16; Gaz. vol. 220; p. 1002.
- Summers, Edgar W., Pittsburg, Pa. Railway-car truck. No. 1,144,392; June 29; Gaz. vol. 215; p. 1286.
- Summers, Edgar W., Pittsburg, Pa. Railway-car truck. No. 1,158,331; Oct. 26; Gaz. vol. 219; p. 1169.
- Summers, Edgar W., Pittsburg, Pa., assignor to W. P. Murphy, Chicago, Ill. Railway-car-roof construction. No. 1,133,335; Mar. 30; Gaz. vol. 212; p. 1392.
- Summers, Leland L., Chicago, Ill. Process for producing reactions in gases at high temperatures and apparatus for practising the same. No. 1,125,208; Jan. 19; Gaz. vol. 210; p. 786.
- Summers, Leland L., Chicago, Ill. Furnace. No. 1,127,824; Feb. 9; Gaz. vol. 211; p. 448.
- Summers, Leland L., Chicago, Ill. Process for the synthesis of gases. No. 1,130,940; Mar. 9; Gaz. vol. 212; p. 417.
- Summers, Leland L., Chicago, Ill. Process for producing reactions in gases and apparatus for practising the same. No. 1,130,941; Mar. 9; Gaz. vol. 212; p. 417.
- Summers, Leland L., Chicago, Ill. Coke-oven. No. 1,155,526; Oct. 5; Gaz. vol. 219; p. 71.
- Summers, Lewis E., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Power-hammer. No. 1,161,907; Nov. 30; Gaz. vol. 220; p. 1409.
- Summers Linen Company. (See Summers, Bertrand S., assignor.)
- Summers, Rufus A., Opdyke, Ill. Railway-tie. No. 1,151,062; Aug. 24; Gaz. vol. 217; p. 1133.
- Summers, William M., Paris, Oreg. Animal-stall. No. 1,150,315; Aug. 17; Gaz. vol. 217; p. 818.
- Summerville, John O., Minneapolis, Minn. Automatic wagon-brake. No. 1,164,678; Dec. 21; Gaz. vol. 221; p. 766.
- Sumner, Arthur D., and R. O. Wilson, Los Angeles, Cal., assignors of fifty-one one-hundredths to Los Angeles Can Company. Tool for capping and double-seaming cans. No. 1,124,553; Jan. 12; Gaz. vol. 210; p. 517.
- Sumner, Emily H. (See Sumner, Orlando and E. H.)
- Sumner, Frederick W., Canton, Mass. Electric stop device for knitting-machines. No. 1,129,614; Feb. 23; Gaz. vol. 211; p. 1158.
- Sumner, Orlando and E. H., St. Margarets-on-Thames, England. Apparatus for bleaching, dyeing, and the like. No. 1,133,759; Mar. 30; Gaz. vol. 212; p. 1544.
- Sumner, Walter J., Minneapolis, Minn. Wood-polishing machine. No. 1,150,155; Aug. 17; Gaz. vol. 217; p. 762.
- Sumpter, Ernest W. (See Carence and Sumpter.)
- Sumter Electrical Company. (See Mason, Charles T., assignor.)
- Sumter Electrical Company. (See Warren, Robert M., assignor.)
- Sumter Machinery Co., The. (See Siddall, Thomas H., assignor.)
- Sun Typewriter Company, The. (See Howell, Charles W., Jr., assignor.)
- Sunblad, Uno L., New Haven, Conn. Self-winding electric clock. No. 1,143,664; June 22; Gaz. vol. 215; p. 1003.
- Sundal, Theodore A., Taber, Alberta, Canada. Margin-indicator for type-writers. No. 1,161,422; Nov. 23; Gaz. vol. 220; p. 1195.
- Sunday, William. (See Weiss, Otto, assignor.)
- Sunde, Emil R. (See Holmes, Joseph W., assignor.)
- Sundee, John R., assignor to Warner Jewelry Case Company, Buffalo, N. Y. Spring-ld jewelry-box. No. 1,161,166; Nov. 23; Gaz. vol. 220; p. 1103.
- Sundh, August. (See Baldwin and Sundh.)
- Sundh, August. (See Scott and Sundh.)
- Sundh, August, Hastings-upon-Hudson, N. Y. Combined friction and spur gearing. No. 1,127,313; Feb. 2; Gaz. vol. 211; p. 226.
- Sundh, August, Hastings-upon-Hudson, N. Y. Lubricating mechanism. No. 1,132,748; Mar. 23; Gaz. vol. 212; p. 1144.
- Sundh, August, Hastings-upon-Hudson, N. Y. Illuminating device. No. 1,136,378; Apr. 20; Gaz. vol. 213; p. 895.
- Sundh, August, Hastings-upon-Hudson, N. Y. Gate-hinge. No. 1,136,379; Apr. 20; Gaz. vol. 213; p. 896.
- Sundh, August, Hastings-upon-Hudson, N. Y. Coupling for flexible tubing. No. 1,139,821; May 18; Gaz. vol. 214; p. 812.
- Sundh, August, Hastings-upon-Hudson, N. Y. Gate-hinge. No. 1,139,822; May 18; Gaz. vol. 214; p. 813.
- Sundh, August, Hastings-upon-Hudson, N. Y. Hinge. No. 1,141,989; June 8; Gaz. vol. 215; p. 353.
- Sundh, August, Hastings-upon-Hudson, N. Y. Hinge mechanism. No. 1,155,452; Oct. 5; Gaz. vol. 219; p. 44.
- Sundh, August, Hastings-upon-Hudson, N. Y. Gate-hinge. No. 1,156,943; Oct. 19; Gaz. vol. 219; p. 618.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Muffled spur-gearing. No. 1,127,312; Feb. 2; Gaz. vol. 211; p. 226.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Speed-changing apparatus. No. 1,134,772; Apr. 6; Gaz. vol. 213; p. 253.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Speed-reducing gearing. No. 1,159,608; Nov. 9; Gaz. vol. 220; p. 452.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Indicator. No. 1,159,609; Nov. 9; Gaz. vol. 220; p. 452.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company. Fluid motor or pump. No. 1,159,610; Nov. 9; Gaz. vol. 220; p. 452.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company. Fluid motor or pump. No. 1,159,611; Nov. 9; Gaz. vol. 220; p. 453.

Alphabetical list of patentees—Continued.

- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company. Controlling apparatus. No. 1,159,612; Nov. 9; Gaz. vol. 220; p. 453.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Otis Elevator Company. Fluid motor or pump. No. 1,159,613; Nov. 9; Gaz. vol. 220; p. 454.
- Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Self-adjusting pivotal bearing. No. 1,132,745; Mar. 23; Gaz. vol. 212; p. 1143.
- Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Automatic clutch. No. 1,132,746; Mar. 23; Gaz. vol. 212; p. 1143.
- Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Rotary gear-pump. No. 1,132,747; Mar. 23; Gaz. vol. 212; p. 1143.
- Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Power transmitting and controlling mechanism. No. 1,134,770; Apr. 6; Gaz. vol. 213; p. 252.
- Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Means for controlling variable mechanism. No. 1,134,771; Apr. 6; Gaz. vol. 213; p. 252.
- Sundh, August, Yonkers, assignor to Otis Elevator Company, New York, N. Y. Controlling apparatus for electric-railway cars. No. 1,160,959; Nov. 16; Gaz. vol. 220; p. 984.
- Sundh Electric Company. (See Smith, Frank W., assignor.)
- Sundries Manufacturing Company. (See Boardman, Charles H., assignor.)
- Sundvik, Fred, and C. Johansson, St. Paul, Minn. Animal-releasing device. No. 1,165,727; Dec. 28; Gaz. vol. 221; p. 1172.
- Sunshine, Monroe, New York, N. Y. Sad-iron. No. 1,124,074; Jan. 5; Gaz. vol. 210; p. 297.
- Sunvold, Herman H., Sacred Heart, Minn. Rear-axle truss. No. 1,144,443; June 29; Gaz. vol. 215; p. 1303.
- Supan, Milton C., Red Bluff, Cal. Gate-operating mechanism. No. 1,162,954; Dec. 7; Gaz. vol. 221; p. 76.
- Supanz, Georg, Vienna, Austria-Hungary. Vacuum-cleaner. No. 1,134,294; Apr. 6; Gaz. vol. 213; p. 77.
- Superior Brass and Fixture Co. (See Schoen, Abraham, assignor.)
- Superior Lamp Mfg. Co. (See Futterman, Harry, assignor.)
- Superior Metal Products Company, The. (See Eckenroad, Harvey C., assignor.)
- Superior Register Company. (See Moinet, Frank, assignor.)
- Superior Thermometer Company. (See Besemann, Charles A., assignor.)
- Superior Tubes and Accessories. (See Henderson, Albert E., assignor.)
- Supczynski, John. (See Tuleski, Bernard M., assignor.)
- Suprunowski, Joseph N., assignor of one-half to J. De Vault, Toledo, Ohio. Car attachment. No. 1,129,755; Feb. 23; Gaz. vol. 211; p. 1202.
- Sure Seal Manufacturing Company. (See Tillinghast, Wallace B., assignor.)
- Suren, Nathan H., Needham, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire-alarm system. No. 1,132,499; Mar. 16; Gaz. vol. 212; p. 1005.
- Suren, Nathan H., Needham, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Relay. No. 1,145,940; July 13; Gaz. vol. 216; p. 356.
- Suren, Nathan H., Needham, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Fire-alarm-telegraph system. No. 1,145,941; July 13; Gaz. vol. 216; p. 357.
- Suren, Nathan H., Needham, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Relay. No. 1,145,942; July 13; Gaz. vol. 216; p. 357.
- Suren, Nathan H., Needham, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire-alarm box. No. 1,158,742; Nov. 2; Gaz. vol. 220; p. 115.
- Turner, Charles U. (See Brander and Turner.)
- Surprenant, George. (See Caron and Surprenant.)
- Surrell, John R., New York, N. Y. Boiler-furnace and feed-water heater. (Reissue.) No. 14,002; Oct. 26; Gaz. vol. 219; p. 1203.
- Surrell, John R., New York, N. Y. Boiler-furnace and feed-water heater. (Reissue.) No. 14,003; Oct. 26; Gaz. vol. 219; p. 1207.
- Surtz Guard Company. (See Jones, Emerald E., assignor.)
- Susemihl, Francis G., Detroit, Mich. Car side bearing. No. 1,132,749; Mar. 23; Gaz. vol. 212; p. 1144.
- Sutch, Edwin S., Philadelphia, Pa. Worm-drive for automobiles. No. 1,163,483; Dec. 7; Gaz. vol. 221; p. 261.
- Sutcliffe, John H., assignor to George Culver Ltd., London, England. Ophthalmometer and ceratometer. No. 1,142,778; June 8; Gaz. vol. 215; p. 629.
- Sutcliffe, William C., Lismore, New Zealand. Non-refillable bottle. No. 1,130,856; Mar. 9; Gaz. vol. 212; p. 387.
- Sutherland, Alexander W., St. Paul, Minn. Tractor. No. 1,142,066; June 8; Gaz. vol. 215; p. 381.
- Sutherland, Daniel M., Jr., Trenton, assignor to The Agasote Millboard Co., Ewing township, N. J. Imitation wood. No. 1,153,970; Sept. 21; Gaz. vol. 218; p. 640.
- Sutherland, Emil T., Iron River, Mich. Road-making machine. No. 1,144,444; June 29; Gaz. vol. 215; p. 1303.
- Sutherland, Forrest A., Springfield, Me. Controlling-plug for gasoline-filters. No. 1,142,992; June 15; Gaz. vol. 215; p. 744.
- Sutherland, George W., Newport, Wash. Device for stretching wire around wooden pipes. No. 1,154,275; Sept. 21; Gaz. vol. 218; p. 744.
- Sutherland, Holton J., Swampscott, and J. H. Sutherland, Lynn, Mass. Pattern-binding machine. No. 1,135,469; Apr. 13; Gaz. vol. 213; p. 534.
- Sutherland, John H. (See Sutherland, Holton J. and J. H.)
- Sutherland, Walter R., Salem, assignor of one-fourth to E. Cook and one-fourth to C. A. Cook, Danvers, Mass. Machine for applying toggles to skins. No. 1,138,328; May 4; Gaz. vol. 214; p. 214.
- Sutherland, Walter R., Salem, assignor of one-fourth to E. Cook and one-fourth to C. A. Cook, Danvers, Mass. Machine for applying toggles to skins. No. 1,138,329; May 4; Gaz. vol. 214; p. 214.
- Sutkay, Joseph, assignor of one-half to F. P. Gibbs, Lake Arthur, La. Mail-receptacle. No. 1,140,205; May 18; Gaz. vol. 214; p. 947.
- Sutkay, Joseph, assignor of one-third to R. Le Dour, Laurens, La. Rail-joint. No. 1,158,332; Oct. 26; Gaz. vol. 219; p. 1169.
- Sutliff, Archibald E., Syracuse, N. Y., assignor to Sargent & Company, New Haven, Conn. Key-cutting machine. No. 1,156,642; Oct. 12; Gaz. vol. 219; p. 434.
- Sutliff, Warren J., Schenectady, N. Y. Journal-box. No. 1,126,126; Jan. 26; Gaz. vol. 210; p. 1147.
- Sutphen, Frederick A., Aurora, Ill. Collar-button. No. 1,150,644; Aug. 17; Gaz. vol. 217; p. 933.
- Sutphin, William P., The Plains, Va. Cultivator. No. 1,128,197; Feb. 9; Gaz. vol. 211; p. 578.
- Sutro, Harry H., deceased; V. Sutro, administrator, New York, N. Y., assignor to L. M. Booth Company. Apparatus for measuring liquids. No. 1,138,700; May 11; Gaz. vol. 214; p. 380.
- Sutro, Victor, administrator. (See Sutro, Harry H.)
- Sutter, Edward, Burke, S. D. Collapsible ironing-board. No. 1,156,643; Oct. 12; Gaz. vol. 219; p. 485.
- Sutter, John R., Kansas City, Mo. Lantern. No. 1,143,238; June 15; Gaz. vol. 215; p. 832.
- Sutton, Eugene S., Everett, Wash. Milk-pail. No. 1,165,555; Dec. 28; Gaz. vol. 221; p. 1109.
- Sutton, George Z., Philadelphia, assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Quick-opening box. No. 1,152,355; Aug. 31; Gaz. vol. 217; p. 1624.
- Sutton, Granberry. (See Ferebee and Sutton.)
- Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Process of and apparatus for separating and grading seeds. No. 1,133,760; Mar. 30; Gaz. vol. 212; p. 1545.
- Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Process of and apparatus for classifying comminuted material. No. 1,136,293; Apr. 20; Gaz. vol. 213; p. 865.
- Sutton, Henry M., W. L. and E. G. Steele, Dallas, Tex. Process of and apparatus for sizing or classifying comminuted materials. No. 1,141,852; June 1; Gaz. vol. 215; p. 266.
- Sutton, Joseph, Medora, Manitoba, Canada. Hitching device. No. 1,149,967; Aug. 10; Gaz. vol. 217; p. 633.
- Sutton, Roy J. (See Pike and Sutton.)
- Sutton, William L., Niwot, Colo. Land-leveler. No. 1,164,142; Dec. 14; Gaz. vol. 221; p. 539.
- Sutton, William S., Rockford, assignor to American Radiator Company, Chicago, Ill. Valve. No. 1,140,630; May 25; Gaz. vol. 214; p. 1132.
- Sutton, William S., Rockford, Ill., assignor to Houston Manufacturing Company. Cleaning screens of vacuum-cleaning apparatus. No. 1,157,131; Oct. 19; Gaz. vol. 219; p. 686.
- Suwa, Michisuye, Tokyo, Japan. Automatic telephone signaling system. No. 1,142,857; June 15; Gaz. vol. 215; p. 696.
- Suzaki, George K. (See Yamada and Suzaki.)
- Suzuki, Tozaburo, Tokyo, Japan. Automatically-acting horizontal drying-machine. No. 1,126,587; Jan. 26; Gaz. vol. 210; p. 1315.
- Suzzi, Taddeo C., assignor to Ginocchio, Costa & Co., Chicago, Ill. Nut-cracking machine. No. 1,123,950; Jan. 5; Gaz. vol. 210; p. 255.
- Svalin, Ivar H., Motala Verkstad, Sweden. Internal-combustion engine. No. 1,129,316; Feb. 23; Gaz. vol. 211; p. 1052.
- Svalland, Martin, Oakland, Cal. Ink-dispensing device. No. 1,125,892; Jan. 19; Gaz. vol. 210; p. 1028.
- Svalling, Gustaf. (See Fagerlund and Börjeson, assignors.)
- Sveinson, Helgi, Lundar, Manitoba, Canada. Plow. No. 1,145,943; July 13; Gaz. vol. 216; p. 358.
- Svensen, Alfred, Fredericia, Denmark. Apparatus for smoothing building-wood and for treating raw logs and trunks. No. 1,139,383; May 11; Gaz. vol. 214; p. 621.
- Svensen, Jens S., Hammond, Ind. Foldable canvas boat. No. 1,134,773; Apr. 6; Gaz. vol. 213; p. 253.

- Sveuska Aktiebolaget Gasaccumulator. (See Dalén, Gustaf, assignor.)
- Svenson, Arthur R., Richmond Hill, N. Y. Can and closure therefor. No. 1,160,010; Nov. 9; Gaz. vol. 220; p. 595.
- Svenson, Charles W., assignor to The American Hardware Corporation, New Britain, Conn. Cast-off device for recorders. No. 1,130,119; Mar. 2; Gaz. vol. 212; p. 96.
- Svenson, Charles W., assignor to The American Hardware Corporation, New Britain, Conn. Dust-cap for wheel-hubs and the like. No. 1,135,960; Apr. 13; Gaz. vol. 213; p. 707.
- Svenson, Charles W., assignor to The American Hardware Corporation, New Britain, Conn. Flexible tubing. No. 1,140,417; May 25; Gaz. vol. 214; p. 1056.
- Svenson, Henry E., New York, N. Y. Electrical outlet-box. No. 1,164,236; Dec. 14; Gaz. vol. 221; p. 568.
- Svensson, Johan A., Rochester, N. Y. Gear-cutting machine. No. 1,143,602; June 15; Gaz. vol. 215; p. 958.
- Sverdrup, William. (See Lagermarck and Sverdrup.)
- Svoboda, Mike J., Chicago, Ill. Safety-lock for gas-valves. No. 1,151,304; Aug. 24; Gaz. vol. 217; p. 1216.
- Swabb, Matthew W., Johnstown, Pa. Copy-holder. No. 1,160,211; Nov. 16; Gaz. vol. 220; p. 719.
- Swackhammer, Charles A., Cottam, Ontario, Canada. Rotary valve. No. 1,140,206; May 18; Gaz. vol. 214; p. 948.
- Swafford, Levi W., assignor of one-half to B. W. Griffith, Vicksburg, Miss. Buckle for cotton-ties, &c. No. 1,163,870; Dec. 14; Gaz. vol. 221; p. 443.
- Swain, Arvel E., Osage, Okla. Machine for truing standing-valve packing-rings. No. 1,165,635; Dec. 28; Gaz. vol. 221; p. 1139.
- Swain, Charles R., Richmond Hill, N. Y., assignor, by mesne assignments, to Fisher Thread-Drawing Machine Company. Thread-drawing machine. No. 1,145,092; July 6; Gaz. vol. 216; p. 43.
- Swain, Fred W., North Chelmsford, assignor to C. G. Sargent's Sons Corporation, Granville, Mass. Rake-operating device for wool-washing machines. No. 1,164,888; Dec. 21; Gaz. vol. 221; p. 838.
- Swain, Hadwen, San Francisco, Cal. Waterproof fabric and manufacturing same. No. 1,152,349; Aug. 31; Gaz. vol. 217; p. 1622.
- Swain, Lewis C., Oakland, Cal. Mechanical annunciator. No. 1,140,631; May 25; Gaz. vol. 214; p. 1133.
- Swailes, Frank, Holloway, London, England. Mouth-gag for horses and other animals. No. 1,130,346; Mar. 2; Gaz. vol. 212; p. 175.
- Swailes, John W., Oakland, Cal. Aeroplane. No. 1,150,233; Aug. 17; Gaz. vol. 217; p. 789.
- Swallow, Joseph G., New York, N. Y. Electric pocket-lamp. No. 1,124,075; Jan. 5; Gaz. vol. 210; p. 298.
- Swallow, Stuart H., assignor to W. H. Coe Manufacturing Company, Providence, R. I. Metallic-leaf-applying device. No. 1,136,497; Apr. 20; Gaz. vol. 213; p. 939.
- Swalm, William E., Los Angeles, Cal., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,131,620; Mar. 9; Gaz. vol. 212; p. 651.
- Swan, Alfred F., Jersey City, N. J. Truss. No. 1,149,868; Aug. 10; Gaz. vol. 217; p. 597.
- Swan, Benjamin, St. Pancras, London, England. Starting device for internal-combustion engines. No. 1,148,635; Aug. 3; Gaz. vol. 217; p. 54.
- Swan, John H., assignor to Klipfel Manufacturing Co., Chicago, Ill. Valve-operating mechanism. No. 1,157,059; Oct. 19; Gaz. vol. 219; p. 661.
- Swan, John J. (See Baker and Swan.)
- Swan, John W., Los Angeles, Cal. Carbureter. No. 1,126,127; Jan. 26; Gaz. vol. 210; p. 1147.
- Swan, William H. (See McKenney, Swan, and Peacock.)
- Swan, William W., Frankfort, S. D. Automatic controller for flying-machines. No. 1,150,903; Aug. 24; Gaz. vol. 217; p. 1079.
- Swanberg, Claud, Cadillac, Mich. Drill attachment. No. 1,138,423; May 4; Gaz. vol. 214; p. 248.
- Swanberg, Swan T., Denver, Colo. Noiseless float-valve. No. 1,158,743; Nov. 2; Gaz. vol. 220; p. 116.
- Swanburg, Frits O., Evanston, Ill. Derrick. No. 1,164,679; Dec. 21; Gaz. vol. 221; p. 766.
- Swanda, James, Cleveland, Ohio. Friction-clutch. No. 1,161,423; Nov. 23; Gaz. vol. 220; p. 1196.
- Swangren, Edwin V. (See Nelson, Ostlin, and Swangren.)
- Swangren, Edwin V., and M. E. Widell, Maywood, Ill., assignors to American Can Company, New York, N. Y. Air can-testing machine. No. 1,152,449; Sept. 7; Gaz. vol. 218; p. 23.
- Swank, Arthur H., Fremont, Ohio. Manicuring instrument. No. 1,155,880; Oct. 5; Gaz. vol. 219; p. 19.
- Swank, Lafe, assignor to Dwiggin's Wire Fence Company, Anderson, Ind. Gate-latch. No. 1,127,825; Feb. 9; Gaz. vol. 211; p. 449.
- Swank, Lafe, assignor to Dwiggin's Wire Fence Company, Anderson, Ind. Gate-latch. No. 1,141,080; May 25; Gaz. vol. 214; p. 1286.
- Swank, William, Altoona, Pa. Camera. No. 1,133,891; Mar. 30; Gaz. vol. 212; p. 1592.
- Swank, William, Altoona, Pa. Display or advertising clock. No. 1,160,461; Nov. 16; Gaz. vol. 220; p. 805.
- Swanlund, Axel W. (See Hasberg and Swanlund.)
- Swanson, August, Cedar Rapids, Iowa. Power-transmitting mechanism. No. 1,128,545; Feb. 16; Gaz. vol. 211; p. 748.
- Swanson, Carl W., Chicago, Ill. Gearing. No. 1,156,564; Oct. 12; Gaz. vol. 219; p. 457.
- Swanson, Charles, San Jose, Cal. Lawn-mower attachment No. 1,135,071; Apr. 6; Gaz. vol. 213; p. 397.
- Swanson, Charles A., et al. (See Markham, Andrew J., assignor.)
- Swanson, Charles A., Chicago, Ill. Drinking-water bag. No. 1,123,951; Jan. 5; Gaz. vol. 210; p. 256.
- Swanson, Charles A., Earlville, Ill. Roof-valley. No. 1,152,236; Aug. 31; Gaz. vol. 217; p. 1583.
- Swanson, Charles H., assignor to The A & A Manufacturing Company, Chicago, Ill. Liquid-fuel burner. No. 1,135,072; Apr. 13; Gaz. vol. 213; p. 398.
- Swanson, Charles J., assignor to Interior Metal Manufacturing Company, Jamestown, N. Y. Metal door-trim. No. 1,150,790; Aug. 17; Gaz. vol. 217; p. 982.
- Swanson, Edward R., Granite City, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Chaplet. No. 1,160,785; Nov. 16; Gaz. vol. 220; p. 922.
- Swanson, Emil F., Galesburg, Ill. Vacuum-cleaner. No. 1,160,786; Nov. 16; Gaz. vol. 220; p. 922.
- Swanson, Ernest J., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Temperature-indicator. No. 1,144,009; June 22; Gaz. vol. 215; p. 1122.
- Swanson, John C., Buffalo, Minn. Endless cutting apparatus for mowing-machines and harvesters. No. 1,136,628; Apr. 20; Gaz. vol. 213; p. 984.
- Swanson, John E., Centerville, S. D. Safety-envelop. No. 1,124,358; Jan. 12; Gaz. vol. 210; p. 447.
- Swanson, Olof, Atchee, Colo. Lubricating device. No. 1,163,484; Dec. 7; Gaz. vol. 221; p. 262.
- Swanson, Oscar. (See Swanson, Sven and O.)
- Swanson, Starley S. (See Vrooman and Swanson.)
- Swanson, Stephen J., Riverton, Wyo. Extension car-step. No. 1,138,998; May 11; Gaz. vol. 214; p. 488.
- Swanson, Sven and O., Chicago, Ill. Combined rail joint and chair. No. 1,157,452; Oct. 19; Gaz. vol. 219; p. 800.
- Swanstrom, John M., Chicago, Ill. Fluid-pressure regulator. No. 1,159,431; Nov. 9; Gaz. vol. 220; p. 388.
- Swanton, John D., New Bedford, Mass. Shoe-cleaning guard. No. 1,126,314; Jan. 26; Gaz. vol. 210; p. 1215.
- Swanzey, James M., Biloxi, Miss. Mortise-lock. No. 1,162,664; Nov. 30; Gaz. vol. 220; p. 1666.
- Swarner, Charles H., Omaha, Nebr. Bundle-wagon for threshers. No. 1,135,073; Apr. 13; Gaz. vol. 213; p. 398.
- Swary, Melchior, assignor of one-half to E. Koels, Homestead, Pa. Anticreeping clamp for rails. No. 1,127,314; Feb. 2; Gaz. vol. 211; p. 227.
- Swarovski, Daniel, Wattens, Austria-Hungary. Manufacture of decorated glass plates or shaped glass stones. No. 1,162,114; Nov. 30; Gaz. vol. 220; p. 1483.
- Swartling, Henry. (See Smith and Swartling.)
- Swartwood, George, assignor of one-third to A. Krumm and one-third to L. J. Koeppen, Chicago, Ill. Bolter stay-bolt. No. 1,137,433; Apr. 27; Gaz. vol. 213; p. 1312.
- Swartz, Charles H., Coleridge, Nebr. Rail-joint. No. 1,124,554; Jan. 12; Gaz. vol. 210; p. 517.
- Swartz, Fred M., Providence, R. I. Vanity-clasp. No. 1,145,628; July 6; Gaz. vol. 216; p. 228.
- Swartz, John L., Akron, Ohio. Tubing-die. No. 1,133,892; Mar. 30; Gaz. vol. 212; p. 1592.
- Swartz, John W., East Liverpool, Ohio. Compartment fruit-car. No. 1,134,423; Apr. 6; Gaz. vol. 213; p. 123.
- Swartz, Martius K., Nisswa, Minn. Egg-carrier. No. 1,138,514; May 4; Gaz. vol. 214; p. 278.
- Swartz, Robert B. (See Stutler, Joseph T., assignor.)
- Swartz, William L., assignor to Savage Arms Company, Utica, N. Y. Firearm. No. 1,141,285; June 1; Gaz. vol. 215; p. 70.
- Swasey, George L. (See Colby and Swasey.)
- Swayne, Robinson and Co. (See Scott, Elisha H., assignor.)
- Sweedner, Charles A., et al. (See Hartman, Louis H., assignor.)
- Sweany, Harry J., Quapaw, Okla. Fraud-preventive for coin-controlled vending-machines. No. 1,128,385; Feb. 16; Gaz. vol. 211; p. 691.
- Sweany, Harry J., Quapaw, Okla. Vending-machine. No. 1,155,172; Sept. 28; Gaz. vol. 218; p. 1082.
- Swebilius, Carl G., and H. T. R. Hanitz, New Haven, Conn., assignors to Marlin Firearms Company. Safety mechanism for firearms. No. 1,129,527; Feb. 23; Gaz. vol. 211; p. 1127.
- Swebilius, Carl G., and H. T. R. Hanitz, assignors to The Marlin Firearms Company, New Haven, Conn. Repeating firearm. No. 1,146,536; July 13; Gaz. vol. 216; p. 568.
- Swebilius, Carl G., and H. T. R. Hanitz, assignors to The Marlin Firearms Company, New Haven, Conn. Repeating firearm. No. 1,147,659; July 20; Gaz. vol. 216; p. 980.
- Swebilius, Carl G., and H. T. R. Hanitz, assignors to The Marlin Firearms Company, New Haven, Conn. Firearm. No. 1,147,906; July 27; Gaz. vol. 216; p. 1093.

Alphabetical list of patentees—Continued.

- Swebilius, Carl G., and H. T. R. Hanitz, assignors to The Marlin Firearms Company, New Haven, Conn. Fire-arm. No. 1,149,795; Aug. 10; Gaz. vol. 217; p. 571.
- Swebilius, Carl G., and H. T. R. Hanitz, assignors to The Marlin Firearms Company, New Haven, Conn. Gun-sight. No. 1,150,791; Aug. 17; Gaz. vol. 217; p. 982.
- Swebilius, Carl G., and H. T. R. Hanitz, assignors to The Marlin Firearms Company, New Haven, Conn. Fire-arm. No. 1,157,656; Oct. 19; Gaz. vol. 219; p. 868.
- Swedberg, August, Kingston, Pa. Holder for stropping safety-razor blades. No. 1,162,888; Dec. 7; Gaz. vol. 221; p. 53.
- Swedlund, Erick J., Williston, N. D. Moving-picture machine. No. 1,124,971; Jan. 12; Gaz. vol. 210; p. 666.
- Sweeley, Edward H., Richmond Hill, N. Y. Lubricator. No. 1,147,986; July 27; Gaz. vol. 216; p. 1121.
- Sweeney, George K., Ghent, W. Va. Secret ditcher. No. 1,160,549; Nov. 16; Gaz. vol. 220; p. 837.
- Sweeney, James B., New York, N. Y. Spring structure. No. 1,125,891; Jan. 19; Gaz. vol. 210; p. 1028.
- Sweeney, John J., New York, N. Y. Work-table guard for power-presses. No. 1,137,550; Apr. 27; Gaz. vol. 213; p. 1350.
- Sweeney, John J., New York, N. Y. Pulley and driving-belt guard. No. 1,145,715; July 6; Gaz. vol. 216; p. 260.
- Sweeney, John T., Chillicothe, Mo. Smoke-stack attachment. No. 1,157,060; Oct. 19; Gaz. vol. 219; p. 661.
- Sweeney, John T., assignor to W. G. Browne Manufacturing Company, Kingston, N. Y. Combination-tool. No. 1,159,432; Nov. 9; Gaz. vol. 220; p. 389.
- Sweeney, Louis S., Abington, Mass. Machine for trimming the rands of boots and shoes. No. 1,135,223; Apr. 13; Gaz. vol. 213; p. 448.
- Sweeney, Walter C., Topeka, Kans. Poison-indicator. No. 1,157,338; Oct. 19; Gaz. vol. 219; p. 760.
- Sweeny, Luke, and J. Sullivan, Terre Haute, Ind. Rail-joint. No. 1,158,744; Nov. 2; Gaz. vol. 220; p. 116.
- Sweet, Benjamin W., assignor, by mesne assignments, to Interlocking Safety Block Machine Company, San Francisco, Cal. Molding-machine. No. 1,151,063; Aug. 24; Gaz. vol. 217; p. 1134.
- Sweet, Calvin A., Yankton, S. D. Hanger. No. 1,156,380; Oct. 12; Gaz. vol. 219; p. 392.
- Sweet, Frederick A., Salt Lake City, Utah. Mine-car wheel and axle. No. 1,141,990; June 8; Gaz. vol. 215; p. 353.
- Sweet, George E., Toronto, Ontario, Canada. Drinking-fountain and faucet. No. 1,156,190; Oct. 12; Gaz. vol. 219; p. 325.
- Sweet, Henry N., trustee. (See Smith, William J., assignor.)
- Sweet, Martin M., Chicago, Ill. Medical appliance. No. 1,155,527; Oct. 5; Gaz. vol. 219; p. 71.
- Sweet, Welcome F., and S. Tideman, St. Louis, Mo., assignors, by mesne assignments, to Simplex Adding Machine Company, San Antonio, Tex. Adding-machine. No. 1,128,546; Feb. 16; Gaz. vol. 211; p. 748.
- Sweet, William R., Wakefield, assignor of one-half to W. H. Griffith, Narragansett Pier, R. I. Automatic coupling for train-pipes. No. 1,150,717; Aug. 17; Gaz. vol. 217; p. 957.
- Sweetland, Ernest J., Montclair, N. J. Filter medium or other article of manufacture. No. 1,147,279; July 20; Gaz. vol. 216; p. 845.
- Sweeton, Frederic C., et al. (See Mentzer, Oliver A., assignor.)
- Sweizard, Emanuel W., Chicago, Ill. Printing-frame. No. 1,132,046; Mar. 16; Gaz. vol. 212; p. 839.
- Sweizard, Emanuel W., Chicago, Ill. Printing-frame clamp. No. 1,146,974; July 20; Gaz. vol. 216; p. 740.
- Sweizard, Emanuel W., Chicago, Ill. Photographic copy-holder. No. 1,147,196; July 20; Gaz. vol. 216; p. 817.
- Swem, Lawrence W., assignor to E. L. Webb & Co., West Liberty, Iowa. Ring-expanding press. No. 1,154,893; Sept. 28; Gaz. vol. 218; p. 983.
- Swenson, Anton A. (See Schold and Swenson.)
- Swenson, Carl E., Rockford, Ill. Universal joint. No. 1,163,871; Dec. 14; Gaz. vol. 221; p. 444.
- Swenson, Carl E., assignor to Mechanics' Machine Co., Rockford, Ill. Clutch. No. 1,162,115; Nov. 30; Gaz. vol. 220; p. 1483.
- Swenson, Carl E., and L. Faust, assignors to Mechanics' Machine Company, Rockford, Ill. Transmission mechanism. No. 1,143,794; June 22; Gaz. vol. 215; p. 1046.
- Swenson, Gustav, New York, N. Y. Square, level, and plumb device. No. 1,123,952; Jan. 5; Gaz. vol. 210; p. 256.
- Swenson, John S., assignor to Electra Lightning Rod Company, Cresco, Iowa. Lightning-rod low top. No. 1,127,696; Feb. 9; Gaz. vol. 211; p. 398.
- Swenson, John S., assignor to Electra Lightning Rod Company, Cresco, Iowa. Lightning-rod high top. No. 1,128,261; Feb. 9; Gaz. vol. 211; p. 599.
- Swenson, Paul, Hopkins, Minn. Heater for gaseous fluids. No. 1,133,825; Mar. 30; Gaz. vol. 212; p. 1569.
- Swenson, Sanford A., Groton, S. D. Protecting-jacket for valve-stems. No. 1,127,107; Feb. 2; Gaz. vol. 211; p. 157.
- Swensson, Nels A., Denver, Colo. Operating mechanism for pumps. No. 1,150,553; Aug. 17; Gaz. vol. 217; p. 902.
- Swett, Clinton T. (See Ross, John D., assignor.)
- Swezey, Benjamin F., Bellingham, Minn. Device for preventing snow-drifts. No. 1,144,393; June 29; Gaz. vol. 215; p. 1286.
- Swickard, Frank, Franklin Grove, Ill. Device for securing curtains. No. 1,154,670; Sept. 28; Gaz. vol. 218; p. 910.
- Swiergocki, John, Chicago, Ill. Soldering-iron. No. 1,153,971; Sept. 21; Gaz. vol. 218; p. 640.
- Swift, Charles S., New York, N. Y. Sash-holder. No. 1,159,614; Nov. 9; Gaz. vol. 220; p. 454.
- Swift and Company. (See Moore, Herbert H., assignor.)
- Swift and Company. (See Richardson, William D., assignor.)
- Swift, Edward A., Seattle, Wash. Loading and unloading apparatus. No. 1,164,143; Dec. 14; Gaz. vol. 221; p. 539.
- Swift, Ernest H. and M. H., assignors to M. Swift & Sons, Hartford, Conn. Roll for holding metallic films for printing. No. 1,150,156; Aug. 17; Gaz. vol. 217; p. 763.
- Swift and Fisher. (See Swift, Joseph H., assignor.)
- Swift, George L., Chicago, Ill. Fuel-feeding apparatus. No. 1,140,207; May 18; Gaz. vol. 214; p. 948.
- Swift, George W., Jr., Bordentown, N. J. Paper-feeding mechanism. No. 1,126,128; Jan. 26; Gaz. vol. 210; p. 1148.
- Swift, George W., Jr., Bordentown, N. J. Ball making and inserting mechanism. No. 1,129,919; Mar. 2; Gaz. vol. 212; p. 30.
- Swift, George W., Jr., Bordentown, N. J. Envelop. No. 1,151,305; Aug. 24; Gaz. vol. 217; p. 1216.
- Swift, George W., Jr., Bordentown, N. J. Paper receptacle. No. 1,158,581; Nov. 2; Gaz. vol. 220; p. 60.
- Swift, George W., Jr., Bordentown, N. J., assignor, by mesne assignments, to Corrugated Paper Patents Co., Dayton, Ohio. Machine for facing corrugated paper. (Reissue.) No. 13,863; Jan. 5; Gaz. vol. 210; p. 365.
- Swift, Harvey H. (See Matthews, William J., assignor.)
- Swift, Joseph H., assignor to Swift and Fisher, North Attleboro, Mass. Cigar-tip cutter. No. 1,136,182; Apr. 20; Gaz. vol. 213; p. 825.
- Swift Machinery Manufacturing Company. (See Prims, Joseph C., assignor.)
- Swift, Matthew H. (See Swift, Ernest H. and M. H., assignors.)
- Swift & Sons, M. (See Swift, Ernest H. and M. H., assignors.)
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Producing a transparent panel in paper and the like. No. 1,123,422; Jan. 5; Gaz. vol. 210; p. 77.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for attaching flap-securing means to envelopes. No. 1,131,805; Mar. 16; Gaz. vol. 212; p. 753.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Receptacle for collapsible drinking-cups. No. 1,142,284; June 8; Gaz. vol. 215; p. 458.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Forming envelop-blanks. No. 1,144,950; June 29; Gaz. vol. 215; p. 1475.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Merchandise-envelop. No. 1,144,951; June 29; Gaz. vol. 215; p. 1475.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Drinking-cup. No. 1,145,093; July 6; Gaz. vol. 216; p. 44.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Cabinet for paper drinking-cups. No. 1,151,064; Aug. 24; Gaz. vol. 217; p. 1134.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Merchandise-envelop. No. 1,155,016; Sept. 28; Gaz. vol. 218; p. 1026.
- Swift, William L. (See Meier, Swift, and Reller.)
- Swift, William L., St. Louis, Mo., and E. L. Reller, Portland, Oreg., assignors to The Temco Manufacturing Company, St. Louis, Mo. Ticket issuing and registering machine. No. 1,160,669; Nov. 16; Gaz. vol. 220; p. 882.
- Swift, Willis C., Coshocton, Ohio. Constructing plastic walls. No. 1,159,615; Nov. 9; Gaz. vol. 220; p. 454.
- Swikard, Edward L., assignor of one-third to W. R. Durgin and one-third to E. P. Goldsmith, Chicago, Ill. Shirt. No. 1,132,887; Mar. 23; Gaz. vol. 212; p. 1195.
- Swill, Saviour W., T. Hunkers, Pa. Rail-joint. No. 1,131,569; Mar. 9; Gaz. vol. 212; p. 632.
- Swinburne, George W., East Orange, N. J., assignor to Sterilization Company. Apparatus for purifying sewage or the like. No. 1,153,972; Sept. 21; Gaz. vol. 218; p. 640.
- Swinburne, Howard P., and G. S. Crawford, Glasgow, Scotland. Tool-holder. No. 1,148,202; July 27; Gaz. vol. 216; p. 1199.
- Swindell, Edward, Galveston, Tex. Automatic safeguard for vehicles. No. 1,160,341; Nov. 16; Gaz. vol. 220; p. 763.
- Swindell, Fred S., trustee. (See Schofield, Frederick C., assignor.)
- Swindell, John A., Pittsburgh, Pa. Heating-furnace. No. 1,127,315; Feb. 2; Gaz. vol. 211; p. 227.

Alphabetical list of patentees—Continued.

- Swing, Alfred J., Cincinnati, Ohio. Machine for cutting perforated music-sheets. No. 1,146,459; July 13; Gaz. vol. 216; p. 542.
- Swing, Edward M., Washington, D. C. Drip-coffee pot. No. 1,160,011; Nov. 9; Gaz. vol. 220; p. 596.
- Swinglehurst, Harry, assignor to Scott & Williams, Incorporated, Philadelphia, Pa. Yarn-feeding device for knitting-machines. No. 1,124,076; Jan. 5; Gaz. vol. 210; p. 298.
- Swinglehurst, Harry, Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Yarn-changing device for knitting-machines. No. 1,148,262; July 27; Gaz. vol. 216; p. 1219.
- Swinglehurst, Harry, Boston, Mass., assignor to Scott & Williams, Inc., Philadelphia, Pa. Web-holding mechanism for circular-knitting machines. No. 1,147,987; July 27; Gaz. vol. 216; p. 1121.
- Swinglehurst, Harry, Boston, Mass., assignor to Scott & Williams, Incorporated, Philadelphia, Pa. Knitting-machine. No. 1,148,263; July 27; Gaz. vol. 216; p. 1220.
- Swinglehurst, Harry, Boston, Mass., assignor to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine. No. 1,151,418; Aug. 24; Gaz. vol. 217; p. 1252.
- Swint, Louis A., Pickens, W. Va. Wrench. No. 1,153,271; Sept. 14; Gaz. vol. 218; p. 358.
- Swisher, Elisha H. (See Brown, Leonard, assignor.)
- Swisher, Samuel C., assignor to R. W. Markel, San Bernardino, Cal. Rope-clamp. No. 1,159,616; Nov. 9; Gaz. vol. 220; p. 455.
- Swiss Magneto Company, The. (See Baier, Friedrich, assignor.)
- Switzer, Charles A., Pasadena, Cal. Vehicle-signal. No. 1,128,547; Feb. 16; Gaz. vol. 211; p. 749.
- Switzer, Charles A., Pasadena, Cal. Oven for heating asphalt pavement. No. 1,136,294; Apr. 20; Gaz. vol. 213; p. 865.
- Switzer, Charles A., Pasadena, assignor to Safety Auto Signal Company, Los Angeles, Cal. Vehicle-signal. No. 1,137,364; Apr. 27; Gaz. vol. 213; p. 1287.
- Switzer, George S., Grand Rapids, Mich. Air-brake valve. No. 1,127,826; Feb. 9; Gaz. vol. 211; p. 449.
- Switzer, Robert, and C. T. Lamison, Rimersburg, Pa. Chair for railway-joints. No. 1,145,277; July 6; Gaz. vol. 216; p. 105.
- Switzler, Clifford T., Newton, assignor to Reely-Trooly Co., Boston, Mass. Cut-out doll. No. 1,150,792; Aug. 17; Gaz. vol. 217; p. 983.
- Swoboda, Hans O., Edgewood, Pa., assignor to Excess Indicator Company. Excess-indicator. No. 1,144,335; June 22; Gaz. vol. 215; p. 1238.
- Swoboda, Richard, Akron, Ohio. Sausage-linking machine. No. 1,153,584; Sept. 14; Gaz. vol. 218; p. 472.
- Swofford, John H. (See Evans, Thomas C., assignor.)
- Swoleau, Julien, Duson, La. Manure-spreader. No. 1,137,924; May 4; Gaz. vol. 214; p. 70.
- Swoope, Samuel F., Cincinnati, Ohio. Automatic lubricator. No. 1,128,198; Feb. 9; Gaz. vol. 211; p. 578.
- Swyers, Brice P., Pittsburgh, Pa. Polishing device for rolling-mills. No. 1,159,544; Nov. 9; Gaz. vol. 220; p. 427.
- Swyers, Brice P., Pittsburgh, Pa. Throw-out mechanism for polishing devices. No. 1,159,545; Nov. 9; Gaz. vol. 220; p. 428.
- Swyers, Brice P., Pittsburgh, assignor of seven thirty-seconds to G. E. Lorch, two thirty-seconds to M. Maul, seven thirty-seconds to L. Lorch, Jr., Pittsburgh, four thirty-seconds to J. H. Wagner, Mount Olive, and four thirty-seconds to G. M. Davis, Pittsburgh, Pa. Ignition system. No. 1,127,827; Feb. 9; Gaz. vol. 211; p. 450.
- Syfers, Rufus K. (See Hays, Franklin B., assignor.)
- Sykes, Adrian F., New Barnet, England. Electrical relay. No. 1,150,316; Aug. 17; Gaz. vol. 217; p. 819.
- Sykes, James E., assignor of one-third to A. Henning, Snohomish, Wash. Smoke-consumer. No. 1,128,548; Feb. 16; Gaz. vol. 211; p. 749.
- Sykes, John D., Columbus, Ohio. Pipe-coupling. No. 1,129,615; Feb. 23; Gaz. vol. 211; p. 1159.
- Sykes, William, Rockford, Ill. Photographic shutter-tripping mechanism. No. 1,132,229; Mar. 16; Gaz. vol. 212; p. 906.
- Sykes, William C., Greensburg, Pa. Headlight control. No. 1,138,424; May 4; Gaz. vol. 214; p. 248.
- Sykes, William E., Slough, England. Machine for cutting the teeth of straight-spur gear-wheels. No. 1,165,214; Dec. 21; Gaz. vol. 221; p. 954.
- Sykora, Joseph F., Cedar Rapids, Iowa. Pocket refuse-receptacle. No. 1,133,414; Mar. 30; Gaz. vol. 212; p. 1421.
- Sylvester, Daniell W., Clemson College, S. C. Antislipping attachment for horseshoes. No. 1,159,546; Nov. 9; Gaz. vol. 220; p. 428.
- Sylvester, Emory J., Buffalo, N. Y. Scratch-gage. No. 1,144,569; June 29; Gaz. vol. 215; p. 1344.
- Sylvester, Samuel, Lisbon Falls, Me. Mechanical movement. No. 1,149,968; Aug. 10; Gaz. vol. 217; p. 634.
- Sylvester, Samuel, Lisbon Falls, Me. Mechanism for converting reciprocating motion to rotary motion. No. 1,163,485; Dec. 7; Gaz. vol. 221; p. 262.
- Sylvester & Sons, William H. (See Sylvester, William H., assignor.)
- Sylvester, William H., assignor to W. H. Sylvester & Sons, Philadelphia, Pa. Safety device for printing-presses. No. 1,150,332; Nov. 2; Gaz. vol. 220; p. 320.
- Sylvestersen, Jorgen H., Belvidere, Ill. Ditching-plow. No. 1,165,297; Dec. 21; Gaz. vol. 221; p. 981.
- Sylvie, Arthur D., Brooklyn, N. Y. Bib. No. 1,133,194; Mar. 23; Gaz. vol. 212; p. 1307.
- Symington, Thomas H., Rochester, N. Y. End construction. No. 1,125,917; Jan. 19; Gaz. vol. 210; p. 1038.
- Symington, Thomas H., Baltimore, Md. Draft-gear. No. 1,126,663; Jan. 26; Gaz. vol. 210; p. 1341.
- Symington, Thomas H., Rochester, N. Y. Center-sill reinforcement. No. 1,145,944; July 13; Gaz. vol. 216; p. 358.
- Symons, Arthur H., Kansas City, Mo., assignor to Symons Clamp Company, Kansas City, Kans. Clamp for concrete-forms. No. 1,160,212; Nov. 16; Gaz. vol. 220; p. 719.
- Symons Clamp Company. (See Symons, Arthur H., assignor.)
- Symons, Edgar B., Milwaukee, Wis. Pulsating screen. No. 1,141,153; June 1; Gaz. vol. 215; p. 22.
- Symons, Edgar B., Milwaukee, Wis. Stone crusher and pulverizer. No. 1,145,629; July 6; Gaz. vol. 216; p. 228.
- Symons, Edgar B., Chicago, Ill. Pulsating screen. No. 1,151,976; Aug. 31; Gaz. vol. 217; p. 1493.
- Symons, Edgar B., Chicago, Ill. Bearing. No. 1,163,045; Dec. 7; Gaz. vol. 221; p. 108.
- Symons, Wilson E., Chicago, Ill. Steel roof for freight-cars. No. 1,157,339; Oct. 19; Gaz. vol. 219; p. 760.
- Synthetic Corporation. (See Featherstone, Willard B., assignor.)
- Synthetic Patents Co. (See Bauer and Herre, assignors.)
- Synthetic Patents Co. (See Berendes, Rudolph, assignor.)
- Synthetic Patents Co. (See Blank, Heidenrich, and Janssen, assignors.)
- Synthetic Patents Co. (See Coutelle and Moré, assignors.)
- Synthetic Patents Co. (See Desamari, Kurt, assignor.)
- Synthetic Patents Co. (See Engelmann, Max, assignor.)
- Synthetic Patents Co. (See Engelmann and Merkel, assignors.)
- Synthetic Patents Co. (See Flachslaender, Gralert, and Buff, assignors.)
- Synthetic Patents Co. (See Gartner and Köhres, assignors.)
- Synthetic Patents Co. (See Günther, Oskar, assignor.)
- Synthetic Patents Co. (See Hagemann, Karl, assignor.)
- Synthetic Patents Co. (See Hahl, Hans J., assignor.)
- Synthetic Patents Co. (See Hansen and Weindel, assignors.)
- Synthetic Patents Co. (See Herzberg, Martin, assignor.)
- Synthetic Patents Co. (See Hofmann and Gottlob, assignors.)
- Synthetic Patents Co. (See Jaeckel, Bernhard, assignor.)
- Synthetic Patents Co. (See Jordan and Neelmeier, assignors.)
- Synthetic Patents Co. (See Hess, Kurt, assignor.)
- Synthetic Patents Co. (See Hoerlein, Heinrich, assignor.)
- Synthetic Patents Co. Inc. (See Hofmann and Gottlob, assignors.)
- Synthetic Patents Co. (See Huismann, Johann, assignor.)
- Synthetic Patents Co. (See Kahn and Ossenbeck, assignors.)
- Synthetic Patents Co. (See Kéler, Hermann von, assignor.)
- Synthetic Patents Co. (See Kothe and Dressel, assignors.)
- Synthetic Patents Co. (See Kropp, Walter, assignor.)
- Synthetic Patents Co. (See Kuhnke, Emil, assignor.)
- Synthetic Patents Co. (See Maron, David, assignor.)
- Synthetic Patents Co. (See Neelmeier and Sigwart, assignors.)
- Synthetic Patents Co. (See Rietz, Erich, assignor.)
- Synthetic Patents Co. (See Thomaschewski and Tust, assignors.)
- Synthetic Patents Co. (See Tust, Paul, assignor.)
- Sypher, Robert M., Leonia, N. J. Dumb-waiter machine. No. 1,129,434; Feb. 23; Gaz. vol. 211; p. 1094.
- Syracuse Chilled Plow Company. (See Wiard and Spire, assignors.)
- Szabo, John, and A. Judik, Gary, W. Va. Intermittent operating means for churns. No. 1,152,237; Aug. 31; Gaz. vol. 217; p. 1583.
- Szamlar, Vincente, Terryville, Conn. Safety-lamp. No. 1,148,636; Aug. 3; Gaz. vol. 217; p. 55.
- Szarka, Mikhaél, assignor of one-half to M. Dudas, Perth Amboy, N. J. Horseshoe. No. 1,123,953; Jan. 5; Gaz. vol. 210; p. 257.
- Szasz, Alexander, Hinsdale, Ill. Chair-operated churn. No. 1,153,272; Sept. 14; Gaz. vol. 218; p. 358.
- Szczepanski, Antoni F., Detroit, Mich. Bread board or peel. No. 1,135,634; Apr. 13; Gaz. vol. 213; p. 593.
- Szczesny, Stanislaw. (See Jarnuszkiewicz, Chmielowski, Szczesny, and Chybzyński.)
- Szemere, Frederick E., Newburgh, N. Y. Combined shrlt and union suit. No. 1,152,350; Aug. 31; Gaz. vol. 217; p. 1622.
- Szemery, Geza, New York, assignor to O. Gast, Buffalo, N. Y. Rivet heating and holding tool. No. 1,125,411; Jan. 19; Gaz. vol. 210; p. 860.

Alphabetical list of patentees—Continued.

- Szentivanyi, Joseph, assignor of one-third to J. Toth, East Columbus, Ohio. Power mechanism for churns. No. 1,161,547; Nov. 23; Gaz. vol. 220; p. 1239.
- Sziklai, Géza, Budapest, Austria-Hungary. Rowing-craft intended for an amusement device. No. 1,155,381; Oct. 5; Gaz. vol. 219; p. 19.
- Szillard, Bela, Paris, France. Curve-drawing implement. No. 1,136,295; Apr. 20; Gaz. vol. 213; p. 866.
- Szinak, Martin, Cincinnati, Ohio. Folding bed. No. 1,157,453; Oct. 19; Gaz. vol. 219; p. 800.
- Szlányi, William, New York, N. Y., assignor to C. H. Dietze, Newark, N. J. Toy cannon. No. 1,144,739; June 29; Gaz. vol. 215; p. 1404.
- Szlányi, William, New York, N. Y., assignor to C. H. Dietze, Newark, N. J. Game apparatus. No. 1,145,716; July 6; Gaz. vol. 216; p. 260.
- Szűcs, Gergely, and S. Kovach, Lowell, Mass. Non-refillable bottle. No. 1,161,359; Nov. 23; Gaz. vol. 220; p. 1173.
- T. A. Willson & Co. (See Willson and Bourquin, assignors.)
- T. A. Willson & Co. (See Willson and Shindel, assignors.)
- T. B. Wood's Sons Company. (See Wood, Charles O., assignor.)
- T. C. Entwistle Company. (See Slipp, George F., assignor.)
- T. D. Biedel Actiengesellschaft. (See Walther, Reinhold F., assignor.)
- T. D. Palmer Company. (See Palmer, Theodore D., assignor.)
- T. L. Smith Co., The. (See Smith, Thomas L., assignor.)
- T. L. Smith Company, The. (See Smith, Albert E., assignor.)
- T. W. Snow Construction Company. (See Lane, W. Britton, assignor.)
- T. W. & C. B. Sheridan Company *et al.* (See Bredenberg, Alfred, assignor.)
- Taarud, Charles, Minneapolis, Minn. Vulcanizer. No. 1,157,340; Oct. 19; Gaz. vol. 219; p. 760.
- Tabbert, Louis F., Tampa, Fla. Coupling. No. 1,162,527; Nov. 30; Gaz. vol. 220; p. 1624.
- Tabbkins, Bill, Mooringsport, La. Nut-lock. No. 1,146,667; July 13; Gaz. vol. 216; p. 613.
- Tabor, Edward P., Worcester, Mass. Track-sander. No. 1,156,111; Oct. 12; Gaz. vol. 219; p. 300.
- Tabor, Joseph. (See Upton, Jesse H., assignor.)
- Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.)
- Tabor Sash Fixture Co. (See Shirley and Mueller, assignors.)
- Tabor, William B., Staunton, Ill. Means for anchoring stovepipes. No. 1,142,067; June 8; Gaz. vol. 215; p. 381.
- Tabulo, Louis, London, England. Pulley-block and hoisting and lowering gear. No. 1,163,702; Dec. 14; Gaz. vol. 221; p. 384.
- Taby, Joseph C., J. H. Straub, and D. M. Maurer, Shamokin, Pa. Water-agitator for ice-cans. No. 1,137,551; Apr. 27; Gaz. vol. 213; p. 1351.
- Tacit, Virgiliu, and V. Puscariu, Bucharest, Roumania. Well-tube-closing apparatus. No. 1,153,973; Sept. 21; Gaz. vol. 218; p. 641.
- Tacy, Samuel H., Elkins Park, assignor to Pre-Heated Air Company, Philadelphia, Pa. Preheater. No. 1,153,273; Sept. 14; Gaz. vol. 218; p. 358.
- Tadakuma, Seizi, Portland, Oreg. Shoe. No. 1,139,598; May 18; Gaz. vol. 214; p. 733.
- Tadakuma, Seizi, Portland, Oreg. Horseshoe. No. 1,150,554; Aug. 17; Gaz. vol. 217; p. 902.
- Taddeo, Luigi, Cleveland, Ohio. Lock. No. 1,133,677; Mar. 30; Gaz. vol. 212; p. 1516.
- Tadey, Carl, Wetter-Ruhr, assignor to Deutsche Maschinenfabrik Aktiengesellschaft, Duisburg, Germany. Electrically-operated pulley-block. No. 1,165,814; Dec. 28; Gaz. vol. 221; p. 1201.
- Tafel, Richard G., *et al.* (See Beuther, William F., assignor.)
- Taft, Harrison S., Seattle, Wash. Apparatus for constructing concrete columns. No. 1,139,384; May 11; Gaz. vol. 214; p. 622.
- Taft, Harrison S., Seattle, Wash. Reinforced concrete construction. No. 1,150,077; Aug. 17; Gaz. vol. 217; p. 733.
- Taft, Henry D., Rockville Center, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,153,463; Sept. 14; Gaz. vol. 218; p. 428.
- Taft, Hiram E., Northbridge, Mass., assignor of one-half to E. V. Granger, Burrillville, R. I. Lock-nut. (Re-issue.) No. 13,867; Jan. 12; Gaz. vol. 210; p. 690.
- Taft, John A., Columbus, Ohio. Forming cotton and the like into bales. No. 1,145,630; July 6; Gaz. vol. 216; p. 228.
- Taft, Orman L., Worcester, Mass. Doffer-ring. No. 1,137,925; May 4; Gaz. vol. 214; p. 71.
- Taft Peirce Manufacturing Company, The. (See Bryant, Elmer J., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Commons, William C., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Simmons, William L., assignor.)
- Taft, Samuel B., and L. H. Landry, Uxbridge, Mass. Chain-safety. No. 1,148,937; Aug. 3; Gaz. vol. 217; p. 160.
- Taft, Sydney E., Holliston, assignor to Automatic Air Brake Company, Boston, Mass. Brake mechanism. No. 1,149,969; Aug. 10; Gaz. vol. 217; p. 634.
- Taft, Sydney E., Holliston, assignor to Automatic Air Brake Company, Boston, Mass. Brake mechanism. No. 1,149,970; Aug. 10; Gaz. vol. 217; p. 635.
- Taft, Walter E., Providence, R. I. Valve for internal-combustion engines. No. 1,146,460; July 13; Gaz. vol. 216; p. 542.
- Taft, Walter E., Providence, R. I. Faucet or valve. No. 1,160,342; Nov. 16; Gaz. vol. 220; p. 764.
- Tagart, Whitfield M., assignor of one-half to S. R. Sullinberger, Malvern, Ark. Cutter-head. No. 1,149,304; Aug. 10; Gaz. vol. 217; p. 394.
- Taggart, John A., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,154,075; Sept. 21; Gaz. vol. 218; p. 676.
- Taggart, John A., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone trunking system. No. 1,165,728; Dec. 28; Gaz. vol. 221; p. 1172.
- Taggart, John W., Sr. (See Mitchell and Taggart.)
- Tagliabue, Charles J. (See Schneider, Ralph F., assignor.)
- Tagliabue, Charles J., New York, N. Y. Gage. No. 1,130,445; Mar. 2; Gaz. vol. 212; p. 211.
- Tagner, Joseph, New York, and W. Münch, Richmond Hill, N. Y. Scuffle-cover opener. No. 1,130,037; Mar. 2; Gaz. vol. 212; p. 68.
- Taigman, Max, New York, N. Y. Starting-box. No. 1,144,876; June 29; Gaz. vol. 215; p. 1452.
- Taigman, Max, New York, N. Y. Starting-box. No. 1,149,003; Aug. 3; Gaz. vol. 217; p. 183.
- Taigman, Max, New York, N. Y. Starting-box. No. 1,155,290; Sept. 28; Gaz. vol. 218; p. 1117.
- Taigman, Max, New York, N. Y. Starting-box. No. 1,155,291; Sept. 28; Gaz. vol. 218; p. 1117.
- Taisey, Fred R. (See Pearsall and Taisey.)
- Taisey, Fred R., Lowell, assignor to The Lamson Company, Boston, Mass. Cable-carrier system. No. 1,157,190; Oct. 19; Gaz. vol. 219; p. 706.
- Taisey, Fred R., Lowell, assignor to The Lamson Company, Boston, Mass. Cable-carrier system. No. 1,157,191; Oct. 19; Gaz. vol. 219; p. 707.
- Taisey, Fred R., Lowell, assignor to The Lamson Company, Boston, Mass. Cable-carrier system. No. 1,157,192; Oct. 19; Gaz. vol. 219; p. 707.
- Taisey, Fred R., Lowell, assignor to The Lamson Company, Boston, Mass. Cable-carrier apparatus. No. 1,157,193; Oct. 19; Gaz. vol. 219; p. 708.
- Tait, Godfrey M. S., Montclair, N. J., assignor to Hydrocarbon Converter Company, New York, N. Y. Making gas. No. 1,128,549; Feb. 16; Gaz. vol. 211; p. 749.
- Tait, Godfrey M. S., Montclair, N. J., assignor to Tait Producer Company, New York, N. Y. Gas-producer. No. 1,165,347; Dec. 21; Gaz. vol. 221; p. 997.
- Tait, Godfrey M. S., Montclair, N. J., assignor to Tait Producer Company, New York, N. Y. Gas-scrubber. No. 1,165,348; Dec. 21; Gaz. vol. 221; p. 998.
- Tait Producer Company. (See Tait, Godfrey M. S., assignor.)
- Tait, Richard, Jr., assignor to Enterprise Plumbing Supply Co., Chicago, Ill. Refrigerator drain-pan or the like. No. 1,154,141; Sept. 21; Gaz. vol. 218; p. 698.
- Takacs, George, Buffalo, N. Y. Sash-lock. No. 1,141,286; June 1; Gaz. vol. 215; p. 70.
- Takacs, Steve, Newark, Ohio. Screw-driver. No. 1,139,083; May 11; Gaz. vol. 214; p. 518.
- Takamine, Jokichi. (See Sherif, J. Ed, assignor.)
- Takamine, Jokichi, New York, N. Y. Diastatic product and producing the same. No. 1,148,938; Aug. 3; Gaz. vol. 217; p. 160.
- Takesuye, Wasaburo, Ogden, Utah. Rotary fan. No. 1,128,633; Feb. 16; Gaz. vol. 211; p. 778.
- Takken, Evert, Boone, Iowa. Gripping device. No. 1,151,836; Aug. 31; Gaz. vol. 217; p. 1445.
- Talbert, Daniel H., Indianapolis, Ind. Corn-popping machine. No. 1,165,556; Dec. 28; Gaz. vol. 221; p. 1109.
- Talbot, Benjamin, Middlesbrough, England. Treating iron and steel ingots. No. 1,150,401; Aug. 17; Gaz. vol. 217; p. 848.
- Talbot, Frank H., Cincinnati, Ohio. Rubber-tire armor. No. 1,138,999; May 11; Gaz. vol. 214; p. 488.
- Talbot, Frank M. (See Dahl, Alvin, assignor.)
- Talbot, Henry H., St. Joseph, Mo. Automatic self-loading pistol. No. 1,137,173; Apr. 27; Gaz. vol. 213; p. 1216.
- Talbot, James A., San Francisco, Cal. Casing-coupling. No. 1,128,634; Feb. 16; Gaz. vol. 211; p. 778.
- Talbot, Walter, *et al.* (See Keltner, George R., assignor.)
- Talbot, William W., New York, N. Y. Safety guard attachment for vehicles. No. 1,148,553; Aug. 3; Gaz. vol. 217; p. 24.
- Talbutt, Robert H., Baltimore, Md., and B. O. Hutchison, Spartanburg, S. C. Coffee-pot. No. 1,143,239; June 15; Gaz. vol. 215; p. 833.
- Taliaferro, John C., Baltimore, Md., assignor, by mesne assignments, to Continental Can Company, Inc. Friction-top can. No. 1,128,076; Feb. 9; Gaz. vol. 211; p. 536.
- Talke, Artur, Nieder-Goellschau, Kreis Goldberg-Haynau, Silesia, Germany. Toy or joke article. No. 1,140,418; May 25; Gaz. vol. 214; p. 1057.

Alphabetical list of patentees—Continued.

- Talkin, Hyman N. (See Fisher, George W., assignor.)
 Taliant, Frank J., Leavenworth, Kans. Agitator for washing-machines. No. 1,138,157; May 4; Gaz. vol. 214; p. 153.
 Tallarday, George S., assignor to Queen City Knitting Mills, Inc., Poughkeepsie, N. Y. Shawl. No. 1,157,341; Oct. 19; Gaz. vol. 219; p. 760.
 Talley, Edward F., assignor of one-half to R. S. Kelley, Webb City, Mo. Check and check-book protector. No. 1,159,617; Nov. 9; Gaz. vol. 220; p. 455.
 Talley, Edwin R., Algona, Iowa. Beet-topper. No. 1,124,972; Jan. 12; Gaz. vol. 210; p. 666.
 Talley, Edwin R., Algona, Iowa. Bifocal lens. No. 1,136,060; Apr. 20; Gaz. vol. 213; p. 782.
 Talley, Edwin R., Algona, Iowa. Nut-lock. No. 1,159,618; Nov. 9; Gaz. vol. 220; p. 455.
 Talley, Edwin R., and R. P. Norton, Algona, Iowa. Telephone-recorder. No. 1,131,439; Mar. 9; Gaz. vol. 212; p. 588.
 Tallie, A. D., et al. (See Cook, Jim, assignor.)
 Tallie, A. D., and A., et al. (See Cook, Jim, assignor.)
 Tallmadge, Charles H., Chicago, Ill., assignor, by mesne assignments, to W. R. Heath, Buffalo, N. Y. Accounting system. No. 1,146,113; July 13; Gaz. vol. 216; p. 418.
 Tallmadge, Charles H., Chicago, Ill., assignor, by mesne assignments, to W. R. Heath, Buffalo, N. Y. Indexing and assorting means. No. 1,150,793; Aug. 17; Gaz. vol. 217; p. 983.
 Talmage, John G. (See Lickley, Ralph M., assignor.)
 Talmage, John G., Cleveland, Ohio. Gage-glass. No. 1,142,540; June 8; Gaz. vol. 215; p. 548.
 Tamagno, Daniel B., assignor to L. Tamagno, New York, N. Y. Can-closure. No. 1,140,295; May 18; Gaz. vol. 214; p. 977.
 Tamagno, Daniel B., assignor to L. Tamagno, New York, N. Y. Can-closure. No. 1,164,144; Dec. 14; Gaz. vol. 221; p. 539.
 Tamagno, Lydie. (See Tamagno, Daniel B., assignor.)
 Tallman, James H., Hamilton, Ontario, Canada. Apparatus for shocking grain. No. 1,131,171; Mar. 9; Gaz. vol. 212; p. 495.
 Tammen, Fred J. M., Albert, Kans. Sawing-machine. No. 1,127,108; Feb. 2; Gaz. vol. 211; p. 157.
 Tams, Frederick A. (See Tams, Gladwin and F. A.)
 Tams, Gladwin and F. A., St. Lawrence, S. D. Husking device. No. 1,146,038; July 13; Gaz. vol. 216; p. 392.
 Tamsitt, George W. (See Wright and Tamsitt.)
 Tanaka, Atarashi, Los Angeles, Cal. Dish-washer. No. 1,154,349; Sept. 21; Gaz. vol. 218; p. 771.
 Tanaka, Kay T., Salt Lake City, Utah. Hardwood-floor mop. No. 1,146,668; July 13; Gaz. vol. 216; p. 613.
 Tanaka, Kay T., Salt Lake City, Utah. Rake. No. 1,149,098; Aug. 3; Gaz. vol. 217; p. 215.
 Tanaka, Masao, New York, N. Y. Hair-clipper. No. 1,166,094; Dec. 28; Gaz. vol. 221; p. 1298.
 Tanaka, Tomo, New York, N. Y. Bath-tub seat. No. 1,144,261; June 22; Gaz. vol. 215; p. 1212.
 Tange, Ernest, Edinburg, N. Y. Motor-sled. No. 1,151,306; Aug. 24; Gaz. vol. 217; p. 1217.
 Tangeman, Eldo J., Keystone, Iowa. Carpet-cleaner. No. 1,129,817; Feb. 23; Gaz. vol. 211; p. 1224.
 Tanikawa, Masashi, New York, N. Y. Moving-picture toy. No. 1,151,977; Aug. 31; Gaz. vol. 217; p. 1494.
 Tannar, Earle E., Akron, Ohio. Tire-core. No. 1,157,263; Oct. 19; Gaz. vol. 219; p. 734.
 Tanner, Arnold J. (See Paul and Tanner.)
 Tanner, Arnold J., London, England. Machine for stamping and issuing tickets. No. 1,130,120; Mar. 2; Gaz. vol. 212; p. 97.
 Tanner, Arnold J., London, England, assignor to Prepayment Car Sales Company, New York, N. Y. Passenger-vehicle. No. 1,133,678; Mar. 30; Gaz. vol. 212; p. 1517.
 Tanner, Charles A., assignor to N. I. Laukhuf, Peoria, Ill. Spring-hinge. No. 1,147,827; July 27; Gaz. vol. 216; p. 1064.
 Tanner, Daniel R. (See Irving and Tanner.)
 Tanner, Daniel R., La Grande, Oreg. Truck-transferring mechanism. No. 1,153,274; Sept. 14; Gaz. vol. 218; p. 359.
 Tanner, Guy. (See Pauly and Tanner.)
 Tanner, Henry, Chicago, Ill. Fire-brick. No. 1,164,680; Dec. 21; Gaz. vol. 221; p. 767.
 Tanner, John M., Kingsville, Mo. Nut-lock. No. 1,153,649; Sept. 14; Gaz. vol. 218; p. 493.
 Tanner, Perry E., Akron, Ohio. Gage for liquid-containing tanks. No. 1,129,837; Feb. 23; Gaz. vol. 211; p. 1231.
 Tannevitz, Carl E., Grand Rapids, Mich. Variable-speed belt-gearing. No. 1,151,837; Aug. 31; Gaz. vol. 217; p. 1445.
 Tantonaco, Libro, et al. (See Tegoli, August, assignor.)
 Tapani, John, Diorite, Mich. Hose-coupling. No. 1,146,822; July 20; Gaz. vol. 216; p. 686.
 Tapley, Thomas H. (See Furthmann, William N., assignor.)
 Taplitsky, Morris, Boston, Mass. Guard and thread-container for sewing-machines. No. 1,130,347; Mar. 2; Gaz. vol. 212; p. 175.
 Tapp, Lacy L., Elkton, Ky. Cattle-guard. No. 1,155,968; Oct. 5; Gaz. vol. 219; p. 223.
 Tappan, Dewitt, Watervliet, N. Y. Flexible coupling. No. 1,160,213; Nov. 16; Gaz. vol. 220; p. 719.
 Tappan, George J., Tulalip, Wash. Sawing-machine. No. 1,156,722; Oct. 12; Gaz. vol. 219; p. 512.
 Tappan, George S., Diamond Spring, Cal. Wrench. No. 1,135,334; Apr. 13; Gaz. vol. 213; p. 487.
 Tappan, William H., assignor to Eclipse Stove Company, Mansfield, Ohio. Stove. No. 1,150,904; Aug. 24; Gaz. vol. 217; p. 1079.
 Taras, Johan, Bentleyville, Pa. Horseshoe. No. 1,138,259; May 4; Gaz. vol. 214; p. 187.
 Tarbox, John P., Washington, D. C. Making razor-blades. No. 1,165,037; Dec. 21; Gaz. vol. 221; p. 890.
 Tarentum Bottle Machine Company. (See Kendig, Julian H., assignor.)
 Tarpenning, Charles T., Indianapolis, assignor of one-half to Bertsch & Company, Cambridge City, Ind. Sheet-metal-bending machine. No. 1,127,109; Feb. 2; Gaz. vol. 211; p. 157.
 Tardy, Walter B. (See Peabody and Tardy.)
 Tarleton, Thomas, Wembley Park, England. Pencil-lead sharpener. No. 1,158,582; Nov. 2; Gaz. vol. 220; p. 61.
 Tarrant, William P., Saratoga Springs, N. Y. Valve for molten solids. No. 1,123,817; Jan. 5; Gaz. vol. 210; p. 211.
 Tashjian, Ohanes, Fresno, Cal. Method of and apparatus for curing raisins and other fruit. No. 1,140,009; May 18; Gaz. vol. 214; p. 879.
 Task, Henry, assignor of one-half to W. J. Alden, Milwaukee, Wis. Cuspidor. No. 1,123,954; Jan. 5; Gaz. vol. 210; p. 257.
 Tasker, Thomas H., Holland, Mich. Ladder-support. No. 1,138,583; May 4; Gaz. vol. 214; p. 300.
 Tassin, Wirt. (See Page and Tassin.)
 Tassin, Wirt, Washington, D. C. Negative electrode and making the same. No. 1,129,818; Feb. 23; Gaz. vol. 211; p. 1224.
 Tate, Charles G., assignor to United Motor Equipment Co., Chicago, Ill. Electric vaporizer. No. 1,136,845; Apr. 20; Gaz. vol. 213; p. 1061.
 Tate, Charles G., assignor, by mesne assignments, to E. A. Benson, Chicago, Ill. Wheel. No. 1,159,289; Nov. 2; Gaz. vol. 220; p. 306.
 Tate, George. (See Hamlen, Roy, assignor.)
 Tate, George A., Chicago, Ill. Electric switch. No. 1,159,547; Nov. 9; Gaz. vol. 220; p. 428.
 Tate, Jasper, Grape Creek, Ill. Car-coupling. No. 1,128,386; Feb. 16; Gaz. vol. 211; p. 691.
 Tate, Louis F., Newton, Ala. Lens-mounting for eyeglasses. No. 1,164,145; Dec. 14; Gaz. vol. 221; p. 539.
 Tate, Robert L., assignor of one-half to J. M. Hackney, Atlanta, Ga. Locomotive-eccentric-lubricating device. No. 1,165,215; Dec. 21; Gaz. vol. 221; p. 955.
 Tate, Samuel W., Parma, Idaho. Clamp. No. 1,130,772; Mar. 9; Gaz. vol. 212; p. 359.
 Tate, Samuel W., Parma, Idaho. Woven-wire-fence-fabric stretcher. No. 1,139,238; May 11; Gaz. vol. 214; p. 571.
 Tate, Wesley W., Spring township, Center county, Pa. Stacking apparatus. No. 1,149,796; Aug. 10; Gaz. vol. 217; p. 571.
 Taten, Jacob F., Findlay, Ohio. Engine-starting means. No. 1,146,906; July 20; Gaz. vol. 216; p. 715.
 Tatlow, Richard H., Jr., Denver, Colo. Match-safe. No. 1,139,919; May 18; Gaz. vol. 214; p. 847.
 Tatlow, Samuel, St. Cloud, Fla. Vehicle-axle and wheel-mounting. No. 1,157,061; Oct. 19; Gaz. vol. 219; p. 662.
 Tatum, Hamling, Elba, Ala. Plow-sweep holder. No. 1,147,565; July 20; Gaz. vol. 216; p. 946.
 Tatum, James W., Coats, N. C. Window-shade fixture. No. 1,142,993; June 15; Gaz. vol. 215; p. 745.
 Tatum, James W., Coats, N. C. Blind-hinge. No. 1,144,262; June 22; Gaz. vol. 215; p. 1212.
 Tatum, John J. (See Sage and Tatum.)
 Tatum, John J., Baltimore, Md. Friction draft-gear. No. 1,146,772; July 13; Gaz. vol. 216; p. 648.
 Tatum, Lewis L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulation of dynamo-electric machines. No. 1,134,244; Apr. 6; Gaz. vol. 213; p. 59.
 Tatum, Lewis L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,138,808; May 11; Gaz. vol. 214; p. 420.
 Tatum, Lewis L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,141,154; June 1; Gaz. vol. 215; p. 22.
 Tatum, Lewis L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electroresponsive regulator. No. 1,142,858; June 15; Gaz. vol. 215; p. 696.
 Taubel & Son, Henry. (See Phillips, Robert S. and B. II., assignors.)
 Tauber, Bernard, assignor to Interstate Electric Novelty Company, New York, N. Y. Electric switch for portable electric lights. No. 1,132,750; Mar. 23; Gaz. vol. 212; p. 1144.
 Tauber, Bernard, assignor to Interstate Electric Novelty Company, New York, N. Y. Portable electric light. No. 1,132,751; Mar. 23; Gaz. vol. 212; p. 1145.
 Taurman, Alphonso, Richmond, Va. Railway band-brake. No. 1,144,922; June 29; Gaz. vol. 215; p. 1465.
 Taurman, Alphonso, Richmond, Va. Car-door-operating mechanism. No. 1,144,923; June 29; Gaz. vol. 215; p. 1466.

Alphabetical list of patentees—Continued.

- Tausan, Martin, Gordon, Nebr. Sickle-bar-holding device. No. 1,133,589; Mar. 30; Gaz. vol. 212; p. 1483.
- Tausch, William F., *et al.* (See Gaeth, Paul, assignor.)
- Taussig, John H., assignor to The United Gas Improvement Company, Philadelphia, Pa. Door mechanism for vertical retorts. No. 1,140,339; May 18; Gaz. vol. 214; p. 994.
- Taussig, John H., assignor to The United Gas Improvement Company, Philadelphia, Pa. Means for charging vertical retorts. No. 1,140,340; May 18; Gaz. vol. 214; p. 994.
- Tautphaeus, Jonas A., Sappington, Mo. Antislipping device for power-driven-vehicle wheels. No. 1,149,305; Aug. 10; Gaz. vol. 217; p. 395.
- Taximeter Register Company, The. (See Maxwell, George S., assignor.)
- Taylor, Adelaide, Stevens Point, Wis. Hat-box. No. 1,151,457; Sept. 21; Gaz. vol. 218; p. 807.
- Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve mechanism for automatic-rotation hammer-drills. No. 1,127,110; Feb. 2; Gaz. vol. 211; p. 158.
- Taylor, Albert H., Liverpool, assignor to Western Dental Manufacturing Company (1914) Limited, Bristol, England. Artificial tooth. No. 1,134,965; Apr. 6; Gaz. vol. 213; p. 314.
- Taylor, Albertis C. (See Winfield and Taylor.)
- Taylor, Albertis C., assignor to The Winfield Manufacturing Company, Warren, Ohio. Connection for electrical terminals. No. 1,163,703; Dec. 14; Gaz. vol. 221; p. 384.
- Taylor, Albion S. (See Lamb and Taylor.)
- Taylor, Alfred M., Birmingham, England. Circuit-breaker. No. 1,164,320; Dec. 14; Gaz. vol. 221; p. 599.
- Taylor, Alpha O., Blue Creek, W. Va. Cable-cutting tool. No. 1,125,209; Jan. 19; Gaz. vol. 210; p. 786.
- Taylor, Anna S., New York, N. Y. Clothes-stick. No. 1,156,112; Oct. 12; Gaz. vol. 219; p. 300.
- Taylor, Arthur, Centralia, Ill. Railway-skate. No. 1,157,264; Oct. 19; Gaz. vol. 219; p. 735.
- Taylor, Arthur M., Keuka Park, N. Y. Basket-handle-nailing machine. No. 1,151,307; Aug. 24; Gaz. vol. 217; p. 1217.
- Taylor Automatic Air Control Company *et al.* (See Taylor, Nicholas, assignor.)
- Taylor, Bayard E., Oak Park, Ill. Valve for pneumatic tires. No. 1,157,822; Oct. 26; Gaz. vol. 219; p. 990.
- Taylor, Burch A., Springville, Ala. Stool. No. 1,132,407; Mar. 16; Gaz. vol. 212; p. 971.
- Taylor, C. E., *et al.* (See Simon, Carl G., assignor.)
- Taylor, Cecil H. (See Neuteboom and Taylor.)
- Taylor, Cecil H., Detroit, Mich. Shaft connection. No. 1,160,462; Nov. 16; Gaz. vol. 220; p. 805.
- Taylor, Cecil H., and B. B. Neuteboom, Detroit, Mich. Explosion-engine. No. 1,135,074; Apr. 13; Gaz. vol. 213; p. 398.
- Taylor, Cecil H., and B. B. Neuteboom, Detroit, Mich. Automobile. No. 1,138,904; May 11; Gaz. vol. 214; p. 454.
- Taylor, Cecil H., and B. B. Neuteboom, Detroit, Mich. Internal-combustion engine. No. 1,151,736; Aug. 31; Gaz. vol. 217; p. 1409.
- Taylor, Charles, Boston, Mass. Bleaching fabrics in open form. No. 1,146,461; July 13; Gaz. vol. 216; p. 542.
- Taylor, Charles A., Winchester, assignor of one-half to N. Black, Farmer City, Ill. Clamp. No. 1,138,905; May 11; Gaz. vol. 214; p. 454.
- Taylor, Charles E., Seattle, assignor of one-half to J. E. Rimbold, King county, Wash. Washing-machine. No. 1,129,248; Feb. 23; Gaz. vol. 211; p. 1029.
- Taylor, Charles G., Los Angeles, Cal. Lock. No. 1,136,735; Apr. 20; Gaz. vol. 213; p. 1023.
- Taylor, Charles H., Newburgh, N. Y. Bottle-drainer. No. 1,157,454; Oct. 19; Gaz. vol. 219; p. 801.
- Taylor, Charles H., Joliet, Ill. Corn-harvesting machine. No. 1,159,548; Nov. 9; Gaz. vol. 220; p. 429.
- Taylor, Charles H., Mere, England, assignor of one-half to R. W. Courtice, Bloemfontein, Orange Free State, South Africa. Governor for internal-combustion engines. No. 1,133,679; Mar. 30; Gaz. vol. 212; p. 1517.
- Taylor, Charles L., and G. A. Daidy, Washington, D. C. Supporting and fastening device for collars. No. 1,128,635; Feb. 16; Gaz. vol. 211; p. 778.
- Taylor, Charles M., Paris, Ky. Pruning implement. No. 1,150,718; Aug. 17; Gaz. vol. 217; p. 958.
- Taylor, Charles R. (See Von Hacht, Taylor, and Clewe.)
- Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Shaft-coupling. No. 1,149,306; Aug. 10; Gaz. vol. 217; p. 395.
- Taylor, Denn L., Santa Maria, Cal. Gas-turbine. No. 1,152,862; Sept. 7; Gaz. vol. 218; p. 178.
- Taylor, Edgar, Yonkers, N. Y. Brooder. No. 1,141,853; June 1; Gaz. vol. 215; p. 266.
- Taylor, Edison S., Coldwater, Mich. Coaster. No. 1,147,566; July 20; Gaz. vol. 216; p. 946.
- Taylor, Edward, Chicago, Ill. Pump-unloading valve. No. 1,128,077; Feb. 9; Gaz. vol. 211; p. 537.
- Taylor, Edward W., Salt Lake City, Utah. Nut-lock. (Re-issue.) No. 13,986; Sept. 21; Gaz. vol. 218; p. 857.
- Taylor, Edwin, New York, and F. P. Bergh, Yonkers, N. Y. Making sulfuric acid. No. 1,157,455; Oct. 19; Gaz. vol. 219; p. 801.
- Taylor, Emmet J., Guernsey, Iowa. Gate-latch. No. 1,138,026; May 4; Gaz. vol. 214; p. 105.
- Taylor, Emmett L. (See Mice and Taylor.)
- Taylor, Ernest W. (See Colby and Taylor.)
- Taylor, Eugene H., Boston, Mass. Making insoles. No. 1,145,094; July 6; Gaz. vol. 216; p. 44.
- Taylor, Eugene H., Boston, Mass. Paper-box machine. No. 1,161,996; Nov. 30; Gaz. vol. 220; p. 1440.
- Taylor, Eugene H., Hyde Park, Mass. Insole-forming machine. No. 1,152,131; Aug. 31; Gaz. vol. 217; p. 1546.
- Taylor, Eugene H., Hyde Park, Mass., assignor to L. W. Luellen, New York, N. Y. Cup-making machine. No. 1,163,572; Dec. 7; Gaz. vol. 221; p. 292.
- Taylor, F. E., *et al.* (See Taylor, John E., assignor.)
- Taylor, Frank J., Houston, Tex. Torch. No. 1,156,256; Oct. 12; Gaz. vol. 219; p. 347.
- Taylor, Garfield, Lyman, Wash. Power-transmission device. No. 1,165,557; Dec. 28; Gaz. vol. 221; p. 1110.
- Taylor, Garnett, Evans & Company Limited. (See Smith, Mark, assignor.)
- Taylor, George A., Newark, Cal. Clothes-line prop. No. 1,166,276; Dec. 28; Gaz. vol. 221; p. 1367.
- Taylor, George B., Birmingham, England. Machine for turning and cutting off pieces from a bar or tube. No. 1,140,208; May 18; Gaz. vol. 214; p. 948.
- Taylor, George L. (See Moorefield and Brady, assignors.)
- Taylor, George N. (See Rand and Taylor.)
- Taylor, George W., Fayette, Mo. Wheel-scraper. No. 1,139,599; May 18; Gaz. vol. 214; p. 733.
- Taylor, Gladwin R., North Baltimore, Ohio. Window-screen guide. No. 1,127,316; Feb. 2; Gaz. vol. 211; p. 227.
- Taylor, Harold D., Bishophill, assignor of one-half to A. Hungerford, Pollen, London, England. Optical instrument especially applicable to range-finders. No. 1,140,010; May 18; Gaz. vol. 214; p. 880.
- Taylor, Harry A., New York, N. Y. Glove. No. 1,153,728; Sept. 14; Gaz. vol. 218; p. 522.
- Taylor, Harry A., New York, N. Y. Stocking. No. 1,162,820; Dec. 7; Gaz. vol. 221; p. 32.
- Taylor, Harry A., New York, N. Y. Glove. No. 1,162,821; Dec. 7; Gaz. vol. 221; p. 32.
- Taylor, Harvey T., Pueblo, Colo. Lock for valves. No. 1,145,278; July 6; Gaz. vol. 216; p. 105.
- Taylor, Henry B. (See Dunn and Taylor.)
- Taylor, Henry D., assignor to Lightning Letter Opener Company, Rochester, N. Y. Machine for opening envelopes. No. 1,137,552; Apr. 27; Gaz. vol. 213; p. 1351.
- Taylor, Henry D., assignor to Lightning Letter Opener Company, Rochester, N. Y. Envelope-opening machine. No. 1,137,678; Apr. 27; Gaz. vol. 213; p. 1392.
- Taylor, Henry D., assignor to Lightning Letter Opener Company, Rochester, N. Y. Envelope-opener. No. 1,137,726; Apr. 27; Gaz. vol. 213; p. 1408.
- Taylor, Henry D., assignor to Lightning Letter Opener Company, Rochester, N. Y. Envelope-opening machine. No. 1,150,905; Aug. 24; Gaz. vol. 217; p. 1079.
- Taylor, Henry D., assignor to Lightning Letter Opener Company, Rochester, N. Y. Machine for opening envelopes. No. 1,158,583; Nov. 2; Gaz. vol. 220; p. 61.
- Taylor, Henry M., Tallahassee, Ala. Wheel-spoke. No. 1,164,237; Dec. 14; Gaz. vol. 221; p. 569.
- Taylor, Horace, Brookline, Mass. Selective device. No. 1,165,465; Dec. 28; Gaz. vol. 221; p. 1078.
- Taylor, Horace H., Oakland, Cal. Rotary engine. No. 1,127,111; Feb. 2; Gaz. vol. 211; p. 158.
- Taylor, Hugh G., Buhl, Idaho. Road-grader. No. 1,142,381; June 8; Gaz. vol. 215; p. 492.
- Taylor Instrument Companies. (See Howe, James A., assignor.)
- Taylor Instrument Companies. (See Norwood and Stalker, assignors.)
- Taylor Instrument Companies. (See Norwood and Stuart, assignors.)
- Taylor Instrument Companies, The. (See Whipple, Robert S., assignor.)
- Taylor, Isaac F., assignor of one-half to S. Pick, London, England. Winch. No. 1,159,290; Nov. 2; Gaz. vol. 220; p. 306.
- Taylor, Isaac F., East Dulwich, and S. Pick, London, England. Ship's boat storing, lowering, and raising apparatus. No. 1,133,826; Mar. 30; Gaz. vol. 212; p. 1569.
- Taylor, Izora. (See Taylor, James H. and I.)
- Taylor, J. Clifford, *et al.* (See Clark, Arthur I., assignor.)
- Taylor, J. Leslie. (See Jones, Edward S., assignor.)
- Taylor, James F., Washington, D. C. Automobile dirigible-headlight mounting. No. 1,150,234; Aug. 17; Gaz. vol. 217; p. 790.
- Taylor, James H. (See Doernbach and Taylor.)
- Taylor, James H., Oak Park, Ill. Making forged-steel pipe-necks. No. 1,124,359; Jan. 12; Gaz. vol. 210; p. 447.
- Taylor, James H., Toledo, Ohio. Vacuum-cleaner. No. 1,157,456; Oct. 19; Gaz. vol. 219; p. 801.
- Taylor, James H., and A. H. Mausell, Detroit, Mich. Railway-gate. No. 1,140,084; May 18; Gaz. vol. 214; p. 906.
- Taylor, James H. and I., Philadelphia, Pa. Baby-pants. No. 1,163,793; Dec. 14; Gaz. vol. 221; p. 417.

- Taylor, John, and L. W. Weil, Manchester, England. Centrifugal pump. No. 1,125,763; Jan. 19; Gaz. vol. 210; p. 984.
- Taylor, John, Jr., Kansas City, Mo. Humidor. No. 1,144,508; June 29; Gaz. vol. 215; p. 1324.
- Taylor, John D., deceased, Wilkensburg, Pa.; M. E. Taylor, executrix. Combined gas-engine starter and electric generator. No. 1,140,011; May 18; Gaz. vol. 214; p. 880.
- Taylor, John D., deceased, Wilkensburg; M. E. Taylor, executrix, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,144,509; June 29; Gaz. vol. 215; p. 1325.
- Taylor, John E., Camden, Ohio, assignor of one-third to J. F. Knepper, White Water, Ind., and one-third to F. E. Taylor, Camden, Ohio. Window-screen. No. 1,161,084; Taylor, John H., Battle Creek, Mich. Water-circulator. No. 1,163,704; Dec. 14; Gaz. vol. 221; p. 384.
- Taylor, John N., Durand, Ill. Draft-equalizer. No. 1,146,823; July 20; Gaz. vol. 216; p. 686.
- Nov. 23; Gaz. vol. 220; p. 1072.
- Taylor, John S., Waipahu, Hawaii. Flushing apparatus. No. 1,131,570; Mar. 9; Gaz. vol. 212; p. 632.
- Taylor, John W., and O. Beecham, Chicago, Ill. Manifold-recorder for car-record apparatus. No. 1,164,030; Dec. 14; Gaz. vol. 221; p. 499.
- Taylor, Joseph, Jr., Saco, Me. Tent-rack. No. 1,134,295; Apr. 6; Gaz. vol. 213; p. 77.
- Taylor, Joseph J. (See Neff and Taylor.)
- Taylor, Joseph P., Philadelphia, Pa. Means for securing wind-shields to caps of armor-piercing projectiles. No. 1,130,446; Mar. 2; Gaz. vol. 212; p. 211.
- Taylor, Lena H., Longmeadow, Mass. Infant's hose. No. 1,161,548; Nov. 23; Gaz. vol. 220; p. 1239.
- Taylor, Leonard, Slattocks, Castleton, England. Friction clutch and coupling. No. 1,142,541; June 8; Gaz. vol. 215; p. 549.
- Taylor, Leslie B., and F. Hughes, Birmingham, England; said Hughes assignor to said Taylor. Breech-loading small-arm. No. 1,154,458; Sept. 21; Gaz. vol. 218; p. 808.
- Taylor, Lloyd B., Chicago, Ill. Automobile-trunk. No. 1,135,861; Apr. 13; Gaz. vol. 213; p. 673.
- Taylor, Mamie A., Chicago, Ill. Culinary utensil. No. 1,148,129; July 27; Gaz. vol. 216; p. 1174.
- Taylor Manufacturing Company. (See Desmond, John, assignor.)
- Taylor, Martin T., Phoenix Mines, near Liskeard, Cornwall, England, and J. F. Gardiner, Mount Chalmers, Queensland, Australia. Rock-drill chuck. No. 1,132,636; Mar. 23; Gaz. vol. 212; p. 1103.
- Taylor, Mary C., Perth Amboy, assignor of one-half to S. Taylor, Jersey City, N. J. Skirt-measuring device. No. 1,155,690; Oct. 5; Gaz. vol. 219; p. 127.
- Taylor, Mary E., executrix. (See Taylor, John D.)
- Taylor, Neil, Leeds, England. Plant for making tar macadam. No. 1,138,906; May 11; Gaz. vol. 214; p. 454.
- Taylor, Nicholas, assignor of three-fourths to Taylor Automatic Air Control Company, one-eighth to E. A. Edmondson, and one-eighth to F. Stroupe, Muskogee, Okla. Fluid-pressure automobile control mechanism. No. 1,141,589; June 1; Gaz. vol. 215; p. 179.
- Taylor, Percy B. (See Simpson and Taylor.)
- Taylor, Philip J., Cairo, Ill. Motion-picture device. No. 1,152,989; Sept. 7; Gaz. vol. 218; p. 224.
- Taylor, Ralph G., Davenport, assignor, by mesne assignments, to The Bettendorf Company, Bettendorf, Iowa. Door-operating mechanism for dump-cars. No. 1,133,336; Taylor, Richard. (See Clayton and Taylor.)
- Taylor, Robert A., Greenville, S. C. Loom-shuttle. No. 1,150,402; Aug. 17; Gaz. vol. 217; p. 849.
- Taylor, Robert E., Lebanon, Ind. Wrapping-paper-dispensing rack. No. 1,159,619; Nov. 9; Gaz. vol. 220; p. 456.
- Taylor, Roger, and L. A. Miley, Selby, Cal. Casting-machine. No. 1,156,446; Oct. 12; Gaz. vol. 219; p. 415.
- Taylor, Roy M., and A. G. Broe, Vancouver, British Columbia, Canada. Valve-plug for volatile-containers. No. 1,139,463; May 11; Gaz. vol. 214; p. 650.
- Taylor, Samuel. (See Taylor, Mary C., assignor.)
- Taylor, Samuel W., South Richmond, Va. Water-gage glass. No. 1,130,857; Mar. 9; Gaz. vol. 212; p. 388.
- Taylor, Thomas, et al. (See Killman, Thomas A., assignor.)
- Taylor, Thomas J., Homer, La. Light-support. No. 1,130,773; Mar. 9; Gaz. vol. 212; p. 359.
- Taylor, Virgil T., Harrods Creek, Ky. Cooking-receptacle. No. 1,141,020; May 25; Gaz. vol. 214; p. 1267.
- Taylor, Virginia B., executrix. (See Taylor, Warren H.)
- Taylor, Wade A. (See Pritchard and Taylor.)
- Taylor, Walter, Nashville, Tenn. Automatic trip mechanism for end-matching machines. No. 1,152,990; Sept. 7; Gaz. vol. 218; p. 224.
- Taylor, Walter J., Saco, Mont. Caliper-register. No. 1,163,794; Dec. 14; Gaz. vol. 221; p. 417.
- Taylor, Walter L., Boyd, Okla., and R. G. Newton, Burlingame, Kans. Knife-sharpener. No. 1,151,627; Aug. 31; Gaz. vol. 217; p. 1373.
- Taylor, Walter L., Boyd, Okla., and R. G. Newton, Burlingame, Kans. Grade-indicator. No. 1,166,019; Dec. 28; Gaz. vol. 221; p. 1272.
- Taylor, Walter S., and F. G. Liady, Brea, Cal. Packing-spider. No. 1,151,136; Aug. 24; Gaz. vol. 217; p. 1158.
- Taylor, Walton E., St. Joseph, Mo. Wire-placer. No. 1,136,183; Apr. 20; Gaz. vol. 213; p. 825.
- Taylor, Warden B., Laurel, Blooming, Tenn. Harrow. No. 1,147,907; July 27; Gaz. vol. 216; p. 1093.
- Taylor, Warren H., deceased; V. B. Taylor, executrix, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Armor for pin-tumbler locks. No. 1,140,209; May 18; Gaz. vol. 214; p. 949.
- Taylor, William C. (See Sullivan and Taylor.)
- Taylor, William E., Eastport, Me., assignor to American Can Company, New York, N. Y. Solder-fusing machine. No. 1,144,510; June 29; Gaz. vol. 215; p. 1325.
- Taylor, William E., Eastport, Me., assignor to American Can Company, New York, N. Y. Can-cover tucking and fusing machine. No. 1,152,450; Sept. 7; Gaz. vol. 218; p. 24.
- Taylor, William J. G., Clarksburg, W. Va. Holder for bits and similar tools. No. 1,152,669; Sept. 7; Gaz. vol. 218; p. 107.
- Taylor, William M. P. (See Adams and Taylor.)
- Taylor, William P., Buffalo, N. Y. Cover-fastening for stop-cock boxes. No. 1,157,062; Oct. 19; Gaz. vol. 219; p. 662.
- Taylor, William T., Portland, Oreg. Amphibious vessel. No. 1,161,267; Nov. 23; Gaz. vol. 220; p. 1140.
- Taylor, William W., Montclair, N. J. Metallic building. No. 1,141,021; May 25; Gaz. vol. 214; p. 1267.
- Taylor, William W., Montclair, N. J. Metallic building. No. 1,155,969; Oct. 5; Gaz. vol. 219; p. 223.
- Taylor, Winfield J., Ord, Neb. Adjustable nose-piece for eyeglasses. No. 1,136,736; Apr. 20; Gaz. vol. 213; p. 1023.
- Tayman, Franklin S., Philadelphia, Pa. Counting apparatus. No. 1,146,975; July 20; Gaz. vol. 216; p. 741.
- Tayman, William E. (See Fittall and Tayman.)
- Tayntor, Charles E., New York, N. Y. Roof for mausoleums, vaults, and the like. No. 1,136,629; Apr. 20; Gaz. vol. 213; p. 985.
- Teagle, Frank H. (See Loew and Teagle.)
- Teague, Edward O., Winchester, Mass. Making shoes. No. 1,138,426; May 4; Gaz. vol. 214; p. 248.
- Teague, Edward O., Winchester, Mass., assignor of one-half to G. A. Dobyne, St. Louis, Mo. Shoe. No. 1,138,425; May 4; Gaz. vol. 214; p. 248.
- Teague, James J., Holbrook, Ariz. Spring billiard and pool cue. No. 1,157,909; Oct. 26; Gaz. vol. 219; p. 1022.
- Teale, Benjamin E. (See Burchardi and Teale.)
- Teall, Oliver E., assignor to Mt. Holyoke Tissue Mills, Holyoke, Mass. Package. No. 1,131,874; Mar. 16; Gaz. vol. 212; p. 777.
- Teamer, James M., assignor of one-third to F. W. Schepman and one-third to C. T. Kohl, Evansville, Ind. Bill-file. No. 1,155,382; Oct. 5; Gaz. vol. 219; p. 19.
- Teare, William H. (See Black and Teare.)
- Tebbetts, George S., Jr., assignor to M. F. Williams, St. Louis, Mo. Adjustable hammer-mill. No. 1,139,920; May 18; Gaz. vol. 214; p. 847.
- Tebbutt, John, Florence, assignor to McCallum Hosiery Company, Northampton, Mass. Method of and means for producing stripes in knit goods. No. 1,145,522; July 6; Gaz. vol. 216; p. 191.
- Tebeau, Ernest, Stockton, Cal. Knife-polishing machine. No. 1,147,828; July 27; Gaz. vol. 216; p. 1064.
- Technical Supply Co. (See Weithel, Clyde F., assignor.)
- Techno-Chemical Laboratories Limited. (See Söderlund, Olof, assignor.)
- Technology Sales Co. (See De Neergaard, Lewis E., assignor.)
- Teehan, John F., Brockton, Mass. Arch-supporting shoe. No. 1,137,807; May 4; Gaz. vol. 214; p. 30.
- Teehan, John F., Brockton, Mass. Arch-supporting shoe. No. 1,144,740; June 29; Gaz. vol. 215; p. 1405.
- Teehan, John F., Brockton, Mass. Arch-support. No. 1,144,741; June 29; Gaz. vol. 215; p. 1405.
- Teel, Raymond A., Bangor, Pa. Bag-lock. No. 1,141,022; May 25; Gaz. vol. 214; p. 1267.
- Teepie, William S., Wellsburg, W. Va. Glass-forming machine. No. 1,154,894; Sept. 28; Gaz. vol. 218; p. 983.
- Teepie, William S., Wellsburg, W. Va. Glass-working machine. No. 1,154,895; Sept. 28; Gaz. vol. 218; p. 984.
- Teeter, Eli, Jersey City, N. J. Oil-feed for internal-combustion engines. No. 1,137,926; May 4; Gaz. vol. 214; p. 71.
- Teeter, Fred, Battle Creek, Mich. Hose-clamp. No. 1,133,195; Mar. 23; Gaz. vol. 212; p. 1307.
- Teeters, Wilson J., Decatur, Neb. Disk implement. No. 1,152,061; Aug. 31; Gaz. vol. 217; p. 1523.
- Tefft, John F., St. Charles, Mich. Stamp-vending machine. No. 1,140,210; May 18; Gaz. vol. 214; p. 949.
- Tegeler, Alois, Nashua, Iowa. Railway-crossing gate. No. 1,126,588; Jan. 26; Gaz. vol. 210; p. 1316.
- Tegoli, August, assignor of one-half to C. Bertoli, Santa Rosa, Cal. Drying apparatus. No. 1,165,917; Dec. 28; Gaz. vol. 221; p. 1236.
- Tegoli, August, assignor of one-third to C. R. Bertoli and one-third to L. Tantimonaco, Santa Rosa, Cal. Drying apparatus. No. 1,135,556; Apr. 13; Gaz. vol. 213; p. 565.

Alphabetical list of patentees—Continued.

- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Butt-hinge. No. 1,139,921; May 18; Gaz. vol. 214; p. 847.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,154,142; Sept. 21; Gaz. vol. 218; p. 698.
- Teichler, Arthur, Chicago, Ill. Sled. No. 1,124,973; Jan. 12; Gaz. vol. 210; p. 667.
- Teige, Charles R., Yonkers, and A. L. Hart, New York, N. Y. Automatic indicator for plate-holders. No. 1,143,462; June 15; Gaz. vol. 215; p. 910.
- Tejera, Carlos E., assignor to L. G. Martinez, Caracas, Venezuela. Game apparatus. No. 1,152,360; Aug. 31; Gaz. vol. 217; p. 1627.
- Telechronometer Company. (See Babcock, Garrison, assignor.)
- Telectric Company, The. (See Reed, Walter C., assignor.)
- Telephantograph-Gesellschaft mit beschränkter Haftung. (See Hoffmann, Hermann, assignor.)
- Telepost Company. (See Delany, Patrick B., assignor.)
- Telford, John D., Palmerston North, New Zealand. Bridle. No. 1,159,291; Nov. 2; Gaz. vol. 220; p. 306.
- Telford, Robert L., Lewisburg, W. Va. Fastener for drawers, &c. No. 1,142,994; June 15; Gaz. vol. 215; p. 745.
- Tellefson, Lars, Reston, Manitoba, Canada. Conveyer mechanism. No. 1,159,129; Nov. 2; Gaz. vol. 220; p. 248.
- Temco Manufacturing Company, The. (See Swift and Reller, assignors.)
- Temm, Francis A., St. Louis, Mo. Automobile top attachment. No. 1,130,348; Mar. 2; Gaz. vol. 212; p. 176.
- Tempinski, Stanislaw. (See Oster and Tempinski.)
- Temple, Alfred O. (See Marvin, Roy L., assignor.)
- Temple, Floyd L., Terre Haute, Ind. Motion-converting device. No. 1,142,641; June 8; Gaz. vol. 215; p. 582.
- Temple, John. (See Clearwater, Temple, and Ramsey.)
- Temple, John, Plainfield, N. J. Automatic measuring device. No. 1,160,787; Nov. 16; Gaz. vol. 220; p. 923.
- Temple, John, Watervliet, assignor to Earl & Willson, Troy, N. Y. Picking mechanism for blank-folding machines. No. 1,132,888; Mar. 23; Gaz. vol. 212; p. 1195.
- Temple, Sterling N. (See Prary and Temple.)
- Templeton, Eva R. (See Hitchcock, Forrest L., assignor.)
- Templeton Manufacturing Company. (See Templeton, William R., assignor.)
- Templeton, Walter B., Chicago, Ill. Gearing. No. 1,143,558; June 15; Gaz. vol. 215; p. 942.
- Templeton, William G., Colorado Springs, Colo. Dispensing-bin. (Reissue.) No. 13,975; Aug. 31; Gaz. vol. 217; p. 1641.
- Templeton, William G., assignor of one-fourth to H. H. Seldomridge, one-fourth to C. B. Seldomridge, and one-fourth to W. N. Burgess, Colorado Springs, Colo. Machine for vending stamps, tickets, coupons, &c. No. 1,157,649; Oct. 19; Gaz. vol. 219; p. 864.
- Templeton, William R., assignor to Templeton Manufacturing Company, Boston, Mass. Steam-trap. No. 1,130,349; Mar. 2; Gaz. vol. 212; p. 176.
- Templin, Joseph H. (See Keller and Templin.)
- Templin, Joseph H. (See Wiedemann and Templin.)
- Templin, Joseph H., assignor, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Vacuum renovating apparatus. No. 1,139,084; May 11; Gaz. vol. 214; p. 518.
- Templin, Joseph H., assignor, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Renovating-tool. No. 1,149,475; Aug. 10; Gaz. vol. 217; p. 454.
- Temte, Otto H., Kathryn, N. D. Combined garden weeder and pulverizer. No. 1,165,636; Dec. 28; Gaz. vol. 221; p. 1140.
- Ten Eyck, Frank E., Boston, Mass., assignor to Auto Air Rotor Company, Gearing. No. 1,134,358; Apr. 6; Gaz. vol. 213; p. 100.
- Ten Eyck, Frank E., Auburn, N. Y., assignor to Auto Air-Rotor Company, Chicago, Ill. Combined air-pump and starter for explosive-engines. No. 1,140,723; May 25; Gaz. vol. 214; p. 1161.
- Tenbusch, William, Pana, Ill. Acetylene-lantern. No. 1,152,991; Sept. 7; Gaz. vol. 218; p. 225.
- Tench, Samuel V., Lansford, Pa. Discharging means for jigs. No. 1,153,527; Sept. 14; Gaz. vol. 218; p. 451.
- Tennessee, John, Jr. (See Bornemann and Tennessee.)
- Tennille, Walter R., Dothan, Ala. Vehicle body-mounting. No. 1,155,528; Oct. 5; Gaz. vol. 219; p. 72.
- Tennyson, Herbert S., Los Angeles, Cal. Spanner-wrench. No. 1,158,085; Oct. 26; Gaz. vol. 219; p. 1083.
- Tenyák, Michael, Amherst, Ohio. Beehive. No. 1,144,878; June 29; Gaz. vol. 215; p. 1453.
- Terava, Henry, Brainerd, Minn. Tie and rail-fastener. No. 1,164,428; Dec. 14; Gaz. vol. 221; p. 637.
- Tercy, John R., Ellsworth, Kans. Statistic game-card. No. 1,123,622; Jan. 5; Gaz. vol. 210; p. 146.
- Terfer, Charles G., Chicago, Ill. Automobile lock-switch. No. 1,152,062; Aug. 31; Gaz. vol. 217; p. 1523.
- Terhaar, Aloysius S., San Diego, Cal. Motor-cycle frame. No. 1,130,038; Mar. 2; Gaz. vol. 212; p. 69.
- Terhorst, Joseph A. (See Myers and Terhorst.)
- Terhune, Charles C., Platte, S. D. Telephone-transmitter. No. 1,125,764; Jan. 19; Gaz. vol. 210; p. 985.
- Terkelson, Albert C., Oakland, Cal. Pump-head. No. 1,159,620; Nov. 9; Gaz. vol. 220; p. 456.
- Terney, Charles F., New York, N. Y., assignor to The Barrel & Cask Closure Company. Bung bushing and closure for barrels. No. 1,129,832; Feb. 23; Gaz. vol. 211; p. 1229.
- Ternstedt, Alvar K., assignor to Perfect Window Regulator Company, New York, N. Y. Window-sealing device. No. 1,125,765; Jan. 19; Gaz. vol. 210; p. 985.
- Terrell, Albert C., Grand Rapids, Mich., assignor to Terrell's Equipment Company. Metal shelving. No. 1,141,991; June 8; Gaz. vol. 215; p. 354.
- Terrell, Clarence D., and J. L. Mask, Covington, Ga. Cotton-cleaner. No. 1,141,366; June 1; Gaz. vol. 215; p. 99.
- Terrell's Equipment Company. (See Terrell, Albert C., assignor.)
- Terrell, Theodore V. (See Smart and Linder, assignors.)
- Terrey, Arthur, Hayes, England, assignor to The Goss Printing Press Company, Chicago, Ill. Paper-reel brake. No. 1,157,457; Oct. 19; Gaz. vol. 219; p. 802.
- Terry, Charles A., et al., executors. (See Westinghouse, George.)
- Terry, Charles L., Indianapolis, Ind. Sheet-metal-drawing machine. No. 1,129,756; Feb. 23; Gaz. vol. 211; p. 1202.
- Terry, Charles R., and B. F. Money, assignors of one-third to B. W. Gratigny, Dallas, Tex. Casing for player-pianos. No. 1,161,360; Nov. 23; Gaz. vol. 220; p. 1173.
- Terry, Edward. (See Terry, Victoria and E.)
- Terry, Edward, Brixton, England. Jet-nozzle for carbureters. No. 1,147,763; July 27; Gaz. vol. 216; p. 1042.
- Terry, Edwin A., Erie, Kans. Necktie-holder. No. 1,151,065; Aug. 24; Gaz. vol. 217; p. 1134.
- Terry, George E., San Francisco, Cal. Butter container and cutter. No. 1,123,623; Jan. 5; Gaz. vol. 210; p. 146.
- Terry, Henry E., Philadelphia, Pa. Seam for rugs. No. 1,136,380; Apr. 20; Gaz. vol. 213; p. 896.
- Terry, Henry E., Philadelphia, Pa. Machine for applying reinforcing means to rug-seams. No. 1,137,243; Apr. 27; Gaz. vol. 213; p. 1242.
- Terry, Isaac C., Buena Vista, Colo. Lamp-shade. No. 1,149,004; Aug. 3; Gaz. vol. 217; p. 184.
- Terry, James F. (See Hines, Wrightsman D., assignor.)
- Terry, James W., San Antonio, Tex. Shipping unit. No. 1,126,315; Jan. 26; Gaz. vol. 210; p. 1215.
- Terry, Lester E., Southampton, N. Y. Cesspool. No. 1,155,970; Oct. 5; Gaz. vol. 219; p. 224.
- Terry, Lewis W. (See Pinnow, Fredrick F., assignor.)
- Terry, Louis, assignor of one-fourth to E. J. Kerwin, one-fourth to E. Thompson, and one-fourth to M. E. Steele, Pine Bluff, Ark. Insecticide and preparing same. No. 1,153,974; Sept. 21; Gaz. vol. 218; p. 641.
- Terry Steam Turbine Company, The. (See London, William J. A., assignor.)
- Terry Steam Turbine Company, The. (See London, Plaine, and Allen, assignors.)
- Terry, Victoria and E., Brixton, England. Support for vines. No. 1,148,130; July 27; Gaz. vol. 216; p. 1174.
- Terry, Virgil, near Roachdale, Ind. Fertilizing attachment for cultivators. No. 1,127,317; Feb. 2; Gaz. vol. 211; p. 228.
- Terry, Willard B., Provo, Utah. Gate. No. 1,127,828; Feb. 9; Gaz. vol. 211; p. 450.
- Terry, William D. (See Marrs, Terry, and Marrs.)
- Terstege, John D., Effingham, Ill. Construction of gates. No. 1,153,877; Sept. 14; Gaz. vol. 218; p. 575.
- Terway, Joe. (See Aspinwall and Terway.)
- Terwilliger, Thomas M., Jr., Walden, N. Y. Cigar-holder. No. 1,143,463; June 15; Gaz. vol. 215; p. 910.
- Terzian, Sahag, St. Louis, Mo. Current-motor. No. 1,128,636; Feb. 16; Gaz. vol. 211; p. 778.
- Tesch, Alexander O., Milwaukee, Wis. Oil-burner. No. 1,139,922; May 18; Gaz. vol. 214; p. 848.
- Teschel, George R., Parkersburg, W. Va. Plate-glass and marble smoother, rounder, and beveler. No. 1,136,296; Apr. 20; Gaz. vol. 213; p. 866.
- Tessier, Julien, assignor to Lubin Manufacturing Company, Philadelphia, Pa. Film-guiding mechanism. No. 1,126,589; Jan. 26; Gaz. vol. 210; p. 1316.
- Tessier, Julien, assignor to Lubin Manufacturing Company, Philadelphia, Pa. Camera lens and diaphragm adjusting mechanism. No. 1,152,238; Aug. 31; Gaz. vol. 217; p. 1583.
- Tessier, Julien, assignor to Lubin Manufacturing Company, Philadelphia, Pa. Motion-picture film. No. 1,159,130; Nov. 2; Gaz. vol. 220; p. 248.
- Tessky, Karl, Charlottenburg, Germany. Automatic lathe. No. 1,158,745; Nov. 2; Gaz. vol. 220; p. 116.
- Tessmer, Frederick P., Detroit, Mich. Vibrator. No. 1,164,889; Dec. 21; Gaz. vol. 221; p. 839.
- Test, Ellis W., and N. A. Leist, Michigan City, Ind. Sliding-door lock. No. 1,161,085; Nov. 23; Gaz. vol. 220; p. 1073.
- Testelin, Auguste, Laeken, and G. S. Renard, Ixelles, Belgium. Apparatus for the industrial manufacture of a new spirit by the isomerization of petroleum. No. 1,138,260; May 4; Gaz. vol. 214; p. 187.
- Testrup, Nils. (See Rigby and Testrup.)

- Testrup, Nils, London, England, and T. Rigby, Dumfries, Scotland, assignors, by mesne assignments, to Wetcarbonizing Limited, London, England. Production of wet carbonized peat briquets. No. 1,139,315; May 11; Gaz. vol. 214; p. 596.
- Testrup, Nils, London, England, and T. Rigby, Dumfries, Scotland, assignors to Wetcarbonizing Limited, London, England. Treatment of peat. No. 1,160,463; Nov. 16; Gaz. vol. 220; p. 806.
- Testrup, Nils, London, England, and T. Rigby, Dumfries, Scotland, assignors to Wetcarbonizing Limited, London, England. Apparatus for the heat treatment of peat. No. 1,160,464; Nov. 16; Gaz. vol. 220; p. 806.
- Testrup, Nils, London, England, T. Rigby, Dumfries, Scotland, and O. Söderlund, assignors to Wetcarbonizing Limited, London, England. Utilization of peat. No. 1,164,429; Dec. 14; Gaz. vol. 221; p. 638.
- Testrup, Nils, M. A. Adam, London, England, T. Rigby, and G. W. Andrew, Dumfries, Scotland, assignors to Wetcarbonizing Limited, London, England. Utilizing the liquid associated with peat. No. 1,145,095; July 6; Gaz. vol. 216; p. 44.
- Teter, Charles K., assignor to The Teter Manufacturing Company, Cleveland, Ohio. Valve for nasal inhalers. No. 1,162,416; Nov. 30; Gaz. vol. 220; p. 1585.
- Teter Manufacturing Company, The. (See Teter, Charles K., assignor.)
- Teters, Alvin R., Boise, Idaho. Concrete form for curbs, walks, &c. No. 1,140,776; May 25; Gaz. vol. 214; p. 1179.
- Tetlow, Lewis J., West Springfield, Mass. Dash-pot. No. 1,149,869; Aug. 10; Gaz. vol. 217; p. 597.
- Tegler, Josef J., Pittsburgh, Pa. Hair-transformer. No. 1,133,196; Mar. 23; Gaz. vol. 212; p. 1307.
- Teuteberg, Jeremiah H., and P. E. Schafer, Baltimore, Md. Emergency operating device for air-brakes. No. 1,159,292; Nov. 2; Gaz. vol. 220; p. 307.
- Teuteberg, John H., Milan, Mo. Safety-stirrup. No. 1,158,746; Nov. 2; Gaz. vol. 220; p. 117.
- Tewis, Lansing K. (See Christofferson, Silas, assignor.)
- Tew, James D., Akron, Ohio. Tubular cord. No. 1,144,079; June 22; Gaz. vol. 215; p. 1146.
- Tew, James D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-vulcanizing apparatus. No. 1,137,097; Apr. 27; Gaz. vol. 213; p. 1189.
- Tewksbury, Charles B., assignor to Security Tag Company, Boston, Mass. Tag. No. 1,127,112; Feb. 2; Gaz. vol. 211; p. 159.
- Tewksbury, Russell B. (See Oster, Herman W., assignor.)
- Texas Company, The. (See Drake, Rollin L., assignor.)
- Textile Machine Works. (See Rahm, Robert C., assignor.)
- Textile Machine Works. (See Zwicky, Melchior, assignor.)
- Thacher, George H., Jr., Albany, N. Y. Feeding device for furnace-grates. No. 1,134,167; Apr. 6; Gaz. vol. 213; p. 30.
- Thacher, George H., Jr., assignor to G. H. Thacher, Sr., Albany, N. Y. Dumping-grate. No. 1,158,747; Nov. 2; Gaz. vol. 220; p. 117.
- Thacher, Walter P., Evanston, assignor to Randall Graphite Sheet Lubricator Company, Chicago, Ill. Spring-lubricator device. No. 1,151,912; Aug. 31; Gaz. vol. 217; p. 1471.
- Thacker, Charles, Ironton, Ohio. Bundling-machine. No. 1,141,730; June 1; Gaz. vol. 215; p. 228.
- Thacker, Warren P. (See Marley, Thacker, and Barnard.)
- Thame, James, London, England. Manufacturing yarn. No. 1,150,464; Aug. 17; Gaz. vol. 217; p. 870.
- Thatcher, Charles J., Upper Nyack, N. Y. Exhausting vessels. No. 1,124,555; Jan. 12; Gaz. vol. 210; p. 518.
- Thatcher, Charles J., New York, N. Y. Photographic developer. No. 1,158,011; Oct. 26; Gaz. vol. 219; p. 1057.
- Thau, August F., Frankfort-on-the-Main, Germany, assignor to M. Than, Govans, Md. Milling-cutter. No. 1,150,555; Aug. 17; Gaz. vol. 217; p. 902.
- Thau, George G., Ewart, Mich. Valve-lifter. No. 1,131,440; Mar. 9; Gaz. vol. 212; p. 588.
- Thau, Mathias. (See Thau, August F., assignor.)
- Thaulow, Erland, Frederiksberg, near Copenhagen, Denmark. Compound for welding aluminium and aluminium-containing alloys. No. 1,139,923; May 18; Gaz. vol. 214; p. 848.
- Thaw, Alexander B., Pittsburgh, Pa. Speed-controller for aeroplanes. No. 1,151,419; Aug. 24; Gaz. vol. 217; p. 1253.
- Thaw, Alexander B., Pittsburgh, Pa. Stabilizer for aeroplanes. No. 1,158,333; Oct. 26; Gaz. vol. 219; p. 1169.
- Thayer, Burt W., assignor to C. E. Ovenshire, Minneapolis, Minn. Knit undergarment. No. 1,130,216; Mar. 2; Gaz. vol. 212; p. 130.
- Thayer, Charles H., assignor of one-third to G. P. Ransom and one-third to G. A. Gucker, Elmira, N. Y. Clutch. No. 1,133,893; Mar. 30; Gaz. vol. 212; p. 1592.
- Thayer, Charles H., assignor of one-fourth to G. P. Ransom, one-fourth to G. A. Gucker, and one-fourth to M. L. Sullivan, Elmira, N. Y. Pressure-regulating device for fire-valves. No. 1,156,328; Oct. 12; Gaz. vol. 219; p. 371.
- Thayer, Franklin M. (See Moore and Thayer.)
- Thayer, Harry M., Woodhull, Ill. Metallic feed-box. No. 1,153,729; Sept. 14; Gaz. vol. 218; p. 522.
- Thayer, Harry M., Woodhull, Ill. Shoe-tongue retainer. No. 1,163,573; Dec. 7; Gaz. vol. 221; p. 293.
- Thayer, Henry W., Syracuse, N. Y. Combined plow and drag. No. 1,128,916; Feb. 16; Gaz. vol. 211; p. 877.
- Thayer, James W., Greenburg, N. Y. Holding arrangement for children's beds. No. 1,156,381; Oct. 12; Gaz. vol. 219; p. 392.
- Thayer, Lewis V., et al. (See Hammond, John W. and P. M., assignors.)
- Thayer, Paul C., Enterprise, Cal. Trap. No. 1,136,297; Apr. 20; Gaz. vol. 213; p. 866.
- Thayer, Roscoe W., Willow Creek, Mont. Pipe-wrench. No. 1,150,078; Aug. 17; Gaz. vol. 217; p. 733.
- Thayer, Russell. (See Luckenbach, Royer, assignor.)
- Thayer, William B. (See Bennett, Willis J., assignor.)
- Thayer, William B., Kansas City, Mo. Floor-polisher. No. 1,141,287; June 1; Gaz. vol. 215; p. 71.
- Theadore, Paul, Lansing, Mich. Lever-press. No. 1,133,512; Mar. 30; Gaz. vol. 212; p. 1455.
- Thebault, Joseph, Central Falls, R. I. Spindle. No. 1,144,394; June 29; Gaz. vol. 215; p. 1286.
- Theberath, Joseph C., Lakewood, assignor of one-third to E. Sharp and one-third to W. D. Graff, Cleveland, Ohio. Signature-collecting mechanism. No. 1,149,546; Aug. 10; Gaz. vol. 217; p. 480.
- Thebert, Frederick T., Bessemer, Mich. Tongs. No. 1,149,476; Aug. 10; Gaz. vol. 217; p. 455.
- Thedsen, Frets, Dike, Iowa. Rocking-chair attachment. No. 1,163,486; Dec. 7; Gaz. vol. 221; p. 262.
- Theis, Leroy W., assignor, by mesne assignments, to S. H. Brooks, Cleveland, Ohio. Gas shut-off. No. 1,125,210; Jan. 19; Gaz. vol. 210; p. 787.
- Theis, Louis F. (See Traver and Theis.)
- Theisen, Ferdinand M., Waumandee, Wis. Rack-and-pinion mechanism. No. 1,133,415; Mar. 30; Gaz. vol. 212; p. 1421.
- Theisen, Hans E., Munich, Germany. Apparatus for cooling, washing, and mixing gases. No. 1,131,966; Mar. 16; Gaz. vol. 212; p. 810.
- Theisen, Hans E., Munich, Germany. Apparatus for washing, cleaning, and cooling gases. No. 1,139,385; May 11; Gaz. vol. 214; p. 622.
- Theleen, Oscar H., assignor to Frost Manufacturing Company, Kenosha, Wis. Lever-operating mechanism. No. 1,147,764; July 27; Gaz. vol. 216; p. 1043.
- Thelen, Karl, and F. Wolf, Stolberg, Germany. Mechanical sulfate-furnace. No. 1,165,815; Dec. 28; Gaz. vol. 221; p. 1201.
- Thenis, Victor. (See Guelff, Dunn, and Thenis.)
- Theo. Smith Manufacturing Company. (See Smith, Theodore, assignor.)
- Théofanidis, Jhon, Athens, Greece. Recoil-operated gun. No. 1,127,942; Feb. 9; Gaz. vol. 211; p. 490.
- Theraul, Edward, San Francisco, Cal. Window-chair. No. 1,149,165; Aug. 3; Gaz. vol. 217; p. 239.
- Theresses, Bennevois G., Chicago, Ill. Sanitary device. No. 1,160,214; Nov. 16; Gaz. vol. 220; p. 720.
- Therault, Napoleon. (See Pierce and Theriault.)
- Theriault, Thomas P., Saeridan, Me. Hat-pin. No. 1,144,263; June 22; Gaz. vol. 215; p. 1213.
- Theriot, James C., Taft, Cal. Well-drilling tool. No. 1,134,930; Apr. 6; Gaz. vol. 213; p. 302.
- Thermal Motor Company. (See Lovekin, Ramsburg, and Nichols, assignors.)
- Thermo Automatic Stove Company. (See Kohlmeier, August H., assignor.)
- Therye, Charles, Marseille, France. Railway-train. No. 1,152,451; Sept. 7; Gaz. vol. 218; p. 24.
- Thew Automatic Shovel Company, The. (See Harris, Hollis H., assignor.)
- Thexton, George W., Milwaukee, Wis. Liquid-fuel burner. No. 1,129,140; Feb. 23; Gaz. vol. 211; p. 992.
- Thickens, John H., Buffalo, N. Y. Preparing wood fiber. No. 1,138,907; May 11; Gaz. vol. 214; p. 455.
- Thiel, Charles P. R., assignor to Davis & Furber Machine Co., North Andover, Mass. Safety device for time-clearers on nappers. No. 1,154,350; Sept. 21; Gaz. vol. 218; p. 771.
- Thiel, Emil, Medford, Wis. Nursing-pail. No. 1,126,316; Jan. 26; Gaz. vol. 210; p. 1216.
- Thiel, John O., Newburg, Mo. Regulator for feed-water heaters. No. 1,146,669; July 13; Gaz. vol. 216; p. 613.
- Thiel, Martin A., assignor to The C. & G. Cooper Co., Mount Vernon, Ohio. Gas-engine valve mechanism. No. 1,128,078; Feb. 9; Gaz. vol. 211; p. 537.
- Thiele, Albrecht, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pyrrolidin derivative. No. 1,148,637; Aug. 3; Gaz. vol. 217; p. 56.
- Thiele, Hans, Friedenau, near Berlin, assignor to Siemens-Schuckertwerke G. m. b. H., Berlin, Germany. Percussion-tool. No. 1,162,889; Dec. 7; Gaz. vol. 221; p. 54.
- Thiem, Joseph, Newport, Ky. Train-pipe coupling. No. 1,156,191; Oct. 12; Gaz. vol. 219; p. 326.
- Thiemann, Ernest F., Milwaukee, Wis. Molding-machine. No. 1,127,113; Feb. 2; Gaz. vol. 211; p. 159.
- Thieme, Emil, Warren, Ohio. Combined curtain-pole and window-shade bracket. No. 1,131,571; Mar. 9; Gaz. vol. 212; p. 633.

Alphabetical list of patentees—Continued.

- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Tabulating mechanism for calculating-machines. No. 1,130,039; Mar. 2; Gaz. vol. 212; p. 69.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Multiple-zero escapement mechanism. No. 1,143,240; June 15; Gaz. vol. 215; p. 833.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,143,241; June 15; Gaz. vol. 215; p. 834.
- Thieme, Otto, assignor to Moon Hopkins Billing Machine Company, St. Louis, Mo. Carriage-shifting mechanism for calculating-machines. No. 1,153,354; Sept. 14; Gaz. vol. 218; p. 389.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Line-counting attachment. No. 1,163,282; Dec. 7; Gaz. vol. 221; p. 191.
- Thiess, Karl. (See Schmidt, Thiess, and Bryk.)
- Thiess, Karl, Sindlingen, near Höchst-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuffs and making same. No. 1,151,628; Aug. 31; Gaz. vol. 217; p. 1373.
- Thilges, Eduard. (See Borchers and Thilges.)
- Thiry, Edward, Pasadena, Cal. Flushing device for closets. No. 1,160,093; Nov. 9; Gaz. vol. 220; p. 623.
- Thiry, Leon, Huy, Belgium. Paper-pulping and like machine. No. 1,159,453; Nov. 9; Gaz. vol. 220; p. 389.
- Thissen, Jacob, Kane, Pa. Cushion-wheel. No. 1,124,675; Jan. 12; Gaz. vol. 210; p. 562.
- Thissen, Jacob, Kane, Pa. Resilient tire. No. 1,126,129; Jan. 26; Gaz. vol. 210; p. 1148.
- Thissen, Jacob, Warren, Pa. Sewing-machine. No. 1,149,797; Aug. 10; Gaz. vol. 217; p. 571.
- Thode, Albert. (See Kiehlund, Jakob, assignor.)
- Thode, Gustav A., Pine Bluff, Wyo. Traction-engine. No. 1,161,424; Nov. 23; Gaz. vol. 220; p. 1196.
- Tboll, George, Chicago, Ill. Machine for assembling leather washers. No. 1,124,360; Jan. 12; Gaz. vol. 210; p. 447.
- Thom, Charles, Washoe, Mont. Wrench. No. 1,147,462; July 20; Gaz. vol. 216; p. 912.
- Thom, Charles, Washoe, Mont. Tool. No. 1,152,239; Aug. 31; Gaz. vol. 217; p. 1584.
- Thoma, Andrew, Cambridge, assignor to North American Chemical Company, Boston, Mass. Shoe-bottom filler. No. 1,134,921; Apr. 6; Gaz. vol. 213; p. 302.
- Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Plastic shoe-bottom filler and making the same. No. 1,136,980; Apr. 27; Gaz. vol. 213; p. 1145.
- Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, Portland, Me. Shoe-bottom filler. No. 1,137,679; Apr. 27; Gaz. vol. 213; p. 1392.
- Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Shoe-filler. No. 1,138,909; May 11; Gaz. vol. 214; p. 456.
- Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Shoe-bottom filler. No. 1,138,910; May 11; Gaz. vol. 214; p. 456.
- Thoman, Josiah M., Hanover, Pa. Milk and bag truck. No. 1,127,546; Feb. 9; Gaz. vol. 211; p. 349.
- Thoman, Samuel E., Shadyside, Ohio. Fruit-press. No. 1,137,808; May 4; Gaz. vol. 214; p. 30.
- Thomas, A. Seymour, *et al.* (See Saint, Lee G., assignor.)
- Thomas, Arthur P., and G. Carlson, San Francisco, Cal. Band-saw machine. No. 1,139,823; May 18; Gaz. vol. 214; p. 813.
- Thomas B. Jeffrey Company, The. (See Bjorn, John, assignor.)
- Thomas B. Jeffrey Company, The. (See De Cou, Jerry W., assignor.)
- Thomas & Betts Company. (See Hall, William A., assignor.)
- Thomas & Betts Company. (See McMurtrie and Church, assignors.)
- Thomas, Bradford A., assignor of one-half to J. Brown, San Francisco, Cal. Hydrocarbon-burner. No. 1,143,150; June 15; Gaz. vol. 215; p. 799.
- Thomas, Carl C., Madison, Wis. Combined internal-combustion engine and turbine and process of converting heat energy into power. No. 1,147,280; July 20; Gaz. vol. 216; p. 845.
- Thomas, Carl C., Madison, Wis. Combined gas engine and turbine and process of converting heat energy into power. No. 1,152,361; Aug. 31; Gaz. vol. 217; p. 1627.
- Thomas, Carl C., Baltimore, Md. Fluid-distributing device. No. 1,159,549; Nov. 9; Gaz. vol. 220; p. 429.
- Thomas, Carl C., Baltimore, Md. Fluid-distributing device. No. 1,163,637; Dec. 28; Gaz. vol. 221; p. 1140.
- Thomas, Cecil O. W., Lewes, England. Lawn-mower. No. 1,148,203; July 27; Gaz. vol. 216; p. 1199.
- Thomas, Charles F., Buckeystown, Md. Brick-surfacing machine. No. 1,131,441; Mar. 9; Gaz. vol. 212; p. 589.
- Thomas, Charles F., Granville county, N. C. Shoe-puller. No. 1,139,144; May 11; Gaz. vol. 214; p. 540.
- Thomas, Charles L., Canisteo, N. Y. Automobile shock-absorber. No. 1,153,876; Sept. 14; Gaz. vol. 218; p. 574.
- Thomas, Charles P., and W. McQueen, Pomeroy, Wash. Automatic safety device. No. 1,124,185; Jan. 5; Gaz. vol. 210; p. 336.
- Thomas, Charles S., *et al.* (See Guinter, William S., assignor.)
- Thomas, Charles W., East Downingtown, assignor to Silica Stone Works, Glenloch, Pa. Making vitrified objects. No. 1,144,395; June 29; Gaz. vol. 215; p. 1287.
- Thomas, Columbus A., Fayetteville, N. C. Gas-regulating valve. No. 1,140,420; May 25; Gaz. vol. 214; p. 1057.
- Thomas, Comadore C., Jr. (See Floberg and Thomas.)
- Thomas, Comadore J., Green Bay, Wis. Journal-box. No. 1,130,858; Mar. 9; Gaz. vol. 212; p. 388.
- Thomas & Company. (See Spaulding, Algernon S., assignor.)
- Thomas Cusack Company. (See Becker, William F., assignor.)
- Thomas Cusack Company, The. (See Cusack, Harold J., assignor.)
- Thomas, Daisy B., New York, N. Y. Hair-waving device. No. 1,148,415; July 27; Gaz. vol. 216; p. 1273.
- Thomas, Daniel. (See Curran, Stanley, assignor.)
- Thomas, Daniel W., Richmond, Ind. Ice-creeper attachment for horseshoes. No. 1,134,296; Apr. 6; Gaz. vol. 213; p. 78.
- Thomas, Douglas H., Jr. (See Troll, Frederick J., assignor.)
- Thomas, Edward, and P. V. Housman, Alton, Ill. Livestock-watering apparatus. No. 1,150,978; Aug. 24; Gaz. vol. 217; p. 1105.
- Thomas, Edward G., Brookline, assignor, by mesne assignments, to Choralcelo Company, Boston, Mass. Instrument for the production of musical tones forming a tempered scale. No. 1,156,329; Oct. 12; Gaz. vol. 219; p. 372.
- Thomas, Edward W., Luton, England. Variable-speed gearing. No. 1,124,974; Jan. 12; Gaz. vol. 210; p. 667.
- Thomas, Edward W., Luton, England. Wheel for road-vehicles. No. 1,139,924; May 18; Gaz. vol. 214; p. 848.
- Thomas, Edwin. (See Langley and Thomas.)
- Thomas, Edwin A., Rochester, N. Y. Runner attachment for baby-carriages. No. 1,158,584; Nov. 2; Gaz. vol. 220; p. 61.
- Thomas Elevator Company. (See Barker, Wendell A., assignor.)
- Thomas, Elmer W., Joliet, Ill. Turning rolls having duplicate passes. No. 1,151,737; Aug. 31; Gaz. vol. 217; p. 1409.
- Thomas, Etta L., Corning, Iowa. Steam-baker. No. 1,156,723; Oct. 12; Gaz. vol. 219; p. 513.
- Thomas, Eugene A., Salt Lake City, Utah. Ball and cue racking device. No. 1,127,318; Feb. 2; Gaz. vol. 211; p. 228.
- Thomas, Frank W., Toledo, Ohio, assignor to The Auto-press Company, New York, N. Y. Inking mechanism. No. 1,135,075; Apr. 13; Gaz. vol. 213; p. 398.
- Thomas, Franz, Schmölln, Germany. Forming casein masses. No. 1,159,878; Nov. 9; Gaz. vol. 220; p. 550.
- Thomas, Franz, Schmölln, Germany. Forming casein masses. No. 1,159,879; Nov. 9; Gaz. vol. 220; p. 550.
- Thomas, Frederic W., New City, N. Y. Phonograph disk record. No. 1,134,774; Apr. 6; Gaz. vol. 213; p. 253.
- Thomas, Frederic W., New City, N. Y. Diaphragm-setting for phonograph-reproducers. No. 1,134,775; Apr. 6; Gaz. vol. 213; p. 253.
- Thomas, George A., and J. A. Yoder, Dubuque, Iowa. Baling-press. No. 1,132,131; Mar. 16; Gaz. vol. 212; p. 870.
- Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Indicator for snap-switches. No. 1,129,757; Feb. 23; Gaz. vol. 211; p. 1203.
- Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric gang-fitting. No. 1,133,197; Mar. 23; Gaz. vol. 212; p. 1308.
- Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,136,737; Apr. 20; Gaz. vol. 213; p. 1024.
- Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,161,752; Nov. 23; Gaz. vol. 220; p. 1307.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical receptacle. No. 1,145,717; July 6; Gaz. vol. 216; p. 261.
- Thomas, George H., Mineral Ridge, Ohio. Spring-hub for wheels. No. 1,139,600; May 18; Gaz. vol. 214; p. 733.
- Thomas, George P., Glenshaw, Pa. Multiple punching-machine. No. 1,141,221; June 1; Gaz. vol. 215; p. 46.
- Thomas, George W., Red Oak, Iowa, assignor to International Blank Book Company. Loose-leaf-binder frame and lock therefor. No. 1,164,031; Dec. 14; Gaz. vol. 221; p. 500.
- Thomas, Harold D. (See Skinner and Thomas.)
- Thomas, Horace T., Lansing, Mich. Change-speed gearing. No. 1,131,291; Mar. 9; Gaz. vol. 212; p. 537.
- Thomas, Horace T., assignor to Reo Motor Car Company, Lansing, Mich. Starter. No. 1,142,285; June 8; Gaz. vol. 215; p. 458.

Alphabetical list of patentees—Continued.

- Thomas, Horace T., assignor to Reo Motor Car Co., Lansing, Mich. Starting mechanism. No. 1,144,010; June 22; Gaz. vol. 215; p. 1122.
- Thomas, Isaiah F., assignor of one-half to E. Johnson, Norristown, Pa. Sugar-box. No. 1,152,992; Sept. 7; Gaz. vol. 218; p. 225.
- Thomas, James H., *et al.* (See Guinter, William S., assignor.)
- Thomas, John A., Zanesville, Ohio. Automobile chemical engine. No. 1,137,927; May 4; Gaz. vol. 214; p. 71.
- Thomas, John A., Zanesville, Ohio. Chemically extinguishing fire. No. 1,164,681; Dec. 21; Gaz. vol. 221; p. 767.
- Thomas, John A., Lansing, Mich. Fire-fighting apparatus. No. 1,152,452; Sept. 7; Gaz. vol. 218; p. 25.
- Thomas, John B., Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Apparatus for applying couplings. No. 1,155,108; Sept. 28; Gaz. vol. 218; p. 1059.
- Thomas, John B., Detroit, Mich., assignor to David C. Cook Publishing Co., Elgin, Ill. Transformation-picture. No. 1,165,466; Dec. 28; Gaz. vol. 221; p. 1079.
- Thomas, John G. P., Holywell, Wales. Power-transmission mechanism. No. 1,144,011; June 22; Gaz. vol. 215; p. 1122.
- Thomas, John G. P., Chiswick, London, England. Variable-speed power transmission. No. 1,165,038; Dec. 21; Gaz. vol. 221; p. 891.
- Thomas, John W., *et al.* (See Lo Rentz, Ralph E., assignor.)
- Thomas, John W., Kansas City, Kans. Combined rail-anchor and tie-plate. No. 1,137,810; May 4; Gaz. vol. 214; p. 31.
- Thomas, John W., Kansas City, Kans., assignor of one-half to J. R. Hamill, Kansas City, Mo. Railway-track appliance. No. 1,137,809; May 4; Gaz. vol. 214; p. 30.
- Thomas, John W., Kansas City, Kans., assignor of one-half to J. R. Hamill, Kansas City, Mo. Railway-tie plate. No. 1,143,559; June 15; Gaz. vol. 215; p. 942.
- Thomas, John W., Kansas City, Kans., assignor of one-half to J. R. Hamill, Kansas City, Mo. Railway-track appliance. No. 1,149,307; Aug. 10; Gaz. vol. 217; p. 396.
- Thomas, Joseph S., Greenville, Miss. Making shoes. No. 1,130,859; Mar. 9; Gaz. vol. 212; p. 388.
- Thomas, Leslie A., Evansville, Ind. Terminal clip. No. 1,132,500; Mar. 16; Gaz. vol. 212; p. 1005.
- Thomas M. Lothrop & Co. (See Lothrop, Thomas M., assignor.)
- Thomas Maddock's Sons Company. (See Kelly, John F., assignor.)
- Thomas Manufacturing Company, The. (See Baxter, Leonidas, assignor.)
- Thomas, Max M., *et al.* (See Lo Rentz, Ralph E., assignor.)
- Thomas, Michael, Blairsville, Pa. Swing. No. 1,140,211; May 18; Gaz. vol. 214; p. 949.
- Thomas, Orlando V., Penang, Straits Settlements. Electrically-insulating compound. No. 1,153,975; Sept. 21; Gaz. vol. 218; p. 641.
- Thomas, Orrin M., Oakland, Cal. Tire-protector. No. 1,138,911; May 11; Gaz. vol. 214; p. 456.
- Thomas P. Taylor Co., The. (See Donahue, Christopher, assignor.)
- Thomas, Percy H., Montclair, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Vapor-converter and circuit therefor. No. 1,131,292; Mar. 9; Gaz. vol. 212; p. 537.
- Thomas, Percy H., Montclair, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. System of car operation by vapor-converters. No. 1,157,823; Oct. 26; Gaz. vol. 219; p. 990.
- Thomas, Percy H., Montclair, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Alternating-current vapor-lamp. No. 1,161,425; Nov. 23; Gaz. vol. 220; p. 1196.
- Thomas, Percy H., Montclair, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Vapor-converter. No. 1,163,705; Dec. 14; Gaz. vol. 221; p. 385.
- Thomas, Percy H., Montclair, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Operating vapor electric apparatus. No. 1,163,706; Dec. 14; Gaz. vol. 221; p. 385.
- Thomas, Percy H., Montclair, assignor, by mesne assignments, to Cooper Hewitt Electric Co., Hoboken, N. J. Single-phase gas or vapor electric apparatus. No. 1,163,707; Dec. 14; Gaz. vol. 221; p. 385.
- Thomas, Percy H., Upper Montclair, N. J., assignor, by mesne assignments, to Cooper Hewitt Electric Company. Means for maintaining vapor-converters in operation. (Reissue.) No. 13,906; Apr. 27; Gaz. vol. 213; p. 1410.
- Thomas, Percy H., Upper Montclair, assignor to Cooper Hewitt Electric Co., Hoboken, N. J. Mercury-vapor apparatus. No. 1,153,976; Sept. 21; Gaz. vol. 218; p. 641.
- Thomas, Percy H., Upper Montclair, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Gas or vapor electric apparatus. No. 1,156,257; Oct. 12; Gaz. vol. 219; p. 348.
- Thomas, Percy H., Upper Montclair, assignor to Cooper Hewitt Electric Co., Hoboken, N. J. Gas or vapor electric apparatus. No. 1,156,825; Oct. 12; Gaz. vol. 219; p. 547.
- Thomas, Percy H., Upper Montclair, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. System of car operation by vapor-converters. No. 1,157,824; Oct. 26; Gaz. vol. 219; p. 990.
- Thomas, Percy H., Upper Montclair, assignor to Cooper Hewitt Electric Co., Hoboken, N. J. Mercury-vapor apparatus. No. 1,163,708; Dec. 14; Gaz. vol. 221; p. 386.
- Thomas, Percy H., East Orange, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Electrical distribution system. No. 1,137,174; Apr. 27; Gaz. vol. 213; p. 1216.
- Thomas, Percy H., East Orange, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Starter for vapor electric devices. No. 1,144,396; June 29; Gaz. vol. 215; p. 1287.
- Thomas, Phillips, Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,164,032; Dec. 14; Gaz. vol. 221; p. 500.
- Thomas, Phillips, Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Measuring capacity and power factor. No. 1,166,159; Dec. 28; Gaz. vol. 221; p. 1324.
- Thomas, Robert N., Shenandoah, Iowa. Combined corn husker and stripper. No. 1,134,245; Apr. 6; Gaz. vol. 213; p. 59.
- Thomas, Roger C., Gooding, Idaho. Water-meter. No. 1,160,465; Nov. 16; Gaz. vol. 220; p. 806.
- Thomas, Stephen S., assignor to The Ecothermal Company, Warren, Ohio. Stove. No. 1,156,330; Oct. 12; Gaz. vol. 219; p. 372.
- Thomas, Tazewell T. (See Heyman, Albert A., assignor.)
- Thomas, Thomas E., Niles, Ohio. Blast-furnace construction. No. 1,137,244; Apr. 27; Gaz. vol. 213; p. 1243.
- Thomas, Thorp R., Bristol, Vt. Box. No. 1,165,638; Dec. 28; Gaz. vol. 221; p. 1140.
- Thomas, Walter, and A. E. Mainwaring, Nanaimo, British Columbia, Canada. Heat-generating furnace. No. 1,128,199; Feb. 9; Gaz. vol. 211; p. 578.
- Thomas, Walter J., Modesto, Cal. Toy. No. 1,127,943; Feb. 9; Gaz. vol. 211; p. 490.
- Thomas, Walter K., New York, N. Y. Strip feeding and cutting machine. No. 1,150,906; Aug. 24; Gaz. vol. 217; p. 1080.
- Thomas, William B., Elmira, N. Y. Shock-absorber. No. 1,165,039; Dec. 21; Gaz. vol. 221; p. 891.
- Thomas, William D., Philadelphia, Pa. Carrier for fragile articles. No. 1,140,857; May 25; Gaz. vol. 214; p. 1210.
- Thomas, William M. (See Lahr, Frank, assignor.)
- Thomas, William N., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,147,765; July 27; Gaz. vol. 216; p. 1043.
- Thomaschewski, Paul, and P. Tust, Vohwinkel, near Elberfeld, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Color-lakes. No. 1,126,664; Jan. 26; Gaz. vol. 210; p. 1342.
- Thomason, Elmer O., Los Angeles, Cal., assignor to Kellar-Thomason Company. Valve. No. 1,164,033; Dec. 14; Gaz. vol. 221; p. 501.
- Thomason, Henry A. W., assignor of one-half to W. F. Dillon, Bellingham, Wash. Rail-fastening device. No. 1,157,600; Oct. 19; Gaz. vol. 219; p. 848.
- Thomaston Knife Company. (See Klocker, Augustus, assignor.)
- Thomes, Albert F., Portland, Me. Furniture-caster. No. 1,145,096; July 6; Gaz. vol. 216; p. 44.
- Thomson, Edvard M. S., Chicago, Ill. Folding metal bed. No. 1,140,212; May 18; Gaz. vol. 214; p. 950.
- Thommen, William H., assignor to Wisconsin Chair Company, Port Washington, Wis. Convertible furniture. No. 1,144,397; June 29; Gaz. vol. 215; p. 1287.
- Thommen, William H., assignor to Wisconsin Chair Company, Port Washington, Wis. Convertible furniture. No. 1,144,398; June 29; Gaz. vol. 215; p. 1287.
- Thompson, Albert F., Dallas, Tex. Fastening for eyeglass-lenses. No. 1,163,872; Dec. 14; Gaz. vol. 221; p. 444.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Cal. Syrupe. No. 1,147,345; July 20; Gaz. vol. 216; p. 868.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Cal. Syrupe. No. 1,147,346; July 20; Gaz. vol. 216; p. 869.
- Thompson Automatic Signal Company, The. (See Thompson, James T., assignor.)
- Thompson, Boyd S., Grand Rapids, Mich. Adjustable parallel gage. No. 1,161,753; Nov. 23; Gaz. vol. 220; p. 1308.
- Thompson, Cassius P., Lawrenceville, Ill. Pump-rod coupling. No. 1,133,513; Mar. 30; Gaz. vol. 212; p. 1456.
- Thompson, Charles B., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Sectional boiler. No. 1,146,743; July 13; Gaz. vol. 216; p. 638.
- Thompson, Charles M., New Philadelphia, Ohio. Channeling-tool. No. 1,166,277; Dec. 28; Gaz. vol. 221; p. 1368.

Alphabetical list of patentees—Continued.

- Thompson, Clement E., assignor to The Lamson Company, Boston, Mass. Store-service apparatus. No. 1,131,806; Mar. 16; Gaz. vol. 212; p. 753.
- Thompson, Clyde O., Boone, Iowa. Resilient wheel. No. 1,129,758; Feb. 23; Gaz. vol. 211; p. 1203.
- Thompson, Edmund A., Amherst, Mass. Magnifying instrument. No. 1,148,550; Aug. 3; Gaz. vol. 217; p. 23.
- Thompson, Edmund J., Ottawa, Ontario, Canada. Carbureter. No. 1,130,350; Mar. 2; Gaz. vol. 212; p. 177.
- Thompson, Edward C., Marshall, Mich. Hot-air furnace. No. 1,148,726; Aug. 3; Gaz. vol. 217; p. 87.
- Thompson, Edward L., Glenns Ferry, Idaho. Convertible body for motor-vehicles. No. 1,131,875; Mar. 16; Gaz. vol. 212; p. 777.
- Thompson, Edward L., assignor of one-half to B. H. Cornell, Glenns Ferry, Idaho. Vehicle-tire. No. 1,129,528; Feb. 23; Gaz. vol. 211; p. 1127.
- Thompson, Edward M., Beloit, Wis., assignor to Stewart-Warner Speedometer Corporation. Means for compensating speedometers and similar devices for temperature variations. No. 1,134,649; Apr. 6; Gaz. vol. 213; p. 207.
- Thompson, Edwin W., Steubenville, Ohio. Combined shade and curtain holder. No. 1,139,000; May 11; Gaz. vol. 214; p. 488.
- Thompson Electric Clock Company. (See Thompson, William H., assignor.)
- Thompson, Elizabeth, *et al.* (See Terry, Louis, assignor.)
- Thompson, Ellis, Santa Fe, Ohio. Dividers. No. 1,150,556; Aug. 17; Gaz. vol. 217; p. 903.
- Thompson, Elmer B., Des Moines, Iowa. Rotary pump. No. 1,150,079; Aug. 17; Gaz. vol. 217; p. 733.
- Thompson, Elmer B., Des Moines, Iowa. Pump mechanism. No. 1,156,724; Oct. 12; Gaz. vol. 219; p. 513.
- Thompson, Ennis H., and J. E. Kajut, Arnold, assignors to Window Glass Machine Company, Pittsburgh, Pa. Capping-off apparatus for glass cylinders. No. 1,143,242; June 15; Gaz. vol. 215; p. 834.
- Thompson, Enos, Radnor, W. Va. Life-saving sectional steamer. No. 1,151,420; Aug. 24; Gaz. vol. 217; p. 1253.
- Thompson, Firman, Newark, Del., assignor to The Crescent Clay Refining Company, Baltimore, Md. Treating clay and like materials. No. 1,132,537; Mar. 16; Gaz. vol. 212; p. 1019.
- Thompson, Floyd J. (See Leonard and Thompson.)
- Thompson, Frank S. (See Murphy and Thompson.)
- Thompson, Frank T., Chicago, Ill., assignor to Ostrander Seymour Company. Type-plate-straightening machine. No. 1,148,131; July 27; Gaz. vol. 216; p. 1175.
- Thompson, Franklin M. (See Cox, Charles C., assignor.)
- Thompson, George, Grand Rapids, Mich. Car-door. No. 1,159,550; Nov. 9; Gaz. vol. 220; p. 429.
- Thompson, George E., Stockton, Cal. Gas-saver for explosive-motors. No. 1,139,737; May 18; Gaz. vol. 214; p. 782.
- Thompson, George E., Owatonna, Minn. Lightning-rod terminal. No. 1,150,907; Aug. 24; Gaz. vol. 217; p. 1080.
- Thompson, George F., assignor to American Patent Holding Co., Minneapolis, Minn. Evener-coupling. (Re-issue.) No. 13,907; Apr. 27; Gaz. vol. 213; p. 1411.
- Thompson, George S. (See Hume and Thompson.)
- Thompson, George T., Philadelphia, Pa. Rotary engine. No. 1,131,750; Mar. 16; Gaz. vol. 212; p. 731.
- Thompson, George W. (See Wright, Smart, Hopper, and Thompson.)
- Thompson, Grant U., Cedar Falls, Iowa. Eraser-cleaning machine. No. 1,163,283; Dec. 7; Gaz. vol. 221; p. 191.
- Thompson, Grant U., Cedar Falls, Iowa. Eraser-cleaning machine. No. 1,163,284; Dec. 7; Gaz. vol. 221; p. 192.
- Thompson, Harold M., *et al.* (See Craw, Joseph T., assignor.)
- Thompson, Harry E., Montrose, Colo. Head-gate. No. 1,161,997; Nov. 30; Gaz. vol. 220; p. 1440.
- Thompson, Henry G., Cleveland, assignor to The A. C. Williams Company, Ravenna, Ohio. Damper. No. 1,144,971; June 29; Gaz. vol. 215; p. 1483.
- Thompson, Herman A., Portland, Oreg. Flushing apparatus. No. 1,146,114; July 13; Gaz. vol. 216; p. 418.
- Thompson, Irwin M., Bannister, La. Bale-tie. No. 1,130,551; Mar. 2; Gaz. vol. 212; p. 250.
- Thompson, J. Walter. (See Bell and Maguire, assignors.)
- Thompson, Jacob M., Fond du Lac, Wis. Apparatus for construction of cement buildings. No. 1,130,647; Mar. 2; Gaz. vol. 212; p. 281.
- Thompson, James, Greeley, Colo. Dumping-wagon. No. 1,140,213; May 18; Gaz. vol. 214; p. 950.
- Thompson, James, New York, N. Y. Fountain-divider. No. 1,158,334; Oct. 26; Gaz. vol. 219; p. 1170.
- Thompson, James E., Oakville, N. Y. Adjustable hopper and trough feeding device for fowls. No. 1,149,477; Aug. 10; Gaz. vol. 217; p. 455.
- Thompson, James E., Troy, Ala. Porch furniture. No. 1,157,458; Oct. 19; Gaz. vol. 219; p. 802.
- Thompson, James M., Monessen, Pa. Lock-nut. No. 1,159,131; Nov. 2; Gaz. vol. 220; p. 249.
- Thompson, James S., Pelham, N. Y. Brake-shoe. No. 1,130,680; Mar. 2; Gaz. vol. 212; p. 293.
- Thompson, James S., Chicago, Ill. Hydrocarbon-furnace. No. 1,148,468; July 27; Gaz. vol. 216; p. 1291.
- Thompson, James T., Chicago, Ill. Train control and signal system. No. 1,127,944; Feb. 9; Gaz. vol. 211; p. 491.
- Thompson, James T., assignor to The Thompson Automatic Signal Company, Chicago, Ill. Train control and signal system. No. 1,135,557; Apr. 13; Gaz. vol. 213; p. 565.
- Thompson, Jay L., assignor of one-third to A. W. Gibson and one-third to A. W. McKinley, Greensburg, Kans. Paper-feeding device. No. 1,137,553; Apr. 27; Gaz. vol. 213; p. 1351.
- Thompson, Jesse M., *et al.* (See Lockwood, Charles F., assignor.)
- Thompson, John A., Rosebank, N. Y. Signaling device for motor-vehicles. No. 1,138,809; May 11; Gaz. vol. 214; p. 421.
- Thompson, John A., Des Moines, Iowa. Light-dimmer. No. 1,153,464; Sept. 14; Gaz. vol. 218; p. 428.
- Thompson, John D., Brinkley, Ark. Brake-rigging safety appliance. No. 1,163,046; Dec. 7; Gaz. vol. 221; p. 109.
- Thompson, John H., Greenville, Ohio. Brush-holding device. No. 1,153,730; Sept. 14; Gaz. vol. 218; p. 522.
- Thompson, John L., El Centro, Cal. Toy. No. 1,143,867; June 22; Gaz. vol. 215; p. 1072.
- Thompson, John L., El Centro, Cal. Baking-rack. No. 1,159,132; Nov. 2; Gaz. vol. 220; p. 249.
- Thompson, John S., Chicago, Ill. Type-casting machine. No. 1,133,198; Mar. 23; Gaz. vol. 212; p. 1308.
- Thompson, Joseph F., assignor of one-half to G. H. Spindler, Marietta, Ohio. Extension car-step. No. 1,129,027; Feb. 16; Gaz. vol. 211; p. 916.
- Thompson, Joshua E., assignor of one-half to W. A. Blount, Richmond, Ky. Railway cross-tie. No. 1,151,066; Aug. 24; Gaz. vol. 217; p. 1134.
- Thompson, Lee C., and J. A. Garriss, Albion, Pa. Dirigible automobile-headlight. No. 1,133,681; Mar. 30; Gaz. vol. 212; p. 1518.
- Thompson, Livingston A., Waukesha, Wis. Malted-milk confection. No. 1,127,114; Feb. 2; Gaz. vol. 211; p. 159.
- Thompson, Lloyd H. (See Oliver, Lott D., assignor.)
- Thompson, Louis W. (See Gardner, Frederick N. and F. E., assignors.)
- Thompson, Luther C., Washington, D. C., assignor to F. Franz, Baltimore, Md. Thrust-bearing journal-box. No. 1,141,667; June 1; Gaz. vol. 215; p. 206.
- Thompson, Maurice. (See Nickelsen and Thompson.)
- Thompson, Merwin S. (See Dowd and Thompson.)
- Thompson, Milton E., Ridgway, Pa. Turbine-wheel. No. 1,129,920; Mar. 2; Gaz. vol. 212; p. 30.
- Thompson, Milton E., Ridgway, Pa. Dynamo-electric machine. No. 1,138,912; May 11; Gaz. vol. 214; p. 456.
- Thompson, Milton T., Mexico, Mexico. Apparatus for crushing or recrushing rocks, ores, &c. No. 1,132,047; Mar. 16; Gaz. vol. 212; p. 840.
- Thompson, Newton B., Kansas City, Kans. Board-bundling machine. No. 1,152,670; Sept. 7; Gaz. vol. 218; p. 108.
- Thompson, Oscar L., New York, N. Y. Folding wheelbarrow. No. 1,145,523; July 6; Gaz. vol. 216; p. 191.
- Thompson, Owen A. (See Overly and Thompson.)
- Thompson, Ralph P. (See Koeb and Thompson.)
- Thompson, Ralph P., Leipsic, Ohio. Spring suspension. No. 1,158,585; Nov. 2; Gaz. vol. 220; p. 62.
- Thompson, Reuben B., Cohoes, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,136,846; Apr. 20; Gaz. vol. 213; p. 1062.
- Thompson, Robert W. (See Martin, Eugene J., assignor.)
- Thompson, Roy E., New York, N. Y., assignor, by mess assignments, of one-half to A. V. Beer, New Orleans, La. Railway block system. No. 1,135,225; Apr. 13; Gaz. vol. 213; p. 448.
- Thompson, Roy L., Los Angeles, Cal. Door-catch. No. 1,128,550; Feb. 16; Gaz. vol. 211; p. 750.
- Thompson, Salmon, Jr., Cedar Falls, Iowa. Burner. No. 1,149,870; Aug. 10; Gaz. vol. 217; p. 598.
- Thompson, Samuel A., New York, N. Y. Type-writer. No. 1,138,427; May 4; Gaz. vol. 214; p. 249.
- Thompson, Samuel K., Jenkintown, Pa. Controlling system for electrical apparatus. No. 1,144,264; June 22; Gaz. vol. 215; p. 1213.
- Thompson, Terry B., Washington, D. C. Torsion-meter. No. 1,125,766; Jan. 19; Gaz. vol. 210; p. 985.
- Thompson, Thomas. (See Hansen and Thompson.)
- Thompson, Thomas, assignor to American Textile Company, Pawtucket, R. I. Variable-speed bobbin-winding machine. No. 1,126,317; Jan. 26; Gaz. vol. 210; p. 1216.
- Thompson, Thomas E., Monrovia, Cal. Educational device. No. 1,163,184; Dec. 7; Gaz. vol. 221; p. 158.
- Thompson, Thomas S., Belfast, Me. Spring-wheel. No. 1,145,718; July 6; Gaz. vol. 216; p. 261.
- Thompson, Victor, Vancouver, British Columbia, Canada. Telephone-call-registering device. No. 1,141,367; June 1; Gaz. vol. 215; p. 100.
- Thompson, Viola A. S., administratrix. (See Thompson, William F.)
- Thompson, Walter S., Manistee, Mich. Rack or holder. No. 1,127,319; Feb. 2; Gaz. vol. 211; p. 228.

Alphabetical list of patentees—Continued.

- Thompson, William B., Los Gatos, Cal. Tire-protector. No. 1,144,445; June 29; Gaz. vol. 215; p. 1303.
- Thompson, William B., Los Gatos, Cal. Combined tire protector and guard. No. 1,145,394; July 6; Gaz. vol. 216; p. 146.
- Thompson, William C., Stellacom, Wash. Device for separating, washing, and grading sand and gravel. No. 1,149,989; Aug. 10; Gaz. vol. 217; p. 642.
- Thompson, William D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,126,915; Feb. 2; Gaz. vol. 211; p. 88.
- Thompson, William D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car. No. 1,137,928; May 4; Gaz. vol. 214; p. 71.
- Thompson, William D., Detroit, Mich., and S. Otis, Chicago, Ill., assignors to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,156,944; Oct. 19; Gaz. vol. 219; p. 619.
- Thompson, William F., deceased, New York; V. A. S. Thompson, administratrix, Rochester, assignor to O. A. Logan, New York, N. Y. Non-refillable bottle. No. 1,157,735; Oct. 26; Gaz. vol. 219; p. 961.
- Thompson, William H., assignor to Thompson Electric Clock Company, Memphis, Tenn. Clock. No. 1,148,727; Aug. 3; Gaz. vol. 217; p. 88.
- Thompson, William H., assignor to Thompson Electric Clock Company, Memphis, Tenn. Clock. No. 1,148,728; Aug. 3; Gaz. vol. 217; p. 88.
- Thompson, William H., assignor to Thompson Electric Clock Company, Memphis, Tenn. Electric clock. No. 1,150,979; Aug. 24; Gaz. vol. 217; p. 1106.
- Thompson, William H., assignor to Thompson Electric Clock Company, Memphis, Tenn. Clock. No. 1,154,076; Sept. 21; Gaz. vol. 218; p. 677.
- Thompson, William H., assignor to Thompson Electric Clock Company, Memphis, Tenn. Electric automobile clock. No. 1,160,466; Nov. 16; Gaz. vol. 220; p. 806.
- Thompson, William H., Memphis, Tenn., assignor to United Development Corporation. Time-service-controlled mechanism. No. 1,160,115; Nov. 9; Gaz. vol. 220; p. 632.
- Thompson, William I., Stoneham, assignor of one-third to A. M. Lux and one-third to W. J. Lux, Woburn, Mass. Target placing and shifting apparatus. No. 1,157,342; Oct. 19; Gaz. vol. 219; p. 761.
- Thompson, William I., Stoneham, assignor of one-third to A. M. Lux and one-third to W. J. Lux, Woburn, Mass. Electrically-heated tool. No. 1,157,343; Oct. 19; Gaz. vol. 219; p. 761.
- Thompson, William J., Quebec, Quebec, Canada. Automatic life-saving bench. No. 1,147,988; July 27; Gaz. vol. 216; p. 1122.
- Thompson, William M., New Philadelphia, Ohio. Weather-strip. No. 1,142,995; June 15; Gaz. vol. 215; p. 745.
- Thompson, William P. (See Barton and Thompson.)
- Thompson, William P., Birkenhead, England. Distillation of petroleum. No. 1,160,670; Nov. 16; Gaz. vol. 220; p. 883.
- Thoms, Albert H., Indianapolis, Ind. Shipping-crate. No. 1,132,637; Mar. 23; Gaz. vol. 212; p. 1104.
- Thomsen, Magnus A., Oakland, Cal. Shock-absorber. No. 1,129,819; Feb. 23; Gaz. vol. 211; p. 1224.
- Thomsen, Peter, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmsböhe, Germany. Superheater. No. 1,139,601; May 18; Gaz. vol. 214; p. 733.
- Thomsen, Peter F., et al. (See Lasschuit, Pierre T. A., assignor.)
- Thomson, Alexander, Summit, N. J. Valve. No. 1,158,869; Nov. 2; Gaz. vol. 220; p. 162.
- Thomson, Charles J., Philadelphia, Pa. Fastening device for electrotypes. No. 1,139,925; May 18; Gaz. vol. 214; p. 848.
- Thomson, Datliff F., Bettsville, Ohio. Float-operated circuit-closer. No. 1,153,142; Sept. 7; Gaz. vol. 218; p. 273.
- Thomson Electric Welding Company. (See Mack, Richard, assignor.)
- Thomson Electric Welding Company. (See Peiseler, Kuno, assignor.)
- Thomson Electric Welding Company. (See Rietzel and Barstow, assignors.)
- Thomson Electric Welding Company. (See Thomson, Elihu, assignor.)
- Thomson, Elihu, Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric seam-welding. No. 1,123,624; Jan. 5; Gaz. vol. 210; p. 146.
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Induction-motor. No. 1,134,776; Apr. 6; Gaz. vol. 213; p. 254.
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Means for preventing corona loss. No. 1,157,344; Oct. 19; Gaz. vol. 219; p. 762.
- Thomson, James, St. Petersburg, Fla. Combined cue and game-indicator. No. 1,159,133; Nov. 2; Gaz. vol. 220; p. 249.
- Thomson, Keller C., Yazoo City, Miss. Draft attachment for automobiles. No. 1,162,822; Dec. 7; Gaz. vol. 221; p. 32.
- Thomson, Samuel G., Reading, Pa. Locomotive. No. 1,145,524; July 6; Gaz. vol. 216; p. 192.
- Thomson, Samuel G., Reading, Pa. Steam-boiler furnace. No. 1,147,567; July 20; Gaz. vol. 216; p. 947.
- Thomson, Samuel G., Reading, Pa. Reversing mechanism for locomotives. No. 1,150,645; Aug. 17; Gaz. vol. 217; p. 934.
- Thomson, Samuel G., Reading, Pa. Locomotive. No. 1,152,863; Sept. 7; Gaz. vol. 218; p. 178.
- Thomson, William I., Newark, N. J., assignor to The Safety Car Heating & Lighting Company. Dynamo-mounting. No. 1,148,551; Aug. 3; Gaz. vol. 217; p. 24.
- Thomson, William I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical steam-generator. No. 1,148,808; Aug. 3; Gaz. vol. 217; p. 117.
- Thomson, William I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Generator mounting and drive for railway-cars. No. 1,154,671; Sept. 28; Gaz. vol. 218; p. 911.
- Thomson, William I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Dynamo-mounting. No. 1,162,196; Nov. 30; Gaz. vol. 220; p. 1510.
- Thomson, William P. (See Smith and Thomson.)
- Thomson, William P., Philadelphia, Pa. Nut-lock. No. 1,147,568; July 20; Gaz. vol. 216; p. 947.
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,135,862; Apr. 13; Gaz. vol. 213; p. 673.
- Thomson, William S., assignor to The H. D. Smith & Company, Plantsville, Conn. Wrench. No. 1,123,423; Jan. 5; Gaz. vol. 210; p. 77.
- Thomson, William S., assignor to The H. D. Smith & Company, Plantsville, Conn. Belt-tightener for grinding-machines. No. 1,137,033; Apr. 27; Gaz. vol. 213; p. 1165.
- Thomson, William S., assignor to The H. D. Smith & Company, Plantsville, Conn. Pliers and similar tool. No. 1,159,621; Nov. 9; Gaz. vol. 220; p. 456.
- Thoner, Peder C., et al. (See Christiansen, Ole F., assignor.)
- Thorandt, Paul H., Lichtenfelde, near Berlin, and A. Kohn, Charlottenburg, Germany. Collar-support. No. 1,154,550; Sept. 21; Gaz. vol. 218; p. 838.
- Thorberg, George E., Mandan, N. D. Cord-adjuster for electric drop-lights. No. 1,130,860; Mar. 9; Gaz. vol. 212; p. 389.
- Thordarson, Chester H., Chicago, Ill. Surge-proof transformer. No. 1,160,960; Nov. 16; Gaz. vol. 220; p. 984.
- Thordarson, Chester H., Chicago, Ill. Producing electromagnetic coils. No. 1,165,558; Dec. 28; Gaz. vol. 221; p. 1110.
- Thoren, Ernst F., St. Louis, assignor of one-half to E. E. Laun, Clayton, Mo. Belt-trimming machine. No. 1,125,602; Jan. 19; Gaz. vol. 210; p. 925.
- Thoren, Ernst F., St. Louis, assignor of one-half to E. E. Laun, Clayton, Mo. Belt-polishing machine. No. 1,139,386; May 11; Gaz. vol. 214; p. 622.
- Thoresen, Hallgrim, Vestre Alter, near Christiania, and J. C. Falch, said Thoresen assignor to N. R. Heyerdahl, Christiania, Norway. Centrifugal strainer for wood-pulp and cellulose. No. 1,145,997; July 6; Gaz. vol. 216; p. 45.
- Thoreson, John C. (See Overn and Thoreson.)
- Thoreson, Martin A., Murdock, Minn. Gearing for traction-engines. No. 1,131,572; Mar. 9; Gaz. vol. 212; p. 633.
- Thorman, Frank. (See Bromet, Thorman, and Wood.)
- Thorn, Lawrence T., Lynnvile, Tenn. Railway-tie. No. 1,133,761; Mar. 30; Gaz. vol. 212; p. 1545.
- Thornburg, Ada F., Elkin, N. C. Heating-due construction for buildings. No. 1,148,061; July 27; Gaz. vol. 216; p. 1148.
- Thornburg, Lincoln A., Muncie, Ind., assignor to Window Glass Machine Company, Pittsburgh, Pa. Glass-drawing apparatus. No. 1,124,823; Jan. 12; Gaz. vol. 210; p. 614.
- Thornburg, Lincoln A., Muncie, Ind., assignor of one-half to L. S. Skelton, Okmulgee, Okla. Glass-drawing apparatus. No. 1,163,487; Dec. 7; Gaz. vol. 221; p. 263.
- Thornburg, Lincoln A., Arnold, assignor to American Window Glass Machine Company, Pittsburgh, Pa. Glass-making furnace. No. 1,127,115; Feb. 2; Gaz. vol. 211; p. 160.
- Thornburgh, Harry E., assignor to Perfection Egg Company, Chicago, Ill. Treating eggs. No. 1,163,873; Dec. 14; Gaz. vol. 221; p. 444.
- Thorne, Thomas W., assignor to W. H. Miner, Chicago, Ill. Latch for car-doors. No. 1,127,116; Feb. 2; Gaz. vol. 211; p. 160.
- Thornier, Walther, Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Cinematographic apparatus. No. 1,151,978; Aug. 31; Gaz. vol. 217; p. 1494.
- Thornley, William H., administrator. (See Smith, Charles S.)
- Thornton, David W., Conrad, Mont. Check-registering device. No. 1,132,529; Mar. 16; Gaz. vol. 212; p. 1016.
- Thornton, Douglas, Yonkers, N. Y. Music-leaf turner. No. 1,153,731; Sept. 14; Gaz. vol. 218; p. 522.
- Thornton, Eugene, and G. M. Wheeler, Butte, Mont. Air-heating device for explosive-engines. No. 1,131,016; Mar. 9; Gaz. vol. 212; p. 442.

Alphabetical list of patentees—Continued.

- Thornton, Frank, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric heating apparatus. No. 1,158,586; Nov. 2; Gaz. vol. 220; p. 62.
- Thornton, Frank, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Sad-iron stand. No. 1,161,167; Nov. 23; Gaz. vol. 220; p. 1103.
- Thornton, Frederick, Huntington, W. Va. Trolley. No. 1,136,847; Apr. 20; Gaz. vol. 213; p. 1062.
- Thornton, John A., McDonoughville, La. Portable mono-rail construction. No. 1,124,361; Jan. 12; Gaz. vol. 210; p. 447.
- Thornton, John A., McDonoughville, La. Conveyor system. No. 1,145,525; July 6; Gaz. vol. 216; p. 192.
- Thornton, John A., and W. A. Settle, assignors of one-third to F. B. Allen, Walla Walla, Wash. Camp-table. No. 1,155,971; Oct. 5; Gaz. vol. 219; p. 224.
- Thornton, John E., London, England. Apparatus for printing cinematograph-films. No. 1,158,587; Nov. 2; Gaz. vol. 220; p. 63.
- Thornton, John E., Rochester, N. Y. Apparatus for printing cinematograph-films. No. 1,160,671; Nov. 16; Gaz. vol. 220; p. 883.
- Thornton, John N., Jersey City, N. J., assignor to J. T. Underwood, Brooklyn, N. Y. Computing-machine. No. 1,146,371; July 13; Gaz. vol. 216; p. 508.
- Thornton, Robert E., *et al.* (See Lovenberg, Adelaide, assignor.)
- Thornton, William A., *et al.* (See Lind, Carl A., assignor.)
- Thorp, George G., Chicago, Ill. Furnace. No. 1,144,511; June 29; Gaz. vol. 215; p. 1326.
- Thorp, James M., Alameda, Cal. Scaffold-support. No. 1,131,172; Mar. 9; Gaz. vol. 212; p. 495.
- Thorp, James M., Alameda, Cal. Acroplane alighting and launching apparatus. No. 1,164,967; Dec. 21; Gaz. vol. 221; p. 866.
- Thorp, Vernon E., Alameda, Cal. Snatch-block. No. 1,135,740; Apr. 13; Gaz. vol. 213; p. 630.
- Thorsby, Karl J., assignor to California Corrugated Culvert Company, Oakland, Cal. Pipe-expander. No. 1,132,807; Mar. 23; Gaz. vol. 212; p. 1167.
- Thorschmidt, Ernest C., New York, N. Y. Cutting and conveying mechanism. No. 1,160,788; Nov. 16; Gaz. vol. 220; p. 923.
- Thorschmidt, Ernest C., New York, N. Y. Candy-wrapping machine. No. 1,163,709; Dec. 14; Gaz. vol. 221; p. 386.
- Thorsen, Ole I., Seattle, Wash. Preparation of foodstuffs. No. 1,164,034; Dec. 14; Gaz. vol. 221; p. 501.
- Thorsen, Thomas. (See Ericson, Thure E., assignor.)
- Thorson, Anton I. (See Baarson and Thorson.)
- Thorson, Samuel T., Boston, Mass. Check-protector. No. 1,153,832; Sept. 14; Gaz. vol. 218; p. 558.
- Thorsrud, A. B., administrator. (See Bordson, Martin M.)
- Thos. Cusack Company. (See Conner and Willett, assignors.)
- Thos. Cusack Company. (See Hopkins, Frank T., assignor.)
- Thourreen, William. (See Peterson, Per O., assignor.)
- Thowless, Orlando M., Newark, N. J. Glowler for electrical incandescent lamps. No. 1,123,625; Jan. 5; Gaz. vol. 210; p. 147.
- Thowless, Orlando M., Newark, N. J. Ductile filament. No. 1,149,701; Aug. 10; Gaz. vol. 217; p. 538.
- Thrasher, John W., assignor of two-thirds to A. B. Garber and C. C. Warren, Waco, Tex. Rivet setting and displacing tool. No. 1,130,121; Mar. 2; Gaz. vol. 212; p. 97.
- Thrasher, Samuel P., Chicago, Ill. Motion-transmitting mechanism. No. 1,158,588; Nov. 2; Gaz. vol. 220; p. 63.
- 3 in 1 Shoe Stretcher Company. (See Kaye, James E., assignor.)
- Threewits, Alvin M., Centerville, Ind. Railway-tie and rail-lock. No. 1,157,459; Oct. 19; Gaz. vol. 219; p. 802.
- Threlkeld, John H., Chariton, Iowa. Automatic stock and poultry fountain. No. 1,136,738; Apr. 20; Gaz. vol. 213; p. 1024.
- Threlkeld, Stephen A., Chariton, Iowa. Spring-bolster mounting. No. 1,131,017; Mar. 9; Gaz. vol. 212; p. 442.
- Throckmorton, Ray, Philadelphia, Pa. Automobile-fender. No. 1,157,460; Oct. 19; Gaz. vol. 219; p. 803.
- Thronson, Bartholomew C. (See Rasmussen, Martin, assignor.)
- Thronson, Bartholomew C., *et al.* (See Rasmussen, Martin, assignor.)
- Thropp, John E., Trenton, N. J. Read-adjusting device. No. 1,131,173; Mar. 9; Gaz. vol. 212; p. 495.
- Thropp, John E. and P. D., Trenton, and A. De Laski, Weehawken, assignors to The De Laski and Thropp Circular Woven Tire Company, Trenton, N. J. Machine for making or building up pneumatic tires. No. 1,137,365; Apr. 27; Gaz. vol. 213; p. 1287.
- Thropp, Peter D. (See Thropp and De Laski.)
- Thropp, Peter D., assignor to The De Laski and Thropp Circular Woven Tire Company, Trenton, N. J. Vulcanizer. No. 1,152,993; Sept. 7; Gaz. vol. 218; p. 225.
- Thuesen, Holger G., Cedar Falls, Iowa. Speed-indicator. No. 1,159,551; Nov. 9; Gaz. vol. 220; p. 430.
- Thuillier, Georges, Nogent en Bassigny, France, assignor to Gillette Safety Razor Company, Boston, Mass. Apparatus for hardening very thin metallic plates. No. 1,141,155; June 1; Gaz. vol. 215; p. 22.
- Thulander, Konstantine, assignor to National Lock Company, Rockford, Ill. Safety device for stamping-machines, &c. No. 1,133,199; Mar. 23; Gaz. vol. 212; p. 1309.
- Thulander, Konstantine, Rockford, Ill., assignor to A. A. Anderson, Jamestown, N. Y. Fastening device for furniture. No. 1,158,748; Nov. 2; Gaz. vol. 220; p. 118.
- Thumm, William, Chicago, Ill. Water-seal valve. No. 1,141,668; June 1; Gaz. vol. 215; p. 206.
- Thune, Sverre, Madserud, Vestre Aker, near Christiania, Norway. Rotary piston-pump. No. 1,152,453; Sept. 7; Gaz. vol. 218; p. 25.
- Thunemann, Albin J., Defiance, Ohio. Knockdown coop or crate. No. 1,129,759; Feb. 23; Gaz. vol. 211; p. 1204.
- Thurber, Guy P., assignor, by mesne assignments, to Automatic Train Control & Signal Company, Pittsburgh, Pa. Train-control system. No. 1,137,811; May 4; Gaz. vol. 214; p. 31.
- Thurber, Guy P., assignor, by mesne assignments, to Automatic Train Control & Signal Company, Pittsburgh, Pa. Magnet-valve. No. 1,142,382; June 8; Gaz. vol. 215; p. 493.
- Thurber, Guy P., assignor, by mesne assignments, to Automatic Train Control & Signal Company, Pittsburgh, Pa. Automatic brake-valve. No. 1,142,383; June 8; Gaz. vol. 215; p. 493.
- Thurber, Guy P., assignor, by mesne assignments, to Automatic Train Control & Signal Company, Pittsburgh, Pa. System of train control. No. 1,162,890; Dec. 7; Gaz. vol. 221; p. 54.
- Thurman, George W., assignor of forty-eight one-hundredths to B. H. Good, Cache, Okla. Stove and range. No. 1,131,573; Mar. 9; Gaz. vol. 212; p. 633.
- Thurman, Robert B., Sparta, Tenn. Syringe. No. 1,164,430; Dec. 14; Gaz. vol. 221; p. 638.
- Thurman, William B. (See Soule, Arthur C., assignor.)
- Thurot, Jean L. T., assignor to Société des Carburateurs Thurot (Thurot, Meyer & Cie.), Paris, France. Carburer. No. 1,158,589; Nov. 2; Gaz. vol. 220; p. 64.
- Thursby, Ivan, *et al.* (See Loomis, Osmond E., assignor.)
- Thurstensen, Soren, assignor to Henry Vogt Machine Company, Louisville, Ky. Appliance for artificial refrigerating plants. No. 1,149,871; Aug. 10; Gaz. vol. 217; p. 598.
- Thurstensen, Soren, assignor to Henry Vogt Machine Company, Louisville, Ky. Boiler. No. 1,157,736; Oct. 26; Gaz. vol. 219; p. 961.
- Thurstensen, Soren, assignor to Henry Vogt Machine Co., Louisville, Ky. Water-tube boiler. No. 1,157,737; Oct. 26; Gaz. vol. 219; p. 962.
- Thurston, Fred W. (See Farnsworth, George W., assignor.)
- Thurston, Henry, Kingston, Ontario, Canada. Boiler-water-circulating device. No. 1,146,213; July 13; Gaz. vol. 216; p. 454.
- Thurston, Howard F., Newry, Me. Spring. No. 1,158,870; Nov. 2; Gaz. vol. 220; p. 162.
- Thwaites, Jane, Clacton-on-Sea, England. Hot-air bed-radiator. No. 1,129,141; Feb. 23; Gaz. vol. 211; p. 992.
- Thwaites, John H., Bedford, and J. T. Craven, Brixton, England. Refuse-destructor or other furnace. No. 1,135,961; Apr. 13; Gaz. vol. 213; p. 707.
- Thwing, Charles B. (See Faltermayer and Thwing.)
- Thwing Instrument Company. (See Faltermayer and Thwing, assignors.)
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,138,908; May 11; Gaz. vol. 214; p. 455.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Gear-cutting machine. No. 1,140,012; May 18; Gaz. vol. 214; p. 880.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,141,288; June 1; Gaz. vol. 215; p. 71.
- Tibbets, Raymond F., Milwaukee, assignor of one-half to E. Fiebrich, Racine, Wis. Relief-valve for pneumatic tires. No. 1,137,034; Apr. 27; Gaz. vol. 213; p. 1166.
- Tibbits, C. N., *et al.* (See Platner, David F., assignor.)
- Tibbits, George W., Los Angeles, Cal. Transmission mechanism. No. 1,134,981; Apr. 6; Gaz. vol. 213; p. 321.
- Tibbles, Judson R., Macedonia, and T. S. Kilgore, Silver City, Iowa. Gearing device and support therefor. No. 1,164,682; Dec. 21; Gaz. vol. 221; p. 767.
- Tice, Andrew J., assignor to The United Electric Company, Canton, Ohio. Suction cleaning-nozzle. No. 1,161,908; Nov. 30; Gaz. vol. 220; p. 1409.
- Tice, Percival S., Detroit, Mich. Carburer. No. 1,123,955; Jan. 5; Gaz. vol. 210; p. 257.
- Tice, William A., *et al.* (See Atkins, William, assignor.)
- Tichenor, Albert J., assignor of two-thirds to H. C. Otte, Beaufort, Mo. Cord-holder. No. 1,165,816; Dec. 28; Gaz. vol. 221; p. 1201.
- Tichenor, Lewis E., Detroit, Mich., assignor to Tichenor Spring Wheel Company, Saratoga, Wyo. Spring-wheel. No. 1,124,077; Jan. 5; Gaz. vol. 210; p. 299.

Alphabetical list of patentees—Continued.

- Tichenor Spring Wheel Company. (See Tichenor, Lewis E., assignor.)
- Ticknor, William D., Canton, Mass., assignor to Box Company of America, New York, N. Y. Egg-carrier. No. 1,155,972; Oct. 5; Gaz. vol. 219; p. 225.
- Tidd, John N., Carters Bridge, Va. Gate-operating attachment. No. 1,134,563; Apr. 6; Gaz. vol. 213; p. 176.
- Tideman, Henry, Menominee, Mich. Apparatus for enabling the blind to read. No. 1,149,547; Aug. 10; Gaz. vol. 217; p. 480.
- Tideman, Henry, Menominee, Mich. Motor attachment for bicycles. No. 1,165,467; Dec. 28; Gaz. vol. 221; p. 1079.
- Tideman, Sven. (See Sweet and Tideman.)
- Tidswell, William S., Lansing, Mich. Sprinkler. No. 1,139,086; May 11; Gaz. vol. 214; p. 519.
- Tidwell, King D., Haleyville, Ala. Anvil and swage. No. 1,160,467; Nov. 16; Gaz. vol. 220; p. 807.
- Tiedemann, Hans H. E. R., Detroit, Mich. Printing and cutting machine. No. 1,144,924; June 29; Gaz. vol. 215; p. 1466.
- Tiedemann, Henry. (See Mowitz, Albert C., assignor.)
- Tiedge, Arthur F., Baybridge, Ohio. Protector for pneumatic tires. No. 1,133,894; Mar. 30; Gaz. vol. 212; p. 1593.
- Tiedtke, Otto A., Pilger, Nebr. Wire-stretcher. No. 1,164,146; Dec. 14; Gaz. vol. 221; p. 540.
- Tiedtke, Richard, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Mixing-machine. No. 1,139,085; May 11; Gaz. vol. 214; p. 518.
- Tiefel, Charles G. (See Todd and Tiefel.)
- Tiefel, Charles G., and L. M. Todd, assignors to G. W. Todd & Company, Rochester, N. Y. Printing apparatus. (Reissue). No. 13,958; Aug. 3; Gaz. vol. 217; p. 241.
- Tiefenbacher, Thomas B., New York, N. Y. Tire-tread. No. 1,128,387; Feb. 16; Gaz. vol. 211; p. 692.
- Tiefenbacher, Thomas B., New York, N. Y. Tire-tread. No. 1,161,549; Nov. 23; Gaz. vol. 220; p. 1239.
- Tielkemeyer, Henry, St. Louis, Mo. Hot-water heater. No. 1,144,798; June 29; Gaz. vol. 215; p. 1425.
- Tieman, William C. (See Gambon, John M., assignor.)
- Tiemann, L. H., et al. (See Cowgill, Orph W., assignor.)
- Tiernan, Joseph J., Chicago, Ill. Puzzle. No. 1,144,799; June 29; Gaz. vol. 215; p. 1425.
- Tierney, Michael J., Pittsfield, Mass. Stand and lid-operating means for garbage-cans and other receptacles. No. 1,130,774; Mar. 9; Gaz. vol. 212; p. 359.
- Tiesse, August, Chicago, Ill. Labeling-machine. No. 1,135,635; Apr. 13; Gaz. vol. 213; p. 593.
- Tietig, Chester, Cincinnati, Ohio. Tamping device. No. 1,131,876; Mar. 16; Gaz. vol. 212; p. 777.
- Tiffany, Andrew L., Fullerton, Cal. Broom-holder. No. 1,162,891; Dec. 7; Gaz. vol. 221; p. 55.
- Tiffany, George S., Summit, N. J. Phonograph. No. 1,136,739; Apr. 20; Gaz. vol. 213; p. 1024.
- Tiffany, George S., Summit, N. J., assignor to Gray National Telautograph Company, New York, N. Y. Telautograph apparatus. No. 1,129,317; Feb. 23; Gaz. vol. 211; p. 1053.
- Tiffany, George S., Summit, N. J., assignor to Gray National Telautograph Company, New York, N. Y. Telautographic apparatus. No. 1,137,929; May 4; Gaz. vol. 214; p. 72.
- Tiffany, George S., Summit, N. J., assignor to Gray National Telautograph Company, New York, N. Y. Azimuth and other indicator. No. 1,156,113; Oct. 12; Gaz. vol. 219; p. 300.
- Tiffany, George S., Summit, N. J., assignor, by mesne assignments, to American Telegraph Company, Telegraphphone. No. 1,142,384; June 8; Gaz. vol. 215; p. 494.
- Tiffany, Harry J., and G. A. Young, Jackson, Mich. Automobile-curtain. No. 1,140,858; May 25; Gaz. vol. 214; p. 1211.
- Tifner, Harry P., Chicago, Ill. Resonator. No. 1,127,320; Feb. 2; Gaz. vol. 211; p. 229.
- Tigerman, William H. (See Smith, Josiah H., assignor.)
- Tighe, James F., Philadelphia, Pa. Drainboard for sinks. No. 1,149,478; Aug. 10; Gaz. vol. 217; p. 455.
- Tighe, John T. (See Conlon, Murphy, and Tighe.)
- Tijou, Lincoln, Corpus Christi, Tex. Combined soap-drainer and brush. No. 1,125,211; Jan. 19; Gaz. vol. 210; p. 787.
- Tikijan, Richard, Waterbury, Conn. Whistle. No. 1,154,672; Sept. 28; Gaz. vol. 218; p. 911.
- Tilden, Ellsworth, Asotin, Wash. Stump-burner. No. 1,160,012; Nov. 9; Gaz. vol. 220; p. 596.
- Tilden, James A., Boston, Mass. Hydraulic system. No. 1,144,446; June 29; Gaz. vol. 215; p. 1304.
- Tilden, James A., Boston, Mass. Meter system. No. 1,154,896; Sept. 28; Gaz. vol. 218; p. 984.
- Tilden, Josephine E., assignor of one-half to B. L. McMillan, Minneapolis, Minn. Game apparatus. No. 1,141,505; June 1; Gaz. vol. 215; p. 149.
- Tillery, David H. and T. H., Newark, N. J. Alarm-clock attachment. No. 1,159,622; Nov. 9; Gaz. vol. 220; p. 457.
- Tillery, Lynn B., Rocky Mount, N. C. Gage. No. 1,134,297; Apr. 6; Gaz. vol. 213; p. 78.
- Tillery, Thomas H. (See Tillery, David H. and T. H.)
- Tilley, Edwin F., Jr., Plainfield, N. J. Heat-treating furnace. No. 1,130,040; Mar. 2; Gaz. vol. 212; p. 69.
- Tillinghast, Wallace E., Worcester, Mass., assignor to Sure Seal Manufacturing Company. Vacuum-generating apparatus for steam-heating systems. No. 1,147,197; July 20; Gaz. vol. 216; p. 817.
- Tillotson, George S., Tiffin, Ohio. Table. No. 1,165,144; Dec. 21; Gaz. vol. 221; p. 930.
- Tillman, Carl C. (See Linville and Tillman.)
- Tillman, Ferdinand J., St. Louis, Mo. Type-writer calculating attachment. No. 1,154,551; Sept. 21; Gaz. vol. 218; p. 838.
- Tillman, John D., Richmond, Ind. Lawn-mower. No. 1,134,650; Apr. 6; Gaz. vol. 213; p. 207.
- Tillman, John W. (See Price and Tillman.)
- Tilly, Charles A., New York, N. Y. Coupling. No. 1,154,944; Sept. 28; Gaz. vol. 218; p. 1001.
- Tilman, Daniel O., and O. C. Scheibner, Parsons, Kans. Safety boiler attachment. No. 1,133,680; Mar. 30; Gaz. vol. 212; p. 1518.
- Tilt, Joseph E., Chicago, Ill. Last. No. 1,145,945; July 13; Gaz. vol. 216; p. 359.
- Tilt, Louis K. (See Fitz Gerald, Walter H., assignor.)
- Tilton, John W., Atlantic City, N. J. Curtain-fastener. No. 1,131,293; Mar. 9; Gaz. vol. 212; p. 538.
- Tilton, Walter M., Franklin, N. H. Dinner-pail heater. No. 1,123,956; Jan. 5; Gaz. vol. 210; p. 258.
- Timberlake, Daniel T., St. Louis, Mo. Clothes-line reel and stretcher. No. 1,138,810; May 11; Gaz. vol. 214; p. 421.
- Timbrell, Clayton C., et al. (See Timbrell, John H., assignor.)
- Timbrell, John H., Broadway, assignor of one-third to C. C. Timbrell, Rutherford, and one-third to A. J. Harding, Newark, N. J. Flying-machine. No. 1,145,526; July 6; Gaz. vol. 216; p. 192.
- Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
- Timken-Detroit Axle Company, The. (See Arnold, Edwin E., assignor.)
- Timken-Detroit Axle Company, The. (See Weaver, Robert B., assignor.)
- Timken Roller Bearing Company, The. (See Flaherty, John E., assignor.)
- Timken Roller Bearing Company, The. (See Vanderbeek, Herbert, assignor.)
- Timlin, George. (See Riley and Timlin.)
- Timm, Henry A., Caledonia, Mich. Automobile-jack. No. 1,156,945; Oct. 19; Gaz. vol. 219; p. 619.
- Timmerman, William T., New York, N. Y. Fastening device for packages. No. 1,156,565; Oct. 12; Gaz. vol. 219; p. 457.
- Timmins, Guy E. (See Rennett, Edward, assignor.)
- Timmons, Edwin S., Chicago, Ill. Airship. No. 1,144,570; June 29; Gaz. vol. 215; p. 1344.
- Timmons, William B., Trenton, Mo. Grocer's bin. No. 1,150,317; Aug. 17; Gaz. vol. 217; p. 819.
- Tin Decorating Company of Baltimore. (See Tuttle, Washington L., assignor.)
- Tindale Cabinet Company. (See Tindale, John L., assignor.)
- Tindale, John L., Flushing, assignor to Tindale Cabinet Company, New York, N. Y. Filing-cabinet. No. 1,141,089; May 25; Gaz. vol. 214; p. 1290.
- Tindall, Leroy P., Jesup, Ga. Footwear-clasp. No. 1,153,732; Sept. 14; Gaz. vol. 218; p. 523.
- Tingle, Claude, Belton, Tex. Tire-casing-repair tool. No. 1,148,552; Aug. 3; Gaz. vol. 217; p. 24.
- Tingle, William C., Washington, Mo. Moistening-machine. No. 1,154,552; Sept. 21; Gaz. vol. 218; p. 839.
- Tinius Olsen Testing Machine Company. (See Johnson, Nathan C., assignor.)
- Tinius Olsen Testing Machine Company. (See Norris, George L., assignor.)
- Tinius Olsen Testing Machine Company. (See Olsen, Tinius, assignor.)
- Tinius Olsen Testing Machine Company. (See Upton and Lewis, assignors.)
- Tinker, Elisha A., et al. (See Mumford, John, assignor.)
- Tinkham, Guy L., Paris, France, assignor to Tinkham Suspension Company. Pneumatic-cushioned frame suspension. No. 1,133,337; Mar. 30; Gaz. vol. 212; p. 1393.
- Tinkham Suspension Company. (See Tinkham, Guy L., assignor.)
- Tinnberg, Knut A. E. (See Hult and Tinnberg.)
- Tinslev, Joseph B., Kansas City, Kans. Turn-table. No. 1,136,563; Apr. 20; Gaz. vol. 213; p. 962.
- Tinsley, Joseph B., Kansas City, Kans. Display-cabinet. No. 1,138,913; May 11; Gaz. vol. 214; p. 456.
- Tinsley, Waller P., assignor of one-half to J. A. Wisherd, Fort Worth, Tex. Gas-generator. No. 1,130,861; Mar. 9; Gaz. vol. 212; p. 389.
- Tinsley, William, et al. (See Mosteller, Dosier H., assignor.)
- Tippet, Philip V., assignor to Farrel Foundry & Machine Co., Ansonia, Conn. Removable-nut construction for roll-adjusting devices and the like. No. 1,135,076; Apr. 13; Gaz. vol. 213; p. 399.
- Tippet, George, New York, N. Y. Means to stop leaks in pipes, &c. No. 1,146,670; July 13; Gaz. vol. 216; p. 613.
- Tippet, Richard B., et al. (See Brewington, Henry S., assignor.)

Alphabetical list of patentees—Continued.

- Tipple, James D., assignor to Cumberland Foundry and Manufacturing Company, Nashville, Tenn. Furnace fire-pot. No. 1,133,200; Mar. 23; Gaz. vol. 212; p. 1309.
- Tipton, Ralph W., Indianola, Iowa. Seed-grader. No. 1,125,603; Jan. 19; Gaz. vol. 210; p. 926.
- Tirrill, Allen A., Schenectady, N. Y. Electric switch. No. 1,142,859; June 15; Gaz. vol. 215; p. 696.
- Tirrill, Allen A., Schenectady, N. Y. Electric switch. No. 1,161,361; Nov. 23; Gaz. vol. 220; p. 1174.
- Tirrill, Allen A., Pittsburgh, Pa. Electrical switch. No. 1,158,749; Nov. 2; Gaz. vol. 220; p. 118.
- Tirrill, Allen A., Athens, Pa. Electric switch. No. 1,161,362; Nov. 23; Gaz. vol. 220; p. 1174.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator. No. 1,147,569; July 20; Gaz. vol. 216; p. 947.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,147,570; July 20; Gaz. vol. 216; p. 948.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,147,571; July 20; Gaz. vol. 216; p. 948.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,147,572; July 20; Gaz. vol. 216; p. 949.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,147,573; July 20; Gaz. vol. 216; p. 949.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,147,574; July 20; Gaz. vol. 216; p. 949.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,147,575; July 20; Gaz. vol. 216; p. 950.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,147,576; July 20; Gaz. vol. 216; p. 950.
- Tirrill, Jacob P., St. Louis, Mo. Paper container for wool. No. 1,160,961; Nov. 16; Gaz. vol. 220; p. 985.
- Tischler, Alexander, Chicago, Ill. Adjustable support. No. 1,155,383; Oct. 5; Gaz. vol. 219; p. 20.
- Tischler, John, assignor of one-half to V. Pivarnik, East Portchester, Conn. Carpenter's plane. No. 1,123,957; Jan. 5; Gaz. vol. 210; p. 258.
- Tissue, Wilbert G., Meyersdale, Pa. Collapsible barrel. No. 1,150,080; Aug. 17; Gaz. vol. 217; p. 734.
- Titania Schreibmaschinen Ges. M. B. H. (See Steiner, Adolf, assignor.)
- Titanium Alloy Manufacturing Company, The. (See Barton, Louis E., assignor.)
- Titanium Alloy Manufacturing Company, The. (See Vickers, Charles, assignor.)
- Titcomb, George E., Philadelphia, Pa., assignor, by mesne assignments, to Link-Belt Company, Chicago, Ill. Charging railway system. No. 1,140,214; May 18; Gaz. vol. 214; p. 951.
- Tite, Charles E. (See Mehm and Tite.)
- Titterton, Harold L., Chester, Pa. Undergarment. No. 1,157,063; Oct. 19; Gaz. vol. 219; p. 662.
- Titus, Albert S., F. P. Weible, and S. E. Johnson, Port Allegany, Pa. Glass-mold. No. 1,161,998; Nov. 30; Gaz. vol. 220; p. 1440.
- Titus, Willis E., Hanover, Mich. Fly-killer. No. 1,143,738; June 22; Gaz. vol. 215; p. 1027.
- Tivendale, William, Clydebank, Scotland, assignor to The Singer Manufacturing Company. Machine for straightening light bars, needles, and the like. No. 1,164,683; Dec. 21; Gaz. vol. 221; p. 768.
- Tizley, Arthur J., assignor to Edward F. Caldwell & Co., Inc., New York, N. Y. Electric switch. No. 1,162,665; Nov. 30; Gaz. vol. 220; p. 1667.
- Tjader, Richard, New York, N. Y. Releasing apparatus for life-boats. No. 1,159,293; Nov. 2; Gaz. vol. 220; p. 307.
- Tkach, George, Hastings-upon-Hudson, New York. Knife-sharpener. No. 1,130,352; Mar. 2; Gaz. vol. 212; p. 177.
- Tohey, V. A., et al. (See Johnson, Orion E., assignor.)
- Tobiesen, Emanuel, Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Electrical controlling system. No. 1,164,035; Dec. 14; Gaz. vol. 221; p. 501.
- Tobin, Charles R., Cleveland, Ohio. Locking-valve. No. 1,159,880; Nov. 9; Gaz. vol. 220; p. 550.
- Tobin, Edward C., Stockton, Cal. Calk attachment for horseshoes. No. 1,140,419; May 25; Gaz. vol. 214; p. 1057.
- Tobin, John J., assignor to Tobin Manufacturing Company, Chicago, Ill. Coaster-brake. No. 1,157,064; Oct. 19; Gaz. vol. 219; p. 665.
- Tobin, Joseph H., De Ruyter, assignor to Messenger Screw Co., Inc., Lincklaen, N. Y. Screw-driver. No. 1,157,969; Oct. 26; Gaz. vol. 219; p. 1043.
- Tobin Manufacturing Company. (See Tobin, John J., assignor.)
- Tobin, Patrick H., Denison, Tex. Reicing cars. No. 1,140,215; May 18; Gaz. vol. 214; p. 951.
- Tobin, Thomas. (See Fruin and Tobin.)
- Tobin, Thomas J., Albany, N. Y., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric safety device. No. 1,159,294; Nov. 2; Gaz. vol. 220; p. 308.
- Tobriner, Marion L., San Francisco, Cal. Liquid-dispenser. No. 1,145,221; July 6; Gaz. vol. 216; p. 85.
- Toca, Albert, New Orleans, La. Frozen confection and making the same. No. 1,134,777; Apr. 6; Gaz. vol. 213; p. 254.
- Todd & Company, G. W. (See Todd and Tiefel, assignors.)
- Todd, Edmund N., Millburn, N. J. Producing transparent coatings. No. 1,143,464; June 15; Gaz. vol. 215; p. 910.
- Todd, Edwin S., and B. T. Noble, Milldale, assignors to George P. Clark Company, Windsor Locks, Conn. Elevating transfer-truck. No. 1,136,906; Apr. 20; Gaz. vol. 213; p. 1083.
- Todd, Elbert N., Crisfield, Md. Envelop. No. 1,123,424; Jan. 5; Gaz. vol. 210; p. 78.
- Todd, Floyd R., Moline, assignor to Marseilles Company, East Moline, Ill. Manure-spreader. No. 1,128,734; Feb. 16; Gaz. vol. 211; p. 811.
- Todd, George W., and C. D. Mendlik, Omaha, Nebr.; said Mendlik assignor to G. Todd. Dental bridge. No. 1,136,184; Apr. 20; Gaz. vol. 213; p. 825.
- Todd, Harold B., Philadelphia, Pa. Piano fall-board. No. 1,139,926; May 18; Gaz. vol. 214; p. 849.
- Todd, Harold B., Philadelphia, Pa. Control-lever mounting for player-actions. No. 1,139,927; May 18; Gaz. vol. 214; p. 849.
- Todd, Harold B., Philadelphia, Pa. Duplex continuous hinge. No. 1,157,065; Oct. 19; Gaz. vol. 219; p. 663.
- Todd, Libanus M. (See Tiefel and Todd.) (Reissue.)
- Todd, Libanus M., and C. G. Tiefel, assignors to G. W. Todd & Company, Rochester, N. Y. Check-writer. No. 1,138,330; May 4; Gaz. vol. 214; p. 215.
- Todd, Libanus M., and C. G. Tiefel, assignors to G. W. Todd & Company, Rochester, N. Y. Protecting commercial paper. No. 1,144,742; June 29; Gaz. vol. 215; p. 1405.
- Todd, Libanus M., and C. G. Tiefel, assignors to G. W. Todd & Co., Rochester, N. Y. Protecting commercial paper. No. 1,145,447; July 6; Gaz. vol. 216; p. 165.
- Todd, Louis M., New Rochelle, N. Y. Box and box-blank. No. 1,152,240; Aug. 31; Gaz. vol. 217; p. 1584.
- Todd, Marquis J., assignor to Buffalo Pitts Company, Buffalo, N. Y. Vehicle-coupling. No. 1,136,564; Apr. 20; Gaz. vol. 213; p. 962.
- Todd, Ora M., Toppenish, Wash. Circuit-closer for electric clocks. No. 1,162,263; Nov. 30; Gaz. vol. 220; p. 1534.
- Todd, Robert H., Philadelphia, Pa. Railway-signal. No. 1,160,013; Nov. 9; Gaz. vol. 220; p. 596.
- Todd, Samuel G., Ipswich, Mass. Folding frame for portable machines. No. 1,123,425; Jan. 5; Gaz. vol. 210; p. 78.
- Todd, Samuel J., and A. M. Humber, Highland Park, Mich. Milling-machine. No. 1,138,515; May 4; Gaz. vol. 214; p. 278.
- Todd, Edward G., Chicago, Ill. Foundry molding-machine. No. 1,126,916; Feb. 2; Gaz. vol. 211; p. 88.
- Toecke, Karl L., Chicago, Ill. Safety ring-holder. No. 1,141,992; June 8; Gaz. vol. 215; p. 354.
- Toelle, William E., Elmhurst, N. Y. Clothes-line support. No. 1,150,646; Aug. 17; Gaz. vol. 217; p. 934.
- Toeffer, Charles, Milwaukee, Wis. Automatic line-winding attachment for reels. No. 1,154,220; Sept. 21; Gaz. vol. 218; p. 725.
- Toeffer, Peter G., Milwaukee, Wis. Hydrating lime. No. 1,146,372; July 13; Gaz. vol. 216; p. 508.
- Toeplitz, Richard, assignor to The A. & F. Brown Company, Elizabeth, N. J. Journal-box lubricant device. No. 1,164,890; Dec. 21; Gaz. vol. 221; p. 839.
- Toepper, Herman W., Des Plaines, Ill. Ankle-support. No. 1,126,590; Jan. 26; Gaz. vol. 210; p. 1317.
- Toffelmier, Lance J. (See Miller and Toffelmier.)
- Toffey, Ira J. H., Waterbury, Conn. Wire finding and coupling device. No. 1,130,775; Mar. 9; Gaz. vol. 212; p. 360.
- Tognini, Achilles B., Cayucos, Cal. Transmission-gearing. No. 1,127,945; Feb. 9; Gaz. vol. 211; p. 491.
- Tokaji, Paul, Ethel, W. Va. Fruit-gatherer. No. 1,159,810; Nov. 9; Gaz. vol. 220; p. 525.
- Tokheim Mfg. Co., The. (See Fuhrman, Herman C., assignor.)
- Toland, James J., Clifton Heights, Pa. Fender. No. 1,150,557; Aug. 17; Gaz. vol. 217; p. 903.
- Tole, Charles. (See McLaughlin, William H., assignor.)
- Toledo Auto Tool Company, The. (See Rakertraw, Lawrence M., assignor.)
- Toledo Computing Scale Company. (See Bancroft, James E., assignor.)
- Toledo Electric Welder Company, The. (See Muir, James A., assignor.)
- Toledo Folding High Chair Company. (See Wolfert, Carlos, assignor.)
- Toledo Glass Company. (See Colburn, Irving W., assignor.)

- Toledo Glass Company, The. (See Dayton, Carl S., assignor.)
- Toledo Parlor Furniture Company, The. (See Kloppling, Adolph C., assignor.)
- Toledo Pipe Threading Machine Company, The. (See Vosper, William W., assignor.)
- Toledo Scale Company. (See Bergen, Harry S., assignor.)
- Toledo Scale Company. (See Haggood, Clarence H., assignor.)
- Toledo Scale Company. (See Wear, Frank F., assignor.)
- Toledo Steel Barrel Company, The. (See Wacker, Frederick G., assignor.)
- Toles, Justin K., San Francisco, Cal., assignor to W. R. Brown, Detroit, Mich. Drying apparatus. No. 1,124,186; Jan. 5; Gaz. vol. 210; p. 336.
- Toles, Justin K., San Francisco, Cal., assignor to W. R. Brown, Detroit, Mich. Method and apparatus for retting fibrous materials. No. 1,133,590; Mar. 30; Gaz. vol. 212; p. 1483.
- Tollhurst Machine Works. (See Bryson, Tandy A., assignor.)
- Tollin, Albert E., Anderson, Ind., assignor to Excello Manufacturing Company, Chicago, Ill. Pneumatic cleaning apparatus. No. 1,123,426; Jan. 5; Gaz. vol. 210; p. 79.
- Tollin, Albert E., Anderson, Ind., assignor to Excello Manufacturing Company, Chicago, Ill. Tank apparatus for pneumatic cleaners. No. 1,165,040; Dec. 21; Gaz. vol. 221; p. 891.
- Tolle, Heinrich, assignor to Siemens-Schuckertwerke G. m. b. H., Berlin, Germany. Electrical meter. No. 1,155,384; Oct. 5; Gaz. vol. 219; p. 20.
- Tollefson, Gilbert, Bagley, Minn. Conveying, sorting, and screening system. No. 1,159,134; Nov. 2; Gaz. vol. 220; p. 250.
- Tolles, Charles L., Eau Claire, Wis. Traction-belt. No. 1,135,559; Apr. 13; Gaz. vol. 213; p. 566.
- Tolles, Charles L., Eau Claire, Wis. Tractor-belt. No. 1,135,560; Apr. 13; Gaz. vol. 213; p. 566.
- Tolles, Charles L., Eau Claire, Wis. Traction-belt. No. 1,146,537; July 13; Gaz. vol. 216; p. 569.
- Tolman, Charles P., assignor to National Lead Company, New York, N. Y. Strip-solder. No. 1,162,823; Dec. 7; Gaz. vol. 221; p. 33.
- Tolman, Edgar B., Jr., Chicago, Ill. Auxiliary change-speed device. No. 1,166,020; Dec. 28; Gaz. vol. 221; p. 1272.
- Tolman, James P., Newton, assignor to Samson Cordage Works, Boston, Mass. Twine-package. No. 1,135,470; Apr. 13; Gaz. vol. 213; p. 534.
- Tolman, Scott H., Boston, Mass. Welding-torch. No. 1,141,669; June 1; Gaz. vol. 215; p. 207.
- Tolman, Scott H., Boston, Mass. Aeroplane. No. 1,164,684; Dec. 21; Gaz. vol. 221; p. 768.
- Tolman, Scott H., Boston, Mass. Aeroplane. No. 1,164,891; Dec. 21; Gaz. vol. 221; p. 768.
- Tolputt, Herbert, Sheffield, England. Forming metal blanks or the like for cutlery articles, tools, and other instruments or purposes. No. 1,135,863; Apr. 13; Gaz. vol. 213; p. 673.
- Tomasini, Thomas I. A., San Francisco, Cal. Internal-combustion engine. No. 1,128,917; Feb. 16; Gaz. vol. 211; p. 878.
- Tomaso, Salvatore D., assignor of one-half to R. E. Hulsmann, Chicago, Ill. Burglar-alarm system. No. 1,157,601; Oct. 19; Gaz. vol. 219; p. 848.
- Tomassi, Joseph, Chicago, Ill. Folding stool. No. 1,135,864; Apr. 13; Gaz. vol. 213; p. 674.
- Tomassi, Joseph, and Z. Lobodzinski, Chicago, Ill. Foldable cot. No. 1,130,122; Mar. 2; Gaz. vol. 212; p. 97.
- Tomaszewski, John, *et al.* (See Tomaszewski, Joseph C., assignor.)
- Tomaszewski, Joseph C., assignor of one-fourth to J. Tomaszewski and one-fourth to A. Franczek, Chicago, Ill. Combined club and firearm. No. 1,160,343; Nov. 16; Gaz. vol. 220; p. 764.
- Tombaugh, Noble N. (See Kercher and Tombaugh.)
- Tomek, John, Trenton, N. J. Making linoleum. No. 1,161,754; Nov. 23; Gaz. vol. 220; p. 1308.
- Tomlin, Francis H., Haddonfield, N. J. Megaphone. No. 1,158,871; Nov. 2; Gaz. vol. 220; p. 162.
- Tomlin, George V., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Brake-beam fulcrum. No. 1,145,527; July 6; Gaz. vol. 216; p. 193.
- Tomlin, James, assignor of one-half to R. T. Morgan, Moro, Oreg. Weed remover. No. 1,152,574; Sept. 7; Gaz. vol. 218; p. 72.
- Tomlinson, Arthur. (See Pilblad and Tomlinson.)
- Tomlinson, Charles H., *et al.* (See Anderson, Swan, assignor.)
- Tomlinson, G. Ashley. (See Benson, Melvin B., assignor.)
- Tomlinson, John, *et al.* (See Anderson, Swan, assignor.)
- Tomlinson, John K., Pickaway, assignor of one-third to R. M. Bell, Lewisburg, and one-tenth to J. J. Townley, Ronceverte, W. Va. Auto tire-protector. No. 1,131,094; Mar. 9; Gaz. vol. 212; p. 469.
- Tomlinson, Joseph, Chicago, Ill. Printing-plate. No. 1,151,500; Aug. 24; Gaz. vol. 217; p. 1282.
- Tomlinson, Joseph, Chicago, Ill. Printing-plate. No. 1,151,501; Aug. 24; Gaz. vol. 217; p. 1282.
- Tomlinson, Joseph, New York, N. Y., assignor to Cox Multi-Mailer Company, Augusta, Me. Wrapping-machine. No. 1,135,077; Apr. 13; Gaz. vol. 213; p. 399.
- Tomlinson, Joseph, Chicago, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me. Feeding device. No. 1,159,623; Nov. 9; Gaz. vol. 220; p. 457.
- Tomlinson, Walter H., Chicago, Ill. Cooking or treating food. No. 1,152,241; Aug. 31; Gaz. vol. 217; p. 1584.
- Tompkins, Charles D., Vermillion, Kans. Vehicle-raiser. No. 1,146,671; July 13; Gaz. vol. 216; p. 614.
- Tompkins, Eugene, Addison, N. Y. Nailing-machine. No. 1,135,335; Apr. 13; Gaz. vol. 213; p. 487.
- Tompkins, F. Blanchi. (See Gallagher, Richard W., assignor.)
- Tompkins-Hawley-Fuller Company. (See Fuller, Frederick H., assignor.)
- Tompkins-Hawley-Fuller Company. (See Tompkins and Fuller, assignors.)
- Tompkins, John D., Valatie, and F. H. Fuller, Potsdam, assignors to Tompkins-Hawley-Fuller Company, Valatie, N. Y. Crimped paper. No. 1,143,333; June 15; Gaz. vol. 215; p. 864.
- Tompkins, Richard E., Danbury, Conn. Caster. No. 1,135,226; Apr. 13; Gaz. vol. 213; p. 449.
- Tompkins, W. F. Blanchi. (See Kimmell, Herbert L., assignor.)
- Tomsky, Victor A., New York, N. Y. Sanitary sugar-bowl. No. 1,157,910; Oct. 26; Gaz. vol. 219; p. 1022.
- Toney, Joseph, assignor of one-half to M. Bennett and A. Murie, Salt Lake City, Utah. Freight-car door. No. 1,131,807; Mar. 16; Gaz. vol. 212; p. 754.
- Tonks, William H., Pasadena, assignor of one-half to M. S. Morse, Oakland, Cal. Timepiece. No. 1,137,245; Apr. 27; Gaz. vol. 213; p. 1243.
- Tonn, Hermann, Chicago, Ill. Metal belt-lacing. No. 1,151,979; Aug. 31; Gaz. vol. 217; p. 1494.
- Tonnesen, Otto S., Johannesburg, Transvaal, South Africa. Means for mounting rock-drills. No. 1,160,672; Nov. 16; Gaz. vol. 220; p. 884.
- Tooker, Harry L. (See Tooker, Hugh R. and H. L.)
- Tooker, Hugh R. and H. L., Santa Maria, Cal. Pen or pencil holder. No. 1,147,198; July 20; Gaz. vol. 216; p. 818.
- Tooker, Hugh R. and H. L., Santa Maria, Cal. Pen or pencil clip or holder. No. 1,147,199; July 20; Gaz. vol. 216; p. 819.
- Tooker, Hugh R. and H. L., Santa Maria, Cal. Pen or pencil holder or clip. No. 1,147,200; July 20; Gaz. vol. 216; p. 819.
- Toolan, John J., Chicago, Ill. Impression-registering device for type-writers. No. 1,143,665; June 22; Gaz. vol. 215; p. 1003.
- Tooley, Charles, Omaha, Nebr. Collar-fastener. No. 1,148,204; July 27; Gaz. vol. 216; p. 1199.
- Tooley, John A., Shreveport, La. Bird-trap. No. 1,155,017; Sept. 28; Gaz. vol. 218; p. 1026.
- Toomey, Alfred E., Edmore, N. D. Grease-cup. No. 1,160,014; Nov. 9; Gaz. vol. 220; p. 596.
- Toomy, Edmund F., and W. J. Lavery, Jersey City, N. J. Name-plate for mail-boxes. No. 1,146,907; July 20; Gaz. vol. 216; p. 715.
- Toon, Clifford, Sr., Christchurch, New Zealand. Means for use in calking lead joints in iron pipes and mains. No. 1,165,041; Dec. 21; Gaz. vol. 221; p. 892.
- Topf, Ludwig, Erfurt, Germany. Germinating-drum. No. 1,127,547; Feb. 9; Gaz. vol. 211; p. 349.
- Topf, Ludwig, Erfurt, Germany. Drum for the working of any kind of grain. No. 1,138,331; May 4; Gaz. vol. 214; p. 215.
- Topf & Soehne, J. A. (See Bornmann, Ernst, assignor.)
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lock-stitch sewing-machine. No. 1,124,187; Jan. 5; Gaz. vol. 210; p. 337.
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shuttle. No. 1,131,095; Mar. 9; Gaz. vol. 212; p. 469.
- Topham, Laurence E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,129,760; Feb. 23; Gaz. vol. 211; p. 1204.
- Topham, Laurence E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,165,817; Dec. 28; Gaz. vol. 221; p. 1202.
- Topham, Richard, Washington, D. C. Combined shoe-horn and button-hook. No. 1,150,403; Aug. 17; Gaz. vol. 217; p. 849.
- Topley, William H., assignor of one-half to J. W. Smith, Philadelphia, Pa. Smoke and gas consumer. No. 1,140,544; May 25; Gaz. vol. 214; p. 1103.
- Toppliff, Willis J., assignor of one-half to C. C. Moore, Unadilla, N. Y. Silo. No. 1,151,421; Aug. 24; Gaz. vol. 217; p. 1254.
- Topping Brothers. (See Crabb, Charles L., assignor.)
- Topping, John A., Chicago, Ill. Preformed roadway-block. No. 1,150,558; Aug. 17; Gaz. vol. 217; p. 904.
- Topping, W. V. B. (See Plice, Thomas V., assignor.)
- Torazzi, Mario F., Ipswich, Queensland, Australia. Winch mechanism. No. 1,131,574; Mar. 9; Gaz. vol. 212; p. 633.
- Torchiani, Harry, Chicago, Ill. Barrel-pitching machine. No. 1,126,130; Jan. 26; Gaz. vol. 210; p. 1149.

Alphabetical list of patentees—Continued.

- Torchio, Philip, New York, N. Y. Reactor. No. 1,157,066; Oct. 19; Gaz. vol. 219; p. 663.
- Torchio, Philip, and H. R. Woodrow, New York, N. Y. Protective device for bus-bar circuits. No. 1,133,338; Mar. 30; Gaz. vol. 212; p. 1393.
- Torchio, Philip, and H. R. Woodrow, assignors to T. E. Murray, New York, N. Y. Protective device for bus-bar circuits. No. 1,149,603; Aug. 10; Gaz. vol. 217; p. 500.
- Torlina, John H. E., and E. E. Wolf, Springfield, Ohio; said Wolf assignor to said Torlina. Delivery mechanism for printing-presses. No. 1,134,298; Apr. 6; Gaz. vol. 213; p. 79.
- Tormey, John E. (See Riddle, Lawrence J., assignor.)
- Tornio, Gustaf E., St. Paul, Minn. Weighing-scale. No. 1,163,047; Dec. 7; Gaz. vol. 221; p. 109.
- Török, Charles, et al. (See Ambrozky, Eugene, assignor.)
- Torok, Lajos, et al. (See Ruzgarszky, István, assignor.)
- Torony, Johan, Borderland, W. Va. Bird-trap. No. 1,158,012; Oct. 26; Gaz. vol. 219; p. 1057.
- Torrance, Charles E. (See Senna, Samuel N., assignor.)
- Torrance, Charles E., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Paper machine. No. 1,161,806; Nov. 23; Gaz. vol. 220; p. 1327.
- Torrance, Hugh N. (See Torrance, Thomas, J. R., and H. N.)
- Torrance, John R. (See Torrance, Thomas, J. R., and H. N.)
- Torrance, Thomas, J. R., and H. N., Britton, England. Paint-mill or mill to take a fluid. No. 1,129,142; Feb. 23; Gaz. vol. 211; p. 992.
- Torresson, Thomas S., New York, N. Y. Electric door-latch. No. 1,139,087; May 11; Gaz. vol. 214; p. 519.
- Torrey, Allen M., Ashland, N. J., assignor to Helme & McIlhenny, Philadelphia, Pa. Prepayment-meter mechanism. No. 1,124,975; Jan. 12; Gaz. vol. 210; p. 667.
- Torrey, Edward, Theford Mines, Quebec, Canada. Ore-separator. No. 1,155,292; Sept. 28; Gaz. vol. 218; p. 1118.
- Torrey, Francis B., Richmond, Me. Mold. No. 1,124,237; Jan. 5; Gaz. vol. 210; p. 355.
- Torris Wold & Co. (See Sim, William, assignor.)
- Torsion Balance Company, The. (See Michalis and Münzner, assignors.)
- Torsion Balance Company, The. (See Münzner, Max, assignor.)
- Torson, Thomas M., Kansas City, Kans. Automobile-wheel pulley attachment. No. 1,142,737; June 8; Gaz. vol. 215; p. 612.
- Torson, Thomas M., Kansas City, Kans. Windlass. No. 1,142,738; June 8; Gaz. vol. 215; p. 613.
- Tosta, Jovo, Lowell, Mass. Toy. No. 1,141,434; June 1; Gaz. vol. 215; p. 125.
- Toth, John B., Chicago, Ill. Combined pattern-drafting device. No. 1,157,345; Oct. 19; Gaz. vol. 219; p. 762.
- Toth, John B., assignor of one-half to J. Itadu, Chicago, Ill. Window-screen. No. 1,160,789; Nov. 16; Gaz. vol. 220; p. 923.
- Toth, Joseph. (See Szentivanyi, Joseph, assignor.)
- Tothill, William S., Chicago, Ill. Merry-go-round. No. 1,130,217; Mar. 2; Gaz. vol. 212; p. 131.
- Tothill, William S., Chicago, Ill. Amusement device. No. 1,142,996; June 15; Gaz. vol. 215; p. 746.
- Totten, Cleophas, Dennison, Ohio. Bag-lock. No. 1,137,035; Apr. 27; Gaz. vol. 213; p. 1166.
- Touart, Maximin D., New York, N. Y. Surgical splint. No. 1,131,295; Mar. 9; Gaz. vol. 212; p. 538.
- Tough, George C., Munger, Mich. Harvester. No. 1,127,829; Feb. 9; Gaz. vol. 211; p. 450.
- Toupal, Frank L., Chicago Heights, Ill. Envelop. No. 1,163,381; Dec. 7; Gaz. vol. 221; p. 226.
- Toupal, Frank L., Chicago Heights, Ill. Ladder attachment. No. 1,163,382; Dec. 7; Gaz. vol. 221; p. 226.
- Tournadre, Jules, San Francisco, Cal. Container and dispenser. No. 1,154,351; Sept. 21; Gaz. vol. 218; p. 772.
- Tourtell, John M., and V. C. Doubleday, London, England. Machine for piercing the sound-paper of piano-players. No. 1,124,976; Jan. 12; Gaz. vol. 210; p. 668.
- Tourtellott, Henry B., Quincy, Mass., assignor to American Can Company, New York, N. Y. Cigar-display humidor. No. 1,129,921; Mar. 2; Gaz. vol. 212; p. 31.
- Tousley, Nelson E., Watertown, and C. H. Roper, Belmont, Mass., assignors to Hood Rubber Co. Tennis-shoe. (Re-issue.) No. 13,993; Oct. 12; Gaz. vol. 219; p. 566.
- Toussaint, Auguste J., Paris, France. Gas-feeding device for cooking-stoves. No. 1,133,071; Mar. 23; Gaz. vol. 212; p. 1262.
- Tower, Clinton A., assignor to The National Malleable Castings Company, Cleveland, Ohio. Friction draft-rigging. No. 1,154,967; Sept. 28; Gaz. vol. 218; p. 1009.
- Tower, Daniel W., Grand Rapids, Mich. Bolt-operating mechanism. No. 1,136,498; Apr. 20; Gaz. vol. 213; p. 939.
- Tower, Edwin B. H., Jr., Milwaukee, Wis., assignor, by mesne assignments, to The United States Light and Heating Company. Automatic electric regulator. No. 1,154,945; Sept. 28; Gaz. vol. 218; p. 1001.
- Tower, George W., assignor of one-half to W. R. Beaty, Marshallfield, Mo. Evaporator. No. 1,133,762; Mar. 30; Gaz. vol. 212; p. 1545.
- Tower, Walter S., and P. D. Camphuis, Wallace, Idaho. Jig. No. 1,159,295; Nov. 2; Gaz. vol. 220; p. 308.
- Towers, William, assignor of forty-five one-hundredths to R. Lockridge, Christopher, Ill. Mine-car coupling. No. 1,150,980; Aug. 24; Gaz. vol. 217; p. 1106.
- Towle, Frank B., Worcester, Mass. Feed-rack. No. 1,129,761; Feb. 23; Gaz. vol. 211; p. 1205.
- Towler, Mary E., Hubbard, Tex. Pin-fastener. No. 1,155,691; Oct. 5; Gaz. vol. 219; p. 128.
- Towler, Vance, et al. (See Beery, John H., assignor.)
- Town, D. E. (See Anderson, Olof, assignor.)
- Town, Frank G., Philadelphia, Pa. Crutch and furniture tip. No. 1,133,514; Mar. 30; Gaz. vol. 212; p. 1456.
- Town, Hazel E., Libby, Mont. Skirt-marker. No. 1,153,733; Sept. 14; Gaz. vol. 218; p. 523.
- Town, Thomas A., Washburn, Wash. Weeding-machine. No. 1,126,917; Feb. 2; Gaz. vol. 211; p. 88.
- Towne, Allen D., Kirksville, Mo. Fusible safety-plug for boilers. No. 1,150,647; Aug. 17; Gaz. vol. 217; p. 934.
- Towne, Amos A., Long Beach, Cal. Electrical liquid-purifier. No. 1,147,989; July 27; Gaz. vol. 216; p. 1122.
- Towne, Archie C., et al. (See Bailey, Arion D., assignor.)
- Towne, George S., Oakland, Cal. Piston-packing. No. 1,155,018; Sept. 28; Gaz. vol. 218; p. 1026.
- Towne, Harold A., Waterloo, Wis. Paper-hand-out device. No. 1,137,098; Apr. 27; Gaz. vol. 213; p. 1189.
- Towne, Joseph M., East Orange, N. J. Open spring-clip for temporary binders. No. 1,125,412; Jan. 19; Gaz. vol. 210; p. 860.
- Towne, Joseph M., East Orange, N. J. Lock-lever clip for temporary binders. No. 1,130,942; Mar. 9; Gaz. vol. 212; p. 417.
- Towne, Joseph M., East Orange, N. J. Temporary binder. No. 1,144,447; June 29; Gaz. vol. 215; p. 1304.
- Towne, Joseph M., East Orange, N. J. Temporary binder. No. 1,144,448; June 29; Gaz. vol. 215; p. 1305.
- Towne, Robert S., New York, and C. Robinson, Mount Vernon, N. Y., assignors to Metallurgical Engineering & Process Corporation. Extracting metals from ores. No. 1,156,382; Oct. 12; Gaz. vol. 219; p. 392.
- Towne, Robert S., New York, and C. Robinson, Mount Vernon, N. Y., assignors to Metallurgical Engineering & Process Corporation. Precipitating and separating metals from solution. No. 1,156,383; Oct. 12; Gaz. vol. 219; p. 393.
- Towner, Leroy H., Muskogee, Okla. Culvert-form. No. 1,134,778; Apr. 6; Gaz. vol. 213; p. 254.
- Townley, J. J., et al. (See Tomlinson, John K., assignor.)
- Townsend, Charles O. (See Gore, Herbert C., assignor.)
- Towusend, Charles R., and R. C. Turner, Birmingham, England. Endless-band grinding and polishing machine. No. 1,149,479; Aug. 10; Gaz. vol. 217; p. 456.
- Townsend, Claude B., et al. (See Meyers, Jacob E., assignors.)
- Townsend, Clinton P., Washington, D. C. Protective coating and applying same. No. 1,146,214; July 13; Gaz. vol. 216; p. 454.
- Townsend, David. (See Cornell and Townsend.)
- Townsend, David. (See Melas, William, assignor.)
- Townsend, E. C. (See Pangerl, Paul, assignor.)
- Townsend, Ella D. (See Maxson, Levy S., assignor.)
- Townsend, Ervin D., Cherry Creek, N. Y. Whiffletree. No. 1,159,811; Nov. 9; Gaz. vol. 220; p. 525.
- Townsend, Fitzhugh. (See Young and Townsend.)
- Townsend, Fitzhugh, New York, N. Y., assignor to General Railway Signal Company. System of automatic block-signaling for electric railways. No. 1,129,143; Feb. 23; Gaz. vol. 211; p. 993.
- Townsend, Fitzhugh, New York, N. Y., assignor to General Railway Signal Company. System of automatic block-signaling. No. 1,130,353; Mar. 2; Gaz. vol. 212; p. 177.
- Townsend, Fitzhugh, deceased; J. J. Townsend, administrator, New York, N. Y., assignor to General Railway Signal Company. System of automatic signaling for electric railways. No. 1,159,730; Nov. 9; Gaz. vol. 220; p. 495.
- Townsend, Frank B., assignor of one-half to J. E. McMath, Penn Yan, N. Y. Wire handle and cover-fastener for grape-baskets, &c. No. 1,125,212; Jan. 19; Gaz. vol. 210; p. 787.
- Townsend, Frank B., assignor of one-half to J. E. McMath, Penn Yan, N. Y. Handle-attaching machine for baskets and analogous receptacles. No. 1,133,201; Mar. 23; Gaz. vol. 212; p. 1309.
- Townsend, Frank B., assignor of one-half to J. E. McMath, Penn Yan, N. Y. Handle-attaching machine for baskets. No. 1,151,067; Aug. 24; Gaz. vol. 217; p. 1135.
- Townsend, Frank P., Elyria, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,140,545; May 25; Gaz. vol. 214; p. 1104.
- Townsend, George E., Springfield, Ohio. Rake. No. 1,142,127; June 8; Gaz. vol. 215; p. 404.
- Townsend, George H., Seattle, Wash. Key-fastener. No. 1,151,738; Aug. 31; Gaz. vol. 217; p. 1409.
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sealing closures. No. 1,154,352; Sept. 21; Gaz. vol. 218; p. 772.
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Closure. No. 1,159,624; Nov. 9; Gaz. vol. 220; p. 457.
- Townsend, Harry P., Waterbury, Conn. Gearing. No. 1,155,847; Oct. 5; Gaz. vol. 219; p. 183.

- Townsend, Herbert E., East Providence, assignor to Brown & Sharpe Manufacturing Co., Providence, R. I. Reversing mechanism. No. 1,129,762; Feb. 23; Gaz. vol. 211; p. 1205.
- Townsend, James R., *et al.* (See Wilson, Charles A., assignor.)
- Townsend, John J., administrator. (See Townsend, Fitzhugh.)
- Townsend, Louis, assignor of one-half to G. Schmitt, Sr., Evansville, Ind. Autosleigh. No. 1,125,604; Jan. 19; Gaz. vol. 210; p. 926.
- Townsend, Ore E., Pulaski, Iowa. Waste-pipe cleaner. No. 1,164,892; Dec. 21; Gaz. vol. 221; p. 839.
- Townsend, Velda E., Livingston Manor, N. Y. Non-refillable bottle. No. 1,142,739; June 8; Gaz. vol. 215; p. 613.
- Townsend, William, *et al.* (See Meyers, Jacob E., assignor.)
- Towson, Morris S. (See Ahlm, Charles E. F., assignor.)
- Tozer, Archibald B. (See Sabin, Tozer, and Curtis.)
- Tozer, Archibald B., assignor to Reed Manufacturing Company, Cleveland, Ohio. Machine for treating fabrics. No. 1,123,427; Jan. 5; Gaz. vol. 210; p. 79.
- Toy, John W., *et al.* (See Cotter, Edward J., assignor.)
- Trabold, Frank W., and J. T. Knox, New York, N. Y. Dental tool. No. 1,158,872; Nov. 2; Gaz. vol. 220; p. 162.
- Trabue, Luther, Girard, Ill. Vehicle-thill. No. 1,129,529; Feb. 23; Gaz. vol. 211; p. 1128.
- Trabue, William, assignor to Pneumatic Hub-Tire-Wheel Co., Louisville, Ky. Resilient wheel. No. 1,125,767; Jan. 19; Gaz. vol. 210; p. 986.
- Tracy, Daniel, Great Falls, Mont. Mold. No. 1,148,939; Aug. 3; Gaz. vol. 217; p. 161.
- Tracy, Edward A., Boston, Mass. Paving-block. No. 1,135,865; Apr. 13; Gaz. vol. 213; p. 674.
- Tracy, Eugene H., Cass Lake, Minn. Combination carpenter's and surveyor's level. No. 1,145,098; July 6; Gaz. vol. 216; p. 45.
- Tracy, Harriet R., New Brighton, N. Y., assignor, by mesne assignments, to J. E. Tracy, Plainfield, N. J. Tension device for sewing-machine loop-takers. No. 1,129,922; Mar. 2; Gaz. vol. 212; p. 31.
- Tracy, Hayden H., assignor of one-half to H. E. Boyrie, San Francisco, Cal. Steam-separator. No. 1,124,556; Jan. 12; Gaz. vol. 210; p. 518.
- Tracy, James J., Cleveland, Ohio. Window-cleaning device. No. 1,158,590; Nov. 2; Gaz. vol. 220; p. 64.
- Tracy, Jeremiah E. (See Tracy, Harriet R., assignor.)
- Tracy, John J., Chicago, Ill. Clamp. No. 1,140,632; May 25; Gaz. vol. 214; p. 1133.
- Tracy, Mattie A., administratrix. (See Tracy, Thomas H.)
- Tracy, Thomas H., deceased; M. A. Tracy, administratrix, assignor of one-half to J. Nimlich, Moark, Ark. Valved propeller for small boats and the like. No. 1,162,528; Nov. 30; Gaz. vol. 220; p. 1624.
- Traiber, Gregor. (See Komarcsevit and Traiber.)
- Train, John, Westington Springs, S. D. Pump. No. 1,145,528; July 6; Gaz. vol. 216; p. 193.
- Train, Robert J. and A. Houston, Nashville, Ontario, Canada. Life-saving apparatus. No. 1,133,202; Mar. 23; Gaz. vol. 212; p. 1310.
- Trainer, James G. (See Brown, Harry W., assignor.)
- Tramell, Charles S., assignor of one-half to W. C. Seale, Pruden, Tenn. Holder for lard and butter trays and like receptacles. No. 1,134,651; Apr. 6; Gaz. vol. 213; p. 208.
- Trammell, Erasmus R., Lakeland, Fla. Automatic dirigible light for automobiles. No. 1,127,321; Feb. 2; Gaz. vol. 211; p. 229.
- Trammell, Erasmus R., Lakeland, Fla. Torpedo-guard. No. 1,139,239; May 11; Gaz. vol. 214; p. 571.
- Transcontinental Wheel Co. (See Ubezzi, Francesco V., assignor.)
- Transmission Akts. (See Martins, Jens C., assignor.)
- Transo Paper Company. (See Sauerman, Ernest W., assignor.)
- Tranter, William H., Los Angeles, Cal. Hydrocarbon-burner. No. 1,136,848; Apr. 20; Gaz. vol. 213; p. 1062.
- Trask, William S., assignor to The American Hardware Corporation, New Britain, Conn. Sash centering and holding means. No. 1,129,530; Feb. 23; Gaz. vol. 211; p. 1128.
- Traub, Herman W. (See Morrissey and Traub.)
- Traube, Luther, Girard, Ill., assignor to The Ney Manufacturing Company, Canton, Ohio. Door-hanger. (Re-issue.) No. 1,393,1; June 15; Gaz. vol. 215; p. 963.
- Fraut, Clifford. (See Higgon and Traut.)
- Traut & Hine Manufacturing Company. (See Humphrey, Ernest N., assignor.)
- Trautman, Frederick C. (See Kaufmann, Frank J., assignor.)
- Trautman, Walter G., assignor to The P. A. Geler Company, Cleveland, Ohio. Vacuum cleaning apparatus. No. 1,153,734; Sept. 14; Gaz. vol. 218; p. 523.
- Travaglia, Bartol, Campello, Mass. Life-saving apparatus. No. 1,152,242; Aug. 31; Gaz. vol. 217; p. 1584.
- Traver, Frank A., Milwaukee, Wis. Corn-popper. No. 1,153,465; Sept. 14; Gaz. vol. 218; p. 428.
- Traver, Philip C., Far Rockaway, N. Y., assignor to Traver Puncture Proof Tire Company Inc. Tire. No. 1,137,930; May 4; Gaz. vol. 214; p. 72.
- Traver Puncture Proof Tire Company Inc. (See Traver, Philip C., assignor.)
- Traver, Walter P., and L. F. Theis, San Francisco, Cal. Cable-armor joint. No. 1,137,931; May 4; Gaz. vol. 214; p. 72.
- Traver, William B. (See Fox, Mac L., assignor.)
- Travers, Charles J., Oak Park, Ill. Revolving chair. No. 1,155,627; Oct. 5; Gaz. vol. 219; p. 104.
- Travers, Thomas K., San Diego, Cal. Boxing-glove. No. 1,150,648; Aug. 17; Gaz. vol. 217; p. 935.
- Travers, William E., assignor of one-half to E. E. Trefethen, Oakland, Cal. Tire. No. 1,162,321; Nov. 30; Gaz. vol. 220; p. 1554.
- Travers, William J., Buffalo, N. Y. Sound reproducer and recorder. No. 1,131,442; Mar. 9; Gaz. vol. 212; p. 589.
- Traversaro, Ignatius, San Francisco, Cal. Attachment for pianos. No. 1,144,512; June 29; Gaz. vol. 215; p. 1326.
- Traverse City Chair Company. (See Greilick, Clarence L., assignor.)
- Travis, Albro, Brewster, assignor to J. Lynch, Albany, N. Y. Double-acting leaf-spring. No. 1,147,578; July 20; Gaz. vol. 216; p. 951.
- Travis, Clarence C. (See Antoine, Alfred D., assignor.)
- Travis, Denison E. (See Heywood and Travis.)
- Travis, John M., St. Louis, Mo. Sugar-bowl. No. 1,141,368; June 1; Gaz. vol. 215; p. 101.
- Traylor, Bruce W., assignor to Traylor Engineering and Manufacturing Co., Allentown, Pa. Crusher-roll. No. 1,162,892; Dec. 7; Gaz. vol. 221; p. 55.
- Traylor Engineering and Manufacturing Co. (See Traylor, Bruce W., assignor.)
- Traylor, John A., Denver, Colo. Rotary runner for rotary and centrifugal pumps. No. 1,131,294; Mar. 9; Gaz. vol. 212; p. 538.
- Trayman, Albert, Chicago, Ill. Mold. No. 1,126,131; Jan. 26; Gaz. vol. 210; p. 1149.
- Treahy, Bartholomew T., Detroit, Mich. Pneumatic action for pianos. No. 1,130,943; Mar. 9; Gaz. vol. 212; p. 418.
- Trebert, Henry L. F., Rochester, N. Y. Valve mechanism. No. 1,145,631; July 6; Gaz. vol. 216; p. 229.
- Treboul, Leon, New York, N. Y. Wrench. No. 1,163,185; Dec. 7; Gaz. vol. 221; p. 158.
- Tredegar Company, The. (See Gardner and Grow, assignors.)
- Tredup, Erich, *et al.* (See Cechal, Ferdinand, assignor.)
- Tredway, William E., Blackwell, Okla., assignor to W. R. Fretz and G. W. Collinson, Arkansas City, Kans. Rain-gage. No. 1,153,355; Sept. 14; Gaz. vol. 218; p. 389.
- Tree Faller & Cutter Co. (See Johnson, Pierce X., assignor.)
- Trees, Liberty. (See Quigley and Trees.)
- Treese, Albert L., Cushing, assignor to Anderson, Clayton & Company, Oklahoma, Okla. Cotton-press. No. 1,125,768; Jan. 19; Gaz. vol. 210; p. 986.
- Trefethen, E. E. (See Travers, William E., assignor.)
- Trefs, George, Jersey City, N. J. Advertising device. No. 1,150,404; Aug. 17; Gaz. vol. 217; p. 849.
- Trego, Frank H., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,132,048; Mar. 16; Gaz. vol. 212; p. 840.
- Trego, Frank H., assignor to Knox Motors Company, Springfield, Mass. Hydraulic brake mechanism. No. 1,147,579; July 20; Gaz. vol. 216; p. 951.
- Tregoning, William C., Cleveland, Ohio, assignor, by mesne assignments, to Benjamin Electric Manufacturing Company, Chicago, Ill. Plug for incandescent electric lamps. No. 1,125,605; Jan. 19; Gaz. vol. 210; p. 926.
- Treiber, Albert. (See Schmitt, John O., assignor.)
- Treiber, Theodore R., assignor to F. Huttig, Kansas City, Mo. Display-case mechanism. No. 1,123,428; Jan. 5; Gaz. vol. 210; p. 80.
- Treiber, Theodore R., and J. W. Johnson, assignors to F. Huttig, Kansas City, Mo. Pool-table pocket. No. 1,123,429; Jan. 5; Gaz. vol. 210; p. 80.
- Treiber, William F., Corning, and E. L. Bulkley, Painted Post, assignors to Ingersoll-Rand Company, New York, N. Y. Pressure-controlled valve. No. 1,145,043; July 6; Gaz. vol. 216; p. 25.
- Tremaine, Edward G., assignor to Automatic Weighing Machine Company, Newark, N. J. Carton-sealing machine. No. 1,141,156; June 1; Gaz. vol. 215; p. 23.
- Treman, George C., Aurora, Ill. Ventilator. No. 1,146,215; July 13; Gaz. vol. 216; p. 454.
- Trembath, Dionysius W., New York, N. Y. Sash-counter-balance. No. 1,135,227; Apr. 13; Gaz. vol. 213; p. 449.
- Tremblay, Francis V., Rumford, Me. Shoe-fastener. No. 1,155,973; Oct. 5; Gaz. vol. 219; p. 225.
- Trench, Ira J., Middletown, Conn. Stone-ballast cleaner. No. 1,129,820; Feb. 23; Gaz. vol. 211; p. 1224.
- Trenholm, Ephraim A., Sparta, Minn. Spirit-level. No. 1,130,552; Mar. 2; Gaz. vol. 212; p. 250.
- Trent, Lamartine C., Los Angeles, Cal. Apparatus for treating solid-bearing solutions. No. 1,152,769; Sept. 7; Gaz. vol. 218; p. 142.
- Trent, Walter E., Reno, Nev. Filtering-pan. No. 1,125,769; Jan. 19; Gaz. vol. 210; p. 987.
- Trenton Electric and Conduit Company. (See Alpaugh, Clifford J., assignor.)
- Trenton Electric and Conduit Company. (See Nutt, Norman W., assignor.)

Alphabetical list of patentees—Continued.

- Trenton Porcelain Company. (See Freeman, Edgar H., assignor.)
- Trentowsky, Albert E., St. John, New Brunswick, Canada. Egg-basket. No. 1,125,213; Jan. 19; Gaz. vol. 210; p. 788.
- Treo, Alfons, Duquesne, Pa. Building construction. No. 1,137,297; Apr. 27; Gaz. vol. 213; p. 1262.
- Trepp, Samuel. (See Anderson and Trepp.)
- Trescott, Charles B., Indianapolis, Ind., assignor to H. L. Millis, Chicago, Ill. Curing meat. No. 1,134,299; Apr. 6; Gaz. vol. 213; p. 79.
- Treize, Arthur R., Sr., Brooklyn, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electromagnet. No. 1,134,779; Apr. 6; Gaz. vol. 213; p. 255.
- Tri-Prong Hair Pin Co., The. (See Belz and Nacke, assignors.)
- Tri-Unit Electrical Co., The. (See Struthers, Joshua A., assignor.)
- Triem, Jakob, Frankfort-on-the-Main, Germany, assignor to United Shoe Machinery Company, Paterson, N. J. Tip-measuring apparatus for pulling-over machines. No. 1,142,128; June 8; Gaz. vol. 215; p. 404.
- Triem, Jakob, Frankfort-on-the-Main, Germany, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon the soles of boots and shoes. No. 1,161,086; Nov. 23; Gaz. vol. 220; p. 1073.
- Trier, James M., New York, N. Y. Printing-press. No. 1,146,672; July 13; Gaz. vol. 216; p. 614.
- Triest, Frank, San Francisco, Cal. Warning-indicator for vehicles. No. 1,147,829; July 27; Gaz. vol. 216; p. 1065.
- Triester Mineral-Oil-Raffinerie. (See Opl, Karl, assignor.)
- Trigalet, Walter D., Mamaroneck, N. Y. Pneumatic tire. No. 1,140,777; May 25; Gaz. vol. 214; p. 1180.
- Trigalet, Walter D., Mamaroneck, N. Y. Tire construction. No. 1,140,778; May 25; Gaz. vol. 214; p. 1180.
- Trigg, Margaret A. (See O'Donoghue and Trigg.)
- Triggs, James M., Huntington, Ind. Register. No. 1,152,864; Sept. 7; Gaz. vol. 218; p. 178.
- Trimbach, Joseph, Rye, N. Y. Printing-camera. No. 1,159,296; Nov. 2; Gaz. vol. 220; p. 308.
- Trimbach, Joseph, Rye, N. Y. Printing-camera. No. 1,162,666; Nov. 30; Gaz. vol. 220; p. 1667.
- Trimbey, Edward J., Windsor, Quebec, Canada. Stuff-meter. No. 1,161,168; Nov. 23; Gaz. vol. 220; p. 1103.
- Trimble, Charles P., *et al.* (See Jones, Joshua J., assignor.)
- Trimble, James A., Brooklyn, N. Y. Hydrogen-peroxid solution. No. 1,128,637; Feb. 16; Gaz. vol. 211; p. 779.
- Trimble, Jesse C., North Otter, Ill. Mail-box. No. 1,142,286; June 8; Gaz. vol. 215; p. 459.
- Trimmer, Howard A. (See Ritchay and Trimmer.)
- Trimpey, Alice K., Baraboo, Wis. Combined spool and implement holder. No. 1,165,042; Dec. 21; Gaz. vol. 221; p. 892.
- Trimyer, Herry L., Portsmouth, Va. Ladder. No. 1,157,602; Oct. 19; Gaz. vol. 219; p. 848.
- Triner, James M., Chicago, Ill. Rotary valve mechanism for gas-engines. No. 1,135,078; Apr. 13; Gaz. vol. 213; p. 399.
- Trinkaus, Charles W., Catonsville, Md. Hinge. No. 1,142,542; June 8; Gaz. vol. 215; p. 549.
- Trinks, Franz, Brunswick, Germany. Carrying mechanism for calculating-machines. No. 1,134,780; Apr. 6; Gaz. vol. 213; p. 255.
- Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,149,872; Aug. 10; Gaz. vol. 217; p. 598.
- Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,160,015; Nov. 9; Gaz. vol. 220; p. 597.
- Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,162,667; Nov. 30; Gaz. vol. 220; p. 1667.
- Trio Manufacturing Company. (See Leveen, Swan J., assignor.)
- Triplett, Charles L. (See Hoffman, Triplett, and Fawcett.)
- Tripp, Edgar F., Kingston, assignor of one-half to J. J. Tripp, Macomb, Okla. Cheese-cutter. No. 1,162,713; Nov. 30; Gaz. vol. 220; p. 1684.
- Tripp, Eliphalet A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for feeding nails. No. 1,132,638; Mar. 23; Gaz. vol. 212; p. 1104.
- Tripp, Frank F., Roxbury, Mass. Self-seating valve. No. 1,125,606; Jan. 19; Gaz. vol. 210; p. 927.
- Tripp Fruit Wrapping Machine Company. (See Ballard, Milton H., assignor.)
- Tripp, Henry C., Auburn, N. Y. Window-bead fastener. No. 1,144,571; June 29; Gaz. vol. 215; p. 1345.
- Tripp, John J. (See Tripp, Edgar F., assignor.)
- Tripp, Solomon, La Junta, Colo. Superheater. No. 1,141,993; June 8; Gaz. vol. 215; p. 354.
- Triska, Joseph, Omaha, Nebr. Spark-plug. No. 1,138,811; May 11; Gaz. vol. 214; p. 421.
- Trisler, John, Homer, Ill. Tank-heater. No. 1,152,671; Sept. 7; Gaz. vol. 218; p. 108.
- Trissel, Frank N., assignor to The Ohio Rake Company, Dayton, Ohio. Disk harrow. No. 1,147,281; July 20; Gaz. vol. 216; p. 846.
- Trist, Arthur R., London, England. Double oppositely-disposed valve. No. 1,133,682; Mar. 30; Gaz. vol. 212; p. 1519.
- Trist, Edward, Pittsburgh, Pa. Gas stove and range. No. 1,144,158; June 22; Gaz. vol. 215; p. 1176.
- Trittle, John F., Schenectady, N. Y., assignor to General Electric Company. Series-parallel control system. No. 1,160,673; Nov. 16; Gaz. vol. 220; p. 884.
- Trittle, John F., Schenectady, N. Y., assignor to General Electric Company. System of control for electric motors. No. 1,160,674; Nov. 16; Gaz. vol. 220; p. 884.
- Tritt, Arthur A. (See Umbarger, Albert R., assignor.)
- Triumph Manufacturing Company, The. (See Bunker, Charles A., assignor.)
- Triumph Pipe Company, The. (See Ross, Walter T., assignor.)
- Triumph Voting Machine Company. (See Abbott, Charles C., assignor.)
- Trivne Engineering Co. (See Rick, Jacob, assignor.)
- Trivisonno, Michael L., Cleveland, Ohio. Hat. No. 1,162,824; Dec. 7; Gaz. vol. 221; p. 33.
- Troeger, John F. R., New York, N. Y. Translucent picture-projection screen. No. 1,151,502; Aug. 24; Gaz. vol. 217; p. 1282.
- Troehler, Rudolph, Cincinnati, Ohio. Keg-soaking apparatus. No. 1,128,825; Feb. 16; Gaz. vol. 211; p. 844.
- Trold, John, St. Louis, Mo. Vending-machine. No. 1,138,261; May 4; Gaz. vol. 214; p. 188.
- Troike, Ernst, Sandusky, Ohio. Muffler. No. 1,137,554; Apr. 27; Gaz. vol. 213; p. 1352.
- Trojan Machine Company, The. (See Scovill, James P., assignor.)
- Trojevsky, Charles, Norway, Iowa. Air-governor. No. 1,129,763; Feb. 23; Gaz. vol. 211; p. 1205.
- Troll, Frederick J., assignor of one-half to D. H. Thomas, Jr., Baltimore, Md. Combined load indicator and alarm for motor-trucks. No. 1,147,127; July 20; Gaz. vol. 216; p. 792.
- Troll, Frederick J., assignor of one-half to D. H. Thomas, Jr., Baltimore, Md. Combined load indicator and alarm for motor-trucks. No. 1,147,128; July 20; Gaz. vol. 216; p. 793.
- Trolle, Sofus, assignor to Racine Aluminum Shoe Company, Racine, Wis. Boot, shoe, and the like. No. 1,141,889; June 1; Gaz. vol. 215; p. 280.
- Tromley, Claude R. (See Merliss, Morduck, assignor.)
- Trommald, Gunder T. (See Martin, Harry J., assignor.)
- Tronchon, Louis, assignor to Compagnie Generale Radio-Telegraphique, Paris, France. Wireless telegraphy. No. 1,129,821; Feb. 23; Gaz. vol. 211; p. 1225.
- Trood, Samuel, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety device for starting-motors. No. 1,130,041; Mar. 2; Gaz. vol. 212; p. 70.
- Trood, Samuel, Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Soldering-iron. No. 1,130,218; Mar. 2; Gaz. vol. 212; p. 131.
- Trood, Samuel, Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Making electrical apparatus. No. 1,150,081; Aug. 17; Gaz. vol. 217; p. 734.
- Tropek, Joseph, Noblestown, Pa. Auger. No. 1,160,675; Nov. 16; Gaz. vol. 220; p. 885.
- Tropp, Willy, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Red wool-dyestuff. No. 1,123,430; Jan. 5; Gaz. vol. 210; p. 80.
- Troppman, Charles J., assignor to F. A. Hardy & Company, Chicago, Ill. Tool for angling the crests of the bridges of spectacles or eyeglasses. No. 1,128,638; Feb. 16; Gaz. vol. 211; p. 779.
- Trostel, Albert O., *et al.* (See Erlinger, George, assignor.)
- Trostel, John H., Marion, Ind. Harmonic attachment. No. 1,164,431; Dec. 14; Gaz. vol. 221; p. 639.
- Troth, Dana S., Stockton, Cal. Gang-plow frame. No. 1,157,067; Oct. 19; Gaz. vol. 219; p. 663.
- Troth, Harry W., Philadelphia, Pa. Pilot for sliding doors. No. 1,146,673; July 13; Gaz. vol. 216; p. 615.
- Trott, Thekla, Berlin, Germany. Sewing-machine. No. 1,154,946; Sept. 28; Gaz. vol. 218; p. 1002.
- Trotter, Walter F., Charleston, W. Va., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Mining-machine. No. 1,127,697; Feb. 9; Gaz. vol. 211; p. 399.
- Trotter, Walter F., Charleston, W. Va., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Mining-machine. No. 1,127,698; Feb. 9; Gaz. vol. 211; p. 399.
- Trotter, Walter F., Charleston, W. Va., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Mining-machine. No. 1,127,699; Feb. 9; Gaz. vol. 211; p. 400.
- Trotter, Walter F., Charleston, W. Va., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Mining-machine. No. 1,127,700; Feb. 9; Gaz. vol. 211; p. 400.
- Trotter, Walter F., Charleston, W. Va., assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Mining-machine. No. 1,127,701; Feb. 9; Gaz. vol. 211; p. 401.
- Trout, Charles H. (See Harnsberger and Trout.)
- Troutman, George W., Caldwell, Kans. Traversing jack. No. 1,131,018; Mar. 9; Gaz. vol. 212; p. 443.
- Troutman, William F., Boston, Ky. Hinge. No. 1,140,216; May 18; Gaz. vol. 214; p. 951.

Alphabetical list of patentees—Continued.

- Trovaton, Andrew, Thief River Falls, Minn. Coin-box. No. 1,161,909; Nov. 30; Gaz. vol. 220; p. 1409.
- Troville, Frederick H., South Hero, Vt. Cradle-bit. No. 1,152,770; Sept. 7; Gaz. vol. 218; p. 142.
- Trowbridge, Emory E., Kansas City, Kans. Manufacturing bricks. No. 1,154,741; Sept. 28; Gaz. vol. 218; p. 933.
- Trowbridge, Frank C., *et al.* (See King and Neary, assignors.)
- Trowbridge, Frank C., *et al.* (See Kutter, Herman L., assignor.)
- Trowbridge, Henry L. (See Clement, Burton H., assignor.)
- Trowbridge, James A., Jr., Noroton, Conn. Cap for storage-tanks. No. 1,166,921; Dec. 28; Gaz. vol. 221; p. 1272.
- Trowbridge, William S., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Striking-block. No. 1,165,729; Dec. 28; Gaz. vol. 221; p. 1173.
- Trower, Lee, *et al.* (See Farmer, James, assignor.)
- Troxel, David S., Elyria, Ohio. Motor-cycle and saddle therefor. No. 1,128,735; Feb. 16; Gaz. vol. 211; p. 811.
- Troxel, David S., Elyria, Ohio. Motor-cycle and saddle therefor. No. 1,140,724; May 25; Gaz. vol. 214; p. 1162.
- Troxel Manufacturing Company, The. (See Fentress, Frank P., assignor.)
- Troy Laundry Machinery Company. (See Balzer, Fritz, assignor.)
- Trov Laundry Machinery Company. (See Bartholomew, William, assignor.)
- Troye, Einar, assignor to Norsk Hydro-elektrisk Kvaestof-aktieselskab, Christiania, Norway. Preventing punctures in electric flame-arc furnaces. No. 1,148,343; July 27; Gaz. vol. 216; p. 1250.
- Troye, Einar, assignor to Norsk Hydro-Elektrisk Kvaestof-aktieselskab, Christiania, Norway. Apparatus for improving the stability of furnaces with magnetically-extended electric arcs. No. 1,156,192; Oct. 12; Gaz. vol. 219; p. 326.
- Truax, Marshall M., Jerome, Pa. Gas-igniter. No. 1,157,911; Oct. 26; Gaz. vol. 219; p. 1022.
- Truax, Sewall, Canon City, Colo., assignor to Granadena Mining Company. Treatment of zinc ore or zinc-bearing material. No. 1,155,628; Oct. 5; Gaz. vol. 219; p. 105.
- Truax, William T., assignor to The United States Register Company, Battle Creek, Mich. Register-slat operator. No. 1,163,383; Dec. 7; Gaz. vol. 221; p. 227.
- Trucano, Charles J., Cle Elum, Wash. Insulating system. No. 1,140,633; May 25; Gaz. vol. 214; p. 1133.
- Truchan, Antoni, Flint, Mich. Moving-picture car. No. 1,143,946; July 13; Gaz. vol. 216; p. 359.
- Truchan, Antoni, Flint, Mich. Dresser-chair. No. 1,165,918; Dec. 28; Gaz. vol. 221; p. 1237.
- Truchetet, Jean B. (See Grillet and Truchetet.)
- Truchot, Alexander, Choteau, Mont. Milking-machine. No. 1,132,639; Mar. 23; Gaz. vol. 212; p. 1104.
- True, Charles H., Hammond, Ind., assignor to Locomotive Superheater Company, New York, N. Y. Machine-tool for grinding spherical surfaces. No. 1,128,918; Feb. 16; Gaz. vol. 211; p. 878.
- True, Charles H., Hammond, Ind., and N. T. McKee, Dobbs Ferry, assignors to Locomotive Superheater Company, New York, N. Y. Die for making pipe-bends. No. 1,155,109; Sept. 28; Gaz. vol. 218; p. 1060.
- True, Charles H., Hammond, Ind., and N. T. McKee, Yonkers, assignors to Locomotive Superheater Company, New York, N. Y. Making pipe-bends. No. 1,155,110; Sept. 28; Gaz. vol. 218; p. 1060.
- True, George A., assignor of one-half to Northern Engineering Works, Detroit, Mich. Crane-trolley. No. 1,128,551; Feb. 16; Gaz. vol. 211; p. 750.
- True, George A., assignor of one-half to Northern Engineering Works, Detroit, Mich. Crane. No. 1,144,972; June 29; Gaz. vol. 215; p. 1483.
- True, Harry U., Brighton, Mass. Golf-tee. No. 1,142,997; June 15; Gaz. vol. 215; p. 746.
- True, Thomas B., Eaton Rapids, Mich. Sleigh. No. 1,153,735; Sept. 14; Gaz. vol. 218; p. 524.
- Truesbury, Fred C., assignor to J. L. Clark Manufacturing Company, Rockford, Ill. Sifter-top closure. No. 1,153,356; Sept. 14; Gaz. vol. 218; p. 389.
- Truesdell, John P., Tiverton, assignor of one-third to G. F. Masterson and one-third to R. A. McIntire, Providence, R. I. Oil-lamp burner. No. 1,141,435; June 1; Gaz. vol. 215; p. 125.
- Trullitt, John T., St. Louis, Mo. Collar-ironing apparatus. No. 1,164,238; Dec. 14; Gaz. vol. 221; p. 569.
- Trulan, Frederick G. (See Van Sickle and Trulan.)
- Trull, John M., Trull, Colo. Current-operated pumping apparatus. No. 1,138,158; May 4; Gaz. vol. 214; p. 154.
- Truman, Percival H., Evanston, assignor to O. R. Barnett, Chicago, Ill. Rail-stay. No. 1,150,559; Aug. 17; Gaz. vol. 217; p. 904.
- Trumble, John T., Flint, Mich. Piston. No. 1,163,710; Dec. 14; Gaz. vol. 221; p. 387.
- Trumble, John T., assignor of one-half to C. C. Spreen, Saginaw, Mich. Automobile-body. No. 1,124,676; Jan. 12; Gaz. vol. 210; p. 562.
- Trumble, John T., assignor of one-half to A. B. C. Hardy, Flint, Mich. Pump. No. 1,161,999; Nov. 30; Gaz. vol. 220; p. 1441.
- Trumbull, John H., Plainville, Conn. Camera. No. 1,146,291; July 13; Gaz. vol. 216; p. 480.
- Trümper, Julius, Tempelhof, Germany. Bookbinding apparatus. No. 1,131,877; Mar. 16; Gaz. vol. 212; p. 778.
- Trundle, George T., Jr., assignor to The American Multi-graph Company, Cleveland, Ohio. Plate-release. No. 1,148,940; Aug. 3; Gaz. vol. 217; p. 161.
- Trunkey, Harry I. (See Merrill, John F., assignor.)
- Truscott, Harold S., Makaweli, Hawaii. Entralment-tester. No. 1,142,287; June 8; Gaz. vol. 215; p. 459.
- Truscott, Harry A., Washington, D. C. Parcel-post envelop. No. 1,154,276; Sept. 21; Gaz. vol. 218; p. 745.
- Truscott, Harry A., Washington, D. C. Parcel-post envelop. No. 1,156,507; Oct. 12; Gaz. vol. 219; p. 438.
- Trussed Concrete Steel Company. (See Plumb and Weed, assignors.)
- Trussell, Clarence D., Poughkeepsie, N. Y. Temporary binder. No. 1,141,157; June 1; Gaz. vol. 215; p. 23.
- Trussell, Emory A., New York, N. Y. Loose-leaf-binding device. No. 1,138,262; May 4; Gaz. vol. 214; p. 188.
- Trussell, Emory A., assignor to Boorum & Pease Loose Leaf Book Company, New York, N. Y. Loose-leaf binder. No. 1,150,719; Aug. 17; Gaz. vol. 217; p. 958.
- Trusswall Manufacturing Company, The. (See Higgins, Albert G., assignor.)
- Truxall, Ephraim, assignor of one-half to B. Arthurs, Pittsburgh, Pa. Can. No. 1,144,159; June 22; Gaz. vol. 215; p. 1176.
- Truxell, John J. M., Pittsburgh, Pa. Receptacle. No. 1,159,552; Nov. 9; Gaz. vol. 220; p. 430.
- Truxell, Whiteley W., and W. K. Wertz, Greensburg, Pa. Valved lubricating device. No. 1,149,873; Aug. 10; Gaz. vol. 217; p. 599.
- Trydal, Nils. (See Rosten and Trydal.)
- Tryens, Marion A., West Chester, Pa. Music-holder. No. 1,157,194; Oct. 19; Gaz. vol. 219; p. 708.
- Trypani, Emmanuel G., Adana, Turkey in Asia. Apparatus for separating fiber-covered seeds from the pods in which they grow. No. 1,146,824; July 20; Gaz. vol. 216; p. 686.
- Trysna, Josef, Haindorf, Austria-Hungary, assignor to S. O. Adler, Altoona, Pa. Valve for steam-engines. No. 1,154,736; Sept. 14; Gaz. vol. 218; p. 524.
- Tschantz, William H., Orville, Ohio. Corn-husking machine. No. 1,153,173; Sept. 28; Gaz. vol. 218; p. 1082.
- Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Molding-machine. No. 1,155,019; Sept. 28; Gaz. vol. 218; p. 1020.
- Tschudy, Fred, Birmingham, Ala. Coke-producing plant. No. 1,139,088; May 11; Gaz. vol. 214; p. 519.
- Tschudy, Frederick, Fairfield, Ala. Acid-spray catcher. No. 1,135,471; Apr. 13; Gaz. vol. 213; p. 534.
- Tschudy, Frederick, Fairfield, Ala. Producing ammonium sulfate. No. 1,155,385; Oct. 5; Gaz. vol. 219; p. 21.
- Tschudy, Frederick, Fairfield, Ala. Saturating apparatus. No. 1,155,386; Oct. 5; Gaz. vol. 219; p. 21.
- Tschudy, Frederick, Fairfield, Ala. Tar-extractor. No. 1,155,387; Oct. 5; Gaz. vol. 219; p. 22.
- Tschudy, Frederick, Birmingham, Ala. Cracker-pipe for saturating apparatus. No. 1,135,472; Apr. 13; Gaz. vol. 213; p. 535.
- Tsakalas, Pelopidas D., and A. H. Kersting, South Bethlehem, Pa. Method of and apparatus for extinguishing fire in guns. No. 1,128,639; Feb. 16; Gaz. vol. 211; p. 779.
- Tubbs, Herbert A., Portland, Mich. Steam-boiler. No. 1,132,985; Mar. 23; Gaz. vol. 212; p. 1232.
- Tubering, William F., Milwaukee, Wis. Reinforced concrete structure. No. 1,127,702; Feb. 9; Gaz. vol. 211; p. 401.
- Tubular Rivet & Stud Company. (See Bray, William C., assignor.)
- Tubular Rivet & Stud Company. (See Coombs, Walter J., assignor.)
- Tuck, Nelson L., Richmond Hill, assignor of one-half to W. A. Tuck, Brooklyn, N. Y. Picture-hanger. No. 1,161,268; Nov. 23; Gaz. vol. 220; p. 1140.
- Tuck, Walter A. (See Tuck, Nelson L., assignor.)
- Tucker, Andrew P., assignor to The No-Break Egg Carrier Company, Cincinnati, Ohio. Machine for making paper forms. No. 1,159,812; Nov. 9; Gaz. vol. 220; p. 525.
- Tucker, Andrew P., assignor to The No-Break Egg Carrier Company, Cincinnati, Ohio. Machine for making paper forms. No. 1,160,962; Nov. 16; Gaz. vol. 220; p. 985.
- Tucker, Arthur F., Williamsburg, Kans. Corn-topping machine. No. 1,135,079; Apr. 13; Gaz. vol. 213; p. 400.
- Tucker Autofeed Company. (See Tucker, Junius E., assignor.)
- Tucker, Benjamin A., Nashville, Tenn. Burner attachment. No. 1,164,768; Dec. 21; Gaz. vol. 221; p. 796.
- Tucker, Benjamin W., South Orange, N. J. Barrel-machine. No. 1,152,575; Sept. 7; Gaz. vol. 218; p. 73.
- Tucker, Benjamin W., South Orange, N. J. Method and means for preserving food products. No. 1,161,550; Nov. 23; Gaz. vol. 220; p. 1240.
- Tucker, Charles F., Hartford, Conn. Oil-hole cover. No. 1,134,025; Mar. 30; Gaz. vol. 212; p. 1634.

Alphabetical list of patentees—Continued.

- Tucker, Clarence E., Hyde Park, Mass. Utilizing battery-waste. No. 1,148,062; July 27; Gaz. vol. 216; p. 1149.
- Tucker, Curtis A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-breaker. No. 1,151,739; Aug. 31; Gaz. vol. 217; p. 1410.
- Tucker, Edward A. (See Dale and Tucker.)
- Tucker, Edwin W., San Francisco, Cal. Fuel-oil-burning apparatus. No. 1,136,849; Apr. 20; Gaz. vol. 213; p. 1063.
- Tucker, Frank S., Boston, assignor of one-half to E. P. Severance, Brockton, Mass. Electric bell. No. 1,123,818; Jan. 5; Gaz. vol. 210; p. 212.
- Tucker, Harry G., Chicago, Ill. Fuel-economizer. No. 1,151,308; Aug. 24; Gaz. vol. 217; p. 1217.
- Tucker, James W., Argenta, Ark. Jack. No. 1,157,461; Oct. 19; Gaz. vol. 219; p. 803.
- Tucker, Junius E., New York, N. Y., assignor, by mesne assignments, to Tucker Autofeed Company. Delivery mechanism for printing-presses. No. 1,147,129; July 20; Gaz. vol. 216; p. 793.
- Tucker, Luther G., Owosso, Mich. Combination rule and drafting instrument. No. 1,145,719; July 6; Gaz. vol. 216; p. 261.
- Tucker, Olivia W., East Providence, and J. K. Shirley, Providence, R. I. Portable water-heater. No. 1,124,362; Jan. 12; Gaz. vol. 210; p. 448.
- Tucker, William G., *et al.* (See Smith, Edgar W., assignor.)
- Tuckett, Henry A., and V. A. Hellstrom, Salt Lake City, Utah. Scraper. No. 1,143,465; June 15; Gaz. vol. 215; p. 910.
- Tuckett, William F. (See Steiner and Tuckett.)
- Tudhope, George V. (See Cranmer and Tudhope.)
- Tudor, Kate B., Lexington, Ky. Bundle-wrapper. No. 1,128,388; Feb. 16; Gaz. vol. 211; p. 692.
- Tueckmantel, Hugo, Irvington, N. J., assignor to The R. Neumann Hardware Co. Angle-iron or bracket for English or sewed-in bags. No. 1,127,830; Feb. 9; Gaz. vol. 211; p. 451.
- Tueckmantel, Hugo, Irvington, N. J., assignor to The R. Neumann Hardware Co. Suitcase. No. 1,131,443; Mar. 9; Gaz. vol. 212; p. 589.
- Tueckmantel, Hugo, Irvington, N. J., assignor to The R. Neumann Hardware Co. English or sewed-in bag frame. No. 1,151,838; Aug. 31; Gaz. vol. 217; p. 1445.
- Tuerk, Albert, Chicago, Ill. Culinary timing apparatus. No. 1,153,466; Sept. 14; Gaz. vol. 218; p. 429.
- Tufting Machine Supply Company. (See Niehauser, Edward C., assignor.)
- Tufts, Hosea C. (See Richardson, Charles H., assignor.)
- Tuite, Thomas P., New York, N. Y. Hose-supporter. No. 1,152,672; Sept. 7; Gaz. vol. 218; p. 108.
- Tuleski, Bernard M., assignor of one-half to J. Superzynski, Bay City, Mich. Horseshoe. No. 1,144,449; June 29; Gaz. vol. 215; p. 1305.
- Tullar, William R., Chicago, Ill. Clutch transmission. No. 1,128,079; Feb. 9; Gaz. vol. 211; p. 538.
- Tullberg, Fridolf A. (See Parmfelt and Tullberg.)
- Tuller, Nathan G., and A. M. Rasmussen, Beloit, Wis. Ice-skate. No. 1,143,868; June 22; Gaz. vol. 215; p. 1072.
- Tullis, David K., Glasgow, Scotland. Ironing-machine. No. 1,132,290; Mar. 16; Gaz. vol. 212; p. 929.
- Tulloch, Harry A. (See Conrad, Elmer E., assignor.)
- Tully, John J. (See Fitzpatrick, George M., assignor.)
- Tuma, Martin, New Prague, Minn. Beater for threshing-machines or separators. No. 1,150,908; Aug. 24; Gaz. vol. 217; p. 1081.
- Tumminelli, Arcangelo M. J., Baltimore, Md. Fireproofing composition. No. 1,126,132; Jan. 26; Gaz. vol. 210; p. 1149.
- Tuners' Supply Company. (See Hale, Harold E., assignor.)
- Tunich, Laza, Greenfield, Mich. Work-holder. No. 1,147,830; July 27; Gaz. vol. 216; p. 1065.
- Tunison, Arthur C., assignor to Atlas Concrete Pipe Machinery Company, Salt Lake City, Utah. Pipe-making machine. No. 1,137,680; Apr. 27; Gaz. vol. 213; p. 1393.
- Tunison, Garrett M., Red Cloud, Nebr. Insect-catcher. No. 1,144,450; June 29; Gaz. vol. 215; p. 1305.
- Tuohy, William H., Eagle, Wis. Concrete-mold. No. 1,126,318; Jan. 26; Gaz. vol. 210; p. 1216.
- Tuomi, Uno E., Kansas City, Mo. Swinging door. No. 1,160,676; Nov. 16; Gaz. vol. 220; p. 885.
- Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,123,626; Jan. 5; Gaz. vol. 210; p. 147.
- Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,141,506; June 1; Gaz. vol. 215; p. 150.
- Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,160,344; Nov. 16; Gaz. vol. 220; p. 765.
- Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,163,960; Dec. 14; Gaz. vol. 221; p. 474.
- Turbayne, William A., Buffalo, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Electrical system of distribution. No. 1,131,174; Mar. 9; Gaz. vol. 212; p. 496.
- Turbayne, William A., Buffalo, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. System of charging and discharging storage batteries during forming process. No. 1,132,986; Mar. 23; Gaz. vol. 212; p. 1232.
- Turbayne, William A., Niagara Falls, N. Y., assignor by mesne assignments, to Central Trust Company of New York, trustee. System of electrical regulation. No. 1,131,175; Mar. 9; Gaz. vol. 212; p. 496.
- Turbayne, William A., Niagara Falls, N. Y., assignor by mesne assignments, to Central Trust Company of New York, trustee. Automatic regulator. No. 1,131,176; Mar. 9; Gaz. vol. 212; p. 496.
- Turbo Co. (See Griep, Augustus W. H., assignor.)
- Türcat, Leon. (See Nith, Georges, assignor.)
- Turck, Frederick M., New York, N. Y. Multicolor-printing press. No. 1,146,039; July 13; Gaz. vol. 216; p. 393.
- Turck, Frederick M., New York, N. Y., assignor to The Carter-Crume Company, Limited, Toronto, Canada. Delivery mechanism for web-printing presses. No. 1,153,833; Sept. 14; Gaz. vol. 218; p. 559.
- Turck, Frederick M., Rosebank, N. Y., assignor to The Carter-Crume Company, Limited, Toronto, Canada. Web-printing press. No. 1,164,968; Dec. 21; Gaz. vol. 221; p. 866.
- Turck, Joseph A., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating machine. No. 1,154,897; Sept. 28; Gaz. vol. 218; p. 985.
- Turck, Joseph A., assignor to Rooke Automatic Register Company, Providence, R. I. Fare-register. No. 1,160,215; Nov. 16; Gaz. vol. 220; p. 720.
- Turck, Washington I. (See Wray, Jay, assignor.)
- Tureo-Halvah Company. (See Rosell, Claude A. O., assignor.)
- Tures, William, assignor of one-half to H. P. Brace, Chicago, Ill. Reproducing device for phonographs. No. 1,146,744; July 13; Gaz. vol. 216; p. 638.
- Turgeon, Arthur, Biddeford, Me. Square. No. 1,125,770; Jan. 19; Gaz. vol. 210; p. 987.
- Turk, Leo, East Youngstown, Ohio. Door-lock mechanism. No. 1,141,590; June 1; Gaz. vol. 215; p. 180.
- Turk, Max, Huron, S. D. Hay-rake attachment. No. 1,136,565; Apr. 20; Gaz. vol. 213; p. 963.
- Turka, Wenz, Cracow, Austria-Hungary. Safety-razor. No. 1,147,054; July 20; Gaz. vol. 216; p. 768.
- Turkenton, Wm., administrator. (See Bowie and Smith.)
- Turkin, Nicolai W., Moscow, Russia. Manufacture of paints and printing-colors. No. 1,164,036; Dec. 14; Gaz. vol. 221; p. 501.
- Turkin, Nicolai W., Moscow, Russia. Printing-surface for color-printing. No. 1,164,037; Dec. 14; Gaz. vol. 221; p. 502.
- Turnbo, Annie M. (See Majors, Walter L., assignor.)
- Turnbull, Alexander, Glasgow, Scotland. Tire-wrench. No. 1,137,555; Apr. 27; Gaz. vol. 213; p. 1352.
- Turnbull, Emily D., *et al.*, executors. (See Turnbull, Walter J.)
- Turnbull Manufacturing Company, The. (See Neer, Harry M., assignor.)
- Turnbull, Nicholas K., Manchester, England. Galvanizing-bath. No. 1,132,889; Mar. 23; Gaz. vol. 212; p. 1195.
- Turnbull, Nicholas K., Manchester, England. Galvanizing-bath. No. 1,151,629; Aug. 31; Gaz. vol. 217; p. 1373.
- Turnbull, Thomas, Jr., Pittsburgh, Pa. Oil-burner. No. 1,165,468; Dec. 28; Gaz. vol. 221; p. 1079.
- Turnbull, Walter J., deceased; E. D. Turnbull and J. T. Sullivan, executors, assignors of one-half to L. Lavedan, New Orleans, La. Endless carrier. No. 1,140,923; May 25; Gaz. vol. 214; p. 1235.
- Turnbull, William N., *et al.* (See Hammond, John W. and P. M., assignors.)
- Turner, Alfred L., *et al.* (See McGee, James H., assignor.)
- Turner, Arnold, Danbury, Conn. Pouncing-pad. No. 1,139,928; May 18; Gaz. vol. 214; p. 849.
- Turner, Arnold, Danbury, Conn. Hat-pouncing machine. No. 1,139,929; May 18; Gaz. vol. 214; p. 850.
- Turner, Charles. (See Flanagan, Denis, assignor.)
- Turner, Charles A., Statesville, N. C. Pipe, cigar or cigarette holder. No. 1,142,998; June 15; Gaz. vol. 215; p. 746.
- Turner, Charles H., assignor to Osgood Bradley Car Company, Worcester, Mass. Car door and step mechanism. No. 1,164,239; Dec. 14; Gaz. vol. 221; p. 569.
- Turner, Charles W., New York, N. Y. Distilling hydrocarbon-oil. No. 1,151,422; Aug. 24; Gaz. vol. 217; p. 1254.
- Turner, Claude A. P., Minneapolis, Minn. Reinforced-concrete slab construction. No. 1,131,019; Mar. 9; Gaz. vol. 212; p. 444.
- Turner, Claude A. P., assignor to C. A. P. Turner Company, Minneapolis, Minn. Column-reinforcement and making the same. No. 1,159,297; Nov. 2; Gaz. vol. 220; p. 309.
- Turner, Clellie E., *et al.* (See Kliber, William C., assignor.)

- Turner & Co., Archibald. (See Pegg, William G., assignor.)
- Turner, Edgar N., Logan, Ohio. Grout-carrier. No. 1,144,160; June 22; Gaz. vol. 215; p. 1177.
- Turner, Edgar N., Logan, Ohio. Grout-carrier. No. 1,161,363; Nov. 23; Gaz. vol. 220; p. 1174.
- Turner, Edward P., Philadelphia, Pa. Corn-cutter. No. 1,127,548; Feb. 9; Gaz. vol. 211; p. 349.
- Turner, Ernest G., Philadelphia, Pa. Torsion-meter. No. 1,135,741; Apr. 13; Gaz. vol. 213; p. 630.
- Turner, Ernest G., assignor of one-half to L. D. Lovekin, Philadelphia, Pa. Friction-clutch and means for operating same. No. 1,141,670; June 1; Gaz. vol. 215; p. 207.
- Turner, Ernest J., Pittsburgh, and B. H. Howard, Aspinwall, Pa. Adjustable feeder for standard ingot-molds. No. 1,149,228; Aug. 10; Gaz. vol. 217; p. 366.
- Turner, Eugene F., Memphis, Tenn. Envelop. No. 1,124,677; Jan. 12; Gaz. vol. 210; p. 562.
- Turner, Forest B., Huntington Beach, Cal. Detector. No. 1,128,552; Feb. 16; Gaz. vol. 211; p. 750.
- Turner, Frank L., et al. (See Murrey, Ed, assignor.)
- Turner, Frank M., and J. Dahlstrom, Pittsburgh, Pa. Device for adjusting car-couplings. No. 1,151,228; Aug. 24; Gaz. vol. 217; p. 1191.
- Turner, George, et al. (See Dawson, Robert C., assignor.)
- Turner, George F., Mahoningtown, Pa. Crate or box. No. 1,135,866; Apr. 13; Gaz. vol. 213; p. 675.
- Turner, George W., Minneapolis, Minn. Tub-seat. No. 1,139,824; May 18; Gaz. vol. 214; p. 813.
- Turner, Harmon, New Brookland, S. C. Poison-bottle. No. 1,141,369; June 1; Gaz. vol. 215; p. 101.
- Turner, Harry. (See Kandle, Matthias M., assignor.)
- Turner, Harry W., Glenville, N. Y., assignor to General Electric Company. Commutator. No. 1,157,912; Oct. 26; Gaz. vol. 219; p. 1022.
- Turner, Henry, Richmond, Va. Pad for packing tobacco and making the same. No. 1,125,771; Jan. 19; Gaz. vol. 210; p. 988.
- Turner, Henry H., Northfield, Minn. Chair. No. 1,156,725; Oct. 12; Gaz. vol. 219; p. 513.
- Turner, Hiram D., Manchester, N. H. Lap-stand. No. 1,144,161; June 22; Gaz. vol. 215; p. 1177.
- Turner, Hubert S., San Diego, Cal. Telephone system. No. 1,128,262; Feb. 9; Gaz. vol. 211; p. 600.
- Turner, Hubert S., San Diego, Cal. Service-meter system for telephone-exchanges. No. 1,147,347; July 20; Gaz. vol. 216; p. 869.
- Turner, James R., Chicago, Ill. Temporary binder. No. 1,132,230; Mar. 16; Gaz. vol. 212; p. 907.
- Turner, James R., Chicago, Ill. Temporary binder. No. 1,132,231; Mar. 16; Gaz. vol. 212; p. 907.
- Turner, Jesse W., Kirksville, Mo. Multiple-chamber pneumatic tire. No. 1,154,817; Sept. 28; Gaz. vol. 218; p. 958.
- Turner, John A., Mobile, Ala. Spring-bolster bearing for car-trucks. No. 1,141,436; June 1; Gaz. vol. 215; p. 126.
- Turner, John C., assignor to The Schieble Toy & Novelty Company, Dayton, Ohio. Stamped inertia unit. No. 1,165,919; Dec. 28; Gaz. vol. 221; p. 1237.
- Turner, John W., assignor of one-third to A. O. Dunlap and one-third to J. D. Jones, Wilkes-Barre, Pa. Machine for embossing printed matter. No. 1,149,308; Aug. 10; Gaz. vol. 217; p. 396.
- Turner, Joseph F., Danville, Va. Dental fulcrum-forceps. No. 1,147,580; July 20; Gaz. vol. 216; p. 952.
- Turner, Kelley M., Jamaica, N. Y., assignor to General Acoustic Company. Stethoscope. No. 1,147,282; July 20; Gaz. vol. 216; p. 846.
- Turner, Newton H., Royersford, Pa. Ladder. No. 1,162,000; Nov. 30; Gaz. vol. 220; p. 1441.
- Turner, Ora N., assignor to Bay State Metal Wheel Company, Templeton, Mass. Perambulator. No. 1,140,085; May 18; Gaz. vol. 214; p. 906.
- Turner, Oscar J., Minneapolis, Minn. Can-opener. No. 1,166,022; Dec. 28; Gaz. vol. 221; p. 1272.
- Turner, Robert C. (See Townsend and Turner.)
- Turner, S. W. (See Wellensiek, Louis H., assignor.)
- Turner, Samuel W., London, England, assignor to Yost Writing Machine Company, Ithaca, N. Y. Type-writing machine. No. 1,124,557; Jan. 12; Gaz. vol. 210; p. 518.
- Turner Tanning Machinery Company, The. (See Brophy and Roche, assignors.)
- Turner Tanning Machinery Company, The. (See Broughton, Winn E., assignor.)
- Turner, Thomas G., New York, N. Y. Means for cleaning boilers. No. 1,159,625; Nov. 9; Gaz. vol. 220; p. 458.
- Turner, Walter V. (See Dewson and Turner.)
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Empty and load brake apparatus. No. 1,125,215; Jan. 19; Gaz. vol. 210; p. 789.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Sanding device. No. 1,126,918; Feb. 2; Gaz. vol. 211; p. 89.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic train-brake-control apparatus. No. 1,129,319; Feb. 23; Gaz. vol. 211; p. 1054.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Automatic train-brake-control apparatus. No. 1,130,447; Mar. 2; Gaz. vol. 212; p. 212.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake for locomotives. No. 1,130,448; Mar. 2; Gaz. vol. 212; p. 212.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,130,449; Mar. 2; Gaz. vol. 212; p. 213.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,130,450; Mar. 2; Gaz. vol. 212; p. 213.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Stop-cock handle. No. 1,131,177; Mar. 9; Gaz. vol. 212; p. 497.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Triple-valve device for fluid-pressure brakes. No. 1,131,178; Mar. 9; Gaz. vol. 212; p. 497.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,131,179; Mar. 9; Gaz. vol. 212; p. 498.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Triple-valve device. No. 1,131,180; Mar. 9; Gaz. vol. 212; p. 498.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Device for graduating the release of the brakes. No. 1,131,181; Mar. 9; Gaz. vol. 212; p. 498.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Steam-pump device. No. 1,131,182; Mar. 9; Gaz. vol. 212; p. 499.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Load brake apparatus. No. 1,131,967; Mar. 16; Gaz. vol. 212; p. 810.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Electropneumatic brake. No. 1,131,968; Mar. 16; Gaz. vol. 212; p. 810.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,131,969; Mar. 16; Gaz. vol. 212; p. 811.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,131,970; Mar. 16; Gaz. vol. 212; p. 811.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,131,972; Mar. 16; Gaz. vol. 212; p. 812.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,133,339; Mar. 30; Gaz. vol. 212; p. 1393.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,133,340; Mar. 30; Gaz. vol. 212; p. 1394.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Retarded-release triple-valve device. No. 1,134,424; Apr. 6; Gaz. vol. 213; p. 124.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Retarded-release triple-valve device. No. 1,134,425; Apr. 6; Gaz. vol. 213; p. 124.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,134,426; Apr. 6; Gaz. vol. 213; p. 125.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,136,061; Apr. 20; Gaz. vol. 213; p. 782.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,136,062; Apr. 20; Gaz. vol. 213; p. 783.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Triple-valve device. No. 1,136,063; Apr. 20; Gaz. vol. 213; p. 783.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Relief-valve device. No. 1,139,602; May 18; Gaz. vol. 214; p. 734.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Blow-out device for electric-pump governors. No. 1,141,158; June 1; Gaz. vol. 215; p. 24.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Control-valve device for fluid-pressure brakes. No. 1,141,159; June 1; Gaz. vol. 215; p. 24.

Alphabetical list of patentees—Continued.

- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,142,860; June 15; Gaz. vol. 215; p. 697.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,143,334; June 15; Gaz. vol. 215; p. 865.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Brake-control valve. No. 1,145,044; July 6; Gaz. vol. 216; p. 25.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Emergency-valve device. No. 1,145,045; July 6; Gaz. vol. 216; p. 26.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. No. 1,153,275; Sept. 14; Gaz. vol. 218; p. 359.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,159,434; Nov. 9; Gaz. vol. 220; p. 389.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Control-valve device. No. 1,160,468; Nov. 16; Gaz. vol. 220; p. 807.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Selecting-valve device. No. 1,162,825; Dec. 7; Gaz. vol. 221; p. 33.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,162,826; Dec. 7; Gaz. vol. 221; p. 33.
- Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake apparatus. No. 1,165,639; Dec. 28; Gaz. vol. 221; p. 1141.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,129,318; Feb. 23; Gaz. vol. 211; p. 1053.
- Turner, Walter V., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake mechanism. No. 1,131,971; Mar. 16; Gaz. vol. 212; p. 812.
- Turner, Walter V., and P. H. Donovan, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-pipe vent-valve. No. 1,125,214; Jan. 19; Gaz. vol. 210; p. 788.
- Turner, Walter V., and P. H. Donovan, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-pipe vent-valve device. No. 1,133,341; Mar. 30; Gaz. vol. 212; p. 1394.
- Turner, William C. (See Foster, Turner, Bennett, and Linn.)
- Turney, Eugene T., New York, N. Y. Rectifying-detector for wireless systems. No. 1,144,399; June 29; Gaz. vol. 215; p. 1288.
- Turney, Eugene T., assignor, by mesne assignments, to American Player Action Company, New York, N. Y. Pneumatic player. No. 1,123,627; Jan. 5; Gaz. vol. 210; p. 147.
- Turney, Eugene T., New York, N. Y., assignor to American Player Action Company. Damper mechanism for player-pianos or the like. No. 1,125,217; Jan. 19; Gaz. vol. 210; p. 789.
- Turney, Eugene T., assignor, by mesne assignments, to American Player Action Company, New York, N. Y. Tempo-controller for piano-players. No. 1,131,183; Mar. 9; Gaz. vol. 212; p. 499.
- Turney, Eugene T., Rock Island, assignor to Artista Piano Player Co., Milan, Ill. Support for musical-instrument motors. No. 1,125,216; Jan. 19; Gaz. vol. 210; p. 789.
- Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Playing attachment for musical instruments. No. 1,131,878; Mar. 16; Gaz. vol. 212; p. 778.
- Turney, George W. (See Sahlin, Henning G., assignor.)
- Turnquist, Carl E., and H. E. Rich, Moline, Ill., assignors to The Postal Card Vending Machine Company. Vending-machine. No. 1,157,650; Oct. 19; Gaz. vol. 219; p. 865.
- Turon, Peter, Los Angeles, Cal. Universal shaft-coupling. No. 1,155,629; Oct. 5; Gaz. vol. 219; p. 105.
- Turpen, Aaron G., Modisto, Cal. Automatic train-stop. No. 1,141,023; May 25; Gaz. vol. 214; p. 1267.
- Turtle-Back Log Bunk & Car Stake Company. (See Libby, Frederick J., assignor.)
- Turzik, Paul. (See Krna and Turzik.)
- Tuseth, Charles J., Osseo, Minn. Flow attachment. No. 1,164,147; Dec. 14; Gaz. vol. 221; p. 540.
- Tussing, Elza T. (See Tussing, Jacob G. and E. T.)
- Tussing, Jacob G. and E. T., Columbus, Ohio. Fishing-bob. No. 1,163,285; Dec. 7; Gaz. vol. 221; p. 192.
- Tust, Paul. (See Thomaschewski and Tust.)
- Tust, Paul, Vohwinkel, near Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Alumina color-lakes. No. 1,126,591; Jan. 26; Gaz. vol. 210; p. 1317.
- Tutelman, William, Philadelphia, Pa. Adjustable sleeve. No. 1,157,265; Oct. 19; Gaz. vol. 219; p. 735.
- Tuteur, Charles, assignor to Stork-Tuteur Company, New York, N. Y. Frame for sash-pulleys. No. 1,142,999; June 15; Gaz. vol. 215; p. 746.
- Tuteur, Julius, Cleveland, Ohio. Beam-end protector and anchorage. No. 1,137,099; Apr. 27; Gaz. vol. 213; p. 1189.
- Tutt, John C., St. Paul, Minn. Roller-coaster skate. No. 1,138,263; May 4; Gaz. vol. 214; p. 189.
- Tuttle, Arnold D., Washington, D. C. Combined applicator, container, and swab. No. 1,131,575; Mar. 2; Gaz. vol. 212; p. 634.
- Tuttle, Arnold D., and J. G. Duncan, Washington, D. C. Wrench. No. 1,162,529; Nov. 30; Gaz. vol. 220; p. 1625.
- Tuttle, Daniel M., assignor to S. S. Tuttle, Canastota, N. Y. Internal-combustion engine. No. 1,127,322; Feb. 2; Gaz. vol. 211; p. 229.
- Tuttle, George M. (See Bliss and Johnston, assignors.)
- Tuttle, Henry A., Taunton, Mass. Clutch for reversing-gearing. No. 1,140,346; May 18; Gaz. vol. 214; p. 996.
- Tuttle, James N., Harwichport, Mass., assignor to General Electric Company. Electrolytic meter. No. 1,156,826; Oct. 12; Gaz. vol. 219; p. 547.
- Tuttle, James W., assignor to Sinclair-Scott Company, Baltimore, Md. Pen-grader. No. 1,147,283; July 20; Gaz. vol. 216; p. 846.
- Tuttle, John W. (See Tuttle, Ralph V. and J. W.)
- Tuttle, Lauren T., Sonoma county, Cal. Automatic advertising-display machine. No. 1,144,621; June 29; Gaz. vol. 215; p. 1362.
- Tuttle, Ralph V., Pomeroy, Wash. Developing-cabinet. No. 1,132,808; Mar. 23; Gaz. vol. 212; p. 1168.
- Tuttle, Ralph V., and J. W. Pomeroy, Wash. Safety-envelop. No. 1,136,850; Apr. 20; Gaz. vol. 213; p. 1063.
- Tuttle, Stella S. (See Tuttle, Daniel M., assignor.)
- Tuttle, Washington I., assignor to Tin Decorating Company of Baltimore, Baltimore, Md. Supplemental cover for boxes. No. 1,153,276; Sept. 14; Gaz. vol. 218; p. 359.
- Twaddle, Hugh W., New Rochelle, N. Y. Glue-pot. No. 1,161,551; Nov. 23; Gaz. vol. 220; p. 1240.
- Twaits, Daniel H., Chicago, Ill. Self-lubricating spring-bolt. No. 1,154,947; Sept. 28; Gaz. vol. 218; p. 1002.
- Twaits, Daniel H., Chicago, Ill. Self-lubricating bolt. No. 1,155,111; Sept. 28; Gaz. vol. 218; p. 1060.
- Twaits, Daniel H., Chicago, Ill. Self-closing oil-cup. No. 1,156,114; Oct. 12; Gaz. vol. 219; p. 301.
- Twaits, Daniel H., Chicago, Ill. Grease-cup. No. 1,161,269; Nov. 23; Gaz. vol. 220; p. 1140.
- Tweddell, Oscar G., et al. (See Bartley, George B., assignor.)
- Tweed, Frederick H. (See Duffy, Charles H., assignor.)
- Tweeddale, Francis D. (See Ferran and Tweeddale.)
- Tweedle, Charles, Jefferson City, Mo. Boot-top. No. 1,153,977; Sept. 21; Gaz. vol. 218; p. 642.
- Tweedy, Eddie C. (See Hunter and Tweedy.)
- Twentieth Century Machinery Co. (See Beutlich, Richard F., assignor.)
- Twibell, Harry C., Brooklyn, N. Y. Drip-pan signal. No. 1,123,819; Jan. 5; Gaz. vol. 210; p. 212.
- Twibell, Harry C., Brooklyn, N. Y. Game apparatus. No. 1,157,913; Oct. 26; Gaz. vol. 219; p. 1023.
- Twigg, John F., San Francisco, Cal. Self-starting and reversible internal-combustion engine. No. 1,136,381; Apr. 20; Gaz. vol. 213; p. 896.
- Twinplex Manufacturing Company. (See Floyd, George G., assignor.)
- Twist, Earl. (See Jacobs and Twist.)
- Twitchell, Charles R. (See Bell, Twitchell, and Palmer.)
- Twitchell, James A., et al. (See Hyle, Jacob A., assignor.)
- Twombly Motors Company. (See Twombly, Willard I., assignor.)
- Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Motor-vehicle. No. 1,126,592; Jan. 26; Gaz. vol. 210; p. 1317.
- Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Internal-combustion engine. No. 1,131,296; Mar. 9; Gaz. vol. 212; p. 533.
- Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Convertible vehicle-body. No. 1,157,266; Oct. 19; Gaz. vol. 219; p. 726.
- Twombly, Willard I., assignor to Twombly Motors Company, New York, N. Y. Flying-machine. No. 1,165,043; Dec. 21; Gaz. vol. 221; p. 892.
- Twyford, Robert E., South Houston, Tex. Driving-gearing for motor-vehicles. No. 1,136,382; Apr. 20; Gaz. vol. 213; p. 897.
- Tyberg, Oluf, Point Loma, Cal., assignor to International Cigar Machinery Company, New York, N. Y. Cigar-machine. No. 1,134,246; Apr. 6; Gaz. vol. 213; p. 60.
- Tyden, Einar O. E. (See Appelqvist and Tyden.)
- Tyden, Emil, Evanston, Ill. Seal and mount. No. 1,128,803; Feb. 16; Gaz. vol. 211; p. 836.
- Tyden, Emil, Evanston, Ill. Mouthpiece-seal lock for cans and the like. No. 1,145,099; July 6; Gaz. vol. 216; p. 45.

- Tyden, Emil, Evanston, Ill. Self-locking seal. No. 1,146,462; July 13; Gaz. vol. 216; p. 543.
- Tyden, Emil, Evanston, Ill. Seal-locked liquid-holding vessel. No. 1,146,463; July 13; Gaz. vol. 216; p. 543.
- Tyden, Emil, Evanston, Ill. Seal-locking device. No. 1,155,768; Oct. 5; Gaz. vol. 219; p. 153.
- Tyden, Emil, Evanston, Ill. Seal-locking device. No. 1,155,769; Oct. 5; Gaz. vol. 219; p. 154.
- Tyden, Emil, Evanston, Ill. Seal-locking device. No. 1,155,770; Oct. 5; Gaz. vol. 219; p. 154.
- Tyden, Emil, Evanston, Ill. Seal-locking device. No. 1,155,771; Oct. 5; Gaz. vol. 219; p. 155.
- Tyden, Emil, Evanston, Ill. Seal-locking device. No. 1,155,772; Oct. 5; Gaz. vol. 219; p. 155.
- Tyden, Emil, Evanston, Ill. Self-locking seal. No. 1,162,827; Dec. 7; Gaz. vol. 221; p. 34.
- Tydings, Millard F., Havre de Grace, Md. Vehicle-wheel. No. 1,151,423; Aug. 24; Gaz. vol. 217; p. 1254.
- Tyer Rubber Company. (See Hilton, Everett C., assignor.)
- Tyler, Aaron J., Rochester, N. Y. Pneumatic coupling. No. 1,166,415; Dec. 28; Gaz. vol. 221; p. 1416.
- Tyler, Aaron J., assignor of two-thirds to H. L. Bidelman, Rochester, N. Y. Pneumatic pump. No. 1,139,930; May 18; Gaz. vol. 214; p. 850.
- Tyler, Aaron J., assignor of two-thirds to H. L. Bidelman, Rochester, N. Y. Pneumatic valve. No. 1,140,634; May 25; Gaz. vol. 214; p. 1133.
- Tyler, Alexander, *et al.* (See Rundquist, William, assignor.)
- Tyler, Charles A., Auburn, assignor to National Chemical Company, Syracuse, N. Y. Treating starch. No. 1,157,738; Oct. 26; Gaz. vol. 219; p. 962.
- Tyler, Clarence E., Newark, N. J., assignor to S. E. T. Valve & Hydrant Company, New York, N. Y. Road-box cover. No. 1,165,044; Dec. 21; Gaz. vol. 221; p. 893.
- Tyler, Clifford M., Brookline, Mass. Damper. No. 1,147,201; July 20; Gaz. vol. 216; p. 820.
- Tyler, Lewis L. (See Shields and Tyler.)
- Tyler, Lucius S., Boston, Mass. Dust-pan. No. 1,161,087; Nov. 23; Gaz. vol. 220; p. 1073.
- Tyler, Ralph G., Exeter, N. H. Golf-club. No. 1,139,738; May 18; Gaz. vol. 214; p. 783.
- Tyler, William A., Dalsy, Wash. Extension step-ladder. No. 1,157,739; Oct. 26; Gaz. vol. 219; p. 962.
- Tyler, William C. (See Nail and Tyler.)
- Tyler, William H. (See Davies and Bemen, assignors.)
- Tyler, William S., Newark, N. J. Coupling. No. 1,162,417; Nov. 30; Gaz. vol. 220; p. 1585.
- Tynan, Henry J., Paterson, N. J. Shaft-shield. No. 1,153,467; Sept. 14; Gaz. vol. 218; p. 429.
- Typewriter Speed Key Company. (See Hotson, John H., assignor.)
- Typograph Gesellschaft m. b. H. (See Dorneth, Julius, assignor.)
- Tyce, Walter P., Jr., Lynchburg, Va. Flue-protector. No. 1,127,323; Feb. 2; Gaz. vol. 211; p. 230.
- Tyrrell, Charles A., New York, N. Y. Rectal syringe. No. 1,155,848; Oct. 5; Gaz. vol. 219; p. 183.
- Tyrrell, Warren A., assignor of one-half to C. C. Nichols, St. Louis, Mo. Convertible table and truck. No. 1,144,622; June 29; Gaz. vol. 215; p. 1362.
- Tyson, Frank, Canton, Ohio. Valve for bottle-filling machines. No. 1,136,740; Apr. 20; Gaz. vol. 213; p. 1025.
- Tyson, Frank and W. G., Canton, Ohio. Thermostatic heat-controlling device. No. 1,131,444; Mar. 9; Gaz. vol. 212; p. 591.
- Tyson, George T., Harrisburg, Pa. Safety tap and die holder. No. 1,126,919; Feb. 2; Gaz. vol. 211; p. 89.
- Tyson, William G. (See Tyson, Frank and W. G.)
- Tysse, Hans C., assignor of one-half to A. C. Christenson, Manistee, Mich. Cushion-innersole. No. 1,132,132; Mar. 16; Gaz. vol. 212; p. 870.
- Tyszkowski, John. (See Sardynski and Tyszkowski.)
- U. S. Bobbin & Shuttle Company. (See Allen, Robert N., assignor.)
- U. S. Bobbin & Shuttle Company. (See Baldwin and Anderson, assignors.)
- U. S. Cloth Cutting Machine Co., The. (See Zawistowski, Perlman, and Komow, assignors.)
- U. S. Fiber Bottle Machinery Company. (See Janisch, Maximilian P., assignor.)
- U. S. Hame Company. (See Carr, Robert P., assignor.)
- U. S. Light and Heat Corporation. (See Bliss, William L., assignor.)
- U. S. Manufacturers' Distributing Company. (See Murphy and Redner, assignors.)
- U. S. Slicing Machine Company. (See Foight and Newell, assignors.)
- U. S. Slicing Machine Company. (See Goodfellow, Herbert R., assignor.)
- U. S. Slicing Machine Company. (See Stukart, Hendrik, assignor.)
- U. S. Steel Furniture Company. (See Ohnstrand, Enoch, assignor.)
- Ubelaker, Joseph, *et al.* (See Zaar, Ludwig W., assignor.)
- Ubelaker, Joseph H., Chicago, Ill. Self-cleaning rake. No. 1,155,174; Sept. 28; Gaz. vol. 218; p. 1083.
- Ubelaker, Joseph H., and R. A. Kraschek, Chicago, Ill. Household utensil. No. 1,158,591; Nov. 3; Gaz. vol. 220; p. 64.
- Ubezzi, Francesco V., assignor to Transcontinental Wheel Co., Inc., New York, N. Y. Vehicle-wheel. No. 1,144,879; June 29; Gaz. vol. 215; p. 1453.
- Ubezzi, Francesco V., assignor to Transcontinental Wheel Co., New York, N. Y. Vehicle wheel-tire. No. 1,165,145; Dec. 21; Gaz. vol. 221; p. 930.
- Uchtmann, Weet R., assignor of one-half to O. M. Dahl, Boston, Mass. Bottle-seal. No. 1,155,773; Oct. 5; Gaz. vol. 219; p. 155.
- Udale, Stanley M., Detroit, Mich. Carburetor. No. 1,145,824; July 6; Gaz. vol. 216; p. 297.
- Ude, William C., West Haven, Conn. Means for controlling telephone-circuits. No. 1,145,632; July 6; Gaz. vol. 216; p. 229.
- Udell, Louis N., St. Louis, Mo. Paper-fastener. No. 1,164,685; Dec. 21; Gaz. vol. 221; p. 768.
- Uebel, Carl, Heidelberg, Germany. Manufacture of nitric acid. No. 1,141,994; June 8; Gaz. vol. 215; p. 354.
- Uebelmesser, Charles R., assignor, by mesne assignments, to American Standard Motion Picture Machine Company, Inc., New York, N. Y. Winding apparatus. No. 1,145,633; July 6; Gaz. vol. 216; p. 230.
- Uebler, William J., West Schuyler, N. Y. Milking-machine. No. 1,126,920; Feb. 2; Gaz. vol. 211; p. 90.
- Ufford, Charles A., Boston, Mass. Adjustable dress-form. No. 1,127,946; Feb. 9; Gaz. vol. 211; p. 491.
- Ufford, Charles A., Boston, Mass. Expandable dress-form. No. 1,165,045; Dec. 21; Gaz. vol. 221; p. 893.
- Uffand, Harry, *et al.* (See Carmody, Harold J., assignor.)
- Ugdon, Claudius, Paterson, N. J. Expanding-roller. No. 1,140,546; May 25; Gaz. vol. 214; p. 1104.
- Uhe, Herman, Sarpy county, Nebr. Hay-fork. No. 1,149,480; Aug. 10; Gaz. vol. 217; p. 456.
- Uhl, Robert, Munich, Germany. Preparation of soluble heavy metal compounds of thio-protein bodies. No. 1,145,634; July 6; Gaz. vol. 216; p. 230.
- Uhlein, John C., Watertown, N. Y. Non-refillable bottle. No. 1,124,977; Jan. 12; Gaz. vol. 210; p. 668.
- Uhlemann, Richard H., Chicago, Ill. Lens-notching machine. No. 1,133,515; Mar. 30; Gaz. vol. 212; p. 1456.
- Uhlemann, William R., Chicago, Ill. Cement for eye-glass mountings. No. 1,137,366; Apr. 27; Gaz. vol. 213; p. 1288.
- Uhlig, Ernst and K. Bauch, Gera-Untermhans, Germany. Chuck. No. 1,154,898; Sept. 28; Gaz. vol. 218; p. 985.
- Uhlinger, Roy H. (See Brownlee and Uhlinger.)
- Uhlrig, Herman, Wamego, Kans. Gopher-trap. No. 1,132,697; Mar. 23; Gaz. vol. 212; p. 1125.
- Uhlrig, Herman, Wamego, Kans. Steering mechanism for tractors. No. 1,162,418; Nov. 30; Gaz. vol. 220; p. 1585.
- Uhrbrock, Richard H., Towson, Md. Wire-supporting device. No. 1,164,558; Dec. 14; Gaz. vol. 221; p. 683.
- Ujhazi, Imre, Osaka, Va. Artificial building composition. No. 1,141,591; June 1; Gaz. vol. 215; p. 180.
- Ukena, John C., Golden City, Mo. Motion-transmitting mechanism. No. 1,132,809; Mar. 23; Gaz. vol. 212; p. 1168.
- Ulbrich, August, Charlottenburg, assignor to Julius Pintsch Aktiengesellschaft, Berlin, Germany. Railway-carriage-lighting system. No. 1,150,465; Aug. 17; Gaz. vol. 217; p. 870.
- Ulbricht, John H. (See Holthaus and Ulbricht.)
- Ulch, Albert, Chelsea, Iowa. Gate-operating means. No. 1,148,638; Aug. 3; Gaz. vol. 217; p. 56.
- Ulery, Cloyde B., Garrett, Ind. Mail-box signal. No. 1,141,024; May 25; Gaz. vol. 214; p. 1268.
- Ulerts, Behrend, Lakefield, Minn. Safety device for aeroplanes. No. 1,135,561; Apr. 13; Gaz. vol. 213; p. 567.
- Ulery, C. L., *et al.* (See Minsker, Charles A., assignor.)
- Ulrich, Marie, Zurich, Switzerland. Nose-former. No. 1,141,592; June 1; Gaz. vol. 215; p. 180.
- Ullin, Carl G., Seattle, Wash. Submarine vessel. No. 1,125,772; Jan. 19; Gaz. vol. 210; p. 988.
- Ullin, Carl G., Seattle, Wash. Submarine life-saving appliance. No. 1,128,553; Feb. 16; Gaz. vol. 211; p. 750.
- Ulrich, Emil H. W., Chicago, Ill. Receptacle. No. 1,134,427; Apr. 6; Gaz. vol. 213; p. 125.
- Ulrich, Georg, Magdeburg, assignor to Fried. Krupp Aktiengesellschaft, Grusonwerk, Magdeburg-Buckau, Germany. Magnetic separator. No. 1,129,822; Feb. 23; Gaz. vol. 211; p. 1225.
- Ulrich, Georg, Magdeburg, assignor to Fried. Krupp Aktiengesellschaft, Grusonwerk, Magdeburg-Buckau, Germany. Magnetic separator. No. 1,130,648; Mar. 2; Gaz. vol. 212; p. 282.
- Ulrich, William F., Warren, Pa. Fountain-pen. No. 1,130,944; Mar. 9; Gaz. vol. 212; p. 418.
- Ulmer, Victor, Roshelm, Germany, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Nuremberg, Germany. Cooling means for internal-combustion engines. No. 1,123,431; Jan. 5; Gaz. vol. 210; p. 80.
- Ulrich, Charles B., Houghton, Mich. Vertical file. No. 1,126,921; Feb. 2; Gaz. vol. 211; p. 90.
- Ulrich, Charles B., Houghton, Mich. File. No. 1,126,922; Feb. 2; Gaz. vol. 211; p. 90.
- Ulrich, Charles B., Houghton, Mich. File. No. 1,126,923; Feb. 2; Gaz. vol. 211; p. 91.
- Ulrich, Charles B., Wausau, Wis. Drafting-board. No. 1,147,908; July 27; Gaz. vol. 216; p. 1093.
- Ulrich, Charles B., Houghton, Mich. Index-tag. No. 1,157,195; Oct. 19; Gaz. vol. 219; p. 708.

Alphabetical list of patentees—Continued.

- Ulrich, John W., New Ulm, Minn. Automobile engine-starter. No. 1,145,529; July 6; Gaz. vol. 216; p. 194.
- Ulrich, Gerardus J., Dusseldorf-Grafenberg, Germany. Steam-purifier. No. 1,147,463; July 20; Gaz. vol. 216; p. 912.
- Ulven, Christian, St. Paul, assignor to Minneapolis Iron Store Company, Minneapolis, Minn. Flexible spring-coupling. No. 1,130,219; Mar. 2; Gaz. vol. 212; p. 131.
- Ulysse, Pierre, Marseille, France. Natural-color cinematography. No. 1,161,910; Nov. 30; Gaz. vol. 220; p. 1410.
- Umanoff, David, New York, N. Y. Temporary binder. No. 1,159,135; Nov. 2; Gaz. vol. 220; p. 250.
- Umbarger, Albert R., assignor of one-half to A. A. Tritt, Walton, Ind. Gas-saving appliance. No. 1,142,779; June 8; Gaz. vol. 215; p. 630.
- Umberger, Samuel T., Gloster, Miss. Nut-lock. No. 1,145,100; July 6; Gaz. vol. 216; p. 46.
- Umphryes, Ephraim S., Macomb, Ill. Gate. No. 1,131,184; Mar. 9; Gaz. vol. 212; p. 500.
- Umstätter, John, New York, N. Y. Fish-trap. No. 1,134,428; Apr. 6; Gaz. vol. 213; p. 125.
- Umsted, Franklin A. (See Brooke, Thomas P., assignor.)
- Unbehaun, John J., Deshler, Nebr. Photographic apparatus. No. 1,149,157; Aug. 3; Gaz. vol. 217; p. 236.
- Uncles, Henry W., New York, N. Y. Carbureter. No. 1,143,092; June 15; Gaz. vol. 215; p. 780.
- Under-Feed Stoker Company of America. (See Kenney, William J., assignor.)
- Under-Feed Stoker Company of America, The. (See Kenney and Grohn, assignors.)
- Underhill, Charles R. (See Kemble and Underhill.)
- Underhill, Charles R., assignor to The Acme Wire Company, New Haven, Conn. Winding-machine. No. 1,140,924; May 25; Gaz. vol. 214; p. 1235.
- Underhill, Charles R., assignor to The Acme Wire Company, New Haven, Conn. Winding-machine. No. 1,143,335; June 15; Gaz. vol. 215; p. 865.
- Underhill, Charles R., assignor to The Acme Wire Co., New Haven, Conn. Machine for producing electrical coils. No. 1,160,469; Nov. 16; Gaz. vol. 220; p. 808.
- Underhill, Charles R., New Haven, Conn., assignor to Underhill Telegraph Translator Company, Jersey City, N. J. System of electrical signaling. No. 1,149,874; Aug. 10; Gaz. vol. 217; p. 599.
- Underhill, George H., Boston, Mass. Sound reproducing or recording machine. No. 1,141,672; June 1; Gaz. vol. 215; p. 208.
- Underhill, George H., Boston, Mass. Phonograph. No. 1,158,750; Nov. 2; Gaz. vol. 220; p. 119.
- Underhill Telegraph Translator Company. (See Underhill, Charles R., assignor.)
- Underhill, Walter A., assignor to The Eagle Wagon Works, Auburn, N. Y. Brake for wagons. No. 1,136,851; Apr. 20; Gaz. vol. 213; p. 1063.
- Underhill, Walter A., and C. C. Avery, assignors to The Eagle Wagon Works, Auburn, N. Y. Vehicle train-coupling. No. 1,150,466; Aug. 17; Gaz. vol. 217; p. 871.
- Underhill, William P., East Rochester, N. Y. Rolling window-screen. No. 1,151,424; Aug. 24; Gaz. vol. 217; p. 1255.
- Underseller Company, The. (See Miller, Clifford G., assignor.)
- Underwood, Brooks, Birmingham, Ala. Extension carpet. No. 1,140,547; May 25; Gaz. vol. 214; p. 1104.
- Underwood, Charles W., assignor of one-half to W. M. Egan, Crowley, La. Microphone. No. 1,136,449; Apr. 20; Gaz. vol. 213; p. 921.
- Underwood Computing Machine Company. (See Carlin, Samuel E., assignor.)
- Underwood Computing Machine Company. (See Degener, Gustave O., assignor.)
- Underwood Computing Machine Company. (See Degener and Davidson, assignors.)
- Underwood Computing Machine Company. (See Wright, Walter, assignor.)
- Underwood, Frank B., assignor of one-half to F. E. Heylmann, Noblesville, Ind. Sten-ladder. No. 1,151,740; Aug. 31; Gaz. vol. 217; p. 1410.
- Underwood, George T. (See Underwood, John K., J. B., and G. T.)
- Underwood, John B. (See Underwood, John K., J. B., and G. T.)
- Underwood, John K., J. B., and G. T., Syracuse, Kans. Ploving-machine. No. 1,124,558; Jan. 12; Gaz. vol. 210; p. 519.
- Underwood, John M., Paris, Ark. Exhaust for internal-combustion engines. No. 1,156,447; Oct. 12; Gaz. vol. 219; p. 416.
- Underwood, John T. (See Becker, Richard M., assignor.)
- Underwood, John T. (See Des Jardins, Benjamin M., assignor.)
- Underwood, John T. (See Harvey, Joseph C., assignor.)
- Underwood, John T. (See Main, Fred F., assignor.)
- Underwood, John T. (See Thornton, John N., assignor.)
- Underwood, Oliver P., Indianola, Iowa. Mechanical movement. No. 1,139,450; May 11; Gaz. vol. 214; p. 646.
- Underwood Typewriter Company. (See Bates and Kurowski, assignors.)
- Underwood Typewriter Company. (See Becker, Frank E., assignor.)
- Underwood Typewriter Company. (See Brown, Clarence H., assignor.)
- Underwood Typewriter Company. (See Cooper, John J., assignor.)
- Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
- Underwood Typewriter Company. (See Coverdell, Grover F., assignor.)
- Underwood Typewriter Company. (See Crutchley, Harry, assignor.)
- Underwood Typewriter Company. (See Dennis, Adolphus S., assignor.)
- Underwood Typewriter Company. (See Doane, John C., assignor.)
- Underwood Typewriter Company. (See Fortin, Benjamin P., assignor.)
- Underwood Typewriter Company. (See Fritze, Henry L., assignor.)
- Underwood Typewriter Company. (See Gillilan, Paul V., assignor.)
- Underwood Typewriter Company. (See Helmond, William F., assignor.)
- Underwood Typewriter Company. (See Hendrickson, Charles A., assignor.)
- Underwood Typewriter Company. (See Jones, Frank C., assignor.)
- Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
- Underwood Typewriter Company. (See Lockwood, Marquis H., assignor.)
- Underwood Typewriter Company. (See Lundeborg, Carl F., assignor.)
- Underwood Typewriter Company. (See Main, Fred F., assignor.)
- Underwood Typewriter Company. (See McCormack, Harry S., assignor.)
- Underwood Typewriter Company. (See McLaughlin, John C., assignor.)
- Underwood Typewriter Company. (See Merlin, Sidney L. W., assignor.)
- Underwood Typewriter Company. (See Mikkelsen, Harry, assignor.)
- Underwood Typewriter Company. (See Pritzl, Lorenz L., assignor.)
- Underwood Typewriter Company. (See Rennie, John A., assignor.)
- Underwood Typewriter Company. (See Roberts, Lyman R., assignor.)
- Underwood Typewriter Company. (See Roberts and Davis, assignors.)
- Underwood Typewriter Company. (See Rouillot, Victor B., assignor.)
- Underwood Typewriter Company *et al.* (See Schneeloch, August, assignor.)
- Underwood Typewriter Company. (See Shaver, James E., Jr., assignor.)
- Underwood Typewriter Company. (See Smith, Charles E., assignor.)
- Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
- Underwood Typewriter Company. (See Smith, Stephen T., assignor.)
- Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
- Underwood Typewriter Company. (See Strong, Elisha E., assignor.)
- Underwood Typewriter Company. (See Ursbruck, Frank C., assignor.)
- Underwood Typewriter Company. (See Watts, George S., assignor.)
- Underwood Typewriter Company. (See Wayrich, Alexander, assignor.)
- Underwood Typewriter Company. (See Wernery, Lester A., assignor.)
- Underwood Typewriter Company. (See Wernery and Smith, assignors.)
- Underwood Typewriter Company. (See White, Howard L., assignor.)
- Underwood Typewriter Company. (See Wissman, Henry C., assignor.)
- Underwood Typewriter Company. (See Young, Frank A., assignor.)
- Underwood and Underwood. (See Richmond, Henry E., assignor.)
- Underwood, Weeden B., assignor to American Sterilizer Company, Erie, Pa. Electric heater. No. 1,128,554; Feb. 16; Gaz. vol. 211; p. 750.
- Underwood, William T., Birmingham, Ala. Reaming-bit for prospecting-drills. No. 1,138,332; May 4; Gaz. vol. 214; p. 215.
- Unger, Ernest. (See Kremer, George, assignor.)
- Unger, Ernest, New York, N. Y. Projecting-lantern. No. 1,130,451; Mar. 2; Gaz. vol. 212; p. 213.
- Ungerer, Max F., Offenbach-on-the-Main, Germany. Obtaining photographic prints in natural colors from Lumière, autochrome, and other color-sensitive lined plates. No. 1,128,389; Feb. 16; Gaz. vol. 211; p. 692.

- Ungerm, John S., Duquesne, and A. E. Maccoun, Brad-
dock, Pa. Furnace. No. 1,124,559; Jan. 12; Gaz. vol.
210: p. 519.
- Unglaub, John A., assignor of one-half to C. L. Gustavson,
Colorado Springs, Colo. Paint composition. No.
1,129,764; Feb. 23; Gaz. vol. 211: p. 1206.
- Ungles, Lloyd A., Des Moines, Iowa. Oil-burner. No.
1,154,221; Sept. 21; Gaz. vol. 218: p. 725.
- Uni-Motion Door Handle Co. (See Akerhielm, Albert, as-
signor.)
- Uniform Dyeing Machine Co. (See Schmitz, Joseph, as-
signor.)
- Union Bag & Paper Company, The. (See Avery, True M.,
assignor.)
- Union Cap & Fuse Company, The. (See Wheeler, Plumer,
assignor.)
- Union Carbide Company. (See Becket, Frederick M., as-
signor.)
- Union Carbide Company. (See Horry, William S., as-
signor.)
- Union Carbide Company. (See Marshall, James G., as-
signor.)
- Union Cutlery & Hardware Company, The. (See Miller,
Frank B., assignor.)
- Union Draft Gear Co. (See Canfield, Lewis T., assignor.)
- Union Draft Gear Company. (See Cardwell, James R.,
assignor.)
- Union Draft Gear Company. (See Cotton, Walter H., as-
signor.)
- Union Draft Gear Company. (See Jones, Joshua J., as-
signor.)
- Union Engine and Manufacturing Company. (See Davis,
Elmer E., assignor.) (Reissue.)
- Union Envelope Company. (See Rheutan, Isaac L., as-
signor.)
- Union Fibre Company. (See Brown, Alfred G., assignor.)
- Union Fibre Company. (See Lappen, James E., assignor.)
- Union Iron Works. (See Cook, George E., assignor.)
- Union Iron Works Co. (See Michael, Walter, assignor.)
- Union Lock Stitch Company. (See Merrick, Frank W.,
assignor.)
- Union Metal Manufacturing Company, The. (See Drumm,
Herbert C., assignor.)
- Union Metal Manufacturing Company, The. (See Wiser,
Arthur B., assignor.)
- Union Metallic Cartridge Company. (See Booth, Louis
C., assignor.)
- Union Metallic Cartridge Company. (See Buell, William
H., assignor.)
- Union Metallic Cartridge Company. (See Hoaglund, Frank
O., assignor.)
- Union Metallic Cartridge Company. (See Lindsay and
Hibbard, assignors.)
- Union Metallic Cartridge Company. (See Lindsay and
Maloney, assignors.)
- Union Metallic Cartridge Company. (See Pritham, Henry
C., assignor.)
- Union Mills. (See Schremp, William R., assignor.)
- Union Oil Company of California. (See Stewart, Lyman,
assignor.)
- Union Special Machine Company. (See Berger, Joseph,
Jr., assignor.)
- Union Special Machine Company. (See Blanchard, Helen
A., assignor.)
- Union Special Machine Company. (See Foster, Charles
H., assignor.)
- Union Special Machine Company. (See Hansen, Oscar F.,
assignor.)
- Union Special Machine Company. (See Hanson, Nathan
E., assignor.)
- Union Special Machine Company. (See Hayes, John, Jr.,
assignor.)
- Union Special Machine Company. (See Hayes and Ber-
ger, assignors.)
- Union Special Machine Company. (See Hinderer, Otto A.,
assignor.)
- Union Special Machine Company. (See Hinkley, James,
assignor.)
- Union Special Machine Company. (See McNeil, Chester,
assignor.)
- Union Special Machine Company. (See Moffatt, James R.,
assignor.)
- Union Special Machine Company. (See Moffatt and Kelso,
assignors.)
- Union Special Machine Company. (See Onderdonk, Lan-
sing, assignor.)
- Union Special Machine Company. (See Seymour, Dudley
S., assignor.)
- Union Special Machine Company. (See Thompson, Reu-
ben B., assignor.)
- Union Special Machine Company. (See Van Horn, Van-
diver J., assignor.)
- Union Special Machine Company. (See Woodward, Rus-
sel G., assignor.)
- Union Special Machine Company. (See Wright, Ward E.,
assignor.)
- Union Spezial-Maschinenfabrik G. m. b. H. (See Ebert,
Friedrich, assignor.)
- Union Spezial Maschinenfabrik G. m. b. H. (See Maier,
Carl, assignor.)
- Union Spezial-Maschinenfabrik G. m. b. H. (See Wever
and Maier, assignors.)
- Union Spezial-Maschinenfabrik G. m. b. H. (See Maier,
Karl, assignor.)
- Union Steam Pump Company. (See Smith, Karl D., as-
signor.)
- Union Steel Screen Company, The. (See Pierce, James E.,
assignor.)
- Union Sulphur Company, The. (See Frascch, Herman,
assignor.)
- Union Switch & Signal Company, The. (See Ackerman,
Frank J., assignor.)
- Union Switch and Signal Company, The. (See Allen and
Scattergood, assignors.)
- Union Switch & Signal Company, The. (See Buchanan,
John P., assignor.)
- Union Switch & Signal Company. (See Coleman, John
P., assignor.)
- Union Switch & Signal Company, The. (See Gilson,
Robert M., assignor.)
- Union Switch & Signal Company, The. (See Harrington,
Clinton O., assignor.)
- Union Switch and Signal Company. (See Hawkins, Lau-
rence A., assignor.)
- Union Switch & Signal Company, The. (See Holliday,
John S., assignor.)
- Union Switch & Signal Company, The. (See Livermore,
Arthur C., assignor.)
- Union Switch & Signal Company, The. (See McCarthy,
Daniel J., assignor.)
- Union Switch & Signal Company, The. (See Mursch, Wil-
liam H., assignor.)
- Union Switch & Signal Company, The. (See Neubert and
Smith, assignors.)
- Union Switch and Signal Company, The. (See Sawyer,
Fred W., assignor.)
- Union Switch & Signal Company, The. (See Snively,
Clarence S., assignor.)
- Union Switch & Signal Company, The. (See Stevens,
Thomas S., assignor.)
- Union Switch and Signal Company, The. (See Struble,
Jacob B., assignor.)
- Union Switch & Signal Company, The. (See Taylor, John
D., assignor.)
- Union Switch & Signal Company, The. (See Utne, Per,
assignor.)
- Union Switch & Signal Company, The. (See Waldron,
James M., assignor.)
- Union Switch & Signal Company, The. (See Wallace,
Herbert A., assignor.)
- Union Switch & Signal Company, The. (See Zabel, Wil-
liam, assignor.)
- Union Tank Line Company. (See Bloxham, Charles M.,
assignor.)
- Union Wire Mattress Company. (See Powers, George G.,
assignor.)
- Union Wrapping Machine Company, The. (See Strelch,
Frank, assignor.)
- Unique Head Easer Incorporated. (See Elfenbein, Isidor,
assignor.)
- Unit Brick and Stone Company. (See Peterson, George
A., assignor.)
- Unit Weighing and Packing System, The. (See Heybach,
Frederick J., assignor.)
- United Aluminum Ingot Company. (See Mellen, Gren-
ville, assignor.)
- United Autographic Register Co. (See Ritschard, William,
assignor.)
- United Brass Manufacturing Company. (See McGivern,
Hugh J., assignor.)
- United Cigar Manufacturers Company. (See Collins, Wil-
liam G. J., assignor.)
- United Cigarette Machine Co. Ltd. (See Ewers, Alex-
ander L., assignor.)
- United Development Corporation. (See Thompson, Wil-
liam H., assignor.)
- United Electric Company, The. (See Dillon, Charles A.,
assignor.)
- United Electric Company, The. (See Tice, Andrew J.,
assignor.)
- United Engineering and Foundry Co. (See Holmes,
Thomas E., assignor.)
- United Engineering & Foundry Company. (See Biggert,
Florence C., Jr., assignor.)
- United Engineering & Foundry Company. (See Biggert
and Jones, assignors.)
- United Engineering & Foundry Company. (See Frank,
Isaac W., assignor.)
- United Engineering Works. (See Gray, Harry P., as-
signor.)
- United Engineering Works. (See Macdonald, William,
Jr., assignor.)
- United Fruit Company. (See Lee, Tennant, assignor.)
- United Gas Improvement Company. (See Evans, Owen B.,
assignor.)
- United Gas Improvement Company, The. (See Rusby,
John M., assignor.)
- United Gas Improvement Company, The. (See Serrill,
William J., assignor.)
- United Gas Improvement Company, The. (See Taussig,
John H., assignor.)
- United Gas Improvement Company, The. (See Zeek,
Charles F., assignor.)

Alphabetical list of patentees—Continued.

United Injector Company, The. (See Williston, Belvin T., assignor.)
 United Iron Works. (See Yeatman, John A., assignor.)
 United Iron Works Company. (See Holzer, Hiram A., assignor.)
 United Motor Equipment Co. (See Tate, Charles G., assignor.)
 United Motor Industries. (See Holden, Henry C. L., assignor.)
 United Printing Machinery Co. (See Upham, Burt F., assignor.)
 United Printing Machinery Company. (See Garner, Vernon, assignor.)
 United Printing Machinery Company. (See Glass, William C., assignor.)
 United Printing Machinery Company. (See Hafner, George J., assignor.)
 United Printing Machinery Company. (See Piper, Myron H., assignor.)
 United Salt Company. (See Frasc, Herman, assignor.)
 United Shirt and Collar Company. (See Dormandy, Garry J., assignor.)
 United Shirt and Collar Company. (See Pine, James K. P., assignor.)
 United Shoe Machinery Company. (See Alexander, Alexander M., assignor.)
 United Shoe Machinery Company. (See Allen, John V., assignor.)
 United Shoe Machinery Company. (See Alley, Frederick L., assignor.)
 United Shoe Machinery Company. (See Anderson, Frederick L., assignor.)
 United Shoe Machinery Company. (See Ashton, Orrell, assignor.)
 United Shoe Machinery Company. (See Ashworth, Fred, assignor.)
 United Shoe Machinery Company. (See Asmus, Henry J., assignor.)
 United Shoe Machinery Company. (See Aston, Albert A., assignor.)
 United Shoe Machinery Company. (See Baisley, Reuben T., assignor.)
 United Shoe Machinery Company. (See Barclay, William R., assignor.)
 United Shoe Machinery Company. (See Bates, Arthur, assignor.)
 United Shoe Machinery Company. (See Bates and Gouldbourn, assignors.)
 United Shoe Machinery Company. (See Bates and Kemp, assignors.)
 United Shoe Machinery Company. (See Baxter, William C., assignor.)
 United Shoe Machinery Company. (See Bazzoni and Gillespie, assignors.)
 United Shoe Machinery Company. (See Beier, Paul T., assignor.)
 United Shoe Machinery Company. (See Benjamin, John M., assignor.)
 United Shoe Machinery Company. (See Bennion, Charles F., assignor.)
 United Shoe Machinery Company. (See Bergman, Gustaf, assignor.)
 United Shoe Machinery Company. (See Black, Albert L., assignor.)
 United Shoe Machinery Company. (See Blanchard, Irving W., assignor.)
 United Shoe Machinery Company. (See Bolton, William R., assignor.)
 United Shoe Machinery Company. (See Bond, William A., assignor.)
 United Shoe Machinery Company. (See Borden, William H., assignor.)
 United Shoe Machinery Company. (See Bowen, Charles W., assignor.)
 United Shoe Machinery Company. (See Briggs, Thomas, assignor.)
 United Shoe Machinery Company. (See Briscoe, William J., assignor.)
 United Shoe Machinery Company. (See Brock, Matthias, assignor.)
 United Shoe Machinery Company. (See Brodeur, François X., assignor.)
 United Shoe Machinery Company. (See Brogan, James A., assignor.)
 United Shoe Machinery Company. (See Brogan, Michael F., assignor.)
 United Shoe Machinery Company. (See Brothers, Eli, assignor.)
 United Shoe Machinery Company. (See Brown, Louis M., assignor.)
 United Shoe Machinery Company. (See Buckminster, Ira C., assignor.)
 United Shoe Machinery Company. (See Case, Charles S., assignor.)
 United Shoe Machinery Company. (See Cavanaugh, James, assignor.)
 United Shoe Machinery Company. (See Clark, Byron G., assignor.)
 United Shoe Machinery Company. (See Colby, Daniel W., assignor.)
 United Shoe Machinery Company. (See Cosgrove, John W., assignor.)

United Shoe Machinery Company. (See Council, Connie B., assignor.)
 United Shoe Machinery Company. (See Cridland, Ernest A., assignor.)
 United Shoe Machinery Company. (See Darnill, Walter W., assignor.)
 United Shoe Machinery Company. (See Davenport, Herman A., assignor.)
 United Shoe Machinery Company. (See Davey, John F., assignor.)
 United Shoe Machinery Company. (See Dodge, Chauncey W., assignor.)
 United Shoe Machinery Company. (See Donaldson, George, assignor.)
 United Shoe Machinery Company. (See Dow, John L., assignor.)
 United Shoe Machinery Company. (See Eager, Fredrick W., assignor.)
 United Shoe Machinery Company. (See Eaton, Arthur W., assignor.)
 United Shoe Machinery Company. (See Eaton, Harrison H., assignor.)
 United Shoe Machinery Company. (See Eldridge, John A., assignor.)
 United Shoe Machinery Company. (See Ells, Fred, assignor.)
 United Shoe Machinery Company. (See Engel, Karl, assignor.)
 United Shoe Machinery Company. (See Eppler, Andrew, assignor.)
 United Shoe Machinery Company. (See Erickson, Edward, assignor.)
 United Shoe Machinery Company. (See Fausse, Joseph, assignor.)
 United Shoe Machinery Company. (See Fletcher, Ira E., assignor.)
 United Shoe Machinery Company. (See Flynt, Louis W. G., assignor.)
 United Shoe Machinery Company. (See Furber, Frederick M., assignor.)
 United Shoe Machinery Company. (See Gardner, George B., assignor.)
 United Shoe Machinery Company. (See Gillespie, John J., assignor.)
 United Shoe Machinery Company. (See Glass, Perley R., assignor.)
 United Shoe Machinery Company. (See Gleason, Frederick W., assignor.)
 United Shoe Machinery Company. (See Glidden, John E., assignor.)
 United Shoe Machinery Company. (See Glidden, Lester L., assignor.)
 United Shoe Machinery Company. (See Goddu, George, assignor.)
 United Shoe Machinery Company. (See Gordon, William, assignor.)
 United Shoe Machinery Company. (See Gouldbourn and Woodcock, assignors.)
 United Shoe Machinery Company. (See Gouldbourn, Bates, and Jerram, assignors.)
 United Shoe Machinery Company. (See Hadaway, John B., assignor.)
 United Shoe Machinery Company. (See Hallquist, Gustaf E., assignor.)
 United Shoe Machinery Company. (See Hammon, George W., assignor.)
 United Shoe Machinery Company. (See Hammond, William P., assignor.)
 United Shoe Machinery Company. (See Harmon, Frank L., assignor.)
 United Shoe Machinery Company. (See Harris and Bates, assignors.)
 United Shoe Machinery Company. (See Hart, Harry M., assignor.)
 United Shoe Machinery Company. (See Heather, Charles H., assignor.)
 United Shoe Machinery Company. (See Heys, John J., assignor.)
 United Shoe Machinery Company. (See Hill, George S., assignor.)
 United Shoe Machinery Company. (See Holbrook and Donlon, assignors.)
 United Shoe Machinery Company. (See Hooper, William H., assignor.)
 United Shoe Machinery Company. (See Hooper and Seeley, assignors.)
 United Shoe Machinery Company. (See Iffert, Jean A. G., assignor.)
 United Shoe Machinery Company. (See Jackson, James E., assignor.)
 United Shoe Machinery Company. (See Jacobs, Ernest C., assignor.)
 United Shoe Machinery Company. (See Jerram, Arthur E., assignor.)
 United Shoe Machinery Company. (See Jerram, Gouldbourn, and Bates, assignors.)
 United Shoe Machinery Company. (See Jones, Louis A., assignor.)
 United Shoe Machinery Company. (See Julian, Gideon J., assignor.)
 United Shoe Machinery Company. (See Keall, Frank P., assignor.)

- United Shoe Machinery Company. (See Keay, James A., assignor.)
 United Shoe Machinery Company. (See Kelley, Rawson A., assignor.)
 United Shoe Machinery Company. (See Keyes, Eugene L., assignor.)
 United Shoe Machinery Company. (See Knowlton, Frank W., assignor.)
 United Shoe Machinery Company. (See Kourlan, Jacob K., assignor.)
 United Shoe Machinery Company. (See La Chapelle, Euclid I., assignor.)
 United Shoe Machinery Company. (See La Chapelle, Fred N., assignor.)
 United Shoe Machinery Company. (See Latham, Albert, assignor.)
 United Shoe Machinery Company. (See Littlefield, Augustine F., assignor.)
 United Shoe Machinery Company. (See Loomer, Henry M., assignor.)
 United Shoe Machinery Company. (See Lund, Andrew M., assignor.)
 United Shoe Machinery Company. (See Lund, Thomas, assignor.)
 United Shoe Machinery Company. (See Lynch, John M., assignor.)
 United Shoe Machinery Company. (See Lyon, Harry, assignor.)
 United Shoe Machinery Company. (See MacKenzie, Fred L., assignor.)
 United Shoe Machinery Company. (See Mayo, Benjamin F., assignor.)
 United Shoe Machinery Company. (See McFeely, Ronald F., assignor.)
 United Shoe Machinery Company. (See Meyer, William C., assignor.)
 United Shoe Machinery Company. (See Miller and Freeman, assignors.)
 United Shoe Machinery Company. (See Nally, Matthew, assignor.)
 United Shoe Machinery Company. (See Norden, Carl S., assignor.)
 United Shoe Machinery Company. (See Percy, Herbert J., assignor.)
 United Shoe Machinery Company. (See Perry, Frederick H., assignor.)
 United Shoe Machinery Company. (See Phelan, Merton D., assignor.)
 United Shoe Machinery Company. (See Plant, Thomas G., assignor.)
 United Shoe Machinery Company. (See Pope, Joseph H., assignor.)
 United Shoe Machinery Company. (See Potter, Charles A., assignor.)
 United Shoe Machinery Company. (See Preble, Edwin N., assignor.)
 United Shoe Machinery Company. (See Prenzel, Adam H., assignor.)
 United Shoe Machinery Company. (See Pride, John P., assignor.)
 United Shoe Machinery Company. (See Prime, Daniel N., assignor.)
 United Shoe Machinery Company. (See Prindle, Edwin J., assignor.)
 United Shoe Machinery Company. (See Reed, William A., assignor.)
 United Shoe Machinery Company. (See Reed and Foley, assignors.)
 United Shoe Machinery Company. (See Richards, Alfred E., assignor.)
 United Shoe Machinery Company. (See Richardson, John H., assignor.)
 United Shoe Machinery Company. (See Roberts, William T. B., assignor.)
 United Shoe Machinery Company. (See Roberts and Brown, assignors.)
 United Shoe Machinery Company. (See Robertson, William V., assignor.)
 United Shoe Machinery Company. (See Rooney, Thomas F., assignor.)
 United Shoe Machinery Company. (See Rumney, Fred A., assignor.)
 United Shoe Machinery Company. (See Russell, Arthur L., assignor.)
 United Shoe Machinery Company. (See Ryberg, John W., assignor.)
 United Shoe Machinery Company. (See Scott, Jacob R., assignor.)
 United Shoe Machinery Company. (See Seely, Thomas H., assignor.)
 United Shoe Machinery Company. (See Shaw, Percy W., assignor.)
 United Shoe Machinery Company. (See Shaw, Walter, assignor.)
 United Shoe Machinery Company. (See Simmons, Ralph C., assignor.)
 United Shoe Machinery Company. (See Skinner, Clarence F., assignor.)
 United Shoe Machinery Company. (See Smith, Robert P., assignor.)
 United Shoe Machinery Company. (See Spencer, Alvah C., assignor.)
 United Shoe Machinery Company. (See Stanbon, Charles P., assignor.)
 United Shoe Machinery Company. (See Standish, John F., assignor.)
 United Shoe Machinery Company. (See Stewart, William C., assignor.)
 United Shoe Machinery Company. (See Stiggins, Edward A., assignor.)
 United Shoe Machinery Company. (See Stone, John A., assignor.)
 United Shoe Machinery Company. (See Topham, Laurence E., assignor.)
 United Shoe Machinery Company. (See Triem, Jakob, assignor.)
 United Shoe Machinery Company. (See Tripp, Eliphalet A., assignor.)
 United Shoe Machinery Company. (See Varney, Everett W., assignor.)
 United Shoe Machinery Company. (See Wales, Alfred B., assignor.)
 United Shoe Machinery Company. (See Wallace, Malcolm E., assignor.)
 United Shoe Machinery Company. (See Warren, Frank H., assignor.)
 United Shoe Machinery Company. (See Warren, George E., assignor.)
 United Shoe Machinery Company. (See Weber, Lewis F., assignor.)
 United Shoe Machinery Company. (See Wentworth, Pearl J., assignor.)
 United Shoe Machinery Company. (See Winkley, Erastus E., assignor.)
 United Shoe Machinery Company. (See Winter, Henry W., assignor.)
 United States Carburetor Company. (See Maino and Pellegrini, assignors.)
 United States Cartridge Company. (See Butler, Paul, assignor.)
 United States Cartridge Company. (See Macomber, William I., assignor.)
 United States Cloth Cutting Machine Co., The. (See Kowmow, Nicolas, assignor.)
 United States Electric Signal Company. (See Ruddick, John J., assignor.)
 United States Envelop Sealing Machine Company. (See Davis, Carl H., assignor.)
 United States Envelope Co. (See Heywood and Travis, assignors.)
 United States Envelope Company. (See Logan, James, assignor.)
 United States Envelope Company. (See Schmidt, Ferdinand L., assignor.)
 United States Envelope Company. (See Staude, Edwin G., assignor.)
 United States Envelope Company. (See Swift, Willard E., assignor.)
 United States Envelope Company. (See Wescher and Fischer, assignors.)
 United States Faucet Co. (See Richter, John L., assignor.)
 United States Glass Company. (See Anderson, Frederick E., assignor.)
 United States Glass Company. (See Steimer, Theodore C., assignor.)
 United States Hoffman Company. (See Spencer, James B., assignor.)
 United States Horse Shoe Co. (See Cutten, Elisha B., assignor.)
 United States Incinerator Company. (See McKeown, William C., assignor.)
 United States Light and Heat Corporation, The. (See Bliss, William L., assignor.)
 United States Light and Heating Company, The. (See Tower, Edwin B. H., Jr., assignor.)
 United States Metal Products Company. (See Rapp, John W., assignor.)
 United States Metallic Packing Company. (See Lucke, Charles E., assignor.)
 United States Metals Refining Company. (See Pyne and Green, assignors.)
 United States Register Company, The. (See Truax, William T., assignor.)
 United States Rubber Company. (See Adamson, Cecil F., assignor.)
 United States Rubber Company. (See Boyle, Francis, assignor.)
 United States Tire Company, The, *et al.* (See Wagenhorst, James H., assignor.)
 United States Tropical Food Company. (See Plunkett, Hugh E., assignor.)
 United Telegraph & Cable Company, The. (See Bruce, William M., Jr., assignor.)
 United-Xpedite Finishing Company. (See Pease, Charles, assignor.)
 Unitee Knitwear Company. (See Scott, James C., assignor.)
 Untype Company, The. (See Linke, Emil F., assignor.)
 Universal Car Seal and Appliance Company. (See Martineau, William C., assignor.)
 Universal Caster & Foundry Company. (See Diss, Albert B., assignor.)

Alphabetical list of patentees—Continued.

- Universal Caster & Foundry Company. (See Ill, Henry, assignor.)
- Universal Cigar Machinery Co. (See Heyman, Albert A., assignor.)
- Universal Draft Gear Attachment Co. (See Kinsman, Charles C., assignor.)
- Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
- Universal Draft Gear Attachment Company. (See Wrigley, Henry I., assignor.)
- Universal Electric Welding Company. (See Ellinger, Julian O., assignor.)
- Universal Electric Welding Company. (See Lachman, Laurence S., assignor.)
- Universal Electric Welding Company. (See Lachman, Maurice, assignor.)
- Universal Electric Welding Company. (See Rietzel, Adolph F., assignor.)
- Universal Fastening Company. (See Stuckel, Frank C., assignor.)
- Universal Fibre Company. (See Rivers, Julian H., assignor.)
- Universal Filter-Faucet Corporation. (See Boulard, Joseph, assignor.)
- Universal High Power Telephone Company. (See Farrar, Horace J., assignor.)
- Universal High Power Telephone Company. (See Hackett, Paul J., assignor.)
- Universal High-Power Telephone Company. (See Pearson, Miles E., assignor.)
- Universal Indexing Company, The. (See Smith, Louis R., assignor.)
- Universal Indicator Company. (See Bobroff, Bornett L., assignor.)
- Universal Liquid Register Company. (See Brown, Charles F., assignor.)
- Universal Manufacturing Company. (See Bergstrom, Oscar M., assignor.)
- Universal Pencil Company. (See Sultzbaugh, Harry L., assignor.)
- Universal Printing Appliances Company. (See Warren, Arthur R., assignor.)
- Universal Printing Appliances Company. (See Warren and Bals, assignors.)
- Universal Rim Company. (See Baker, Erle K., assignor.)
- Universal Rim Company. (See Hawley and Baker, assignors.)
- Universal Speed Control Company, The. (See Pratt, Charles R., assignor.)
- Universal Stamping-Machine Company. (See Graham, George H., assignor.)
- Universal Sterilizing Company. (See Coburn and Davis, assignors.)
- Universal Swing Joint and Machine Company. (See Bridges, John, assignor.)
- Universal Turbine Company, The. (See Anderson, Emil, assignor.)
- Universal Vacuum Seal Company, The. (See Sinclair and Menough, assignors.)
- Universal Winding Company. (See Lewis, Everett C., assignor.)
- Universal Winding Company. (See Marcroft, George, assignor.)
- Universal Winding Company. (See Rand and Taylor, assignors.)
- Universal Winding Company. (See Ryden, Claes, assignor.)
- Universelle Cigaretten-Maschinen-Industrie System Otto Bergstrasser Aktiengesellschaft. (See Grahl, Max C., assignor.)
- Universelle Cigaretten-Maschinen-Industrie System Otto Bergstrasser Aktiengesellschaft. (See Mühlbauer, Ernst C., assignor.)
- Unks, Thomas E., Sandusky, Ohio. Operating means for washing-machines. No. 1,142,543; June 8; Gaz. vol. 215; p. 549.
- Unné, Pierre G. (See Canton, Unné, and Salmson.)
- Unsinger, Philip H., Fremont, Ohio. Twine-cutter. No. 1,162,264; Nov. 30; Gaz. vol. 220; p. 1534.
- Unterberg, Gustav, Durlach, Germany. Ignition apparatus for starting internal-combustion engines. No. 1,132,987; Mar. 23; Gaz. vol. 212; p. 1233.
- Unterlander, John, New York, N. Y. Lock. No. 1,141,437; June 1; Gaz. vol. 215; p. 126.
- Unversaw, Albert H. (See Unversaw, Edward A. and A. H.)
- Unversaw, Edward A. and A. H., Indianapolis, Ind. Cover for buckets and pails. No. 1,123,432; Jan. 5; Gaz. vol. 210; p. 81.
- Unzelman, John C., Madison, S. D. Seed-drill. No. 1,129,823; Feb. 23; Gaz. vol. 211; p. 1225.
- Up-To-Date Machine Company, The. (See McKillip, Frank L., assignor.)
- Upham, Burt F., Chicago, Ill. Printing-press. No. 1,128,390; Feb. 16; Gaz. vol. 211; p. 693.
- Upham, Burt F., Chicago, Ill., assignor to Southgate Machinery Company, Boston, Mass. Sheet-delivery mechanism. No. 1,125,218; Jan. 19; Gaz. vol. 210; p. 790.
- Upham, Burt F., assignor to United Printing Machinery Co., Boston, Mass. Plate-hook. No. 1,142,208; June 8; Gaz. vol. 215; p. 430.
- Upjohn, Uriah C., Los Angeles, Cal. Game apparatus. No. 1,144,743; June 29; Gaz. vol. 215; p. 1406.
- Uppercu, Inglis M. (See Newton and Uppercu.)
- Upson, Edwin L., Brooklyn, N. Y., and H. W. Pleister, Westfield, assignors to H. B. Newhall, Plainfield, N. J. Percussion-hammer. No. 1,163,711; Dec. 14; Gaz. vol. 221; p. 387.
- Upson, Edwin L., Brooklyn, N. Y., and H. W. Pleister, Westfield, assignors to H. B. Newhall, Plainfield, N. J. Drill-rotating mechanism for percussion-hammers. No. 1,163,712; Dec. 14; Gaz. vol. 221; p. 387.
- Upson, Edwin L., Brooklyn, N. Y., and H. W. Pleister, Westfield, assignors to H. B. Newhall, Plainfield, N. J. Drill-rotating means for percussion-hammers. No. 1,163,713; Dec. 14; Gaz. vol. 221; p. 388.
- Upson, Edwin L., Brooklyn, N. Y., and H. W. Pleister, Westfield, N. J., assignors to H. B. Newhall, Littleton, N. H. Spring-actuated hammer. No. 1,163,715; Dec. 14; Gaz. vol. 221; p. 389.
- Uptegraff, Walter D., et al., executors. (See Westinghouse, George.)
- Uptegrove, William, Clare, Mich. Railway cattle-guard. No. 1,147,766; July 27; Gaz. vol. 216; p. 1043.
- Upton, Albert W., Los Angeles, Cal. Garden-tool. No. 1,158,335; Oct. 26; Gaz. vol. 219; p. 1170.
- Upton, George B., Ithaca, N. Y., and G. W. Lewis, Swarthmore, assignors to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Fatigue-testing machine. No. 1,156,726; Oct. 12; Gaz. vol. 219; p. 514.
- Upton, George F., Kansas City, Mo. Fire-escape. No. 1,141,995; June 8; Gaz. vol. 215; p. 355.
- Upton, George W. (See Flegel, Benjamin F., assignor.)
- Upton, George W., Warren, Ohio. Fishing-tackle. No. 1,140,779; May 25; Gaz. vol. 214; p. 1180.
- Upton, Harold F., et al. (See Goldberg, Max, assignor.)
- Upton, James R., Peoria, Ill. Lock. No. 1,154,078; Sept. 21; Gaz. vol. 218; p. 677.
- Upton, Jesse H., assignor of one-half to J. Tabor, Bryson City, N. C. Train-stopping apparatus. No. 1,132,408; Mar. 16; Gaz. vol. 212; p. 971.
- Uquhart, James E. (See Dennis, Joseph, assignor.)
- Urase, Masajiro, Steveston, British Columbia, Canada. Device for teaching writing. No. 1,136,450; Apr. 20; Gaz. vol. 213; p. 921.
- Urbach, Alfred, Los Angeles, Cal. Automobile-fender. No. 1,124,978; Jan. 12; Gaz. vol. 210; p. 668.
- Urbach, Otto, Krawinkelbrücke, Germany. Wrench. No. 1,123,820; Jan. 5; Gaz. vol. 210; p. 212.
- Urban, Joseph P., assignor of one-half to Detroit Concrete Receptacle Co., Detroit, Mich. Mold. No. 1,151,309; Aug. 24; Gaz. vol. 217; p. 1217.
- Urban, Firm of Otto. (See Schmiedeberg, Johannes A. G., assignor.)
- Urbanek, Joseph, Chicago, Ill. Non-skidding attachment for wheels. No. 1,136,298; Apr. 20; Gaz. vol. 213; p. 867.
- Urbanek, Joseph, Chicago, Ill. Invalid's reading-stand. No. 1,146,216; July 13; Gaz. vol. 216; p. 455.
- Urbanides, Vojtěch, Königsal, near Prague, Austria-Hungary. Hook for bedsteads, doors, and the like. No. 1,126,133; Jan. 26; Gaz. vol. 210; p. 1150.
- Urber, John C. (See Litt and Urber.)
- Urdzela, Andrew, Hamtramck, Mich. Adjustable curtain-holder. No. 1,141,370; June 1; Gaz. vol. 215; p. 101.
- Uren, John S., et al. (See McBride, Thomas W., assignor.)
- Urie, Howard, Twin Falls, Idaho. Sickle-bar and pitman-rod connector. No. 1,141,731; June 1; Gaz. vol. 215; p. 228.
- Urie, James W., assignor of one-half to H. Brail, Carson City, Mich. Clamp for wire-stretchers. No. 1,132,133; Mar. 16; Gaz. vol. 212; p. 871.
- Urie, Nimrod R., Carson City, Nev. Variable-speed power-transmission mechanism. No. 1,160,216; Nov. 16; Gaz. vol. 220; p. 720.
- Urguhart, Benjamin, Plainfield, N. J. Tire-rim. No. 1,133,683; Mar. 30; Gaz. vol. 212; p. 1519.
- Ursbruck, Frank C., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,151,839; Aug. 31; Gaz. vol. 217; p. 1445.
- Ursbruck, Frank C., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,156,331; Oct. 12; Gaz. vol. 219; p. 373.
- Urshel, Charles G. (See Blankner, William, assignor.)
- Ursinus, Oskar, Frankfurt-on-the-Main, Germany. Float for hydroaeroplanes. No. 1,133,342; Mar. 30; Gaz. vol. 212; p. 1395.
- Urtel, Rudolph, Niederschöneweide, Germany, assignor to General Electric Company. Valve-operating mechanism for internal-combustion engines. No. 1,156,508; Oct. 12; Gaz. vol. 219; p. 438.
- Urwick, Henry, Worcester, England. Glove. No. 1,143,093; June 15; Gaz. vol. 215; p. 780.
- Usener, Hans, Kiel, Germany. Gyro-compass. No. 1,136,566; Apr. 20; Gaz. vol. 213; p. 963.
- Usina, Edmund A., New York, N. Y. Leather belting. No. 1,127,549; Feb. 9; Gaz. vol. 211; p. 350.
- Usona Machine Company. (See McGirr, Theodore G., assignor.)
- Utah Patent and Implement Company. (See Allen, Charles L., assignor.)

- Utahna Development Company. (See Pfeiffer, Otto G., assignor.)
- Utard, Antoine, Longeville, France. Hand molding-machine with lifting arrangement. No. 1,144,400; June 29; Gaz. vol. 215; p. 1288.
- Utard, Henry. (See Smith, John, assignor.)
- Utescher, Ernst, Hamburg, Germany. Saturating unsaturated fatty acids and their glycerids by combining them with hydrogen. No. 1,124,560; Jan. 12; Gaz. vol. 210; p. 520.
- Utility Compressor Co. (See Holley and List, assignors.)
- Utility Manufacturing Company. (See Applegate, Lee R., assignor.)
- Utne, Per, Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Indication-circuit for railway-traffic-controlling devices. No. 1,131,297; Mar. 9; Gaz. vol. 212; p. 539.
- Utsman, John, Fullerton, La. Loading-hook. No. 1,160,016; Nov. 9; Gaz. vol. 220; p. 597.
- Utsunomiya, Shikanosuke, Vancouver, British Columbia, Canada. Educational device. No. 1,132,409; Mar. 16; Gaz. vol. 212; p. 971.
- Utsurogi, Satoru, Seattle, Wash. Wall picture-support. No. 1,151,425; Aug. 24; Gaz. vol. 217; p. 1255.
- Utter, Richard I., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Coin-box. No. 1,124,561; Jan. 12; Gaz. vol. 210; p. 520.
- Utter, Richard I., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system. No. 1,149,229; Aug. 10; Gaz. vol. 217; p. 366.
- Utter, Richard I., and H. P. Schmidt, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Magneto cord-circuit with secret service. No. 1,144,401; June 29; Gaz. vol. 215; p. 1289.
- Utterback, Claude F., Moorsville, Ind. Mail-box. No. 1,128,919; Feb. 16; Gaz. vol. 211; p. 878.
- Utz, William A., Fort Worth, Tex. Safety attachment for locomotive-cabs. No. 1,130,354; Mar. 2; Gaz. vol. 212; p. 178.
- Utz, William A., Fort Worth, Tex. Life-saving attachment for locomotive-cabs. No. 1,147,464; July 20; Gaz. vol. 216; p. 912.
- Utz, William A., Fort Worth, Tex. Life-saving device for the cabs of locomotives. No. 1,147,465; July 20; Gaz. vol. 216; p. 912.
- Utz, Anthony, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Back-spacing device for type-writing machines. No. 1,154,277; Sept. 21; Gaz. vol. 218; p. 745.
- Utz, John G., assignor to The Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 1,153,357; Sept. 14; Gaz. vol. 218; p. 390.
- Utz, John G., Detroit, Mich., and C. S. Pelton, Cleveland, assignors to The Maranville Base and Filter Company, Cleveland, Ohio. Filter. No. 1,165,640; Dec. 28; Gaz. vol. 221; p. 1141.
- Uyeda, Sunmye, San Francisco, Cal. Wearing-apparel. No. 1,149,158; Aug. 3; Gaz. vol. 217; p. 236.
- Uyeno, Sadamasa, Tokyo, Japan. Coating iron with aluminium. No. 1,165,920; Dec. 28; Gaz. vol. 221; p. 1237.
- V. Weber & Company. (See Freas, Thomas B., assignor.)
- Vacarezza, Andrew, Vineland, N. J. Wrench. No. 1,123,958; Jan. 5; Gaz. vol. 210; p. 258.
- Vacuum Car Ventilating Co. (See Cooke, Dwight I., assignor.)
- Vacuum Cleaner Company, The. (See Lotz and Bailey, assignors.)
- Vacuum Specialty Manufacturing Co. (See Duffie, John J., assignor.)
- Vader, Lloyd C., Greenwich, Conn. Flush-valve. No. 1,145,635; July 6; Gaz. vol. 216; p. 230.
- Vadner, Charles S., Salt Lake City, Utah. Recovery of metals from ores and the like. No. 1,144,402; June 29; Gaz. vol. 215; p. 1289.
- Vadner, Charles S., Salt Lake City, Utah. Recovery of metals from ores and the like. No. 1,146,373; July 13; Gaz. vol. 216; p. 509.
- Vadner, Charles S., Salt Lake City, Utah. Recovering zinc from an acid sulfate solution. No. 1,163,286; Dec. 7; Gaz. vol. 221; p. 193.
- Vahey, James A., Boston, Mass. Circuit-interrupter. No. 1,153,086; Oct. 26; Gaz. vol. 219; p. 1084.
- Vail, Chester B. (See Johnson, Frank A., assignor.)
- Vail, James G. (See Stanton and Vail.)
- Vail, James G., Chester, and J. D. Carter, Lansdowne, Pa. Solution of alkaline silicates and preparing the same. No. 1,129,320; Feb. 23; Gaz. vol. 211; p. 1054.
- Vail, James G., Chester, and J. D. Carter, Lansdowne, Pa. Clarifying liquid silicate of soda or the like. No. 1,132,640; Mar. 23; Gaz. vol. 212; p. 1105.
- Vail, James G., Chester, and J. D. Carter, Lansdowne, Pa. Forming and binding material for use in abrasive wheels and the like. No. 1,139,739; May 18; Gaz. vol. 214; p. 783.
- Vail, James G., Chester, and J. D. Carter, Lansdowne, Pa. Sodium-silicate composition. No. 1,139,741; May 18; Gaz. vol. 214; p. 784.
- Vail, Joseph M., Bryan, Ohio. Rail-stay. No. 1,131,751; Mar. 16; Gaz. vol. 212; p. 731.
- Vail, Thomas L. C., Gadsden, Ala. Culvert. No. 1,149,702; Aug. 10; Gaz. vol. 217; p. 538.
- Vaile & Kimes. (See Kimes, Hugh W., assignor.)
- Valle-Kimes Company, The. (See Kimes, Hugh W., assignor.)
- Vaill, Charles P., Worcester, Mass., assignor to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Rail-bond. No. 1,157,603; Oct. 19; Gaz. vol. 219; p. 849.
- Vaill, Edward W., Jr., Oradell, N. J. Furniture. No. 1,153,358; Sept. 14; Gaz. vol. 218; p. 390.
- Vaillancourt, Joseph F., Fall River, Mass. Picker-stick check. No. 1,155,529; Oct. 5; Gaz. vol. 219; p. 72.
- Vakula, Andrew, Caro, Mich. Automobile wheel construction. No. 1,131,185; Mar. 9; Gaz. vol. 212; p. 500.
- Valasek, Otakar, assignor of one-half to P. Berkey, Chicago, Ill. Advertising-folder. No. 1,134,082; Mar. 30; Gaz. vol. 212; p. 1654.
- Vaiboe, Peter P., assignor to Penberthy Injector Co., Detroit, Mich. Explosion-engine oiler. No. 1,144,572; June 29; Gaz. vol. 215; p. 1345.
- Valdettaro, Louis A., New York, N. Y. Vending-machine. No. 1,159,298; Nov. 2; Gaz. vol. 220; p. 309.
- Valenta, Charles, Chicago, Ill. Envelop. No. 1,148,874; Aug. 3; Gaz. vol. 217; p. 138.
- Valentine, John, Chicago, Ill. Power-transmission mechanism. No. 1,158,336; Oct. 26; Gaz. vol. 219; p. 1170.
- Valentine, Ralph E., assignor to Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Baking-pan and mold for biscuits. No. 1,124,363; Jan. 12; Gaz. vol. 210; p. 448.
- Valentine, Ralph E., assignor to Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Oven. No. 1,143,151; June 15; Gaz. vol. 215; p. 800.
- Valentine, Walter D., Altadena, Cal., assignor to National Rapid Transit Company, New York, N. Y. Electric-motor wheel. No. 1,151,741; Aug. 31; Gaz. vol. 217; p. 1410.
- Valerius, Theodore L., Fort Atkinson, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Bottle-capping machine. No. 1,134,168; Apr. 6; Gaz. vol. 213; p. 30.
- Valerius, Theodore L., Fort Atkinson, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Ice-cream freezer. No. 1,158,592; Nov. 2; Gaz. vol. 220; p. 65.
- Valerius, Theodore L., Fort Atkinson, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Mixing-machine. No. 1,160,217; Nov. 16; Gaz. vol. 220; p. 721.
- Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package Manufacturing Company, Chicago, Ill. Bottle-capping mechanism. No. 1,139,931; May 18; Gaz. vol. 214; p. 851.
- Vales, Edward J., Augusta, Ga. Spring-saddle for feed-rolls. No. 1,130,220; Mar. 2; Gaz. vol. 212; p. 132.
- Valiant, George, Toronto, Ontario, Canada. Shoe. No. 1,128,391; Feb. 16; Gaz. vol. 211; p. 693.
- Valible, Joseph, Manitowoc, Wis. Hoisting mechanism for mixing-machines. No. 1,145,279; July 6; Gaz. vol. 216; p. 106.
- Valley City Desk Company. (See Clemetsen, Hans, assignor.)
- Valley City Machine Works. (See Lund, Matthew, assignor.)
- Valley Iron Works Company. (See Hinzke, Albert G., assignor.)
- Vallier, Wilfred F., Pontiac, Mich. Speed-controlling device for motor-vehicles. No. 1,166,023; Dec. 28; Gaz. vol. 221; p. 1273.
- Vallin, Joseph F., Audubon, N. J. Rail-chair. No. 1,133,895; Mar. 30; Gaz. vol. 212; p. 1593.
- Vallin, Joseph F., Audubon, N. J. Metallic railway-tie. No. 1,138,428; May 4; Gaz. vol. 214; p. 249.
- Vallino, Mario, assignor to Società Anonima Italiana Glo. Ansaldo & Co., Genoa, Italy. Water-tube marine boiler. No. 1,135,636; Apr. 13; Gaz. vol. 213; p. 594.
- Valois, Achille, Montreal, Quebec, Canada. Flushing-cistern. No. 1,125,219; Jan. 19; Gaz. vol. 210; p. 790.
- Valois, Félix E., Haverhill, Mass. Micrometer-calipers. No. 1,144,623; June 29; Gaz. vol. 215; p. 1363.
- Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Sole-channeling machine. No. 1,140,086; May 18; Gaz. vol. 214; p. 907.
- Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Seam. No. 1,142,288; June 8; Gaz. vol. 215; p. 459.
- Valoppi, Eugene, Scranton, Pa. Transmission-clutch. No. 1,126,924; Feb. 2; Gaz. vol. 211; p. 91.
- Valot, Edward B., St. Louis, Mo. Oil-burner. No. 1,136,185; Apr. 20; Gaz. vol. 213; p. 826.
- Valotone Company. (See Newcomer, Martin, assignor.)
- Valveless Engine Corporation. (See Blume, Robert A., assignor.)
- Vampa, Gloespe S., New York, N. Y. Flush-valve. No. 1,160,790; Nov. 16; Gaz. vol. 220; p. 924.
- Van Allen, Fred L. (See Davis and Van Allen.)
- Van Allen, Tycho, Schectady, N. Y., assignor to General Electric Company. Treatment of metal. No. 1,155,974; Oct. 5; Gaz. vol. 219; p. 225.
- Van Alstyn, Albert T., New York, N. Y. Buckle. No. 1,136,451; Apr. 20; Gaz. vol. 213; p. 922.
- Van Alstyne, George W., Los Angeles, Cal. Floor-polisher. No. 1,164,893; Dec. 21; Gaz. vol. 221; p. 839.

Alphabetical list of patentees—Continued.

- Van Antwerp, Charles, assignor to L. Van Antwerp, Miami, Fla. Walking ditcher. No. 1,155,975; Oct. 5; Gaz. vol. 219; p. 225.
- Van Antwerp, Lillie. (See Van Antwerp, Charles, assignor.)
- Van Arsdale, George D., East Orange, N. J. Precipitating copper from solution. No. 1,147,466; July 20; Gaz. vol. 216; p. 913.
- Van Auker, Marwood D., New York, N. Y. Check-controlled apparatus for pumps. No. 1,127,550; Feb. 9; Gaz. vol. 211; p. 350.
- Van Auker, Marwood D., New York, N. Y. Antiskid and quick-stop. No. 1,151,068; Aug. 24; Gaz. vol. 217; p. 1135.
- Van Auker, Thomas B., Auburn, N. Y. Lathe-tool holder. No. 1,133,591; Mar. 30; Gaz. vol. 212; p. 1484.
- Van Blijenburgh, Jozef P., Amsterdam, Netherlands, assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,137,036; Apr. 27; Gaz. vol. 213; p. 1166.
- Van Bochove, Henry R., Kalamazoo, Mich. Pastry uten sil. No. 1,126,134; Jan. 26; Gaz. vol. 210; p. 1150.
- Van Briggie Tile and Pottery Company, The. (See Angell, Chester M., assignor.)
- Van Brunt, George F., Kewanee, Ill. Packing. No. 1,137,367; Apr. 27; Gaz. vol. 213; p. 1288.
- Van Brunt Manufacturing Company, The. (See Van Brunt and Nelson, assignors.)
- Van Brunt, Willard A., and N. R. Nelson, assignors to The Van Brunt Manufacturing Company, Horicon, Wis. Agitator for fertilizer. No. 1,151,742; Aug. 31; Gaz. vol. 217; p. 1411.
- Van Buren, Jafew S., Albany, N. Y., assignor to Abram Cox Stove Company, Philadelphia, Pa. Gas-range. No. 1,126,595; Jan. 26; Gaz. vol. 210; p. 1318.
- Van Buskirk, Robert N., Detroit, Mich. Draftsman's protractor. No. 1,157,825; Oct. 26; Gaz. vol. 219; p. 991.
- Van Cleef, Paul, Chicago, Ill. Collapsible tube. No. 1,125,773; Jan. 19; Gaz. vol. 210; p. 988.
- Van Daam, Gerrit, Buffalo, N. Y. Preheating device. No. 1,155,112; Sept. 28; Gaz. vol. 218; p. 1061.
- Van Daam, Gerrit, Buffalo, N. Y. Preheating device. No. 1,155,113; Sept. 28; Gaz. vol. 218; p. 1061.
- Van Daam, Gerrit, Buffalo, N. Y. Gas-burner. No. 1,155,114; Sept. 28; Gaz. vol. 218; p. 1061.
- Van Dam, Wilhelmus J., *et al.* (See Lasschuit, Pierre T. A., assignor.)
- Van den Bergh, Jacques M., Montreal, Quebec, Canada. Fire-door for furnaces and the like. No. 1,132,064; Mar. 16; Gaz. vol. 212; p. 846.
- Van den Bergh, Jacques M., assignor of one-half to F. Delas, Montreal, Quebec, Canada. Tree-sawing machine. No. 1,136,852; Apr. 20; Gaz. vol. 213; p. 1064.
- Van der Bijl, Hendrik J., assignor to Western Electric Company, New York, N. Y. Alternating-current-responsive apparatus. No. 1,130,043; Mar. 2; Gaz. vol. 212; p. 70.
- Van der Bijl, Hendrik J., New York, and A. M. Nicolson, Tarrytown, assignors to Western Electric Company, New York, N. Y. High-current-output audion. No. 1,130,042; Mar. 2; Gaz. vol. 212; p. 70.
- Van der Hoorn, Lodovicus J. J., and S. Wouda, Utrecht, Netherlands. Bargain-indicator. No. 1,153,737; Sept. 14; Gaz. vol. 218; p. 524.
- Van der Linde, Harold T. G., *et al.* (See Waddell, Montgomery, assignor.)
- Van der Meersch, Oscar, Richmond, Va. Brick cleaning and refacing machine. No. 1,135,127; Apr. 13; Gaz. vol. 213; p. 417.
- Van der Putten, John R., New Philadelphia, Ohio. Valve for suction-sweepers. No. 1,163,716; Dec. 14; Gaz. vol. 221; p. 389.
- Van der Straeten, Fernand, Brussels, Belgium. Vehicle-brake. No. 1,129,249; Feb. 23; Gaz. vol. 211; p. 1029.
- Van Deren, George W., Elmira, N. Y. Coaster-brake. No. 1,139,145; May 11; Gaz. vol. 214; p. 540.
- Van Deren, George W., Elmira, N. Y. Coaster-brake. No. 1,158,337; Oct. 26; Gaz. vol. 219; p. 1171.
- Van Deren, George W., Elmira, N. Y. Coaster-brake. No. 1,158,751; Nov. 2; Gaz. vol. 220; p. 119.
- Van Deventer, Christopher, Chicago, Ill. Motion-picture camera. No. 1,162,419; Nov. 30; Gaz. vol. 220; p. 1586.
- Van Deventer, George F., Aurora, Ill. Trolley-track and hood. No. 1,161,271; Nov. 23; Gaz. vol. 220; p. 1141.
- Van Deventer, Harry R., Sumter, S. C. Igniter mechanism for internal-combustion engines. No. 1,153,767; Sept. 14; Gaz. vol. 218; p. 534.
- Van Deventer, Henry R., Sumter, S. C. Ignition system for internal-combustion engines. No. 1,142,920; June 15; Gaz. vol. 215; p. 719.
- Van Deventer, James E., Anderson, Ind., assignor of one-half to N. V. Smith. Work-holder for sewing-machines. No. 1,140,217; May 18; Gaz. vol. 214; p. 951.
- Van Devoorde, Eugen, Bremen, assignor to W. Kober & Co., Suhl-in-Turing, Germany. Rotatable circular brush. No. 1,153,738; Sept. 14; Gaz. vol. 218; p. 525.
- Van Doorn, Charles E., Irondequoit, N. Y. Mop-wringer. No. 1,132,752; Mar. 23; Gaz. vol. 212; p. 1146.
- Van Doren, Chester J., Chanute, Kans. Pneumatic apparatus for transferring material. No. 1,125,413; Jan. 19; Gaz. vol. 210; p. 861.
- Van Doren, Horatio E., South Bend, Ind. Electric heating element. No. 1,166,095; Dec. 28; Gaz. vol. 221; p. 1298.
- Van Dorn Coupler Company. (See Van Dorn, Herbert E., assignor.)
- Van Dorn Electric Tool Company, The. (See Pick, Alfred, assignor.)
- Van Dorn Girder Plate Company. (See Van Dorn, William T., assignor.)
- Van Dorn, Herbert E. (See Van Dorn, William T. and H. E.)
- Van Dorn, Herbert E., Chicago, Ill. Railway-coupling. No. 1,148,555; Aug. 3; Gaz. vol. 217; p. 25.
- Van Dorn, Herbert E., assignor to Van Dorn Coupler Company, Chicago, Ill. Car-coupling. No. 1,161,426; Nov. 23; Gaz. vol. 220; p. 1197.
- Van Dorn Iron Works, The. (See Martin, Arthur, assignor.)
- Van Dorn Iron Works Company, The. (See Hoffman and Schaefer, assignors.)
- Van Dorn Iron Works Company, The. (See Schaefer, Joseph F., assignor.)
- Van Dorn, Robert W., Saratoga Springs, N. Y. Electric-light hanger and adjuster for mast-arms. No. 1,154,818; Sept. 28; Gaz. vol. 218; p. 959.
- Van Dorn, William T., assignor to Van Dorn Girder Plate Company, Chicago, Ill. Corrugated plate. No. 1,126,135; Jan. 26; Gaz. vol. 210; p. 1150.
- Van Dorn, William T. and H. E., Chicago, Ill. Railway draw-head and coupling. No. 1,148,556; Aug. 3; Gaz. vol. 217; p. 25.
- Van Dresar, Milford S. (See McGrouary and Van Dresar.)
- Van Dusen, George E., Cleveland, Ohio. Smoker's convenience. No. 1,152,454; Sept. 7; Gaz. vol. 218; p. 25.
- Van Dyke, Carl C., St. Paul, Minn. Rope-tying device. No. 1,155,976; Oct. 5; Gaz. vol. 219; p. 226.
- Van Dyke, George, New Brunswick, N. J. Vacuum radiator-valve. No. 1,131,096; Mar. 9; Gaz. vol. 212; p. 469.
- Van Dyke, John W., Philadelphia, Pa. Railway tank-car. No. 1,148,730; Aug. 3; Gaz. vol. 217; p. 89.
- Van Dyke, John W., and W. M. Irish, assignors to The Atlantic Refining Company, Philadelphia, Pa. Fractional condenser for separating hydrocarbons in distilling petroleum. No. 1,130,862; Mar. 9; Gaz. vol. 212; p. 389.
- Van Dyke, John W., and W. M. Irish, assignors to The Atlantic Refining Company, Philadelphia, Pa. Process of and apparatus for distilling petroleum. No. 1,143,466; June 15; Gaz. vol. 215; p. 911.
- Van Dyke, John W., and W. M. Irish, assignors to The Atlantic Refining Company, Philadelphia, Pa. Settling for petroleum-stills or analogous vessels. No. 1,152,576; Sept. 7; Gaz. vol. 218; p. 73.
- Van Dyke, Nickolaas, Bakersfield, Cal. Combined piston and spark-plug shield. No. 1,129,028; Feb. 16; Gaz. vol. 211; p. 917.
- Van Dyken, Harry, Two Harbors, Minn. Fracture-indicating plug. No. 1,151,630; Aug. 31; Gaz. vol. 217; p. 1374.
- Van Dyne, John R., Sedalia, Mo. Disinfecting apparatus. No. 1,139,740; May 18; Gaz. vol. 214; p. 783.
- Van Emburgh, Eben H. (See Richards, Van Emburgh, and Zeller.)
- Van Fleet, Frederick W. and R. S. Forest, Ohio, assignors of two-thirds to said Frederick W. Van Fleet and one-third to said R. S. Van Fleet. Corner-joint for screen and other frames. No. 1,161,169; Nov. 23; Gaz. vol. 220; p. 1104.
- Van Fleet, Jesse D., Minot, N. D. Shipping-receipt holder. No. 1,158,338; Oct. 26; Gaz. vol. 219; p. 1171.
- Van Fleet, Rodney S. (See Van Fleet, Frederick W. and R. S.)
- Van Gelder, Mozes, Chicago, Ill. Mattress. No. 1,130,946; Mar. 9; Gaz. vol. 212; p. 418.
- Van Gilder, Lincoln, Ventnor, N. J. Water-meter. No. 1,146,674; July 13; Gaz. vol. 216; p. 615.
- Van Gieckland Co. (See Harris, William W., assignor.)
- Van Gieckland Co. Inc. (See Iden and Suckert, assignors.)
- Van Groos, John A., and O. G. Gilstrap, Portland, Oreg. Step-operating means controlling starting of electric cars. No. 1,132,134; Mar. 16; Gaz. vol. 212; p. 871.
- Van Guelpen, Louis J., and P. Bernhardt, Cincinnati, Ohio. Burnishing-machine. No. 1,162,829; Dec. 7; Gaz. vol. 221; p. 35.
- Van Hardenbroek van Ammerstol, Frederik J. C., Ubbergen, Netherlands. Calculating device. No. 1,162,828; Dec. 7; Gaz. vol. 221; p. 34.
- Van Heest, Jacob, New Freedom, Pa. Color-chart. No. 1,144,266; June 22; Gaz. vol. 215; p. 1214.
- Van Heusen, John M., Jamaica Plain, Mass. Rubber heel. No. 1,140,635; May 25; Gaz. vol. 214; p. 1134.
- Van Hoesen, Benjamin, Ulmer, Tex. Lock. No. 1,139,933; May 18; Gaz. vol. 214; p. 851.
- Van Hoesen, William F., Schenectady, N. Y., assignor to General Electric Company. Valve-operating mechanism. No. 1,133,343; Mar. 30; Gaz. vol. 212; p. 1395.
- Van Horn, Sheridan A., assignor of forty-nine one-hundredths to M. Hall, Syracuse, N. Y. Woman's hat-fastener. No. 1,154,222; Sept. 21; Gaz. vol. 218; p. 725.
- Van Horn, Vandiver J., Chicago, Ill. Sewing-machine. No. 1,136,299; Apr. 20; Gaz. vol. 213; p. 867.

- Van Horn, Vandiver J., Chicago, Ill. Sewing-machine. No. 1,143,795; June 22; Gaz. vol. 215; p. 1047.
- Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Ornamental-stitch sewing-machine. No. 1,128,920; Feb. 16; Gaz. vol. 211; p. 879.
- Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Ornamental-stitch sewing-machine. No. 1,134,564; Apr. 6; Gaz. vol. 213; p. 176.
- Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Thread-cutter for sewing-machines. No. 1,145,636; July 6; Gaz. vol. 216; p. 231.
- Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Ornamental-stitch sewing-machine. No. 1,166,278; Dec. 28; Gaz. vol. 221; p. 1368.
- Van Horn, Vandiver J., assignor to Union Special Machine Company, Chicago, Ill. Ornamental-stitch sewing-machine. No. 1,166,279; Dec. 28; Gaz. vol. 221; p. 1368.
- Van Horn, William H. (See Kemp and Van Horn.)
- Van Houten, Frank H., Fishkill-on-the-Hudson, N. Y. Driving mechanism. No. 1,140,319; May 18; Gaz. vol. 214; p. 986.
- Van Houten, Frank H., Fishkill-on-Hudson, N. Y. Dough-dividing machine. No. 1,158,339; Oct. 26; Gaz. vol. 219; p. 1171.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Automatic dough-divider. No. 1,129,765; Feb. 23; Gaz. vol. 211; p. 1206.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Machine for spacing lumps of dough. No. 1,160,791; Nov. 16; Gaz. vol. 220; p. 924.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Machine for spacing lumps of dough. No. 1,160,792; Nov. 16; Gaz. vol. 220; p. 924.
- Van Houten, Frank H., Jr., Fishkill-on-the-Hudson, N. Y. Internal-combustion engine. No. 1,133,896; Mar. 30; Gaz. vol. 212; p. 1593.
- Van Houten, Frank H., Jr., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Dough-rounding-up machine. No. 1,153,359; Sept. 14; Gaz. vol. 218; p. 391.
- Van Houten, Fred E., Kalamazoo, Mich. Step-ladder. No. 1,135,336; Apr. 13; Gaz. vol. 213; p. 488.
- Van Huzar, Curtis B., Rochester, N. Y. Mechanic's trestle. No. 1,159,299; Nov. 2; Gaz. vol. 220; p. 310.
- Van Kannel Revolving Door Company. (See Dyer, Harry W., assignor.)
- Van Keuren, Henry P. T., Philadelphia, Pa., assignor to J. C. English, Camden, N. J. Valve mechanism. No. 1,159,553; Nov. 9; Gaz. vol. 220; p. 431.
- Van Keuren, Sylvanus S., Aberdeen, S. D. Incubator. No. 1,160,793; Nov. 16; Gaz. vol. 220; p. 925.
- Van Kirk, Benjamin R., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Truck. No. 1,133,203; Mar. 23; Gaz. vol. 212; p. 1310.
- Van Kirk, Benjamin R., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Single truck. No. 1,148,344; July 27; Gaz. vol. 216; p. 1250.
- Van Kirk, Joseph E., Merchantville, N. J. Sewage apparatus. No. 1,126,136; Jan. 26; Gaz. vol. 210; p. 1150.
- Van Kolken, John, Great Falls, Mont. Sliding door. No. 1,134,781; Apr. 6; Gaz. vol. 213; p. 255.
- Van Law, Durbin, Bishop, Cal. Wheel-mounting. No. 1,155,175; Sept. 28; Gaz. vol. 218; p. 1083.
- Van Leir, Henry W., and U. D. Garver, Philadelphia, Pa.; said Garver assignor to said Van Leir. Speed-changing mechanism. No. 1,148,264; July 27; Gaz. vol. 216; p. 1220.
- Van Loozen, Fred H., Cleveland, Ohio. Spool or cord holder. No. 1,138,812; May 11; Gaz. vol. 214; p. 421.
- Van Maanen, Charles H., Central City, Ky. Lubricating device for piston-rods. No. 1,142,642; June 8; Gaz. vol. 215; p. 582.
- Van Meter, Henry R., Los Angeles, Cal. Hose-pipe coupling. No. 1,128,080; Feb. 9; Gaz. vol. 211; p. 538.
- Van Moore, George, New York, N. Y. Resoldering. No. 1,150,560; Aug. 17; Gaz. vol. 217; p. 904.
- Van Ness, Clair L., Akron, Ohio. Drafting implement. No. 1,154,673; Sept. 28; Gaz. vol. 218; p. 911.
- Van Ness, Clair L., Akron, Ohio. Insulating-head. No. 1,154,674; Sept. 28; Gaz. vol. 218; p. 912.
- Van Ness, Frank W., Milwaukee, Wis., assignor, by mesne assignments, to Richmond Radiator Company, New York, N. Y. Electrical controller. No. 1,153,978; Sept. 21; Gaz. vol. 218; p. 642.
- Van Ness, Henry E., Elmira, N. Y. Attachment for milling-machines. No. 1,138,429; May 4; Gaz. vol. 214; p. 250.
- Van Ness, Henry E., Elmira, N. Y. Safety-valve and tire-signal. No. 1,162,668; Nov. 30; Gaz. vol. 220; p. 1668.
- Van Ness, Henry E., Elmira, N. Y., assignor to E. Horton & Son Company, Windsor Locks, Conn. Drill-chuck. No. 1,159,344; Nov. 2; Gaz. vol. 220; p. 325.
- Van Ness, Howard E., Little Falls, N. J. Ball-fastener. No. 1,163,186; Dec. 7; Gaz. vol. 221; p. 158.
- Van Nice, Louise L. (See Mahnken and Van Nice.)
- Van Norman, Charles E., Springfield, Mass. Grinding-machine. (Reissue.) No. 13,892; Mar. 16; Gaz. vol. 212; p. 1022.
- Van Norman, Frederick D., Springfield, Mass. Tool-holder for lathes. No. 1,141,854; June 1; Gaz. vol. 215; p. 267.
- Van Norman, Frederick D., assignor, by mesne assignments, to Van Norman Machine Tool Company, Springfield, Mass. High-speed-spindle device. No. 1,155,176; Sept. 28; Gaz. vol. 218; p. 1083.
- Van Norman Machine Tool Company. (See Van Norman, Frederick D., assignor.)
- Van Nostrand, Charles H., Omaha, Nebr. Axle-bearing. No. 1,125,775; Jan. 19; Gaz. vol. 210; p. 989.
- Van Nostrand, George W., Greene, N. Y. Mail-transferring device. No. 1,150,909; Aug. 24; Gaz. vol. 217; p. 1081.
- Van Nostrand, William, Dalton, N. Y. Millstone-dress. No. 1,142,209; June 8; Gaz. vol. 215; p. 431.
- Van Orden, John M. (See Munro, James H., assignor.)
- Van Orden, Leander, Alameda, Cal. Saliva-ejector. No. 1,155,020; Sept. 28; Gaz. vol. 218; p. 1027.
- Van Peski, Andrianus J., Vlaardingen, Netherlands. Manufacture of anhydrides of monobasic organic carboxy-acids. No. 1,136,630; Apr. 20; Gaz. vol. 213; p. 985.
- Van Raalte, Benjamin, assignor to E. & Z. Van Raalte, New York, N. Y. Veil. No. 1,163,287; Dec. 7; Gaz. vol. 221; p. 193.
- Van Riper, Lewis C., New York, N. Y. Starting device for internal-combustion engines. No. 1,129,146; Feb. 23; Gaz. vol. 211; p. 994.
- Van Riper, Lewis C., New York, N. Y. Starting device for explosive-engines. No. 1,129,250; Feb. 23; Gaz. vol. 211; p. 1029.
- Van Riper, Lewis C., New York, N. Y. Starting device for explosive-engines. No. 1,129,251; Feb. 23; Gaz. vol. 211; p. 1030.
- Van Riper, Lewis C., New York, N. Y. Starting mechanism for explosive-engines. No. 1,129,252; Feb. 23; Gaz. vol. 211; p. 1030.
- Van Riper, Lewis C., New York, N. Y. Taking and projecting motion-pictures in colors. No. 1,130,221; Mar. 2; Gaz. vol. 212; p. 132.
- Van Riper, Lewis C., assignor to Bright Envelope Company, Chicago, Ill. Envelop. No. 1,127,703; Feb. 9; Gaz. vol. 211; p. 402.
- Van Sant, Thomas G., assignor of one-half to S. G. Dorman, Poplar Bluff, Mo. Power-transmission mechanism. No. 1,156,852; Oct. 12; Gaz. vol. 219; p. 558.
- Van Sant, Thomas G., assignor of one-half to S. G. Dorman, Poplar Bluff, Mo. Motor-vehicle. No. 1,156,853; Oct. 12; Gaz. vol. 219; p. 558.
- Van Schaick, George H., Hudson Falls, P. Burns, and J. Reardon, Fort Edward, N. Y. Flue-blower. No. 1,155,177; Sept. 28; Gaz. vol. 218; p. 1083.
- Van Sickels, Alexander O., East Haven, Conn. Game and toy. No. 1,161,552; Nov. 23; Gaz. vol. 220; p. 1240.
- Van Sickle, Kenneth J., and F. G. Trulan, Seneca Falls, N. Y. Camera. No. 1,144,267; June 22; Gaz. vol. 215; p. 1214.
- Van Sickle, Paul A., Brantford, assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Hanger for shaking-screens. No. 1,142,921; June 15; Gaz. vol. 215; p. 719.
- Van Slyke, Raymond M., assignor of one-half to H. Weddle, Whitefish, Mont. Power-transmitting device. No. 1,125,774; Jan. 19; Gaz. vol. 210; p. 988.
- Van Steenbergh, Burhans, Goshen, N. Y. Manufacturing gas. No. 1,124,364; Jan. 12; Gaz. vol. 210; p. 449.
- Van Steenbergh, Burhans, Goshen, N. Y. Manufacturing carbureted hydrogen gas. No. 1,144,800; June 29; Gaz. vol. 215; p. 1425.
- Van Steenbergh, Burhans, Goshen, N. Y. Electric heater. No. 1,144,801; June 29; Gaz. vol. 215; p. 1426.
- Van Stockum, Abraham J., Rijswijk, Netherlands. Submarine mine. No. 1,159,300; Nov. 2; Gaz. vol. 220; p. 310.
- Van Tochine, Joseph L., Fort Wayne, Ind. Collar attachment. No. 1,147,577; July 20; Gaz. vol. 216; p. 951.
- Van Tuyl, Thomas. (See Cook and Van Tuyl.)
- Van Valer, De Witt C., Richmond Hill, assignor to Modern Pen Company, New York, N. Y. Fountain-pen. No. 1,151,980; Aug. 31; Gaz. vol. 217; p. 1494.
- Van Valkenburg, Burt R., Oakland, Cal. Crescendo device. No. 1,126,137; Jan. 26; Gaz. vol. 210; p. 1151.
- Van Valkenburg, Hermon L., Norwood, Ohio, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Oil-switch. No. 1,127,119; Feb. 2; Gaz. vol. 211; p. 161.
- Van Valkenburg, Randall T., Rushville, Ind., assignor to J. N. Neal, Manistee, Mich. Producing a puncture-closing compound for pneumatic tires. No. 1,143,152; June 15; Gaz. vol. 215; p. 800.
- Van Valkenburgh, Francis D., Biloxi, Miss. Fastener for box-covers. No. 1,139,316; May 11; Gaz. vol. 214; p. 596.
- Van Vleck, John, New York, N. Y., assignor to L. B. Stillwell, Lakewood, N. J. Mechanical stoker. No. 1,151,138; Aug. 24; Gaz. vol. 217; p. 1159.

Alphabetical list of patentees—Continued.

- Van Vleck, John, New York, N. Y., assignor to L. B. Stillwell, Lakewood, N. J. Furnace-grate. No. 1,163,288; Dec. 7; Gaz. vol. 221; p. 193.
- Van Vleet, Charles W., assignor of one-eighth to H. S. Howland, Montclair, N. J., and three-eighths to J. T. Maxwell, Saugerties, N. Y. Match-boxing machine. No. 1,165,349; Dec. 21; Gaz. vol. 221; p. 998.
- Van Vleet, Charles W., assignor of one-third to J. T. Maxwell and one-third to R. E. Halsey, Saugerties, N. Y. Spring suspension for vehicles. No. 1,165,350; Dec. 21; Gaz. vol. 221; p. 999.
- Van Voorhis, Lemert C., Salt Lake City, Utah. Loose-leaf statement-book. No. 1,163,384; Dec. 7; Gaz. vol. 221; p. 227.
- Van Vorst, Charles B., and N. E. Fulkerson, Los Angeles, Cal. Mattress and cushion. No. 1,138,264; May 4; Gaz. vol. 214; p. 189.
- Van Wagenen, Edward, New York, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,145,339; July 6; Gaz. vol. 216; p. 126.
- Van Wert Beet Harvester Company, The (See Dailey and Goode, assignors.)
- Van Westrum, Leonard S., Brantford, Ontario, Canada. Paint. No. 1,127,831; Feb. 9; Gaz. vol. 211; p. 451.
- Van Wie, Edwin G., and R. W. Davenport, assignors to Detroit Stove Works, Detroit, Mich. Stove. No. 1,131,298; Mar. 9; Gaz. vol. 212; p. 540.
- Van Wie, Edwin G., and R. W. Davenport, assignors to Detroit Stove Works, Detroit, Mich. Electrical heating unit. No. 1,142,861; June 15; Gaz. vol. 215; p. 697.
- Van Wie, Edwin G., and R. W. Davenport, assignors to Detroit Stove Works, Detroit, Mich. Electrical heating unit. No. 1,142,862; June 15; Gaz. vol. 215; p. 698.
- Van Wie, Edwin G., and R. W. Davenport, assignors to Detroit Stove Works, Detroit, Mich. Electric range. No. 1,148,639; Aug. 3; Gaz. vol. 217; p. 56.
- Van Winkle, Calvin. (See Gilchrist and Van Winkle.)
- Van Winkle, Charles R., *et al.* (See Bell, Clinton L., assignor.)
- Van Winkle, George H., assignor of one-fifth to L. C. Atwater, Rochester, N. Y. Combined latch and lock. No. 1,128,392; Feb. 16; Gaz. vol. 211; p. 693.
- Van Woerden, Ysbrand, Chicago, Ill. Egg-testing apparatus. No. 1,141,593; June 1; Gaz. vol. 215; p. 180.
- Van Woert, Frank T., New York, N. Y. Artificial tooth. No. 1,142,385; June 8; Gaz. vol. 215; p. 494.
- Van Wormer and Co., J. R. (See Van Wormer, John R., assignor.)
- Van Wormer, John R., Toledo, Ohio. Folded-blank box. No. 1,123,628; Jan. 5; Gaz. vol. 210; p. 148.
- Van Wormer, John R., assignor to J. R. Van Wormer and Co., Toledo, Ohio. Folded-blank box. No. 1,157,462; Oct. 19; Gaz. vol. 219; p. 803.
- Van Wormer, John R., Toledo, Ohio, assignor to The Wels-Van Wormer Company, Monroe, Mich. Paper milk-bottle or other container. No. 1,160,677; Nov. 16; Gaz. vol. 220; p. 886.
- Van Wye, Garry P., New York, N. Y., assignor to E. Greene, Montclair, N. J. Non-refillable bottle. No. 1,163,289; Dec. 7; Gaz. vol. 221; p. 193.
- Van Zandt, Jacobs & Co. (See Shumway, Harry E., assignor.)
- Van Zile, John W., Hoboken, N. J. Nut-lock. No. 1,158,340; Oct. 26; Gaz. vol. 219; p. 1172.
- Vansdale, Oliver E., Erie, Pa. Window-screen. No. 1,141,996; June 8; Gaz. vol. 215; p. 355.
- Vance, Caughey C., Memphis, Tex. Cultivator-foot. No. 1,141,732; June 1; Gaz. vol. 215; p. 228.
- Vance Company, The. (See Vance, Lee M., assignor.)
- Vance, Lee M., Davis, Cal., assignor to The Vance Company Incorporated. Staple-retainer. No. 1,127,117; Feb. 2; Gaz. vol. 211; p. 160.
- Vance, Lee M., assignor to The Vance Company, Incorporated, Davis, Cal. Concrete-post machine. No. 1,148,063; July 27; Gaz. vol. 216; p. 1149.
- Vance, Owen E., and P. S. Baker, Muscatine, Iowa. Automatic cooker. No. 1,139,932; May 18; Gaz. vol. 214; p. 851.
- Vance, Retta H., San Francisco, Cal. Sanitary wardrobe. No. 1,157,346; Oct. 19; Gaz. vol. 219; p. 762.
- Vance, William A., Auxvasse, Mo. Auxiliary handle for tools. No. 1,161,270; Nov. 23; Gaz. vol. 220; p. 1141.
- Vanceleave, William R., Mott, N. D. Scaffold. No. 1,158,873; Nov. 2; Gaz. vol. 220; p. 163.
- Vancura, Frank, Long Island City, N. Y. Clothes-line connector. No. 1,164,559; Dec. 14; Gaz. vol. 221; p. 683.
- Vandecar, William D., Grand Rapids, Mich. Spark-plug for internal-combustion engines. No. 1,158,593; Nov. 2; Gaz. vol. 220; p. 65.
- Vandegrift, William G., Camp Hill, assignor of one-half to W. Albright, Harrisburg, Pa. Tire-vulcanizer. No. 1,146,538; July 13; Gaz. vol. 216; p. 569.
- Vandenburg, Andrew and L., Coldwater, Mich. Photographer's easel. No. 1,148,554; Aug. 3; Gaz. vol. 217; p. 25.
- Vandenburg, Leon. (See Vandenburg, Andrew and L.)
- Vanderbeek, Herbert, assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller-bearing. No. 1,144,451; June 29; Gaz. vol. 215; p. 1305.
- Vanderbos, David, Chicago, Ill. Music-leaf turner. No. 1,145,280; July 6; Gaz. vol. 216; p. 106.
- Vandercook, Albert E., Alameda, assignor to California Macvan Co., San Francisco, Cal. Apparatus for treating mixtures of liquids and solids. No. 1,135,080; Apr. 13; Gaz. vol. 213; p. 400.
- Vandercook, Albert E., Alameda, assignor to California Macvan Co., San Francisco, Cal. Treating mixtures of liquids and solids. No. 1,139,825; May 18; Gaz. vol. 214; p. 814.
- Vandercook, Albert E., Alameda, assignor to California Macvan Co., San Francisco, Cal. Classifier. No. 1,151,137; Aug. 24; Gaz. vol. 217; p. 1159.
- Vandercook, Albert E., Alameda, assignor, by mesne assignments, to California Macvan Co., San Francisco, Cal. Agitator. No. 1,156,946; Oct. 19; Gaz. vol. 219; p. 619.
- Vandercook, Frank E., Waterbury, Conn. Buckle. No. 1,145,448; July 6; Gaz. vol. 216; p. 166.
- Vandercook, Frank E., Waterbury, assignor to The Star Pin Co., Huntington, Conn. Machine for pointing pins. No. 1,150,157; Aug. 17; Gaz. vol. 217; p. 763.
- Vanderford, Marcus C. (See Reynolds, Walter M., assignor.)
- Vandergon, Arthur D., Maple Lake, Minn. Suction-curry-comb. No. 1,149,481; Aug. 10; Gaz. vol. 217; p. 456.
- Vanderhoef, Ellison E., Ruth, Nev., assignor to Edgar Allen American Manganese Steel Company, Augusta, Me. Reversible saddle-plate. No. 1,156,115; Oct. 12; Gaz. vol. 219; p. 301.
- Vanderhoef, Ellison E., Ruth, Nev., and F. E. Johnson, Salt Lake City, Utah, assignors to Edgar Allen American Manganese Steel Company, Augusta, Me. Dipper-front. No. 1,126,319; Jan. 26; Gaz. vol. 210; p. 1217.
- Vanderhoof, Charles H., New York, N. Y. Spring-jack. No. 1,145,338; July 6; Gaz. vol. 216; p. 125.
- Vanderveld, Anthony, Grand Rapids, Mich., assignor to Grand Rapids Show Case Co. Rotary display-rack. (Reissue.) No. 13,920; May 18; Gaz. vol. 214; p. 998.
- Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Display device. No. 1,157,651; Oct. 19; Gaz. vol. 219; p. 865.
- Vandervell, Charles A. (See Midgley and Vandervell.)
- Vandervell, Charles A., and A. H. Midgley, Acton Vale, England. Commutator for dynamo-machines. No. 1,143,666; June 22; Gaz. vol. 215; p. 1004.
- Vanderziel, William, and J. T. Goodall, assignors to The Caille Brothers Company, Detroit, Mich. Coin-controlled weighing mechanism. No. 1,153,650; Sept. 14; Gaz. vol. 218; p. 493.
- Vandever, Dent A., Creighton, Nebr. Milking-stool. No. 1,133,763; Mar. 30; Gaz. vol. 212; p. 1546.
- Vandewater, Daniel, Riverton, Wash. Grinding attachment for lathes. No. 1,148,729; Aug. 3; Gaz. vol. 217; p. 88.
- Vandiver, Leslie A., Chicago, Ill., assignor to Star Novelty Manufacturing Co., Shelby, Mo. Vending-machine. No. 1,145,947; July 13; Gaz. vol. 216; p. 359.
- Vandonk, Cornelius H., Wells, Mich. Locomotive spark-arrester. No. 1,151,069; Aug. 24; Gaz. vol. 217; p. 1135.
- Vandonk, Cornelius H., Wells, Mich. Freight-car stake-pocket. No. 1,156,566; Oct. 12; Gaz. vol. 219; p. 458.
- Vandy, Justin M., Atlanta, N. Y. Safety neck-yoke holder. No. 1,130,945; Mar. 9; Gaz. vol. 212; p. 418.
- Vanham, Lupton, assignor of one-half to F. W. Dixon, Jamestown, N. Y. Spinning-machine. No. 1,160,017; Nov. 9; Gaz. vol. 220; p. 598.
- Vannaman, Silas R., Chicago, Ill., assignor to American 3-Way Prism Company, Laporte, Ind. Rolling hollow-headed metal bars. No. 1,140,087; May 18; Gaz. vol. 214; p. 907.
- Vannatta, Scott, Marcellus, Mich. Oil-heater. No. 1,140,780; May 25; Gaz. vol. 214; p. 1181.
- Vannette Bobbinless Sewing Machine Company, The. (See Briggs, Arthur J., assignor.)
- Vannote, Howard B., Hasbrouck Heights, N. J. Bag-holder. No. 1,149,604; Aug. 10; Gaz. vol. 217; p. 509.
- Vansickler, James A., Toronto, Ontario, Canada. Traction-vehicle. No. 1,160,794; Nov. 16; Gaz. vol. 220; p. 925.
- Vanstrom, John, Jamestown, N. Y., assignor to American Window Screen Company, Ridgway, Pa. Sheet-metal receptacle. No. 1,133,072; Mar. 23; Gaz. vol. 212; p. 1264.
- Vansyoc, Ora N., Stratton, Colo. Windmill. No. 1,149,875; Aug. 10; Gaz. vol. 217; p. 600.
- Vantrease, Clarence O., Nashville, Tenn. Wheel for vehicles. No. 1,125,220; Jan. 19; Gaz. vol. 210; p. 790.
- Vantrees, Cevanus, Butler, Mo. Vignetter. No. 1,161,170; Nov. 23; Gaz. vol. 220; p. 1104.
- Vantuyl, Thomas. (See Cook and Vantuyl.)
- Vanyo, Joseph, Warren, Minn. Car-door lock. No. 1,148,731; Aug. 3; Gaz. vol. 217; p. 89.
- Vapor-Gas Burner Co. (See Hoch, Delton L., assignor.)
- Varache, Eugene F., Jr., Liberty, N. Mex. Adjustable and foldable sawhorse. No. 1,150,794; Aug. 17; Gaz. vol. 217; p. 983.
- Varga, Caroline, New York, N. Y. Necklace. No. 1,147,467; July 20; Gaz. vol. 216; p. 913.
- Varga, Paul, *et al.* (See Bradač, Ivan, assignor.)
- Variable Speed Gear, The. (See Wilson and Robson, assignors.)

- Variable Speed Gear Limited, The. (See Robson, John, assignor.)
- Variety Manufacturing Company. (See Gervais, Wainwright B., assignor.)
- Variety Manufacturing Company. (See Gilmore, Millard, assignor.)
- Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
- Varley, Richard, Englewood, N. J. Ignition apparatus and system of spark control. No. 1,149,798; Aug. 10; Gaz. vol. 217; p. 572.
- Varley, Richard, Englewood, N. J. Ignition system. No. 1,164,432; Dec. 14; Gaz. vol. 221; p. 639.
- Varley, Richard, Englewood, assignor to Varley Duplex Magnet Company, Jersey City, N. J. Power system for automobiles. No. 1,129,147; Feb. 23; Gaz. vol. 211; p. 994.
- Varley, Richard, Englewood, assignor to Varley Duplex Magnet Company, Jersey City, N. J. Ignition apparatus. No. 1,146,976; July 20; Gaz. vol. 216; p. 741.
- Varley, Thomas W., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,132,890; Mar. 23; Gaz. vol. 212; p. 1196.
- Varley, Thomas W., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,140,925; May 25; Gaz. vol. 214; p. 1235.
- Varnell, Clyde, Houston, Tex. Tire. No. 1,138,027; May 4; Gaz. vol. 214; p. 105.
- Varner, Edward, assignor of one-third to F. E. Mehle and one-third to J. A. Stapleton, Rochester, N. Y. Car heating and ventilating system. No. 1,139,089; May 11; Gaz. vol. 214; p. 519.
- Varney, Clayton E. (See Newhall, Louis E., assignor.)
- Varney, Everett W., Newton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-making machine. No. 1,141,289; June 1; Gaz. vol. 215; p. 71.
- Varney, Mildred A., administratrix. (See Newhall, Louis E.)
- Varney, Theodore. (See Hoopes and Varney.)
- Varney, Theodore, Pittsburgh, Pa. Catenary structure. No. 1,157,463; Oct. 19; Gaz. vol. 219; p. 804.
- Varney, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-controller. No. 1,124,678; Jan. 12; Gaz. vol. 210; p. 563.
- Varney, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overhead electric-line construction. No. 1,138,701; May 11; Gaz. vol. 214; p. 380.
- Varney, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric-line support. No. 1,138,702; May 11; Gaz. vol. 214; p. 381.
- Varney, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulator for electric circuits. No. 1,140,926; May 25; Gaz. vol. 214; p. 1236.
- Varney, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric-motor controller. No. 1,164,038; Dec. 14; Gaz. vol. 221; p. 502.
- Varnum, Edward D., San Diego, Cal. Crude-oil burner. No. 1,143,923; June 22; Gaz. vol. 215; p. 1090.
- Vartanian, Aram, Hanford, Cal. Food and making it. No. 1,152,132; Aug. 31; Gaz. vol. 217; p. 1547.
- Varvel, Sidney L., Melbourne, Victoria, Australia. Electrical water-heater. No. 1,139,001; May 11; Gaz. vol. 214; p. 488.
- Vary, Margaret, administratrix. (See Vary and Parmenter.)
- Vary, William H., deceased, Oak Park, and G. B. Parmenter, Chicago, Ill.; M. Vary, administratrix, assignor to said Parmenter. Restaurant equipment. No. 1,147,831; July 27; Gaz. vol. 216; p. 1066.
- Vasconcellos, Julio. (See Simas, Michael P., assignor.)
- Vasey, Edgar J., Cozad, Nebr. Discharge means for silos, &c. No. 1,127,324; Feb. 2; Gaz. vol. 211; p. 230.
- Vass, Stephen. (See Pribis, Rudolf, assignor.)
- Vassar Swiss Underwear Company. (See Rutledge, George E., assignor.)
- Vatcher, William H., Los Angeles, Cal., and C. H. Melcher, Douglas, Ariz.; said Melcher assignor to said Vatcher. Cap. No. 1,155,774; Oct. 5; Gaz. vol. 219; p. 155.
- Vath, Frank A., Chicago, Ill. Cooking apparatus. No. 1,135,473; Apr. 13; Gaz. vol. 213; p. 535.
- Vaughan, Charles P., Rosemont, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Joint. No. 1,127,325; Feb. 2; Gaz. vol. 211; p. 231.
- Vaughan, Samuel M., and K. Rushton, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Geared locomotive. No. 1,140,218; May 18; Gaz. vol. 214; p. 952.
- Vaudreuil, Edward J., Vaudreuil, Wis. Apparatus for cooking pulse. No. 1,131,299; Mar. 9; Gaz. vol. 212; p. 540.
- Vaudreuil, Edward J., Vaudreuil, Wis. Separator and grader. No. 1,165,469; Dec. 28; Gaz. vol. 221; p. 1079.
- Vaudreuil, Edward J., Eau Claire, Wis. Cooking pulse. No. 1,159,136; Nov. 2; Gaz. vol. 220; p. 250.
- Vaudreuil, Edward J., Eau Claire, assignor to International Canning Machinery Co., Owen, Wis. Machine for treating vegetable products for canning. No. 1,154,675; Sept. 28; Gaz. vol. 218; p. 912.
- Vaughan, Bertel F., West Haven, assignor to Sargent & Company, New Haven, Conn. Adjustable knob for planes. No. 1,149,703; Aug. 10; Gaz. vol. 217; p. 538.
- Vaughan, E. T. (See Kafader, James O., assignor.)
- Vaughan, Elbert, Portland, Oreg. Portable drag-saw machine. No. 1,165,298; Dec. 21; Gaz. vol. 221; p. 982.
- Vaughan, Frederick P., Chicago, Ill., assignor to C. E. Still, Kirksville, Mo. Tool. No. 1,135,867; Apr. 13; Gaz. vol. 213; p. 675.
- Vaughan, George W., New York, N. Y. Ballast-tamper for railway-ties. No. 1,147,660; July 20; Gaz. vol. 216; p. 980.
- Vaughan, H. A. (See Besson, William M. T., assignor.)
- Vaughan, Harry L., assignor to Crown Throat & Opener Co., Chicago, Ill. Fastening device. No. 1,145,173; July 6; Gaz. vol. 216; p. 69.
- Vaughan, Harry L., assignor to Crown Throat & Opener Company, Chicago, Ill. Key-ring. No. 1,162,955; Dec. 7; Gaz. vol. 221; p. 77.
- Vaughan, Henry H., et al. (See Burnett, Richard W., assignor.)
- Vaughan, Henry H. (See Burnett and Vaughan.)
- Vaughan, Henry H. (See Orrock, John W., assignor.)
- Vaughan, Henry H., Montreal, Quebec, Canada. Coal-shifter for locomotive-tenders. No. 1,127,118; Feb. 2; Gaz. vol. 211; p. 161.
- Vaughan, Henry H., Montreal, Quebec, Canada. Heating system for railway-cars. No. 1,131,879; Mar. 16; Gaz. vol. 212; p. 778.
- Vaughan, Henry H., Montreal, Quebec, Canada. Locomotive draw-gear. No. 1,163,119; Dec. 7; Gaz. vol. 221; p. 134.
- Vaughan, Herman W., executor. (See Grimm, Gustave H.)
- Vaughan, James C., Needmore, Okla. Whiffletree hook and clip. No. 1,144,573; June 29; Gaz. vol. 215; p. 1345.
- Vaughan, James H., Oakland, Cal. Stippling-pen. No. 1,153,468; Sept. 14; Gaz. vol. 218; p. 429.
- Vaughan, James M., Owensboro, Ky. Collapsible poultry-coop. No. 1,146,217; July 13; Gaz. vol. 216; p. 455.
- Vaughn, Bert C., Brooklyn, N. Y. Paper keg. No. 1,156,332; Oct. 12; Gaz. vol. 219; p. 373.
- Vaughn, Ernestine P., Southworth, Wash. High chair for children. No. 1,136,300; Apr. 20; Gaz. vol. 213; p. 868.
- Vaughn, Lewis C., Forkston, Pa. Steering mechanism for motor-vehicles. No. 1,152,455; Sept. 7; Gaz. vol. 218; p. 26.
- Vazquez, Jesus. (See Sala and Vazquez.)
- Veach, Joshua H., Mount Pleasant, Tex. Oil-burner. No. 1,147,661; July 20; Gaz. vol. 216; p. 981.
- Vearing, William W., Philadelphia, Pa. Bowling-alley ball-chute. No. 1,160,018; Nov. 9; Gaz. vol. 220; p. 598.
- Veazey, Victor S., Mount Hope, W. Va. Portable track-measurer. No. 1,143,467; June 15; Gaz. vol. 215; p. 911.
- Vecchini, Dominique, New York, N. Y., assignor, by mesne assignments, to Franco-American Rubber Company, Wilmington, Del. Extraction of rubber. No. 1,159,137; Nov. 2; Gaz. vol. 220; p. 251.
- Vecchini, Dominique, New York, N. Y., assignor, by mesne assignments, to Franco-American Rubber Company, Wilmington, Del. Triturating-machine. No. 1,159,138; Nov. 2; Gaz. vol. 220; p. 251.
- Vécsey, Mike, Allouez, Mich., assignor of one-fourth to I. Kaszo, Wooster, Ohio. Ship-raising apparatus. No. 1,135,338; Apr. 13; Gaz. vol. 213; p. 488.
- Vedder, John W., Wilmington, Del. Dipper for driers in paper-making machines. No. 1,145,530; July 6; Gaz. vol. 216; p. 194.
- Vedder, Joseph R., Reading, Ohio. Recorder for freight-cars. No. 1,130,452; Mar. 2; Gaz. vol. 212; p. 214.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Hub-odometer. No. 1,125,607; Jan. 19; Gaz. vol. 210; p. 927.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Carburetor. No. 1,127,120; Feb. 2; Gaz. vol. 211; p. 161.
- Veeder, Curtis H., assignor to Veeder Manufacturing Company, Hartford, Conn. Flexible shaft. No. 1,144,624; June 29; Gaz. vol. 215; p. 1363.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Manufacture of pawl-frames, &c. No. 1,149,605; Aug. 10; Gaz. vol. 217; p. 501.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Mileage-register for tires. No. 1,151,743; Aug. 31; Gaz. vol. 217; p. 1411.
- Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
- Vega Company. (See Nelson, Carl L. W., assignor.)
- Vehicle Signal Company. (See Douglass, Samuel F., assignor.)
- Veiga, Joseph E., Lowell, Mass. Padlock. No. 1,138,333; May 4; Gaz. vol. 214; p. 216.

Alphabetical list of patentees—Continued.

- Velox, Frank J., Warner, assignor of one-half to J. A. Stellner, Mansfield, S. D. Swinging reversible car-steps. No. 1,149,482; Aug. 10; Gaz. vol. 217; p. 456.
- Veith, Alfred C., Pontiac, assignor to Grant Automatic Machine Company, Detroit, Mich. Automatic lathe. No. 1,146,374; July 13; Gaz. vol. 216; p. 509.
- Veitscher Magnesitwerke Actien-Gesellschaft. (See Hemmer, Josef, assignor.)
- Velarde, Eduardo, Kansas City, Mo. Combination ironing-table and step-ladder. No. 1,140,636; May 25; Gaz. vol. 214; p. 1134.
- Veley, Carl J., and L. S. Deal, Kalamazoo, assignors to Comstock Automatic Pump Company, Comstock, Mich. Pump. No. 1,159,554; Nov. 9; Gaz. vol. 220; p. 431.
- Vele Motor Vehicle Company. (See Rose, Charles B., assignor.)
- Vetie, Silas T. (See Owens, Jasper C., assignor.)
- Veluard, André, Philadelphia, Pa. Loom for weaving pile fabrics. No. 1,159,435; Nov. 9; Gaz. vol. 220; p. 389.
- Veluard, André, Philadelphia, Pa. Loom for weaving pile fabrics. No. 1,159,436; Nov. 9; Gaz. vol. 220; p. 390.
- Venable, William M., assignor to Blaw Steel Construction Company, Pittsburgh, Pa. Tank-mold. No. 1,125,221; Jan. 19; Gaz. vol. 210; p. 791.
- Venable, William M., assignor to Blaw Collapsible Steel Centering Company, Pittsburgh, Pa. Mold. No. 1,129,144; Feb. 23; Gaz. vol. 211; p. 993.
- Venable, William M., assignor to Blaw Steel Construction Company, Pittsburgh, Pa. Column-top mold. No. 1,129,145; Feb. 23; Gaz. vol. 211; p. 993.
- Venable, William M., assignor to Blaw Steel Construction Company, Pittsburgh, Pa. Form for concrete floors or walls. No. 1,130,453; Mar. 2; Gaz. vol. 212; p. 214.
- Vene, Joseph. (See Bhm and Vene.)
- Venis, Richard. (See McCarter and Venis.)
- Venn Manufacturing Company. (See Keating, Harry J., assignor.)
- Venn-Severin Machine Co. (See Severin and Bock, assignors.)
- Venner, Robert F., London, England. Heating and cooking apparatus. No. 1,133,073; Mar. 23; Gaz. vol. 212; p. 1264.
- Venske, Paul C., assignor, by mesne assignments, to I. C. O'Keeffe, Chicago, Ill. Wheel. No. 1,159,555; Nov. 9; Gaz. vol. 220; p. 432.
- Venturi Alarm Company. (See Shipman, Edward F., assignor.)
- Ver Planck, William E., Erie, Pa., assignor to General Electric Company. Piston-cooling means. No. 1,157,347; Oct. 19; Gaz. vol. 219; p. 763.
- Ver Planck, William E., Erie, Pa., assignor to General Electric Company. Emergency mechanism for internal-combustion engines. No. 1,166,281; Dec. 28; Gaz. vol. 221; p. 1369.
- Ver Planck, William E., and L. V. Stoeltzlen, Erie, Pa., assignors to General Electric Company. Internal-combustion engine. No. 1,157,914; Oct. 26; Gaz. vol. 219; p. 1023.
- Veranich, Frank X., assignor of one-half to F. Brandstätter, West Allis, Wis. Fire-alarm system. No. 1,160,795; Nov. 16; Gaz. vol. 220; p. 926.
- Verberckmoes, Louis F., Anaconda, Mont. Watchcase-crown. No. 1,152,673; Sept. 7; Gaz. vol. 218; p. 109.
- Verciaire, Walter E., Chicago, Ill. Aeroplane. No. 1,148,875; Aug. 3; Gaz. vol. 217; p. 139.
- Verge, Alphonse E. (See Maire, Jules, assignor.)
- Verges Manufacturing Company. (See Jaeckel, Adolph, assignor.)
- Verity, Morley F., Brantford, assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Automatic feed for grain-grinder and the like. No. 1,166,024; Dec. 28; Gaz. vol. 221; p. 1273.
- Verity, William J., Brantford, assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Grain-grinder. No. 1,127,947; Feb. 9; Gaz. vol. 211; p. 492.
- Vermeer, Herbert, Los Angeles, Cal. Stand for motorcycles. No. 1,156,567; Oct. 12; Gaz. vol. 219; p. 458.
- Vermeer, Herbert, Los Angeles, Cal. Stand for motorcycles. No. 1,156,568; Oct. 12; Gaz. vol. 219; p. 458.
- Vermehren, Johannes, assignor to Aktieselskabet Vermehrens Regnemaskiner, Hellerup, near Copenhagen, Denmark. Machine for the effecting of multiplications. No. 1,134,169; Apr. 6; Gaz. vol. 213; p. 31.
- Vermilyea, Ira. (See Honold, Frank, assignor.)
- Vermont Farm Machine Company. (See Kimball, Perley L., assignor.)
- Vernet, Charles, Dinan, France. Walking-stick transformable into a seat. No. 1,157,604; Oct. 19; Gaz. vol. 219; p. 849.
- Vernon, Arthur B., Chicago, Ill. Vehicle-tractor. No. 1,147,581; July 20; Gaz. vol. 216; p. 952.
- Vernon, Frederick L., Newton, Iowa. Memorandum device. No. 1,136,186; Apr. 20; Gaz. vol. 213; p. 826.
- Vernon, James B., Pittsburgh, and M. J. Sleffert, Wireton, Pa. Compression and suction device. No. 1,142,544; June 8; Gaz. vol. 215; p. 550.
- Vernon, Thomas T., Chester, England. Treating flour and product thereof. No. 1,155,977; Oct. 5; Gaz. vol. 219; p. 226.
- Vernon, Walter, Columbus, Ohio. Device for connecting handles to brushes. No. 1,166,280; Dec. 28; Gaz. vol. 221; p. 1369.
- Verona Tool Works. (See Richardson, Andrew T., assignor.)
- Verona Tool Works. (See Woodings, Emanuel, assignor.)
- Verplanck, Holly M., assignor to Lansing Company, Lansing, Mich. Truck. No. 1,150,082; Aug. 17; Gaz. vol. 217; p. 734.
- Verrill, Calvin M. (See Metzger, Altendorf, and Verrill.)
- Vershofen, Wilhelm, Jena, Germany. Toy blocks for building arches. No. 1,124,078; Jan. 5; Gaz. vol. 210; p. 299.
- Verstraete, Arthur, New Rochelle, N. Y. Cruller-cutter. No. 1,140,219; May 18; Gaz. vol. 214; p. 952.
- Vertunni, Joseph, Long Beach, Cal. Target. No. 1,161,171; Nov. 23; Gaz. vol. 220; p. 1104.
- Vesich, Max, Chicago, Ill. Motor-cycle prop. No. 1,137,368; Apr. 27; Gaz. vol. 213; p. 1289.
- Vesper, William C., Staunton, Ill. Gate-latch. No. 1,138,516; May 4; Gaz. vol. 214; p. 278.
- Vest, Eugene W., Tacoma, Wash. Water-heater for ranges, &c. No. 1,131,634; Mar. 9; Gaz. vol. 212; p. 657.
- Vest, Eugene W., Tacoma, Wash. Latching device. No. 1,136,065; Apr. 20; Gaz. vol. 213; p. 784.
- Vest, Harvey P., Estelline, Tex., assignor of one-half to A. D. Hanna, Wax. No. 1,139,603; May 18; Gaz. vol. 214; p. 735.
- Vesta Accumulator Company. (See Heizer, Alexander L., assignor.)
- Vesta Manufacturing Co. (See Creamer, John R., assignor.)
- Vesterling, August, Battersea Park, London, England. Filing means for records, letters, and other documents. No. 1,142,643; June 8; Gaz. vol. 215; p. 583.
- Vesterling, August, Battersea Park, London, England. Filing of records, letters, and other documents. No. 1,142,644; June 8; Gaz. vol. 215; p. 583.
- Vestine, Andrew O., Dorchester, assignor, by mesne assignments, to J. E. Doyle, Worcester, Mass. Receipt. No. 1,138,517; May 4; Gaz. vol. 214; p. 279.
- Vetter, Clarence A., Pittsburgh, Pa. Weatherproof cap and shell for incandescent electric lamps. No. 1,127,326; Feb. 2; Gaz. vol. 211; p. 231.
- Vetter, Clarence A., Pittsburgh, Pa. Incandescent electric lamp. No. 1,157,464; Oct. 19; Gaz. vol. 219; p. 804.
- Vetter, Frederick C., assignor to Hawkeye Pearl Button Company, Muscatine, Iowa. Button-container. No. 1,156,644; Oct. 12; Gaz. vol. 219; p. 485.
- Vetterlein, Henry M. (See Seely and Vetterlein.)
- Vezie, Elmer C., Washington, Pa. Pump-piston. No. 1,162,265; Nov. 30; Gaz. vol. 220; p. 1534.
- Viall, William G., Bridgeport, Conn. Rotor for motors. No. 1,126,594; Jan. 26; Gaz. vol. 210; p. 1318.
- Viall, William G., Bridgeport, Conn. Time-reckoning device. No. 1,153,469; Sept. 14; Gaz. vol. 218; p. 430.
- Vibber, Wheeler H., assignor of one-half to The Gillette Vibber Co., New London, Conn. Box-connector for electric installation. No. 1,134,565; Apr. 6; Gaz. vol. 213; p. 176.
- Viberg, Ernest R., Montreal, Quebec, Canada. Combined end-stake pockets and end-sill brace. No. 1,137,812; May 4; Gaz. vol. 214; p. 31.
- Vicars, Edward L. (See Vicars, Thomas, J., and E. L.)
- Vicars, John. (See Vicars, Thomas, J., and E. L.)
- Vicars, Thomas, J., and E. L., Earlestown, England. Oven. No. 1,133,684; Mar. 30; Gaz. vol. 212; p. 1519.
- Vicars, Thomas, J., and E. L., Earlestown, England. Oven. No. 1,148,265; July 27; Gaz. vol. 216; p. 1220.
- Vicars, Thomas, J., and E. L., Earlestown, England. Biscuit-icing machine. No. 1,153,585; Sept. 14; Gaz. vol. 218; p. 472.
- Viche, Joseph G., Duluth, Minn. Toe-board. No. 1,139,240; May 11; Gaz. vol. 214; p. 571.
- Vick, Rollo M., Detroit, Mich., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,147,055; July 20; Gaz. vol. 216; p. 769.
- Vick, Rollo M., assignor to The Goodline Manufacturing Company, Kent, Ohio. Desk-calendar. No. 1,159,881; Nov. 9; Gaz. vol. 220; p. 550.
- Vickers, Albert, and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Loading apparatus of breech-loading guns. No. 1,128,555; Feb. 16; Gaz. vol. 211; p. 751.
- Vickers, Charles, Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Alloys or compounds for improving copper and its alloys. No. 1,151,744; Aug. 31; Gaz. vol. 217; p. 1412.
- Vickers, Frank D., assignor to Renfrew Machinery Company Limited, Renfrew, Ontario, Canada. Cream-separator. No. 1,125,776; Jan. 19; Gaz. vol. 210; p. 989.
- Vickers, Joseph, San Diego, Cal. Collapsible core for cement-molds. No. 1,137,932; May 4; Gaz. vol. 214; p. 73.
- Vickers Limited. (See Bourcier, Gabriel, assignor.)
- Vickers Limited. (See Dawson and Buckham, assignors.)
- Vickers Limited. (See Dawson and Horne, assignors.)
- Vickers Limited. (See Elia, Giovanni E., assignor.)
- Vickers Limited. (See McKechnie, James, assignor.)
- Vickers Limited. (See Smith, Franklin E., assignor.)
- Vickers Limited. (See Vickers, Vincent C., assignor.)
- Vickers Limited. (See Vickers and Buckham, assignors.)
- Vickers Sons & Maxim. (See Leake, Henry C., assignor.)

Alphabetical list of patentees—Continued.

- Vickers, Vincent C., assignor to Vickers Limited, Westminster, London, England. Door-latch. No. 1,147,284; July 20; Gaz. vol. 216; p. 847.
- Vickery, Frederick W., London, England. Laying-machine. No. 1,144,268; June 22; Gaz. vol. 215; p. 1214.
- Vickery, Frederick W., London, England. Paper pilling or laying machine. No. 1,144,269; June 22; Gaz. vol. 215; p. 1215.
- Vickery, John R., Chicago, Ill. Vehicle-tire. No. 1,138,813; May 11; Gaz. vol. 214; p. 422.
- Vickery, John R., Chicago, Ill. Vehicle-wheel. No. 1,154,948; Sept. 28; Gaz. vol. 218; p. 1002.
- Victor Engineering Company. (See Diefenderfer, Victor J., assignor.)
- Victor, Etta. (See Steinman, Joseph, assignor.)
- Victor Safe & Lock Co. (See Rodler, Frederick W., assignor.)
- Victor Safe & Lock Company, The. (See Haustetter, Alfred P., assignor.)
- Victor Safe & Lock Company, The. (See Kline, Everett C., assignor.)
- Victor Shoe Machinery Co. (See Johnson, Lawrence E., assignor.)
- Victor Shoe Machinery Co. (See Johnson and Erickson, assignors.)
- Victor Shoe Machinery Company. (See Erickson, Edward, assignor.)
- Victor Specialty Company, The. (See Kress, Jacob A., assignor.)
- Victor Talking Machine Company. (See Dennison, Wilburn N., assignor.)
- Victor Talking Machine Company. (See Diehl, Albert C., assignor.)
- Victor Talking Machine Company. (See Johnson and English, assignors.)
- Victor Talking Machine Company. (See Miller, Henry C., assignor.)
- Victor Talking Machine Company. (See Sanders, Joseph, assignor.)
- Victor Typewriter Company. (See Hagerstrom, John A., assignor.)
- Victory, Andrew J., Broad Brook, Conn. Projectile. No. 1,151,070; Aug. 24; Gaz. vol. 217; p. 1136.
- Vidal, Norman C., and J. A. Mathers, Grenfell, Saskatchewan, Canada. Grain-car door. No. 1,148,064; July 27; Gaz. vol. 216; p. 1149.
- Videgaray, Federico, Mexico, Mexico. Support for garment-hangers. No. 1,159,342; Nov. 2; Gaz. vol. 220; p. 324.
- Vidotto, Harold, Bellingham, Wash. Link-press. No. 1,137,813; May 4; Gaz. vol. 214; p. 32.
- Vie-Theer, Blanch, Marshfield, Oreg. Tumbling figure toy. No. 1,155,692; Oct. 5; Gaz. vol. 219; p. 128.
- Vigtor, Alwin, Wiesbaden, assignor to Georgs-Marlen-Berzwerks- & Hütten-Verein A.-G., Osnabrück, Germany. Railway-tie. No. 1,163,717; Dec. 14; Gaz. vol. 221; p. 390.
- Vig, Joseph, Witherbee, N. Y. Parachute. No. 1,131,300; Mar. 9; Gaz. vol. 212; p. 541.
- Vignoles Rail Chair Company. (See Liebmann, August G., assignor.)
- Viking Manufacturing Company Limited. (See Hart, Alice M., assignor.)
- Vilkomerson, Elizabeth F., New York, N. Y. Fountain-pen holder. No. 1,133,897; Mar. 30; Gaz. vol. 212; p. 1394.
- Vilkomerson, Elizabeth F., New York, N. Y. Holder for fountain-pens. No. 1,166,282; Dec. 28; Gaz. vol. 221; p. 1369.
- Villars, Claude A., *et al.* (See Schramm, Frederick C., assignor.)
- Villemin, Peter L., Columbus, Ohio. Fluid-indicator for refrigerator drip-pans. No. 1,152,243; Aug. 31; Gaz. vol. 217; p. 1585.
- Vilmar, Francisco. (See Preuss, Henry A., assignor.)
- Vinal, Charles H., Appleton, Wis. Concrete-mixer. No. 1,134,300; Apr. 6; Gaz. vol. 213; p. 79.
- Vincent, George H., Welty, Okla. Cotton-picking device. No. 1,128,556; Feb. 16; Gaz. vol. 211; p. 751.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,147,056; July 20; Gaz. vol. 216; p. 769.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,157,068; Oct. 19; Gaz. vol. 219; p. 664.
- Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,157,465; Oct. 19; Gaz. vol. 219; p. 804.
- Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 1,166,096; Dec. 28; Gaz. vol. 221; p. 1299.
- Vincent, John R. A., San Francisco, Cal. Cordage-machine. No. 1,127,551; Feb. 9; Gaz. vol. 211; p. 351.
- Vincent, William J., Cardiff, Wales. Rotary pump and motor. No. 1,135,414; Apr. 13; Gaz. vol. 213; p. 515.
- Viner, Leverett F., Worcester, Mass. Clock. No. 1,135,228; Apr. 13; Gaz. vol. 213; p. 449.
- Vinger, Henry E., Barron, Wis. Heater for a range and coil. No. 1,153,408; Sept. 14; Gaz. vol. 218; p. 408.
- Vinnedge, John S., Ogd, Nebraska. Veterinary instrument. No. 1,162,669; Nov. 30; Gaz. vol. 220; p. 1668.
- Vintila, John, Cleveland, Ohio. Aeroplane. No. 1,158,594; Nov. 2; Gaz. vol. 220; p. 65.
- Vinyard, Roy M., Bend, Oreg. Feed mechanism. No. 1,135,868; Apr. 13; Gaz. vol. 213; p. 675.
- Violi, Claude V., assignor of one-half to F. E. McGee, Springfield, Mass. Tire-holder. No. 1,149,606; Aug. 10; Gaz. vol. 217; p. 501.
- Virden, Orville, St. Louis, Mo. Underfeed firing device. No. 1,153,979; Sept. 21; Gaz. vol. 218; p. 642.
- Vires, Columbus L., Bristol, Va. Liquid-cooler. No. 1,161,088; Nov. 23; Gaz. vol. 220; p. 1074.
- Virgin, Fritz W., Sr., Yonkers, N. Y. Carom bowling-alley. No. 1,124,365; Jan. 12; Gaz. vol. 210; p. 449.
- Virginia Laboratory Company. (See Von Kügelgen and Seward, assignors.)
- Virginia Refrigerator Corporation. (See Coleman, Clyde J., assignor.)
- Virginia Trust Company, executor. (See Clarke, Edward S.)
- Virneburg, George, Chicago, Ill. Abrasive. No. 1,141,371; June 1; Gaz. vol. 215; p. 102.
- Virovatz, Joe, and J. Kiraly, Oneida, Wis. Rail-fastener. No. 1,132,410; Mar. 16; Gaz. vol. 212; p. 972.
- Vis, Gerhard N., Cuise-Lamotte, France. Manufacturing ammonium sulfate. No. 1,152,244; Aug. 31; Gaz. vol. 217; p. 1585.
- Vis, Gerhard N., Cuise-Lamotte, France. Obtaining ammonium sulfate. No. 1,152,245; Aug. 31; Gaz. vol. 217; p. 1585.
- Viscose Development Company, The. (See Morford, James R., assignor.)
- Visser, John P., *et al.* (See Martin, William H., assignor.)
- Viste, John J., Ada, Minn. Transmission mechanism for tractors. No. 1,158,087; Oct. 26; Gaz. vol. 219; p. 1084.
- Vitas, Marcel, Lucense, Pa. Tie-plate. No. 1,133,898; Mar. 30; Gaz. vol. 212; p. 1594.
- Vitek, Charles J. (See Heck and Vitek.)
- Vitek, Vaclav J., Cincinnati, Ohio. Mowing-machine for sugar-cane. No. 1,152,994; Sept. 7; Gaz. vol. 218; p. 226.
- Vivell, Joseph, Berlin, Germany, assignor to General Electric Company. Electric meter. No. 1,156,827; Oct. 12; Gaz. vol. 219; p. 548.
- Viviani, Benigno, Monessen, Pa. Mining-machine. No. 1,154,459; Sept. 21; Gaz. vol. 218; p. 808.
- Vjeha, Victor, Cleveland, Ohio. Conveying and discharging apparatus. No. 1,157,466; Oct. 19; Gaz. vol. 219; p. 805.
- Vlchek, Frank J., Cleveland, Ohio. Valve-spring lifter. No. 1,159,626; Nov. 9; Gaz. vol. 220; p. 458.
- Vliet, William A., Cleveland, Ohio. Catalogue-binder. No. 1,126,138; Jan. 26; Gaz. vol. 210; p. 1151.
- Voodisch, Alfred W., Aberdeen, S. D. Electric time-switch. No. 1,143,869; June 22; Gaz. vol. 215; p. 1073.
- Voelker, George, St. Paul, Minn. Type-writing machine. No. 1,128,736; Feb. 16; Gaz. vol. 211; p. 812.
- Voelker, George, St. Paul, Minn. Type-writing machine. No. 1,130,776; Mar. 9; Gaz. vol. 212; p. 360.
- Voelker, George, St. Paul, Minn. Type-writing machine. No. 1,153,651; Sept. 14; Gaz. vol. 218; p. 494.
- Voelker, George, St. Paul, Minn. Type-writing machine. No. 1,163,048; Dec. 7; Gaz. vol. 221; p. 109.
- Voelker, John P., New York, N. Y. Extension bracket-hinge. No. 1,158,341; Oct. 26; Gaz. vol. 219; p. 1172.
- Voelker, Paul H., and K. Kimmich, New York, N. Y. Beustead. No. 1,133,899; Mar. 30; Gaz. vol. 212; p. 1594.
- Voelker, Richard J., St. Louis, Mo. Aerial-ladder truck. No. 1,143,560; June 15; Gaz. vol. 215; p. 942.
- Voelpel, Charles W. (See Connor and Voelpel.)
- Voelpel, Charles W. (See Connor, Voelpel, and Connor.)
- Vozan, Frank M., Canton, Ohio. Metallic tile for roofing. No. 1,125,414; Jan. 19; Gaz. vol. 210; p. 861.
- Vogan, Frank M., Canton, Ohio. Concrete construction. No. 1,141,671; June 1; Gaz. vol. 215; p. 208.
- Vogel, A. W. (See Morgan, Richard W., assignor.)
- Vogel, Carolina, administratrix. (See Vogel, Henry C.)
- Vogel, Frank, Chicago Junction, Ohio. Coin tube and tray. No. 1,139,604; May 18; Gaz. vol. 214; p. 735.
- Vogel, Frederick M., Pittsfield, Mass., assignor to General Electric Company. Electric heating device. No. 1,128,081; Feb. 9; Gaz. vol. 211; p. 538.
- Vogel, George H., B. D. Lobdell, and J. E. Ball, Syracuse, N. Y.; said Lobdell assignor to said Vogel and said Ball. Sectional spring-tire. No. 1,156,333; Oct. 12; Gaz. vol. 219; p. 373.
- Vogel, Hans. (See Rogenhogen and Vogel.)
- Vogel, Henry C., deceased, Philadelphia, Pa.; C. Vogel, administratrix. Combined table and clothes-drier. No. 1,135,637; Apr. 13; Gaz. vol. 213; p. 594.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Panic-bolt. No. 1,163,795; Dec. 14; Gaz. vol. 221; p. 418.
- Vogel, Herman A., Kiel, Wis. Grain-divider. No. 1,131,186; Mar. 9; Gaz. vol. 212; p. 500.
- Vogel, John C. (See De Vore, Charles D., assignor.)
- Vogel, Leopold H., and J. Burrows, Boston, Mass. Refrigerator. No. 1,143,243; June 15; Gaz. vol. 215; p. 835.
- Vogel, Morton J., *et al.* (See Brown, David L., assignor.)
- Vogel, Paul F., Belleville, Ill. Manufacturing fabric. No. 1,137,434; Apr. 27; Gaz. vol. 213; p. 1312.

Alphabetical list of patentees—Continued.

- Vogel, Paul R., Chicago, Ill. Cabinet. No. 1,160,218; Nov. 16; Gaz. vol. 220; p. 721.
- Vogel, Theodor. (See Nies, Vogel, and Berg.)
- Vogelsang, John B., Webster Groves, Mo. Device for combining and emulsifying substances. No. 1,140,548; May 25; Gaz. vol. 214; p. 1105.
- Vogelsang, John B., Webster Groves, Mo. Combining and emulsifying two or more liquids. No. 1,152,456; Sept. 7; Gaz. vol. 218; p. 26.
- Vogelsang, Max, assignor to Voigt & Haefner Actien Gesellschaft, Frankfurt-on-the-Main, Germany. Drum-switch with maximum cut-out. No. 1,155,978; Oct. 5; Gaz. vol. 219; p. 226.
- Vögler, Albert, assignor to Deutsch-Luxemburgische Bergwerks- und Hütten-Aktiengesellschaft, Dortmund, Germany. Refining steel and producing high-phosphorus slag. No. 1,137,681; Apr. 27; Gaz. vol. 213; p. 1393.
- Vogt, Anton, assignor to E. C. Tecktonius Manufacturing Co., Racine, Wis. Kiln. No. 1,153,980; Sept. 21; Gaz. vol. 218; p. 643.
- Vogt, Axel S., Altoona, Pa. Automatic oil-feeding device. No. 1,141,733; June 1; Gaz. vol. 215; p. 229.
- Vogt, Clarence W., Louisville, Ky. Ammonia-absorber. No. 1,149,005; Aug. 3; Gaz. vol. 217; p. 184.
- Vogt, Henry H. (See Holm, Hans P., assignor.)
- Vogt, Johann, Göppingen, Germany. Drying boards and the like. No. 1,134,247; Apr. 6; Gaz. vol. 213; p. 60.
- Vogt, Louis F., Washington, Pa. Treatment of vanadium ore. No. 1,129,253; Feb. 23; Gaz. vol. 211; p. 1031.
- Vogt, Louis F., Washington, assignor to Standard Chemical Company, Pittsburgh, Pa. Metallurgical process. No. 1,129,029; Feb. 16; Gaz. vol. 211; p. 917.
- Voiges, Paul. (See Schaub, Emil, assignor.)
- Voight, George F., San Francisco, Cal. Door-hanger. No. 1,157,467; Oct. 19; Gaz. vol. 219; p. 805.
- Voight, Henry G., Hartford, Conn. Combined door closer and check. No. 1,140,637; May 25; Gaz. vol. 214; p. 1134.
- Voight, Henry G., assignor to American Hardware Corporation, New Britain, Conn. Panic-bolt construction. No. 1,125,222; Jan. 19; Gaz. vol. 210; p. 791.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,152,457; Sept. 7; Gaz. vol. 218; p. 26.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,161,553; Nov. 23; Gaz. vol. 220; p. 1240.
- Voigt, Albert, New York, N. Y. Locking device for doors. No. 1,131,752; Mar. 16; Gaz. vol. 212; p. 732.
- Voigt, Albert, New York, N. Y. Separator and track for sliding doors. No. 1,136,631; Apr. 20; Gaz. vol. 213; p. 985.
- Voigt, Frederick A., Chicago, Ill. Safety device for scaffold workmen. No. 1,127,832; Feb. 9; Gaz. vol. 211; p. 451.
- Voigt, George F., Charlestown, Ind. Supply-valve. No. 1,143,000; June 15; Gaz. vol. 215; p. 747.
- Voigt, George F., Charlestown, Ind. Pipe-jack. No. 1,143,739; June 22; Gaz. vol. 215; p. 1028.
- Voigt, George F., Charlestown, Ind. Valve-catch. No. 1,161,554; Nov. 23; Gaz. vol. 220; p. 1241.
- Voigt & Haefner Actien Gesellschaft. (See Besag, Ernst, assignor.)
- Voigt & Haefner Actien Gesellschaft. (See Vogelsang, Max, assignor.)
- Voigt, John T., Richmond Beach, Wash. Gold-saving machine. No. 1,160,550; Nov. 16; Gaz. vol. 220; p. 838.
- Voigt, Philip H., and O. C. Kuehne, Houston, Tex. Winding-drum. No. 1,133,592; Mar. 30; Gaz. vol. 212; p. 1484.
- Voightmann & Company. (See Iman, Orla H., assignor.)
- Voickening, Charles K., New York, N. Y. Bottle-washer brush. No. 1,160,551; Nov. 16; Gaz. vol. 220; p. 838.
- Vold, Ole G., Dawson, Minn. Seed-corn crate and drier. No. 1,166,283; Dec. 28; Gaz. vol. 221; p. 1370.
- Volk, Charles E., Erie, Pa. Glass-blowing machine. No. 1,133,764; Mar. 30; Gaz. vol. 212; p. 1546.
- Volkhardt, William, Stapleton, N. Y. Portable wardrobe rack. No. 1,159,813; Nov. 9; Gaz. vol. 220; p. 526.
- Volkmann, Charles, Chicago, Ill. Cotton-picker. No. 1,145,174; July 6; Gaz. vol. 216; p. 70.
- Völler, Karl, Dusseldorf, assignor to Rheinische Metallwarenen- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Gun adapted to be fired at high elevations. No. 1,131,445; Mar. 9; Gaz. vol. 212; p. 590.
- Völler, Karl, Dusseldorf, assignor to Rheinische Metallwarenen- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Aiming device for ordnance. No. 1,133,765; Mar. 30; Gaz. vol. 212; p. 1546.
- Vollmann, Carl W., Montreal, Quebec, Canada. Ice-manufacturing apparatus. No. 1,129,923; Mar. 2; Gaz. vol. 212; p. 31.
- Vollmer, Charles, Rockaway Beach, N. Y. Resilient wheel. No. 1,160,470; Nov. 16; Gaz. vol. 220; p. 808.
- Vollmer, William and W. S., Burnham, Pa. Retainer for box-lids. No. 1,144,851; June 29; Gaz. vol. 215; p. 1454.
- Vollmer, William S. (See Vollmer, William and W. S.)
- Vollrath, Walter J., Sheboygan, Wis., and M. M. Cohen, Chicago, Ill., assignors to Porcelain Enameling Association of America, Sheboygan, Wis. Receptacle-cover. No. 1,153,586; Sept. 14; Gaz. vol. 218; p. 473.
- Volotone Company. (See Hornbeck, Henry S., assignor.)
- Volotone Company. (See Newcomer, Martin, assignor.)
- Volpe, William, Philadelphia, Pa. Trolley-head. No. 1,146,040; July 13; Gaz. vol. 216; p. 393.
- Volute Spring Shock Absorber Company. (See Rock, John G., assignor.)
- Volvox Machine Co. (See Stelter, Francis C. W., assignor.)
- Volz, Christ. (See Allinger, Frank A., assignor.)
- Volz, Joseph, Elliott, N. D. Fanning-mill. No. 1,132,501; Mar. 16; Gaz. vol. 212; p. 1006.
- Volz, Simon, Milwaukee, Wis. Machine for removing labels from crates. No. 1,158,752; Nov. 2; Gaz. vol. 220; p. 119.
- Volzer, Francis X. (See Karcher, Otto, assignor.)
- Vom Eigen, Benno, Newark, N. J., assignor to Aug. Goertz & Co. Bag-frame. No. 1,153,652; Sept. 14; Gaz. vol. 218; p. 494.
- Vom Eigen, Benno, Newark, N. J., assignor to August Goertz & Co. Bag-frame fastener. No. 1,153,654; Sept. 14; Gaz. vol. 218; p. 494.
- Von Barth, Arthur, Perth Amboy, N. J. Paper-currency and bill counting machine. No. 1,146,908; July 20; Gaz. vol. 216; p. 716.
- Von Bültingslöwen, Bruno, assignor of one-half to M. Rubens and one-half to R. R. Debacher, New York, N. Y. Cutter. No. 1,152,577; Sept. 7; Gaz. vol. 218; p. 74.
- Von Culin, Clayton, New York, N. Y. Safety attachment for lamps. No. 1,132,810; Mar. 23; Gaz. vol. 212; p. 1168.
- Von Culin, Clayton, New York, N. Y. Incubator. No. 1,162,420; Nov. 30; Gaz. vol. 220; p. 1586.
- Von der Lin, Simon J. (See Von der Lin, Valentine and S. J.)
- Von der Lin, Valentine and S. J., New York, N. Y. Furniture-tread. No. 1,123,959; Jan. 5; Gaz. vol. 210; p. 258.
- Von der Lin, Valentine and S. J., New York, N. Y. Furniture-tread. No. 1,123,960; Jan. 5; Gaz. vol. 210; p. 258.
- Von der Lin, Valentine and S. J., New York, N. Y. Furniture-tread. No. 1,165,046; Dec. 21; Gaz. vol. 221; p. 893.
- Von Dorn, Calvin W., Albuquerque, N. Mex., assignor of one-third to C. K. Schafer, Naco, Ariz. Collapsible fly-trap. No. 1,136,452; Apr. 20; Gaz. vol. 213; p. 922.
- Von Duprin Fire Exit Latch Company. (See Prinzler, Carl J., assignor.)
- Von Eschen, Edward L. and E. B., Kirksville, Mo. Policeman's billy. No. 1,130,355; Mar. 2; Gaz. vol. 212; p. 178.
- Von Eschen, Eleanor B. (See Von Eschen, Edward L. and E. B.)
- Von Forsman, Andrew, Iron River, Mich. Fender for ships. No. 1,135,415; Apr. 13; Gaz. vol. 213; p. 515.
- Von Glahn, George J., Brooklyn, N. Y. Pipe-fitting. No. 1,137,556; Apr. 27; Gaz. vol. 213; p. 1353.
- Von Hacht, William, C. R. Taylor, and W. F. Clewe, Sonoma, Cal. Rotary valve. No. 1,154,899; Sept. 28; Gaz. vol. 218; p. 986.
- Von Hassel, Georg M., New York, N. Y. Plant lifting and transplanting machine. No. 1,129,924; Mar. 2; Gaz. vol. 212; p. 32.
- Von Hiddessen, Otto, Sauk City, Wis. Holder for sashes, doors, and the like. No. 1,127,833; Feb. 9; Gaz. vol. 211; p. 452.
- Von Hohenstein, Charles H., San Antonio, Tex. Hydrocarbon-burner. No. 1,152,674; Sept. 7; Gaz. vol. 218; p. 109.
- Von Kugelgen, Franz, Holcombs Rock, Va., and G. O. Seward, East Orange, N. J., assignors to Virginia Laboratory Company, New York, N. Y. Production of aluminum chlorid. No. 1,147,832; July 27; Gaz. vol. 216; p. 1066.
- Von Lászlóffy, Aladár, Peoria, Ill. Manufacture of by-products from distillery-slop. No. 1,147,767; July 27; Gaz. vol. 216; p. 1043.
- Von Lászlóffy, Aladár, Peoria, Ill. Obtaining by-products from distillery-slop. No. 1,147,768; July 27; Gaz. vol. 216; p. 1044.
- Von Lászlóffy, Aladár, Peoria, Ill. Manufacture of by-products from distillery-slop. No. 1,147,769; July 27; Gaz. vol. 216; p. 1044.
- Von Lászlóffy, Aladár, Peoria, Ill. Recovering by-products from distillery-slop. No. 1,147,770; July 27; Gaz. vol. 216; p. 1044.
- Von Oefele, Felix, New York, N. Y. Compound of vanadium and selenium. No. 1,154,949; Sept. 28; Gaz. vol. 218; p. 1003.
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Multiple register. No. 1,123,433; Jan. 5; Gaz. vol. 210; p. 81.
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Cash and autographic register. No. 1,131,753; Mar. 16; Gaz. vol. 212; p. 732.
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,131,754; Mar. 16; Gaz. vol. 212; p. 732.

- Von Pein, Edward J., assignor to National Cash Register Company, Dayton, Ohio. Credit-cabinet. No. 1,134,248; Apr. 6; Gaz. vol. 213; p. 60.
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Multiple cash-register. No. 1,153,360; Sept. 14; Gaz. vol. 218; p. 391.
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,156,258; Oct. 12; Gaz. vol. 219; p. 348.
- Von Philp, Casimir, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Valve. No. 1,157,196; Oct. 19; Gaz. vol. 219; p. 709.
- Von Philp, Hjalmar C., Bethlehem, Pa. Safe or vault joint. No. 1,157,469; Oct. 19; Gaz. vol. 219; p. 806.
- Von Phul, William, New Orleans, La., assignor to Ford, Bacon & Davis, New York, N. Y. Bale or package removing mechanism. No. 1,149,310; Aug. 10; Gaz. vol. 217; p. 397.
- Von Phul, William, A. L. Black, and A. M. Lockett, New Orleans, La., assignors to Ford, Bacon & Davis, New York, N. Y. Bale or package removing mechanism. No. 1,149,309; Aug. 10; Gaz. vol. 217; p. 396.
- Von Schluembach, Adolph, Altoona, Pa. Folding crate or box. No. 1,138,814; May 11; Gaz. vol. 214; p. 422.
- Von Uffel, Herman, Philadelphia, Pa. Standing weather-proof seam for felt roofing. No. 1,144,265; June 22; Gaz. vol. 215; p. 1213.
- Von Uffel, Herman, Philadelphia, Pa. Standing weather-proof seam for roofing-felt. No. 1,147,582; July 20; Gaz. vol. 216; p. 952.
- Von Unschuld-Lazard, Marie, Washington, D. C. Art of and means for piano technic instruction. No. 1,133,074; Mar. 23; Gaz. vol. 212; p. 1264.
- Von Wilmsky, Erwin F., deceased, Boston, Mass.; E. J. Prindle, executor, East Orange, N. J., assignor to Norsk Hydro-Elektrisk Kvaestofaktieselskab. Electric furnace and heating substances uniformly and at a controllable temperature. No. 1,128,640; Feb. 16; Gaz. vol. 211; p. 779.
- Von Wladowsky, Julius, New York, N. Y. Antibackfiring attachment for carbureters. No. 1,130,553; Mar. 2; Gaz. vol. 212; p. 250.
- Vondenbosch, Raymond H., assignor to The Central Hardware Company, Los Angeles, Cal. Hot-air furnace. No. 1,131,576; Mar. 9; Gaz. vol. 212; p. 634.
- Vonderahe, Frederick C., Portland, Oreg. Bag-holder. No. 1,158,013; Oct. 26; Gaz. vol. 219; p. 1057.
- Voorhees, John J., Jersey City, N. J., assignor to Brown Perfection Tube Company, New York, N. Y. Inner tube for pneumatic tires. No. 1,155,775; Oct. 5; Gaz. vol. 219; p. 156.
- Voorhees, John J., Jr., Jersey City, N. J. Hose. No. 1,158,595; Nov. 2; Gaz. vol. 220; p. 66.
- Voorhees, Martin M., Oak Park, Ill. Undertow-warner indicator-register. No. 1,153,653; Sept. 14; Gaz. vol. 218; p. 494.
- Voorhees Rubber Manufacturing Company. (See Dickey, Charles T., assignor.)
- Voorhees, Walter K., and F. A. Anderson, Cedar Falls, Iowa. Latch for gates. No. 1,134,301; Apr. 6; Gaz. vol. 213; p. 80.
- Voorhees, William H., Woodbridge, N. J. Sash-lock for windows. No. 1,137,435; Apr. 27; Gaz. vol. 213; p. 1313.
- Voorhies, Alexis, New Iberia, La. Portable canopy. No. 1,128,558; Feb. 16; Gaz. vol. 211; p. 752.
- Vorce, Albert F. (See Bristol and Vorce.)
- Vories, Louis H., New York, N. Y. Golf-club. No. 1,165,559; Dec. 28; Gaz. vol. 221; p. 1110.
- Voris, Anthony, New York, N. Y. Photographic camera. No. 1,146,218; July 13; Gaz. vol. 216; p. 456.
- Voris, George M., San Francisco, Cal. Folding paper box. No. 1,135,742; Apr. 13; Gaz. vol. 213; p. 631.
- Voris, James W., and C. E. Hover, Norwood; said Hover assignor of one-half to O. C. Huffman, Cincinnati, Ohio. Can-tester. No. 1,144,081; June 22; Gaz. vol. 215; p. 1147.
- Vorndran, Georg, Stuttgart, Germany. Flying-machine. No. 1,135,638; Apr. 13; Gaz. vol. 213; p. 595.
- Vornholt, Edward A., Toledo, Ohio, assignor, by mesne assignments, to Kryptok Company, New York, N. Y. Lens-blank manufacture. No. 1,157,470; Oct. 19; Gaz. vol. 219; p. 807.
- Vosatka, Anton, and L. Cejka, Chicago, Ill. Locking device. No. 1,137,815; May 4; Gaz. vol. 214; p. 32.
- Vosbrink, George P., Chicago, Ill. Dust-mop. No. 1,151,139; Aug. 24; Gaz. vol. 217; p. 1160.
- Vosburgh, Charles C., Norwood, assignor to The John Shillito Company, Cincinnati, Ohio. Display-stand. No. 1,138,265; May 4; Gaz. vol. 214; p. 190.
- Vosburgh, John R., Johnstown, N. Y. Belt-tightener. No. 1,124,562; Jan. 12; Gaz. vol. 210; p. 520.
- Vose, Louis E. (See Edison, John W., assignor.)
- Vose & Son Piano Company. (See Stephenson, William C., assignor.)
- Vose, Walter F., assignor of forty-nine one-hundredths to T. J. Kimbel, Bloomington, Ill. Electrically controlled vaporizer for internal-combustion engines. No. 1,150,562; Aug. 17; Gaz. vol. 217; p. 905.
- Voskamp, Charles W. (See Seidel and Voskamp.)
- Vosper, William A., Arlington, N. J. Making stitch-down shoes. No. 1,146,825; July 20; Gaz. vol. 216; p. 687.
- Vosper, William W., assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio. Thread-cutting tool. No. 1,153,981; Sept. 21; Gaz. vol. 218; p. 643.
- Voss, Anton F., San Francisco, Cal. Inlet and relief valve for pneumatic tires. No. 1,139,935; May 18; Gaz. vol. 214; p. 852.
- Voss, Arthur. (See Schirmacher and Voss.)
- Voss, Gustav, Madison, Wis. Paint-mixer. No. 1,138,815; May 11; Gaz. vol. 214; p. 423.
- Voss, William H., Davenport, Iowa. Washing-machine gearing. No. 1,156,116; Oct. 12; Gaz. vol. 219; p. 301.
- Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company, New York, N. Y. Combined musical instrument. No. 1,165,470; Dec. 28; Gaz. vol. 221; p. 1080.
- Vranay, George, Braddock, Pa. Combined rail tie, chair, and joint. No. 1,133,593; Mar. 30; Gaz. vol. 212; p. 1485.
- Vreeland, Frederick K., Montclair, N. J., assignor to Wireless Telegraph Exploitation Company, New York, N. Y. Electrical oscillator. No. 1,152,675; Sept. 7; Gaz. vol. 218; p. 109.
- Vreeland, Walter G. (See Kibele and Vreeland.)
- Vroman, Austin L., Medford, Oreg. Plumber's clamp. No. 1,166,284; Dec. 28; Gaz. vol. 221; p. 1370.
- Vrooman, Arba E. and H. F., Painesville, and S. S. Swanson, assignors to The Vrooman Company, Bellevue, Ohio. Rotary weeder and cultivator. No. 1,141,997; June 8; Gaz. vol. 215; p. 356.
- Vrooman Company, The. (See Vrooman and Swanson, assignors.)
- Vrooman, Howard F. (See Vrooman and Swanson.)
- Vugrinovic, Ivan P., Indiana Harbor, Ind. Padlock. No. 1,149,230; Aug. 10; Gaz. vol. 217; p. 366.
- Vuillaume, Jules, and F. Marbach, Paris, France, assignors to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,153,361; Sept. 14; Gaz. vol. 218; p. 392.
- Vulcan Box Toe Process Company, The. (See Clausing, George, assignor.)
- Vulcan Coil Company. (See Seeley, James E., assignor.)
- Vulcan Foundry Limited, The. (See Collingwood, William, assignor.)
- Vulcan Motor Devices Company. (See Small, Howard, assignor.)
- Vulcan Soot Cleaner Co. of Pittsburg, Pa. (See Burgess, Garrett, assignor.) (Reissue.)
- Vulcan Soot Cleaner Co., of Pittsburg, Pa., The. (See Hibner and Linaker, assignors.)
- Vulcan Soot Cleaner Co., of Pittsburg, Pa., The. (See Linaker, Frederick W., assignor.)
- W. Ames & Co. *et al.* (See Ames, James W., assignor.)
- W. Beckers Aniline and Chemical Works. (See Beckers and Dreyfus, assignors.)
- W. Eddy Plow Co. (See Eddy, Oscar H., assignor.)
- W. Smith Grubber Company. (See Smith, Frank R., assignor.)
- W. A. Hilliard Company. (See Hilliard, Walter A., assignor.)
- W. A. Plummer Manufacturing Company. (See Adams, Frederick R., assignor.)
- W. B. Coon Company. (See Erbach and Saxe, assignors.)
- W. C. Ritchie & Company. (See Milroe, Michael J., assignor.)
- W. C. Ritchie & Company. (See Stock, Julius A., assignor.)
- W. C. Ritchie & Company. (See Stock and Milroe, assignors.)
- W. D. Allen Manufacturing Company. (See Gibbs, Henry, assignor.)
- W. E. Dunn Manufacturing Company. (See Weiss, George, assignor.)
- W. E. Ellis Company. (See Ellis, Warren E., assignor.)
- W. F. Schrafft & Sons Corporation. (See Schrafft, Blake, and Lorentzen, assignors.)
- W. G. Browne Manufacturing Company. (See Sweeney, John T., assignor.)
- W. G. Cornell Company. (See Rogers and Parker, assignors.)
- W. H. Bundy Recording Company. (See Bradley and Campbell, assignors.)
- W. H. Coe Manufacturing Company. (See Swallow, Stuart H., assignor.)
- W. H. Hoover Company, The. (See Heckmann, Harry G., assignor.)
- W. H. Mullins Co., The. (See Miller, Uriah R., assignor.)
- W. H. Saart Company, The. (See Saart, Herman, assignor.)
- W. J. Young Machinery Company. (See Grover, George B., assignor.)
- W. J. Young Machinery Company. (See Young, William J., assignor.)
- W. & L. E. Gurlev. (See Schulte, Edward D. N., assignor.)
- W. N. Matthews and Brother. (See Matthews, Claude L., assignor.)
- W. P. Gammons, Jr., and F. W. Cole, Inc. (See Gammons, Welcome P., Jr., assignor.)
- W. S. Barney Co. (See Barney, Walter S., assignor.)
- W. S. Bidle Company. (See Bidle, William S.)
- W. S. Seaman Company. (See Hardtke, Edward, assignor.)
- W. S. Tyler Company, The. (See Reynolds, Morley P., assignor.)

Alphabetical list of patentees—Continued.

- W. S. Tyler Company, The. (See Wiegert, Paul G., assignor.)
- W. & T. Avery Ltd. (See Nield, Josiah, assignor.)
- W. & T. Avery Ltd. (See Smith and Welsh, assignors.)
- W. T. Lane & Brother. (See Benjamin, George H., assignor.)
- W. W. Kimball Company. (See Hiscock, Emory C., assignor.)
- Wacha, John C., Providence, R. I., assignor to George H. Cahoon Company, Chain. No. 1,153,362; Sept. 14; Gaz. vol. 218; p. 392.
- Wacholz, Charles H., Santa Clara, Cal. Guard for wood-working-machines. No. 1,160,219; Nov. 16; Gaz. vol. 220; p. 721.
- Wachowicz, Jacob, Detroit, Mich. Safety garment-rack. No. 1,130,044; Mar. 2; Gaz. vol. 212; p. 71.
- Wachsmith, Richard. (See Dustman, William L., assignor.)
- Wachtel, Charles, Jamaica, N. Y. Sparking igniter. No. 1,123,434; Jan. 5; Gaz. vol. 210; p. 82.
- Wachtelhausen, Henry W., assignor to The Parker Clock Company, Meriden, Conn. Spring-motor. No. 1,159,437; Nov. 9; Gaz. vol. 220; p. 391.
- Wachtelschneider, Joseph, New York, N. Y. Food container and heater. No. 1,130,222; Mar. 2; Gaz. vol. 212; p. 132.
- Wachtelschneider, Joseph, assignor to G. P. Schmidt, New York, N. Y. Figure toy. No. 1,148,266; July 27; Gaz. vol. 216; p. 1221.
- Wachter, Hemme W., Wilbur, Wash. Disk attachment. No. 1,147,662; July 20; Gaz. vol. 216; p. 981.
- Wacker, Charles H. (See Baurath, Leonhard, assignor.)
- Wacker, Frederick G., assignor to The Toledo Steel Barrel Company, Toledo, Ohio. Metallic receptacle. No. 1,158,596; Nov. 2; Gaz. vol. 220; p. 66.
- Waddell, Arthur L., Chicago, Ill. Grinding-gage. No. 1,149,311; Aug. 10; Gaz. vol. 217; p. 397.
- Waddell, Gaspar L., Grapeland, Tex. Extensible neck-yoke. No. 1,138,518; May 4; Gaz. vol. 214; p. 279.
- Waddell, George W., Wilkes-Barre, Pa. Feed-bag. No. 1,157,471; Oct. 19; Gaz. vol. 219; p. 807.
- Waddell, Montgomery, assignor of one-third to E. B. Aldrich, New York, N. Y., and one-third to H. T. G. Van der Linde, Plainfield, N. J. Paper barrel. No. 1,128,826; Feb. 16; Gaz. vol. 211; p. 845.
- Waddell, Robert, assignor to Washington Iron Works Company, Seattle, Wash. Aerial conveyer. No. 1,140,725; May 25; Gaz. vol. 214; p. 1162.
- Waddell, William J., Lillington, N. C. Tie-extractor. No. 1,137,682; Apr. 27; Gaz. vol. 213; p. 1093.
- Wade, Carl B., Russell, Kans. Train-order-delivering apparatus. No. 1,165,299; Dec. 21; Gaz. vol. 221; p. 982.
- Wade, Ceylon L., Detroit, Mich. Riveting-machine. No. 1,132,988; Mar. 23; Gaz. vol. 212; p. 1233.
- Wade, Ernest M. (See Johnson and Wade.)
- Wade, Foy. (See Moore and Wade.)
- Wade, Frank E., Fairmont, Minn. Internal-combustion engine. No. 1,142,545; June 8; Gaz. vol. 215; p. 550.
- Wade, Frank K., Paterson, assignor of one-half to R. C. Denny, Bloomfield, N. J. Automatic train-stop. No. 1,136,567; Apr. 20; Gaz. vol. 213; p. 963.
- Wade, Henry C., New York, N. Y., assignor to Hydro Carbon Gas Company. Hydrocarbon-burner. No. 1,125,777; Jan. 19; Gaz. vol. 210; p. 990.
- Wade, Jethro T., Peterborough, England. Demountable wheel. No. 1,143,870; June 22; Gaz. vol. 215; p. 1073.
- Wade, Samuel L., Whistler, assignor of one-sixth to W. N. Cox, one-sixth to O. H. Attridge, and one-sixth to F. G. Bennett, Montgomery, Ala. Lever-latch. No. 1,125,415; Jan. 19; Gaz. vol. 210; p. 861.
- Wadham, Frank L., Detroit, Mich. Cabinet. No. 1,146,977; July 20; Gaz. vol. 216; p. 742.
- Wadsworth, Arthur W. (See Jeffery and Wadsworth.)
- Wadsworth, Charles W., Brooklyn, N. Y. Hand-rail for bath-tubs. No. 1,147,348; July 20; Gaz. vol. 216; p. 869.
- Wadsworth, Dwight W., Bangor, Mich. Relief-valve for spraying-pumps. No. 1,142,289; June 8; Gaz. vol. 215; p. 459.
- Wadsworth, Erastus E., assignor to The Eco Magneto Clock Company, Boston, Mass. Watchman's time-detector. No. 1,140,859; May 25; Gaz. vol. 214; p. 1211.
- Wadsworth, Frank L. O., Sewickley, Pa. Water-heater construction. No. 1,131,020; Mar. 9; Gaz. vol. 212; p. 444.
- Wadsworth, Frank L. O., Sewickley, Pa. Water-heater construction. No. 1,131,021; Mar. 9; Gaz. vol. 212; p. 445.
- Wadsworth, Frank L. O., Sewickley, Pa. Water-heater construction. No. 1,146,826; July 20; Gaz. vol. 216; p. 687.
- Wadsworth, Frank L. O., Sewickley, Pa. Water-heater construction. No. 1,156,949; Oct. 19; Gaz. vol. 219; p. 620.
- Wadsworth, Frank L. O., Sewickley, Pa. Drawing glass cylinders. No. 1,161,911; Nov. 30; Gaz. vol. 220; p. 1410.
- Wadsworth, Frank L. O., Sewickley, Pa. Manufacture of glass sheets. No. 1,161,912; Nov. 30; Gaz. vol. 220; p. 1411.
- Wadsworth, Frank L. O., Sewickley, Pa. Manufacture of glass sheets. No. 1,161,913; Nov. 30; Gaz. vol. 220; p. 1411.
- Wadsworth, Frank L. O., Sewickley, Pa. Drawing glass cylinders. No. 1,166,025; Dec. 28; Gaz. vol. 221; p. 1273.
- Wadsworth, Frank L. O., Sewickley, assignor, by mesne assignments, to The Spirella Company, Meadville, Pa. Making garment-stays. No. 1,123,821; Jan. 5; Gaz. vol. 210; p. 213.
- Wadsworth, Frank L. O., Sewickley, assignor, by mesne assignments, to The Spirella Company, Meadville, Pa. Making garment-stays. No. 1,123,822; Jan. 5; Gaz. vol. 210; p. 213.
- Wadsworth, Frank L. O., Sewickley, assignor, by mesne assignments, to The Spirella Company, Meadville, Pa. Making garment-stays. No. 1,123,823; Jan. 5; Gaz. vol. 210; p. 213.
- Wadsworth, Frank L. O., Sewickley, assignor, by mesne assignments, to The Spirella Company, Meadville, Pa. Machine for making wire garment-stays. No. 1,123,824; Jan. 5; Gaz. vol. 210; p. 214.
- Wadsworth, Frank L. O., Sewickley, assignor, by mesne assignments, to The Spirella Company, Meadville, Pa. Golf-bag. No. 1,128,921; Feb. 16; Gaz. vol. 211; p. 879.
- Wadsworth, George R., assignor to Gray & Davis, Inc., Boston, Mass. Combined engine-starter, dynamo, and ignition-timer for automobiles. No. 1,158,597; Nov. 2; Gaz. vol. 220; p. 66.
- Wadsworth Watch Case Company, The. (See Jeffery and Wadsworth, assignors.)
- Waelti, Otto N., Watson, Saskatchewan, Canada. Rallie. No. 1,138,159; May 4; Gaz. vol. 214; p. 154.
- Waern, Adolph W., assignor of one-half to J. H. Wallace, New York, N. Y. Water-cooled blowpipe. No. 1,145,948; July 13; Gaz. vol. 216; p. 359.
- Waessel, Max. (See Fuenfstueck, Gustave, assignor.)
- Wagandt, Charles L., Baltimore, Md., assignor to National Enameling and Stamping Company, New York, N. Y. Oil-stove-wick protector. No. 1,128,263; Feb. 9; Gaz. vol. 211; p. 600.
- Wagandt, Charles L., Baltimore, Md., assignor to The National Enameling & Stamping Company, New York, N. Y. Lamp-burner. No. 1,162,714; Nov. 30; Gaz. vol. 220; p. 1684.
- Waganoff, Alexandre, Petrograd, Russia. Treatment of the bast of the linden or lime-tree and willow for the manufacture of webs. No. 1,149,876; Aug. 10; Gaz. vol. 217; p. 600.
- Wagar, Jerome, Bantny, N. D. Driving connection for traction-wheels. No. 1,128,082; Feb. 9; Gaz. vol. 211; p. 539.
- Wagener, George F. (See Adams and Wagener.)
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle wheel-rim. No. 1,136,981; Apr. 27; Gaz. vol. 213; p. 1145.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle wheel-rim. No. 1,136,982; Apr. 27; Gaz. vol. 213; p. 1145.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle wheel-rim. No. 1,136,983; Apr. 27; Gaz. vol. 213; p. 1146.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle wheel-rim. No. 1,136,984; Apr. 27; Gaz. vol. 213; p. 1146.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle wheel-rim. No. 1,136,985; Apr. 27; Gaz. vol. 213; p. 1147.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Demountable-rim tool. No. 1,160,220; Nov. 16; Gaz. vol. 220; p. 721.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle wheel-rim. No. 1,160,221; Nov. 16; Gaz. vol. 220; p. 722.

- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle-wheel and rim therefor. No. 1,160,222; Nov. 16; Gaz. vol. 220; p. 722.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle-wheel. No. 1,160,223; Nov. 16; Gaz. vol. 220; p. 723.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle-wheel. No. 1,160,224; Nov. 16; Gaz. vol. 220; p. 723.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle-wheel-rim. No. 1,160,225; Nov. 16; Gaz. vol. 220; p. 724.
- Wagenhorst, James H., Akron, Ohio, assignor, by mesne assignments, of two-fifths to The B. F. Goodrich Company, New York, N. Y., one-fifth to The Goodyear Tire & Rubber Company, Akron, Ohio, and one-fifth to The United States Tire Company, New York, N. Y. Vehicle-wheel-rim. No. 1,160,226; Nov. 16; Gaz. vol. 220; p. 724.
- Wages, Sam N., Cornwell, S. C. Locomotive-headlight. No. 1,166,285; Dec. 28; Gaz. vol. 221; p. 1370.
- Wagg, James B., Appleton, Wis. Paper-making apparatus. No. 1,129,766; Feb. 23; Gaz. vol. 211; p. 1206.
- Wagg, Solomon R., Appleton, Wis. Treating paper. No. 1,128,200; Feb. 9; Gaz. vol. 211; p. 579.
- Wagg, W. W. (See Strickland, George R., assignor.)
- Waggner, Paul H., Columbia, Ky. Envelop. No. 1,155,388; Oct. 5; Gaz. vol. 219; p. 22.
- Waggoner, Henry E. (See Hellyar, Cochran, and Waggoner.)
- Waggoner, William H., Jeanerette, La. Apparatus for bleaching cane-juice. No. 1,152,458; Sept. 7; Gaz. vol. 218; p. 26.
- Wagner, Albert P. and O. H., North Detroit, Mich. Labeling-machine. No. 1,123,435; Jan. 5; Gaz. vol. 210; p. 82.
- Wagner, Allen P., Fredericksburg, Pa. Trestle for carpenters' use. No. 1,153,470; Sept. 14; Gaz. vol. 218; p. 430.
- Wagner, August, Chester, Ill. Brake for car-trucks. No. 1,131,446; Mar. 9; Gaz. vol. 212; p. 591.
- Wagner, Caspar S. (See Horton and Wagner.)
- Wagner, Charles. (See Collins, Leon C., assignor.)
- Wagner, Charles, Brooklyn, N. Y., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric fitting. No. 1,156,727; Oct. 12; Gaz. vol. 219; p. 514.
- Wagner, Charles, Grantwood, N. J., and A. Hormel, New York, N. Y. Transfer-roller for lithographic presses. No. 1,129,435; Feb. 23; Gaz. vol. 211; p. 1095.
- Wagner, Charles F., Painsbury Park, London, England. Shears especially applicable for hedge-cutting and the like. No. 1,151,913; Aug. 31; Gaz. vol. 217; p. 1472.
- Wagner, Charles H. (See Conrardy and Wagner.)
- Wagner, Clyde P., assignor of one-half to O. H. Gentry, Joplin, Mo. Flour-sprinkler. No. 1,128,559; Feb. 16; Gaz. vol. 211; p. 752.
- Wagner, Edward L. (See Robinson and Wagner.)
- Wagner Electric Manufacturing Company. (See Ballman, Edwin C., assignor.)
- Wagner Electric Manufacturing Company. (See Doubrava and Heineman, assignors.)
- Wagner Electric Manufacturing Company. (See Füssler, Ernst, assignor.)
- Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
- Wagner Electric Manufacturing Company. (See Knöpfli, Otto, assignor.)
- Wagner, Francis A., Dayton, Ohio. Mechanical toy. No. 1,164,686; Dec. 21; Gaz. vol. 221; p. 768.
- Wagner, Frank, St. Louis, Mo. Game-board. No. 1,135,229; Apr. 13; Gaz. vol. 213; p. 450.
- Wagner, Hermann, and J. Erber, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Yellow dyestuffs and making same. No. 1,160,471; Nov. 16; Gaz. vol. 220; p. 808.
- Wagner, Hermann, J. Erber, and E. Hoffa, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Yellow chrome-mordant dyestuffs and making same. No. 1,149,231; Aug. 10; Gaz. vol. 217; p. 367.
- Wagner, Jacob, *et al.* (See Ambrozy, Eugene, assignor.)
- Wagner, James. (See Eckmann and Wagner.)
- Wagner, James M., *et al.* (See Garrette, John E., assignor.)
- Wagner, Jesse W., Kansas City, Kans. Artificial stone. No. 1,130,223; Mar. 2; Gaz. vol. 212; p. 133.
- Wagner, John, Kansas City, Mo. Stand for supporting Christmas trees. No. 1,151,745; Aug. 31; Gaz. vol. 217; p. 1412.
- Wagner, John H., *et al.* (See Swyers, Brice P., assignor.)
- Wagner, Karl W., Berlin-Lankwitz, Germany. Telephone-cable. No. 1,153,655; Sept. 14; Gaz. vol. 218; p. 495.
- Wagner, Lawrence A., Youngstown, Ohio. Plastic fence-post. No. 1,162,322; Nov. 30; Gaz. vol. 220; p. 1554.
- Wagner, Louis E., Richlandtown, and F. W. Presser, Philadelphia, Pa. Hanger for portières, curtains, and the like. No. 1,163,488; Dec. 7; Gaz. vol. 221; p. 263.
- Wagner, Mathias, Atlanta, Ga. Saw-sharpening machine. No. 1,153,982; Sept. 21; Gaz. vol. 218; p. 644.
- Wagner, Oswin H. (See Wagner, Albert P. and O. H.)
- Wagner, Paul, Culbertson, Mont. Flue-cutter. No. 1,160,019; Nov. 9; Gaz. vol. 220; p. 598.
- Wagner, Paul, Charlottenburg, Germany, assignor to General Electric Company. Draining steam-turbines. No. 1,165,922; Dec. 28; Gaz. vol. 221; p. 1237.
- Wagner, Paul A., Carlstadt, N. J. Support for heddle-bars. No. 1,142,290; June 8; Gaz. vol. 215; p. 460.
- Wagner, Phillip, *et al.* (See Star, George, assignor.)
- Wagner, Robert, assignor to Firm of R. Bosch, Stuttgart, Germany. Operating mechanism for oscillatory ignition-machines. No. 1,123,436; Jan. 5; Gaz. vol. 210; p. 82.
- Wagner, Robert G. (See Schweitzer and Wagner.)
- Wagner, Samuel W., Boston, Mass. Hammock. No. 1,136,986; Apr. 27; Gaz. vol. 213; p. 1147.
- Wagner, Walter, Chicago, Ill., assignor, by mesne assignments, to Rayvivo Water Company. Liquid-dispensing device. No. 1,142,210; June 8; Gaz. vol. 215; p. 431.
- Wagner, Warren, Burkburnett, Tex. Underreamer. No. 1,149,799; Aug. 10; Gaz. vol. 217; p. 572.
- Wagner, William E., Dietz, Wyo. Running-gear. No. 1,124,079; Jan. 5; Gaz. vol. 210; p. 299.
- Wagner, William F., Detroit, Mich. Grinding-wheel-trimming mechanism. No. 1,123,437; Jan. 5; Gaz. vol. 210; p. 83.
- Wagoner, Alma M., administratrix. (See Wagoner, James B.)
- Wagoner, James B., deceased, Los Angeles; A. M. Wagoner, administratrix, San Francisco, Cal. Rectal generator. No. 1,149,971; Aug. 10; Gaz. vol. 217; p. 635.
- Wagoner, James B., deceased, Los Angeles; A. M. Wagoner, special administratrix, San Francisco, Cal. Thermo-electric device for therapeutics. No. 1,154,144; Sept. 21; Gaz. vol. 218; p. 699.
- Wagschal, Louis, Indianapolis, Ind. Safety acetylene-gas generator. No. 1,159,814; Nov. 9; Gaz. vol. 220; p. 526.
- Wahl Adding Machine Company. (See Wahl, John C., assignor.)
- Wahl, Arnold S., Chicago, Ill. Finishing bread and the like. No. 1,155,530; Oct. 5; Gaz. vol. 219; p. 72.
- Wahl, Edward W. (See Wahl, Leo J. and E. W.)
- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Wahl Adding Machine Company, Wilmington, Del. Calculating-machine. No. 1,148,732; Aug. 3; Gaz. vol. 217; p. 90.
- Wahl, John C., Chicago, Ill., assignor to Wahl Adding Machine Company, Wilmington, Del. Calculating-machine. No. 1,148,733; Aug. 3; Gaz. vol. 217; p. 90.
- Wahl, Leo J. and E. W., Sterling, Ill. Massage-machine. No. 1,149,099; Aug. 3; Gaz. vol. 217; p. 215.
- Wahl, Robert, Chicago, Ill. Manufacture of Burton salts. No. 1,156,448; Oct. 12; Gaz. vol. 219; p. 416.
- Wahl, Robert, assignor, by mesne assignments, to Lupulytic Process Company, Chicago, Ill. Manufacturing hopped beverages. No. 1,149,704; Aug. 10; Gaz. vol. 217; p. 538.
- Wahlberg, Nils E., assignor to Oakland Motor Car Company, Pontiac, Mich. Control mechanism for motor-vehicles. No. 1,126,925; Feb. 2; Gaz. vol. 211; p. 91.
- Wahle, Adolph, Davenport, Iowa. Turbine water-pump. No. 1,146,375; July 13; Gaz. vol. 216; p. 510.
- Wahlstrom Tool Company. (See Wahlstrom, Verner J., assignor.)
- Wahlstrom, Verner J., Brooklyn, assignor to Wahlstrom Tool Company, New York, N. Y. Expanding reamer. No. 1,127,121; Feb. 2; Gaz. vol. 211; p. 162.
- Wahlstrom, Verner J., Brooklyn, assignor to Wahlstrom Tool Company, New York, N. Y. Chuck. No. 1,162,197; Nov. 30; Gaz. vol. 220; p. 1511.
- Wahrheit, Edward H., New York, N. Y. Antifriction-bearing. No. 1,135,081; Apr. 13; Gaz. vol. 213; p. 400.
- Waibel, Julius K. M. (See Wetzel, Frederick, assignor.)
- Waid, Calvin R., Birmingham, Ala. Rocking grate-bar. No. 1,151,746; Aug. 31; Gaz. vol. 217; p. 1412.
- Waid, Guy R., Pegasus, Idaho. Drip-pan alarm. No. 1,123,629; Jan. 5; Gaz. vol. 210; p. 148.
- Waidlich, Walter, Detroit, Mich. Fastener for box-covers. No. 1,142,211; June 8; Gaz. vol. 215; p. 432.
- Wainola, Matti, New York, N. Y. Ship's berth. No. 1,149,100; Aug. 3; Gaz. vol. 217; p. 215.
- Wainwright, Charles, Erie, Pa. Air-compressor. No. 1,131,577; Mar. 9; Gaz. vol. 212; p. 635.
- Wainwright, Henry L. and M. V. Ahern, Norfolk, Va. Coupon-book. No. 1,132,641; Mar. 23; Gaz. vol. 212; p. 1105.

Alphabetical list of patentees—Continued.

- Wainwright, William J., Brainerd, Ill., and H. R. Smith, assignors to Raymond Concrete Pile Company, New York, N. Y. Machine for manufacturing spirally-reinforced pile-shells. No. 1,155,889; Oct. 5; Gaz. vol. 219; p. 22.
- Waisner, Horace L., Rockford, Ill. Preheating attachment for hardening-furnaces. No. 1,164,894; Dec. 21; Gaz. vol. 221; p. 840.
- Wait, Francis M. (See Case and Wait.)
- Wait, William B., New York, N. Y. Plate for embossed printing. No. 1,136,632; Apr. 20; Gaz. vol. 213; p. 985.
- Waite, Charles F., Cambridge, Mass. Tool-holder for lathes. No. 1,158,753; Nov. 2; Gaz. vol. 220; p. 110.
- Waite, Fred, Otley, near Leeds, England. Pneumatic sheet-feeding apparatus for printing-machines and the like. No. 1,160,796; Nov. 16; Gaz. vol. 220; p. 926.
- Waite Grass Carpet Company. (See Waite, Ossian T., assignor.)
- Waite, Guy B., New York, N. Y. Reinforced-concrete building construction. No. 1,141,160; June 1; Gaz. vol. 215; p. 24.
- Waite, Guy B., New York, N. Y. Concrete-slab floor construction. No. 1,163,187; Dec. 7; Gaz. vol. 221; p. 159.
- Waite, Guy B., New York, N. Y. Adjustable centering for reinforced-concrete floor constructions. No. 1,163,188; Dec. 7; Gaz. vol. 221; p. 159.
- Waite, Harry C., Chicago, Ill., assignor to International Harvester Corporation. Internal-combustion engine. No. 1,135,082; Apr. 13; Gaz. vol. 213; p. 401.
- Waite, Harry C., Chicago, Ill., assignor to International Harvester Corporation. Internal-combustion engine. No. 1,135,083; Apr. 13; Gaz. vol. 213; p. 401.
- Waite, Harry C., Lewistown, Mont., assignor to International Harvester Company of New Jersey. Axle-support. No. 1,144,513; June 29; Gaz. vol. 215; p. 1327.
- Waite, Harry F., New York, N. Y. Means for cooling vacuum-tubes. No. 1,125,223; Jan. 19; Gaz. vol. 210; p. 792.
- Waite, Harry F., New York, N. Y. X-ray apparatus. No. 1,137,557; Apr. 27; Gaz. vol. 213; p. 1353.
- Waite, John H., Brockton, Mass. Manufacturing boots and shoes. No. 1,133,766; Mar. 30; Gaz. vol. 212; p. 1546.
- Waite, Lyman M., assignor to Fitchburg Machine Works, Fitchburg, Mass. Tool-holding device for lathes. No. 1,125,778; Jan. 19; Gaz. vol. 210; p. 990.
- Waite, Lyman M., assignor to Fitchburg Machine Works, Fitchburg, Mass. Multiple-spindle lathe. No. 1,125,779; Jan. 19; Gaz. vol. 210; p. 991.
- Waite, Lyman M., assignor to Fitchburg Machine Works, Fitchburg, Mass. Spring-chuck. No. 1,125,780; Jan. 19; Gaz. vol. 210; p. 991.
- Waite, Ossian T., Oshkosh, Wis. Grass twine. No. 1,144,163; June 22; Gaz. vol. 215; p. 1178.
- Waite, Ossian T., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass-twine machine. No. 1,144,162; June 22; Gaz. vol. 215; p. 1178.
- Waite, Ossian T., assignor to Waite Grass Carpet Co., Oshkosh, Wis. Grass-twine machine. No. 1,162,530; Nov. 30; Gaz. vol. 220; p. 1625.
- Wake, Frederick N., assignor to The Specialty Development Co., New York, N. Y. Electric switch for elevators. No. 1,153,656; Sept. 14; Gaz. vol. 218; p. 495.
- Wake, Frederick N., assignor to The Specialty Development Co., New York, N. Y. Fuse-carrying connecting device for electrical conductors. No. 1,153,657; Sept. 14; Gaz. vol. 218; p. 495.
- Wakefield, Charles C., London, England. Force-feed lubricator. No. 1,134,566; Apr. 6; Gaz. vol. 213; p. 176.
- Wakefield, Charles C., London, England. Lubricator. No. 1,154,353; Sept. 21; Gaz. vol. 218; p. 772.
- Wakefield, Edward E., assignor to Halkyard Manufacturing Company, Providence, R. I. Lacing-stud-setting machine. No. 1,129,030; Feb. 16; Gaz. vol. 211; p. 918.
- Wakefield, Edward E., assignor to Halkyard Manufacturing Company, Providence, R. I. Lacing-stud-setting machine. No. 1,133,594; Mar. 30; Gaz. vol. 212; p. 1485.
- Wakefield, Edward E., assignor to Halkyard Manufacturing Company, Providence, R. I. Lacing-stud-setting machine. No. 1,154,553; Sept. 21; Gaz. vol. 218; p. 839.
- Wakefield, Edwin F., Chagrin Falls, Ohio. Electric connector. No. 1,154,354; Sept. 21; Gaz. vol. 218; p. 772.
- Wakefield, Frank T., Fairhaven, Pa. Combined mail-box and milk-bottle holder. No. 1,154,900; Sept. 28; Gaz. vol. 218; p. 986.
- Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Lighting-fixture. No. 1,125,608; Jan. 19; Gaz. vol. 210; p. 928.
- Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Convertible direct or indirect lighting fixture. No. 1,160,345; Nov. 16; Gaz. vol. 220; p. 765.
- Wakefield, George F., San Jose, Cal. Car time-finder. No. 1,153,471; Sept. 14; Gaz. vol. 218; p. 430.
- Wakelam, Henry T., Woodlawn, Teddington, assignor to The British Railway and Tramway Interchangeable Rail Company, Limited, London, England. Tramway and the like rail. No. 1,147,468; July 20; Gaz. vol. 216; p. 913.
- Wakfer, William H., South Norwood, assignor of one-half to S. Peck, Wallington, England. Impact rotary drill. No. 1,136,987; Apr. 27; Gaz. vol. 213; p. 1148.
- Walbridge, Henry L., Springfield, Mass. Wrapping and checking device for store-service. No. 1,149,548; Aug. 10; Gaz. vol. 217; p. 480.
- Walch, Jacob S., Walla Walla, Wash. Grain-separator. No. 1,158,396; Oct. 26; Gaz. vol. 219; p. 1193.
- Walcott, Edward J., Jr., San Francisco, Cal. Necktie supporter and stretcher. No. 1,145,720; July 6; Gaz. vol. 216; p. 261.
- Walcott, Garrett. (See Jones, Jefferson P., assignor.)
- Wald, David, et al. (See Jelinek, Charles, assignor.)
- Wald Manufacturing Company. (See Pawsat, Ewald F., assignor.)
- Wald, Michael J., Eugene, Ore. Coaster-brake for bicycles, motor-cycles, or the like. (Reissue.) No. 13,946; July 13; Gaz. vol. 216; p. 652.
- Waldeck, Charles A., Baltimore, Md. Vaporizing apparatus. No. 1,124,979; Jan. 12; Gaz. vol. 210; p. 669.
- Walden, Lester M., Chicago, Ill., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Record-strip composing-machine. No. 1,149,232; Aug. 10; Gaz. vol. 217; p. 367.
- Walden, Edward, La Grange, Ill. Sanitary toilet-seat. No. 1,160,963; Nov. 16; Gaz. vol. 220; p. 985.
- Waldes, Heinrich, Prague-Wrschowitz, Austria-Hungary. Limiting adjustable placket-closure. No. 1,133,827; Mar. 30; Gaz. vol. 212; p. 1569.
- Waldes, Heinrich, Wrschowitz, near Prague, Austria-Hungary. Spring-pressed button attachment. No. 1,151,310; Aug. 24; Gaz. vol. 217; p. 1218.
- Waldes, Heinrich, New York, N. Y. Display-box. No. 1,136,187; Apr. 20; Gaz. vol. 213; p. 826.
- Waldes & Ko. (See Mann, Alfred, assignor.)
- Waldheim, John, Newark, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Combined type-writing and computing machine. No. 1,159,557; Nov. 9; Gaz. vol. 220; p. 433.
- Waldman, Ralph A., San Francisco, Cal. Milk-bottle case. No. 1,125,781; Jan. 19; Gaz. vol. 210; p. 991.
- Waldo, Charles S., Jr., Brookline, Mass. Cover for ash-cans. No. 1,161,089; Nov. 23; Gaz. vol. 220; p. 1074.
- Waldo, John R., Los Angeles, Cal. Reel. No. 1,147,663; July 20; Gaz. vol. 216; p. 982.
- Waldon, Sidney D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,143,001; June 15; Gaz. vol. 215; p. 747.
- Waldon, Sidney D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,144,514; June 29; Gaz. vol. 215; p. 1327.
- Waldorf, Harry. (See Diefenbach and Waldorf.)
- Waldorf, Grant. (See Wood, Garfield A., assignor.)
- Waldron, James M., Englewood, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,154,742; Sept. 28; Gaz. vol. 218; p. 933.
- Waldron, William H., New Brunswick, N. J. Block-printing machine. No. 1,145,821; July 6; Gaz. vol. 216; p. 296.
- Waldron, William H., New Brunswick, N. J. Block-printing machine. No. 1,159,301; Nov. 2; Gaz. vol. 220; p. 310.
- Waldron, William H., Highland Park, assignor to John Waldron Co., New Brunswick, N. J. Border-cutting machine. No. 1,136,741. Apr. 20; Gaz. vol. 213; p. 1025.
- Waldschmitt, William, Brooklyn, N. Y. Traveling-bag. No. 1,145,949; July 13; Gaz. vol. 216; p. 359.
- Wales, Alfred B., Whitman, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Buttonhole spacer and marker for buttonhole-machines. No. 1,131,966; Apr. 6; Gaz. vol. 213; p. 314.
- Wales, Alfred B., Whitman, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Shoemaking. No. 1,143,740; June 22; Gaz. vol. 215; p. 1028.
- Wales, Alfred B., Whitman, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Eyeletting-machine. No. 1,143,741; June 22; Gaz. vol. 215; p. 1029.
- Wales, Charles, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,132,753; Mar. 23; Gaz. vol. 212; p. 1146.
- Wales, Charles, assignor to The White Adding Machine Company, New Haven, Conn. Keyboard for computing-machines. No. 1,154,355; Sept. 21; Gaz. vol. 218; p. 773.
- Wales, Eugene F. (See Schaum and Wales.)
- Wales, Nathaniel B., Saginaw, Mich. Internal-combustion engine. No. 1,156,728; Oct. 12; Gaz. vol. 219; p. 514.
- Waligorski, Louis, New York, N. Y. Veneer trimmer and gage. No. 1,129,531; Feb. 23; Gaz. vol. 211; p. 1128.
- Waligursky, Jakob C., Palatka, Mich. Wrench. No. 1,158,343; Oct. 26; Gaz. vol. 219; p. 1173.
- Walk, Herman W., Chicago, Ill. Bicycle-stand. No. 1,159,139; Nov. 2; Gaz. vol. 220; p. 251.
- Walk, Jasper J., Oakland, Cal. Automobile driving mechanism. No. 1,128,922; Feb. 16; Gaz. vol. 211; p. 879.

- Walkden, Sam L., Muswell Hill, London, England. Aeroplane and the like. No. 1,152,063; Aug. 31; Gaz. vol. 217; p. 1523.
- Walker, Alexander B., Wallsend, England. Burner for gas and similar radiators, stoves, and the like. No. 1,155,630; Oct. 5; Gaz. vol. 219; p. 105.
- Walker, Alfred B. and F. P., assignors of one-half to W. R. Wood, Cincinnati, Ohio. Varnishes and other like materials and producing same. No. 1,131,578; Mar. 9; Gaz. vol. 212; p. 635.
- Walker, Alonzo, Cleo, Okla. Gate-hanger. No. 1,148,416; July 27; Gaz. vol. 216; p. 1274.
- Walker, Archie B., Chicago, Ill. Sound-reproducing instrument. No. 1,150,563; Aug. 17; Gaz. vol. 217; p. 905.
- Walker, Arthur W., Malden, Mass. Gas-stove, (oven-burner.) No. 1,133,767; Mar. 30; Gaz. vol. 212; p. 1547.
- Walker, Arthur W., Malden, Mass. Cooking stove and range. No. 1,151,071; Aug. 24; Gaz. vol. 217; p. 1136.
- Walker, Arthur W., Malden, Mass. Cooking-stove. No. 1,151,072; Aug. 24; Gaz. vol. 217; p. 1136.
- Walker, Arthur W., Malden, Mass. Latch-mounting. No. 1,154,676; Sept. 28; Gaz. vol. 218; p. 912.
- Walker, Arthur W., Malden, Mass. Cooking-stove. No. 1,163,719; Dec. 14; Gaz. vol. 221; p. 390.
- Walker, Arthur W., Malden, Mass. Cooking stove and range. No. 1,163,796; Dec. 14; Gaz. vol. 221; p. 418.
- Walker, Benjamin, Leeds, and A. Spink, Hyde Park, Leeds, England. Loom for weaving pile fabrics. No. 1,165,047; Dec. 21; Gaz. vol. 221; p. 894.
- Walker, Cassius M., Pueblo, Colo., assignor to The Walker-Moore Rock Drill Manufacturing and Supply Company. Oscillating engine. No. 1,145,449; July 6; Gaz. vol. 216; p. 166.
- Walker, Charles, Knoxville, Tenn. Stop and waste valve. No. 1,127,552; Feb. 9; Gaz. vol. 211; p. 351.
- Walker, Charles, Knoxville, Tenn. Compression stop and waste valve. No. 1,138,160; May 4; Gaz. vol. 214; p. 154.
- Walker, Charles J., Gary, Ind. Gauntree-riveter. No. 1,158,874; Nov. 2; Gaz. vol. 220; p. 163.
- Walker, Charles P., Bedford, Va. Rail-locking device. No. 1,165,300; Dec. 21; Gaz. vol. 221; p. 982.
- Walker, Charlie A. (See Krutsch, Willis W., assignor.)
- Walker, Clarence G., Bramwell, W. Va. Flying-machine. No. 1,153,143; Sept. 7; Gaz. vol. 218; p. 274.
- Walker, Clyde B., Juneau, Alaska. Balance-pump. No. 1,125,224; Jan. 19; Gaz. vol. 210; p. 792.
- Walker, Cyrus M., Kansas City, Mo. Union garment. No. 1,127,122; Feb. 2; Gaz. vol. 211; p. 162.
- Walker, Cyrus M., Kansas City, Mo. Drop-seat undergarment. No. 1,159,438; Nov. 9; Gaz. vol. 220; p. 391.
- Walker, Cyrus M., Kansas City, Mo. Garment. No. 1,159,439; Nov. 9; Gaz. vol. 220; p. 391.
- Walker, Cyrus M., Kansas City, Mo. Attached cuff for shirts. No. 1,159,440; Nov. 9; Gaz. vol. 220; p. 391.
- Walker, Daniel P., assignor to H. O. Bernbrock and L. Frank, Waterloo, Iowa. Restraining device. No. 1,146,376; July 13; Gaz. vol. 216; p. 510.
- Walker, Edwin, Erie, Pa. Ice-cream dipper. No. 1,138,703; May 11; Gaz. vol. 214; p. 381.
- Walker, Edwin, Erie, Pa. Ice-cream dipper. No. 1,138,704; May 11; Gaz. vol. 214; p. 381.
- Walker, Edwin, Erie, Pa. Ice-cream disher. No. 1,138,705; May 11; Gaz. vol. 214; p. 382.
- Walker, Edwin, Erie, Pa. Ice-cream disher. No. 1,138,706; May 11; Gaz. vol. 214; p. 382.
- Walker, Edwin, Erie, Pa. Crown-opener. No. 1,150,983; Aug. 17; Gaz. vol. 217; p. 735.
- Walker, Edwin, Erie, Pa. Ice-cream disher. No. 1,162,116; Nov. 30; Gaz. vol. 220; p. 1483.
- Walker, Edwin L., Denver, Colo. Vegetable-slicer. No. 1,164,241; Dec. 14; Gaz. vol. 221; p. 570.
- Walker, Elizabeth S. (See Walker, Rodolphus W., assignor.)
- Walker, Emery L., assignor to Hale and Kilburn Company, Philadelphia, Pa. Welding. No. 1,132,989; Mar. 23; Gaz. vol. 212; p. 1234.
- Walker, Everett H., assignor to Lawrence Manufacturing Company, Lowell, Mass. Circular-knitting machine. No. 1,145,101; July 6; Gaz. vol. 216; p. 46.
- Walker, Frank H., Lacon, assignor to Bullock Tractor Co., Chicago, Ill. Gearing. No. 1,156,869; Oct. 12; Gaz. vol. 219; p. 564.
- Walker, Franklin P. (See Walker, Alfred B. and F. P.)
- Walker, George, Newton Center, Mass. Non-print and non-compute mechanism for typographical computing machines. No. 1,138,161; May 4; Gaz. vol. 214; p. 155.
- Walker, George, assignor to Landers, Frary & Clark, New Britain, Conn. Weighing-machine. No. 1,132,891; Mar. 23; Gaz. vol. 212; p. 1196.
- Walker, George L., and W. W. Boughton, Pueblo, Colo. Automatic head-gate. No. 1,136,066; Apr. 20; Gaz. vol. 213; p. 784.
- Walker, George R., Chicago, Ill. Driving mechanism. No. 1,127,123; Feb. 2; Gaz. vol. 211; p. 163.
- Walker, Harold E., *et al.* (See Pringle, John L., assignor.)
- Walker, Harry C., and A. L. Boatwright, Indianapolis, Ind. Money-changing machine. No. 1,157,826; Oct. 26; Gaz. vol. 219; p. 991.
- Walker, Henry E., Bliss, Okla. Horse-releaser. No. 1,148,205; July 27; Gaz. vol. 216; p. 1199.
- Walker, Horace, and R. E. Hay, assignors to H. J. Packer & Company, Limited, Bristol, England. Manufacture of confectionery. No. 1,142,129; June 8; Gaz. vol. 215; p. 405.
- Walker, Howard C., Prince George, Md. Mold. No. 1,151,631; Aug. 31; Gaz. vol. 217; p. 1374.
- Walker, Hugh D. (See Sowers and Walker.)
- Walker, Hugh D., Grimsby, Ontario, Canada, assignor to Sowers Manufacturing Company, Buffalo, N. Y. Steaming apparatus. No. 1,132,135; Mar. 16; Gaz. vol. 212; p. 872.
- Walker, J. Mort, administrator. (See Walker, William E., assignor.)
- Walker, James A., Los Angeles, Cal. Roof construction. No. 1,124,563; Jan. 12; Gaz. vol. 210; p. 520.
- Walker, James F., Quincy, Ill. Automobile-fender. No. 1,123,961; Jan. 5; Gaz. vol. 210; p. 259.
- Walker, James H., assignor to The Fuller-Warren Co., Milwaukee, Wis. Gas-range. No. 1,151,427; Nov. 23; Gaz. vol. 220; p. 1197.
- Walker, James M., Carrollton, Ga. Fertilizer-distributor. No. 1,151,426; Aug. 24; Gaz. vol. 217; p. 1255.
- Walker, John, Jr., assignor to Walker Mfg. Co., Incorporated, Philadelphia, Pa. Heddle-frame. No. 1,129,767; Feb. 23; Gaz. vol. 211; p. 1207.
- Walker, John B., Birmingham, Ala. Molding apparatus for ingot-molds. No. 1,151,229; Aug. 24; Gaz. vol. 217; p. 1191.
- Walker, John B., Birmingham, Ala. Closure for joints of sectional collapsible cores. No. 1,154,079; Sept. 21; Gaz. vol. 218; p. 678.
- Walker, John B., Birmingham, Ala. Molding apparatus. No. 1,156,449; Oct. 12; Gaz. vol. 219; p. 416.
- Walker, John H., Lexington, Ky. Combination-tool. No. 1,135,743; Apr. 13; Gaz. vol. 213; p. 631.
- Walker, John M., Rock Creek, British Columbia, Canada. Controllable headlight. No. 1,127,327; Feb. 2; Gaz. vol. 211; p. 231.
- Walker, John T., Kansas City, Mo. Check-dispenser. No. 1,126,139; Jan. 26; Gaz. vol. 210; p. 1151.
- Walker, Joseph, Niagara Falls, N. Y. Knife-sharpener. No. 1,134,359; Apr. 6; Gaz. vol. 213; p. 101.
- Walker, Martin W., Ossining, N. Y. Clothes-drier. No. 1,139,605; May 13; Gaz. vol. 214; p. 735.
- Walker Mfg. Co. (See Walker, John, Jr., assignor.)
- Walker, Miles, Old Trafford, England, assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,145,721; July 6; Gaz. vol. 216; p. 261.
- Walker, Miles, Hale, England, assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,156,645; Oct. 12; Gaz. vol. 219; p. 486.
- Walker, Miles, Hale, England, assignor to Westinghouse Electric and Manufacturing Company. Commutating device for dynamo-electric machines. No. 1,158,598; Nov. 2; Gaz. vol. 220; p. 67.
- Walker, Miles, Hale, England, assignor to Westinghouse Electric and Manufacturing Company. Brush-holder. No. 1,166,161; Dec. 28; Gaz. vol. 221; p. 1325.
- Walker, Milton K., Richmond, Ky. Mail-delivering device. No. 1,158,342; Oct. 26; Gaz. vol. 219; p. 1172.
- Walker-Moore Manufacturing Company. (See Walker, Willard T., assignor.)
- Walker-Moore Rock Drill Manufacturing and Supply Company, The. (See Walker, Cassius M., assignor.)
- Walker, Oakley S., assignor to O. S. Walker Co., Worcester, Mass. Grinding-machine. No. 1,162,832; Dec. 7; Gaz. vol. 221; p. 36.
- Walker, Oakley S. and I. F. Williams, assignors to O. S. Walker Co., Worcester, Mass. Electrical switch. No. 1,162,831; Dec. 7; Gaz. vol. 221; p. 35.
- Walker, Percy, Detroit, Mich. Signal-horn and lamp. No. 1,134,360; Apr. 6; Gaz. vol. 213; p. 101.
- Walker, Percy H. D., assignor to The Charles Parker Company, Meriden, Conn. Fixture-lock. No. 1,128,560; Feb. 16; Gaz. vol. 211; p. 752.
- Walker, Raymond R., Follansbee, W. Va. Shock-absorber. No. 1,150,564; Aug. 17; Gaz. vol. 217; p. 906.
- Walker, Raymond R., Follansbee, W. Va. Shock-absorber. No. 1,156,646; Oct. 12; Gaz. vol. 219; p. 486.
- Walker, Raymond R., Follansbee, W. Va. Leaf-turning mechanism. No. 1,164,242; Dec. 14; Gaz. vol. 221; p. 570.
- Walker, Rodolphus W., assignor to E. S. Walker, Lawrence, Mass. Fan attachment. No. 1,134,495; Apr. 6; Gaz. vol. 213; p. 150.
- Walker, Sallie B., South Berkeley, assignor to T. R. Goth, Santa Rosa, Cal. Curtain-holder. No. 1,139,451; May 11; Gaz. vol. 214; p. 646.
- Walker, Thomas B., Austin, Tex. Hydrogenating fats, oils, and waxes. No. 1,123,962; Jan. 5; Gaz. vol. 210; p. 259.
- Walker, Thomas B., Austin, Tex. Stock food and preparing the same. No. 1,140,638; May 25; Gaz. vol. 214; p. 1135.

Alphabetical list of patentees—Continued.

- Walker, Thomas B., Austin, Tex. Stock food. No. 1,155,531; Oct. 5; Gaz. vol. 219; p. 73.
- Walker, Thomas G., Nishnabotna, Mo. Shock-absorber for riding-tools. No. 1,165,301; Dec. 21; Gaz. vol. 221; p. 982.
- Walker, Thomas H., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Throttle-valve for locomotives. No. 1,126,595; Jan. 26; Gaz. vol. 210; p. 1318.
- Walker, Walter H., Binghamton, N. Y. Coin-controlled vending or actuating mechanism. No. 1,139,242; May 11; Gaz. vol. 214; p. 572.
- Walker, Wilbur W., Hanford, Cal. Timing and ignition device. No. 1,142,212; June 8; Gaz. vol. 215; p. 432.
- Walker, Willard R., Syracuse, N. Y. Mechanical motor for dish-washing machines. No. 1,158,409; Oct. 26; Gaz. vol. 219; p. 1198.
- Walker, Willard T., assignor to Walker-Moore Manufacturing Company, Racine, Wis. Shock-absorber. No. 1,135,084; Apr. 13; Gaz. vol. 213; p. 402.
- Walker, William, Ottawa, Ontario, Canada. Railway-tie. No. 1,123,963; Jan. 5; Gaz. vol. 210; p. 259.
- Walker, William A., Enterprise, Miss. Excelsior-cutting machine. No. 1,141,222; June 1; Gaz. vol. 215; p. 47.
- Walker, William A., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,134,567; Apr. 6; Gaz. vol. 213; p. 177.
- Walker, William E., New Orleans, La. Orthodontia device for influencing the alveolar process and un-emerged teeth. No. 1,137,298; Apr. 27; Gaz. vol. 213; p. 1263.
- Walker, William E., deceased, New Orleans, La.; J. M. Walker, administrator. Orthodontia appliance. No. 1,142,467; June 8; Gaz. vol. 215; p. 524.
- Walker, William E., Seattle, Wash. Door-lock. No. 1,152,865; Sept. 7; Gaz. vol. 218; p. 179.
- Walker, William H., and A. L. Kichline, Dover, Del. Device for overcoming dead-centers. No. 1,125,225; Jan. 19; Gaz. vol. 210; p. 792.
- Walker, William L., Groton, Conn. Battery-cell. No. 1,152,246; Aug. 31; Gaz. vol. 217; p. 1585.
- Walker, William L., New London, Conn. Battery-jar. No. 1,152,247; Aug. 31; Gaz. vol. 217; p. 1586.
- Walker, William N., Rome, N. Y. Internal-combustion engine. No. 1,130,045; Mar. 2; Gaz. vol. 212; p. 71.
- Walker, William R., New York, N. Y. Manufacture of steel. (Reissue.) No. 13,861; Jan. 5; Gaz. vol. 210; p. 364.
- Walker, William R., New York, N. Y. Manufacture of steel. No. 1,155,849; Oct. 5; Gaz. vol. 219; p. 184.
- Walker, William T., assignor of one-half to J. A. Wheeler, Roanoke, Va. Rail-bender. No. 1,127,124; Feb. 2; Gaz. vol. 211; p. 163.
- Walker, William W., assignor to MacAndrews & Forbes Company, Camden, N. J. Fire-extinguishing composition. No. 1,161,090; Nov. 23; Gaz. vol. 220; p. 1074.
- Walker, Willis F., Shesholtzville, Pa. Necktie-holder. No. 1,149,800; Aug. 10; Gaz. vol. 217; p. 572.
- Walke, Andrew, Florida City, Fla. Sounding toy. No. 1,163,049; Dec. 7; Gaz. vol. 221; p. 110.
- Walkup, Samuel T., New York, N. Y. Controller for power-operated mechanism. No. 1,135,416; Apr. 13; Gaz. vol. 213; p. 515.
- Wall, Charles F., and F. Harker, Philadelphia, Pa. Double-radius grinding-machine. No. 1,140,421; May 25; Gaz. vol. 214; p. 1057.
- Wall, Charles M., et al. (See Cox, Thomas E., assignor.)
- Wall, Clarence A. (See Winn and Wall.)
- Wall, Enos A., Salt Lake City, Utah. Nut-lock. No. 1,151,632; Aug. 31; Gaz. vol. 217; p. 1374.
- Wall, George L., assignor to Lima Locomotive Corporation, Lima, Ohio. Cast-steel vestibule-frame. No. 1,138,028; May 4; Gaz. vol. 214; p. 106.
- Wall, Joseph T., St. Louis, Mo. Window-sash lock. No. 1,158,599; Nov. 2; Gaz. vol. 220; p. 67.
- Wall, Patrick. (See McCue, William T., assignor.)
- Wall, Patrick, Pittsburgh, Pa. Can or receptacle. No. 1,157,269; Oct. 19; Gaz. vol. 219; p. 736.
- Wall, Robert C., Philadelphia, Pa. Top-holder for vehicles. No. 1,139,742; May 18; Gaz. vol. 214; p. 784.
- Wall, Robert E., Wilson, N. C. Stamp-canceled. No. 1,134,652; Apr. 6; Gaz. vol. 213; p. 208.
- Wallace, Allen, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Non-chattering brake-hanger. No. 1,138,430; May 4; Gaz. vol. 214; p. 250.
- Wallace, Andrew H., St. Catharines, Ontario, Canada. Photographic-printing device. No. 1,159,441; Nov. 9; Gaz. vol. 220; p. 392.
- Wallace, Archibald L., London, England. Wrench. No. 1,130,863; Mar. 9; Gaz. vol. 212; p. 390.
- Wallace, Charles V., assignor, by mesne assignments, to Economy Feed Water Heater Company, Tulsa, Okla. Feed-water heater. No. 1,157,472; Oct. 19; Gaz. vol. 219; p. 807.
- Walling, Clyde E., South Whitley, Ind. Grinding-machine. No. 1,143,337; June 15; Gaz. vol. 215; p. 866.
- Wallace, Curtis C., Estelline, Tex. Envelop. No. 1,126,596; Jan. 26; Gaz. vol. 210; p. 1318.
- Wallace, Ernest C., Woodwards, Me. Heel for boots and shoes. No. 1,130,356; Mar. 2; Gaz. vol. 212; p. 178.
- Wallace, Forrest E., Franklin, Cal. Telegraph-repeater. No. 1,131,447; Mar. 9; Gaz. vol. 212; p. 591.
- Wallace, Francis C., Drummond, Md., and C. F. Forsyth, Washington, D. C., assignors, by mesne assignments, to Little Giant Manufacturing Company. Combined bottle-cap and remover. (Reissue.) No. 13,908; Apr. 27; Gaz. vol. 213; p. 1412.
- Wallace, George L. (See Kennedy, William D., assignor.)
- Wallace, Harry P. (See Grigg, James, assignor.)
- Wallace, Herbert A., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,163,720; Dec. 14; Gaz. vol. 221; p. 391.
- Wallace, James, Oakland, Cal. Theater and like chair. No. 1,145,340; July 6; Gaz. vol. 216; p. 126.
- Wallace, James C., Denver, Colo. Railway-rail joint. No. 1,132,232; Mar. 16; Gaz. vol. 212; p. 907.
- Wallace, James G., New York, N. Y. Type-bar action. No. 1,163,574; Dec. 7; Gaz. vol. 221; p. 293.
- Wallace, James S., Jaeger, W. Va. Coal-mining machine. No. 1,159,302; Nov. 2; Gaz. vol. 220; p. 311.
- Wallace, John E., New York, N. Y. Air-brake system. No. 1,130,224; Mar. 2; Gaz. vol. 212; p. 133.
- Wallace, John G., and A. Bell, assignors to Hale and Kilburn Company, Philadelphia, Pa. Door. No. 1,156,950; Oct. 19; Gaz. vol. 219; p. 621.
- Wallace, John H., Gloversville, N. Y. Sole and heel for slippers. No. 1,140,639; May 25; Gaz. vol. 214; p. 1135.
- Wallace, Joseph H. (See Waern, Adolph W., assignor.)
- Wallace, Kenneth J., Brockton, Mass. Police signal-station. No. 1,138,334; May 4; Gaz. vol. 214; p. 216.
- Wallace, MacKee B., San Francisco, Cal. Parcel-post egg-carrier. No. 1,131,579; Mar. 9; Gaz. vol. 212; p. 635.
- Wallace, Malcolm F., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stamping or embossing machine. No. 1,127,553; Feb. 9; Gaz. vol. 211; p. 352.
- Wallace Novelty Company, The. (See Bouchery, August, assignor.)
- Wallace, Orville G., Roxbury, Ohio. Caster. No. 1,127,125; Feb. 2; Gaz. vol. 211; p. 163.
- Wallace, Paul, Philadelphia, Pa. Spinning-machine. No. 1,131,580; Mar. 9; Gaz. vol. 212; p. 636.
- Wallace, Robert L., San Jose, Cal. Lime-juice extractor. No. 1,129,254; Feb. 23; Gaz. vol. 211; p. 1031.
- Wallace, Roger W., and E. Wassmer, London, England. Production of nitrogen. No. 1,154,145; Sept. 21; Gaz. vol. 218; p. 700.
- Wallace & Smith Co., The. (See Bloomberg, Joseph E., assignor.)
- Wallace, Steve C. (See Ernest, Albert C., assignor.)
- 1,158,343; Oct. 26; Gaz. vol. 219; p. 1173.
- Wallace, Willard. (See Ryce and Wallace.)
- Wallace, William F., New Braunfels, Tex. Coilar-fastener. No. 1,147,057; July 20; Gaz. vol. 216; p. 770.
- Wallberg, Frank, Jersey City, N. J., assignor of one-half to F. Lawrence, Brooklyn, N. Y. Flying-machine. No. 1,123,438; Jan. 5; Gaz. vol. 210; p. 83.
- Wallen, Allen D., Cane Hill, Mo. Folding egg-crate. No. 1,166,097; Dec. 28; Gaz. vol. 221; p. 1299.
- Wallenstein, Ralph, Cincinnati, Ohio. Cigarette-holder. No. 1,164,434; Dec. 14; Gaz. vol. 221; p. 640.
- Waller, Charles W., Chicago, Ill. Flying-machine. No. 1,132,049; Mar. 16; Gaz. vol. 212; p. 840.
- Waller, Charles W., Chicago, Ill. Sound-reproducing machine. No. 1,139,387; May 11; Gaz. vol. 214; p. 623.
- Waller, Charles W., assignor of one-half to F. A. Franzmann, Chicago, Ill. Signaling device. No. 1,126,320; Jan. 26; Gaz. vol. 210; p. 1217.
- Waller, Peter A., assignor to Boss Manufacturing Company, Kewanee, Ill. Finger stall or cot. No. 1,123,630; Jan. 5; Gaz. vol. 210; p. 148.
- Walles, Herman, Chicago, Ill. Tow-line. No. 1,145,722; July 6; Gaz. vol. 216; p. 262.
- Wallett, Oliver D., Pittsburgh, Pa. Pile-core. No. 1,164,435; Dec. 14; Gaz. vol. 221; p. 640.
- Wallin, Jennie, Rockford, Ill. Acrobat's stand. No. 1,128,201; Feb. 9; Gaz. vol. 211; p. 579.
- Wallin, Knute F., New York, N. Y. Nasal inhaler. No. 1,160,797; Nov. 16; Gaz. vol. 220; p. 927.
- Walling, Samuel E., Bellingham, Wash. Sawing-machine. No. 1,149,483; Aug. 10; Gaz. vol. 217; p. 457.
- Walling, William F., Los Angeles, Cal. Making imitation-tile flooring. No. 1,132,502; Mar. 16; Gaz. vol. 212; p. 1006.
- Wallmann, Adelheid, et al. (See Wallmann, Henning F., assignor.)
- Wallmann, Henning F., Chicago, Ill. Manufacturing gas. No. 1,146,776; July 13; Gaz. vol. 216; p. 650.
- Wallmann, Henning F., assignor of one-half to A. W. R., and H. H. Wallmann, Chicago, Ill. Gas-producer. No. 1,125,919; Jan. 19; Gaz. vol. 210; p. 1039.
- Wallmann, Henning H., et al. (See Wallmann, Henning F., assignor.)
- Wallmann, Johann G., Oakland, Cal. Radiator. No. 1,124,356; Jan. 12; Gaz. vol. 210; p. 450.
- Wallmann, Johann G., Oakland, Cal. Liquid-fuel control for motor-cars. No. 1,124,564; Jan. 12; Gaz. vol. 210; p. 521.
- Wallmann, Johann G., Oakland, Cal. Device for regulating the speed of motor-cars. No. 1,160,472; Nov. 16; Gaz. vol. 220; p. 809.

- Wallmann, Wilhelm R., *et al.* (See Wallmann, Henning F., assignor.)
- Walls, Percy B., Los Angeles, Cal. Lock for gear-levers. No. 1,136,568; Apr. 20; Gaz. vol. 213; p. 964.
- Walp, Sherman T., Springfield, Ohio. Planter. No. 1,137,933; May 4; Gaz. vol. 214; p. 73.
- Walpole, Benjamin M., assignor to Builders Iron Foundry, Providence, R. I. Fluid-meter. No. 1,146,377; July 13; Gaz. vol. 216; p. 510.
- Walpole Shoe Supply Company. (See Moulton, James N., assignor.)
- Walpole Shoe Supply Company. (See Wescott, William B., assignor.)
- Walradt, Ida A., Evans Mills, N. Y. Fly-paper holder. No. 1,149,101; Aug. 3; Gaz. vol. 217; p. 216.
- Walser, Eugene O., Los Angeles, Cal. Gear-shifting mechanism. No. 1,138,914; May 11; Gaz. vol. 214; p. 457.
- Walser, John B., Lebanon, Mo. Window-balance. No. 1,131,097; Mar. 9; Gaz. vol. 212; p. 470.
- Walser, Joseph J., assignor to The Goss Printing Press Company, Chicago, Ill. Plate-finishing machine. No. 1,127,126; Feb. 2; Gaz. vol. 211; p. 164.
- Walser, Joseph J., and C. A. Dresser, assignors to The Goss Printing Press Company, Chicago, Ill. Controlling mechanism for printing-presses. No. 1,157,740; Oct. 26; Gaz. vol. 219; p. 963.
- Walser, Max, Sampierdarena, Italy. Cutting-tool for high-speed work. No. 1,129,925; Mar. 2; Gaz. vol. 212; p. 32.
- Walsh, Charles N. (See Darby and Walsh.)
- Walsh, Edward B., Los Angeles, Cal. Signal device for submarine vessels. No. 1,153,277; Sept. 14; Gaz. vol. 218; p. 360.
- Walsh, Eugene W., New York, N. Y. Clothes-line support. No. 1,127,127; Feb. 2; Gaz. vol. 211; p. 164.
- Walsh, Fletcher V., and C. M. Reed, San Francisco, Cal. Printing-plate for colored photo-engraving and producing the same. No. 1,157,197; Oct. 19; Gaz. vol. 219; p. 709.
- Walsh, Fletcher V., and C. M. Reed, San Francisco, Cal. Photo-engraving camera. No. 1,162,956; Dec. 7; Gaz. vol. 221; p. 77.
- Walsh, Frank T. (See Burke, William P., assignor.)
- Walsh, Harry C. H., Chicago, Ill. Automatic clutch for die-presses. No. 1,133,344; Mar. 30; Gaz. vol. 212; p. 1395.
- Walsh, Harry C. H., assignor to Walsh Press & Die Co., Chicago, Ill. Die-press. No. 1,146,978; July 20; Gaz. vol. 216; p. 742.
- Walsh, John, Philadelphia, Pa. Shoe-brushing machine. No. 1,127,834; Feb. 9; Gaz. vol. 211; p. 452.
- Walsh, John B., Brooklyn, assignor of one-fourth to A. Coleman and one-fourth to S. Coleman, New York, N. Y. Type-mold box. No. 1,157,473; Oct. 19; Gaz. vol. 219; p. 808.
- Walsh, John L., assignor to Ideal Machinery Company, Chicago, Ill. Unwinding device for spools. No. 1,132,050; Mar. 16; Gaz. vol. 212; p. 841.
- Walsh, John L., assignor of one-half to T. J. Conley, Chicago, Ill. Unwinding device for spools. No. 1,159,815; Nov. 9; Gaz. vol. 220; p. 526.
- Walsh, John F., assignor of one-half to H. J. McGuckin, New York, N. Y. Lamp-burner. No. 1,131,581; Mar. 9; Gaz. vol. 212; p. 636.
- Walsh, John P., assignor of one-half to H. J. McGuckin, New York, N. Y. Can-opener. No. 1,131,582; Mar. 9; Gaz. vol. 212; p. 636.
- Walsh, John P., assignor of one-half to H. J. McGuckin, New York, N. Y. Oil-burning furnace. No. 1,151,311; Aug. 24; Gaz. vol. 217; p. 1218.
- Walsh, John P., assignor of one-half to H. J. McGuckin, New York, N. Y. Headlight for automobiles and the like. No. 1,152,676; Sept. 7; Gaz. vol. 218; p. 110.
- Walsh, John T., Ottawa, Ill. Whipping device. No. 1,139,606; May 18; Gaz. vol. 214; p. 735.
- Walsh, John V., Haverhill, Mass. Finishing hat-bodies. No. 1,152,387; Aug. 31; Gaz. vol. 217; p. 1637.
- Walsh, Philip R. (See Stiers, Frank A., assignor.)
- Walsh Press & Die Co. (See Walsh, Harry C. H., assignor.)
- Walsh, Timothy. (See Meredith and Walsh.)
- Walsh, William B. (See Bonner and Walsh.)
- Walsh, William P., *et al.* (See Markham, James W., assignor.)
- Walsh's Holyoke Steam Boiler Works. (See Bailey, George W., assignor.)
- Walstad, Otto A., and S. O. Peterson, Minneapolis, Minn. Voting-chart. No. 1,123,439; Jan. 5; Gaz. vol. 210; p. 83.
- Walston, Thomas B., Williamsport, Ohio. Derrick apparatus. No. 1,154,460; Sept. 21; Gaz. vol. 218; p. 808.
- Walstrom, Lee W. (See Frosgir and Walstrom.)
- Walter A. Wood Mowing and Reaping Machine Co. (See Cluett and Blackett, assignors.)
- Walter A. Wood Mowing & Reaping Machine Company. (See Smith, Ernest C., assignor.)
- Walter, Arthur G., Grand Haven, Mich. Draining system for cargo of sand-boats. No. 1,150,981; Aug. 24; Gaz. vol. 217; p. 1106.
- Walter, Bruce, Pittsburgh, Pa., assignor to J. Gayley, New York, N. Y. Dry-blast system. No. 1,134,568; Apr. 6; Gaz. vol. 213; p. 177.
- Walter, Daniel, Hove, England. Locking device for case-ment-stays. No. 1,148,877; Aug. 3; Gaz. vol. 217; p. 139.
- Walter, David C., assignor of one-half to C. J. Reuscher, Toledo, Ohio. Pipe-threading machine. No. 1,153,835; Sept. 14; Gaz. vol. 218; p. 559.
- Walter, Edward C., New York, N. Y. Automatic stopping device for phonographs. No. 1,141,507; June 1; Gaz. vol. 215; p. 150.
- Walter, Edward L. and M., New York, N. Y.; said Edward L. Walter assignor of two-fifths of whole right to H. A. Chadwick, Moberly, Mo. Differential gearing for motor-vehicles. No. 1,164,769; Dec. 21; Gaz. vol. 221; p. 797.
- Walter, Fred R., Geneseo, Ill. Harness-bit. No. 1,129,255; Feb. 23; Gaz. vol. 211; p. 1031.
- Walter G. Ruggles Co. (See Kimball, James L., assignor.)
- Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Box having solid ends. No. 1,125,782; Jan. 19; Gaz. vol. 210; p. 992.
- Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Box. No. 1,134,782; Apr. 6; Gaz. vol. 213; p. 256.
- Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Sealing means for boxes. No. 1,140,927; May 25; Gaz. vol. 214; p. 1236.
- Walter, Harry C., New York, N. Y. Mechanical hedge-clipper. No. 1,124,824; Jan. 12; Gaz. vol. 210; p. 614.
- Walter, John, assignor of one-half to F. Hotter, Philadelphia, Pa. Indicating device. No. 1,142,645; June 8; Gaz. vol. 215; p. 583.
- Walter M. Lowney Company, The. (See Green, Charles M., assignor.)
- Walter, Maurice. (See Walter, Edward L. and M.)
- Walter, Maurice, New York, N. Y. Differential gearing for motor-vehicles. No. 1,164,770; Dec. 21; Gaz. vol. 221; p. 797.
- Walter, Sanford F. (See Lyons and Gruenberg, assignors.)
- Walter, William H., New York, N. Y. Safety pressure device. No. 1,127,128; Feb. 2; Gaz. vol. 211; p. 164.
- Walter, Woodford R., Claremore, Okla. Screen. No. 1,126,140; Jan. 26; Gaz. vol. 210; p. 1152.
- Walters, Arthur A., Sandusky, Ohio. Whip-socket. No. 1,165,302; Dec. 21; Gaz. vol. 221; p. 982.
- Walters, Bert, assignor to C. H. Kay, Springfield, Ohio. Resilient wheel. No. 1,140,088; May 18; Gaz. vol. 214; p. 908.
- Walters, Edward, Chicago, Ill. Yoke for draw-bars. No. 1,135,474; Apr. 13; Gaz. vol. 213; p. 535.
- Walters, Edward R., and A. Huffman, Arcadia, Ohio. Planter. No. 1,162,001; Nov. 30; Gaz. vol. 220; p. 1442.
- Walters, Frank A., W. M. Beckman, and A. W. Kohl, Minneapolis, Minn. Trouble-lamp. No. 1,146,979; July 20; Gaz. vol. 216; p. 742.
- Walters, John W., Nevada, Mo. Wrench. No. 1,155,979; Oct. 5; Gaz. vol. 219; p. 226.
- Walters, Linwood A., assignor of one-half to S. D. Shelton, Alexandria, Va. Railway-tie. No. 1,161,091; Nov. 23; Gaz. vol. 220; p. 1075.
- Walters, Lonnie, Lavonia, Ga. Cotton-stalk puller and cutter. No. 1,148,878; Aug. 3; Gaz. vol. 217; p. 140.
- Walters, Samuel O., Royersford, Pa. Cuspidor. No. 1,141,734; June 1; Gaz. vol. 215; p. 229.
- Walters, Scott C., Albany, Wis. Work-holder for bench-vises. No. 1,136,853; Apr. 20; Gaz. vol. 213; p. 1064.
- Waltham Watch Company. (See Aune, Anders, assignor.)
- Waltham Watch Company. (See Marsh, Edward A., assignor.)
- Waltham Watch Company. (See Ohlson, Olof, assignor.)
- Waltham Watch Company. (See Rushton, John W., assignor.)
- Walther, Reinhold F. von, Dresden, assignor to T. D. Biedel Actiengesellschaft, Berlin, Germany. Production of antiseptically-acting bodies. No. 1,144,270; June 22; Gaz. vol. 215; p. 1215.
- Walther, Richard J., assignor to The American Pulley Company, Philadelphia, Pa. Pulley-bushing. No. 1,126,321; Jan. 26; Gaz. vol. 210; p. 1218.
- Walton, Albert, Boston, Mass., assignor to Westinghouse Electric and Manufacturing Company. Speed-controlling device. No. 1,144,012; June 22; Gaz. vol. 215; p. 1123.
- Walton, Birt L. (See Donze and Walton.)
- Walton, Charles S., Los Angeles, Cal. Lock device for fuse-blocks or cut-outs. No. 1,164,148; Dec. 14; Gaz. vol. 221; p. 540.
- Walton, Ethel C. (See Child, Hal G., assignor.)
- Walton, George D., Nakusp, British Columbia, Canada. Match-lighter. No. 1,123,440; Jan. 5; Gaz. vol. 210; p. 84.
- Walton, George E., Berkeley, Cal. Self-adjusting socket-coupling. No. 1,164,400; Dec. 14; Gaz. vol. 221; p. 503.
- Walton, Harrison B., and J. M. Estes, Levee Camp, Miss; said Estes assignor to said Walton. Spring-latch for wheeled scrapers. No. 1,131,755; Mar. 16; Gaz. vol. 212; p. 733.
- Walton, Harry. (See McKerrow, Walton, and Shear-smith.)

Alphabetical list of patentees—Continued.

- Walton, Jerrold F., Sturgis, Mich. Adjustable chair. No. 1,137,246; Apr. 27; Gaz. vol. 213; p. 1243.
- Walton, Jerrold F., Sturgis, Mich. Furniture. No. 1,165,471; Dec. 28; Gaz. vol. 221; p. 1080.
- Walton, John M., New Orleans, La. Spark-plug. No. 1,132,811; Mar. 23; Gaz. vol. 212; p. 1168.
- Walton, Morris A. (See Weatherhead, Douglas C., assignor.)
- Walton, Roy G. (See Brinker, Frederic A., assignor.)
- Walton, William G., Philadelphia, Pa. Lock for the steering-gear of motor-vehicles. No. 1,145,281; July 6; Gaz. vol. 216; p. 106.
- Walton, William L., Bantny, N. D. Transmission-controlling device for tractors. No. 1,125,226; Jan. 19; Gaz. vol. 210; p. 793.
- Walton, William L., Bantny, N. D. Clutch for power-loom-lifting mechanism. No. 1,150,795; Aug. 17; Gaz. vol. 217; p. 984.
- Walworth Manufacturing Company. (See Earle, Harry C., assignor.)
- Walz, August F., St. Louis, Mo. Sorting-cabinet. No. 1,143,668; June 22; Gaz. vol. 215; p. 1004.
- Walz, Edgar A., Jr., New York, N. Y. Guide-signal for automobiles. No. 1,154,461; Sept. 21; Gaz. vol. 218; p. 808.
- Walz, Edgar A., Jr., New York, N. Y. Wiring system. No. 1,154,462; Sept. 21; Gaz. vol. 218; p. 809.
- Walz, Friedrich, Böblingen, assignor to Fortuna-Werke, Spezialmaschinenfabrik, G. m. b. H., Stuttgart-Cannstatt, Germany. Machine for taking shoes off the last. No. 1,165,818; Dec. 28; Gaz. vol. 221; p. 1202.
- Wamelink, Eugene C., Cleveland, Ohio. Piano-player. No. 1,154,146; Sept. 21; Gaz. vol. 218; p. 700.
- Wamelink, Eugene C., Cleveland, Ohio. Pneumatic piano-player. No. 1,156,951; Oct. 19; Gaz. vol. 219; p. 621.
- Wanamaker, Charles B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Snare-drum. No. 1,144,452; June 29; Gaz. vol. 215; p. 1306.
- Wanamaker, Henry, and J. McAllister, Albany, N. Y., assignors to Chicago Pneumatic Tool Company, Chicago, Ill. Drilling-machine. No. 1,135,475; Apr. 13; Gaz. vol. 213; p. 536.
- Wanamaker, Joseph A. (See O'Neal and Wanamaker.)
- Wandel Screen Manufacturing Company. (See Clarke, Ralph S., assignor.)
- Wanderer Werke vorm. Winkhofer & Jaenicke Akt.-Ges. (See Buschmann, Theodor E., assignor.)
- Wanderer-Werke vormals Winkhofer & Jaenicke, A. G. (See Greve, John E. W., assignor.)
- Wanders, Cornelis, Oakton, S. D. Toy aeroplane. No. 1,165,303; Dec. 21; Gaz. vol. 221; p. 983.
- Wang, Yu, New York, N. Y. Computing instrument. No. 1,160,798; Nov. 16; Gaz. vol. 220; p. 927.
- Wankel, Frank, assignor to American Toy Works, New York, N. Y. Spinning device. No. 1,130,554; Mar. 2; Gaz. vol. 212; p. 251.
- Wanner, Albert, Jr. (See Baum, Albert J., assignor.)
- Wanner, Albert, Jr., New York, N. Y. Furniture-brace. No. 1,124,080; Jan. 5; Gaz. vol. 210; p. 299.
- Wantzen, Anton J. (See Dünnebiel and Winkler, assignors.)
- Wappler Electric Manufacturing Company. (See Wappler, Reinhold H., assignor.)
- Wappler, Reinhold H., New York, N. Y. Cystoscope. No. 1,127,948; Feb. 9; Gaz. vol. 211; p. 492.
- Wappler, Reinhold H., assignor to Wappler Electric Manufacturing Company, Inc., New York, N. Y. Therapeutic electric apparatus. No. 1,127,554; Feb. 9; Gaz. vol. 211; p. 352.
- Wappler, Reinhold H., assignor to Wappler Electric Manufacturing Company, Inc., New York, N. Y. X-ray tube. No. 1,152,578; Sept. 7; Gaz. vol. 218; p. 74.
- Wappler, Reinhold H., assignor to American Cystoscope Makers, Inc., New York, N. Y. Therapeutic electrode. No. 1,146,292; July 13; Gaz. vol. 216; p. 480.
- Wappler, Reinhold H., assignor to American Cystoscope Makers, Inc., New York, N. Y. Handle for illuminative diagnostic and surgical instruments. No. 1,158,600; Nov. 2; Gaz. vol. 220; p. 68.
- Wappler, Reinhold H., assignor to American Cystoscope Makers, Inc., New York, N. Y. Handle for illuminative diagnostic and surgical instruments. No. 1,162,198; Nov. 30; Gaz. vol. 220; p. 1511.
- Warbrick, John W., Spokane, Wash. Candle-holder. No. 1,150,405; Aug. 17; Gaz. vol. 217; p. 850.
- Warburton, Robert L., and H. Wolfe, Newark, N. J. Vehicle-signal. No. 1,165,472; Dec. 28; Gaz. vol. 221; p. 1081.
- Ward, Artemus, Jr. (See Chase and Ward.)
- Ward, Arthur, Greystone, R. I. Electric control for elevators. No. 1,160,678; Nov. 16; Gaz. vol. 220; p. 886.
- Ward, Arthur H. (See Erni and Ward.)
- Ward, Ashley F., Boston, Mass., assignor to The A. F. Ward Machinery Co. Dough-dividing machine. No. 1,144,952; June 29; Gaz. vol. 215; p. 1475.
- Ward, Ashley F., assignor to The A. F. Ward Machinery Company, Boston, Mass. Making pan-biscuit. No. 1,144,953; June 29; Gaz. vol. 215; p. 1476.
- Ward B. Story Company. (See Story, Ward B., assignor.)
- Ward Baking Company. (See Kohman, Hoffman, and Blake, assignors.)
- Ward, Charles, deceased, and C. E. Ward; said C. E. Ward, administrator, assignor, as administrator and for himself, to The Charles Ward Engineering Works, Charleston, W. Va. Water-tube boiler. No. 1,152,248; Aug. 31; Gaz. vol. 217; p. 1586.
- Ward, Charles A., New York, N. Y. Variable-torque transmission device. No. 1,150,235; Aug. 17; Gaz. vol. 217; p. 790.
- Ward, Charles E. (See Ward, Charles and C. E.)
- Ward, Charles E., administrator. (See Ward, Charles and C. E.)
- Ward, Charles F., and W. H. Clay, assignors of one-third to P. Prather, Lexington, Ky. Vehicle-wheel. No. 1,138,335; May 4; Gaz. vol. 214; p. 217.
- Ward, Charles W. (See Brooks, Lawrence R., assignor.)
- Ward, Charles W., East St. Louis, Ill. Trolley-operated contact. No. 1,151,981; Aug. 31; Gaz. vol. 217; p. 1495.
- Ward, Charles W., Lakewood, Ohio. Sempahore-operating mechanism. No. 1,153,739; Sept. 14; Gaz. vol. 218; p. 525.
- Ward, Charles W., Lakewood, Ohio. Electrical signaling system and apparatus. No. 1,156,334; Oct. 12; Gaz. vol. 219; p. 374.
- Ward, Eugene S., assignor to Oregon Electric Gun Co., Incorporated, Portland, Ore. Search-light for firearms. No. 1,149,705; Aug. 10; Gaz. vol. 217; p. 539.
- Ward, Eugene S., assignor to Oregon Electric Gun Company, Portland, Ore. Search-light firearm. No. 1,150,796; Aug. 17; Gaz. vol. 217; p. 984.
- Ward, Frank D., New York, N. Y. Car-wheel. No. 1,163,721; Dec. 14; Gaz. vol. 221; p. 391.
- Ward, Frank D., New York, N. Y., assignor to Sauvage Ward Brake Company, Inc. Light and load brake. No. 1,156,952; Oct. 19; Gaz. vol. 219; p. 622.
- Ward, Frank F., Schoolcraft, Mich. Broom rack and holder. No. 1,140,422; May 25; Gaz. vol. 214; p. 1058.
- Ward, Frederick A., assignor to The Gear Grinding Machine Company, Detroit, Mich. Grinding-wheel-trimming mechanism. No. 1,133,075; Mar. 23; Gaz. vol. 212; p. 1264.
- Ward, Frederick A., assignor to Gear Grinding Machine Company, Detroit, Mich. Trimming mechanism for grinder-wheels of shaft-grinding machines. No. 1,155,532; Oct. 5; Gaz. vol. 219; p. 73.
- Ward, Humphrey R., Cleveland, Ohio. Aeroplane. No. 1,160,020; Nov. 9; Gaz. vol. 220; p. 598.
- Ward, Isaac E., assignor to The Fouquet-Ward Bale Tying Company, Andale, Kans. Hay-baler. No. 1,156,828; Oct. 12; Gaz. vol. 219; p. 548.
- Ward, Jarrett M., Jarrettsville, Md. Nut-lock. No. 1,162,531; Nov. 30; Gaz. vol. 220; p. 1626.
- Ward, John C., Quincy, assignor of one-half to W. J. Bigley, Somerville, Mass. Hollow body of fibrous material. No. 1,156,193; Oct. 12; Gaz. vol. 219; p. 326.
- Ware, Joseph L., St. Paul, Minn. Forming twine. No. 1,165,819; Dec. 28; Gaz. vol. 221; p. 1202.
- Ward, Leon, and J. V. Miller, Massillon, Ohio. Pot-lid. No. 1,145,723; July 6; Gaz. vol. 216; p. 262.
- Ward, Lynford A., and W. D. Chase, Brooklyn, N. Y. Identification device for automobiles. No. 1,153,278; Sept. 14; Gaz. vol. 218; p. 360.
- Ward, Orin W., *et al.* (See Connor, Patrick F., assignor.)
- Ward, Orin W., New York, N. Y. Mailing-case for eggs. No. 1,149,877; Aug. 10; Gaz. vol. 217; p. 600.
- Ward, Samuel M., Jr., assignor, by mesne assignments, to Hall Switch & Signal Company, New York, N. Y. Galvanic cell. No. 1,145,950; July 13; Gaz. vol. 216; p. 360.
- Ward, Thomas, Lubec, Me., assignor to American Can Company, New York, N. Y. Alternating feeding mechanism. No. 1,158,088; Oct. 26; Gaz. vol. 219; p. 1084.
- Ward, Thomas H., and R. K. Seals, California, Pa. Heating apparatus. No. 1,135,562; Apr. 13; Gaz. vol. 213; p. 567.
- Ward, Webster L., Mohawk, Tenn., assignor to Curtis-Ward Company, Chicago, Ill. Portable turn-table. No. 1,123,825; Jan. 5; Gaz. vol. 210; p. 214.
- Ward, William, *et al.* (See Moffitt, Allison, assignor.)
- Ward, William L., and G. M. Rudd, assignors to Russell, Burdall & Ward Bolt and Nut Co., Port Chester, N. Y. Nut-tapping machine. No. 1,130,123; Mar. 2; Gaz. vol. 212; p. 98.
- Ward, William L., H. D. Remsen, and E. C. Boerner, assignors to Russell, Burdall & Ward Bolt and Nut Co., Port Chester, N. Y. Nut-making machine. No. 1,128,641; Feb. 16; Gaz. vol. 211; p. 780.
- Ward, William M., Dayton, Ohio. Closet installation and fixture. No. 1,147,664; July 20; Gaz. vol. 216; p. 982.
- Ward, William R., Kansas City, Kans. Collapsible and portable bath-tub. No. 1,130,777; Mar. 9; Gaz. vol. 212; p. 361.
- Wardell, Edward T., St. Paul, Minn. Transparent vacuum-jacket for liquid-dispensing bottles. No. 1,161,092; Nov. 23; Gaz. vol. 220; p. 1075.
- Warden, Clarence C., Reno, Nev. Rake-cleaner. No. 1,142,740; June 8; Gaz. vol. 215; p. 613.
- Warden, Harry E., Detroit, Mich. Paving-block. No. 1,156,117; Oct. 12; Gaz. vol. 219; p. 302.

- Warden, Louis, Edmonton, Alberta, Canada. Cue-chalker. No. 1,129,768; Feb. 23; Gaz. vol. 211; p. 1207.
- Warden, William F., Akron, Ohio. Filter. No. 1,140,726; May 25; Gaz. vol. 214; p. 1163.
- Warden, William F., Akron, Ohio. Oil-filter. No. 1,140,727; May 25; Gaz. vol. 214; p. 1163.
- Wardlaw, Joseph M., Belton, S. C. Gearing for mowing-machines. No. 1,162,323; Nov. 30; Gaz. vol. 220; p. 1555.
- Wardrobe Box Company. (See Lyons, Irving H., assignor.)
- Wardwell, Charles H., Rutland, Vt., and R. D. Morrison, Providence, R. I. Container for paste. No. 1,142,130; June 8; Gaz. vol. 215; p. 405.
- Wardwell, Harold F., assignor to Detroit Steel Products Company, Detroit, Mich. Mullion. No. 1,157,827; Oct. 26; Gaz. vol. 219; p. 992.
- Wardwell, Simon W., Providence, R. I. Stop device for winding-machines. No. 1,151,073; Aug. 24; Gaz. vol. 217; p. 1137.
- Wardy, Harry A., Kalamazoo, Mich. Filing device. No. 1,146,465; July 13; Gaz. vol. 216; p. 544.
- Wardy, Harry A., Kalamazoo, Mich. Index system. No. 1,146,466; July 13; Gaz. vol. 216; p. 545.
- Wardy, Harry A., Kalamazoo, Mich. Filing-cabinet. No. 1,146,778; July 13; Gaz. vol. 216; p. 651.
- Wardy, Harry A., assignor to W. M. Blinks, trustee, Kalamazoo, Mich. Filing-cabinet. No. 1,146,464; July 13; Gaz. vol. 216; p. 544.
- Wardy, Harry A., St. Louis, Mo., assignor to W. M. Blinks, trustee, Kalamazoo, Mich. Filing-cabinet. No. 1,146,777; July 13; Gaz. vol. 216; p. 650.
- Ware, John H. (See Brisbols, Odilon, assignor.)
- Ware, John H. (See Brown, Charles T., assignor.)
- Ware, Joseph L., St. Paul, Minn. Four-wheel drive. No. 1,135,085; Apr. 13; Gaz. vol. 213; p. 402.
- Ware, Joseph L., St. Paul, Minn. Traction-wheel steering-drive. No. 1,155,850; Oct. 5; Gaz. vol. 219; p. 184.
- Ware, Rodney B., Springfield, Mass. Pick-up for flat implements. No. 1,145,531; July 6; Gaz. vol. 216; p. 194.
- Ware, Walter F., Haddonfield, N. J. Folding display-box. No. 1,146,827; July 20; Gaz. vol. 216; p. 688.
- Ware, Walter F., Haddonfield, N. J. Inhaler. No. 1,165,473; Dec. 28; Gaz. vol. 221; p. 1081.
- Wareham, Edward J., assignor of one-half to C. L. Edell, Chicago, Ill. Grain-trier. No. 1,152,133; Aug. 31; Gaz. vol. 217; p. 1547.
- Wareham, Percy, Sharon, Pa. Baler. No. 1,162,833; Dec. 7; Gaz. vol. 221; p. 36.
- Warfel, H. E. (See Graham, Elias, assignor.)
- Warffuel, Ernest M., *et al.* (See Cole, William B., assignor.)
- Warford, Norman L., Anaconda, Mont. Pulverized-coal burner. No. 1,147,833; July 27; Gaz. vol. 216; p. 1066.
- Warg, Robert, Milwaukee, Wis. Centrifugal fan. No. 1,156,118; Oct. 12; Gaz. vol. 219; p. 302.
- Waring, Arthur B. (See West, Francis M., assignor.)
- Wark, Alex. (See Lock, John R., assignor.)
- Warlick, Charles D., Salisbury, N. C. Table. No. 1,158,601; Nov. 2; Gaz. vol. 220; p. 68.
- Warlick, Sam J., and J. H. Bunker, Kiowa, Kans. Device for truing spherical bodies. No. 1,156,953; Oct. 19; Gaz. vol. 219; p. 623.
- Warman, Ora J., assignor, by mesne assignments, to The Buckeye Products Company, Cincinnati, Ohio. Metal-melting furnace. No. 1,158,875; Nov. 2; Gaz. vol. 220; p. 164.
- Warman, William A. (See Keller, Warman, and Parr.)
- Warman, William A., Brooklyn, N. Y. Photographic camera. No. 1,146,293; July 13; Gaz. vol. 216; p. 481.
- Warne, Ivar F., assignor to Continental Can Company, Inc., Syracuse, N. Y. Can-closing machine. No. 1,132,291; Mar. 16; Gaz. vol. 212; p. 930.
- Warne, Ivar F., Syracuse, N. Y., assignor, by mesne assignments, to Continental Can Company, Inc. Can-closing machine. No. 1,151,840; Aug. 31; Gaz. vol. 217; p. 1446.
- Warming, Kai, assignor to Aktieselskabet Dansk Svovlsyre- & Superphosphatfabrik, Copenhagen, Denmark. Auxiliary bottom. No. 1,157,132; Oct. 19; Gaz. vol. 219; p. 686.
- Warmington, Alfred P., New York, N. Y. Strainer for funnels. No. 1,150,910; Aug. 24; Gaz. vol. 217; p. 1081.
- Warne, Alfred, Miami, Fla. Tobacco-box. No. 1,123,441; Jan. 5; Gaz. vol. 210; p. 84.
- Warne, Frederick C., assignor to The Roderick Lean Manufacturing Company, Mansfield, Ohio. Flexible harrow. No. 1,130,225; Mar. 2; Gaz. vol. 212; p. 133.
- Warne, Frederick C., assignor to The Roderick Lean Manufacturing Company, Mansfield, Ohio. Cultivator. No. 1,150,158; Aug. 17; Gaz. vol. 217; p. 764.
- Warner, Adna D., Mishawaka, Ind., and R. B. Price, New York, N. Y., assignors to Rubber Regenerating Company. Vulcanizing rubber. No. 1,163,050; Dec. 7; Gaz. vol. 221; p. 110.
- Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Mixing-machine. No. 1,137,037; Apr. 27; Gaz. vol. 213; p. 1167.
- Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Perculator. (Reissue.) No. 14,004; Oct. 26; Gaz. vol. 219; p. 1207.
- Warner Arms Corporation. (See Fyrberg, Andrew, assignor.)
- Warner, Arthur W. (See Carpenter and Warner.)
- Warner, Arthur W. (See Carpenter, Hibbard, and Warner.)
- Warner, Arthur W., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Means for preventing the escape of dust, &c. No. 1,137,558; Apr. 27; Gaz. vol. 213; p. 1353.
- Warner Brothers Company, The. (See Abt, Alfred, assignor.)
- Warner Brothers Company, The. (See Crandall, Jay E., assignor.)
- Warner Brothers Company. (See Johnson, Charles G., assignor.)
- Warner Brothers Company, The. (See Northey and McGee, assignors.)
- Warner Brothers Company, The. (See Warner, De Ver H., assignor.)
- Warner Brothers Company, The. (See Warner, Frederick E., assignor.)
- Warner, Charles E., Ottawa, Kans. Vehicle-jack. No. 1,139,243; May 11; Gaz. vol. 214; p. 572.
- Warner, Charles E., Ottawa, Kans. Vehicle-jack. No. 1,158,754; Nov. 2; Gaz. vol. 220; p. 120.
- Warner, Chauncey E., Sr., and A. J. Shetland, Syracuse, N. Y. Feeding device for metal-working machines. No. 1,127,129; Feb. 2; Gaz. vol. 211; p. 165.
- Warner, Daniel, Bronson, Mich. Vehicle seat attachment. No. 1,147,771; July 27; Gaz. vol. 216; p. 1044.
- Warner, Daniel, Bronson, Mich. assignor of one-half to E. Eutzler, Mishawaka, Ind. Vehicle-seat. No. 1,150,982; Aug. 24; Gaz. vol. 217; p. 1106.
- Warner, De Ver H., assignor to The Warner Brothers Company, Bridgeport, Conn. Buckle. No. 1,132,051; Mar. 16; Gaz. vol. 212; p. 841.
- Warner, Edward, Weehawken, N. J. Flying-machine. No. 1,160,473; Nov. 16; Gaz. vol. 220; p. 810.
- Warner, Frank. (See Stewart, William H., assignor.)
- Warner, Frederick E., assignor to The King Machine Company, Bridgeport, Conn. Ironing-machine. No. 1,145,102; July 6; Gaz. vol. 216; p. 46.
- Warner, Frederick E., assignor to The King Machine Company, Bridgeport, Conn. Ironing-machine. No. 1,145,103; July 6; Gaz. vol. 216; p. 47.
- Warner, Frederick E., assignor to The Warner Brothers Company, Bridgeport, Conn. Making screw hooks, eyes, &c. No. 1,145,637; July 6; Gaz. vol. 216; p. 231.
- Warner, George B., Fitchburg, assignor to P. T. Jackson, Jr., Boston, Mass. Paper-tube machine. No. 1,145,872; July 6; Gaz. vol. 216; p. 315.
- Warner, Gilbert H., Indianapolis, Ind. Type-filing instrument. No. 1,136,499; Apr. 20; Gaz. vol. 213; p. 939.
- Warner Jewelry Case Company. (See Sundee, John R., assignor.)
- Warner, Joseph N., Detroit, Mich. Universal test-indicator. No. 1,139,936; May 18; Gaz. vol. 214; p. 852.
- Warner, Julius H. (See Whittemore and Warner.)
- Warner, Lewis C., Naugatuck, assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Apparatus for treating rubber. No. 1,125,609; Jan. 19; Gaz. vol. 210; p. 928.
- Warner, Mahlon, assignor of one-half to Z. Gaskill, Millville, N. J. Fender. No. 1,157,198; Oct. 19; Gaz. vol. 219; p. 710.
- Warner, Robert L., Concord, Mass. Sight for firearms. (Reissue.) No. 14,009; Nov. 9; Gaz. vol. 220; p. 635.
- Warner, Samuel T., New York, N. Y. Signal device. No. 1,138,029; May 4; Gaz. vol. 214; p. 106.
- Warner and Sivasey Company, The. (See Burrell, Edward P., assignor.)
- Warner, William F., Davenport, Iowa. Internal-combustion engine. No. 1,153,364; Sept. 14; Gaz. vol. 218; p. 393.
- Warnhoff, Charles W., St. Louis, Mo. Wire screen. No. 1,157,349; Oct. 19; Gaz. vol. 219; p. 763.
- Warnholz, George W. (See Spencer, Warnholz, and Wigmore.)
- Warnick, Robert G., *et al.* (See Jones, Jefferson D., assignor.)
- Warning, Charles F. (See Harmon and Warning.)
- Warnock, Robert L., Warnock, Ohio. Fountain-pen. No. 1,155,693; Oct. 5; Gaz. vol. 219; p. 128.
- Warnock, Wallace S., Evanston, Ill. Printing-press. No. 1,153,587; Sept. 14; Gaz. vol. 218; p. 473.
- Warr, Harold G., assignor to The P. & M. Co., Chicago, Ill. Anticreeper with pin-lock. No. 1,160,116; Nov. 9; Gaz. vol. 220; p. 632.
- Warr, William E. C. (See Page, Luther T., assignor.)
- Warrell, Alexander, assignor to Continental Asbestos Corporation, Worcester, Mass. Lubricant and making same. No. 1,133,204; Mar. 23; Gaz. vol. 212; p. 1311.
- Warrell, Alexander, St. John, New Brunswick, Canada, assignor to Continental Asbestos Corporation, Worcester, Mass. Asbestos packing. No. 1,143,153; June 15; Gaz. vol. 215; p. 800.

Alphabetical list of patentees—Continued.

- Warren, Arthur R., Oak Park, assignor to Universal Printing Appliances Company, Chicago, Ill. Electrotpe form and plate. No. 1,147,130; July 20; Gaz. vol. 216; p. 794.
- Warren, Arthur R., Oak Park, and A. F. Bals, Zion City, assignors to Universal Printing Appliances Company, Chicago, Ill. Printer's catch or registering means. No. 1,137,816; May 4; Gaz. vol. 214; p. 33.
- Warren, Carleton. (See Carpenter, Hibbard, and Warren.)
- Warren, Charles, assignor of two-thirds to Glover Brothers (Witham) Limited, Witham, England. Variable-speed-transmission device. No. 1,126,322; Jan. 26; Gaz. vol. 210; p. 1218.
- Warren, Charles C., *et al.* (See Thrasher, John W., assignor.)
- Warren Clock Company. (See Warren, Henry E., assignor.)
- Warren & Co., Firm of S. D. (See Craigie, Hugh A., assignor.)
- Warren & Company, S. D. (See Green, Arthur B., assignor.)
- Warren, Edgar F. (See Haberl and Warren.)
- Warren, Edward H., Rentiesville, assignor of one-half to A. J. and J. H. Carlow, Checotah, Okla. Train-pipe coupling. No. 1,162,117; Nov. 30; Gaz. vol. 220; p. 1484.
- Warren, Emmet T., Dyersville, Iowa. Fence-post. No. 1,153,983; Sept. 21; Gaz. vol. 218; p. 644.
- Warren Featherbone Co., The. (See Holdred, Frank R., assignor.)
- Warren Featherbone Company, The. (See Johnston, James G., assignor.)
- Warren, Frank D., Salt Lake City, Utah. Wardrobe-suitcase. No. 1,132,536; Mar. 16; Gaz. vol. 212; p. 1016.
- Warren, Frank H., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Inseam shoe-sewing machine. No. 1,154,554; Sept. 21; Gaz. vol. 218; p. 839.
- Warren, George. (See Clark and Warren.)
- Warren, George C., Newton, Mass. Paving composition and making it. No. 1,164,041; Dec. 14; Gaz. vol. 221; p. 503.
- Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Steam-generator. No. 1,152,579; Sept. 7; Gaz. vol. 218; p. 74.
- Warren, George T., Sr., Charleston, S. C. Ladder. No. 1,154,147; Sept. 21; Gaz. vol. 218; p. 700.
- Warren, Henry E., Ashland, Mass. Clock mechanism. No. 1,160,346; Nov. 16; Gaz. vol. 220; p. 766.
- Warren, Henry E., Ashland, Mass., assignor to Warren Clock Company, Portland, Me. Electric apparatus for driving clocks or similar mechanism. No. 1,144,973; June 29; Gaz. vol. 215; p. 1483.
- Warren, Henry E., assignor to Mac-it Parts Company, Lancaster, Pa. Method of and apparatus for generating holes in metal. No. 1,148,065; July 27; Gaz. vol. 216; p. 1149.
- Warren, Henry E., assignor to The Lombard Governor Company, Ashland, Mass. Mechanism for measuring and integrating the amount of flow of water through turbine-gates. No. 1,156,042; Oct. 5; Gaz. vol. 219; p. 249.
- Warren, Henry E., assignor to The Lombard Governor Company, Ashland, Mass. Automatic time lighting mechanism. No. 1,158,397; Oct. 26; Gaz. vol. 219; p. 1193.
- Warren, James C., Emporia, Va. Ice-chute. No. 1,153,658; Sept. 14; Gaz. vol. 218; p. 496.
- Warren, John E., Greenfield, assignor of one-half to J. H. Fassett, Nashua, N. H. Painter's hook. No. 1,152,677; Sept. 7; Gaz. vol. 218; p. 110.
- Warren, John E., deceased; J. A. Warren, administrator, Westbrook, Me. Beating-engine. No. 1,160,964; Nov. 16; Gaz. vol. 220; p. 986.
- Warren, Joseph A., administrator. (See Warren, John E.)
- Warren, Joseph A., Sumter, S. C., assignor, by mesne assignments, to Splittorf Electrical Company, Newark, N. J. Igniter for internal-combustion engines. No. 1,161,555; Nov. 23; Gaz. vol. 220; p. 1241.
- Warren, Logan. (See Peters and Warren.)
- Warren, Peter R., Boston, Mass. Display-holder. No. 1,136,453; Apr. 20; Gaz. vol. 213; p. 923.
- Warren, Peter R., Boston, Mass. Folding box. No. 1,136,454; Apr. 20; Gaz. vol. 213; p. 923.
- Warren, Raymon T., Seymour, Tex. Heading-knife. No. 1,147,665; July 20; Gaz. vol. 216; p. 982.
- Warren, Robert M., assignor to Sumter Electrical Company, Sumter, S. C. Armature for electrical machines. No. 1,136,907; Apr. 20; Gaz. vol. 213; p. 1083.
- Warren Steam Pump Company. (See Gage, Burt O., assignor.)
- Warren, Thomas E., Ticonderoga, N. Y. Doctor for calendering-machines. No. 1,144,802; June 29; Gaz. vol. 215; p. 1426.
- Warren Webster & Company. (See Braemer and Bloom, assignors.)
- Warren Webster & Company. (See Kimball, Dwight D., assignor.)
- Warren Webster & Company. (See Miller, Max P., assignor.)
- Warren Webster & Company. (See Noll, Jacob M., assignor.)
- Warren Webster & Company. (See Noll and Miller, assignors.)
- Warren Webster & Company. (See Osbourn, Millard P., assignor.)
- Warren Webster & Company. (See Fitts and Hale, assignors.)
- Warren, William M., assignor of one-half to S. L. Carpenter, Corinth, Tex. Peanut-harvester. No. 1,145,282; July 6; Gaz. vol. 216; p. 106.
- Warren, William R. (See Brown, Herman E., assignor.)
- Warren, William R., New York, N. Y. Making hydraulic cement. No. 1,123,964; Jan. 5; Gaz. vol. 210; p. 260.
- Warren, William S., Cambridge, Mass. Window. No. 1,139,244; May 11; Gaz. vol. 214; p. 573.
- Warring, Franklin B., assignor to Bean Spray Pump Co., San Jose, Cal. Deep-well pump. No. 1,139,607; May 18; Gaz. vol. 214; p. 736.
- Warsen, August W., New York, N. Y. Crusher. No. 1,130,864; Mar. 9; Gaz. vol. 212; p. 390.
- Warsen, August W., New York, N. Y. Automatic driving load control. No. 1,145,724; July 6; Gaz. vol. 216; p. 262.
- Warsen, August W., New York, N. Y. Crusher. No. 1,148,345; July 27; Gaz. vol. 216; p. 1250.
- Warstler, Levi, and P. F. Lolchot, assignors to The Louisville Machine Company, Louisville, Ohio. Brick-forming die. No. 1,140,640; May 25; Gaz. vol. 214; p. 1135.
- Wartemann, Oskar, New York, N. Y. Building dams. No. 1,133,768; Mar. 30; Gaz. vol. 212; p. 1547.
- Warth, Charles H., East St. Louis, Ill. Making liquid fuel. No. 1,131,880; Mar. 16; Gaz. vol. 212; p. 779.
- Wartzack, August, Tonganoxie, Kans. Metal hay-rack. No. 1,127,130; Feb. 2; Gaz. vol. 211; p. 165.
- Warwick, George T., assignor to International Machine and Screw Company, Springfield, Mass. Thread-forming mechanism. No. 1,130,226; Mar. 2; Gaz. vol. 212; p. 135.
- Warwick, George T., assignor to International Machine and Screw Company, Springfield, Mass. Metal-working machine. No. 1,163,961; Dec. 14; Gaz. vol. 221; p. 475.
- Waser, Carl R., assignor to The Precision Thermometer and Instrument Company, Philadelphia, Pa. Sphygmomanometer. No. 1,164,895; Dec. 21; Gaz. vol. 221; p. 840.
- Waser, Carl R., assignor to Precision Thermometer & Instrument Company, Philadelphia, Pa. Sphygmomanometer. No. 1,164,896; Dec. 21; Gaz. vol. 221; p. 841.
- Washburn, Charles H., assignor, by mesne assignments, to New Process Oil Company, St. Louis, Mo. Treating hydrocarbon oils. No. 1,138,266; May 4; Gaz. vol. 214; p. 190.
- Washburn, Claude F., assignor of one-half to H. Gee, Grand Rapids, Wis. Traction-wheel. No. 1,144,574; June 29; Gaz. vol. 215; p. 1346.
- Washburn-Crosby Company. (See Langseth, Gust, assignor.)
- Washburn, Frank S. (See Landis, Walter S., assignor.)
- Washburn, Frank S., Nashville, Tenn. Fertilizer containing lime nitrogen and tankage material. No. 1,135,639; Apr. 13; Gaz. vol. 213; p. 595.
- Washburn, Frank S., Nashville, Tenn. Making mono-ammonium phosphate. No. 1,142,068; June 8; Gaz. vol. 215; p. 382.
- Washburn, Frank S., Nashville, Tenn. Recovering high-grade phosphoric acid. No. 1,149,233; Aug. 10; Gaz. vol. 217; p. 368.
- Washburn, Frank S., Nashville, Tenn. Apparatus for making ammonium phosphate. No. 1,151,074; Aug. 24; Gaz. vol. 217; p. 1137.
- Washburn, Frank S., Nashville, Tenn. Fertilizer material and producing the same. No. 1,151,633; Aug. 31; Gaz. vol. 217; p. 1374.
- Washburn, George S., Belle Plaine, Iowa. Rack for vehicles. No. 1,125,610; Jan. 19; Gaz. vol. 210; p. 928.
- Washburn, Howard L., assignor to American Telegraphone Company, Springfield, Mass. Telegraphone. No. 1,155,776; Oct. 5; Gaz. vol. 219; p. 156.
- Washburn, Reginald, assignor to The Wire Goods Company, Worcester, Mass. Egg-beater. No. 1,134,170; Apr. 6; Gaz. vol. 213; p. 31.
- Washburn, Reginald, and A. W. Martin, assignors to Wire Goods Company, Worcester, Mass. Holder for strainers and the like. No. 1,149,878; Aug. 10; Gaz. vol. 217; p. 601.
- Washburne, Alva C., *et al.* (See Hammond, Grant, assignor.)
- Washburne, James V., Syracuse, N. Y. Ink-well. No. 1,134,429; Apr. 6; Gaz. vol. 213; p. 126.
- Washburne, James V., Fulton, N. Y. Window-shade roller. No. 1,149,879; Aug. 10; Gaz. vol. 217; p. 601.
- Washburne, James V., Fulton, N. Y. Office-desk utensil. No. 1,156,194; Oct. 12; Gaz. vol. 219; p. 327.
- Washington, Earnest, and H. Anderson, Faribault, Minn. Wrench. No. 1,152,064; Aug. 31; Gaz. vol. 217; p. 1524.
- Washington Iron Works Company. (See Waddell, Robert, assignor.)
- Wasielewski, Stephen, *et al.* (See Piontkowski, John, assignor.)

- Wasik, Jacob, West Hammond, Ill. Pan-lifter. No. 1,140,781; May 25; Gaz. vol. 214; p. 1181.
- Waskewice, John, Waterbury, Conn. Airship. No. 1,161,428; Nov. 23; Gaz. vol. 220; p. 1197.
- Waskin, Peter, Somerville, N. J. Combined rain-coat, slicker-suit, and life-preserver. No. 1,130,778; Mar. 9; Gaz. vol. 212; p. 361.
- Wassemiller, Fredrick J., Monument, Kans. Stirrup. No. 1,162,324; Nov. 30; Gaz. vol. 220; p. 1555.
- Wasser, Lewis C., Marion, Ohio. Band-saw-filing apparatus. No. 1,159,442; Nov. 9; Gaz. vol. 220; p. 392.
- Wasserman, David, Jersey City, N. J. Combined crib and settee. No. 1,164,243; Dec. 14; Gaz. vol. 221; p. 571.
- Wassmer, Eugene. (See Wallace and Wassmer.)
- Wasson, Edgar A., and F. M. Cooley, Beaumont, Tex. Oil-tank. No. 1,128,202; Feb. 9; Gaz. vol. 211; p. 579.
- Wasson Engineering & Supply Co. (See Lang, Charles E., assignor.)
- Wasson, Frank A., Milwaukee, Wis. Trolley-retriever. No. 1,143,002; June 15; Gaz. vol. 215; p. 748.
- Wassung, Walter B. (See Lasher and Wassung.)
- Watchpocket, John. (See Keith, Edward B., assignor.)
- Waterall, William L., deceased; J. C. Jones, administrator, Philadelphia, Pa. Tag-securing means. No. 1,160,347; Nov. 16; Gaz. vol. 220; p. 766.
- Waterbury Brass Goods Corporation, The. (See Babcock, Wilbert L., assignor.)
- Waterbury Buckle Co. (See Buchanan and Maltby, assignors.)
- Waterbury Clock Co., The. (See Wehinger, Frederick, assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox and Byam, assignors.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox and Candee, assignors.)
- Waterbury, James L., Minneapolis, Minn. Ventilating apparatus. No. 1,146,980; July 20; Gaz. vol. 216; p. 743.
- Waterbury Manufacturing Co. (See Recker, Adolph C., assignor.)
- Waterbury Manufacturing Company. (See Kenney, Andrew E., assignor.) (Reissue.)
- Waterbury Manufacturing Company. (See Sperry, Henry T., assignor.)
- Waterbury Mfg. Co. (See Burt, William H., assignor.)
- Waterbury Mfg. Co. (See Goddard, Arthur S., assignor.)
- Waterbury Mfg. Co. (See Henger, Edwin W., assignor.)
- Waterbury Mfg. Co. (See Recker, Adolph C., assignor.)
- Waterbury Tool Company, The. (See Janney, Reynolds, assignor.)
- Waterhouse, Edward C. (See Miller and Waterhouse.)
- Waterloo Cement Machinery Corporation. (See Brayton, Charles W., assignor.)
- Waterloo Cement Machinery Corporation. (See Bruns, John M., assignor.)
- Waterloo Cement Machinery Corporation. (See Galyean, James L., assignor.)
- Waterloo Gasoline Engine Company, The. (See Parkhurst and Witry, assignors.)
- Waterman, Bradford B., East Bridgewater, Mass., assignor to The American Shoe Finding Company. Machine for fastening metal stiffeners to shoe-shanks. No. 1,140,423; May 25; Gaz. vol. 214; p. 1058.
- Waterman, Bradford B., East Bridgewater, Mass., assignor to The American Shoe Finding Company. Device for feeding tacks, nails, and the like. No. 1,143,561; June 15; Gaz. vol. 215; p. 943.
- Waterman, Frank W., Baltimore, Md. Machine for making plates from pulp. No. 1,139,002; May 11; Gaz. vol. 214; p. 489.
- Waterman, Henry A., L. C. Bradley, and W. K. Andrew, Milwaukee, Wis., assignors, by mesne assignments, to International Harvester Corporation. Power-transmission gearing. No. 1,157,133; Oct. 19; Gaz. vol. 219; p. 686.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Plow. No. 1,129,926; Mar. 2; Gaz. vol. 212; p. 32.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Beam connection. No. 1,129,927; Mar. 2; Gaz. vol. 212; p. 33.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Harrow. No. 1,137,934; May 4; Gaz. vol. 214; p. 73.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Two-row cultivator. No. 1,137,935; May 4; Gaz. vol. 214; p. 74.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Stalk-cutter. No. 1,150,236; Aug. 17; Gaz. vol. 217; p. 791.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Corn-planter driving mechanism. No. 1,159,443; Nov. 9; Gaz. vol. 220; p. 392.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Hay rake and tedder. No. 1,159,444; Nov. 9; Gaz. vol. 220; p. 393.
- Waterman, William J., Sanborn, Minn. Land-marker for planters. No. 1,165,923; Dec. 28; Gaz. vol. 221; p. 1238.
- Waters, Alfred C. (See Strickland, Silas A., assignor.)
- Waters, Clifton, Brookfield, Mo. Dirigible-headlight mechanism. No. 1,130,357; Mar. 2; Gaz. vol. 212; p. 179.
- Waters, Edmund J., Asbury Park, N. J. Billiard-cue attachment. No. 1,152,866; Sept. 7; Gaz. vol. 218; p. 179.
- Waters, Eric G., Forest Row, England. Electric protective system. No. 1,152,362; Aug. 31; Gaz. vol. 217; p. 1628.
- Waters, Harry F., Colorado Springs, Colo. Electric power plant. No. 1,125,783; Jan. 19; Gaz. vol. 210; p. 992.
- Waters, John K. (See Fountain, Waters, and Winchester.)
- Waters, Samson, Los Angeles, Cal. Furniture-polish. No. 1,136,742; Apr. 20; Gaz. vol. 213; p. 1025.
- Waters, Samuel B., assignor to National Radiator Company, Johnstown, Pa. Damper and draft-regulator for furnaces. No. 1,163,385; Dec. 7; Gaz. vol. 221; p. 227.
- Waters, Samuel S., Washington, D. C., assignor to Aeolian Company, New York, N. Y. Means for synchronously operating musical instruments. No. 1,128,923; Feb. 16; Gaz. vol. 211; p. 880.
- Waters, William L., Milwaukee, Wis. Electric hot-water heating system. No. 1,144,954; June 29; Gaz. vol. 215; p. 1476.
- Waterson, Henry. (See Lewin, Moritz, assignor.)
- Watertite Drain & Scupper Co. (See Covert, Stanley S., assignor.)
- Watkins, Alfred, London, England. Dredger. No. 1,134,708; Apr. 6; Gaz. vol. 213; p. 229.
- Watkins, Alfred, Hereford, England. Thermometer for bakers. No. 1,153,740; Sept. 14; Gaz. vol. 218; p. 525.
- Watkins, Arthur G., assignor of one-half to C. L. Renz, Jr., and one-half to W. N. Jarvis, Philadelphia, Pa. Box. No. 1,134,569; Apr. 6; Gaz. vol. 213; p. 178.
- Watkins, Basil K. (See Harvey and Watkins.)
- Watkins, Benjamin G., Nehawka, Nebr., W. P. and T. Watkins, Elizabethtown, Ky. Post-hole auger. No. 1,142,646; June 8; Gaz. vol. 215; p. 584.
- Watkins, Charles D., New York, N. Y. Shoe-rubbing device. No. 1,127,131; Feb. 2; Gaz. vol. 211; p. 165.
- Watkins, Charles D., New York, N. Y. Paste-applying device. No. 1,129,256; Feb. 23; Gaz. vol. 211; p. 1032.
- Watkins, Charles D., New York, N. Y. Shoe-polisher. No. 1,129,257; Feb. 23; Gaz. vol. 211; p. 1032.
- Watkins, Charles L., Rye, N. Y. War game. No. 1,160,348; Nov. 16; Gaz. vol. 220; p. 766.
- Watkins and Fisher. (See Watkins, Orla H., assignor.)
- Watkins, Fred W. (See Merritt and Watkins.)
- Watkins, James M., Buffalo, N. Y. Line-testing switch. No. 1,131,098; Mar. 9; Gaz. vol. 212; p. 470.
- Watkins, John W. (See Brogden and Watkins.)
- Watkins, Milton W., De Kalb, Ill. Wire-reel. No. 1,156,569; Oct. 12; Gaz. vol. 219; p. 459.
- Watkins, Orla H., Clinton, Iowa. Attachment for wringers. No. 1,134,709; Apr. 6; Gaz. vol. 213; p. 229.
- Watkins, Orla H., Clinton, Iowa, assignor to Watkins and Fisher, Kenosha, Wis. Washing-machine bench. No. 1,126,597; Jan. 26; Gaz. vol. 210; p. 1319.
- Watkins, Orla H., Clinton, Iowa, assignor to Watkins and Fisher, Kenosha, Wis. Gearing for washing-machines. No. 1,157,474; Oct. 19; Gaz. vol. 219; p. 808.
- Watkins, Owen C., assignor of one-third to T. E. Reed, Middletown, Ohio. Coaster-brake. No. 1,139,090; May 11; Gaz. vol. 214; p. 520.
- Watkins-Pitchford, Herbert, Weybridge, England. Preparation of meat products. No. 1,165,924; Dec. 28; Gaz. vol. 221; p. 1238.
- Watkins-Pitchford, Herbert, Weybridge, England. Nutritive preparation. No. 1,165,925; Dec. 28; Gaz. vol. 221; p. 1238.
- Watkins, Robert L. (See Head, Robert, assignor.)
- Watkins, Robert L., New York, N. Y. Photomicrographic camera. No. 1,161,556; Nov. 23; Gaz. vol. 220; p. 1241.
- Watkins, Taylor. (See Watkins, Benjamin G., W. P., and T.)
- Watkins, Walter P. (See Watkins, Benjamin G., W. P., and T.)
- Watkins, William C., New Haven, Conn. Arctic-buckle. No. 1,148,132; July 27; Gaz. vol. 216; p. 1175.
- Watkins, William R., Woodlawn, Ala. Drinking-cup. No. 1,155,178; Sept. 28; Gaz. vol. 218; p. 1084.
- Watremez, Emile T. J., Brussels, Belgium. Treatment of textile fibers for bleaching purposes. No. 1,133,769; Mar. 30; Gaz. vol. 212; p. 1548.
- Watres, Lewis S., assignor of forty one-hundredths to C. D. Simpson and twenty one-hundredths to H. H. Brady, Scranton, Pa. Means for determining the weight of fuel carried by a locomotive-tender. No. 1,136,633; Apr. 20; Gaz. vol. 213; p. 985.
- Watres, Lewis S., assignor of forty one-hundredths to C. D. Simpson and twenty one-hundredths to H. H. Brady, Scranton, Pa. Means for determining the weight of fuel carried by a locomotive-tender. No. 1,136,634; Apr. 20; Gaz. vol. 213; p. 986.
- Watrous, Clifford M., assignor to The Gong Bell Manufacturing Company, East Hampton, Conn. Toy. No. 1,130,865; Mar. 9; Gaz. vol. 212; p. 391.
- Watrous, Earl G., Chicago, Ill. Valve. No. 1,143,669; June 22; Gaz. vol. 215; p. 1005.

Alphabetical list of patentees—Continued.

- Watrous, Earl G., Chicago, Ill. Water-closet bowl. No. 1,159,445; Nov. 9; Gaz. vol. 220; p. 393.
- Watrous, Earl G., Chicago, Ill. Lavatory. No. 1,162,834; Dec. 7; Gaz. vol. 221; p. 36.
- Watrous, Earl G., Chicago, Ill. Flushing-valve. No. 1,162,957; Dec. 7; Gaz. vol. 221; p. 77.
- Watrous, Earl G., assignor to Federal-Huber Co., Chicago, Ill. Water-closet. No. 1,130,046; Mar. 2; Gaz. vol. 212; p. 71.
- Watrous, Edward L., Des Moines, Iowa, assignor to D. B. Gann, Chicago, Ill. Dolly-post for washing-machines. No. 1,134,302; Apr. 6; Gaz. vol. 213; p. 80.
- Watrous, Martin D., Ansonia, Conn. Machine for applying tips to garment-stays. No. 1,139,608; May 18; Gaz. vol. 214; p. 736.
- Watson, Alexander, Beaumont, assignor of one-half to W. G. Mitchell, Malden, Mass. Pneumatic-despatch-tube system. No. 1,159,627; Nov. 9; Gaz. vol. 220; p. 458.
- Watson, Alexander J., Plainfield, N. J. Grip for bowling-balls and the like. No. 1,139,827; May 18; Gaz. vol. 214; p. 814.
- Watson, Bazel R., assignor of one-half to H. C. Nelson, Everett, Wash. Spike. No. 1,163,962; Dec. 14; Gaz. vol. 221; p. 475.
- Watson, Charles, Chicago, Ill. Oscillating lawn-sprinkler. No. 1,155,115; Sept. 28; Gaz. vol. 218; p. 1061.
- Watson, Chester A., assignor of one-tenth to H. S. Havens, Crews, Tex. Automobile-wheel. No. 1,128,924; Feb. 16; Gaz. vol. 211; p. 880.
- Watson, Clyde D., Hartford City, Ind. Receiving and delivering apparatus. No. 1,135,230; Apr. 13; Gaz. vol. 213; p. 450.
- Watson, David S., Canastota, N. Y. Heat-controlled damper for heater-pipes. No. 1,125,416; Jan. 19; Gaz. vol. 210; p. 862.
- Watson, David S., Canastota, N. Y. Fire-shield. (Reissue.) No. 14,028; Dec. 7; Gaz. vol. 221; p. 316.
- Watson, Edville A., Northwood, N. H. Propelling mechanism. No. 1,160,021; Nov. 9; Gaz. vol. 220; p. 599.
- Watson, Elmer E., Hamilton, Ohio. Interchangeable-key locks. No. 1,136,067; Apr. 20; Gaz. vol. 213; p. 784.
- Watson, Elmer E., Hamilton, Ohio. Interchangeable-key lock. No. 1,137,436; Apr. 27; Gaz. vol. 213; p. 1313.
- Watson, Elmer G., College Place, Wash. Collapsible concrete-form. No. 1,130,947; Mar. 9; Gaz. vol. 212; p. 419.
- Watson, Firdia, Cass, Ark. Wagon-brake. No. 1,155,453; Oct. 5; Gaz. vol. 219; p. 45.
- Watson, Harold L., Newtown, Pa., assignor, by mesne assignments, to Newtown Incubator Corporation, Harrisonburg, Va. Incubator. No. 1,146,909; July 20; Gaz. vol. 216; p. 716.
- Watson, Harry C., Lancaster, Ohio. Glass-glazing machine. No. 1,135,640; Apr. 13; Gaz. vol. 213; p. 595.
- Watson, Harry C., assignor to The Clafin Engineering Company, Lancaster, Ohio. Pulp-beater. No. 1,129,824; Feb. 23; Gaz. vol. 211; p. 1225.
- Watson, Hugh, and C. M. Whritenour, Paterson, N. J. Beaming attachment for warping and beaming machines. No. 1,153,528; Sept. 14; Gaz. vol. 218; p. 452.
- Watson, James A., Washington, D. C., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,136,569; Apr. 20; Gaz. vol. 213; p. 964.
- Watson, John D., Appleton, Wis. Seam for Fourdrinier wires. No. 1,143,742; June 22; Gaz. vol. 215; p. 1029.
- Watson, John W., Roseville, Ill. Wire-twisting device. No. 1,125,417; Jan. 19; Gaz. vol. 210; p. 862.
- Watson, Joseph R., Los Angeles, Cal. Control for elevator mechanism and the like. No. 1,158,344; Oct. 26; Gaz. vol. 219; p. 1173.
- Watson, Lewis C., and E. F. Boyer, Kansas City, Mo. Controlling means for ignition systems. No. 1,158,876; Nov. 2; Gaz. vol. 220; p. 164.
- Watson, Richard M., Detroit, Mich. Loose-leaf binder. No. 1,163,722; Dec. 14; Gaz. vol. 221; p. 391.
- Watson, Robert C., Washington, D. C. Engineer's leveling-rod. No. 1,165,820; Dec. 28; Gaz. vol. 221; p. 1203.
- Watson, Robert E., Alva, Fla. Insecticide. No. 1,156,954; Oct. 19; Gaz. vol. 219; p. 623.
- Watson Solar Window Company. (See Watson and Iman, assignors.)
- Watson, William, Benton, Ill. Rake-cleaner. No. 1,156,729; Oct. 12; Gaz. vol. 219; p. 515.
- Watson, William A., Malden, Mass. Single-valve player mechanism. No. 1,142,863; June 15; Gaz. vol. 215; p. 698.
- Watson, William D., and O. H. Iman, Chicago, Ill., assignors, by mesne assignments, to Watson Solar Window Company, Carmel, N. Y. Metal-frame window. No. 1,132,233; Mar. 16; Gaz. vol. 212; p. 908.
- Watson, William L., McKenzie, N. D. Control mechanism. No. 1,130,227; Mar. 2; Gaz. vol. 212; p. 134.
- Watson, William U., Chicago, Ill. Pump. No. 1,166,098; Dec. 28; Gaz. vol. 221; p. 1299.
- Watson, William W., Jamestown, N. Y. Knockdown roller-screen. No. 1,135,563; Apr. 13; Gaz. vol. 213; p. 567.
- Watson, William W., Jamestown, N. Y. Suspension for filing-drawers. No. 1,144,670; June 29; Gaz. vol. 215; p. 1379.
- Watson, Winfield S., Butler, Pa. Suspension-wheel. No. 1,162,670; Nov. 30; Gaz. vol. 220; p. 1668.
- Watt, Alexander G., administrator. (See Hourigan, John J.)
- Watt, Andrew P., Manchester, N. H. Knitting-machine needle. No. 1,127,132; Feb. 2; Gaz. vol. 211; p. 165.
- Watt, Delton C., and F. A. Grearson, Barre, Vt. Vehicle top raising and lowering mechanism. No. 1,144,925; June 29; Gaz. vol. 215; p. 1466.
- Watt, Delton C., and F. A. Grearson, Barre, Vt. Vehicle top-operating mechanism. No. 1,154,463; Sept. 21; Gaz. vol. 218; p. 809.
- Watt, Elihu D., La Grange, Ill., assignor to Raymond Concrete Pile Company, New York, N. Y. Apparatus for erecting composite piles. No. 1,135,086; Apr. 13; Gaz. vol. 213; p. 403.
- Watt, James D., Duluth, Minn. Sawing-machine. No. 1,123,442; Jan. 5; Gaz. vol. 210; p. 84.
- Watters, Albert L. (See Bumbaugh, George L., assignor.)
- Watters, Allie W. (See Lanham, James H., assignor.)
- Watters, John H., Oxford, Ala. Track-sander. No. 1,127,555; Feb. 9; Gaz. vol. 211; p. 352.
- Watters, John H., Anniston, Ala. Tank valve and strainer. No. 1,151,634; Aug. 31; Gaz. vol. 217; p. 1375.
- Watters, William. (See Bradley, John S., assignor.)
- Watterston, Charles, Birmingham, Ala. Shaft-lock. No. 1,150,406; Aug. 17; Gaz. vol. 217; p. 850.
- Wattie, William, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Assembling-machine. No. 1,132,136; Mar. 16; Gaz. vol. 212; p. 872.
- Wattmann, John, Treptow, near Berlin, Germany. Making welded rail-joints. No. 1,132,052; Mar. 16; Gaz. vol. 212; p. 841.
- Watts, Ben, assignor of one-third to R. A. Galloway, Pasco, and one-third to G. H. De Pue, Seattle, Wash. Automobile-lock. No. 1,141,223; June 1; Gaz. vol. 215; p. 47.
- Watts, Elmer A., assignor to The Miller Improved Gas Engine Company, Springfield, Ohio. Valve for air-compressors. No. 1,135,476; Apr. 13; Gaz. vol. 213; p. 536.
- Watts, Frank E., assignor to Hupp Motor Car Company, Detroit, Mich. Grease-cup. No. 1,140,549; May 25; Gaz. vol. 214; p. 1105.
- Watts, Frank E., assignor to Hupp Motor Car Company, Detroit, Mich. Propeller-shaft. No. 1,153,984; Sept. 21; Gaz. vol. 218; p. 645.
- Watts, Frank E., assignor to Hupp Motor Car Company, Detroit, Mich. Carbureter. No. 1,159,446; Nov. 9; Gaz. vol. 220; p. 393.
- Watts, Frank E., and D. T. Hastings, assignors to Hupp Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,158,602; Nov. 2; Gaz. vol. 220; p. 69.
- Watts, George S., Marietta, Ga., assignor to Underwood Typewriter Company, New York, N. Y. Type-writer attachment. No. 1,143,871; June 22; Gaz. vol. 215; p. 1073.
- Watts, George W., Hot Springs, Ark. Nut-locking appliance. No. 1,142,647; June 8; Gaz. vol. 215; p. 584.
- Watts, Harry, Fleet, England. Picture-frame. No. 1,157,915; Oct. 26; Gaz. vol. 219; p. 1023.
- Watts, John, Kansas City, Mo. Aeroplane. No. 1,153,659; Sept. 14; Gaz. vol. 218; p. 496.
- Watts, Richard E., assignor of one-half to J. Hobkirk, Stamford, England. Brass wind musical instrument. No. 1,148,417; July 27; Gaz. vol. 216; p. 1274.
- Watts, Rowland H., Concord, assignor of one-half to Richardson Manufacturing Company, Worcester, Mass. Fertilizer-spreader. No. 1,132,053; Mar. 16; Gaz. vol. 212; p. 842.
- Watts, Silas J., Springfield, Mass. Apparatus for flinting paper. No. 1,166,162; Dec. 28; Gaz. vol. 221; p. 1325.
- Watts, Timothy J., South Windham, Conn. Clothes-ironer. No. 1,162,835; Dec. 7; Gaz. vol. 221; p. 37.
- Watts, William, Jackson, Mich. Corn-sheller. No. 1,137,100; Apr. 27; Gaz. vol. 213; p. 1189.
- Watts, William E., Los Angeles, assignor of one-third to F. W. Merrill, Long Beach, and one-third to I. Foulks, Los Angeles, Cal. Bearing for roof-hooks. No. 1,132,411; Mar. 16; Gaz. vol. 212; p. 972.
- Watzl, Ernst J., assignor to National Carbon Company, Cleveland, Ohio. Arc-lamp electrode. No. 1,161,173; Nov. 23; Gaz. vol. 220; p. 1105.
- Waugh, Daniel S., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Motor. No. 1,157,605; Oct. 19; Gaz. vol. 219; p. 849.
- Waugh, Daniel S., assignor, by mesne assignments, to The Denver Rock Drill Manufacturing Company, Denver, Colo. Fluid-actuated motor. No. 1,159,303; Nov. 2; Gaz. vol. 220; p. 311.
- Waugh Draft Gear Company. (See Forsyth, George H., assignor.)
- Waugh Draft Gear Company. (See Gallagher, Frederick S., assignor.)
- Waugh, Edward H., Seattle, Wash. Cutter-head. No. 1,137,937; May 4; Gaz. vol. 214; p. 75.
- Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Weight-testing machine. No. 1,137,936; May 4; Gaz. vol. 214; p. 74.
- Waugh, Edward H., assignor to J. W. Winingham, Seattle, Wash. Cutter-head. No. 1,138,816; May 11; Gaz. vol. 214; p. 423.

Alphabetical list of patentees—Continued.

- Waugh, James A., Louisiana, Mo. Combined letter and parcel-post mail-box. No. 1,130,047; Mar. 2; Gaz. vol. 212; p. 72.
- Waugh, James M., Chicago, Ill. Draft-gear. No. 1,123,443; Jan. 5; Gaz. vol. 210; p. 85.
- Waugh, James M., Chicago, Ill. Draft-gear. No. 1,143,154; June 15; Gaz. vol. 215; p. 801.
- Waugh, Samuel. (See Chapman, Robert E., assignor.)
- Waugh, William P., Montclair, N. J. Glazing construction. No. 1,156,335; Oct. 12; Gaz. vol. 219; p. 374.
- Wawrziniok, Otto C. E. P., Dresden, Germany. Coating woven fabrics, paper, and the like. No. 1,141,224; June 1; Gaz. vol. 215; p. 48.
- Waxbom, Carl J. E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining-machine truck. No. 1,136,301; Apr. 20; Gaz. vol. 213; p. 868.
- Waxbom, Carl J. E., Westerville, Ohio, assignor to The Jeffrey Manufacturing Company. Gathering-locomotive. No. 1,150,911; Aug. 24; Gaz. vol. 217; p. 1082.
- Way Co., The. (See Blumberg, Robert L., assignor.)
- Way, David R., Fairfield, Iowa. Acetylene-gas generator. No. 1,150,983; Aug. 24; Gaz. vol. 217; p. 1107.
- Way, David R., assignor of one-half to E. M. Krum, Fairfield, Iowa, 1. D. Way and E. Berry, Chicago, Ill. Corn-harvester. No. 1,131,022; Mar. 9; Gaz. vol. 212; p. 445.
- Way, Ira D., *et al.* (See Way, David R., assignor.)
- Way, Walter M., Tacoma, Wash. Collapsible egg-crate. No. 1,127,328; Feb. 2; Gaz. vol. 211; p. 231.
- Way, Walter M., Tacoma, Wash. Extension-crate. No. 1,135,231; Apr. 13; Gaz. vol. 213; p. 450.
- Way, Walter M., Tacoma, Wash. Separable butter-case. No. 1,146,219; July 13; Gaz. vol. 216; p. 456.
- Wayditch, Aloys, New York, N. Y. Clothes-drier. No. 1,154,080; Sept. 21; Gaz. vol. 218; p. 678.
- Wayland, Francis, Salem, Mass. Hide and leather working machine. No. 1,131,756; Mar. 16; Gaz. vol. 212; p. 733.
- Wayland, Harry C., New York, N. Y. Combined throat and smoke-chamber for fireplaces. No. 1,161,914; Nov. 30; Gaz. vol. 220; p. 1411.
- Wayman, Garey T. (See Wayman, Thomas M. and G. T.)
- Wayman, Thomas M., and G. T., Pittsburgh, Pa. Sparking-plug. No. 1,123,631; Jan. 5; Gaz. vol. 210; p. 149.
- Wayne Manufacturing Company. (See Enell, Otto E., assignor.)
- Wayne Manufacturing Company. (See Marth, Charles J., assignor.)
- Wayne Process Company. (See Donnelly, John R., assignor.)
- Wayrich, Alexander, assignor to Underwood Typewriter Company, New York, N. Y. Theatrical appliance. No. 1,154,950; Sept. 28; Gaz. vol. 218; p. 1003.
- Wear, F. E. (See Ferngren, Enoch T., assignor.)
- Wear, Frank. (See Wilcox, James E., assignor.)
- Wear, Frank F., San Francisco, Cal., assignor, by mesne assignments, to Toledo Scale Company, Newark, N. J. Scale. No. 1,162,836; Dec. 7; Gaz. vol. 221; p. 37.
- Wearne, Richard L., Binghamton, N. Y. Washing-machine. No. 1,147,285; July 20; Gaz. vol. 216; p. 847.
- Weatherby, Joseph, assignor to Electric Ore Separator Company, New Cumberland, Pa. Ore-concentrator. No. 1,145,046; July 6; Gaz. vol. 216; p. 26.
- Weatherhead, Allie, *et al.* (See Parrshall, Seth, assignor.)
- Weatherhead, Douglas C., assignor of one-third to M. A. Walton, Salisbury, Md. Plow. No. 1,143,468; June 15; Gaz. vol. 215; p. 912.
- Weatherhead, Edward H., assignor to The Bishop-Babcock-Becker Company, Cleveland, Ohio. Liquid-dispensing device. No. 1,161,557; Nov. 23; Gaz. vol. 220; p. 1242.
- Weatherill, Henry C., Elgin, Ill. Checkrein device. No. 1,128,642; Feb. 16; Gaz. vol. 211; p. 780.
- Weatherley, Stuart, London, England. Boot and shoe fastening. No. 1,142,546; June 8; Gaz. vol. 215; p. 550.
- Weatherley, Stuart, London, England. Pin. No. 1,142,547; June 8; Gaz. vol. 215; p. 550.
- Weatherly, Charles G., San Francisco, Cal. Combined folding door-step and seat for cars. No. 1,140,641; May 25; Gaz. vol. 214; p. 1136.
- Weatherproof Construction Company, The. (See Duffy, Thomas I., assignor.)
- Weathersby, Fred R., Houston, Tex. Drill. No. 1,131,448; Mar. 9; Gaz. vol. 212; p. 591.
- Weathersby, Robert H., and W. B. Clark, Mammoth, Ariz. Belt-guiding device. No. 1,135,744; Apr. 13; Gaz. vol. 213; p. 632.
- Weatherwax, Leon J., De Queen, Ark. Vehicle steering mechanism. No. 1,141,290; June 1; Gaz. vol. 215; p. 72.
- Weaver, Albert T., Joliet, and J. Hauk, jr., Waukegan, Ill., assignors to The American Steel & Wire Company of New Jersey, Hoboken, N. J. Bale-tie. No. 1,165,730; Dec. 28; Gaz. vol. 221; p. 1173.
- Weaver, Alton R., Alameda, Cal. Automatic gas-cock. No. 1,134,932; Apr. 6; Gaz. vol. 213; p. 302.
- Weaver, Charles E., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Making handle-bars for bicycles. No. 1,151,914; Aug. 31; Gaz. vol. 217; p. 1472.
- Weaver and Company, F. W. (See Moulton, William, assignor.)
- Weaver, David E., Waynesboro Va. Dehorner. No. 1,141,025; May 25; Gaz. vol. 214; p. 1263.
- Weaver, Edgar J., Westerville, Ohio. Automobile safety-brace. No. 1,149,006; Aug. 3; Gaz. vol. 217; p. 185.
- Weaver, Edgar J., Westerville, Ohio. Tool-handle fastener. No. 1,158,345; Oct. 26; Gaz. vol. 219; p. 1173.
- Weaver, Frank M., *et al.* (See Moore, Chauncey H., assignor.)
- Weaver, Frank R., Southmont, Upper Yoder township, Cambria county, Pa., assignor to Davis Brake Beam Company. Brake-beam-assembling machine. No. 1,144,974; June 29; Gaz. vol. 215; p. 1484.
- Weaver, Herbert H., Southmont, Lower Yoder township, Cambria county, Pa. Incinerator. No. 1,131,188; Mar. 9; Gaz. vol. 212; p. 501.
- Weaver, Ira A., assignor to The Weaver Mfg. Company, Springfield, Ill. Automobile-ambulance. No. 1,125,227; Jan. 19; Gaz. vol. 210; p. 793.
- Weaver, Ira A., assignor to Racine Sattley Company, Springfield, Ill. Detachable plowshare. No. 1,137,817; May 4; Gaz. vol. 214; p. 33.
- Weaver, Ira A., Springfield, Ill., assignor, by mesne assignments, to International Harvester Corporation. Corn-planter. No. 1,144,625; June 29; Gaz. vol. 215; p. 1364.
- Weaver, James H., and A. D. Welker, assignors to The Ohio Match Company, Wadsworth, Ohio. Machine for boxing matches. No. 1,147,058; July 20; Gaz. vol. 216; p. 770.
- Weaver, John F., Lancaster, Pa. Composition of matter to be used for feeding live stock. No. 1,135,417; Apr. 13; Gaz. vol. 213; p. 516.
- Weaver, Joseph B. (See Burlingham, William, assignor.)
- Weaver, Joseph B., Newport News, Va. Marking, punching, and assembling shroud-bands for turbine-blades. No. 1,158,755; Nov. 2; Gaz. vol. 220; p. 121.
- Weaver, Joseph C., Zanesville, Ind. Side rake attachment for hay-loaders. No. 1,134,171; Apr. 6; Gaz. vol. 213; p. 32.
- Weaver, Marvin S., Johnson City, Tenn. Fiber-trimming apparatus. No. 1,139,609; May 18; Gaz. vol. 214; p. 737.
- Weaver Mfg. Company, The. (See Weaver, Ira A., assignor.)
- Weaver, Robert B., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Machine for cutting spiral teeth on conical gear-blanks. No. 1,133,516; Mar. 30; Gaz. vol. 212; p. 1457.
- Weaver, Robert B., assignor to Timken-Detroit Axle Company, Detroit, Mich. Gearing. No. 1,136,069; Apr. 20; Gaz. vol. 213; p. 785.
- Weaver, Robert R., Columbus, Ohio. Uncoupling device for car-couplings. No. 1,136,068; Apr. 20; Gaz. vol. 213; p. 785.
- Weaver, Robert R., assignor to The Ralston Steel Car Company, Columbus, Ohio. Drop-door-operating mechanism for dumping-cars. No. 1,124,188; Jan. 5; Gaz. vol. 210; p. 337.
- Weaver, Robert R., assignor to The Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 1,124,980; Jan. 12; Gaz. vol. 210; p. 669.
- Weaver, Ross. (See De Vallant and Weaver.)
- Weaver, Truman B. (See Boensch and Weaver.)
- Weaver, William A., Coventry, England. Tool-holder. No. 1,124,981; Jan. 12; Gaz. vol. 210; p. 670.
- Weaver, Willis, near Sealy, Tex. Seed-corn hanger. No. 1,145,104; July 6; Gaz. vol. 216; p. 47.
- Webb, Albert W., Chicago, Ill. Rope-clamp. No. 1,159,628; Nov. 9; Gaz. vol. 220; p. 459.
- Webb, Austin T., Chicago, Ill. Lens-measure. No. 1,151,635; Aug. 31; Gaz. vol. 217; p. 1375.
- Webb, Cyrus, Hazel Grove, assignor to The Hat Manufacturers Supply Company Limited, Stockport, England. Manufacture of tasseled braid. No. 1,158,603; Nov. 2; Gaz. vol. 220; p. 69.
- Webb, Edwin W. (See Barber and Webb.)
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Lateral-motion roller-bearing. No. 1,127,133; Feb. 2; Gaz. vol. 211; p. 166.
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Roller-bearing for cars. No. 1,137,038; Apr. 27; Gaz. vol. 213; p. 1167.
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Side bearing and supporting-arch for car-trucks. No. 1,149,234; Aug. 10; Gaz. vol. 217; p. 368.
- Webb, Ferdinand, Stewartsville, assignor of one-third to G. W. Norton and one-third to M. F. Boyle, Posey county, Ind. Trammel-wheel. No. 1,133,517; Mar. 30; Gaz. vol. 212; p. 1457.
- Webb, Frank, Melrose, Mass. Protector for hand-hole covers. No. 1,130,779; Mar. 9; Gaz. vol. 212; p. 361.
- Webb, George H., Skowhegan, Me. Hose-attaching device. No. 1,145,532; July 6; Gaz. vol. 216; p. 195.
- Webb, Harry J., Detroit, Mich. Polishing-machine. No. 1,140,424; May 25; Gaz. vol. 214; p. 1059.
- Webb, Jean F., Jr., assignor to The International Signal Company, Incorporated, New York, N. Y. Train controlling and stopping system. No. 1,125,418; Jan. 19; Gaz. vol. 210; p. 862.
- Webb, Jean F., Jr., assignor to The International Signal Company, New York, N. Y. Train controlling and stopping system. No. 1,125,419; Jan. 19; Gaz. vol. 210; p. 863.

Alphabetical list of patentees—Continued.

- Webb, Jean F., Jr., assignor to The International Signal Company, New York, N. Y. Valve mechanism. No. 1,141,161; June 1; Gaz. vol. 215; p. 25.
- Webb, Jean F., Jr., assignor to International Signal Co., Incorporated, New York, N. Y. Plow-shoe. No. 1,145,283; July 6; Gaz. vol. 216; p. 107.
- Webb, Jervis B., Mount Vernon, N. Y., assignor to H. W. Johns-Manville Company. Furring-strip. No. 1,153,836; Sept. 14; Gaz. vol. 218; p. 560.
- Webb, Joe C., Ponder Creek, Okla. Chicken-brooder. No. 1,146,603; July 13; Gaz. vol. 216; p. 592.
- Webb, John L., Sawtelle, and C. C. Murdy, Westminster, Cal. Rotary machine. No. 1,139,937; May 18; Gaz. vol. 214; p. 853.
- Webb, John L., Sawtelle, and S. F. Sturdevant, Ocean Park, Cal. Game apparatus. No. 1,157,828; Oct. 26; Gaz. vol. 219; p. 992.
- Webb, Joseph, *et al.* (See Fuller, Eugene, assignor.)
- Webb, Joseph A., Traverse City, Mich. Carbureter. No. 1,152,134; Aug. 31; Gaz. vol. 217; p. 1547.
- Webb, Joseph F., and G. C. Crane, Ann Arbor, Mich.; said Crane assignor to said Webb. Mold for composition buildings. No. 1,126,323; Jan. 26; Gaz. vol. 210; p. 1219.
- Webb, Robert. (See Jeanne, Hippolyte, assignor.)
- Webb Talking Pictures Company, The. (See Stunz, William P., assignor.)
- Webb, Wilbur L., Bridgewater Corners, Vt. Gun-sight. No. 1,147,469; July 20; Gaz. vol. 216; p. 914.
- Webb, William E., Jr., Larchmont, N. Y. Neckwear. No. 1,159,629; Nov. 9; Gaz. vol. 220; p. 459.
- Webb, William J., East Akron, Ohio. Safety-catch for elevators. No. 1,126,598; Jan. 26; Gaz. vol. 210; p. 1319.
- Webb, Wilmer M., assignor to H. T. Paiste Company, Philadelphia, Pa. Outlet-hood for conduits. No. 1,158,346; Oct. 26; Gaz. vol. 219; p. 1174.
- Webber, Charles F., Boston, and E. P. Hemenway, deceased, Winchester, Mass.; L. E. Gullow, administrator, assignor to said Webber. Resilient wheel. No. 1,163,575; Dec. 7; Gaz. vol. 221; p. 293.
- Webber, John D., Bayonne, assignor to Automatic Weighing Machine Company, Newark, N. J. Weighing apparatus. No. 1,157,350; Oct. 19; Gaz. vol. 219; p. 764.
- Webber, John D., Bayonne, assignor to Automatic Weighing Machine Company, Newark, N. J. Apparatus for regulating the flow of various materials. No. 1,162,002; Nov. 30; Gaz. vol. 220; p. 1442.
- Webber, John P., Newark, N. J. Antiskidding device for autotrucks. No. 1,126,141; Jan. 26; Gaz. vol. 210; p. 1152.
- Webber, Philip H., Hopeston, Ill. Tongue-support. No. 1,128,393; Feb. 16; Gaz. vol. 211; p. 694.
- Webber, Rollin F., Washington, D. C. Starting device for explosive-engines. No. 1,160,475; Nov. 16; Gaz. vol. 220; p. 811.
- Webber, Rollin F., Washington, D. C. Starting device for explosive-engines. No. 1,160,476; Nov. 16; Gaz. vol. 220; p. 811.
- Webber, Rollin F., and G. W. Slater, Washington, D. C., assignors to Automatic Appliances and Manufacturing Corporation, Wilmington, Del. Starting device for motor-vehicles. No. 1,160,474; Nov. 16; Gaz. vol. 220; p. 811.
- Webber, Walter I., Los Angeles, Cal. Computing device. No. 1,138,817; May 11; Gaz. vol. 214; p. 424.
- Webber, Wesley, Kearney, N. J. Automobile. No. 1,133,345; Mar. 30; Gaz. vol. 212; p. 1396.
- Webber, William M., assignor of one-fourth to H. W. Sheppard and one-fourth to G. W. Woods, Groveland, Fla. Airship. No. 1,160,552; Nov. 16; Gaz. vol. 220; p. 838.
- Webber, William M., assignor of one-fourth to H. W. Sheppard and one-fourth to E. E. Sheppard, Groveland, Fla. Rudder mechanism for airships. No. 1,165,731; Dec. 28; Gaz. vol. 221; p. 1173.
- Webel, Friedrich, West Hoboken, N. J. Stamping-machine. No. 1,127,704; Feb. 9; Gaz. vol. 211; p. 402.
- Webendorfer, John F., New York, N. Y. Coin-counter. No. 1,128,561; Feb. 16; Gaz. vol. 211; p. 753.
- Weber, Andrew W., Jackson, Mich. Gas-stove igniter. No. 1,126,142; Jan. 26; Gaz. vol. 210; p. 1152.
- Weber, Andrew W., Jackson, Mich. Cap for milk-bottles. No. 1,142,291; June 8; Gaz. vol. 215; p. 460.
- Weber, August, Sr., assignor to Weber Electric Company, Schenectady, N. Y. Case for incandescent electric lamp-sockets. No. 1,136,383; Apr. 20; Gaz. vol. 213; p. 897.
- Weber, August, Sr., assignor to Weber Electric Company, Schenectady, N. Y. Case for incandescent-electric-lamp sockets. No. 1,145,105; July 6; Gaz. vol. 216; p. 47.
- Weber, Benjamin, Baltimore, Md. Trunk-lid lifter and fastener. No. 1,145,638; July 6; Gaz. vol. 216; p. 231.
- Weber, Carl, Chicago, Ill. Plastering wall-surfaces. No. 1,139,091; May 11; Gaz. vol. 214; p. 520.
- Weber Electric Company. (See Weber, August, Sr., assignor.)
- Weber, Emil, assignor of one-third to C. L. Becker, New York, N. Y. Candy-making. No. 1,133,205; Mar. 23; Gaz. vol. 212; p. 1311.
- Weber, Emil, assignor to Firm of A. Saurer, Arbon, Switzerland. Embroidering-machine. No. 1,148,557; Aug. 3; Gaz. vol. 217; p. 26.
- Weber, Frank, Louisville, Ky. Dump-wagon. No. 1,159,140; Nov. 2; Gaz. vol. 220; p. 252.
- Weber, Frederick C., New York, N. Y. Pumping system. No. 1,136,070; Apr. 20; Gaz. vol. 213; p. 785.
- Weber, Friedrich W., Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Stable compounds containing hydrogen peroxid and making the same. No. 1,153,985; Sept. 21; Gaz. vol. 218; p. 645.
- Weber, George H., Carlton, Oreg., Overhead carrier. No. 1,137,040; Apr. 27; Gaz. vol. 213; p. 1168.
- Weber, George J., Kansas City, Mo. Gas-producer. No. 1,129,258; Feb. 23; Gaz. vol. 211; p. 1032.
- Weber, George W., assignor to American Can Company, New York, N. Y. Individual drinking-cup. No. 1,137,039; Apr. 27; Gaz. vol. 213; p. 1167.
- Weber, George W., St. Paul, Minn., assignor to American Can Company, New York, N. Y. Asparagus-can. No. 1,158,089; Oct. 26; Gaz. vol. 219; p. 1085.
- Weber, Gustav, Hagen, Germany. Chuck for holding work-pieces. No. 1,141,594; June 1; Gaz. vol. 215; p. 181.
- Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Work-guide for stitching or stapling machines. No. 1,130,048; Mar. 2; Gaz. vol. 212; p. 72.
- Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Stapling-machine. No. 1,132,990; Mar. 23; Gaz. vol. 212; p. 1234.
- Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Staple forming and driving machine. No. 1,134,303; Apr. 6; Gaz. vol. 213; p. 80.
- Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Adjustable guide for stapling and riveting machines. No. 1,150,912; Aug. 24; Gaz. vol. 217; p. 1032.
- Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Ticket-stapling machine. No. 1,159,447; Nov. 9; Gaz. vol. 220; p. 394.
- Weber, Henry E., Canton, Ohio. Dental chair. No. 1,157,351; Oct. 19; Gaz. vol. 219; p. 764.
- Weber, John, Elba, N. Y. Whiffletree-guard. No. 1,143,924; June 22; Gaz. vol. 215; p. 1091.
- Weber, John, Newark, N. J. Clutch. No. 1,150,237; Aug. 17; Gaz. vol. 217; p. 791.
- Weber, John A., Toledo, Ohio. Rosser mechanism. No. 1,153,363; Sept. 14; Gaz. vol. 218; p. 392.
- Weber, Josef. (See Goldschmidt and Weber.)
- Weber, Josef, Essen-on-the-Ruhr, Germany. Opaquing composition for enamels and the like. No. 1,150,467; Aug. 17; Gaz. vol. 217; p. 871.
- Weber, Judson, Marcus Hook, Pa. Screen-door protector. No. 1,153,472; Sept. 14; Gaz. vol. 218; p. 431.
- Weber, Lewis F., Frankfort-on-the-Main, Germany, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for treating shoes with liquids. No. 1,149,235; Aug. 10; Gaz. vol. 217; p. 368.
- Weber, Mathew J., assignor to The Ohio Pump & Brass Company, Columbus, Ohio. Motor. No. 1,149,549; Aug. 10; Gaz. vol. 217; p. 481.
- Weber, Peter, Orange, N. J. Talking-machine. No. 1,133,685; Mar. 30; Gaz. vol. 212; p. 1519.
- Weber, Philip J., Jr., Chicago, Ill. Vehicle-arrester. No. 1,141,291; June 1; Gaz. vol. 215; p. 72.
- Weber, Robert. (See Schwarz and Weber.)
- Weber, Robert, Chehalis, Wash. Music-leaf turner. No. 1,129,259; Feb. 23; Gaz. vol. 211; p. 1033.
- Weber, Vincent H., Dayton, Ohio. Fly-trap. No. 1,163,489; Dec. 7; Gaz. vol. 221; p. 264.
- Weber, Walter, assignor to Henkel & Cie., Dusseldorf, Germany. Manufacturing magnesium perborate. No. 1,124,081; Jan. 5; Gaz. vol. 210; p. 300.
- Weber, Walter, assignor to Henkel & Cie., Dusseldorf, Germany. Manufacturing peroxid of hydrogen. No. 1,138,519; May 4; Gaz. vol. 214; p. 279.
- Weber, Walter, assignor to Henkel & Cie., Dusseldorf, Germany. Manufacturing peroxid of hydrogen. No. 1,138,520; May 4; Gaz. vol. 214; p. 279.
- Weber, Walter, assignor to Henkel & Cie., Dusseldorf, Germany. Apparatus for the continuous production by synthesis of hydrogen peroxid. No. 1,144,271; June 22; Gaz. vol. 215; p. 1215.
- Weber, Wilhelm, Hayingen, Germany. Blasting-cartridge. No. 1,157,270; Oct. 19; Gaz. vol. 219; p. 736.
- Weber, William F., Oconomowoc, Wis. Stanchion-hanger. No. 1,163,723; Dec. 14; Gaz. vol. 221; p. 392.
- Weblor, William H., and L. G. Ghent, Sodas Center, N. Y. Train-control apparatus. No. 1,141,998; June 8; Gaz. vol. 215; p. 356.
- Weborg, Fred B., Jamestown, N. Y. Bed-spring attachment. No. 1,163,051; Dec. 7; Gaz. vol. 221; p. 110.
- Webster, Allen K., Brookville, Kans. Two-row cutter and conveyer for corn-binders. No. 1,144,515; June 29; Gaz. vol. 215; p. 1327.
- Webster, Alvah D., Haverhill, Mass. Root-cutting plow. No. 1,149,102; Aug. 3; Gaz. vol. 217; p. 216.
- Webster, Arthur C., Peckville, Pa. Paint-pot. No. 1,157,475; Oct. 19; Gaz. vol. 219; p. 808.
- Webster, Benjamin C., assignor to Harvey Hubbell Incorporated, Bridgeport, Conn. Switch movement. No. 1,149,312; Aug. 10; Gaz. vol. 217; p. 397.

Alphabetical list of patentees—Continued.

- Webster, Bester R., Poplar Bluff, Mo., assignor, by mesne assignments, to The Dalton Adding Machine Company, Cincinnati, Ohio. Recording-machine. No. 1,131,808; Mar. 16; Gaz. vol. 212; p. 754.
- Webster, Charles B., Fall River, assignor to J. K. Lanning, Boston, Mass. Winding mechanism. No. 1,141,890; June 1; Gaz. vol. 215; p. 280.
- Webster, Charles J., Osceola, Nebr. Collapsible metal packing-case. No. 1,132,812; Mar. 23; Gaz. vol. 212; p. 1169.
- Webster, Christopher, assignor to Gorham Manufacturing Company, Providence, R. I. Insulator for coffee and tea pot handles. No. 1,128,827; Feb. 16; Gaz. vol. 211; p. 845.
- Webster, Edwin A., Groveland, assignor to Haverhill Shoe Machinery Company, Haverhill, Mass. Heel-breasting machine. No. 1,133,240; Mar. 23; Gaz. vol. 212; p. 1321.
- Webster Electric Company. (See Milton, John L., assignor.)
- Webster, Ernest C., and H. Gruenhagen, Oakland, Cal. Electric heating-stopper for liquid containers. No. 1,133,346; Mar. 30; Gaz. vol. 212; p. 1396.
- Webster, Glen C., *et al.* (See Cole, William B., assignor.)
- Webster, Harry G., Chicago, Ill. Multicontact relay. No. 1,133,449; Mar. 30; Gaz. vol. 212; p. 1432.
- Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,123,826; Jan. 5; Gaz. vol. 210; p. 214.
- Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Electromagnet. No. 1,128,562; Feb. 16; Gaz. vol. 211; p. 753.
- Webster, Herbert A., Passaic, N. J. Roughing attachment for horseshoes. No. 1,159,558; Nov. 9; Gaz. vol. 220; p. 433.
- Webster, Ira J., Haverhill, Mass. Heel-building machine. No. 1,137,041; Apr. 27; Gaz. vol. 213; p. 1168.
- Webster, Ira J., Haverhill, Mass. Pneumatic tire. No. 1,162,671; Nov. 30; Gaz. vol. 220; p. 1669.
- Webster, Ira J., Haverhill, Mass., assignor, by mesne assignments, to Reliance A. C. Company, Inc., New York, N. Y. Pneumatic tire. No. 1,149,007; Aug. 3; Gaz. vol. 217; p. 185.
- Webster, Ira J., Haverhill, Mass., assignor to Reliance A. C. Company, Inc., New York, N. Y. Pneumatic tire. No. 1,149,008; Aug. 3; Gaz. vol. 217; p. 186.
- Webster, Ira J., Haverhill, Mass., assignor to Reliance A. C. Company, Inc., New York, N. Y. Pneumatic tire. No. 1,158,604; Nov. 2; Gaz. vol. 220; p. 69.
- Webster, Ira J., Haverhill, Mass., assignor, by mesne assignments, to Reliance A. C. Company, Inc., New York, N. Y. Making tires. No. 1,161,093; Nov. 23; Gaz. vol. 220; p. 1075.
- Webster, Ira J., Haverhill, Mass., assignor, by mesne assignments, to Reliance A. C. Company, Inc., New York, N. Y. Tire. No. 1,166,026; Dec. 28; Gaz. vol. 221; p. 1274.
- Webster, John A., Rutherford, N. J., assignor to Auto-sales Gum and Chocolate Company, New York, N. Y. Coin-operated vending-machine. No. 1,157,069; Oct. 19; Gaz. vol. 219; p. 664.
- Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Resilient driving connection. No. 1,126,143; Jan. 26; Gaz. vol. 210; p. 1153.
- Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil-guard for dynamo-electric machines. No. 1,135,087; Apr. 13; Gaz. vol. 213; p. 403.
- Webster, John L., Ottawa, Ontario, Canada. Fuel-saver and smoke-consumer. No. 1,125,228; Jan. 19; Gaz. vol. 210; p. 793.
- Webster, John L., assignor of one-half to J. H. Welch, Brockport, N. Y. Egg tray and carrier. No. 1,149,103; Aug. 3; Gaz. vol. 217; p. 216.
- Webster, John M., assignor to The O. P. Schriver Co., Cincinnati, Ohio. Caster. No. 1,138,818; May 11; Gaz. vol. 214; p. 424.
- Webster, Joseph E., Dalhart, Tex. Trap. No. 1,161,558; Nov. 23; Gaz. vol. 220; p. 1242.
- Webster, Joseph S., Minneapolis, Minn. Boiler-front. No. 1,164,687; Dec. 21; Gaz. vol. 221; p. 769.
- Webster, Melvin F., Minneapolis, Minn. Variable-speed-transmission mechanism. No. 1,136,188; Apr. 20; Gaz. vol. 213; p. 826.
- Webster Stevens Electric Company. (See Stevens, Elbridge W., assignor.)
- Webster, Thomas F., Sewickley, Pa., assignor to Link-Belt Company, Chicago, Ill. Screening-conveyer. No. 1,142,648; June 8; Gaz. vol. 215; p. 584.
- Webster, Turner K. (See Milton, John L., assignor.)
- Webster, William A., assignor of one-half to J. Hulse, Galesburg, Ill. Sack-baler. No. 1,135,931; Apr. 13; Gaz. vol. 213; p. 695.
- Webster, William R., Bridgeport, Conn. Machine for drawing metal blanks. No. 1,132,531; Mar. 16; Gaz. vol. 212; p. 1017.
- Webster, William R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filler-tube cap. No. 1,125,229; Jan. 19; Gaz. vol. 210; p. 794.
- Wechsler, Samuel. (See Wechsler, Sander M. and S.)
- Wechsler, Sander M. and S., Cleveland, Ohio. Spool-holder. No. 1,136,854; Apr. 20; Gaz. vol. 213; p. 1064.
- Wedderburn, George, Vienna, Va. Gas-iron. No. 1,151,140; Aug. 24; Gaz. vol. 217; p. 1160.
- Weddle, Harry. (See Van Slyke, Raymond M., assignor.)
- Weddle, Howard N., Dinuba, Cal. Saw-supporting means. No. 1,145,284; July 6; Gaz. vol. 216; p. 107.
- Wedell, Otto B., Elgin, Ill. Eyeglass-chain reel. No. 1,141,855; June 1; Gaz. vol. 215; p. 267.
- Wedeman, George F. (See Arnold and Wedeman.)
- Wedemeyer, Adrian A., *et al.* (See Erlinger, George, assignor.)
- Weder, Hermann, Sr., and C. H. Wolff, Philadelphia, Pa. Door stop and holder. No. 1,132,412; Mar. 16; Gaz. vol. 212; p. 972.
- Wedge, Clarence C., Chardon, Ohio. Gas-engine starter. No. 1,157,829; Oct. 26; Gaz. vol. 219; p. 992.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,123,965; Jan. 5; Gaz. vol. 210; p. 260.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,123,966; Jan. 5; Gaz. vol. 210; p. 260.
- Wedge, Utley, Ardmore, Pa. Slag-heated steam-generator. No. 1,129,928; Mar. 2; Gaz. vol. 212; p. 33.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,131,449; Mar. 9; Gaz. vol. 212; p. 592.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,133,828; Mar. 30; Gaz. vol. 212; p. 1570.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,133,829; Mar. 30; Gaz. vol. 212; p. 1570.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,137,559; Apr. 27; Gaz. vol. 213; p. 1354.
- Wedge, Utley, Ardmore, Pa. Electrical heater for liquids. No. 1,154,356; Sept. 21; Gaz. vol. 218; p. 773.
- Wedge, Utley, Ardmore, Pa. Furnace and allied structure. No. 1,159,141; Nov. 2; Gaz. vol. 220; p. 252.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,162,532; Nov. 30; Gaz. vol. 220; p. 1626.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,162,533; Nov. 30; Gaz. vol. 220; p. 1626.
- Wedge, Utley, Ardmore, Pa. Metallurgical furnace. No. 1,162,534; Nov. 30; Gaz. vol. 220; p. 1626.
- Wedge, Utley, Ardmore, Pa. Furnace-dust collector. No. 1,165,351; Dec. 21; Gaz. vol. 221; p. 999.
- Wedig, John H., Granite City, Ill. Hypodermic syringe. No. 1,154,677; Sept. 28; Gaz. vol. 218; p. 913.
- Wedlansky, Sol. I., *et al.* (See Clark, Harry W., assignor.)
- Wedler, Carl R., Cleveland, Ohio. Nasal tampon. No. 1,133,770; Mar. 30; Gaz. vol. 212; p. 1548.
- Wedmore, Daniel A., assignor to Philadelphia Steel & Wire Co., Philadelphia, Pa. Supporting and spacing means for reinforcing-bars. No. 1,153,279; Sept. 14; Gaz. vol. 218; p. 360.
- Wedit Company, The. (See Fenn, William B., assignor.)
- Wedoo, Grace, Garner, Iowa. Folding box. No. 1,134,783; Apr. 6; Gaz. vol. 213; p. 256.
- Weed, Clarence R. (See Plumb and Weed.)
- Weed, Harry D. (See Lipe and Weed.)
- Weed, Harry D., Canastota, N. Y., assignor to W. B. Lashar, Bridgeport, Conn. Grip-tread armor for elastic tires. No. 1,139,388; May 11; Gaz. vol. 214; p. 623.
- Weed, Harry D., Canastota, N. Y., assignor to W. B. Lashar, Bridgeport, Conn. Grip-tread for vehicle-tires. No. 1,141,735; June 1; Gaz. vol. 215; p. 230.
- Weed, Harry D., Syracuse, N. Y., assignor to W. B. Lashar, Bridgeport, Conn. Antiskidding device for dual tires. No. 1,147,470; July 20; Gaz. vol. 216; p. 914.
- Weed, Howard W., Stamford, Conn. Folding back. No. 1,146,675; July 13; Gaz. vol. 216; p. 615.
- Weed, Howard W., Stamford, Conn. Folding-back attachment. No. 1,146,676; July 13; Gaz. vol. 216; p. 616.
- Weed, Mervin J. (See Schwartz, Carl, assignor.)
- Weed, Oscar G., St. Joseph, Mo. Post-mold. No. 1,134,653; Apr. 6; Gaz. vol. 213; p. 208.
- Weeks, Charles A., assignor to T. R. Patton and F. C. Mencke, Philadelphia, Pa. Making coke and recovering by-products. No. 1,127,949; Feb. 9; Gaz. vol. 211; p. 493.
- Weeks, Charles S. (See Dilworth and Weeks.)
- Weeks, Charles T., Chelsea, Mass. Dirigible headlight for automobiles. No. 1,131,023; Mar. 9; Gaz. vol. 212; p. 446.
- Weeks, Dean S., Oakland, Cal. Milk-bottle holder. No. 1,160,022; Nov. 9; Gaz. vol. 220; p. 599.
- Weeks, Frank E., assignor to R. Malcolm, Chicago, Ill. Eye-shield. No. 1,163,290; Dec. 7; Gaz. vol. 221; p. 194.
- Weeks, George, assignor to The Hoffmann Manufacturing Company Limited, Chelmsford, England. Machine for grinding balls and rollers. No. 1,166,286; Dec. 28; Gaz. vol. 221; p. 1370.
- Weese, William B., Grant City, Mo., and L. M. Crawford, Valley Junction, Iowa. Binder and mower truck. No. 1,163,608; Dec. 7; Gaz. vol. 221; p. 306.
- Wefel, William C. H., assignor of forty-nine one-hundredths to S. R. Whitaker, H. D. Bartlett, and A. S. Whitaker, Denver, Colo. Electric-arc lamp. No. 1,151,841; Aug. 31; Gaz. vol. 217; p. 1446.
- Wefen, Emil E., Christiania, Norway. Club. No. 1,165,216; Dec. 21; Gaz. vol. 221; p. 955.

Alphabetical list of patentees—Continued.

- Wege, Ernest F., La Crosse, Wis., assignor to Sterling Machinery Company, La Crescent, Minn. Brick-machine. No. 1,136,743; Apr. 20; Gaz. vol. 213; p. 1026.
- Wegenka, Lodge W., South Bend, Ind. Automobile door-bumper. No. 1,127,329; Feb. 2; Gaz. vol. 211; p. 232.
- Wegland, Samuel A., assignor to Rich Tool Company, Chicago, Ill. Cutting-tool. No. 1,156,336; Oct. 12; Gaz. vol. 219; p. 375.
- Weglein, Louis, Jr., Philadelphia, Pa. Primer and speeder for internal-combustion engines. No. 1,123,444; Jan. 5; Gaz. vol. 210; p. 85.
- Wegner, Daniel. (See Steinburg and Wegner.)
- Wegner, Fred, Fairport, assignor to G. W. Cobb, New York, N. Y. Bean-snipper. No. 1,155,454; Oct. 5; Gaz. vol. 219; p. 45.
- Wegner, Fred, Fairport, assignor to G. W. Cobb, New York, N. Y. Bean-snipper. No. 1,155,455; Oct. 5; Gaz. vol. 219; p. 45.
- Wegner, Frederick A., assignor to M. E. Wegner, Buffalo, N. Y. Grain-conditioner. No. 1,139,610; May 18; Gaz. vol. 214; p. 737.
- Wegner, Gustave A. (See Wetterauer and Wegner.)
- Wegner, Julius, Astoria, N. Y. Shaping-machine. No. 1,130,454; Mar. 2; Gaz. vol. 212; p. 215.
- Wegner, Mary E. (See Wegner, Frederick A., assignor.)
- Wegstein, Joseph C. (See Strauch and Wegstein.)
- Wegwart, Herman. (See Greenlee and Wegwart.)
- Wegwart, Herman, assignor to Badger Basket & Veneer Co., Burlington, Wis. Basket-runner clamp. No. 1,133,416; Mar. 30; Gaz. vol. 212; p. 1421.
- Wehe, William T. (See Henthorn and Wehe.)
- Wehinger, Frederick, assignor to The Waterbury Clock Co., Waterbury, Conn. Clock. No. 1,127,134; Feb. 2; Gaz. vol. 211; p. 166.
- Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Strike and chime clock. No. 1,128,737; Feb. 16; Gaz. vol. 211; p. 812.
- Wehmann, George F., New York, N. Y., and L. G. Wulbern, Charleston, S. C. Automatic safety-valve. No. 1,164,436; Dec. 14; Gaz. vol. 221; p. 640.
- Wehner, Benjamin, North Braddock, Pa., assignor to Westinghouse Electric and Manufacturing Company. Drilling-machine. No. 1,148,640; Aug. 3; Gaz. vol. 217; p. 56.
- Wehrle Company, The. (See Pickup, George E., assignor.)
- Wehrle, Frank X., assignor to Seth Thomas Clock Co., Thomaston, Conn. Eight-day nickel alarm-clock. No. 1,128,738; Feb. 16; Gaz. vol. 211; p. 813.
- Weible, Ferdinand P. (See Titus, Weible, and Johnson.)
- Weichel, Clyde F., Scranton, Pa., assignor to Technical Supply Co. Bottle-top. No. 1,128,203; Feb. 9; Gaz. vol. 211; p. 580.
- Weichman, Louis C., Youngstown, Ohio. Collar-clip. No. 1,139,452; May 11; Gaz. vol. 214; p. 646.
- Welckel, Henry, Milwaukee, assignor to Pawling and Harnischfeger Company, West Milwaukee, Wis. Switch and safety-stop for elevated conveyer-tracks. No. 1,139,611; May 18; Gaz. vol. 214; p. 738.
- Weide, Hans, assignor of one-half to O. Lorenz, New York, N. Y. Latch. No. 1,137,818; May 4; Gaz. vol. 214; p. 33.
- Weide, Hans, assignor of one-half to O. Lorenz, New York, N. Y. Latch. No. 1,137,819; May 4; Gaz. vol. 214; p. 34.
- Weidenbaum, William F., assignor to Schram Bros. Company, Chicago, Ill. Convertible table and desk. No. 1,163,291; Dec. 7; Gaz. vol. 221; p. 194.
- Weidlich, Louis, Stratford, Conn. Electric switch. No. 1,152,580; Sept. 7; Gaz. vol. 218; p. 75.
- Weidlich, Louis, Stratford, Conn. Adjustable reflector for incandescent lamps. No. 1,152,581; Sept. 7; Gaz. vol. 218; p. 75.
- Weldner, Hayes, Cliffs, Ariz. Spring-wheel. No. 1,135,869; Apr. 13; Gaz. vol. 213; p. 675.
- Weiershaus, Emil, Barmen-Rittershausen, Germany. Reed for looms. No. 1,158,347; Oct. 26; Gaz. vol. 219; p. 1174.
- Weigel, Adolf, Berlin, Germany. Attachment for firearms. No. 1,128,739; Feb. 16; Gaz. vol. 211; p. 813.
- Weigel, Arnold A. (See Woods and Weigel.)
- Weigel, Hallie. (See Hopkins, Floyd R., assignor.)
- Weigel, Herbert L., Buffalo, N. Y. Device for holding rugs or other articles. No. 1,161,559; Nov. 23; Gaz. vol. 220; p. 1243.
- Weigel, Joel, Pittsburg, Cal. Combined hinge and ladder for silos. No. 1,158,756; Nov. 2; Gaz. vol. 220; p. 121.
- Weigel, Joel, Pittsburg, Cal., assignor to Redwood Manufacturing Company. Combined hinge and ladder for silos. No. 1,126,170; Jan. 26; Gaz. vol. 210; p. 1164.
- Weigel, John, Sr., Cincinnati, Ohio. Heat-radiating attachment for gas and oil illuminating-burners. No. 1,127,950; Feb. 9; Gaz. vol. 211; p. 493.
- Weil, Alexander, New York, N. Y. Too-separator. No. 1,163,490; Dec. 7; Gaz. vol. 221; p. 264.
- Weil, Charles L., assignor to Diamond Crystal Salt Company, St. Clair, Mich. Manufacture of salt. No. 1,141,999; June 8; Gaz. vol. 215; p. 357.
- Weil, Ludwig W. (See Taylor and Weil.)
- Weil, Otto. (See Goldschmidt and Weil.)
- Weiland, Edward W. (See Beach, Robert O., assignor.)
- Weiler, Sigmund G., Milwaukee, Wis. Cutting-chart. No. 1,163,874; Dec. 14; Gaz. vol. 221; p. 444.
- Weiler, Wilhelm, assignor to J. Sklarek, Munich, Germany. Manufacturing artificial stone. No. 1,143,670; June 22; Gaz. vol. 215; p. 1005.
- Weill, A. S. (See Slowe, Preston C., assignor.)
- Weimar, Andrew, assignor to Weimar Brothers, Philadelphia, Pa. Narrow-ware loom. No. 1,135,641; Apr. 13; Gaz. vol. 213; p. 595.
- Weimar Brothers. (See Weimar, Andrew, assignor.)
- Weimer, Edgar A., Lebanon, Pa. Cinder or hot-metal car. No. 1,151,312; Aug. 24; Gaz. vol. 217; p. 1218.
- Weimer, Noah C., Grand Junction, Colo. Harness. No. 1,131,301; Mar. 9; Gaz. vol. 212; p. 541.
- Wein, Samuel, and J. Hluda, Port Chester, N. Y. Vending-machine. No. 1,140,220; May 18; Gaz. vol. 214; p. 952.
- Weinberg, Fred, Schenectady, N. Y. Clothes-line hanger. No. 1,146,981; July 20; Gaz. vol. 216; p. 743.
- Weinberg, Frederick, Detroit, Mich. Fuel-supply apparatus for internal-combustion engines. No. 1,153,660; Sept. 14; Gaz. vol. 218; p. 496.
- Weinberg, Ike J., assignor, by mesne assignments, to Dixie Cotton Felt Mattress Company, Chicago, Ill. Forming and stuffing compartment-mattresses. No. 1,133,686; Mar. 30; Gaz. vol. 212; p. 1520.
- Weinberg, Samuel, Scranton, Pa. Adjustable supporting-bracket. No. 1,163,797; Dec. 14; Gaz. vol. 221; p. 419.
- Weinbrenner, Julius. (See Helmbold and Weinbrenner.)
- Weindel, Anton. (See Hansen and Weindel.)
- Weiner, Rudolph S., El Paso, Tex., assignor to Sullivan Machinery Company, Claremont, N. H. Drill-bit-retaining device. No. 1,164,560; Dec. 14; Gaz. vol. 221; p. 683.
- Weiner, William, Guymon, Okla. Windmill. No. 1,140,221; May 18; Gaz. vol. 214; p. 953.
- Weingarten, Oscar, New York, N. Y. Garment-closure. No. 1,137,437; Apr. 27; Gaz. vol. 213; p. 1313.
- Weingärtner, Eduard, Leipzig-Plagwitz, and W. Friess, Leipzig-Lindenau, Germany. Bronzing or metal-surfacing machine. No. 1,140,642; May 25; Gaz. vol. 214; p. 1136.
- Weinhold, Edmund. (See Bamberg and Weinhold.)
- Weinland, Joseph W. (See Knapp, Charles S., assignor.)
- Weinland, Joseph W., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Adjustable brake-head. No. 1,143,671; June 22; Gaz. vol. 215; p. 1006.
- Weinland, Joseph W., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Safety-hanger for brake-beams. No. 1,165,732; Dec. 28; Gaz. vol. 221; p. 1174.
- Weinland, Joseph W., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Emergency-brake-beam support. No. 1,165,733; Dec. 28; Gaz. vol. 221; p. 1174.
- Weinmann, Ernest W., Chicago, Ill. Alarm-clock. No. 1,126,599; Jan. 26; Gaz. vol. 210; p. 1319.
- Weinstein, Leon, St. Louis, Mo. Combination-tool. No. 1,126,324; Jan. 26; Gaz. vol. 210; p. 1219.
- Weinstein, Leon, St. Louis, Mo. Combination-tool. No. 1,139,938; May 18; Gaz. vol. 214; p. 853.
- Weinstein, Samuel, Chicago, Ill. Tray. No. 1,135,088; Apr. 13; Gaz. vol. 213; p. 403.
- Weintraub, Berthold, Bridgeport, Conn. Boot and shoe heel. No. 1,126,144; Jan. 26; Gaz. vol. 210; p. 1153.
- Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Joining lamp-filaments to current-supply wires. No. 1,131,189; Mar. 9; Gaz. vol. 212; p. 501.
- Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Production of high-frequency currents. No. 1,131,190; Mar. 9; Gaz. vol. 212; p. 502.
- Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Rectifying alternating current. No. 1,134,787; Apr. 6; Gaz. vol. 213; p. 257.
- Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Electric terminal. No. 1,134,788; Apr. 6; Gaz. vol. 213; p. 258.
- Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Vapor electric device. No. 1,138,162; May 4; Gaz. vol. 214; p. 155.
- Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Vapor electric device. No. 1,138,163; May 4; Gaz. vol. 214; p. 156.
- Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Leading-in conductor. No. 1,154,081; Sept. 21; Gaz. vol. 218; p. 678.
- Weintraub, Ezechiel, Schenectady, N. Y., assignor to General Electric Company. Vapor electric lamp or rectifier. No. 1,134,784; Apr. 6; Gaz. vol. 213; p. 256.
- Weintraub, Ezechiel, Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 1,134,785; Apr. 6; Gaz. vol. 213; p. 257.
- Weintraub, Ezechiel, Schenectady, N. Y., assignor to General Electric Company. Rectifying alternating current. No. 1,134,786; Apr. 6; Gaz. vol. 213; p. 257.
- Weintraub, Ezechiel, and L. B. Miller, Lynn, Mass., assignors to General Electric Company. Microphone. No. 1,156,509; Oct. 12; Gaz. vol. 219; p. 438.
- Weintraub, George, Lynn, Mass., assignor to General Electric Company. Making boron nitrid. No. 1,135,232; Apr. 13; Gaz. vol. 213; p. 451.

Alphabetical list of patentees—Continued.

- Weintraub, George, Lynn, Mass., assignor to General Electric Company. Stable boron nitrid and making the same. No. 1,157,271; Oct. 19; Gaz. vol. 219; p. 737.
- Weintraub, Marcus, and A. Katz, Hoboken, N. J. Stick-pin guard. No. 1,145,726; July 6; Gaz. vol. 216; p. 263.
- Weinzler, Joseph T. (See Sturtevant and Weinzler.)
- Weir, David. (See McIntyre and Weir.)
- Weir, David P., Rathdrum, Idaho. Brake for vehicles. No. 1,134,570; Apr. 6; Gaz. vol. 213; p. 178.
- Weir Frog Company, The. (See Goldsmith, Nathaniel O., assignor.)
- Welch, Clarence A., Canton, Ohio. Sheet-metal-forming machine. No. 1,154,951; Sept. 28; Gaz. vol. 218; p. 1003.
- Weis, Andrew L. and F. N., Monroe, Mich., assignors to The Weis-Van Wormer Company. Paraffining-machine. No. 1,151,636; Aug. 31; Gaz. vol. 217; p. 1376.
- Weis, Frank N. (See Weis, Andrew L. and F. N.)
- Weis, Frank O., assignor to North Star Manufacturing Company, Coffeyville, Kans. Cell-case filler. No. 1,140,643; May 25; Gaz. vol. 214; p. 1137.
- Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Top feed or ruffling mechanism for sewing-machines. No. 1,125,230; Jan. 19; Gaz. vol. 210; p. 794.
- Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Goods-spreader. No. 1,139,612; May 18; Gaz. vol. 214; p. 738.
- Weis, John P., Nyack, assignor to C. M. Chapman, New York, N. Y. Work-supporting plate. No. 1,145,175; July 6; Gaz. vol. 216; p. 70.
- Weis, John P., Nyack, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Trimming-machine. No. 1,155,534; Oct. 5; Gaz. vol. 219; p. 74.
- Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Trimming mechanism for sewing-machines. No. 1,155,533; Oct. 5; Gaz. vol. 219; p. 73.
- Weis Manufacturing Company, The. (See Weis, William C., assignor.)
- Weis-Van Wormer Company, The. (See Van Wormer, John R., assignor.)
- Weis-Van Wormer Company, The. (See Weis, Andrew L. and F. N., assignors.)
- Weis Van Wormer Company. (See Weis, William C., assignor.)
- Weis, William C., assignor to The Weis Manufacturing Company, Monroe, Mich. Locking device for swinging type-writer stands. No. 1,151,637; Aug. 31; Gaz. vol. 217; p. 1376.
- Weis, William C., assignor to Weis Van Wormer Company, Monroe, Mich. Bottle-closure expander. No. 1,162,958; Dec. 7; Gaz. vol. 221; p. 78.
- Weisbach, Rudolph, San Francisco, Cal. Non-refillable bottle. No. 1,126,172; Jan. 26; Gaz. vol. 210; p. 1165.
- Weisberger, Theodore, North Yakima, Wash. Stove or furnace. No. 1,152,363; Aug. 31; Gaz. vol. 217; p. 1628.
- Weise, Bruno, New York, N. Y. Implement for acrobatic tricks. No. 1,141,292; June 1; Gaz. vol. 215; p. 73.
- Weiser, Josef, Vienna, Austria-Hungary. Oil-retort. No. 1,127,951; Feb. 9; Gaz. vol. 211; p. 493.
- Weisert, Henry B., et al. (See Jameson, Charles V., assignor.)
- Weisgarber, John, Mount Eaton, Ohio. Grain-lifter. No. 1,123,632; Jan. 5; Gaz. vol. 210; p. 149.
- Weisgarber, Edwin C., and F. C. Leinroth, assignors to Equitable Meter Company, Pittsburgh, Pa. Pressure-regulator. No. 1,166,027; Dec. 28; Gaz. vol. 221; p. 1274.
- Weisglass, Samuel. (See Kapelman, Felix G., assignor.)
- Weishaar, August S., Waterloo, Iowa. Shirt. No. 1,163,730; Dec. 14; Gaz. vol. 221; p. 394.
- Weiskittel, Harry C., Baltimore, Md. Shutter-support for gas-burners. No. 1,143,469; June 15; Gaz. vol. 215; p. 912.
- Weislowits, Edward, Newark, N. J. Shipping-jacket. No. 1,136,635; Apr. 20; Gaz. vol. 213; p. 986.
- Weisnek, John I., assignor of one-half to H. H. Evans, Sheridan, Wyo. Wrench. No. 1,164,149; Dec. 14; Gaz. vol. 221; p. 540.
- Weiss, Albert T., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y. Shelf-section for metallic furniture. No. 1,135,233; Apr. 13; Gaz. vol. 213; p. 451.
- Weiss, Albert T., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y. Follower for filing-receptacles. No. 1,135,234; Apr. 13; Gaz. vol. 213; p. 451.
- Weiss, Albert T., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y. Roller extension-drawer. No. 1,135,235; Apr. 13; Gaz. vol. 213; p. 452.
- Weiss, Albert T., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Metallic-furniture drawer. No. 1,136,071; Apr. 20; Gaz. vol. 213; p. 786.
- Weiss, Albert T., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Label-holder for labeling-machines. No. 1,153,144; Sept. 7; Gaz. vol. 218; p. 274.
- Weiss, Benjamin, New York, N. Y., assignor of one-half to W. L. Weiss. Drip-pan signal. No. 1,163,491; Dec. 7; Gaz. vol. 221; p. 264.
- Weiss, Carl A. (See Dunn and Weiss.)
- Weiss, Carl W., New York, N. Y. Power-transmission device. No. 1,141,508; June 1; Gaz. vol. 215; p. 151.
- Weiss, Carl W., New York, N. Y. Power-transmission device. No. 1,146,982; July 20; Gaz. vol. 216; p. 743.
- Weiss, Carl W., New York, N. Y. Internal-combustion engine. No. 1,150,084; Aug. 17; Gaz. vol. 217; p. 735.
- Weiss, David, New York, N. Y. Detachable heel. No. 1,157,476; Oct. 19; Gaz. vol. 219; p. 808.
- Weiss, George, Chicago, Ill. Machine for making cement drain-tiles, &c. No. 1,142,864; June 15; Gaz. vol. 215; p. 698.
- Weiss, George, assignor to W. E. Dunn Manufacturing Company, Chicago, Ill. Machine for making hollow concrete tile. No. 1,159,448; Nov. 9; Gaz. vol. 220; p. 394.
- Weiss, George C., Pittsburgh, Pa. Vacuum-creating device. No. 1,145,725; July 6; Gaz. vol. 216; p. 263.
- Weiss, Heinrich, Vienna, Austria-Hungary. Cooling device for electrical machines mounted on vessels. No. 1,156,829; Oct. 12; Gaz. vol. 219; p. 549.
- Weiss, Josef, Munich, Germany. Coupling. No. 1,123,445; Jan. 5; Gaz. vol. 210; p. 85.
- Weiss, Joseph, Bison, Kans. Toy. No. 1,123,633; Jan. 5; Gaz. vol. 210; p. 149.
- Weiss, Joseph W., Baltimore, Md. Collapsible box. No. 1,132,292; Mar. 16; Gaz. vol. 212; p. 930.
- Weiss, Joseph W., Baltimore, Md. Collapsible box. No. 1,132,293; Mar. 16; Gaz. vol. 212; p. 931.
- Weiss, Joseph W., Baltimore, Md. Collapsible box. No. 1,146,115; July 13; Gaz. vol. 216; p. 418.
- Weiss, Joseph W., and T. G. Dewling, Baltimore, Md. Scoring and cutting machine. No. 1,143,672; June 22; Gaz. vol. 215; p. 1006.
- Weiss, Marcus. (See Jerger and Weiss.)
- Weiss, Otto, assignor of one-half to W. Sunday, Salt Lake City, Utah. Railway-spike. No. 1,162,266; Nov. 30; Gaz. vol. 220; p. 1535.
- Weiss, Paul. (See Brautigam, Henry, assignor.)
- Weiss, Wolf L. (See Weiss, Benjamin, assignor.)
- Weissbrod, Luther B. (See Bickford, Oramel S., assignor.)
- Weissenburger, George E., Berlin, Germany, assignor of one-half to Otis Elevator Company, New York, N. Y. Making steel. No. 1,140,550; May 25; Gaz. vol. 214; p. 1105.
- Weissenhanner, Alfred L., Bayonne, N. J., assignor to Phoenix-Hermetic Company. Sheet-metal closure. No. 1,129,150; Feb. 23; Gaz. vol. 211; p. 995.
- Weissinger, Jacob, New York, N. Y. Linotype-machine. No. 1,156,730; Oct. 12; Gaz. vol. 219; p. 515.
- Weissmann, Gustave, Paris, France, assignor to A. B. Heine, New York, N. Y. Tubular conductor for incandescent electric lamps. No. 1,136,384; Apr. 20; Gaz. vol. 213; p. 898.
- Weissmiller, Edward C., Los Angeles, Cal. Apparatus for recording and duplicating music-notes. No. 1,162,267; Nov. 30; Gaz. vol. 220; p. 1535.
- Weitlauf, Charles H., Paducah, Ky. Differential gearing for traction-engines. No. 1,148,418; July 27; Gaz. vol. 216; p. 1274.
- Weitman, Samuel A., Thornton, Wash. Weeder. No. 1,144,013; June 22; Gaz. vol. 215; p. 1123.
- Weitzel, Emil, Philadelphia, Pa. Printer's galley-lock. No. 1,140,728; May 25; Gaz. vol. 214; p. 1163.
- Weitzel, George M., Duquesne, Pa. Curtain-support. No. 1,138,336; May 4; Gaz. vol. 214; p. 217.
- Weizmann, Charles. (See Perkin, Weizmann, and Davies.)
- Welch, Albert G., executor. (See Woods, Edwin S.)
- Welch, Albert G., executor and trustee. (See Woods, Edwin S.)
- Welch, Albert G., executor and trustee. (See Woods and Weigel.)
- Welch, Albert G., trustee. (See Woods, Edwin S., assignor.)
- Welch, Allie R., deceased; M. E. Welch, administratrix, Pontiac, Mich. Horn. No. 1,138,267; May 4; Gaz. vol. 214; p. 190.
- Welch, Allie R., deceased; M. E. Welch, Pontiac, Mich., administratrix. Signal for automobiles. No. 1,162,421; Nov. 30; Gaz. vol. 220; p. 1586.
- Welch, Clarence R., Scranton, Pa. Controlling apparatus for hoisting-engines. No. 1,150,720; Aug. 17; Gaz. vol. 217; p. 953.
- Welch, Clarence R., Phoenix, Ariz. Controlling apparatus for hoisting-engines. No. 1,150,721; Aug. 17; Gaz. vol. 217; p. 959.
- Welch, Clarence R., Pittsburgh, Pa. Controlling apparatus for hoisting-engines. No. 1,150,722; Aug. 17; Gaz. vol. 217; p. 959.
- Welch, D. F., et al. (See Scheble, Eugene S., assignor.)
- Welch, Fidellia D. (See Welch, William, assignor.)
- Welch, Francis A., New York, N. Y. Ophthalmoscope. No. 1,166,287; Dec. 28; Gaz. vol. 221; p. 1371.
- Welch, Fred S., Pontiac, Mich. Sprayer. No. 1,147,286; July 20; Gaz. vol. 216; p. 848.
- Welch, George S., Chicago, Ill. Oven. No. 1,124,085; Jan. 5; Gaz. vol. 210; p. 301.
- Welch, Henry. (See Stell and Welch.)
- Welch, Horace H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Speedometer. No. 1,159,816; Nov. 9; Gaz. vol. 220; p. 527.

Alphabetical list of patentees—Continued.

- Welch, James E., Shreveport, La. Kodak attachment for taking motion-pictures. No. 1,164,321; Dec. 14; Gaz. vol. 221; p. 600.
- Welch, Jeanne, Parsons, Kans. Game. No. 1,155,851; Oct. 5; Gaz. vol. 219; p. 184.
- Welch, John H. (See Webster, John L., assignor.)
- Welch, Louis A., Jr. (See Frank, Carl, assignor.)
- Welch, Lyman W., assignor to Welch Mfg. Co., Grand Rapids, Mich. Show-case. No. 1,138,599; May 4; Gaz. vol. 214; p. 306.
- Welch Manufacturing Company, The. (See Gustafson, Alfred, assignor.)
- Welch, Mary E., administratrix. (See Welch, Allie R.)
- Welch Mfg. Co. (See Welch, Lyman W., assignor.)
- Welch, Robert L., Toronto, Ontario, Canada. Wrapping-paper-printing machine. No. 1,131,757; Mar. 16; Gaz. vol. 212; p. 733.
- Welch, Stephen, and J. W. Goyette, Schenectady, N. Y. Horizontal-cylinder engine. No. 1,133,518; Mar. 30; Gaz. vol. 212; p. 1457.
- Welch, Thomas, assignor of one-half to W. V. Campbell, Bridgeport, Ohio. Truss. No. 1,157,353; Oct. 19; Gaz. vol. 219; p. 764.
- Welch, William, assignor of one-fourth to F. D. Welch, Haskell, Tex. Stalk-header and ensilage-cutter. No. 1,154,464; Sept. 21; Gaz. vol. 218; p. 810.
- Welch, William H., Alba, Mich. Mop-wringer. No. 1,128,083; Feb. 9; Gaz. vol. 211; p. 539.
- Welch, William H., assignor to The Cleveland Machine & Mfg. Company, Cleveland, Ohio. Adjustable connection for stamping-presses. No. 1,148,641; Aug. 3; Gaz. vol. 217; p. 57.
- Welches, William, near Waymansville, Ind. Hobbie. No. 1,130,049; Mar. 2; Gaz. vol. 212; p. 72.
- Welchman, David S., Grover, Wyo. Hen's nest. No. 1,141,438; June 1; Gaz. vol. 215; p. 126.
- Weld, Carley G., North Chatham, Mass. Pump. No. 1,163,724; Dec. 14; Gaz. vol. 221; p. 392.
- Weld, George A., Winchester, Mass. Noiseless steam and water mixer. No. 1,152,459; Sept. 7; Gaz. vol. 218; p. 27.
- Welde, Robert. (See Steindorff and Welde.)
- Weldin, Lewis C., Chester Heights, assignor to B. K. Elliot Company, Pittsburgh, Pa. Splice device. No. 1,146,467; July 13; Gaz. vol. 216; p. 545.
- Weldon, George B., Pittsburgh, Pa. Attachment for finger-bowls. No. 1,123,967; Jan. 5; Gaz. vol. 210; p. 261.
- Weldon, Robert J., Fort Worth, Tex. Automatic brake-setting mechanism for pneumatic brakes. No. 1,124,082; Jan. 5; Gaz. vol. 210; p. 300.
- Weldon Roberts Rubber Company. (See Roberts, Florence D., assignor.)
- Weldy, Arthur S., Toronto, Ontario, Canada, assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Holder. No. 1,162,003; Nov. 30; Gaz. vol. 220; p. 1442.
- Welge, Didrik, South Porcupine, Ontario, Canada. Liquid rheostat. No. 1,157,134; Oct. 19; Gaz. vol. 219; p. 687.
- Welin Marine Equipment Company. (See Broady, Harry W., assignor.)
- Welin Marine Equipment Company. (See Lundin, Andreas P., assignor.)
- Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to L. Maxwell, Cincinnati, Ohio. Combination grand piano. No. 1,133,348; Mar. 30; Gaz. vol. 212; p. 1396.
- Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to L. Maxwell, Cincinnati, Ohio. Automatic combination solo musical instrument. No. 1,136,385; Apr. 20; Gaz. vol. 213; p. 898.
- Welin, Peter, Newcastle, Ind., assignor, by mesne assignments, to L. Maxwell, Cincinnati, Ohio. Player for musical instruments. No. 1,134,249; Apr. 6; Gaz. vol. 213; p. 61.
- Welker, Alexander H., Berlin, Ontario, Canada. Talking-machine. No. 1,123,446; Jan. 5; Gaz. vol. 210; p. 85.
- Welker, Alexander H., Berlin, Ontario, Canada, assignor to The Hawthorne Manufacturing Company, Inc., Bridgeport, Conn. Lamp-supporting deck-bracket. No. 1,132,991; Mar. 23; Gaz. vol. 212; p. 1235.
- Welker, Alvin D. (See Weaver and Welker.)
- Welker, Alvin D. (See Young and Welker.)
- Welker, Alvin D., assignor to The Ohio Match Company, Wadsworth, Ohio. Drive for match-machines. No. 1,158,410; Oct. 26; Gaz. vol. 219; p. 1198.
- Welker, Alvin D., and L. E. Snyder, Wadsworth, Ohio. Potato-planter. No. 1,161,560; Nov. 23; Gaz. vol. 220; p. 1243.
- Welker, Frank H. (See Dettinger and Welker.)
- Well, Hugo C., New York, N. Y. Internal-combustion engine. No. 1,125,231; Jan. 19; Gaz. vol. 210; p. 795.
- Well, Hugo C., assignor of fifty one-hundredths to F. A. B. Meinhardt, New York, N. Y. Internal-combustion engine. No. 1,163,492; Dec. 7; Gaz. vol. 221; p. 264.
- Wellensiek, Louis H., assignor of one-half to S. W. Turner, Houston, Tex. Drive-wheel for traction-engines. No. 1,126,600; Jan. 26; Gaz. vol. 210; p. 1319.
- Weller, George B., Rawlins, Wyo. Superbail. No. 1,132,813; Mar. 23; Gaz. vol. 212; p. 1169.
- Weller, Paul, West Hoboken, N. J. Embroidering-machine. No. 1,145,951; July 13; Gaz. vol. 216; p. 360.
- Weller, Paul A., Maitland, Mo. Attachment for lamp-chimneys. No. 1,137,247; Apr. 27; Gaz. vol. 213; p. 1243.
- Welles Thompson Company. (See Flynn, Clement L., assignor.)
- Wellington, Henry, deceased; L. F. Wellington, administratrix, New York, N. Y. Pump. No. 1,125,611; Jan. 19; Gaz. vol. 210; p. 929.
- Wellington, Louise F., administratrix. (See Wellington, Henry.)
- Wellman Company. (See Patten, Ernest L., assignor.)
- Wellman, Esquire Z. (See Gross and Wellman.)
- Wellman, Harvey P., Albany, assignor to Elliott-Fisher Company, New York, N. Y. Reporting and billing device. No. 1,151,075; Aug. 24; Gaz. vol. 217; p. 1138.
- Wellman, Harvey P., Albany, N. Y., assignor to Elliott-Fisher Company, Harrisburg, Pa. Means facilitating charging and billing. No. 1,159,449; Nov. 9; Gaz. vol. 220; p. 395.
- Wellman, John T., Louisville, Ky. Carrier. No. 1,127,556; Feb. 9; Gaz. vol. 211; p. 353.
- Wellman-Seaver-Morgan Company, The. (See Hulett and Sheal, assignors.)
- Wellman, Silas A. (See Isberg, Eric, assignor.)
- Wells, Albert W., Southbridge, Mass. Ophthalmic mounting. No. 1,152,249; Aug. 31; Gaz. vol. 217; p. 1586.
- Wells, Amelia B., and M. Blickhan, New York, N. Y. Convertible garment. No. 1,128,925; Feb. 16; Gaz. vol. 211; p. 880.
- Wells, Arthur F., and J. Saxton, San Francisco, assignors to J. C. Paine, E. G. Hoag, F. Nelson, and P. Hutchinson, Fowler, Cal. Raisin-vending machine. No. 1,139,828; May 18; Gaz. vol. 214; p. 815.
- Wells, Byron B., assignor to The American Cash Register Company, Columbus, Ohio. Check-printer attachment for cash-registers. No. 1,151,747; Aug. 31; Gaz. vol. 217; p. 1412.
- Wells, Byron B., Columbus, Ohio, assignor, by mesne assignments, to The American Cash Register Manufacturing Company. Check-printer and cash-register. No. 1,156,955; Oct. 19; Gaz. vol. 219; p. 623.
- Wells, Charles A., Chicago, Ill. Packing-box. No. 1,127,135; Feb. 2; Gaz. vol. 211; p. 166.
- Wells, Charles G., *et al.* (See Marvin, Samuel W., assignor.)
- Wells, Earl W., Pittsburgh, Pa. Plug-fuse. No. 1,125,612; Jan. 19; Gaz. vol. 210; p. 929.
- Wells, Edward H., Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-superheater. No. 1,150,407; Aug. 17; Gaz. vol. 217; p. 850.
- Wells, Edward H., Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,150,913; Aug. 24; Gaz. vol. 217; p. 1083.
- Wells, Elmer J., Nashua, Iowa. Hay-rack. No. 1,161,561; Nov. 23; Gaz. vol. 220; p. 1243.
- Wells, Frank O., Greenfield, Mass. Thread-cutting tool. No. 1,165,821; Dec. 28; Gaz. vol. 221; p. 1203.
- Wells, Frank O., Greenfield, Mass. Thread-cutting tool. No. 1,165,822; Dec. 28; Gaz. vol. 221; p. 1203.
- Wells, Frank O., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass. Reversible die. No. 1,129,260; Feb. 23; Gaz. vol. 211; p. 1033.
- Wells, Frank O., and F. Judge, assignors to Greenfield Tap & Die Corporation, Greenfield, Mass. Thread-gage. No. 1,130,866; Mar. 9; Gaz. vol. 212; p. 391.
- Wells, Frederic E., Greenfield, Mass. Making dies. No. 1,125,784; Jan. 19; Gaz. vol. 210; p. 993.
- Wells, George W., Southbridge, Mass. Pocket reading-glass. No. 1,141,225; June 1; Gaz. vol. 215; p. 48.
- Wells, Gustavus V., assignor of one-half to W. S. Putnam, Des Moines, Iowa. Device for marking shoe-boxes. No. 1,134,789; Apr. 6; Gaz. vol. 213; p. 258.
- Wells, Harry M., Alexandria, Ind. Heating-boiler. No. 1,164,244; Dec. 14; Gaz. vol. 221; p. 571.
- Wells, Henry N., Riverhead, N. Y. Hacksaw-holder. No. 1,154,465; Sept. 21; Gaz. vol. 218; p. 810.
- Wells, Joel C., Southbridge, Mass. Ophthalmic mounting. No. 1,132,754; Mar. 23; Gaz. vol. 212; p. 1146.
- Wells, Joel C., Southbridge, Mass. Spectacles. No. 1,139,146; May 11; Gaz. vol. 214; p. 540.
- Wells, Joel C., Southbridge, Mass. Eyeglasses. No. 1,158,605; Nov. 2; Gaz. vol. 220; p. 69.
- Wells, John B. (See Mills and Richards, assignors.)
- Wells, John T., Newport, Ky., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Film-fire-prevention shutter for motion-picture machines. No. 1,154,952; Sept. 28; Gaz. vol. 218; p. 1004.
- Wells, John T., Newport, Ky., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Machine for taking, printing, and projecting motion-pictures. No. 1,165,146; Dec. 21; Gaz. vol. 221; p. 931.
- Wells, John T., Newport, Ky., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Framing-up device for motion-picture machines. No. 1,165,147; Dec. 21; Gaz. vol. 221; p. 931.
- Wells, Samuel H., Oxford, Miss. Portable fence. No. 1,131,302; Mar. 9; Gaz. vol. 212; p. 541.
- Wells, Samuel V., *et al.* (See Orr, Charles B., assignor.)
- Wells, Sheldon S., Short Hills, N. J. Resilient wheel. No. 1,162,004; Nov. 30; Gaz. vol. 220; p. 1443.

Alphabetical list of patentees—Continued.

- Wells, Sheldon S., Short Hills, N. J. Resilient wheel. No. 1,162,005; Nov. 30; Gaz. vol. 220; p. 1443.
- Wells, Smith C., New York, N. Y. Water-heater. No. 1,159,304; Nov. 2; Gaz. vol. 220; p. 311.
- Wells, Thomas J. (See Ducey and Wells.)
- Wells, William H., and J. R. McCumber, Victoria, Va. Signal apparatus. No. 1,126,145; Jan. 26; Gaz. vol. 210; p. 1153.
- Wellsted, William H., Sr., Brampton, Mich. Rotary engine. No. 1,164,897; Dec. 21; Gaz. vol. 221; p. 841.
- Wels, Franz, Vienna, Austria-Hungary. Flying-machine. No. 1,154,466; Sept. 21; Gaz. vol. 218; p. 810.
- Weisbach Light Company. (See Elser, John, assignor.)
- Weisbach Light Company. (See Gulbrandsen, Sverre, assignor.)
- Weisbach Light Company. (See Knoedler, Elmer L., assignor.)
- Weisbach Light Company. (See Little, Thomas J., Jr., assignor.)
- Weisbach Light Company. (See Lyon, Howard, assignor.)
- Weisbach Light Company. (See Peterson, Clarence A., assignor.)
- Weisbach Light Company. (See Snyder, Samuel, assignor.)
- Welsh, Henry, El Paso, Tex. Liquid-container and holder therefor. No. 1,158,757; Nov. 2; Gaz. vol. 220; p. 121.
- Welsh, Louis A., St. Paul, Minn. Automatic dump-vehicle. No. 1,164,604; Dec. 14; Gaz. vol. 221; p. 697.
- Welsh, Henry W. (See Smith and Welsh.)
- Welsh, James W. (See Jones, Phillips, and Welsh.)
- Welsh, John G., San Diego, Cal. Cranking device. No. 1,151,842; Aug. 31; Gaz. vol. 217; p. 1447.
- Welsh, Michael J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Earth-treating process and product. No. 1,132,054; Mar. 16; Gaz. vol. 212; p. 842.
- Welsh, Michael J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Earth-treating process and product. No. 1,159,450; Nov. 9; Gaz. vol. 220; p. 396.
- Welte, Carl M., assignor to M. Wette & Sons, Inc., New York, N. Y. Controller device for tracker-boards. No. 1,158,015; Oct. 26; Gaz. vol. 219; p. 1058.
- Welton, Harold W., Redlands, Cal. Fruit-grading machine. No. 1,140,782; May 25; Gaz. vol. 214; p. 1181.
- Welton, Harry A. (See Welton, Park E. and H. A.)
- Welton, Harry C., assignor to The Mattatuck Manufacturing Company, Waterbury, Conn. Pencil. No. 1,144,082; June 22; Gaz. vol. 215; p. 1147.
- Welton, John A., Canal Dover, Ohio. Apparatus for feeding fine fuel. No. 1,127,136; Feb. 2; Gaz. vol. 211; p. 166.
- Welton, Katharine B. (See Welton, Park E., assignor.)
- Welton, Katharine B. (See Welton, Park E. and H. A., assignors.)
- Welton, Park E., Akron, Ohio. Machine for wrapping annuli. No. 1,140,729; May 25; Gaz. vol. 214; p. 1163.
- Welton, Park E., assignor to K. B. Welton, Akron, Ohio. Feed mechanism for mixing-mills. No. 1,134,172; Apr. 6; Gaz. vol. 213; p. 32.
- Welton, Park E., assignor to K. B. Welton, Akron, Ohio. Core for manufacture of pneumatic-tire casings. No. 1,144,671; June 29; Gaz. vol. 215; p. 1379.
- Welton, Park E., assignor to K. B. Welton, Akron, Ohio. Core for manufacture of pneumatic-tire casings. No. 1,156,570; Oct. 12; Gaz. vol. 219; p. 459.
- Welton, Park E. and H. A., assignors to K. B. Welton, Akron, Ohio. Feed mechanism for mixing-mills. No. 1,134,173; Apr. 6; Gaz. vol. 213; p. 32.
- Welton, William L., and J. Herndon, Birmingham, Ala. Window construction for buildings. No. 1,159,142; Nov. 2; Gaz. vol. 220; p. 253.
- Wetty, Albert D., Sr., Reno, Nev. Painter's guard. No. 1,158,348; Oct. 26; Gaz. vol. 219; p. 1174.
- Wetty, Rufus W., San Francisco, Cal. Pneumatic clutch control. No. 1,133,206; Mar. 23; Gaz. vol. 212; p. 1311.
- Welz, Edwin F., Denver, Colo. Meat-holder. No. 1,156,510; Oct. 12; Gaz. vol. 219; p. 438.
- Wemlinger, Julius R., Brooklyn, N. Y. Bulkhead construction. No. 1,137,938; May 4; Gaz. vol. 214; p. 75.
- Wemp, Ernest E., Pontiac, Mich. Vehicle suspension. No. 1,142,468; June 8; Gaz. vol. 215; p. 524.
- Wemple, Daniel S. (See Wemple, George W. and D. S.)
- Wemple, George H., Battle Creek, Mich. Door-operating mechanism for vehicles. No. 1,150,468; Aug. 17; Gaz. vol. 217; p. 871.
- Wemple, George W., Minneapolis, Minn. Beefsteak-defiberizing machine. No. 1,165,217; Dec. 21; Gaz. vol. 221; p. 955.
- Wemple, George W. and D. S., Minneapolis, Minn. Time-registering egg-boiling machine. No. 1,124,982; Jan. 12; Gaz. vol. 210; p. 670.
- Wendall, Harry F. (See Epley, James G., assignor.)
- Wendell, Carl A., Joliet, Ill. Centrifugal drier. No. 1,136,988; Apr. 27; Gaz. vol. 213; p. 1148.
- Wendell, Carl A., Joliet, Ill. Coal-washing jig. No. 1,163,292; Dec. 7; Gaz. vol. 221; p. 195.
- Wendell, Carl A., Joliet, Ill. Coal-washing apparatus. No. 1,165,734; Dec. 28; Gaz. vol. 221; p. 1174.
- Wendell, Fred C., deceased; T. S. Wendell, administratrix, New York, N. Y. Ironing-machine. No. 1,137,438; Apr. 27; Gaz. vol. 213; p. 1313.
- Wendell, Theresa S., administratrix. (See Wendell, Fred C.)
- Wender, Benjamin, and J. Brunelli, New York, N. Y. Ironing-pad. No. 1,134,430; Apr. 6; Gaz. vol. 213; p. 126.
- Wendle, Edgar J., Johnstown, Pa. Power-transmission mechanism for motor-vehicles. No. 1,129,369; Feb. 23; Gaz. vol. 211; p. 1071.
- Wendle, Edgar J., Johnstown, Pa. Power transmission for motor-vehicles. No. 1,148,879; Aug. 3; Gaz. vol. 217; p. 140.
- Wendle, Edgar J., Johnstown, Pa. Automobile transmission power. No. 1,152,771; Sept. 7; Gaz. vol. 218; p. 143.
- Wendling, John C., Cleveland, Ohio, assignor of one-half to F. H. Schlegelmilch, Ashtabula, Ohio. Engine-valve. No. 1,166,163; Dec. 28; Gaz. vol. 221; p. 1326.
- Wendling, Leo J., Chicago Heights, Ill. Swing. No. 1,130,948; Mar. 9; Gaz. vol. 212; p. 419.
- Wendorf, Henry L., Ballinger, Tex. Saddle-press. No. 1,140,551; May 25; Gaz. vol. 214; p. 1105.
- Wendt, August E., Thorpe, Wis. Radiator foot-rest. No. 1,149,880; Aug. 10; Gaz. vol. 217; p. 601.
- Wenger, Frederick, Dresden, Kans. Windmill. No. 1,133,595; Mar. 30; Gaz. vol. 212; p. 1485.
- Wenig, Max, New York, N. Y. Fish-car. No. 1,162,422; Nov. 30; Gaz. vol. 220; p. 1587.
- Wenk, Henry A. (See Langford and Wenk.)
- Wenman, John L., New Vernon, N. J. Harrow. No. 1,137,560; Apr. 27; Gaz. vol. 213; p. 1354.
- Wennersten, Henning, assignor of one-fourth to J. W. and R. W. Hill, Chicago, Ill. Preserving hops. No. 1,161,272; Nov. 23; Gaz. vol. 220; p. 1141.
- Wenning, Jean C. A., assignor to Société Alsacienne de Constructions Mécaniques, Mülhausen, Germany. Automatic bobbin-change device for looms. No. 1,152,250; Aug. 31; Gaz. vol. 217; p. 1587.
- Wensel, Theodor, et al. (See Annis, Daniel J., assignor.)
- Wensel, Theodor, Joliet, Ill. Printing-press attachment. No. 1,148,469; July 27; Gaz. vol. 216; p. 1291.
- Wensel, Theodor, Joliet, Ill. Printing-press. No. 1,148,470; July 27; Gaz. vol. 216; p. 1292.
- Wensel, Theodor, Joliet, Ill. Printing-press. No. 1,148,471; July 27; Gaz. vol. 216; p. 1292.
- Wenthe, Herman H., assignor to Meyer & Wenthe, Chicago, Ill. Attachment for pocket-seals. No. 1,165,474; Dec. 28; Gaz. vol. 221; p. 1081.
- Wentworth, Arthur M., Pittsfield, Mass., assignor to General Electric Company. Insulated wire and terminal therefor. No. 1,157,916; Oct. 26; Gaz. vol. 219; p. 1024.
- Wentworth, Charles C., Roanoke, Va. Track-scale load-supporting or platform beam. No. 1,147,471; July 20; Gaz. vol. 216; p. 914.
- Wentworth, Frank B., and L. F. Clausung, Los Angeles, Cal. Radiator. No. 1,138,819; May 11; Gaz. vol. 214; p. 424.
- Wentworth, John F., Rochester, N. H. Internal-combustion engine. No. 1,162,423; Nov. 30; Gaz. vol. 220; p. 1587.
- Wentworth, Pearl J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for use in the manufacture of boots and shoes. No. 1,138,584; May 4; Gaz. vol. 214; p. 300.
- Wentworth, Pearl J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Manufacture of boots and shoes. No. 1,138,585; May 4; Gaz. vol. 214; p. 300.
- Wentworth, Pearl J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Upper-pulling mechanism. No. 1,139,613; May 18; Gaz. vol. 214; p. 738.
- Wentworth, Pearl J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-shaping machine. No. 1,157,741; Oct. 26; Gaz. vol. 219; p. 963.
- Wentworth, Pearl J., Hyde Park, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making turnshoes. No. 1,142,741; June 8; Gaz. vol. 215; p. 613.
- Wentz, William, Leon, Kans. Packing-wheel for listers. No. 1,165,735; Dec. 28; Gaz. vol. 221; p. 1175.
- Wenzel, Jacob R., Chicago, Ill. Making packing-rings. No. 1,166,099; Dec. 28; Gaz. vol. 221; p. 1300.
- Wenzel, Max, Spremberg, Germany. Machine for piecing together the threads of warps. No. 1,133,830; Mar. 30; Gaz. vol. 212; p. 1570.
- Wenzelmann, Gustave, Galesburg, Ill. Wringer attachment for washing-machines. No. 1,123,447; Jan. 5; Gaz. vol. 210; p. 86.
- Wenzelmann, Gustave, Galesburg, Ill. Gate-hinge. No. 1,133,417; Mar. 30; Gaz. vol. 212; p. 1422.
- Wenzlick, Charlotte, Milwaukee, Wis. Hair-holder. No. 1,135,745; Apr. 13; Gaz. vol. 213; p. 632.
- Wepking, August, Creighton, Nebr. Bolster-standard. No. 1,150,469; Aug. 17; Gaz. vol. 217; p. 871.
- Werkenthin, Carl, Berlin, Germany. Junction of reinforced building parts, such as walls, pillars, and the like. No. 1,165,475; Dec. 28; Gaz. vol. 221; p. 1082.
- Werling, Julius H. (See Brown and Werling.)
- Wern, Gustav P., New York, N. Y. Clutch for holsting-engines. No. 1,137,939; May 4; Gaz. vol. 214; p. 75.

Alphabetical list of patentees—Continued.

- Wern, Gustav P., New York, N. Y. Clutch-operating mechanism. No. 1,143,673; June 22; Gaz. vol. 215; p. 1006.
- Werner, Alexander, Cologne, Germany. Clamping device for overhead transporters. No. 1,160,799; Nov. 16; Gaz. vol. 220; p. 928.
- Werner, Arthur, and R. S. Denniss, San Francisco, Cal. Guard for the booths of picture-projecting machines. No. 1,139,245; May 11; Gaz. vol. 214; p. 573.
- Werner, Carl H., Waterloo, Iowa. Floor-surfacing machine. No. 1,129,929; Mar. 2; Gaz. vol. 212; p. 33.
- Werner, Charles F., *et al.* (See Markham, James W., assignor.)
- Werner, Ernest E., Indianapolis, Ind. Operating an electrolytic cell. No. 1,139,389; May 11; Gaz. vol. 214; p. 623.
- Werner, H. E., *et al.* (See Dudley, Andrew T., assignor.)
- Werner, John A., assignor to National Cash Register Company, Dayton, Ohio. Total-printing cash-register. No. 1,125,613; Jan. 19; Gaz. vol. 210; p. 929.
- Werner, John A., assignor to The National Cash Register Company, Dayton, Ohio. Cash and autographic register. No. 1,131,758; Mar. 16; Gaz. vol. 212; p. 734.
- Werner, John A., assignor to The National Cash Register Company, Dayton, Ohio. Cash and autographic register. No. 1,131,759; Mar. 16; Gaz. vol. 212; p. 734.
- Werner, John A., assignor to National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,134,174; Apr. 6; Gaz. vol. 213; p. 33.
- Werner, John A., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,146,983; July 20; Gaz. vol. 216; p. 744.
- Werner, John A., assignor to The National Cash Register Company, Dayton, Ohio. Departmental cash-register. No. 1,152,582; Sept. 7; Gaz. vol. 218; p. 75.
- Werner, John A., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,161,094; Nov. 23; Gaz. vol. 220; p. 1076.
- Werner, Louis C., Webster, Mass. Automatic train-controlling device. No. 1,131,191; Mar. 9; Gaz. vol. 212; p. 502.
- Werner, Martin J., Manchester, N. H. Torpedo pressure-gage. No. 1,126,146; Jan. 26; Gaz. vol. 210; p. 1154.
- Werner, Paul R., Philadelphia, Pa. Ignition system. No. 1,123,448; Jan. 5; Gaz. vol. 210; p. 86.
- Werner & Pfleiderer Co. (See Reese, Louis C., assignor.)
- Werner & Pfleiderer Company. (See Pletscher, Carl, assignor.)
- Wernery, Lester A., assignor to Underwood Typewriter Company, New York, N. Y. Combined type-writing and computing machine. No. 1,144,975; June 29; Gaz. vol. 215; p. 1484.
- Wernery, Lester A., and J. A. B. Smith, assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,132,055; Mar. 16; Gaz. vol. 212; p. 843.
- Wernicke, Otto H. L., Grand Rapids, Mich. Internal-combustion engine. No. 1,133,771; Mar. 30; Gaz. vol. 212; p. 1548.
- Wernicke, Paul, Eilenburg, Germany. Molding apparatus. No. 1,140,552; May 25; Gaz. vol. 214; p. 1106.
- Wernigg, Henrik, Akron, Ohio. Safety elevator device. No. 1,135,339; Apr. 13; Gaz. vol. 213; p. 488.
- Wernimont, Henry G., Washington, D. C., assignor, by mesne assignments, to W. Rauhen, Chicago, Ill. Snap-hook. No. 1,136,744; Apr. 20; Gaz. vol. 213; p. 1026.
- Wernimont, Henry G., Washington, D. C., assignor, by mesne assignments, to W. Rauhen, Chicago, Ill. Can-opener. No. 1,137,175; Apr. 27; Gaz. vol. 213; p. 1216.
- Werrbach, John L., Chicago, Ill. Trap for drain-pipes. No. 1,142,469; June 8; Gaz. vol. 215; p. 524.
- Werry, William, London, England. Steam and other fluid-pressure engine. No. 1,153,588; Sept. 14; Gaz. vol. 218; p. 474.
- Wersel, Frank B. Jr., Cincinnati, Ohio. Hammock-cot. No. 1,138,820; May 11; Gaz. vol. 214; p. 425.
- Wertepny, Aleksander, Belfield, N. D. Parachute. No. 1,124,565; Jan. 12; Gaz. vol. 210; p. 521.
- Werth, James R., Richmond, Va. Apparatus for preserving by vacuum. No. 1,145,395; July 6; Gaz. vol. 216; p. 146.
- Werth, James R., Richmond, Va. Jar-closure. No. 1,163,576; Dec. 7; Gaz. vol. 221; p. 294.
- Wertheim, Ludwig, New York, N. Y. Bag-lock. (Re-issue.) No. 13,886; Feb. 23; Gaz. vol. 211; p. 1233.
- Wertheimer, Benjamin, deceased, New York, N. Y.; F. F. Elsemann, executor. Adjustable bandeau. No. 1,159,305; Nov. 2; Gaz. vol. 220; p. 312.
- Wertheimer, Milton, Baltimore, Md. Wrapped cigar. No. 1,128,828; Feb. 16; Gaz. vol. 211; p. 846.
- Wertz, Peter, assignor to Simplex Air-Brake Company, Pittsburgh, Pa. Engineer's brake-valve. No. 1,160,800; Nov. 16; Gaz. vol. 220; p. 928.
- Wertz, Peter, assignor to Simplex Air-Brake Company, Pittsburgh, Pa. Emergency and equalizing valve for air-brake systems. No. 1,160,801; Nov. 16; Gaz. vol. 220; p. 929.
- Wertz, William K. (See Truxell and Wertz.)
- Wertzner, Edwin, Troisdorf, Germany. Apparatus for granulating liquid blast-furnace slag. No. 1,128,829; Feb. 16; Gaz. vol. 211; p. 846.
- Wescher, Max, and R. E. Fischer, Elberfeld, Germany, assignors, by mesne assignments, to United States Envelope Company, Worcester, Mass. Folding device for envelop, paper-bag, and like machines. No. 1,150,085; Aug. 17; Gaz. vol. 217; p. 735.
- Wescott, Jamon A., deceased, Joplin, Mo.; L. Wescott, widow. Pliers. No. 1,127,557; Feb. 9; Gaz. vol. 211; p. 353.
- Wescott, John J., Monroe, Wis. Shock-arrester. No. 1,147,059; July 20; Gaz. vol. 216; p. 770.
- Wescott, Lenora, widow. (See Wescott, Jamon A.)
- Wescott, William B., assignor to Walpole Shoe Supply Company, Boston, Mass. Apparatus for heating cement-coated fabrics. No. 1,124,566; Jan. 12; Gaz. vol. 210; p. 521.
- Wesener, John A., Chicago, Ill. Pressure-gage. No. 1,143,338; June 15; Gaz. vol. 215; p. 866.
- Weser, John A., New York, N. Y. Upright piano. No. 1,134,496; Apr. 6; Gaz. vol. 213; p. 151.
- Weser, John A., New York, N. Y. Mechanical musical instrument. No. 1,137,439; Apr. 27; Gaz. vol. 213; p. 1314.
- Weser, John A., New York, N. Y. Automatic player-piano. No. 1,156,956; Oct. 19; Gaz. vol. 219; p. 623.
- Weser, John A., New York, N. Y. Adjusting device for pianos, piano-players, &c. No. 1,159,630; Nov. 9; Gaz. vol. 220; p. 459.
- Wesley, Gustaf, St. Paul, Minn. Motor attachment for sewing-machines. No. 1,133,687; Mar. 30; Gaz. vol. 212; p. 1520.
- Wesley, Perley R., and A. D. Lamont, assignors to Davol Rubber Company, Providence, R. I. Collapsible bed-pan. No. 1,132,056; Mar. 16; Gaz. vol. 212; p. 843.
- Wessberg, Sigfrid N., Brooklyn, N. Y. Launching apparatus for boats. No. 1,152,678; Sept. 7; Gaz. vol. 218; p. 110.
- Wessel, Joseph. (See Albracht and Wessel.)
- Wessel, Karl, assignor to St. Paul Cornet Company, St. Paul, Minn. Machine for making ice-cream cones. No. 1,148,642; Aug. 3; Gaz. vol. 217; p. 57.
- Wessoleck, Augustus W., assignor to The American Hardware Corporation, New Britain, Conn. Flexible tubing. No. 1,140,425; May 25; Gaz. vol. 214; p. 1059.
- Wessoleck, Augustus W., assignor to The American Hardware Corporation, New Britain, Conn. Odometer. No. 1,140,426; May 25; Gaz. vol. 214; p. 1059.
- Wesson, David, Montclair, N. J., assignor to The Southern Cotton Oil Company, New York, N. Y. Manufacture of catalyzers. No. 1,143,339; June 15; Gaz. vol. 215; p. 867.
- Wesson, Joseph H., assignor to Smith & Wesson, Springfield, Mass. Firearm. No. 1,146,984; July 20; Gaz. vol. 216; p. 744.
- Wesson, Joseph H., assignor to J. M. Gill, Springfield, Mass. Handcuff. No. 1,161,562; Nov. 23; Gaz. vol. 220; p. 1244.
- Wesson, Joseph H., and E. S. Pomeroy, assignors to Smith & Wesson, Springfield, Mass. Handcuff. No. 1,157,135; Oct. 19; Gaz. vol. 219; p. 687.
- West, Abraham L., Newark, N. J. Compensating drive for concentric cylinders or mills. No. 1,144,272; June 22; Gaz. vol. 215; p. 1216.
- West, Augustus A., Brooklyn, N. Y. Type-writer. No. 1,163,725; Dec. 14; Gaz. vol. 221; p. 392.
- West, Brennan B. (See Mears and West.)
- West, Brennan B., Cleveland, Ohio. Heel-rest. No. 1,162,959; Dec. 7; Gaz. vol. 221; p. 79.
- West, Charles C., assignor to Manitowoc Ship Building & Dry Dock Company, Manitowoc, Wis. Sand-barge. No. 1,127,137; Feb. 2; Gaz. vol. 211; p. 167.
- West, Charles C., assignor to Manitowoc Ship Building and Dry Dock Company, Manitowoc, Wis. Sand-barge. No. 1,127,138; Feb. 2; Gaz. vol. 211; p. 168.
- West, Charles C., assignor to Manitowoc Ship Building and Dry Dock Company, Manitowoc, Wis. Hopper-screen device. No. 1,129,322; Feb. 23; Gaz. vol. 211; p. 1054.
- West, Chester R., Colbert, Ga. Salt-stand. No. 1,139,147; May 11; Gaz. vol. 214; p. 541.
- West, Clarence, Keystone, Ind. Stamp-delivering machine. No. 1,161,563; Nov. 23; Gaz. vol. 220; p. 1244.
- West, Clyde M., Piche, Nebr. Resilient wheel. No. 1,155,456; Oct. 5; Gaz. vol. 219; p. 46.
- West Coast Roofing and Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
- West, Cora T., Sandusky, Ohio. Baby dresser and wardrobe. No. 1,127,139; Feb. 2; Gaz. vol. 211; p. 168.
- West, Cyrus R., Dawson, Yukon Territory, Canada. Excavating apparatus. No. 1,154,357; Sept. 21; Gaz. vol. 218; p. 774.
- West Disinfecting Company. (See Doran, Daniel J., assignor.)
- West Disinfecting Company. (See Marcuse, Moses M., assignor.)
- West, Francis M., assignor to A. B. Waring, Yonkers, N. Y. Stencil. No. 1,134,571; Apr. 6; Gaz. vol. 213; p. 178.
- West, Henry I., Cavendish, Vt. Tongue-support. No. 1,136,855; Apr. 20; Gaz. vol. 213; p. 1065.
- West, Henry S., and J. L. Smith, Fort Collins, Colo. Leather-dressing. No. 1,128,926; Feb. 16; Gaz. vol. 211; p. 881.

- West, John. (See Glover and West.)
- West, John B., Syracuse, N. Y. Duplicating-machine. No. 1,149,807; Aug. 10; Gaz. vol. 217; p. 501.
- West, John B., assignor to L. B. West, Balboa, Cal. Book-binding means for pamphlets and signatures. No. 1,143,562; June 15; Gaz. vol. 215; p. 943.
- West, John W., East Braintree, Mass. Controlling device for winding-machines. No. 1,143,003; June 15; Gaz. vol. 215; p. 748.
- West, Joseph M., Rockport, Mo. Amusement device. No. 1,160,802; Nov. 16; Gaz. vol. 220; p. 929.
- West, L. Burton, *et al.*, executors. (See Macdonald, Hugh.)
- West, Lillian B. (See West, John B., assignor.)
- West, Oscar E., Brunswick, Ga. Chute. No. 1,138,431; May 4; Gaz. vol. 214; p. 250.
- West, Oscar E., Brunswick, Ga. Distributing-chute. No. 1,145,952; July 13; Gaz. vol. 216; p. 361.
- West Penn Steel Company. (See White, John E., assignor.)
- West, Sidney, Washington, D. C. Athletic sock. No. 1,138,521; May 4; Gaz. vol. 214; p. 280.
- West, William J., Clay City, Wash. Door-check. No. 1,154,148; Sept. 21; Gaz. vol. 218; p. 700.
- West, William J., Clay City, Wash. Sash-lock. No. 1,160,477; Nov. 16; Gaz. vol. 220; p. 812.
- Westberg, William E., Willmar, Minn. Envelop. No. 1,139,003; May 11; Gaz. vol. 214; p. 489.
- Westbrook, James G., Ogdensburg, N. Y. Spark-plug. No. 1,127,330; Feb. 2; Gaz. vol. 211; p. 232.
- Westbrook, M. J. (See Miller, Samuel, assignor.)
- Westbury, Frank H., assignor to The McClary Manufacturing Co., London, Ontario, Canada. Tea-kettle cover. No. 1,147,472; July 20; Gaz. vol. 216; p. 915.
- Westbye, Peder P., Peterborough, Ontario, Canada. Pulp-screen. No. 1,134,304; Apr. 6; Gaz. vol. 213; p. 81.
- Westbye, Peder P., Peterborough, Ontario, Canada. Pulp-screening machine. No. 1,155,116; Sept. 28; Gaz. vol. 218; p. 1062.
- Westcott, Frederick L., Orlando, Nebr. Brooder. No. 1,135,477; Apr. 13; Gaz. vol. 213; p. 536.
- Westcott, William W. (See White, Frederick H., assignor.)
- Westen, Charles, Chicago, Ill. Valve. No. 1,149,236; Aug. 10; Gaz. vol. 217; p. 368.
- Westenhiser, Oscar F., St. Louis, Mo. Shoe-sole-press attachment. No. 1,160,479; Nov. 16; Gaz. vol. 220; p. 812.
- Westenhiser, Oscar F., St. Louis, Mo., assignor to I. L. Keith, Haverhill, Mass. Sole-press. No. 1,126,325; Jan. 26; Gaz. vol. 210; p. 1219.
- Wester, Swan J., Boone, Iowa. Bed-support. No. 1,156,731; Oct. 12; Gaz. vol. 219; p. 515.
- Westerbeck, Frederick, St. Louis, Mo. Can-making machine. No. 1,129,532; Feb. 23; Gaz. vol. 211; p. 1128.
- Westerbeck, Frederick, St. Louis, Mo. Sheet-metal vessel. No. 1,138,268; May 4; Gaz. vol. 214; p. 191.
- Westerbeck, Frederick, St. Louis, Mo. Container. No. 1,166,395; Dec. 28; Gaz. vol. 221; p. 1410.
- Westergard, Christ, assignor of one-half to G. McKenzie, Everett, Wash. Making tiles, conduit-pipes, bricks, and like products. No. 1,143,004; June 15; Gaz. vol. 215; p. 749.
- Westergard, Christ, assignor of one-half to G. McKenzie, Everett, Wash. Machine for molding pipe. No. 1,143,094; June 15; Gaz. vol. 215; p. 781.
- Westergren, Julius S., Chicopee, Mass. Strainer for drain-pipes. No. 1,155,852; Oct. 5; Gaz. vol. 219; p. 185.
- Westerheide, Wilhelm, Dusseldorf, Germany. Device for lowering coffins. No. 1,165,823; Dec. 28; Gaz. vol. 221; p. 1203.
- Westerman, Augustus H., Rogers, Tex. Socket attachment for harness. No. 1,129,148; Feb. 23; Gaz. vol. 211; p. 994.
- Westerman, Frederick, Chicago, Ill. Depositing-machine. (Reissue.) No. 13,999; Oct. 19; Gaz. vol. 219; p. 882.
- Western Cereal Company. (See Graves, Oriel M., assignor.)
- Western Dental Manufacturing Company (1914) Limited. (See Taylor, Albert H., assignor.)
- Western Electric Company. (See Adams, Arthur H., assignor.)
- Western Electric Company. (See Aldendorff, Fritz, assignor.)
- Western Electric Company. (See Anderegg, Gustavus A., assignor.)
- Western Electric Company. (See Arnold, Harold D., assignor.)
- Western Electric Company. (See Boswau, Johannes P. C., assignor.)
- Western Electric Company. (See Bradbury, Clifford C., assignor.)
- Western Electric Company. (See Brown, Gregory, assignor.)
- Western Electric Company. (See Bruce, William M., Jr., assignor.)
- Western Electric Company. (See Bullard, Albert M., assignor.)
- Western Electric Company. (See Cahusac, Clarence N., assignor.)
- Western Electric Company. (See Clark, Edgar H., assignor.)
- Western Electric Company. (See Clausen, Henry P., assignor.)
- Western Electric Company. (See Colpitts, Edwin H., assignor.)
- Western Electric Company. (See Craft, Edward B., assignor.)
- Western Electric Company. (See Craft and Brown, assignors.)
- Western Electric Company. (See Craft and Reynolds, assignors.)
- Western Electric Company. (See Darrah, Harry L., assignor.)
- Western Electric Company. (See Dietl, Hubert G., assignor.)
- Western Electric Company. (See Dixon, Amos F., assignor.)
- Western Electric Company. (See Dixon and Merritt, assignors.)
- Western Electric Company. (See Dorsey, Herbert G., assignor.)
- Western Electric Company. (See Dunbar, Howard W., assignor.)
- Western Electric Company. (See Dunham, Bert G., assignor.)
- Western Electric Company. (See Dyson, Alfred H., assignor.)
- Western Electric Company. (See Egerton, Henry C., assignor.)
- Western Electric Company. (See Field, Joseph C., assignor.)
- Western Electric Company. (See Forsberg, Oscar F., assignor.)
- Western Electric Company. (See Glunt, Omer M., assignor.)
- Western Electric Company. (See Goodrum, Charles L., assignor.)
- Western Electric Company. (See Hague, Charles E., assignor.)
- Western Electric Company. (See Heising, Raymond A., assignor.)
- Western Electric Company. (See Hill, Ralph N., assignor.)
- Western Electric Company. (See Hinrichsen, Edward E., assignor.)
- Western Electric Company. (See Hoffmann, William F., assignor.)
- Western Electric Company. (See Hosford, William F., assignor.)
- Western Electric Company. (See Howk, Clarence L., assignor.)
- Western Electric Company. (See Ireland and Gilson, assignors.)
- Western Electric Company. (See Johnson, Kenneth S., assignor.)
- Western Electric Company. (See Kent, Stanley B., assignor.)
- Western Electric Company. (See Koenig, David, assignor.)
- Western Electric Company. (See Kropp, John A., assignor.)
- Western Electric Company. (See Lorimer, George W., assignor.)
- Western Electric Company. (See Lundell, Alben E., assignor.)
- Western Electric Company. (See Lundquist, Frank A., assignor.)
- Western Electric Company. (See Lundquist and Brownrigg, assignors.)
- Western Electric Company. (See Matthies, William H., assignor.)
- Western Electric Company. (See McBerty, Frank R., assignor.)
- Western Electric Company. (See McBerty and Adams, assignors.)
- Western Electric Company. (See McBerty and Koenig, assignors.)
- Western Electric Company. (See McBerty and Polinkowsky, assignors.)
- Western Electric Company. (See McQuarrie, James L., assignor.)
- Western Electric Company. (See Merritt, Benjamin F., assignor.)
- Western Electric Company. (See Mueller, Emil C. G., assignor.)
- Western Electric Company. (See Nicolson, Alexander M., assignor.)
- Western Electric Company. (See Palmer, Joel C. R., assignor.)
- Western Electric Company. (See Pape, Herman G., assignor.)
- Western Electric Company. (See Pfannenstiehl and Adams, assignors.)
- Western Electric Company. (See Polinkowsky, Lipa, assignor.)
- Western Electric Company. (See Pruessman, Albert, assignor.)
- Western Electric Company. (See Quass, Ralph L., assignor.)
- Western Electric Company. (See Reeves and Lundell, assignors.)

Alphabetical list of patentees—Continued.

- Western Electric Company. (See Reynolds, John N., assignor.)
 Western Electric Company. (See Reynolds and Baldwin, assignors.)
 Western Electric Company. (See Roberts, John G., assignor.)
 Western Electric Company. (See Shann, Oscar A., assignor.)
 Western Electric Company. (See Shreeve, Herbert E., assignor.)
 Western Electric Company. (See Smith, William F., assignor.)
 Western Electric Company. (See Stoll, Clarence G., assignor.)
 Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
 Western Electric Company. (See Van der Bijl and Nicolson, assignors.)
 Western Electric Company. (See Wier, Harry B., assignor.)
 Western Electric Company. (See Wilbur, Ray S., assignor.)
 Western Electric Company. (See Wotton, James A., assignor.)
 Western Electric Company. (See Young, Frederick V., assignor.)
 Western Furniture and Manufacturing Company. (See Kohn, Koby, assignor.)
 Western Implement Company. (See Neuens, Michael W., assignor.)
 Western Iron & Foundry Co., The. (See Moser, Vern I., assignor.)
 Western Motor Appliance Company. (See McCray, Harold E., assignor.)
 Western Pattern & Manufacturing Company. (See Kelley, Roy W., assignor.)
 Western Pipe & Steel Company of California. (See Claborn, Alexander, assignor.)
 Western Union Telegraph Company, The. (See Clokey, Allison A., assignor.)
 Western Union Telegraph Company, The. (See Finn, William, assignor.)
 Western Wheeled Scraper Company. (See McKnight, Thomas R., assignor.)
 Western Wheeled Scraper Company. (See Rhodes, Jay B., assignor.)
 Western Wire Products Company. (See Young, Ira J., assignor.)
 Westfall, David, Canajoharie, N. Y. Turbine. No. 1,136,745; Apr. 20; Gaz. vol. 213; p. 1026.
 Westfield, Herman J., Princeton, Wis. Mail-cabinet. No. 1,142,865; June 15; Gaz. vol. 215; p. 699.
 Westinghouse Air Brake Company, The. (See Cady, William M., assignor.)
 Westinghouse Air Brake Company, The. (See Cloud, John W., assignor.)
 Westinghouse Air Brake Company, The. (See Dewson, Edward H., assignor.)
 Westinghouse Air Brake Company, The. (See Dewson and Turner, assignors.)
 Westinghouse Air Brake Company, The. (See Donovan, Patrick H., assignor.)
 Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)
 Westinghouse Air Brake Company, The. (See Doyle, James S., assignor.)
 Westinghouse Air Brake Company, The. (See Doyle and Hedley, assignors.)
 Westinghouse Air Brake Company, The. (See Ellwood, Thomas B., assignor.)
 Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
 Westinghouse Air Brake Company, The. (See Hill, Ernest, assignor.)
 Westinghouse Air Brake Company, The. (See Hume, John, assignor.)
 Westinghouse Air Brake Company, The. (See Liebau, Richard, assignor.)
 Westinghouse Air Brake Company. (See Loudenbeck, Harry C., assignor.)
 Westinghouse Air Brake Company, The. (See Nash, Charles J., assignor.)
 Westinghouse Air Brake Company, The. (See Newell, Edward W., assignor.)
 Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
 Westinghouse Air Brake Company, The. (See Turner and Donovan, assignors.)
 Westinghouse Air Brake Company, The. (See Westinghouse, George, assignor.)
 Westinghouse Air Brake Company, The. (See Whitney, Frank H., assignor.)
 Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
 Westinghouse Air Spring Company. (See Green, Jonathan S., assignor.)
 Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
 Westinghouse Automatic Air & Steam Coupler Company. (See Adreon, Robert E., assignor.)
 Westinghouse Automatic Air & Steam Coupler Company. (See Wappell, Morris, assignor.)
 Westinghouse Brake Company, The. (See Cross, James W., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Abtmeyer, Theodore, assignor.)
 Westinghouse Electric and Manufacturing Company. (See Adams, James L., Jr., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Albrecht, John H., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Anderson, John, assignor.)
 Westinghouse Electric and Manufacturing Company. (See Andrew, Frederick W., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Armstrong, Stanley L., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Aspinwall, Louis M., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Auel and Burns, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Austin and Mahoney, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Bakken, Andrew H., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Barnes, Wilfred, Jr., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Beach, Howard L., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Brown, Harold W., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Carpenter, David E., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Chernyshoff, Alexander, assignor.)
 Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Colby, Ora A., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Conrad, Frank, assignor.)
 Westinghouse Electric and Manufacturing Company. (See Cook, John, assignor.)
 Westinghouse Electric and Manufacturing Company. (See Cooper, William, assignor.)
 Westinghouse Electric and Manufacturing Company. (See Copley, Almon W., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Dann, Walter M., assignor.)
 Westinghouse Electric & Manufacturing Company. (See Davis, Charles H., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Davis, David C., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Davis, Joseph L., assignor.)
 Westinghouse Electric & Manufacturing Company. (See Davis and Aalborg, assignors.)
 Westinghouse Electric & Manufacturing Company. (See Davis and Conrad, assignors.)
 Westinghouse Electric & Manufacturing Company. (See De Wolf, Roger D., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Eaton, George M., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Eaton and Farnsworth, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Eby, Earl E., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Eckmann and Wagner, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Edgecomb, Henry R., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Farnsworth, Sidney W., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Farnsworth and Schuster, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Farnsworth, Carpenter, and Frost, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Farnsworth, Carpenter, Frost, Rose, and Sipher, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Field, Allan B., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Frost, Leslie E., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Garcelon, George H., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Griffin, George B., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Hadaway, William S., Jr., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Hadaway and Rose, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Haefely, Emil, assignor.)
 Westinghouse Electric and Manufacturing Company. (See Hall, Arthur J., assignor.)
 Westinghouse Electric and Manufacturing Company. (See Hall and Riley, assignors.)
 Westinghouse Electric and Manufacturing Company. (See Hallock, Fletcher D., assignor.)

Alphabetical list of patentees—Continued.

- Westinghouse Electric and Manufacturing Company. (See Hanf, Edward A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Harlow and Faye-Hansen, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Harris, Ford W., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
- Westinghouse Electric and Manufacturing Co. (See Hiss, Fielder I., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Hiss, Fielder I., Jr., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Hoock, Theodore, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Jackson, Rav P., assignor.)
- Westinghouse Electric and Manufacturing Company. (See James, Henry D., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Kingsbury, Albert, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Kintner, Samuel M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kunkel, Fred R., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Kusebauch, Anton K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lamme, Benjamin G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Lamme and Yardley, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Lehr, Edwin, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Lewis, Harry A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Lincoln, Paul M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Little, George M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Little and Gudge, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Longmore, William J., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Lum, Walter O., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Mahoney, Joseph N., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Martin, Frederick S., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Mateer, Jesse E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Miller, Frederick H., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Mills, Chester B., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Moore, Ralph W. E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Moul, Herbert E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Newcomb, Harold A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Nikonow, John P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Psilander, Charles A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Randall, Karl C., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Randall, Farnsworth, and Fortescue, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Reed, Emerson G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Reynders, Arthur B., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Riley, Lynn G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Rose, Edward E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Rowe, Bertrand P., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Rypinski, Albert B., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Sakai, Yasudiro, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Sanborn, John R., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Sandfield, Michael, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schaaake, William, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Schairer, Otto S., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Schebe, Harold M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Schultz and Holt, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Sieber, Ferdinand, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Simmon and Hall, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Skinner, Charles E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Soule, Herbert C., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Starker, Charles W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Steen, Harry A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Storer, Norman W., assignor.) (Reissue.)
- Westinghouse Electric and Manufacturing Company. (See Storer and Hall, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Thomas, Phillips, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Trood, Samuel, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Tucker, Curtis A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Varley, Thomas W., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Varney, Theodore, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Walker, Miles, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Walton, Albert, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Webster, John E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Wehner, Benjamin, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Wirth, John A., assignor.)
- Westinghouse Gear and Dynamometer Company. (See Westinghouse, George, assignor.)
- Westinghouse, George, deceased, Pittsburgh, Pa.; H. H. Westinghouse, C. A. Terry, and W. D. Uptegraff, executors. Combustion-engine. No. 1,148,206; July 27; *Gaz.* vol. 216; p. 1200.
- Westinghouse, George, deceased, Pittsburgh, Pa.; H. H. Westinghouse, C. A. Terry, and W. D. Uptegraff, executors. Transmission-gearing. No. 1,149,881; Aug. 10; *Gaz.* vol. 217; p. 602.
- Westinghouse, George, deceased, Pittsburgh, Pa.; H. H. Westinghouse, C. A. Terry, and W. D. Uptegraff, executors. Internal-combustion engine. No. 1,161,095; Nov. 23; *Gaz.* vol. 220; p. 1076.
- Westinghouse, George, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Combined automatic train-pipe and car coupling mechanism. No. 1,129,323; Feb. 23; *Gaz.* vol. 211; p. 1055.
- Westinghouse, George, Pittsburgh, Pa., assignor to The Westinghouse Gear and Dynamometer Company. Reduction-gearing. No. 1,136,072; Apr. 20; *Gaz.* vol. 213; p. 786.
- Westinghouse, George, Pittsburgh, Pa., assignor to The Westinghouse Gear and Dynamometer Company. Reduction-gearing. No. 1,136,189; Apr. 20; *Gaz.* vol. 213; p. 827.
- Westinghouse, George, Pittsburgh, assignor to The Westinghouse Machine Company, East Pittsburgh, Pa. Marine turbine. No. 1,142,069; June 8; *Gaz.* vol. 215; p. 382.
- Westinghouse, H. H. (See Davis, Isaac H., assignor.)
- Westinghouse, Henry H., *et al.* (See Davis, Isaac H., assignor.)
- Westinghouse, Henry H., *et al.*, executors. (See Westinghouse, George.)
- Westinghouse, Henry H., New York, N. Y. Friction draft-gear. No. 1,136,073; Apr. 20; *Gaz.* vol. 213; p. 786.
- Westinghouse, Herman H. (See Goodspeed, Leland F., assignor.)
- Westinghouse Lamp Company. (See Atwood, George F., assignor.)
- Westinghouse Lamp Company. (See Beadle, George W., assignor.)
- Westinghouse Lamp Company. (See Campbell, Percy A., assignor.)
- Westinghouse Lamp Company. (See Henderson, Robert H., assignor.)
- Westinghouse Lamp Company. (See Jackson, Henry W., assignor.)
- Westinghouse Lamp Company. (See Knight, Arthur S., assignor.)
- Westinghouse Lamp Company. (See Madden, Harry D., assignor.)
- Westinghouse Lamp Company. (See Scholl, George P., assignor.)
- Westinghouse Lamp Company. (See Scott, Charles F., assignor.)
- Westinghouse Machine Company, The. (See Ehrhart, Raymond N., assignor.)
- Westinghouse Machine Company, The. (See Hierr, Herbert T., assignor.)
- Westinghouse Machine Company, The. (See Hodgkinson, Francis, assignor.)
- Westinghouse Machine Company. (See Kando, Kalman von, assignor.)
- Westinghouse Machine Company, The. (See Ostergren, Oscar P., assignor.)
- Westinghouse Machine Company, The. (See Schmidt, Henry F., assignor.)

Alphabetical list of patentees—Continued.

- Westinghouse Machine Company, The. (See Seaver, Edward, Jr., assignor.)
- Westinghouse Machine Company, The. (See Westinghouse, George, assignor.)
- Westlake, Albert. (See Bradley, Josiah, assignor.)
- Westlake, Albert, New York, N. Y. Machine for selecting, treating, and applying closure-seals. No. 1,137,820; May 4; Gaz. vol. 214; p. 34.
- Westlake, Albert, and P. Poetschke, New York, N. Y.; said Poetschke assignor to said Westlake. Manufacture of fibrous caps for bottles and other containers. No. 1,160,478; Nov. 16; Gaz. vol. 220; p. 812.
- Westlake, Arthur G., London, Ontario, Canada. Shoetongue fastener. No. 1,129,149; Feb. 23; Gaz. vol. 211; p. 995.
- Westlake, Charles T. (See Crown, Westlake, and Shallenberger.)
- Westlake, Charles T. (See Frede and Westlake.)
- Westlake, Charles T., assignor to Flory Carry Iron Company, St. Louis, Mo. Draw-bar carry-iron. No. 1,125,420; Jan. 19; Gaz. vol. 210; p. 863.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Pilot-beam. No. 1,127,331; Feb. 2; Gaz. vol. 211; p. 232.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck for locomotives. No. 1,129,930; Mar. 2; Gaz. vol. 212; p. 34.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Chafing-plate. No. 1,154,223; Sept. 21; Gaz. vol. 218; p. 726.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Making locomotive-pilots and the like. No. 1,163,293; Dec. 7; Gaz. vol. 221; p. 195.
- Westlake, Charles T., and C. F. Frede, assignors to Commonwealth Steel Company, St. Louis, Mo. Railway-car underframe. No. 1,146,220; July 13; Gaz. vol. 216; p. 456.
- Westlake, Charles T., and C. S. Shallenberger, assignors to Flory Carry Iron Company, St. Louis, Mo. Draw-bar carry-iron. No. 1,157,070; Oct. 19; Gaz. vol. 219; p. 664.
- Westlake Machine Company, The. (See Kadow, August, assignor.)
- Westlin, Eror E., Arlington, assignor to Otis Elevator Company, Jersey City, N. J. Door-lock. No. 1,132,755; Mar. 23; Gaz. vol. 212; p. 1147.
- Westlin, Carl T. (See Brown and Westlin.)
- Westlund, Carl G., Worcester, Mass. Automatic window-sash lock. No. 1,127,835; Feb. 9; Gaz. vol. 211; p. 452.
- Westman, Emil, assignor of one-half to T. S. Amidon, Minneapolis, Minn. Valve-grinding device. No. 1,158,758; Nov. 2; Gaz. vol. 220; p. 122.
- Westman, Wilhelm, assignor of one-half to E. Williams, Los Angeles, Cal. Printing-frame. No. 1,144,014; June 22; Gaz. vol. 215; p. 1123.
- Westminster Carburettor Company, The. (See Biddlecombe, Frank G. L., assignor.)
- Westmoreland, Andrew J. (See King, William E., assignor.)
- Westmoreland, Andrew J., assignor of one-half to C. A. Bridges, Richmond, Va. Oiling device for an axle-spindle. No. 1,149,104; Aug. 3; Gaz. vol. 217; p. 216.
- Westmoreland, Crawford T., High Point, N. C., assignor to Myrtle Desk Company. Locking device for desks and the like. No. 1,139,939; May 18; Gaz. vol. 214; p. 853.
- Westmoreland, Crawford T., High Point, N. C., assignor to Myrtle Desk Company. Locking device for desks and the like. No. 1,139,940; May 18; Gaz. vol. 214; p. 854.
- Weston, Arthur H., Baltimore, Md. Underframe-reinforcement. No. 1,156,259; Oct. 12; Gaz. vol. 219; p. 348.
- Weston, Burt H. (See Gordon and Weston.)
- Weston, Calvin H., Tyrone, Pa. Physician's treating-table. No. 1,138,030; May 4; Gaz. vol. 214; p. 107.
- Weston, Clarence B. (See King and Weston.)
- Weston, Clarence B. (See King, Weston, and Holmes.)
- Weston, Clarence B. (See King, Weston, Roush, and Holmes.)
- Weston, Clarence B., Marion, Ohio, assignor to Ball Engine Company, Erie, Pa. Engine and friction-clutch control. No. 1,154,149; Sept. 21; Gaz. vol. 218; p. 701.
- Weston, Clarence B., Marion, Ohio, assignor to Ball Engine Company. Steam-supply system for a plurality of engines. No. 1,161,429; Nov. 23; Gaz. vol. 220; p. 1198.
- Weston, David B., Sharon, and M. H. Barker, Boston, Mass. Centrifugal separator. No. 1,132,814; Mar. 23; Gaz. vol. 212; p. 1169.
- Weston, Folke W., New York, assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Plate-holding device. No. 1,132,642; Mar. 23; Gaz. vol. 212; p. 1105.
- Weston, Frederick H., Schenectady, N. Y., assignor to General Electric Company. Illuminating apparatus. No. 1,159,306; Nov. 2; Gaz. vol. 220; p. 311.
- Weston, Leroy A., Adams, Mass. Joint-packing device for sewer-pipe. No. 1,163,726; Dec. 14; Gaz. vol. 221; p. 393.
- Weston, Philip, Dalton, Mass. Apparatus for producing thin sections in paper. No. 1,155,853; Oct. 5; Gaz. vol. 219; p. 135.
- Weston, Thomas I., Columbia, S. C. Pipe-joint. No. 1,132,137; Mar. 16; Gaz. vol. 212; p. 872.
- Weston, William S., Columbia, S. C. Crusher-shaft nut. No. 1,143,005; June 15; Gaz. vol. 215; p. 749.
- Westrich, Alphons L., Tooele, Utah. Teiltale bottle. No. 1,130,867; Mar. 9; Gaz. vol. 212; p. 391.
- Westwood, John T., assignor of one-fourth to J. B. Somerville and one-fourth to G. C. Beneke, Wheeling, W. Va. Wheel-brake. No. 1,138,707; May 11; Gaz. vol. 214; p. 383.
- Wetcarbonizing Limited. (See Ekenberg, Martin, assignor.)
- Wetcarbonizing Limited. (See Rigby, Thomas, assignor.)
- Wetcarbonizing Limited. (See Rigby and Testrup, assignors.)
- Wetcarbonizing Limited. (See Testrup, Rigby, and Söderlund, assignors.)
- Wetcarbonizing Limited. (See Testrup, Adam, Rigby, and Andrew, assignors.)
- Wetcarbonizing Limited. (See Whitaker, James S., assignor.)
- Wetherbee Concentrator Company. (See Wetherbee, Herbert E., assignor.)
- Wetherbee, Herbert E., assignor of one-half to R. F. Grant, Cleveland, Ohio. Apparatus for separating solids from liquids. No. 1,163,875; Dec. 14; Gaz. vol. 221; p. 444.
- Wetherbee, Herbert E., assignor to Wetherbee Concentrator Company, Cleveland, Ohio. Apparatus for separating or classifying ores. No. 1,163,876; Dec. 14; Gaz. vol. 221; p. 445.
- Wetherell, Anson B., Pittsburgh, Pa. Self-filling tire. No. 1,134,361; Apr. 6; Gaz. vol. 213; p. 101.
- Wetherell, Anson B., Pittsburgh, Pa. Rail structure. No. 1,161,273; Nov. 23; Gaz. vol. 220; p. 1142.
- Wetherill Finished Castings Company. (See Wetherill, Samuel P., Jr., assignor.)
- Wetherill, Samuel P., Jr., assignor to Wetherill Finished Castings Company, Philadelphia, Pa. Casting metals. No. 1,150,318; Aug. 17; Gaz. vol. 217; p. 820.
- Weiten, Charles, New York, N. Y. Trolley-harp. No. 1,159,451; Nov. 9; Gaz. vol. 220; p. 396.
- Wetmore, Charles P., and F. A. Niemann, Chicago, Ill., assignors to Comptograph Company. Selective cipher cut-out for adding-machines. No. 1,127,332; Feb. 2; Gaz. vol. 211; p. 232.
- Wetmore, James B., assignor to W. A. Press, Chicago, Ill. Explosive-engine primer. No. 1,128,643; Feb. 16; Gaz. vol. 211; p. 780.
- Wetmore, William O., Washington, D. C. Arch-supporter. No. 1,145,533; July 6; Gaz. vol. 216; p. 195.
- Wetmore, William O., Washington, D. C. Arch-supporter. No. 1,145,534; July 6; Gaz. vol. 216; p. 195.
- Wetsel, Clarence J., Chicopee, Mass. Multiple-spindle drilling-machine. No. 1,135,974; Apr. 13; Gaz. vol. 213; p. 712.
- Wetsel, Edward S., Binghamton, N. Y. Egg-case. No. 1,135,564; Apr. 13; Gaz. vol. 213; p. 568.
- Wettengel, John H., Jr., Rochester, N. Y. Chair-seat. No. 1,147,287; July 20; Gaz. vol. 216; p. 848.
- Wetterauer, Frank, Erie, Pa., and G. A. Wegner, Rochester, N. Y. Apparatus for desiccating human corpses. No. 1,127,140; Feb. 2; Gaz. vol. 211; p. 168.
- Wetterberg, Ferdinand, Perth Amboy, N. J. Can-nozzle plug-seal. No. 1,124,083; Jan. 5; Gaz. vol. 210; p. 300.
- Wettergreen, John C., Malden, Mass. Joint for motor-car springs and other uses. No. 1,148,880; Aug. 3; Gaz. vol. 217; p. 140.
- Wetterhahn, Edward, Granada Park, Cal. Carburetor. No. 1,155,457; Oct. 5; Gaz. vol. 219; p. 46.
- Wetterhold, George, Wichita, Kans. Bed-spring. No. 1,132,892; Mar. 23; Gaz. vol. 212; p. 1196.
- Wetteroth, Frank. (See Schultz and Wetteroth.)
- Wetzel, Edward F. (See Bryan, Frank O., assignor.)
- Wetzel, Frederick, assignor of forty one-hundredths to J. K. M. Waibel, New York, N. Y. Train control. No. 1,133,900; Mar. 30; Gaz. vol. 212; p. 1594.
- Wetzel, Selton M., Port Orchard, Wash. Motor-vehicle-moving attachment. No. 1,138,915; May 11; Gaz. vol. 214; p. 457.
- Wetzig, Alfred. (See Breslove and Wetzig.)
- Wetzler, Bernhard. (See Henriquez, Alfons von, assignor.)
- Wetzstein, Bruno. (See Schoenfeld and Wetzstein.)
- Weyer, Fritz, and K. Maier, assignors to Union Special-Maschinenfabrik G. m. b. H., Stuttgart, Germany. Mending or repairing sacks and the like and apparatus therefor. No. 1,145,639; July 6; Gaz. vol. 216; p. 232.
- Wexler, Isidore, Minneapolis, Minn. Desk-pad calendar. No. 1,129,931; Mar. 2; Gaz. vol. 212; p. 34.
- Weyden, William, Lore, assignor to Chester A. White, Dubuque, Iowa. Automobile. No. 1,166,288; Dec. 28; Gaz. vol. 221; p. 1371.
- Weyel, Rudolf, Bürrigerheide, assignor, by mesne assignments, to Rheinische Dynamitfabrik, Cologne, Germany. Facilitating the separation of nitroglycerin. No. 1,138,916; May 11; Gaz. vol. 214; p. 457.
- Weyel, Rudolf, Bürrigerheide, assignor, by mesne assignments, to Rheinische Dynamitfabrik, Cologne, Germany. Facilitating the separation of nitroglycerin. No. 1,138,917; May 11; Gaz. vol. 214; p. 458.

- Weyl, Julius S., Elkins Park, Pa. Finishing the surface of coated calendered printing-paper. No. 1,125,232; Jan. 19; Gaz. vol. 210; p. 795.
- Weyland, Jones A., Djursholm, Sweden. Adjustable regulating means for explosion and internal-combustion engines. No. 1,129,616; Feb. 23; Gaz. vol. 211; p. 1159.
- Weymann, Peter, Melrose, Minn. Feeding device for corn-shredders. No. 1,141,736; June 1; Gaz. vol. 215; p. 230.
- Whale, Charles A., and J. H. Black, Portland, Oreg. Resilient wheel. No. 1,157,272; Oct. 19; Gaz. vol. 219; p. 737.
- Whalen, Carl W., Millinocket, Me. Ice-cream-cone bag. No. 1,158,349; Oct. 26; Gaz. vol. 219; p. 1175.
- Whalen, Michael H., New York, N. Y. Spitttoon. No. 1,160,553; Nov. 16; Gaz. vol. 220; p. 839.
- Whalen, Patrick F., and P. J. Burke, Portland, Oreg. Shirt-folding table. No. 1,125,785; Jan. 19; Gaz. vol. 210; p. 993.
- Whalen, Richard F., and H. D. Palmer, Topeka, Kans. Stay-bolt chuck. No. 1,127,836; Feb. 9; Gaz. vol. 211; p. 452.
- Whalen, Thomas J., New Brunswick, assignor, by mesne assignments, to H. M. Marble, Newark, N. J. Tire-making machine. No. 1,131,760; Mar. 16; Gaz. vol. 212; p. 735.
- Whaler, Herbert T., Miami, Fla. Splice for lead-armored cables. No. 1,142,213; June 8; Gaz. vol. 215; p. 433.
- Whaley, Marion S. (See Norton and Whaley.)
- Whall, James, Christchurch, New Zealand. Lifting-jack. No. 1,123,634; Jan. 5; Gaz. vol. 210; p. 149.
- Whalley, Enoch, Williamansett, Mass. Truck. No. 1,138,337; May 4; Gaz. vol. 214; p. 217.
- Whartenby, Edwin F., Philadelphia, Pa. Vehicle-body inclosure. No. 1,163,727; Dec. 14; Gaz. vol. 221; p. 393.
- Whartnaby, Joseph, and R. Clarke, Philadelphia, Pa. Wagon for coal. No. 1,124,825; Jan. 12; Gaz. vol. 210; p. 615.
- Wharton, Astley W., Philadelphia, Pa. Economizer for internal-combustion engines. No. 1,128,830; Feb. 16; Gaz. vol. 211; p. 846.
- Wharton, Sidney L., Lexington, Okla. Window-shade roller. No. 1,128,204; Feb. 9; Gaz. vol. 211; p. 580.
- Wheale, George, Meadowbrook, Pa. Fused test clamp-insulator. No. 1,144,672; June 29; Gaz. vol. 215; p. 1380.
- Wheary, George H., Racine, Wis. Trunk-fitting. No. 1,127,705; Feb. 9; Gaz. vol. 211; p. 403.
- Wheary, George H., Racine, Wis. Automatic locking means for trunks. No. 1,134,175; Apr. 6; Gaz. vol. 213; p. 33.
- Wheary, George H., Racine, Wis. Trunk-hinge fixture. No. 1,137,940; May 4; Gaz. vol. 214; p. 76.
- Wheary, George H., Racine, Wis. Wardrobe-trunk. No. 1,157,652; Oct. 19; Gaz. vol. 219; p. 866.
- Wheary, George H., Racine, Wis. Wardrobe-trunk. No. 1,158,411; Oct. 26; Gaz. vol. 219; p. 1198.
- Wheary, George H., Racine, Wis. Trunk-locking means. No. 1,158,412; Oct. 26; Gaz. vol. 219; p. 1199.
- Wheary, George H., Racine, Wis. Trunk-collar construction. No. 1,162,715; Nov. 30; Gaz. vol. 220; p. 1634.
- Wheary, George H., Racine, Wis. Trunk-tray construction. No. 1,162,716; Nov. 30; Gaz. vol. 220; p. 1685.
- Wheary, George H., Racine, Wis. Trunk. No. 1,166,418; Dec. 28; Gaz. vol. 221; p. 1418.
- Wheary, George H., assignor to The Hartmann Trunk Company, Racine, Wis. Convertible trunk. No. 1,125,421; Jan. 19; Gaz. vol. 210; p. 864.
- Wheary, George H., assignor to The Hartmann Trunk Company, Racine, Wis. Convertible trunk. No. 1,139,317; May 11; Gaz. vol. 214; p. 596.
- Wheary, George H., assignor to The Hartmann Trunk Company, Racine, Wis. Clothes-retainer bar for trunks. No. 1,161,174; Nov. 23; Gaz. vol. 220; p. 1105.
- Wheatley, Samuel N., Noblesville, Ind. Tire-bolting appliance. No. 1,165,476; Dec. 28; Gaz. vol. 221; p. 1082.
- Wheatley, William A., Middletown, Conn. Educational record-book. No. 1,158,606; Nov. 2; Gaz. vol. 220; p. 70.
- Wheaton, Abram W., Newark, N. J. Collapsible receptacle. No. 1,145,953; July 13; Gaz. vol. 216; p. 361.
- Wheaton, Carl M., deceased, Newton, G. H. Wheaton, administratrix, assignor to J. C. Bassett, Boston, Mass. Means for conducting submarine warfare. No. 1,131,761; Mar. 16; Gaz. vol. 212; p. 735.
- Wheaton, Grace H., administratrix. (See Wheaton, Carl M.)
- Wheel Truing Brake Shoe Company. (See Griffin and Allen, assignors.)
- Wheeldon, Arthur L., assignor to Dean's Rag Book Company, Limited, London, England. Printed sheet for making up stuffed dolls or the like. No. 1,135,746; Apr. 13; Gaz. vol. 213; p. 632.
- Wheeler, Albert H., Worcester, Mass. Record-book. No. 1,126,165; Jan. 26; Gaz. vol. 210; p. 1161.
- Wheeler, Charles H. H., et al. (See McCoy, Elijah, assignor.)
- Wheeler, Clyde E., Gull Lake, Saskatchewan, Canada. Attachment to harness. No. 1,139,829; May 18; Gaz. vol. 214; p. 815.
- Wheeler Condenser and Engineering Company. (See Christie, Evi W., assignor.)
- Wheeler, Edwin O., assignor to The Springfield Auto Detector Company, Inc., Springfield, Ohio. Attachment for headlights for automobiles. No. 1,161,175; Nov. 23; Gaz. vol. 220; p. 1106.
- Wheeler, Frank G., Appleton, assignor of one-half to Kimberly-Clark Company, Neenah, Wis. Cathode for electrolytic cells. No. 1,152,772; Sept. 7; Gaz. vol. 218; p. 144.
- Wheeler, Frank H. (See Schebler, George M., assignor.)
- Wheeler, Gardner E. (See Bulley and Wheeler.)
- Wheeler, George A., deceased, New York, N. Y.; H. M. Wheeler, administrator. Moving stairway. No. 1,130,555; Mar. 2; Gaz. vol. 212; p. 251.
- Wheeler, George A., deceased, Brooklyn, N. Y.; H. M. Wheeler, administrator. Moving stairway. No. 1,130,556; Mar. 2; Gaz. vol. 212; p. 251.
- Wheeler, George F., Beloit, Wis. Forming and igniting explosive charges in internal-combustion engines. No. 1,160,480; Nov. 16; Gaz. vol. 220; p. 813.
- Wheeler, George M. (See Thornton and Wheeler.)
- Wheeler, H. M., administrator. (See Wheeler, George A.)
- Wheeler, Henry G., Arlington, Mass. Soil-pipe connection for water-closets. No. 1,164,771; Dec. 21; Gaz. vol. 221; p. 797.
- Wheeler, Ira R., Baltimore, Md., assignor of one-half to J. C. Allen, Northampton, Mass. Massaging device. No. 1,153,409; Sept. 14; Gaz. vol. 218; p. 409.
- Wheeler, J. A. (See Walker, William T., assignor.)
- Wheeler, James A. (See Hargrave and Wheeler.)
- Wheeler, James A., Somerset county, N. J., assignor to W. T. Elkinton, Philadelphia, Pa. Shingle. No. 1,123,449; Jan. 5; Gaz. vol. 210; p. 87.
- Wheeler, James A., Somerset county, N. J., assignor to W. T. Elkinton, Philadelphia, Pa. Fireproof door. No. 1,123,450; Jan. 5; Gaz. vol. 210; p. 87.
- Wheeler, James A., Somerset county, N. J., assignor to W. T. Elkinton, Philadelphia, Pa. Fireproof door. No. 1,123,451; Jan. 5; Gaz. vol. 210; p. 87.
- Wheeler, John. (See Hawes and Wheeler.)
- Wheeler, John, Cripple Creek, Colo. Gage. No. 1,151,141; Aug. 24; Gaz. vol. 217; p. 1160.
- Wheeler, John L., Napa, Cal. Speed controller and indicator. No. 1,134,026; Mar. 30; Gaz. vol. 212; p. 1634.
- Wheeler, Lewis R., assignor, by mesne assignments, to Modern Appliance Company, Los Angeles, Cal. Machine-tool. No. 1,144,744; June 29; Gaz. vol. 215; p. 1406.
- Wheeler, Merritt P., Pawhuska, Okla. Rail-fastener. No. 1,163,728; Dec. 14; Gaz. vol. 221; p. 393.
- Wheeler, Orrin A., assignor of one-third to E. D. Loewenthal and one-third to B. Loewenthal, Chicago, Ill. Reclaiming rubber. No. 1,135,236; Apr. 13; Gaz. vol. 213; p. 452.
- Wheeler, Paris H., Sugar Loaf, N. Y. Guard-plate for sharpening pencils. No. 1,150,797; Aug. 17; Gaz. vol. 217; p. 985.
- Wheeler, Plumer, Alton, Ill., assignor to The Union Cap & Fuse Company, Cleveland, Ohio. Fuse-cap package. No. 1,151,076; Aug. 24; Gaz. vol. 217; p. 1138.
- Wheeler, Ralph W., Akron, Ohio. Patch for tires. No. 1,159,143; Nov. 2; Gaz. vol. 220; p. 253.
- Wheeler, Richard, San Francisco, assignor, by mesne assignments, of seventy-six one-hundredths to H. W. Regan, V. O. Davis, and S. D. Merk, Burlingame, Cal. Adjustable fruit-cell. No. 1,153,365; Sept. 14; Gaz. vol. 218; p. 393.
- Wheeler, Seth, Castleton, N. Y. Dispensing-cabinet. No. 1,161,561; Nov. 23; Gaz. vol. 220; p. 1244.
- Wheeler, Thomas E. C., assignor to C. Kearton, London, England. Cinematograph-camera. No. 1,163,493; Dec. 7; Gaz. vol. 221; p. 264.
- Wheeler, Train, Downing, Mo. Post-hole-boring apparatus. No. 1,143,872; June 22; Gaz. vol. 215; p. 1074.
- Wheeler, Wellington B., Long Beach, assignor of one-half to R. S. Gilman, San Diego, Cal. Advertising device. No. 1,144,673; June 29; Gaz. vol. 215; p. 1380.
- Wheeler, William, Concord, Mass. Filter. No. 1,151,313; Aug. 24; Gaz. vol. 217; p. 1219.
- Wheeling Can Company. (See Mathisen, Ole M., assignor.)
- Wheeling Corrugating Company. (See Hazeltine, Reginald, assignor.)
- Wheeling Stamping Company. (See Edwards, Alonzo L., assignor.)
- Wheeling Steel Casting Company. (See Bagley, Joseph P., assignor.)
- Wheelock, Edwin M., Winona, Minn. Traction-wheel for motor-propelled vehicles. No. 1,142,470; June 8; Gaz. vol. 215; p. 525.
- Wheelock, Louis W., Wyncote, Pa. Candy-box. No. 1,142,131; June 8; Gaz. vol. 215; p. 405.
- Wheelock, Lydia K., New York, N. Y. Hat-pattern. No. 1,139,318; May 11; Gaz. vol. 214; p. 596.
- Whelan, Charles P., Syracuse, N. Y. Pneumatic wrench for applying and removing flush caps for flexible stays. No. 1,164,561; Dec. 14; Gaz. vol. 221; p. 683.
- Whelan, Thomas F., assignor to Savady Rack Company, St. Louis, Mo. Shoe heating and vulcanizing apparatus. No. 1,157,477; Oct. 19; Gaz. vol. 219; p. 809.

Alphabetical list of patentees—Continued.

- Whelan, Thomas F., assignor to Savoday Rack Company, St. Louis, Mo. Drying shoes. No. 1,157,478; Oct. 19; Gaz. vol. 219; p. 809.
- Whelan, Thomas F., assignor to Savoday Rack Company, St. Louis, Mo. Apparatus for treating unfinished shoes. No. 1,157,479; Oct. 19; Gaz. vol. 219; p. 809.
- Whelan, Thomas F., East Orange, N. J., assignor to Savoday Rack Company, St. Louis, Mo. Treating shoes. No. 1,157,480; Oct. 19; Gaz. vol. 219; p. 810.
- Whelan, Thomas F., Kirkwood, assignor to Savoday Rack Company, St. Louis, Mo. Device for treating shoes. No. 1,157,482; Oct. 19; Gaz. vol. 219; p. 811.
- Whelan, Thomas F., Newark, N. J., assignor to Savoday Rack Company, St. Louis, Mo. Apparatus for treating shoes. No. 1,157,483; Oct. 19; Gaz. vol. 219; p. 811.
- Whelen, James R., Denver, Colo. Means for operating fish-traps. No. 1,164,898; Dec. 21; Gaz. vol. 221; p. 841.
- Whelpley, Charles W. (See McGinnis, Joseph P., assignor.)
- Whelpley, Frederick W., Greenfield, Mass. Die-stock. No. 1,158,016; Oct. 26; Gaz. vol. 219; p. 1059.
- Whetham, John W., Midvale, N. J. Headlight or lamp for vehicles. No. 1,146,041; July 13; Gaz. vol. 216; p. 394.
- Whichello, Norman, and H. Sawyer, Muskegon, Mich. Transit device. No. 1,154,678; Sept. 28; Gaz. vol. 218; p. 913.
- Whidden, Arthur D., Elyria, Ohio. Engine-valve. No. 1,127,837; Feb. 9; Gaz. vol. 211; p. 453.
- Whidden, Arthur D., Elyria, Ohio. Packing-ring. No. 1,139,004; May 11; Gaz. vol. 214; p. 490.
- Whidden, Mamie P., Fort Myers, Fla. Life-preserving garment. No. 1,129,932; Mar. 2; Gaz. vol. 212; p. 34.
- Whidden, Renton, *et al.*, receivers. (See McElroy, Patrick J., assignor.)
- Whigelt, George, New York, N. Y. Non-inflammable solvent for paints and the like. No. 1,156,119; Oct. 12; Gaz. vol. 219; p. 302.
- Whigham, Russell H., *et al.* (See Mallett, Charles J., assignor.)
- Whitt, Joseph H., assignor to Lamb Machine Company, Houghton, Wash. Pawl-and-ratchet mechanism. No. 1,165,218; Dec. 21; Gaz. vol. 221; p. 956.
- Whipple, Bayone. (See Huston, Walter, assignor.)
- Whipple, Frank H., Visalia, Cal. Pump. No. 1,132,413; Mar. 16; Gaz. vol. 212; p. 973.
- Whipple, George W. (See Garrison and Whipple.)
- Whipple, Richard G., Chicago, Ill. Automatic train control. No. 1,161,565; Nov. 23; Gaz. vol. 220; p. 1245.
- Whipple, Robert S., Cambridge, England, assignor to The Taylor Instrument Companies, Rochester, N. Y. Radiation-pyrometer. No. 1,125,233; Jan. 19; Gaz. vol. 210; p. 795.
- Whipple, William N., assignor to G. H. Sears, Syracuse, N. Y. Air-propeller. No. 1,131,762; Mar. 16; Gaz. vol. 212; p. 735.
- Whisenant, Marvin B., Hollis, Okla. Machine for raising and lowering well-piping. No. 1,137,101; Apr. 27; Gaz. vol. 213; p. 1190.
- Whistler, David B., and C. W. Ripsch, assignors to The Recording and Computing Machines Company, Dayton, Ohio. Recording and computing machine. No. 1,132,234; Mar. 16; Gaz. vol. 212; p. 908.
- Whitaker, Albert S., *et al.* (See Wefel, William C. H., assignor.)
- Whitaker, Channing, *et al.* (See Lovejoy, Alfred A., assignor.)
- Whitaker, Harriet B., *et al.*, executors. (See Lovejoy, Alfred A.)
- Whitaker, Herbert, Lawrence, Mass. Camera attachment. No. 1,148,346; July 27; Gaz. vol. 216; p. 1251.
- Whitaker, James S., Dumfries, Scotland, assignor to Wet-carbonizing Limited, London, England. Apparatus for removing roots and the like from peat. No. 1,153,661; Sept. 14; Gaz. vol. 218; p. 497.
- Whitaker, John, Philadelphia, Pa. Telephone attachment. No. 1,125,614; Jan. 19; Gaz. vol. 210; p. 930.
- Whitaker, John, North Wales, Pa. Cutting-tool. No. 1,130,649; Mar. 2; Gaz. vol. 212; p. 282.
- Whitaker, John, North Wales, Pa. Hardening the cutting portions of cutting-tools. No. 1,130,650; Mar. 2; Gaz. vol. 212; p. 282.
- Whitaker, Joseph W., Noble, Ill. Door-latch. No. 1,124,983; Jan. 12; Gaz. vol. 210; p. 670.
- Whitaker, Louis P. (See Funk and Whitaker.)
- Whitaker, Louis P., assignor of one-half to V. E. Freeman, New York, N. Y. Mechanism for gripping and carrying grain-stalks. No. 1,163,729; Dec. 14; Gaz. vol. 221; p. 393.
- Whitaker, Milton C., and F. J. Metzger, New York, N. Y. Water-soluble coffee extract. No. 1,123,827; Jan. 5; Gaz. vol. 210; p. 215.
- Whitaker, Milton C., and F. J. Metzger, New York, N. Y. Coffee extract. No. 1,123,828; Jan. 5; Gaz. vol. 210; p. 215.
- Whitaker, Milton C., New York, N. Y., and J. S. Bates, assignors of one-half to Arthur D. Little, Incorporated, Boston, Mass. Treating resinous woods. No. 1,142,922; June 15; Gaz. vol. 215; p. 719.
- Whitaker, Richard, Bradley Beach, N. J., assignor, by mesne assignments, to The Neverslip Manufacturing Company. Overshoe for horses. No. 1,142,765; June 8; Gaz. vol. 215; p. 624.
- Whitaker, Richard, Bradley Beach, N. J., assignor, by mesne assignments, to The Neverslip Manufacturing Company. Overshoe for horses. No. 1,142,766; June 8; Gaz. vol. 215; p. 625.
- Whitaker, Richard, Jr., New Brunswick, N. J., assignor to The Neverslip Manufacturing Company. Manufacturing horseshoe-calks and the like. No. 1,158,877; Nov. 2; Gaz. vol. 220; p. 164.
- Whitaker, Samuel R., *et al.* (See Wefel, William C. H., assignor.)
- Whitaker, Samuel T., *et al.* (See Hale, James H., assignor.)
- Whitaker, Samuel T., assignor of one-third to T. W. Bates and one-third to E. B. Reed, Columbus, Ga. Type-writer cabinet. No. 1,144,882; June 29; Gaz. vol. 215; p. 1454.
- Whitaker, Walter P., Missoula, Mont. Wrench. No. 1,159,631; Nov. 9; Gaz. vol. 220; p. 459.
- Whitall Tatum Company. (See Meinecke, Christian W., assignor.)
- Whitcomb, Alonzo W., Worcester, Mass. Magnetic clutch. No. 1,139,005; May 11; Gaz. vol. 214; p. 490.
- Whitcomb, Carlton L., assignor of one-third to F. E. Whitcomb and one-third to J. A. Holland, Brockton, Mass. Low-cut shoe. No. 1,138,164; May 4; Gaz. vol. 214; p. 156.
- Whitcomb, Clarence E., Richford, Vt. Sap-spout. No. 1,154,679; Sept. 28; Gaz. vol. 218; p. 913.
- Whitcomb, Daniel F., Los Angeles, Cal. Billiard-cue. No. 1,155,980; Oct. 5; Gaz. vol. 219; p. 227.
- Whitcomb, Frank E., *et al.* (See Whitcomb, Carlton L., assignor.)
- Whitcomb, Harris M., Albany, Wis. Quick-release hack-saw-frame. No. 1,146,604; July 13; Gaz. vol. 216; p. 592.
- Whitcomb, James A. (See Richardson, Charles F., assignor.)
- Whitcomb, James A., McAlester, Okla. Type-writing machine. No. 1,126,147; Jan. 26; Gaz. vol. 210; p. 1154.
- Whitcomb, James A., McAlester, Okla. Type-writing machine. No. 1,126,169; Jan. 26; Gaz. vol. 210; p. 1163.
- Whitcomb, James A., McAlester, Okla. Milk-bottle. No. 1,127,141; Feb. 2; Gaz. vol. 211; p. 169.
- Whitcomb, John M., Redwood Falls, Minn. Band-cutter guard. No. 1,158,759; Nov. 2; Gaz. vol. 220; p. 122.
- Whitcomb, Lawrence, Brookline, assignor to The Cork Insert Company, Boston, Mass. Pulley. No. 1,156,120; Oct. 12; Gaz. vol. 219; p. 302.
- Whitcomb, Lee, Elwood, Ill. Pipe-wrench. No. 1,156,260; Oct. 12; Gaz. vol. 219; p. 349.
- Whitcomb, Otis C., Frankfort, Ill. Coin-holder. No. 1,150,914; Aug. 24; Gaz. vol. 217; p. 1083.
- White Adding Machine Company, The. (See Wales, Charles, assignor.)
- White, Albert E., Eau Claire, Wis. Saw-tooth-centering indicator. No. 1,152,996; Sept. 7; Gaz. vol. 218; p. 226.
- White, Almond J., and F. A. Hawley, Chillicothe, Mo. Wear-plate for shoe-heels. No. 1,139,743; May 18; Gaz. vol. 214; p. 784.
- White, Alphonzo, assignor to The Pearsons-Arter Machine Company, Worcester, Mass. Clutch. No. 1,163,386; Dec. 7; Gaz. vol. 221; p. 227.
- White-American Locomotive Sander Company. (See White, William H., assignor.)
- White, Anna, Enid, assignor to W. H. Scott, Oklahoma, Okla. Crochet-needle. No. 1,131,621; Mar. 9; Gaz. vol. 212; p. 651.
- White, Anna R., La Crosse, Wis. Buffer. No. 1,158,350; Oct. 26; Gaz. vol. 219; p. 1175.
- White, Benjamin D., Baltimore, Md. Apparatus for pasteurizing substances. No. 1,144,883; June 29; Gaz. vol. 215; p. 1454.
- White, Carl H., assignor to Nagle Re Blade Knife Company, Newark, N. J. Pocket-knife. No. 1,125,234; Jan. 19; Gaz. vol. 210; p. 795.
- White, Carter, and J. W. Paterson, London, England. Manufacture of white lead. No. 1,163,052; Dec. 7; Gaz. vol. 221; p. 111.
- White, Cecil K., Norfolk, Va. Fender for automobiles. No. 1,139,830; May 18; Gaz. vol. 214; p. 816.
- White, Charles A., assignor of one-third to A. A. Robinett, Jewell, Kans. Boring-machine. No. 1,124,826; Jan. 12; Gaz. vol. 210; p. 615.
- White, Charles A., assignor to Economic Press Delivery Company, Buffalo, N. Y. Sheet-delivery attachment for printing-presses. No. 1,141,856; June 1; Gaz. vol. 215; p. 268.
- White, Charles E., San Francisco, Cal. Internal-combustion pump. No. 1,157,071; Oct. 19; Gaz. vol. 219; p. 665.
- White, Charles E., Wilmette, Ill. Nesting-house for birds. No. 1,166,100; Dec. 28; Gaz. vol. 221; p. 1300.
- White, Charles E., Moline, Ill., assignor to Deere & Mansur Company, Harrow. No. 1,134,654; Apr. 6; Gaz. vol. 213; p. 209.
- White, Charles E., assignor to Deere & Mansur Company, Moline, Ill. Check-row wire mechanism for planters. No. 1,143,674; June 22; Gaz. vol. 215; p. 1007.

- White, Charles E., Moline, Ill., assignor to Deere & Mansur Co. Tool-shifting mechanism for agricultural implements. No. 1,156,384; Oct. 12; Gaz. vol. 219; p. 394.
- White, Charles E., Moline, Ill., assignor to Deere & Mansur Company. Lock for levers and the like. No. 1,165,477; Dec. 28; Gaz. vol. 221; p. 1083.
- White, Charles H., Moline, Ill., assignor to Deere & Mansur Co. Variable-drop planter. No. 1,149,105; Aug. 3; Gaz. vol. 217; p. 217.
- White, Charles J., assignor to The C. J. White Manufacturing Company, New Britain, Conn. Tab end for hose-supporters and making the same. No. 1,159,559; Nov. 9; Gaz. vol. 220; p. 434.
- White, Charles S., Louisville, Ky. Flying-machine. No. 1,125,235; Jan. 19; Gaz. vol. 210; p. 796.
- White, Chester A. (See Weyden, William, assignor.)
- White, Clarence W., North Bennington, Vt. Projecting apparatus. No. 1,124,367; Jan. 12; Gaz. vol. 210; p. 450.
- White, Clarence W., North Bennington, Vt. Reflector. No. 1,149,237; Aug. 10; Gaz. vol. 217; p. 369.
- White, Clarence W., North Bennington, Vt. Photographic-picture-enlarging apparatus. No. 1,157,742; Oct. 26; Gaz. vol. 219; p. 963.
- White, Clayton L., Los Angeles, Cal. Live-bait-casting device. No. 1,128,205; Feb. 9; Gaz. vol. 211; p. 580.
- White Company, The, *et al.* (See Dowd and Thompson, assignors.)
- White Company, The. (See Entz, Justus B., assignor.)
- White Company, The. (See Farmer, Frank H., assignor.)
- White Company, The. (See Scaife, Arthur J., assignor.)
- White, Curtis, Indianapolis, Ind. Printing-press. No. 1,150,470; Aug. 17; Gaz. vol. 217; p. 872.
- White, Edgar C., Belmar, N. J. Screen. No. 1,147,583; July 20; Gaz. vol. 216; p. 952.
- White, Edward E., Brighton, Iowa. Step-ladder. No. 1,159,452; Nov. 9; Gaz. vol. 220; p. 396.
- White, Edward Y., San Antonio, Tex. Motor-cycle frame. No. 1,152,773; Sept. 7; Gaz. vol. 218; p. 144.
- White, Edwin L., New York, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Watch-stand. No. 1,143,340; June 15; Gaz. vol. 215; p. 867.
- White, Edwin L., New York, assignor to J. H. White Mfg. Co., Brooklyn, N. Y. Device for suspending shades or bowls in lighting-fixtures. No. 1,154,358; Sept. 21; Gaz. vol. 218; p. 774.
- White, Edwin L., New York, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Shade-holder. No. 1,155,117; Sept. 28; Gaz. vol. 218; p. 1063.
- White, Francis, Littlefork, Minn. Seeder. No. 1,137,683; Apr. 27; Gaz. vol. 213; p. 1394.
- White, Francis S., Philadelphia, Pa. Forging projectiles. No. 1,131,973; Mar. 16; Gaz. vol. 212; p. 813.
- White, Francis S., Philadelphia, Pa. Compound die for forging projectiles. No. 1,131,974; Mar. 16; Gaz. vol. 212; p. 813.
- White, Francis S., Philadelphia, Pa. Process and apparatus for forging bucket-wheels. No. 1,137,440; Apr. 27; Gaz. vol. 213; p. 1314.
- White, Frank, St. John, New Brunswick, Canada. Manufacture of confection. No. 1,136,074. Apr. 20; Gaz. vol. 213; p. 786.
- White, Frank C., assignor to The Wilcox & White Company, Meriden, Conn. Automatic stop for power-driven player mechanisms. No. 1,154,082; Sept. 21; Gaz. vol. 218; p. 678.
- White, Franklin R., assignor to Patent Button Company, Waterbury, Conn. Fastener-escapement for button-attaching machines. No. 1,154,680; Sept. 28; Gaz. vol. 218; p. 913.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Escapement for button-attaching machines. No. 1,157,743; Oct. 26; Gaz. vol. 219; p. 964.
- White, Fred E. (See Wilder and White.)
- White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Oven. No. 1,146,042; July 13; Gaz. vol. 216; p. 394.
- White, Fred E., assignor to Central Oil and Gas Stove Co., Gardner, Mass. Pipe-line for oil-stoves and other purposes. No. 1,157,484; Oct. 19; Gaz. vol. 219; p. 811.
- White, Frederick H., assignor of one-half to W. W. Westcott, New York, N. Y. Combined stereopticon and panoramic projecting-machine. No. 1,154,819; Sept. 28; Gaz. vol. 218; p. 959.
- White, George, Jersey City, N. J. Light-regulating device for film-printing machines. No. 1,154,820; Sept. 28; Gaz. vol. 218; p. 960.
- White, George, Rock Island, Ill. Curtain-light. No. 1,162,268; Nov. 30; Gaz. vol. 220; p. 1538.
- White, George A., Vandergrift, assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Heat-treating rolled steel sheets and plates. No. 1,144,884; June 29; Gaz. vol. 215; p. 1455.
- White, George C., Baltimore, Md. Reproducer-support for graphophones. No. 1,160,803; Nov. 16; Gaz. vol. 220; p. 929.
- White, George E., Gwelo, South Rhodesia, South Africa. Well-pump. No. 1,138,432; May 4; Gaz. vol. 214; p. 251.
- White, George G., St. Joseph, Mo. Treadle-operated driving mechanism. No. 1,141,026; May 25; Gaz. vol. 214; p. 1268.
- White, George H. (See Snook and White.)
- White, George H., Cincinnati, Ohio. Combined door check and closer. No. 1,126,148; Jan. 26; Gaz. vol. 210; p. 1154.
- White, George S. (See Pilling and White.)
- White, Glenn P., Ashtabula, Ohio. Inclinator. No. 1,124,984; Jan. 12; Gaz. vol. 210; p. 671.
- White, Harrie C., North Bennington, Vt. Pin for children's building-blocks. No. 1,142,471; June 8; Gaz. vol. 215; p. 525.
- White, Harry B., assignor to S. S. Kurtz, Canton, Ohio. Filing appliance. No. 1,127,706; Feb. 9; Gaz. vol. 211; p. 403.
- White, Harry B., assignor to S. S. Kurtz, Canton, Ohio. Filing appliance. No. 1,166,396; Dec. 28; Gaz. vol. 221; p. 1410.
- White, Harry B., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Bow rest and clamp device. No. 1,152,924; Sept. 7; Gaz. vol. 218; p. 200.
- White, Harry W., and A. T. Sheldon, Atchee, Colo. Anti-skidding device for vehicle-tires. No. 1,152,065; Aug. 31; Gaz. vol. 217; p. 1524.
- White, Henry P., assignor to Atlas Press Co., Kalamazoo, Mich. Mandrel-press. No. 1,156,261; Oct. 12; Gaz. vol. 219; p. 349.
- White, Henry W., and A. T. Sheldon, Atchee, Colo. Anti-skidding armor for tires. No. 1,146,221; July 13; Gaz. vol. 216; p. 456.
- White, Henry W., and A. T. Sheldon, Atchee, Colo. Anti-skidding armor for tires. No. 1,158,607; Nov. 2; Gaz. vol. 220; p. 70.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Ribbed-sheet-metal-expanding machine. No. 1,125,786; Jan. 19; Gaz. vol. 210; p. 993.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Wire-fastening device. No. 1,136,746; Apr. 20; Gaz. vol. 213; p. 1027.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Making wire fabric. No. 1,137,441; Apr. 27; Gaz. vol. 213; p. 1314.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Making ribbed expanded-metal structures. No. 1,145,341; July 6; Gaz. vol. 216; p. 126.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Making ribbed expanded-metal structures. No. 1,145,342; July 6; Gaz. vol. 216; p. 127.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Making expanded-metal structures. No. 1,153,145; Sept. 7; Gaz. vol. 218; p. 274.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Paint-spraying device. No. 1,162,717; Nov. 30; Gaz. vol. 220; p. 1685.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Metal framing-joint (welded). No. 1,165,048; Dec. 21; Gaz. vol. 221; p. 894.
- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Metal framing-joint. No. 1,165,049; Dec. 21; Gaz. vol. 221; p. 895.
- White, Howard L., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,158,608; Nov. 2; Gaz. vol. 220; p. 70.
- White, Howard L., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,158,609; Nov. 2; Gaz. vol. 220; p. 71.
- White, Howe, Ho-nan fu, China. Swimming appliance. No. 1,160,023; Nov. 9; Gaz. vol. 220; p. 599.
- White, Isaac D. (See Reid, Harry, assignor.)
- White, J. F., *et al.* (See Moore, Charles P., assignor.)
- White, James C., Sewickley, Pa. Excrement receptacle. No. 1,139,941; May 18; Gaz. vol. 214; p. 854.
- White, James F., Roanoke Rapids, N. C. Foot-propelled vehicle. No. 1,148,419; July 27; Gaz. vol. 216; p. 1275.
- White, James M., Blountville, Tenn. Vehicle-brake. No. 1,124,084; Jan. 5; Gaz. vol. 210; p. 301.
- White, James M., Danville, Va. Combination tobacco-box. No. 1,141,027; May 25; Gaz. vol. 214; p. 1269.
- White, James T. (See Kippen, Brown, and White.)
- White, Jesse F., Titusville, Fla. Water-calming device. No. 1,139,246; May 11; Gaz. vol. 214; p. 573.
- White, John E., Tarentum, assignor to West Penn Steel Company, Brackenridge, Pa. Annealing-furnace. No. 1,158,760; Nov. 2; Gaz. vol. 220; p. 123.
- White, John H., Oneida, Kans. Sieve. No. 1,133,418; Mar. 30; Gaz. vol. 212; p. 1422.
- White, John J., assignor of one-fourth to J. A. Pierce, Arvada, Colo. Computing instrument. No. 1,163,294; Dec. 7; Gaz. vol. 221; p. 195.
- White, John T., New York, N. Y. Coat-hook. No. 1,132,414; Mar. 16; Gaz. vol. 212; p. 973.
- White, John W., assignor to Aero Fire Alarm Company, New York, N. Y. Testing device. No. 1,137,821; May 4; Gaz. vol. 214; p. 34.

Alphabetical list of patentees—Continued.

- White, John W., Jr., Oakland, Cal. Distributer for fertilizers, disinfectants, and the like. No. 1,142,292; June 8; Gaz. vol. 215; p. 460.
- White, Joseph, Beechwood Heights, Piscataway township, Middlesex county, assignor to Hall Printing Press Company, Dunellen, N. J. Printing-machine. No. 1,137,299; Apr. 27; Gaz. vol. 213; p. 1263.
- White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Sheet-delivery mechanism. No. 1,156,957; Oct. 19; Gaz. vol. 219; p. 624.
- White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Printing-press. No. 1,158,761; Nov. 2; Gaz. vol. 220; p. 123.
- White, Joseph C., Chelsea, Mass. Eye-shade. No. 1,149,706; Aug. 10; Gaz. vol. 217; p. 539.
- White, Kirk H., Oswego, assignor of one-half to M. S. Ely, New York, N. Y. Union suit. No. 1,147,349; July 20; Gaz. vol. 216; p. 869.
- White Knight Company, The. (See Messimer, Onslow W., assignor.)
- White, Loring Q., Brockton, Mass. Last for boots and shoes. No. 1,152,679; Sept. 7; Gaz. vol. 218; p. 111.
- White, Louis L., assignor to Platinum Electric Incubator Company, Dorris, Cal. Electromagnetic switching system. No. 1,123,452; Jan. 5; Gaz. vol. 210; p. 88.
- White, Louis L., assignor to Platinum Electric Incubator Co., Dorris, Cal. Thermo circuit-closer. No. 1,151,142; Aug. 24; Gaz. vol. 217; p. 1161.
- White, Michael J., Wilmington, Del. Safety device for automobiles. No. 1,146,828; July 20; Gaz. vol. 216; p. 688.
- White, Morris C., assignor to M. C. White Company, Los Angeles, Cal. Air-compressor. No. 1,148,809; Aug. 3; Gaz. vol. 217; p. 117.
- White, Nellie G. (See Kelly, Robert A. and G. N., assignors.)
- White, Nelson, Portland, Oreg., assignor, by mesne assignments, to International Money Machine Company, Terre Haute, Ind. Chute-gate for coin-delivery machines. No. 1,145,727; July 6; Gaz. vol. 216; p. 264.
- White, Noah, *et al.* (See Murrey, Ed., assignor.)
- White, Oliver L., Alpha, N. D. Storm-curtain. No. 1,136,570; Apr. 20; Gaz. vol. 213; p. 964.
- White, Prince E., Perth Amboy, N. J. Ship's berth. No. 1,142,472; June 8; Gaz. vol. 215; p. 525.
- White, Ray H., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Electric-furnace regulator. No. 1,149,238; Aug. 10; Gaz. vol. 217; p. 369.
- White, Richard P., Chicago, Ill. Tank-car for transporting cement and the like. No. 1,165,736; Dec. 28; Gaz. vol. 221; p. 1175.
- White, Robert C., assignor of one-half to G. W. Beggs, Birmingham, Ala. Cast-iron culvert-pipe. No. 1,160,554; Nov. 16; Gaz. vol. 220; p. 839.
- White, Roger S., Washington, D. C. Electric-meter brush. No. 1,155,021; Sept. 28; Gaz. vol. 218; p. 1027.
- White, Samuel B., assignor, by mesne assignments, to Office Appliance Manufacturing Company, Providence, R. I. Stamp-affixing machine. No. 1,124,368; Jan. 12; Gaz. vol. 210; p. 450.
- White, Samuel T., Davenport, Iowa. Mechanical movement for washing-machines. No. 1,126,166; Jan. 26; Gaz. vol. 210; p. 1162.
- White, Samuel T., Davenport, Iowa. Mechanical movement for laundry-wringers. No. 1,132,815; Mar. 23; Gaz. vol. 212; p. 1170.
- White, Samuel T., Davenport, Iowa. Clothes-wringer. No. 1,148,133; July 27; Gaz. vol. 216; p. 1175.
- White, Samuel T., Davenport, Iowa. Dolly-support for washing-machines. No. 1,160,555; Nov. 16; Gaz. vol. 220; p. 840.
- White, Samuel T., Davenport, Iowa. Mechanical movement. No. 1,165,050; Dec. 21; Gaz. vol. 221; p. 895.
- White Tar Company, The. (See Scheuch, Jacob J., assignor.)
- White, Thelo G., Cedar Rapids, Iowa. Baling-press. No. 1,130,780; Mar. 9; Gaz. vol. 212; p. 361.
- White, Thomas H., assignor of one-third to G. J. Eder, Baltimore, Md. Combined cigarette and match box. No. 1,156,732; Oct. 12; Gaz. vol. 219; p. 516.
- White, Tilman, Portland, Oreg., assignor to D. Hirstel, Oakland, Cal. Gate-valve. No. 1,159,453; Nov. 9; Gaz. vol. 220; p. 397.
- White, Ulysses G., Boulder, Mont. Propelling and balancing mechanism for air-craft. No. 1,134,790; Apr. 6; Gaz. vol. 213; p. 258.
- White, Walter A., Covington, La. Moldboard for plows. No. 1,155,854; Oct. 5; Gaz. vol. 219; p. 185.
- White, Walter C., Los Angeles, Cal. Train-pipe coupling. No. 1,126,168; Jan. 26; Gaz. vol. 210; p. 1163.
- White, Walter H. (See Moss and White.)
- White, Walter H., assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Locking-ring for glazings. No. 1,144,083; June 22; Gaz. vol. 215; p. 1148.
- White, Walter M. (See Robertson and White.)
- White, Wilbur H. (See Dixon, Thomas W., assignor.)
- White, William. (See Booty, Robert, assignor.)
- White, William, Chicago, Ill. Roundhouse equipment. No. 1,131,192; Mar. 9; Gaz. vol. 212; p. 503.
- White, William A., New York, N. Y. Furnace-front. No. 1,130,124; Mar. 2; Gaz. vol. 212; p. 98.
- White, William A., and E. W. Keller, North Bergen, N. J. Tension device for embroidering-machines. No. 1,124,827; Jan. 12; Gaz. vol. 210; p. 615.
- White, William A., and E. W. Keller, West Hoboken, N. J. Needle-holding attachment for embroidering-machines. No. 1,125,787; Jan. 19; Gaz. vol. 210; p. 993.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Electrical-discharge device. No. 1,159,307; Nov. 2; Gaz. vol. 220; p. 313.
- White, William H. (See Judd, Alvin B. and W. E., assignors.)
- White, William H., assignor to White-American Locomotive Sander Company, Inc., Roanoke, Va. Sand-trap. No. 1,164,899; Dec. 21; Gaz. vol. 221; p. 842.
- White, William M., Milwaukee, Wis. Centrifugal pump. No. 1,134,655; Apr. 6; Gaz. vol. 213; p. 209.
- White, William M., Milwaukee, Wis. Hydraulic nozzle. No. 1,155,631; Oct. 5; Gaz. vol. 219; p. 106.
- White, William P., Chicago, Ill. Closure. No. 1,134,069; Mar. 30; Gaz. vol. 212; p. 1649.
- White, William R., assignor of one-half to R. S. Legate, Denison, Tex. Poultry-crate. No. 1,138,918; May 11; Gaz. vol. 214; p. 458.
- White, William S. M., assignor of one-half to R. S. Conner and one-fourth to R. A. Smith, Los Angeles, Cal. Clamping device for tappings. No. 1,123,635; Jan. 5; Gaz. vol. 210; p. 150.
- Whitehead, Ernest. (See Sault, William A., assignor.)
- Whitehead & Hoag Company, The. (See Conklin, Edward D., assignor.)
- Whitehead & Hoag Company, The. (See Page, Herman C., assignor.)
- Whitehead, Morris & Company. (See Farmer, Ernest H., assignor.)
- Whitehead, Robert L., Perth Amboy, assignor to American Smelting & Refining Company, Maurer, N. J. Electrolytic refining of tin. No. 1,157,830; Oct. 26; Gaz. vol. 219; p. 993.
- Whitehouse, Jeremiah H., Springfield, Mass. Calendering-machine. No. 1,123,968; Jan. 5; Gaz. vol. 210; p. 261.
- Whitehouse, John N., Newark, N. J. Making celluloid tubes. No. 1,125,893; Jan. 19; Gaz. vol. 210; p. 1028.
- Whitehurst, Joel S., San Jose, Cal. Sash-fastener. No. 1,131,975; Mar. 16; Gaz. vol. 212; p. 813.
- Whitelaw, James, St. Louis, Mo., assignor, by mesne assignments, to Chicago Pneumatic Tool Company, Chicago, Ill. Engine. No. 1,143,563; June 15; Gaz. vol. 215; p. 943.
- Whiteley, George H., Jr., York, Pa. Artificial tooth. No. 1,144,336; June 22; Gaz. vol. 215; p. 1238.
- Whiteley, John T., New York, N. Y. Mold and core for hollow steel ingots. No. 1,159,632; Nov. 9; Gaz. vol. 220; p. 460.
- Whiteman, Owen L., Coxsackie, N. Y. Valve. No. 1,164,150; Dec. 14; Gaz. vol. 221; p. 540.
- Whitesel, Fred. (See Whitesel, Newton and F.)
- Whitesel, Newton and F., Watertown, Nebr. Wire-stretcher. No. 1,152,583; Sept. 7; Gaz. vol. 218; p. 76.
- Whiteside & Blank. (See Blank, Henry, assignor.)
- Whiteside, William G., Portland, Oreg. Lever-locking means. No. 1,165,352; Dec. 21; Gaz. vol. 221; p. 1000.
- Whitfield, George S., Watford, England. Color photography. No. 1,144,575; June 29; Gaz. vol. 215; p. 1346.
- Whitfield, Henry A., Monroe, La. Adjustable non-detachable top for bags, baskets, and barrels. No. 1,146,605; July 13; Gaz. vol. 216; p. 592.
- Whitin, George M., Whitinsville, Mass. Cotton-comber. No. 1,151,143; Aug. 24; Gaz. vol. 217; p. 1161.
- Whitin, George M., assignor to The Whitin Machine Works, Whitinsville, Mass. Heilmann-type cotton-comber. No. 1,131,976; Mar. 16; Gaz. vol. 212; p. 814.
- Whitin, George M., assignor to The Whitin Machine Works, Whitinsville, Mass. Combing cotton. No. 1,141,673; June 1; Gaz. vol. 215; p. 209.
- Whitin, George M., assignor to The Whitin Machine Works, Whitinsville, Mass. Ring-polishing machine. No. 1,156,958; Oct. 19; Gaz. vol. 219; p. 624.
- Whitin Machine Works, The. (See Aldrich, William O., assignor.)
- Whitin Machine Works, The. (See Allen, Charles A., assignor.)
- Whitin Machine Works, The. (See Chace, Richard B., assignor.)
- Whitin Machine Works, The. (See Cooper, James A., assignor.)
- Whitin Machine Works, The. (See Ferguson, Hugh S., assignor.)
- Whitin Machine Works, The. (See Kimball, Harry G., assignor.)
- Whitin Machine Works, The. (See Nelson, Harmon O., assignor.)
- Whitin Machine Works, The. (See O'Connell, Timothy, assignor.)
- Whitin Machine Works, The. (See Owen, Henry A., assignor.)
- Whitin Machine Works. (See Owen, Herbert W., assignor.)
- Whitin Machine Works, The. (See Owen, Oscar L., assignor.)

- Whitin Machine Works, The. (See Owen and Rasco, assignors.)
- Whitin Machine Works, The. (See Rooney, Luke H., assignor.)
- Whitin Machine Works, The. (See Whitin, George M., assignor.)
- Whiting Foundry Equipment Company. (See Rundle, Fred A., assignor.)
- Whiting, Herman E., assignor to Garlock Auto Specialty Company, Palmyra, N. Y. Vaporizer for internal-combustion engines. No. 1,130,228; Mar. 2; Gaz. vol. 212; p. 134.
- Whiting, Jasper, Boston, Mass. Humidifier. No. 1,159,454; Nov. 9; Gaz. vol. 220; p. 397.
- Whiting, John H., Buffalo, N. Y., assignor to International Motor Company, Punxsutawney, Pa. Rotary engine. No. 1,133,772; Mar. 30; Gaz. vol. 212; p. 1549.
- Whiting, John H., assignor to International Motor Co., Punxsutawney, Pa. Headlight for locomotives. No. 1,156,262; Oct. 12; Gaz. vol. 219; p. 349.
- Whiting, Joseph S., Yonkers, N. Y. Valve. No. 1,141,028; May 25; Gaz. vol. 214; p. 1269.
- Whiting Manufacturing Company. (See Blair, Thomas H., assignor.)
- Whiting, Marla E. (See Whiting, Phineas S., assignor.)
- Whiting, Phineas S., Akron, Ohio, assignor to M. E. Whiting, Wayne county, Mich. Rim for vehicle-wheels. No. 1,163,577; Dec. 7; Gaz. vol. 221; p. 294.
- Whiting, Saville, St. Kilda, Victoria, Australia. Spring-frame for motor-cycles and like machines. No. 1,154,821; Sept. 28; Gaz. vol. 218; p. 960.
- Whiting, Saville, St. Kilda, Victoria, Australia. Spring front fork for motor-cycles and like machines. No. 1,155,458; Oct. 5; Gaz. vol. 219; p. 46.
- Whiting, William J., Handsworth, Birmingham, England. Automatic pistol and other magazine small-arm. No. 1,143,470; June 15; Gaz. vol. 215; p. 912.
- Whiting, William J., Handsworth, Birmingham, England. Magazine small-arm. No. 1,143,471; June 15; Gaz. vol. 215; p. 913.
- Whiting, William J., Handsworth, Birmingham, England. Hammerless automatic small-arm. No. 1,143,472; June 15; Gaz. vol. 215; p. 913.
- Whiting, William R. G., Fenham, Newcastle-upon-Tyne, England. Strain-indicator. No. 1,125,236; Jan. 19; Gaz. vol. 210; p. 796.
- Whitley, Alfred A., Manchester, England. Clip for stentering-machines. No. 1,141,081; May 25; Gaz. vol. 214; p. 1287.
- Whitlock, Julius A., Newark, N. J. Window-washer. No. 1,133,419; Mar. 30; Gaz. vol. 212; p. 1422.
- Whitlow, Alամander, Port Arthur, Tex. File-cabinet. No. 1,149,313; Aug. 10; Gaz. vol. 217; p. 398.
- Whitman, Frederick H., assignor to Dodge Brothers, Detroit, Mich. Drag-link device. No. 1,135,237; Apr. 13; Gaz. vol. 213; p. 452.
- Whitman, Leonard O. (See Sinclair, George B., assignor.)
- Whitman, Oscar H., Los Angeles, Cal. Crossing-signal. No. 1,158,610; Nov. 2; Gaz. vol. 220; p. 71.
- Whitman, Ralph M. (See Daniels, John F., assignor.)
- Whitman, Roland E., assignor of one-half to W. Slattery, Sturgis, Mich. Convertible sled. No. 1,152,774; Sept. 7; Gaz. vol. 218; p. 144.
- Whitmarsh, Chaney G., Humboldt, Saskatchewan, Canada. Compound self-igniting two-cycle engine. No. 1,150,723; Aug. 17; Gaz. vol. 217; p. 960.
- Whitmarsh, Robert B., Los Angeles, Cal. Water-bag. No. 1,126,601; Jan. 26; Gaz. vol. 210; p. 1320.
- Whitmarsh, Robert B., Los Angeles, Cal. Water-bag. (Reissue.) No. 14,024; Nov. 30; Gaz. vol. 220; p. 1696.
- Whitmer, Arthur K., assignor of one-half to W. W. Hoencke, Canton, Ohio. Roller-bearing. No. 1,150,565; Aug. 17; Gaz. vol. 217; p. 906.
- Whitmore, Edward E., Chicago, Ill., assignor to Curtain Supply Company, Newark, N. J. Reinforced curtain-roller. No. 1,132,643; Mar. 23; Gaz. vol. 212; p. 1106.
- Whitmore, Edward E., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-roller. No. 1,147,834; July 27; Gaz. vol. 216; p. 1067.
- Whitmore, Franklin G. (See Parker, George A., assignor.)
- Whitmore Manufacturing Company. (See Heywood, Francis C., assignor.)
- Whitmore, Samuel W., Cleveland, Ohio. Refining oils. No. 1,125,422; Jan. 19; Gaz. vol. 210; p. 864.
- Whitmore, Willis W. (See Hewitt and Whitmore.)
- Whitney, Arthur S., San Francisco, Cal. Spouted container. No. 1,137,248; Apr. 27; Gaz. vol. 213; p. 1244.
- Whitney, Dennis A., Holland, N. Y. Inhaling apparatus. No. 1,132,138; Mar. 16; Gaz. vol. 212; p. 873.
- Whitney, Earle, and M. C. Grimm, Lewes, Del. Tool-box for automobiles. No. 1,162,006; Nov. 30; Gaz. vol. 220; p. 1443.
- Whitney, Eddy R., assignor to Commercial Truck Company of America, Philadelphia, Pa. Gearing. No. 1,126,602; Jan. 26; Gaz. vol. 210; p. 1320.
- Whitney, Eddy R., assignor to Commercial Truck Company of America, Philadelphia, Pa. Driving mechanism. No. 1,149,106; Aug. 3; Gaz. vol. 217; p. 217.
- Whitney, Edwin H. (See Provandie and Whitney.)
- Whitney, Elisha M., Winchendon, Mass. Washboard. No. 1,124,985; Jan. 12; Gaz. vol. 210; p. 671.
- Whitney, Elmer E., Biddeford, Me. Trombone-slide. No. 1,130,358; Mar. 2; Gaz. vol. 212; p. 179.
- Whitney, Frank H., Mount Vernon, N. Y., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake apparatus. No. 1,131,977; Mar. 16; Gaz. vol. 212; p. 814.
- Whitney, Fred B., Waukegan, Ill. Shallow-draft submarine boat. No. 1,127,707; Feb. 9; Gaz. vol. 211; p. 404.
- Whitney, Horace E., Cambridge, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me. Lamp-holder. No. 1,161,096; Nov. 23; Gaz. vol. 220; p. 1077.
- Whitney, James L., San Francisco, Cal. Hemoglobinometer. No. 1,143,675; June 22; Gaz. vol. 215; p. 1007.
- Whitney, Karl T., Fairhaven, assignor of one-third to C. C. Parsons, Brookline, Mass., and one-third to F. F. Kezer, Rochester, Vt. Sawing-machine. No. 1,124,244; Jan. 5; Gaz. vol. 210; p. 358.
- Whitney, Larned S., Wallingford, Vt. Blank for making rakes and forks. No. 1,142,000; June 8; Gaz. vol. 215; p. 357.
- Whitney, Larned S., Fiskdale, Mass. Making rakes, forks, and the like. No. 1,142,001; June 8; Gaz. vol. 215; p. 357.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Brake-beam. No. 1,140,089; May 18; Gaz. vol. 214; p. 908.
- Whitney Manufacturing Company. (See Belcher, Warren J., assignor.)
- Whitney Manufacturing Company. (See Schramm, William, assignor.)
- Whitney, Perrin B., assignor to Mesinger-Whitney Electric Company, Inc., New York, N. Y. Storage battery. No. 1,136,075; Apr. 20; Gaz. vol. 213; p. 787.
- Whitney, Perrin B., assignor to Mesinger-Whitney Electric Company, Inc., New York, N. Y. Combined lamp and horn. No. 1,157,744; Oct. 26; Gaz. vol. 219; p. 964.
- Whitney, Raynard L., Elmira, N. Y. Bearing. No. 1,153,986; Sept. 21; Gaz. vol. 218; p. 645.
- Whitney, Rolvin S., Lewiston, Me. Arbor-press. No. 1,128,563; Feb. 16; Gaz. vol. 211; p. 753.
- Whitney, Rolvin S., Lewiston, Me. Relief-valve. No. 1,138,338; May 4; Gaz. vol. 214; p. 218.
- Whitney, Ruel W., and C. N. Richards, Cleveland, Ohio. Fountain-pen. No. 1,133,349; Mar. 30; Gaz. vol. 212; p. 1397.
- Whitney, William B. (See Hulbert, James C., assignor.)
- Whitney, William M. (See Farnum, William C., assignor.)
- Whitridge, John C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck. No. 1,152,251; Aug. 31; Gaz. vol. 217; p. 1587.
- Whitridge, John C., and G. T. Johnson, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Six-wheel truck. No. 1,153,741; Sept. 14; Gaz. vol. 218; p. 526.
- Whitt, James E., Champaign, Ill. Spring-wheel. No. 1,142,649; June 8; Gaz. vol. 215; p. 585.
- Whitt, James F. (See Lincoln and Whitt.)
- Whittaker, Arnold R. (See Jeavons and Whittaker.)
- Whittaker, Elba E., Milwaukee, Wis. Protecting device for the hair. No. 1,143,341; June 15; Gaz. vol. 215; p. 867.
- Whittaker, John, J. Briggs, and R. Bradshaw, Rishton, near Blackburn, England. Construction of shuttles and shuttle-boxes in overpick weft-replenishing looms. No. 1,132,893; Mar. 23; Gaz. vol. 212; p. 1197.
- Whittaker, John, R. Bradshaw, and J. Briggs, Rishton, near Blackburn, England. Device for positioning shuttles in looms. No. 1,149,484; Aug. 10; Gaz. vol. 217; p. 457.
- Whittaker, John, R. Bradshaw, and J. Briggs, Rishton, near Blackburn, England. Weft-replenishing mechanism for looms. No. 1,149,550; Aug. 10; Gaz. vol. 217; p. 481.
- Whittaker, John, R. Bradshaw, and J. Briggs, Rishton, near Blackburn, England. Automatic weft-replenishing mechanism of looms for weaving. No. 1,151,915; Aug. 31; Gaz. vol. 217; p. 1472.
- Whittaker, John, R. Bradshaw, and J. Briggs, Rishton, near Blackburn, England. Weft-replenishing mechanism for looms for weaving. No. 1,161,566; Nov. 23; Gaz. vol. 220; p. 1245.
- Whittaker, Richard J., St. Louis, Mo. Bed. No. 1,143,342; June 15; Gaz. vol. 215; p. 868.
- Whittaker, Thomas L., Birmingham, Ala. Ice-cream-cone tray. No. 1,165,304; Dec. 21; Gaz. vol. 221; p. 983.
- Whittam, Frederick F., Dorchester, and H. C. Witt, Somerville, Mass. Construction member. No. 1,148,643; Aug. 3; Gaz. vol. 217; p. 58.
- Whittelsey, Henry N., Greenwich, Conn. Vehicle. No. 1,126,326; Jan. 26; Gaz. vol. 210; p. 1219.
- Whittemore, Charles, *et al.* (See Hethersall, John M., assignor.)
- Whittemore, Charles, *et al.* (See King, Madison M., assignor.)
- Whittemore, George W., Bristol, and J. H. Warner, assignors to The Sessions Clock Company, Forestville, Conn. Locking device for dash-clocks. No. 1,158,611; Nov. 2; Gaz. vol. 220; p. 71.

Alphabetical list of patentees—Continued.

- Whittemore, John M., Boston, Mass. Woven fabric. No. 1,130,868; Mar. 9; Gaz. vol. 212; p. 391.
- Whittemore, John Q. A., *et al.* (See Hothersall, John M., assignor.)
- Whittemore, John Q. A., *et al.* (See King, Madison M., assignor.)
- Whittenburg, Elbert E., assignor to The Standard Dry Kiln Company, Indianapolis, Ind. Journal-box for trucks. No. 1,141,029; May 25; Gaz. vol. 214; p. 1269.
- Whittier, Albert E., Bristol, Conn. Oven-thermometer. No. 1,143,925; June 22; Gaz. vol. 215; p. 1091.
- Whittier, Albert E., Bristol, Conn. Oven-thermometer. No. 1,151,638; Aug. 31; Gaz. vol. 217; p. 1376.
- Whittier, Edwin R., Beverly, Mass. Game apparatus. No. 1,166,164; Dec. 28; Gaz. vol. 221; p. 1326.
- Whittier, Frederick G., Brookline, assignor to The Lamson Company, Boston, Mass. Routing apparatus. No. 1,125,237; Jan. 19; Gaz. vol. 210; p. 796.
- Whittier, Frederick G., Brookline, assignor to The Lamson Company, Boston, Mass. Routing apparatus. No. 1,136,571; Apr. 20; Gaz. vol. 213; p. 965.
- Whittier, Maricos H. (See Coleston, Claude E., assignor.)
- Whittier, Walter H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Latch. No. 1,140,553; May 25; Gaz. vol. 214; p. 1106.
- Whittier, Walter H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Lining for refrigerators. No. 1,147,288; July 20; Gaz. vol. 216; p. 848.
- Whittier, William F., Delaware, Ohio. Leveling-rod. No. 1,147,060; July 20; Gaz. vol. 216; p. 771.
- Whittingham, George H., Bancroft Park, assignor to Monitor Manufacturing Company of Baltimore City, Baltimore, Md. Motor-control system. No. 1,124,189; Jan. 5; Gaz. vol. 210; p. 338.
- Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company, Baltimore, Md. Motor-starter. No. 1,151,550; Aug. 24; Gaz. vol. 217; p. 1300.
- Whittingham, George H., Pikesville, assignor to Monitor Manufacturing Company of Baltimore City, Baltimore, Md. Motor-starter. No. 1,135,870; Apr. 13; Gaz. vol. 213; p. 676.
- Whittingham, George H., Pikesville, and W. T. Holmes, Baltimore, assignors to Monitor Manufacturing Company, Baltimore, Md. Controlling means for electric motors. No. 1,124,086; Jan. 5; Gaz. vol. 210; p. 301.
- Whitworth, Beville W., assignor to C. S. Whitworth, Cedar Falls, Iowa. Device for forming loops in wires. No. 1,151,639; Aug. 31; Gaz. vol. 217; p. 1376.
- Whitworth, Beville W., assignor to C. S. Whitworth, Cedar Falls, Iowa. Tool for securing ends of wires. No. 1,151,640; Aug. 31; Gaz. vol. 217; p. 1377.
- Whitworth, Charles S. (See Whitworth, Beville W., assignor.)
- Whitworth, Charles S., Cedar Falls, Iowa, assignor to M. Rumely Company, Laporte, Ind. Traction-engine guide. No. 1,132,139; Mar. 16; Gaz. vol. 212; p. 873.
- Whitworth, Jesse, Lawrence, assignor to J. K. Lanning, Fall River, Mass. Picker-check. No. 1,161,815; Nov. 23; Gaz. vol. 220; p. 1329.
- Whitworth, John. (See Pittenger, Charles E., assignor.)
- Whitrenour, Charles M. (See Watson and Whritenour.)
- Whritenour, George E., Sloatsburg, N. Y. Paper bag and the like. No. 1,164,688; Dec. 21; Gaz. vol. 221; p. 769.
- Whritner, Harry C., New York, N. Y. Mechanism for producing artificial silk. No. 1,155,777; Oct. 5; Gaz. vol. 219; p. 157.
- Whyland, Vincent S., Detroit, Mich. Reducing the diameter of wire. No. 1,162,960; Dec. 7; Gaz. vol. 221; p. 79.
- Whysall, George. (See Heath, Forrest A., assignor.)
- Whyte, Frederick M., Tarrytown, N. Y., assignor to Hutchins Car Roofing Company, Detroit, Mich. Unlocking mechanism for car-couplings. No. 1,151,982; Aug. 31; Gaz. vol. 217; p. 1495.
- Whyte, Frederick M., Tarrytown, N. Y., assignor to Hutchins Car Roofing Company, Detroit, Mich. Unlocking mechanism for car-couplings. No. 1,162,269; Nov. 30; Gaz. vol. 220; p. 1536.
- Whyte, John S., *et al.* (See Bradshaw, Ira J., assignor.)
- Whyte, John S., *et al.* (See Regan, Philip C., assignor.)
- Wiard, George, assignor to Wiard Plow Company, Batavia, N. Y. Sulky-plow. No. 1,149,314; Aug. 10; Gaz. vol. 217; p. 398.
- Wiard, Harry, and A. J. Spire, assignors to Syracuse Chilled Plow Company, Syracuse, N. Y. Reversible plow. No. 1,126,603; Jan. 26; Gaz. vol. 210; p. 1320.
- Wiard, John B., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 1,157,970; Oct. 26; Gaz. vol. 219; p. 1043.
- Wiard Plow Company. (See Wiard, George, assignor.)
- Wiherg, Charles A., Chicago City, Minn. Vehicle-gear. No. 1,163,731; Dec. 14; Gaz. vol. 221; p. 394.
- Wiherg, Helge A., assignor to Aktiebolaget Adderator, Stockholm, Sweden. Calculating-machine. No. 1,154,150; Sept. 21; Gaz. vol. 218; p. 701.
- Wichert & Gardiner. (See Gardiner, George H., assignor.)
- Wick, Jacob O., Clifford, N. D. Coffee-pot strainer. No. 1,130,557; Mar. 2; Gaz. vol. 212; p. 252.
- Wickblom, Peter J., Kewanee, Ill. Pump-actuating mechanism. No. 1,127,142; Feb. 2; Gaz. vol. 211; p. 169.
- Wickersham, Charles E., assignor of one-half to B. E. Willis, Mount Vernon, Ill. Drop-door mechanism. No. 1,153,146; Sept. 7; Gaz. vol. 218; p. 275.
- Wickes, Clarence S. (See Smith and Wickes.)
- Wickham, Henry A., London, England. Apparatus for treating latex. No. 1,126,327; Jan. 26; Gaz. vol. 210; p. 1220.
- Wickham, Oliver, Newton, Singapore, Straits Settlements. Apparatus for filling receptacles with liquid. No. 1,163,494; Dec. 7; Gaz. vol. 221; p. 265.
- Wickland, Anton E., and A. T. Britton, San Jose, Cal. Lathe attachment. No. 1,138,821; May 11; Gaz. vol. 214; p. 425.
- Wickline, William E., Akron, Ohio. Combined wagon and sled. No. 1,133,207; Mar. 23; Gaz. vol. 212; p. 1311.
- Wicks, Blake O. (See Shirk, Harry M., assignor.)
- Wicks, George. (See Shaw and Wicks.)
- Wickser, John G., *et al.* (See Chrisman, Loran T., assignor.)
- Wickstrom, Maurice, Fitchburg, Mass. Egg-beater. No. 1,124,567; Jan. 12; Gaz. vol. 210; p. 522.
- Widdis, Ethel M., Detroit, Mich. Device for teaching music. No. 1,133,773; Mar. 30; Gaz. vol. 212; p. 1549.
- Widdup, William R., Spartanburg, S. C. Removable bushing. No. 1,124,986; Jan. 12; Gaz. vol. 210; p. 671.
- Widdup, William R., Spartanburg, S. C., assignor to Draper Company, Hopedale, Mass. Warping-machine. No. 1,160,349; Nov. 16; Gaz. vol. 220; p. 766.
- Widgren, Emil H. and K. A. Alby, Sweden. Method of and means for reducing line capacity. No. 1,154,278; Sept. 21; Gaz. vol. 218; p. 746.
- Widgren, Emil H. and K. A. Alby, Sweden. Transmitter for electric writing-telegraphs. No. 1,154,279; Sept. 21; Gaz. vol. 218; p. 746.
- Widgren, Klas A. (See Widgren, Emil H. and K. A.)
- Widell, Magnus E. (See Swangren and Widell.)
- Wideman, Sadie, Niles, Mich. Car-signal. No. 1,141,509; June 1; Gaz. vol. 215; p. 151.
- Widener, James H. (See Curran and Widener.)
- Widger, Frank V., Chicago, Ill. Gearing. No. 1,154,555; Sept. 21; Gaz. vol. 218; p. 840.
- Widlar, Walter L. (See Engle, John F., assignor.)
- Widlöf, Richard, Liverpool, England. Means for supporting covers for dresses and the like. No. 1,165,051; Dec. 21; Gaz. vol. 221; p. 895.
- Widlund, Sven B. (See Hoeglund, Herman, assignor.)
- Widman, Frank J., assignor to W. J. McMillan, Chicago, Ill. Boiler-furnace. No. 1,129,825; Feb. 23; Gaz. vol. 211; p. 1226.
- Widmer, William F., Brackenridge, Pa. Rail-joint. No. 1,140,644; May 25; Gaz. vol. 214; p. 1137.
- Widner, George W., Bradford, Kans. Rail-tie. No. 1,160,227; Nov. 16; Gaz. vol. 220; p. 725.
- Widner, John A., Alpena, Mich. Hose-nozzle support. No. 1,132,816; Mar. 23; Gaz. vol. 212; p. 1171.
- Widney, Stanley W., Chicago, Ill. Pedal attachment. No. 1,132,057; Mar. 16; Gaz. vol. 212; p. 843.
- Widoe, Frederick, South Omaha, Nebr. Hay-knife. No. 1,165,737; Dec. 28; Gaz. vol. 221; p. 1175.
- Wiebke, Charles, Newark, N. J. Branching-machine. No. 1,150,984; Aug. 24; Gaz. vol. 217; p. 1107.
- Wiebke, Louis, New York, N. Y. Rope-guide for dumb-waiter ropes. No. 1,152,775; Sept. 7; Gaz. vol. 218; p. 144.
- Wiebke, Louis, and A. W. Bull, New York, N. Y.; said Bull assignor to said Wiebke. Attachment for dumb-waiter shafts. No. 1,144,516; June 29; Gaz. vol. 215; p. 1327.
- Wiechers, Albert C., New York, N. Y. Card-index. No. 1,147,772; July 27; Gaz. vol. 216; p. 1045.
- Wiechmann, Ferdinand G., New York, assignor to Fenofarm Corporation, Hastings-upon-Hudson, N. Y. Production of anhydrous reaction products of phenol and formaldehyde. No. 1,126,926; Feb. 2; Gaz. vol. 211; p. 92.
- Wiechmann, Ferdinand G., New York, assignor to Fenofarm Corporation, Hastings-upon-Hudson, N. Y. Plastic material. No. 1,135,340; Apr. 13; Gaz. vol. 213; p. 489.
- Wieda, Ernst F. W., Paterson, N. J. Lacteal mixture and making the same. No. 1,159,455; Nov. 9; Gaz. vol. 220; p. 398.
- Wiedeke, Gustav. (See Wiedeke, Otto, assignor.)
- Wiedeke, Otto, Dayton, Ohio. Tube-cutter. No. 1,162,893; Dec. 7; Gaz. vol. 221; p. 55.
- Wiedeke, Otto, assignor of one-half to G. Wiedeke, Dayton, Ohio. Tube-expander. No. 1,124,568; Jan. 12; Gaz. vol. 210; p. 522.
- Wiedeke, Otto, assignor of one-half to G. Wiedeke, Dayton, Ohio. Tube-expander. No. 1,153,662; Sept. 14; Gaz. vol. 218; p. 497.
- Wiedeke, Otto, assignor of one-half to G. Wiedeke, Dayton, Ohio. Boiler-tube expander. No. 1,153,663; Sept. 14; Gaz. vol. 218; p. 497.
- Wiedeman, Henry C., Detroit, Mich. Joint. No. 1,161,430; Nov. 23; Gaz. vol. 220; p. 1198.
- Wiedeman, Henry C., assignor to Enameled Steel Package Corporation, Detroit, Mich. Cask. No. 1,145,106; July 6; Gaz. vol. 216; p. 47.

Alphabetical list of patentees—Continued.

- Wiedeman, Henry C., and F. A. Schaum, Detroit, Mich., assignors, by mesne assignments, to Enameled Steel Package Corporation, Avon, N. Y. Cask. No. 1,133,688; Mar. 30; Gaz. vol. 212; p. 1521.
- Wiedemann, Otto, Demming, Germany. Manufacture of wall-coverings. No. 1,129,933; Mar. 2; Gaz. vol. 212; p. 35.
- Wiedemann, Theodore, and J. H. Templin, assignors, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Vacuum cleaning apparatus. No. 1,145,047; July 6; Gaz. vol. 216; p. 26.
- Wiedemann, Theodore, and J. H. Templin, assignors, by mesne assignments, to Santo Manufacturing Company, Philadelphia, Pa. Vacuum cleaning apparatus. No. 1,145,048; July 6; Gaz. vol. 216; p. 27.
- Wiedersheim, John A., Philadelphia, Pa. Christmas-tree garden. No. 1,135,642; Apr. 13; Gaz. vol. 213; p. 596.
- Wiedling, Carl T. A. H., North Bergen, assignor to The Wiedling Manufacturing Company, North Bergen township, N. J. Propeller. No. 1,127,143; Feb. 2; Gaz. vol. 211; p. 169.
- Wiedling, Carl T. A. H., North Bergen township, Hudson county, assignor to The Wiedling Manufacturing Company, North Bergen, N. J. Propeller. No. 1,129,934; Mar. 2; Gaz. vol. 212; p. 35.
- Wiedling Manufacturing Company, The. (See Wiedling, Carl T. A. H., assignor.)
- Wiedmann, Henry, Newark, N. J. Bracelet. No. 1,142,070; June 8; Gaz. vol. 215; p. 383.
- Wiegand, Edwin L., Canal Dover, Ohio. Apparatus for producing electrical heating devices. No. 1,133,347; Mar. 30; Gaz. vol. 212; p. 1396.
- Wiegand, Edwin L., Canal Dover, Ohio. Producing electrical heating devices. No. 1,136,076; Apr. 20; Gaz. vol. 213; p. 787.
- Wiegand, Edwin L., Youngstown, Ohio. Electrical heating device. No. 1,154,953; Sept. 28; Gaz. vol. 218; p. 1004.
- Wiegand, Frank, *et al.* (See Abbott, Lawrence A., Jr., assignor.)
- Wiegand, Frederick B. (See Buchanan and Wiegand.)
- Wiegand, Henry H., Baltimore, Md. Furnace-screen. No. 1,128,206; Feb. 9; Gaz. vol. 211; p. 580.
- Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Rheostat. No. 1,130,949; Mar. 9; Gaz. vol. 212; p. 419.
- Wiegand, Wilhelm, Merseburg, Germany. Evaporating apparatus. No. 1,145,728; July 6; Gaz. vol. 216; p. 264.
- Wiegert, Paul G., assignor to The W. S. Tyler Company, Cleveland, Ohio. Elevator-door-locking mechanism. No. 1,163,387; Dec. 7; Gaz. vol. 221; p. 228.
- Wiegert, Paul G., assignor to The W. S. Tyler Company, Cleveland, Ohio. Elevator-door-operating mechanism. No. 1,163,578; Dec. 7; Gaz. vol. 221; p. 294.
- Wieland, Frederick A., Chicago, Ill. Speedometer. No. 1,137,822; May 4; Gaz. vol. 214; p. 35.
- Wiemann, William P., Pittsburgh, Pa. Manufacture of pure ice. No. 1,144,312; June 22; Gaz. vol. 215; p. 1230.
- Wierner, Christian, Cuyahoga Falls, Ohio. Milling-machine. No. 1,144,015; June 22; Gaz. vol. 215; p. 1124.
- Wierner, Henry, near Driscoll, N. D. Canvas carrier for harvesters. No. 1,162,270; Nov. 30; Gaz. vol. 220; p. 1536.
- Wiener, Bernhard, Chicago, Ill. Electric-light-bath apparatus. No. 1,162,424; Nov. 30; Gaz. vol. 220; p. 1588.
- Wiener, Joseph, Baltimore, Md. Switch-throwing device. No. 1,135,238; Apr. 13; Gaz. vol. 213; p. 453.
- Wiener, Paul, New York, N. Y. Iron stand. No. 1,136,455; Apr. 20; Gaz. vol. 213; p. 924.
- Wienicki, Joseph, *et al.* (See Gepack, Paul, assignor.)
- Wier, Harry B., Plainfield, N. J., assignor to Western Electric Company, New York, N. Y. Telephone-receiver. No. 1,148,941; Aug. 3; Gaz. vol. 217; p. 161.
- Wierum, Howard F., Upper Montclair, N. J. Ore-furnace. No. 1,162,894; Dec. 7; Gaz. vol. 221; p. 56.
- Wiesche & Scharffe. (See Zins, Johann, assignor.)
- Wiese, Carl H. L., Neumünster, Germany. Apparatus for scouring greasy materials and recovering the solvent. No. 1,160,481; Nov. 16; Gaz. vol. 220; p. 813.
- Wiese, Theodore L., assignor of one-third to J. Froelich and one-third to L. B. Lamfrom, Milwaukee, Wis. Lighter for gas-stoves. No. 1,128,644; Feb. 16; Gaz. vol. 211; p. 781.
- Wieselgreen, Carl E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Electrically-insulated bearing. No. 1,152,680; Sept. 7; Gaz. vol. 218; p. 111.
- Wieselgreen, Carl E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Insulated roller-bearing. No. 1,152,681; Sept. 7; Gaz. vol. 218; p. 111.
- Wiesener, Johann H. A., Hamburg, Germany. Drier for yeast and the like. No. 1,129,031; Feb. 16; Gaz. vol. 211; p. 918.
- Wiesenfeld, Herman, West Berkeley, Cal. Vehicle-fender. No. 1,147,992; July 27; Gaz. vol. 216; p. 1123.
- Wiesenfeld, Herman, West Berkeley, Cal. Street-car reversible seat. No. 1,158,612; Nov. 2; Gaz. vol. 220; p. 72.
- Wiesenfeld, Robert S., Baltimore, Md. Fish-hook spreader. No. 1,123,636; Jan. 5; Gaz. vol. 210; p. 150.
- Wieser, Egidius, Passaic, N. J. Attachment for oil-cloth machines. No. 1,156,195; Oct. 12; Gaz. vol. 219; p. 327.
- Wiesinger, Arthur. (See Käfer and Wiesinger.)
- Wiesner, Oscar C., Kansas City, Mo. Vending-machine. No. 1,134,305; Apr. 6; Gaz. vol. 213; p. 81.
- Wiest, Fred. (See Pugsley, William E., assignor.)
- Wiet, Eugene, assignor to Parrott & Company, San Francisco, Cal. Machine for manufacturing steel studding. No. 1,141,595; June 1; Gaz. vol. 215; p. 181.
- Wigelius, Sven, assignor to Aktiebolaget Wigelius Motorer, Stockholm, Sweden. Gas-motor. No. 1,135,418; Apr. 13; Gaz. vol. 213; p. 516.
- Wigelius, Sven G., assignor to Aktiebolaget Wigelius Motorer, Stockholm, Sweden. Fuel-sprayer. No. 1,130,229; Mar. 2; Gaz. vol. 212; p. 135.
- Wigelius, Sven G., Gottenborg, assignor to A. Andersson, Stockholm, and T. Carlander, Gottenborg, Sweden. Mine or the like. No. 1,138,269; May 4; Gaz. vol. 214; p. 191.
- Wiggen, Peder, assignor of one-half to O. Nelson, Chicago, Ill. Pneumatic musical instrument. No. 1,136,190; Apr. 20; Gaz. vol. 213; p. 827.
- Wiggin, Joseph N., East Orange, N. J. Woven-fabric covering and making the same. No. 1,124,037; Jan. 5; Gaz. vol. 210; p. 302.
- Wiggins, Dudley H., Washington township, Marion county, Ind. Game. No. 1,160,024; Nov. 9; Gaz. vol. 220; p. 599.
- Wiggins, Edgar S. (See Newell, Hattie L., assignor.)
- Wiggins, James W., *et al.* (See Staley, Thomas F., assignor.)
- Wigington, George P., Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 1,136,572; Apr. 20; Gaz. vol. 213; p. 965.
- Wigington, George P., Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 1,136,573; Apr. 20; Gaz. vol. 213; p. 966.
- Wigington, George P., Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 1,140,929; May 25; Gaz. vol. 214; p. 1237.
- Wigington, George P., Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 1,143,006; June 15; Gaz. vol. 215; p. 749.
- Wigington, George P., Kalamazoo, Mich. Binder device. No. 1,150,471; Aug. 17; Gaz. vol. 217; p. 872.
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 1,150,472; Aug. 17; Gaz. vol. 217; p. 873.
- Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Absolute permissive block-signal system. No. 1,134,982; Apr. 6; Gaz. vol. 213; p. 322.
- Wightman & Hough Co. (See Hough, Edward B., assignor.)
- Wightman, Robert J., Newark, and W. B. Powell, East Orange, N. J. Moistening device. No. 1,139,942; May 18; Gaz. vol. 214; p. 854.
- Wigle, Wilson B., Fullerton, assignor of one-half to Regan Oil Tool Company, Sherman, Cal. Head for well-casings. No. 1,144,626; June 29; Gaz. vol. 215; p. 1364.
- Wigmore, William J. (See Spencer, Warnholz, and Wigmore.)
- Wihs, Georg O., Kleinschmalkalden, and O. Petri, Stuttgart, assignors to Daimler-Motoren-Gesellschaft, Unter-türkheim, near Stuttgart, Germany. Motor-plow. No. 1,148,420; July 27; Gaz. vol. 216; p. 1275.
- Wiitala, Gust, Ontonagon, Mich. Lock. No. 1,134,791; Apr. 6; Gaz. vol. 213; p. 259.
- Wikander, Oscar R., Pittsburgh, Pa. Valve. No. 1,147,350; July 20; Gaz. vol. 216; p. 870.
- Wikander, Oscar R., Pittsburgh, Pa. Unloading system for air-compressors. No. 1,150,915; Aug. 24; Gaz. vol. 217; p. 1084.
- Wikel, Henry S., York, Pa. Shoe-sewing-machine attachment. No. 1,147,061; July 20; Gaz. vol. 216; p. 771.
- Wiking, Henrik and C. G. Söderlund, Gottenborg, Sweden. Ball-bearing. No. 1,136,077; Apr. 20; Gaz. vol. 213; p. 787.
- Wil Bar Manufacturing Company. (See Barcy, William W., Jr., assignor.)
- Wilber, Charles, Minneapolis, Minn. Engine-support. No. 1,127,708; Feb. 9; Gaz. vol. 211; p. 404.
- Wilbur, Lawrence H., assignor to H. O. Wilbur & Sons, Inc., Philadelphia, Pa. Wrapping-machine. No. 1,131,881; Mar. 16; Gaz. vol. 212; p. 779.
- Wilbur, Lewis A., Gloversville, assignor of one-half to G. B. Cone, Amsterdam, N. Y. Escutcheon-plate. No. 1,137,823; May 4; Gaz. vol. 214; p. 35.
- Wilbur, Merritt D., Rochester, assignor of one-half to F. P. Cannon, Syracuse, N. Y. Carbonizing or pack-hardening box. No. 1,156,647; Oct. 12; Gaz. vol. 219; p. 487.
- Wilbur, Peter L., *et al.* (See MacGregor, Peter G., assignor.)
- Wilbur, Ray S., Jersey City, N. J., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Automatic telephone system. No. 1,157,745; Oct. 26; Gaz. vol. 219; p. 964.
- Wilbur, Samuel P., Pittsburgh, Pa., assignor, by mesne assignments, to Helion Electric Company. Embedding material for electrical heating units. No. 1,125,615; Jan. 19; Gaz. vol. 210; p. 930.

Alphabetical list of patentees—Continued.

- Wilbur, Samuel P., Pittsburgh, Pa., assignor, by mesne assignments, to Helion Electric Company. Embedding material for electrical heating units. No. 1,125,616; Jan. 19; Gaz. vol. 210; p. 930.
- Wilburn, Hugh H., assignor of one-third to F. E. Butler, Lewiston, Idaho. Lubricating system for gas-engines. No. 1,125,238; Jan. 19; Gaz. vol. 210; p. 797.
- Wilke-Armstrong Company, The. (See Christian, Gilbert, assignor.)
- Wilken, Charles H., Indianapolis, Ind. Vehicle-spring. (Reissue.) No. 13,955; July 27; Gaz. vol. 216; p. 1304.
- Wilkes, Martin, Wilkes Co. (See Kressel, Edward C. L., assignor.)
- Wilcomb, Frank, Norristown, Pa., assignor to Hemphill Manufacturing Company, Central Falls, R. I. Circular-knitting machine. No. 1,129,261; Feb. 23; Gaz. vol. 211; p. 1033.
- Wilcomb, Frank, Norristown, Pa., assignor to Hemphill Manufacturing Company, Central Falls, R. I. Circular-knitting machine. No. 1,131,583; Mar. 9; Gaz. vol. 212; p. 637.
- Wilcomb, Frank, Norristown, Pa., assignor to Hemphill Manufacturing Company, Central Falls, R. I. Pick mechanism for knitting-machines. No. 1,158,351; Oct. 26; Gaz. vol. 219; p. 1175.
- Wilcomb, Frank, Pawtucket, assignor to Hemphill Manufacturing Company, Central Falls, R. I. Circular-knitting machine. No. 1,129,262; Feb. 23; Gaz. vol. 211; p. 1034.
- Wilcox, Charles E. (See Willard and Wilcox.)
- Wilcox, Daniel A., Garden City, N. Y., assignor to Morgan & Wright. Tire-builder's tool. No. 1,162,425; Nov. 30; Gaz. vol. 220; p. 1588.
- Wilcox, Edson B., Meriden, Conn. Electrical connector. No. 1,159,456; Nov. 9; Gaz. vol. 220; p. 398.
- Wilcox, Edward A., Carthage, Ill. Pneumatic cushion for automobiles. No. 1,140,645; May 25; Gaz. vol. 214; p. 1137.
- Wilcox, Elbert F., Kansas City, Mo. Concrete pavement. No. 1,134,306; Apr. 6; Gaz. vol. 213; p. 82.
- Wilcox, Ernest C., assignor to The Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Electrical ignition apparatus. No. 1,138,522; May 4; Gaz. vol. 214; p. 280.
- Wilcox, Floyd, Dayton, Ohio. Ratchet extension and protector for micrometer-calipers. No. 1,143,007; June 15; Gaz. vol. 215; p. 750.
- Wilcox, Frank E., Mechanicsburg, Pa. Vehicle-gear. No. 1,128,276; Feb. 9; Gaz. vol. 211; p. 605.
- Wilcox, Frank E., Mechanicsburg, Pa. Hanger-bar and body-loop. No. 1,130,869; Mar. 9; Gaz. vol. 212; p. 392.
- Wilcox, Frank E., Mechanicsburg, Pa. Means for attaching body-loops to hanger-bars. No. 1,164,042; Dec. 14; Gaz. vol. 221; p. 504.
- Wilcox, Frank E., Mechanicsburg, Pa. Spring. No. 1,164,969; Dec. 21; Gaz. vol. 221; p. 867.
- Wilcox, Guy M. (See English and Wilcox.)
- Wilcox, Jay, Rothbury, Mich. Tree-sprayer. No. 1,135,341; Apr. 13; Gaz. vol. 213; p. 489.
- Wilcox, Jay, Grand Rapids, Mich. Valve for spraying-machines. No. 1,135,342; Apr. 13; Gaz. vol. 213; p. 489.
- Wilcox, Lewis T., Peekskill, N. Y. Wick-raising device for oil-burners. No. 1,128,740; Feb. 16; Gaz. vol. 211; p. 814.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Blank-holding mechanism. No. 1,132,698; Mar. 23; Gaz. vol. 212; p. 1126.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Feed mechanism. No. 1,135,239; Apr. 13; Gaz. vol. 213; p. 453.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Die. No. 1,147,994; July 27; Gaz. vol. 216; p. 1123.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Connection. No. 1,157,072; Oct. 19; Gaz. vol. 219; p. 665.
- Wilcox, Richard L., and G. F. Byam, assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating-machine. No. 1,147,993; July 27; Gaz. vol. 216; p. 1123.
- Wilcox, Richard L., and Z. P. Carjee, assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Making bullets or other articles of manufacture. No. 1,149,485; Aug. 10; Gaz. vol. 217; p. 458.
- Wilcox & White Company, The. (See White, Frank C., assignor.)
- Wilcox, William H., Cleveland, Ohio. Sand pipe and valve for locomotives or cars. No. 1,164,562; Dec. 14; Gaz. vol. 221; p. 634.
- Wilcox, William L., and T. G. Rakestraw, assignors to Duplex Steam Trap Manufacturing Company, Detroit, Mich. Steam-trap. No. 1,137,102; Apr. 27; Gaz. vol. 213; p. 1190.
- Wilcoxon, Charles S., Oakland, Cal. Ring. No. 1,128,084; Feb. 9; Gaz. vol. 211; p. 539.
- Wild, Adolf, Corona, N. Y. Clothes-pin. No. 1,134,710; Apr. 6; Gaz. vol. 213; p. 229.
- Wild, Charles M. (See Heins and Wild.)
- Wild, Francis J., Jr., and A. J. Gettinger, St. Louis, Mo. Sterilized brush. No. 1,142,386; June 8; Gaz. vol. 215; p. 494.
- Wild, Frederick W., Jr., Baltimore, Md., assignor to Burt Machine Company. Labeling-machine. No. 1,152,252; Aug. 31; Gaz. vol. 217; p. 1587.
- Wild, Frederick W., Jr., Baltimore, Md., assignor to Burt Machine Company. Machine for casing or boxing cans. No. 1,152,997; Sept. 7; Gaz. vol. 218; p. 227.
- Wild, Gottlob L., Linden, N. J. Mangle-table. No. 1,155,179; Sept. 28; Gaz. vol. 218; p. 1085.
- Wild, Heinrich, assignor to Firm of C. Zeiss, Jena, Germany. Leveling instrument. No. 1,160,228; Nov. 16; Gaz. vol. 220; p. 725.
- Wild, Wilhelm. (See Bosch and Wild.)
- Wildberg, Henry, Cincinnati, Ohio. Box and case. No. 1,133,076; Mar. 23; Gaz. vol. 212; p. 1265.
- Wilde, Frank B., and M. W. Lawlor, Boston, Mass. Drinking-fountain for poultry. No. 1,150,159; Aug. 17; Gaz. vol. 217; p. 764.
- Wilder, Asaph, Byron, Cal. Smoke and fume condenser. No. 1,162,325; Nov. 30; Gaz. vol. 220; p. 1555.
- Wilder, Clinton E., assignor to National Forge and Tool Company, Erie, Pa. Core-drill. No. 1,145,822; July 6; Gaz. vol. 216; p. 296.
- Wilder, James H., Randall, Kans. Target-trap. No. 1,162,118; Nov. 30; Gaz. vol. 220; p. 1484.
- Wilder, Julian, Augusta, Me. Trolley-wheel mount. No. 1,130,359; Mar. 2; Gaz. vol. 212; p. 179.
- Wilder, Julian, Augusta, Me. Trolley-wheel mount. No. 1,130,360; Mar. 2; Gaz. vol. 212; p. 179.
- Wilder, Julian, Augusta, Me. Trolley-wheel mount. No. 1,136,574; Apr. 20; Gaz. vol. 213; p. 966.
- Wilder, Solon, administrator. (See Wilder and White.)
- Wilder, Squier, Huntingdon, Tenn. Cultivator. No. 1,131,303; Mar. 9; Gaz. vol. 212; p. 541.
- Wilder-Strong Implement Company. (See Stoner, Frank H., assignor.)
- Wilder, William H., deceased, and F. E. White; S. Wilder, administrator, Gardner, Mass. Oven. No. 1,155,180; Sept. 28; Gaz. vol. 218; p. 1085.
- Wilder, William H., deceased, (S. Wilder, administrator,) and F. E. White, Gardner, Mass. Oven. No. 1,161,365; Nov. 23; Gaz. vol. 220; p. 1175.
- Wilderson, Clinton G., assignor to The Crescent Machine Company, Leetonia, Ohio. Cutter-head. No. 1,147,473; July 20; Gaz. vol. 216; p. 915.
- Wilderspin, Alfred K., Grand Saline, Tex. Combined and-irons and grate. No. 1,127,333; Feb. 2; Gaz. vol. 211; p. 233.
- Wildman, Frank B., assignor to Wildman Mfg. Company, Norristown, Pa. Self-compensating dogs for circular-knitting machines. No. 1,166,290; Dec. 28; Gaz. vol. 221; p. 1372.
- Wildman, Frank B., and G. L. Ballard, Norristown, Pa., assignors to Wildman Mfg. Co. Tubular-welt-knitting machine. No. 1,127,334; Feb. 2; Gaz. vol. 211; p. 233.
- Wildman, Frank B., and G. L. Ballard, Norristown, Pa., assignors to Wildman Mfg. Co. Knitting-machine. No. 1,127,335; Feb. 2; Gaz. vol. 211; p. 233.
- Wildman, Frank B., and G. L. Ballard, assignors to Wildman Mfg. Co., Norristown, Pa. Welt-knitting machine. No. 1,140,783; May 25; Gaz. vol. 214; p. 1181.
- Wildman, Frank B., and G. L. Ballard, assignors to Wildman Mfg. Company, Norristown, Pa. Knitting-machine. No. 1,140,784; May 25; Gaz. vol. 214; p. 1182.
- Wildman, Frank B., and G. L. Ballard, Norristown, Pa., assignors to Wildman Mfg. Co. Stop mechanism for knitting-machines. No. 1,144,273; June 22; Gaz. vol. 215; p. 1216.
- Wildman, Frank B., and G. L. Ballard, Norristown, Pa., assignors to Wildman Mfg. Co. Thread-guide. No. 1,153,742; Sept. 14; Gaz. vol. 218; p. 526.
- Wildman, Frank B., and G. L. Ballard, Norristown, Pa., assignors to Wildman Mfg. Co. Welt-knitting machine. No. 1,166,289; Dec. 28; Gaz. vol. 221; p. 1371.
- Wildman Mfg. Co. (See Ballard, George L., assignor.)
- Wildman Mfg. Co. (See Bortman, Emanuel W., assignor.)
- Wildman Mfg. Company. (See Wildman, Frank B., assignor.)
- Wildman Mfg. Co. (See Wildman and Ballard, assignors.)
- Wildsche Buchdruckerei Gebr. Parcus. (See Amrhein, Georg, assignor.)
- Wildt, Edward A., Scranton, Pa. Grate-bar section. No. 1,138,339; May 4; Gaz. vol. 214; p. 218.
- Wildy, Alexander C., New Athens, Ill. Metallic railway-tie. No. 1,160,229; Nov. 16; Gaz. vol. 220; p. 725.
- Wildy, Théophile, Rielesfeld, Germany. Spray-carburetor. No. 1,131,584; Mar. 9; Gaz. vol. 212; p. 637.
- Wile, Raymond S. (See McNabb and Wile.)
- Wile, William W., Bluffton, Ind. Carbon-holder. No. 1,127,558; Feb. 9; Gaz. vol. 211; p. 353.
- Wiles, John O., Orleans, Nebr. Sanitary candy-pail rack. No. 1,138,340; May 4; Gaz. vol. 214; p. 218.
- Wilesmith, Alfred J. K., Leigh, assignor of one-half to W. H. Leeke, Worcester, England. Apparatus for heating the combustible charges of internal-combustion engines. No. 1,151,503; Aug. 24; Gaz. vol. 217; p. 1283.
- Wiley, Alexander A., Bannock, Ohio. Moistening device. No. 1,158,090; Oct. 26; Gaz. vol. 219; p. 1085.

Alphabetical list of patentees—Continued.

- Wiley, Charles J., Yorktown, N. Y. Printing-telegraph. No. 1,146,985; July 20; Gaz. vol. 216; p. 744.
- Wiley, Charles L., Atlanta, Ga. Cover-holder for children's beds. No. 1,130,781; Mar. 9; Gaz. vol. 212; p. 362.
- Wiley, John I., assignor of two-thirds to Wiley-Spencer Company and one-third to C. H. Rundel, Los Angeles, Cal. Design-form. No. 1,125,423; Jan. 19; Gaz. vol. 210; p. 864.
- Wiley, John S., Hillsboro, Ill. Deflating-tool for pneumatic tires. No. 1,140,222; May 18; Gaz. vol. 214; p. 953.
- Wiley, Roy R., Buffalo, N. Y. Illuminated sign. No. 1,123,969; Jan. 5; Gaz. vol. 210; p. 261.
- Wiley, Roy R., Buffalo, N. Y., and W. S. Hough, Jr., St. Catharines, Ontario, Canada. Making glass letters. No. 1,146,910; July 20; Gaz. vol. 216; p. 717.
- Wiley-Spencer Company *et al.* (See Wiley, John I., assignor.)
- Wiley, Thomas F., *et al.* (See Dawson, Robert C., assignor.)
- Wilgus, Charles V. (See Klink, Wilgus and Bickford.)
- Wilgus, Charles V., Kingston, assignor to The Adder Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,133,596; Mar. 30; Gaz. vol. 212; p. 1486.
- Wilgus, Charles V., Kingston, assignor to The Adder Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,150,916; Aug. 24; Gaz. vol. 217; p. 1084.
- Wilgus, Harry, Philadelphia, Pa. Damper-controlling mechanism. No. 1,137,369; Apr. 27; Gaz. vol. 213; p. 1289.
- Wilhelm, Jacob A., Detroit, Mich. Signal apparatus for motor-vehicles. No. 1,142,650; June 8; Gaz. vol. 215; p. 585.
- Wilkins, Otto J., Minneapolis, Minn. Fly-catcher. No. 1,137,370; Apr. 27; Gaz. vol. 213; p. 1289.
- Wilkinson, Charles J., Leonard, Tex. Water tank and filter. No. 1,152,998; Sept. 7; Gaz. vol. 218; p. 227.
- Wilkinson, George W., Rogersville, Mo. Fish-trap. No. 1,146,911; July 20; Gaz. vol. 216; p. 717.
- Wilkinson, J. W. (See Choate and Carroll, assignors.)
- Wilkes, Samuel G., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Handle for tea and coffee pots. No. 1,162,426; Nov. 30; Gaz. vol. 220; p. 1588.
- Wilkie, John, Crosshill, Glasgow, Scotland. Electric coupling or connector. No. 1,132,294; Mar. 16; Gaz. vol. 212; p. 931.
- Wilkin, Joseph A., Matamoras, Pa. Variable-speed-transmission apparatus. No. 1,136,636; Apr. 20; Gaz. vol. 213; p. 986.
- Wilkins, Frederick M., Dorchester, assignor of one-half to C. R. Brainerd, Cambridge, Mass. Supporter. No. 1,155,856; Oct. 5; Gaz. vol. 219; p. 186.
- Wilkins, Harry, Evansville, assignor of one-fourth to W. H. Redman, one-fourth to W. M. Smith, and one-half to J. P. Wilson, Vanderburg county, Ind. Train-controlled electric recording crossing-signal. No. 1,155,535; Oct. 5; Gaz. vol. 219; p. 74.
- Wilkins, William T., Shelley, Idaho. Airship. No. 1,130,125; Mar. 2; Gaz. vol. 212; p. 98.
- Wilkinson, Adolfo, Bahia Blanca, Argentina. Switch for tramways and the like. No. 1,158,878; Nov. 2; Gaz. vol. 220; p. 165.
- Wilkinson, Charles C., Salem, Ohio. Fluid-motor. No. 1,166,028; Dec. 28; Gaz. vol. 221; p. 1275.
- Wilkinson, Elmer E. (See Aronson, Saul, assignor.)
- Wilkinson, Elmer E., and S. Aronson, New York, N. Y.; said Aronson assignor to said Wilkinson. Automatic spring-winding mechanism for clocks. No. 1,125,617; Jan. 19; Gaz. vol. 210; p. 931.
- Wilkinson, Ephraim M. (See Wilkinson, Henry, assignor.)
- Wilkinson, Frank B., *et al.* (See Hayes, Thomas F., assignor.)
- Wilkinson, Frederick, Toronto, Ontario, Canada. Coaster-brake. No. 1,133,774; Mar. 30; Gaz. vol. 212; p. 1550.
- Wilkinson, Frederick, Glazenwood, near Braintree, England. Stamping mechanism. No. 1,140,013; May 18; Gaz. vol. 214; p. 881.
- Wilkinson, Frederick, Glazenwood, near Braintree, England. Mechanism for the stamping of letters, post-cards, and the like. No. 1,140,014; May 18; Gaz. vol. 214; p. 881.
- Wilkinson, Henry, Hartford, assignor to E. M. Wilkinson, Bridgeport, Conn. Steam-boiler of the vertical water-tube type. No. 1,152,135; Aug. 31; Gaz. vol. 217; p. 1548.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Means for increasing the velocity of fluids for metering purposes. No. 1,145,222; July 6; Gaz. vol. 216; p. 85.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Indicating-meter for fluids. No. 1,147,995; July 27; Gaz. vol. 216; p. 1124.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Meter apparatus. No. 1,159,817; Nov. 9; Gaz. vol. 220; p. 527.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Flow-meter. No. 1,160,679; Nov. 16; Gaz. vol. 220; p. 886.
- Wilkinson, James, Boston, Mass., assignor to General Electric Company. Means for regulating the supply of liquid to vapor-generators. No. 1,154,467; Sept. 21; Gaz. vol. 218; p. 811.
- Wilkinson, John, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Air-cooling system for internal-combustion engines. No. 1,159,633; Nov. 9; Gaz. vol. 220; p. 460.
- Wilkinson, Newton C. (See Williams, Foster, and Wilkinson.)
- Wilkinson, Noah, Lewiston, assignor of one-half to A. Cushman, Jr., Auburn, Me. Ship steering-gear. No. 1,155,022; Sept. 28; Gaz. vol. 218; p. 1027.
- Wilkinson, William S., Fox Chase, Pa., assignor to American Engineering Company. Steering-gear. No. 1,155,181; Sept. 28; Gaz. vol. 218; p. 1085.
- Wilkoif, Isaac, *et al.* (See Hughes, Hugh T., assignor.)
- Wilkoif, Leo S., *et al.* (See Hughes, Hugh T., assignor.)
- Wilkosz, Wladyslaw. (See Spiradek, Kalisz, and Wilkosz.)
- Wilks, Allen T. (See Culp and Wilks.)
- Wilks, Charley H., Argenta, Ark. Templet. No. 1,135,089; Apr. 13; Gaz. vol. 213; p. 403.
- Wilks, Edward J., and W. J. Drey, Carlisle, Pa. Heel-breasting apparatus. No. 1,125,239; Jan. 19; Gaz. vol. 210; p. 797.
- Will, Arthur C., Salt Lake City, Utah. Handle-lock. No. 1,134,792; Apr. 6; Gaz. vol. 213; p. 259.
- Will, John M., Oakes, N. D. Harvester attachment for tractors. No. 1,148,644; Aug. 3; Gaz. vol. 217; p. 58.
- Willard, Arthur G., Los Angeles, and C. E. Wilcox, Bakersfield; said Wilcox assignor to W. W. Wilson, Los Angeles, Cal. Well-boring apparatus. No. 1,149,486; Aug. 10; Gaz. vol. 217; p. 458.
- Willard, Donald E., Danville, Ill. Door-check. No. 1,140,320; May 18; Gaz. vol. 214; p. 986.
- Willard, Donald E., Danville, Ill. Door-check. No. 1,140,321; May 18; Gaz. vol. 214; p. 987.
- Willard, Donald E., Danville, Ill. Door-hanger. No. 1,155,390; Oct. 5; Gaz. vol. 219; p. 23.
- Willard, Edward G., Hamilton, Ontario, Canada. Apparatus for forming hollow ware of paper. No. 1,151,843; Aug. 31; Gaz. vol. 217; p. 1447.
- Willard, Orson H., Cottage Grove, Oreg. Door securer, bolder, or fastener. No. 1,154,822; Sept. 28; Gaz. vol. 218; p. 960.
- Willard, Orson H., Cottage Grove, Oreg. Emergency-windlass for automobiles. No. 1,156,648; Oct. 12; Gaz. vol. 219; p. 487.
- Willard Storage Battery Company, The. (See Willard, Theodore A., assignor.)
- Willard, Theodore A., assignor to The Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,150,917; Aug. 24; Gaz. vol. 217; p. 1085.
- Willard, Theodore A., assignor to The Willard Storage Battery Company, Cleveland, Ohio. Connector for storage batteries. No. 1,150,918; Aug. 24; Gaz. vol. 217; p. 1085.
- Willard, Theodore A., assignor to The Willard Storage Battery Company, Cleveland, Ohio. Storage-battery connector. No. 1,150,919; Aug. 24; Gaz. vol. 217; p. 1085.
- Willard, Theodore A., assignor to The Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,151,077; Aug. 24; Gaz. vol. 217; p. 1138.
- Willard, Theodore A., assignor to The Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,166,101; Dec. 28; Gaz. vol. 221; p. 1300.
- Willard, Theodore A., assignor to The Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,166,102; Dec. 28; Gaz. vol. 221; p. 1301.
- Willard, Will W., Saginaw, Mich. Railway-tie. No. 1,130,455; Mar. 2; Gaz. vol. 212; p. 215.
- Wilcox, George B. (See Lowry, Frederick N., assignor.)
- Wilcox & Gibbs Sewing Machine Co. (See Merritt, Arthur A., assignor.)
- Wilcox & Gibbs Sewing Machine Co. (See Osterhout, Garret B., assignor.)
- Wilcox, James E., Malden, Mass., assignor to F. Wear, Gilmanton, N. H. Clutch. No. 1,131,641; Mar. 9; Gaz. vol. 212; p. 660.
- Wilcox, Myron K., Oxford, N. Y. Device for cooling fluids and the like. No. 1,126,149; Jan. 26; Gaz. vol. 210; p. 1155.
- Wille, Henry V., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Stay-bolt. No. 1,154,468; Sept. 21; Gaz. vol. 218; p. 811.
- Wille, Henry V., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Stay-bolt. No. 1,154,469; Sept. 21; Gaz. vol. 218; p. 811.
- Wille, Henry V., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Stay-bolt. (Reissue.) No. 14,036; Dec. 21; Gaz. vol. 221; p. 1010.
- Willemin, John R., Akron, Ohio. Fire-pot for hot-air heating-furnaces. No. 1,154,901; Sept. 28; Gaz. vol. 218; p. 986.
- Willems, Max, New York, N. Y. Machine for cleaning crude fuel-oil. No. 1,150,086; Aug. 17; Gaz. vol. 217; p. 736.
- Willens, Samuel, Chicago, Ill. Mailing-folder. No. 1,130,782; Mar. 9; Gaz. vol. 212; p. 362.
- Willers, Carl, Chicago, Ill. Tack-driver. No. 1,127,838; Feb. 9; Gaz. vol. 211; p. 453.

Alphabetical list of patentees—Continued.

- Willet, Nicholas M., Detroit, Mich. Clamp for forming sheet-metal shapes. No. 1,154,224; Sept. 21; Gaz. vol. 218; p. 726.
- Willet, Trefley E., Marseilles, Ill. Lubricating apparatus. No. 1,134,656; Apr. 6; Gaz. vol. 213; p. 210.
- Willets, William C., Minneapolis, Minn. Flexible box. No. 1,124,088; Jan. 5; Gaz. vol. 210; p. 302.
- Willets, William C., Minneapolis, Minn. Shipping-box. No. 1,130,230; Mar. 2; Gaz. vol. 212; p. 135.
- Willets, William C., Minneapolis, Minn. Folding box. No. 1,144,803; June 29; Gaz. vol. 215; p. 1427.
- Willets, William C., Minneapolis, Minn. Folding box. No. 1,144,804; June 29; Gaz. vol. 215; p. 1427.
- Willett, Alfred H., West New York, N. J., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive baffle-wall. No. 1,143,095; June 15; Gaz. vol. 215; p. 781.
- Willett, George J., Milwaukee, Wis. Car-coupling. No. 1,140,223; May 18; Gaz. vol. 214; p. 953.
- Willett, George J., Milwaukee, Wis. Safety-lock for belt-shifters. No. 1,165,738; Dec. 28; Gaz. vol. 221; p. 1176.
- Willett, Guy L. (See Conner and Willett.)
- Willey, Charles A., Battle Creek, Mich. Vulcanizing device. No. 1,162,535; Nov. 30; Gaz. vol. 220; p. 1627.
- Willey, Charles E., assignor to Jas. Clark, Jr., Electric Co., Louisville, Ky. Automobile or train lighting system. No. 1,143,008; June 15; Gaz. vol. 215; p. 750.
- Willey, Frank W., Boston, and W. Galletly, Melrose, assignors to Carbon-Oxygen Gas Engine Company, Boston, Mass. Two-cycle engine. No. 1,138,919; May 11; Gaz. vol. 214; p. 458.
- Willhardt, Adam, Elizabeth, N. J. Number-plate holder for motor-vehicles. No. 1,142,002; June 8; Gaz. vol. 215; p. 358.
- Willhoite, Elmer T., Woodruff, Mo. Screen-door construction. No. 1,159,144; Nov. 2; Gaz. vol. 220; p. 253.
- William Carter Co., The. (See Carter, Horace A., assignor.)
- William Carter Co., The. (See Perkins, Alvah L., assignor.)
- William Cramp & Sons Ship & Engine Building Company, The. (See Metten, John F., assignor.)
- William Cramp & Sons Ship & Engine Building Company. (See Pierce, George A., assignor.)
- William Davies Company, The, *et al.* (See Cohoe, Wallace P., assignor.)
- William Forsyth & Sons Company. (See Forsyth, William R., assignor.)
- William Galloway Company, The. (See Cox, John R., assignor.)
- William Galloway Company. (See Jackson, Albert R., assignor.)
- William Lane, Inc. (See Delbon, Frank G., assignor.)
- William M. Crane Company. (See O'Dowd, Henry W., assignor.)
- William Mann Company. (See Eckelmeyer, Frederick W., assignor.)
- William Schollhorn Company, The. (See Bernard, William A., assignor.)
- William Sellers & Company. (See Kneass, Strickland L., assignor.)
- William Shakespeare, Jr., Company. (See Shakespeare, William, Jr., assignor.)
- William Shakespeare Jr. Company. (See Shakespeare and Schmid, assignors.)
- William Tod Company, The. (See Helander, Eaton, and Collier, assignors.)
- William Tod Company, The. (See McBane, Walter W., assignor.)
- William Tod Company, The. (See Woodard, Louis A., assignor.)
- William Tonk & Bro. (See Stahl, August, assignor.)
- William Underwood Company. (See Cleveland, Francis D., assignor.)
- William Wharton, Jr., & Company. (See Angerer, Victor, assignor.)
- Williams, Alexander E., Cleveland, Ohio. Collapsible core. No. 1,162,961; Dec. 7; Gaz. vol. 221; p. 79.
- Williams, Alexander S. (See Coe, Harry P., assignor.)
- Williams, Alfonso L., Los Angeles, Cal. Trolley-head. No. 1,130,361; Mar. 2; Gaz. vol. 212; p. 180.
- Williams, Alfred and L. D., London, England. Contrivance for automatically detecting the presence of certain gases and vapors. No. 1,143,473; June 15; Gaz. vol. 215; p. 914.
- Williams, Andrew B., Albertville, Ala. Scrubbing-brush. No. 1,160,482; Nov. 16; Gaz. vol. 220; p. 813.
- Williams, Andrew M., Dallas, Tex. Automatic weighing-scale. No. 1,126,164; Jan. 26; Gaz. vol. 210; p. 1160.
- Williams, Archie, Climax, Minn. Cooling system for tractors. No. 1,138,433; May 4; Gaz. vol. 214; p. 251.
- Williams, Arthur. (See Williams, Edward T., assignor.)
- Williams, Bella D., executrix. (See Williams, David S.)
- Williams, Benjamin F., Grand Rapids, Mich. Safety apparatus for railway-cars. No. 1,141,737; June 1; Gaz. vol. 215; p. 230.
- Williams, Benjamin F., and J. W. Mayfield, Bluffdale, Tex. Drill-support. No. 1,161,097; Nov. 23; Gaz. vol. 220; p. 1077.
- Williams, Benjamin P., *et al.* (See Cox, Thomas E., assignor.)
- Williams, Benjamin R., English, Ark. Lining for fire-places. No. 1,136,856; Apr. 20; Gaz. vol. 213; p. 1065.
- Williams, Bennett S., Knoxville, Tenn. Wooden building. No. 1,126,927; Feb. 2; Gaz. vol. 211; p. 92.
- Williams, Bennett S., Knoxville, Tenn. Silo. No. 1,129,436; Feb. 23; Gaz. vol. 211; p. 1095.
- Williams, Byron H., Spokane, Wash. Harness-rolling apparatus. No. 1,131,763; Mar. 16; Gaz. vol. 212; p. 736.
- Williams, Carl H., Buffalo, N. Y. Ventilator. No. 1,128,085; Feb. 9; Gaz. vol. 211; p. 540.
- Williams, Carl S., New York, N. Y., assignor to Revere Rubber Company. Heated form for rubber-dipped goods. No. 1,163,053; Dec. 7; Gaz. vol. 221; p. 111.
- Williams, Charles C., Findlay, Ohio. Automobile-jack. No. 1,137,684; Apr. 27; Gaz. vol. 213; p. 1394.
- Williams, Charles D., New York, N. Y. Convertible automobile-body. No. 1,151,314; Aug. 24; Gaz. vol. 217; p. 1219.
- Williams, Charles D., New York, N. Y. Collapsible automobile-top. No. 1,151,315; Aug. 24; Gaz. vol. 217; p. 1219.
- Williams, Charles E., Chicago, Ill. Audiphone-transmitter stand and sounding-board. No. 1,125,424; Jan. 19; Gaz. vol. 210; p. 864.
- Williams, Charles F., New Haven, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Package for table-cutlery. No. 1,129,487; Feb. 23; Gaz. vol. 211; p. 1095.
- Williams, Charles F. and I. C., Coldwater, Mich. Fluid-hydrocarbon burner. No. 1,146,677; July 13; Gaz. vol. 216; p. 617.
- Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third-point support for brake-beams. No. 1,126,328; Jan. 26; Gaz. vol. 210; p. 1220.
- Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third-point support for brake-beams. No. 1,126,329; Jan. 26; Gaz. vol. 210; p. 1221.
- Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 1,144,403; June 29; Gaz. vol. 215; p. 1289.
- Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third-point support for brake-beams. No. 1,148,134; July 27; Gaz. vol. 216; p. 1176.
- Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third-point support for brake-beams. (Reissue.) No. 1,403,4; Dec. 21; Gaz. vol. 221; p. 1009.
- Williams, Charles M., Quincy, W. Va. Train-toilet device. No. 1,166,291; Dec. 28; Gaz. vol. 221; p. 1373.
- Williams, Chester E. (See Hubbard and Williams.)
- Williams, Chester R., Bedford, Ohio. Traction-lending contrivance. No. 1,159,560; Nov. 9; Gaz. vol. 220; p. 434.
- Williams, Clarence A., Merrillville, Cal. Wrench. No. 1,160,680; Nov. 16; Gaz. vol. 220; p. 887.
- Williams, Clarence B. (See Williams, Ira H., assignor.)
- Williams, Clarence B., Pence, and I. H. Williams, Maple Creek, Saskatchewan, Canada. Combined work-support and coöperating tool mechanism. No. 1,142,923; June 15; Gaz. vol. 215; p. 719.
- Williams, Claude H., Catawissa, Pa. Whip-holder. No. 1,154,151; Sept. 21; Gaz. vol. 218; p. 702.
- Williams, Curles T., Trenton, N. J. Safety-crank for explosive-engines. (Reissue.) No. 13,862; Jan. 5; Gaz. vol. 210; p. 364.
- Williams, Cyrenus B. (See Hardisty, Frank, assignor.)
- Williams, Daniel W., Tulsa, Okla. Saw. No. 1,146,468; July 13; Gaz. vol. 216; p. 546.
- Williams, David C., assignor to Southern Gypsum Company, Incorporated, North Holston, Va. Cut-off sawing-machine for plaster-boards. No. 1,147,289; July 20; Gaz. vol. 216; p. 848.
- Williams, David J., Herrin, Ill. Window-shade and operating device therefor. No. 1,158,613; Nov. 2; Gaz. vol. 220; p. 72.
- Williams, David P., Whitney, N. C. Indicator for hoisting and conveying apparatus. No. 1,156,733; Oct. 12; Gaz. vol. 219; p. 516.
- Williams, David S., deceased, Glenside; B. D. Williams, executrix, assignor of one-half to H. Druschel, Columbia, Pa. Internal-combustion engine. No. 1,165,366; Dec. 21; Gaz. vol. 221; p. 1005.
- Williams, David T., Paterson, N. J., assignor to Standard Stoker Company, Inc., Wilmington, Del. Automatic stoker. No. 1,142,293; June 8; Gaz. vol. 215; p. 461.
- Williams, David T., Paterson, N. J., assignor to Standard Stoker Company, Inc., Wilmington, Del. Automatic stoking mechanism. No. 1,152,682; Sept. 7; Gaz. vol. 218; p. 111.
- Williams, David T., Paterson, N. J., assignor to Standard Stoker Company, Inc., Wilmington, Del. Automatic stoker. No. 1,165,641; Dec. 28; Gaz. vol. 221; p. 1142.
- Williams, David T., Paterson, N. J., assignor, by mesne assignments, to Marvel, Marvel & Wolcott. Air-supplying attachment for furnaces. No. 1,164,437; Dec. 14; Gaz. vol. 221; p. 641.
- Williams, Dick B., assignor to Louisiana Nut and Machine Company, New Orleans, La. Nut-cracking machine. No. 1,132,817; Mar. 23; Gaz. vol. 212; p. 1171.

- Williams, Dick B., assignor to Louisiana Nut & Produce Company, New Orleans, La. Nut sheller and separator. No. 1,157,199; Oct. 19; Gaz. vol. 219; p. 710.
- Williams-Eaton, Harry T., assignor, by mesne assignments, to National Automatic Fender Company, Seattle, Wash. Car-fender. No. 1,130,651; Mar. 2; Gaz. vol. 212; p. 283.
- Williams, Edison R., Bakersfield, Cal. Disappearing signal-target and light for railway-track switches. No. 1,139,148; May 11; Gaz. vol. 214; p. 541.
- Williams, Edward C., assignor to E. D. Moeng, Chicago, Ill. Apparatus for cleaning electrolyte-casts and type-forms. No. 1,152,460; Sept. 7; Gaz. vol. 218; p. 27.
- Williams, Edward G., and E. H. Brown, Washington, D. C. Method of and apparatus for tunnel-work. No. 1,156,830; Oct. 12; Gaz. vol. 219; p. 549.
- Williams, Edward L., assignor to Egite Manufacturing Company, Santa Cruz, Cal. Blade-sharpener. No. 1,131,450; Mar. 9; Gaz. vol. 212; p. 592.
- Williams, Edward L., Jr., assignor of one-half to E. L. Williams, Sr., Santa Cruz, Cal. Molding-machine. No. 1,140,785; May 25; Gaz. vol. 214; p. 1183.
- Williams, Edward R., Sharpsburg, Pa. Device for evaporating liquids. No. 1,124,369; Jan. 12; Gaz. vol. 210; p. 457.
- Williams, Edward T., Brooklyn, N. Y. Ice making and harvesting apparatus. No. 1,149,009; Aug. 3; Gaz. vol. 217; p. 186.
- Williams, Edward T., Brooklyn, assignor to The Electrical Refrigerating Company, New York, N. Y. Ice making and harvesting apparatus. (Reissue.) No. 13,956; July 27; Gaz. vol. 216; p. 1304.
- Williams, Edward T., New York, assignor to A. Williams, Brooklyn, N. Y. Refrigerating-machine. No. 1,164,689; Dec. 21; Gaz. vol. 221; p. 769.
- Williams, Edward T., assignor to A. Williams, Brooklyn, N. Y. Refrigerating apparatus. No. 1,165,926; Dec. 28; Gaz. vol. 221; p. 1238.
- Williams, Edwin F. (See Skinner and Williams.)
- Williams, Elihu, Youngstown, Ohio. Bottle-cap. No. 1,141,738; June 1; Gaz. vol. 215; p. 230.
- Williams, Ernest. (See Westman, Wilhelm, assignor.)
- Williams, Ernest J., St. Louis, Mo. Combined eye-shade and program. No. 1,163,054; Dec. 7; Gaz. vol. 221; p. 111.
- Williams, Ernest L., and E. Jones, Hopland, Cal. Shock-absorber. No. 1,155,182; Sept. 28; Gaz. vol. 218; p. 1085.
- Williams, Eugene B., Stockton, Cal. Fruit-crate. No. 1,160,681; Nov. 16; Gaz. vol. 220; p. 887.
- Williams, Eugene B., assignor to B. F. Sturtevant Company, Boston, Mass. Centrifugal fan-wheel. No. 1,154,152; Sept. 21; Gaz. vol. 218; p. 702.
- Williams, Frank E., Alhambra, Cal. Detachable button and safety-pin. No. 1,141,162; June 1; Gaz. vol. 215; p. 25.
- Williams, Frank H., Buffalo, N. Y. Apparatus for making spiral-rolled bars. No. 1,161,176; Nov. 23; Gaz. vol. 220; p. 1106.
- Williams, Frank S., Kendaia, N. Y. Gang-plow. No. 1,157,136; Oct. 19; Gaz. vol. 219; p. 687.
- Williams, Frank W. (See Parnall, Archie E., assignor.)
- Williams, Fred B., assignor to the Elkhart Manufacturing Company, Monroe, Mich. Ignition apparatus for explosion-engines. No. 1,158,762; Nov. 2; Gaz. vol. 220; p. 123.
- Williams, Frederick, assignor to Acme Register Company, Somerville, Mass. Circuit-closer. No. 1,143,676; June 22; Gaz. vol. 215; p. 1007.
- Williams, Frederick, assignor to Acme Register Company, Somerville, Mass. Door-indicator. No. 1,162,837; Dec. 7; Gaz. vol. 221; p. 37.
- Williams, George A., assignor to The Williams Sealing Corporation, Waterbury, Conn. Bottle-capping device. No. 1,126,330; Jan. 26; Gaz. vol. 210; p. 1221.
- Williams, George A., assignor to The Williams Sealing Corporation, Waterbury, Conn. Bottle and cap-faster. No. 1,130,783; Mar. 9; Gaz. vol. 212; p. 363.
- Williams, George A., assignor to The Williams Sealing Corporation, Waterbury, Conn. Bottle and cap-faster. No. 1,132,140; Mar. 16; Gaz. vol. 212; p. 874.
- Williams, George H., Mishawaka, assignor of one-half to O. B. Sailors, South Bend, Ind. Bed-corner fastening. No. 1,161,177; Nov. 23; Gaz. vol. 220; p. 1106.
- Williams, George T., Denver, Colo. Power-transmission mechanism. No. 1,150,087; Aug. 17; Gaz. vol. 217; p. 736.
- Williams, George T., Denver, Colo. Type setting and casting machine. No. 1,160,350; Nov. 16; Gaz. vol. 220; p. 767.
- Williams, George T., Denver, Colo. Matrix-bar for type-casting machines. No. 1,160,351; Nov. 16; Gaz. vol. 220; p. 767.
- Williams, George T., H. S. Foster, and N. C. Wilkinson, Cedar Rapids, Iowa. Shoe-form. No. 1,133,077; Mar. 23; Gaz. vol. 212; p. 1265.
- Williams, George V., St. Louis, Mo. Knockdown receptacle. No. 1,127,336; Feb. 2; Gaz. vol. 211; p. 234.
- Williams, Harry, Glasgow, Scotland. Driving mechanism. No. 1,162,119; Nov. 30; Gaz. vol. 220; p. 1484.
- Williams, Harry E., assignor to Dow Wire & Iron Works, Louisville, Ky. Bearing. No. 1,138,822; May 11; Gaz. vol. 214; p. 425.
- Williams, Harry J. (See Foster and Williams.)
- Williams, Harry S., Ithaca, N. Y. Electric sign. No. 1,139,614; May 18; Gaz. vol. 214; p. 739.
- Williams, Harry S., assignor to The Peter Smith Heater Company, Detroit, Mich. Air-heater. No. 1,133,350; Mar. 30; Gaz. vol. 212; p. 1397.
- Williams, Harry S., Detroit, Mich., assignor of one-half to Peter Smith Heater Company, Detroit, Mich., and one-half to Consolidated Car-Heating Company, Albany, N. Y. Heating system. No. 1,154,587; Sept. 21; Gaz. vol. 218; p. 852.
- Williams, Hartwell L., Rison, Ark. Single-trigger mechanism for double-barreled guns. No. 1,142,003; June 8; Gaz. vol. 215; p. 358.
- Williams, Harvey D., assignor to Gear Improvement Company, Inc., New York, N. Y. Gear-cutting machine. No. 1,134,711; Apr. 6; Gaz. vol. 213; p. 230.
- Williams, Henry L. (See Windell, Frank D., assignor.)
- Williams, Herman, Wilmington, Del. Door check and holder. No. 1,146,378; July 13; Gaz. vol. 216; p. 511.
- Williams, Hiram C., Utica, assignor of one-third to F. B. Harrington, Albany, and one-third to S. R. Payne, Syracuse, N. Y. Railway switch and signal apparatus. No. 1,151,316; Aug. 24; Gaz. vol. 217; p. 1220.
- Williams, Homer D., and W. Ahlen, Duquesne, Pa. Bar-handling apparatus. No. 1,155,118; Sept. 28; Gaz. vol. 218; p. 1063.
- Williams, Howard, Toronto, Ontario, Canada. Tie-support. No. 1,124,370; Jan. 12; Gaz. vol. 210; p. 451.
- Williams, Humphrey and J. H., Indianapolis, Ind., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Automatic doffer for spinning-machines. No. 1,150,649; Aug. 17; Gaz. vol. 217; p. 935.
- Williams, I. Newton. (See Jones and Grimley, assignors.)
- Williams, Ira C. (See Williams, Charles F. and I. C.)
- Williams, Ira H. (See Williams, Clarence B. and I. H.)
- Williams, Ira H., Maple Creek, assignor of one-half to C. B. Williams, Pence, Saskatchewan, Canada. Power mechanism. No. 1,164,690; Dec. 21; Gaz. vol. 221; p. 770.
- Williams, Ira R., Portland, Oreg. Automatic window-catch. No. 1,135,147; Apr. 13; Gaz. vol. 213; p. 425.
- Williams, Ira T., Decatur, Ill. Whirligig-cart. No. 1,142,214; June 8; Gaz. vol. 215; p. 433.
- Williams, Irvin E. (See Fraver and Williams.)
- Williams, Isaac F. (See Walker and Williams.)
- Williams, James A., *et al.* (See Wood, Halbert M., assignor.)
- Williams, James E., Strong City, Okla. Automatic cut-off. No. 1,132,415; Mar. 16; Gaz. vol. 212; p. 974.
- Williams, James F., San Francisco, Cal. Composition and process for extracting metals from their ores. No. 1,145,954; July 13; Gaz. vol. 216; p. 361.
- Williams, James L., New York, N. Y., assignor to The Dentists' Supply Company. Artificial tooth. No. 1,139,615; May 18; Gaz. vol. 214; p. 739.
- Williams, James L., Pelham, N. Y., assignor to The Dentists' Supply Company. Crown-tooth and pin therefor. No. 1,149,239; Aug. 10; Gaz. vol. 217; p. 370.
- Williams, James M., Valdosta, Ga. Wheel-clamp. No. 1,166,029; Dec. 28; Gaz. vol. 221; p. 1275.
- Williams, James P., New York, N. Y. Sash-holder. No. 1,138,823; May 11; Gaz. vol. 214; p. 425.
- Williams, Jefferson L., Mount Vernon, Tex. Plow. No. 1,160,025; Nov. 9; Gaz. vol. 220; p. 600.
- Williams, Jerome A. (See Miles and Williams.)
- Williams, Jesse P., Brooklyn, N. Y. Steam-radiator. No. 1,161,567; Nov. 23; Gaz. vol. 220; p. 1245.
- Williams, John B., San Francisco, Cal., assignor, by mesne assignments, to Perfection Valve Company. Reversible flush-valve. (Reissue.) No. 13,913; May 4; Gaz. vol. 214; p. 314.
- Williams, John F., Wilkes-Barre, Pa. Time mechanism for furnaces. No. 1,141,739; June 1; Gaz. vol. 215; p. 231.
- Williams, John H. (See Williams, Humphrey and J. H.)
- Williams, John H., East Cleveland, Ohio. Switch-box. No. 1,163,388; Dec. 7; Gaz. vol. 221; p. 229.
- Williams, John M., Guthrie, Okla. Apparatus for bleaching and aging cereals. No. 1,132,058; Mar. 16; Gaz. vol. 212; p. 843.
- Williams, John N., Derby, Conn. Motor-cycle. No. 1,139,616; May 18; Gaz. vol. 214; p. 739.
- Williams, John N., Derby, Conn. Internal-combustion engine. No. 1,139,617; May 18; Gaz. vol. 214; p. 740.
- Williams, John P., New York, N. Y., assignor to Electric Bank Protection Company. Electric burglar-alarm system. No. 1,133,689; Mar. 30; Gaz. vol. 212; p. 1521.
- Williams, John P., New York, N. Y., assignor to Duplex Electric Company. Contact mechanism for electric alarm systems. No. 1,146,294; July 13; Gaz. vol. 216; p. 481.
- Williams, John S., assignor of one-half to U. G. Gregg, Newark, Ohio. Stove. No. 1,149,107; Aug. 3; Gaz. vol. 217; p. 217.
- Williams, John T., San Antonio, Tex. Sanitary attachment for milk-pails. No. 1,140,224; May 18; Gaz. vol. 214; p. 954.

Alphabetical list of patentees—Continued.

- Williams, Joseph A., assignor to K. W. Ignition Company, Cleveland, Ohio. Magneto driving mechanism. No. 1,144,016; June 22; Gaz. vol. 215; p. 1124.
- Williams, Joseph H., Wallace, Idaho. Rotary engine. No. 1,155,536; Oct. 5; Gaz. vol. 219; p. 74.
- Williams-Kneeland Company. (See Bostock, William F., assignor.)
- Williams, Lacey Y., Toledo, Ohio. Dust-guard. No. 1,156,959; Oct. 19; Gaz. vol. 219; p. 625.
- Williams, Lacey Y., Toledo, Ohio. Toy cannon. No. 1,160,230; Nov. 16; Gaz. vol. 220; p. 725.
- Williams, Lee F., Pueblo, Colo. Apparatus for constructing concrete silos and the like. No. 1,163,798; Dec. 14; Gaz. vol. 221; p. 419.
- Williams, Leo D. (See Williams, Alfred and L. D.)
- Williams, Leonidas B., assignor of one-half to R. L. Loflin, High Point, N. C. Closet attachment. No. 1,124,569; Jan. 12; Gaz. vol. 210; p. 523.
- Williams, Lloyd A., Burlington, Kans. Shocking-machine. No. 1,126,604; Jan. 26; Gaz. vol. 210; p. 1321.
- Williams, Louis N. D., Ogontz, Pa. Transferring knitted webs. No. 1,127,337; Feb. 2; Gaz. vol. 211; p. 234.
- Williams, Louis N. D., Ogontz, Pa. Stitch-chain-forming machine. No. 1,127,338; Feb. 2; Gaz. vol. 211; p. 234.
- Williams, Louis N. D., Ogontz, Pa. Take-up device for knitting-machines. No. 1,129,935; Mar. 2; Gaz. vol. 212; p. 35.
- Williams, Louis N. D., Ogontz, Pa. Take-up mechanism for knitting-machines. No. 1,133,078; Mar. 23; Gaz. vol. 212; p. 1265.
- Williams, Louis N. D., Ogontz, Pa. Take-up device for knitting-machines. No. 1,133,079; Mar. 23; Gaz. vol. 212; p. 1266.
- Williams, Louis N. D., Ogontz, Pa. Rib-knitting machine. No. 1,163,295; Dec. 7; Gaz. vol. 221; p. 196.
- Williams, Louis N. D., Ogontz, Pa. Knitting-machine. No. 1,163,296; Dec. 7; Gaz. vol. 221; p. 196.
- Williams, Louis N. D., assignor to Scott & Williams, Incorporated, Ogontz, Pa. Rib-knitting machine. No. 1,137,561; Apr. 27; Gaz. vol. 213; p. 1354.
- Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine. No. 1,148,267; July 27; Gaz. vol. 216; p. 1221.
- Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, Camden, N. J. Knitting-machine. No. 1,151,428; Aug. 24; Gaz. vol. 217; p. 1250.
- Williams, Lynn A., Evanston, assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,130,950; Mar. 9; Gaz. vol. 212; p. 419.
- Williams, Margaret E. B., Westernport, Md. Trunk or receptacle. No. 1,143,474; June 15; Gaz. vol. 215; p. 914.
- Williams, Mattie, assignor of one-half to J. L. Nichol, Bertha, Mo. Toy. No. 1,123,637; Jan. 5; Gaz. vol. 210; p. 150.
- Williams Mill Manufacturing Company. (See Poplin, James A., assignor.)
- Williams, Milton F. (See Tebbetts, George S., Jr., assignor.)
- Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Hammer attachment for rotary mills. No. 1,147,351; July 20; Gaz. vol. 216; p. 870.
- Williams, Mort. (See Moore, Thomas S., assignor.)
- Williams, Nathan W., Seattle, Wash. Combined bed and davenport. No. 1,136,857; Apr. 20; Gaz. vol. 213; p. 1065.
- Williams, Noah D., Thomas, Okla. Elevating feed-trough for pit-silos. No. 1,145,049; July 6; Gaz. vol. 216; p. 27.
- Williams, Oscar, and E. C. Baker, Sullivan, Ind. Acetylene-generating lamp. No. 1,132,894; Mar. 23; Gaz. vol. 212; p. 1197.
- Williams, Owen J., Duluth, Minn. Attachment for protractors. No. 1,131,585; Mar. 9; Gaz. vol. 212; p. 637.
- Williams Patent Crusher and Pulverizer Company. (See Cornwall, Frederick R., assignor.)
- Williams Patent Crusher and Pulverizer Company. (See Williams, Milton F., assignor.)
- Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. Pot-head connector. No. 1,154,823; Sept. 28; Gaz. vol. 218; p. 961.
- Williams, Percy W., Ogden, Utah. Valve-setting mechanism for locomotives. No. 1,125,240; Jan. 19; Gaz. vol. 210; p. 798.
- Williams, Perry H. (See Knight, William W., assignor.)
- Williams, Peter K., Columbus, Ohio. Spinning-top. No. 1,158,352; Oct. 26; Gaz. vol. 219; p. 1175.
- Williams, Richard P., Brooklyn, N. Y. Railway structure. No. 1,164,043; Dec. 14; Gaz. vol. 221; p. 504.
- Williams, Robert L., Newton, Mass., assignor to Submarine Signal Company, Waterville, Me. Sounder for submarine signaling. No. 1,131,764; Mar. 16; Gaz. vol. 212; p. 736.
- Williams, Robert L., Newton, Mass., assignor to Submarine Signal Company, Waterville, Me. Bell-buoy. No. 1,164,772; Dec. 21; Gaz. vol. 221; p. 798.
- Williams, Roger, Bogota, N. J., assignor to Simplex Electric Heating Company, Cambridge, Mass. Electric range. No. 1,154,954; Sept. 28; Gaz. vol. 218; p. 1005.
- Williams, Roger V., Killen, Ala. Wagon-brake. No. 1,124,371; Jan. 12; Gaz. vol. 210; p. 451.
- Williams Sealing Corporation, The. (See Williams, George A., assignor.)
- Williams, Theodore E. (See Mathey and Williams.)
- Williams, Theodore O., Chicago, Ill. Insect-trap. No. 1,166,103; Dec. 28; Gaz. vol. 221; p. 1301.
- Williams, Thomas, *et al.* (See Nichols, Robert M., assignor.)
- Williams, Thomas. (See Specht and Williams.)
- Williams, Victor O. (See Wilt and Williams.)
- Williams, Warner R. (See Newbold, Harry, assignor.)
- Williams, Warren J. (See Hart and Williams.)
- Williams, Watkin S. (See Jones and Williams.)
- Williams, White & Company. (See Cornbrooks, William A., assignor.)
- Williams, White & Company. (See Freeland, George W., assignor.)
- Williams, William, Glebe, Sydney, New South Wales, Australia. Smoke-prevention apparatus for furnaces. No. 1,148,421; July 27; Gaz. vol. 216; p. 1276.
- Williams, William, Jasonville, Ind. Corn-popper. No. 1,160,231; Nov. 16; Gaz. vol. 220; p. 726.
- Williams, William A., San Francisco, Cal. Valve for flushing-tanks and the like. No. 1,129,533; Feb. 23; Gaz. vol. 211; p. 1129.
- Williams, William E., Chicago, Ill. Steel end for cars. No. 1,129,769; Feb. 23; Gaz. vol. 211; p. 1207.
- Williams, William E., Chicago, Ill. Steel wheel. No. 1,131,882; Mar. 16; Gaz. vol. 212; p. 780.
- Williams, William E., Chicago, Ill. Steel wheel. No. 1,131,883; Mar. 16; Gaz. vol. 212; p. 780.
- Williams, William E., assignor to W. D. Johnson, Chicago, Ill. Concealed door-check. No. 1,147,909; July 27; Gaz. vol. 216; p. 1094.
- Williams, William F., Miami, Ariz. Multiple-signature machine. No. 1,131,451; Mar. 9; Gaz. vol. 212; p. 592.
- Williams, William H., Sharpsburg, Pa. Treating water. No. 1,139,618; May 18; Gaz. vol. 214; p. 740.
- Williams, William J., La Grange, and J. C. Bowman, Chicago, Ill. Cushion. No. 1,165,052; Dec. 21; Gaz. vol. 221; p. 896.
- Williams, William R., assignor, by mesne assignments, to Owensboro Ditcher and Grader Company, Owensboro, Ky. Road-grading machine and ditcher. No. 1,129,936; Mar. 2; Gaz. vol. 212; p. 36.
- Williams, Willis S., Manchester, England. Aerial machine. No. 1,150,650; Aug. 17; Gaz. vol. 217; p. 935.
- Williams, Winfield S., Chicago, Ill. Hinge mechanism. No. 1,144,404; June 29; Gaz. vol. 215; p. 1289.
- Williamson, Adrian, Monticello, Ark. Automatic gate. No. 1,152,999; Sept. 7; Gaz. vol. 218; p. 227.
- Williamson, Alice L. (See Williamson, John A. and A. L.)
- Williamson, Charles S., Chicago, Ill. Hoisting and conveying apparatus. No. 1,161,274; Nov. 23; Gaz. vol. 220; p. 1142.
- Williamson, Charles S., Chicago, Ill., assignor of one-half to Mead-Morrison Manufacturing Company, Boston, Mass. Hoist-trolley. No. 1,148,482; July 27; Gaz. vol. 216; p. 1296.
- Williamson, Charles S., Chicago, Ill., assignor of one-half to Mead-Morrison Manufacturing Company, Boston, Mass. Coal-handling machinery. No. 1,162,838; Dec. 7; Gaz. vol. 221; p. 38.
- Williamson, Edward W., Florence, S. C. Combined planter and fertilizer-distributor. No. 1,126,928; Feb. 2; Gaz. vol. 211; p. 93.
- Williamson, Elias S., Philadelphia, Pa. Overshoe for horses. No. 1,156,571; Oct. 12; Gaz. vol. 219; p. 460.
- Williamson, Elmer. (See Williamson, Jason and E.)
- Williamson, George E., Springfield, Mass. Layboy. No. 1,146,469; July 13; Gaz. vol. 216; p. 546.
- Williamson, Glenn S., New York, N. Y., and C. E. Mandelick, Ridgefield Park, N. J. Tension apparatus. No. 1,160,556; Nov. 16; Gaz. vol. 220; p. 840.
- Williamson Heater Company, The. (See Holub, Charles J., assignor.)
- Williamson, Herbert E., San Francisco, Cal. Gearing. No. 1,148,881; Aug. 3; Gaz. vol. 217; p. 141.
- Williamson, James D., Reading, assignor of one-half to C. A. Mills, Wyomissing, Pa. Rib-joint device for umbrellas. No. 1,145,285; July 6; Gaz. vol. 216; p. 107.
- Williamson, James F. (See Pearson, John, assignor.)
- Williamson, Jason and E., Greenwood, Tex. Sliding valve for steam-engines or the like. No. 1,142,071; June 8; Gaz. vol. 215; p. 383.
- Williamson, John A. and A. L. Parsons, Kans. Base-ball game apparatus. No. 1,164,044; Dec. 14; Gaz. vol. 221; p. 504.
- Williamson, Leroy A., New York, N. Y. Portable battery-light. No. 1,127,839; Feb. 9; Gaz. vol. 211; p. 454.
- Williamson, Lester H., Larned, Kans. Crib attachment for bedsteads. No. 1,147,062; July 20; Gaz. vol. 216; p. 771.
- Williamson Machinery Company. (See Williamson, Romeo, assignor.)
- Williamson & Merchant. (See Edman, John, assignor.)
- Williamson, Robert B., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. System of distribution. No. 1,138,341; May 4; Gaz. vol. 214; p. 219.

Alphabetical list of patentees—Continued.

- Williamson, Robert B., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Adjustable bearing for dynamo-electric machines. No. 1,144,627; June 29; Gaz. vol. 215; p. 1364.
- Williamson, Robert B., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Dynamo-electric machine. No. 1,152,683; Sept. 7; Gaz. vol. 218; p. 112.
- Williamson, Robert B., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Dynamo-electric machine. No. 1,157,137; Oct. 19; Gaz. vol. 219; p. 688.
- Williamson, Romeo, assignor to Williamson Machinery Company, Milwaukee, Wis. Machine for making hollow glass articles. No. 1,147,695; July 20; Gaz. vol. 216; p. 992.
- Williamson, Samuel B. (See Possons, Minard A., assignor.)
- Williamson, Samuel S., Philadelphia, Pa. Non-refillable bottle. No. 1,127,144; Feb. 2; Gaz. vol. 211; p. 170.
- Williamson, Samuel S., and G. R. Carothers, Philadelphia, Pa. Bottle and closure therefor. No. 1,131,304; Mar. 9; Gaz. vol. 212; p. 542.
- Williamson, Samuel T. (See Gilbreath and Williamson.)
- Willich, Johan H., assignor to McFarland-Hyde Co., Chicago, Ill. Locking mechanism for doors. No. 1,124,372; Jan. 12; Gaz. vol. 210; p. 452.
- Willing, Arthur U. (See Evans and Willing.)
- Willing, Van der Veer, Philadelphia, Pa. Automobile signaling device. No. 1,164,045; Dec. 14; Gaz. vol. 221; p. 505.
- Willing, Max, and P. Ravis, assignors to New York Album and Card Co. Inc., New York, N. Y. Book and binding. No. 1,163,297; Dec. 7; Gaz. vol. 221; p. 196.
- Willingham, Joseph O. (See Self and Willingham.)
- Willieme, Jacques D., St. Louis, Mo. Washing-machine. No. 1,124,989; Jan. 5; Gaz. vol. 210; p. 303.
- Willis, Auveron P. R., Leatherhead, England. Hammock and like chair. No. 1,125,425; Jan. 19; Gaz. vol. 210; p. 865.
- Willis, B. E. (See Wickersham, Charles E., assignor.)
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,130,784; Mar. 9; Gaz. vol. 212; p. 363.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Telephone switching apparatus. No. 1,134,933; Apr. 6; Gaz. vol. 213; p. 303.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Cord-circuit for telephone systems. No. 1,156,450; Oct. 12; Gaz. vol. 219; p. 417.
- Willis, Bernard D., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Party-line telephone system. No. 1,135,643; Apr. 13; Gaz. vol. 213; p. 596.
- Willis, Carroll O. (See Phinney, Charles H., assignor.)
- Willis, Charles C., Framingham, assignor to Dennison Manufacturing Company, Boston, Mass. Paper-package. No. 1,158,353; Oct. 26; Gaz. vol. 219; p. 1176.
- Willis, Elmer S., Montrose, Colo. Agricultural machine. No. 1,163,495; Dec. 7; Gaz. vol. 221; p. 265.
- Willis, Francis M. (See Coon, Arthur J., assignor.)
- Willis, Harry S., Denver, Colo. Egg-carrier. No. 1,144,674; June 29; Gaz. vol. 215; p. 1380.
- Willis, Henry W., Lansford, N. D. Hay or shock loader. No. 1,156,734; Oct. 12; Gaz. vol. 219; p. 516.
- Willis, James T., Macon, Ga. Account-book. No. 1,124,090; Jan. 5; Gaz. vol. 210; p. 303.
- Willis, Joseph W., Ansonia, Conn. Automatic fruit picker and conveyor. No. 1,132,818; Mar. 23; Gaz. vol. 212; p. 1171.
- Willis, Leland, assignor to Bateman Manufacturing Company, Grenloch, N. J. Wheel. No. 1,148,268; July 27; Gaz. vol. 216; p. 1222.
- Willis, Leland, assignor to Bateman Manufacturing Company, Grenloch, N. J. Self-releasing positive clutch. No. 1,158,354; Oct. 26; Gaz. vol. 219; p. 1176.
- Willis Mitchell Company. (See Mitchell, Willis, assignor.)
- Willis, Percy E. (See Jolly and Willis.)
- Willis, Silas, Noble, Okla. Pneumatic seed and dust conveyor for cotton-gins. No. 1,156,196; Oct. 12; Gaz. vol. 219; p. 327.
- Willis, William S., New York, N. Y. Pedal-switch. No. 1,153,355; Oct. 26; Gaz. vol. 219; p. 1177.
- Willison, Charles H., Ashland, Oreg. Nut-lock. No. 1,127,559; Feb. 9; Gaz. vol. 211; p. 353.
- Willison, Charles H., Ashland, Oreg. Nut-lock. No. 1,137,042; Apr. 27; Gaz. vol. 213; p. 1168.
- Willison, John, Derby, England, assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling. No. 1,162,271; Nov. 30; Gaz. vol. 220; p. 1537.
- Willison, John, Derby, England, assignor to The National Malleable Castings Company. Car-coupling. No. 1,162,272; Nov. 30; Gaz. vol. 220; p. 1537.
- Williston, Belvin T., Somerville, Mass., assignor to The United Injector Company, New York, N. Y. Spring-adjuster. No. 1,130,050; Mar. 2; Gaz. vol. 212; p. 73.
- Willits, Ward W., Highland Park, Ill., assignor to The Adams & Westlake Company. Guard-frame for lanterns. No. 1,156,572; Oct. 12; Gaz. vol. 219; p. 460.
- Willmott, Henry C. (See Luff and Willmott.)
- Willner, Lawrence J., Duluth, Minn. Valve-gear for engines. No. 1,159,145; Nov. 2; Gaz. vol. 220; p. 253.
- Willner, Swen J., and G. Foleen, Portland, Oreg. Door-hanger. No. 1,133,080; Mar. 23; Gaz. vol. 212; p. 1266.
- Willners-Holtom Specialty Co. (See Willners, John, assignor.)
- Willners, John, assignor to Willners-Holtom Specialty Co., Chicago Heights, Ill. Shock-absorber. No. 1,161,431; Nov. 23; Gaz. vol. 220; p. 1198.
- Willock, Curtis M., assignor to The American Steel Package Company, Defiance, Ohio. Packing-case. No. 1,146,116; July 13; Gaz. vol. 216; p. 419.
- Willoughby, Alford P., Olney, Tex. Sanitary drinking-cup. No. 1,133,831; Mar. 30; Gaz. vol. 212; p. 1571.
- Willoughby, Alford P., assignor of one-half to W. D. Bolding, Olney, Tex. Bag-mouth-spreading device. No. 1,124,091; Jan. 5; Gaz. vol. 210; p. 303.
- Willoughby, Alford P., assignor of one-half to W. D. Bolding, Olney, Tex. Collapsible coop. No. 1,151,844; Aug. 31; Gaz. vol. 217; p. 1448.
- Willoughby, Alford P., and W. D. Bolding, Olney, Tex. Automatic alarm device. No. 1,131,452; Mar. 9; Gaz. vol. 212; p. 593.
- Willoughby, Alfred B., Philadelphia, Pa. Marine-furnace equipment. No. 1,154,153; Sept. 21; Gaz. vol. 218; p. 702.
- Willoughby, Victor, Jeffersonville, Ind., assignor to W. H. Miner, Chazy, N. Y. Draft-gear coupling-yoke. No. 1,132,819; Mar. 23; Gaz. vol. 212; p. 1172.
- Willoughby, Victor, Jeffersonville, Ind., assignor to American Car and Foundry Company, St. Louis, Mo. Draft-gear yoke. No. 1,164,046; Dec. 14; Gaz. vol. 221; p. 505.
- Willour, Le Roy, Ashland, Ohio. Jack. No. 1,133,241; Mar. 23; Gaz. vol. 212; p. 1322.
- Willour, Le Roy, Ashland, Ohio. Slide playground apparatus. No. 1,161,098; Nov. 23; Gaz. vol. 220; p. 1077.
- Willour, Le Roy, Ashland, Ohio. Jack. No. 1,161,099; Nov. 23; Gaz. vol. 220; p. 1078.
- Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Jack. No. 1,153,589; Sept. 14; Gaz. vol. 218; p. 474.
- Willower, Wilbert A., C. W. Angell, and J. W. Gallasple, Lima, Ohio. Controlling mechanism for electric-light signs. No. 1,166,030; Dec. 28; Gaz. vol. 221; p. 1275.
- Wills, Edgar B., and L. W. Reck, Mendota, Ill. Lifting appliance for vehicles. No. 1,145,729; July 6; Gaz. vol. 216; p. 265.
- Wills, Olin L., Portland, Oreg. Apparatus for determining the period of a pendulum. No. 1,161,568; Nov. 23; Gaz. vol. 220; p. 1246.
- Wills, Silas D., Fort Payne, Ala. Spring-mounted wheel. No. 1,136,191; Apr. 20; Gaz. vol. 213; p. 828.
- Wills, Wayne, Chicago, Ill. Desk. No. 1,139,943; May 13; Gaz. vol. 214; p. 855.
- Wills, Wayne, Chicago, Ill., assignor, by mesne assignments, to American Seating Company. Structural tubing. No. 1,154,955; Sept. 28; Gaz. vol. 218; p. 1005.
- Wills, William, assignor of one-third to H. E. Black, one-third to W. L. Rohrer, Canton, Ohio, and one-eighth to W. A. Marshall, Austin, Nev. Internal-combustion engine. No. 1,138,824; May 11; Gaz. vol. 214; p. 426.
- Willsey, Mina C. S., Trenton, Mo. Safety sewing-thimble. No. 1,150,724; Aug. 17; Gaz. vol. 217; p. 960.
- Willsie, Henry E., Cranford, N. J. Apparatus for utilizing solar heat. No. 1,130,870; Mar. 9; Gaz. vol. 212; p. 392.
- Willsie, Henry E., New York, N. Y. Solar apparatus. No. 1,130,871; Mar. 9; Gaz. vol. 212; p. 392.
- Willsie, Henry E., New York, N. Y. Concrete building. No. 1,152,253; Aug. 31; Gaz. vol. 217; p. 1588.
- Willson, Albert, Winslow, Ariz. Brake-dog. No. 1,137,300; Apr. 27; Gaz. vol. 213; p. 1263.
- Willson, Frederick, Reading, and H. F. Shindel, Glenside, Pa. Spectacle-temple connection. No. 1,147,773; July 27; Gaz. vol. 216; p. 1045.
- Willson, Frederick, and N. Bourquin, assignors to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 1,151,641; Aug. 31; Gaz. vol. 217; p. 1377.
- Willson, Frederick, and N. Bourquin, assignors to T. A. Willson & Co., Inc., Reading, Pa. Eye-shield protecting spectacles. No. 1,161,100; Nov. 23; Gaz. vol. 220; p. 1078.
- Willson, Freeman R., Worthington, Ohio. Spring vehicle-wheel. No. 1,156,960; Oct. 19; Gaz. vol. 219; p. 625.
- Willson, Freeman R., Worthington, Ohio. Spring vehicle-wheel. No. 1,159,308; Nov. 2; Gaz. vol. 220; p. 313.
- Willson, Freeman R., Worthington, Ohio. Spring-wheel. No. 1,159,309; Nov. 2; Gaz. vol. 220; p. 313.
- Willson, Freeman R., Jr., Columbus, Ohio, assignor to The Jeffrey Manufacturing Co. Conveyor. No. 1,156,385; Oct. 12; Gaz. vol. 219; p. 394.
- Willson, George L. (See Healy, John S., assignor.)
- Willson, George L. (See Palmer, George, assignor.)
- Willson, George T., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Speed-indicator. No. 1,150,088; Aug. 17; Gaz. vol. 217; p. 737.
- Willson, James, Portersville, Cal. Milking-pail. No. 1,145,176; July 6; Gaz. vol. 216; p. 70.
- Willson, Robert M., Riverside, Cal. Grinding-mill. No. 1,137,685; Apr. 27; Gaz. vol. 213; p. 1394.

Alphabetical list of patentees—Continued.

- Willson, Samuel T., New York, N. Y. Vat-drier. No. 1,150,920; Aug. 24; Gaz. vol. 217; p. 1085.
- Willson, Thomas L. (See Haff and Willson.)
- Willson, Thomas L., and M. M. Haff, Ottawa, Ontario, assignors to Southern Investment Co. of Canada Ltd., Montreal, Canada. Ammoniated acid phosphate and making same. No. 1,127,840; Feb. 9; Gaz. vol. 211; p. 454.
- Willson, Thomas L., and M. M. Haff, Ottawa, Ontario, assignors to Southern Investment Co. of Canada Ltd., Montreal, Canada. Obtaining alkali compounds useful for fertilizing. No. 1,144,405; June 29; Gaz. vol. 215; p. 1290.
- Willson, Thomas L., and M. M. Haff, Ottawa, Ontario, assignors to Southern Investment Co. of Canada Ltd., Montreal, Canada. Fertilizer composition and making it. No. 1,145,107; July 6; Gaz. vol. 216; p. 48.
- Willson, Thomas L., and M. M. Haff, Ottawa, Ontario, assignors to Southern Investment Co. of Canada Ltd., Montreal, Canada. Fertilizer. No. 1,146,222; July 13; Gaz. vol. 216; p. 457.
- Willson, Thomas L., and M. M. Haff, Ottawa, Ontario, assignors to Southern Investment Co. of Canada Ltd., Montreal, Canada. Fertilizer. No. 1,166,104; Dec. 28; Gaz. vol. 221; p. 1301.
- Willstätter, Richard, Berlin-Dahlem, Germany. Preparing solutions of cellulose. No. 1,141,510; June 1; Gaz. vol. 215; p. 151.
- Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
- Wilm, Alfred, Schlachtensee, near Berlin, Germany. Aluminum alloy. No. 1,130,785; Mar. 9; Gaz. vol. 212; p. 363.
- Wilmarth Show Case Company. (See Morris, Edmund, assignor.)
- Wilmer, Richard H., Shandon, Ohio. Game. No. 1,149,801; Aug. 10; Gaz. vol. 217; p. 573.
- Wilmerding, Lily F., Flushing, N. Y. Apparatus for compressing garbage and other materials. No. 1,160,352; Nov. 16; Gaz. vol. 220; p. 768.
- Wimes, Nick E., San Francisco, Cal. Combined hydraulic motor and vacuum-nozzle. No. 1,128,207; Feb. 9; Gaz. vol. 211; p. 581.
- Wilmington, Otto A. (See Burke and Wilmington.)
- Wilmot, John F., Detroit, Mich. Chair. No. 1,149,421; Aug. 10; Gaz. vol. 217; p. 437.
- Wilmoth, Joseph S. (See Simpson and Wilmoth.)
- Wilsey, Clyde F. (See Gushwa and Wilsey.)
- Wilson, Aaron W., and I. E. Rice, Casper, Wyo. Car-door. No. 1,154,681; Sept. 28; Gaz. vol. 218; p. 914.
- Wilson, Alexander R., Spokane, Wash. Type-setting machine. No. 1,136,192; Apr. 20; Gaz. vol. 213; p. 828.
- Wilson, Almond E., Indianapolis, Ind. Smoke-consumer. No. 1,129,151; Feb. 23; Gaz. vol. 211; p. 995.
- Wilson, Arthur, and J. Robson, Westminster, London, assignors to The Variable Speed Gear, Limited, Westminster, England. Method of and means for stowing and launching ships' boats. No. 1,131,453; Mar. 9; Gaz. vol. 212; p. 593.
- Wilson, Arthur, and J. Robson, Westminster, London, assignors to The Variable Speed Gear Limited, Westminster, England. Crane and other hoisting apparatus. No. 1,139,944; May 18; Gaz. vol. 214; p. 855.
- Wilson, Bert F., assignor to J. N. Grimes, Denver, Colo. Water-elevating device. No. 1,150,408; Aug. 17; Gaz. vol. 217; p. 851.
- Wilson, Charles A., Winchester, Ill. Muffler. No. 1,125,426; Jan. 19; Gaz. vol. 210; p. 865.
- Wilson, Charles A., West Peru, assignor to T. E. Bowditch and J. R. Townsend, Augusta, Me. Crate or basket. No. 1,161,755; Nov. 23; Gaz. vol. 220; p. 1308.
- Wilson, Charles H., Mount Vernon, assignor to Wilson-Maulen Company, Inc., New York, N. Y. Recording instrument. No. 1,133,597; Mar. 30; Gaz. vol. 212; p. 1486.
- Wilson, Cowan D., Big Stone Gap, Va. Wrench. No. 1,155,857; Oct. 5; Gaz. vol. 219; p. 186.
- Wilson, David H., New York, N. Y. Telephone repeating device. No. 1,123,927; Feb. 16; Gaz. vol. 211; p. 881.
- Wilson, David H., Ridgewood, N. J., assignor to Wilson Storage Battery Company, New York, N. Y. Charging storage batteries. No. 1,126,665; Jan. 26; Gaz. vol. 210; p. 1342.
- Wilson, David H., Ridgewood, N. J., assignor to Wilson Storage Battery Company, New York, N. Y. Apparatus for charging storage batteries. No. 1,126,668; Jan. 26; Gaz. vol. 210; p. 1343.
- Wilson, David H., Ridgewood, N. J., assignor to Wilson Storage Battery Company, New York, N. Y. Apparatus for charging storage batteries. No. 1,126,669; Jan. 26; Gaz. vol. 210; p. 1343.
- Wilson, David H., Ridgewood, N. J., assignor to Wilson Storage Battery Company, New York, N. Y. Apparatus for charging storage batteries. No. 1,126,670; Jan. 26; Gaz. vol. 210; p. 1344.
- Wilson, David H., Ridgewood, N. J., assignor to Wilson Storage Battery Company, New York, N. Y. Storage battery. No. 1,126,671; Jan. 26; Gaz. vol. 210; p. 1344.
- Wilson, David H., Meadville, Pa., assignor to Wilson Storage Battery Company, New York, N. Y. Charging storage batteries. No. 1,126,666; Jan. 26; Gaz. vol. 210; p. 1342.
- Wilson, David H., Meadville, Pa., assignor to Wilson Storage Battery Company, New York, N. Y. Charging storage batteries. No. 1,126,667; Jan. 26; Gaz. vol. 210; p. 1343.
- Wilson, Dudley J., Melbourne, Victoria, Australia. Valve. No. 1,151,230; Aug. 24; Gaz. vol. 217; p. 1192.
- Wilson, Edward, assignor of one-half to W. G. Morgan, St. Louis, Mo. Rotary air compressor or pump. No. 1,162,962; Dec. 7; Gaz. vol. 221; p. 80.
- Wilson, Edward L., and J. J. Reilly, Jersey City, N. J. Fastening for shipping-tags. No. 1,125,618; Jan. 19; Gaz. vol. 210; p. 931.
- Wilson, Edward W. (See McCarthy and Wilson.)
- Wilson, Elmer D., Kittanning, Pa. Combined shade-roller and curtain-pole fixture. No. 1,157,831; Oct. 26; Gaz. vol. 219; p. 993.
- Wilson, Eugene W., Detroit, assignor of one-half to W. C. Morgan, Highland Park, Mich. Sanitary shaving-cup. No. 1,138,825; May 11; Gaz. vol. 214; p. 426.
- Wilson, Fergus F., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Type or matrix. No. 1,129,152; Feb. 23; Gaz. vol. 211; p. 995.
- Wilson, Forrest M., assignor to The Computing Cheese Cutter Company, Anderson, Ind. Computing merchant disc-cutter. No. 1,155,183; Sept. 28; Gaz. vol. 218; p. 1086.
- Wilson, Forrest M., assignor to Computing Cheese Cutter Company, Anderson, Ind. Cheese-cutter. No. 1,160,026; Nov. 9; Gaz. vol. 220; p. 600.
- Wilson, Francis G. (See Smith, Putnam D., assignor.)
- Wilson, Frederick M. (See Crilly and Wilson.)
- Wilson, Friend A., San Augustine, Tex. Ax-sharpener. No. 1,124,092; Jan. 5; Gaz. vol. 210; p. 304.
- Wilson, George H., Spokane, Wash. Preheater. (Reissue.) No. 13,868; Jan. 12; Gaz. vol. 210; p. 691.
- Wilson, George H., Minneapolis, Minn. Detachable gearing for traction-engines. No. 1,136,302; Apr. 20; Gaz. vol. 213; p. 868.
- Wilson, George H., Minneapolis, Minn. Roller gear-wheel. No. 1,140,427; May 25; Gaz. vol. 214; p. 1060.
- Wilson, George H., Minneapolis, Minn. Gear-wheel. No. 1,165,560; Dec. 28; Gaz. vol. 221; p. 1111.
- Wilson, George H., Minneapolis, Minn. Traction-wheel. No. 1,165,561; Dec. 28; Gaz. vol. 221; p. 1111.
- Wilson, George T., Harlem, Ga. Tire rack or support. No. 1,148,734; Aug. 3; Gaz. vol. 217; p. 90.
- Wilson, George W., Beaumont, Tex. Furnace. No. 1,145,108; July 6; Gaz. vol. 216; p. 48.
- Wilson, Gordon, Chicago, Ill. Reference-record. No. 1,154,225; Sept. 21; Gaz. vol. 218; p. 727.
- Wilson, Harry L., Cleveland, Ohio, assignor, by mesne assignments, to The Lamson Company, Boston, Mass. Store-service apparatus. No. 1,133,450; Mar. 30; Gaz. vol. 212; p. 1433.
- Wilson, Harry T., assignor to The Middletown Machine Company, Middletown, Ohio. Internal-combustion engine. No. 1,146,043; July 13; Gaz. vol. 216; p. 394.
- Wilson, Harvey Y., Waterloo, Iowa, assignor of one-half to J. C. Johnson, South Minneapolis, Minn. Vapor-bath cabinet. No. 1,128,564; Feb. 16; Gaz. vol. 211; p. 754.
- Wilson, Henry A., Spencer, S. D. Weeder attachment for corn-cultivators. No. 1,127,560; Feb. 9; Gaz. vol. 211; p. 354.
- Wilson, Henry C., New York, N. Y., and C. R. B. Claffin, Boston, Mass., assignors, by mesne assignments, to Atlantic National Bank, Providence, R. I. Signaling system. No. 1,150,829; Aug. 17; Gaz. vol. 217; p. 996.
- Wilson, Herbert D. (See Leavens and Wilson.)
- Wilson, Herman S., et al. (See Bergren, John A., assignor.)
- Wilson, Hiram. (See Martin, William H., assignor.)
- Wilson, Hiram, et al. (See Martin, William H., assignor.)
- Wilson, Homer S., Richmond, Va., assignor of one-half to H. P. Rea, Bellevue, Ky. Ventilating-screen. No. 1,141,163; June 1; Gaz. vol. 215; p. 26.
- Wilson, Howard G., Chicago, Ill. Gage. No. 1,129,937; Mar. 2; Gaz. vol. 212; p. 36.
- Wilson, Ira W., Post, Tex. Door-lock. No. 1,124,373; Jan. 12; Gaz. vol. 210; p. 452.
- Wilson, James, Watertown, S. D. Internal grinder. No. 1,156,962; Oct. 19; Gaz. vol. 219; p. 626.
- Wilson, James H., Denver, Colo. Saddle-pad. No. 1,128,086; Feb. 9; Gaz. vol. 211; p. 540.
- Wilson, James H., Denver, Colo. Trace. No. 1,166,292; Dec. 28; Gaz. vol. 221; p. 1373.
- Wilson, James M., assignor to Splittorf Electrical Company, Newark, N. J. Electric-current generator. No. 1,136,078; Apr. 20; Gaz. vol. 213; p. 788.
- Wilson, James M., assignor to Splittorf Electrical Company, Newark, N. J. Electric-current generator. No. 1,142,866; June 15; Gaz. vol. 215; p. 699.
- Wilson, James P., et al. (See Wilkins, Harry, assignor.)
- Wilson, James P., assignor to W. H. Grosscup, Los Angeles, Cal. Resilient connecting device. No. 1,139,319; May 11; Gaz. vol. 214; p. 597.
- Wilson, James S., Spokane, Wash. Combined developing and fixing tank. No. 1,158,879; Nov. 2; Gaz. vol. 220; p. 165.
- Wilson, James W., Tulsa, Okla. Valve-grinder. No. 1,134,362; Apr. 6; Gaz. vol. 213; p. 102.

Alphabetical list of patentees—Continued.

- Wilson, James W., Swift Current, Saskatchewan, Canada. Currycomb. No. 1,149,608; Aug. 10; Gaz. vol. 217; p. 504.
- Wilson, Jennie, Earl Gray, Saskatchewan, Canada. Fastener. No. 1,143,244; June 15; Gaz. vol. 215; p. 835.
- Wilson, Jeremiah L., Spread, Ga. Well-cleaner. No. 1,140,225; May 18; Gaz. vol. 214; p. 954.
- Wilson, John, Auckland, New Zealand. Apparatus for use in building concrete structures. No. 1,162,963; Dec. 7; Gaz. vol. 221; p. 80.
- Wilson, John C., assignor to The Automatic Time Stamp Company, Boston, Mass. Time-stamp. No. 1,139,247; May 11; Gaz. vol. 214; p. 573.
- Wilson, John E., Pen Argyl, Pa. Saw-guide. No. 1,147,063; July 20; Gaz. vol. 216; p. 771.
- Wilson, John M., Montclair, N. J., and C. N. Forrest, Brooklyn, N. Y., assignors, by mesne assignments, to The Wilson Remover Company, Newark, N. J. Paint and varnish remover. No. 1,129,770; Feb. 23; Gaz. vol. 211; p. 1208.
- Wilson, John P., and J. F. Jackson, Sydney, New South Wales, Australia. Rotary valve for internal-combustion engines. No. 1,164,605; Dec. 14; Gaz. vol. 221; p. 698.
- Wilson, John T., Jersey Shore, Pa. Piston-valve and packing for the same. No. 1,143,009; June 15; Gaz. vol. 215; p. 750.
- Wilson, John T., Jersey Shore, Pa. Packing for piston-valves. No. 1,145,730; July 6; Gaz. vol. 216; p. 265.
- Wilson, Joseph T., Clayton, N. J. Locking device for mop-holders. No. 1,148,559; Aug. 3; Gaz. vol. 217; p. 27.
- Wilson, Joseph T., assignor to Silver-Chamberlin Co., Clayton, N. J. Locking device for mop-holders. No. 1,148,558; Aug. 3; Gaz. vol. 217; p. 27.
- Wilson, Mabel. (See Wilson, Richard T., assignor.)
- Wilson-Maculen Company. (See Wilson, Charles H., assignor.)
- Wilson, Maurice E., Perry, Ohio. Fly-trap. No. 1,132,141; Mar. 16; Gaz. vol. 212; p. 874.
- Wilson, Milo F., New Brighton, Pa. Attachment for horseshoes. No. 1,141,596; June 1; Gaz. vol. 215; p. 182.
- Wilson, Olive L., St. Edward, Nebr. Sterilizer. No. 1,149,010; Aug. 3; Gaz. vol. 217; p. 186.
- Wilson, Pierce H., assignor of one-half to W. Herring, Talent, Oreg. Pan-lifter. No. 1,162,273; Nov. 30; Gaz. vol. 220; p. 1538.
- Wilson, Radcliff A., San Francisco, Cal. Distance-measuring device. No. 1,144,675; June 29; Gaz. vol. 215; p. 1381.
- Wilson, Ralph J., Chicago, Ill. Leaf for loose-leaf ledgers. No. 1,143,155; June 15; Gaz. vol. 215; p. 801.
- Wilson, Ray O. (See Sumner and Wilson.)
- Wilson, Reginald P., et al. (See Smith, William R., assignor.)
- Wilson Remover Company, The. (See Wilson and Forrest, assignors.)
- Wilson, Richard T., assignor to M. Wilson, Hastings, Mich. Artificial bait. No. 1,153,473; Sept. 14; Gaz. vol. 218; p. 431.
- Wilson, Robert, Hamilton, Ontario, assignor to Otis-Fensom Elevator Company, Limited, Toronto, Canada. Automatic elevator-gate lock. No. 1,159,457; Nov. 9; Gaz. vol. 220; p. 398.
- Wilson, Robert C., Newark, N. J. Rod-bending machine. No. 1,125,241; Jan. 19; Gaz. vol. 210; p. 798.
- Wilson, Robert G., Brooklyn, N. Y., assignor to Meadsuydam Company, East Orange, N. J. Bracket for constructing concrete walls. No. 1,132,059; Mar. 16; Gaz. vol. 212; p. 844.
- Wilson, Robert H., Venice, Ill. Mail-transporting apparatus. No. 1,162,274; Nov. 30; Gaz. vol. 220; p. 1538.
- Wilson, Roland F., Denver, Colo. Headlight. No. 1,144,676; June 29; Gaz. vol. 215; p. 1381.
- Wilson, Roland F., Denver, Colo. Headlight. No. 1,148,942; Aug. 3; Gaz. vol. 217; p. 162.
- Wilson, Roland F., Denver, Colo. Headlight. No. 1,154,824; Sept. 28; Gaz. vol. 218; p. 961.
- Wilson, Solomon, et al. (See Adams, Frank C., assignor.)
- Wilson, Solon G., et al. (See Buchanan, Clinton C., assignor.)
- Wilson, Stephen G., Philadelphia, Pa. Brush or mirror holder or back. No. 1,134,712; Apr. 6; Gaz. vol. 213; p. 230.
- Wilson, Stephen G., Philadelphia, Pa. Broom-guard. No. 1,139,320; May 11; Gaz. vol. 214; p. 597.
- Wilson Storage Battery Company. (See Wilson, David H., assignor.)
- Wilson, Theodore F., Washington, D. C. Camp equipment. No. 1,158,356; Oct. 26; Gaz. vol. 219; p. 1177.
- Wilson, Thomas J., Saline county, Ark. Cutter-bar for harvesting machines. No. 1,164,691; Dec. 21; Gaz. vol. 221; p. 770.
- Wilson, Thomas N., Spokane, Wash., assignor of one-half to A. G. Witmer, Portland, Oreg. Trowel. No. 1,166,293; Dec. 28; Gaz. vol. 221; p. 1373.
- Wilson, Wallace, Seattle, Wash. Oil-burner. No. 1,123,970; Jan. 5; Gaz. vol. 210; p. 262.
- Wilson, Walter A., Armlay, Leeds, England. Gas-fire. No. 1,156,735; Oct. 12; Gaz. vol. 219; p. 517.
- Wilson, William B., West Huntsville, Ala. Wire-stretcher. No. 1,144,677; June 29; Gaz. vol. 215; p. 1381.
- Wilson, William E., Detroit, Mich. Axle-trimming device. No. 1,133,519; Mar. 30; Gaz. vol. 212; p. 1458.
- Wilson, William H., St. Paul, Minn. Car-truck. No. 1,131,884; Mar. 16; Gaz. vol. 212; p. 780.
- Wilson, William H., Jamesville, N. Y. Non-slipping device. No. 1,155,293; Sept. 28; Gaz. vol. 218; p. 1118.
- Wilson, William R. (See Hubbard and Wilson.)
- Wilson, William W. (See Willard and Wilcox, assignors.)
- Wilson, William W., Dallas, Tex. Fastener. No. 1,144,576; June 29; Gaz. vol. 215; p. 1346.
- Wilson, Winifred. (See McGowan, Owen J., assignor.)
- Wilson, Wyle T., Philadelphia, Pa. Cloth-board with cushioning edges. No. 1,138,434; May 4; Gaz. vol. 214; p. 251.
- Wilson, Wyle T., Philadelphia, Pa. Means for holding a plurality of gas-mantles. No. 1,138,435; May 4; Gaz. vol. 214; p. 252.
- Wilt, Colin D., Chicago, Ill. Extensible clothing-support. No. 1,131,765; Mar. 16; Gaz. vol. 212; p. 736.
- Wilt, Dorah S., and V. O. Williams, Richmond, Ind. Spring-horseshoe. No. 1,127,561; Feb. 9; Gaz. vol. 211; p. 354.
- Wilt, Dorah S., and V. O. Williams, Richmond, Ind. Horseshoe. No. 1,127,562; Feb. 9; Gaz. vol. 211; p. 354.
- Wilt, Lorenzo, Newark, N. J. Engine-stopping device. No. 1,131,193; Mar. 9; Gaz. vol. 212; p. 503.
- Wilthew, George C., Mahanoy City, Pa. Mining apparatus. No. 1,164,900; Dec. 21; Gaz. vol. 221; p. 842.
- Wilton, Ralph P., Wrightsville, Pa. Vending-machine. No. 1,160,557; Nov. 16; Gaz. vol. 220; p. 840.
- Wilts Veneer Company. (See Staley and Simmons, assignors.)
- Wiltshire, Fred L., assignor, by mesne assignments, to Martinsville Ignition Company, Martinsville, Ind. Electrical transformer-controller and distributor. No. 1,158,091; Oct. 26; Gaz. vol. 219; p. 1085.
- Wiltzie, Spencer A., assignor to The Griswold Manufacturing Company, Erie, Pa. Percolator. No. 1,131,978; Mar. 16; Gaz. vol. 212; p. 814.
- Wiltzan, Clarence, et al. (See Belicza, Eugene, assignor.)
- Wilzin, Arthur, St.-Ouen, France. Producing polished spoons, forks, and other metal articles. No. 1,133,775; Mar. 30; Gaz. vol. 212; p. 1550.
- Wilzin, Arthur, St.-Ouen, France. Manufacture of plated flat-ware. No. 1,139,390; May 11; Gaz. vol. 214; p. 624.
- Wimmer, Bernhard. (See Daly and Wimmer.)
- Wimmer, Edith, Loveland, and J. See, Steamboat Springs, Colo. Marking-gage and try-square. No. 1,142,215; June 8; Gaz. vol. 215; p. 434.
- Wimpfheimer, William, Granby, Conn. Motor-vehicle fender. No. 1,146,830; July 20; Gaz. vol. 216; p. 689.
- Winans, Daniel M., Binghamton, N. Y. Talking-machine with repeat attachment. No. 1,165,927; Dec. 28; Gaz. vol. 221; p. 1239.
- Winans, Edwin, New York, assignor to C. D. Lasher, North Germantown, N. Y. Air-feed for furnaces. No. 1,134,793; Apr. 6; Gaz. vol. 213; p. 259.
- Winans, John C., and H. Kelley, Waldron, Mich. Kerosene-vaporizer and gas-generator. No. 1,150,725; Aug. 17; Gaz. vol. 217; p. 960.
- Winans Manufacturing Company. (See Winans, Wesley G., assignor.)
- Winans, Milton E., Newark, N. J., assignor to Oxweld Acetylene Company, Chicago, Ill. Blowpipe. No. 1,143,677; June 22; Gaz. vol. 215; p. 1008.
- Winans, Milton E., Newark, N. J., assignor to Oxweld Acetylene Company, Chicago, Ill. Dart or arrow. No. 1,162,200; Nov. 30; Gaz. vol. 220; p. 1512.
- Winans, Milton E., and P. A. Rose, Newark, N. J., assignors to Oxweld Acetylene Company, Chicago, Ill. Metal-working blowpipe. No. 1,162,199; Nov. 30; Gaz. vol. 220; p. 1511.
- Winans, Wesley G., assignor to Winans Manufacturing Company, Detroit, Mich. Ladder-jack. No. 1,143,678; June 22; Gaz. vol. 215; p. 1008.
- Winans, Wilson R., Winans City, Oreg. Support and protector for fruit-bearing trees. No. 1,182,087; Feb. 9; Gaz. vol. 211; p. 540.
- Winbray, Dave, Hot Springs, Ark. Aerating device. No. 1,150,238; Aug. 17; Gaz. vol. 217; p. 792.
- Winch, William O. (See Chiniquy and Winch.)
- Winchell, Charles W., Geneva, N. Y. Tea and coffee pot. No. 1,148,422; July 27; Gaz. vol. 216; p. 1276.
- Winchell, Raymond L. (See Erwin, Lloyd, Mann, and Winchell.)
- Winchester, Benjamin T., Windsor Hills, assignor, by mesne assignments, to Sharp and Dohme, Baltimore, Md. Capsule-machine. No. 1,125,619; Jan. 19; Gaz. vol. 210; p. 931.
- Winchester, Benjamin T., deceased; W. V. Winchester, administrator, Windsor Hills, Md., assignor to Sharp & Dohme. Capsule-machine. No. 1,146,539; July 13; Gaz. vol. 216; p. 569.
- Winchester, Benjamin T., Windsor Hills, assignor, by mesne assignments, to Sharp & Dohme, Baltimore, Md. Capsule-assembling machine. No. 1,155,023; Sept. 28; Gaz. vol. 218; p. 1027.

Alphabetical list of patentees—Continued.

- Winchester, Ellis C., Thermopolis, Wyo. Detonating mechanism for night guards or alarms. No. 1,159,458; Nov. 9; Gaz. vol. 220; p. 399.
- Winchester, Fred E., Manderson, Wyo. Wheel-lock. No. 1,156,197; Oct. 12; Gaz. vol. 219; p. 327.
- Winchester, John E., Charlotte, N. C. Locomotive valve-gear. No. 1,146,678; July 13; Gaz. vol. 216; p. 617.
- Winchester Manufacturing Company. (See Kinspert, George H., assignor.)
- Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
- Winchester, Samuel, *et al.* (See Bragg, Julius, assignor.)
- Winchester, William V., administrator. (See Winchester, Benjamin T.)
- Winchester, Winfred C. (See Fountain, Waters, and Winchester.)
- Winckler, Aage E., Racine, Wis., assignor to Robinson & Robinson. Internal-combustion engine. No. 1,130,872; Mar. 9; Gaz. vol. 212; p. 393.
- Windeler, George E., Stockport, England, assignor to General Electric Company. Fuel-injector. No. 1,157,273; Oct. 19; Gaz. vol. 219; p. 737.
- Windell, Frank D., Philadelphia, assignor of one-half to H. L. Williams, Pittsburgh, Pa. Apparatus for automatically controlling relative humidity. No. 1,153,987; Sept. 21; Gaz. vol. 218; p. 645.
- Windle, James B. (See Nolte, Frank F., assignor.)
- Windle, John E., Worcester, Mass. Clutch for winding-machines and the like. No. 1,128,565; Feb. 16; Gaz. vol. 211; p. 754.
- Window Glass Machine Company. (See Bishop, Frederic L., assignor.)
- Window Glass Machine Company. (See Carnahan, Orlando B., assignor.)
- Window Glass Machine Company. (See Monroe, William L., assignor.)
- Window Glass Machine Company. (See Thompson and Kajut, assignors.)
- Window Glass Machine Company. (See Thornburg, Lincoln A., assignor.)
- Windridge, James, assignor to The Lyman Gun Sight Corporation, Middlefield, Conn. Sight for firearms. No. 1,138,708; May 11; Gaz. vol. 214; p. 383.
- Windridge, James, assignor to The Lyman Gun Sight Corporation, Middlefield, Conn. Sight for firearms. No. 1,138,709; May 11; Gaz. vol. 214; p. 383.
- Wine, Noah L., assignor of one-fourth to F. T. McNulty and one-fourth to L. C. Curtright, Fort Myers, Fla. Electric display-board. No. 1,141,740; June 1; Gaz. vol. 215; p. 231.
- Wine Railway Appliance Company, The. (See Wine, William E., assignor.) (Reissue.)
- Wine, William E., Toledo, Ohio, assignor to The Wine Railway Appliance Company. Ladder. (Reissue.) No. 1,388,7; Feb. 23; Gaz. vol. 211; p. 1233.
- Wineman, Parker, Chicago, Ill. Apparatus for preventing blow-holes in castings. No. 1,161,101; Nov. 23; Gaz. vol. 220; p. 1078.
- Wines, Joseph H., Detroit, Mich. Nut-lock. No. 1,155,858; Oct. 5; Gaz. vol. 219; p. 187.
- Winestock, Otto C., Perkinsville, Vt., assignor to The General Waste-Paper Recovery Company, Baltimore, Md. Deinking. No. 1,138,596; May 4; Gaz. vol. 214; p. 304.
- Winestock, Otto C., Perkinsville, Vt., assignor to The General Waste-Paper Recovery Company, Baltimore, Md. Deinking apparatus. No. 1,138,597; May 4; Gaz. vol. 214; p. 305.
- Winfield, Amanda C. (See Winfield, William C., assignor.)
- Winfield Electric Welding Machine Company, The. (See Winfield and Taylor, assignors.)
- Winfield Manufacturing Company, The. (See Taylor, Albert C., assignor.)
- Winfield, William C., assignor to A. C. Winfield, Warren, Ohio. Making metal barrels and kegs. No. 1,151,983; Aug. 31; Gaz. vol. 217; p. 1495.
- Winfield, William C., assignor to A. C. Winfield, Warren, Ohio. Making bilged cylinders. No. 1,151,984; Aug. 31; Gaz. vol. 217; p. 1496.
- Winfield, William C., and A. C. Taylor, assignors to The Winfield Electric Welding Machine Company, Warren, Ohio. Electric welding-machine. No. 1,154,470; Sept. 21; Gaz. vol. 218; p. 812.
- Wing, Augustus M., Portland, Oreg. Type-writer carriage-return. No. 1,152,684; Sept. 7; Gaz. vol. 218; p. 112.
- Wing, Frederick T., Lincoln, and J. D. Stires, Columbus, Nebr.; said Wing assignor to said Stires. Shipping-crate. No. 1,149,011; Aug. 3; Gaz. vol. 217; p. 187.
- Wing, George C., trustee. (See Wing and Lipps, assignors.)
- Wing, George C., and L. P. Lipps, Cleveland, Ohio, assignors to said Wing, trustee. Street-car and similar vehicle. No. 1,142,867; June 15; Gaz. vol. 215; p. 700.
- Wing, Harry L., assignor to Wing Machine Company, Rumford, Me. Music-leaf turner. No. 1,146,379; July 13; Gaz. vol. 216; p. 511.
- Wing, John F., Chicago, Ill., assignor, by mesne assignments, to Continental Can Company, Inc. Can-closing machine. No. 1,132,295; Mar. 16; Gaz. vol. 212; p. 931.
- Wing Machine Company. (See Wing, Harry L., assignor.)
- Wingate, Mack P. (See Deane and Wingate.)
- Winger, Theodore O., Amery, Wis. Carbureter. No. 1,155,184; Sept. 28; Gaz. vol. 218; p. 1086.
- Winger, William W., Wolcott, Ind. Gearing. (Reissue.) No. 1,397,9; Sept. 14; Gaz. vol. 218; p. 576.
- Wingerd, David H., Ramona, Kans. Ladder-holding device. No. 1,142,072; June 8; Gaz. vol. 215; p. 383.
- Wingerd, David H., Ramona, Kans. Coupling device. No. 1,143,873; June 22; Gaz. vol. 215; p. 1074.
- Wingert, John W., assignor of one-half to F. P. Steinkirchner, Wichita, Kans. Lacing-hook. No. 1,159,634; Nov. 9; Gaz. vol. 220; p. 461.
- Wingert, Paul, Montpelier, Ohio. Furnace. No. 1,160,232; Nov. 16; Gaz. vol. 220; p. 726.
- Winget, Nell F., Minneapolis, Minn. Bonnet. No. 1,146,829; July 20; Gaz. vol. 216; p. 688.
- Wingett, Calvin B., Hartington, Nebr. Exhibition-cabinet. No. 1,123,638; Jan. 5; Gaz. vol. 210; p. 151.
- Wingett, John N., Denver, Colo. Automatically-registering valve. No. 1,131,885; Mar. 16; Gaz. vol. 212; p. 780.
- Wingquist, Sven G., assignor to Aktiebolaget Svenska Kullagerfabriken, Säfve Strandgata, Gåmestaden, Gottenborg, Sweden. Self-adjusting ball-bearing. (Reissue.) No. 1,386,9; Jan. 12; Gaz. vol. 210; p. 691.
- Wingquist, Sven G., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-bearing. (Reissue.) No. 1,392,6; June 8; Gaz. vol. 215; p. 636.
- Wingquist, Sven G., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Bearing. No. 1,150,844; Aug. 17; Gaz. vol. 217; p. 1003.
- Winiecki, Tadeus, Raymond, Wash. Educational appliance. No. 1,142,651; June 8; Gaz. vol. 215; p. 585.
- Wininger, John H., Collinsville, Ill. Acetylene-gas lamp. No. 1,130,456; Mar. 2; Gaz. vol. 212; p. 215.
- Wink, Harvey E., *et al.* (See Savitz, Oscar L., assignor.)
- Winkel, Christopher, assignor to National Sewing Machine Co., Belvidere, Ill. Loop-taker-operating means for sewing-machines. No. 1,127,952; Feb. 9; Gaz. vol. 211; p. 493.
- Winkelmeyer, John, assignor to Specialty Manufacturing Company, Greenfield, Ind. Vending-machine. No. 1,139,248; May 11; Gaz. vol. 214; p. 574.
- Winkle, Guy, Cincinnati, Ohio. Chicken-watering fountain. No. 1,154,825; Sept. 28; Gaz. vol. 218; p. 961.
- Winkler, Albin, assignor of one-half to R. Leibfried, Petrograd, Russia. Knitting-machine. No. 1,165,478; Dec. 28; Gaz. vol. 221; p. 1083.
- Winkler, Alfred. (See Dünnebier and Winkler.)
- Winkler, Carl, Berne, Switzerland. Apparatus for drying matrices used for stereotype purposes. No. 1,133,208; Mar. 23; Gaz. vol. 212; p. 1311.
- Winkler, Franz, Schweinfurt, Germany. Spacer for ball-bearings. No. 1,155,185; Sept. 28; Gaz. vol. 218; p. 1086.
- Winkler, Franz, Schweinfurt, Germany. Coupling device. No. 1,163,298; Dec. 7; Gaz. vol. 221; p. 197.
- Winkler, Joseph F., Philadelphia, Pa. Refrigerating apparatus. No. 1,164,438; Dec. 14; Gaz. vol. 221; p. 641.
- Winkley Engineering Company. (See Winkley and Hart, assignors.)
- Winkley, Erastus E., Lynn, Mass. Rubber-sole-rolling machine. No. 1,124,190; Jan. 5; Gaz. vol. 210; p. 338.
- Winkley, Erastus E., Lynn, Mass. Machine for inserting fasteners. No. 1,125,620; Jan. 19; Gaz. vol. 210; p. 932.
- Winkley, Erastus E., Lynn, Mass. Sole-machine. No. 1,129,370; Feb. 23; Gaz. vol. 211; p. 1071.
- Winkley, Erastus E., Lynn, Mass. Controlling mechanism. No. 1,129,371; Feb. 23; Gaz. vol. 211; p. 1072.
- Winkley, Erastus E., Lynn, Mass. Automatic shoe-machine. No. 1,129,373; Feb. 23; Gaz. vol. 211; p. 1073.
- Winkley, Erastus E., Lynn, Mass. Internal-combustion engine. No. 1,131,099; Mar. 9; Gaz. vol. 212; p. 470.
- Winkley, Erastus E., Lynn, Mass. Insole-heel-seat-trimming machine. No. 1,134,027; Mar. 30; Gaz. vol. 212; p. 1634.
- Winkley, Erastus E., Lynn, Mass. Cutting-machine. No. 1,136,193; Apr. 20; Gaz. vol. 213; p. 829.
- Winkley, Erastus E., Lynn, Mass. Work-support. No. 1,138,710; May 11; Gaz. vol. 214; p. 384.
- Winkley, Erastus E., Lynn, Mass. Self-starting engine. No. 1,143,156; June 15; Gaz. vol. 215; p. 801.
- Winkley, Erastus E., Lynn, Mass. Sole-leveling machine. No. 1,146,295; July 13; Gaz. vol. 216; p. 481.
- Winkley, Erastus E., Lynn, Mass. Machine for operating on shoe-soles. No. 1,152,584; Sept. 7; Gaz. vol. 218; p. 76.
- Winkley, Erastus E., Lynn, Mass. Machine for feeding together the marginal portions of thin flexible fabric or other sheet material. No. 1,158,763; Nov. 2; Gaz. vol. 220; p. 124.
- Winkley, Erastus E., Lynn, Mass. Stop mechanism. No. 1,163,799; Dec. 14; Gaz. vol. 221; p. 419.
- Winkley, Erastus E., Lynn, Mass. Lasting-machine. No. 1,163,800; Dec. 14; Gaz. vol. 221; p. 420.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 1,129,372; Feb. 23; Gaz. vol. 211; p. 1072.

Alphabetical list of patentees—Continued.

- Winkley, Erastus E., and F. V. Hart, Lynn, Mass., assignors, by mesne assignments, to Winkley Engineering Company, Kittery, Me. Hydrocarbon-motor. No. 1,128,208; Feb. 9; Gaz. vol. 211; p. 581.
- Winkley, Erastus E., and F. V. Hart, Lynn, Mass., assignors, by mesne assignments, to Winkley Engineering Company, Kittery, Me. Carburetor for hydrocarbon-motors. No. 1,145,854; July 6; Gaz. vol. 216; p. 307.
- Winlund, Nicholas J., Rockford, Ill. Dulcimer-action. No. 1,137,562; Apr. 27; Gaz. vol. 213; p. 1354.
- Winn, Charles A. (See Porter and Winn.)
- Winn, Charles S., Rockford, Ill. Button. No. 1,141,090; May 25; Gaz. vol. 214; p. 1290.
- Winn, Charles S., and C. A. Wall, Rockford, Ill. Roof-scaffold bracket. No. 1,152,685; Sept. 7; Gaz. vol. 218; p. 113.
- Winn, Elisha S., Culloden, Ga. Mop or brush. No. 1,148,560; Aug. 3; Gaz. vol. 217; p. 27.
- Winn, Elisha S., Culloden, Ga. Mop. No. 1,148,561; Aug. 3; Gaz. vol. 217; p. 28.
- Winn, John J., Kimball, S. D. Rail-fastening device. No. 1,142,742; June 8; Gaz. vol. 215; p. 613.
- Winn, Laura, Chicago, Ill. Sanitary semiskirt. No. 1,164,970; Dec. 21; Gaz. vol. 221; p. 867.
- Winne, Roy, Schenectady, N. Y., assignor to General Electric Company. Method of and means for effecting the combination of gases. No. 1,166,294; Dec. 28; Gaz. vol. 221; p. 1373.
- Winne, William P., Albany, assignor to H. M. Sage, Menands, N. Y. Iron bedstead. No. 1,141,164; June 1; Gaz. vol. 215; p. 26.
- Winning, Robert M., Carterville, Ill. Automatic hen-marker. No. 1,161,569; Nov. 23; Gaz. vol. 220; p. 1246.
- Winningham, John W. (See Waugh, Edward H., assignor.)
- Winningham, John W., Seattle, Wash. Sorting apparatus. No. 1,148,066; July 27; Gaz. vol. 216; p. 1150.
- Wingquist, Andrew T., assignor of one-half to H. W. Hansen, Aberdeen, Wash. Shelving. No. 1,164,439; Dec. 14; Gaz. vol. 221; p. 642.
- Wingquist, Victor, assignor of one-half to A. Rudeen, Rockford, Ill. Catching and holding device. No. 1,145,640; July 6; Gaz. vol. 216; p. 232.
- Winslow, Linwood, A., Norfolk, Va. Tire-rack. No. 1,133,598; Mar. 30; Gaz. vol. 212; p. 1486.
- Winslow, Marion H., Terre Haute, Ind. Railway weighing-scale. No. 1,133,901; Mar. 30; Gaz. vol. 212; p. 1595.
- Winslow Safety High-Pressure Boiler Co. (See Winslow, William H., assignor.)
- Winslow, William H., Chicago, Ill., assignor to Winslow Safety High-Pressure Boiler Co. Engine. No. 1,150,830; Aug. 17; Gaz. vol. 217; p. 996.
- Winslow, William H., assignor to Winslow Safety High-Pressure Boiler Co., Chicago, Ill. Pilot-burner. No. 1,165,373; Dec. 21; Gaz. vol. 221; p. 1008.
- Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Call-distributing system. No. 1,144,084; June 22; Gaz. vol. 215; p. 1148.
- Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,157,746; Oct. 26; Gaz. vol. 219; p. 965.
- Winston, Edward L. (See Moore and Winston.)
- Winter, Charles, Woodbury, N. J., assignor to Star Seal Company. Seal-feed for bottle-capping machines. No. 1,140,090; May 18; Gaz. vol. 214; p. 908.
- Winter, Charles, Woodbury, N. J., assignor to Star Seal Company. Seal-feed for bottle-sealing machines. No. 1,141,165; June 1; Gaz. vol. 215; p. 26.
- Winter, Charles, Woodbury, N. J., assignor to Star Seal Company. Machine for applying bottle-seals. No. 1,155,119; Sept. 28; Gaz. vol. 218; p. 1063.
- Winter, Charles N., Mahwah, N. J. Adjustable link. No. 1,129,153; Feb. 23; Gaz. vol. 211; p. 996.
- Winter, Charles N., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,130,231; Mar. 2; Gaz. vol. 212; p. 135.
- Winter, Courtney P., Washington, D. C. Cabinet for dispensing separate sheets from paper packs. No. 1,164,047; Dec. 14; Gaz. vol. 221; p. 505.
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Power-factor regulator. No. 1,165,928; Dec. 28; Gaz. vol. 221; p. 1240.
- Witer, Gabriel, deceased, (O. Wolfrum, administrator, Vienna, Austria-Hungary,) and F. Eichberg, Berlin, Germany. Dynamo-electric machine. No. 1,127,563; Feb. 9; Gaz. vol. 211; p. 354.
- Witer, Gabriel, deceased, (O. Wolfrum, administrator, Vienna, Austria-Hungary,) and F. Eichberg, Berlin, Germany. Dynamo-electric machine. No. 1,127,564; Feb. 9; Gaz. vol. 211; p. 355.
- Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stamping-machine. No. 1,128,209; Feb. 9; Gaz. vol. 211; p. 581.
- Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stamping-machine. No. 1,137,103; Apr. 27; Gaz. vol. 213; p. 1191.
- Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Toggle. No. 1,140,428; May 25; Gaz. vol. 214; p. 1060.
- Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Starting and stopping mechanism. No. 1,147,202; July 20; Gaz. vol. 216; p. 820.
- Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stamping-machine. No. 1,149,240; Aug. 10; Gaz. vol. 217; p. 370.
- Winter, John M., Reading, Pa. Vacuum-cleaner. No. 1,146,540; July 13; Gaz. vol. 216; p. 570.
- Winter, Nelson B., Frostburg, Md. Clip for metallic clothes-lines. No. 1,157,747; Oct. 26; Gaz. vol. 219; p. 965.
- Winter, William A., East Orange, N. J., and R. Klett, New York, N. Y., assignors to Kny-Scheerer Company. Mechanical time-switch for X-ray systems. No. 1,129,263; Feb. 23; Gaz. vol. 211; p. 1034.
- Winterborne, William H., assignor to San Antonio Machine & Supply Co., San Antonio, Tex. Double-stroke pumping-jack. No. 1,132,538; Mar. 16; Gaz. vol. 212; p. 1019.
- Winterhoff, Benjamin F., Elkhart, Ind. Sheet-metal-tube-planishing machine. No. 1,162,536; Nov. 30; Gaz. vol. 220; p. 1627.
- Winterrowd, William H. (See Chidley and Winterrowd.)
- Winters, Charles A. (See Royle, Charles E., assignor.)
- Winters-Coleman Scale Company, The. (See Osgood, Louis A., assignor.)
- Winters, Edward B., assignor to The Johnson Spring Garter Co., Coffeyville, Kans. Garter. No. 1,127,565; Feb. 9; Gaz. vol. 211; p. 355.
- Winters, Edward B., assignor to The Johnson Spring Garter Co., Coffeyville, Kans. Garter. No. 1,127,566; Feb. 9; Gaz. vol. 211; p. 355.
- Winters, Edward B., assignor to The Johnson Spring Garter Co., Coffeyville, Kans. Garter. No. 1,127,567; Feb. 9; Gaz. vol. 211; p. 356.
- Winters, Edward B., assignor to Johnson Spring Garter Co., Coffeyville, Kans. Garter. No. 1,153,147; Sept. 7; Gaz. vol. 218; p. 275.
- Winters, Ferdinand L. (See Eichholtz and Winters.)
- Winton, Alexander, Cleveland, Ohio. Controller for explosion-engines. No. 1,124,987; Jan. 12; Gaz. vol. 210; p. 671.
- Winton, Alexander, assignor to Winton Gas Engine and Manufacturing Company, Cleveland, Ohio. Gas-engine. No. 1,134,794; Apr. 6; Gaz. vol. 213; p. 260.
- Winton, Alexander, assignor to Winton Gas Engine and Manufacturing Company, Cleveland, Ohio. Gas-engine. No. 1,134,795; Apr. 6; Gaz. vol. 213; p. 260.
- Winton, Alexander, assignor to Winton Gas Engine and Manufacturing Company, Cleveland, Ohio. Oil-vaporizer for combustion-engines. No. 1,146,679; July 13; Gaz. vol. 216; p. 617.
- Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Adjustable steering-column for automobiles. No. 1,125,621; Jan. 19; Gaz. vol. 210; p. 932.
- Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Pedal. No. 1,153,743; Sept. 14; Gaz. vol. 218; p. 526.
- Winton Gas Engine and Manufacturing Company. (See Winton, Alexander, assignor.)
- Winton Motor Carriage Company, The. (See Anderson, Harold B., assignor.)
- Winton Motor Carriage Company, The. (See Winton and Anderson, assignors.)
- Winwood, George M., Jr., Springfield, Ohio. Seed-drill. No. 1,133,351; Mar. 30; Gaz. vol. 212; p. 1397.
- Winwood, George M., Jr., Springfield, Ohio. Grain-drill. No. 1,144,274; June 22; Gaz. vol. 215; p. 1217.
- Winzer, Charles B., Fulham, London, assignor to G. Royle, London, England. Apparatus for operating propellers for boats and the like. No. 1,133,599; Mar. 30; Gaz. vol. 212; p. 1487.
- Wipperman, Richard O., Chicago, Ill. Stump-puller. No. 1,130,457; Mar. 2; Gaz. vol. 212; p. 216.
- Wire Goods Company, The. (See Washburn, Reginald, assignor.)
- Wire Goods Company. (See Washburn and Martin, assignors.)
- Wire Products Company. (See Fanshawe, Henry E., assignor.)
- Wirebounds Patents Company. (See Healy, William P., assignor.)
- Wirebounds Patents Company. (See Inwood and Lavenberg, assignors.)
- Wirebounds Patents Company. (See Miller, Julius J., assignor.)
- Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
- Wireless Telegraph Exploitation Company. (See Vreeland, Frederick K., assignor.)
- Wiring Reel & Tool Co. (See Crawford, Frank, assignor.)
- Wirsig, Alfred, Hoboken, N. J. Swimming apparatus. No. 1,142,652; June 8; Gaz. vol. 215; p. 586.
- Wirsing, Andrew E., Milwaukee, Wis. Antiskidding rail-clamp mechanism. No. 1,137,104; Apr. 27; Gaz. vol. 213; p. 1191.
- Wirsing, Thomas R., Roanoke, Va. Shaving-brush. No. 1,155,859; Oct. 5; Gaz. vol. 219; p. 187.
- Wirsing, Werner L., Stuttgart, Ark. Manure-loader. No. 1,165,642; Dec. 28; Gaz. vol. 221; p. 1142.

Alphabetical list of patentees—Continued.

- Wirt, Arthur A., Omaha, Nebr. Weeding implement. No. 1,133,776; Mar. 30; Gaz. vol. 212; p. 1551.
- Wirt, Charles, Philadelphia, Pa., assignor, by mesne assignments, to Macallen Company, Boston, Mass. Insulating-joint. No. 1,164,971; Dec. 21; Gaz. vol. 221; p. 868.
- Wirt, George A., Greensburg, Ind. Fodder-carrier. No. 1,130,786; Mar. 9; Gaz. vol. 212; p. 363.
- Wirt, Reuben D., Philadelphia, Pa. Note-paper holder. No. 1,166,031; Dec. 28; Gaz. vol. 221; p. 1276.
- Wirth, Charles, Scranton, Pa. Crude-oil burner. No. 1,138,165; May 4; Gaz. vol. 214; p. 156.
- Wirth, Charles, assignor to Imperial Novelty Co. of Newark, N. J., Newark, N. J. Door-spring. No. 1,145,731; July 6; Gaz. vol. 216; p. 266.
- Wirth, Dorsey M., Bucyrus, Ohio. Glove or gauntlet. No. 1,135,747; Apr. 13; Gaz. vol. 213; p. 633.
- Wirth, Friedrich E., Hartmannsdorf, assignor to Schubert & Salzer Maschinenfabrik, Aktiengesellschaft, Chemnitz, Germany. Warp-frame. No. 1,133,520; Mar. 30; Gaz. vol. 212; p. 1458.
- Wirth, John A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-former for armatures. No. 1,141,166; June 1; Gaz. vol. 215; p. 27.
- Wirth, John A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-former for armatures. No. 1,141,891; June 1; Gaz. vol. 215; p. 281.
- Wirtz, Emery L. (See Ziegler and Wirtz.)
- Wirz, August H., Moylan, assignor to A. H. Wirz, Incorporated, Chester, Pa. Bottle-stopper. No. 1,140,928; May 25; Gaz. vol. 214; p. 1237.
- Wirz, August H., Moylan, assignor to A. H. Wirz, Incorporated, Chester, Pa. Bottle-stopper. No. 1,146,956; July 20; Gaz. vol. 216; p. 745.
- Wirz, Henry, Los Angeles, Cal. Collapsible demountable tire-rim. No. 1,163,055; Dec. 7; Gaz. vol. 221; p. 111.
- Wisconsin Chair Company. (See Thommen, William H., assignor.)
- Wisconsin Iron and Wire Works. (See Connell, James R., assignor.)
- Wisconsin Stable Equipment Company. (See Moldenhauer, Frederick W., assignor.)
- Wisconsin Stable Equipment Company. (See Moldenhauer and Jones, assignors.)
- Wisconsin Trust Company, administrator. (See Richardson, Wilber E.)
- Wise, Alvia F., assignor of one-half to H. C. Dunning and one-half to C. E. Dennis, Columbus, Ohio. Combination-switch. No. 1,156,121; Oct. 12; Gaz. vol. 219; p. 303.
- Wise Brothers. (See Miller, George J., assignor.)
- Wise Brothers. (See Wise, Leo H., assignor.)
- Wise, Charles F. (See Cosad and Wise.)
- Wise, John. (See McCabe and Wise.)
- Wise, Leo H., New York, N. Y., assignor to Wise Brothers, Baltimore, Md. Overallis. No. 1,145,855; July 6; Gaz. vol. 216; p. 308.
- Wise, Nathan, New York, N. Y. Electrical massage instrument. No. 1,123,639; Jan. 5; Gaz. vol. 210; p. 151.
- Wise, William E., Williamsport, Pa. Axle. No. 1,143,475; June 15; Gaz. vol. 215; p. 914.
- Wise, William M., Youngstown, Ohio, and R. C. Michaels, Pittsburgh, Pa. Antiskid-tread for tires. No. 1,127,339; Feb. 2; Gaz. vol. 211; p. 235.
- Wiseley, Don C., Spokane, Wash. Automatic mechanism for operating camera bulb or contact-release. No. 1,155,981; Oct. 5; Gaz. vol. 219; p. 227.
- Wiseley, Francis M., Los Angeles, Cal. Pumping system. No. 1,150,473; Aug. 17; Gaz. vol. 217; p. 873.
- Wiseman, Claude, J. J. McKinney, and J. A. Wiseman, Milwaukie, Oreg. Wrench. No. 1,166,295; Dec. 28; Gaz. vol. 221; p. 1374.
- Wiseman, Edmund, Luton, England. Straw-plait-sewing machine. No. 1,137,249; Apr. 27; Gaz. vol. 213; p. 1244.
- Wiseman, Edmund, Luton, England. Tension mechanism of straw-plait-sewing machines. No. 1,137,250; Apr. 27; Gaz. vol. 213; p. 1245.
- Wiseman, Elmer, Milwaukie, Oreg. Tack-puller. No. 1,141,741; June 1; Gaz. vol. 215; p. 231.
- Wiseman, Elmer, Milwaukie, Oreg. Tack-puller. No. 1,141,742; June 1; Gaz. vol. 215; p. 231.
- Wiseman, Joseph A. (See Wiseman, McKinney, and Wiseman.)
- Wisner, George E., Steubenville, Ohio. Apparatus for recovering metal scrap. No. 1,152,867; Sept. 7; Gaz. vol. 218; p. 179.
- Wiser, Arthur B., Alliance, assignor to The Union Metal Manufacturing Company, Canton, Ohio. Mail-box. No. 1,132,756; Mar. 23; Gaz. vol. 212; p. 1147.
- Wisher, Jno. A. (See Tinsley, Waller P., assignor.)
- Wisner Manufacturing Company. (See Ogilvie, Frederick H., assignor.)
- Wissinger, Theodore G., Lewisburg, Ohio. Gasolene-tank heater. No. 1,156,198; Oct. 12; Gaz. vol. 219; p. 328.
- Wissman, Henry C., Youngstown, Ohio, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,148,562; Aug. 3; Gaz. vol. 217; p. 28.
- Wisted, James, Myncester, British Columbia, Canada. Convertible sleigh and wheeled vehicle. No. 1,134,657; Apr. 6; Gaz. vol. 213; p. 210.
- Wistendahl, Jacob C. N., Brooklyn, N. Y. Rope-lock. No. 1,164,692; Dec. 21; Gaz. vol. 221; p. 771.
- Wisterman, Frank S., Galion, Ohio. Grave-vault. No. 1,131,886; Mar. 16; Gaz. vol. 212; p. 781.
- Wiswell, Frederick A., assignor of two-fifths to E. E. Phelan, Oakland, Cal. Hollow tile or block clamp. No. 1,146,223; July 13; Gaz. vol. 216; p. 457.
- Witart, Mates, Waterbury, Conn. Watchmaker's lathe. No. 1,160,353; Nov. 16; Gaz. vol. 220; p. 768.
- Witham, Alvah C., Haverhill, Mass. Wood-heel-top-lift-attaching device. No. 1,148,269; July 27; Gaz. vol. 216; p. 1222.
- Witherbee, Benjamin H., Red Cloud, Nebr. Lever. No. 1,156,961; Oct. 19; Gaz. vol. 219; p. 626.
- Witherill, Samuel P. (See Queneau, Augustin L. J., assignor.)
- Withers, Alfred W. (See Kramer, James H., assignor.)
- Withers, Francis P., assignor to Associated Engineers Company, Chicago, Ill. Safety device. No. 1,141,674; June 1; Gaz. vol. 215; p. 209.
- Witherspoon, Thomas A., et al. (See Beatty, Wallace A., assignor.)
- Withrow, Samuel P., Cincinnati, Ohio. Baby-chair and perambulator. No. 1,155,855; Oct. 5; Gaz. vol. 219; p. 186.
- Withycombe, Robert M., Sydney, New South Wales, Australia. Antiseptic tooth-brush receptacle. No. 1,138,523; May 4; Gaz. vol. 214; p. 280.
- Withycombe, Robert M., Sydney, New South Wales, Australia. Attachable outer sole for boots and shoes. No. 1,155,982; Oct. 5; Gaz. vol. 219; p. 227.
- Witkop, Theodore L., Buffalo, N. Y. Shock-absorber. No. 1,145,732; July 6; Gaz. vol. 216; p. 266.
- Witkowski, Louis C., Collingswood, N. J. Disinfectant-pencil carrier. No. 1,138,524; May 4; Gaz. vol. 214; p. 280.
- Witmer, Aaron G. (See Wilson, Thomas N., assignor.)
- Witry, Louis W. (See Parkhurst and Witry.)
- Witt, George E., San Francisco, Cal. Oil-burner. No. 1,162,120; Nov. 30; Gaz. vol. 220; p. 1485.
- Witt, Harry C. (See Whittam and Witt.)
- Witt, Samuel E., assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,144,745; June 29; Gaz. vol. 215; p. 1406.
- Witte, Frank, Cincinnati, Ohio. Basket-carrier. No. 1,123,453; Jan. 5; Gaz. vol. 210; p. 88.
- Witte, Friedrich W., assignor to Deutsche Kugellagerfabrik G. m. b. H., Leipzig-Plagwitz, Germany. Shaft-support. No. 1,136,637; Apr. 20; Gaz. vol. 213; p. 987.
- Witte, Friedrich W., assignor to Deutsche Kugellagerfabrik Gesellschaft mit beschränkter Haftung, Leipzig-Plagwitz, Germany. Ball-bearing. No. 1,161,570; Nov. 23; Gaz. vol. 220; p. 1246.
- Witte, Gustav W., Chicago, Ill., assignor to International Harvester Company of New Jersey. Cord-knotter for grain-binders. No. 1,155,860; Oct. 5; Gaz. vol. 219; p. 187.
- Wittmann, Charles R., New York, N. Y. Stabilizing-vane. No. 1,160,354; Nov. 16; Gaz. vol. 220; p. 768.
- Wittmann, Jacob F., Lakewood, N. J., and R. W. Wittmann, Brooklyn, assignors to Amaranth Machinery and Supply Works, Inc., New York, N. Y. Apparatus for impregnating liquids with gases. No. 1,128,264; Feb. 9; Gaz. vol. 211; p. 600.
- Wittmann, Jacob F., Lakewood, N. J., and R. W. Wittmann, Brooklyn, assignors to Amaranth Machinery and Supply Works, Inc., New York, N. Y. Apparatus employed for compressing fermentation-gases. No. 1,128,265; Feb. 9; Gaz. vol. 211; p. 601.
- Wittmann, Jacob F. and R. W., assignors to Amaranth Machinery and Supply Works, Inc., New York, N. Y. Apparatus for charging liquids with gas. No. 1,155,983; Oct. 5; Gaz. vol. 219; p. 227.
- Wittmann, Rudolph W. (See Wittmann, Jacob F. and R. W.)
- Wittenberg, Paul J., assignor of one-third to C. E. Downing and one-third to J. Aaron, Chicago, Ill. Junction-box. No. 1,144,517; June 29; Gaz. vol. 215; p. 1327.
- Witter, Archie C., assignor of one-fourth to C. T. Hicks and one-fourth to H. Hicks, Tonawanda, N. Y. Combination-tool. No. 1,153,092; Oct. 26; Gaz. vol. 219; p. 1086.
- Witter, Osborne R., Swampscott, Mass. Rubber heel and sole. No. 1,124,988; Jan. 12; Gaz. vol. 210; p. 672.
- Wittich, William F., Erie, Pa. Roller-bearing. No. 1,141,743; June 1; Gaz. vol. 215; p. 232.
- Wittig, Alfred E. (See Menrad and Wittig.)
- Wittkowski, Otto, Düsseldorf, Germany. Automatic stabilizing apparatus for flying machines. No. 1,132,503; Mar. 16; Gaz. vol. 212; p. 1007.
- Wittliff, Theodore H. (See Parker and Wittliff.)
- Wittmann, Joseph H., New York, N. Y. Envelop. No. 1,164,606; Dec. 14; Gaz. vol. 221; p. 698.
- Witts, Francis J., Manor Park, England. Guard for eyeglasses. No. 1,153,000; Sept. 7; Gaz. vol. 218; p. 228.
- Wittstein, Herman L., Springfield, Mass. Game apparatus. No. 1,145,955; July 13; Gaz. vol. 216; p. 362.
- Wittwer, Alfred R., Sabetha, Kans. Electric switch. No. 1,165,479; Dec. 28; Gaz. vol. 221; p. 1083.
- Witty, George, assignor of one-half to S. S. Spruks, Scranton, Pa. Signaling system. No. 1,128,210; Feb. 9; Gaz. vol. 211; p. 582.

- Witz, Robert K., Chicago, Ill. Electric binding-post. No. 1,164,440; Dec. 14; Gaz. vol. 221; p. 643.
- Witzsche, Frank P. (See Gray and Witzsche.)
- Wixom, Joseph F., Hammondport, N. Y. Rake. No. 1,131,887; Mar. 16; Gaz. vol. 212; p. 781.
- Wixon, Howard H., assignor to Stromberg Motor Devices Company, Chicago, Ill. Distributor for ignition-dynamos. No. 1,123,971; Jan. 5; Gaz. vol. 210; p. 262.
- Wixson, Lewis S., Rochester, N. Y. Scaffold-bracket. No. 1,130,652; Mar. 2; Gaz. vol. 212; p. 283.
- Wizard Electric Lamp Company. (See Claussen and McKay, assignors.)
- Wizard Tire Indicator & Fire Extinguisher Co. (See Carroll and Andrews, assignors.)
- Wizsolyi, George, Cleveland, Ohio. Combined shade-roller and curtain-hanger. No. 1,154,902; Sept. 28; Gaz. vol. 218; p. 987.
- Wlazanko, Andrej, Rossiter, Pa. Rail-joint. No. 1,129,264; Feb. 23; Gaz. vol. 211; p. 1034.
- Wm. A. French Furniture Company. (See French, William A., assignor.)
- Wm. B. Scaife & Sons Company. (See Davidson, John M., assignor.)
- Wm. B. Scaife & Sons Company. (See Greth and Newman, assignors.)
- Wm. Cramp & Sons Ship & Engine Building Company, The. (See Metten, John F., assignor.)
- Wm. H. Horn & Brother. (See Horn, William H., Jr., assignor.)
- Wnenk, Wojciech, Houston, Pa. Amusement device. No. 1,163,299; Dec. 7; Gaz. vol. 221; p. 197.
- Wobbe, William M., and J. E. Yost, assignors to W. Hope, Springfield, Ohio. Gearing for washing-machines. No. 1,161,178; Nov. 23; Gaz. vol. 220; p. 1107.
- Woburn Machine Company. (See O'Brien, Daniel P., assignor.)
- Wochner, Henry. (See Lynch and Wochner.)
- Wodiska, Julius, New York, N. Y. Chain shot. No. 1,165,053; Dec. 21; Gaz. vol. 221; p. 896.
- Woehrl, Henriette B., Newark, N. J., assignor to The Singer Manufacturing Company. Piping attachment for sewing-machines. No. 1,157,606; Oct. 19; Gaz. vol. 219; p. 850.
- Woelfel, Ernest H., Point Pleasant, W. Va. Hose-coupling. No. 1,137,686; Apr. 27; Gaz. vol. 213; p. 1395.
- Woelfer, Herman, West Duluth, Minn. Saw-guide. No. 1,157,607; Oct. 19; Gaz. vol. 219; p. 850.
- Woelfen, Charles. (See Epling and Woelfen.)
- Woelz, Leonard C., Los Angeles, Cal. Valve-stem shell. No. 1,159,310; Nov. 2; Gaz. vol. 220; p. 314.
- Woerner, Charles J., Hammond, and A. M. Hunt, Gibson, Ind. Automatic oil-cup. No. 1,157,354; Oct. 19; Gaz. vol. 219; p. 764.
- Woerner, Eugen, assignor to Firm of R. Bosch, Stuttgart, Germany. Adjustable cam-operating mechanism. No. 1,147,910; July 27; Gaz. vol. 216; p. 1094.
- Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Draft-gear attachment. No. 1,136,079; Apr. 20; Gaz. vol. 213; p. 788.
- Wofe, John E., and T. Browning, Gassaway, W. Va. Artificial foot. No. 1,151,144; Aug. 24; Gaz. vol. 217; p. 1161.
- Wogan, Michael, Philadelphia, Pa. Combined curtain ring and clamp. No. 1,130,362; Mar. 2; Gaz. vol. 212; p. 180.
- Wohlberg, Johan A., Chicago, Ill. Reversing-valve. No. 1,153,280; Sept. 14; Gaz. vol. 218; p. 361.
- Wohlicke, Fred J., and J. H. McLellan, Nederland, Colo. Slate. No. 1,136,575; Apr. 20; Gaz. vol. 213; p. 966.
- Wohlenberg, Walter J., Norman, Okla. Construction for rotary energy-transformers. No. 1,162,839; Dec. 7; Gaz. vol. 221; p. 38.
- Wöhler, Lothar, Darmstadt, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Charge for detonator-casings. No. 1,128,394; Feb. 16; Gaz. vol. 211; p. 694.
- Wohlens, Henry L., Oak Harbor, Ohio. Vehicle lighting system. No. 1,157,748; Oct. 26; Gaz. vol. 219; p. 966.
- Wohlrab, Sylvan W., Maple Falls, Wash. Welding metals. No. 1,161,366; Nov. 23; Gaz. vol. 220; p. 1175.
- Wohltmann, George J., New York, N. Y. Rear-end signal for vehicles. No. 1,123,454; Jan. 5; Gaz. vol. 210; p. 88.
- Wohlwend, Harry H., Youngstown, Ohio. Pocket companion. No. 1,128,211; Feb. 9; Gaz. vol. 211; p. 582.
- Wojdickow, Louis, assignor to New York Stamping Company, Brooklyn, N. Y. Valve for percolators and other apparatus. No. 1,145,641; July 6; Gaz. vol. 216; p. 233.
- Wojtkowski, Frank, and D. Radziszewski, Chrome, N. J. Padlock. No. 1,130,787; Mar. 9; Gaz. vol. 212; p. 364.
- Wokes, Charles, Toronto, Ontario, Canada. Chemical fire-extinguishing apparatus. No. 1,141,293; June 1; Gaz. vol. 215; p. 73.
- Wolcott, Henry, Providence, R. I. Interchangeable links for chains and bracelets. No. 1,159,311; Nov. 2; Gaz. vol. 220; p. 314.
- Wolcott, Joseph H. (See Samuel and Wolcott.)
- Wolcott, William H., Heissom, Wash. Motor-boat. No. 1,154,471; Sept. 21; Gaz. vol. 218; p. 812.
- Woldenberg & Schaar. (See Pestel, William, assignor.)
- Woldert, Alex. (See Barton, Charles H., assignor.)
- Woldon, Frank, Brooklyn, assignor to Cushman & Denison Manufacturing Co., New York, N. Y. Hand stamp-machine. No. 1,148,645; Aug. 3; Gaz. vol. 217; p. 58.
- Wolever, Franklin H., assignor to Ideal Roller Company, Chicago, Ill. Manufacturing rollers. No. 1,161,756; Nov. 23; Gaz. vol. 220; p. 1308.
- Wolf, Aaron, New York, N. Y. Corner-post fastening. No. 1,161,432; Nov. 23; Gaz. vol. 220; p. 1199.
- Wolf, Aaron, and A. Governale, New York, assignors to Metallic Flexible Hose Company, Brooklyn, N. Y. Corner-post fastener. No. 1,143,796; June 22; Gaz. vol. 215; p. 1047.
- Wolf, Adam M., Plymouth, Wis. Indicating and registering mechanism for tanks. No. 1,136,576; Apr. 20; Gaz. vol. 213; p. 967.
- Wolf, August F., Elma, Iowa. Barn-framing machine. No. 1,133,902; Mar. 30; Gaz. vol. 212; p. 1595.
- Wolf, Carl, Schweinsburg-on-the-Pleisse, Germany. Water-supply system. No. 1,155,024; Sept. 28; Gaz. vol. 218; p. 1028.
- Wolf, Carl, Schweinsburg-on-the-Pleisse, Germany. Furnace for heating water and generating steam. No. 1,164,151; Dec. 14; Gaz. vol. 221; p. 541.
- Wolf, Elmer E. (See Torlina and Wolf.)
- Wolf, Eugene P., Chicago, Ill. Safety delivery-receptacle. No. 1,155,778; Oct. 5; Gaz. vol. 219; p. 157.
- Wolf, Franz. (See Thelen and Wolf.)
- Wolf, Fred W. (See Southworth and Wolf.)
- Wolf, Fred W., assignor to The Mechanical Refrigerator Company, Chicago, Ill. Refrigerating apparatus. No. 1,126,605; Jan. 26; Gaz. vol. 210; p. 1321.
- Wolf, Fred W., assignor to F. W. Macfarlane, Honolulu, Hawaii. Pineapple coring and slicing machine. No. 1,142,216; June 8; Gaz. vol. 215; p. 434.
- Wolf, Fred W., assignor to F. W. Macfarlane, Honolulu, Hawaii. Pineapple-corer in a pineapple coring and slicing machine. No. 1,142,217; June 8; Gaz. vol. 215; p. 434.
- Wolf, George, West New York, N. J., assignor to Niagara Box Factory, Inc., New York, N. Y. Assortment-box for lead-pencils and similar articles. No. 1,135,748; Apr. 13; Gaz. vol. 213; p. 633.
- Wolf, Hans. (See Bosch, Mittasch, Wolf, and Stern.)
- Wolf, Henry A., Tripp, S. D. Expandible post-hole auger or digger. No. 1,149,707; Aug. 10; Gaz. vol. 217; p. 539.
- Wolf, Henry A., Tripp, S. D. Post-hole digger. No. 1,160,483; Nov. 16; Gaz. vol. 220; p. 814.
- Wolf, Johann, Burg-on-the-Wupper, Germany. Endless conveying means for paper-machines. No. 1,131,766; Mar. 16; Gaz. vol. 212; p. 737.
- Wolf, John H., Mount Horeb, Wis. Removable horseshoe-calk. No. 1,145,956; July 13; Gaz. vol. 216; p. 362.
- Wolf, John J., Philadelphia, Pa. Metal cask. No. 1,164,152; Dec. 14; Gaz. vol. 221; p. 541.
- Wolf, John S., Yonkers, N. Y. Manhole and cover for the same. No. 1,163,189; Dec. 7; Gaz. vol. 221; p. 160.
- Wolf, Karl, assignor to Globe Anti-Friction Roller Bearing Company, Brooklyn, N. Y. Roller-bearing. No. 1,158,880; Nov. 2; Gaz. vol. 220; p. 165.
- Wolf, Meyer, New York, N. Y. Cigarette-container. No. 1,154,589; Sept. 21; Gaz. vol. 218; p. 852.
- Wolf, Miles V., Ashland, Ohio. Vacuum blackboard-eraser. No. 1,147,064; July 20; Gaz. vol. 216; p. 772.
- Wolf, Rudolph, Bridgeport, Conn. Machine for forming loaves from a mass of dough. No. 1,126,606; Jan. 26; Gaz. vol. 210; p. 1322.
- Wolfe, Abraham T., Coffeyville, Kans. Pumping-jack. No. 1,135,419; Apr. 13; Gaz. vol. 213; p. 516.
- Wolfe, Albert H., Kila, Mont. Wrench. No. 1,129,771; Feb. 23; Gaz. vol. 211; p. 1208.
- Wolfe, Arthur H., Scranton, Pa., and D. A. Wolfe, Waltham, Mass. Casing for brushes and analogous toilet articles. No. 1,166,296; Dec. 28; Gaz. vol. 221; p. 1374.
- Wolfe, Arthur H., Scranton, Pa., and D. A. Wolfe, Waltham, Mass. Casing for brushes and analogous toilet articles. No. 1,166,297; Dec. 28; Gaz. vol. 221; p. 1374.
- Wolfe, Arthur P., Vineland, N. J. Cooling device for the water circulation of automobile-engines. No. 1,141,511; June 1; Gaz. vol. 215; p. 151.
- Wolfe, Arthur P., Vineland, N. J. Radiator-tube for automobiles. No. 1,146,117; July 13; Gaz. vol. 216; p. 419.
- Wolfe, Bert W. (See Wolfe, Clinton L. and B. W.)
- Wolfe, Bert W. and C. L., Brooklyn, N. Y. Combined long bolt and knob-lock. No. 1,159,635; Nov. 9; Gaz. vol. 220; p. 461.
- Wolfe, Charles H., and J. Heimlich, Port Clinton, Ohio. Non-explosive tank. No. 1,150,089; Aug. 17; Gaz. vol. 217; p. 737.
- Wolfe, Clinton L. (See Wolfe, Bert W. and C. L.)
- Wolfe, Clinton L., Brooklyn, N. Y. Rubber-tread flexible armor for pneumatic tires. No. 1,155,025; Sept. 28; Gaz. vol. 218; p. 1028.
- Wolfe, Clinton L. and B. W., Brooklyn, N. Y. Lock. No. 1,152,776; Sept. 7; Gaz. vol. 218; p. 145.
- Wolfe, Clinton S. (See Reid, Edwin G., assignor.)
- Wolfe, Durward A. (See Wolfe, Arthur H. and D. A.)

Alphabetical list of patentees—Continued.

- Wolfe, Grover C. and H. K., assignors to Rotary Rod Weeder & Manufacturing Company, Cheney, Wash. Weeder and cultivator. (Reissue.) No. 13,899; Apr. 6; Gaz. vol. 213; p. 325.
- Wolfe, Gurdon C., Rochester, N. Y. Heating attachment for motor-vehicles. No. 1,165,643; Dec. 28; Gaz. vol. 221; p. 1142.
- Wolfe, Harry. (See Warburton and Wolfe.)
- Wolfe, Henry K. (See Wolfe, Grover C. and H. K.) (Reissue.)
- Wolfe, Ira B., assignor of one-fourth to J. A. Bennett, one-eighth to W. P. Daniels, and one-eighth to W. A. Daniels, Dermott, Ark. Window-shade fixture. No. 1,138,166; May 4; Gaz. vol. 214; p. 157.
- Wolfe, Jacob M., Lathrop, Cal. Rodent-trap. No. 1,153,988; Sept. 21; Gaz. vol. 218; p. 646.
- Wolfe, John G., New York, N. Y. Umbrella. No. 1,136,386; Apr. 20; Gaz. vol. 213; p. 899.
- Wolfe, John L., Willshire, Ohio. Fodder-bundler. No. 1,144,275; June 22; Gaz. vol. 215; p. 1217.
- Wolfe, John W., et al. (See Adkins, Oscar E., assignor.)
- Wolfe, Joseph L., Bridgeport, Conn. Test-indicator. No. 1,134,713; Apr. 6; Gaz. vol. 213; p. 230.
- Wolfe, Ota A., Van Wert, assignor of one-fourth to F. J. Lordier, Greenville, Ohio. Safety attachment for railway coaches. No. 1,139,619; May 18; Gaz. vol. 214; p. 741.
- Wolfe, Robert U., Omaha, Nebr. Vaporizer and carbureter for gas-engines. No. 1,127,709; Feb. 9; Gaz. vol. 211; p. 405.
- Wolfe, William, St. Louis, Mo. Combined lift-cutting, assembling, and heel-building machine. No. 1,163,300; Dec. 7; Gaz. vol. 221; p. 198.
- Wolfe, William, St. Louis, Mo., assignor to American Heel Machine Company, Cincinnati, Ohio. Paste-applying device. No. 1,124,374; Jan. 12; Gaz. vol. 210; p. 452.
- Wolfe, William, and D. Parks, St. Louis, Mo. Building heel-blanks. No. 1,157,355; Oct. 19; Gaz. vol. 219; p. 765.
- Wolfe, William C., Lilly, Pa. Sound-reproducing machine. No. 1,131,454; Mar. 9; Gaz. vol. 212; p. 593.
- Wolfe, William W., East Highland, Cal. Door-spring. No. 1,157,274; Oct. 19; Gaz. vol. 219; p. 738.
- Wolfer, Florence B., and H. Sampson, New York, N. Y. Sad-iron stand. No. 1,160,804; Nov. 16; Gaz. vol. 220; p. 930.
- Wolfer, Maurice. (See Nienstadt, August E., assignor.)
- Wolpert, Carlos H., assignor to Toledo Folding High Chair Company, Toledo, Ohio. Child's seat. No. 1,140,730; May 25; Gaz. vol. 214; p. 1164.
- Wolff, Albert, Berlin, Germany. Preparing a solution of peroxid of hydrogen with a high content of ozone and oxygen. No. 1,152,066; Aug. 31; Gaz. vol. 217; p. 1524.
- Wolff, Charles H. (See Weder and Wolff.)
- Wolff, Ernst, Pforzheim, Germany. Explosion-engine. No. 1,142,073; June 8; Gaz. vol. 215; p. 384.
- Wolff, Fredrick J., Kansas City, Mo. Dough-proofing machine. No. 1,147,352; July 20; Gaz. vol. 216; p. 870.
- Wolff, Fredrick J., Belleville, N. J. Dough-loaf support or receptacle. No. 1,162,427; Nov. 30; Gaz. vol. 220; p. 1589.
- Wolff, Hugo, Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of coloring-matters of the anthraquinone series. No. 1,133,081; Mar. 23; Gaz. vol. 212; p. 1267.
- Wolff, John, East Cleveland, Ohio, assignor to The Babcock & Wilcox Company. Steam-boiler furnace. No. 1,129,534; Feb. 23; Gaz. vol. 211; p. 1129.
- Wolff, Willy, Nuremberg, Germany. Steering-wheel for motor-cars and flying-machines. No. 1,131,888; Mar. 16; Gaz. vol. 212; p. 781.
- Wolford, Joseph H., Clifton Station, Va. Pan-lifter. No. 1,148,646; Aug. 3; Gaz. vol. 217; p. 59.
- Wolfrum, Otto, administrator. (See Winter and Elchberg.)
- Wolfsohn, Adolf, assignor to Motion Picture Appliance Corporation, New York, N. Y. Device for motion-picture printing. No. 1,136,194; Apr. 20; Gaz. vol. 213; p. 829.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Anticreeper. No. 1,139,391; May 11; Gaz. vol. 214; p. 624.
- Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Track-fastening for rail-joints. No. 1,126,150; Jan. 26; Gaz. vol. 210; p. 1155.
- Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Making rail-joint bars. No. 1,128,645; Feb. 16; Gaz. vol. 211; p. 781.
- Wolhaupter, Benjamin, New Rochelle, and E. F. Schermerhorn, Brooklyn, assignors to The Rail Joint Company, New York, N. Y. Reinforced rail-joint bar. No. 1,131,889; Mar. 16; Gaz. vol. 212; p. 782.
- Wolhaupter, Warren F., assignor, by mesne assignments, to S. E. Hibben, Chicago, Ill. Brush. No. 1,161,179; Nov. 23; Gaz. vol. 220; p. 1107.
- Wolke, John L., Jacksonville, Ill. Picture-hanger. No. 1,133,209; Mar. 23; Gaz. vol. 212; p. 1312.
- Wolkenbauer, Frederick H., Bensonville, Ill. Furnace. No. 1,160,233; Nov. 16; Gaz. vol. 220; p. 727.
- Wollenhaupt, Justus J. (See Doyle and Wollenhaupt.)
- Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 1,143,926; June 22; Gaz. vol. 215; p. 1091.
- Wollensak Optical Company. (See Wollensak, Andrew, assignor.)
- Wollner, Carl A., Firth, assignor to Maschinenfabrik Augsburg-Nürnberg, A. G., Nuremberg, Germany. Automatic vending-machine. No. 1,150,319; Aug. 17; Gaz. vol. 217; p. 820.
- Wolnitzek, Oscar T. (See Master and Wolnitzek.)
- Woloff, Alexander A., Los Angeles, Cal. Rotary valve and oiling system therefor for explosive-engines. No. 1,166,397; Dec. 28; Gaz. vol. 221; p. 1410.
- Woloshin, Aaron, New York, N. Y. Interlocking floor and panel. No. 1,149,708; Aug. 10; Gaz. vol. 217; p. 540.
- Wolsely Motors. (See Remington, Alfred A., assignor.)
- Wolski, Jan, Chicago, Ill. Automatic station-indicator for cars. No. 1,155,694; Oct. 5; Gaz. vol. 219; p. 129.
- Wolski, John, Chicago, Ill. Elevator safety device. No. 1,161,571; Nov. 23; Gaz. vol. 220; p. 1247.
- Wolstenholme, Charles, Blackpool, assignor of two-thirds to J. Scholes and R. J. Barton, Lancaster, England. Platen printing-press. No. 1,130,232; Mar. 2; Gaz. vol. 212; p. 135.
- Wolter, Josef, assignor to H. Levy, Rorschach, Switzerland. Apparatus for cutting binding-threads. No. 1,133,777; Mar. 30; Gaz. vol. 212; p. 1551.
- Woltmann, Ernst, New York, N. Y., assignor to Automatic Train Stop Company. Electric train-control system. No. 1,154,956; Sept. 28; Gaz. vol. 218; p. 1005.
- Woltmann, Ernst, New York, N. Y., assignor to Automatic Train Stop Company. Railway-signal. No. 1,163,190; Dec. 7; Gaz. vol. 221; p. 160.
- Woltz, Albert M., Greensboro, N. C. Drawer or slide equalizer. No. 1,124,570; Jan. 12; Gaz. vol. 210; p. 523.
- Wolverine Motor Works. (See Snyder and Pease, assignors.)
- Wolz, William, and J. V. Paxson, Three Oaks, Mich. Eggcrate. No. 1,141,167; June 1; Gaz. vol. 215; p. 27.
- Womack, Albert L., La Grange, Mo. Trap-nest. No. 1,146,224; July 13; Gaz. vol. 216; p. 457.
- Womack, Albert L., La Grange, Mo. Chart-holder. No. 1,161,367; Nov. 23; Gaz. vol. 220; p. 1175.
- Womack, Edward W., Welch, W. Va. Cue-tip. No. 1,134,796; Apr. 6; Gaz. vol. 213; p. 260.
- Womack, Samuel W., Quanah, Tex. Cooling and disinfecting device. No. 1,129,772; Feb. 23; Gaz. vol. 211; p. 1208.
- Woman's World Magazine Company. (See Moore, Frank V., assignor.)
- Womble, Jesse W., Winnsboro, La. Rail-joint. No. 1,137,824; May 4; Gaz. vol. 214; p. 35.
- Wons, Anthony R., Chicago, Ill. Thread-rack. No. 1,125,622; Jan. 19; Gaz. vol. 210; p. 933.
- Wood, Alexander H., Petros, Tenn. Buffer for railways. No. 1,156,649; Oct. 12; Gaz. vol. 219; p. 487.
- Wood, Alfred, Uxbridge, England. Screening device for grinding-mills. No. 1,129,773; Feb. 23; Gaz. vol. 211; p. 1209.
- Wood, Alfred R., Mamaroneck, N. Y., assignor to The Singer Manufacturing Company. Stop-motion mechanism. No. 1,151,534; Aug. 24; Gaz. vol. 217; p. 1294.
- Wood, August, Covington, Tenn. Cultivator attachment. No. 1,132,504; Mar. 16; Gaz. vol. 212; p. 1007.
- Wood Apparatus Company. (See Wood, Frank J., assignor.)
- Wood, Arthur P., Hale, England. Apparatus for electrically controlling planing-machines and the like reciprocating tools. No. 1,147,584; July 20; Gaz. vol. 216; p. 953.
- Wood, Arthur P., Hale, England. Apparatus for electrically operating and controlling planing-machines and like reciprocating tools. No. 1,147,666; July 20; Gaz. vol. 216; p. 982.
- Wood, Arthur P., Hale, and R. S. McLeod, Didsbury, near Manchester, England. Apparatus for electrically operating planing-machines and the like reciprocating tools. No. 1,147,585; July 20; Gaz. vol. 216; p. 953.
- Wood, Charles, Jacksonville, Ill. Steam-cooker. No. 1,146,225; July 13; Gaz. vol. 216; p. 457.
- Wood, Charles O., Chambersburg, Pa. Sand-strip. No. 1,126,607; Jan. 26; Gaz. vol. 210; p. 1322.
- Wood, Charles O., assignor to T. B. Wood's Sons Company, Chambersburg, Pa. Shaft-hanger. No. 1,130,233; Mar. 2; Gaz. vol. 212; p. 136.
- Wood, Charles R., Spokane, Wash., assignor of one-half to C. W. Miller, Portland, Oreg., and J. D. Alexander, Spokane, Wash. Variable-speed-transmission mechanism. No. 1,158,357; Oct. 26; Gaz. vol. 219; p. 1177.
- Wood, Edward C., Somerville, assignor to J. W. Davies, Reading, Mass. Force-feed lubricator and governor for rotatable spindles. No. 1,134,714; Apr. 6; Gaz. vol. 213; p. 231.
- Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Waterville, Me. System of railway-signals. No. 1,150,798; Aug. 17; Gaz. vol. 217; p. 985.
- Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Waterville, Me. Indicating a ship's approach and means therefor. No. 1,150,799; Aug. 17; Gaz. vol. 217; p. 985.

Alphabetical list of patentees—Continued.

- Wood, Ellis G., assignor to Gifford-Wood Company, Hudson, N. Y. Winter and summer ice-run. No. 1,153,991; Sept. 21; Gaz. vol. 218; p. 647.
- Wood, Ellis G., assignor to Gifford-Wood Company, Hudson, N. Y. Snow-scraper. No. 1,161,275; Nov. 23; Gaz. vol. 220; p. 1142.
- Wood, Elmer E., New Orleans, La. Photographic-printing machine. No. 1,142,653; June 8; Gaz. vol. 215; p. 586.
- Wood, Everett J. (See Downey and Wood.)
- Wood, Flora A., administratrix. (See Wood, James E.)
- Wood, Frank J., assignor to Wood Apparatus Company, New York, N. Y. Recovering salt from brine. No. 1,152,777; Sept. 7; Gaz. vol. 218; p. 145.
- Wood, Frank W., Brooklyn, N. Y., and H. Laning, Petersburg, Ill.; said Wood assignor, by mesne assignments, to Charles Cory & Son, Inc., New York, N. Y. Ship's telegraph. No. 1,163,191; Dec. 7; Gaz. vol. 221; p. 161.
- Wood, Frederick P., assignor to Detroit Can Company, Detroit, Mich. Adhesive to be employed in the manufacture of paper-walled vessels. No. 1,137,043; Apr. 27; Gaz. vol. 213; p. 1169.
- Wood, Frederick P., Detroit, Mich., assignor to American Can Company, New York, N. Y. Dispensing-package. No. 1,158,093; Oct. 26; Gaz. vol. 219; p. 1086.
- Wood, Frederick W., Kansas City, Mo. Musical instrument. No. 1,152,254; Aug. 31; Gaz. vol. 217; p. 1588.
- Wood, Frederick W., Kansas City, Mo. Piano-player. No. 1,152,255; Aug. 31; Gaz. vol. 217; p. 1588.
- Wood, Frederick W., Kansas City, Mo. Web-changing device. No. 1,154,682; Sept. 28; Gaz. vol. 218; p. 914.
- Wood, Garfield A., assignor of one-half to G. Waldref, St. Paul, Minn. Hydraulic dump. No. 1,165,825; Dec. 28; Gaz. vol. 221; p. 1204.
- Wood, George A., Southington, Conn. Making hand-tools. No. 1,139,392; May 11; Gaz. vol. 214; p. 624.
- Wood, George A., Southington, Conn. Chuck. No. 1,159,146; Nov. 2; Gaz. vol. 220; p. 254.
- Wood, George B., Carthage, Mo. Adjustable shade-hanger. No. 1,164,693; Dec. 21; Gaz. vol. 221; p. 771.
- Wood, George P., Peekskill, N. Y. Box-fastener. No. 1,136,500; Apr. 20; Gaz. vol. 213; p. 940.
- Wood, George P., Peekskill, N. Y. Beehive. No. 1,146,044; July 13; Gaz. vol. 216; p. 395.
- Wood, George W., Syracuse, N. Y. Guard. No. 1,150,476; Aug. 17; Gaz. vol. 217; p. 874.
- Wood, Halbert M., assignor of one-fourth to S. H. O'Connor, one-fourth to J. A. Williams, and one-fourth to E. T. Lowe, Sr., Nashville, Tenn. Gate. No. 1,129,938; Mar. 2; Gaz. vol. 212; p. 36.
- Wood, Harvey D., Fayetteville, Ark. Stove. No. 1,135,478; Apr. 13; Gaz. vol. 213; p. 537.
- Wood, Harvey M., Los Angeles, Cal. Saw-clamp. No. 1,137,301; Apr. 27; Gaz. vol. 213; p. 1263.
- Wood, Henry A. W., New York, N. Y. Tire-wrapper. No. 1,165,644; Dec. 28; Gaz. vol. 221; p. 1143.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Relief and intaglio printing machine. No. 1,123,455; Jan. 5; Gaz. vol. 210; p. 88.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Intaglio-printing plate. No. 1,125,244; Jan. 19; Gaz. vol. 210; p. 799.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Sheet-manipulating mechanism. No. 1,133,352; Mar. 30; Gaz. vol. 212; p. 1398.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Cleaning device for intaglio plates. No. 1,138,342; May 4; Gaz. vol. 214; p. 219.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Intaglio-printing. No. 1,140,860; May 25; Gaz. vol. 214; p. 1212.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Reproducing intaglio-printing surfaces. No. 1,151,317; Aug. 24; Gaz. vol. 217; p. 1220.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Reproducing intaglio-printing surfaces. No. 1,151,318; Aug. 24; Gaz. vol. 217; p. 1220.
- Wood, Henry A. W., assignor to Wood & Nathan Company, New York, N. Y. Printed and slip sheet separating apparatus. No. 1,162,895; Dec. 7; Gaz. vol. 221; p. 56.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Folding and stapling device. No. 1,124,375; Jan. 12; Gaz. vol. 210; p. 453.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Making stereotype-matrices. No. 1,127,340; Feb. 2; Gaz. vol. 211; p. 235.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for finishing and cooling stereotype-plates. No. 1,134,798; Apr. 6; Gaz. vol. 213; p. 261.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for cooling stereotype-plates. No. 1,134,799; Apr. 6; Gaz. vol. 213; p. 262.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Method of sizing curved stereotype printing-plates and apparatus therefor. No. 1,134,800; Apr. 6; Gaz. vol. 213; p. 262.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Stereotype printing-plate. No. 1,150,474; Aug. 17; Gaz. vol. 217; p. 874.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Gravity cooling device for stereotype-plates. No. 1,150,475; Aug. 17; Gaz. vol. 217; p. 874.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Matrix-roaster. No. 1,162,672; Nov. 30; Gaz. vol. 220; p. 1669.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for making stereotype printing-plates. No. 1,164,607; Dec. 14; Gaz. vol. 221; p. 698.
- Wood, Henry A. W., assignor to Automatic Furnace Company, New York, N. Y. Rotary casting-machine. No. 1,129,154; Feb. 23; Gaz. vol. 211; p. 996.
- Wood, Henry C. (See Bromet, Thorman, and Wood.)
- Wood, Herbert D., Phoenix, N. Y. Toilet-paper holder. No. 1,133,600; Mar. 30; Gaz. vol. 212; p. 1487.
- Wood, Herbert F., and J. Gullage, Somerville, Mass. Automatic slack-adjuster for brakes. No. 1,144,453; June 29; Gaz. vol. 215; p. 1306.
- Wood, James E., deceased; F. A. Wood, administratrix, assignor of forty-six and one-third one-hundredths to C. A. Love, Aurora, Ill. Corn-harvester. No. 1,131,586; Mar. 9; Gaz. vol. 212; p. 638.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Dynamo-electric machine. No. 1,132,992; Mar. 23; Gaz. vol. 212; p. 1235.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Cooling-liquid economizer. No. 1,156,511; Oct. 12; Gaz. vol. 219; p. 439.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Electromagnetic switch. No. 1,159,818; Nov. 9; Gaz. vol. 220; p. 528.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Rotary refrigerating-machine. No. 1,164,245; Dec. 14; Gaz. vol. 221; p. 572.
- Wood, James N., Blackshear, Ga., assignor to The Neely Compress and Cotton Company, Richmond, Va. Baling-press. No. 1,139,092; May 11; Gaz. vol. 214; p. 521.
- Wood, John C., Monero, N. Mex. Amalgamator. No. 1,133,210; Mar. 23; Gaz. vol. 212; p. 1312.
- Wood, John C. B., Huntington, W. Va. Strain-applying apparatus. No. 1,127,341; Feb. 2; Gaz. vol. 211; p. 235.
- Wood, John G., Edinburgh, Scotland. Preparation of photomechanical printing-surfaces. No. 1,155,186; Sept. 28; Gaz. vol. 218; p. 1087.
- Wood, John R., Herkimer, N. Y. Calk attachment for horseshoes. No. 1,153,664; Sept. 14; Gaz. vol. 218; p. 498.
- Wood, John T., assignor to Franklin Process Company, Providence, R. I. Machine for cutting strips of material into predetermined lengths. No. 1,145,450; July 6; Gaz. vol. 216; p. 166.
- Wood, John T., assignor to Franklin Process Company, Providence, R. I. Dyeing apparatus. No. 1,151,916; Aug. 31; Gaz. vol. 217; p. 1472.
- Wood, John T., assignor to Franklin Process Company, Providence, R. I. Beam for use in dyeing. No. 1,151,917; Aug. 31; Gaz. vol. 217; p. 1473.
- Wood, Louis A., assignor to Minerals Separation American Syndicate (1913) Limited, London, England. Ore concentration. No. 1,155,861; Oct. 5; Gaz. vol. 219; p. 187.
- Wood, Milton M., Jacksonville, Ill. Convertible ladder. No. 1,148,882; Aug. 3; Gaz. vol. 217; p. 141.
- Wood, Milton R., East Orange, N. J. Lithographic process. No. 1,135,749; Apr. 13; Gaz. vol. 213; p. 633.
- Wood, Moses L., New York, N. Y. Expanding bullet. No. 1,134,797; Apr. 6; Gaz. vol. 213; p. 261.
- Wood, Moses L., New York, N. Y. Spool-clip. No. 1,140,226; May 18; Gaz. vol. 214; p. 954.
- Wood & Nathan Company. (See Wood, Henry A. W., assignor.)
- Wood, Nathan J., Louisville, Ill. Extension-step for passenger-cars. No. 1,148,423; July 27; Gaz. vol. 216; p. 1276.
- Wood Newspaper Machinery Corporation. (See Collins, Edward C., assignor.)
- Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
- Wood, Noble W., Brooklyn, N. Y. Air-lift foot-piece. No. 1,150,651; Aug. 17; Gaz. vol. 217; p. 935.
- Wood, Orle L. (See Kelley and Wood.)
- Wood, Ralph A., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Dieing mechanism for box-making machines. No. 1,142,654; June 8; Gaz. vol. 215; p. 586.
- Wood, Ralph A., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Paper box. No. 1,162,840; Dec. 7; Gaz. vol. 221; p. 39.
- Wood, Richard E., South Norfolk, Va. Boat-launching apparatus. No. 1,127,342; Feb. 2; Gaz. vol. 211; p. 236.
- Wood, Robert, Brooklyn, assignor to Nathan Manufacturing Company, New York, N. Y. Ejecting device. No. 1,133,601; Mar. 30; Gaz. vol. 212; p. 1487.

Alphabetical list of patentees—Continued.

- Wood, Robert, Brooklyn, assignor to The Nathan Manufacturing Company, New York, N. Y. Flange-lubricator. No. 1,134,363; Apr. 6; Gaz. vol. 213; p. 102.
- Wood, Robert, Brooklyn, assignor to The Nathan Manufacturing Company, New York, N. Y. Lubricator. No. 1,135,644; Apr. 13; Gaz. vol. 213; p. 597.
- Wood, Robert, assignor to The Nathan Manufacturing Company, New York, N. Y. Low-water alarm for steam-boilers and the like. No. 1,147,835; July 27; Gaz. vol. 216; p. 1067.
- Wood, Robert, assignor to The Nathan Manufacturing Company, New York, N. Y. Lubricator. No. 1,158,614; Nov. 2; Gaz. vol. 220; p. 72.
- Wood, Robert, Brooklyn, assignor to The Nathan Manufacturing Company, New York, N. Y. Lubricating device. No. 1,162,275; Nov. 30; Gaz. vol. 220; p. 1538.
- Wood, Robert, Brooklyn, assignor to The Nathan Manufacturing Company, New York, N. Y. Sight-glass. No. 1,164,694; Dec. 21; Gaz. vol. 221; p. 771.
- Wood, Robert T., Kansas City, Mo. Coffee-pot. No. 1,165,480; Dec. 28; Gaz. vol. 221; p. 1084.
- Wood, Rushmore, Brooklyn, N. Y. Standard of position for aircraft. No. 1,142,218; June 8; Gaz. vol. 215; p. 435.
- Wood, Stuart G., Brooklyn, N. Y. Insulated-wire-stripping device. No. 1,151,319; Aug. 24; Gaz. vol. 217; p. 1220.
- Wood, Theodore S., New York, N. Y. Tile measuring, marking, and sorting machine. No. 1,156,337; Oct. 12; Gaz. vol. 219; p. 375.
- Wood, Thomas E., and W. H. Safford, Jr., Great Falls, Mont. Lathe grinder attachment. No. 1,137,371; Apr. 27; Gaz. vol. 213; p. 1289.
- Wood, Wallace, Jr., New Orleans, La. Dental handpiece. No. 1,160,805; Nov. 16; Gaz. vol. 220; p. 930.
- Wood, Walter. (See Murphy, John M., assignor.)
- Wood, Warren, Paterson, N. J. Rock-drill. No. 1,162,964; Dec. 7; Gaz. vol. 221; p. 80.
- Wood, Wilfred B., London, England. Mechanically-operated grate for furnaces. No. 1,141,226; June 1; Gaz. vol. 215; p. 48.
- Wood, Willett A., Detroit, Mich. Book-making. No. 1,159,459; Nov. 9; Gaz. vol. 220; p. 399.
- Wood, William E. (See Fulford, William A., assignor.)
- Wood, William G. (See Mosher and Wood.)
- Wood, William G., Sacramento, Cal. Resilient support for vehicle-bodies. No. 1,137,176; Apr. 27; Gaz. vol. 213; p. 1216.
- Wood, William G., Sacramento, Cal. Pneumatic shock-absorber. No. 1,161,102; Nov. 23; Gaz. vol. 220; p. 1078.
- Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Heddle for leno-weaving machines. No. 1,132,644; Mar. 23; Gaz. vol. 212; p. 1106.
- Wood, William R. (See Walker, Alfred B. and F. P., assignors.)
- Woodall, Claude, Supply, Okla. Kafir-corn header. No. 1,141,372; June 1; Gaz. vol. 215; p. 102.
- Woodall, George, Davenport, Iowa. Combined poultry-roost and vermin-trap. No. 1,128,928; Feb. 16; Gaz. vol. 211; p. 882.
- Woodall, William E., Nashville, Tenn. Combined brush and comb. No. 1,135,645; Apr. 13; Gaz. vol. 213; p. 597.
- Woodard, Charles B., Springfield, Tenn. Emergency-exit-door fastener. No. 1,136,989; Apr. 27; Gaz. vol. 213; p. 1148.
- Woodard, Charles B., Springfield, Tenn. Device for preventing successful safe-blowing. No. 1,146,226; July 13; Gaz. vol. 216; p. 458.
- Woodard, James W., New York, N. Y. Combination furniture. No. 1,140,554; May 25; Gaz. vol. 214; p. 1106.
- Woodard, Louis A., assignor to The William Tod Company, Youngstown, Ohio. Barometric condenser. No. 1,153,001; Sept. 7; Gaz. vol. 218; p. 228.
- Woodard, William E., Schenectady, N. Y. Throttle-valve mechanism for locomotives. No. 1,140,091; May 18; Gaz. vol. 214; p. 909.
- Woodard, William E., Schenectady, N. Y. Locomotive driving-box. No. 1,141,294; June 1; Gaz. vol. 215; p. 73.
- Woodard, William H., East Palatka, Fla. assignor of one-third to P. B. Baker, Washington, D. C. Folding box. No. 1,132,505; Mar. 16; Gaz. vol. 212; p. 1007.
- Woodbridge, Howard C., Rochester, N. Y. Draft-regulating damper for locomotive smoke-boxes. No. 1,124,377; Jan. 12; Gaz. vol. 210; p. 453.
- Woodbridge, Joseph L. (See Hull and Woodbridge.)
- Woodbridge, Joseph L., Philadelphia, Pa. Automatic switch. No. 1,125,242; Jan. 19; Gaz. vol. 210; p. 798.
- Woodbridge, Joseph L., Philadelphia, Pa. Transmission-gearing. No. 1,125,243; Jan. 19; Gaz. vol. 210; p. 799.
- Woodbridge, Joseph L., Philadelphia, Pa. Means for exciting the commutating poles of a dynamo-electric machine. No. 1,130,686; Mar. 2; Gaz. vol. 212; p. 296.
- Woodbridge, Joseph L., Philadelphia, Pa. Car-axle lighting system. No. 1,130,687; Mar. 2; Gaz. vol. 212; p. 296.
- Woodbridge, Joseph L., Philadelphia, Pa. System of electrical distribution. No. 1,147,696; July 20; Gaz. vol. 216; p. 992.
- Woodbury, Clifford A., Chester, Pa. Explosive. No. 1,149,487; Aug. 10; Gaz. vol. 217; p. 458.
- Woodbury, Clifford A., Chester, Pa., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 1,124,679; Jan. 12; Gaz. vol. 210; p. 563.
- Woodbury, John E., Worcester, Mass. Focusing device for cameras. No. 1,166,032; Dec. 28; Gaz. vol. 221; p. 1276.
- Woodcock, Reginald B. (See Gouldbourn and Woodcock.)
- Wooden, Earle M., assignor of one-half to A. B. Cavanagh, New York, N. Y. Moving-picture machine. No. 1,123,456; Jan. 5; Gaz. vol. 210; p. 89.
- Wooden, Earle M., assignor of one-half to A. B. Cavanagh, New York, N. Y. Reel for moving-picture machines. No. 1,130,126; Mar. 2; Gaz. vol. 212; p. 99.
- Wooden, Earle M., assignor to The Perfectograph Manufacturing Company, New York, N. Y. Safety device for moving-picture machines. No. 1,149,609; Aug. 10; Gaz. vol. 217; p. 504.
- Woodfield, Arthur H. (See Grünig and Woodfield.)
- Woodford, James A., assignor of one-third to D. B. Stephens, Youngstown, Ohio. Cutter-guard for planing machines. No. 1,126,151; Jan. 26; Gaz. vol. 210; p. 1155.
- Woodhead, Daniel. (See Singer and Woodhead.)
- Woodhead, Frank, Glen Riddle, Pa. Pliers. No. 1,155,632; Oct. 5; Gaz. vol. 219; p. 106.
- Woodhead, Thomas P., Leeds, England. Hanger. No. 1,147,774; July 27; Gaz. vol. 216; p. 1045.
- Woodhull, Frederick W., Alhambra, Cal. Transmission speed-controlling mechanism. No. 1,133,690; Mar. 30; Gaz. vol. 212; p. 1522.
- Woodhull, Frederick W., Alhambra, Cal. Transmission-gear indicator. No. 1,161,572; Nov. 23; Gaz. vol. 220; p. 1247.
- Woodin, William H., et al. (See Matthews, Edwin S., assignor.)
- Wooding, Rufus V., Cleveland, Ohio. Necktie-stretcher. No. 1,164,048; Dec. 14; Gaz. vol. 221; p. 506.
- Woodings, Emanuel, assignor to Verona Tool Works, Verona, Pa. Nut-lock. No. 1,146,380; July 13; Gaz. vol. 216; p. 511.
- Woodit, Richard L., New York, N. Y. Awning-hanger. No. 1,166,165; Dec. 28; Gaz. vol. 221; p. 1326.
- Woodizka, Julia. (See Woodizka, Karl and J.)
- Woodizka, Karl and J., Los Angeles, Cal. Automatic feed and water dispenser. No. 1,134,934; Apr. 6; Gaz. vol. 213; p. 303.
- Woodland, Frank O., Worcester, Mass. Internal-combustion engine. No. 1,131,587; Mar. 9; Gaz. vol. 212; p. 638.
- Woodland, Frank O., Worcester, Mass. Rolling transmission mechanism. No. 1,139,393; May 11; Gaz. vol. 214; p. 625.
- Woodland, Frank O., Worcester, Mass. Band-affixing mechanism. No. 1,145,823; July 6; Gaz. vol. 216; p. 297.
- Woodland, Frank O., Worcester, Mass. Band-affixing mechanism. No. 1,151,504; Aug. 24; Gaz. vol. 217; p. 1283.
- Woodland, Frank O., assignor to Economic Machinery Company, Worcester, Mass. Labeling-machine. No. 1,133,602; Mar. 30; Gaz. vol. 212; p. 1488.
- Woodley, Henry. (See Fox, Frederick, assignor.)
- Woodley, James C., Evanston, Ill. Fibrous composition and manufacture. No. 1,156,122; Oct. 12; Gaz. vol. 219; p. 303.
- Woodley, James C., Evanston, Ill. Manufacturing a fibrous composition. No. 1,166,166; Dec. 28; Gaz. vol. 221; p. 1327.
- Woodman, Albert G., Grand Rapids, Mich. Honey-section former and comb-foundation fastener. No. 1,127,568; Feb. 9; Gaz. vol. 211; p. 356.
- Woodman, George A. (See Carscadin and Woodman.)
- Woodman, George M., Scotia, N. Y. Faucet. No. 1,133,521; Mar. 30; Gaz. vol. 212; p. 1458.
- Woodman, Harold J., Minatare, Nebr. Water-meter. No. 1,164,441; Dec. 14; Gaz. vol. 221; p. 643.
- Woodman, Raymond A., Mitchell, S. D. Developing-tank. No. 1,164,773; Dec. 21; Gaz. vol. 221; p. 798.
- Woodrow, Harry R. (See Torchio and Woodrow.)
- Woodrow, Harry R., assignor to T. E. Murray, New York, N. Y. Apparatus for electric welding. No. 1,145,642; July 6; Gaz. vol. 216; p. 233.
- Woodruff, Charles H., et al. (See Anderson, Andrew S., assignor.)
- Woodruff, Charles W., Middletown, N. Y. Glass-mending device. No. 1,124,093; Jan. 5; Gaz. vol. 210; p. 304.
- Woodruff, Eugene C., State College, Pa. System of motor control. No. 1,136,195; Apr. 20; Gaz. vol. 213; p. 830.
- Woodruff, Frank E., and W. K. Bishop, Binghamton, N. Y. Automatic valve. No. 1,140,429; May 25; Gaz. vol. 214; p. 1060.
- Woodruff, John C., Bayonne, N. J., assignor to The Southern Cotton Oil Company, New York, N. Y. Preparing nickel hydroxid. No. 1,143,343; June 15; Gaz. vol. 215; p. 868.
- Woodruff, John J., and J. Kosetky, Wasco, Cal. Automatic steering mechanism. No. 1,151,145; Aug. 24; Gaz. vol. 217; p. 1162.
- Woodruff, Leonidas D., Hattiesburg, Miss. Pipe-coupling for fluid-pressure coupler-heads. No. 1,123,972; Jan. 5; Gaz. vol. 210; p. 262.

Alphabetical list of patentees—Continued.

- Woodruff, Paul H., Chicago, Ill. Toy railway. No. 1,126,608; Jan. 26; Gaz. vol. 210; p. 1322.
- Woodruff, Willard S., Brooklyn, N. Y., and H. Kissinger, Union Hill, N. J. Signal or indicator. No. 1,131,305; Mar. 9; Gaz. vol. 212; p. 542.
- Woodruff, William D., Belton, Tex. Belt attachment for trousers. No. 1,155,187; Sept. 28; Gaz. vol. 218; p. 1087.
- Woodruff, Willis W., Minneapolis, Minn. Railway-rail tie. No. 1,123,457; Jan. 5; Gaz. vol. 210; p. 89.
- Woods, Al H., *et al.* (See Dickinson, Herbert and R. Y., assignors.)
- Woods, Allie, administratrix. (See Woods, Harry.)
- Woods, Arthur R. T. (See Simpson and Woods.)
- Woods Automatic Fruit Grading Machine Company. (See Woods, James A., Jr., assignor.)
- Woods, Charles C., Phillipsburg, N. J. Making carton or can bodies from fibrous sheets. No. 1,164,153; Dec. 14; Gaz. vol. 221; p. 542.
- Woods, Charles C., Phillipsburg, N. J. Making carton or can bodies from fibrous sheets. No. 1,164,154; Dec. 14; Gaz. vol. 221; p. 542.
- Woods, Charles G., assignor of one-half to J. F. Leahey, St. Louis, Mo. Truss. No. 1,161,103; Nov. 23; Gaz. vol. 220; p. 1079.
- Woods & Chatellier. (See Smykal, Emil, assignor.)
- Woods, Clinton E., assignor to American Graphophone Company, Bridgeport, Conn. Calibrating device for speed-indicators for talking-machines. No. 1,127,569; Feb. 9; Gaz. vol. 211; p. 356.
- Woods, Clinton E., assignor to American Graphophone Company, Bridgeport, Conn. Sound-box for talking-machines. No. 1,145,535; July 6; Gaz. vol. 216; p. 196.
- Woods, Clinton E., assignor to American Graphophone Company, Bridgeport, Conn. Pressing sound-records. No. 1,151,642; Aug. 31; Gaz. vol. 217; p. 1378.
- Woods, Clinton E., assignor to American Graphophone Company, Bridgeport, Conn. Correction device for talking-machines. No. 1,153,665; Sept. 14; Gaz. vol. 218; p. 498.
- Woods, Clinton E., assignor to American Graphophone Company, Bridgeport, Conn. Graphophone. No. 1,163,120; Dec. 7; Gaz. vol. 221; p. 134.
- Woods, Clinton E., assignor to American Graphophone Company, Bridgeport, Conn. Talking-machine. (Re-issue.) No. 14,035; Dec. 21; Gaz. vol. 221; p. 1009.
- Woods, Edwin S., deceased, Chicago, Ill.; A. G. Welch, executor, assignor to A. G. Welch, trustee. Antifriction-bearing. No. 1,145,957; July 13; Gaz. vol. 216; p. 362.
- Woods, Edwin S., deceased, Chicago, Ill.; A. G. Welch, executor, assignor to A. G. Welch, trustee. Antifriction side bearing. No. 1,162,428; Nov. 30; Gaz. vol. 220; p. 1589.
- Woods, Edwin S., deceased, Chicago, Ill.; A. G. Welch, executor, assignor to A. G. Welch, trustee. Antifriction side bearing for railway-cars. No. 1,162,429; Nov. 30; Gaz. vol. 220; p. 1589.
- Woods, Edwin S., deceased, and A. A. Weigel, Chicago, Ill.; said Weigel assignor to said Woods; A. G. Welch, executor, assignor to A. G. Welch, trustee. Antifriction side bearing. No. 1,161,433; Nov. 23; Gaz. vol. 220; p. 1199.
- Woods, Frank R., Hillsdale, Mich. Removable cover for containers. No. 1,136,747; Apr. 20; Gaz. vol. 213; p. 1027.
- Woods, George E. (See Garber, Woods, and Jacobson.)
- Woods, George E., Billings, Mont. Automobile head-lamp control. No. 1,134,801; Apr. 6; Gaz. vol. 213; p. 262.
- Woods, George W., *et al.* (See Webber, William M., assignor.)
- Woods, George W., Viceroy, Saskatchewan, Canada. Force-feed lubricator. No. 1,125,245; Jan. 19; Gaz. vol. 210; p. 799.
- Woods, Harry, deceased, Steubenville, Ohio; A. Woods, administratrix. Water-filter. No. 1,141,744; June 1; Gaz. vol. 215; p. 232.
- Woods, Homer A., Indianapolis, Ind. Portable blackboard and advertiser. No. 1,135,241; Apr. 13; Gaz. vol. 213; p. 454.
- Woods, James A., Jr., assignor to Woods Automatic Fruit Grading Machine Company, Ogden, Utah. Fruit-grading machine. No. 1,132,506; Mar. 16; Gaz. vol. 212; p. 1008.
- Woods, James C. (See Wright and Woods.)
- Woods, James C., Lockport, assignor of one-third to W. H. Wright, Jr., North Tonawanda, and one-third to S. H. Pettit, Lockport, N. Y. Rail. No. 1,153,989; Sept. 21; Gaz. vol. 218; p. 646.
- Woods, Joseph S., Vale, Oreg. Rotary hoof-trimmer. No. 1,125,623; Jan. 19; Gaz. vol. 210; p. 933.
- Woods, Leonard, St. Louis, Mo. Revolver. No. 1,150,566; Aug. 17; Gaz. vol. 217; p. 907.
- Woods, Leonard, St. Louis, Mo. Pistol. No. 1,151,320; Aug. 24; Gaz. vol. 217; p. 1221.
- Woods, Leonard G., Pittsburgh, Pa. Forming castings. No. 1,166,167; Dec. 28; Gaz. vol. 221; p. 1327.
- Woods, Michael, G. W. Gilbert, and J. Little, Melbourne, Victoria, Australia. Machine for dressing stone. No. 1,134,658; Apr. 6; Gaz. vol. 213; p. 210.
- Woods, Nelson T., assignor to E. C. Dahl, Portland, Oreg. Mechanical starting mechanism for internal-combustion engines. No. 1,127,710; Feb. 9; Gaz. vol. 211; p. 405.
- Woods, Norman E., Richmond, Va. Valve. No. 1,156,963; Oct. 19; Gaz. vol. 219; p. 626.
- Woods-Sherwood Company. (See Martin, Albert W., assignor.)
- Woods, Timothy E. (See Curtis, Lewis A., assignor.)
- Woods, Walter. (See Sampson and Woods.)
- Woods, William J., Corning, N. Y., assignor to Empire Machine Company. Apparatus for working glass. No. 1,157,653; Oct. 19; Gaz. vol. 219; p. 866.
- Woods, William J., Corning, N. Y., assignor to Empire Machine Company. Working glass. No. 1,163,963; Dec. 14; Gaz. vol. 221; p. 475.
- Woodside, Daniel E. E., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Transfer mechanism for lap-weld tubing. No. 1,159,561; Nov. 9; Gaz. vol. 220; p. 434.
- Woodsmall, Samuel F., Twin Falls, Idaho. Shoe-shining machine. No. 1,142,924; June 15; Gaz. vol. 215; p. 720.
- Woodsome, John O., assignor to Crane Company, Chicago, Ill. Suction-hood for drying-machines. No. 1,129,155; Feb. 23; Gaz. vol. 211; p. 996.
- Woodsome, John O., assignor to Crane Company, Chicago, Ill. Paper-drying machine. No. 1,129,156; Feb. 23; Gaz. vol. 211; p. 996.
- Woodson, Frank O., Tuolumne, Cal. Crowbar. No. 1,164,155; Dec. 14; Gaz. vol. 221; p. 542.
- Woodson, Robert E., St. Louis, Mo. Nut-cracking machine. No. 1,125,427; Jan. 19; Gaz. vol. 210; p. 865.
- Woodstrom, John I., Chicago, Ill. Extensible copy-holder and guide. No. 1,127,570; Feb. 9; Gaz. vol. 211; p. 357.
- Woodward, Amos W. (See Woodward, Franklin M., assignor.)
- Woodward, Arthur H., assignor to The International Register Company, Chicago, Ill. Register mechanism. No. 1,130,951; Mar. 9; Gaz. vol. 212; p. 420.
- Woodward, Edward M., Worcester, Mass. Driving mechanism for variable-speed machines. No. 1,143,679; June 22; Gaz. vol. 215; p. 1009.
- Woodward, Erastus, Somerville, assignor to American Stamping Machine Company, Lynn, Mass. Printing and marking machine. No. 1,125,428; Jan. 19; Gaz. vol. 210; p. 866.
- Woodward, Erastus, Somerville, assignor to American Stamping Machine Company, Lynn, Mass. Inking device for printing and marking machines. No. 1,138,711; May 11; Gaz. vol. 214; p. 384.
- Woodward, Frank R., Hill, N. H., assignor of one-half to Smith & Hemenway Company, Incorporated, New York, N. Y. Glass-cutter. No. 1,129,374; Feb. 23; Gaz. vol. 211; p. 1073.
- Woodward, Frank R., Hill, N. H., assignor of one-half to Smith & Hemenway Company, Incorporated, New York, N. Y. Magazine glass-cutter. No. 1,134,307; Apr. 6; Gaz. vol. 213; p. 82.
- Woodward, Franklin M., assignor of one-half to A. W. Woodward, Rockford, Ill. Refrigerator. No. 1,151,321; Aug. 24; Gaz. vol. 217; p. 1221.
- Woodward, Frederick E., Lachine, Quebec, Canada. Shoe-filler. No. 1,136,456; Apr. 20; Gaz. vol. 213; p. 924.
- Woodward, Frederick E., Lachine, Quebec, Canada. Shoe-filler. No. 1,136,457; Apr. 20; Gaz. vol. 213; p. 924.
- Woodward, Frederick E., Lachine, Quebec, Canada. Shoe-filler. No. 1,136,458; Apr. 20; Gaz. vol. 213; p. 924.
- Woodward, Frederick E., Lachine, Quebec, Canada. Shoe-filler. No. 1,136,459; Apr. 20; Gaz. vol. 213; p. 924.
- Woodward, Henry E., *et al.* (See Galligan, Emmet F., assignor.)
- Woodward, Irving C., Chicago, Ill. Lock-nut. No. 1,137,941; May 4; Gaz. vol. 214; p. 76.
- Woodward, Joscelyn J., Minneapolis, Minn. Device for working buttonholes. No. 1,126,152; Jan. 26; Gaz. vol. 210; p. 1156.
- Woodward, Joscelyn J., Minneapolis, Minn. Forming reinforced buttonholes. No. 1,126,609; Jan. 26; Gaz. vol. 210; p. 1323.
- Woodward, Joseph, Dayton, Ohio. Feed-regulator. No. 1,155,459; Oct. 5; Gaz. vol. 219; p. 47.
- Woodward, Mark R., Washington, D. C. Tube forming and coating machine. No. 1,140,430; May 25; Gaz. vol. 214; p. 1061.
- Woodward, Oscar, Montclair, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-block for type-writing and like machines. No. 1,124,571; Jan. 12; Gaz. vol. 210; p. 523.
- Woodward, Oscar, Montclair, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,124,828; Jan. 12; Gaz. vol. 210; p. 616.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,123,640; Jan. 5; Gaz. vol. 210; p. 151.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for single-interlock machines. No. 1,123,641; Jan. 5; Gaz. vol. 210; p. 152.

Alphabetical list of patentees—Continued.

- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,124,376; Jan. 12; Gaz. vol. 210; p. 453.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing-machines. No. 1,135,343; Apr. 13; Gaz. vol. 213; p. 490.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,135,420; Apr. 13; Gaz. vol. 213; p. 517.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Presser-foot. No. 1,135,421; Apr. 13; Gaz. vol. 213; p. 517.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,135,646; Apr. 13; Gaz. vol. 213; p. 597.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Thread-controller for sewing-machines. No. 1,136,748; Apr. 20; Gaz. vol. 213; p. 1027.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,139,093; May 11; Gaz. vol. 214; p. 521.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Thread-controller for sewing-machines. No. 1,139,094; May 11; Gaz. vol. 214; p. 522.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing-machines. No. 1,143,010; June 15; Gaz. vol. 215; p. 751.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing-machines. No. 1,145,643; July 6; Gaz. vol. 216; p. 233.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,145,644; July 6; Gaz. vol. 216; p. 234.
- Woodward, Russel G., Waukegan, assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for shirring-machines. No. 1,145,645; July 6; Gaz. vol. 216; p. 234.
- Woodward, Russel G., assignor to Union Special Machine Company, Chicago, Ill. Edging-guide for sewing-machines. No. 1,138,343; May 4; Gaz. vol. 214; p. 219.
- Woodward, William, Chicago, Ill. Internal-combustion engine. No. 1,142,074; June 8; Gaz. vol. 215; p. 384.
- Woodward, William S., Burt, Mich. Sliding-door lock. No. 1,141,439; June 1; Gaz. vol. 215; p. 127.
- Woodworth, Dallas C., Rock Island, Ill. Speed-varying mechanism. No. 1,165,353; Dec. 21; Gaz. vol. 221; p. 1000.
- Woodworth, Joseph V., Brooklyn, N. Y., assignor to Boston Pressed Metal Company, Worcester, Mass. Pressed metal wheel. No. 1,129,617; Feb. 23; Gaz. vol. 211; p. 1160.
- Woolard, Linyear N., Washington, N. C. Folding step. No. 1,128,212; Feb. 9; Gaz. vol. 211; p. 582.
- Woolbridge, John, assignor of fifty-one one-hundredths to L. Isaacs, Rockdale, Tex. Cotton-gin. No. 1,124,094; Jan. 5; Gaz. vol. 210; p. 304.
- Woolbridge, Orville E., Greenville, Ill. Power-transmission gear. No. 1,141,030; May 25; Gaz. vol. 214; p. 1270.
- Woolery, Horace E., Fairmont, Minn. Piston-ring. No. 1,127,711; Feb. 9; Gaz. vol. 211; p. 406.
- Woolery, Horace E., assignor to Fairmont Machine Company, Fairmont, Minn. Adjustable speed-governor. No. 1,163,964; Dec. 14; Gaz. vol. 221; p. 475.
- Woolery, Lee O., Tombstone, Ariz. Curtain. No. 1,127,571; Feb. 9; Gaz. vol. 211; p. 357.
- Woolley, John E., Flindlay, N. Y. Outlet-valve for oil-tanks. No. 1,155,537; Oct. 5; Gaz. vol. 219; p. 75.
- Wolf, Charles E., Wynnewood, Pa. Garment-fastener. No. 1,126,610; Jan. 26; Gaz. vol. 210; p. 1323.
- Wolf, Frank H., Chicago, Ill., assignor to H. L. Hildreth, Boston, Mass. Honeycomb-candy machine. No. 1,143,564; June 15; Gaz. vol. 215; p. 944.
- Wolf, Frank H., assignor to H. Harfst, F. H. Judd, and T. M. Sullivan, Chicago, Ill. Coating-machine. No. 1,132,895; Mar. 23; Gaz. vol. 212; p. 1197.
- Wolf, Silas P., Omaha, Nebr. Lubricator. No. 1,146,606; July 13; Gaz. vol. 216; p. 592.
- Woolley, Edward W., Jersey City, N. J. Clutch and regulating mechanism. No. 1,157,275; Oct. 19; Gaz. vol. 219; p. 738.
- Woolley, Frederick R., Jr., Great Falls, Mont. Automatic fender. No. 1,137,563; Apr. 27; Gaz. vol. 213; p. 1355.
- Woolley, Walton D., assignor to Killark Electric Manufacturing Company, St. Louis, Mo. Entrance-fitting or pipe-cap for electric-service pipes or conduits. No. 1,146,118; July 13; Gaz. vol. 216; p. 419.
- Woolner, Adolph, Jr., Peoria, Ill. Distillation. No. 1,153,992; Sept. 21; Gaz. vol. 218; p. 647.
- Woolsey, James P. (See Croslen, William T., assignor.)
- Woolsey, William A., Brooklyn, N. Y. Horseshoe-calk. No. 1,148,207; July 27; Gaz. vol. 216; p. 1200.
- Woolwine, Lafayette M. (See Houghland, Frank H., assignor.)
- Woomert, Chawles E., Washington, D. C. Combination shoe-horn and button-hook. No. 1,125,429; Jan. 19; Gaz. vol. 210; p. 866.
- Woonsocket Napping Machinery Company. (See Greene, Harry S., assignor.)
- Wooton, John A., Fort Meade, Fla. Ice-dividing mechanism. No. 1,140,241; Aug. 10; Gaz. vol. 217; p. 370.
- Wooten, Charles T., assignor to T. N. Richardson, Philadelphia, Pa. Can lid or top. No. 1,151,322; Aug. 24; Gaz. vol. 217; p. 1222.
- Wootton, Henrietta M., Boston, Mass. Ornamental article. No. 1,128,929; Feb. 16; Gaz. vol. 211; p. 882.
- Wootton, William S., Roanoke, Va. Suspensory. No. 1,135,479; Apr. 13; Gaz. vol. 213; p. 537.
- Worcester Manufacturing Company. (See Ball, Harry, assignor.)
- Worcester Metal Goods Company. (See Smith, Clarence E., assignor.)
- Worcester Trust Co., executor. (See Kidder, Richard E.)
- Word, Oscar E. (See Pillow, Podge, assignor.)
- Worden, Horace L., Phoenix, Ariz. Hydraulic speed-changing and reversing mechanism. No. 1,147,586; July 20; Gaz. vol. 216; p. 954.
- Wordingham, George, Milwaukee, Wis. Merchandise-wrapper. No. 1,133,522; Mar. 30; Gaz. vol. 212; p. 1459.
- Wordingham, George, Milwaukee, Wis. Shirt-waist form. No. 1,158,358; Oct. 26; Gaz. vol. 219; p. 1178.
- Woriel, Clarence A., Grand Rapids, Mich. Flying-machine. No. 1,133,451; Mar. 30; Gaz. vol. 212; p. 1433.
- Workman, Charles H., assignor to Workman Packing Co., San Francisco, Cal. Can-opener. No. 1,145,343; July 6; Gaz. vol. 216; p. 127.
- Workman, Charles H., assignor to Workman Packing Co., San Francisco, Cal. Can-lining machine. No. 1,160,965; Nov. 16; Gaz. vol. 220; p. 986.
- Workman, Frances N., Los Angeles, Cal. Undergarment. No. 1,128,213; Feb. 9; Gaz. vol. 211; p. 583.
- Workman, James M., Greenville, S. C. Automobile-top. No. 1,123,458; Jan. 5; Gaz. vol. 210; p. 89.
- Workman Packing Co. (See Workman, Charles H., assignor.)
- Worksman, Morris, New York, N. Y. Delivery-vehicle. No. 1,146,296; July 13; Gaz. vol. 216; p. 482.
- Worley, Beattie R., and G. H. Kellington, Decatur, Ill. Draft-arm for soda-fountains. No. 1,156,736; Oct. 12; Gaz. vol. 219; p. 517.
- Worley, Ulysses G. (See Dennis, Hunter, assignor.)
- Worms, Edwin C., New York, N. Y. Combined mop head and wringer. No. 1,161,104; Nov. 23; Gaz. vol. 220; p. 1079.
- Worms & Loeb. (See Eiseman, Moses H., assignor.)
- Wormwood, Daniel W. (See Pruden and Wormwood.)
- Worns, Edwin C., Rutherford, N. J. Tool. No. 1,142,473; June 8; Gaz. vol. 215; p. 525.
- Wörnag, Jakob. (See Zugmaier and Wörnag.)
- Worrall, Henry T., Chelmsford, England. Locking device for electric lamps. No. 1,137,177; Apr. 27; Gaz. vol. 213; p. 1217.
- Worrall, Lawrence P., et al. (See Hammond, John W. and P. M., assignors.)
- Worrel, Robert H., Surveyor, assignor of one-fourth to J. H. Miller, Hinton, and one-fourth to G. W. Johnson, Parkersburg, W. Va. Pulley-block. No. 1,141,745; June 1; Gaz. vol. 215; p. 232.
- Worrest, Alfred H., Lancaster, Pa. Shock-absorber. No. 1,142,925; June 15; Gaz. vol. 215; p. 720.
- Worrest, Alfred H., Lancaster, Pa. Wheel-mounting. No. 1,155,538; Oct. 5; Gaz. vol. 219; p. 75.
- Worsham, Louis W., and J. A. Hautier, Houston, Tex.; said Worsham assignor to said Hautier. Ribbon cabinet and winding machine. No. 1,138,598; May 4; Gaz. vol. 214; p. 305.
- Worsing, Robert L., et al. (See Boudwin, Edward H., assignor.)
- Worst, Edward F. (See Hutton and Worst.)
- Worswick, Al Lacy, San Francisco, Cal. Rail tie and clip. No. 1,130,952; Mar. 9; Gaz. vol. 212; p. 420.
- Worswick, James E., assignor of one-half to W. L. Allen, Montgomery, Ala. Brake-shoe. No. 1,134,715; Apr. 6; Gaz. vol. 213; p. 231.
- Worth, John S., assignor to J. S. and W. P. Worth, Coatesville, Pa. Dumping-car. No. 1,133,248; Mar. 23; Gaz. vol. 212; p. 1324.
- Worth, William E., San Francisco, Cal. Lettering-pen. No. 1,136,196; Apr. 20; Gaz. vol. 213; p. 830.
- Worth, William P. (See Worth, John S., assignor.)
- Worthington, Charles C., Shawnee, Pa. Flying-machine. No. 1,135,242; Apr. 13; Gaz. vol. 213; p. 454.
- Worthington, Charles W., assignor of one-third to H. O. Munson, Rushville, Ill. Door-fastener. No. 1,126,929; Feb. 2; Gaz. vol. 211; p. 93.
- Worthington Cotton Harvester Company. (See Straus, Theodore E., assignor.)
- Worthington, Tillman B., Scotland, Pa. Saw-set. No. 1,152,256; Aug. 31; Gaz. vol. 217; p. 1589.
- Worthington, Warren, Westmont borough, Pa. Shear-gage. No. 1,150,921; Aug. 24; Gaz. vol. 217; p. 1080.
- Wortley, Clark C., Chicago, Ill. Sign. No. 1,128,741; Feb. 16; Gaz. vol. 211; p. 814.
- Wortman, Clarence. (See Scanlan, Daniel, assignor.)

- Wospil, Adolf, Trenton, N. J. Cuspidor. No. 1,166,298; Dec. 28; Gaz. vol. 221; p. 1375.
- Wotherspoon, William W., New York, N. Y. Air-pressure system and operation. No. 1,149,709; Aug. 10; Gaz. vol. 217; p. 540.
- Wotton, James A., Cranford, N. J., assignor to Western Electric Company, New York, N. Y. Selective signaling device. No. 1,124,680; Jan. 12; Gaz. vol. 210; p. 563.
- Wotton, James A., Montclair, N. J., assignor to Western Electric Company, New York, N. Y. Switchboard apparatus. No. 1,159,562; Nov. 9; Gaz. vol. 220; p. 435.
- Wotton, James A., Montclair, N. J., assignor to Western Electric Company, New York, N. Y. Substation message-register. No. 1,162,007; Nov. 30; Gaz. vol. 220; p. 1444.
- Wotton, Peter M., Bristol, England. Falls for raising and lowering life-boats. No. 1,126,153; Jan. 26; Gaz. vol. 210; p. 1156.
- Wotton, Peter M., Bristol, England. Life-boat-releasing gear. No. 1,126,154; Jan. 26; Gaz. vol. 210; p. 1156.
- Wouda, Sjoerd. (See Van der Hoorn and Wouda.)
- Wrasse, John C., Mishawaka, Ind. Circuit-switch. No. 1,123,829; Jan. 5; Gaz. vol. 210; p. 215.
- Wray, Charles F., assignor to National Brass Manufacturing Co., Rochester, N. Y. Lubricator-cup. No. 1,133,353; Mar. 30; Gaz. vol. 212; p. 1393.
- Wray, Charles F., assignor to National Brass Manufacturing Company, Rochester, N. Y. Faucet. No. 1,155,984; Oct. 5; Gaz. vol. 219; p. 228.
- Wray, Edward, assignor to Kalle and Company, Aktiengesellschaft, Biebrich, Germany. Manufacture of black vat dyestuffs. No. 1,157,485; Oct. 19; Gaz. vol. 219; p. 811.
- Wray, Edward, Biebrich-on-the-Rhine, and F. Hess, Wiesbaden, assignors to Kalle and Company, Aktiengesellschaft, Biebrich-on-the-Rhine, Germany. Manufacture of vat dyestuffs. No. 1,144,577; June 29; Gaz. vol. 215; p. 1347.
- Wray, Edward H. (See Hagman and Wray.)
- Wray, James A., assignor of one-half to W. H. Hazlett, Los Angeles, Cal. Separable steel square. No. 1,140,555; May 25; Gaz. vol. 214; p. 1107.
- Wray, Jay, assignor of one-half to W. I. Turck, Los Angeles, Cal. Friction change-speed mechanism. No. 1,165,354; Dec. 21; Gaz. vol. 221; p. 1000.
- Wray's Fresh Water System. (See McGuire, William J., assignor.)
- Wray, William A., et al. (See Grove, Martin L., assignor.)
- Wrede, Hans, Berlin, Germany, assignor to Corn Products Refining Co., New York, N. Y. Coated paper and making the same. No. 1,147,996; July 27; Gaz. vol. 216; p. 1124.
- Wrenn, Virginius, Amelia Court-House, Va. Poultry-raising plant. No. 1,127,712; Feb. 9; Gaz. vol. 211; p. 406.
- Wright, Adelbert, St. Louis, Mo. Bevel-finder for rafter-cuttings. No. 1,125,246; Jan. 19; Gaz. vol. 210; p. 800.
- Wright, Adolph B., Weston, Iowa. Plowshare. No. 1,133,211; Mar. 23; Gaz. vol. 212; p. 1313.
- Wright, Albert N., Rochester, N. Y. Hanger for use in concrete construction. No. 1,136,460; Apr. 20; Gaz. vol. 213; p. 924.
- Wright, Alcinous Y. (See Snow, Jacob H., assignor.)
- Wright, Alfred M., Bloomington, Ill. Joint for hose connections. No. 1,153,002; Sept. 7; Gaz. vol. 218; p. 228.
- Wright, Alva B., Ramsey, Ill. Baling-press. No. 1,146,680; July 13; Gaz. vol. 216; p. 618.
- Wright, Arthur A., Moulton, Iowa. Journal-box. No. 1,147,831; July 20; Gaz. vol. 216; p. 689.
- Wright, Arthur B., Hinsdale, Ill. Radiation-regulator. No. 1,152,585; Sept. 7; Gaz. vol. 218; p. 76.
- Wright, Arthur D., assignor of one-half to C. E. Wright, Toledo, Ohio. Belt-making machine. No. 1,123,459; Jan. 5; Gaz. vol. 210; p. 90.
- Wright, Benjamin F., Elk Hill, Va. Means for propelling steamships or other vessels. No. 1,140,786; May 25; Gaz. vol. 214; p. 1183.
- Wright, Benjamin S., Mount Vernon, assignor to The American Tobacco Company, New York, N. Y. Display-card holder. No. 1,152,461; Sept. 7; Gaz. vol. 218; p. 27.
- Wright, Bert R. (See Leitch and Wright.)
- Wright, Carter L., Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Charge-separator for fixed ammunition. No. 1,151,643; Aug. 31; Gaz. vol. 217; p. 1378.
- Wright, Charles A., Philadelphia, Pa. Collapsible table. No. 1,126,611; Jan. 26; Gaz. vol. 210; p. 1323.
- Wright, Charles D., Adrian, Mich. Gas-lamp. No. 1,134,935; Apr. 6; Gaz. vol. 213; p. 304.
- Wright, Charles D., Adrian, Mich. Self-cleaning attachment for rakes. No. 1,137,825; May 4; Gaz. vol. 214; p. 36.
- Wright, Charles D., Adrian, Mich., assignor of one-half to R. D. Braden, Chicago, Ill. Automobile power-transmitting apparatus. No. 1,143,157; June 15; Gaz. vol. 215; p. 802.
- Wright, Chester L., M. L. Smart, and C. M. Hopper, Sumner, Mo. Automatic mail-pouch-locking appliance. No. 1,162,121; Nov. 30; Gaz. vol. 220; p. 1485.
- Wright, Chester L., M. L. Smart, C. M. Hopper, and G. W. Thompson, Sumner, Mo. Automatic register for tanks. No. 1,142,926; June 15; Gaz. vol. 215; p. 721.
- Wright, Christopher, Muskegon, Mich. Collapsible chicken-coop. No. 1,145,646; July 6; Gaz. vol. 216; p. 235.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Measuring-line reel. No. 1,123,642; Jan. 5; Gaz. vol. 210; p. 152.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Pump-lining extractor. No. 1,126,612; Jan. 26; Gaz. vol. 210; p. 1323.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Hydraulic swivel. (Reissue.) No. 13,888; Mar. 2; Gaz. vol. 212; p. 298.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Rotary drilling-machine. No. 1,131,100; Mar. 9; Gaz. vol. 212; p. 471.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Bearing. No. 1,138,167; May 4; Gaz. vol. 214; p. 157.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Pump. No. 1,145,733; July 6; Gaz. vol. 216; p. 266.
- Wright, Cora E. (See Wright, Arthur D., assignor.)
- Wright, David M., Bergholz, Ohio. Animal-trap. No. 1,131,306; Mar. 9; Gaz. vol. 212; p. 542.
- Wright & Ditson. (See Denny, Clarence B., assignor.)
- Wright, Edward, Brooklyn, N. Y. Tractor operated by internal-combustion engines. No. 1,141,295; June 1; Gaz. vol. 215; p. 74.
- Wright, Edwin C., Newport, Ky., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. System of distribution. No. 1,134,659; Apr. 6; Gaz. vol. 213; p. 211.
- Wright, Ellery C. (See Johnson, Lawrence E., assignor.)
- Wright, Ellery C. (See McDevitt, James W., assignor.)
- Wright, Fenton, Chicago, Ill. Coin-actuating savings-bank. No. 1,139,006; May 11; Gaz. vol. 214; p. 491.
- Wright, Ford L., Anthony, Kans. Lower-loop retainer for motion-picture-projecting apparatus. No. 1,152,384; Aug. 31; Gaz. vol. 217; p. 1635.
- Wright, Frank M., Topeka, Kans. Bath-tub attachment. No. 1,148,424; July 27; Gaz. vol. 216; p. 1277.
- Wright, Frank M., Topeka, Kans. Combination-faucet. No. 1,160,484; Nov. 16; Gaz. vol. 220; p. 814.
- Wright, Frank M., Lyons, N. Y. Can-filling machine. No. 1,151,146; Aug. 24; Gaz. vol. 217; p. 1162.
- Wright, Fred W. (See Pearce, Parker, and Wright.)
- Wright, Frederick A., Scranton, assignor of one-half to W. J. Brong, Peckville, Pa. Electric automobile-signal. No. 1,159,312; Nov. 2; Gaz. vol. 220; p. 315.
- Wright, Gilbert. (See Morgan and Wright.)
- Wright, Gilbert, Schenectady, N. Y., assignor to General Electric Company. Basing incandescent lamps. No. 1,156,650; Oct. 12; Gaz. vol. 219; p. 488.
- Wright, Harley M., Darlington, Okla. Telephone system. No. 1,131,455; Mar. 9; Gaz. vol. 212; p. 504.
- Wright, Harry E. (See Faifer, Anthony, assignor.)
- Wright, Herbert R. (See Ottosen and Wright.)
- Wright, Herschel L., Solomon, Kans. Steering device for tractors. No. 1,165,481; Dec. 28; Gaz. vol. 221; p. 1084.
- Wright, James, Hamilton, Ontario, Canada. Safety-guard for power-presses. No. 1,135,480; Apr. 13; Gaz. vol. 213; p. 537.
- Wright, James E., Bay City, Mich. Non-glaring headlight. No. 1,138,712; May 11; Gaz. vol. 214; p. 385.
- Wright, James E., Bay City, Mich. Rail-crossing. No. 1,138,713; May 11; Gaz. vol. 214; p. 385.
- Wright, James T., Metuchen, N. J. Lamp-signal apparatus for automobiles. No. 1,124,681; Jan. 12; Gaz. vol. 210; p. 564.
- Wright, John, Wilmington, Del. Punching-machine. No. 1,153,410; Sept. 14; Gaz. vol. 218; p. 409.
- Wright, John C., Rochester, N. Y. Apparatus for treating photographic films. No. 1,158,615; Nov. 2; Gaz. vol. 220; p. 73.
- Wright, John E., Pittsburgh, Pa., assignor to Wright Telegraphic Typewriter Company, New York, N. Y. Printing-telegraph receiver. No. 1,140,861; May 25; Gaz. vol. 214; p. 1212.
- Wright, John F., and G. W. Tamsitt, Dallas, assignors of one-half to E. M. Lucas, Van Alstyne, Tex. Oil-burner. No. 1,158,616; Nov. 2; Gaz. vol. 220; p. 73.
- Wright, John H., Jefferson, Iowa. Cultivator-shovel. No. 1,160,027; Nov. 9; Gaz. vol. 220; p. 600.
- Wright, John P., Newark, Del. Insulated rail-joint. No. 1,124,989; Jan. 12; Gaz. vol. 210; p. 672.
- Wright, John T., Washington, D. C. Valve for internal-combustion engines. No. 1,160,028; Nov. 9; Gaz. vol. 220; p. 601.
- Wright, John T., assignor of one-third to W. R. Crow and J. R. Maxey, Kingston, Okla. Scissors or shears. No. 1,137,687; Apr. 27; Gaz. vol. 213; p. 1395.
- Wright, John W., Oldham, England. Apparatus for controlling trains on railways. No. 1,165,054; Dec. 21; Gaz. vol. 221; p. 896.
- Wright, Joseph, Chicago, Ill. Gage for cutting hair. No. 1,132,699; Mar. 23; Gaz. vol. 212; p. 1126.

Alphabetical list of patentees—Continued.

- Wright, Joseph L., Cleveland, Ohio, assignor to The National Engineering Corporation, Washington, D. C. Telephone-exchange system. No. 1,126,173; Jan. 26; Gaz. vol. 210; p. 1165.
- Wright, Joseph L., Cleveland, Ohio, assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Telephone system. No. 1,145,109; July 6; Gaz. vol. 216; p. 48.
- Wright, Joseph L., Washington, D. C., assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Telephone-exchange system. No. 1,128,646; Feb. 16; Gaz. vol. 211; p. 782.
- Wright, Joseph L., Washington, D. C., assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Telephone-exchange system. No. 1,134,308; Apr. 6; Gaz. vol. 213; p. 82.
- Wright, Joseph L., Washington, D. C., assignor, by mesne assignments, to F. C. Stevens, Attica, N. Y. Telephone-exchange system. No. 1,137,372; Apr. 27; Gaz. vol. 213; p. 1290.
- Wright, Judson E., assignor of one-half to C. Frey, San Diego, Cal. Foldable seat for converting two-seated automobile-bodies into lounges. No. 1,140,931; May 25; Gaz. vol. 214; p. 1238.
- Wright, Kirk K. (See Wright, Ralph G. and K. K.)
- Wright, Lewis T., London, England. Treatment of pyrite or other iron sulfids. No. 1,164,049; Dec. 14; Gaz. vol. 221; p. 506.
- Wright, Marshall C., New York, N. Y. Automatic train-stop. No. 1,123,973; Jan. 5; Gaz. vol. 210; p. 263.
- Wright, Marshall C., New York, N. Y. Roadside device for automatic train-stops. No. 1,130,558; Mar. 2; Gaz. vol. 212; p. 252.
- Wright, Milton H., University Place, Nebr. Knockdown seat. No. 1,140,930; May 25; Gaz. vol. 214; p. 1238.
- Wright, Morris S., assignor to M. S. Wright Company, Worcester, Mass. Vacuum-cleaner. No. 1,141,597; June 1; Gaz. vol. 215; p. 182.
- Wright, Noah S. (See Moakler, John W., assignor.)
- Wright, Noah S., East Worcester, N. Y. Fluid-gage. No. 1,129,265; Feb. 23; Gaz. vol. 211; p. 1035.
- Wright, Parvin, Seattle, Wash. Electric furnace. No. 1,152,586; Sept. 7; Gaz. vol. 218; p. 77.
- Wright, Ralph G. and K. K., Buffalo, N. Y. Bottle-filling machine. No. 1,151,147; Aug. 24; Gaz. vol. 217; p. 1163.
- Wright, Randolph L., Wedgefield, S. C. Barrel-rack. No. 1,139,007; May 11; Gaz. vol. 214; p. 491.
- Wright, Randolph L., Wedgefield, S. C. Cotton-packer. No. 1,148,067; July 27; Gaz. vol. 216; p. 1150.
- Wright, Richard H. (See Braggs, Edward L., assignor.)
- Wright, Richard H. (See Crags, Ross V., assignor.)
- Wright, Richard H. (See Dalton, John T., assignor.)
- Wright, Richard H. (See Fischer, Louis, assignor.)
- Wright, Robert E., East Point, Ga. Hoe. No. 1,128,742; Feb. 16; Gaz. vol. 211; p. 815.
- Wright, Samson D., Cleveland, Ohio. Dump-car. No. 1,124,233; Jan. 5; Gaz. vol. 210; p. 354.
- Wright, Stephen G., Oak Park, Ill. Prepared roofing. No. 1,144,313; June 22; Gaz. vol. 215; p. 1230.
- Wright Telegraphic Typewriter Company. (See Wright, John E., assignor.)
- Wright, Thomas, Jersey City, N. J. Dumping-wagon. No. 1,139,945; May 18; Gaz. vol. 214; p. 856.
- Wright, Thomas, Jersey City, N. J. Dump-wagon. No. 1,157,486; Oct. 19; Gaz. vol. 219; p. 812.
- Wright, Thomas, Jersey City, N. J. Body-elevating mechanism for vehicles. No. 1,157,487; Oct. 19; Gaz. vol. 219; p. 812.
- Wright, Thomas D., *et al.* (See Conrad, Joseph L., assignor.)
- Wright, Thomas W., Anderson, Ind. Tube-converting mechanism. No. 1,133,903; Mar. 30; Gaz. vol. 212; p. 1595.
- Wright, Walter, San Francisco, Cal. Individual-letter-printing apparatus. No. 1,135,243; Apr. 13; Gaz. vol. 213; p. 454.
- Wright, Walter, San Francisco, Cal., assignor to Addressograph Company, Chicago, Ill. Printing apparatus. No. 1,152,587; Sept. 7; Gaz. vol. 218; p. 77.
- Wright, Walter, San Francisco, Cal., assignor to Addressograph Company, Chicago, Ill. Individual-letter-printing apparatus. No. 1,152,588; Sept. 7; Gaz. vol. 218; p. 78.
- Wright, Walter, San Francisco, Cal., assignor, by mesne assignments, to Underwood Computing Machine Company. Computing attachment for type-writers. No. 1,160,102; Nov. 9; Gaz. vol. 220; p. 627.
- Wright, Walter, San Francisco, Cal., assignor, by mesne assignments, to Underwood Computing Machine Company. Computing attachment for type-writers. No. 1,162,730; Nov. 30; Gaz. vol. 220; p. 1690.
- Wright, Walter, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. No. 1,163,801; Dec. 14; Gaz. vol. 221; p. 420.
- Wright, Walter, Stoke Park, Coventry, assignor to The Dunlop Rubber Company, Limited, Aston Cross, near Birmingham, England. Spanner or wrench. No. 1,154,154; Sept. 21; Gaz. vol. 218; p. 703.
- Wright, Walter, Kalgoorlie, Western Australia, and L. Langford, South Yarra, Victoria, Australia. Railway signaling apparatus. No. 1,140,227; May 18; Gaz. vol. 214; p. 954.
- Wright, Walter C., Atlanta, Ga., assignor to The Lamson Company, Boston, Mass. Store-service apparatus and the like. No. 1,142,474; June 8; Gaz. vol. 215; p. 526.
- Wright, Ward E., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,136,749; Apr. 20; Gaz. vol. 213; p. 1027.
- Wright, Ward E., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,145,647; July 6; Gaz. vol. 216; p. 235.
- Wright, Wilbur L., assignor to Ajax Manufacturing Company, Washington, D. C. Mechanism for producing and applying wire lengths or other strips. No. 1,140,228; May 18; Gaz. vol. 214; p. 954.
- Wright, William, Chicago, Ill. Yoke for car-coupling draw-bars. No. 1,125,430; Jan. 19; Gaz. vol. 210; p. 866.
- Wright, William, Bradford, Pa., assignor to Bovaird & Seyfang Manufacturing Company. Lubricator. No. 1,157,488; Oct. 19; Gaz. vol. 219; p. 813.
- Wright, William C., St. Louis, Mo. Machine for marking shoe-uppers. No. 1,125,624; Jan. 19; Gaz. vol. 210; p. 933.
- Wright, William D., and J. H. McCarthy, Albion, N. Y. Fruit and vegetable grader. No. 1,159,460; Nov. 9; Gaz. vol. 220; p. 399.
- Wright, William H., deceased; W. H. Wright, Jr., executor, North Tonawanda, and J. C. Woods, assignors of one-third to S. H. Pettit, Lockport, N. Y. Rail. No. 1,153,990; Sept. 21; Gaz. vol. 218; p. 646.
- Wright, William H., Jr., *et al.* (See Woods, James C., assignor.)
- Wright, William H., Jr., executor. (See Wright and Woods.)
- Wright, Wilson D. C. (See Henderson and Wright.)
- Wright, Wilson D. C., Philadelphia, Pa. Signaling device for vehicles. No. 1,155,026; Sept. 28; Gaz. vol. 218; p. 1028.
- Wright, Wilson D. C., Philadelphia, Pa. Adjustable vise. No. 1,155,027; Sept. 28; Gaz. vol. 218; p. 1029.
- Wright Wire Company. (See Gleeson, Michael F., assignor.)
- Wrighton, William J., assignor to The Leeds & Northrup Company, Philadelphia, Pa. Electric furnace. No. 1,165,055; Dec. 21; Gaz. vol. 221; p. 896.
- Wrightson, George H., Jr., Butte, Mont. Pump-plunger. No. 1,133,778; Mar. 30; Gaz. vol. 212; p. 1552.
- Wrigley, Henry I., assignor to Universal Draft Gear Attachment Company, Chicago, Ill. Draft-plate for railway-cars. No. 1,156,573; Oct. 12; Gaz. vol. 219; p. 460.
- Wrigley, Henry I., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft-gear yoke. No. 1,164,695; Dec. 21; Gaz. vol. 221; p. 771.
- Wrigley, Henry I., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft-plate for railway-cars. No. 1,164,696; Dec. 21; Gaz. vol. 221; p. 772.
- Wrobel, Wladyslaw, Little Falls, N. Y. Cooking utensil. No. 1,130,234; Mar. 2; Gaz. vol. 212; p. 136.
- Wuczkowski, Richard, Vienna, Austria-Hungary. Construction of ferroconcrete trusses, girders, and the like. No. 1,153,411; Sept. 14; Gaz. vol. 218; p. 410.
- Wuefling, Firm of Johann A. (See Busch, Albert, assignor.)
- Wuerpel, Morris, assignor to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Car-coupling. No. 1,127,145; Feb. 2; Gaz. vol. 211; p. 170.
- Wuerpel, Morris, assignor to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Automatic car-coupling. No. 1,131,194; Mar. 9; Gaz. vol. 212; p. 503.
- Wuerth, William E., *et al.* (See Steckle, Edward J., assignor.)
- Wuescher, Davis S., New Orleans, La. Timber-dog driver. No. 1,163,301; Dec. 7; Gaz. vol. 221; p. 198.
- Wuestner, Clarence J., and A. G. Schumann, Highlandtown, Md.; said Wuestner assignor to said Schumann. Furnace. No. 1,160,806; Nov. 16; Gaz. vol. 220; p. 930.
- Wuest, Philip, Jr., Woodbury, N. J., assignor to O. Blasius, Philadelphia, Pa. Valve mechanism for piano-players. No. 1,127,146; Feb. 2; Gaz. vol. 211; p. 170.
- Wuesthoff, Frederick J., San Francisco, Cal. Mail-chute. No. 1,124,095; Jan. 5; Gaz. vol. 210; p. 304.
- Wulbern, Louis G. (See Wehmann and Wulbern.)
- Wulf, Charles A., Indianapolis, Ind. Flushing-valve. No. 1,146,832; July 20; Gaz. vol. 216; p. 659.
- Wulf, Ezra H., Toledo, Ohio. Automatic train-stop. No. 1,138,344; May 4; Gaz. vol. 214; p. 220.
- Wulf, Ezra H., Toledo, Ohio. Track device. No. 1,165,645; Dec. 28; Gaz. vol. 221; p. 1145.
- Wulf, Mary, temporary administratrix. (See Wulf, William F.)
- Wulf, Otto, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Red wool-dye-stuffs and making same. No. 1,154,826; Sept. 28; Gaz. vol. 218; p. 962.
- Wulf, William F., deceased; M. Wulf, temporary administratrix, San Antonio, Tex. Wrench. No. 1,128,214; Feb. 9; Gaz. vol. 211; p. 583.
- Wulkan, Heinrich, Budapest, assignor to Dextrin Automat. Gesellschaft m. b. H., Vienna, Austria-Hungary. Production of glucose from starch. No. 1,139,620; May 18; Gaz. vol. 214; p. 741.

- Wulkan, Heinrich, Budapest, assignor to Dextrin Automat. Gesellschaft m. b. H., Vienna, Austria-Hungary. Moistening and cooling dextrin. No. 1,139,621; May 18; Gaz. vol. 214; p. 741.
- Wulkan, Louis, Cedarhurst, and K. Glass, New York, N. Y. Separable joint for display-figures. No. 1,134,716; Apr. 6; Gaz. vol. 213; p. 232.
- Wuliyamov, Frédéric, Lausanne, Switzerland. Starting-gear for motor-cars. No. 1,166,105; Dec. 28; Gaz. vol. 221; p. 1301.
- Wunder, George J., Howard, S. D. Bag-holder. No. 1,157,138; Oct. 19; Gaz. vol. 219; p. 688.
- Wunderlich, Chris J., Deadwood, S. D. Automobile-fender. No. 1,160,029; Nov. 9; Gaz. vol. 220; p. 601.
- Wunderlich, Franz M. H., Dresden-Löbtau, Germany. Cinematograph-projector. No. 1,162,430; Nov. 30; Gaz. vol. 220; p. 1589.
- Wundrack, Otto, Maywood, Ill. Mechanical stoker. No. 1,162,965; Dec. 7; Gaz. vol. 221; p. 81.
- Wunsch, William, Brooklyn, N. Y. Game-piece. No. 1,144,926; June 29; Gaz. vol. 215; p. 1467.
- Wunsch, William, Brooklyn, N. Y. Game-board. No. 1,144,927; June 29; Gaz. vol. 215; p. 1467.
- Wunschow, Otto B., Chattanooga, Tenn. Perfume-distributor. No. 1,131,307; Mar. 9; Gaz. vol. 212; p. 543.
- Wurdeman, Alphon W. C., administrator. (See Ballauf, Daniel.)
- Wurm, Max, Brooklyn, N. Y. Extension-table. No. 1,154,827; Sept. 28; Gaz. vol. 218; p. 962.
- Wurz, Joseph. (See Klix, Ulrich J., assignor.)
- Wyatt, Clayton F., Fullerton, Cal. Music-leaf turner. No. 1,152,462; Sept. 7; Gaz. vol. 218; p. 28.
- Wyatt, George S., and C. R. Farmer, Albion, Iowa. Wire-less check-ro attachment for rotary drop corn-planters. No. 1,140,556; May 25; Gaz. vol. 214; p. 1107.
- Wyatt, Norvell R., Grandview, Mo. Non-refillable bottle. No. 1,164,442; Dec. 14; Gaz. vol. 221; p. 643.
- Wyckoff, Amos A., Santa Cruz, Cal., assignor to Coin Time Lock Co., Chicago, Ill. Coin-controlled lock. No. 1,136,197; Apr. 20; Gaz. vol. 213; p. 831.
- Wyckoff, Amos A., Santa Cruz, Cal., assignor to Coin Time Lock Co., Chicago, Ill. Coin-controlled lock. No. 1,136,198; Apr. 20; Gaz. vol. 213; p. 831.
- Wyckoff, Andrew D. (See Bechtold and Wyckoff.)
- Wyckoff, Andrew D. (See Johnson and Wyckoff.)
- Wyckoff, Andrew D., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Pump. No. 1,126,167; Jan. 26; Gaz. vol. 210; p. 1162.
- Wyckoff, Herbert B., Cincinnati, Iowa. Conveyer. No. 1,130,458; Mar. 2; Gaz. vol. 212; p. 216.
- Wygodsky Engine Company. (See Wygodsky, Leon, assignor.)
- Wygodsky, Leon, assignor to Wygodsky Engine Company, New York, N. Y. Valve and valve-gear of internal-combustion engines. No. 1,156,123; Oct. 12; Gaz. vol. 219; p. 304.
- Wylde, Edward, New York, N. Y., and C. Schenck, assignors to Elevator Supply & Repair Company, Chicago, Ill. Door-controlling device. (Reissue.) No. 13,932; June 15; Gaz. vol. 215; p. 964.
- Wylie, Anna, Rockville Center, N. Y. Undergarment. No. 1,154,280; Sept. 21; Gaz. vol. 218; p. 746.
- Wyman, Edward H., Aiken, S. C. Aeroplane. No. 1,128,395; Feb. 16; Gaz. vol. 211; p. 694.
- Wyman, George R. (See Bird and Wyman.)
- Wyman, George R., assignor to C. S. Bird, East Walpole, Mass. Apparatus for supplying waterproofing material to paper. No. 1,152,136; Aug. 31; Gaz. vol. 217; p. 1548.
- Wyman, George R., assignor to C. S. Bird, East Walpole, Mass. Heating waterproofing material and supplying the same to paper. No. 1,165,367; Dec. 21; Gaz. vol. 221; p. 1006.
- Wyman, Horace, Worcester, Mass. Photographic-film package. (Reissue.) No. 13,871; Jan. 19; Gaz. vol. 210; p. 1042.
- Wyman, Horace, Worcester, Mass. Photographic-film package. No. 1,132,993; Mar. 23; Gaz. vol. 212; p. 1235.
- Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing loom. No. 1,142,743; June 8; Gaz. vol. 215; p. 614.
- Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pattern-card-repeating machine. No. 1,161,368; Nov. 23; Gaz. vol. 220; p. 1176.
- Wyman, Horace, and A. F. Morell, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,150,477; Aug. 17; Gaz. vol. 217; p. 875.
- Wyman, Horace B., Minneapolis, Minn. Carbureter. No. 1,133,904; Mar. 30; Gaz. vol. 212; p. 1595.
- Wyman, William H., Oshkosh, Wis. Button-attaching machine. No. 1,142,004; June 8; Gaz. vol. 215; p. 359.
- Wymer, Charles J., Chicago, Ill. Split key. No. 1,160,807; Nov. 16; Gaz. vol. 220; p. 931.
- Wymore, Cass A., Long Beach, Cal. Automatic fish-hook striker. No. 1,148,810; Aug. 3; Gaz. vol. 217; p. 118.
- Wymore, Joseph, Seattle, Wash. Parcel-post mail-box. No. 1,150,409; Aug. 17; Gaz. vol. 217; p. 851.
- Wyne, L. E. (See Sieben, Henry, assignor.)
- Wynn, John, Jr., Canton, assignor to Climax Manufacturing Company, Cleveland, Ohio. Suction-machine. No. 1,165,562; Dec. 28; Gaz. vol. 221; p. 1111.
- Wynne, William P., Fort Worth, Tex. Attachment for converting motor-propelled vehicles into tractors. No. 1,147,131; July 20; Gaz. vol. 216; p. 794.
- Wyson, Olmedo C., Greensboro, N. C. Dovetailing mechanism. No. 1,166,299; Dec. 28; Gaz. vol. 221; p. 1375.
- Wyszatycki, Gzregor, Johnstown, Pa. Rail chair and joint. No. 1,128,647; Feb. 16; Gaz. vol. 211; p. 782.
- Wyszywaniuk, Teodor, Chester, Pa. Sliding-jaw wrench. No. 1,125,788; Jan. 19; Gaz. vol. 210; p. 994.
- Wyttenbach, Edward. (See Setzer, Richard, assignor.)
- X. L. Electric Company Limited. (See Aron, Leonard J., assignor.)
- Yablonski, John, et al. (See Pionkowski, John, assignor.)
- Yager, John J., Sheridan, Wyo. Compressed-gas heater. No. 1,162,537; Nov. 30; Gaz. vol. 220; p. 1628.
- Yager, Samuel S., and C. B. Hebbard, Joplin, Mo.; said Hebbard assignor to said Yager. Pocket safety device. No. 1,149,242; Aug. 10; Gaz. vol. 217; p. 371.
- Yaggl, Joseph. (See Roth, Charles, assignor.)
- Yahle, William J., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Pedal. No. 1,144,518; June 29; Gaz. vol. 215; p. 1328.
- Yakus, Martin, South Akron, Ohio. Padlock. No. 1,133,523; Mar. 30; Gaz. vol. 212; p. 1459.
- Yakushiji, Kaneichi, Paradise, Mont. Potato-peeler. No. 1,154,472; Sept. 21; Gaz. vol. 218; p. 812.
- Yale & Towne Manufacturing Company, The. (See Crouch, Thomas E., assignor.)
- Yale & Towne Manufacturing Company, The. (See Erichson, Charles A., assignor.)
- Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Miller, Charles A., assignor.)
- Yale & Towne Manufacturing Company, The. (See Schoell, Reinhold, assignor.)
- Yale & Towne Manufacturing Company, The. (See Taylor, Warren H., assignor.)
- Yamada, William, and G. K. Suzuki, Oakland, Cal. Window-cleaning attachment. No. 1,162,122; Nov. 30; Gaz. vol. 220; p. 1485.
- Yamamoto, Yukinobu, St. Louis, Mo. Shade. No. 1,140,092; May 18; Gaz. vol. 214; p. 909.
- Yamasaki, Homa, Essex, Mont. Folding cabinet. No. 1,149,012; Aug. 3; Gaz. vol. 217; p. 187.
- Yandle, Frederick J., Santa Rosa, Cal. Prune-dipping machine. No. 1,130,127; Mar. 2; Gaz. vol. 212; p. 99.
- Yandle, Frederick J., Santa Rosa, Cal. Prune grader, cleaner, and spreader. No. 1,162,123; Nov. 30; Gaz. vol. 220; p. 1486.
- Yanney, George W., Alliance, and E. F. Oyster, East Cleveland, Ohio. Safety-brake for automobiles. No. 1,144,877; June 29; Gaz. vol. 215; p. 1452.
- Yant, Charles L., Falls City, Neb. Ironing-board. No. 1,160,808; Nov. 16; Gaz. vol. 220; p. 931.
- Yarbro, Robert L., et al. (See Pursselley, James, assignor.)
- Yard, Edward J., and W. E. Davis, Knoxville, Tenn. Sand-trap. No. 1,147,587; July 20; Gaz. vol. 216; p. 954.
- Yardley, John H. R. (See Siedle and Yardley.)
- Yardley, John L. M. (See Lamme and Yardley.)
- Yardley, John O., Stockton, Cal. Sash-lock. No. 1,134,572; Apr. 6; Gaz. vol. 213; p. 178.
- Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Automatic meter control. No. 1,143,344; June 15; Gaz. vol. 215; p. 868.
- Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Weir-meter construction and inlet regulation. No. 1,159,147; Nov. 2; Gaz. vol. 220; p. 254.
- Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Combined feed-water heater and weir-meter. No. 1,159,148; Nov. 2; Gaz. vol. 220; p. 255.
- Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Water control for gravity-meters. No. 1,159,149; Nov. 2; Gaz. vol. 220; p. 255.
- Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Inlet-water regulator for weir-meter construction. No. 1,159,150; Nov. 2; Gaz. vol. 220; p. 256.
- Yarnall-Waring Company. (See Yarnall, David R., assignor.)
- Yarrow, Harold E., Scotstown, Glasgow, Scotland. Superheater for water-tube boilers. No. 1,143,476; June 15; Gaz. vol. 215; p. 915.
- Yates, Allen, Hinsdale, N. Y. Metallic railway-tie. No. 1,162,326; Nov. 30; Gaz. vol. 220; p. 1556.
- Yates, George W., Grifflinsburg, Va. Axle construction. No. 1,143,477; June 15; Gaz. vol. 215; p. 915.
- Yates, Harry D., Washington, D. C. Fuel-controlling device. No. 1,158,094; Oct. 26; Gaz. vol. 219; p. 1087.
- Yates, Jack, and C. Heyes, St. Helens, England. Safety device or arrester for colliery winding-cages, hoists, and the like. No. 1,127,713; Feb. 9; Gaz. vol. 211; p. 406.
- Yates, Odaville, Sr., Portland, Oreg. Guard for cords of wires of telephone sets. No. 1,164,563; Dec. 14; Gaz. vol. 221; p. 684.

Alphabetical list of patentees—Continued.

- Yates, Robert, Passaic, N. J. Surveying instrument. No. 1,145,050; July 6; Gaz. vol. 216; p. 28.
- Yaukey, Jeremiah S., Fayetteville, Pa. Lath and bolting saw mill. No. 1,162,538; Nov. 30; Gaz. vol. 220; p. 1628.
- Yaw, Clio B., Arlington, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Iliou, N. Y. Type-writing and adding machine and means for automatically operating the same. No. 1,124,378; Jan. 12; Gaz. vol. 210; p. 454.
- Yaw, Clio B., Arlington, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,138,920; May 11; Gaz. vol. 214; p. 458.
- Yaw, Clio B., Arlington, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,141,857; June 1; Gaz. vol. 215; p. 268.
- Yaw, Clio B., Arlington, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,142,005; June 8; Gaz. vol. 215; p. 359.
- Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,152,463; Sept. 7; Gaz. vol. 218; p. 28.
- Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,157,276; Oct. 19; Gaz. vol. 219; p. 738.
- Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 1,161,915; Nov. 30; Gaz. vol. 220; p. 1411.
- Yawman & Erbe Manufacturing Company. (See Weiss, Albert T., assignor.)
- Ye Lady's Outfitterie. (See Perillat, Marie, assignor.)
- Yeager, Margaret S., Honey Grove, Tex. Necktie-retainer. No. 1,132,416; Mar. 16; Gaz. vol. 212; p. 974.
- Yeager, Peter. (See Gimpel and Yeager.)
- Yeager, Philip, Oran, Iowa. Road-grader. No. 1,155,862; Oct. 5; Gaz. vol. 219; p. 188.
- Yeager, Thomas C., Canton, Mo. Bottle wiper or drier. No. 1,164,156; Dec. 14; Gaz. vol. 221; p. 542.
- Yeagle, Otto A., Ava, Ohio. Rail-fastener. No. 1,138,714; May 11; Gaz. vol. 214; p. 385.
- Yeakel, John B., Center Valley, Pa. Chicken-feeder. No. 1,127,572; Feb. 9; Gaz. vol. 211; p. 357.
- Yeakley, Melvin A., Canton, Ohio. Power-transmitting mechanism. No. 1,145,451; July 6; Gaz. vol. 216; p. 167.
- Yeakley, Melvin A., assignor to J. E. McLain, Canton, Ohio. Antifriction-bearing. No. 1,141,675; June 1; Gaz. vol. 215; p. 209.
- Yeakley, Melvin A., assignor to J. E. McLain, Canton, Ohio. Trolley-retriever. No. 1,143,875; June 22; Gaz. vol. 215; p. 1075.
- Yeakley, Melvin A., assignor to J. E. McLain, Canton, Ohio. Trolley-catcher. No. 1,146,833; July 20; Gaz. vol. 216; p. 689.
- Yeakley, Melvin A., assignor to J. E. McLain, Canton, Ohio. Trolley-catcher. No. 1,146,834; July 20; Gaz. vol. 216; p. 690.
- Yeakley, Melvin A., assignor to J. E. McLain, Canton, Ohio. Trolley-catcher. No. 1,146,835; July 20; Gaz. vol. 216; p. 690.
- Yeakley, Melvin A., Kamms, assignor to J. E. McLain, Canton, Ohio. Trolley retriever or safety device. No. 1,143,874; June 22; Gaz. vol. 215; p. 1075.
- Yearicks, Fenton, Cape May Court-House, N. J. Drinking-cup dispenser. No. 1,128,566; Feb. 16; Gaz. vol. 211; p. 755.
- Yearley, Wesley M., Baltimore, Md. Ice-cream scraper. No. 1,146,541; July 13; Gaz. vol. 216; p. 570.
- Yeastman, John A., assignor to United Iron Works, Oakland, Cal. Ice-making machinery. No. 1,151,985; Aug. 31; Gaz. vol. 217; p. 1496.
- Yeatman, John A., Oakland, Cal., assignor to United Iron Works. End-thrust counterbalance for centrifugal pumps and other machinery. No. 1,165,739; Dec. 28; Gaz. vol. 221; p. 1176.
- Yeatman, Walter C., Chicago, Ill. Expansion-bolt. No. 1,164,322; Dec. 14; Gaz. vol. 221; p. 600.
- Yela, Marie W., Kendallville, Ind. Clothes-rack. No. 1,154,083; Sept. 21; Gaz. vol. 218; p. 679.
- Yelin, Adolph, and J. O. Houser, Buffalo, N. Y. Fitting-platform for ladies' garments. No. 1,131,101; Mar. 9; Gaz. vol. 212; p. 471.
- Yelinek, Emil E., Clutier, Iowa. Show-case. No. 1,155,863; Oct. 5; Gaz. vol. 219; p. 188.
- Yellen, Stanley J., Great Neck, N. Y. Miner's lamp. No. 1,136,303; Apr. 20; Gaz. vol. 213; p. 869.
- Yellowley, William, Kingston, Ontario, Canada. Machine for painting and drying projectiles. No. 1,153,529; Sept. 14; Gaz. vol. 218; p. 452.
- Yellowley, William, Kingston, Ontario, Canada. Driving-band and nosing-press for projectiles. No. 1,162,841; Dec. 7; Gaz. vol. 221; p. 39.
- Yemiker, John, et al. (See Bacher, Peter, assignor.)
- Yeomans, Lucien I., assignor to Amalgamated Machinery Corporation, Chicago, Ill. Lathe or the like. No. 1,154,155; Sept. 21; Gaz. vol. 218; p. 703.
- Yergens, William F., Huntington, Ind. Valve. No. 1,166,300; Dec. 28; Gaz. vol. 221; p. 1376.
- Yerger, Charles W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,157,277; Oct. 19; Gaz. vol. 219; p. 739.
- Yetter, Edward J., Denver, Colo. Roofing-cleat. No. 1,148,647; Aug. 3; Gaz. vol. 217; p. 59.
- Yiakas, Esidoros, Wheeling, W. Va. Egg-beater. No. 1,164,443; Dec. 14; Gaz. vol. 221; p. 643.
- Yingling, Frank B., Hamilton, Ohio. Recoil-checking mechanism for ordnance. (Reissue.) No. 13,938; June 22; Gaz. vol. 215; p. 1248.
- Yoakum, Hugh D., Waco, Tex., assignor of one-fourth to J. K. Greer, Allen, Okla. Switch mechanism. No. 1,130,459; Mar. 2; Gaz. vol. 212; p. 217.
- Yockel, Frederick C. (See Ries, Brown, and Yockel.)
- Yocom, William S., et al. (See Schaffer, Martin R., assignor.)
- Yoder, Frederick S., Wernersville, Pa. Dental chip-blower. No. 1,166,033; Dec. 28; Gaz. vol. 221; p. 1276.
- Yoder, Jonas A. (See Thomas and Yoder.)
- Yohn, Ambrose E., et al. (See Boudwin, Edward H., assignor.)
- Yoho, Homer, Lore City, Ohio. Stove-lid lifter. No. 1,166,301; Dec. 28; Gaz. vol. 221; p. 1376.
- Yokley, David, Thomasville, N. C. Stalk-cutter attachment. No. 1,147,588; July 20; Gaz. vol. 216; p. 955.
- Yonts, Morton K., Louisville, Ky. Suspender-clasp. No. 1,142,132; June 8; Gaz. vol. 215; p. 405.
- Yoran, William C., Eugene, Ore. Measuring instrument. No. 1,162,276; Nov. 30; Gaz. vol. 220; p. 1539.
- Yordi, Arthur H. W., Clintonville, Wis. Motor-cycle. No. 1,139,622; May 18; Gaz. vol. 214; p. 742.
- York, Lorne M. (See Merriam and York.)
- York Street Flax Spinning Company Limited et al. (See Cotton, Kennedy, and King, assignors.)
- Yorke, Horace M., Freeport, Me. Letter-opener. No. 1,157,489; Oct. 19; Gaz. vol. 219; p. 813.
- Yost, Claude, Greenwich, Conn. Rifle-cleaner. No. 1,164,564; Dec. 14; Gaz. vol. 221; p. 684.
- Yost, David, Swanton, Nebr. Subsoiler attachment. No. 1,162,842; Dec. 7; Gaz. vol. 221; p. 39.
- Yost, Donald H., York, Pa. Spark-plug. No. 1,132,060; Mar. 16; Gaz. vol. 212; p. 844.
- Yost Electric Manufacturing Company, The. (See Gordon, David D., assignor.)
- Yost, Joseph E. (See Wobbe and Yost.)
- Yost Writing Machine Company. (See Turner, Samuel W., assignor.)
- Youmans, Benjamin P., Vancouver, Wash. Lock for two relatively movable levers. No. 1,140,431; May 25; Gaz. vol. 214; p. 1061.
- Youmans, George P., Galesburg, assignor to Kalamazoo Tank and Silo Co., Kalamazoo, Mich. Silo. No. 1,151,644; Aug. 31; Gaz. vol. 217; p. 1378.
- Young, Arthur A. (See Leonard, Carl W., assignor.)
- Young, Arthur P., Dovedale, near Rugby, England, assignor to General Electric Company. Electrical measuring instruments. No. 1,164,246; Dec. 14; Gaz. vol. 221; p. 572.
- Young, August, New York, N. Y. Equalizing device for music-rolls of piano-players. No. 1,127,343; Feb. 2; Gaz. vol. 211; p. 236.
- Young, August, New York, N. Y. Governor-bellows for player-pianos and the like. No. 1,146,542; July 13; Gaz. vol. 216; p. 570.
- Young, August, New York, N. Y. Pneumatic power device. No. 1,164,247; Dec. 14; Gaz. vol. 221; p. 572.
- Young, August, New York, N. Y. Folding pedal for musical instruments. No. 1,164,248; Dec. 14; Gaz. vol. 221; p. 573.
- Young, August V., Logcabin, Colo. Detachable handle. No. 1,133,420; Mar. 30; Gaz. vol. 212; p. 1422.
- Young, Carl J., Seattle, Wash. Dumping-truck. No. 1,157,749; Oct. 26; Gaz. vol. 219; p. 966.
- Young, Charles B., Aurora, and G. G. Gilpin, Riverside, Ill. Draft-rigging for railway-cars. No. 1,130,051; Mar. 2; Gaz. vol. 212; p. 73.
- Young, Charles D., Altoona, Pa. Brake-shoe. No. 1,124,379; Jan. 12; Gaz. vol. 210; p. 454.
- Young, Charles D., Altoona, Pa. Drying apparatus for railway-vehicles. No. 1,132,142; Mar. 16; Gaz. vol. 212; p. 874.
- Young, Charles D., Altoona, Pa. Superheater. No. 1,135,422; Apr. 13; Gaz. vol. 213; p. 517.
- Young, Charles D., Pittsburgh, Pa. Automatic stoker mechanism. No. 1,156,854; Oct. 12; Gaz. vol. 219; p. 559.
- Young, Charles D., Pittsburgh, Pa. Transfer mechanism. No. 1,160,355; Nov. 16; Gaz. vol. 220; p. 769.
- Young, Charles H. (See Craven, Young, and Cliffe.)
- Young, Daniel W., Jr. (See Schoff, Young, and Dobrick.)
- Young, David L. (See Young, Jacob A. and D. L.)
- Young, Earle, Spokane, Wash. Gasoline-meter. No. 1,148,943; Aug. 3; Gaz. vol. 217; p. 162.
- Young, Edgar C. (See Haney and Young.)
- Young, Edward, Pony Lake, Nebr. Mechanical stoker for locomotives. No. 1,148,735; Aug. 3; Gaz. vol. 217; p. 91.
- Young, Edward L., and H. N. Miller, Detroit, Mich. Wringer-guard. No. 1,136,387; Apr. 20; Gaz. vol. 213; p. 899.

- Young, Edward T., Milton, Mass. Generating and controlling pressure. No. 1,165,826; Dec. 28; Gaz. vol. 221; p. 1205.
- Young, Edwin J., and A. D. Welker, assignors to The Ohio Match Company, Wadsworth, Ohio. Machine for impregnating match-sticks. No. 1,129,032; Feb. 16; Gaz. vol. 211; p. 918.
- Young, Eli, assignor of one-half to J. Johnson, East Auburn, Cal. Wire-stretcher and buggy-jack. No. 1,151,323; Aug. 24; Gaz. vol. 217; p. 1222.
- Young, Elmer L., Holder, Ill. Carrier for baled straw and the like. No. 1,150,320; Aug. 17; Gaz. vol. 217; p. 820.
- Young, Ethel P. (See Mitchell, John F., assignor.)
- Young, Flavius J., assignor to W. G. Burns, Fort Wayne, Ind. Measuring-pump. No. 1,143,158; June 15; Gaz. vol. 215; p. 802.
- Young, Francis L., assignor to Aeolian Company, New York, N. Y. Combined tempo and dynamics controller for pneumatic musical-instrument players. No. 1,159,461; Nov. 9; Gaz. vol. 220; p. 400.
- Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,139,946; May 18; Gaz. vol. 214; p. 856.
- Young, Frank H. (See Young, William W., assignor.)
- Young, Frank W., Providence, R. I. Cuff-link. No. 1,156,651; Oct. 12; Gaz. vol. 219; p. 488.
- Young, Franklin K., Winthrop Highlands, Mass. Firearm. No. 1,157,750; Oct. 26; Gaz. vol. 219; p. 966.
- Young, Frederick, Celoron, N. Y. Curtain-fixture. No. 1,128,396; Feb. 16; Gaz. vol. 211; p. 695.
- Young, Frederick V., Lyndhurst, N. J., assignor to Western Electric Company, New York, N. Y. Telephone system. No. 1,128,930; Feb. 16; Gaz. vol. 211; p. 882.
- Young, George A. (See Tiffany and Young.)
- Young, George D., New York, N. Y. Handsaw. No. 1,151,078; Aug. 24; Gaz. vol. 217; p. 1139.
- Young, George W. (See Robinson, Young, and Showalter.)
- Young, Hanby L. (See McPherson, Samuel E., assignor.)
- Young, Harry W., Chicago, Ill. Electrical fuse. No. 1,165,563; Dec. 28; Gaz. vol. 221; p. 1112.
- Young, Harvey L., Dayton, Ohio. Floor-planing machine. No. 1,137,105; Apr. 27; Gaz. vol. 213; p. 1191.
- Young, Henry D., Portland, Oreg. Nebulizer. No. 1,148,270; July 27; Gaz. vol. 216; p. 1222.
- Young, Herman H., and H. H. Donovan, Riverside, R. I. Automatic train-stop. No. 1,127,147; Feb. 2; Gaz. vol. 211; p. 170.
- Young, Homer J., Cincinnati, Ohio. Fiber process. No. 1,146,987; July 20; Gaz. vol. 216; p. 745.
- Young, Horace G., Yonkers, assignor of one-fourth to A. Nachmann, New York, N. Y. Non-refillable bottle. No. 1,125,625; Jan. 19; Gaz. vol. 210; p. 934.
- Young, Ira J., assignor to Western Wire Products Company, St. Louis, Mo. Automatic machinery for making split pins. No. 1,151,645; Aug. 31; Gaz. vol. 217; p. 1379.
- Young, Jacob A. and D. L., Santa Cruz, Cal. Cushioning means for vehicles. No. 1,149,882; Aug. 10; Gaz. vol. 217; p. 602.
- Young, James H., Paterson, N. J. Mechanical movement. No. 1,138,715; May 11; Gaz. vol. 214; p. 386.
- Young, Jesse S., Chicago, Ill. Belting and making the same. No. 1,148,883; Aug. 3; Gaz. vol. 217; p. 142.
- Young, Jesse S., Toledo, Ohio. Stretching-machine. No. 1,162,008; Nov. 30; Gaz. vol. 220; p. 1444.
- Young, John, and J. H. Geier, Gallion, Ohio. Grave-vault. No. 1,125,626; Jan. 19; Gaz. vol. 210; p. 934.
- Young, John F., West Bradford, Pa. Twine-tying device. No. 1,151,231; Aug. 24; Gaz. vol. 217; p. 1192.
- Young, John M., San Francisco, Cal. Can-body. No. 1,157,278; Oct. 19; Gaz. vol. 219; p. 739.
- Young, John M., San Francisco, Cal. Grader. No. 1,157,279; Oct. 19; Gaz. vol. 219; p. 739.
- Young, John M., assignor to American Can Company, San Francisco, Cal. Can-body blank. No. 1,124,682; Jan. 12; Gaz. vol. 210; p. 564.
- Young, John M., assignor to American Can Company, San Francisco, Cal. Apparatus for cutting and depositing ring-liners onto the flange of can-covers. No. 1,135,244; Apr. 13; Gaz. vol. 213; p. 455.
- Young, Judson O., Springfield, Mass. Clothes-line support. No. 1,145,536; July 6; Gaz. vol. 216; p. 196.
- Young, Laurence C., Montgomery, assignor to Continental Gin Company, Birmingham, Ala. Baling-press-retainer lock. No. 1,149,243; Aug. 10; Gaz. vol. 217; p. 371.
- Young, Leonard A., Detroit, Mich. Vehicle-wheel. No. 1,125,627; Jan. 19; Gaz. vol. 210; p. 934.
- Young, Leonard A., Detroit, Mich. Upholstery spring construction. No. 1,137,106; Apr. 27; Gaz. vol. 213; p. 1192.
- Young, Leonard A., Detroit, Mich. Spring construction. No. 1,146,836; July 20; Gaz. vol. 216; p. 691.
- Young, Leonard A., Detroit, Mich. Spring-frame construction. No. 1,155,391; Oct. 5; Gaz. vol. 219; p. 23.
- Young, Leonard A., Detroit, Mich. Spring structure. No. 1,155,392; Oct. 5; Gaz. vol. 219; p. 24.
- Young, Leonard A., Highland Park, Mich. Wheel. No. 1,156,124; Oct. 12; Gaz. vol. 219; p. 304.
- Young, Leonard A., Highland Park, Mich. Sheathing of spokes. No. 1,165,056; Dec. 21; Gaz. vol. 221; p. 897.
- Young, Lester J., Oswego, Ill., assignor to Loudon Machinery Company, Fairfield, Iowa. Stanchion. No. 1,145,452; July 6; Gaz. vol. 216; p. 167.
- Younie, Lewis E. (See Ball and Younie.)
- Young, Louis M., Boston, Mass. Foot-retainer for motor-vehicles. No. 1,152,257; Aug. 31; Gaz. vol. 217; p. 1589.
- Young, Lowell A. (See Armor and Young.)
- Young, Marion F., Plainview, Tex. Resilient wheel. No. 1,133,354; Mar. 30; Gaz. vol. 212; p. 1399.
- Young, McVea. (See Browne, Allan M., assignor.)
- Young, Nathaniel, and G. E. Marston, Manchester, N. H. Siphon-vacuum steam-heating system. No. 1,123,643; Jan. 5; Gaz. vol. 210; p. 152.
- Young, Oliver H., Brooklyn, N. Y. Antiskidding device for vehicles. No. 1,141,676; June 1; Gaz. vol. 215; p. 210.
- Young, Paul T., Los Angeles, Cal. Means for tuning sound-producing bars or tubes. No. 1,140,932; May 25; Gaz. vol. 214; p. 1239.
- Young, Robert, Sheboygan, Wis. Lighting. No. 1,143,011; June 15; Gaz. vol. 215; p. 751.
- Young, Rush, Veedersburg, Ind. Vehicle top raising and lowering mechanism. No. 1,149,013; Aug. 3; Gaz. vol. 217; p. 188.
- Young, Samuel D., trustee. (See Frazier and Gustafson, assignors.)
- Young, Samuel M., and F. Townsend, New York, N. Y., assignors to said Young. Electric signaling system. No. 1,154,588; Sept. 21; Gaz. vol. 218; p. 852.
- Young, Thomas H., Salt Lake City, Utah. Automobile-tire. No. 1,146,381; July 13; Gaz. vol. 216; p. 512.
- Young, William C., Fontana, Kans. Airship. No. 1,128,648; Feb. 16; Gaz. vol. 211; p. 783.
- Young, William J., assignor to W. J. Young Machinery Company, Lynn, Mass. Machine for forming outturned shoe-uppers. No. 1,165,482; Dec. 28; Gaz. vol. 221; p. 1084.
- Young, William M., Victoria, British Columbia, Canada. Ship. No. 1,155,028; Sept. 28; Gaz. vol. 218; p. 1029.
- Young, William R., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Hinge-pin fastening. No. 1,161,573; Nov. 23; Gaz. vol. 220; p. 1247.
- Young, William W., Agawam, Mass., assignor to F. H. Young, St. Louis, Mo. Acoustic diaphragm. No. 1,153,837; Sept. 14; Gaz. vol. 218; p. 560.
- Young, Willie E., and W. R. Glancy, Pittsburg, Kans. Guard and rerailing device for railways. No. 1,126,155; Jan. 26; Gaz. vol. 210; p. 1157.
- Youngberg, Alfred F., et al. (See Bergren, John A., assignor.)
- Youngblood, Daniel B., Charlotte, Mich. Hoisting-bucket. No. 1,128,397; Feb. 16; Gaz. vol. 211; p. 695.
- Younger, James H. (See Johnson and Younger.)
- Younger, John, assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Hand or steering wheel. No. 1,142,780; June 8; Gaz. vol. 215; p. 630.
- Youngkin, Owen, Richfield, and H. H. Hicks, Weiser, Idaho. Potato-digger. No. 1,129,939; Mar. 2; Gaz. vol. 212; p. 37.
- Youngkvist, Amandus W., Duluth, Minn. Vehicle direction-indicator. No. 1,140,229; May 18; Gaz. vol. 214; p. 955.
- Younglove, Wilbur N., Richmond, Cal. Transmission mechanism. No. 1,164,444; Dec. 14; Gaz. vol. 221; p. 644.
- Youngman, Charles A., Louisville, Ky. Filter. No. 1,131,456; Mar. 9; Gaz. vol. 212; p. 595.
- Youngquist, Emil, Duluth, Minn. Weather-strip for doors. No. 1,149,108; Aug. 3; Gaz. vol. 217; p. 218.
- Youngs, Fred E., assignor of one-half to J. W. Hubbard, Detroit, Mich. Expandable band. No. 1,138,605; May 4; Gaz. vol. 214; p. 308.
- Youngstown Iron & Steel Company, The. (See Smith, Archie, assignor.)
- Youngstown Sheet and Tube Company, The. (See Coey, Stewart C., assignor.)
- Youngstown Sheet and Tube Company, The. (See Neckerman, William M., assignor.)
- Youngstown Sheet and Tube Company, The. (See Woodside, Daniel E. B., assignor.)
- Younis, Tobias, Concho, Ariz. Sectional supporting-pole. No. 1,138,826; May 11; Gaz. vol. 214; p. 426.
- Yount, Jesse M., San Francisco, Cal. Two-piece welded brake-shoe. No. 1,127,841; Feb. 9; Gaz. vol. 211; p. 454.
- Ysskin, Herman, Newark, N. J. Wrench. No. 1,140,862; May 25; Gaz. vol. 214; p. 1212.
- Yudelson, Alexander C., Chicago, Ill. Convertible coat and jacket. No. 1,125,789; Jan. 19; Gaz. vol. 210; p. 994.
- Yuill, James, assignor of one-third to W. H. T. Stevens, Toronto, Ontario, and one-third to L. Rahne, Fort George, British Columbia, Canada. Snap electric-light switch. No. 1,143,876; June 22; Gaz. vol. 215; p. 1076.
- Yulke, Edward F., assignor to Continental Paper Bag Company, New York, N. Y. Egg-carton carrier. No. 1,158,095; Oct. 26; Gaz. vol. 219; p. 1087.
- Yurov, Andrew, New York, N. Y. Electric-railway system. No. 1,140,093; May 18; Gaz. vol. 214; p. 910.

Alphabetical list of patentees—Continued.

- Yurow, Andrew, New York, N. Y. Plow for electric conduit-railways. No. 1,140,094; May 18; Gaz. vol. 214; p. 910.
- Yurow, Andrew, New York, N. Y. Switch for electric conduit-railways. No. 1,140,230; May 18; Gaz. vol. 214; p. 955.
- Zaar, Ludwig W., assignor of one-third to M. M. Modell and one-third to J. Ubelaker, Chicago, Ill. Bottle-closure. No. 1,129,618; Feb. 23; Gaz. vol. 211; p. 1160.
- Zabel, Max W., trustee. (See Borresen, Helge A., assignor.)
- Zabel, William, Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Keyboard for printing-telegraph apparatus. No. 1,137,044; Apr. 27; Gaz. vol. 213; p. 1169.
- Zabriskie, Henry L., Westfield, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Centrifugal switch. No. 1,155,985; Oct. 5; Gaz. vol. 219; p. 228.
- Zacconi, Henri. (See Savye and Zacconi.)
- Zacharias, Edwin H. (See Ermentrout and Zacharias.)
- Zachert, Victor I., San Francisco, and P. A. Brangier, Agnew, assignors of one-third to V. G. Bonaly, San Francisco, Cal. Apparatus for extracting precious metals. No. 1,160,485; Nov. 16; Gaz. vol. 220; p. 814.
- Zachow, Otto, assignor to Four Wheel Drive Auto Company, Clintonville, Wis. Driving and steering axle. No. 1,153,281; Sept. 14; Gaz. vol. 218; p. 361.
- Zagora, Joseph, Racine, Wis. Combined fluid transmission and differential. No. 1,150,478; Aug. 17; Gaz. vol. 217; p. 875.
- Zahm, Edward, assignor to Zahm Manufacturing Company, Buffalo, N. Y. Filter. No. 1,153,282; Sept. 14; Gaz. vol. 218; p. 361.
- Zahm Manufacturing Company. (See Zahm, Edward, assignor.)
- Zahn, Oskar, Berlin, Germany. Muffle-furnace for enameling. No. 1,124,380; Jan. 12; Gaz. vol. 210; p. 454.
- Zahn, Robert, deceased; A. Rietzsch, administrator, Plauen, Germany. Tambour-frame-counterbalancing mechanism. No. 1,124,572; Jan. 12; Gaz. vol. 210; p. 524.
- Zahn, Robert, deceased, Plauen, Germany; A. Rietzsch, administrator. Fabric-frame-motion mechanism. No. 1,127,148; Feb. 2; Gaz. vol. 211; p. 171.
- Zahn, Robert, deceased, Plauen, Germany; A. Rietzsch, administrator. Shuttle embroidering-machine. No. 1,137,826; May 4; Gaz. vol. 214; p. 36.
- Zahn, Robert, deceased; A. Rietzsch, administrator, Plauen, Germany. Fabric-tension mechanism for embroidering-machines. No. 1,148,811; Aug. 3; Gaz. vol. 217; p. 118.
- Zahn, Robert, deceased; A. Rietzsch, administrator, Plauen, Germany. Presser-finger-operating mechanism for embroidering-machines. No. 1,158,096; Oct. 26; Gaz. vol. 219; p. 1088.
- Zahn, Robert, deceased, Plauen, Germany; A. Rietzsch, administrator. Embroidering-machine. No. 1,162,009; Nov. 30; Gaz. vol. 220; p. 1445.
- Zahner, Susie, Bates, Idaho. Treating animal fats. No. 1,123,644; Jan. 5; Gaz. vol. 210; p. 153.
- Zahniser, Valentine O., Washington, Pa. Bull-wheel. No. 1,143,012; June 15; Gaz. vol. 215; p. 751.
- Zahniser, Valentine O., Washington, Pa. Band-wheel. No. 1,143,013; June 15; Gaz. vol. 215; p. 752.
- Zahorik, Frank, Racine, Wis. Dial test-indicator. No. 1,152,686; Sept. 7; Gaz. vol. 218; p. 113.
- Zaiss, Alma A., Kansas City, Mo. Commercial talking-machine. No. 1,139,947; May 18; Gaz. vol. 214; p. 856.
- Zajac, Leon, Punksutawney, assignor of one-half to M. Marszalek, Plumville, Pa. Door-lock. No. 1,127,714; Feb. 9; Gaz. vol. 211; p. 407.
- Zakim, Daved, New York, N. Y. Clip for pens, pencils, and similar articles. No. 1,162,843; Dec. 7; Gaz. vol. 221; p. 39.
- Zakit, Peter, Akron, Ohio. Mine-catcher. No. 1,138,525; May 4; Gaz. vol. 214; p. 281.
- Zakrzewski, Julian, and J. Karasinski, Detroit, Mich. Electric snap-switch. No. 1,154,473; Sept. 21; Gaz. vol. 218; p. 813.
- Zaleski, Frank, Somerville, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread cutter and clamp for buttonhole-sewing machines. No. 1,152,464; Sept. 7; Gaz. vol. 218; p. 28.
- Zaleski, Frank, Somerville, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,152,465; Sept. 7; Gaz. vol. 218; p. 29.
- Zaleski, Frank, Somerville, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,152,466; Sept. 7; Gaz. vol. 218; p. 29.
- Zaleski, Frank, Somerville, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread-cutting mechanism for sewing-machines. No. 1,153,148; Sept. 7; Gaz. vol. 218; p. 275.
- Zaleski, Frank, Somerville, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread-controlling device for sewing-machines. No. 1,163,579; Dec. 7; Gaz. vol. 221; p. 295.
- Zaleski, Frank, Somerville, assignor to The Reece Button Hole Machine Company, Boston, Mass. Combined clutch and stop-motion. No. 1,164,901; Dec. 21; Gaz. vol. 221; p. 843.
- Zalondek, Anton A., Capitol Hill, Okla. Cotton-gin. No. 1,155,188; Sept. 28; Gaz. vol. 218; p. 1087.
- Zamrsky, Adolph. (See Rowan and Zamrsky.)
- Zamzow, Augusta J., Baraboo, Wis. Draining device. No. 1,163,877; Dec. 14; Gaz. vol. 221; p. 445.
- Zancan, Ottavio, New York, N. Y. Vehicle-wheel. No. 1,133,779; Mar. 30; Gaz. vol. 212; p. 1552.
- Zang, Joseph E. (See Klorer, Charles F., assignor.)
- Zaninovich, Nicholas, Los Angeles, Cal. Dish-washing machine. No. 1,162,966; Dec. 7; Gaz. vol. 221; p. 81.
- Zanolli, Joseph, Pittsburgh, Pa. Trolley-guard. No. 1,155,695; Oct. 5; Gaz. vol. 219; p. 129.
- Zanone, Richard J., assignor to J. Zinsmeister, New Albany, Ind. Automatic scale. No. 1,148,271; July 27; Gaz. vol. 216; p. 1223.
- Zanone, Richard J., assignor to J. Zinsmeister, New Albany, Ind. Automatic scale. No. 1,152,868; Sept. 7; Gaz. vol. 218; p. 179.
- Zanotta, Armando, Milan, Italy. Electric-arc lamp. No. 1,130,460; Mar. 2; Gaz. vol. 212; p. 217.
- Zapf, Gustave A., New York, N. Y. Inhaling system. No. 1,129,619; Feb. 23; Gaz. vol. 211; p. 1160.
- Zaphyriades, S. D. (See Leslie, Bonnafor, assignor.)
- Zaradski, Michal, Carnegie, Pa. Elevator safety device. No. 1,165,929; Dec. 28; Gaz. vol. 221; p. 1240.
- Zarella, Antonio, Charlestown, Mass. Apparatus for moistening cigars and tobacco. No. 1,147,775; July 27; Gaz. vol. 216; p. 1046.
- Zarnowiecki, Bogumil, Gr. Lichterfelde, near Berlin, Germany. Manufacture of marbled paper. No. 1,152,467; Sept. 7; Gaz. vol. 218; p. 30.
- Zastrow, Albert H. (See Brockman and Conroy, assignors.)
- Zastrow, Charles W., Woods Hole, Mass. Evaporating apparatus. No. 1,124,096; Jan. 5; Gaz. vol. 210; p. 305.
- Zaug, Emil G. (See Courtois, Charles A., assignor.)
- Zavelberg, Albert, Hohenloehütte, Germany. Zinc-producing furnace. No. 1,136,304; Apr. 20; Gaz. vol. 213; p. 869.
- Zaweracz, Roman, Bentleyville, Pa. Knife-sharpener. No. 1,143,096; June 15; Gaz. vol. 215; p. 781.
- Zawericz, Roman, Bentleyville, Pa. Trolley-wheel mount. No. 1,136,199; Apr. 20; Gaz. vol. 213; p. 831.
- Zawistowski, Martin, D. Periman, and N. Komow, assignors to The U. S. Cloth Cutting Machine Co., Inc., New York, N. Y. Knife-guard for cloth-cutting machines. No. 1,147,690; July 20; Gaz. vol. 216; p. 990.
- Zduniewicz, Nicolas, Northampton, Mass. Ship-stabilizer. No. 1,130,235; Mar. 2; Gaz. vol. 212; p. 137.
- Zeagler, Bennie L., and C. L. Stryker, Lufkin, Tex. Car replacer and derail. No. 1,140,933; May 25; Gaz. vol. 214; p. 1239.
- Zee Socket & Mfg. Co., The. (See Both, Tonjes A. C., assignor.)
- Zeek, Charles F., Pensacola, Fla., assignor to The United Gas Improvement Company, Philadelphia, Pa. Manufacture of water-gas. No. 1,152,869; Sept. 7; Gaz. vol. 218; p. 180.
- Zega, Louis C., West Everett, assignor to A. F. Pray, Everett, Mass. Self-jacking vehicle. No. 1,166,398; Dec. 28; Gaz. vol. 221; p. 1411.
- Zeh, Edmund W., Newark, N. J. Power-press. No. 1,141,677; June 1; Gaz. vol. 215; p. 210.
- Zeh, Edmund W., Newark, N. J. Power-press. No. 1,151,845; Aug. 31; Gaz. vol. 217; p. 1448.
- Zehrun, Delburn W., Beatrice, Nebr. Combined scoop and dump-gate for wagons. No. 1,149,014; Aug. 3; Gaz. vol. 217; p. 188.
- Zeigler, William H. (See Schwabek, George G., assignor.)
- Zeiser, Gustav A., St. Louis, Mo. Ruling-machine. No. 1,138,716; May 11; Gaz. vol. 214; p. 386.
- Zeiss, Firm of Carl. (See Bauersfeld, Walther, assignor.)
- Zeiss, Firm of Carl. (See Eppenstein, Otto, assignor.)
- Zeiss, Firm of Carl. (See Henker, Otto, assignor.)
- Zeiss, Firm of Carl. (See Köhler, August, assignor.)
- Zeiss, Firm of Carl. (See König, Albert, assignor.)
- Zeiss, Firm of Carl. (See Mackensen, Otto, assignor.)
- Zeiss, Firm of Carl. (See Rohr, Moritz von, assignor.)
- Zeiss, Firm of Carl. (See Siedentopf, Henry, assignor.)
- Zeiss, Firm of Carl. (See Straubel, Rudolf, assignor.)
- Zeiss, Firm of Carl. (See Wild, Heinrich, assignor.)
- Zeitlin, Joseph, Fulham, London, England. Internal-combustion engine with variable piston-stroke. No. 1,160,966; Nov. 16; Gaz. vol. 220; p. 986.
- Zelenák, John, Battle Creek, Mich. Folding camp-table. No. 1,147,353; July 20; Gaz. vol. 216; p. 871.
- Zelinski, Henry, et al. (See Hohmann, Adolph, assignor.)
- Zellar, Frederick J., assignor of one-half to Dake Engine Co., Grand Haven, Mich. Engine. No. 1,144,276; June 22; Gaz. vol. 215; p. 1217.
- Zelle, William C., assignor to Plantation Equipment Company, St. Louis, Mo. Tractor. No. 1,130,363; Mar. 2; Gaz. vol. 212; p. 180.
- Zelle, William C., assignor to Plantation Equipment Company, St. Louis, Mo. Implement-holder for tilling-machines. No. 1,130,364; Mar. 2; Gaz. vol. 212; p. 181.

- Zeller, Clayton. (See Richards, Van Emburgh, and Zeller.)
- Zellers, Robert E., Tenino, Wash. Combined cigar clipper and lighter. No. 1,158,017; Oct. 26; Gaz. vol. 219; p. 1059.
- Zeltner, Josef. (See Neumann and Zeltner.)
- Zemlo, John C., Beaver Dam, Wis. Paper box. No. 1,155,986; Oct. 5; Gaz. vol. 219; p. 229.
- Zenger, Simon F., Covington, Pa. Poultry-feeder. No. 1,162,010; Nov. 30; Gaz. vol. 220; p. 1445.
- Zenke, Julius, Dakota, Minn. Cow-tail holder. No. 1,141,746; June 1; Gaz. vol. 215; p. 232.
- Zenker, Charles W. (See Frommer and Zenker.)
- Zens, J. P., et al. (See Andersen and Mink, assignors.)
- Zens, Joseph H., Milwaukee, Wis., assignor to Scott & Williams, Incorporated, Camden, N. J. Yarn-take-up mechanism for knitting-machines. No. 1,138,717; May 11; Gaz. vol. 214; p. 386.
- Zepp, William, New York, N. Y. Game apparatus. No. 1,158,413; Oct. 26; Gaz. vol. 219; p. 1199.
- Zeratsky, August W., La Crosse, Wis. Milking apparatus. No. 1,139,744; May 18; Gaz. vol. 214; p. 785.
- Zerk, Oscar, Cleveland, Ohio, assignor, by mesne assignments, to G. W. Bowen, Auburn, N. Y. Grease-cup. No. 1,138,526; May 4; Gaz. vol. 214; p. 281.
- Zerk, Oscar, Cleveland, Ohio, assignor, by mesne assignments, to G. W. Bowen, Auburn, N. Y. Grease-cup. No. 1,138,527; May 4; Gaz. vol. 214; p. 281.
- Zerk, Oscar, Cleveland, Ohio, assignor, by mesne assignments, to G. W. Bowen, Auburn, N. Y. Oilier. No. 1,160,234; Nov. 16; Gaz. vol. 220; p. 727.
- Zetsche, William A. (See Dutro, Leslie C., assignor.)
- Zevin, Harry. (See Zevin, Louis and H.)
- Zevin, Louis and H., New Britain, Conn. Curtain and shade-roller supporter. No. 1,147,354; July 20; Gaz. vol. 216; p. 871.
- Zevin, Louis and H., New Britain, Conn. Curtain and shade-roller holder. No. 1,147,355; July 20; Gaz. vol. 216; p. 871.
- Zgliczynski, Stephan, Baltimore, Md. Sectional boat. No. 1,127,842; Feb. 9; Gaz. vol. 211; p. 454.
- Zick, William E., Lakeview, Mich. Silo-elevator. No. 1,164,565; Dec. 14; Gaz. vol. 221; p. 684.
- Zieber, John, Drummond, Okla. Straw and grain separator. No. 1,147,911; July 27; Gaz. vol. 216; p. 1095.
- Ziebolz, Julius, Valdosta, Ga. Turpentine-still kettle. No. 1,157,139; Oct. 19; Gaz. vol. 219; p. 688.
- Zied, Samuel, Philadelphia, Pa. Movable derrick crane in connection with motor-trucks. No. 1,165,483; Dec. 28; Gaz. vol. 221; p. 1085.
- Zieg, Joseph, Lincoln, Nebr. Insulator clamp or bracket. No. 1,147,065; July 20; Gaz. vol. 216; p. 772.
- Ziegenberg, Rudolf, Berlin-Schoeneberg, assignor to J. Elster, Berlin, Germany. Electricity-meter. No. 1,156,964; Oct. 19; Gaz. vol. 219; p. 626.
- Ziegler, Albert H., Oshkosh, Wis. Governing and throttling device for internal-combustion engines. No. 1,142,219; June 8; Gaz. vol. 215; p. 435.
- Ziegler, Alfred A., trustee. (See Paige, Jeremiah A., assignor.)
- Ziegler, Alfred A., Boston, Mass. Circuit-wire terminal. No. 1,141,598; June 1; Gaz. vol. 215; p. 183.
- Ziegler, Alfred A., Boston, Mass. Bonding device for rails. No. 1,154,903; Sept. 28; Gaz. vol. 218; p. 987.
- Ziegler, Frank P., assignor to George Ziegler Co., Milwaukee, Wis. Chocolate-heater. No. 1,129,266; Feb. 23; Gaz. vol. 211; p. 1035.
- Ziegler, Henry M., and E. L. Wirtz, Plymouth, Wis. Rocking-chair attachment. No. 1,138,270; May 4; Gaz. vol. 214; p. 191.
- Ziegler, Joram, Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Tally attachment for type-writers. No. 1,146,382; July 13; Gaz. vol. 216; p. 512.
- Ziegler, Leslie I., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Sifter-drive. No. 1,155,633; Oct. 5; Gaz. vol. 219; p. 106.
- Ziegler, William C., assignor to Stecher Lithographic Company, Rochester, N. Y. Folding box. No. 1,144,746; June 29; Gaz. vol. 215; p. 1407.
- Ziehler, Bernard H. (See Nickol, Frederick C., assignor.)
- Zielinski, Hieronymus, Berlin, Germany. Oil-pump for motors. No. 1,162,431; Nov. 30; Gaz. vol. 220; p. 1590.
- Zielke, Frederick A., Fond du Lac, Wis. Wire fabric. No. 1,127,715; Feb. 9; Gaz. vol. 211; p. 408.
- Ziemendorf, Fred W., Stevens Point, Wis. Draft-equalizer. No. 1,146,297; July 13; Gaz. vol. 216; p. 482.
- Ziemendorf, Heinrich. (See Evans and Ziemendorf.)
- Ziemss, Henry, Jr., Chicago, Ill. Aeroplane flying-machine. No. 1,162,277; Nov. 30; Gaz. vol. 220; p. 1539.
- Ziemss, Henry, Jr., Chicago, Ill. Aeroplane flying-machine. No. 1,162,278; Nov. 30; Gaz. vol. 220; p. 1539.
- Ziencik, John, New Kensington, Pa. Potato-digger. No. 1,136,461; Apr. 20; Gaz. vol. 213; p. 925.
- Zieve, Abraham, Bath Beach, assignor to The Auto Trunk and Acme Suit Case Mfg. Co., Inc., New York, N. Y. Clamping or locking device. No. 1,135,481; Apr. 13; Gaz. vol. 213; p. 538.
- Zifferer, Lothar R., New York, N. Y. Expansion-bolt. No. 1,136,638; Apr. 20; Gaz. vol. 213; p. 987.
- Zifferer, Lothar R., New York, N. Y. Expansion-bolt. No. 1,138,345; May 4; Gaz. vol. 214; p. 220.
- Zigler, Charles J., and W. P. Holden, Chicago, Ill. Electric switch. No. 1,149,315; Aug. 10; Gaz. vol. 217; p. 399.
- Zigray, Stephan, Yonkers, N. Y. Combined ironing-board and step-ladder. No. 1,150,985; Aug. 24; Gaz. vol. 217; p. 1108.
- Ziirsen, Aage J., Birmingham, England. Chemical process of sharpening worn files. No. 1,161,816; Nov. 23; Gaz. vol. 220; p. 1330.
- Zika, Frank A., assignor of one-half to J. E. Barry, Chicago, Ill. Electric-current conducting and distributing means. No. 1,133,524; Mar. 30; Gaz. vol. 212; p. 1460.
- Zika, Frank A., assignor of one-half to J. E. Barry, Chicago, Ill. System of electrical distribution. No. 1,133,525; Mar. 30; Gaz. vol. 212; p. 1460.
- Zima, Frank, Humphrey, Nebr. Hoe. No. 1,157,356; Oct. 19; Gaz. vol. 219; p. 765.
- Zimmer, Albert E., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car safety foot-guard. No. 1,164,902; Dec. 21; Gaz. vol. 221; p. 843.
- Zimmer, Ernest L. B., Oakland, Cal. Combined vacuum-cleaner and blower. No. 1,124,573; Jan. 12; Gaz. vol. 210; p. 524.
- Zimmer, Ernest L. B., Oakland, Cal. Self-cleaning bag for vacuum-cleaners. No. 1,124,574; Jan. 12; Gaz. vol. 210; p. 524.
- Zimmer, Ernest L. B., Oakland, Cal. Air-control and sight attachment for vacuum-cleaner tools. No. 1,124,575; Jan. 12; Gaz. vol. 210; p. 525.
- Zimmer, Henry C., assignor of one-half to A. L. Ligon, Pecos, Tex. Wagon-tongue. No. 1,146,227; July 13; Gaz. vol. 216; p. 458.
- Zimmer, Paul H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch controller. No. 1,127,573; Feb. 9; Gaz. vol. 211; p. 358.
- Zimmer, Paul H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,136,639; Apr. 20; Gaz. vol. 213; p. 987.
- Zimmer, Paul H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controlling device. No. 1,145,453; July 6; Gaz. vol. 216; p. 168.
- Zimmerly, Aaron H. (See Elchin and Zimmerly.)
- Zimmerly, Edward F. (See Elchin and Zimmerly.)
- Zimmerman, Charles P. (See Mynar and Zimmerman.)
- Zimmerman, Clarence I., deceased, Madison, Wis.; J. G. Zimmerman, administrator, assignor, by mesne assignments, to said J. G. Zimmerman, Chicago, Ill. System for producing high-tension currents. No. 1,139,623; May 18; Gaz. vol. 214; p. 742.
- Zimmerman, Eli T., Mansfield, Ohio. Combined touring and sleeping car. No. 1,163,056; Dec. 7; Gaz. vol. 221; p. 112.
- Zimmerman, Ernest R., Chicago, Ill. Combined mop and wringer. No. 1,126,930; Feb. 2; Gaz. vol. 211; p. 93.
- Zimmerman, Frederick J., Athens, Ill. Grain-elevator wagon-dump and conveyor mechanism. No. 1,145,223; July 6; Gaz. vol. 216; p. 86.
- Zimmerman, George, Battle Creek, Nebr. Stock-waterer. No. 1,162,539; Nov. 30; Gaz. vol. 220; p. 1628.
- Zimmerman, James G., administrator. (See Zimmerman, Clarence I.)
- Zimmerman, John F. (See Koch and Zimmerman.)
- Zimmerman, John F., Waynesboro, Pa. Metallic tie. No. 1,131,588; Mar. 9; Gaz. vol. 212; p. 639.
- Zimmerman, William E., Owosso, Mich. Handle-covering. No. 1,165,484; Dec. 28; Gaz. vol. 221; p. 1085.
- Zimmermann, Fritz, Newark, N. J., assignor to Baker & Co., Incorporated. Alloys of platinum and osmium. (Reissue.) No. 13,961; Aug. 10; Gaz. vol. 217; p. 650.
- Zimmermann, Gottlieb C., Stuttgart, Germany. Making a kola preparation. No. 1,140,934; May 25; Gaz. vol. 214; p. 1239.
- Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Helicoidal body and cutter for gear-wheels. No. 1,151,324; Aug. 24; Gaz. vol. 217; p. 1222.
- Zimmerschied, Karl W., Detroit, Mich. Pyrometer. No. 1,142,133; June 8; Gaz. vol. 215; p. 406.
- Zimtbody, Nathan, New York, N. Y. Tank-valve. No. 1,143,014; June 15; Gaz. vol. 215; p. 752.
- Zin, Charles F., St. Paul, Minn. Indicator. No. 1,153,530; Sept. 14; Gaz. vol. 213; p. 452.
- Zincke, Eric, and C. H. Bull, Bucyrus, Ohio. Dental cabinet. No. 1,123,830; Jan. 5; Gaz. vol. 210; p. 215.
- Zink, Samuel H., Crowder, Okla. Door and window sealer. No. 1,127,344; Feb. 2; Gaz. vol. 211; p. 236.
- Zinke, Bruno, Saarbrücken, Germany. Operating four-cycle explosive-engines. No. 1,147,474; July 20; Gaz. vol. 216; p. 915.
- Zins, Johann, Bremen, assignor to Wiesche & Scharffe, Frankfurt-on-the-Main, Germany. Machine for manufacture of horseshoes. No. 1,136,990; Apr. 27; Gaz. vol. 213; p. 1149.
- Zinsmayer, Mathias, Cleveland, Ohio. Bevel-protractor. No. 1,125,628; Jan. 19; Gaz. vol. 210; p. 935.
- Zinsmeister, Jacob. (See Zanone, Richard J., assignor.)
- Zint, George, Wapakoneta, Ohio. Automatic sprinkler. No. 1,131,767; Mar. 16; Gaz. vol. 212; p. 737.
- Zint, George, Wapakoneta, Ohio. Automatic sprinkler. No. 1,146,228; July 13; Gaz. vol. 216; p. 459.
- Zipay, John J., Sandcoulee, Mont. Resilient wheel. No. 1,148,347; July 27; Gaz. vol. 216; p. 1251.

Alphabetical list of patentees—Continued.

- Zipfel, Edward C., Omaha, Nebr. Toy. No. 1,159,882; Nov. 9; Gaz. vol. 220; p. 550.
- Zipper, Emil, Vienna, Austria-Hungary. Picking-motion for weaving-looms. No. 1,138,528; May 4; Gaz. vol. 214; p. 282.
- Zippler, Francis J., Avalon, Pa. Furnace. No. 1,147,475; July 20; Gaz. vol. 216; p. 916.
- Zippler, Michael, Jr., Pittsburgh, Pa. Cupola-furnace. No. 1,145,648; July 6; Gaz. vol. 216; p. 236.
- Ziprick, Herman C., Spokane, Wash. Apparatus for cleaning sausage-skins. No. 1,155,393; Oct. 5; Gaz. vol. 219; p. 24.
- Zitscher, Arthur. (See Laska and Zitscher.)
- Zittlosen Manufacturing Company. (See Garstang, James E., assignor.)
- Zittlosen Manufacturing Company. (See Schultz and Weteroth, assignors.)
- Zivley, Dennis C., El Paso, Tex. Figured toy. No. 1,149,883; Aug. 10; Gaz. vol. 217; p. 602.
- Zobel, Benjamin J., Detroit, Mich. Tire. No. 1,131,809; Mar. 16; Gaz. vol. 212; p. 754.
- Zodac, Peter, Peekskill, N. Y. Pail. No. 1,164,050; Dec. 14; Gaz. vol. 221; p. 507.
- Zoelly, Heinrich, Zurich, Switzerland, assignor to Escher, Wyss & Co. Ship propulsion. No. 1,158,617; Nov. 2; Gaz. vol. 220; p. 73.
- Zofness, Martin I., Bartlesville, Okla. Measuring-stick. No. 1,143,478; June 15; Gaz. vol. 215; p. 915.
- Zola, John, Trenton, N. J. Mail-delivery apparatus. No. 1,142,475; June 8; Gaz. vol. 215; p. 526.
- Zoller, Johann, and R. Schuster, Vienna, Austria-Hungary. Brake. No. 1,131,810; Mar. 16; Gaz. vol. 212; p. 754.
- Zollinger, John. (See Pratt and Zollinger.)
- Zollinger, Stephen, Woodhaven, N. Y. Fountain-pen. No. 1,164,157; Dec. 14; Gaz. vol. 221; p. 542.
- Zolper, Wilhelm, assignor of one-half to H. F. Schnepf, Wilmington, Del. Game. No. 1,127,345; Feb. 2; Gaz. vol. 211; p. 237.
- Zolper, Wilhelm, assignor of one-half to H. F. Schnepf, Wilmington, Del. Puzzle. No. 1,130,461; Mar. 2; Gaz. vol. 212; p. 218.
- Zook, J. D. (See McDonald, James A., assignor.)
- Zopfi, Balthasar, Santa Rosa, Cal. Life-saving device. No. 1,139,624; May 18; Gaz. vol. 214; p. 742.
- Zorn, George R., Baltimore, Md. Rake attachment. No. 1,124,097; Jan. 5; Gaz. vol. 210; p. 305.
- Zouri Drawn Metals Company. (See Murnane, Daniel J., assignor.)
- Zsakai, John, St. Louis, Mo. Automobile direction-signal. No. 1,145,537; July 6; Gaz. vol. 216; p. 196.
- Zsembery, Sandor. (See Horváth, Sándor, assignor.)
- Zsuzsits, Vinzenz, assignor of one-fourth to C. H. Franz, Aurora, Ill. Door-latch. No. 1,137,107; Apr. 27; Gaz. vol. 213; p. 1192.
- Zuber, Herman, Murphysboro, Ill. Dust-pan. No. 1,141,031; May 25; Gaz. vol. 214; p. 1270.
- Zuch, Frank H., Richmond Hill, N. Y. Air-heater for furnaces. No. 1,148,812; Aug. 3; Gaz. vol. 217; p. 118.
- Zuck, Nicholas, and F. G. Pfistner, Rochester, N. Y. Fabric. No. 1,144,519; June 29; Gaz. vol. 215; p. 1328.
- Zugmaier, Josef, Vaihingen, and J. Wörnag, Untertürkheim, Germany. Manufacture of wheels with wire spokes. No. 1,149,015; Aug. 3; Gaz. vol. 217; p. 188.
- Zuleg, Joseph, Hoboken, N. J. assignor to The Button Machinery Company, New York, N. Y. Saw-sharpener. No. 1,135,245; Apr. 13; Gaz. vol. 213; p. 455.
- Zumino, Lorenzo, San Francisco, assignor of one-half to T. J. O'Leary, Oakland, and one-half to T. P. Fenton, Los Angeles, Cal. Combined baby chair and cart. No. 1,149,972; Aug. 10; Gaz. vol. 217; p. 636.
- Zumpe, Arthur E., Englewood, N. J. Feather-curling machine. No. 1,142,868; June 15; Gaz. vol. 215; p. 700.
- Zuzik, John W., Stillwater, N. Y. Attachment for reaper-rakes. No. 1,132,820; Mar. 23; Gaz. vol. 212; p. 1172.
- Zweibel, Lewis F. (See Royer and Zweibel.)
- Zwerdling, Harry, *et al.* (See Zwerdling, Louis, C., assignor.)
- Zwerdling, Louis C., Brooklyn, assignor of one-third to H. Zwerdling and one-third to J. Josephson, New York, N. Y. Fuel-saving construction for furnaces. No. 1,132,235; Mar. 16; Gaz. vol. 212; p. 909.
- Zwicker, Julius G., Mexico, Mexico. Mold for manufacturing cement pipe. No. 1,160,235; Nov. 16; Gaz. vol. 220; p. 727.
- Zwickle, John M., Roanoke, Va. Smoking set. No. 1,143,159; June 15; Gaz. vol. 215; p. 802.
- Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Clutch mechanism for fashioning knitting-machines. No. 1,129,940; Mar. 2; Gaz. vol. 212; p. 37.
- Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Knock-over-bit mechanism for knitting-machines. No. 1,150,567; Aug. 17; Gaz. vol. 217; p. 907.
- Zwiker, Jacob F., Toledo, Ohio. Forging mechanism. No. 1,150,479; Aug. 17; Gaz. vol. 217; p. 876.
- Zwillinger, Max. (See Dey and Zwillinger.)
- Zwingenberger, Otto K., Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Apparatus for heating and evaporating liquids. No. 1,156,338; Oct. 12; Gaz. vol. 219; p. 375.
- Zwoyer, Ellsworth B. A. and R. A., Perth Amboy, N. J., assignors to The Zwoyer Fuel Company. Machine for making briquets. No. 1,152,468; Sept. 7; Gaz. vol. 218; p. 30.
- Zwoyer, Ellsworth B. A. and R. A., Perth Amboy, N. J., assignors to The Zwoyer Fuel Company. Mechanism for preparing pulverulent materials for molding or briquetting. No. 1,152,469; Sept. 7; Gaz. vol. 218; p. 31.
- Zwoyer Fuel Company, The. See Zwoyer, Ellsworth B. A. and R. A., assignors.)
- Zwoyer, Rolland A. (See Zwoyer, Ellsworth B. A. and R. A.)
- Zysset, Samuel F., Thomas, Oreg. Apparatus for burning stumps. No. 1,141,747; June 1; Gaz. vol. 215; p. 233.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

- A. Stein & Company. (See Kuehn, Charles P., assignor.)
A. A. Vantine & Co. (See Wolfson, Charles D., assignor.)
A. F. Ward Machinery Co., The. (See Ward, Ashley F., assignor.)
A. H. Heisey Co. (See Sanford, Andrew J., assignor.)
A. O. Smith Company. (See Schwab, Leon C., assignor.)
Abel, Edward C. (See Abel, John A. and E. C.)
Abel, John A. and E. C., Woodhaven, N. Y. Pendant, bar-pin, bracelet, scarf-pin, or similar article. No. 47,177; Apr. 6; Gaz. vol. 213; p. 325.
Abert, Hamilton, Passaic, N. J. Golf-tee. No. 47,942; Oct. 12; Gaz. vol. 219; p. 566.
Abrams, William, Chicago, Ill. Plate. No. 47,178; Apr. 6; Gaz. vol. 213; p. 325.
Abrams, William, assignor to The Meyercord Company, Chicago, Ill. Plate or similar article. Nos. 48,092-3; Nov. 9; Gaz. vol. 220; p. 636.
Acker, Samuel N., Washington, D. C. Medallion, badge, watch-fob, or similar article. Nos. 47,480-1; June 22; Gaz. vol. 215; p. 1250.
Adam, Harry C., St. Louis, Mo. Lighting-fixture. No. 48,094; Nov. 9; Gaz. vol. 220; p. 636.
Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 48,141-6; Nov. 16; Gaz. vol. 220; p. 1010.
Adam, Harry C., St. Louis, Mo. Lighting-fixture bowl. No. 48,147; Nov. 16; Gaz. vol. 220; p. 1010.
Adams, Arra L., Arkadelphia, Ark. Bag. No. 47,064; Mar. 9; Gaz. vol. 212; p. 668.
Adams, Glenn, Cincinnati, Ohio. Badge, emblem, or similar article. No. 47,707; Aug. 17; Gaz. vol. 217; p. 1006.
Acolian Company, The. (See Greene, Harry B., assignor.)
Alken-Lambert Co. (See Dukes, Edwin J., assignor.)
Aitkin, Austin K., assignor to J. J. Dale, trustee, Trenton, N. J. Article of manufacture. No. 47,680; Aug. 10; Gaz. vol. 217; p. 651.
Albert Lorsch and Company. (See Shepard, Egbert B., assignor.)
Albrecht, Nicholas, Philadelphia, assignor to Fred Pearson & Company, Incorporated, Manayunk, Pa. Cut pile fabric. Nos. 47,841-3; Sept. 21; Gaz. vol. 218; p. 858.
Albrecht, Paul, assignor to The Meyercord Company, Chicago, Ill. Plate. No. 47,372; May 25; Gaz. vol. 214; p. 1293.
Albright, Andrew, Jr., New York, N. Y. Harness ornament. No. 47,943; Oct. 12; Gaz. vol. 219; p. 566.
Allen, Charles A., Jr., La Grange, Ill. Coffee-percolator. No. 47,681; Aug. 10; Gaz. vol. 217; p. 651.
Allen, Eugene D., Detroit, Mich. Lighting-standard. No. 46,985; Feb. 23; Gaz. vol. 211; p. 1234.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 47,065; Mar. 9; Gaz. vol. 212; p. 668.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, knives, forks, and other table and toilet articles. No. 47,482; June 22; Gaz. vol. 215; p. 1250.
Almay, Alexander, Chrome, N. J. Curtain-fixture. No. 46,937; Feb. 16; Gaz. vol. 211; p. 931.
Alvey-Ferguson Company, The. (See Wear and Ely, assignors.)
Alvord, Danford F., assignor to Empire Knife Company, Winsted, Conn. Blade for grape-fruit and orange knives. No. 48,236; Nov. 30; Gaz. vol. 220; p. 1700.
American Can Company. (See Eberhart, Felix, assignor.)
American Can Company. (See Hoffman, Edmund, assignor.)
American Federation of Musicians, The. (See Miller, Owen, assignor.)
American Hard Rubber Company. (See Weiting, William W., assignor.)
American Optical Company. (See Carson, Oswald B., assignor.)
American Optical Company. (See Gordon, Robert L., assignor.)
American Pin Company, The. (See Nash, John J., assignor.)
American Ring Company. (See Jenkins, Guy S., assignor.)
American Type Founders Company. (See Benton, Morris F., assignor.)
American Type Founders Company. (See Cooper, Oswald, assignor.)
American Stove Company. (See Fritz, Herman C., assignor.)
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Ceiling-light. No. 48,053; Nov. 2; Gaz. vol. 220; p. 327.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Socket-cover. Nos. 48,054-5; Nov. 2; Gaz. vol. 220; pp. 327-8.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Canopy. No. 48,056; Nov. 2; Gaz. vol. 220; p. 328.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Ceiling-plate. No. 48,057; Nov. 2; Gaz. vol. 220; p. 328.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Side-wall plate. No. 48,058; Nov. 2; Gaz. vol. 220; p. 328.
Anderson, Frederick E., assignor to United States Glass Company, Pittsburgh, Pa. Drinking-glass. No. 47,354; May 18; Gaz. vol. 214; p. 999.
Anderson, Frederick E., assignor to United States Glass Company, Pittsburgh, Pa. Drinking-glass. No. 48,217; Nov. 30; Gaz. vol. 220; p. 1696.
Andrews, George C., Minneapolis, Minn. Traction-engine body. No. 46,871; Jan. 26; Gaz. vol. 210; p. 1348.
Andrews, John F., St. Charles, Ill. Canopy for gas and electric fixtures. No. 47,769; Aug. 31; Gaz. vol. 217; p. 1644.
Ansgore, Percy I., Brooklyn, N. Y. Lighting-fixture part. Nos. 47,316-20; May 11; Gaz. vol. 214; p. 655.
Ansgore, Percy I., Brooklyn, N. Y. Lighting-fixture part. Nos. 47,682-3; Aug. 10; Gaz. vol. 217; p. 651.
Arcade Manufacturing Company. (See Morgan, Charles, assignor.)
Archambeau, Hattie C. (See Howe and Archambeau.)
Armstrong Cork Company. (See Humphreys, Charles F., assignor.)
Armstrong Cork Company. (See Post, Cornelia M., assignor.)
Armstrong Cork Company. (See Solms, Martha H., assignor.)
Armstrong, Zoe, McPherson, Kans. Pan. No. 48,095; Nov. 9; Gaz. vol. 220; p. 636.
Arnold, Harry C., Malden, Mass. Tire. No. 47,944; Oct. 12; Gaz. vol. 219; p. 567.
Arnold, Oscar M., New York, N. Y. Parasol. No. 47,179; Apr. 6; Gaz. vol. 213; p. 326.
Aronson, Louis V., Newark, N. J. Radiator-emblem. No. 48,165; Nov. 23; Gaz. vol. 220; p. 1341.
Arrow Electric Company, The. (See Gates, Frederic P., assignor.)
Arthe, Levy, Bernhard Company. (See McNeill, John, assignor.)
Arthur Chemical Company, The. (See Cossenias, Nicholas A., assignor.)
Arthur Chemical Company, The. (See Freedman, Arthur O., assignor.)
Ashworth, James J., Toronto, Ontario, Canada. Electric lamp. No. 47,530; July 6; Gaz. vol. 216; p. 317.
Associated Silver Company, The. (See Lashar, Thomas B., assignor.)
Austin, Arthur O., Barberton, Ohio. Insulator. No. 47,208; Apr. 13; Gaz. vol. 213; p. 717.
Auto Pedal Pad Co. (See Winkler, Jacob, assignor.)
Averill, Georgene, Los Angeles, Cal. Doll. No. 47,447; June 15; Gaz. vol. 215; p. 965.
Avery, Claire, New York, N. Y. Doll. No. 47,180; Apr. 6; Gaz. vol. 213; p. 326.
B. F. Goodrich Company, The. (See Stauffer, Burton F., assignor.)
B. F. Goodrich Company, The. (See Yule, William H., assignor.)
Bachrach, Arthur N., assignor to S. L. Bachrach, New York, N. Y. Necktie. No. 47,708; Aug. 17; Gaz. vol. 217; p. 1006.
Bachrach, Samuel L. (See Bachrach, Arthur L., assignor.)
Bailey, Charles A., assignor to The J. & E. Stevens Company, Cromwell, Conn. Toy bank. No. 47,095; Mar. 16; Gaz. vol. 212; p. 1025.
Baker, Frederick C., Portland, Oreg. Electric-light hanging-lamp fixture. No. 47,982; Oct. 19; Gaz. vol. 219; p. 886.
Baldwin, Charles W. (See Livengood and Baldwin.)
Ballou, Byrd W., Buffville, Kans. Brick. No. 47,844; Sept. 21; Gaz. vol. 218; p. 858.
Bamberger, Alfred H., New York, N. Y. Display-stand. No. 47,575; July 20; Gaz. vol. 216; p. 995.
Bain, John, Pittsburgh, Pa. Charm, badge, or similar article. Nos. 47,980-1; Oct. 19; Gaz. vol. 219; p. 886.
Barker, Harold, Ann Arbor, Mich. Bassinet. No. 47,415; June 8; Gaz. vol. 215; p. 636.
Barnard, Melville C., Winthrop, Mass. Badge or similar ornament. No. 47,128; Mar. 23; Gaz. vol. 212; p. 1326.
Barringham, James, Detroit, Mich. Game-board. No. 48,301; Dec. 21; Gaz. vol. 221; p. 1011.
Bashelier, Frank M., Jenkintown, Pa. Printer's make-ready table. No. 47,448; June 15; Gaz. vol. 215; p. 965.

Alphabetical list of patentees of designs—Continued.

- Barthels Manufacturing Co. (See Wiberley, Frank, assignor.)
- Bates, Albert E., Nyack, N. Y. Desk-calendar. No. 46,938; Feb. 16; Gaz. vol. 211; p. 931.
- Bates, John E. (See Thompson, Andrew, assignor.)
- Baumann, John, Gleason, Wis. Combined bottle-opener and button-hook. No. 47,096; Mar. 16; Gaz. vol. 212; p. 1025.
- Baxter, Leonidas, assignor to The Thomas Manufacturing Company, Dayton, Ohio. Combination burner and shade-holder for hydrocarbon-lamps. No. 46,891; Feb. 2; Gaz. vol. 211; p. 252.
- Baxter, Leonidas, assignor to The Thomas Manufacturing Company, Dayton, Ohio. Hydrocarbon-lantern. No. 47,770; Aug. 31; Gaz. vol. 217; p. 1644.
- Bay State Metal Wheel Company. (See Siebert and Turner, assignors.)
- Beardslee Chandelier Manufacturing Company. (See Beardslee and French, assignors.)
- Beardslee, George M., and I. L. French, assignors to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Lighting-fixture. No. 46,939; Feb. 16; Gaz. vol. 211; p. 932.
- Beaver Valley Glass Company. (See Provance, David F., assignor.)
- Beeson, John H., Crawfordsville, Ind. Road-sign. No. 47,679; Aug. 3; Gaz. vol. 217; p. 246.
- Beiswanger, John, Steubenville, Ohio. Lamp-shade. No. 47,321; May 11; Gaz. vol. 214; p. 656.
- Bell, Alfred B. (See Caverly and Bell.)
- Bell, John A., assignor to Railway Specialties Company, Los Angeles, Cal. Wigwag signal. No. 47,576; July 20; Gaz. vol. 216; p. 995.
- Bendix, Paul, New York, N. Y. Packing-sheet of fibrous material. No. 46,860; Jan. 19; Gaz. vol. 210; p. 1042.
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben E., assignor.)
- Benjamin, Reuben E., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lighting-fixture. No. 47,531; July 6; Gaz. vol. 216; p. 317.
- Bennett, Adolph, New York, N. Y. Necktie. No. 47,097; Mar. 16; Gaz. vol. 212; p. 1025.
- Bennett, Adolph, New York, N. Y. Necktie. No. 47,181; Apr. 6; Gaz. vol. 213; p. 326.
- Bennett, Arthur J., Cambridge, Ohio. Footed goblet. No. 47,639; July 27; Gaz. vol. 216; p. 1307.
- Bennett, Arthur J., Cambridge, Ohio. Flower-holder. No. 48,166; Nov. 23; Gaz. vol. 220; p. 1341.
- Bennett, Charles A., assignor to The Bennett-Merwin Silver Company, New Milford, Conn. Teapot or similar article. Nos. 48,096-7; Nov. 9; Gaz. vol. 220; p. 636.
- Bennett-Merwin Silver Company, The. (See Bennett, Charles A., assignor.)
- Benton, Morris F., Plainfield, assignor to American Type Founders Company, Jersey City, N. J. Font of type. No. 46,981; Feb. 16; Gaz. vol. 211; p. 940.
- Benton, Morris F., Plainfield, assignor to American Type Foundries Company, Jersey City, N. J. Font of type. No. 47,149; Mar. 30; Gaz. vol. 212; p. 1658.
- Benton, Morris F., assignor to American Type Founders Company, Jersey City, N. J. Font of type. Nos. 47,209-10; Apr. 13; Gaz. vol. 213; p. 717.
- Benton, Morris F., Plainfield, assignor to American Type Founders Company, Jersey City, N. J. Font of type. Nos. 47,552-4; July 13; Gaz. vol. 216; p. 653.
- Benton, Morris F., Plainfield, assignor to American Type Founders Company, Jersey City, N. J. Font of type. No. 47,577; July 20; Gaz. vol. 216; p. 996.
- Benton, Morris F., Plainfield, assignor to American Type Founders Company, Jersey City, N. J. Font of type. No. 48,098; Nov. 9; Gaz. vol. 220; p. 637.
- Bentley, Charles M., and E. W. Hargiss, Hermitage, Mo. Trace-carrier. No. 47,779; Sept. 7; Gaz. vol. 218; p. 288.
- Berg, Charles, New York, N. Y. Motor-bus. No. 47,211; Apr. 13; Gaz. vol. 213; p. 717.
- Bergman, Louis, and J. L. Mendel, assignors to Dentor Company, New York, N. Y. Dispensing device. No. 47,871; Sept. 28; Gaz. vol. 218; p. 1134.
- Bergougnan, Mathieu, Paris, assignor to Societe Generale Des Etablissements Bergougnan, Clermont Ferrand, Puy de Dome, France. Vehicle-tire. No. 47,771; Aug. 31; Gaz. vol. 217; p. 1644.
- Berkander, George F. (See Fenns, Harry E., assignor.)
- Berkey and Gay Furniture Company. (See Stirrup, Stanley H., assignor.)
- Berko, Geza D., New York, N. Y. Watch-fob. No. 48,342; Dec. 28; Gaz. vol. 221; p. 1422.
- Berko, Geza D., New York, N. Y. Watch-charm. No. 48,343; Dec. 28; Gaz. vol. 221; p. 1422.
- Berlet, Emile J., Ridley Park, Pa. Badge, emblem, or similar article. No. 48,167; Nov. 23; Gaz. vol. 220; p. 1341.
- Berry, Fred A., Los Angeles, Cal. Medallion, badge, watch-fob, watch-charm, ring, scarf-pin, brooch, button, or similar article of jewelry. No. 47,983; Oct. 19; Gaz. vol. 219; p. 886.
- Berry, George H., Shelton, assignor to International Silver Company, Meriden, Conn. Back for mirrors, brushes, or similar toilet articles. Nos. 47,578-82; July 20; Gaz. vol. 216; p. 996.
- Berry, Samuel, Dorchester, Mass. Article of manufacture. No. 47,745; Aug. 24; Gaz. vol. 217; p. 1316.
- Bertelsen, Peter J., and G. Keenan, Jr., San Francisco, Cal. Fountain-brush. No. 47,098; Mar. 16; Gaz. vol. 212; p. 1025.
- Berthoud, Clement. (See Frenot, Louis D., assignor.)
- Biffar, Fred, Chicago, Ill. Revolver or pistol handle. No. 47,984; Oct. 19; Gaz. vol. 219; p. 887.
- Bigelow Carpet Company. (See Lacouture, Henry C., assignor.)
- Bigelow Hartford Carpet Company. (See Elliot, William A., assignor.)
- Bigelow-Hartford Carpet Company. (See McCabe, William, assignor.)
- Bigelow-Hartford Carpet Company. (See Merry, John, assignor.)
- Bigelow-Hartford Carpet Company. (See Riddell, Robert F., assignor.)
- Bigelow Hartford Carpet Company. (See Sauer, Emil G., assignor.)
- Bigelow Hartford Carpet Company. (See Scholler, Charles N., assignor.)
- Bihl, Alphonse, Brooklyn, assignor to Palm, Fechteler & Co., New York, N. Y. Plate or similar article. Nos. 48,237-8; Nov. 30; Gaz. vol. 220; p. 1700.
- Bihl, Alphonse, Brooklyn, assignor to Palm, Fechteler & Co., New York, N. Y. Plate or similar article. No. 48,302; Dec. 21; Gaz. vol. 221; p. 1011.
- Bihl, Alphonse, Brooklyn, assignor to Palm, Fechteler & Co., New York, N. Y. Plate or similar article. No. 48,303; Dec. 21; Gaz. vol. 221; p. 1011.
- Birkin, Charles W., Nottingham, England. Levers lace. Nos. 47,212-15; Apr. 13; Gaz. vol. 213; p. 718.
- Birkin, Richard L., Nottingham, England. Levers lace. Nos. 47,807-10; Sept. 14; Gaz. vol. 218; pp. 578-9.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electrical-conduit outlet-box. Nos. 47,985-6; Oct. 19; Gaz. vol. 219; p. 887.
- Bissell, Carl H., Syracuse, N. Y., and Daniel C. Gidley, Boston, Mass., assignors to Crouse-Hinds Company, Syracuse, N. Y. Electrical-conduit outlet-box. No. 47,987; Oct. 19; Gaz. vol. 219; p. 887.
- Bixler, Lewis S., Kenton, Ohio. Stove. Nos. 48,099-100; Nov. 9; Gaz. vol. 220; p. 637.
- Black, Starr & Frost. (See Bray, Frederick W., assignor.)
- Blakeman, William, Burslem, England, assignor to R. Gaertner, New York, N. Y. Article of manufacture. No. 47,373; May 25; Gaz. vol. 214; p. 1293.
- Blankenhagen, Albert, assignor of one-half to F. W. Blankenhagen, Akron, Ohio. Casing for liquid-pistols. No. 47,099; Mar. 16; Gaz. vol. 212; p. 1025.
- Blankenhagen, Frank W. (See Blankenhagen, Albert, assignor.)
- Blattmann, Albert, North Adams, Mass. Cuff-holder. No. 47,583; July 20; Gaz. vol. 216; p. 997.
- Blaze, Joseph D., assignor to McKee Glass Company, Jeannette, Pa. Goblet. No. 47,684; Aug. 10; Gaz. vol. 217; p. 652.
- Bleichrode, Jacob B. (See Ricciardelli and Bleichrode.)
- Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Nos. 46,892-3; Feb. 2; Gaz. vol. 211; p. 252.
- Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Paper-weight, curio, toy figure, or similar article. No. 47,019; Mar. 2; Gaz. vol. 212; p. 299.
- Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 47,281; May 4; Gaz. vol. 214; p. 315.
- Block, Abraham B. (See Block, Bernhard and A. B.)
- Block, Bernhard and A. B., New York, N. Y. Display-stand. No. 47,772; Aug. 31; Gaz. vol. 217; p. 1644.
- Blodgett, Charles, Quincy, Ill. Tombstone. No. 48,344; Dec. 28; Gaz. vol. 221; p. 1422.
- Blyth, Arthur J. (See Gray and Blyth.)
- Boccia, Charles, New York, N. Y. Tooth-brush. No. 47,100; Mar. 16; Gaz. vol. 212; p. 1026.
- Boe, John, Bateman, Saskatchewan, Canada. Toy. No. 47,988; Oct. 19; Gaz. vol. 219; p. 888.
- Boeck, Charles H., assignor to White Frost Refrigerator Co., Jackson, Mich. Liquid-cooler and base. No. 46,894; Feb. 2; Gaz. vol. 211; p. 252.
- Bohnet, John, Lansing, Mich. Automobile-top. No. 48,270; Dec. 14; Gaz. vol. 221; p. 705.
- Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Glass light-shade. No. 47,907; Oct. 5; Gaz. vol. 219; p. 252.
- Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Glass lamp-shade. No. 48,148; Nov. 16; Gaz. vol. 220; p. 1011.
- Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Flower and plant holder. No. 48,149; Nov. 16; Gaz. vol. 220; p. 1011.
- Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Flower and plant holder. No. 48,239; Dec. 7; Gaz. vol. 221; p. 317.
- Borden, George L., Groveville, N. J. Tumbler or similar article. No. 47,216; Apr. 13; Gaz. vol. 213; p. 718.
- Bostock, Charles F., Irvington, N. J., assignor to La Pierre Manufacturing Company. Mirror, brush, or similar toilet article. No. 48,271; Dec. 14; Gaz. vol. 221; p. 705.

Alphabetical list of patentees of designs—Continued.

- Bosworth, Percy B., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic-tire tread. No. 47,872; Sept. 28; Gaz. vol. 218; p. 1134.
- Bottom, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel or similar article. Nos. 47,449-51; June 15; Gaz. vol. 215; p. 965.
- Bouchery, August, assignor to Wallace Novelty Company, New York, N. Y. Incandescent electric lamp. No. 47,217; Apr. 13; Gaz. vol. 213; p. 719.
- Bouchery, August, assignor to Wallace Novelty Company, New York, N. Y. Lighting-fixture. No. 47,218; Apr. 13; Gaz. vol. 213; p. 719.
- Bourquin, Numa. (See Willson and Bourquin.)
- Boyce, Ernest E., Grand Rapids, Mich. Refrigerating show-case. No. 46,940; Feb. 16; Gaz. vol. 211; p. 932.
- Boyce, Harrison H., Forest Hill, N. Y. Gage-case. No. 47,773; Aug. 31; Gaz. vol. 217; p. 1645.
- Boyer, Charles A., Warsaw, Ind., assignor to Hugro Manufacturing Company, Chicago, Ill. Vacuum-cleaner casing. No. 47,020; Mar. 2; Gaz. vol. 212; p. 299.
- Bowers, William F., San Francisco, Cal. Vehicle-tire. No. 47,873; Sept. 28; Gaz. vol. 218; p. 1134.
- Bowie, Harold D., Mahwah, N. J., assignor to E. I. Horsman Co. Toy. No. 47,908; Oct. 5; Gaz. vol. 219; p. 252.
- Bowker, Thomas F., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Screw-driver. No. 48,218; Nov. 30; Gaz. vol. 220; p. 1696.
- Bozorth, Loriot D., Blackwood, N. J. Toy scoop-cart. No. 47,515; June 29; Gaz. vol. 215; p. 1490.
- Bradford, Granville C., assignor to Granville Manufacturing Co., Washington, D. C. Toilet-powder container. No. 47,909; Oct. 5; Gaz. vol. 219; p. 252.
- Brandon, Henry, London, England. Charm. No. 46,941; Feb. 16; Gaz. vol. 211; p. 932.
- Brandt, Carl, assignor to Winslow Bros. & Smith Co., Boston, Mass. Leather. Nos. 47,066-7; Mar. 9; Gaz. vol. 212; p. 669.
- Brandt, Maurice L., Brooklyn, N. Y. Hanger for razorstrops and other articles. No. 47,584; July 20; Gaz. vol. 216; p. 997.
- Bratton, Willard G. (See Bratton, William L., assignor.)
- Bratton, William L., Brooklyn, N. Y., assignor to W. G. Bratton, Pittsburgh, Pa. Casing for coin-actuated machines. No. 47,945; Oct. 12; Gaz. vol. 219; p. 567.
- Bray, Frederick W., Greenwich, Conn., assignor to Black, Starr & Frost, New York, N. Y. Spoon, fork, or similar article. No. 48,272; Dec. 14; Gaz. vol. 221; p. 705.
- Breuer, Erich F. J., assignor to H. Mueller Mfg. Co., Decatur, Ill. Hose-washer. No. 47,989; Oct. 19; Gaz. vol. 219; p. 888.
- Briegleb, Joseph A., Chicago, Ill. Pin or badge. No. 47,990; Oct. 19; Gaz. vol. 219; p. 888.
- Bright, Virginia B., Fayetteville, Tenn. Broom. No. 47,101; Mar. 16; Gaz. vol. 212; p. 1026.
- Britton, Lucian L., Denver, Colo. Container for hot-water bottles and fountain-syringes. No. 47,874; Sept. 28; Gaz. vol. 218; p. 1134.
- Bromley & Sons, John. (See Petzold, Adolph, assignor.)
- Brown, Julius, Peekskill, N. Y. Aerial toy. No. 48,304; Dec. 21; Gaz. vol. 221; p. 1012.
- Bruce, Avery C., assignor to Senn Pressed Steel Hoe & Tool Company, Birmingham, Ala. Rake. No. 47,021; Mar. 2; Gaz. vol. 212; p. 299.
- Brucker, Ferdinand F., assignor to The Miller Rubber Co., Akron, Ohio. Toy balloon. No. 48,150; Nov. 16; Gaz. vol. 220; p. 1011.
- Brunhoff, Edward, Cincinnati, Ohio. Change-tray. No. 47,129; Mar. 23; Gaz. vol. 212; p. 1326.
- Brunow, Carl H., New York, N. Y. Corn or fruit holder. No. 48,305; Dec. 21; Gaz. vol. 221; p. 1012.
- Bruton, Karl E., Whitney, Tex. Cooler. No. 47,022; Mar. 2; Gaz. vol. 212; p. 299.
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Buermann, George, Newark, N. J. Check-piece for bits. No. 47,023; Mar. 2; Gaz. vol. 212; p. 300.
- Buermann, George, Newark, N. J. Stirrup. No. 47,024; Mar. 2; Gaz. vol. 212; p. 300.
- Buermann, George, Newark, N. J. Cinch-ring. No. 47,282; May 4; Gaz. vol. 214; p. 315.
- Burfeind, Richard F., assignor to Keystone Type Foundry, Philadelphia, Pa. Font of type. No. 47,025; Mar. 2; Gaz. vol. 212; p. 300.
- Burfeind, Richard F., assignor to Keystone Type Foundry, Philadelphia, Pa. Font of type. No. 47,130; Mar. 23; Gaz. vol. 212; p. 1326.
- Burger, Max H., Bradley Beach, N. J. Candle-lamp. No. 47,483; June 22; Gaz. vol. 215; p. 1251.
- Burgess, Charles F., assignor to C. F. Burgess Laboratories, Madison, Wis. Battery hand-lantern. No. 48,059; Nov. 2; Gaz. vol. 220; p. 328.
- Burke, John A., Cleveland, Ohio. Sign or insignia. No. 48,101; Nov. 9; Gaz. vol. 220; p. 637.
- Burley & Tyrrell Company. (See Hinrichs, Mabel W., assignor.)
- Burnett, Willis, Chillicothe, Ill. Poison-bottle. No. 47,150; Mar. 30; Gaz. vol. 212; p. 1658.
- Burns & Bassick Company, The. (See Burns, Wilbur F., assignor.)
- Burns, Wilbur F., assignor to The Burns & Bassick Company, Bridgeport, Conn. Glass knob. Nos. 47,068-9; Mar. 9; Gaz. vol. 212; p. 669.
- Burns, Wilbur F., assignor to The Burns & Bassick Company, Bridgeport, Conn. Glass knob. No. 47,254; Apr. 27; Gaz. vol. 213; p. 1412.
- Bush & Lane Piano Co. (See Lane, Walter, assignor.)
- Büttler, Fred, Tyndall, S. D. Watch-fob. No. 47,131; Mar. 23; Gaz. vol. 212; p. 1326.
- C. F. Burgess Laboratories. (See Burgess, Charles F., assignor.)
- C. F. White Mfg. Co., The. (See White, Charles J., assignor.)
- Cabirange Manufacturing Company. (See Holloway, Louis R., assignor.)
- Camden Pottery Company. (See Podmore, Arthur J., assignor.)
- Cameoscope Corporation. (See Roys, Herman E., assignor.)
- Campbell, Charles A., New York, N. Y. Gas-lamp. No. 48,240; Dec. 7; Gaz. vol. 221; p. 317.
- Campbell, Helen H., Bremerton, Wash. Kettle-cleaner. No. 46,895; Feb. 2; Gaz. vol. 211; p. 252.
- Campbell, Julia, Bath, N. C. Bread-board. No. 47,322; May 11; Gaz. vol. 214; p. 656.
- Campbell, Metzger & Jacobson. (See Ritscher, Charles H., assignor.)
- Campbell, Thomas B., New York, N. Y. Glass vessel or similar article. No. 47,151; Mar. 30; Gaz. vol. 212; p. 1659.
- Campbell, Walter G., Marysville, Ohio. Clock. No. 47,946; Oct. 12; Gaz. vol. 219; p. 567.
- Canada Carbide Company. (See McTavish, Daniel D., assignor.)
- Canfield, Frank A., Chicago, Ill. Collar-button. No. 47,374; May 25; Gaz. vol. 214; p. 1293.
- Carling, Albert G., New York, N. Y. Bottle. No. 48,151; Nov. 16; Gaz. vol. 220; p. 1011.
- Carnahan, Ernest R., Chicago, Ill. Ink-well. No. 47,026; Mar. 2; Gaz. vol. 212; p. 300.
- Carson, Oswald B., assignor to American Optical Company, Southbridge, Mass. Display-stand. No. 47,780; Sept. 7; Gaz. vol. 218; p. 289.
- Carson, Oswald B., assignor to American Optical Company, Southbridge, Mass. Display device. No. 47,781; Sept. 7; Gaz. vol. 218; p. 289.
- Carver, John F., Boston, assignor to Henry Thayer & Company, Cambridge, Mass. Bottle. No. 47,640; July 27; Gaz. vol. 216; p. 1307.
- Cass, Howard W., San Diego, Cal. Statue. No. 47,219; Apr. 13; Gaz. vol. 213; p. 719.
- Cavalli, Carlo, Turin, Italy, assignor to F. I. A. T. Automobile radiator and hood. No. 48,219; Nov. 30; Gaz. vol. 220; p. 1697.
- Caverly, Robert B., and A. B. Bell, assignors to Hale and Kilburn Company, Philadelphia, Pa. Gas-range. No. 48,102; Nov. 9; Gaz. vol. 220; p. 637.
- Central Oil & Gas Stove Co. (See White, Fred E., assignor.)
- Chacon, Enriqueta, New York, N. Y. Pin. No. 47,452; June 15; Gaz. vol. 215; p. 966.
- Chadwick, Lee S., assignor to The Cleveland Foundry Company, Cleveland, Ohio. Water-heater casing. No. 47,685; Aug. 10; Gaz. vol. 217; p. 652.
- Chalupský, Joseph, Weed, Cal. Hat-pin guard. No. 47,027; Mar. 2; Gaz. vol. 212; p. 300.
- Champion Chemical Company, The. (See Johnson, Charles L., assignor.)
- Champion Graphophone Company. (See Markels, Leonard, assignor.)
- Charles K. Grouse Company. (See Gilbride, Elizabeth M., assignor.)
- Chase, Irwin, assignor to The Elco Company, Bayonne, N. J. Pleasure-boat. No. 47,375; May 25; Gaz. vol. 214; p. 1293.
- Chase, Irwin, assignor to The Elco Company, Bayonne, N. J. Pleasure-cruiser. No. 48,220; Nov. 30; Gaz. vol. 220; p. 1697.
- Chassaing, Frank X., assignor to Shiras-Chassaing Electric and Manufacturing Company, St. Louis, Mo. Electric lamp and stand. No. 46,922; Feb. 9; Gaz. vol. 211; p. 609.
- Chassaing, Joseph, assignor to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. No. 47,991; Oct. 19; Gaz. vol. 219; p. 888.
- Chatillon, George E., New York, N. Y. Scale-weight. No. 48,339; Dec. 21; Gaz. vol. 221; p. 1019.
- Cheney Brothers. (See Doughty, Emma W., assignor.)
- Chéron, Pierre J., New York, N. Y., assignor to Towle Manufacturing Company, Newburyport, Mass. Handle for spoons or analogous articles. No. 48,306; Dec. 21; Gaz. vol. 221; p. 1012.
- Chicago Title & Trust Co., trustee. (See Hansen, Augie L., assignor.)
- Childerhose, Arthur D., Ottawa, Ontario, Canada. Cotton-receiver. No. 46,982; Feb. 16; Gaz. vol. 211; p. 940.
- Christian, James H., Detroit, Mich. Tire-casing. No. 47,947; Oct. 12; Gaz. vol. 219; p. 567.
- Christ, Joseph V., Newark, N. J., assignor to Taylor & Co., Inc. Buckle. No. 46,816; Jan. 19; Gaz. vol. 210; p. 1042.

- Christy, James, Cleveland, assignor to The Portage Rubber Company, Akron, Ohio. Vehicle-tire. No. 46,942; Feb. 16; Gaz. vol. 211; p. 932.
- Christy, James, Cleveland, assignor to The Portage Rubber Company, Barberton, Ohio. Vehicle-tire. Nos. 47,875-6; Sept. 28; Gaz. vol. 218; p. 1135.
- Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish cover. No. 48,168; Nov. 23; Gaz. vol. 220; p. 1341.
- Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. No. 48,169; Nov. 23; Gaz. vol. 220; p. 1341.
- Churchill, William, Corning, N. Y., assignor to Corning Glass Works. Transparent cooking-dish. No. 48,241; Dec. 7; Gaz. vol. 221; p. 317.
- City Machine & Tool Company, The. (See Davis, John B., assignor.)
- Clapper, Ralph A., Altoona, Pa. Insulator. No. 46,862; Jan. 19; Gaz. vol. 210; p. 1043.
- Clarke, Fred D., Rochester, N. Y. Thread-cutter. No. 47,992; Oct. 19; Gaz. vol. 219; p. 888.
- Claveloux, Francis J., Washington, D. C. Game-board. No. 46,943; Feb. 16; Gaz. vol. 211; p. 932.
- Cleveland-Akron Bag Company, The. (See Karberg, Charles F., assignor.)
- Cleveland Foundry Company, The. (See Chadwick, Lee S., assignor.)
- Clinton Cut Glass Company. (See Wilmarth, Glenn G., assignor.)
- Cloud, Otho E., Philadelphia, Pa. Label. No. 48,242; Dec. 7; Gaz. vol. 221; p. 317.
- Cluett, Peabody & Co. (See Hurd, Hubbard F., assignor.)
- Coane, Robert, Philadelphia, Pa. Bottle. No. 47,355; May 18; Gaz. vol. 214; p. 1000.
- Cochran, Andrew, Trenton, N. J. Water-closet bowl. No. 46,923; Feb. 9; Gaz. vol. 211; p. 609.
- Cohn, Joseph, New York, N. Y. Bracelet. No. 47,746; Aug. 24; Gaz. vol. 217; p. 1316.
- Cohn, Louis, assignor to Henry Freund & Bro., New York, N. Y. Button, badge, or similar article. No. 47,709; Aug. 17; Gaz. vol. 217; p. 1006.
- Cohn & Rosenberger. (See Rosenberger, Carl, assignor.)
- Colley, James F., El Paso, Tex. Meat-tenderer. No. 48,170; Nov. 23; Gaz. vol. 220; p. 1342.
- Collingbourne, Albert B., Chicago, Ill. Tatting-shuttle. No. 47,811; Sept. 14; Gaz. vol. 218; p. 579.
- Collins, Harry, New York, N. Y. Dress. Nos. 47,255-6; Apr. 27; Gaz. vol. 213; pp. 1412-13.
- Commons, William C., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Surface plate. No. 47,686; Aug. 10; Gaz. vol. 217; p. 652.
- Conover, Harvey, Chicago, Ill. Sign. No. 48,307; Dec. 21; Gaz. vol. 221; p. 1012.
- Consolidated Car Heating Company. (See Hulme, John W., assignor.)
- Cooley, Gifford W., Plainfield, N. J. Doll. No. 48,221; Nov. 30; Gaz. vol. 220; p. 1697.
- Cooney, Laura S., New York, N. Y. Suspender-waist. No. 47,710; Aug. 17; Gaz. vol. 217; p. 1006.
- Cooper, Abraham, New York, N. Y. Chain-link. Nos. 48,023-5; Oct. 26; Gaz. vol. 219; p. 1208.
- Cooper, Oswald, Chicago, Ill., assignor to American Type Founders Company, Jersey City, N. J. Font of type. No. 47,641; July 27; Gaz. vol. 216; p. 1308.
- Corcoran, James D., assignor to The Corcoran-Seidel Company, Cleveland, Ohio. Grease-cup and oiler. No. 47,845; Sept. 21; Gaz. vol. 218; p. 858.
- Corcoran-Seidel Company, The. (See Corcoran, James D., assignor.)
- Cordley, Henry G., Glen Ridge, N. J. Liquid-dispenser. No. 48,022; Oct. 26; Gaz. vol. 219; p. 1208.
- Corning Glass Works. (See Churchill, William, assignor.)
- Cosgrave, Wallace B., New York, N. Y. Electric-light socket. No. 47,241; Apr. 20; Gaz. vol. 213; p. 1088.
- Coss, Frank, Greencastle, Ind. Kitchen-cabinet. No. 48,308; Dec. 21; Gaz. vol. 221; p. 1012.
- Cossenias, Nicholas A., New York, N. Y., assignor to The Arthur Chemical Company, New Haven, Conn. Seal or label blank or similar article. No. 47,662; Aug. 3; Gaz. vol. 217; p. 243.
- Coughlin, Edward J., Passaic, N. J., assignor to New York Belting & Packing Company, New York, N. Y. Rubber hose. No. 46,944; Feb. 16; Gaz. vol. 211; p. 932.
- Courtney, Robert A., Baltimore, Md. Dispensing device. No. 47,948; Oct. 12; Gaz. vol. 219; p. 568.
- Coutant, Oscar Z., Springfield, Ill. Tool-body. No. 47,585; July 20; Gaz. vol. 216; p. 997.
- Cox, Arthur W., Malden, Mass. Knife for table use and other purposes. No. 47,586; July 20; Gaz. vol. 216; p. 997.
- Cox, Arthur W., Malden, Mass. Combined knife and fork. No. 48,103; Nov. 9; Gaz. vol. 220; p. 637.
- Cox, Morgan H., assignor to E. Holl Shuttles, Dallas, Tex. Bracelet-link. No. 47,993; Oct. 19; Gaz. vol. 219; p. 888.
- Crandall, Stone & Company. (See Titchener, Charles E., assignor.)
- Crane & Breed Manufacturing Company, The. (See Blesch, Charles, assignor.)
- Crane, Henry M., New York, N. Y. Automobile-radiator. No. 47,152; Mar. 30; Gaz. vol. 212; p. 1659.
- Cravath, James R., Chicago, Ill. Reflecting-bowl for indirect-lighting systems. No. 48,309; Dec. 21; Gaz. vol. 221; p. 1013.
- Creden, Dennis J., New York, N. Y. Lamp-sign. No. 47,532; July 6; Gaz. vol. 216; p. 317.
- Crimmel, Alvie C., Hartford City, Ind. Dispensing-jar. No. 48,060; Nov. 2; Gaz. vol. 220; p. 328.
- Cross, Fred J., assignor to Rochester Stamping Company, Rochester, N. Y. Body for coffee and tea pots, percolators, and tea-ball pots. No. 48,104; Nov. 9; Gaz. vol. 220; p. 638.
- Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
- Crouse-Hinds Company. (See Bissell and Gidley, assignors.)
- Crouse-Hinds Company. (See Smith, Elda G., assignor.)
- Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. No. 46,924; Feb. 9; Gaz. vol. 211; p. 610.
- Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. No. 47,782; Sept. 7; Gaz. vol. 218; p. 289.
- Crownfield, Sophie L., New York, N. Y., assignor to Victoria Plush Mills, Swathmore, Pa. Fabric. No. 47,356; May 18; Gaz. vol. 214; p. 1000.
- Crystal Percolator Company. (See Ricciardelli and Bleichrode, assignors.)
- Curtiss, George E., New Britain, Conn. Toaster-frame. No. 47,394; June 1; Gaz. vol. 215; p. 292.
- Cusack, Harold, assignor to Thos. Cusack Company, Chicago, Ill. Sign. No. 47,242; Apr. 20; Gaz. vol. 213; p. 1088.
- Cutten, Elisha B., Dayton, Ohio. Permanent magnet. No. 47,812; Sept. 14; Gaz. vol. 218; p. 579.
- D. C. Jenkins Glass Company. (See Jenkins, Addison, assignor.)
- Dale, James J., trustee. (See Aitkin, Austin K., assignor.)
- Daniels, William S., Detroit, Mich. Shock-absorber. No. 48,310; Dec. 21; Gaz. vol. 221; p. 1013.
- Danziger, Abraham, New York, N. Y. Box. No. 47,182; Apr. 6; Gaz. vol. 213; p. 326.
- Darby, Marvin H., et al. (See Ryan, Elmer J., assignor.)
- Davenport, Frank W., Providence, R. I. Mirror-frame. No. 48,152; Nov. 16; Gaz. vol. 220; p. 1011.
- Davidson, Laura E., Houston, Tex. Toy. No. 47,994; Oct. 19; Gaz. vol. 219; p. 889.
- Davis, Addie J. (See Davis, Everett M., assignor.)
- Davis, Everett M., Chicago, Ill., assignor to A. J. Davis, Monson, Mass. Bracelet. No. 48,243; Dec. 7; Gaz. vol. 221; p. 318.
- Davis, John B., assignor to The City Machine & Tool Company, Toledo, Ohio. Liquid dispensing and registering pump. No. 46,813; Jan. 5; Gaz. vol. 210; p. 367.
- Davison, Mabel, New York, N. Y. Arm-bag for ladies' knitting or sewing. No. 47,533; July 6; Gaz. vol. 216; p. 318.
- Davison, Morris, and E. Kanderson, Philadelphia, Pa. Condiment-holder. No. 46,986; Feb. 23; Gaz. vol. 211; p. 1234.
- Dawes, John L., Pittsburgh, Pa. Lamp-globe. No. 47,747; Aug. 24; Gaz. vol. 217; p. 1316.
- Day, Frank R., Fall Brook, Cal. Radiator-cap ornament. No. 47,711; Aug. 17; Gaz. vol. 217; p. 1006.
- De Hart, Raymond M., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Rug. No. 47,323; May 11; Gaz. vol. 214; p. 656.
- De Reamer, Leo, New York, N. Y. Match-safe. No. 47,774; Aug. 31; Gaz. vol. 217; p. 1645.
- De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
- De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Coupling for the air-tube and beel-piece of an atomizer. No. 48,026; Oct. 26; Gaz. vol. 219; p. 1208.
- De Ville, Walter, East Liverpool, Ohio, assignor to The Palm Brothers Company, New York, N. Y. Article of manufacture. No. 47,377; May 25; Gaz. vol. 214; p. 1293.
- Dean, Henry A., Rome, Ga. Heel-scraper for plows. No. 46,925; Feb. 9; Gaz. vol. 211; p. 610.
- Dedrick, Nicholas, Manitowoc, Wis. Spoon-bowl. No. 47,132; Mar. 23; Gaz. vol. 212; p. 1327.
- Degan, Elizabeth A., Hartford, Conn. Stick-pin. Nos. 47,712-14; Aug. 17; Gaz. vol. 217; p. 1007.
- Del Grego, Michael J., Akron, Ohio. Elastic vehicle-tire. No. 48,244; Dec. 7; Gaz. vol. 221; p. 318.
- Delaplaine, Charles E., Jacksonville, Ill. Deflating implement. No. 47,877; Sept. 28; Gaz. vol. 218; p. 1135.
- Delta Upsilon Fraternity. (See Tubby, Josiah T., assignor.)
- Denny, Charles R., Washington, D. C. Telephone attachment. No. 48,105; Nov. 9; Gaz. vol. 220; p. 638.
- Dentor Company. (See Bergman and Mendel, assignors.)
- Depollier, Charles L., New York, assignor to Dubois Watch Case Company, Brooklyn, N. Y. Watch-bracelet. No. 47,376; May 25; Gaz. vol. 214; p. 1293.
- Després, Julie, New York, N. Y. Article of manufacture. No. 46,863; Jan. 19; Gaz. vol. 210; p. 1043.
- Detroit Stove Works. (See Van Wie, Edwin G., assignor.)
- Dickinson, Fairleigh S., Rutherford, N. J. Handle. No. 47,034; Mar. 2; Gaz. vol. 212; p. 301.

Alphabetical list of patentees of designs—Continued.

- Dickson, Robert G., Pittsburgh, Pa., assignor to Jefferson Glass Company, Follansbee, W. Va. Lamp-shade. No. 47,220; Apr. 13; Gaz. vol. 213; p. 719.
- Dieges, Charles J., New York, N. Y. Card-case. No. 46,926; Feb. 9; Gaz. vol. 211; p. 610.
- Dieges, Charles J., New York, N. Y. Badge. No. 47,555; July 13; Gaz. vol. 216; p. 653.
- Dillon, Robert M., Philadelphia, Pa. Eye-shield. No. 46,872; Jan. 26; Gaz. vol. 210; p. 1348.
- Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company. Reflector for light-fixtures. No. 47,642; July 27; Gaz. vol. 216; p. 1308.
- Dodge, Horace E. (See Dodge, John F. and H. E.)
- Dodge, John F., Detroit, and H. E. Dodge, Grosse Point, Mich. Automobile-fender. No. 48,345; Dec. 28; Gaz. vol. 221; p. 1423.
- Doering, Charles, Jr. (See Doering, Henry, C., and M.)
- Doering, Charles, Jr., Oak Park, Ill. Casing for beverage-dispensing devices. No. 48,171; Nov. 23; Gaz. vol. 220; p. 1342.
- Doering, Charles, Jr., and H. H., Oak Park, Ill. Housing for beverage-dispensing apparatus. No. 47,453; June 15; Gaz. vol. 215; p. 966.
- Doering, Henry, C., and M., Chicago, Ill. Water or liquid cooler. No. 47,454; June 15; Gaz. vol. 215; p. 966.
- Doering, Henry H. (See Doering, Charles, Jr., and H. H.)
- Doering, Max. (See Doering, Henry, C., and M.)
- Dolgevill Felt Shoe Company. (See Menge, William, Jr., assignor.)
- Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)
- Donas, Frank, Montreal, Quebec, Canada. Weapon. No. 47,748; Aug. 24; Gaz. vol. 217; p. 1316.
- Doty, Walter G., Dayton, Ohio. Suction-cleaner nozzle. No. 47,063; Mar. 2; Gaz. vol. 212; p. 307.
- Doty, Walter G., Dayton, Ohio. Suction-cleaner frame. No. 47,257; Apr. 27; Gaz. vol. 213; p. 1413.
- Double Grip Garter Company. (See Latham, Dudley E., assignor.)
- Dougherty, Arthur J., Jr. (See Murdock and Dougherty.)
- Dougherty, George D., Tiffin, Ohio, assignor to United States Glass Company, Pittsburgh, Pa. Vase. No. 47,878; Sept. 28; Gaz. vol. 218; p. 1135.
- Doughty, Emma W., Cresskill, N. J., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 47,715; Aug. 17; Gaz. vol. 217; p. 1007.
- Douglass, Napoleon B., Berkeley, Cal. Wall-bed head and frame. No. 46,927; Feb. 9; Gaz. vol. 211; p. 610.
- Drake, John W., assignor to Hupp Motor Car Company, Detroit, Mich. Vehicle hub-cap. No. 47,070; Mar. 9; Gaz. vol. 212; p. 669.
- Drayton, Grace G., New York, N. Y. Toy bank or similar article. No. 47,221; Apr. 13; Gaz. vol. 213; p. 719.
- Drayton, Grace G., New York, N. Y. Toy bank or similar article. No. 47,357; May 18; Gaz. vol. 214; p. 1000.
- Dubois Watch Case Company (See Depollier, Charles L., assignor.)
- Duffy, Peter, New York, N. Y. Talking-machine cabinet. Nos. 47,910-14; Oct. 5; Gaz. vol. 219; p. 252-3.
- Dukes, Edwin J., assignor to Aiken-Lambert Co., New York, N. Y. Pencil. No. 47,643; July 27; Gaz. vol. 216; p. 1308.
- Dula, Caleb C., Yonkers, N. Y. Smoking implement. No. 47,687; Aug. 10; Gaz. vol. 217; p. 652.
- Dunbar, John S., Sumter, S. C. Article of manufacture. No. 47,556; July 13; Gaz. vol. 216; p. 653.
- Dunbany, William P., assignor to Sears, Roebuck and Company, Chicago, Ill. Ornamental flexible roofing. No. 48,172; Nov. 23; Gaz. vol. 220; p. 1342.
- Duntley, John W. (See Ferguson, Leonard L., assignor.)
- E. G. Webster & Son. (See Mischler, William, assignor.)
- E. I. Horsman Co. (See Bowie, Harold D., assignor.)
- E. R. Squibb & Sons. (See Weicker, Theodore, assignor.)
- Eagan, Joseph F., St. Jo, Tex. Bracket. No. 47,283; May 4; Gaz. vol. 214; p. 315.
- Eagle Pencil Company. (See Huber, Otto, assignor.)
- East Palestine Rubber Company. (See Miller, Edson A., assignor.)
- Eaton, Harry A., Ilmo, Mo. Car-replacer. No. 47,949; Oct. 12; Gaz. vol. 219; p. 568.
- Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel. No. 47,102; Mar. 16; Gaz. vol. 212; p. 1026.
- Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Piece of glass. No. 47,284; May 4; Gaz. vol. 214; p. 316.
- Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel or similar article. No. 47,285; May 4; Gaz. vol. 214; p. 316.
- Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel or similar article. No. 47,455; June 15; Gaz. vol. 215; p. 966.
- Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Glass dish or similar article. No. 48,245; Dec. 7; Gaz. vol. 221; p. 318.
- Eberhard Faber Pencil Company. (See Van Alst, John M., assignor.)
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Sifter-can. No. 47,663; Aug. 3; Gaz. vol. 217; p. 243.
- Eckert, Adelbert M., Wheeling, W. Va. Puzzle-box. No. 47,484; June 22; Gaz. vol. 215; p. 1251.
- Edson, William, New York, N. Y. Hat. Nos. 48,346-7; Dec. 28; Gaz. vol. 221; p. 1423.
- Edwards, George H., V. H. King, and H. J. Skipp, assignors to Ostby and Barton Company, Providence, R. I. Ring, scarf-pin, brooch, button, or similar article of jewelry. No. 47,485; June 22; Gaz. vol. 215; p. 1251.
- Edwards, Thomas J., Canton, Ohio. Cabinet-desk. No. 47,813; Sept. 14; Gaz. vol. 218; p. 579.
- Elco Company, The. (See Chase, Irwin, assignor.)
- Elgin American Manufacturing Company. (See Hathaway, Thomas F., assignor.)
- Elkins, David H., Amesbury, assignor to Gray & Davis, Inc., Boston, Mass. Automobile-lamp. No. 47,915; Oct. 5; Gaz. vol. 219; p. 253.
- Elliot, William A., Yonkers, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. No. 46,814; Jan. 5; Gaz. vol. 210; p. 367.
- Elliott, Herbert, Toronto, Ontario, Canada. Toy. No. 47,183; Apr. 6; Gaz. vol. 213; p. 326.
- Ellis, Emory E., assignor to Union Caliper Company, Orange, Mass. Tool-handle. No. 47,416; June 8; Gaz. vol. 215; p. 637.
- Ellis, Howard G., assignor to Hood Rubber Corporation, Watertown, Mass. Vehicle-tire. No. 48,348; Dec. 28; Gaz. vol. 221; p. 1423.
- Ely, Bernard M. (See Wear and Ely.)
- Embroidery Trading Company. (See Zeller, Hans, assignor.)
- Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
- Emerson-Brantingham Company. (See Waterman and Traphagen, assignors.)
- Emil Grossman Mfg Co. Inc. (See Leckler, Harry H., assignor.)
- Empire Knife Company. (See Alvord, Danford F., assignor.)
- Engelhardt, Philip M., Cartersville, Iowa. Package-tie. No. 48,273; Dec. 14; Gaz. vol. 221; p. 705.
- English, Frederick A., Chicago, Ill. Suction-cleaner casing. No. 46,987; Feb. 23; Gaz. vol. 211; p. 1234.
- Erickson, George E., assignor to C. S. Van Noy, Kansas City, Mo. Statuette. No. 47,222; Apr. 13; Gaz. vol. 213; p. 719.
- Erickson, John E., Minneapolis, Minn. Combined table-lamp, signal, and tray. No. 47,814; Sept. 14; Gaz. vol. 218; p. 579.
- Errett, Charles, New York, assignor to Public Service Cup Company, Brooklyn, N. Y. Cup-dispenser. No. 48,173; Nov. 23; Gaz. vol. 220; p. 1342.
- Eustis, John P., Newton, Mass. Dish. No. 47,846; Sept. 21; Gaz. vol. 218; p. 859.
- Ewing, Robert E. (See Kopp and Ewing.)
- Ewing, Robert E., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Hanger for light-reflecting bowls. No. 47,688; Aug. 10; Gaz. vol. 217; p. 652.
- F. I. A. T. (See Cavalli, Carlo, assignor.)
- F. T. Pearce Company. (See Wall, Dominic, assignor.)
- Faber, John F., Brooklyn, N. Y. Pin. No. 47,378; May 25; Gaz. vol. 214; p. 1293.
- Faber, John F., Brooklyn, N. Y. Ring. No. 47,417; June 8; Gaz. vol. 215; p. 637.
- Faber, John F., Brooklyn, N. Y. Ring. No. 47,815; Sept. 14; Gaz. vol. 218; p. 580.
- Faber, John F., New York, N. Y. Ring. No. 48,349; Dec. 28; Gaz. vol. 221; p. 1424.
- Fageol, Rollie B., Oakland, Cal. Vehicle-body. Nos. 47,287-8; May 4; Gaz. vol. 214; p. 316.
- Fageol, Rollie B., Oakland, Cal. Vehicle-body. No. 48,350; Dec. 28; Gaz. vol. 221; p. 1424.
- Faries Manufacturing Co. (See Surface, William E., assignor.)
- Farmiloe, Thomas M., West Smithfield, London, England. Rolled glass. No. 46,896; Feb. 2; Gaz. vol. 211; p. 253.
- Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Toaster-frame. No. 46,897; Feb. 2; Gaz. vol. 211; p. 253.
- Farr, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Article of manufacture. No. 47,379; May 25; Gaz. vol. 214; p. 1293.
- Faultless Rubber Company, The. (See Miller, Thomas W., assignor.)
- Faultless Rubber Company, The. (See Wentz, Geneva F., assignor.)
- Feasel, Harry L., Philadelphia, Pa. Mop. No. 47,035; Mar. 2; Gaz. vol. 212; p. 301.
- Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Gas-engine casing. No. 47,689; Aug. 10; Gaz. vol. 217; p. 652.
- Fenno, Harry E., assignor to G. F. Berkander, Providence, R. I. Pair of goggles. No. 47,916; Oct. 5; Gaz. vol. 219; p. 253.
- Ferguson, Leonard L., assignor to J. W. Duntley, Chicago, Ill. Suction-nozzle for pneumatic sweepers. No. 47,358; May 18; Gaz. vol. 214; p. 1000.
- Ferris, William I., Westfield, N. J. Pour-out bottle-stopper. No. 47,716; Aug. 17; Gaz. vol. 217; p. 1007.
- Fetzer, John, Los Angeles, Cal. Hat-rack. No. 47,359; May 18; Gaz. vol. 214; p. 1000.
- Fields, Albert F., Alhambra, Cal. Game-chart. No. 47,869; Sept. 21; Gaz. vol. 218; p. 863.

- Fishback, Ezra S. (See Fishback, Fay F. and E. S.)
 Fishback, Fay F. and E. S., East Orange, N. J. Barber's cabinet. No. 48,061; Nov. 2; Gaz. vol. 220; p. 329.
 Fisher, Charles F., Jamaica, N. Y. Ash-receiver. No. 47,749; Aug. 24; Gaz. vol. 217; p. 1316.
 Fisher, John M., Attleboro, Mass. Bracelet, watch-fob, or vest-chain. No. 47,717; Aug. 17; Gaz. vol. 217; p. 1007.
 Fisher, Leon O., Yonkers, N. Y., and C. D. Massey, Upper Montclair, N. J. Desk. No. 46,815; Jan. 5; Gaz. vol. 210; p. 367.
 Fisk Rubber Company. (See Leab, Herbert J., assignor.)
 Fitch, Margaret R., Palermo, assignor to C. B. Tuttle, Berkeley, Cal. Rompers. No. 46,988; Feb. 23; Gaz. vol. 211; p. 1235.
 Fitch, Mary E., Brookline, Mass. Crochet-needle. No. 47,718; Aug. 17; Gaz. vol. 217; p. 1008.
 Florence Manufacturing Company, trustee. (See Kingman, Lewis E., assignor.)
 Folding-Stand Co. (See Smith, Carleton W., assignor.)
 Foley, Edward. (See Langley and Foley.)
 Follmer, Charles J., New York, N. Y. Parasol. Nos. 46,989-91; Feb. 23; Gaz. vol. 211; p. 1235.
 Follmer, Charles J., New York, N. Y. Parasol. No. 47,103; Mar. 16; Gaz. vol. 212; p. 1026.
 Follmer, Charles J., New York, N. Y. Parasol. No. 47,690; Aug. 10; Gaz. vol. 217; p. 653.
 Fostoria Glass Company. (See Bottome, Edgar M., assignor.)
 Fostoria Glass Company. (See Ebeling, Phillip, assignor.)
 Fostoria Glass Company. (See Sullivan, Charles L., assignor.)
 Fowler, Preston L. (See Jolly and Fowler.)
 Fox, Alexander L., East St. Louis, Ill. Yoke for trolley-wire hangers. No. 47,719; Aug. 17; Gaz. vol. 217; p. 1008.
 Fox, Alexander L., East St. Louis, Ill. Insulator-body for trolley-wire hangers. No. 48,174; Nov. 23; Gaz. vol. 220; p. 1342.
 Frank H. Fleer Corporation. (See Swaab, Mayer M., Jr., assignor.)
 Frank Holton & Company. (See Higgins, William E., assignor.)
 Frankland, Alexander J., Tropico, Cal. Spoon. No. 47,071; Mar. 9; Gaz. vol. 212; p. 669.
 Franks, William L., Rock Island, Ill. Lamp-shade. No. 47,153; Mar. 30; Gaz. vol. 212; p. 1659.
 Frary, Ihna T., Hudson, assignor to Hocking Glass Company, Lancaster, Ohio. Lamp-shade. No. 48,153; Nov. 16; Gaz. vol. 220; p. 1012.
 Frazier, Johnson M., Philadelphia, Pa. Glass pitcher. No. 48,351; Dec. 28; Gaz. vol. 221; p. 1424.
 Fred Pearson & Company. (See Albrecht, Nicholas, assignor.)
 Freedman, Arthur O., assignor to The Arthur Chemical Company, New Haven, Conn. Bottle. No. 47,418; June 8; Gaz. vol. 215; p. 637.
 Freeland, Lloyd D., assignor to W. J. H. Strong, Chicago, Ill. Frame for motor-driven fans. No. 47,783; Sept. 7; Gaz. vol. 218; p. 289.
 Freeland, Lloyd D., assignor to W. J. H. Strong, Chicago, Ill. Frame for engine-driven fans. No. 47,879; Sept. 28; Gaz. vol. 218; p. 1135.
 French, George J., assignor to The R. T. French Company, Rochester, N. Y. Bottle or jar. No. 46,992; Feb. 23; Gaz. vol. 211; p. 1235.
 French, Ira L. (See Beardslee and French.)
 French, James G., Philadelphia, Pa. Show-case. No. 48,027; Oct. 26; Gaz. vol. 219; p. 1208.
 Frenot, Louis D., Newark, N. J., assignor of one-half to C. Berthoud, New York, N. Y. Breastpin or similar article of jewelry. No. 48,175; Nov. 23; Gaz. vol. 220; p. 1343.
 Fricke, William J., Hartford, Conn. Tobacco and match box. No. 47,289; May 4; Gaz. vol. 214; p. 316.
 Fried, Dezzo, Berkeley, Cal. Medallion or similar article. No. 47,154; Mar. 30; Gaz. vol. 212; p. 1659.
 Friedberger-Aaron Manufacturing Company. (See Goodman, Samuel N., assignor.)
 Friedberger-Aaron Manufacturing Company. (See Strickhouser, Carlos, assignor.)
 Friedeberger, Alexander, New York, N. Y. Collar-button. No. 46,873; Jan. 26; Gaz. vol. 210; p. 1348.
 Friedley-Voshardt Co. (See Holton, Birchard E., assignor.)
 Friedley-Voshardt Co. (See Mitchell, Edward, assignor.)
 Friedley-Voshardt Co. (See Mohrmann, Paul, assignor.)
 Friedley-Voshardt Co. (See Voshardt, Herman F., assignor.)
 Friedman, Abraham, Worcester, Mass. Society-emblem. No. 48,106; Nov. 9; Gaz. vol. 220; p. 638.
 Fritz, Herman C., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas heating-stove. No. 47,380; May 25; Gaz. vol. 214; p. 1294.
 Frost, Percy T., East Liverpool, Ohio, assignor to Palm, Fechteler & Co., New York, N. Y. Plate or similar article. No. 46,945; Feb. 16; Gaz. vol. 211; p. 933.
 Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-frame member. Nos. 47,223-4; Apr. 13; Gaz. vol. 213; p. 720.
 Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-frame member. Nos. 47,587-8; July 20; Gaz. vol. 216; p. 997.
 G. A. Schneebeli & Co. (See Haldeman, Morris A., assignor.)
 Gadde, Joseph P., Jr., Norwich, Conn. Combined water-glass and cream-glass holder. No. 47,750; Aug. 24; Gaz. vol. 217; p. 1317.
 Gaertner, Rudolf. (See Blakeman, William, assignor.)
 Gair, Robert, New York, assignor to Robert Gair Company, Brooklyn, N. Y. Doily. Nos. 47,456-61; June 15; Gaz. vol. 215; pp. 966-7.
 Gallitzki, Leo, Jr., Chicago, Ill. Hat. No. 48,246; Dec. 7; Gaz. vol. 221; p. 318.
 Garford Manufacturing Company, The. (See Manson, Ray H., assignor.)
 Garland, Abram S., Poughkeepsie, N. Y. Display-cabinet. No. 47,664; Aug. 3; Gaz. vol. 217; p. 243.
 Garrison, Margaret L., Nederland, Colo. Crochet work-basket. No. 47,557; July 13; Gaz. vol. 216; p. 653.
 Garrity, John H., Pittsburgh, Pa. Grace-prayer holder. No. 47,133; Mar. 23; Gaz. vol. 212; p. 1327.
 Garza, Lázaro de la, Torreon, Mexico. Article of manufacture. Nos. 47,028-33; Mar. 2; Gaz. vol. 212; pp. 300-1.
 Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 48,028; Oct. 26; Gaz. vol. 219; p. 1208.
 Gendron, Joseph O., Provo, Utah. Game-board. No. 47,184; Apr. 6; Gaz. vol. 213; p. 326.
 General Acoustic Company. (See Turner, Kelley M., assignor.)
 General Electric Company. (See Grant, Florence L., assignor.)
 General Electric Company. (See Parkhurst, Leon F., assignor.)
 Geo. Borgfeldt & Co. (See Kindt, George C., assignor.)
 Geo. Borgfeldt & Co. (See Semler, George, assignor.)
 George, Edwin S. (See Miller and George.)
 George Frost Company. (See Glidden, George B., assignor.)
 Getz, Phares E., Neosho, Mo. Minnow-trap. No. 46,993; Feb. 23; Gaz. vol. 211; p. 1235.
 Gibson, Joseph P., Dayton, Ohio. Chair. No. 47,036; Mar. 2; Gaz. vol. 212; p. 301.
 Gidley, Daniel C. (See Bissell and Gidley.)
 Giese, Richard S., Pittsburgh, Pa. Glass blank for portable electric lamps. No. 46,928; Feb. 9; Gaz. vol. 211; p. 610.
 Gilbert, David M. (See Schwartz, Frederick, assignor.)
 Gilbride, Elizabeth M., North Attleboro, Mass., assignor to Charles K. Grouse Company. Safety-pin. No. 46,850; Jan. 12; Gaz. vol. 210; p. 692.
 Gillen, Mark J., Cleveland, Ohio, assignor to The Standard Tire & Rubber Manufacturing Company. Vehicle-tire. No. 48,247; Dec. 7; Gaz. vol. 221; p. 318.
 Gillinder & Sons. (See Booth, Kraft, assignor.)
 Gilson, Henry R., Baden, Pa. Electrical fixture. Nos. 47,104-5; Mar. 16; Gaz. vol. 212; pp. 1026-7.
 Giroux, Leon M., New York, N. Y. Automobile-lamp. No. 48,176; Nov. 23; Gaz. vol. 220; p. 1343.
 Glauber, Joseph H., Cleveland, Ohio. Lavatory-fitting. No. 46,946; Feb. 16; Gaz. vol. 211; p. 933.
 Gleason, Homer E., Seattle, Wash. Lighting-fixture. Nos. 46,874-7; Jan. 26; Gaz. vol. 210; pp. 1348-9.
 Gleason, Homer E., Seattle, Wash. Lighting-fixture. No. 47,225; Apr. 13; Gaz. vol. 213; p. 720.
 Gleason, John C., White Castle, La. Watchcase. No. 47,691; Aug. 10; Gaz. vol. 217; p. 653.
 Gleason, George A., Chicago, Ill. Hair-fastener. No. 47,950; Oct. 12; Gaz. vol. 219; p. 568.
 Glidden, George B., Dighton, assignor to George Frost Company, Boston, Mass. Garter. No. 47,486; June 22; Gaz. vol. 215; p. 1251.
 Globe Stove & Range Company, The. (See Patten, James C., assignor.)
 Goldberg, Sherry, New York, N. Y. Button-face. No. 46,929; Feb. 9; Gaz. vol. 211; p. 610.
 Golden, Jack R., Cleveland, Ohio. Teething apparatus. No. 47,419; June 8; Gaz. vol. 215; p. 637.
 Goldsmith, Byron B., New York, N. Y. Paper-clip. No. 47,558; July 13; Gaz. vol. 216; p. 654.
 Goldsmith, Harry N., Philadelphia, Pa. Wall-tile. No. 47,290; May 4; Gaz. vol. 214; p. 317.
 Goldsmith, Nathan, assignor to L. Goldsmith & Son, Newark, N. J. Bracket for wardrobe-trunks. Nos. 48,177-8; Nov. 23; Gaz. vol. 220; p. 1343.
 Goldsmith & Son, L. (See Goldsmith, Nathan, assignor.)
 Gong Bell Manufacturing Company, The. (See Watrous, Clifford M., assignor.)
 Goodman, Samuel N., assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace edging. No. 47,291; May 4; Gaz. vol. 214; p. 317.
 Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Insulated chain connector. No. 47,917; Oct. 5; Gaz. vol. 219; p. 254.
 Goodyear Rubber Company. (See Payne, Fred E., assignor.)
 Gordon, Robert L., assignor to American Optical Company, Southbridge, Mass. Work-bench. No. 47,995; Oct. 19; Gaz. vol. 219; p. 889.
 Gorham Manufacturing Company. (See Staf, Axel H., assignor.)

Alphabetical list of patentees of designs—Continued.

- Gorman Manufacturing Company. (See Jenks, Barton P., assignor.)
- Gosztola, Borhala S., South Bend, Ind. Stocking. No. 47,847; Sept. 21; Gaz. vol. 218; p. 859.
- Gould, Lena, Rochester, Ind. Doll. No. 47,037; Mar. 2; Gaz. vol. 212; p. 302.
- Grady, Joseph P., New York, N. Y. Automobile-body. No. 46,898; Feb. 2; Gaz. vol. 211; p. 253.
- Graefe, Rudolf L., Chicago, Ill. Advertising-easel. No. 47,784; Sept. 7; Gaz. vol. 218; p. 289.
- Graff, Charles, New York, N. Y., assignor to Graff, Wash-bourne & Dunn, New York, N. Y. Dish. No. 47,751; Aug. 24; Gaz. vol. 217; p. 1317.
- Graff Furnace Co. (See Seymour, William M., assignor.)
- Grand Rapids Refrigerator Company. (See Leonard, Harry C., assignor.)
- Grandy, Harlow F., Converse, Ind. Towel-support. No. 47,880; Sept. 28; Gaz. vol. 218; p. 1135.
- Grant, Florence L., Cleveland, Ohio, assignor to General Electric Company. Lamp shade or reflector. No. 48,107; Nov. 9; Gaz. vol. 220; p. 638.
- Granville Manufacturing Co. (See Bradford, Granville C., assignor.)
- Grasberger, Boniface A., Richmond, Va. Holder for sanitary paper ice-cream plates. Nos. 47,785-6; Sept. 7; Gaz. vol. 218; p. 290.
- Gray & Davis. (See Elkins, David H., assignor.)
- Gray, Leonard G., and A. J. Blyth, assignors to Walrus Manufacturing Company, Decatur, Ill. Luncheonette-buffet. No. 47,462; June 15; Gaz. vol. 215; p. 967.
- Greathouse, James N., Muscatine, Iowa. Dress. No. 46,851; Jan. 12; Gaz. vol. 210; p. 692.
- Green, Jonathan S., Pittsburgh, Pa. Lamp. No. 47,816; Sept. 14; Gaz. vol. 218; p. 580.
- Green, Walter R., Chicago, Ill. Drop side mud-guard. No. 47,258; Apr. 27; Gaz. vol. 213; p. 1413.
- Green, Walter R., Chicago, Ill. Mud-guard and bracket therefor for a motor-cycle or similar device. No. 47,817; Sept. 14; Gaz. vol. 218; p. 580.
- Greenduck Company, The. (See Underwood, Thomas C., assignor.)
- Greene, Harry B., Hasbrouck Heights, N. J., assignor to The Aeolian Company. Cabinet for phonographs. Nos. 48,311-17; Dec. 21; Gaz. vol. 221; pp. 1013-14.
- Griffin, Robert B., New York, N. Y. Fabric. No. 47,226; Apr. 13; Gaz. vol. 213; p. 720.
- Griffith, Winfred S., assignor to Heald Machine Company, Worcester, Mass. Magnetic chuck. No. 47,038; Mar. 2; Gaz. vol. 212; p. 302.
- Grimes, James, Wichita, Kans. Clothes-pin. No. 46,852; Jan. 12; Gaz. vol. 210; p. 692.
- Grossgebauer, John, Paterson, N. J. Ribbon. No. 47,720; Aug. 17; Gaz. vol. 217; p. 1008.
- Groth, Henry J., Los Angeles, Cal. Fireplace. No. 47,243; Apr. 20; Gaz. vol. 213; p. 1088.
- Gruelle, John B., New York, N. Y. Toy duck. Nos. 47,787-8; Sept. 7; Gaz. vol. 218; p. 290.
- Gruelle, John B., New York, N. Y. Doll. No. 47,789; Sept. 7; Gaz. vol. 218; p. 290.
- Gudeman, Leo, New York, N. Y. Electric-lighting fixture adapted for use as a suspended room ornamentation. No. 48,274; Dec. 14; Gaz. vol. 221; p. 705.
- Gudeman, Leo, New York, N. Y. Article of table ornamentation adapted for use as a vase. Nos. 48,275-7; Dec. 14; Gaz. vol. 221; p. 706.
- Guinis, Kate M., and S. D. Vamvas, Jacksonville, Fla. Head ornament. No. 47,996; Oct. 19; Gaz. vol. 219; p. 889.
- Guinti, Augustus C., Providence, R. I. Medallion or similar article. No. 48,222; Nov. 30; Gaz. vol. 220; p. 1697.
- Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Bathing-cap. Nos. 46,899-902; Feb. 2; Gaz. vol. 211; pp. 253-4.
- Gunder, Jeanne D., Chicago, Ill. Box. No. 47,692; Aug. 10; Gaz. vol. 217; p. 653.
- Gustara, Jozef, Merrill, Mich. Sugar-beet knife. No. 46,878; Jan. 26; Gaz. vol. 210; p. 1349.
- Guth, Edwin F., St. Louis, Mo. Lamp-shade. No. 47,918; Oct. 5; Gaz. vol. 219; p. 254.
- Guth, Edwin F., St. Louis, Mo. Lighting-fixture. Nos. 48,278-9; Dec. 14; Gaz. vol. 221; p. 706.
- Guth, Edwin F., assignor to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. No. 47,324; May 11; Gaz. vol. 214; p. 656.
- Guth, Edwin F., assignor to Luminous Unit Company, St. Louis, Mo. Canopy or reflector for artificial light. Nos. 47,590-1; July 20; Gaz. vol. 216; p. 998.
- Guth, Edwin F., and R. V. Owen, assignors to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. No. 47,589; July 20; Gaz. vol. 216; p. 998.
- Guth, Edwin F., and R. V. Owen, assignors to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. No. 47,997; Oct. 19; Gaz. vol. 219; p. 889.
- Guthman, Eli A., New York, N. Y. Vanity-case. No. 47,292; May 4; Gaz. vol. 214; p. 317.
- H. Maimin Co. (See Thomas, Charles W., assignor.)
- H. Mueller Mfg. Co. (See Breuer, Erich F. J., assignor.)
- H. Mueller Mfg. Co. (See Mueller, Robert, assignor.)
- H. B. Ruggles Co., The. (See Ruggles, Horatio B., assignor.)
- H. B. Smith Company, The. (See Reed, William B., assignor.)
- Haas, Frank A., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug. No. 46,903; Feb. 2; Gaz. vol. 211; p. 254.
- Haldeman, Morris A., assignor to G. A. Schneebell & Co., Inc., Nazareth, Pa. Lace. Nos. 47,293-7; May 4; Gaz. vol. 214; pp. 317-18.
- Hale and Kilburn Company. (See Caverly and Bell, assignors.)
- Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Shade. No. 46,816; Jan. 5; Gaz. vol. 210; p. 367.
- Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Glass vessel. No. 47,693; Aug. 10; Gaz. vol. 217; p. 653.
- Haley, Reuben, Beaver, assignor to United States Glass Company, Pittsburgh, Pa. Glass vessel or similar article. No. 47,721; Aug. 17; Gaz. vol. 217; p. 1008.
- Hall, Isalah, Aston, Birmingham, England. Furnace for melting type-metal. No. 47,592; July 20; Gaz. vol. 216; p. 998.
- Halterbeck, John, New York, N. Y. Aquarium. No. 48,108; Nov. 9; Gaz. vol. 220; p. 638.
- Hamilton, Asbury H., Brooklyn, N. Y. Combination-dresser. No. 47,818; Sept. 14; Gaz. vol. 218; p. 580.
- Hamilton, Harold H., Bridgeport, Conn., assignor to Whiting Manufacturing Company, New York, N. Y. Platter, tray, or similar article. No. 47,998; Oct. 19; Gaz. vol. 219; p. 889.
- Hammond, Myron B., Bridgeport, Conn., assignor to The Thos. P. Taylor Co., Garter. No. 47,999; Oct. 19; Gaz. vol. 219; p. 889.
- Haney, Emma J., Seneca Falls, N. Y. Cat statuette. No. 47,951; Oct. 12; Gaz. vol. 219; p. 568.
- Hankinson, Ralph A., De Soto, Kans. Motor-vehicle. No. 46,904; Feb. 2; Gaz. vol. 211; p. 255.
- Hanna, David J., Philadelphia, Pa. Loaf of biscuit or rolls. No. 47,253; Apr. 20; Gaz. vol. 213; p. 1090.
- Hanna, David J., Philadelphia, Pa. Loaf of biscuit or rolls. No. 48,179; Nov. 23; Gaz. vol. 220; p. 1343.
- Hansel, Fred C., Kansas City, Mo. Lamp-box. No. 47,848; Sept. 21; Gaz. vol. 218; p. 859.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene-lamp body. No. 46,905; Feb. 2; Gaz. vol. 211; p. 255.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Miner's acetylene-lamp. No. 48,109; Nov. 9; Gaz. vol. 220; p. 638.
- Hansen, Augie L., Evanston, Ill., assignor to Chicago Title & Trust Co., trustee. Body for a massage device. No. 47,952; Oct. 12; Gaz. vol. 219; p. 568.
- Hanzel, John, Columbus, Ohio. Belt. No. 47,819; Sept. 14; Gaz. vol. 218; p. 580.
- Hargiss, Edwin W. (See Bentley and Hargiss.)
- Harrell, Arlando T., Chicago, Ill. Savings-bank. No. 47,395; June 1; Gaz. vol. 215; p. 292.
- Harris, De Lancey P., New York, N. Y. Tire-tread. No. 48,029; Oct. 26; Gaz. vol. 219; p. 1209.
- Harrison, Andrew J., Birmingham, England. Spectacle-frame. No. 47,420; June 8; Gaz. vol. 215; p. 637.
- Harrison, George L., East Cleveland, Ohio. Table. No. 47,360; May 18; Gaz. vol. 214; p. 1000.
- Hart, Ralph E., Fort Wayne, Ind. Self-heating sad-iron. No. 47,820; Sept. 14; Gaz. vol. 218; p. 580.
- Hartman, John H., Lancaster, Pa. Toy or toy bank. No. 47,421; June 8; Gaz. vol. 215; p. 637.
- Hastings, Frank W., Bay City, Mich. Window-cleaning implement. No. 48,062; Nov. 2; Gaz. vol. 220; p. 329.
- Hathaway, Thomas F., assignor to Elgin American Manufacturing Company, Elgin, Ill. Match, cigar, or cigarette case. No. 46,947; Feb. 16; Gaz. vol. 211; p. 933.
- Hauvette-Michelin, Jules, New Brunswick, assignor to Michelin Tire Co., Milltown, N. J. Tread for tires. No. 47,892; Sept. 28; Gaz. vol. 218; p. 1137.
- Havard, Albert H., Urbana, Ill. Concrete grave-lot marker. No. 46,817; Jan. 5; Gaz. vol. 210; p. 367.
- Haviland, Theodore, Limoges, France. Casserole. No. 47,665; Aug. 3; Gaz. vol. 217; p. 243.
- Haviland, Theodore, Limoges, France. Covered dish. No. 47,666; Aug. 3; Gaz. vol. 217; p. 243.
- Haviland, Theodore, Limoges, France. Article of manufacture. No. 47,667; Aug. 3; Gaz. vol. 217; p. 244.
- Hawe, William F. M., assignor to Macbeth-Evans Glass Co., Pittsburgh, Pa. Globe. No. 46,994; Feb. 23; Gaz. vol. 211; p. 1236.
- Hawe, William F. M., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Lamp-globe. No. 47,155; Mar. 30; Gaz. vol. 212; p. 1660.
- Hawe, William F. M., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Lamp-bowl. No. 47,227; Apr. 13; Gaz. vol. 213; p. 720.
- Hays, Edward. (See Hays, William W. and E.)
- Hays, William W. and E., Macomb, Ill. Poison-bottle. No. 47,298; May 4; Gaz. vol. 214; p. 318.
- Hazzard, Henry C., San Francisco, Cal. Game-board. No. 47,487; June 22; Gaz. vol. 215; p. 1251.
- Heady, William H., Los Angeles, Cal. Novelty sign for vehicles and the like. No. 47,156; Mar. 30; Gaz. vol. 212; p. 1660.
- Heald Machine Company. (See Griffith, Winfred S., assignor.)

- Heisey, Clarence, assignor to A. H. Heisey & Co., Newark, Ohio. Jar or bottle. No. 46,864; Jan. 19; Gaz. vol. 210; p. 1043.
- Heisey & Co., A. H. (See Heisey, Clarence, assignor.)
- Heisey & Company, A. H. (See Sanford, Andrew J., assignor.)
- Heisler, Paul K., St. Marys, Kans. Bob-sled. No. 47,593; July 20; Gaz. vol. 216; p. 998.
- Heitzmann, William C., Union City, assignor to The Union City Carriage Manufacturing Company, Union City, Ind. Vehicle-body. No. 47,185; Apr. 6; Gaz. vol. 213; p. 327.
- Heldtite Brush Co. (See Thompson, Charles E., assignor.)
- Heller, Samuel, New York, N. Y. Precious, semiprecious, or synthetic stone or an imitation thereof. No. 46,818; Jan. 5; Gaz. vol. 210; p. 368.
- Heller, Samuel, New York, N. Y. Precious or semiprecious or synthetic stone or an imitation thereof. No. 47,694; Aug. 10; Gaz. vol. 217; p. 653.
- Heller, Samuel, New York, N. Y. Precious or semiprecious or synthetic stone or an imitation thereof. No. 47,722; Aug. 17; Gaz. vol. 217; p. 1008.
- Henderson, Mary I., Los Angeles, Cal. Parasol. No. 47,550; July 13; Gaz. vol. 216; p. 654.
- Henderson, William A., assignor to The Holbrook Company, New York, N. Y. Body for automobiles. No. 48,110; Nov. 9; Gaz. vol. 220; p. 639.
- Henry Freund & Bros. (See Cohn, Louis, assignor.)
- Henry, John J., Brooklyn, N. Y. Clothes-pin. No. 48,223; Nov. 30; Gaz. vol. 220; p. 1697.
- Henry, John W., Buffalo, N. Y. Vehicle-tire. No. 48,154; Nov. 16; Gaz. vol. 220; p. 1012.
- Henry Thayer & Company. (See Carver, John F., assignor.)
- Herhold Chair Co. (See Herhold, Frederick H., assignor.)
- Herhold, Frederick H., assignor to Herhold Chair Co., Chicago, Ill. Bent-stock chair. No. 48,030; Oct. 26; Gaz. vol. 219; p. 1209.
- Herrmann, Eugene C., Los Angeles, Cal. Lamp-shade. No. 46,819; Jan. 5; Gaz. vol. 210; p. 368.
- Herrmann, Eugene C., Los Angeles, Cal. Lamp-shade. No. 47,186; Apr. 6; Gaz. vol. 213; p. 327.
- Herschede, Walter J., Cincinnati, Ohio. Clock-casing. No. 47,187; Apr. 6; Gaz. vol. 213; p. 327.
- Herskovitz, Max, Chicago, Ill. Hanger for light-reflecting bowls. No. 48,280; Dec. 14; Gaz. vol. 221; p. 706.
- Herskovitz, Max, Chicago, Ill. Hanger for light-reflecting bowls. No. 48,318; Dec. 21; Gaz. vol. 221; p. 1015.
- Hettrich, Archibald L., San Rafael, Cal. Shopping-bag. No. 47,106; Mar. 16; Gaz. vol. 212; p. 1027.
- Heulings, William H., Jr., Philadelphia, Pa. Ornamental metal molding. Nos. 47,723-30; Aug. 17; Gaz. vol. 217; pp. 1009-10.
- Heuser, Anna, Paterson, N. J. Closed drawers. No. 47,423; June 8; Gaz. vol. 215; p. 638.
- Hickey, Frank S., Boston, Mass. Prayer-box. No. 47,516; June 29; Gaz. vol. 215; p. 1490.
- Hickish, Robert S., Tuckaboe, N. Y., assignor, by mesne assignments, to E. T. Powell, Columbus, Ohio. Fire-extinguisher casing. Nos. 47,299-300; May 4; Gaz. vol. 214; p. 318.
- Hicks, William M., Cranford, N. J. Fountain-pen holder. No. 47,752; Aug. 24; Gaz. vol. 217; p. 1317.
- Higgins, William E., Milwaukee, Wis., assignor to Frank Holton & Company, Chicago, Ill. Cornet. No. 48,319; Dec. 21; Gaz. vol. 221; p. 1015.
- Hill, Owen E., assignor to Western Electric Company, New York, N. Y. Lantern. No. 48,031; Oct. 26; Gaz. vol. 219; p. 1209.
- Hill, Robert R., and C. C. Robinson, Houston, Tex. Safety-first sign. No. 47,849; Sept. 21; Gaz. vol. 218; p. 859.
- Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 47,072; Mar. 9; Gaz. vol. 212; p. 670.
- Hindle, Thomas H., Jr., New York, N. Y. Doll. No. 47,361; May 18; Gaz. vol. 214; p. 1001.
- Hinrichs, Mabel W., assignor to Burley & Tyrell Company, Chicago, Ill. Article of manufacture. No. 47,107; Mar. 16; Gaz. vol. 212; p. 1027.
- Hipkins, Stephen, Martins Ferry, Ohio. Soap-dish. No. 47,188; Apr. 6; Gaz. vol. 213; p. 327.
- Hirschfeld, Leo, assignor to Stern & Saalberg Company, New York, N. Y. Paper display-box. No. 47,228; Apr. 13; Gaz. vol. 213; p. 720.
- Hirschmann, William F., New York, N. Y. Statuette. No. 47,189; Apr. 6; Gaz. vol. 213; p. 327.
- Hirschmann, William F., New York, N. Y. Base-ball emblem. No. 47,488; June 22; Gaz. vol. 215; p. 1251.
- Hocking Glass Company. (See Frary, Ilna T., assignor.)
- Hodge, Alfred R., Chicago, Ill. Doll or toy. No. 47,259; Apr. 27; Gaz. vol. 213; p. 1413.
- Hodge, Anne B., Hartford, Conn. Table or stand. No. 48,320; Dec. 21; Gaz. vol. 221; p. 1015.
- Hofacker, William, Norwood, Pa. Eskimo doll. No. 48,111; Nov. 9; Gaz. vol. 220; p. 639.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-box. No. 46,865; Jan. 19; Gaz. vol. 210; p. 1043.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Box. No. 46,866; Jan. 19; Gaz. vol. 210; p. 1043.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Box for talcum powder. Nos. 46,948-9; Feb. 16; Gaz. vol. 211; pp. 933-4.
- Hoffman, Edmund, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y. Box for talcum powder. No. 47,134; Mar. 23; Gaz. vol. 212; p. 1327.
- Hoffman, Rudolph, Chicago Heights, Ill. Stove-shelf. No. 47,463; June 13; Gaz. vol. 215; p. 967.
- Hoge, James B., and C. W. Ward, Cleveland, Ohio. Automobile signal-casing. No. 47,668; Aug. 3; Gaz. vol. 217; p. 244.
- Hoheisen, Otto, Birkenfeld, near Pforzheim, Germany. Device for peeling oranges. No. 46,867; Jan. 19; Gaz. vol. 210; p. 1044.
- Hohlfeld, Herman L., Philadelphia, Pa. Turkish towel or mat. Nos. 47,229-32; Apr. 13; Gaz. vol. 213; p. 721.
- Hohlfeld, Herman L., Philadelphia, Pa. Turkish towel or mat. Nos. 47,560-1; July 13; Gaz. vol. 216; p. 654.
- Holdaway, Hall H., Los Angeles, Cal. Automobile-tire. No. 47,135; Mar. 23; Gaz. vol. 212; p. 1327.
- Holbrook Company, The. (See Henderson, William A., assignor.)
- Holden, Alfred, Grays River, Wash. Jar-opener. No. 46,983; Feb. 16; Gaz. vol. 211; p. 941.
- Holden, Philip C., Concord, assignor to United Drug Company, Boston, Mass. Font of type. No. 47,594; July 20; Gaz. vol. 216; p. 998.
- Holdt, Julius, Hamden, assignor to Sargent & Company, New Haven, Conn. Casket-trimming. No. 46,879; Jan. 26; Gaz. vol. 210; p. 1349.
- Hollander, Adolph, New York, N. Y. Ash-tray. No. 46,995; Feb. 23; Gaz. vol. 211; p. 1236.
- Hollister, Clarence P., New York, N. Y. Cooling-radiator for automobiles. No. 48,180; Nov. 23; Gaz. vol. 220; p. 1344.
- Holloway, Louis R., Victoria, Tex., assignor to Cabrange Manufacturing Company, Belleville, Ill. Stove or range. No. 47,644; July 27; Gaz. vol. 216; p. 1308.
- Holmes, Hibbert R., Toronto, Ontario, Canada. Pneumatic tire. No. 47,424; June 8; Gaz. vol. 215; p. 638.
- Holstein, Adolph M., Syracuse, N. Y. Corner-piece for coffins and caskets. Nos. 46,820-31; Jan. 5; Gaz. vol. 210; pp. 363-71.
- Holstein, Edward C., Honolulu, Hawaii. Ukulele-tuning pipe. No. 48,181; Nov. 23; Gaz. vol. 220; p. 1344.
- Holton, Birchard E., Los Angeles, Cal., assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-pan for lighting-fixtures. No. 47,244; Apr. 20; Gaz. vol. 213; p. 1088.
- Holyoke Plush Company. (See Jagger, James E., assignor.)
- Hood Rubber Corporation. (See Ellis, Howard G., assignor.)
- Horner, William C., Indianapolis, Ind., assignor to Western Clock Company, La Salle, Ill. Clock-frame. No. 47,695; Aug. 10; Gaz. vol. 217; p. 653.
- Hosch, Walter E., St. Louis, Mo. Housing for measuring and computing machines. No. 48,248; Dec. 7; Gaz. vol. 221; p. 319.
- Host, Walter H., assignor to Newburyport Silver Company, Keene, N. H. Spoon, fork, or similar article. No. 46,880; Jan. 26; Gaz. vol. 210; p. 1349.
- Hotchkin, Paul M., assignor to National X-Ray Reflector Company, Chicago, Ill. Lamp-reflector. No. 47,136; Mar. 23; Gaz. vol. 212; p. 1327.
- Hotel Traymore Company. (See Moore, Guernsey, assignor.)
- Howard, Charles M., assignor to Windsor Print Works, New York, N. Y. Printed cotton fabric. No. 47,517; June 29; Gaz. vol. 215; p. 1490.
- Howe, Elza N., and H. C. Archambeau, Portland, Oreg. Motor-car body. No. 47,233; Apr. 13; Gaz. vol. 213; pp. 721-2.
- Howell, Florence S. (See Howell, Lewis O., assignor.)
- Howell, George M., Paterson, N. J. Upper for shoes. No. 46,906; Feb. 2; Gaz. vol. 211; p. 255.
- Howell, Lewis O., assignor to F. S. Howell, Philadelphia, Pa. Combined force-cup and cleaner. Nos. 46,996-7; Feb. 23; Gaz. vol. 211; p. 1236.
- Hubbell, Harvey, Bridgeport, Conn. Attachment-plug receptacle. No. 47,953; Oct. 12; Gaz. vol. 219; p. 568.
- Hubbs, Charles E., New York, N. Y. Paper-roll holder. No. 47,518; June 29; Gaz. vol. 215; p. 1490.
- Huber, Otto, assignor to Eagle Pencil Company, New York, N. Y. Pen and pencil clip. No. 47,595; July 20; Gaz. vol. 216; p. 999.
- Hucke, John H., Jr., New York, N. Y. Feed-bag for horses. No. 47,519; June 29; Gaz. vol. 215; p. 1490.
- Huckel, John F., Kansas City, Mo. Vending-truck frame. No. 48,352; Dec. 28; Gaz. vol. 221; p. 1424.
- Hudson Motor Car Company. (See Fekete, Stephen I., assignor.)
- Hughes, Chauncey A., Rossville, Ill. Game-board. No. 46,853; Jan. 12; Gaz. vol. 210; p. 692.
- Hughes, Clement L., Lewistown, Ill. Vending-machine casing. No. 48,321; Dec. 21; Gaz. vol. 221; p. 1015.
- Hughes, Joshua, West Somerville, Mass. Collage ice-dish. No. 47,790; Sept. 7; Gaz. vol. 218; p. 290.
- Hugro Manufacturing Company. (See Boyer, Charles A., assignor.)
- Hulbert, Ansel C., San Francisco, Cal. Electric steam-radiator. No. 47,039; Mar. 2; Gaz. vol. 212; p. 302.

Alphabetical list of patentees of designs—Continued.

- Hullinger, Homer L., Cleveland, Ohio. Signal device. No. 47,425; June 8; Gaz. vol. 215; p. 638.
- Hultgren, Hjalmar, Flushing, N. Y., assignor to E. J. Schroeder, Jersey City, and C. A. Schroeder, Brielle, N. J. Key for gas-cocks or the like. Nos. 47,325-7; May 11; Gaz. vol. 214; pp. 656-7.
- Humphrey, Alfred H., New York, N. Y. Gas-stove. No. 48,063; Nov. 2; Gaz. vol. 220; p. 329.
- Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oil-cloth, or floor-covering. Nos. 47,328-32; May 11; Gaz. vol. 214; pp. 657-8.
- Hunt, Grace L., Wilkes-Barre, Pa. Invalid's couch. No. 47,108; Mar. 16; Gaz. vol. 212; p. 1027.
- Hunt, Paul, Brookline, Mass. Phonograph-casing. No. 48,249; Dec. 7; Gaz. vol. 221; p. 319.
- Hunt, William J., assignor of one-half to A. O. Wright, Memphis, Tenn. Tooth-brush. No. 47,669; Aug. 3; Gaz. vol. 217; p. 244.
- Hunter, Wilber E., Morgantown, W. Va. Article of manufacture. Nos. 47,489-90; June 22; Gaz. vol. 215; p. 1252.
- Huntoon, Frank L. (See Knapp, Edward J. D., assignor.)
- Huntoon, Frank L., Robinson, Ill. Combined bed or couch and desk cabinet. No. 47,535; July 6; Gaz. vol. 216; p. 318.
- Hupp Motor Car Company. (See Drake, John W., assignor.)
- Hurd, Hubbard F., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Fold-collar. No. 48,000; Oct. 19; Gaz. vol. 219; p. 890.
- Huskey, Harry, assignor to Smlth, Kline & French Company, Philadelphia, Pa. Table. No. 47,821; Sept. 14; Gaz. vol. 218; p. 581.
- Hutter, Josef, New York, N. Y. Bottle-opener. No. 47,850; Sept. 21; Gaz. vol. 218; p. 859.
- Hutton, Frederick W., Brockton, Mass. Auto-mat. No. 46,832; Jan. 5; Gaz. vol. 210; p. 371.
- I. B. Kleintert Rubber Company. (See Guinzburg, Victor, assignor.)
- Ikle, Charles F., New York, N. Y., assignor to Ikle Freres & Company, St. Gallen, Switzerland. Embroidered trimming. Nos. 47,073-8; Mar. 9; Gaz. vol. 212; pp. 670-1.
- Ikle, Charles F., New York, N. Y., assignor to Ikle Freres & Company, St. Gallen, Switzerland. Embroidered trimming. No. 47,562; July 13; Gaz. vol. 216; p. 654.
- Ikle Freres & Company. (See Ikle, Charles F., assignor.)
- Ingalls, Joseph B., assignor of one-half to G. G. Reneker, Chicago, Ill. Game-board. No. 47,563; July 13; Gaz. vol. 216; p. 654.
- Inflexible Company. (See Schwarber, Henry, assignor.)
- International Silver Co. (See Kintz, Alfred G., assignor.)
- International Silver Co. (See Pretat, Frederick E., assignor.)
- International Silver Co. (See Strohaker, Gustave, assignor.)
- International Silver Company. (See Berry, George H., assignor.)
- International Silver Company. (See Lashar, Thomas B., assignor.)
- Iroquois China Co. (See Obert, Thomas W., assignor.)
- Israel, Elias, New York, N. Y. Braid. No. 47,396; June 1; Gaz. vol. 215; p. 292.
- Israel, Elias, New York, N. Y. Imitation-straw-braid fabric for hats. No. 47,397; June 1; Gaz. vol. 215; p. 292.
- J. E. Mergott Company, The. (See Fuller, Franz A., assignor.)
- J. & E. Stevens Company, The. (See Bailey, Charles E., assignor.)
- J. H. White Mfg. Co. (See White, Edwin L., assignor.)
- J. H. White Mfg. Co. (See White, John M., assignor.)
- J. H. Williams & Co. (See Martin, Clifford A., assignor.)
- J. L. Sommer Manufacturing Co. (See Sommer, John L., assignor.)
- Jackson, Arthur C., assignor to Miller Lock Company, Philadelphia, Pa. Padlock. No. 47,109; Mar. 16; Gaz. vol. 212; p. 1027.
- Jacob, Richard, and E. Speck, Passaic, N. J. Woven and printed ribbon. No. 47,137; Mar. 23; Gaz. vol. 212; p. 1327.
- Jacobowitz, Henry H., Brooklyn, N. Y. Sign-letter. No. 47,426; June 8; Gaz. vol. 215; p. 638.
- Jagger, James E., assignor to Holyoke Plush Company, Holyoke, Mass. Woven fabric. No. 46,833; Jan. 5; Gaz. vol. 210; p. 371.
- Jameson, William A., Niagara Falls, N. Y. Handle for spoons, forks, or similar articles. No. 47,040; Mar. 2; Gaz. vol. 212; p. 302.
- Jameson, William A., Niagara Falls, N. Y. Handle for spoons, forks, or similar articles. No. 47,157; Mar. 30; Gaz. vol. 212; p. 1660.
- Jameson, William A., Niagara Falls, N. Y. Handle for spoons, forks, or similar articles. No. 47,362; May 18; Gaz. vol. 214; p. 1001.
- Janette, John T., Chicago, Ill. Portable electric lamp. No. 48,224; Nov. 30; Gaz. vol. 220; p. 1697.
- Janson, Albert, New York, N. Y. Molding. No. 47,881; Sept. 28; Gaz. vol. 218; p. 1136.
- Jarnagin, Joseph R., Chattanooga, Tenn. Bale-of-cotton toy animal. No. 46,854; Jan. 12; Gaz. vol. 210; p. 693.
- Jarvis, David, Jr., assignor to Rosenau, Frankel & Co., Philadelphia, Pa. Lace edging. No. 47,491; June 22; Gaz. vol. 215; p. 1252.
- Jasus, Jahn, Streator, Ill. Pocket-box. No. 48,064; Nov. 2; Gaz. vol. 220; p. 329.
- Jefferson Glass Company. (See Dickson, Robert G., assignor.)
- Jenkins, Addison, assignor to D. C. Jenkins Glass Company, Kokomo, Ind. Lamp-chimney. No. 47,301; May 4; Gaz. vol. 214; p. 318.
- Jenkins, Guy S., New York, N. Y., assignor to American Ring Company, Waterbury, Conn. Mustard-jar. No. 47,696; Aug. 10; Gaz. vol. 217; p. 654.
- Jenkins, Guy S., assignor to American Ring Company, Waterbury, Conn. Casserole. No. 48,112; Nov. 9; Gaz. vol. 220; p. 639.
- Jenks, Barton P., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 47,381; May 25; Gaz. vol. 214; p. 1294.
- Jenks, Barton P., assignor to Gorham Manufacturing Company, Providence, R. I. Teapot or similar article. No. 47,427; June 8; Gaz. vol. 215; p. 638.
- Jenks, Barton P., assignor to Gorham Manufacturing Company, Providence, R. I. Pitcher or similar article. No. 47,428; June 8; Gaz. vol. 215; p. 639.
- Jenks, Barton P., assignor to Gorham Manufacturing Company, Providence, R. I. Platter or similar article. No. 47,645; July 27; Gaz. vol. 216; p. 1308.
- Jenner, Percy, assignor to Warwick China Company, Wheeling, W. Va. Plate. No. 48,225; Nov. 30; Gaz. vol. 220; p. 1698.
- Jennings, Henry A., Bridgeport, Conn. Portable electric lamp. No. 46,881; Jan. 26; Gaz. vol. 210; p. 1350.
- Jensen, Hans H., Milwaukee, Wis. Antirattling device. No. 47,851; Sept. 21; Gaz. vol. 218; p. 859.
- Jewett, John H., Appleton, Wis. Book-rack. No. 47,302; May 4; Gaz. vol. 214; p. 318.
- Jobey, Louis and U. N., Brooklyn, N. Y. Tobacco-pipe. No. 46,998; Feb. 23; Gaz. vol. 211; p. 1236.
- Jobey, Ulysse N. (See Jobey, Louis and U. N.)
- Johnson, Charles L., assignor to The Champion Chemical Company, Springfield, Ohio. Burial-vault. No. 47,382; May 25; Gaz. vol. 214; p. 1294.
- Johnson, Eldridge R., Merion, and E. T. Kieffer, Philadelphia, Pa., assignors to Victor Talking Machine Company. Cabinet for talking-machines. No. 47,398; June 1; Gaz. vol. 215; p. 293.
- Johnson, Henry E., Lansdowne, Pa. Combined stand and clock-casing. No. 47,919; Oct. 5; Gaz. vol. 219; p. 254.
- Johnson, Mary E., trustee. (See Bowker, Thomas F., assignor.)
- Johnson, William T., assignor to The Mayer China Company, Beaver Falls, Pa. Article of manufacture. No. 47,731; Aug. 17; Gaz. vol. 217; p. 1010.
- Jolly, Benjamin R., Raleigh, N. C., and P. L. Fowler, New York, N. Y.; said Fowler assignor to said Jolly. Button, badge, or similar article. No. 47,303; May 4; Gaz. vol. 214; p. 319.
- Jones, Alva D., Philadelphia, Pa. Talking-machine cabinet. No. 48,353; Dec. 28; Gaz. vol. 221; p. 1425.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Arm for chandeliers and brackets. Nos. 46,936-2; Feb. 9; Gaz. vol. 211; p. 611.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Adjustable clamp-arm for supporting candles. No. 47,260; Apr. 27; Gaz. vol. 213; p. 1414.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Hanger for light-reflecting bowls. No. 47,596; July 20; Gaz. vol. 216; p. 999.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Arm for chandeliers and brackets. No. 47,597; July 20; Gaz. vol. 216; p. 999.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Arm for chandeliers and brackets. No. 47,926; Oct. 5; Gaz. vol. 219; p. 254.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Hanger for light-reflecting bowls. Nos. 47,921-3; Oct. 5; Gaz. vol. 219; pp. 254-5.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Electric-candle-base hickey. No. 47,924; Oct. 5; Gaz. vol. 219; p. 255.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Arm for chandeliers and brackets. No. 48,032; Oct. 26; Gaz. vol. 219; p. 1209.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Ribbon-clamp for light-reflecting bowls. No. 48,155; Nov. 16; Gaz. vol. 220; p. 1012.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Tassel-pendant for lighting-fixture ornament. No. 48,156; Nov. 16; Gaz. vol. 220; p. 1012.
- Jones, Edward B., Springfield, Ill. Railway-coach body. No. 47,791; Sept. 7; Gaz. vol. 218; p. 290.
- Jones, Samuel M., Wilksburg, Pa. School-desk. No. 47,598; July 20; Gaz. vol. 216; p. 999.
- Joseph Fahys & Company. (See Keller, Sidney A., assignor.)
- Joseph W. Woods & Sons Company. (See Perkins, George H., assignor.)
- Joslin, Myrtle A., Grand Rapids, Mich. Pan. No. 47,536; July 6; Gaz. vol. 216; p. 318.

- Junquera, José, Habana, Cuba. Sign. No. 48,182; Nov. 23; Gaz. vol. 220; p. 1344.
- Justrite Manufacturing Company. (See Hansen, Augle L., assignor.)
- Kajiwaru, Takuma, St. Louis, Mo. Mount for photographs. No. 46,950; Feb. 16; Gaz. vol. 211; p. 934.
- Kalmianczyn, Harry, Naugatuck, Conn. Pocket article. No. 48,065; Nov. 2; Gaz. vol. 220; p. 329.
- Kanderson, Ernest. (See Davison and Kanderson.)
- Karabatos, Gust, Providence, R. I. Medallion or similar article of jewelry. No. 47,383; May 25; Gaz. vol. 214; p. 1294.
- Karberg, Charles F., assignor to The Cleveland-Akron Bag Company, Cleveland, Ohio. Gear-case. No. 47,429; June 8; Gaz. vol. 215; p. 639.
- Karfol, Edward, Brooklyn, N. Y. Lace dolly. Nos. 48,113-15; Nov. 9; Gaz. vol. 220; p. 639.
- Karg, Ernst, Hoboken, N. J. Doll. No. 47,041; Mar. 2; Gaz. vol. 212; p. 302.
- Karg, Ernst, New York, N. Y. Doll. No. 47,599; July 20; Gaz. vol. 216; p. 999.
- Karpeles, Maurice J., Providence, R. I. Display-cabinet. Nos. 47,954-7; Oct. 12; Gaz. vol. 219; p. 569.
- Katibah, Selim A., New York, N. Y. Lavallière. No. 47,520; June 29; Gaz. vol. 215; p. 1490.
- Kaye, Samuel, Columbus, Miss. Crown cork or seal for capping bottles. No. 48,033; Oct. 26; Gaz. vol. 219; p. 1209.
- Keel, Harry T., Chester, Pa. Package-tie. No. 47,042; Mar. 2; Gaz. vol. 212; p. 302.
- Keenan, George, Jr. (See Bertelsen and Keenan.)
- Kekkonen, John, assignor, by mesne assignments, to C. P. Monasch, Chicago, Ill. Table-bed. No. 47,234; Apr. 13; Gaz. vol. 213; p. 722.
- Kelch, Gustav A., New York, N. Y. Article of manufacture. No. 47,958; Oct. 12; Gaz. vol. 219; p. 569.
- Keller, Sidney A., Woodmere, assignor to Joseph Fahys & Company, New York, N. Y. Handle for spoons, forks, or similar articles. No. 47,158; Mar. 30; Gaz. vol. 212; p. 1660.
- Keller, Sidney A., Woodmere, assignor to Joseph Fahys & Company, New York, N. Y. Handle for spoons, forks, or similar articles. No. 47,732; Aug. 17; Gaz. vol. 217; p. 1010.
- Kelley, Lillus A., Calistoga, Cal. Incandescent-lamp shade. No. 48,157; Nov. 16; Gaz. vol. 220; p. 1012.
- Kellogg, John L., Battle Creek, Mich. Biscuit. No. 48,001; Oct. 19; Gaz. vol. 219; p. 890.
- Kells, Herbert R., Los Angeles, Cal. Vehicle-signal. No. 47,235; Apr. 13; Gaz. vol. 213; p. 722.
- Kelly, Lillus A., Calistoga, Cal. Stick-pin or similar article of jewelry. No. 47,430; June 8; Gaz. vol. 215; p. 639.
- Kent, Charles B., Kenosha, Wis. Carbureter. No. 47,304; May 4; Gaz. vol. 214; p. 319.
- Kelsey, Harry S., Brookline, Mass. Settle for lunch-rooms. No. 47,792; Sept. 7; Gaz. vol. 218; p. 291.
- Kelsow, William, Hoboken, N. J. Cruet-stand. No. 47,261; Apr. 27; Gaz. vol. 213; p. 1414.
- Kempf, Frank P., Jasper, Ind. Barber's sign. No. 47,822; Sept. 14; Gaz. vol. 218; p. 581.
- Kempshall, Eleazer, Washington, D. C. Golf or playing ball. No. 47,159; Mar. 30; Gaz. vol. 212; p. 1661.
- Ketcher, Adolph D., Akron, Ohio. Dish. No. 48,340; Dec. 21; Gaz. vol. 221; p. 1019.
- Keystone Type Foundry. (See Burfeind, Richard F., assignor.)
- Kieffer, Eugene T. (See Johnson and Kieffer.)
- Kieffer, Eugene T., Philadelphia, Pa., assignor to Victor Talking Machine Company. Cabinet for talking-machines. No. 47,399; June 1; Gaz. vol. 215; p. 293.
- Kindt, George C., Jersey City, N. J., assignor to Geo. Borgfeldt & Co., New York, N. Y. Bottle-receptacle. No. 47,564; July 13; Gaz. vol. 216; p. 655.
- Kindt, George C., Jersey City, N. J., assignor to Geo. Borgfeldt & Co., New York, N. Y. Spun metal vessel. No. 47,793; Sept. 7; Gaz. vol. 218; p. 291.
- King, Dwight D., Warren, Pa. Lamp. No. 47,925; Oct. 5; Gaz. vol. 219; p. 255.
- King, Frank S., New Bedford, Mass. Hook. No. 48,116; Nov. 9; Gaz. vol. 220; p. 640.
- King, Victor H. (See Edwards, King, and Skipp.)
- Kingman, Lewis E., Northampton, Mass., assignor to Florence Manufacturing Company, trustee, Display-case. No. 46,999; Feb. 23; Gaz. vol. 211; p. 1237.
- Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 47,043; Mar. 2; Gaz. vol. 212; p. 303.
- Kleemichen, Edward R. (See Rathner, Gustave, assignor.)
- Kleinschmidt, Edward E., New York, N. Y. Vaccination-shield. No. 47,333; May 11; Gaz. vol. 214; p. 658.
- Klemm, Edwin O., Saginaw, Mich., and E. W. Schreiber, Yuma, Ariz. Combination study-chair. No. 47,464; June 15; Gaz. vol. 215; p. 968.
- Knapp, Edward J. D., Chicago, assignor to F. L. Huntton, Robinson, Ill. Bed or couch. Nos. 46,907-8; Feb. 2; Gaz. vol. 211; p. 255.
- Knobloch, Karola, Baltimore, Md. Grid for electric storage batteries. No. 46,834; Jan. 5; Gaz. vol. 210; p. 371.
- Knopf, Andrew J., Maywood, Ill. Plate. No. 47,363; May 18; Gaz. vol. 214; p. 1001.
- Knowles, Edward D., New York, N. Y. Emblem, badge, medal, or ornament. No. 48,183; Nov. 23; Gaz. vol. 220; p. 1344.
- Koch, Adolph H., Los Angeles, Cal. Heater-casing. No. 47,600; July 20; Gaz. vol. 216; p. 999.
- Koch, Augustus J., assignor to Onondaga Pottery Company, Syracuse, N. Y. Plate. No. 46,909; Feb. 2; Gaz. vol. 211; p. 255.
- Koehler & Hinrichs Company. (See Lewis, Le Roy C., assignor.)
- Koken, Walter F., St. Louis, Mo. Barber's chair. No. 47,236; Apr. 13; Gaz. vol. 213; p. 722.
- Koken, Walter F., St. Louis, Mo. Child's hair-cutting chair. No. 48,322; Dec. 21; Gaz. vol. 221; p. 1015.
- Kondow, Shiro, Los Angeles, Cal. Charm, stick-pin, statuette, lucky dog, or comic dog. No. 48,002; Oct. 19; Gaz. vol. 219; p. 890.
- Kopp, Nicholas, Pittsburgh, Pa. Shade. Nos. 47,334-5; May 11; Gaz. vol. 214; p. 658.
- Kopp, Nicholas, and R. E. Ewing, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Hanger for light-reflecting bowls. No. 47,138; Mar. 23; Gaz. vol. 212; p. 1328.
- Koretzky, Harry M., New York, N. Y. Pocket flash-light. No. 47,870; Sept. 21; Gaz. vol. 218; p. 863.
- Korpa, Peter, Yonkers, N. Y. Kufte. No. 47,697; Aug. 10; Gaz. vol. 217; p. 654.
- Konyoumjian, Haroutun K., Cleveland, Ohio. Generator and radiator cooling fan for motor-vehicles. No. 47,079; Mar. 9; Gaz. vol. 212; p. 671.
- Kraft, August H., Oakland, Cal. Charm. No. 47,262; Apr. 27; Gaz. vol. 213; p. 1414.
- Kraft, Henry P., Ridgewood, N. J. Dust-cap for valves or the like. Nos. 47,882-4; Sept. 28; Gaz. vol. 218; p. 1136.
- Krakauer, Philip, New York, N. Y. Bed-spring. No. 47,336; May 11; Gaz. vol. 214; p. 658.
- Kretschmar, Edward E., New Ulm, Tex. Tinner's hammer. No. 46,882; Jan. 26; Gaz. vol. 210; p. 1350.
- Kriesemer & Company. (See Wirth, Walter, assignor.)
- Kroeger, John F. W., Bogota, N. J., assignor to Rogers & Thompson, Inc., New York, N. Y. Color-card. No. 48,226; Nov. 30; Gaz. vol. 220; p. 1698.
- Kuehn, Charles P., assignor to A. Stefel & Company, Chicago, Ill. Armband-clasp. No. 48,250; Dec. 7; Gaz. vol. 221; p. 319.
- Kucz, Joseph A., Toledo, Ohio. Automobile-radiator. No. 47,775; Aug. 31; Gaz. vol. 217; p. 1645.
- Kuhlk, Martin D., Akron, Ohio. Vehicle wheel-tire. No. 48,066; Nov. 2; Gaz. vol. 220; p. 330.
- Kuhn, Frank, and F. E. Shaller, Detroit, Mich.; said Shaller assignor to said Kuhn. Chating-dish. No. 47,384; May 25; Gaz. vol. 214; p. 1294.
- Kuhn, Frank, and F. E. Shaller, Detroit, Mich.; said Shaller assignor to said Kuhn. Electric percolator. No. 47,465; June 15; Gaz. vol. 215; p. 968.
- Kuhn, Frank, and F. E. Shaller, Detroit, Mich.; said Shaller assignor to said Kuhn. Baby-food warmer. No. 47,698; Aug. 10; Gaz. vol. 217; p. 654.
- Kula, Antoni, Tarentum, Pa. Weapon. No. 48,184; Nov. 23; Gaz. vol. 220; p. 1344.
- Kulak, Joseph. (See Ulyrch, Kazimierz, assignor.)
- Kull, Sally C., Far Hills, N. J. Badge. No. 47,926; Oct. 5; Gaz. vol. 219; p. 255.
- Kulow, John H., Buffalo, N. Y. Combined ink-well, pin-cushion, and pen-rack. Nos. 47,160-61; Mar. 30; Gaz. vol. 212; p. 1661.
- Kulow, John H., Buffalo, N. Y. Penholder. No. 47,794; Sept. 7; Gaz. vol. 218; p. 291.
- Kulow, John H., Buffalo, N. Y. Penholder. No. 47,852; Sept. 21; Gaz. vol. 218; p. 860.
- Kulow, John H., Buffalo, N. Y. Penholder. No. 48,227; Nov. 30; Gaz. vol. 220; p. 1698.
- Kusel, Isidor J., Chicago, Ill. Pocket savings-bank. No. 47,237; Apr. 13; Gaz. vol. 213; p. 723.
- La Pierre Manufacturing Company. (See Bostock, Charles F., assignor.)
- La Rue, Charles W., New York, assignor to Public Service Cup Co., Brooklyn, N. Y. Cup-dispenser. No. 48,185; Nov. 23; Gaz. vol. 220; p. 1345.
- Labadie, Harry H., assignor of one-half to the estate of W. Schweitzer, deceased, Chicago, Ill. Luncheon-table. No. 47,601; July 20; Gaz. vol. 216; p. 1000.
- Labhard & Company. (See Rau, Fritz, assignor.)
- Lacey, Milton A., Bath, Ill. Watch-charm. No. 47,823; Sept. 14; Gaz. vol. 218; p. 581.
- Lachman, Maurice, New York, N. Y. Fence. Nos. 47,110-13; Mar. 16; Gaz. vol. 212; pp. 1027-8.
- Lacouture, Henry C., Arlington, N. J., assignor to Bigelow Carpet Company, Rug. No. 46,910; Feb. 2; Gaz. vol. 211; p. 256.
- Ladd, Louis E., Providence, R. I., assignor to Potter & Buffinton Company, Gem-setting. No. 47,245; Apr. 20; Gaz. vol. 213; p. 1089.
- Ladd, Louis E., Providence, R. I., assignor to Potter and Buffinton Company. Jewelry-gallery. Nos. 47,400-2; June 1; Gaz. vol. 215; p. 293.
- Ladd, Marvin A., Adrian, Mich. Hand implement. No. 47,263; Apr. 27; Gaz. vol. 213; p. 1414.
- Landers, Pray & Clark. (See Moberg, Oscar, assignor.)

Alphabetical list of patentees of designs—Continued.

- Landers, Frary & Clark. (See Smith, Charles F., assignor.)
 Lane, Walter, Holland, Mich., assignor to Bush & Lane Piano Co., Chicago, Ill. Player-piano case. No. 47,959; Oct. 12; Gaz. vol. 219; p. 570.
 Lang, George L., assignor to Splitdorf Electrical Company, Newark, N. J. Distributer-block. No. 46,951; Feb. 16; Gaz. vol. 211; p. 934.
 Langley, Elbert J., and E. Foley, Los Angeles, Cal. Garment-hanger. No. 48,067; Nov. 2; Gaz. vol. 220; p. 330.
 Lansing, Harry W., Los Angeles, Cal. Souvenir-penny of California. No. 47,537; July 6; Gaz. vol. 216; p. 318.
 Lasbar, Thomas B., assignor to International Silver Company, Bridgeport, Conn. Handle for spoons, forks, or similar articles. No. 47,364; May 18; Gaz. vol. 214; p. 1001.
 Lasbar, Thomas B., Bridgeport, Conn., assignor to The Associated Silver Company, Chicago, Ill. Handle for forks, spoons, or similar articles. No. 48,281; Dec. 14; Gaz. vol. 221; p. 707.
 Laskowska, Julia. (See Razny, Henry, assignor.)
 Latham, Dudley E., assignor to Double Grip Garter Company, Inc., New York, N. Y. Garter. No. 48,068; Nov. 2; Gaz. vol. 220; p. 330.
 Leab, Herbert J., assignor to Fisk Rubber Company, Chicopee Falls, Mass. Automobile-tire. No. 47,431; June 8; Gaz. vol. 215; p. 639.
 Leckler, Harry H., assignor to Emil Grossman M'fg Co. Inc., Brooklyn, N. Y. Automobile bumper-bar bracket-arm. No. 46,855; Jan. 12; Gaz. vol. 210; p. 693.
 Lederer, Joseph, New York, N. Y. Gas-lamp housing. No. 47,080; Mar. 9; Gaz. vol. 212; p. 671.
 Lehman, Max R., Quincy, Ill., assignor to Orbon Stove and Range Company, Belleville, Ill. Stove. Nos. 48,069-73; Nov. 2; Gaz. vol. 220; pp. 330-1.
 Lehmann, Edwin, Peoria, Ill. Bottle. Nos. 47,114-16; Mar. 16; Gaz. vol. 212; p. 1028.
 Lemiesz, John, Large, Pa. Pocket article. No. 47,492; June 22; Gaz. vol. 215; p. 1252.
 Lemon, James F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Padlock. Nos. 47,885-6; Sept. 28; Gaz. vol. 218; p. 1136.
 Leonard, Harry C., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Hinge for refrigerators. No. 47,000; Feb. 23; Gaz. vol. 211; p. 1237.
 Leonhardt, John S., Detroit, Mich. Broom or mop holder. No. 47,927; Oct. 5; Gaz. vol. 219; p. 255.
 Levin, Charles, New York, N. Y. Cut-glass dish. No. 48,117; Nov. 9; Gaz. vol. 220; p. 640.
 Levin, Max, Chicago, Ill. Ice-cream-cone server. No. 47,001; Feb. 23; Gaz. vol. 211; p. 1237.
 Levin, Samuel A., Chicago, Ill. Dental mold. No. 47,493; June 22; Gaz. vol. 215; p. 1252.
 Levy, Alexander S., Philadelphia, Pa. Beehive-button. No. 47,466; June 15; Gaz. vol. 215; p. 968.
 Lewis, Le Roy C., assignor to Koehler & Hinrichs Company, St. Paul, Minn. Plate or similar article. No. 47,337; May 11; Gaz. vol. 214; p. 658.
 Lewis, William J., Flint, Mich. Flat-fastener. No. 47,853; Sept. 21; Gaz. vol. 218; p. 860.
 Liberty Bell Company. (See White, Franklin C., assignor.)
 Liedberg, Carl E., Chicago, Ill. Parasol. No. 47,246; Apr. 20; Gaz. vol. 213; p. 1089.
 Lindemann, Albert J., Milwaukee, Wis. Stove. No. 48,118; Nov. 9; Gaz. vol. 220; p. 640.
 Lindsay, John H., Buffalo, N. Y. Portable stationery-holder. No. 46,984; Feb. 16; Gaz. vol. 211; p. 941.
 Liska, John, Ovid, Mich. Fly-catcher. No. 48,186; Nov. 23; Gaz. vol. 220; p. 1345.
 Littlefield, Lemuel A., assignor to Rockford Silver Plate Company, Rockford, Ill. Handle for spoons, forks, or similar articles. No. 47,733; Aug. 17; Gaz. vol. 217; p. 1011.
 Livengood, Clarence E., and C. W. Baldwin, Meyersdale, Pa. Talking-machine cabinet. No. 48,003; Oct. 19; Gaz. vol. 219; p. 890.
 Livingston, D. M., New York, N. Y. Radiator-mask. No. 48,323; Dec. 21; Gaz. vol. 221; p. 1015.
 Livingston, D. M., New York, N. Y. Radiator-hood. No. 47,162; Mar. 30; Gaz. vol. 212; p. 1661.
 Livingston, D. M., New York, N. Y. Automobile-hood. No. 47,854; Sept. 21; Gaz. vol. 218; p. 860.
 Lloyd, Alphonzo, Washington, Pa., assignor to The R. T. French Company, Rochester, N. Y. Bottle or jar. No. 47,002; Feb. 23; Gaz. vol. 211; p. 1237.
 Lloyd-Garrett Company. (See Morrell, Frederick C., assignor.)
 Loeb, William, Providence, R. I. Ring, bracelet, pin, button, or similar article of jewelry. No. 47,163; Mar. 30; Gaz. vol. 212; p. 1661.
 Logan, William J., Cleveland, Ohio. Grave-marker. Nos. 47,887-8; Sept. 28; Gaz. vol. 218; pp. 1136-7.
 Logan, William J., Cleveland, Ohio. Grave-marker. No. 48,187; Nov. 23; Gaz. vol. 220; p. 1345.
 Long, Boaz W., Las Vegas, N. Mex., assignor, by mesne assignments, of one-half to J. C. Smith and one-half to R. H. Rice, Chicago, Ill. Electric lamp globe. No. 46,952; Feb. 16; Gaz. vol. 211; p. 934.
 Long, Herbert J., assignor to The Long-Landreth-Schneider Company, New Brunswick, N. J. Water-heater. No. 47,960; Oct. 12; Gaz. vol. 219; p. 570.
 Long-Landreth-Schneider Company, The. (See Long, Herbert J., assignor.)
 Lott, Hermann H., St. Louis, Mo. Jewelry-ring. Nos. 48,074-5; Nov. 2; Gaz. vol. 220; p. 331.
 Lowe, Edward L., Moorhead, Minn. Scrip-stamp. No. 47,602; July 20; Gaz. vol. 216; p. 1000.
 Lowery, Theodore J., Washington, D. C. Spoon. No. 47,305; May 4; Gaz. vol. 214; p. 319.
 Ludwig, John O., Cincinnati, assignor to The Schuster Company, Cleveland, Ohio. Flask. No. 47,795; Sept. 7; Gaz. vol. 218; p. 291.
 Luminous Unit Company. (See Chassaing, Joseph, assignor.)
 Luminous Unit Company. (See Guth, Edwin F., assignor.)
 Luminous Unit Company. (See Guth and Owen, assignors.)
 Luminous Unit Company. (See Owen, Raymond V., assignor.)
 Lunt, George C., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Handle for spoons, forks, or similar articles. No. 47,365; May 18; Gaz. vol. 214; p. 1001.
 Luten, Daniel B., Indianapolis, Ind. Concrete bridge. No. 47,928; Oct. 5; Gaz. vol. 219; p. 255.
 Lux, William W., Detroit, Mich., assignor to United States Tire Company, Tire. No. 46,953; Feb. 16; Gaz. vol. 211; p. 935.
 Luyties, Herman C., St. Louis, Mo. Bottle. No. 48,119; Nov. 9; Gaz. vol. 220; p. 640.
 Lynch, David W., Lancaster, Pa. Rocking-horse. No. 47,117; Mar. 16; Gaz. vol. 212; p. 1029.
 Lynch, George C., New York, N. Y. Lamp-shade. No. 47,646; July 27; Gaz. vol. 216; p. 1309.
 Lynch, George C., New York, N. Y. Lamp-shade. No. 48,228; Nov. 30; Gaz. vol. 220; p. 1698.
 Lyons, Frank. (See Pigott, Thomas K., assignor.)
 MacMillan, John A., Dayton, Ohio. Core for vehicle-tires. No. 46,884; Jan. 26; Gaz. vol. 210; p. 1350.
 Macbeth-Evans Glass Co. (See Hawe, William F. M., assignor.)
 Maddock & Miller. (See Picault, Edmond, assignor.)
 Maerz, Frederick K., Cleveland, Ohio. Ring for electric-lighting fixtures. No. 48,035; Oct. 26; Gaz. vol. 219; p. 1210.
 Maerz, Frederick K., Cleveland, Ohio. Canopy and socket cover for electric-lighting fixtures. No. 48,036; Oct. 26; Gaz. vol. 219; p. 1210.
 Maerz, Frederick K., Cleveland, Ohio. Ring for electric-lighting fixtures. No. 48,037; Oct. 26; Gaz. vol. 219; p. 1210.
 Maixner, Frederick J., New York, N. Y. Illuminated-sign frame. No. 46,885; Jan. 26; Gaz. vol. 210; p. 1350.
 Makhoulian, Sarkis, Haverhill, Mass. Shovel. No. 46,868; Jan. 19; Gaz. vol. 210; p. 1044.
 Mallinson, Hiram R., New York, N. Y. Textile fabric. No. 47,338; May 11; Gaz. vol. 214; p. 659.
 Mallinson, Hiram R., New York, N. Y. Textile fabric. No. 47,889; Sept. 28; Gaz. vol. 218; p. 1137.
 Mallinson, Hiram R., New York, N. Y. Textile fabric. No. 48,077; Nov. 2; Gaz. vol. 220; p. 331.
 Mallinson, Hiram R., New York, N. Y. Textile fabric. No. 48,120; Nov. 9; Gaz. vol. 220; p. 640.
 Mancini, Nicola, Long Island City, N. Y. Carriage. No. 48,121; Nov. 9; Gaz. vol. 220; p. 640.
 Manning, Bowman & Company. (See Farr, Edward A., assignor.)
 Manovill, Bernard, St. Louis, Mo. Savings-bank. No. 47,929; Oct. 5; Gaz. vol. 219; p. 256.
 Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Battery-casing. No. 47,538; July 6; Gaz. vol. 216; p. 318.
 Mantel, Gustaf, Chicago, Ill. Zither-box. No. 47,003; Feb. 23; Gaz. vol. 211; p. 1238.
 Mapel, Lewis A., St. Louis, Mo. Toy. No. 47,796; Sept. 7; Gaz. vol. 218; p. 291.
 Marcuse, Moses M., New York, N. Y., assignor to West Disinfecting Company, Casing for soap-distributors. No. 47,366; May 18; Gaz. vol. 214; p. 1002.
 Margolin, Hyman, New York, N. Y. Hand-bag or similar article. No. 47,824; Sept. 14; Gaz. vol. 218; p. 581.
 Markels, Leonard, assignor to Champion Graphophone Company, Inc., New York, N. Y. Phonograph box or cabinet. No. 48,188; Nov. 23; Gaz. vol. 220; p. 1345.
 Marrs, Huston H. and H. J., Denver, Colo. Napkin-dispenser. No. 46,911; Feb. 2; Gaz. vol. 211; p. 256.
 Marrs, Huston J. (See Marrs, Huston H. and H. J.)
 Martin, Alfred, South Bend, Ind. Curtain-pole and shade-roll support. No. 47,004; Feb. 23; Gaz. vol. 211; p. 1238.
 Martin, Clifford A., New York, assignor to J. H. Williams & Co., Brooklyn, N. Y. Face spanner-wrench. No. 47,855; Sept. 21; Gaz. vol. 218; p. 860.
 Martin, George J., Newton, Mass. Curtain. No. 46,912; Feb. 2; Gaz. vol. 211; p. 256.
 Massey, Como D. (See Fisher and Massey.)
 Masson, Margaret, assignor to The Watson Company, Attleboro, Mass. Handle for spoons, forks, or similar articles. No. 47,432; June 8; Gaz. vol. 215; p. 639.
 May, Elgin C., Edmonton, Alberta, Canada. Vehicle wheel-tire. No. 47,890; Sept. 28; Gaz. vol. 218; p. 1137.
 Mayberry, Edward D., Alta Vista, Va. Railway-crossing signal. No. 47,190; Apr. 6; Gaz. vol. 213; p. 327.

- Mayer China Company, The. (See Johnson, William T., assignor.)
- Mayfair, Inc. (See Murphy, Sarah L., assignor.)
- McAllister, Patrick J., Columbus, assignor to The Toystore Company, Cleveland, Ohio. Toy store. No. 47,044; Mar. 2; Gaz. vol. 212; p. 303.
- McCabe, William, New York, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. No. 47,603; July 20; Gaz. vol. 216; p. 1000.
- McCall, Jacob C., Fort Worth, Tex. Search-light. No. 48,282; Dec. 14; Gaz. vol. 221; p. 707.
- McClelland, John, Kansas City, Mo. Frame for closet-partitions. No. 46,883; Jan. 26; Gaz. vol. 210; p. 1350.
- McClelland, Robert E., Springfield, Ill. Calculator-casing. No. 46,933; Feb. 9; Gaz. vol. 211; p. 611.
- McCray Refrigerator Company. (See Ullin, Charles O., assignor.)
- McLarty, Edward, Akron, Ohio. Chair. No. 48,324; Dec. 21; Gaz. vol. 221; p. 1016.
- McDermott, Edward W., administrator. (See Mihills, Merrick.)
- McDonagh, Leo A., Linden, N. J. Badge. No. 47,247; Apr. 20; Gaz. vol. 213; p. 1089.
- McDonald, Howard C., Buffalo, N. Y. Hanging toilet-rack. No. 47,891; Sept. 28; Gaz. vol. 218; p. 1137.
- McDonough, William H., Deming, N. Mex. Pan-lifter. No. 47,961; Oct. 12; Gaz. vol. 219; p. 570.
- McKee Glass Company. (See Blaze, Joseph D., assignor.)
- McKee Glass Company. (See Sailor, George D., assignor.)
- McKee, Louis H., Trenton, N. J. School-desk. No. 48,076; Nov. 2; Gaz. vol. 220; p. 331.
- McKenna, Thomas R., East Palestine, Ohio. Tire-casing. No. 47,139; Mar. 23; Gaz. vol. 212; p. 1328.
- McKenzie, Germaine B., Tredinock, Pa. Badge or similar ornament. No. 47,647; July 27; Gaz. vol. 216; p. 1309.
- McKinnie, Earle C., Chicago, Ill. Illuminating-chandelier. No. 48,034; Oct. 26; Gaz. vol. 219; p. 1209.
- McMillan, John W., Marshfield, Mass. Casing for weighing-machines. No. 47,539; July 6; Gaz. vol. 216; p. 318.
- McNaull, William D., Toledo, Ohio. Tire-tread. No. 47,467; June 15; Gaz. vol. 215; p. 968.
- McNeill, John, assignor to Arthe, Levy, Bernhard Company, New York, N. Y. Parasol. No. 47,164; Mar. 30; Gaz. vol. 212; p. 1662.
- McTavish, Daniel D., assignor to Canada Carbide Company, Limited, Montreal, Quebec, Canada. Drum for containing material. No. 47,191; Apr. 6; Gaz. vol. 213; p. 328.
- Meier, Edward C., Phoenixville, Pa. Hand-hole plate. No. 47,468; June 15; Gaz. vol. 215; p. 968.
- Meier, Edward C., Phoenixville, Pa. Hand-hole yoke. No. 47,753; Aug. 24; Gaz. vol. 217; p. 1317.
- Meler, Edward C., Phoenixville, Pa. Furnace-tile. No. 47,930; Oct. 5; Gaz. vol. 219; p. 256.
- Meier, Edward C., Phoenixville, Pa. Hand-hole plate. No. 47,931; Oct. 5; Gaz. vol. 219; p. 256.
- Melba Manufacturing Company. (See Miles, Francis J. M., assignor.)
- Mendel, Julius L. (See Bergman and Mendel.)
- Menge, William, Jr., assignor to Dolgeville Felt Shoe Company, Dolgeville, N. Y. Shoe. Nos. 48,189-90; Nov. 23; Gaz. vol. 220; pp. 1345-6.
- Menns, Albert W., Malden, assignor to Operatone Phonograph Company, Boston, Mass. Phonograph-cabinet. No. 48,325; Dec. 21; Gaz. vol. 221; p. 1016.
- Merriman, Charles F., Minneapolis, Minn. Radiator-register. No. 47,754; Aug. 24; Gaz. vol. 217; p. 1317.
- Merry, John, New York, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. No. 46,835; Jan. 5; Gaz. vol. 210; p. 371.
- Mersfelder, William L., Kennedy Heights, Ohio, assignor to The Star Foundry Company, Covington, Ky. Stove. No. 47,962; Oct. 12; Gaz. vol. 219; p. 570.
- Metal Arts & Crafts Co. (See Jones, Charles E., assignor.)
- Metzger, Henrietta V., and H. Von Hartz, Cleveland, Ohio. Jacket. No. 47,264; Apr. 27; Gaz. vol. 213; p. 1414.
- Meyercord Company, The. (See Abrams, William, assignor.)
- Meyercord Company, The. (See Albrecht, Paul, assignor.)
- Meyercord Company, The. (See Westerlind, Aksel, assignor.)
- Michelin Tire Co. (See Hauvette-Michelin, Jules, assignor.)
- Mihills, Merrick, deceased, Highland Park; E. W. McDermott, administrator, Waukegan, assignor to M. A. Mihills, Highland Park, Ill. Razor-strap holder. No. 47,386; May 25; Gaz. vol. 214; p. 1295.
- Mihills, Mina A. (See Mihills, Merrick, assignor.)
- Miles, Francis J. M., assignor to Melba Manufacturing Company, Chicago, Ill. Container for toilet powders. No. 48,078; Nov. 2; Gaz. vol. 220; p. 332.
- Milewski, Julius, Byrnedale, Pa. Badge or similar article. No. 47,248; Apr. 20; Gaz. vol. 213; p. 1089.
- Milkes, Leah G., Minneapolis, Minn. Sleeping-robe. No. 47,494; June 22; Gaz. vol. 215; p. 1252.
- Miller, Edson A., assignor to East Palestine Rubber Company, East Palestine, Ohio. Tire-casing. No. 47,265; Apr. 27; Gaz. vol. 213; p. 1414.
- Miller, Edward F., Washington, D. C. Athletic shoe. No. 47,238; Apr. 13; Gaz. vol. 213; p. 723.
- Miller, George W., and E. S. George, Detroit, Mich. Fence-panel. Nos. 47,005-6; Feb. 23; Gaz. vol. 211; p. 1238.
- Miller, John C., Cincinnati, Ohio. Emblem or similar article. No. 47,387; May 25; Gaz. vol. 214; p. 1295.
- Miller Lock Company. (See Jackson, Arthur C., assignor.)
- Miller, Owen, St. Louis, Mo., assignor to The American Federation of Musicians. Emblem. No. 46,954; Feb. 16; Gaz. vol. 211; p. 935.
- Miller Rubber Co., The. (See Brucker, Ferdinand F., assignor.)
- Miller Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Bathing-cap. Nos. 47,165-8; Mar. 30; Gaz. vol. 212; p. 1662.
- Mintie, Fred C., Chicago, Ill. Button. No. 47,734; Aug. 17; Gaz. vol. 217; p. 1011.
- Mischler, William, Brooklyn, N. Y., assignor to E. G. Webster & Son, Inc. Pitcher. No. 48,354; Dec. 28; Gaz. vol. 221; p. 1425.
- Mitchell, Edward, St. Charles, assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-pan for lighting-fixtures. No. 47,266; Apr. 27; Gaz. vol. 213; p. 1415.
- Mme. Ise'bells' Toilet Manufacturing Co. (See Orem, William, assignor.)
- Moberg, Oscar, assignor to Landers, Frary & Clark, New Britain, Conn. Display-stand. No. 46,934; Feb. 9; Gaz. vol. 211; p. 611.
- Mohr, Otto H., Kentfield, assignor to Mohrlite Company, San Francisco, Cal. Street-lighting fixture. No. 46,955; Feb. 16; Gaz. vol. 211; p. 935.
- Mohrlite Company. (See Mohr, Otto H., assignor.)
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-pan for lighting-fixtures. No. 47,249; Apr. 20; Gaz. vol. 213; p. 1089.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-pan for lighting-fixtures. Nos. 47,267-70; Apr. 27; Gaz. vol. 213; pp. 1415-16.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Bowl for indirect lighting. No. 47,271; Apr. 27; Gaz. vol. 213; p. 1416.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Support for bowls for indirect lighting. No. 47,272; Apr. 27; Gaz. vol. 213; p. 1416.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Back plate for lighting-fixtures. No. 47,273; Apr. 27; Gaz. vol. 213; p. 1416.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Canopy for lighting-fixtures. No. 47,274; Apr. 27; Gaz. vol. 213; p. 1416.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Back plate for lighting-fixtures. No. 47,275; Apr. 27; Gaz. vol. 213; p. 1417.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-pan for lighting-fixtures. No. 47,339; May 11; Gaz. vol. 214; p. 659.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Ridge-roll finish. No. 47,388; May 25; Gaz. vol. 214; p. 1295.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Back plate for lighting-fixtures. No. 47,540; July 6; Gaz. vol. 216; p. 319.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-plate for lighting-fixtures. No. 47,604; July 20; Gaz. vol. 216; p. 1000.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-plate for lighting-fixtures. No. 47,670; Aug. 3; Gaz. vol. 217; p. 244.
- Molke, Herman, Jr., New York, N. Y. Flower-pot holder. No. 48,355; Dec. 28; Gaz. vol. 221; p. 1425.
- Monasch, Charles P. (See Kekkonen, John, assignor.)
- Mooney, Frank. (See Mooney, Norman J. and F.)
- Mooney, Norman J. and F., San Francisco, Cal. Rubber-tire tread. No. 47,963; Oct. 12; Gaz. vol. 219; p. 570.
- Moore, Guernsey, Swarthmore, Pa., assignor to Hotel Traymore Company, Atlantic City, N. J. Article of manufacture. No. 47,433; June 8; Gaz. vol. 215; p. 639.
- Moore, Judson, Bainbridge, Ga. Shoe-display rack. No. 47,797; Sept. 7; Gaz. vol. 218; p. 291.
- Morgan, Charles, assignor to Arcade Manufacturing Company, Freeport, Ill. Frame for cork-pullers. No. 47,755; Aug. 24; Gaz. vol. 217; p. 1317.
- Morgan, Charles, assignor to Arcade Manufacturing Company, Freeport, Ill. Frame for lemon-squeezers. No. 47,932; Oct. 5; Gaz. vol. 219; p. 256.
- Morrell, Frederick C., assignor to Lloyd-Garrett Company, Philadelphia, Pa. Electric-light hanger-fixture. No. 48,158; Nov. 16; Gaz. vol. 220; p. 1013.
- Morris, Madge C., Catford, London, England. Cover for drivers of motor-cars, motor-busses, or the like vehicles. No. 47,306; May 4; Gaz. vol. 214; p. 319.
- Moyer, Horace C., Oak Park, assignor to The Windsor Furniture Company, Chicago, Ill. Talking-machine cabinet. No. 48,122; Nov. 9; Gaz. vol. 220; p. 641.
- Mueller Brothers Art and Manufacturing Company. (See Whitson, Peter E., assignor.)
- Mueller, Robert, assignor to H. Mueller Mfg. Co., Decatur, Ill. Hose-washer. No. 48,004; Oct. 19; Gaz. vol. 219; p. 890.
- Murdock, Alfred W., New York, N. Y., and A. J. Dougherty, Jr., West New York, N. J. Display-cabinet. No. 47,776; Aug. 31; Gaz. vol. 217; p. 1645.

Alphabetical list of patentees of designs—Continued.

- Murphy, Francis H., assignor to Portland Railway Light and Power Company, Portland, Oreg. Bracket and lamp for street illumination. No. 46,913; Feb. 2; Gaz. vol. 211; p. 256.
- Murphy, Sarah L., assignor to Mayfair, Inc., New York, N. Y. Twine-holder. No. 47,081; Mar. 9; Gaz. vol. 212; p. 671.
- Myers, Roy J., San Diego, Cal. Front fender. No. 47,340; May 11; Gaz. vol. 214; p. 659.
- Myers, Burton D., assignor to Simeon L. and George H. Rogers Co., Wallingford, Conn. Spoon, fork, or similar article. No. 48,283; Dec. 14; Gaz. vol. 221; p. 707.
- Nash, John J., assignor to American Pin Company, Waterbury, Conn. Shade-holder. No. 46,956; Feb. 16; Gaz. vol. 211; p. 935.
- Nash, John J., assignor to American Pin Company, Waterbury, Conn. Bracket-canopy. No. 46,957; Feb. 16; Gaz. vol. 211; p. 935.
- Nash, John J., assignor to American Pin Company, Waterbury, Conn. Back-plate. No. 46,958; Feb. 16; Gaz. vol. 211; p. 936.
- Nash, John J., assignor to American Pin Company, Waterbury, Conn. Shower-plate. No. 46,959; Feb. 16; Gaz. vol. 211; p. 936.
- Nash, John J., assignor to The American Pin Company, Waterbury, Conn. Bed-trimming. No. 47,469; June 15; Gaz. vol. 215; p. 968.
- Nash, John J., assignor to American Pin Company, Waterbury, Conn. Bedstead-trimming. Nos. 47,856-8; Sept. 21; Gaz. vol. 218; pp. 860-1.
- Nash, John J., assignor to The American Pin Company, Waterbury, Conn. Neck for bed-trimmings. No. 48,038; Oct. 26; Gaz. vol. 219; p. 1210.
- National Metal Spinning & Stamping Company. (See Tepfer, Albert E., assignor.)
- National Metal Spinning & Stamping Company. (See Tepfer, George M., assignor.)
- National X-Ray Reflector Company. (See Hotchkiss, Paul M., assignor.)
- Neal, Harry W., Indianapolis, Ind. Register-shield. No. 47,541; July 6; Gaz. vol. 216; p. 310.
- Needham Tire Company. (See Patterson, John S., assignor.)
- Nelson, Ray G., Seattle, Wash. Pipe. No. 47,007; Feb. 23; Gaz. vol. 211; p. 1238.
- New York Belting & Packing Company. (See Coughlin, Edward J., assignor.)
- New York Mackintosh Clothing Company. (See Place, Charles H., assignor.)
- Newburyport Silver Company. (See Host, Walter H., assignor.)
- Newcome, Robert B., Amarillo, Tex. Bowl for fountain-syringes. No. 47,859; Sept. 21; Gaz. vol. 218; p. 861.
- Newcome, Robert B., Amarillo, Tex. Bowl for fountain-syringes. No. 48,159; Nov. 16; Gaz. vol. 220; p. 1013.
- Newhall, Henry B. (See Pleister, Henry W., assignor.)
- Newhall, Henry B., Jr., Plainfield, N. J. Paper-cutter or similar article. No. 46,869; Jan. 19; Gaz. vol. 210; p. 1044.
- Newkirk, Frank, New York, N. Y. Bolster and sham holder. No. 47,140; Mar. 23; Gaz. vol. 212; p. 1328.
- Newman, Simon S., New York, N. Y. Sanitary powder-receptacle. No. 47,605; July 20; Gaz. vol. 216; p. 1000.
- Newmyer, Arthur G., New Orleans, La. Image. No. 47,542; July 6; Gaz. vol. 216; p. 319.
- Newton, Albert E., Pawtucket, R. I., assignor to Regina Lace Company. Lace fabric. Nos. 48,005-6; Oct. 19; Gaz. vol. 219; pp. 890-1.
- Nielsen, Jens P. and K. K., Chicago, Ill. Pencil-clip. No. 48,326; Dec. 21; Gaz. vol. 221; p. 1016.
- Nielsen, Karl K. (See Nielsen, Jens P. and K. K.)
- Niper, Louis S., New York, N. Y. Medicine-spoon supporter. No. 48,039; Oct. 26; Gaz. vol. 219; p. 1210.
- Noble, Lionel C., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Rug. No. 47,141; Mar. 23; Gaz. vol. 212; p. 1328.
- Norden, Joseph. (See Norden, Mortimer, assignor.)
- Norden, Mortimer, assignor to J. Norden, New York, N. Y. Electric sign. No. 47,192; Apr. 6; Gaz. vol. 213; p. 328.
- Norden, Mortimer, assignor to J. Norden, New York, N. Y. Electric sign. No. 47,964; Oct. 12; Gaz. vol. 219; p. 571.
- Norkunas, Michael A., Brockton, Mass. Society-emblem. No. 46,960; Feb. 16; Gaz. vol. 211; p. 936.
- Novy, Frank G., Cleveland, Ohio. Vehicle-signal. No. 48,251; Dec. 7; Gaz. vol. 221; p. 319.
- Numan, Charles H., New York, N. Y. Combination desk-pad and inkstand. No. 47,495; June 22; Gaz. vol. 215; p. 1253.
- O. M. Edwards Company, The. (See Lemon, James F., assignor.)
- O'Brien, David J., Omaha, Nebr. Confectionery-box. No. 47,606; July 20; Gaz. vol. 216; p. 1000.
- O'Connor, Jerome F., New York, N. Y. Bottle. No. 47,565; July 13; Gaz. vol. 216; p. 655.
- O'Donnell, Thomas, Ironwood, Mich. Electric-lamp socket. No. 48,252; Dec. 7; Gaz. vol. 221; p. 319.
- Obert, Thomas W., assignor to Iroquois China Co., Syracuse, N. Y. Plate or similar article. No. 46,836; Jan. 5; Gaz. vol. 210; p. 372.
- Oehlke, Henry A., Lorain, Ohio. Collar-button. No. 47,543; July 6; Gaz. vol. 216; p. 319.
- Oldendorf, Frances, Riverside, Cal. Outing and sport hat. No. 47,544; July 6; Gaz. vol. 216; p. 319.
- Oneida Community. (See Allen, Grosvenor N., assignor.)
- Onondaga Pottery Co. (See Walter, Elmer E., assignor.)
- Onondaga Pottery Co. (See Wigley, John T., assignor.)
- Onondaga Pottery Company. (See Koch, Augustus J., assignor.)
- Operatone Phonograph Company. (See Menns, Albert W., assignor.)
- Operatone Phonograph Company. (See Shales, Alfred, assignor.)
- Orbon Stone and Range Company. (See Lehman, Max R., assignor.)
- Orday, Frank L., Salem, Mass. Toy pop-gun. No. 47,193; Apr. 6; Gaz. vol. 213; p. 328.
- Orem, William, Baltimore, Md., assignor to R. A. Carmichael & Co., Detroit, Mich. Perfume-bottle. No. 47,434; June 8; Gaz. vol. 215; p. 640.
- Orem, William, Baltimore, Md., assignor to Mme. Ise's bells' Toilet Manufacturing Co., Chicago, Ill. Bottle. No. 48,007; Oct. 19; Gaz. vol. 219; p. 891.
- Ormsby, Georgia C., Oakland, Cal. Doll. No. 47,496; June 22; Gaz. vol. 215; p. 1253.
- Osman, Henry J. (See Parker, Sidney E., assignor.)
- Ostby and Barton Company. (See Edwards, King, and Skipp, assignors.)
- Ota, Bunjiro, Paradise, Mont. Inkstand. No. 46,856; Jan. 12; Gaz. vol. 210; p. 693.
- Otstot, George, Springfield, Ohio. Toy. No. 47,045; Mar. 2; Gaz. vol. 212; p. 303.
- Ovens, James N., New York, N. Y. Dish or similar article. No. 47,142; Mar. 23; Gaz. vol. 212; p. 1328.
- Owen, Raymond V. (See Guth and Owen.)
- Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Canopy or reflector for artificial light. No. 47,521; June 29; Gaz. vol. 215; p. 1491.
- Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Reflector for artificial light. No. 47,522; June 29; Gaz. vol. 215; p. 1491.
- Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Canopy or reflector for artificial light. Nos. 47,523-4; June 29; Gaz. vol. 215; p. 1491.
- Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. Nos. 47,607-8; July 20; Gaz. vol. 216; p. 1001.
- Owen, Raymond V., assignor to Luminous Unit Company, St. Louis, Mo. Canopy or reflector for artificial light. Nos. 47,609-10; July 20; Gaz. vol. 216; p. 1001.
- Ozanne, Emile J., New York, N. Y., assignor to Regina Lace Company. Lace fabric. Nos. 47,566-8; July 13; Gaz. vol. 216; p. 655.
- Ozanne, Emile J., New York, N. Y., assignor to Regina Lace Company. Lace fabric. Nos. 47,825-6; Sept. 14; Gaz. vol. 218; pp. 581-2.
- Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Padlock. No. 47,239; Apr. 13; Gaz. vol. 213; p. 723.
- Page, Albert A., assignor to Sargent & Company, New Haven, Conn. Casing for door checks and closers. No. 48,327; Dec. 21; Gaz. vol. 221; p. 1016.
- Page, Alfred R., Birmingham, England. Door-knocker. Nos. 47,194-5; Apr. 6; Gaz. vol. 213; p. 328.
- Pagin, James R., Valparaiso, Ind. Lamp. No. 47,196; Apr. 6; Gaz. vol. 213; p. 329.
- Palder, Abraham, Boston, Mass. Tire-tread. No. 47,143; Mar. 23; Gaz. vol. 212; p. 1329.
- Palm Brothers Company, The. (See De Ville, Walter, assignor.)
- Palm, Fechteler & Co. (See Blhr, Alphonse, assignor.)
- Palm, Fechteler & Co. (See Frost, Percy T., assignor.)
- Palmer, James A., Cranston, assignor to Parks Bros. & Rogers, Providence, R. I. Button-head. No. 47,860; Sept. 21; Gaz. vol. 218; p. 861.
- Pararo, Constant T., Benhaden, Fla. Spike-gripping tool. No. 47,046; Mar. 2; Gaz. vol. 212; p. 303.
- Parker, George S., Salem, Mass. Playing-track of a board game. No. 48,008; Oct. 19; Gaz. vol. 219; p. 891.
- Parker, Sidney E., assignor of one-half to H. J. Osman, Southampton, England. Claw-hook. No. 47,008; Feb. 23; Gaz. vol. 211; p. 1238.
- Parkhurst, Leon F., Pittsfield, Mass., assignor to General Electric Company. Heating device. No. 48,123; Nov. 9; Gaz. vol. 220; p. 641.
- Parks Bros. & Rogers. (See Palmer, James A., assignor.)
- Parks, Frederick J., New York, N. Y. Envelope. No. 47,569; July 13; Gaz. vol. 216; p. 656.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Bale-tie buckle. No. 47,699; Aug. 10; Gaz. vol. 217; p. 654.
- Patten, James C., assignor to The Globe Stove & Range Company, Kokomo, Ind. Electric range. Nos. 48,191-3; Nov. 23; Gaz. vol. 220; p. 1346.
- Patterson, John S., Boston, assignor to Needham Tire Company, Needham, Mass. Tire-tread or similar article. No. 48,253; Dec. 7; Gaz. vol. 221; p. 320.
- Pax Manufacturing Company. (See Smallwood and Sergeant, assignors.)
- Payne, Fred E., assignor to Goodyear Rubber Company, Middletown, Conn. Rubber boot. No. 47,861; Sept. 21; Gaz. vol. 218; p. 862.

- Payne, Fred E., assignor to Goodyear Rubber Company. Middletown, Conn. Rubber shoe. No. 47,933; Oct. 5; Gaz. vol. 219; p. 256.
- Pearlman, Victor S., assignor to Victor S. Pearlman & Co., Chicago, Ill. Bowl for lighting-fixtures. Nos. 47,756-8; Aug. 24; Gaz. vol. 217; p. 1318.
- Perfect Window Regulator Company. (See Ternstedt, Alvar K., assignor.)
- Perkins, George H., Winthrop, assignor to Joseph W. Woods & Sons Company, Boston, Mass. Woven fabric or similar article. No. 47,671; Aug. 3; Gaz. vol. 217; p. 244.
- Petersen, Hans P., South Tacoma, Wash. Wrench. No. 47,435; June 8; Gaz. vol. 215; p. 640.
- Peterson, John, Minneapolis, Minn. Menu-holder. No. 48,079; Nov. 2; Gaz. vol. 220; p. 332.
- Peterson, Karl, Jamestown, N. Y. Member of a pair of pliers, cutters, and similar articles. No. 47,389; May 25; Gaz. vol. 214; p. 1295.
- Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 46,837-44; Jan. 5; Gaz. vol. 210; pp. 372-3.
- Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 46,961-3; Feb. 16; Gaz. vol. 211; pp. 936-7.
- Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 47,403-7; June 1; Gaz. vol. 215; pp. 293-4.
- Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 47,497-508; June 22; Gaz. vol. 215; pp. 1255-5.
- Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 47,570-1; July 13; Gaz. vol. 216; p. 656.
- Pfister, Jacob, Rochelle Park, N. J. Pipe-cleaner. No. 47,144; Mar. 23; Gaz. vol. 212; p. 1329.
- Phillips' Patents Limited. (See Phillips, Walter W., assignor.)
- Phillips, Walter W., assignor to Phillips' Patents Limited, London, England. India-rubber sole-pad for boots and shoes. Nos. 48,040-1; Oct. 26; Gaz. vol. 219; pp. 1210-11.
- Phillips, Walter W., assignor to Phillips' Patents Limited, London, England. Rubber heel-pad for footwear. No. 48,042; Oct. 26; Gaz. vol. 219; p. 1211.
- Phoenix Glass Company, The. (See Pickhardt, Harry, assignor.)
- Picault, Edmond, Stoke-upon-Trent, England, assignor to Maddock & Miller, New York, N. Y. Plate or similar article. No. 47,009; Feb. 23; Gaz. vol. 211; p. 1239.
- Pick, Albert, Chicago, Ill. Tumbler. No. 47,759; Aug. 24; Gaz. vol. 217; p. 1318.
- Pick, Hugo, Chicago, Ill. Tumbler. Nos. 47,798-800; Sept. 7; Gaz. vol. 218; pp. 291-2.
- Pickhardt, Harry, New York, N. Y., assignor to Phoenix Glass Company, Pittsburgh, Pa. Lighting-fixture. Nos. 46,964-6; Feb. 16; Gaz. vol. 211; p. 937.
- Pickhardt, Harry, New York, N. Y., assignor to The Phoenix Glass Company, Pittsburgh, Pa. Shade for electric lights. No. 47,867; May 18; Gaz. vol. 214; p. 1002.
- Pickhardt, Harry, New York, N. Y., assignor to The Phoenix Glass Company, Pittsburgh, Pa. Lighting-fixture. No. 47,934; Oct. 5; Gaz. vol. 219; p. 257.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Frame for gas-plates. No. 47,197; Apr. 6; Gaz. vol. 213; p. 329.
- Piggott, Thomas K., Puyallup, assignor of two-fifths to F. Lyons, Tacoma, Wash. Pair of scissors. No. 47,735; Aug. 17; Gaz. vol. 217; p. 1011.
- Pinney, George H., South Manchester, Conn., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn. Spoon, fork, and similar article. No. 47,470; June 15; Gaz. vol. 215; p. 969.
- Pittsburgh Lamp, Brass & Glass Company. (See Ewing, Robert E., assignor.)
- Pittsburgh Lamp, Brass & Glass Company. (See Kopp and Ewing, assignors.)
- Place, Charles H., Mamaroneck, assignor to New York Mackintosh Clothing Company, New York, N. Y. Water-bag. No. 47,827; Sept. 14; Gaz. vol. 218; p. 582.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Handle for paper-cutters or similar articles. No. 48,124; Nov. 9; Gaz. vol. 220; p. 641.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Shield or similar article. Nos. 48,254-7; Dec. 7; Gaz. vol. 221; p. 320.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall. Anchor or similar article. Nos. 48,258-64; Dec. 7; Gaz. vol. 221; pp. 320-2.
- Plume & Atwood Manufacturing Company, The. (See Andersen, Lauritz W., assignor.)
- Plymouth Mills. (See Read, Harry A. S., assignor.)
- Podmore, Arthur J., Camden, N. J., assignor to Camden Pottery Company. Flush-tank. No. 47,611; July 20; Gaz. vol. 216; p. 1001.
- Pomeroy, George, assignor to Travelers' Aid Society of California, San Francisco, Cal. Badge. No. 46,967; Feb. 16; Gaz. vol. 211; p. 937.
- Popper, Hugo, Chicago, Ill. Cutting-blade for can-openers. No. 46,886; Jan. 26; Gaz. vol. 210; p. 1350.
- Portage Rubber Company, The. (See Christy, James, assignor.)
- Porter, William C., McCall Creek, Miss. Awl. No. 47,893; Sept. 28; Gaz. vol. 218; p. 1137.
- Portland Railway Light and Power Company. (See Murphy, Francis H., assignor.)
- Portland Sales Company. (See Seamon, Percy R., assignor.)
- Post, Cornelia M., Philadelphia, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oil-cloth, or floor-covering. No. 47,341; May 11; Gaz. vol. 214; p. 659.
- Potter & Buffington Company. (See Ladd, Louis E., assignor.)
- Potter, John S., and A. Tough, Niagara Falls, Ontario, Canada. Pennant. No. 47,894; Sept. 28; Gaz. vol. 218; p. 1138.
- Powell, Edward T. (See Hickish, Robert S., assignor.)
- Powell, William B., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Card. No. 47,828; Sept. 14; Gaz. vol. 218; p. 582.
- Powell, William L., Roanoke, Va. Clamp for bed-covers. No. 48,125; Nov. 9; Gaz. vol. 220; p. 641.
- Preston, Alston L., Leominster, Mass. Hair ornament. No. 47,198; Apr. 6; Gaz. vol. 213; p. 329.
- Pretat, Frederick E., Waterbury, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 47,010; Feb. 23; Gaz. vol. 211; p. 1239.
- Price, James E., Pueblo, Colo. Fob. No. 47,145; Mar. 23; Gaz. vol. 212; p. 1329.
- Price, Joshua H., Des Moines, Iowa. Hat-pin, button, cuff-link, or similar article of jewelry. No. 48,080; Nov. 2; Gaz. vol. 220; p. 332.
- Procinier, William L., Chicago, Ill. Tap-chuck. No. 47,199; Apr. 6; Gaz. vol. 213; p. 329.
- Provance, David F., New Castle, assignor to Beaver Valley Glass Company, Rochester, Pa. Glass vessel or similar article. No. 48,081; Nov. 2; Gaz. vol. 220; p. 332.
- Public Service Cup Co. (See La Rue, Charles W., assignor.)
- Public Service Cup Company. (See Errett, Charles, assignor.)
- Quackenbush, Grace M., New York, N. Y. Panel for children's furniture, bedsteads, fences, and similar toys. No. 47,471; June 15; Gaz. vol. 215; p. 969.
- Quackenbush, Grace M., New York, N. Y. Gate for children's fences. No. 47,472; June 15; Gaz. vol. 215; p. 969.
- Quackenbush, Grace M., New York, N. Y. Post for children's toys, furniture, and fences. No. 48,043; Oct. 26; Gaz. vol. 219; p. 1211.
- Query, Harry G., Shelbyville, Ind. Calendar-frame. No. 47,862; Sept. 21; Gaz. vol. 218; p. 862.
- Quinn, John L., Los Angeles, assignor to Standard Oil Company, Richmond, Cal. Sign. No. 47,965; Oct. 12; Gaz. vol. 219; p. 571.
- R. Wallace & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)
- R. A. Carmichael & Co. (See Orem, William, assignor.)
- R. T. French Company, The. (See French, George J., assignor.)
- R. T. French Company, The. (See Lloyd, Alphonzo, assignor.)
- Raesser, Lydia, Milwaukee, Wis. Server. No. 46,845; Jan. 5; Gaz. vol. 210; p. 373.
- Railway Specialties Company. (See Bell, John A., assignor.)
- Ramsing, William, Schenectady, N. Y. Table or mantel ornament. No. 47,801; Sept. 7; Gaz. vol. 218; p. 292.
- Rappaport, Paul, New York, N. Y. Display-case. No. 47,829; Sept. 14; Gaz. vol. 218; p. 582.
- Rathner, Gustave, New York, N. Y., assignor to E. R. Kleemichen, Stamford, Conn. Altar. No. 48,009; Oct. 19; Gaz. vol. 219; p. 891.
- Rau, Fritz, assignor to Labhard & Company, St. Gallen, Switzerland. Embroidered trimming. Nos. 47,648-9; July 27; Gaz. vol. 216; p. 1309.
- Raymann, Hugo W., Portland, Ore. Tire. No. 47,612; July 20; Gaz. vol. 216; p. 1001.
- Raymann, Hugo W., Portland, Ore. Tire. No. 47,830; Sept. 14; Gaz. vol. 218; p. 582.
- Raymond, John D., Chicago, Ill. Lighting-fixture. No. 48,082; Nov. 2; Gaz. vol. 220; p. 332.
- Razny, Henry, assignor of one-third to J. Laskowska, Detroit, Mich. Toy. No. 47,011; Feb. 23; Gaz. vol. 211; p. 1239.
- Read, Harry A. S., Lawrence, Mass., assignor to Plymouth Mills, New York, N. Y. Rug. Nos. 47,613-19; July 20; Gaz. vol. 216; pp. 1002-3.
- Read, Harry A. S., assignor to Plymouth Mills, Lawrence, Mass. Rug. Nos. 48,194-200; Nov. 23; Gaz. vol. 220; pp. 1346-7.
- Read, Willard H., Troy, N. Y. Score-board. No. 47,422; June 8; Gaz. vol. 215; p. 638.
- Reaves, John S., and James G. Wells, Anniston, Ala. Grocery-bin. No. 47,806; Sept. 7; Gaz. vol. 218; p. 293.
- Reed, William B., assignor to The H. B. Smith Company, Westfield, Mass. Radiator-section. No. 48,044; Oct. 26; Gaz. vol. 219; p. 1211.
- Reed, William B., assignor to The H. B. Smith Company, Westfield, Mass. Radiator. No. 48,045; Oct. 26; Gaz. vol. 219; p. 1211.

Alphabetical list of patentees of designs—Continued.

- Refermat, Michael, Buffalo, N. Y. Weapon. No. 47,700; Aug. 10; Gaz. vol. 217; p. 654.
- Regina Lace Company. (See Newton, Albert E., assignor.)
- Regina Lace Company. (See Ozanne, Emile J., assignor.)
- Reischmann, Henry R., New York, N. Y. Counter-stool. No. 47,966; Oct. 12; Gaz. vol. 219; p. 571.
- Reischmann, Henry R., New York, N. Y. Counter-stool foot-rest. No. 48,010; Oct. 19; Gaz. vol. 219; p. 891.
- Reiser, Alfred W., assignor to The Western Gas Fixture Company, Toledo, Ohio. Chandelier cluster-hook. No. 47,620; July 20; Gaz. vol. 216; p. 1003.
- Reiser, Alfred W., assignor to The Western Gas Fixture Company, Toledo, Ohio. Chandelier arm-hook. No. 47,621; July 20; Gaz. vol. 216; p. 1003.
- Reiser, Alfred W., assignor to The Western Gas Fixture Company, Toledo, Ohio. Glass bowl for lighting-fixtures. No. 48,083; Nov. 2; Gaz. vol. 220; p. 333.
- Reiser, Alfred W., assignor to The Western Gas Fixture Company, Toledo, Ohio. Lighting-fixture. No. 48,084; Nov. 2; Gaz. vol. 220; p. 333.
- Reiser, Alfred W., assignor to The Western Gas Fixture Company, Toledo, Ohio. Glass shade for electric lights. No. 48,126; Nov. 9; Gaz. vol. 220; p. 641.
- Reiser, Alfred W., assignor to The Western Gas Fixture Company, Toledo, Ohio. Chandelier cluster-hook. No. 48,127; Nov. 9; Gaz. vol. 220; p. 641.
- Reitler, Charles W., Denver, Colo. Pencil. No. 47,473; June 15; Gaz. vol. 215; p. 969.
- Reliance Metal Spinning Company. (See Schwartzman, Benjamin, assignor.)
- Reinicker, George G. (See Ingalls, Joseph B., assignor.)
- Renwick, Anna C., Flushing, N. Y. Doll. No. 47,408; June 1; Gaz. vol. 215; p. 294.
- Reybet, George, assignor to W. & J. Sloane, New York, N. Y. Carpet. No. 48,229; Nov. 30; Gaz. vol. 220; p. 1698.
- Ricciardelli, Fiore, Jersey City, N. J., and J. B. Bleichrode, Brooklyn, N. Y., assignors to Crystal Percolator Company, Inc., New York, N. Y. Percolator. No. 47,545; July 6; Gaz. vol. 216; p. 319.
- Rice, Arlo E., Marcus, Iowa. Alligator-wrench. No. 48,230; Nov. 30; Gaz. vol. 220; p. 1699.
- Rice, Arlo E., Olivet, S. D. Combination-tool. No. 48,231; Nov. 30; Gaz. vol. 220; p. 1699.
- Rice, Robert H., et al. (See Long, Boaz W., assignor.)
- Rich, Louis, Rochester, Pa. Sign. No. 48,328; Dec. 21; Gaz. vol. 221; p. 1016.
- Richard, Francois, Cleveland, Ohio. Automobile-body. No. 47,895; Sept. 28; Gaz. vol. 218; p. 1138.
- Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. Nos. 47,622-5; July 20; Gaz. vol. 216; p. 1004.
- Riker, Samuel M., Chester, N. J. Pen or pencil clip. No. 47,896; Sept. 28; Gaz. vol. 218; p. 1138.
- Ritscher, Charles H., Glen Ridge, N. J., assignor to Campbell, Metzger & Jacobson, New York, N. Y. Textile fabric. No. 47,546; July 6; Gaz. vol. 216; p. 320.
- Roach, James C., assignor of one-half to E. D. Very, New York, N. Y. Bottle. No. 47,650; July 27; Gaz. vol. 216; p. 1309.
- Robert Gair Company. (See Gair, Robert, assignor.)
- Roberts, Park D., St. Joseph, Mo. Ice-cream cone. No. 47,436; June 8; Gaz. vol. 215; p. 640.
- Robinson, Charles C. (See Hill and Robinson.)
- Rochester Stamping Company. (See Cross, Fred J., assignor.)
- Rockford Silver Plate Company. (See Littlefield, Lemuel A., assignor.)
- Rockwell, Albert F., Bristol, Conn. Automobile. No. 47,802; Sept. 7; Gaz. vol. 218; p. 292.
- Rogers, Lunt & Bowlen Company. (See Lunt, George C., assignor.)
- Rogers & Thompson. (See Kroeger, John F. W., assignor.)
- Root Glass Company. (See Samuelson, Alexander, assignor.)
- Rose, James, Lancaster, Pa. Parasol. No. 47,525; June 29; Gaz. vol. 215; p. 1491.
- Rosenau, Frankel & Co. (See Jarvis, David, Jr., assignor.)
- Rosenbaum, Louis, New York, N. Y. Handle and guard for sad-irons. No. 46,857; Jan. 12; Gaz. vol. 210; p. 1699.
- Rosenberger, Carl, assignor to Cohn & Rosenberger, New York, N. Y. Ring. No. 48,232; Nov. 30; Gaz. vol. 220; p. 1699.
- Rosenblatt, Byron S., Chicago, Ill. Nutcracker. No. 47,831; Sept. 14; Gaz. vol. 218; p. 582.
- Rosenfield, William W., New York, N. Y. Suction-cleaner casing. No. 47,409; June 1; Gaz. vol. 215; p. 295.
- Ross, John, New York, N. Y. Quilted article. No. 47,651; July 27; Gaz. vol. 216; p. 1310.
- Rothlisberger, Jacob, Muncie, Ind., assignor to W. D. Smith Silver Co. Spoon, fork, or similar article. No. 47,760; Aug. 24; Gaz. vol. 217; p. 1318.
- Rottger, William H., Farmington, Mo. Attaching-plate for hames. No. 47,967; Oct. 12; Gaz. vol. 219; p. 571.
- Roys, Herman E., New York, N. Y., assignor, by mesne assignments, to Cameoscope Corporation. Casing for moving-picture machines. No. 47,410; June 1; Gaz. vol. 215; p. 295.
- Rubay, Leon, assignor to The White Company, Cleveland, Ohio. Automobile-body. Nos. 47,626-7; July 20; Gaz. vol. 216; p. 1004.
- Rubay, Leon, assignor to The White Company, Cleveland, Ohio. Automobile-body. No. 47,777; Aug. 31; Gaz. vol. 217; p. 1645.
- Rubay, Leon, assignor to The White Company, Cleveland, Ohio. Automobile-body. Nos. 47,803-4; Sept. 7; Gaz. vol. 218; p. 292.
- Rubenstein, Louis, Alexandria, La. Party-box. No. 46,887; Jan. 26; Gaz. vol. 210; p. 1351.
- Ruggles, Horatio B., West Somerville, assignor to The H. B. Ruggles Co., Boston, Mass. Dairy-lunch chair. No. 47,897; Sept. 28; Gaz. vol. 218; p. 1138.
- Russell, Harry, San Francisco, Cal. Watch-fob. No. 47,526; June 29; Gaz. vol. 215; p. 1491.
- Ryan, Elmer J., assignor of one-fourth to P. M. Welsh and one-fourth to M. H. Darby, Long Beach, Cal. Match-scratcher. No. 47,250; Apr. 20; Gaz. vol. 213; p. 1090.
- S. S. White Dental Manufacturing Company, The. (See Schofield, Thomas L., assignor.)
- Saart, William H., Attleboro, Mass., assignor to The W. H. Saart Company. Cigar-holder. No. 47,437; June 8; Gaz. vol. 215; p. 640.
- Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)
- Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Water-cooler. No. 47,474; June 15; Gaz. vol. 215; p. 970.
- Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Dish. No. 47,572; July 13; Gaz. vol. 216; p. 636.
- Salomon, Solomon G., Far Rockaway, N. Y. Package of cigars. No. 46,968; Feb. 16; Gaz. vol. 211; p. 937.
- Salzman, Joseph A., Toledo, Iowa. Emblem. No. 47,169; Mar. 30; Gaz. vol. 212; p. 1662.
- Sametz, Adolph R. (See Sametz, Louis and A. R.)
- Sametz, Louis and A. R., New York, N. Y. Child's rattle. No. 46,969; Feb. 16; Gaz. vol. 211; p. 938.
- Samstag, Louis A., New York, N. Y. Hand-bag. No. 47,968; Oct. 12; Gaz. vol. 219; p. 571.
- Samuelson, Alexander, assignor to Root Glass Company, Terre Haute, Ind. Bottle or similar article. No. 48,160; Nov. 16; Gaz. vol. 220; p. 1013.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Glass jar. No. 46,870; Jan. 19; Gaz. vol. 210; p. 1044.
- Sanford, Andrew J., assignor to A. H. Heisey & Company, Newark, Ohio. Glass dish. No. 47,118; Mar. 16; Gaz. vol. 212; p. 1029.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Tumbler or similar article. No. 47,527; June 29; Gaz. vol. 215; p. 1491.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Cream, sugar, and butter set. No. 47,573; July 13; Gaz. vol. 216; p. 656.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Vase. Nos. 47,736-9; Aug. 17; Gaz. vol. 217; pp. 1011-12.
- Sargent & Company. (See Holdt, Julius, assignor.)
- Sargent & Company. (See Page, Albert A., assignor.)
- Sargent & Company. (See Sargent, Edward R., assignor.)
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-trimming. No. 46,888; Jan. 26; Gaz. vol. 210; p. 1351.
- Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. Nos. 46,846-8; Jan. 5; Gaz. vol. 210; p. 374.
- Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. No. 46,914; Feb. 2; Gaz. vol. 211; p. 256.
- Saner, Emil G., Richmond Hill, N. Y., assignor to Bigelow Hartford Carpet Company. Rug. No. 46,970; Feb. 16; Gaz. vol. 211; p. 938.
- Saner, Emil G., Richmond Hill, N. Y., assignor to Bigelow Hartford Carpet Company. Rug-border. No. 46,971; Feb. 16; Gaz. vol. 211; p. 938.
- Scalf, Richard C., assignor to White Company, Cleveland, Ohio. Steering-column switch unit. No. 47,898; Sept. 28; Gaz. vol. 218; p. 1138.
- Seallone, Daniel, Hazleton, Pa. Poison-bottle. No. 48,011; Oct. 19; Gaz. vol. 219; p. 891.
- Schaffer, Max, New York, N. Y. Glass bowl. No. 47,652; July 27; Gaz. vol. 216; p. 1310.
- Schaffer, Max, New York, N. Y. Glass bowl. No. 48,046; Oct. 26; Gaz. vol. 219; p. 1212.
- Schenck, Ernest G. H., Wilton, Conn. Diamond or other similar precious stone. Nos. 47,012-14; Feb. 23; Gaz. vol. 211; p. 1239.
- Scheuer, William, New York, N. Y. Muffler-vest. No. 47,653; July 27; Gaz. vol. 216; p. 1310.
- Scheuer, William, New York, N. Y. Collar. No. 47,805; Sept. 7; Gaz. vol. 218; p. 293.
- Scheuer, William, New York, N. Y. Cuff. No. 48,128; Nov. 9; Gaz. vol. 220; p. 641.
- Schindler, Lincoln C., Bridgeport, Conn. Dust-pan, shovel, or scoop. No. 47,170; Mar. 30; Gaz. vol. 212; p. 1663.
- Schlegel, Charles P., Rochester, N. Y. Ribbon. Nos. 47,119-20; Mar. 16; Gaz. vol. 212; p. 1029.
- Schleicher, William A., Cleveland, Ohio. Trace-carrier. No. 47,628; July 20; Gaz. vol. 216; p. 1005.

- Schmidt, Godfrey P., New York, N. Y. Toy. No. 48,012; Oct. 19; Gaz. vol. 219; p. 892.
- Schneider, Henry. (See Schneider, John and H.)
- Schneider, John and H., Ann Arbor, Mich. Hood and cow-dash attachment for automobiles. No. 47,307; May 4; Gaz. vol. 214; p. 319.
- Schofield, Thomas L., assignor to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Bottle. No. 48,265; Dec. 7; Gaz. vol. 221; p. 322.
- Scholler, Charles N., Philadelphia, Pa., assignor to Bigelow Hartford Carpet Company. Rug. No. 46,972; Feb. 16; Gaz. vol. 211; p. 938.
- Schreiber, Edwin W. (See Klemm and Schreiber.)
- Schrenkeisen, Arthur, New York, N. Y. Telephone-stand. No. 48,013; Oct. 19; Gaz. vol. 219; p. 892.
- Schroeder, Albert F., Cleveland, Ohio. Handle. No. 47,082; Mar. 9; Gaz. vol. 212; p. 671.
- Schroeder, Charles A., *et al.* (See Hultgren, Hjalmar, assignor.)
- Schroeder, Edward J., *et al.* (See Hultgren, Hjalmar, assignor.)
- Schuster Company, The. (See Ludwig, John O., assignor.)
- Schwab, Leon C., assignor to A. O. Smith Company, Milwaukee, Wis. Automobile-wheel. No. 47,390; May 25; Gaz. vol. 214; p. 1295.
- Schwarber, Henry, Weehawken, assignor to Infexible Company, West New York, N. J. Embroidery. No. 47,276; Apr. 27; Gaz. vol. 213; p. 1417.
- Schwarber, Henry, Weehawken, assignor to Infexible Co., West New York, N. J. Embroidered lace. No. 48,085; Nov. 2; Gaz. vol. 220; p. 333.
- Schwarber, Henry, Weehawken, assignor to Infexible Co., West New York, N. J. Embroidery. No. 48,129; Nov. 9; Gaz. vol. 220; p. 642.
- Schwarber, Henry, Weehawken, N. J., assignor to Infexible Co., West New York, N. J. Embroidered lace. No. 48,266; Dec. 7; Gaz. vol. 221; p. 322.
- Schwartz, Frederick, assignor to D. M. Gilbert, Brooklyn, N. Y. Electric-light globe. No. 48,161; Nov. 16; Gaz. vol. 220; p. 1013.
- Schwartz, Frederick, assignor to D. M. Gilbert, Brooklyn, N. Y. Electric-light globe. No. 48,201; Nov. 23; Gaz. vol. 220; p. 1348.
- Schwartzman, Benjamin, New York, N. Y. Shower-plate for lighting-fixtures. No. 48,295; Dec. 14; Gaz. vol. 221; p. 709.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Body for a pendant or similar lamp. No. 48,284; Dec. 14; Gaz. vol. 221; p. 707.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Shower-plate for lighting-fixtures. No. 48,285; Dec. 14; Gaz. vol. 221; p. 707.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Back plate for lighting-fixtures. No. 48,286; Dec. 14; Gaz. vol. 221; p. 708.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Socket-cover for lighting-fixtures. No. 48,287; Dec. 14; Gaz. vol. 221; p. 708.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Shower-plate for lighting-fixtures. Nos. 48,288-90; Dec. 14; Gaz. vol. 221; p. 708.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Back plate for lighting-fixtures. No. 48,291; Dec. 14; Gaz. vol. 221; p. 708.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Canopy for lighting-fixtures. No. 48,292; Dec. 14; Gaz. vol. 221; p. 708.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Socket-cover for lighting-fixtures. No. 48,293; Dec. 14; Gaz. vol. 221; p. 709.
- Schwartzman, Benjamin, assignor to Reliance Metal Spinning Company, New York, N. Y. Canopy for lighting-fixtures. No. 48,294; Dec. 14; Gaz. vol. 221; p. 709.
- Schweinert, Maximilian C., West Hoboken, N. J. Dust-cap for valves. No. 47,672; Aug. 3; Gaz. vol. 217; p. 244.
- Schweitzer, estate of William. (See Labadie, Harry H., assignor.)
- Schwinn, Frederick, Attleboro, Mass. Pierced spoon, fork, or similar article. No. 47,509; June 22; Gaz. vol. 215; p. 1255.
- Schwinn, Frederick, Attleboro, Mass. Pierced spoon, fork, or similar article. No. 47,629; July 20; Gaz. vol. 216; p. 1005.
- Schwinn, Frederick, Attleboro, Mass. Pierced spoon, fork, or similar article. No. 47,740; Aug. 17; Gaz. vol. 217; p. 1012.
- Scott, Corlett L., Denver, Colo. Fountain-faucet. No. 47,475; June 15; Gaz. vol. 215; p. 970.
- Scott, John R., Fresno, Cal. Price-dial. No. 46,915; Feb. 2; Gaz. vol. 211; p. 257.
- Seamon, Percy R., assignor to Portland Sales Company, Boston, Mass. Mirror-stand. No. 47,863; Sept. 21; Gaz. vol. 218; p. 862.
- Sears, Roebuck and Company. (See Dunhany, William P., assignor.)
- Sebring, Frank A., Sebring, Ohio. Sugar-bowl or similar article. No. 47,200; Apr. 6; Gaz. vol. 213; p. 329.
- Sebring, Frank A., Sebring, Ohio. Pitcher. No. 47,201; Apr. 6; Gaz. vol. 213; p. 330.
- Sebring, Frank A., Sebring, Ohio. Teapot. No. 47,202; Apr. 6; Gaz. vol. 213; p. 330.
- Sebring, Frank A., Sebring, Ohio. Cup. No. 47,342; May 11; Gaz. vol. 214; p. 659.
- Sebring, Frank A., Sebring, Ohio. Saucer. No. 47,343; May 11; Gaz. vol. 214; p. 659.
- Sebring, Frank A., Sebring, Ohio. Plate. No. 47,344; May 11; Gaz. vol. 214; p. 660.
- Semler, George, assignor to Geo. Borgfeldt & Co., New York, N. Y. Novelty candy-container or bank. Nos. 48,130-1; Nov. 9; Gaz. vol. 220; p. 642.
- Senn Pressed Steel Hoe & Tool Company. (See Bruce, Avery C., assignor.)
- Sergeant, Judson T. (See Smallwood and Sergeant.)
- Seyburn, Wesson, Detroit, Mich. Toy dog. Nos. 47,047-57; Mar. 2; Gaz. vol. 212; pp. 303-6.
- Seymour, William M., Orange, N. J., assignor to The Graff Furnace Co., New York, N. Y. Combination coal and gas range. No. 48,086; Nov. 2; Gaz. vol. 220; p. 333.
- Severt, John W., Maben, W. Va. Settee-rocker. No. 48,329; Dec. 21; Gaz. vol. 221; p. 1017.
- Shailor, Frank E. (See Kuhn and Shailor.)
- Shales, Alfred, Waban, assignor to Operatone Phonograph Company, Boston, Mass. Phonograph-cabinet. No. 48,330; Dec. 21; Gaz. vol. 221; p. 1017.
- Shaw, Walden W., assignor to Walden W. Shaw Livery Co., Chicago, Ill. Tag. Nos. 47,864-5; Sept. 21; Gaz. vol. 218; p. 862.
- Shelton, George, Paducah, Ky. Pump-frame. No. 47,251; Apr. 20; Gaz. vol. 213; p. 1090.
- Shepard, Egbert B., Providence, R. I., assignor to Albert Lorsch and Company, Incorporated. Cut gem. Nos. 47,510-11; June 22; Gaz. vol. 215; pp. 1255-6.
- Shepard, Egbert B., Providence, R. I., assignor to Albert Lorsch and Company, Incorporated. Precious or semiprecious or synthetic stone or an imitation thereof. Nos. 47,701-3; Aug. 10; Gaz. vol. 217; pp. 654-5.
- Shepard, Perry M., Chicago, Ill. Soap-dish. Nos. 46,973-4; Feb. 16; Gaz. vol. 211; pp. 938-9.
- Shepard, Perry M., Chicago, Ill. Combined soap-dish and tooth-brush holder. No. 46,975; Feb. 16; Gaz. vol. 211; p. 939.
- Sheppard, Erie R., New York, N. Y. Pocket match-box. No. 47,741; Aug. 17; Gaz. vol. 217; p. 1012.
- Sherwin-Williams Company, The. (See Powell, William B., assignor.)
- Sheward, Hubert E., Middlesex, England. Lamp-bracket. No. 48,132; Nov. 9; Gaz. vol. 220; p. 642.
- Shiminsky, Samuel H., New York, N. Y. Electric-lighting fixture. No. 47,899; Sept. 28; Gaz. vol. 218; p. 1138.
- Shipman, Anna M., East Orange, N. J., assignor to Supreme Council Order of The Amaranth, Brooklyn, N. Y. Fraternal emblem. No. 46,916; Feb. 2; Gaz. vol. 211; p. 257.
- Shiras-Chassaing Electric and Manufacturing Company. (See Chassaing, Frank X., assignor.)
- Shireman, Lewis, Muncie, Ind. Saw-handle. No. 47,547; July 6; Gaz. vol. 216; p. 320.
- Shoemaker & Busch. (See Wilgus, Walter M., assignor.)
- Shultz, Albert B., Buffalo, N. Y. Gas-engine body. No. 47,673; Aug. 3; Gaz. vol. 217; p. 245.
- Shuttles, R. Holl. (See Cox, Morgan H., assignor.)
- Sibley, Nettie E., Springfield, Mass. Flesh-file. No. 46,976; Feb. 16; Gaz. vol. 211; p. 939.
- Siebert, Otto W., and O. N. Turner; said Turner assignor to Bay State Metal Wheel Company, Templeton, Mass. Baby-carriage or bassinet canopy. No. 48,267; Dec. 7; Gaz. vol. 221; p. 322.
- Silverman, Katherine, Chicago, Ill. Doll. No. 47,761; Aug. 24; Gaz. vol. 217; p. 1318.
- Silverman, Maxwell, New York, N. Y., assignor to United Button Company. Button. No. 47,391; May 25; Gaz. vol. 214; p. 1295.
- Simeon I., and George H. Rogers Co. (See Myers, Burton D., assignor.)
- Simms, Charles F., Attleboro, Mass. Handle for spoons, forks, or similar articles. No. 48,296; Dec. 14; Gaz. vol. 221; p. 709.
- Sinclair, Henry P., Corning, N. Y. Dish. Nos. 47,411-12; June 1; Gaz. vol. 215; p. 295.
- Skipp, Herbert J. (See Edwards, King, and Skipp.)
- Skogland, Frank T., Minneapolis, Minn. Combination-tool. No. 48,014; Oct. 19; Gaz. vol. 219; p. 892.
- Slayter, Henry S., Belmont, Mass. Ornamented paper. Nos. 47,832-4; Sept. 14; Gaz. vol. 218; p. 583.
- Smallwood, William S., and J. T. Sergeant, assignors to Pax Manufacturing Company, Inc., Seattle, Wash. Statuette. No. 48,133; Nov. 9; Gaz. vol. 220; p. 642.
- Smith, Carleton W., assignor to Folding-Stand Company, Inc., New York, N. Y. Folding stand. No. 47,742; Aug. 17; Gaz. vol. 217; p. 1012.
- Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Case for vacuum-bottles. No. 47,015; Feb. 23; Gaz. vol. 211; p. 1240.
- Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Grape-fruit knife. No. 48,202; Nov. 23; Gaz. vol. 220; p. 1348.

Alphabetical list of patentees of designs—Continued.

- Smith, Clarence E., New Britain, assignor to The Worcester Metal Goods Company, Shelton, Conn. Fastener member for bags and suitcases. No. 48,087; Nov. 2; Gaz. vol. 220; p. 333.
- Smith, Elda G., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electrical-conduit outlet-box. No. 48,331; Dec. 21; Gaz. vol. 221; p. 1017.
- Smith, Henry A., Elgin, Ill. Safety-ripper case. No. 46,889; Jan. 26; Gaz. vol. 210; p. 1351.
- Smith, Hinsdale, South Hadley, Mass. Automobile-body. No. 47,252; Apr. 20; Gaz. vol. 213; p. 1090.
- Smith, Hinsdale, South Hadley, Mass. Automobile-body. No. 47,630; July 20; Gaz. vol. 216; p. 1005.
- Smith, John C., *et al.* (See Long, Boaz W., assignor.)
- Smith, Kline & French Company. (See Husky, Harry, assignor.)
- Smith, Lloyd B., Topeka, Kans. Bridge. No. 47,171; Mar. 30; Gaz. vol. 212; p. 1663.
- Smith, Luther D., assignor to The Standard Electric Stove Company, Toledo, Ohio. Stove. No. 47,438; June 8; Gaz. vol. 215; p. 640.
- Smith, Luther D., assignor to The Standard Electric Stove Company, Toledo, Ohio. Stove. No. 48,297; Dec. 14; Gaz. vol. 221; p. 709.
- Smith, Ray, Placencia, Cal. Safety-pin. No. 47,674; Aug. 3; Gaz. vol. 217; p. 245.
- Smith, Theodore L., Richmond, Va. Puzzle-board. No. 47,121; Mar. 16; Gaz. vol. 212; p. 1029.
- Societe Generale Des Etablissements Bergougnan. (See Bergougnan, Mathieu, assignor.)
- Solms, Martha H., Philadelphia, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oil-cloth, or floor-covering. Nos. 47,345-6; May 11; Gaz. vol. 214; p. 660.
- Somerville, William J., Cleveland, Ohio. Toy bank. No. 47,308; May 4; Gaz. vol. 214; p. 320.
- Sommer, John L., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Kitchen utensil. No. 47,016; Feb. 23; Gaz. vol. 211; p. 1240.
- Sommer, John L., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Shoe horn and button hook. No. 47,762; Aug. 24; Gaz. vol. 217; p. 1319.
- Sommer, John L., Newark, N. J., assignor to J. L. Sommer Mfg. Co. Handle for button-hooks or similar articles. No. 48,015; Oct. 19; Gaz. vol. 219; p. 892.
- Son, Charles A., San Francisco, Cal. Toy. No. 48,233; Nov. 30; Gaz. vol. 220; p. 1699.
- Sparks, William, Jackson, Mich. Signal. No. 46,917; Feb. 2; Gaz. vol. 211; p. 257.
- Speck, Emil. (See Jacob and Speck.)
- Speitel, William, New York, N. Y. Paper-cutter or similar article. No. 47,392; May 25; Gaz. vol. 214; p. 1296.
- Spence, David, Norwalk, Conn. Tire. No. 47,347; May 11; Gaz. vol. 214; p. 660.
- Spence, David, Norwalk, Conn. Tire-tread. No. 47,969; Oct. 12; Gaz. vol. 219; p. 571.
- Splittorf Electrical Company. (See Lang, George L., assignor.)
- Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 47,743; Aug. 17; Gaz. vol. 217; p. 1013.
- Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 48,298; Dec. 14; Gaz. vol. 221; p. 710.
- Standard Electric Stove Company, The. (See Smith, Luther D., assignor.)
- Standard Oil Company. (See Quinn, John L., assignor.)
- Standard Tire & Rubber Manufacturing Company, The. (See Gillen, Mark J., assignor.)
- Stanley Works, The. (See Parsons, Stuart W., assignor.)
- Stanton, Stephen, Middletown, Conn. Combined salt and pepper shaker. No. 47,866; Sept. 21; Gaz. vol. 218; p. 862.
- Star Foundry Company, The. (See Mersfelder, William L., assignor.)
- Stauffer, Burton F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hot-water bottle. No. 47,763; Aug. 24; Gaz. vol. 217; p. 1319.
- Steetle, Silas C., Kansas City, Mo. Check holder and punch. No. 48,332; Dec. 21; Gaz. vol. 221; p. 1017.
- Steinmeier, Joseph E., New York, N. Y., assignor to Western Clock Company, La Salle, Ill. Clock-frame. No. 47,203; Apr. 6; Gaz. vol. 213; p. 330.
- Steinmeier, Joseph E., New York, N. Y., assignor to Western Clock Company, La Salle, Ill. Clock-frame. No. 47,439; June 8; Gaz. vol. 215; p. 640.
- Stephen Sanford & Sons. (See De Hart, Raymond M., assignor.)
- Stephen Sanford & Sons. (See Noble, Lionel C., assignor.)
- Stephen Sanford & Sons. (See Stewart, Nelson S., assignor.)
- Stephenson, Amadore F., Dumont, N. J. Poison-bottle. No. 47,348; May 11; Gaz. vol. 214; p. 660.
- Stern, Arnold, Hollis, N. Y. Apron. No. 48,203; Nov. 23; Gaz. vol. 220; p. 1348.
- Stern, Newton W., San Francisco, Cal. Flush-tank cover. Nos. 47,654-6; July 27; Gaz. vol. 216; pp. 1310-11.
- Stern-Saalberg Company. (See Hirschfeld, Leo, assignor.)
- Stevens, Ralph P., Stanford, Cal. Fraternal-association badge or similar article. No. 48,333; Dec. 21; Gaz. vol. 221; p. 1018.
- Stewart, John H., Jamaica, N. J. Push-plate for panic-doors. No. 48,134; Nov. 9; Gaz. vol. 220; p. 643.
- Stewart, Nelson S., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Rug. No. 47,675; Aug. 3; Gaz. vol. 217; p. 245.
- Stimecz, Karl, Cincinnati, Ohio. Combination-tool. No. 46,890; Jan. 26; Gaz. vol. 210; p. 1351.
- Stinemetz, Morgan, Washington, D. C. Statuette. No. 47,704; Aug. 10; Gaz. vol. 217; p. 655.
- Stimpson, Walter F., Detroit, Mich. Pedestal for coffee-grinders. No. 47,204; Apr. 6; Gaz. vol. 213; p. 330.
- Stirrup, Stanley H., Grand Rapids, Mich., assignor to Berkey and Gay Furniture Company. Casing for sound-producing instruments. Nos. 47,935-6; Oct. 5; Gaz. vol. 219; p. 257.
- Stocking, James F., East Orange, N. J. Filter. No. 47,970; Oct. 12; Gaz. vol. 219; p. 572.
- Stoltz, Robert H., Richmond, Va. Dish. No. 47,368; May 18; Gaz. vol. 214; p. 1002.
- Stone, Melvin C., Reading, Mass. Hair-pin. No. 47,971; Oct. 12; Gaz. vol. 219; p. 572.
- Stough, Turney G., Jeannette, Pa. Toy candy-container. No. 47,122; Mar. 16; Gaz. vol. 212; p. 1030.
- Strater, Theodore G., West Tisbury, Mass. Ash-tray. No. 47,172; Mar. 30; Gaz. vol. 212; p. 1663.
- Straus, Sidney W., Washington, D. C. Doll or statuette. No. 47,657; July 27; Gaz. vol. 216; p. 1311.
- Streichert, Emil K. F., Detroit, Mich. Radiator cowl and hood. No. 47,631; July 20; Gaz. vol. 216; p. 1005.
- Strickhouser, Carlos, assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace edging. Nos. 47,764-5; Aug. 24; Gaz. vol. 217; p. 1319.
- Strickler, Matthew M., Overbrook, Pa. Hair-pin. No. 48,088; Nov. 2; Gaz. vol. 220; p. 334.
- Strickler, Matthew M., Overbrook, Pa. Hair-pin. No. 48,162; Nov. 16; Gaz. vol. 220; p. 1014.
- Strohaker, Gustave, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 47,017; Feb. 23; Gaz. vol. 211; p. 1240.
- Strohaker, Gustave, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 48,356; Dec. 28; Gaz. vol. 221; p. 1425.
- Stroke, William P., Buffalo, N. Y. Rack for supporting watches, watch-chains, key-rings, and similar articles. No. 47,123; Mar. 16; Gaz. vol. 212; p. 1030.
- Strong, William J. H. (See Freeland, Lloyd D., assignor.)
- Strong, William J. H., Beloit, Wis. Base for motor-driven fans. No. 47,900; Sept. 28; Gaz. vol. 218; p. 1139.
- Strong, William J. H., Beloit, Wis. Base and standard of motor-driven fans. Nos. 47,901-2; Sept. 28; Gaz. vol. 218; p. 1139.
- Strong, William J. H., Beloit, Wis. Base for motor-driven fans. No. 47,903; Sept. 28; Gaz. vol. 218; p. 1139.
- Strong, William J. H., Beloit, Wis. Frame for engine-driven fans. No. 48,016; Oct. 19; Gaz. vol. 219; p. 892.
- Strong, William J. H., Beloit, Wis. Frame for engine-driven fans. No. 48,089; Nov. 2; Gaz. vol. 220; p. 334.
- Strong, William J. H., Beloit, Wis. Base of a motor-driven fan. Nos. 48,204-5; Nov. 23; Gaz. vol. 220; p. 1348.
- Strong, William J. H., Beloit, Wis. Base and standard of a motor-driven fan. No. 48,206; Nov. 23; Gaz. vol. 220; p. 1349.
- Stroock, Bertram A., assignor to Stroock Plush Company, Newburgh, N. Y. Plush fabric. No. 47,277; Apr. 27; Gaz. vol. 213; p. 1417.
- Stroock Plush Company. (See Stroock, Bertram A., assignor.)
- Sullivan, Charles L., assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel or similar article. No. 46,918; Feb. 2; Gaz. vol. 211; p. 257.
- Sullivan, Charles L., assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel or similar article. No. 47,632; July 20; Gaz. vol. 216; p. 1005.
- Supreme Council Order of The Amaranth. (See Shipman, Anna M., assignor.)
- Supreme Lodge Knights of Pythias. (See Wheaton, Fred E., assignor.)
- Surface, William E., assignor to Faries Manufacturing Co., Decatur, Ill. Hanger for light-reflecting bowls. No. 48,207; Nov. 23; Gaz. vol. 220; p. 1349.
- Swaab, Mayer M., Jr., New York, N. Y., assignor to Frank H. Fleer Corporation, Philadelphia, Pa. Candy-coated chewing-gum. No. 47,083; Mar. 9; Gaz. vol. 212; p. 671.
- Swearingen, Philip J., Los Angeles, Cal. Box. No. 47,440; June 8; Gaz. vol. 215; p. 641.
- Szabo, Paul, South Bend, Ind. Picture-frame. No. 47,835; Sept. 14; Gaz. vol. 218; p. 583.
- Szenasy, Andrew, Woodbridge, and M. Zserai, Perth Amboy, N. J. Weapon. No. 47,904; Sept. 28; Gaz. vol. 218; p. 1139.
- Szostak, Stanislaw, Cranberry, W. Va. Weapon. No. 48,208; Nov. 23; Gaz. vol. 220; p. 1349.
- T. C. Wheaton Co. (See Wheaton, Theodore C., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Commons, William C., assignor.)
- Taussig, Maurice, Chicago, Ill. Leg for store furniture. No. 47,937; Oct. 5; Gaz. vol. 219; p. 257.
- Taylor & Co. (See Christl, Joseph V., assignor.)

- Taylor, Harry A., New York, N. Y. Lady's undervest or similar undergarment. No. 47,658; July 27; Gaz. vol. 216; p. 1311.
- Taylor, Harry A., New York, N. Y. Lady's undervest or similar undergarment. No. 48,135; Nov. 9; Gaz. vol. 220; p. 643.
- Taylor, Harry A., New York, N. Y. Glove. Nos. 48,334-5; Dec. 21; Gaz. vol. 221; p. 1018.
- Teall, Russell F., Toledo, Ohio, assignor to The Toledo Ford-Tire Company. Tire-tread. No. 47,972; Oct. 12; Gaz. vol. 219; p. 572.
- Tepler, Albert E., assignor to National Metal Spinning & Stamping Company, New York, N. Y. Shell for lighting-fixtures. No. 47,173; Mar. 30; Gaz. vol. 212; p. 1663.
- Tepler, Albert E., assignor to National Metal Spinning & Stamping Company, New York, N. Y. Shell for lighting-fixtures. No. 47,349; May 11; Gaz. vol. 214; p. 660.
- Tepler, Albert E., assignor to National Metal Spinning & Stamping Company, New York, N. Y. Shell for lighting-fixtures. No. 48,136; Nov. 9; Gaz. vol. 220; p. 643.
- Tepler, George M., assignor to National Metal Spinning & Stamping Company, New York, N. Y. Socket-cover for lighting-fixtures. No. 47,973; Oct. 12; Gaz. vol. 219; p. 572.
- Tepler, Simon, New York, N. Y. Shell for lighting-fixtures. No. 48,163; Nov. 16; Gaz. vol. 220; p. 1014.
- Ternstedt, Alvar K., assignor to Perfect Window Regulator Company, New York, N. Y. Handle. No. 47,058; Mar. 2; Gaz. vol. 212; p. 306.
- Terrell, Albert C., Grand Rapids, Mich. Metal molding. No. 47,309; May 4; Gaz. vol. 214; p. 320.
- Teshima, Sannosuke, San Francisco, Cal. Incense-burner. No. 48,209; Nov. 23; Gaz. vol. 220; p. 1349.
- Teters, Alvin R., Boise, Idaho. Souvenir emblematic gate. No. 47,867; Sept. 21; Gaz. vol. 218; p. 863.
- Thamm, Rosie, Berkeley, Cal. Napkin-holder. No. 48,357; Dec. 28; Gaz. vol. 221; p. 1425.
- Thoeming, William H., assignor to Vanguard Manufacturing Company, Detroit, Mich. Tubing for wind-shield frames. No. 47,868; Sept. 21; Gaz. vol. 218; p. 863.
- Thomas, Charles W., Mountain Road, N. J., assignor to H. Maimin Co., Inc. Housing for cloth-cutting machines. No. 46,919; Feb. 2; Gaz. vol. 211; p. 257.
- Thomas Manufacturing Company, The. (See Baxter, Leonidas, assignor.)
- Thompson, Andrew, assignor of one-half to J. E. Bates, Waterloo, Iowa. Spraying device for lawn-hose. No. 48,137; Nov. 9; Gaz. vol. 220; p. 643.
- Thompson, Arthur J., Fulton, N. Y. Hammer. No. 47,124; Mar. 16; Gaz. vol. 212; p. 1030.
- Thompson, Charles E., assignor to Ieldtite Brush Co., Inc., Troy, N. Y. Handle for shaving-brushes. No. 48,050; Oct. 26; Gaz. vol. 219; p. 1212.
- Thorn, Emerich, Boston, Mass. Bowl for a tobacco-pipe. No. 47,476; June 15; Gaz. vol. 215; p. 970.
- Thos. Cusack Company. (See Cusack, Harold, assignor.)
- Thos. P. Taylor Co., The. (See Hammond, Myron B., assignor.)
- Tilton, George P., Newburyport, Mass., assignor to The United Jewelers Inc., New York, N. Y. Spoon, fork, or similar article. No. 47,512; June 22; Gaz. vol. 215; p. 1256.
- Titchener, Charles E., assignor to Crandal, Stone & Company, Binghamton, N. Y. Curtain-light. No. 47,140; Mar. 23; Gaz. vol. 212; p. 1329.
- Toledo Ford-Tire Company, The. (See Teall, Russell F., assignor.)
- Tough, Alexander. (See Potter and Tough.)
- Towle Manufacturing Company. (See Chéron, Pierre J., assignor.)
- Toystor Company, The. (See McAllister, Patrick J., assignor.)
- Traphagen, Harry R. (See Waterman and Traphagen.)
- Traub Manufacturing Company. (See Woznica, Joseph K., assignor.)
- Travelers' Aid Society of California. (See Pomeroy, George, assignor.)
- Tubby, Josiah T., Westfield, N. J., assignor to Delta Upsilon Fraternity, New York, N. Y. Plate. No. 47,659; July 27; Gaz. vol. 216; p. 1311.
- Turner, George L., Taunton, Mass. Spoon, fork, or similar article. No. 48,336; Dec. 21; Gaz. vol. 221; p. 1018.
- Turner, Kelley M., Jamaica, N. Y., assignor to General Acoustic Company. Telephonic transmitting appliance. No. 47,905; Sept. 28; Gaz. vol. 218; p. 1140.
- Turner, Ora N. (See Slebert and Turner.)
- Tuttle, Cecilia B. (See Fitch, Margaret R., assignor.)
- Twombly, Willard L., New York, N. Y. Vehicle-body. No. 48,299; Dec. 14; Gaz. vol. 221; p. 710.
- Tyson, Lewis H., Hankinson, N. D. Hoe-blade. No. 48,090; Nov. 2; Gaz. vol. 220; p. 334.
- Uhlemann, William R., Chicago, Ill. Lens-strap. No. 47,638; July 20; Gaz. vol. 216; p. 1006.
- Ullin, Charles O., assignor to McCray Refrigerator Company, Kendallville, Ind. Candy-refrigerator. Nos. 47,441-2; June 8; Gaz. vol. 215; p. 641.
- Ulyrch, Kazimierz, assignor of one-half to J. Kulak, Philadelphia, Pa. Clothes-washing implement. No. 47,548; July 6; Gaz. vol. 216; p. 820.
- Underhill, Clara M. (See Underhill, William M., F. M., and C. M.)
- Underhill, Frances M. (See Underhill, William M., F. M., and C. M.)
- Underhill, William M., F. M., and C. M., Greenwich, Conn. Toy. No. 46,858; Jan. 12; Gaz. vol. 210; p. 693.
- Underwood, Thomas C., assignor to The Greenduck Company, Chicago, Ill. Badge. No. 46,977; Feb. 16; Gaz. vol. 211; p. 930.
- Union Caliper Company. (See Ellis, Emory E., assignor.)
- Union City Carriage Manufacturing Company, The. (See Heitzmann, William C., assignor.)
- United Button Company. (See Silverman, Maxwell, assignor.)
- United Drug Company. (See Holden, Philip C., assignor.)
- United Injector Company, The. (See Williston, Belvin T., assignor.)
- United Jewelers Inc., The. (See Tilton, George P., assignor.)
- United States Glass Company. (See Anderson, Frederick E., assignor.)
- United States Glass Company. (See Haley, Reuben, assignor.)
- United States Tire Company. (See Lux, William W., assignor.)
- Vamvas, Spyros D. (See Guinis and Vamvas.)
- Van Alst, John M., Jersey City, N. J., assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Pencil-container. No. 47,350; May 11; Gaz. vol. 214; p. 661.
- Van Noy, Charles S. (See Erickson, George E., assignor.)
- Van Raalte, Zealie, New York, N. Y. Veiling. No. 46,920; Feb. 2; Gaz. vol. 211; p. 258.
- Van Wie, Edwin G., assignor to Detroit Stove Works, Detroit, Mich. Stove. No. 47,084; Mar. 9; Gaz. vol. 212; p. 672.
- Vanamburgh, John W., Horseheads, N. Y. Combined jardinière-stand and tree-support. No. 47,766; Aug. 24; Gaz. vol. 217; p. 1319.
- Vanguard Manufacturing Company. (See Thoeming, William H., assignor.)
- Veith, Fred A., Arlington, Minn. Popcorn-bag. No. 47,085; Mar. 9; Gaz. vol. 212; p. 672.
- Venon, Jules H., New York, N. Y. Cup or similar article. No. 47,413; June 1; Gaz. vol. 215; p. 295.
- Venon, Jules H., New York, N. Y. Ornamentation for dishes. No. 47,767; Aug. 24; Gaz. vol. 217; p. 1320.
- Verplast, Frederick, deceased, Boston, Mass.; M. L. Verplast, executrix. Display-case. No. 48,337; Dec. 21; Gaz. vol. 221; p. 1013.
- Verplast, Minnie L., executrix. (See Verplast, Frederick.)
- Very, Edward D. (See Roach, James C., assignor.)
- Victor, Alexander F., assignor to Victor Animatograph Company, Davenport, Iowa. Slide for stereopticons. No. 47,938; Oct. 5; Gaz. vol. 219; p. 258.
- Victor Animatograph Company. (See Victor, Alexander F., assignor.)
- Victor Rubber Company, The. (See Bosworth, Percy B., assignor.)
- Victor S. Pearlman & Co. (See Pearlman, Victor S., assignor.)
- Victor Talking Machine Company. (See Johnson and Kieffer, assignors.)
- Victor Talking Machine Company. (See Kieffer, Eugene T., assignor.)
- Victoria Plush Mills. (See Crownfield, Sophie L., assignor.)
- Villemain, Victor M., New York, N. Y. Combination knife, fork, spoon, and toothpick. No. 47,443; June 8; Gaz. vol. 215; p. 641.
- Von Hartz, Helen. (See Metzger and Von Hartz.)
- Voshardt, Herman F., assignor to Friedley-Voshardt Co., Chicago, Ill. Shower-plate for lighting-fixtures. Nos. 47,633-4; July 20; Gaz. vol. 216; pp. 1005-6.
- Voshardt, Herman F., assignor to Friedley-Voshardt Co., Chicago, Ill. Back plate for lighting-fixtures. No. 47,939; Oct. 5; Gaz. vol. 219; p. 258.
- W. D. Smith Silver Co. (See Rothlisberger, Jacob, assignor.)
- W. H. Saart Company, The. (See Saart, William H., assignor.)
- W. & J. Sloane. (See Reybet, George, assignor.)
- Wacaser, Cynthia, Kansas City, Mo. Washboller. No. 47,310; May 4; Gaz. vol. 214; p. 320.
- Wachter, Louis E. F., New York, N. Y. Wrist-watch protector. No. 48,268; Dec. 7; Gaz. vol. 221; p. 322.
- Wagner, Bernard P., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Percolator. No. 47,549; July 6; Gaz. vol. 216; p. 320.
- Wagner Manufacturing Company, The. (See Wagner, Bernard P., assignor.)
- Waite Grass Carpet Company, The. (See Waite, Ossian T., assignor.)
- Waite, Ossian T., assignor to The Waite Grass Carpet Company, Oshkosh, Wis. Grass rug or carpet. No. 47,550; July 6; Gaz. vol. 216; p. 320.
- Wakno, Asakichi, Los Angeles, Cal. Combined key-holder and cork-puller. No. 46,935; Feb. 9; Gaz. vol. 211; p. 612.
- Waldeck, Albert, Clarksburg, W. Va. Display-rack. No. 47,174; Mar. 30; Gaz. vol. 212; p. 1663.

Alphabetical list of patentees of designs—Continued.

- Walden W. Shaw Livery Co. (See Shaw, Walden W., assignor.)
- Walker, Edwin, Erie, Pa. Lime-squeezer. No. 48,269; Dec. 7; Gaz. vol. 221; p. 322.
- Walker, Frederick H., Philadelphia, Pa. Embossed fabric. No. 47,059; Mar. 2; Gaz. vol. 212; p. 306.
- Walker, Frederick H., Philadelphia, Pa. Embossed fabric. No. 47,205; Apr. 6; Gaz. vol. 213; p. 330.
- Walker, Theron H., Sacramento, Cal. Card-holder and paper-weight. No. 48,210; Nov. 23; Gaz. vol. 220; p. 1349.
- Wall, Dominic, East Providence, assignor to F. T. Pearce Company, Providence, R. I. Pencil-casing. No. 47,311; May 4; Gaz. vol. 214; p. 320.
- Wallace, Henry L., Wallingford, Conn. Spoon, fork, or similar article. No. 47,018; Feb. 23; Gaz. vol. 211; p. 1240.
- Wallace, Henry L., Wallingford, Conn. Spoon, fork, or similar article. No. 47,175; Mar. 30; Gaz. vol. 212; p. 1664.
- Wallace, Henry L., Wallingford, Conn. Spoon, fork, or similar article. No. 47,414; June 1; Gaz. vol. 215; p. 295.
- Wallace, Henry L., Wallingford, Conn. Spoon, fork, or similar article. No. 47,744; Aug. 17; Gaz. vol. 217; p. 1013.
- Wallace, Henry L., Wallingford, Conn. Spoon, fork, or similar article. Nos. 47,836-7; Sept. 14; Gaz. vol. 218; p. 583.
- Wallace Novelty Company. (See Bouchery, August, assignor.)
- Walovich, Zuza, Hawleyville, Conn. Slavonian-peasant doll. No. 47,513; June 22; Gaz. vol. 215; p. 1256.
- Walrus Manufacturing Company. (See Gray and Blyth, assignors.)
- Walter, Elmer E., assignor to Onondaga Pottery Co., Syracuse, N. Y. Article of manufacture. No. 47,206; Apr. 6; Gaz. vol. 213; p. 331.
- Walters, James M., Los Angeles, Cal. Window-trimmer's hammer. No. 47,906; Sept. 28; Gaz. vol. 218; p. 1140.
- Waltower, Charles S., Ensley, Ala. Package-tie. No. 46,849; Jan. 5; Gaz. vol. 210; p. 374.
- Ward, Ashley F., assignor to The A. F. Ward Machinery Co., Boston, Mass. Loaf of biscuit. Nos. 47,060-1; Mar. 2; Gaz. vol. 212; p. 306.
- Ward, Charles W. (See Hoge and Ward.)
- Ward, James J., assignor to Ward-Meehan Company, Philadelphia, Pa. Towel. No. 47,676; Aug. 3; Gaz. vol. 217; p. 245.
- Ward-Meehan Company. (See Ward, James J., assignor.)
- Warren, Peter R., Boston, Mass. Paper box. No. 47,574; July 13; Gaz. vol. 216; p. 656.
- Warwick China Company. (See Jenner, Percy, assignor.)
- Waterman, Lewis E., and H. R. Traphagen, assignors to Emerson-Brantingham Company, Rockford, Ill. Tractor-body. No. 48,017; Oct. 19; Gaz. vol. 219; p. 892.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Tractor-body. No. 48,018; Oct. 19; Gaz. vol. 219; p. 893.
- Watling, John R., Chicago, Ill. Scale-cabinet. No. 48,051; Oct. 26; Gaz. vol. 219; p. 1212.
- Watling, Thomas W. B., Chicago, Ill. Weighing-scale frame or casing. No. 46,978; Feb. 16; Gaz. vol. 211; p. 939.
- Watrous, Clifford M., assignor to The Gong Bell Manufacturing Company, East Hampton, Conn. Toy rattle. No. 46,859; Jan. 12; Gaz. vol. 210; p. 693.
- Watrous, Clifford M., assignor to The Gong Bell Manufacturing Company, East Hampton, Conn. Toy rattle. No. 46,979; Feb. 16; Gaz. vol. 211; p. 940.
- Watson Company, The. (See Masson, Margaret, assignor.)
- Wear, Frank F., and B. M. Ely, assignors to The Alvey-Ferguson Company, Cincinnati, Ohio. Coffee-mill casing. No. 47,660; July 27; Gaz. vol. 216; p. 1312.
- Weber, Nicholas J., Chicago, Ill. Grocery-bin. No. 47,974; Oct. 12; Gaz. vol. 219; p. 572.
- Weeks, Frank A., Plainfield, N. J. Inkstand. No. 48,091; Nov. 2; Gaz. vol. 220; p. 334.
- Wehrle Company, The. (See Pickup, George E., assignor.)
- Weicker, Theodore, Stamford, Conn., assignor to E. R. Squibb & Sons. Bottle. No. 47,278; Apr. 27; Gaz. vol. 213; p. 1417.
- Welper, Henry B., Lower Lake, Cal. Grave-protecting monument. No. 47,444; June 8; Gaz. vol. 215; p. 641.
- Weiser, Abraham G., Los Angeles, Cal. Table-ornament. No. 47,312; May 4; Gaz. vol. 214; p. 320.
- Weiser, Abraham G., Los Angeles, Cal. Table-ornament. No. 47,369; May 18; Gaz. vol. 214; p. 1002.
- Weitling, William W., College Point, assignor to American Hard Rubber Company, New York, N. Y. Comb. No. 47,147; Mar. 23; Gaz. vol. 212; p. 1329.
- Wells, Frank F., Kansas City, Mo. Bracelet. No. 47,148; Mar. 23; Gaz. vol. 212; p. 1329.
- Wells, James G. (See Reeves and Wells.)
- Wells-Odell Novelty Company. (See Wells, Samuel S., assignor.)
- Wells, Samuel S., assignor to Wells-Odell Novelty Company, Lynn, Mass. Waste-receptacle. No. 47,635; July 20; Gaz. vol. 216; p. 1006.
- Welsh, Prudence M., et al. (See Ryan, Elmer J., assignor.)
- Wentz, Geneva F., assignor to The Faultless Rubber Company, Ashland, Ohio. Bathing-cap. No. 47,176; Mar. 30; Gaz. vol. 212; p. 1664.
- Wernicke, Otto H. L., Grand Rapids, Mich. Drawer-pull. No. 47,445; June 8; Gaz. vol. 215; p. 642.
- West Disinfecting Company. (See Marcuse, Moses M., assignor.)
- West, William B., Philadelphia, Pa. Automobile-body. No. 47,313; May 4; Gaz. vol. 214; p. 320.
- Westerlind, Aksel, assignor to The Meyercord Company, Chicago, Ill. Plate. No. 47,975; Oct. 12; Gaz. vol. 219; p. 572.
- Westerlind, Aksel, assignor to The Meyercord Company, Chicago, Ill. Plate. No. 47,976; Oct. 12; Gaz. vol. 219; p. 573.
- Western Clock Company. (See Horner, William C., assignor.)
- Western Clock Company. (See Steinmeier, Joseph E., assignor.)
- Western Electric Company. (See Hill, Owen E., assignor.)
- Western Gas Fixture Company, The. (See Reiser, Alfred W., assignor.)
- Wheary, George H., Racine, Wis. Trunk. No. 46,921; Feb. 2; Gaz. vol. 211; p. 258.
- Wheaton, Fred E., assignor to Supreme Lodge Knights of Pythias, Minneapolis, Minn. Badge or button. No. 47,661; July 27; Gaz. vol. 216; p. 1312.
- Wharton, Theodore C., assignor to T. C. Wheaton Co., Millville, N. J. Bottle. No. 47,393; May 25; Gaz. vol. 214; p. 1296.
- White, Charles J., assignor to The C. J. White Mfg. Co., New Britain, Conn. Garter. No. 48,138; Nov. 9; Gaz. vol. 220; p. 643.
- White Company, The. (See Rubay, Leon, assignor.)
- White Company. (See Sciffe, Richard C., assignor.)
- White, Constance, Washington, D. C. Box. No. 47,528; June 29; Gaz. vol. 215; p. 1492.
- White, Edwin L., New York, assignor to J. H. White Mfg. Co., Brooklyn, N. Y. Metallic band or border. No. 47,838; Sept. 14; Gaz. vol. 218; p. 583.
- White, Edwin L., New York, assignor to J. H. White Mfg. Co., Brooklyn, N. Y. Metallic band or border. No. 47,940; Oct. 5; Gaz. vol. 219; p. 258.
- White, Franklin C., Woodbury, N. J., assignor, by mesne assignments, to Liberty Bell Company, Bell-crown. No. 48,211; Nov. 23; Gaz. vol. 220; p. 1349.
- White, Fred E., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Oil-stove. No. 48,338; Dec. 21; Gaz. vol. 221; p. 1019.
- White Frost Refrigerator Co. (See Boeck, Charles H., assignor.)
- White, George W., Kansas City, Kans. Wrench. No. 47,977; Oct. 12; Gaz. vol. 219; p. 573.
- White, John M., New York, N. Y., assignor to J. H. White Mfg. Co., Brooklyn, N. Y. Hanger for light-reflecting bowls. No. 47,705; Aug. 10; Gaz. vol. 217; p. 655.
- White, Perry B., Rochester, N. Y. Watch-chain safety-clasp. No. 47,446; June 8; Gaz. vol. 215; p. 642.
- White, Walter C., New York, N. Y. Embroidery-pattern. No. 48,139; Nov. 9; Gaz. vol. 220; p. 644.
- Whitehouse, John N., Newark, N. J. Baby rattle or toy. Nos. 47,125-6; Mar. 16; Gaz. vol. 212; p. 1030.
- Whiting, Charles A., Franklin, Mass., assignor to Whiting & Davis Company, Plainville, Mass. Hand-bag. No. 47,636; July 20; Gaz. vol. 216; p. 1006.
- Whiting & Davis Company. (See Whiting, Charles A., assignor.)
- Whiting Manufacturing Company. (See Hamilton, Harold H., assignor.)
- Whitney, Claire, San Francisco, Cal. Badge. No. 47,514; June 22; Gaz. vol. 215; p. 1256.
- Whitson, Peter E., assignor to Mueller Brothers Art and Manufacturing Company, Chicago, Ill. Frame. No. 47,127; Mar. 16; Gaz. vol. 212; p. 1030.
- Whittall, Matthew J. (See Haas, Frank A., assignor.)
- Whitely, Frank, Jamaica, assignor to Barthels Manufacturing Co., Brooklyn, N. Y. Tip for laces. No. 47,551; July 6; Gaz. vol. 216; p. 320.
- Wiegand, George, Berlin, Ontario, Canada. Bottle. No. 48,212; Nov. 23; Gaz. vol. 220; p. 1350.
- Wiggins, Dudley H., Washington township, Marion county, Ind. Game-board. No. 47,379; May 18; Gaz. vol. 214; p. 1002.
- Wiggins, Dudley H., Washington township, Marion county, Ind. Game-board. No. 47,637; July 20; Gaz. vol. 216; p. 1006.
- Wigley, John T., assignor to Onondaga Pottery Co., Syracuse, N. Y. Article of manufacture. No. 47,207; Apr. 6; Gaz. vol. 213; p. 331.
- Wigley, John T., assignor to Onondaga Pottery Co., Syracuse, N. Y. Article of manufacture. Nos. 47,314-15; May 4; Gaz. vol. 214; p. 321.
- Wilcox, Stanley L., New York, N. Y. Supporting-base for salt and pepper shakers. No. 48,234; Nov. 30; Gaz. vol. 220; p. 1699.
- Wilgus, Walter M., Philadelphia, Pa., assignor to Shoemaker & Busch. Absorbent block. No. 47,768; Aug. 24; Gaz. vol. 217; p. 1320.
- Wilhelm, Dale C., Los Angeles, Cal. Article of manufacture. No. 46,980; Feb. 16; Gaz. vol. 211; p. 940.

Alphabetical list of patentees of designs—Continued.

- Wilkes, Alfred L., Santa Ana, Cal. Beet-pick point. No. 47,240; Apr. 13; Gaz. vol. 213; p. 723.
- Wilkinson, Iona, assignor to Wilkinson Quilt Company, Ligonier, Ind. Bedquilt. Nos. 47,477-9; June 15; Gaz. vol. 215; p. 970.
- Wilkinson Quilt Company. (See Wilkinson, Iona, assignor.)
- Will & Baumer Co., The. (See Will, Harold H., assignor.)
- Will, Harold H., assignor to The Will & Baumer Co., Syracuse, N. Y. Candle. No. 47,086; Mar. 9; Gaz. vol. 212; p. 672.
- Willard Storage Battery Company, The. (See Willard, Theodore A., assignor.)
- Willard, Theodore A., assignor to The Willard Storage Battery Company, Cleveland, Ohio. Storage-battery handle. No. 47,978; Oct. 12; Gaz. vol. 219; p. 573.
- Williams Brothers Manufacturing Company, The. (See Pinney, George H., assignor.)
- Willis, Ernest J., New York, N. Y. Vehicle-tire. No. 47,351; May 11; Gaz. vol. 214; p. 661.
- Williston, Belvin T., Somerville, Mass., assignor to The United Injector Company, New York, N. Y. Valve-handle or similar article. No. 48,235; Nov. 30; Gaz. vol. 220; p. 1700.
- Willson, Frederick, and N. Bourquin, Reading, Pa. Pair of spectacles. No. 48,300; Dec. 14; Gaz. vol. 221; p. 710.
- Willson, George M., Montoursville, Pa. Talking-machine cabinet. Nos. 48,019-21; Oct. 19; Gaz. vol. 219; p. 893.
- Wilmarth, Glenn G., assignor to Clinton Cut Glass Company, Aldenville, Pa. Glass vessel. No. 47,352; May 11; Gaz. vol. 214; p. 661.
- Wilson, Andrew, Berkeley, Cal. Kitchen-indicator. No. 48,052; Oct. 26; Gaz. vol. 219; p. 1212.
- Wilson, Thomas, Toronto, Ontario, Canada. Tray. No. 47,529; June 29; Gaz. vol. 215; p. 1492.
- Wilton, Ralph P., Wrightsville, Pa. Dispensing apparatus. No. 48,164; Nov. 16; Gaz. vol. 220; p. 1014.
- Windsor Furniture Company, The. (See Moyer, Horace C., assignor.)
- Windsor Print Works. (See Howard, Charles M., assignor.)
- Winkler, Jacob, assignor to Auto Pedal Pad Co., New York, N. Y. Auto pedal-pad. No. 48,341; Dec. 21; Gaz. vol. 221; p. 1019.
- Winslow Bros. & Smith Co. (See Brandt, Carl, assignor.)
- Wirth, Walter, New York, N. Y., assignor to Kriesemer & Company, St. Gallen, Switzerland, and New York, N. Y. Embroidered trimming. Nos. 47,087-8; Mar. 9; Gaz. vol. 212; p. 672.
- Witter, William S., Toledo, Iowa. Spark-plug. No. 47,941; Oct. 5; Gaz. vol. 219; p. 258.
- Wojcik, John, Chicago, Ill. Picture. No. 47,979; Oct. 12; Gaz. vol. 219; p. 573.
- Wolfe, Moses, New York, N. Y. Emblem or similar article of jewelry. Nos. 47,839-40; Sept. 14; Gaz. vol. 218; p. 584.
- Wolfson, Charles D., Brooklyn, assignor to A. A. Vantine & Co., inc., New York, N. Y. Bottle. No. 48,140; Nov. 9; Gaz. vol. 220; p. 644.
- Wood, Walter W., Seattle, Wash. Hinge. No. 47,353; May 11; Gaz. vol. 214; p. 661.
- Woodhead, Daniel, Chicago, Ill. Lighting-fixture. No. 47,677; Aug. 3; Gaz. vol. 217; p. 245.
- Woods, Stephen, Upper Montclair, N. J. Box. No. 47,678; Aug. 3; Gaz. vol. 217; p. 246.
- Woodworth, Frank K., Rochester, N. Y. Bottle. No. 47,062; Mar. 2; Gaz. vol. 212; p. 307.
- Worcester Metal Goods Company, The. (See Smith, Clarence E., assignor.)
- Woznica, Joseph K., assignor to Traub Manufacturing Company, Detroit, Mich. Wedding-ring. Nos. 48,213-14; Nov. 23; Gaz. vol. 220; p. 1350.
- Wright, Alida O. (See Hunt, William J., assignor.)
- Yakeley, Le Roy, Syracuse, N. Y. Artificial bait. No. 47,706; Aug. 10; Gaz. vol. 217; p. 655.
- Yapczenski, Stanislaw, Chrome, N. J. Pocket article. No. 47,778; Aug. 31; Gaz. vol. 217; p. 1645.
- Young, Lorin W., New York, N. Y. Lighting-fixture. No. 46,936; Feb. 9; Gaz. vol. 211; p. 612.
- Young, Lorin W., New York, N. Y. Lamp-shade. No. 47,280; Apr. 27; Gaz. vol. 213; p. 1417.
- Yule, William H., assignor to The B. F. Goodrich Company, New York, N. Y. Tire. No. 47,371; May 18; Gaz. vol. 214; p. 1002.
- Zeller, Hans, Dumont, N. J., assignor to Embroidery Trading Company, New York, N. Y. Embroidered trimming. Nos. 47,089-94; Mar. 9; Gaz. vol. 212; pp. 672-3.
- Zserai, Mathias. (See Szenasy and Zserai.)
- Zwack, Bela, assignor to J. Zwack & Co., Budapest, Austria-Hungary. Bottle. Nos. 48,215-16; Nov. 23; Gaz. vol. 220; p. 1350.
- Zwack & Co., J. (See Zwack, Bela, assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- A. Bourjois & Co. Inc., New York, N. Y. Toilet powder. No. 107,776; Dec. 28; Gaz. vol. 221; p. 1446.
- A. Bourjois & Co. Inc., New York, N. Y. Toilet powder. Nos. 107,834-6; Dec. 28; Gaz. vol. 221; p. 1448.
- A. Grossenbach Co., Milwaukee, Wis. Eggs. Nos. 106,598-9; Oct. 26; Gaz. vol. 219; pp. 1228-9.
- A. Mecky Company, Philadelphia, Pa. Certain named vehicles, other than engines, for children's use. No. 103,858; Apr. 20; Gaz. vol. 213; p. 1111.
- A. Schoenhut Company, The, Philadelphia, Pa. Sectional wooden toys. No. 105,171; July 6; Gaz. vol. 216; p. 325.
- A. Silz, Inc., New York, N. Y. Prepared ham and bacon. No. 104,679; June 8; Gaz. vol. 215; p. 664.
- A. Wilhelm Company, The, Reading, Pa. Enamel. No. 103,307; Mar. 30; Gaz. vol. 212; p. 1684.
- A. Wilhelm Company, The, Reading, Pa. Ready-mixed paints. No. 103,308; Mar. 30; Gaz. vol. 212; p. 1684.
- A. & A. Rubber Company, South Framingham, Mass. Soles and heels of shoes. No. 103,194; Mar. 23; Gaz. vol. 212; p. 1353.
- A. B. Kirschbaum Company, Philadelphia, Pa. Men's and young men's suits, comprising coats and trousers. No. 107,809; Dec. 28; Gaz. vol. 221; p. 1447.
- A/B B. A. Hjorth & Co., Stockholm, Sweden. Certain named machinery, tools, and parts thereof. No. 105,533; Aug. 3; Gaz. vol. 217; p. 335.
- A. C. C. Oil Company, Dover, Del.; Boston, Mass., and Providence, R. I. Lubricating oils and greases. No. 102,992; Mar. 16; Gaz. vol. 212; p. 1049.
- A. E. Pitts Shoe Company, The, Columbus, Ohio. Ladies' leather and canvas shoes. No. 104,263; May 11; Gaz. vol. 214; p. 679.
- A. E. Pitts Shoe Company, Columbus, Ohio. Men's leather and canvas shoes. No. 104,264; May 11; Gaz. vol. 214; p. 679.
- A. G. Hyde & Sons, New York, N. Y. Cotton, silk, mixed silk and cotton, and linen piece goods. No. 103,165; Mar. 16; Gaz. vol. 212; p. 1054.
- A. G. Jacobus' Sons, Incorporated, Verona, N. J. Mops, brooms, and floor-brushes. No. 106,048; Sept. 21; Gaz. vol. 218; p. 873.
- A. G. Morse Co., Chicago, Ill. Candy. No. 105,442; July 27; Gaz. vol. 216; p. 1313.
- A. H. Fox Gun Company, Philadelphia, Pa. Rifles and guns. No. 103,347; Mar. 30; Gaz. vol. 212; p. 1685.
- A. J. Hague & Co. Inc., New York, N. Y. Hair-nets. No. 102,922; Mar. 2; Gaz. vol. 212; p. 324.
- A. J. Reach Co., Philadelphia, Pa. Light ball for exercising. No. 102,173; Jan. 26; Gaz. vol. 210; p. 1392.
- A. J. Sheldon Co., New York, N. Y. Coffee, tea, olive-oils, and cocoa. No. 105,945; Aug. 31; Gaz. vol. 217; p. 1657.
- A. J. Tower Company, Boston, Mass. Oiled clothing. No. 105,703; Aug. 10; Gaz. vol. 217; p. 697.
- A. K. Hawkes Co., Atlanta, Ga. Spectacles. No. 105,531; Aug. 3; Gaz. vol. 217; p. 335.
- A. L. Burt Company, New York, N. Y. Series of books. No. 105,834; Aug. 24; Gaz. vol. 217; p. 1335.
- A. L. Burt Company, New York, N. Y. Book series. No. 106,294; Oct. 19; Gaz. vol. 219; p. 920.
- A. P. Babcock Co., New York, N. Y. Talcum, face, and sachet powders, toilet waters, and perfumes. No. 106,071; Oct. 5; Gaz. vol. 219; p. 267.
- A. R. Mosler & Co., New York, N. Y. Spark-plugs. No. 107,082; Nov. 9; Gaz. vol. 220; p. 674.
- A/S Arendal Smelteverk, Christiania and Arendal, Norway. Certain abrasive and polishing materials. No. 105,632; Aug. 10; Gaz. vol. 217; p. 694.
- A/S Egron, Christiania and Kløften, near Christiania, Norway. Dry or evaporated milk. No. 104,606; June 8; Gaz. vol. 215; p. 661.
- A. S. Gilman Printing Company, The, Cleveland, Ohio. Printed forms. No. 102,940; Mar. 2; Gaz. vol. 212; p. 324.
- A/S Nordisk Films Compagni, Copenhagen, Denmark. Motion-picture films. No. 103,367; Mar. 30; Gaz. vol. 212; p. 1685.
- A/S Norwegian Cannery's Export Office, Stavanger, Norway. Canned fish. Nos. 102,151-2; Jan. 26; Gaz. vol. 210; p. 1391.
- A/S Norwegian Cannery's Export Office, Stavanger, Norway. Certain named foods. No. 102,807; Feb. 23; Gaz. vol. 211; p. 1259.
- A. V. Victorius Co. Inc., New York, N. Y. Hosiery. No. 104,894; June 22; Gaz. vol. 215; p. 1259.
- A. W. Faber, Stein, near Nuremberg, Germany. Lead, &c., pencils, rubber pencils and erasers, penholders. No. 102,891; Mar. 2; Gaz. vol. 212; p. 323.
- A. W. Faber, Stein, near Nuremberg, Germany. Pencils, rubber erasers, penholders. No. 103,421; Apr. 6; Gaz. vol. 213; p. 351.
- A. W. Rosen & Co., New York, N. Y. Electric lamps and parts thereof, spark-plugs, lamp-adapters, &c. No. 107,529; Dec. 7; Gaz. vol. 221; p. 347.
- Abbey & Imbrie, New York, N. Y. Crab and fish traps. No. 105,286; July 13; Gaz. vol. 216; p. 660.
- Abel Estate, M. E., Easton, Pa. Candies. No. 104,584; June 8; Gaz. vol. 215; p. 661.
- Abenheim & Blessing, Inc., San Francisco, Cal. Certain named foods. No. 105,633; Aug. 10; Gaz. vol. 217; p. 694.
- Abner-Drury Brewing Co., Washington, D. C. Beer. No. 105,573; Aug. 10; Gaz. vol. 217; p. 693.
- Abraham & Straus, Brooklyn, N. Y. Ginger-ale, club and lemon soda, sarsaparilla, and grape-juice. No. 107,134; Nov. 16; Gaz. vol. 220; p. 1035.
- Abraham & Straus, Brooklyn, N. Y. Certain named foods. No. 107,230; Nov. 16; Gaz. vol. 220; p. 1038.
- Abrahamson, Abraham, Chicago, Ill. Ladies' coats and suits. No. 103,988; Apr. 27; Gaz. vol. 213; p. 1441.
- Acme-Evans Company, Indianapolis, Ind. Certain named foods. No. 106,921; Nov. 9; Gaz. vol. 220; p. 660.
- Acme Mills, The, Hopkinsville, Ky. Self-rising wheat-flour. No. 104,432; June 1; Gaz. vol. 215; p. 317.
- Acme Moistener & Mfg. Co., Chicago, Ill. Humidifiers. No. 107,039; Nov. 9; Gaz. vol. 220; p. 672.
- Acme Packing Company, Chicago, Ill. Certain named foods. No. 105,574; Aug. 10; Gaz. vol. 217; p. 693.
- Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 104,244; May 11; Gaz. vol. 214; p. 678.
- Acorn Mfg. Co., New York, N. Y. Toy building constituents. No. 101,613; Jan. 5; Gaz. vol. 210; p. 393.
- Adair & Bruyere, New York, N. Y. Piece goods of certain named materials. No. 106,390; Oct. 19; Gaz. vol. 219; p. 923.
- Adam Bros. & Sellers Fig Co., Alvin, Tex. Preserved figs. Nos. 104,691-2; June 15; Gaz. vol. 215; p. 971.
- Adams, Anna D., Chicago, Ill. Bath-salt. No. 104,193; May 11; Gaz. vol. 214; p. 677.
- Adams Brothers, Boston, Mass. Boots, shoes, and sandals. No. 103,932; Apr. 20; Gaz. vol. 213; p. 1113.
- Adams & Elting Company, Chicago, Ill. Polishes for metal. No. 102,886; Mar. 2; Gaz. vol. 212; p. 323.
- Adams, Thomas H., Vincennes, Ind. Digestive or food tonic for live stock. No. 102,953; Mar. 9; Gaz. vol. 212; p. 685.
- Adams & Westlake Company, The, Chicago, Ill. Electric lamps. No. 102,993; Mar. 16; Gaz. vol. 212; p. 1049.
- Adler, Herman S. Z., Port Chester, N. Y. Lap-ropes. No. 103,141; Mar. 16; Gaz. vol. 212; p. 1053.
- Adler, Leon N., New York, N. Y. Adhesive paste. No. 103,079; Mar. 16; Gaz. vol. 212; p. 1051.
- Adroit Manufacturing Co., The, Detroit, Mich. Coffee-grinders. No. 104,585; June 8; Gaz. vol. 215; p. 661.
- Advertogram Co., The, Chicago, Ill. Illuminated structural show-window signs. No. 105,832; Aug. 24; Gaz. vol. 217; p. 1335.
- Ady, Samuel J., Sharon, Md. Canned sweet corn. No. 102,776; Feb. 23; Gaz. vol. 211; p. 1258.
- Aegler, S. A., Bienne, Switzerland. Watches, clocks, parts of watches and clocks, and their cases. Nos. 101,818-19; Jan. 12; Gaz. vol. 210; p. 711.
- Aeolian Company, The, Meriden, Conn., and New York, N. Y. Musical instruments. No. 104,115; May 4; Gaz. vol. 214; p. 339.
- Aeolian Company, The, Meriden, Conn., and New York, N. Y. Musical instruments. No. 105,176; July 13; Gaz. vol. 216; p. 657.
- Aeolian Company, The, Meriden, Conn., and New York, N. Y. Certain named musical instruments and supplies. No. 105,177; July 13; Gaz. vol. 216; p. 657.
- Aeolian Company, The, Meriden, Conn., and New York, N. Y. Phonographs and phonographic supplies. No. 106,723; Oct. 26; Gaz. vol. 219; p. 1232.
- Aero Tailoring Company, Baltimore, Md. Coats, vests, trousers, overcoats, &c. No. 103,274; Mar. 30; Gaz. vol. 212; p. 1683.
- Aerotruss Engine Company, Chicago, Ill. Certain named machinery. No. 101,693; Jan. 5; Gaz. vol. 210; p. 395.
- Aggott, Annie, Boston, Mass. Medicine for rheumatism. No. 107,536; Dec. 7; Gaz. vol. 221; p. 347.
- Agra Company, Detroit, Mich. Perfumes. No. 106,084; Oct. 12; Gaz. vol. 219; p. 581.
- Ahrendt & Sons Co., The, Toledo, Ohio. Stomach-bitters. No. 104,501; June 1; Gaz. vol. 215; p. 319.

- Aimone Manufacturing Company, New York, N. Y. Certain named furniture. No. 103,142; Mar. 16; Gaz. vol. 212; p. 1053.
- Airplex Inner Tire Company, St. Louis, Mo. Certain automobile-tires and parts thereof. No. 102,644; Feb. 16; Gaz. vol. 211; p. 953.
- Akin-Erskine Milling Company, Evansville, Ind. Wheat-flour. No. 102,005; Jan. 26; Gaz. vol. 210; p. 1387.
- Akin-Erskine Milling Company, Evansville, Ind. Wheat-shorts. No. 102,260; Feb. 2; Gaz. vol. 211; p. 279.
- Akin-Erskine Milling Company, Evansville, Ind. Self-rising wheat-flour. No. 106,537; Oct. 26; Gaz. vol. 219; p. 1227.
- Akron Feed and Milling Company, The, Akron, Ohio. Stock and poultry feed. No. 102,006; Jan. 26; Gaz. vol. 210; p. 1387.
- Akron Tire Co., Inc., New York, N. Y. Rubber vehicle-tires. No. 106,085; Oct. 12; Gaz. vol. 219; p. 581.
- Aktiebolaget Eskilstuna Separator, Eskilstuna, Sweden. Separators and parts thereof. No. 106,133; Oct. 12; Gaz. vol. 219; p. 582.
- Aktiebolaget Grumme & Son, Stockholm, Sweden. Mouth-wash, tooth paste, powder, and cream. No. 103,556; Apr. 6; Gaz. vol. 213; p. 355.
- Aktiebolaget Svenska Kullagerfabriken, Gothenburg, Sweden. Certain named machinery and tools and parts thereof. Nos. 103,634-5; Apr. 13; Gaz. vol. 213; p. 739.
- Aktiebolaget Volvo, Gothenburg, Sweden. Certain named cutlery, tools, and parts thereof. No. 107,806; Dec. 28; Gaz. vol. 221; p. 1447.
- Aktiengesellschaft Der Eisen- & Stahlwerke vorm. Georg Fischer, Schaffhausen, Switzerland. Gas, water, and steam pipes and tubes and their fittings. No. 102,007; Jan. 26; Gaz. vol. 210; p. 1387.
- Aktiengesellschaft Johannes Jeserich, Charlottenburg-Berlin, Germany. Paints and varnishes for protection against atmospheric influences. No. 106,086; Oct. 12; Gaz. vol. 219; p. 581.
- Aktieselskabet Carls Nutranol-Fabrik, Copenhagen, Denmark. Medicinal tonics and flesh-builders. No. 101,667; Jan. 5; Gaz. vol. 210; p. 394.
- Aktieselskabet H. E. Gosch & Co.'s Tændstikfabriker Og Aktietændstikfabriken Godthaab, Copenhagen, Denmark. Matches. No. 106,391; Oct. 19; Gaz. vol. 219; p. 923.
- Al-Cool Fan Company, Chicago, Ill. Hot-air-driven fans. No. 107,437; Nov. 30; Gaz. vol. 220; p. 1715.
- Alabama Grocery Company, Birmingham, Ala. Wheat-flour. No. 105,948; Aug. 31; Gaz. vol. 217; p. 1657.
- Alart & McGuire, assignors to Alart & McGuire Co., New York, N. Y. Certain named foods. No. 104,082; Apr. 27; Gaz. vol. 213; p. 1444.
- Alart & McGuire Co. (See Alart & McGuire, assignors.)
- Alaska Fish Co., Seattle, Wash. Canned salmon. No. 107,135; Nov. 16; Gaz. vol. 220; p. 1035.
- Albany Chemical Co., Albany, Ga. Remedy for neuralgia and headache. No. 101,893; Jan. 19; Gaz. vol. 210; p. 1059.
- Albany Perforated Wrapping Paper Co., Albany, N. Y. Toilet-paper. No. 106,134; Oct. 12; Gaz. vol. 219; p. 582.
- Albany Perforated Wrapping Paper Co., Albany, N. Y. Toilet-paper, paper napkins and towels. No. 106,922; Nov. 9; Gaz. vol. 220; p. 669.
- Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 105,094; July 6; Gaz. vol. 216; p. 322.
- Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. Nos. 107,729-30; Dec. 28; Gaz. vol. 221; p. 1445.
- Alberger Pump and Condenser Company, New York, N. Y. Steam-condensers. No. 101,761; Jan. 12; Gaz. vol. 210; p. 710.
- Albert Dickinson Company, The, Chicago, Ill. Poultry feed. No. 105,293; July 13; Gaz. vol. 216; p. 660.
- Albert Lorsch & Co., Inc., New York, N. Y. Imitation pearls. No. 102,532; Feb. 9; Gaz. vol. 211; p. 639.
- Albert Pick & Co., Chicago, Ill. Metal-polish. No. 103,825; Apr. 13; Gaz. vol. 213; p. 744.
- Albodon Company, Inc., The, New York, N. Y. Dentifrices and antiseptic mouth-washes. No. 107,771; Dec. 28; Gaz. vol. 221; p. 1446.
- Aldrich, Herbert E., Philadelphia, Pa. Remedy for constipation. No. 107,136; Nov. 16; Gaz. vol. 220; p. 1035.
- Alexander & Co., Inc., New York, N. Y. Men's outer shirts. No. 104,923; June 29; Gaz. vol. 215; p. 1493.
- Alexander, John M., Marshalltown, Iowa. Preparations for treatment of dandruff and diseases of the bladder and kidneys. No. 106,025; Sept. 14; Gaz. vol. 218; p. 600.
- Alexander Smith, Limited, Battersea, London, England. Crucibles. No. 105,172; July 6; Gaz. vol. 216; p. 325.
- Alexandria Fertilizer & Chemical Co., Alexandria, Va. Fertilizers. No. 106,278; Oct. 19; Gaz. vol. 219; p. 919.
- Alfalfa Foods and Medicine Company, Minneapolis, Minn. Syrup for making carbonated non-alcoholic beverages. No. 104,586; June 8; Gaz. vol. 215; p. 661.
- Alois Kohn Chain Co., The, New York, N. Y. Jewelry. No. 106,341; Oct. 19; Gaz. vol. 219; p. 921.
- Alonzo K. Lynch Advance Oil Works, New York, N. Y. Coal-tar disinfectant. No. 107,183; Nov. 16; Gaz. vol. 220; p. 1036.
- Alqua Medicinal Water Co., San Francisco, Cal. Mineral waters. No. 104,411; May 25; Gaz. vol. 214; p. 1317.
- Alsberg & Co., Wm., New York, N. Y. Silk piece goods and lining-silks. No. 106,822; Nov. 2; Gaz. vol. 220; p. 342.
- Aluminum Cooking Utensil Co., The, Pittsburgh, Pa. Cooking utensils made of aluminum or alloys of same. No. 106,135; Oct. 12; Gaz. vol. 219; p. 582.
- Aluminum Goods Mfg. Company, Manitowoc, Wis. Certain named cooking utensils. No. 106,279; Oct. 19; Gaz. vol. 219; p. 919.
- Aluminum Goods Mfg. Company, Manitowoc, Wis. Aluminum toilet-combs. No. 106,538; Oct. 26; Gaz. vol. 219; p. 1227.
- Alvey-Ferguson Co., The, Cincinnati, Ohio. Conveyers and conveying machinery. No. 107,508; Dec. 7; Gaz. vol. 221; p. 346.
- All Comedy Films, Inc., New York, N. Y. Motion-picture films. Nos. 105,771-2; Aug. 17; Gaz. vol. 217; p. 1050.
- All-Package Grocery Stores Co., Brooklyn, N. Y. Canned fruits, vegetables, and sauer-kraut. No. 106,724; Oct. 26; Gaz. vol. 219; p. 1232.
- All-Package Grocery Stores Co., Brooklyn, N. Y. Certain named foods. No. 107,305; Nov. 23; Gaz. vol. 220; p. 1367.
- Allan, Roger S., Louisville, Ky. Tooth-paste, talcum powder, and toilet water. No. 103,686; Apr. 13; Gaz. vol. 213; p. 740.
- Allen, Charles A., Jr., La Grange and Chicago, Ill. Coffee-percolators. No. 102,728; Feb. 23; Gaz. vol. 211; p. 1257.
- Allen & Co., S. L., Philadelphia, Pa. Sleds. No. 104,116; May 4; Gaz. vol. 214; p. 339.
- Allen-Foster-Willett Co., Lynn, Mass. Ladies' and misses' boots and shoes. No. 101,894; Jan. 19; Gaz. vol. 210; p. 1059.
- Allen & Lewis, Portland, Oreg. Certain named foods. No. 101,895; Jan. 19; Gaz. vol. 210; p. 1059.
- Allen, Otis J., Atlanta, Ga. Automobile and furniture polish. No. 103,368; Mar. 30; Gaz. vol. 212; p. 1685.
- Allen-Sponsel Company, The, Hartford, Conn. Sash-cord and sash-chain fasteners. No. 102,324; Feb. 9; Gaz. vol. 211; p. 633.
- Alliston, McIntyre & Co., Inc., New York, N. Y. Sateen. No. 102,854; Feb. 23; Gaz. vol. 211; p. 1260.
- Allwin Dress Company, Inc., New York, N. Y. Children's dresses. No. 104,083; Apr. 27; Gaz. vol. 213; p. 1444.
- Alphaduct Company, Jersey City, N. J. Non-metallic flexible electrical conduits. No. 103,636; Apr. 13; Gaz. vol. 213; p. 739.
- Alpine Dairy Company, Algoma, Wis. Cheese. No. 103,637; Apr. 13; Gaz. vol. 213; p. 739.
- Altenderfer Leather Company, Philadelphia, Pa. Patent-leather. No. 101,726; Jan. 12; Gaz. vol. 210; p. 709.
- Am-O-Lox Company, The, Youngstown, Ohio. Remedy for skin and scalp diseases. No. 103,934; Apr. 20; Gaz. vol. 213; p. 1113.
- Amalgamated Concessions Co., San Francisco, Cal. Candy, popcorn, and peanuts. Nos. 105,886-7; Aug. 24; Gaz. vol. 217; p. 1336.
- Amalgamated Concessions Co., San Francisco, Cal. Popcorn and peanut confections. No. 106,823; Nov. 2; Gaz. vol. 220; p. 343.
- Amalgamated Paint Company, Jersey City, N. J., and New York, N. Y. Paints. No. 107,827; Dec. 28; Gaz. vol. 221; p. 1448.
- Amazon Knitting Company, Muskegon, Mich. Elastic tape. No. 102,483; Feb. 9; Gaz. vol. 211; p. 637.
- Amazon Products Co., Muskegon, Mich. Children's clothing-supporting waists. No. 104,693; June 15; Gaz. vol. 215; p. 971.
- Amazon Products Company, Muskegon, Mich. Children's underwear. No. 107,137; Nov. 16; Gaz. vol. 220; p. 1035.
- American Agricultural Chemical Co., New York, N. Y. Fertilizers. Nos. 101,820-1; Jan. 12; Gaz. vol. 210; p. 712.
- American Agricultural Chemical Co., New York, N. Y. Fertilizer. Nos. 102,008-10; Jan. 26; Gaz. vol. 210; p. 1387.
- American Agricultural Chemical Co., New York, N. Y. Fertilizers. Nos. 102,484-5; Feb. 9; Gaz. vol. 211; p. 637.
- American Agricultural Chemical Co., New York, N. Y. Fertilizers. Nos. 102,553-4; Feb. 16; Gaz. vol. 211; p. 951.
- American Agricultural Chemical Co., New York, N. Y. Fertilizer. No. 102,645; Feb. 16; Gaz. vol. 211; p. 953.
- American Agricultural Chemical Co., New York, N. Y. Fertilizer. No. 102,778; Feb. 23; Gaz. vol. 211; p. 1258.
- American Agricultural Chemical Co., New York, N. Y. Fertilizer. No. 103,214; Mar. 23; Gaz. vol. 212; p. 1353.
- American Agricultural Chemical Co., New York, N. Y. Fertilizers. No. 103,743; Apr. 13; Gaz. vol. 213; p. 742.
- American Agricultural Chemical Co., New York, N. Y. Fertilizers. No. 104,312; May 18; Gaz. vol. 214; p. 1022.

Alphabetical list of registrants of trade-marks—Continued.

- American Agricultural Chemical Co., New York, N. Y. Fertilizers. No. 104,370; May 25; Gaz. vol. 214; p. 1315.
- American Agricultural Chemical Co., New York, N. Y. Fertilizers. No. 104,433; June 1; Gaz. vol. 215; p. 317.
- American Agricultural Chemical Co., New York, N. Y. Fertilizer. No. 105,178; July 13; Gaz. vol. 216; p. 657.
- American Agricultural Chemical Co., New York, N. Y. Fertilizer. No. 105,709; Aug. 17; Gaz. vol. 217; p. 1049.
- American Agricultural Chemical Co., New York, N. Y. Ground-bone fertilizers. No. 105,710; Aug. 17; Gaz. vol. 217; p. 1049.
- American Apothecaries Company, New York, N. Y. Medicinal preparation in liquid, syrup and tablet form for treating certain named diseases. No. 103,933; Apr. 20; Gaz. vol. 213; p. 1113.
- American Asbestos Company, Norristown, Pa. Brake-linings. No. 104,194; May 11; Gaz. vol. 214; p. 677.
- American Axe & Tool Company, Glassport, Pa., and New York, N. Y. Certain named cutlery and tools. Nos. 105,636-7; Aug. 10; Gaz. vol. 217; p. 695.
- American Bakeries Co., Atlanta, Ga. Crackers, biscuit, wafers, &c. No. 106,924; Nov. 9; Gaz. vol. 220; p. 669.
- American Bead Company Inc., New York, N. Y. Ornamental beads and buttons. No. 105,331; July 20; Gaz. vol. 216; p. 1007.
- American Belt Corporation, New York, N. Y. Garters, suspenders, belts. No. 106,539; Oct. 26; Gaz. vol. 219; p. 1227.
- American Blower Company, Detroit, Mich. Certain named machinery, tools, and parts thereof. No. 106,824; Nov. 2; Gaz. vol. 220; p. 343.
- American Blower Company, Detroit, Mich. Certain named heating, lighting, &c., apparatus. No. 107,720; Dec. 21; Gaz. vol. 221; p. 1036.
- American Brake Shoe & Foundry Company, Mahwah, N. J., and New York, N. Y. Brake-shoes. No. 102,594; Feb. 16; Gaz. vol. 211; p. 952.
- American Brake Shoe & Foundry Company, Mahwah, N. J., and New York, N. Y. Brake-shoes. No. 106,193; Oct. 19; Gaz. vol. 219; p. 917.
- American Brake Shoe & Foundry Company, Mahwah, N. J., and New York, N. Y. Brake-shoes. No. 106,280; Oct. 19; Gaz. vol. 219; p. 919.
- American Brass Company, The, Ansonia, Conn. Rivets and burs. No. 106,136; Oct. 12; Gaz. vol. 219; p. 582.
- American Brewing Co., New Orleans, La. Lager-beer. No. 105,969; Sept. 7; Gaz. vol. 218; p. 317.
- American Buyer, Inc., The, New York, N. Y. Weekly periodical. No. 106,194; Oct. 19; Gaz. vol. 219; p. 917.
- American Caramel Company, York and Lancaster, Pa. Caramels and candies. No. 103,881; Apr. 20; Gaz. vol. 213; p. 1112.
- American Caramel Company, York, Pa. Caramels and candies. No. 104,919; June 22; Gaz. vol. 215; p. 1260.
- American Chain Company, Incorporated, New York, N. Y., and Bridgeport, Conn. Base-metal chain. No. 107,772; Dec. 28; Gaz. vol. 221; p. 1446.
- American Chemical Company, Philadelphia, Pa. Witch-hazel. No. 105,478; July 27; Gaz. vol. 216; p. 1314.
- American Chemical Paint Company, Philadelphia, Pa. Liquid chemical solution for removing rust and grease from metal surfaces. No. 104,434; June 1; Gaz. vol. 215; p. 317.
- American Chic Company, Incorporated, Jersey City, N. J., and New York, N. Y. Chewing-gum. No. 102,242; Feb. 2; Gaz. vol. 211; p. 279.
- American Circular Loom Co., Pittsburgh, Pa., and Boston, Mass. Electric non-metallic flexible conduits. No. 102,241; Feb. 2; Gaz. vol. 211; p. 279.
- American Coal Refining Company, The, Denver, Colo. Liquid fuel for explosive-gas engines. No. 102,011; Jan. 26; Gaz. vol. 210; p. 1387.
- American Compounding Co., Jasper, Ala. Medicinal preparation for pellagra. No. 107,509; Dec. 7; Gaz. vol. 221; p. 346.
- American Creosoting Company, New York, N. Y. Wood paving-blocks. No. 104,296; May 18; Gaz. vol. 214; p. 1021.
- American Disinfecting Co., Sedalia, Mo. Mops. No. 106,392; Oct. 19; Gaz. vol. 219; p. 923.
- American Drug & Press Association, Decorah, Iowa. Certain named pharmaceutical preparations. No. 104,924; June 29; Gaz. vol. 215; p. 1493.
- American Flyer Manufacturing Company, Chicago, Ill. Mechanical toys. No. 107,138; Nov. 16; Gaz. vol. 220; p. 1035.
- American Food Products Company, The, Dayton, Ohio. Liquid condiment for salads. No. 103,551; Apr. 6; Gaz. vol. 213; p. 355.
- American Hard Rubber Co., New York, N. Y. Syringes. No. 106,825; Nov. 2; Gaz. vol. 220; p. 343.
- American Hardware Corporation, New Britain, Conn. Certain named hardware and plumbing supplies. Nos. 104,138-9; May 4; Gaz. vol. 214; p. 339.
- American Hardware Corporation, The, New Britain, Conn. Certain named locks and parts thereof and safes. Nos. 103,605-7; Apr. 6; Gaz. vol. 213; p. 357.
- American Hardware Corporation, The, New Britain, Conn. Certain named hardware supplies. No. 104,281; May 18; Gaz. vol. 214; p. 1021.
- American Hardware Corporation, The, New Britain, Conn. Certain named hardware, plumbing, and steam-fitting supplies. No. 105,521; Aug. 3; Gaz. vol. 217; p. 335.
- American Hardware Corporation, The, New Britain, Conn. Certain named hardware and plumbing supplies. No. 107,821; Dec. 28; Gaz. vol. 221; p. 1447.
- American Hardware and Supply Company, Pittsburgh, Pa. Certain named cutlery and tools. No. 103,608; Apr. 6; Gaz. vol. 213; p. 357.
- American Hominy Company, Indianapolis, Ind. Stock feed, a by-product of corn, not medicated. No. 105,245; July 13; Gaz. vol. 216; p. 659.
- American Industrial Laboratory, Chicago, Ill. Insecticides. No. 106,540; Oct. 26; Gaz. vol. 219; p. 1227.
- American Knitting Co., Waltham, Mass. Sweaters, leggings, caps, and children's knitted suits. No. 105,332; July 20; Gaz. vol. 216; p. 1007.
- American Lead Pencil Company, New York, N. Y. Rubber erasers. No. 101,614; Jan. 5; Gaz. vol. 210; p. 393.
- American Life-Saving Garment Company, Boston, Mass. Buoyant life-saving coats and waistcoats. No. 102,486; Feb. 9; Gaz. vol. 211; p. 637.
- American Lithographic Co., New York, N. Y. Lithographed, printed, and mechanically-reproduced pictures and representations. Nos. 107,658-9; Dec. 14; Gaz. vol. 221; p. 733.
- American Lock-Nut Company, Chicago, Ill. Lock-nuts. No. 106,725; Oct. 26; Gaz. vol. 219; p. 1232.
- American Macaroni Co., St. Louis, Mo. Alimentary paste. No. 102,012; Jan. 26; Gaz. vol. 210; p. 1387.
- American Manganese Steel Company, Augusta, Me., and Chicago, Ill. Ball-mill liners, castings, and forgings. No. 106,726; Oct. 26; Gaz. vol. 219; p. 1232.
- American Manufacturing Co., Boston, Mass., and New York, N. Y. Monthly magazine. No. 104,522; June 1; Gaz. vol. 215; p. 319.
- American Manufacturing Co., Boston, Mass., and New York, N. Y. Rope, cord, lines, and twine made from vegetable fiber. No. 105,179; July 13; Gaz. vol. 216; p. 657.
- American Manufacturing Company, Boston, Mass., and New York, N. Y. Twines made from vegetable fiber. No. 103,369; Mar. 30; Gaz. vol. 212; p. 1686.
- American Manufacturing Co., Chattanooga, Tenn. Shovels. Nos. 107,828-30; Dec. 28; Gaz. vol. 221; p. 1448.
- American Mfg. & Sales Company, York, Pa. Incrustation-preventer and scale-remover. No. 106,925; Nov. 9; Gaz. vol. 220; p. 669.
- American Model & Instrument Company, Worcester, Mass. Electrical calling, fire-alarm, and signaling systems, sign-flashers, &c. No. 105,773; Aug. 17; Gaz. vol. 217; p. 1051.
- American Oil Processes, Limited, Denver and Loomis, Colo. Gasolene. No. 106,087; Oct. 12; Gaz. vol. 219; p. 581.
- American Ointment Co., The, New Brighton, Pa. Improved medicated ointment. Nos. 105,307-8; July 20; Gaz. vol. 216; p. 1007.
- American Optical Company, Southbridge, Mass. Ophthalmic mountings and parts thereof. No. 101,822; Jan. 12; Gaz. vol. 210; p. 712.
- American Optical Company, Southbridge, Mass. Certain named measuring and scientific appliances. No. 104,664; June 8; Gaz. vol. 215; p. 663.
- American Pad & Paper Company, Holyoke, Mass. Writing-paper. No. 106,281; Oct. 19; Gaz. vol. 219; p. 919.
- American Paper Goods Company, Montclair, N. J., and Berlin, Conn. Printing-presses. No. 104,759; June 15; Gaz. vol. 215; p. 973.
- American Photo Player Company, Berkeley, Cal. Pneumatically-operated pianos and orchestrons. Nos. 102,828-9; Feb. 23; Gaz. vol. 211; pp. 1259-60.
- American Piano Co., Jersey City, N. J., and New York, N. Y. Piano-players, player-pianos, and note-sheets for same. No. 103,335; Mar. 30; Gaz. vol. 212; p. 1685.
- American Piano Co., Jersey City, N. J., and New York, N. Y. Note-sheets for automatic or partly-automatic musical instruments, piano-players, and player-pianos. No. 104,346; May 25; Gaz. vol. 214; p. 1315.
- American Piano Company, Jersey City, N. J., and New York, N. Y. Note-sheets for automatic or partly-automatic musical instruments, piano-players, and player-pianos. No. 105,246; July 13; Gaz. vol. 216; p. 659.
- American Piano Co., New York, N. Y. Certain musical instruments, parts and supplies therefor. No. 104,140; May 4; Gaz. vol. 214; p. 339.
- American Pin Company, The, Waterbury, Conn. Toilet-pins (including safety-pins) and books and eyes. No. 102,013; Jan. 26; Gaz. vol. 210; p. 1387.
- American Pin Company, The, Waterbury, Conn. Hooks and eyes. No. 102,349; Feb. 9; Gaz. vol. 211; p. 633.
- American "Radio-Thor-X" Company, The, Chicago, Ill. Certain named therapeutic machines. No. 102,014; Jan. 26; Gaz. vol. 210; p. 1387.
- American Rolling Mill Co., The, Middletown, Ohio. Bars, billets, castings, forgings, &c., of pure iron. No. 104,245; May 11; Gaz. vol. 214; p. 678.
- American Rotographic Company, New York, N. Y. Printing-ink. No. 102,015; Jan. 26; Gaz. vol. 210; p. 1387.

- American Rubber Company, Boston, Mass. Rubber boots and shoes. No. 101,896; Jan. 19; Gaz. vol. 210; p. 1059.
- American Rubber Company of Chicago, Chicago, Ill. Rain-coats. No. 105,774; Apr. 17; Gaz. vol. 217; p. 1051.
- American Sales and Service Co., Harrisburg, Pa. Baggage-checks. No. 102,350; Feb. 9; Gaz. vol. 211; p. 633.
- American Sales and Service Co., Harrisburg, Pa. Identification-tags and baggage-checks. No. 103,405; Apr. 6; Gaz. vol. 213; p. 351.
- American Shoe Polish Company, The, Chicago, Ill. Shoe blackings and polishes. No. 101,668; Jan. 5; Gaz. vol. 210; p. 394.
- American Stove Company, St. Louis, Mo. Wood, coal, gas, and vapor stoves and heaters. No. 106,541; Oct. 26; Gaz. vol. 219; p. 1227.
- American Thermos Bottle Company, Norwich, Conn. Tea, coffee, chocolate, cocoa, and bouillon. No. 104,371; May 25; Gaz. vol. 214; p. 1315.
- American Tropical Trading Company, Inc., New York, N. Y. Leaf chewing and smoking tobacco and snuff. No. 102,994; Mar. 16; Gaz. vol. 212; p. 1049.
- American Washer Co., St. Louis, Mo. Washing-Machines and benches for same. No. 102,667; Feb. 23; Gaz. vol. 211; p. 1255.
- Ames, Frederic A., Owensboro, Ky. Automobiles and buggies. No. 107,485; Dec. 7; Gaz. vol. 221; p. 345.
- Amies Cement Company, Philadelphia, Pa. Certain alkaline cement for building and construction purposes. No. 102,016; Jan. 26; Gaz. vol. 210; p. 1337.
- Amies, Joseph H., Philadelphia, Pa. Bituminous and alkaline paving composition. No. 104,066; Apr. 27; Gaz. vol. 213; p. 1443.
- Ammidon & Co., Baltimore, Md. Metal dish-pans. No. 106,137; Oct. 12; Gaz. vol. 219; p. 532.
- Ammon & Person, Jersey City, N. J. Butter. No. 107,591; Dec. 14; Gaz. vol. 221; p. 731.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 101,823; Jan. 12; Gaz. vol. 210; p. 712.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton bags. No. 102,017; Jan. 26; Gaz. vol. 210; p. 1337.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton bags. Nos. 102,954-5; Mar. 9; Gaz. vol. 212; p. 685.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton bags. No. 105,634; Aug. 10; Gaz. vol. 217; p. 696.
- Ampey, John, Chicago, Ill. Eye remedy. No. 107,537; Dec. 7; Gaz. vol. 221; p. 347.
- Amsden & Sons Ltd., Olney, London, England. Sewing-needles. No. 102,352; Feb. 9; Gaz. vol. 211; p. 634.
- Amsterdamsche Likeurstokerij, "T Looijsje" der Erven Lucas Bols, Amsterdam, Netherlands. Gins and liqueurs. Nos. 106,727-8; Oct. 26; Gaz. vol. 219; p. 1232.
- Amsterdamsche Superfosfaatfabriek, Minervahaven, near the North Sea Canal, Amsterdam, Netherlands. Chemical products for exterminating diseases of plants and vegetables. No. 103,882; Apr. 20; Gaz. vol. 213; p. 1112.
- Anacortes Ice Co., Anacortes, Wash. Orange-flavored uncarbonated beverages. No. 106,826; Nov. 2; Gaz. vol. 220; p. 343.
- Anatomik Footwear Company, The, New York, N. Y. Leather boots, shoes, slippers, and sandals. No. 103,935; Apr. 20; Gaz. vol. 213; p. 1113.
- Anderson, Selden W., Akron, Ohio. Elastic inflatable toy balls. No. 102,487; Feb. 9; Gaz. vol. 211; p. 638.
- Andrew Jergens Co., The, Cincinnati, Ohio. Perfumery, face and talcum powders. No. 105,852; Aug. 24; Gaz. vol. 217; p. 1335.
- Andrews, Oliver B., Chattanooga, Tenn. Salve for the destruction of lice and mites on poultry and other birds. No. 102,353; Feb. 9; Gaz. vol. 211; p. 634.
- Andrews Wire and Iron Works, Rockford, Ill. Certain named hardware supplies. No. 101,728; Jan. 12; Gaz. vol. 210; p. 709.
- Anger-Brobel Co., Inc., New York, N. Y. Alimentary pastes. No. 107,592; Dec. 14; Gaz. vol. 221; p. 731.
- Anglo-American Pharmaceutical Company, Croydon, England, and New York, N. Y. Tonic medicine. No. 104,084; Apr. 27; Gaz. vol. 213; p. 1444.
- Anglo-American Pharmaceutical Company Limited, Croydon, England, and New York, N. Y. Lactic ferments in tablet form. No. 107,538; Dec. 7; Gaz. vol. 221; p. 347.
- Anglo Mexican Petroleum Products Company, Limited, London, England, and New York, N. Y. Asphaltum. No. 104,282; May 18; Gaz. vol. 214; p. 1021.
- Angsten-Koch Company, Chicago, Ill. Tandem seats, luggage and parcel carriers, lamp-brackets, &c. No. 104,694; June 15; Gaz. vol. 215; p. 971.
- Ankyra Manufacturing Company, Philadelphia, Pa. Expansion, anchor, and toggle bolts. No. 105,804; Aug. 17; Gaz. vol. 217; p. 1051.
- Annin & Co., New York, N. Y. Manufactured flags. No. 104,313; May 18; Gaz. vol. 214; p. 1022.
- Annin & Co., New York, N. Y. Manufactured flags. No. 105,775; Aug. 17; Gaz. vol. 217; p. 1051.
- Annin & Co., New York, N. Y. Manufactured flags. No. 106,088; Oct. 12; Gaz. vol. 219; p. 531.
- Ansbacher Insecticide Co., Inc., New York, N. Y. Insecticides and fungicides. No. 104,366; May 25; Gaz. vol. 214; p. 1315.
- Ansbacher Insecticide Co., Inc., New York, N. Y. Insecticides and fungicides. No. 104,695; June 15; Gaz. vol. 215; p. 971.
- Anso Company, Binghamton, N. Y. Cameras, films, and sensitized photographic papers. No. 102,779; Feb. 23; Gaz. vol. 211; p. 1258.
- Anso Company, Binghamton, N. Y. Chemicals and preparations and compounds thereof for photographic processes. No. 103,215; Mar. 23; Gaz. vol. 212; p. 1353.
- Ansonia O & C Company, The, Ansonia, Conn. Woven and braided webbing, tapes, and braids. No. 102,351; Feb. 9; Gaz. vol. 211; p. 633.
- Ansted & Burk Co., The, Springfield, Ohio. Wheat-flour. No. 102,018; Jan. 26; Gaz. vol. 210; p. 1387.
- Ansted & Burk Co., The, Springfield, Ohio. Self-rising wheat-flour. No. 102,019; Jan. 26; Gaz. vol. 210; p. 1387.
- Ansted & Burk Co., The, Springfield, Ohio. Cornmeal. No. 107,593; Dec. 14; Gaz. vol. 221; p. 731.
- Antholine Company, The, Hutchinson, Kans. Certain pharmaceutical preparation and remedy for certain diseases. No. 106,926; Nov. 9; Gaz. vol. 220; p. 669.
- Anthony Pharmacy, New York, N. Y. Candy laxative. No. 105,575; Aug. 10; Gaz. vol. 217; p. 693.
- Antipainola Company, The, Willacochee, Ga. Treating rheumatism, neuralgia, dropsy, &c. No. 107,464; Nov. 30; Gaz. vol. 220; p. 1716.
- Apex Electric Manufacturing Company, Chicago, Ill. Automobile, motor-cycle, and bicycle pumps. No. 105,414; July 20; Gaz. vol. 216; p. 1010.
- Apex Electrical Manufacturing Co., The, Cleveland, Ohio. Electric vacuum-cleaners. No. 105,007; June 29; Gaz. vol. 215; p. 1495.
- Aplin Company, The, Ventura, Cal. Dried beans. No. 107,752; Dec. 28; Gaz. vol. 221; p. 1445.
- Appleby Brothers, Fayetteville, Ark. Canned fruits and vegetables. No. 105,035; July 6; Gaz. vol. 216; p. 321.
- Appleton Car-Mover Co., Appleton, Wis. Car-movers. No. 102,555; Feb. 16; Gaz. vol. 211; p. 951.
- Appleton Company, Lowell, Mass. Cotton piece goods. No. 103,143; Mar. 16; Gaz. vol. 212; p. 1053.
- Aquamarine Company, Oakland, Cal. Laxative mineral water. No. 104,696; June 15; Gaz. vol. 215; p. 971.
- Arbuckle Bros., New York, N. Y., and Chicago, Ill. Sugar, cane-syrup, cocoa, &c. No. 102,995; Mar. 16; Gaz. vol. 212; p. 1049.
- Arbuckle Brothers, New York, N. Y., and Chicago, Ill. Coffee. No. 103,638; Apr. 13; Gaz. vol. 213; p. 739.
- Arlon Manufacturing Company, Boston, Mass. Talking-machines. No. 105,712; Aug. 17; Gaz. vol. 217; p. 1049.
- Arizona Gypsum Plaster Co., Douglas, Ariz. Ground and calcined gypsum plaster. No. 106,138; Oct. 12; Gaz. vol. 219; p. 582.
- Arkadelphia Milling Co., Arkadelphia, Ark. Self-rising wheat-flour. Nos. 102,488-9; Feb. 9; Gaz. vol. 211; p. 638.
- Arkansas Grocer Co., Blytheville, Ark. Certain named foods. No. 103,639; Apr. 13; Gaz. vol. 213; p. 739.
- Arkay Rubber Co., New York, N. Y. Rubber elastic bands. No. 104,697; June 15; Gaz. vol. 215; p. 971.
- Arlington Chemical Co., Yonkers, N. Y. Remedy for intestinal troubles. No. 102,490; Feb. 9; Gaz. vol. 211; p. 638.
- Arlington Chemical Co., The, Yonkers, N. Y. Medicinal foods for invalids, &c. No. 103,774; Apr. 13; Gaz. vol. 213; p. 743.
- Arlington Mills, Lawrence and Boston, Mass. Worsteds piece goods. No. 106,827; Nov. 2; Gaz. vol. 220; p. 343.
- Arlington Mills, Lawrence and Boston, Mass. Wool tops. No. 106,927; Nov. 9; Gaz. vol. 220; p. 669.
- Arly, Inc., New York, N. Y. Perfumes and talcum powders. No. 107,139; Nov. 16; Gaz. vol. 220; p. 1035.
- Armiger Chemical Co., Chicago, Ill. Wood-polish. No. 101,729; Jan. 12; Gaz. vol. 210; p. 709.
- Armour and Company, Chicago, Ill. Specific activators of the intestinal digestive glands. No. 105,180; July 13; Gaz. vol. 216; p. 657.
- Armstrong Cork Company, Pittsburgh, Pa. Corks, and particularly wood-top corks. No. 106,195; Oct. 19; Gaz. vol. 219; p. 917.
- Armstrong, Frank C., Terra Ceia, Fla. Oranges and grape-fruit. No. 103,337; Mar. 30; Gaz. vol. 212; p. 1685.
- Armstrong, George B., Chicago, Ill. Trade journal issued monthly. No. 103,336; Mar. 30; Gaz. vol. 212; p. 1685.
- Arnold Brothers, Chicago, Ill. Hams, bacon, lard, sausage, beef, and pork. No. 102,020; Jan. 26; Gaz. vol. 210; p. 1387.
- Arnold, Francis R., New York, N. Y. Handles of composition or base metal for toilet articles. No. 106,928; Nov. 9; Gaz. vol. 220; p. 669.
- Arnold Printing Company, Jacksonville, Fla. Letter and bill heads, statements, envelopes, &c. No. 102,021; Jan. 26; Gaz. vol. 210; p. 1387.

Alphabetical list of registrants of trade-marks—Continued.

- Aromint Company, The, Cincinnati, Ohio. Compressed candy tablets. No. 102,491; Feb. 9; Gaz. vol. 211; p. 638.
- Arrow Boiler Compound Company, St. Louis, Mo. Boiler compounds for preventing and removing scale formations. No. 105,309; July 20; Gaz. vol. 216; p. 1007.
- Arrow Electric Company, Hartford, Conn. Certain named electrical fittings. No. 106,282; Oct. 19; Gaz. vol. 219; p. 919.
- Arrow Medicine Co., Philadelphia, Pa. Remedy for constipation, &c. No. 107,675; Dec. 21; Gaz. vol. 221; p. 1035.
- Art Metal Construction Co., Jamestown, N. Y. Partitions, doors, bronze and steel work for banks, &c., railings, and stairs. No. 107,140; Nov. 16; Gaz. vol. 220; p. 1035.
- Art Metal Construction Co., Jamestown, N. Y. Certain named furniture. No. 107,141; Nov. 16; Gaz. vol. 220; p. 1035.
- Art Metal Construction Co., Jamestown, N. Y. Safety-deposit boxes. No. 107,701; Dec. 21; Gaz. vol. 221; p. 1035.
- Art Metal Construction Co., Jamestown, N. Y. Safes. No. 107,702; Dec. 21; Gaz. vol. 221; p. 1035.
- Arthur Koenig Company, Milwaukee, Wis. Woolen piece goods. No. 106,629; Oct. 26; Gaz. vol. 219; p. 1229.
- Arthur Wolfsohn Co. Inc., New York, N. Y. Brussels silk net. No. 107,657; Dec. 14; Gaz. vol. 221; p. 733.
- Asam Brothers, Incorporated, Philadelphia, Pa. Wall-papers. No. 106,929; Nov. 9; Gaz. vol. 220; p. 669.
- Asam Brothers, Incorporated, Philadelphia, Pa. Painters' dusters and brushes. No. 107,306; Nov. 23; Gaz. vol. 220; p. 1367.
- Asch & Sons, J. T., New York, N. Y. Hats. No. 103,144; Mar. 16; Gaz. vol. 212; p. 1053.
- Ashford Company, The, Pittsburgh, Pa. Canned goods and butter. No. 103,145; Mar. 16; Gaz. vol. 212; p. 1053.
- Ashforth, Albert B., New York, N. Y. Golf-clubs. No. 105,638; Aug. 10; Gaz. vol. 217; p. 695.
- Ashuelot Shoe Company, Keene, N. H. Leather and canvas boots and shoes. No. 106,283; Oct. 19; Gaz. vol. 219; p. 919.
- Aspegren & Co., New York, N. Y. Salad-oil pressed from cotton-seed. No. 104,587; June 8; Gaz. vol. 215; p. 661.
- Associated Automatic Sprinkler Co., Dover, Del., and Philadelphia, Pa. Automatic sprinklers. No. 105,008; June 29; Gaz. vol. 215; p. 1495.
- Atlanta Refining & Manufacturing Company, Atlanta, Ga. Oleaginous compound for pastry-shortening. No. 103,844; Apr. 20; Gaz. vol. 213; p. 1111.
- Atlantic Chemical Corporation, The, Norfolk, Va. Fertilizers. No. 102,729; Feb. 23; Gaz. vol. 211; p. 1257.
- Atlantic Chemical Corporation, The, Norfolk, Va. Fertilizers. Nos. 105,095-6; July 6; Gaz. vol. 216; p. 322.
- Atlantic Chemical Corporation, The, Norfolk, Va. Fertilizers. Nos. 107,231-3; Nov. 16; Gaz. vol. 220; p. 1038.
- Atlantic Drier & Varnish Co., Philadelphia, Pa. Varnishes, stains, enamels, and mixed paints. No. 105,147; July 6; Gaz. vol. 216; p. 324.
- Atlantic Export Company, New York, N. Y. Dried brewers' and distillers' grains used as cattle feed. No. 104,195; May 11; Gaz. vol. 214; p. 677.
- Atlantic Manufacturing Company, Wilmington, Del. Rubber heels for boots and shoes. No. 104,967; June 29; Gaz. vol. 215; p. 1494.
- Atlantic Refining Company, The, Philadelphia, Pa. Certain named oils, greases, candles, and paraffin-wax. No. 102,243; Feb. 2; Gaz. vol. 211; p. 279.
- Atlantic Varnish Works, Inc., Richmond, Va. Varnish. No. 103,406; Apr. 6; Gaz. vol. 213; p. 351.
- Atlas Paint Company, The, New York, N. Y. Ready-mixed and semipaste paints and varnishes. Nos. 101,897-8; Jan. 19; Gaz. vol. 210; p. 1059.
- Atlas Tack Company, Fairhaven, Mass. Tacks, rivets, burs, nails, &c. No. 106,729; Oct. 26; Gaz. vol. 219; p. 1232.
- Atlas Tank Manufacturing Co., Fort Bragg, Cal. Tanks, particularly wooden. No. 107,142; Nov. 16; Gaz. vol. 220; p. 1035.
- Attridge, Eugene M., Binghamton, N. Y. Certain named pharmaceutical preparation for toilet use. No. 104,435; June 1; Gaz. vol. 215; p. 317.
- Attridge, Eugene M., Binghamton, N. Y. Chocolates, bonbons, caramels, &c. No. 104,588; June 8; Gaz. vol. 215; p. 661.
- Attridge, Eugene M., Binghamton, N. Y. Soap for toilet shaving, and laundry purposes, washing powders and compounds. No. 104,699; June 15; Gaz. vol. 215; p. 971.
- Attridge, Eugene M., Binghamton, N. Y. Cigarettes, cigars, cheroots, and manufactured tobacco. No. 105,097; July 6; Gaz. vol. 216; p. 322.
- Auburn Ignition Mfg. Co., The, Auburn, N. Y. Spark-plugs and valve-lifters. No. 106,089; Oct. 12; Gaz. vol. 219; p. 581.
- Audit Bureau of Circulations, Chicago, Ill. Statements, auditors' reports, and bulletins issued periodically. No. 102,730; Feb. 23; Gaz. vol. 211; p. 1257.
- August E. Steffen Company, Davenport, Iowa. Hats, caps, coats, shirts, &c. No. 103,184; Mar. 16; Gaz. vol. 212; p. 1054.
- August Maag Co., The, Baltimore, Md. Baking-pans. No. 102,926; Mar. 2; Gaz. vol. 212; p. 324.
- Augustine & Kyer, Seattle, Wash. Candy. No. 102,646; Feb. 16; Gaz. vol. 211; p. 953.
- Ault-Williamson Shoe Co., Ellsworth, Me. Men's and women's boots and shoes. No. 106,393; Oct. 19; Gaz. vol. 219; p. 923.
- Aunkst, Daniel E., Milton, Pa. Illuminating, power, and lubricating oils. No. 102,244; Feb. 2; Gaz. vol. 211; p. 279.
- Aunt Emma's Co., The, Waukegan, Ill. Medicinal preparation for goiter. No. 103,843; Apr. 13; Gaz. vol. 213; p. 745.
- Aunt Jemima Mills Company, St. Joseph, Mo. Self-rising wheat-flour. No. 106,542; Oct. 26; Gaz. vol. 219; p. 1227.
- Aunt Jemima Mills Company, St. Joseph, Mo. Mixture of wheat and corn flour. No. 106,543; Oct. 26; Gaz. vol. 219; p. 1227.
- Aurora Cotton Mills, Burlington, N. C. Gingham, seersuckers, plaids, outing-flannels, &c. No. 104,283; May 18; Gaz. vol. 214; p. 1021.
- Austin-Nichols & Co., Inc., New York, N. Y. Canned fruits, vegetables, and salmon, condensed milk, &c. No. 103,407; Apr. 6; Gaz. vol. 213; p. 351.
- Auto City Brewing Company, Detroit, Mich. Beer. No. 107,510; Dec. 7; Gaz. vol. 221; p. 346.
- Auto-Gas Oil Company, St. Paul, Minn. Preparations for treating hydrocarbon fuels for internal-combustion engines. No. 102,022; Jan. 26; Gaz. vol. 210; p. 1387.
- Auto Specialties Manufacturing Co., San Francisco, Cal., and Chicago, Ill. Automobile top-holders, bow-hinges, and top parts. No. 102,871; Feb. 23; Gaz. vol. 211; p. 1261.
- Automatic Candy Machine Company, Seattle, Wash. Candies. No. 102,023; Jan. 26; Gaz. vol. 210; p. 1387.
- Automatic Flour Company, The, Boston, Mass. Self-rising wheat-flour. No. 102,024; Jan. 26; Gaz. vol. 210; p. 1387.
- Automatic Pencil Sharpener Company, Chicago, Ill. Pencil-sharpeners. No. 102,245; Feb. 2; Gaz. vol. 211; p. 279.
- Automatic Wrench Manufacturing Company, Boston, Mass. Wrenches. No. 106,196; Oct. 19; Gaz. vol. 219; p. 917.
- Automobile Tire Co., Inc., New York, N. Y. Rubber pneumatic outer automobile tires or casings and inner tubes. No. 105,928; Aug. 31; Gaz. vol. 217; p. 1657.
- Avon Sole Company, Avon and Brockton, Mass. Composition soles and heels for shoes. No. 104,925; June 29; Gaz. vol. 215; p. 1493.
- Ayer & McKinney, Philadelphia, Pa. Butter, cheese, eggs, milk, and milk-producing cattle. No. 104,589; June 8; Gaz. vol. 215; p. 661.
- B. Altman & Co., New York, N. Y. Tennis-rackets. No. 105,634; Aug. 10; Gaz. vol. 217; p. 694.
- B. Altman & Co., New York, N. Y. Pearl jewelry. No. 105,635; Aug. 10; Gaz. vol. 217; p. 694.
- B. Shoninger Co., The, New Haven, Conn. Organs and pianos. Nos. 104,267-8; May 11; Gaz. vol. 214; p. 679.
- B. & B. Sash Cord Co., Ansonia, Conn. Sash-cords. No. 105,428; July 27; Gaz. vol. 216; p. 1313.
- B. & C. Sales Co., The, Binghamton, N. Y. Insecticide, disinfectant, and deodorizer. No. 106,197; Oct. 19; Gaz. vol. 219; p. 917.
- B. F. Goodrich Company, The, New York, N. Y. Rain-coats. No. 103,562; Apr. 6; Gaz. vol. 213; p. 356.
- B. F. Goodrich Company, The, New York, N. Y. Rain-coats. No. 104,054; Apr. 27; Gaz. vol. 213; p. 1443.
- B. F. Goodrich Company, The, New York, N. Y. Golf-balls. No. 104,287; May 18; Gaz. vol. 214; p. 1021.
- B. F. Goodrich Company, The, New York, N. Y. Packages of rubber solutions for the repair of rubber tires. No. 104,383; May 25; Gaz. vol. 214; p. 1316.
- B. F. Goodrich Company, The, New York, N. Y. Solid or cushion rubber tires for vehicles. No. 105,264; July 13; Gaz. vol. 216; p. 659.
- B. J. Johnson Soap Company, Milwaukee, Wis. Soap. No. 102,862; Feb. 23; Gaz. vol. 211; p. 1261.
- B. K. Elliott Company, Pittsburgh, Pa. Tracing-cloth. No. 103,343; Mar. 30; Gaz. vol. 212; p. 1685.
- B & R Rubber Company, Brookfield and North Brookfield, Mass. Rubber soles and heels. No. 101,824; Jan. 12; Gaz. vol. 210; p. 712.
- B & R Rubber Company, The, Brookfield and North Brookfield, Mass. Rubber soles and heels. No. 102,556; Feb. 16; Gaz. vol. 211; p. 951.
- Babcock, Fred H., Chicago, Ill. Arts and crafts wooden figures to be used as candlesticks, flower-vases, &c. No. 106,544; Oct. 26; Gaz. vol. 219; p. 1227.
- Babson's Statistical Organization, Incorporated, Wellesley, Mass. Periodical publications. No. 107,234; Nov. 16; Gaz. vol. 220; p. 1038.
- Bachenheimer Bros. & Co., Inc., New York, N. Y. Fly-catchers. No. 103,719; Apr. 13; Gaz. vol. 213; p. 741.
- Backert, John C., Brooklyn, N. Y. Cutting and milling machines. No. 106,139; Oct. 12; Gaz. vol. 219; p. 582.
- Badger Bag & Paper Co., Wausau, Wis., and Chicago, Ill. Paper bags. Nos. 102,492-505; Feb. 9; Gaz. vol. 211; p. 638.

- Badger Bag & Paper Co., Wausau, Wis., and Chicago, Ill. Paper bags. Nos. 104,372-5; May 25; Gaz. vol. 214; p. 1316.
- Badger Bag & Paper Co., Wausau, Wis., and Chicago, Ill. Wrapping-paper. No. 104,524; June 1; Gaz. vol. 215; p. 319.
- Badger Steel Roofing & Corrugating Co., La Crosse, Wis. Certain named construction materials. No. 107,753; Dec. 28; Gaz. vol. 221; p. 1445.
- Baeckman, Ossian, Brussels, Belgium. Plows, harrows, seed-sowing machines, cultivators, &c. No. 106,284; Oct. 19; Gaz. vol. 219; p. 920.
- Baer Chemical Co., Bair, Pa. Salves. No. 105,098; July 6; Gaz. vol. 216; p. 322.
- Baer & Wilde Co., The, Attleboro, Mass. Men's and women's jewelry. No. 104,376; May 25; Gaz. vol. 214; p. 1316.
- Bailey, Benjamin F., New York, N. Y. Cotton, linen, silk, and woolen piece goods. No. 106,545; Oct. 26; Gaz. vol. 219; p. 1227.
- Bailey, Charles J., Boston, Mass. Heels and soles for boots and shoes, wholly or in part of rubber. No. 105,453; July 27; Gaz. vol. 216; p. 1313.
- Bako Co., The, Oklahoma, Okla. Preparation for the treatment of the tobacco habit. No. 104,246; May 11; Gaz. vol. 214; p. 678.
- Balassa, Cornelius C., New York, N. Y. Safety fuse plugs or cartridges. No. 101,724; Jan. 12; Gaz. vol. 210; p. 709.
- Balassa, Cornelius C., New York, N. Y. Safety fuse-plugs and cartridges. No. 104,525; June 1; Gaz. vol. 215; p. 319.
- Baldacci, Farmacia, Pisa, Italy. Remedy for certain named diseases. No. 101,899; Jan. 19; Gaz. vol. 210; p. 1059.
- Baldwin, David W., Seattle, Wash. Laxative remedies. No. 101,825; Jan. 12; Gaz. vol. 210; p. 712.
- Baldwin, Frederic E., New York, N. Y. Acetylene-lamps. No. 107,044; Nov. 9; Gaz. vol. 220; p. 672.
- Baldwin Refrigerator Co., The, Burlington, Vt. Refrigerators. No. 102,356; Feb. 9; Gaz. vol. 211; p. 634.
- Balistricky, Meyer, Philadelphia, Pa. Cigars. No. 107,308; Nov. 23; Gaz. vol. 220; p. 1367.
- Ball, Isaac W., Sharon, Okla. Blank books and stationery used in keeping accounts. No. 103,042; Mar. 16; Gaz. vol. 212; p. 1050.
- Ball, James, Detroit, Mich. Material for repairing pneumatic tires. No. 105,509; Aug. 3; Gaz. vol. 217; p. 335.
- Baltimore Gas Appliance & Mfg. Co., Baltimore, Md. Certain named heating and lighting apparatus and attachments therefor. No. 102,595; Feb. 16; Gaz. vol. 211; p. 952.
- Baltimore Optical Company, Baltimore, Md. Eyeglass-lenses. No. 106,394; Oct. 19; Gaz. vol. 219; p. 923.
- Baltimore Roofing & Asbestos Mfg. Co., Asbestos, Md. Certain named construction materials. No. 107,143; Nov. 16; Gaz. vol. 220; p. 1035.
- Bancroft, George A., Natick, Mass. Carbonated non-alcoholic beverages. No. 104,526; June 1; Gaz. vol. 215; p. 319.
- Barbara Fritchle Shops, Chicago, Ill. Candv. No. 107,438; Nov. 30; Gaz. vol. 220; p. 1715.
- Barbaressos Bros., Piraeus, Greece. Cornices and bristles. No. 104,856; June 22; Gaz. vol. 215; p. 1258.
- Barbour Chemical Works, San Francisco, Cal. Barium compounds. No. 104,857; June 22; Gaz. vol. 215; p. 1258.
- Barclay & Barclay, New York, N. Y. Certain pharmaceutical preparations for toilet purposes and medicinal preparation for treating certain ailments. No. 103,640; Apr. 13; Gaz. vol. 213; p. 739.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Toilet, medicinal, and shaving soaps. No. 104,412; May 25; Gaz. vol. 214; p. 1317.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Hair-tonic. No. 104,436; June 1; Gaz. vol. 215; p. 317.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Hair tonic and dyes, face-cream, liniments, &c. No. 104,437; June 1; Gaz. vol. 215; p. 317.
- Barclay, Gaylord A., Newark, N. J. Corsets, corset-waists, brassieres, bust-confiners, &c. No. 103,938; Apr. 20; Gaz. vol. 213; p. 1113.
- Barco Brass & Joint Co., Chicago, Ill. Horns, whistles, chimes, &c. No. 102,596; Feb. 16; Gaz. vol. 211; p. 952.
- Bardeheuer Hygienic Underwear Co., New York, N. Y. Linen-mesh underwear. No. 105,523; Aug. 3; Gaz. vol. 217; p. 335.
- Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Condition-powder and medicines for treating certain named afflictions. No. 101,615; Jan. 5; Gaz. vol. 210; p. 393.
- Barkey, Jacob A., New York, N. Y. Moving-picture films. No. 102,668; Feb. 23; Gaz. vol. 211; p. 1255.
- Barkmahn Company, Inc., The, New York, N. Y. Cigarettes. No. 106,198; Oct. 19; Gaz. vol. 219; p. 917.
- Barlow-Moore Tobacco Co., Glasgow, Ky. Twist-tobacco. No. 105,805; Aug. 17; Gaz. vol. 217; p. 1051.
- Barr, Fred E., Chicago, Ill. Certain named flavoring extracts. No. 103,845; Apr. 20; Gaz. vol. 213; p. 1111.
- Barrett Changer Co., Chicago, Ill. Change-making machines. No. 107,309; Nov. 23; Gaz. vol. 220; p. 1367.
- Barrett, De Milton, Grand Rapids, Mich. Monthly publication. No. 105,776; Aug. 17; Gaz. vol. 217; p. 1051.
- Barrett Manufacturing Company, New York, N. Y. Certain named oil distillates. No. 101,694; Jan. 5; Gaz. vol. 210; p. 395.
- Barrett Manufacturing Company*, New York, N. Y. Creosote-oil and kindred oil distillates of coal-tar. No. 105,333; July 20; Gaz. vol. 216; p. 1007.
- Barrett Manufacturing Company, New York, N. Y. Prepared roofing. Nos. 105,334-5; July 20; Gaz. vol. 216; p. 1007.
- Barrett Manufacturing Company, New York, N. Y. Paste and ready-mixed paints. No. 106,828; Nov. 2; Gaz. vol. 220; p. 343.
- Barrett Manufacturing Company, New York, N. Y. Prepared roofings. No. 106,930; Nov. 9; Gaz. vol. 220; p. 669.
- Barrett Manufacturing Company, New York, N. Y. Prepared roofings, tarred felts, and non-metallic sheathings. No. 107,703; Dec. 21; Gaz. vol. 221; p. 1036.
- Barrie, Caswell, New York, N. Y. Soaps. No. 102,326; Feb. 9; Gaz. vol. 211; p. 633.
- Barron County Canning Co., Chetek, Wis. Canned sweet corn and peas. No. 106,546; Oct. 26; Gaz. vol. 219; p. 1227.
- Barron County Canning Co., Chetek, Wis. Canned sweet corn and peas. No. 106,931; Nov. 9; Gaz. vol. 220; p. 669.
- Barron, Lizzie S., Baltimore, Md. Liver-pills. No. 104,700; June 15; Gaz. vol. 215; p. 971.
- Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle washing, soaking, and brushing machines and conveying apparatus. No. 105,181; July 13; Gaz. vol. 216; p. 657.
- Barsa & Bro., A., New York, N. Y. Negligées for women. No. 106,395; Oct. 19; Gaz. vol. 219; p. 923.
- Barse & Hopkins, New York, N. Y. Calendar and collection of mottoes. No. 103,408; Apr. 6; Gaz. vol. 213; p. 351.
- Barse & Hopkins, New York, N. Y. Series of books. No. 104,359; May 25; Gaz. vol. 214; p. 1315.
- Bartels Brewing Company, Edwardsville, Pa. Beer. No. 102,025; Jan. 26; Gaz. vol. 210; p. 1387.
- Bartenfeld, Charles F., Lorain, Ohio. Laundry and toilet soap. No. 102,957; Mar. 9; Gaz. vol. 212; p. 685.
- Barthels Manufacturing Co., New York and Brooklyn, N. Y. Shoe-lacings. Nos. 105,777-8; Aug. 17; Gaz. vol. 217; p. 1051.
- Bartlett-Tuell Co., Tacoma, Wash. Calf-meal. No. 105,929; Aug. 31; Gaz. vol. 217; p. 1657.
- Barva Manufacturing Co., Inc., New Market township, Middlesex county, N. J. Barium and sodium products and compounds. No. 107,235; Nov. 16; Gaz. vol. 220; p. 1035.
- Bashwitz Bros. & Co., New York, N. Y. Coats, trousers, and waistcoats. No. 101,901; Jan. 19; Gaz. vol. 210; p. 1059.
- Basler Machinery Co., The, Lynn, Mass. Leather treated with a tempering solution. No. 102,026; Jan. 26; Gaz. vol. 210; p. 1387.
- Basler Machinery Company, The, Lynn, Mass. Leather flexing, braking, and tempering machines and parts. No. 106,140; Oct. 12; Gaz. vol. 219; p. 582.
- Bass, Thomas O., Muskogee, Okla. Remedies for colds and coughs. No. 107,539; Dec. 7; Gaz. vol. 221; p. 347.
- Bassett, Gertrude S., Philadelphia, Pa. Suits, coats, skirts, shirts, &c. No. 106,730; Oct. 26; Gaz. vol. 219; p. 1232.
- Bates & Son, C. J., Chester, Conn. Certain named manicure articles. No. 102,506; Feb. 9; Gaz. vol. 211; p. 638.
- Batschari Cigarettenfabrik G. m. b. H., A., Baden-Baden, Germany. Cigarettes. No. 107,540; Dec. 7; Gaz. vol. 221; p. 347.
- Batson & Roberts, Memphis, Tex. Preparation for treatment of cancer. No. 102,246; Feb. 2; Gaz. vol. 211; p. 279.
- Battaglia, Antonio, Glendale, N. Y. Dandruff remedy. No. 105,505; July 27; Gaz. vol. 216; p. 1315.
- Baudendistel & Son, V., West New York, N. J. Liniments, salves, and herb decoctions. No. 103,146; Mar. 16; Gaz. vol. 212; p. 1053.
- Baughman, Leo M., Los Angeles, Cal. Antiseptic mouth-wash. No. 105,949; Aug. 31; Gaz. vol. 217; p. 1657.
- Baumgarten & Co., Baltimore, Md. Stencils. No. 104,760; June 15; Gaz. vol. 215; p. 973.
- Bausch & Lomb Optical Co., Rochester, N. Y. Projection apparatus. No. 102,507; Feb. 9; Gaz. vol. 211; p. 638.
- Bavarian Brewing Company, Wilmington, Del. Malt beverages. No. 104,409; May 25; Gaz. vol. 214; p. 1317.
- Baxter & Bro., H. C., Brunswick, Me. Canned corn and succotash. No. 102,781; Feb. 23; Gaz. vol. 211; p. 1258.
- Baxter & Bro., H. C., Brunswick, Me. Canned corn, succotash, and Lima beans. No. 102,933; Mar. 2; Gaz. vol. 212; p. 324.
- Baxter & Bro., H. C., Brunswick, Me. Canned corn and succotash. No. 103,216; Mar. 23; Gaz. vol. 212; p. 1353.
- Bay State Jewelry and Silversmiths Co., Attleboro, Mass. Certain named silver novelties. No. 104,012; Apr. 27; Gaz. vol. 213; p. 1441.

Alphabetical list of registrants of trade-marks—Continued.

- Bay State Milling Co., Winona, Minn. Wheat-flour. No. 102,247; Feb. 2; Gaz. vol. 211; p. 279.
- Bay State Saw & Tool Mfg. Co., Boston, Mass. Hack-saws. No. 105,779; Aug. 17; Gaz. vol. 217; p. 1051.
- Bayer Company, Inc., The, New York, N. Y. Galactagogue. No. 101,762; Jan. 12; Gaz. vol. 210; p. 710.
- Bayer Company, Inc., New York, N. Y. Substitute for the iodids. No. 105,479; July 27; Gaz. vol. 216; p. 1314.
- Bayer Company, Inc., The, New York, N. Y. Remedy for rheumatic affections and neuralgias. No. 105,685; Aug. 10; Gaz. vol. 217; p. 696.
- Bayer Company, Inc., The, New York, N. Y. Sedative. No. 106,199; Oct. 19; Gaz. vol. 219; p. 917.
- Bayer Company, Inc., The, New York, N. Y. Antirheumatic. No. 106,200; Oct. 19; Gaz. vol. 219; p. 917.
- Bayer Company, Inc., The, New York, N. Y. Purgative. No. 106,201; Oct. 19; Gaz. vol. 219; p. 917.
- Bayer Company, Inc., The, New York, N. Y. Sedative and hypnotic. No. 106,202; Oct. 19; Gaz. vol. 219; p. 917.
- Bayer Company, Inc., The, New York, N. Y. Antigonorrheic and astringent medical substance. No. 106,285; Oct. 19; Gaz. vol. 219; p. 920.
- Bayer Company, Inc., The, New York, N. Y. Fungicide for cereals. No. 106,547; Oct. 26; Gaz. vol. 219; p. 1227.
- Bayer Company, Inc., New York, N. Y. Antipyretic. No. 106,829; Nov. 2; Gaz. vol. 220; p. 343.
- Bayer Company, Inc., The, New York, N. Y. Intestinal astringent. No. 107,144; Nov. 16; Gaz. vol. 220; p. 1035.
- Bayway Chemical Company, Elizabeth, N. J. Liquid protective coating or paint. No. 103,744; Apr. 13; Gaz. vol. 213; p. 742.
- Bayway Chemical Company, Elizabeth, N. J. Disinfectant. No. 103,775; Apr. 13; Gaz. vol. 213; p. 743.
- Beach, James C., M. D., New York, N. Y. Viburnum compound. No. 106,203; Oct. 19; Gaz. vol. 219; p. 917.
- Beacon Falls Rubber Shoe Co., Beacon Falls, Conn. Basket-ball shoes. No. 105,429; July 27; Gaz. vol. 216; p. 1313.
- Bean, Bert J., Wichita Falls, Tex. Coffee and tea. No. 104,590; June 8; Gaz. vol. 215; p. 661.
- Beardslee, Ancy, Columbus, Ohio. Liquid composition for wood-pollsh. No. 105,639; Aug. 10; Gaz. vol. 217; p. 695.
- Bearings Company of America, Jersey City, N. J. Retainers for ball-bearings. Nos. 104,787-8; June 15; Gaz. vol. 215; p. 973.
- Beaumont Macaroni Company, Beaumont, Tex. Macaroni in packages. No. 101,695; Jan. 5; Gaz. vol. 210; p. 395.
- Beaver Clay Manufacturing Company, New Gallilee, Pa. Bricks made of clay. No. 105,641; Aug. 10; Gaz. vol. 217; p. 695.
- Beaver Company, Buffalo, N. Y. Wall-board and building-paper. No. 105,640; Aug. 10; Gaz. vol. 217; p. 695.
- Beck Company, Charles, Philadelphia, Pa. Bond-paper. No. 102,248; Feb. 2; Gaz. vol. 211; p. 279.
- Beck Company, Charles, Philadelphia, Pa. Paper for writing, printing, envelopes, and commercial stationery. No. 102,357; Feb. 9; Gaz. vol. 211; p. 634.
- Beck Company, Charles, Philadelphia, Pa. Certain paper and stationery. No. 107,679; Dec. 21; Gaz. vol. 221; p. 1035.
- Becker, Firm of Carl F. W., Dresden, Germany. Corn remedy. No. 104,701; June 15; Gaz. vol. 215; p. 971.
- Bedell, Walter E., New York, N. Y. Outer suits, cloaks, gowns, waists, &c. No. 105,780; Aug. 17; Gaz. vol. 217; p. 1051.
- Bee Bee Confection Company, The, Dayton, Ohio. Chewing-gum. No. 104,824; June 22; Gaz. vol. 215; p. 1257.
- Beebe Cordage Mfg. Co., Rockaway, N. J. Clothes-lines, sash-cord, horse-ties, factory-banding, and twine. No. 107,704; Dec. 21; Gaz. vol. 221; p. 1036.
- Belersdorf & Co., P., Hamburg, Germany. Surgical and medical plasters. No. 103,776; Apr. 13; Gaz. vol. 213; p. 743.
- Belart Size & Chemical Co., The, Huddersfield, England. Chemical preparation applicable to certain materials for preventing growth thereon of mildew, fungi, or bacilli. No. 101,763; Jan. 12; Gaz. vol. 210; p. 710.
- Belher Trunk & Bag Company, Philadelphia, Pa. Trunks. No. 101,826; Jan. 12; Gaz. vol. 210; p. 712.
- Belgrade Shoe Manufacturing Company, Portland, Me. Boots and shoes. No. 105,454; July 27; Gaz. vol. 216; p. 1313.
- Bell & Lee Drug Co. Inc., Sylvester, Ga. Medicine for treatment of disordered conditions of the female organs. No. 106,830; Nov. 2; Gaz. vol. 220; p. 343.
- Bell, Miles E., Minneapolis, Minn. Vapor, steam, and vacuum heating systems. No. 107,594; Dec. 14; Gaz. vol. 221; p. 731.
- Belle Vernon Mapes Dairy Co., The, Cleveland, Ohio. Glass milk-bottles. No. 103,641; Apr. 13; Gaz. vol. 213; p. 739.
- Belle Vernon Mapes Dairy Co., The, Cleveland, Ohio. Milk and cream. No. 104,297; May 18; Gaz. vol. 214; p. 1621.
- Belleville Chemical Co., The, Belleville, Ill. Deodorizer and disinfectant. No. 106,286; Oct. 19; Gaz. vol. 219; p. 920.
- Bellwill Cotton Mills, Wilmington, N. C. Cloth made from cotton and cotton spun or woven with other materials. No. 107,831; Dec. 28; Gaz. vol. 221; p. 1448.
- Belmont Stable Supply Co., New York, N. Y. Block salt. No. 104,085; Apr. 27; Gaz. vol. 213; p. 1444.
- Bemmels Milling Company, Lisbon, N. D. Pancake-flour. No. 105,930; Aug. 31; Gaz. vol. 217; p. 1657.
- Beneficial Dealing Co., The, Philadelphia, Pa. Writing-tablets. No. 101,616; Jan. 5; Gaz. vol. 210; p. 393.
- Benjamin & Johns, Newark, N. J. Corsets, brassières, underbodices, &c. No. 102,027; Jan. 26; Gaz. vol. 210; p. 1387.
- Benjamin & Johns, Newark, N. J. Corsets, brassières, underbodices, &c. No. 102,358; Feb. 9; Gaz. vol. 211; p. 634.
- Bennett, Ella M., Boston, Mass. Liquid for restoring gray hair to its former color. No. 106,026; Sept. 14; Gaz. vol. 218; p. 600.
- Bennett Mineral and Distilled Water Co., Hutchinson, Kans. Ginger-ale, distilled water, sarsaparilla, and celery. No. 105,386; July 20; Gaz. vol. 216; p. 1009.
- Bennington Hosiery Company, Bennington, Vt. Hosiery and stockings. No. 102,028; Jan. 26; Gaz. vol. 210; p. 1387.
- Benoit, Arthur H., Malden, Mass. Boys' suits and overcoats. No. 102,029; Jan. 26; Gaz. vol. 210; p. 1387.
- Benson, Christian L., Chicago, Ill. Preserved and pickled fish, canned sardines, anchovies, and kippered herring. No. 106,396; Oct. 19; Gaz. vol. 219; p. 923.
- Benton County Growers' Association, Corvallis, Ore. Canned fruits. No. 104,314; May 18; Gaz. vol. 214; p. 1022.
- Benzoni, Edward, Hoboken, N. J. Macaroni, spaghetti, vermicelli, and noodles. No. 107,045; Nov. 9; Gaz. vol. 220; p. 672.
- Berdan & Company, Toledo, Ohio. Certain named foods. No. 101,617; Jan. 5; Gaz. vol. 210; p. 393.
- Berdan and Company, Toledo, Ohio. Cider, ginger-ale, orange and grape juices, &c. No. 105,643; Aug. 10; Gaz. vol. 217; p. 695.
- Berg Bros., New York, N. Y. Snap-fasteners. No. 107,773; Dec. 28; Gaz. vol. 221; p. 1446.
- Bergenstein & Co., Chs., New York, N. Y. Rufflings. No. 104,582; June 1; Gaz. vol. 215; p. 321.
- Bergman, Adolph, Philadelphia, Pa. Knit goods. No. 102,359; Feb. 9; Gaz. vol. 211; p. 634.
- Bergman Knitting Mills, Germantown, Pa. Cardigan jackets and sweater-coats. No. 106,027; Sept. 14; Gaz. vol. 218; p. 600.
- Bergman, Louis. (See Mendel, Julius L., assignor.)
- Berkey and Gay Furniture Company, Grand Rapids, Mich. Certain named furniture. No. 106,548; Oct. 26; Gaz. vol. 219; p. 1227.
- Berkowitz Bros., New York, N. Y. Men's shirts. No. 103,147; Mar. 16; Gaz. vol. 212; p. 1053.
- Berkshire Knitting Mills, Reading, Pa. Hosiery. No. 102,647; Feb. 16; Gaz. vol. 211; p. 953.
- Berlin Mills Company, Berlin, N. H. Vegetable fats. No. 105,415; July 20; Gaz. vol. 216; p. 1010.
- Bernardi, Phillip, Brooklyn, N. Y. Hair tonics and pomade, skin lotion and cosmetic, dentifrices, &c. No. 105,577; Aug. 10; Gaz. vol. 217; p. 693.
- Bernbrock, John B., Quincy, Ill. Vanilla flavoring compound. No. 104,347; May 25; Gaz. vol. 214; p. 1315.
- Bernese Alps Milk Co., Stalden, Switzerland. Milk, milk-cocoa, and milk-chocolate. No. 102,733; Feb. 23; Gaz. vol. 211; p. 1257.
- Berry Brothers, (Inc.), Detroit, Mich. Varnishes. No. 103,552; Apr. 6; Gaz. vol. 213; p. 355.
- Berry Brothers, Detroit, Mich. Varnishes. No. 104,196; May 11; Gaz. vol. 214; p. 677.
- Berry Brothers, Detroit, Mich. Polishes for restoring the finish on varnished-surface work. No. 106,141; Oct. 12; Gaz. vol. 219; p. 582.
- Berry-Hall Company, Burlington, Vt. Tea, pepper, ginger, cinnamon, &c. No. 104,858; June 22; Gaz. vol. 215; p. 1258.
- Berry, Sam A., Louisa, Ky. Remedies for diseases of the throat and lungs. No. 102,597; Feb. 16; Gaz. vol. 211; p. 952.
- Besosa, Adolfo E., New York, N. Y. Kidney-pills. No. 105,524; Aug. 3; Gaz. vol. 217; p. 335.
- Bessey, Albert W., Sunnyvale, Cal. Incubators and brooders. No. 107,237; Nov. 16; Gaz. vol. 220; p. 1038.
- Best-Clymer Manufacturing Company, St. Louis, Mo. Table delicacy containing certain named ingredients. No. 105,510; Aug. 3; Gaz. vol. 217; p. 335.
- Best-Clymer Manufacturing Company, St. Louis, Mo. Sorghum with corn-syrup. No. 105,644; Aug. 10; Gaz. vol. 217; p. 695.
- Best-Clymer Manufacturing Company, St. Louis, Mo. Table-syrup. No. 105,645; Aug. 10; Gaz. vol. 217; p. 695.
- Best & Company, New York, N. Y. Certain named infants' and ladies' clothing. No. 102,704; Feb. 23; Gaz. vol. 211; p. 1256.
- Bestwall Manufacturing Company, Chicago, Ill. Composite board or panel. No. 105,287; July 13; Gaz. vol. 216; p. 660.
- Betts Spring Co., San Francisco, Cal. Leaf-springs for vehicles, &c. No. 101,670; Jan. 5; Gaz. vol. 210; p. 394.

- Betz-Pierce Company, The, Cleveland, Ohio. Certain named cutlery and tools and machinery. No. 101,696; Jan. 5; Gaz. vol. 210; p. 395.
- Betz-Pierce Company, The, Cleveland, Ohio. Steel bars. No. 104,901; June 22; Gaz. vol. 215; p. 1259.
- Betz-Pierce Company, The, Cleveland, Ohio. Steel bars. No. 106,731; Oct. 26; Gaz. vol. 219; p. 1232.
- Bianchi, Cesare, New York, N. Y. Candy. No. 106,732; Oct. 26; Gaz. vol. 219; p. 1232.
- Blanchini, Frier, Lyon, France. Piece goods of silk, wool, linen, and cotton. Nos. 106,549-51; Oct. 26; Gaz. vol. 219; p. 1227.
- Blas Narrow Fabric Company, The, Bridgeport, Conn., and New York, N. Y. Bias-seam tape, tapes, and bias bindings. Nos. 101,903-5; Jan. 19; Gaz. vol. 210; p. 1059.
- Bibb Manufacturing Company, Macon, Ga. Hosiery. No. 107,832; Dec. 28; Gaz. vol. 221; p. 1448.
- Bidack, William C., Lancaster, Pa. Chewing-gum. No. 102,705; Feb. 23; Gaz. vol. 211; p. 1256.
- Bielefeld & Spahn, New York, N. Y. Leather and canvas shoes. No. 103,884; Apr. 20; Gaz. vol. 213; p. 1112.
- Big Six Co., Wichita, Kans. External application for relief of certain named affections. No. 107,595; Dec. 14; Gaz. vol. 221; p. 731.
- Bijur Motor Lighting Company, Hoboken, N. J. Electrical apparatus for vehicle lighting and starting. No. 104,702; June 15; Gaz. vol. 215; p. 971.
- Billingsley, Joseph N., Billingsley, Ala. Fertilizer. No. 107,145; Nov. 16; Gaz. vol. 220; p. 1035.
- Billups, Cecil, Norfolk, Va. Plows, moldboards, landsides, points, &c. Nos. 103,805-6; Apr. 13; Gaz. vol. 213; p. 744.
- Billups, Cecil, Norfolk, Va. Plows, moldboards, landsides, points, and plow-beams. No. 103,840; Apr. 13; Gaz. vol. 213; p. 745.
- Billups, Cecil, Norfolk, Va. Plows, moldboards, landsides, plow points and beams, &c. No. 105,525; Aug. 3; Gaz. vol. 217; p. 335.
- Billups, Cecil, Norfolk, Va. Plows, moldboards, landsides, plow-points, &c. No. 105,970; Sept. 7; Gaz. vol. 218; p. 317.
- Binder Company, Inc., The, New York, N. Y. Certain named construction materials. No. 103,338; Mar. 30; Gaz. vol. 212; p. 1685.
- Binger, Arnold, New York, N. Y. Lettering-blocks for use by sign-painters and draftsmen. No. 102,624; Feb. 16; Gaz. vol. 211; p. 953.
- Binney, Edwin, New York, N. Y. Fresh and preserved fruits. No. 105,247; July 13; Gaz. vol. 216; p. 659.
- Binney & Smith Company, East Orange, N. J., and New York, N. Y. Crayons. No. 104,814; June 15; Gaz. vol. 215; p. 974.
- Binney & Smith Company, East Orange, N. J., and New York, N. Y. Glue. No. 107,439; Nov. 30; Gaz. vol. 220; p. 1715.
- Binswanger, Jacob, Chicago, Ill. Drawers, gowns, slips, and sleeping-garments. No. 105,806; Aug. 17; Gaz. vol. 217; p. 1052.
- Bird Archer Company, The, New York, N. Y. Substances for the prevention of incrustation in boilers. No. 106,028; Sept. 14; Gaz. vol. 218; p. 600.
- Birdsey-Somers Company, New York, N. Y. Ladies' and misses' corset-waists. No. 107,833; Dec. 28; Gaz. vol. 221; p. 1448.
- Birmingham Metal Products Co., Birmingham, Ala. Sheet-metal culverts. No. 106,932; Nov. 9; Gaz. vol. 220; p. 669.
- Birmingham Metal Products Co., Birmingham, Ala. Sheet metal. No. 107,774; Dec. 28; Gaz. vol. 221; p. 1446.
- Bischof, Sterne & Stein, Cincinnati Ohio. Coats and suits. No. 103,370; Mar. 30; Gaz. vol. 212; p. 1686.
- Bishop Babcock Becker Co., The, Cleveland, Ohio. Metallic valves. No. 105,493; July 27; Gaz. vol. 216; p. 1315.
- Bishop & Company, Los Angeles, Cal. Preserves made from figs. No. 102,325; Feb. 9; Gaz. vol. 211; p. 633.
- Bishop & Company, Los Angeles, Cal. Chewing-gum. No. 103,885; Apr. 20; Gaz. vol. 213; p. 1112.
- Bishop & Company, Los Angeles, Cal. Ginger-snaps. No. 105,036; July 6; Gaz. vol. 216; p. 321.
- Bishop & Company, Los Angeles, Cal. Ginger-snaps. No. 105,526; Aug. 3; Gaz. vol. 217; p. 335.
- Bishop Gutta-Percha Company, New York, N. Y. Sheets or strips of gutta-percha of tissue-like dimension. No. 106,287; Oct. 19; Gaz. vol. 219; p. 920.
- Bisleri, Felice, New York, N. Y. Tonic-bitters. No. 104,968; June 29; Gaz. vol. 215; p. 1494.
- Bison Fibre Company, Inc., Buffalo, N. Y. Fiber chair-seats. No. 104,488; June 1; Gaz. vol. 215; p. 317.
- Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweepers. Nos. 102,736-42; Feb. 23; Gaz. vol. 211; p. 1257.
- Bittel-Leftwich Tire Service Co., St. Louis, Mo. Inner tubes for pneumatic tires. No. 104,859; June 22; Gaz. vol. 215; p. 1258.
- Bixler, Miles F., Cleveland, Ohio. Certain named articles of solid gold and gold filled. No. 102,887; Mar. 2; Gaz. vol. 212; p. 323.
- Blz-Nes Drug Company, Sullivan, Ill. Ointments. No. 106,552; Oct. 26; Gaz. vol. 219; p. 1227.
- Black Dazzle Co., Philadelphia, Pa. Liquid for painting metallic surfaces, acting as a preservative therefor and preventive of rust thereon. No. 105,182; July 13; Gaz. vol. 216; p. 657.
- Black & Decker Manufacturing Company, The, Baltimore, Md. Electric air-compressors. No. 107,731; Dec. 28; Gaz. vol. 221; p. 1445.
- Black Diamond Manufacturing Co., Cincinnati, Ohio. Dry and ready-mixed paints, oil-colors, &c. No. 107,226; Nov. 16; Gaz. vol. 220; p. 1038.
- Black Diamond Products Company, Fairmont and Watson, W. Va. Ginger-ale, pop, and carbonated waters. No. 103,409; Apr. 6; Gaz. vol. 213; p. 351.
- Black Diamond Spad Co., Richmond, Va. Spad, the device employed by mine engineers. No. 104,368; May 25; Gaz. vol. 214; p. 1315.
- Black Hawk Coffee & Spice Company, Waterloo, Iowa. Coffee. No. 106,553; Oct. 26; Gaz. vol. 219; p. 1227.
- Black Horn Sales Co., Scranton, Pa. Chamoloe face-cloths. No. 106,831; Nov. 2; Gaz. vol. 220; p. 343.
- Black, William H., New York, N. Y. Hair-tonic. No. 102,914; Mar. 2; Gaz. vol. 212; p. 324.
- Black, William H., New York, N. Y. Laxative. No. 104,761; June 15; Gaz. vol. 215; p. 973.
- Black, William H., New York, N. Y. Hair-tonic and eczema. No. 105,009; June 29; Gaz. vol. 215; p. 1495.
- Blackie, Robert G., Halifax, Nova Scotia, Canada. Dentifrices and mouth-wash. No. 104,198; May 11; Gaz. vol. 214; p. 677.
- Blackman & Griffin Co., Ogden, Utah. Seeds. No. 102,872; Feb. 23; Gaz. vol. 211; p. 1261.
- Blackman Stock Remedy Co., Chattanooga, Tenn. Preparation for use as a tonic for live stock. No. 101,908; Jan. 19; Gaz. vol. 210; p. 1059.
- Blacknall, Oscar W., Kittrell, N. C. Strawberry-plants. No. 101,907; Jan. 19; Gaz. vol. 210; p. 1059.
- Blackstone Institute, Chicago, Ill. Printed books, booklets, pamphlets, &c. No. 104,860; June 22; Gaz. vol. 215; p. 1258.
- Blair Milling Company, The, Atchison, Kans. Self-rising pancake-flour. No. 103,339; Mar. 30; Gaz. vol. 212; p. 1685.
- Blalze, John W., Robstown, Tex. Liniment for animals and poultry. No. 106,142; Oct. 12; Gaz. vol. 219; p. 582.
- Blake Milling Company, The, Edwardsville, Ill. Wheat-flour. No. 107,596; Dec. 14; Gaz. vol. 221; p. 731.
- Blake, Moffitt & Towne, San Francisco, Cal. Bond and writing paper. No. 103,410; Apr. 6; Gaz. vol. 213; p. 351.
- Blake Oil Co., Liberal, Kans. Lubricating-oil particularly adapted for automobiles. No. 104,762; June 15; Gaz. vol. 215; p. 973.
- Blakeney, Catherine, Los Angeles, Cal. Sharp-pointed implements for treating facial blemishes. No. 102,363; Feb. 9; Gaz. vol. 211; p. 634.
- Blank & Gottshall, Sunbury, Pa. Corn-flour. No. 103,041; Mar. 16; Gaz. vol. 212; p. 1050.
- Blanke-Wenneker Candy Co., St. Louis, Mo. Caramels. No. 104,247; May 11; Gaz. vol. 214; p. 678.
- Bloecker & Simons, New York, N. Y. Coffee. No. 102,958; Mar. 9; Gaz. vol. 212; p. 685.
- Bleichrode, Jacob B., New York, N. Y. Coffee-percolators. No. 104,527; June 1; Gaz. vol. 215; p. 319.
- Bliss, Ellis B., New Brunswick, N. J. Remedies for dental abscesses. No. 102,625; Feb. 16; Gaz. vol. 211; p. 953.
- Bliss & Van Auker Lumber Co., Saginaw, Mich. Maple flooring. No. 104,591; June 8; Gaz. vol. 215; p. 661.
- Block & Co. of New York, Inc., New York, N. Y. Shaving cream, powder, paste, lotion, and soaps. No. 102,873; Feb. 23; Gaz. vol. 211; p. 1261.
- Blotton Cahaba Coal Co., Piper, Ala. Coal. No. 104,439; June 1; Gaz. vol. 215; p. 317.
- Blogg & Littauer, New York, N. Y. Ladies' outer garments. No. 106,397; Oct. 19; Gaz. vol. 219; p. 923.
- Bloom & Godley Co., Trenton, N. J. Cotton-felt mattresses. No. 104,556; June 1; Gaz. vol. 215; p. 320.
- Bloom & Godley Co., Trenton, N. J. Mattresses. No. 105,310; July 20; Gaz. vol. 216; p. 1007.
- Bloomingdale Bros., New York, N. Y. Certain named bristle goods. No. 103,089; Mar. 16; Gaz. vol. 212; p. 1052.
- Bloomingdale Bros., New York, N. Y. Red and white wines. No. 103,148; Mar. 16; Gaz. vol. 212; p. 1053.
- Bloomingdale Bros., New York, N. Y. Petticoats and women's and misses' coats and suits. No. 103,149; Mar. 16; Gaz. vol. 212; p. 1053.
- Bloomingdale Bros., New York, N. Y. Teas, coffees, cocoa, and salad-oil. No. 106,398; Oct. 19; Gaz. vol. 219; p. 923.
- Bloomingdale Bros., New York, N. Y. Hosiery. No. 106,399; Oct. 19; Gaz. vol. 219; p. 923.
- Bloomingdale Bros., New York, N. Y. Mouth-washes. No. 107,465; Dec. 7; Gaz. vol. 221; p. 345.
- Bloomingdale Rubber Company, Butler, N. J., and New York, N. Y. Reclaimed rubber. No. 106,288; Oct. 19; Gaz. vol. 219; p. 920.
- Blue Seal Ice Cream Co., Memphis, Tenn. Ice-cream and ice-cream cones. No. 101,908; Jan. 19; Gaz. vol. 210; p. 1059.
- Blue Valley Creamery Company, Chicago, Ill. Butter. No. 103,747; Apr. 13; Gaz. vol. 213; p. 742.

Alphabetical list of registrants of trade-marks—Continued.

- Bluetts Company, The, Madison, Wis. Certain medicine used for certain named diseases and suitable for veterinary medicine. No. 103,412; Apr. 6; Gaz. vol. 213; p. 351.
- Boch, Louise H., Chicago, Ill. Fancy-designed safety-pocket. No. 103,310; Mar. 30; Gaz. vol. 212; p. 1684.
- Bockar, John J., New York, N. Y. Remedy for rheumatism in powder, liquid, &c., forms. No. 104,557; June 1; Gaz. vol. 215; p. 320.
- Bohlender, Jno., Cincinnati, Ohio. Iodin, vinum, and unguentum Iodin, &c. No. 107,411; Nov. 23; Gaz. vol. 220; p. 1370.
- Böhm, Firm of F. A., Unterschensberg, Germany. Mouth-organs, accordions, and concertinas. No. 102,364; Feb. 9; Gaz. vol. 211; p. 634.
- Boller Room Improvement Co., Chicago, Ill. Smoke-indicators. No. 106,933; Nov. 9; Gaz. vol. 220; p. 669.
- Bolvin, Joseph E., Montreal, Canada. Dyspepsia remedy. No. 102,782; Feb. 23; Gaz. vol. 211; p. 1258.
- Böker & Co., Heilnr., Solingen, Germany. Non-precious-metal table and kitchen cutlery. No. 105,578; Aug. 10; Gaz. vol. 217; p. 693.
- Böker & Co., Heilnr., Solingen, Germany. Certain named manure implements. No. 106,407; Oct. 19; Gaz. vol. 219; p. 923.
- Böker & Co., Heilnr., Solingen, Germany. Certain named non-precious-metal cutlery. No. 106,934; Nov. 9; Gaz. vol. 220; p. 669.
- Bolgar, Erwin, Cleveland, Ohio. Candy laxatives. No. 104,703; June 15; Gaz. vol. 215; p. 971.
- Bond Foundry & Machine Co., Manheim, Pa. Bearings, collars, couplings, hangers, pulleys, pedestals, and stands for shafting. No. 102,249; Feb. 2; Gaz. vol. 211; p. 279.
- Bone, H. B., Winder, Ga. Medicine for rheumatism, dropsy, eczema, neuralgia, and the blood. No. 105,387; July 20; Gaz. vol. 216; p. 1009.
- Bonney-Vehslage Tool Co., Newark, N. J., and New York, N. Y. Conductor and ticket punches. No. 101,764; Jan. 12; Gaz. vol. 210; p. 710.
- Bonney Vise & Tool Works, Inc., Philadelphia and Allentown, Pa., and New York, N. Y. Vises and lathe-dogs. No. 104,199; May 11; Gaz. vol. 214; p. 677.
- Bonney Vise & Tool Works, Inc., Philadelphia and Allentown, Pa., and New York, N. Y. Screw-wrenches and vises. No. 104,592; June 8; Gaz. vol. 215; p. 661.
- Bonney Vise & Tool Works, Inc., Philadelphia and Allentown, Pa., and New York, N. Y. Combination-tool. No. 105,480; July 27; Gaz. vol. 216; p. 1314.
- Bonney Vise & Tool Works, Inc., Philadelphia and Allentown, Pa., and New York, N. Y. Wrenches. No. 105,781; Aug. 17; Gaz. vol. 217; p. 1051.
- Bonney Vise & Tool Works, Inc., Philadelphia and Allentown, Pa., and New York, N. Y. Wrenches. No. 106,400; Oct. 19; Gaz. vol. 219; p. 923.
- Bonwit, Teller & Co. (See Macdonald, Florence R., assignor.)
- Bonwit, Teller & Co., New York, N. Y. Certain named female apparel. No. 107,597; Dec. 14; Gaz. vol. 221; p. 731.
- Booklovers Sales Company, Inc., New York, N. Y. Games. No. 105,431; July 27; Gaz. vol. 216; p. 1313.
- Boone Brick Tile and Paving Company, Boone, Iowa. Brick and construction tile. No. 104,284; May 18; Gaz. vol. 214; p. 1021.
- Boone, Omer E., Sac City, Iowa. Exercising-machine. No. 102,031; Jan. 26; Gaz. vol. 210; p. 1387.
- Boonton Rubber Manufacturing Company, Boonton, N. J. Distributor-insulators for magnets for ignition systems. No. 103,580; Apr. 6; Gaz. vol. 213; p. 356.
- Boorum & Pease Co., New York, N. Y. Writing-paper for manufacture of blank and loose-leaf books. No. 102,032; Jan. 26; Gaz. vol. 210; p. 1387.
- Boot and Shoe Recorder Publishing Company, Boston, Mass. Monthly shoe-trade publication. No. 104,315; May 18; Gaz. vol. 214; p. 1022.
- Booth, Burton S., Troy, N. Y. Fly-catching devices. No. 105,099; July 6; Gaz. vol. 216; p. 323.
- Booth's Distillery Limited, London, England. Gin. No. 103,413; Apr. 6; Gaz. vol. 213; p. 351.
- Boott Mills, Lowell, Mass. Cotton bags. No. 106,401; Oct. 19; Gaz. vol. 219; p. 923.
- Borden Stove Co., Philadelphia, Pa. Wood, coal, gas, oil, and vapor stoves and heaters, steam and hot-water boilers. No. 102,365; Feb. 9; Gaz. vol. 211; p. 634.
- Borden Stove Co., Philadelphia, Pa. Refrigerators. No. 106,734; Oct. 26; Gaz. vol. 219; p. 1232.
- Borden's Condensed Milk Company, New York, N. Y. Condensed milk. Nos. 105,908-9; Aug. 24; Gaz. vol. 217; p. 1337.
- Borden's Condensed Milk Company, Jersey City, N. J., and New York, N. Y. Dried or desiccated milk. No. 106,402; Oct. 19; Gaz. vol. 219; p. 923.
- Borden's Condensed Milk Company, Jersey City, N. J., and New York, N. Y. Milk, cream, and ice-cream. No. 107,310; Nov. 23; Gaz. vol. 220; p. 1367.
- Border Chemical Company, Revere, Mass. Preparation for treatment of diphtheria, sore throat, pneumonia, and la grippe. No. 104,528; June 1; Gaz. vol. 215; p. 319.
- Border Chemical Company, Revere, Mass. Disinfectant, antiseptic, insecticide, and germicide. No. 104,529; June 1; Gaz. vol. 215; p. 320.
- Borgen, Christian, Stavanger, Norway. Preserved sardines and herrings. No. 102,734; Feb. 23; Gaz. vol. 211; p. 1257.
- Borland, Loretta A., Rochester, N. Y. Face-cream. No. 105,833; Aug. 24; Gaz. vol. 217; p. 1335.
- Bortolo Bendin, Inc., Brooklyn, N. Y. Table-oils, particularly olive-oil. No. 106,935; Nov. 9; Gaz. vol. 220; p. 669.
- Bosano, François, Marseille, France. Dentifrices. No. 101,827; Jan. 12; Gaz. vol. 210; p. 712.
- Bosca and Joseph G. Quinn, Jr., Ernest E., New York, N. Y. Preparation for increasing the efficiency of gasoline and preventing the deposit of carbon. No. 106,290; Oct. 19; Gaz. vol. 219; p. 920.
- Bosman & Lohman Co., Norfolk, Va. Peanuts and peanut-butter. No. 105,686; Aug. 10; Gaz. vol. 217; p. 696.
- Boss Manufacturing Company, The, Kewanee, Ill. Gloves. Nos. 103,720-2; Apr. 13; Gaz. vol. 213; p. 741.
- Bossemeyer Bros., Superior, Nebr. Certain named foods. No. 107,148; Nov. 16; Gaz. vol. 220; p. 1035.
- Boston Auto Gage Co., Boston, Mass. Gasolene-gages. No. 104,414; May 25; Gaz. vol. 214; p. 1317.
- Boston Blacking Company, Portland, Me., and Cambridge, Mass. Adhesive and leather cements, milliners' and hatters' glue. No. 107,775; Dec. 28; Gaz. vol. 221; p. 1446.
- Boston Music Company, The, Charlestown, W. Va., and Boston, Mass. Sheet-music and music-books. No. 102,366; Feb. 9; Gaz. vol. 211; p. 634.
- Boston Rubber Shoe Company, Malden and Boston, Mass. Rubber boots and shoes. No. 106,735; Oct. 26; Gaz. vol. 219; p. 1233.
- Boston Woven Hose & Rubber Co., Boston and Cambridge, Mass. Rubber jar-rings and hose. No. 104,789; June 15; Gaz. vol. 215; p. 974.
- Botanical Manufacturing Co., Wilmington, Del., and Philadelphia, Pa. Preparation for the destruction of rats and mice. No. 101,618; Jan. 5; Gaz. vol. 210; p. 593.
- Botanical Manufacturing Co., The, Dover, Del., and Philadelphia, Pa. Preparation to exterminate rodents. No. 103,414; Apr. 6; Gaz. vol. 213; p. 351.
- Botanical Manufacturing Co., Wilmington, Del., and Philadelphia, Pa. Preparation to relieve constipation. No. 103,415; Apr. 6; Gaz. vol. 213; p. 351.
- Botany Worsted Mills, Passaic, N. J. Woven and knitted fabrics of wool, cotton, and silk or mixture of same. No. 106,736; Oct. 26; Gaz. vol. 219; p. 1233.
- Bouchet, Marie-Louise P., Roselle, N. J. Emulsion of pure olive-oil. Nos. 102,598-9; Feb. 16; Gaz. vol. 211; p. 952.
- Bour Company, The, Toledo, Ohio. Tea. No. 102,508; Feb. 9; Gaz. vol. 211; p. 638.
- Bowers Bros., Inc., Richmond, Va. Coffee and chicory. No. 102,367; Feb. 9; Gaz. vol. 211; p. 634.
- Bowers Bros., Inc., Richmond, Va. Coffee. No. 104,345; May 18; Gaz. vol. 214; p. 1023.
- Bowers Rubber Works, San Francisco, Cal. Non-metallic machinery packing. No. 103,150; Mar. 16; Gaz. vol. 212; p. 1053.
- Bowers Rubber Works, San Francisco, Cal. Composite rubber packing for pistons. No. 104,440; June 1; Gaz. vol. 215; p. 317.
- Bowers Rubber Works, San Francisco, Cal. Rubber hose and belting and composite rubber packing for pistons. Nos. 105,950-5; Aug. 31; Gaz. vol. 217; p. 1657.
- Bowker Fertilizer Co., New York, N. Y. Fertilizers. No. 103,372; Mar. 30; Gaz. vol. 212; p. 1686.
- Bowker Fertilizer Co., New York, N. Y. Fertilizers. No. 105,183; July 13; Gaz. vol. 216; p. 657.
- Bowker Fertilizer Co., New York, N. Y. Certain named poultry food and bone-meal for cattle. No. 105,184; July 13; Gaz. vol. 216; p. 657.
- Boy Scouts of America, New York, N. Y. Printed books and periodicals. No. 105,407; July 20; Gaz. vol. 216; p. 1010.
- Boy Scouts of America, Washington, D. C., and New York, N. Y. Monthly magazine. No. 106,403; Oct. 19; Gaz. vol. 219; p. 923.
- Boyer & Co., Philadelphia, Pa. Liquid and paste leather-polish. No. 102,888; Mar. 2; Gaz. vol. 212; p. 323.
- Boyer & Co., Philadelphia, Pa. Liquid and paste polish and oil coloring for leather. No. 102,889; Mar. 2; Gaz. vol. 212; p. 323.
- Bradley Pulverizer Co., Portland, Me., and Boston, Mass. Grinding-mills. No. 103,045; Mar. 16; Gaz. vol. 212; p. 1050.
- Braender Rubber & Tire Co., Rutherford, N. J. Inner tubes. No. 102,250; Feb. 2; Gaz. vol. 211; p. 279.
- Bragger, Lucy F., Los Angeles, Cal. Flavoring compounds for foods. No. 102,934; Mar. 2; Gaz. vol. 212; p. 324.
- Brainerd and Armstrong Company, The, New London, Conn. Sewing-silk, buttonhole and machine twists. No. 103,553; Apr. 6; Gaz. vol. 213; p. 355.
- Brainerd and Armstrong Company, New London, Conn. Embroidery silk and twist. No. 103,554; Apr. 6; Gaz. vol. 213; p. 355.
- Brainerd and Armstrong Company, New London, Conn. Certain silk dyed so color will not change when washed, sewing and knitting silk. No. 103,642; Apr. 13; Gaz. vol. 213; p. 739.

- Brainerd and Armstrong Company, The, New London, Conn. Machine-twist, knitting, crochet, and embroidery silks. No. 103,643; Apr. 13; Gaz. vol. 213; p. 739.
- Brand Manufacturing Corporation, The, Brooklyn, N. Y. Vacuum-cleaners. No. 107,238; Nov. 16; Gaz. vol. 220; p. 1038.
- Brandle & Smith Co., Philadelphia, Pa. Candy. No. 104,705; June 15; Gaz. vol. 215; p. 971.
- Branson, William, Bloomington, Ill. Liquid and powder for the destruction of insects. No. 105,993; Sept. 14; Gaz. vol. 218; p. 599.
- Brandriss, Anna, New York, N. Y. Liquid cement. No. 103,195; Mar. 23; Gaz. vol. 212; p. 1353.
- Brasel, Barney, Drumright, Okla. Remedy for the liver. No. 103,020; Mar. 16; Gaz. vol. 212; p. 1049.
- Brechet & Richter Company, Minneapolis, Minn. Non-alcoholic carbonated beverages and syrups for making same. No. 107,599; Dec. 14; Gaz. vol. 221; p. 732.
- Brett, William J., New York, N. Y. Canteens. No. 104,902; June 22; Gaz. vol. 215; p. 1259.
- Brett, William J., New York, N. Y. Hair-wavers. No. 105,910; Aug. 24; Gaz. vol. 217; p. 1337.
- Brewer Belt and Buckle Company, Incorporated, New York, N. Y. Belts for personal wear. No. 102,368; Feb. 9; Gaz. vol. 211; p. 634.
- Bridgeport Wood Finishing Co., The, New Milford, Conn. Certain named paints and painters' materials. No. 104,299; May 18; Gaz. vol. 214; p. 1021.
- Bridgman Bros. Co., Philadelphia, Pa. Unions. No. 106,555; Oct. 26; Gaz. vol. 219; p. 1227.
- Briede & Rogovsky, Chicago, Ill. Certain named men's clothing. No. 104,166; May 4; Gaz. vol. 214; p. 340.
- Briggs & Stratton Co., Milwaukee, Wis. Certain named electrical apparatus and supplies. No. 102,033; Jan. 26; Gaz. vol. 210; p. 1388.
- Bright Star Battery Co., New York, N. Y. Electric batteries. Nos. 105,037-8; July 6; Gaz. vol. 216; p. 321.
- Brinton, Robert F., West Chester, Pa. Apple-butter. No. 104,285; May 18; Gaz. vol. 214; p. 1021.
- Briscoe, Daniel, Jr., Knoxville, Tenn. Compound for cleaning wire screens and metal surfaces. No. 107,466; Dec. 7; Gaz. vol. 221; p. 345.
- Bristol Company, Waterbury, Conn. Screws. No. 103,846; Apr. 20; Gaz. vol. 213; p. 1111.
- Bristol-Myers Company, New York, N. Y. Digestants and medicinal preparations for dyspepsia, indigestion, &c. No. 104,706; June 15; Gaz. vol. 215; p. 971.
- Bristol-Myers Company, New York, N. Y. Tooth-paste. No. 105,039; July 6; Gaz. vol. 216; p. 321.
- Bristol-Myers Company, New York, N. Y. Alkaline antiseptic preparation. No. 105,416; July 20; Gaz. vol. 216; p. 1010.
- Bristol-Myers Company, New York, N. Y. Soap. No. 105,646; Aug. 10; Gaz. vol. 217; p. 695.
- British American Manufacturing Company, Springdale, Conn. Waterproofed fabric. No. 104,790; June 15; Gaz. vol. 215; p. 974.
- British American Manufacturing Company, Springdale, Conn. Waterproof fabric. No. 105,100; July 6; Gaz. vol. 216; p. 323.
- Broberg, Manfred, Jamaica, N. Y. Chiropractic adjustment-table. No. 107,569; Dec. 14; Gaz. vol. 221; p. 731.
- Brodigan, Joseph F., New York, N. Y. Massage instruments. No. 106,404; Oct. 19; Gaz. vol. 219; p. 923.
- Brooker & Co., Chas., Owensboro, Ky. Cornmeal. No. 102,783; Feb. 23; Gaz. vol. 211; p. 1258.
- Broma-Mist Co., Boston, Mass. Remedy for certain named ailments. No. 102,034; Jan. 26; Gaz. vol. 210; p. 1388.
- Bromo Remedy Co., The, Chicago, Ill. Foot-bath tablets, medical preparations, &c. No. 105,782; Aug. 17; Gaz. vol. 217; p. 1051.
- Bromo Remedy Co., The, Chicago, Ill. Foot-bath preparations. No. 107,412; Nov. 23; Gaz. vol. 220; p. 1370.
- Brooke & Sons, C. M., New York, N. Y. Liquid preparation of coffee with chicory. No. 102,035; Jan. 26; Gaz. vol. 210; p. 1388.
- Brooklyn Shield & Rubber Co., New York, N. Y. Dress-shields. No. 103,151; Mar. 16; Gaz. vol. 212; p. 1053.
- Brooks Barley Co., Boston, Mass. Prepared barley, a food for infants. No. 105,579; Aug. 10; Gaz. vol. 217; p. 693.
- Brooks Brothers, New York, N. Y. Certain named boys' and men's clothing. No. 103,889; Apr. 20; Gaz. vol. 213; p. 1112.
- Brooks Brothers, New York, N. Y. Boys' and men's clothing. No. 103,992; Apr. 27; Gaz. vol. 213; p. 1441.
- Brown Brothers, Grantsburg, Wis. Ferruginous clay. No. 106,405; Oct. 19; Gaz. vol. 219; p. 923.
- Brown, Ellis E., Reading, Pa. Clutches. No. 104,861; June 22; Gaz. vol. 215; p. 1258.
- Brown, Herbert B., Houston, Tex. Medicated liquids for catarrh, &c. No. 106,936; Nov. 9; Gaz. vol. 220; p. 669.
- Brown Hoisting Machinery Company, The, Cleveland, Ohio. Certain named machinery and tools and parts thereof. No. 104,086; Apr. 27; Gaz. vol. 213; p. 1444.
- Brown, Ira V., Los Angeles, Cal. Medical preparation used for internal and external application. No. 102,036; Jan. 26; Gaz. vol. 210; p. 1388.
- Brown, Jane R. A., Cooperstown, N. Y. Ointment. No. 104,929; June 29; Gaz. vol. 215; p. 1493.
- Brown, Morris, Philadelphia, Pa. Tablets and copy-books. No. 101,697; Jan. 5; Gaz. vol. 210; p. 395.
- Brown & Pattison, San Diego, Cal. Hog tonic and cholera preventive. No. 106,833; Nov. 2; Gaz. vol. 220; p. 343.
- Brown, Ralph, New York, N. Y. Liniment. No. 104,862; June 22; Gaz. vol. 215; p. 1258.
- Brown & Sharpe Manufacturing Company, Providence, R. I. Callipers and dividers. No. 106,292; Oct. 19; Gaz. vol. 219; p. 920.
- Brown Shoe Company, Inc., St. Louis, Mo. Women's leather shoes. No. 105,249; July 13; Gaz. vol. 216; p. 659.
- Brown-White Inc., Wilmington, Del. Candy. No. 105,250; July 13; Gaz. vol. 216; p. 659.
- Brown, Willis S., Jr., Belvidere, Ill., and Indianapolis, Ind., assignor to Eclipse Manufacturing Company, Indianapolis, Ind. Spark-plugs. No. 103,046; Mar. 16; Gaz. vol. 212; p. 1050.
- Brownell, William M., New York, N. Y. Crackers and biscuits. No. 102,037; Jan. 26; Gaz. vol. 210; p. 1388.
- Brucato, Peter, New York, N. Y. Lemons and oranges. No. 105,311; July 20; Gaz. vol. 216; p. 1007.
- Brückner, Herman A., Jersey City, N. J. Remedy for nervous disorders. No. 103,688; Apr. 13; Gaz. vol. 213; p. 740.
- Brunet, Gustave, New York, N. Y. Hair-restorer. No. 101,909; Jan. 19; Gaz. vol. 210; p. 1059.
- Bruno Grosche & Co., New York, N. Y. Disinfectants, wood-preservatives, fungicides, and insecticides. No. 106,429; Oct. 19; Gaz. vol. 219; p. 924.
- Bruno Grosche & Company, New York, N. Y. Waterproofing paints, paint-oils, and wood-stain. No. 106,430; Oct. 19; Gaz. vol. 219; p. 924.
- Bruns Bros., New Brunswick, N. J. Chocolates. No. 105,185; July 13; Gaz. vol. 216; p. 657.
- Brunswick-Balke-Collender Co., Chicago, Ill. Billiard-cloth. Nos. 106,556-9; Oct. 26; Gaz. vol. 219; p. 1227.
- Brunswig Drug Company, Los Angeles, Cal. Certain named pharmaceutical preparations for toilet purposes. No. 107,463; Nov. 30; Gaz. vol. 220; p. 1716.
- Brush-McCoy Pottery Company, The, Zanesville, Ohio. Certain named crockery and earthenware. No. 104,665; June 8; Gaz. vol. 215; p. 663.
- Brunston Electrical Co., The, Westminster, London, England. Self-contained electric-lighting plant. No. 105,151; July 6; Gaz. vol. 216; p. 324.
- Bryant, Augustus H., Philadelphia, Pa. Oil for repelling mosquitoes, flies, &c. No. 103,275; Mar. 30; Gaz. vol. 212; p. 1683.
- Bryant Electric Company, The, Bridgeport, Conn. Electrical fuse-plugs. No. 103,090; Mar. 16; Gaz. vol. 212; p. 1052.
- Bryant, Robert J., Binghamton, N. Y. Bread. No. 105,936; Aug. 31; Gaz. vol. 217; p. 1057.
- Bu Kola Tablet Co., Portland, Oreg. Remedy for nerves, bladder, and kidneys. No. 104,707; June 15; Gaz. vol. 215; p. 971.
- Buchstaben-Lampen-Gesellschaft m. b. H., Berlin, Germany. Incandescent electric lamps. No. 103,553; Apr. 6; Gaz. vol. 213; p. 355.
- Buck, Seralpha A., Monroe, Wash. Egg-crates. No. 106,043; Sept. 21; Gaz. vol. 218; p. 873.
- Buckeye Furnace & Clothes Dryer Co., Cleveland, Ohio. Combination gas and coal furnaces and garage-heaters. No. 101,828; Jan. 12; Gaz. vol. 210; p. 712.
- Buckeye Traction Ditcher Company, The, Findlay, Ohio. Trenching machinery. No. 103,644; Apr. 13; Gaz. vol. 213; p. 739.
- Buckley-Newhall Company, The, New York, N. Y. Sewing-machines, vacuum-cleaners, and carpet-sweepers. Nos. 106,205-6; Oct. 19; Gaz. vol. 219; p. 917.
- Buckley-Newhall Company, The, New York and Brooklyn, N. Y. Baby-carriages and go-carts. Nos. 106,207-8; Oct. 19; Gaz. vol. 219; p. 917.
- Buckley-Newhall Company, The, New York and Brooklyn, N. Y. Phonographs, talking-machines, pianos, organs, and music-boxes. Nos. 106,209-10; Oct. 19; Gaz. vol. 219; p. 917.
- Buckley-Newhall Company, The, New York and Brooklyn, N. Y. Refrigerators. Nos. 106,211-12; Oct. 19; Gaz. vol. 219; p. 917.
- Buckley-Newhall Company, The, New York, N. Y. Gas, vapor, and oil lamps. No. 106,937; Nov. 9; Gaz. vol. 220; p. 669.
- Buckley-Newhall Company, New York and Brooklyn, N. Y. Electric stoves and lamps. Nos. 106,938-9; Nov. 9; Gaz. vol. 220; p. 669.
- Buckley-Newhall Company, The, New York, N. Y. Household and office furniture. No. 107,487; Dec. 7; Gaz. vol. 221; p. 345.
- Buckley-Newhall Company, The, New York and Brooklyn, N. Y. Clothes-wringers and washing-machines. No. 107,488; Dec. 7; Gaz. vol. 221; p. 345.
- Buckley Refining Company, The, Cincinnati, Ohio. Intensifier for hydrocarbon-oils. No. 102,855; Feb. 23; Gaz. vol. 211; p. 1260.
- Budweiser, Bernhard, Chicago, Ill. House-dresses for women and children. No. 1,102,735; Feb. 23; Gaz. vol. 211; p. 1257.
- Buegeleisen, Samuel, New York, N. Y. Certain named musical instruments and parts thereof. No. 103,253; Mar. 23; Gaz. vol. 212; p. 1354.

Alphabetical list of registrants of trade-marks—Continued.

- Buerkle Cigar Company, Warren, Pa. Cigars. No. 103,709; Apr. 13; Gaz. vol. 213; p. 741.
- Buescher Band Instrument Co., Elkhart, Ind. Certain named musical instruments and supplies. No. 106,560; Oct. 26; Gaz. vol. 219; p. 1227.
- Buffalo Cereal Company, Buffalo, N. Y. Rolled oats or oatmeal. No. 106,940; Nov. 9; Gaz. vol. 220; p. 669.
- Buffalo Specialty Company, Buffalo, N. Y. Tire fluid. No. 102,784; Feb. 23; Gaz. vol. 211; p. 1258.
- Buffum, Frederick C., Westerly, R. I. Citrus fruits. No. 103,373; Mar. 30; Gaz. vol. 212; p. 1686.
- Bugler & Goebel Company, Chicago, Ill. Candy. No. 106,561; Oct. 26; Gaz. vol. 219; p. 1227.
- Buhl-Hemig Company, Chicago, Ill. Malt sugar or maltose. No. 105,312; July 20; Gaz. vol. 216; p. 1007.
- Bukolt, John J., Stevens Point, Wis. Tire straps or protectors. No. 104,826; June 22; Gaz. vol. 215; p. 1257.
- Bull Tractor Co., Minneapolis, Minn. Traction-engines. No. 104,593; June 8; Gaz. vol. 215; p. 661.
- Bullard Machine Tool Co., The, Bridgeport, Conn. Multiple-spindle machines. No. 102,874; Feb. 23; Gaz. vol. 211; p. 1261.
- Bullet Brand Laboratories, New York, N. Y. Certain named pharmaceutical preparations. No. 105,101; July 6; Gaz. vol. 216; p. 323.
- Bullis & Co., E. A., San Francisco, Cal. Certain named ingredients. No. 103,777; Apr. 13; Gaz. vol. 213; p. 743.
- Bullock, Seth, Deadwood, S. D. Alfalfa-seed. No. 107,046; Nov. 9; Gaz. vol. 220; p. 672.
- Bulmer, Thaddeus S., Greenport, N. Y. Bilge-pump. No. 104,763; June 15; Gaz. vol. 215; p. 973.
- Bunte Brothers, Chicago, Ill. Candy. Nos. 104,316-17; May 18; Gaz. vol. 214; p. 1022.
- Bunte Brothers, Chicago, Ill. Candy. No. 105,152; July 6; Gaz. vol. 216; p. 324.
- Bunte Brothers, Chicago, Ill. Candy. No. 105,251; July 13; Gaz. vol. 216; p. 659.
- Bunte Brothers, Chicago, Ill. Candy. No. 106,562; Oct. 26; Gaz. vol. 219; p. 1227.
- Burd, Roy L., Rockford, Ill. Metallic packing-rings for explosive, &c., engines. No. 103,152; Mar. 16; Gaz. vol. 212; p. 1053.
- Burdick, Harley B., Saginaw, Mich. Lawn-seed. No. 101,829; Jan. 12; Gaz. vol. 210; p. 712.
- Burdon, John W., Puerto de Santa Maria, Spain. Sherry-wine. No. 102,915; Mar. 2; Gaz. vol. 212; p. 324.
- Burgess, Edwin, London, England. Ointment. No. 102,038; Jan. 26; Gaz. vol. 210; p. 1388.
- Burgess, Thornton W., Springfield, Mass. Handkerchiefs. No. 107,601; Dec. 14; Gaz. vol. 221; p. 732.
- Burke, Harry G., New York, N. Y. Dentifrice and antiseptic for treating the oral cavity. No. 107,733; Dec. 28; Gaz. vol. 221; p. 1445.
- Burke & James, Inc., Chicago, Ill. Photographic developing-out papers. No. 105,336; July 20; Gaz. vol. 216; p. 1008.
- Burley & Stevens, Inc., Portland, Me., and Newburyport, Mass. Boots and shoes. No. 104,141; May 4; Gaz. vol. 214; p. 339.
- Burlington Toy & Novelty Company, Burlington, Vt. Toy construction-blocks. No. 105,288; July 13; Gaz. vol. 216; p. 660.
- Burmah Oil Company, Limited, The, Glasgow, Scotland. Candles. No. 101,910; Jan. 19; Gaz. vol. 210; p. 1059.
- Burnham, George T., Milan, Mo. Solution treatment for eczema and other skin diseases. No. 106,293; Oct. 19; Gaz. vol. 219; p. 920.
- Burns, James F., Philadelphia, Pa. Electrical conduit-fittings. No. 105,153; July 6; Gaz. vol. 216; p. 324.
- Burrell, Ernest L., Chicago, Ill. Belting and hose. No. 104,863; June 22; Gaz. vol. 215; p. 1258.
- Burrus, Bessie, Nashville, Tenn. Medicinal tonic. No. 106,406; Oct. 19; Gaz. vol. 219; p. 923.
- Burt, Alfred H., Buffalo, N. Y. Candy, chewing-gum, chocolates, and salted Spanish peanuts. No. 106,941; Nov. 9; Gaz. vol. 220; p. 669.
- Burton Bros. & Co., New York, N. Y. Silk, satin, cotton, and mixed silk and cotton piece goods. No. 105,713; Aug. 17; Gaz. vol. 217; p. 1049.
- Burton, Clarence F., Dallas, Tex. Floor-sweeping compounds. No. 104,045; Apr. 27; Gaz. vol. 213; p. 1442.
- Burton Powder Company, Pittsburgh, Pa. Permissive explosives. No. 104,441; June 1; Gaz. vol. 215; p. 317.
- Bushy Glove Co., Oakland, Cal. Gloves. Nos. 103,220-2; Mar. 23; Gaz. vol. 212; p. 1353.
- Buse, Gus G., Buffalo, N. Y. Wheat-flour. No. 105,888; Aug. 24; Gaz. vol. 217; p. 1336.
- Butler Brothers, Chicago, Ill. General wholesale-merchandise catalogue issued monthly. No. 107,661; Dec. 14; Gaz. vol. 221; p. 733.
- Butler, Henry H., Washington, D. C. Oleomargarin. No. 105,971; Sept. 7; Gaz. vol. 218; p. 317.
- Butterman, William F., Chicago, Ill. Dry substance composed of certain ingredients for a non-alcoholic food beverage. No. 106,737; Oct. 26; Gaz. vol. 219; p. 1233.
- Butts, Cornelius L., St. Louis, Mo. Whistle-calls. No. 106,738; Oct. 26; Gaz. vol. 219; p. 1233.
- Buxton, Benjamin C., Middletown Springs, Vt. Certain named foods. No. 102,252; Feb. 2; Gaz. vol. 211; p. 279.
- Byron, John J., Troy, N. Y. Knit underwear. No. 104,142; May 4; Gaz. vol. 214; p. 339.
- C. Bruno & Son, Inc., New York, N. Y. Certain named musical instruments and supplies. No. 103,311; Mar. 30; Gaz. vol. 212; p. 1684.
- C. Sydney Smith Company, Providence, R. I. Jewelry. No. 102,193; Jan. 26; Gaz. vol. 210; p. 1392.
- C. A. Gambrell Mfg. Co., Baltimore, Md. Self-rising wheat-flour. No. 102,086; Jan. 26; Gaz. vol. 210; p. 1389.
- C. A. Willey Company, New York, N. Y. Varnish. No. 104,188; May 4; Gaz. vol. 214; p. 341.
- C. B. Muench Co., Milwaukee, Wis. Fresh oysters. No. 104,628; June 8; Gaz. vol. 215; p. 662.
- C. B. Woodworth Sons Co., The, Rochester, N. Y. Perfumes, toilet waters and creams, talcum powder. No. 103,139; Mar. 16; Gaz. vol. 212; p. 1053.
- C. B. Woodworth Sons Co., The, Rochester, N. Y. Tooth powder, wash, and paste. No. 103,140; Mar. 16; Gaz. vol. 212; p. 1053.
- C. B. Woodworth Sons Co., Rochester, N. Y. Perfumes, toilet waters, sachet and talcum powders. No. 104,758; June 15; Gaz. vol. 215; p. 973.
- C. B. Woodworth Sons Co., The, Rochester, N. Y. Perfumes, toilet waters, creams, rouges, and powders. No. 106,129; Oct. 12; Gaz. vol. 219; p. 582.
- C. B. Woodworth Sons Co., Rochester, N. Y. Perfumes, toilet waters and creams, sachet, talcum, and face powders. No. 107,034; Nov. 9; Gaz. vol. 220; p. 672.
- C. C. Fouts Co., The, Middletown, Ohio. Silos and tanks. No. 106,320; Oct. 19; Gaz. vol. 219; p. 921.
- C. C. Fouts Co., The, Middletown, Ohio. Culverts and flumes. No. 106,321; Oct. 19; Gaz. vol. 219; p. 921.
- C. De Witt Lukens Surgical Manufacturing Co., St. Louis, Mo. Surgical sutures and needles. No. 107,270; Nov. 16; Gaz. vol. 220; p. 1039.
- C. D. Kenny Co., Baltimore, Md. Coffee. No. 106,624; Oct. 26; Gaz. vol. 219; p. 1229.
- C. D. Pruden Company, The, Baltimore, Md. Steel portable buildings. No. 106,498; Oct. 19; Gaz. vol. 219; p. 926.
- C. E. Byrne Piano Co. Inc., New York, N. Y. Pianos and player-pianos. No. 102,039; Jan. 26; Gaz. vol. 210; p. 1388.
- C. E. Wheelock & Co., Peoria, Ill. Certain named crockery, earthenware, and chinaware. No. 102,703; Feb. 23; Gaz. vol. 211; p. 1256.
- C. E. Wheelock & Co., Peoria, Ill. Certain named cut-glass articles. No. 103,404; Mar. 30; Gaz. vol. 212; p. 1687.
- C. F. Bonsor & Co., Inc., Philadelphia, Pa. Coffees, teas, rice, spices, &c. No. 103,371; Mar. 30; Gaz. vol. 212; p. 1686.
- C. F. Hickok Company, The, Sidney, Ohio. Candy. No. 102,796; Feb. 23; Gaz. vol. 211; p. 1259.
- C. F. Schmoer Furniture Co., Shelbyville, Ind. Kitchen-cabinets. No. 105,082; July 6; Gaz. vol. 216; p. 322.
- C. F. Strellt Mfg. Co., Cincinnati, Ohio. Beds. No. 105,764; Aug. 17; Gaz. vol. 217; p. 1050.
- C. G. Betts Company, Spokane, Wash. Bituminous cement and paving-cement and fillers for cement. No. 103,217; Mar. 23; Gaz. vol. 212; p. 1353.
- C. H. Dexter & Sons, Incorporated, Windsor Locks, Conn. Toilet, writing, printing, &c., paper. No. 104,712; June 15; Gaz. vol. 215; p. 971.
- C. H. Pattengill Corporation, New York, N. Y. Cigars. No. 102,689; Feb. 23; Gaz. vol. 211; p. 1255.
- C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Steam-condensers. No. 107,130; Nov. 9; Gaz. vol. 220; p. 675.
- C. M. Moderwell & Company, Chicago, Ill. Coal. No. 102,295; Feb. 2; Gaz. vol. 211; p. 280.
- C. R. Cook Paint Company, Kansas City, Mo. Certain named paints and painters' supplies. No. 102,063; Jan. 26; Gaz. vol. 210; p. 1388.
- C. R. Cook Paint Company, Kansas City, Mo. Monthly magazine. No. 104,816; June 15; Gaz. vol. 215; p. 974.
- C-V-Scaler Co., Mercersburg, Pa. Semiliquid seal for punctures in pneumatic tires. No. 103,153; Mar. 16; Gaz. vol. 212; p. 1053.
- Cabell Company, The, Baltimore, Md. Prepared wheat-flour. No. 102,997; Mar. 16; Gaz. vol. 212; p. 1049.
- Cabell Company, The, Baltimore, Md. Certain named foods. No. 107,570; Dec. 14; Gaz. vol. 221; p. 731.
- Cabränge Manufacturing Company. (See Cabränge Mfg. Co., assignor.)
- Cabränge Mfg. Co., assignor to Cabränge Manufacturing Company, Belleville, Ill. Ranges. No. 105,580; Aug. 10; Gaz. vol. 217; p. 693.
- Cable-Draper Baking Co., Detroit, Mich. Bread. No. 105,581; Aug. 10; Gaz. vol. 217; p. 693.
- Cache Knitting Works, Logan, Utah. Certain named clothing for infants, ladies, children, and men. No. 103,416; Apr. 6; Gaz. vol. 213; p. 351.
- Cactola Remedy Co., Emerson, Nebr. Remedies for whooping-cough, croup, coughs, and colds. No. 102,959; Mar. 9; Gaz. vol. 212; p. 685.
- Cactus Chemical Co., Salt Lake City, Utah. Furniture-polish and varnish-remover. No. 105,010; June 29; Gaz. vol. 215; p. 1495.
- Cadenas & Co., Leonardo, Montevideo, Uruguay. Kerosene-oil. No. 105,337; July 20; Gaz. vol. 216; p. 1008.

- Cado Co., Inc., New York, N. Y. Cigarettes. No. 101,765; Jan. 12; Gaz. vol. 210; p. 710.
- Cahill-Igoe Company, Chicago, Ill. Periodical issued weekly. No. 107,312; Nov. 23; Gaz. vol. 220; p. 1367.
- Cahn, Belt & Co., Baltimore, Md. Blend whisky. No. 103,047; Mar. 16; Gaz. vol. 212; p. 1050.
- Caldwell, Joseph T., New York, N. Y. Prepared inoculated humus. No. 106,295; Oct. 19; Gaz. vol. 219; p. 920.
- California Canneries Co., San Francisco, Cal. Canned fruits. No. 101,912; Jan. 19; Gaz. vol. 210; p. 1059.
- California Compounding Company, San Jose, Cal. Fuel-oils and lubricants. No. 103,581; Apr. 6; Gaz. vol. 213; p. 356.
- California Cotton Mills Co., Oakland, Cal. Certain named cotton and linen fabrics. No. 103,091; Mar. 16; Gaz. vol. 212; p. 1052.
- California Fig Syrup Co., Reno, Nev.; San Francisco, Cal.; Louisville, Ky.; Wheeling, W. Va., and New York, N. Y. Liquid laxative medicines. No. 104,087; Apr. 27; Gaz. vol. 213; p. 1444.
- California Fruit Beverage Company, Los Angeles, Cal. Pineapple mixture, non-alcoholic, carbonated and not carbonated. No. 105,807; Aug. 17; Gaz. vol. 217; p. 1052.
- California Fruit Beverage Company, Los Angeles, Cal. Ginger-ale. No. 106,563; Oct. 26; Gaz. vol. 219; p. 1227.
- California Fruit Beverage Company, Los Angeles, Cal. Fruit or artificial-fruit syrup for soft drinks. No. 107,440; Nov. 30; Gaz. vol. 220; p. 1715.
- California Motion Picture Corporation, San Francisco, Cal. Moving-picture films. No. 106,739; Oct. 26; Gaz. vol. 219; p. 1233.
- California Paper & Board Mills, San Francisco, Cal. Paper-board and wrapping-paper. No. 103,374; Mar. 30; Gaz. vol. 212; p. 1686.
- California Walnut Growers Association, Los Angeles, Cal. Walnuts. No. 106,834; Nov. 2; Gaz. vol. 220; p. 343.
- Calman, Henry L., New York, N. Y. Varnishes. No. 106,143; Oct. 12; Gaz. vol. 219; p. 582.
- Calumet Baking Powder Company, Chicago, Ill. Baking-powder. No. 103,276; Mar. 30; Gaz. vol. 212; p. 1683.
- Cambria Steel Company, Johnstown, Pa. Certain named machinery, tools, and parts thereof. No. 107,150; Nov. 16; Gaz. vol. 220; p. 1035.
- Cameron, Alfred G., Oakland, Cal. Wall-boards. No. 105,808; Aug. 17; Gaz. vol. 217; p. 1052.
- Cameron, Donald J., Syracuse, N. Y. Boots and shoes. Nos. 103,277-9; Mar. 30; Gaz. vol. 212; p. 1683.
- Campbell Art Company, Elizabeth, N. J. Picture-cards. No. 102,998; Mar. 16; Gaz. vol. 212; p. 1049.
- Campbell Holton & Co., Bloomington, Ill. Certain named foods. No. 102,410; Feb. 9; Gaz. vol. 211; p. 635.
- Campbell Holton & Co., Bloomington, Ill. Certain named foods. No. 102,798; Feb. 23; Gaz. vol. 211; p. 1259.
- Campbell, Metzger & Jacobson, New York, N. Y. Crochet needles and hooks. No. 105,338; July 20; Gaz. vol. 216; p. 1008.
- Campbell, Metzger & Jacobson, New York, N. Y. Certain named fancy goods, furnishings, and notions. No. 106,296; Oct. 19; Gaz. vol. 219; p. 920.
- Campbell & Woods Company, The, Pittsburgh, Pa. Blend-coffees. No. 104,013; Apr. 27; Gaz. vol. 213; p. 1441.
- Canadian Farm Produce Company, Limited, The, Montreal, Quebec, Canada. Milk, cream, butter, and cheese. No. 105,956; Aug. 31; Gaz. vol. 217; p. 1657.
- Canadian Mill & Elevator Co., El Reno, Okla. Wheat-flour. No. 106,942; Nov. 9; Gaz. vol. 220; p. 669.
- Canandaigua Brewery, Inc., Canandaigua, N. Y. Non-alcoholic fruit drinks. No. 106,740; Oct. 26; Gaz. vol. 219; p. 1233.
- Canastota Canning Company, Canastota, N. Y. Canned vegetables and fruits. No. 103,312; Mar. 30; Gaz. vol. 212; p. 1684.
- Canastota Canning Company, Canastota, N. Y. Canned vegetables and fruits. Nos. 104,666-7; June 8; Gaz. vol. 216; p. 663.
- Canastota Canning Company, Canastota, N. Y. Canned vegetables and fruits. No. 105,154; July 6; Gaz. vol. 216; p. 324.
- Candy Bros. Mfg. Co., St. Louis, Mo. Fruit tablets. No. 102,040; Jan. 26; Gaz. vol. 210; p. 1388.
- Canton Culvert and Silo Company, The, Canton, Ohio. Rust-resisting anticorrosive metal. No. 105,972; Sept. 7; Gaz. vol. 218; p. 317.
- Capowell Horse Nail Company, The, Hartford, Conn. Horse-nails. Nos. 107,541-2; Dec. 7; Gaz. vol. 221; p. 347.
- Capital Electric Company, Chicago, Ill. Clothes-washing machines. No. 103,254; Mar. 23; Gaz. vol. 212; p. 1354.
- Capital Grocery Company, Lincoln, Nebr. Fruit cake. No. 105,339; July 20; Gaz. vol. 216; p. 1008.
- Capitol Refining Company, Inc., The, South Washington, Va. Combination of animal fats for shortening. Nos. 102,557-8; Feb. 16; Gaz. vol. 211; p. 951.
- Carbo Hydrogen Co. of America, Pittsburgh, Pa. Welding and cutting torches or blowpipes. No. 107,662; Dec. 14; Gaz. vol. 221; p. 733.
- Cardalitos Oil Company, New York, N. Y. Crude petroleum, oils, naphthas, &c. No. 104,248; May 11; Gaz. vol. 214; p. 678.
- Carisa Mfg. Co., Inc., New York, N. Y. Cleaning and polishing preparation. No. 107,239; Nov. 16; Gaz. vol. 220; p. 1038.
- Carl Co., Schenectady, N. Y. Cotton piece goods. No. 104,708; June 15; Gaz. vol. 215; p. 971.
- Carl H. Schultz, Inc., New York, N. Y. Certain named non-alcoholic beverages. No. 107,280; Nov. 16; Gaz. vol. 220; p. 1039.
- Carlson, Augusta, Buffalo, N. Y. Remedy for certain named diseases. No. 101,766; Jan. 12; Gaz. vol. 210; p. 710.
- Carlson-Lusk Hdwe. Co., Ltd., The, Boise, Idaho. Hunting-knives. No. 103,376; Mar. 30; Gaz. vol. 212; p. 1686.
- Carlsten-Williams Company, Chicago, Ill. Pneumatic vehicle-tires, tire-casings, and inner tubes. No. 107,313; Nov. 23; Gaz. vol. 220; p. 1367.
- Carlsten-Williams Company, Chicago, Ill. Pneumatic vehicle-tires, casings, and inner tubes. No. 107,413; Nov. 23; Gaz. vol. 220; p. 1370.
- Carmichael, Almet S., Denver, Colo. Compound for curing punctures in tires. No. 102,042; Jan. 26; Gaz. vol. 210; p. 1388.
- Carolina Baking Company, Charlotte, N. C. Bread, cake, pies, pastry, &c. No. 103,723; Apr. 13; Gaz. vol. 213; p. 741.
- Carolina Baking Company, Charlotte, N. C. Bread, cake, pies, &c. Nos. 107,047-8; Nov. 9; Gaz. vol. 220; p. 673.
- Carolina Mills Co., Winston-Salem, N. C. Hosiery. No. 103,223; Mar. 23; Gaz. vol. 212; p. 1353.
- Carpenter-Morton Company, Boston, Mass. Ready roofing. No. 101,830; Jan. 12; Gaz. vol. 210; p. 712.
- Carpenter-Morton Company, Boston, Mass. Floor-finishes. No. 101,913; Jan. 19; Gaz. vol. 210; p. 1059.
- Carpenter-Morton Company, Boston, Mass. Liquid paints, varnishes, &c., for straw and ratan goods. No. 107,414; Nov. 23; Gaz. vol. 220; p. 1370.
- Carran, William A., Cleveland, Ohio. Automobile-oil. No. 102,370; Feb. 9; Gaz. vol. 211; p. 634.
- Carroll, Chas. E., Newport, Ark. Tooth-brushes. No. 107,663; Dec. 14; Gaz. vol. 221; p. 733.
- Carroll, John B., St. Louis, Mo. Liquid preparation for treatment of certain named diseases. No. 107,240; Nov. 16; Gaz. vol. 220; p. 1038.
- Carsana, Armando, Milan, Italy. Medicinal bitters containing iron and quinin. No. 103,280; Mar. 30; Gaz. vol. 212; p. 1683.
- Carson Glove Co., San Francisco, Cal. Gloves. Nos. 101,767-70; Jan. 12; Gaz. vol. 210; p. 710.
- Carson Glove Co., San Francisco, Cal. Leather gloves. No. 102,626; Feb. 16; Gaz. vol. 211; p. 953.
- Carson, Pirie, Scott & Co., Chicago, Ill. Men's and boys' outside shirts and nightgowns. No. 102,253; Feb. 2; Gaz. vol. 211; p. 279.
- Carson, Pirie, Scott & Co., Chicago, Ill. Ladies' coats, outer suits, and undermuslins. No. 102,371; Feb. 9; Gaz. vol. 211; p. 634.
- Carson, Pirie, Scott & Co., Chicago, Ill. Bleached muslin. Nos. 103,281-2; Mar. 30; Gaz. vol. 212; p. 1683.
- Carson, Pirie, Scott & Co., Chicago, Ill. Cloaks, suits, dresses, and rain-coats. No. 105,937; Aug. 31; Gaz. vol. 217; p. 1657.
- Carson, Pirie, Scott & Co., Chicago, Ill. Crochet-cotton. Nos. 105,938-40; Aug. 31; Gaz. vol. 217; p. 1657.
- Carter and Rand, Boston and Winthrop, Mass. Bread, biscuits, cake, and pastry. No. 102,043; Jan. 26; Gaz. vol. 210; p. 1388.
- Carter's Ink Company, Cambridge, Mass. Type-writer ribbons and carbon-paper. No. 104,815; June 15; Gaz. vol. 215; p. 974.
- Carter's Ink Company, The, Cambridge, Mass. Adhesive paste. No. 105,714; Aug. 17; Gaz. vol. 217; p. 1049.
- Carton Belting Company, The, Berwick, Me., and Boston, Mass. Stitched canvas belting. No. 105,289; July 13; Gaz. vol. 216; p. 660.
- Cartwright & Reay, Saginaw, Mich. Toothpicks. No. 107,152; Nov. 16; Gaz. vol. 220; p. 1035.
- Cary Manufacturing Co., Brooklyn, N. Y. Metal box-strapping. No. 104,177; May 4; Gaz. vol. 214; p. 340.
- Casale & Sons, G., Brooklyn, N. Y. Candles. No. 107,602; Dec. 14; Gaz. vol. 221; p. 732.
- Cash Buyers Union, Inc., Coachella, Cal. Fresh table-grapes. No. 104,595; June 8; Gaz. vol. 215; p. 661.
- Cash, Laurence E., New York, N. Y. Remedy for certain named ailments. No. 103,375; Mar. 30; Gaz. vol. 212; p. 1686.
- Cassada Manufacturing Co., Chester, Pa. Talcum powder. No. 103,193; Mar. 16; Gaz. vol. 212; p. 1055.
- Cassaday, Burton, West Terre Haute, Ind. Soft drinks drawn from the fountain or sealed in bottles. No. 105,715; Aug. 17; Gaz. vol. 217; p. 1049.
- Castelberg & Son, J., Baltimore, Md. Jewelry for personal wear, gold and silver ware, diamonds, &c. No. 107,512; Dec. 7; Gaz. vol. 221; p. 346.
- Castlebone Company, New York, N. Y. Stiffening cords, blades, and tapes. No. 104,201; May 11; Gaz. vol. 214; p. 677.
- Castlebone Company, New York, N. Y. Featherbone. No. 106,835; Nov. 2; Gaz. vol. 220; p. 343.

Alphabetical list of registrants of trade-marks—Continued.

- Castor Products Company, The, Cleveland, Ohio. Cathartic preparations. No. 105,889; Aug. 24; Gaz. vol. 217; p. 1336.
- Caubrière, Auguste A. M., Cherbourg, France. Digestive liqueur. No. 102,372; Feb. 9; Gaz. vol. 211; p. 634.
- Cause Manufacturing and Importing Company, Jersey City, N. J. Certain named foods. No. 107,049; Nov. 9; Gaz. vol. 220; p. 673.
- Cavanaugh, James H., Anacortes, Wash. Shingles. No. 105,012; June 29; Gaz. vol. 215; p. 1495.
- Cayey-Caguas Tobacco Company, New York, N. Y. Cigars, cheroots, and cigarettes made of cigar-tobacco. No. 105,290; July 13; Gaz. vol. 216; p. 660.
- Cedar Rapids Canning Co., Cedar Rapids, Iowa. Canned vegetables. Nos. 103,995-7; Apr. 27; Gaz. vol. 213; p. 1441.
- Celro-Kola Company, Portland, Oreg. Tonic for nervous disorders and general debility. No. 103,807; Apr. 13; Gaz. vol. 213; p. 744.
- Cemetery Beautiful Publishing Company, Chicago, Ill. Monthly magazine. No. 102,916; Mar. 2; Gaz. vol. 212; p. 324.
- Centadruk Filters Co. Inc., New York, N. Y. Filters, water-coolers, and refrigerators. No. 107,543; Dec. 7; Gaz. vol. 221; p. 347.
- Centadruk Filters Co. Inc., New York, N. Y. Certain named hardware and plumbing supplies. No. 107,544; Dec. 7; Gaz. vol. 221; p. 347.
- Central Automobile Supply Company, Des Moines, Iowa. Wrenches, tire-tools, pliers, &c. No. 104,318; May 18; Gaz. vol. 214; p. 1022.
- Central Ohio Paper Co., Columbus, Ohio. Building and roofing paper. No. 101,771; Jan. 12; Gaz. vol. 210; p. 710.
- Central Paper Company, Muskegon, Mich. Paper towels and napkins. No. 106,064; Sept. 28; Gaz. vol. 218; p. 1153.
- Central Telephone & Electric Company, St. Louis, Mo. Incandescent electric lights. No. 102,935; Mar. 2; Gaz. vol. 212; p. 324.
- Central Tube Company, Pittsburgh, Pa. Electric conduit-pipe. No. 106,297; Oct. 19; Gaz. vol. 219; p. 920.
- Cera, Enrique, Barcelona, Spain. Tonics for the nerves. No. 105,455; July 27; Gaz. vol. 216; p. 1313.
- Ceylana Tea Company, New York, N. Y. Coffee, tea, and cocoa. No. 103,645; Apr. 13; Gaz. vol. 213; p. 739.
- Chace, William W., New York, N. Y. Laces. No. 107,467; Dec. 7; Gaz. vol. 221; p. 345.
- Chain Belt Company, Milwaukee, Wis. Drive, conveying, and power-transmission chains. Nos. 106,836-9; Nov. 2; Gaz. vol. 220; p. 343.
- Challoner Co., Oshkosh, Wis. Horseshoe-calks. No. 105,890; Aug. 24; Gaz. vol. 217; p. 1336.
- Chalmers Motor Company, Detroit, Mich. Automobiles. Nos. 107,545-6; Dec. 7; Gaz. vol. 221; p. 347.
- Chalmers & Son, Harvey, Amsterdam, N. Y. Shell buttons. No. 102,373; Feb. 9; Gaz. vol. 211; p. 634.
- Champion Animal Food Company, St. Paul, Minn. Dog-biscuit. No. 107,676; Dec. 21; Gaz. vol. 221; p. 1035.
- Champion Carbon Company, The, Cincinnati, Ohio. Dry batteries. No. 101,914; Jan. 19; Gaz. vol. 210; p. 1059.
- Champion Ignition Co., Flint, Mich. Spark-plugs. No. 103,255; Mar. 23; Gaz. vol. 212; p. 1354.
- Champion Spark Plug Company, Toledo, Ohio. Spark-plugs. No. 104,202; May 11; Gaz. vol. 214; p. 677.
- Champion Spark Plug Company, Toledo, Ohio. Spark-plugs. No. 107,050; Nov. 9; Gaz. vol. 220; p. 673.
- Chance & Hunt, Limited, Oldbury, England. Spelter. No. 104,377; May 25; Gaz. vol. 214; p. 1316.
- Chance & Son, Frank S., Indianapolis, Ind. Polish. No. 107,051; Nov. 9; Gaz. vol. 220; p. 673.
- Chandler Motor Car Company, Cleveland, Ohio. Automobiles. No. 107,153; Nov. 16; Gaz. vol. 220; p. 1035.
- Chandon et Cie., Eprenay, France. Champagne-wine. No. 102,960; Mar. 9; Gaz. vol. 212; p. 685.
- Chandon et Cie., Eprenay, France. Champagne-wine. No. 104,178; May 4; Gaz. vol. 214; p. 341.
- Chapin, Charles E., New York, N. Y. Wire brushes for dynamos and motors. No. 101,915; Jan. 19; Gaz. vol. 210; p. 1059.
- Chapin & Company, Incorporated, Hammond, Ind. Mixed feeds for horses, cattle, and farm-stock. No. 107,603; Dec. 14; Gaz. vol. 221; p. 732.
- Chapin & Company, Incorporated, Hammond, Ind. Prepared food for horses, cattle, &c. Nos. 107,837-9; Dec. 28; Gaz. vol. 221; p. 1448.
- Chapin & Company, Incorporated, Hammond, Ind. Mixed feeds for horses, cattle, and farm stock. No. 107,838; Dec. 28; Gaz. vol. 221; p. 1448.
- Chapin-Sacks Manufacturing Co., Washington, D. C. Ice-cream cones. No. 107,052; Nov. 9; Gaz. vol. 220; p. 673.
- Chapman & Smith Company, Chicago, Ill. Nut paste used by bakers to make "tangoroon." No. 102,327; Feb. 9; Gaz. vol. 211; p. 633.
- Chapple Publishing Company, Boston, Mass. Monthly magazines. No. 104,442; June 1; Gaz. vol. 215; p. 317.
- Chapple Publishing Company, Boston, Mass. Monthly magazines. No. 105,995; Sept. 14; Gaz. vol. 218; p. 599.
- Charles A. Eaton Company, Brockton, Mass. Leather boots and shoes. No. 102,649; Feb. 16; Gaz. vol. 211; p. 954.
- Charles B. Knox Company, Inc., Johnstown, N. Y. Gelatin. Nos. 107,348-9; Nov. 23; Gaz. vol. 220; p. 1368.
- Charles Reseler Company, New York, N. Y. Stereoscopic apparatus. No. 101,902; Jan. 19; Gaz. vol. 210; p. 1059.
- Charles E. Shedaker & Sons, Philadelphia, Pa. Children's union underwear. No. 107,746; Dec. 28; Gaz. vol. 221; p. 1445.
- Charles H. Brown Paint Co., The, New York, N. Y. Paints, varnishes, enamels, and paint-oils. No. 106,832; Nov. 2; Gaz. vol. 220; p. 343.
- Charles L. Poor Co., New York, N. Y. Cotton piece goods. No. 103,178; Mar. 16; Gaz. vol. 212; p. 1054.
- Charles Nledner's Sons Co., Malden, Mass. Linen hose. Nos. 107,628-30; Dec. 14; Gaz. vol. 221; p. 732.
- Charles P. Matthews & Sons, Inc., Philadelphia, Scranton, Carbondale, Monroeton, and Rummerville, Pa., and Buffalo, N. Y. Wheat-flour. No. 105,217; July 13; Gaz. vol. 216; p. 658.
- Charles Tiedemann Milling Co., O'Fallon, Ill. Self-rising wheat-flour. No. 101,988; Jan. 19; Gaz. vol. 210; p. 1061.
- Charles William Stores, Inc., Brooklyn, N. Y. Certain named cutlery, machinery, and tools. No. 104,811; June 15; Gaz. vol. 215; p. 974.
- Charles William Stores, Inc., The, Brooklyn, N. Y. Gloves. No. 105,705; Aug. 10; Gaz. vol. 217; p. 697.
- Charles William Stores, Inc., The, Brooklyn, N. Y. Certain named clothing. No. 107,799; Dec. 28; Gaz. vol. 221; p. 1447.
- Charon Products Company, Philadelphia, Pa. Sodium powder used as a cleansing compound. No. 104,143; May 4; Gaz. vol. 214; p. 339.
- Chas. A. Schieren Company, New York, N. Y. Cut belting. No. 103,680; Apr. 13; Gaz. vol. 213; p. 740.
- Chas. A. Stevens & Bros., Chicago, Ill. Gloves. No. 101,883; Jan. 12; Gaz. vol. 210; p. 713.
- Chas. Eneu Johnson & Co., Philadelphia, Pa. Lithographing, printing, and engraving inks. No. 102,385; Feb. 9; Gaz. vol. 211; p. 635.
- Chas. L. Ireson (Inc.), Boston, Mass. Leather beltings. No. 103,876; Apr. 20; Gaz. vol. 213; p. 1112.
- Chas. L. Kiewert Co., Milwaukee, Wis. Pitch substitute for internally coating beer-kegs, barrels, &c. No. 103,064; Mar. 16; Gaz. vol. 212; p. 1051.
- Chas. L. Kiewert Co., Milwaukee, Wis. Varnish substitute for internally coating fermenting tubs, casks, &c. No. 103,065; Mar. 16; Gaz. vol. 212; p. 1051.
- Chautauqua Towel Mills, Jamestown, N. J. Towels, textile bath sheets and mats. No. 102,044; Jan. 26; Gaz. vol. 210; p. 1388.
- Chayes, Herman E. S., New York, N. Y. Dental instruments. Nos. 102,045-6; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Roasted coffee. No. 102,047; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Blended coffee and tea. No. 102,048; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Coffee. No. 102,049; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Blended coffee and tea. No. 102,050; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Blended coffee. No. 102,051; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Roasted coffee. No. 102,052; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Blended coffee. No. 102,053; Jan. 26; Gaz. vol. 210; p. 1388.
- Cheek-Neal Coffee Co., Nashville, Tenn. Coffee and chicory mixture. No. 102,254; Feb. 2; Gaz. vol. 211; p. 279.
- Chemical Construction Company, Charlotte, N. C. Acid-proof construction-cements. No. 105,784; Aug. 17; Gaz. vol. 217; p. 1051.
- Chemische Fabrik Düsseldorf Aktiengesellschaft, Leipzig, Germany. Cleaning and polishing preparations for certain named materials. No. 104,930; June 29; Gaz. vol. 215; p. 1493.
- Chemische Fabrik Güstrow Dr. Hillringhaus & Dr. Hellmann, Güstrow and Heldeweg, Germany. Remedy for nervous diseases. No. 107,547; Dec. 7; Gaz. vol. 221; p. 347.
- Chemische Fabrik Reisholz Gesellschaft mit beschränkter Haftung, Düsseldorf-Reisholz, Germany. Remedies for certain named diseases. No. 106,213; Oct. 19; Gaz. vol. 219; p. 917.
- Chemische Fabrik Stockhausen & Cie., Krefeld, Germany. Solids, liquids, or pastes for washing and cleaning. No. 102,054; Jan. 26; Gaz. vol. 210; p. 1388.
- Chesbrough, George W., Rochester, N. Y. Infants' shoes. No. 107,053; Nov. 9; Gaz. vol. 220; p. 673.
- Chevrolet Motor Company of New York, Inc., New York, N. Y. Automobiles, motor-vehicles, and parts thereof. No. 104,903; June 22; Gaz. vol. 215; p. 1259.
- Chiba, Shirosaburo, Seattle, Wash. Remedy for diseases of females. No. 102,055; Jan. 26; Gaz. vol. 210; p. 1388.
- Chiba, Shirosaburo, Seattle, Wash. Digestive medicines. No. 103,940; Apr. 20; Gaz. vol. 213; p. 1114.

- Chicago Dryer Company, Chicago, Ill. Ironing and washing machines, ironing-boards, tubs, wringers. No. 103,196; Mar. 23; Gaz. vol. 212; p. 1353.
- Chicago Dryer Company, Chicago, Ill. Gas, coal, wood, and oil stoves. No. 103,582; Apr. 6; Gaz. vol. 213; p. 356.
- Chicago Fire Brick Co., Chicago, Ill. Plastic compounds for repairing and laying up brickwork. No. 102,936; Mar. 2; Gaz. vol. 212; p. 324.
- Chicago Germicide Co., Chicago, Ill. Germicides. No. 104,791; June 15; Gaz. vol. 215; p. 974.
- Chicago Hardware Foundry Company, North Chicago, Ill. Certain named furniture. No. 102,056; Jan. 26; Gaz. vol. 210; p. 1388.
- Chicago Hat Manufacturing and Bleaching Company, Chicago, Ill. Ladies' hats. No. 107,548; Dec. 7; Gaz. vol. 221; p. 347.
- Chicago-Kenosha Hosiery Co., Kenosha, Wis. Hosiery. No. 102,509; Feb. 9; Gaz. vol. 211; p. 638.
- Chicago Railway Signal and Supply Company, Carpentersville, Ill. Semaphore apparatus. No. 105,388; July 20; Gaz. vol. 216; p. 1009.
- Chicago Rubber Company, Chicago, Ill. Lamp connections. No. 103,890; Apr. 20; Gaz. vol. 213; p. 1112.
- Chicago Sporting Goods Manufacturing Company, Chicago, Ill. Base-ball mitts and gloves. No. 102,057; Jan. 26; Gaz. vol. 210; p. 1388.
- Childs Company, New York, N. Y. Whole milk scientifically soured. No. 104,865; June 22; Gaz. vol. 215; p. 1258.
- Chipman, Harwood & Co., Boston, Mass. Leather and canvas boots and shoes. No. 104,204; May 11; Gaz. vol. 214; p. 677.
- Chipman's Sons, Chas. Easton and South Bethlehem, Pa. Hosiery. No. 101,916; Jan. 19; Gaz. vol. 210; p. 1059.
- Chippewa Milling Company, Montevideo, Minn. Wheat-flour. No. 103,197; Mar. 23; Gaz. vol. 212; p. 1353.
- Chmel, první česká továrna výroba a vývoz zboží uzenářského na Kr. Vinohradech, Antonín. Königliche Weinberge, near Prague, Austria-Hungary. Smoked hams. No. 103,936; Apr. 20; Gaz. vol. 213; p. 1113.
- Chocolate Products Company, Baltimore, Md. Candy. No. 103,941; Apr. 20; Gaz. vol. 213; p. 1114.
- Choctaw Sales Company, Kansas City, Mo. Cotton-seed meal and cake. No. 104,319; May 18; Gaz. vol. 214; p. 1022.
- Chop Suey Cannery, San Francisco, Cal. Canned chop suey. No. 105,973; Sept. 7; Gaz. vol. 218; p. 317.
- Chop Suey Sauce Company, New York, N. Y. Chop-suey sauce. No. 107,468; Dec. 7; Gaz. vol. 221; p. 345.
- Chr. Bjelland & Co., Inc., New York, N. Y. Canned sardines. No. 102,030; Jan. 26; Gaz. vol. 210; p. 1388.
- Chr. Bjelland & Co., Inc., New York, N. Y. Canned sardines. No. 102,360; Feb. 9; Gaz. vol. 211; p. 634.
- Chr. Bjelland & Co., Inc., New York, N. Y. Canned sardines. Nos. 103,084-6; Mar. 16; Gaz. vol. 212; p. 1051.
- Chr. Bjelland & Co., Inc., New York, N. Y. Canned herrings in tomato sauce. No. 103,087; Mar. 16; Gaz. vol. 212; p. 1051.
- Chr. Bjelland & Co., Inc., New York, N. Y. Canned sardines. No. 103,088; Mar. 16; Gaz. vol. 212; p. 1051.
- Chr. Bjelland & Co., Inc., New York, N. Y. Canned sardines. Nos. 103,745-6; Apr. 13; Gaz. vol. 213; p. 742.
- Christman, Louis F., Jackson, Tenn. Liquid liver remedy. No. 106,564; Oct. 26; Gaz. vol. 219; p. 1227.
- Christman, Louis F., Jackson, Tenn. Headache and neuralgia. No. 107,826; Dec. 28; Gaz. vol. 221; p. 1448.
- Dec. 7; Gaz. vol. 221; p. 346.
- Church & Dwight Co., New York, N. Y. Saleratus, bicarbonate of soda, and sal-soda. Nos. 106,214-16; Oct. 19; Gaz. vol. 219; p. 917.
- Church & Dwight Company, New York, N. Y. Saleratus, bicarbonate of soda, and sal-soda. Nos. 104,249-50; May 11; Gaz. vol. 214; p. 678.
- Church & Dwight Company, New York, N. Y. Saleratus, bicarbonate of soda, and sal-soda. No. 104,320; May 18; Gaz. vol. 214; p. 1022.
- Cimadomo, Nicola, New York, N. Y. Treatment for pulmonary troubles and tuberculosis. No. 106,840; Nov. 2; Gaz. vol. 220; p. 343.
- Cincinnati Pump Company, Cincinnati, Ohio. Toy vehicles. No. 103,556; Apr. 6; Gaz. vol. 213; p. 355.
- Cincinnati Soap Co., The, Cincinnati, Ohio. Toilet soap. No. 104,931; June 29; Gaz. vol. 215; p. 1493.
- Cinelli & Sons, R. Signa, Italy, and New York, N. Y. Hats. No. 105,456; July 27; Gaz. vol. 216; p. 1313.
- Citro Chemical Co. of America, Maywood, N. J. Carbonated effervescent beverage made from citrus fruits. No. 105,648; Aug. 10; Gaz. vol. 217; p. 695.
- City Fuel Company, Chicago, Ill. Coal. No. 103,646; Apr. 13; Gaz. vol. 213; p. 739.
- City Iron Works & Machine Co., Philadelphia, Pa. Pressed-metal grease-cups, grease-guns, and fittings. No. 104,792; June 15; Gaz. vol. 215; p. 974.
- City of Hamburg Co. Inc., San Francisco, Cal. Certain named foods. No. 102,374; Feb. 9; Gaz. vol. 211; p. 634.
- Clark, Archibald C., New York, N. Y. Canned salmon, sardines, and herring. No. 105,582; Aug. 10; Gaz. vol. 217; p. 693.
- Clark, Chas. H., Westfield, Mass. Whips. No. 107,513; Dec. 7; Gaz. vol. 221; p. 346.
- Clark & Host Co., Milwaukee, Wis. Coffee. No. 165,155; July 6; Gaz. vol. 216; p. 324.
- Clark Paper and Manufacturing Company, Rochester, N. Y. Wheat-flour, bran, and middlings. No. 103,942; Apr. 20; Gaz. vol. 213; p. 1114.
- Clark Rubber Manufacturing Co., Franklin, Mass. Soles and heels of shoes. No. 103,557; Apr. 6; Gaz. vol. 213; p. 355.
- Clark, Sarah W., New York, N. Y. Pianos. No. 102,706; Feb. 23; Gaz. vol. 211; p. 1256.
- Clark Thread Co., The, Newark, N. J. Sewing-cotton or cotton thread. No. 106,563; Oct. 26; Gaz. vol. 219; p. 1227.
- Clarke Manufacturing Company, F. and J., Chicago, Ill. Ladies' sanitary napkins. No. 105,809; Aug. 17; Gaz. vol. 217; p. 1052.
- Clausen-Flanagan Brewery, New York, N. Y. Beer. No. 103,256; Mar. 23; Gaz. vol. 212; p. 1354.
- Clauson Shoe Co., Rutland, Vt. Boots, shoes, slippers, and rubbers. No. 103,224; Mar. 23; Gaz. vol. 212; p. 1353.
- Clay-Gunnell Co., The, Catlettsburg, Ky. Boots, shoes, and slippers. No. 106,408; Oct. 19; Gaz. vol. 219; p. 923.
- Cleffon Company, The, Owatonna, Minn. Gas-generators. No. 102,917; Mar. 2; Gaz. vol. 212; p. 324.
- Clements Mfg. Co., Chicago, Ill. Carpet-sweepers and vacuum-cleaners. No. 103,198; Mar. 23; Gaz. vol. 212; p. 1353.
- Clemetsen Company, The, Chicago, Ill. Desks, tables, stands, cabinets, and parts thereof. Nos. 105,717-18; Aug. 17; Gaz. vol. 217; p. 1049.
- Cleveland Foundry Co., The, Cleveland, Ohio. Broilers, toasters, and pancake-griddles. No. 104,961; June 29; Gaz. vol. 215; p. 1494.
- Cleveland Fruit Juice Co., The, Cleveland, Ohio. Grape-juice. No. 105,527; Aug. 3; Gaz. vol. 217; p. 335.
- Cleveland Metal Products Company, The, Cleveland, Ohio. Aluminum ware. No. 102,510; Feb. 9; Gaz. vol. 211; p. 638.
- Cleveland Worsted Mills Co., The, Cleveland, Ohio. Woolen piece goods. No. 106,410; Oct. 19; Gaz. vol. 219; p. 923.
- Clicquot Club Company, Providence, R. I., and Mills, Mass. Ginger-ale, sarsaparilla, birch and root beers, &c. No. 106,144; Oct. 12; Gaz. vol. 219; p. 582.
- Clincher Automobile Tire Manufacturers' Association, Cleveland, Ohio. Vehicle wheel-rims. No. 104,905; June 22; Gaz. vol. 215; p. 1259.
- Clinchfield Coal Corporation, Dante, Va. Coal. No. 107,734; Dec. 28; Gaz. vol. 221; p. 1445.
- Clinton Metallic Paint Co., Franklin Springs, N. Y. Paints and paint colors and pigments. No. 106,217; Oct. 19; Gaz. vol. 219; p. 917.
- Clipper Belt Lacer Co., Grand Rapids, Mich. Belt hooks, fasteners, and pins. No. 106,741; Oct. 26; Gaz. vol. 219; p. 1233.
- Clisby, Mattie, Birmingham, Ala. Hair salves and tonics. No. 101,917; Jan. 19; Gaz. vol. 210; p. 1059.
- Clough, Firm of Robert. Keighley, England. Worsted piece goods. No. 106,566; Oct. 26; Gaz. vol. 219; p. 1227.
- Clover Manufacturing Company, The, Cincinnati, Ohio. Liquid carbon-remover for internal-combustion engines. No. 105,494; July 27; Gaz. vol. 216; p. 1315.
- Clow, Oscar B., Seattle, Wash. Waffle compounds. No. 104,969; June 29; Gaz. vol. 215; p. 1494.
- Clucas, I. Hellmuth, St. Louis, Mo. Chemical preparation for opening stopped drain-pipes. No. 106,943; Nov. 9; Gaz. vol. 220; p. 669.
- Cluett, Peabody & Co., Inc., Troy, N. Y. Handkerchiefs. No. 103,092; Mar. 16; Gaz. vol. 212; p. 1052.
- Clyde Milling and Elevator Company, Clyde, Kans. Wheat-flour. No. 105,511; Aug. 3; Gaz. vol. 217; p. 335.
- Co-operative Drug Manufacturing Company, now by change of name American Drug Mfg. Co., Jackson, Tenn. Certain pharmaceutical preparation and remedies for certain named diseases. No. 104,596; June 8; Gaz. vol. 215; p. 661.
- Co-operative Drug Manufacturing Company, now by change of name American Drug Mfg. Co., Jackson, Tenn. Flavoring extracts and spices. No. 104,597; June 8; Gaz. vol. 215; p. 661.
- Co-operative Drug Manufacturing Company, now by change of name American Drug Mfg. Co., Jackson, Tenn. Flavoring extracts and spices. No. 104,598; June 8; Gaz. vol. 215; p. 661.
- Coast Fish Company, Anacortes, Wash. Canned salmon. No. 103,225; Mar. 23; Gaz. vol. 212; p. 1354.
- Coast Fishing Co., Inc., Los Angeles, Cal. Packed tuna. No. 102,627; Feb. 16; Gaz. vol. 211; p. 953.
- Coast Products Co., The, St. Louis, Mo. Canned vegetables, dried and jarred fruits. No. 107,677; Dec. 21; Gaz. vol. 221; p. 1035.
- Coates, William, New York, N. Y. Cleaning, dressing, and polishing liquids for footwear, belts, harness, &c. No. 106,409; Oct. 19; Gaz. vol. 219; p. 923.
- Cobb Preserving Company, Fairport, N. Y. Canned fruits, including berries, and canned vegetables. No. 102,255; Feb. 2; Gaz. vol. 211; p. 279.
- Cochrane, Harry A. (See Schwartzman, Samuel, assignor.)

Alphabetical list of registrants of trade-marks—Continued.

- Cohen, Goldman & Co., New York, N. Y. Certain named clothing. No. 102,961; Mar. 9; Gaz. vol. 212; p. 685.
- Cohen, Goldman & Co., New York, N. Y. Certain named clothing for men, ladies, and children. No. 104,167; May 4; Gaz. vol. 214; p. 340.
- Cohen, H. and A. L., Indianapolis, Ind. Knitted hosiery and underwear. No. 101,831; Jan. 12; Gaz. vol. 210; p. 712.
- Cohen, Jacob, Troy, N. Y. Remedy for rheumatism. No. 103,257; Mar. 23; Gaz. vol. 212; p. 1355.
- Cohen, Jacob J., Chicago, Ill. Hosiery. No. 107,514; Dec. 7; Gaz. vol. 221; p. 346.
- Cohn, J. & M., New York, N. Y. Collars. No. 104,443; June 1; Gaz. vol. 215; p. 317.
- Cohn, Laurence I., New York, N. Y. Jewelry. No. 103,093; Mar. 16; Gaz. vol. 212; p. 1052.
- Cohn, Rissman & Company, Chicago, Ill. Men's, youths', and children's coats, vests, trousers, overcoats, and bal-macans. No. 102,600; Feb. 16; Gaz. vol. 211; p. 952.
- Colchester Rubber Company, Colchester, Conn., assignor to United States Rubber Company, New Brunswick, N. J. Rubber boots and shoes. No. 106,567; Oct. 26; Gaz. vol. 219; p. 1228.
- Cole Brothers Lightning Rod Company, St. Louis, Mo. Lightning-rods, lightning-rod parts, fixtures, points, and ornaments. Nos. 104,530-31; June 1; Gaz. vol. 215; p. 320.
- Coleman, Elnathan W., Canton, Ga. Medicine for certain named ailments and diseases. No. 102,601; Feb. 16; Gaz. vol. 211; p. 952.
- Coleman Foundry Equipment Company, The, Cleveland, Ohio. Certain named metal-foundry devices. No. 106,568; Oct. 26; Gaz. vol. 219; p. 1228.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Toilet soap. No. 104,416; May 25; Gaz. vol. 214; p. 1317.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Perfumes, perfumed powders, and toilet waters. No. 105,040; July 6; Gaz. vol. 216; p. 321.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Soda for washing and scouring uses. No. 105,481; July 27; Gaz. vol. 216; p. 1314.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Cold and massage creams. No. 106,218; Oct. 19; Gaz. vol. 219; p. 917.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Toilet and laundry soap. No. 106,411; Oct. 19; Gaz. vol. 219; p. 924.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Toilet and laundry soap. No. 106,743; Oct. 26; Gaz. vol. 219; p. 1233.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Soaps and soap chips. No. 107,777; Dec. 28; Gaz. vol. 221; p. 1446.
- Collins Company, San Antonio, Tex. Certain named foods. No. 107,572; Dec. 14; Gaz. vol. 221; p. 731.
- Collins & Fairbanks Co., Boston, Mass. Hats, overcoats, gloves, caps, &c. No. 105,314; July 20; Gaz. vol. 216; p. 1007.
- Collins, George W., Coffeyville, Kans. Cough-syrup and hair-tonic. No. 102,256; Feb. 2; Gaz. vol. 211; p. 279.
- Collis, Henry J., Taunton, Mass. Ankle and athletic supporters, wristbands. No. 103,340; Mar. 30; Gaz. vol. 212; p. 1685.
- Collis, Henry J., Taunton, Mass. Athletic ankle-supporters and wristbands. No. 104,300; May 18; Gaz. vol. 214; p. 1021.
- Colman, Juliette H. J., Boston, Mass. Ingredients which when combined produce flavored gelatin. No. 102,058; Jan. 26; Gaz. vol. 210; p. 1388.
- Colonial Works, Brooklyn, N. Y. Leather-dressings. No. 106,219; Oct. 19; Gaz. vol. 219; p. 918.
- Colorado Portland Cement Company, The, Denver, Colo. Portland cement and lime. No. 102,559; Feb. 16; Gaz. vol. 211; p. 951.
- Colorado Potato Flake and Mfg. Co., The, Denver, Colo. Saratoga chips. No. 107,416; Nov. 23; Gaz. vol. 220; p. 1370.
- Columbia Chemical Company, The, Pittsburgh, Pa. Soda-ash. No. 102,962; Mar. 9; Gaz. vol. 212; p. 685.
- Columbia Guano Co., Norfolk, Va. Fertilizers. No. 102,375; Feb. 9; Gaz. vol. 211; p. 634.
- Columbia Guano Co., Norfolk, Va. Fertilizers. No. 103,199; Mar. 23; Gaz. vol. 212; p. 1353.
- Columbia Guano Co., Norfolk, Va. Fertilizers. No. 104,321; May 18; Gaz. vol. 214; p. 1022.
- Columbia Guano Co., Norfolk, Va. Fertilizers. Nos. 105,102-5; July 6; Gaz. vol. 216; p. 323.
- Columbia Guano Co., Norfolk, Va. Fertilizers. Nos. 107,241-3; Nov. 16; Gaz. vol. 220; p. 1038.
- Columbia Knitting Mills, Inc., New York, N. Y. Knit sweater-coats, Cardigan jackets, and bathing-suits. No. 103,021; Mar. 16; Gaz. vol. 212; p. 1050.
- Columbia Rope Company, Auburn, N. Y. Twine, rope, and cordage. No. 102,999; Mar. 16; Gaz. vol. 212; p. 1049.
- Columbia Shirt Company, New York, N. Y. Convertible negligee shirts. No. 102,257; Feb. 2; Gaz. vol. 211; p. 279.
- Columbia Star Milling Co., Columbia, Ill. Self-rising wheat-flour. Nos. 102,059-60; Jan. 26; Gaz. vol. 210; p. 1388.
- Columbia Star Milling Co., Columbia, Ill. Wheat-flour. No. 102,061; Jan. 26; Gaz. vol. 210; p. 1388.
- Columbia Star Milling Co., Columbia, Ill. Wheat-flour. No. 104,970; June 29; Gaz. vol. 215; p. 1494.
- Columbia Tool Steel Company, Chicago Heights, Ill. Rolled and hammered bars and forgings of high-speed steel. No. 104,378; May 25; Gaz. vol. 214; p. 1316.
- Columbia Tool Steel Company, Chicago Heights, Ill. Special grade of steel. No. 104,709; June 15; Gaz. vol. 215; p. 971.
- Columbus Dental Manufacturing Co., The, Columbus, Ohio. Ruga-molds. No. 103,417; Apr. 6; Gaz. vol. 213; p. 351.
- Colville, William, Santa Barbara, Cal. Silver and nickel polish. No. 105,974; Sept. 7; Gaz. vol. 218; p. 317.
- Comar & Cie., Paris, France. Antiseptic compound. No. 105,975; Sept. 7; Gaz. vol. 218; p. 317.
- Comfort Shock Absorber Co., Hempstead, N. Y. Shock-absorbers. No. 106,412; Oct. 19; Gaz. vol. 219; p. 924.
- Comings, Henry E., Summerstown, London, England. Powder for renovating spent foundry-sand. No. 103,873; Apr. 20; Gaz. vol. 213; p. 1112.
- Commercial Calculator Co., The, New York, N. Y. Circular slide-rules. No. 104,205; May 11; Gaz. vol. 214; p. 677.
- Commercial Milling Co., The, Detroit, Mich. Wheat-flour. No. 104,418; May 25; Gaz. vol. 214; p. 1317.
- Commonwealth Supply Company, New York, N. Y. Clothes-pounder. No. 104,067; Apr. 27; Gaz. vol. 213; p. 1443.
- Commonwealth Varnish Company, Chicago, Ill. Varnishes. No. 104,090; Apr. 27; Gaz. vol. 213; p. 1444.
- Compagnie fermière de l'Etablissement thermal de Vichy, Paris, France. Natural mineral waters. No. 103,778; Apr. 13; Gaz. vol. 213; p. 743.
- Compagnie Française de la Chamoiserie Nouvelle, Paris, France. Certain named baggage, horse equipments, portfolios, and pocket-books. No. 102,062; Jan. 26; Gaz. vol. 210; p. 1388.
- Compagnie Generale des Vins Mousseux de Saumur, Maison Ackerman-Laurance, St. Hilaire-St. Florent, France. Sparkling wines. No. 102,376; Feb. 9; Gaz. vol. 211; p. 634.
- Compostone Co., The, Grand Rapids, Mich. Composition-stone stucco, floorings, and linings. No. 103,048; Mar. 16; Gaz. vol. 212; p. 1050.
- Concordia Silk Hosiery Company, Inc., Philadelphia, Pa. Hosiery. No. 106,569; Oct. 26; Gaz. vol. 219; p. 1228.
- Conde, Claudio, Habana, Cuba. Mineral waters. No. 103,313; Mar. 30; Gaz. vol. 212; p. 1684.
- Condensed Bluing Company, Chicago, Ill. Bluing compound. No. 101,699; Jan. 5; Gaz. vol. 210; p. 395.
- Congdon, Albert S., North Yakima, Wash. Fresh fruits. No. 103,943; Apr. 20; Gaz. vol. 213; p. 1114.
- Connelt, Charles M., New York, N. Y. Soap. No. 105,957; Aug. 31; Gaz. vol. 217; p. 1657.
- Connorized Music Company, New York, N. Y. Perforated music-sheets for piano-players. No. 105,649; Aug. 10; Gaz. vol. 217; p. 695.
- Conradty, Firm of C., Nuremberg, Germany. Electrical and galvanic carbons. No. 104,532; June 1; Gaz. vol. 215; p. 320.
- Conradty, Firm of C., Nuremberg, Germany. Electrical and galvanic carbons. Nos. 104,793-4; June 15; Gaz. vol. 215; p. 974.
- Consolidated Expanded Metal Companies, The, Rankin, Pa. Bars for concrete reinforcement. No. 102,377; Feb. 9; Gaz. vol. 211; p. 634.
- Consolidated Fireworks Company of America, New York, N. Y. Fireworks. No. 104,932; June 29; Gaz. vol. 215; p. 1493.
- Consolidated Grocery Company, Tampa, Jacksonville, and Pensacola, Fla. Canned vegetables and fish, fruit, &c. No. 107,678; Dec. 21; Gaz. vol. 221; p. 1035.
- Consolidated Knitting and Spinning Mills, Reading, Pa. Men's half-hose. No. 102,678; Feb. 23; Gaz. vol. 211; p. 1255.
- Consolidated Safety Pin Co., Bloomfield, N. J. Safety-pins. No. 104,088; Apr. 27; Gaz. vol. 213; p. 1444.
- Consumers' Importing Company, Newark, N. J. Tea. No. 103,609; Apr. 6; Gaz. vol. 213; p. 357.
- Continental Asbestos Corporation, Worcester, Mass. Lubricants for gears of all kinds, compression-cups, and axles. No. 105,650; Aug. 10; Gaz. vol. 217; p. 695.
- Continental Brass and Foundries Co., St. Louis, Mo. Radiator-valves. No. 105,252; July 13; Gaz. vol. 216; p. 659.
- Continental Rubber Works, Erie, Pa. Certain named manufactured rubber goods. No. 104,206; May 11; Gaz. vol. 214; p. 677.
- Continental Rubber Works, Erie, Pa. Rubber bumpers, antirattlers, hand-grips, &c. No. 104,207; May 11; Gaz. vol. 214; p. 677.
- Continental Rubber Works, Erie, Pa. Friction fabric and insulating-tape. No. 104,208; May 11; Gaz. vol. 214; p. 677.
- Continental Rubber Works, Erie, Pa. Certain named dental, medical, and surgical appliances, bulbs, nipples, &c. No. 104,209; May 11; Gaz. vol. 214; p. 677.
- Continental Rubber Works, Erie, Pa. Rubber matting, stair-treads, printers' blankets, and hospital-sheeting. No. 104,210; May 11; Gaz. vol. 214; p. 677.

- Continental Rubber Works, Erie, Pa. Rubber mallets, type-writer platens, &c. No. 104,971; June 29; Gaz. vol. 215; p. 1494.
- Continental Rubber Works, Erie, Pa. Rubber tire-stock and sponges. No. 105,106; July 6; Gaz. vol. 216; p. 323.
- Continental Rubber Works, Erie, Pa. Games, toys, and sporting goods. No. 105,996; Sept. 14; Gaz. vol. 218; p. 599.
- Continental Rubber Works, Erie, Pa. Rubber heels and gloves. No. 105,997; Sept. 14; Gaz. vol. 218; p. 599.
- Continental Rubber Works, Erie, Pa. Rubber-hose connections, rubber-valve bases, &c. No. 106,841; Nov. 2; Gaz. vol. 220; p. 343.
- Converse & Son, Morton E., Winchendon, Mass. Construction-blocks. No. 107,515; Dec. 7; Gaz. vol. 221; p. 346.
- Conway, Elmer H., New York, N. Y. Non-alcoholic hair-dressing. No. 103,200; Mar. 23; Gaz. vol. 212; p. 1353.
- Cooley, Harry, Madison, Wis. Certain named oils and greases. No. 103,998; Apr. 27; Gaz. vol. 213; p. 1441.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Cal., and New York, N. Y. Ladies' knitted underwear. No. 104,417; May 25; Gaz. vol. 214; p. 1317.
- Cooper Medicine Co., The, Dayton, Ohio. Medical preparation used as a tonic. No. 104,379; May 25; Gaz. vol. 214; p. 1316.
- Cooper Medicine Company, The, assignor, by mesne assignments, to Tona Vita Medicine Company, Dayton, Ohio. Tonic, stimulant, general stomachic, &c. No. 104,828; June 22; Gaz. vol. 215; p. 1257.
- Cooper Mfg. Co., The, Bennington, Vt. Undershirts, drawers, and union suits. No. 106,570; Oct. 26; Gaz. vol. 219; p. 1228.
- Cooper & Osterhout, Watertown, N. Y. Liquid chemical preparation for cleaning and polishing vehicle-bodies. No. 102,679; Feb. 23; Gaz. vol. 211; p. 1255.
- Coppes Bros. & Zook, Nappanee, Ind. Kitchen-cabinets. No. 104,014; Apr. 27; Gaz. vol. 213; p. 1441.
- Corah & Sons, N., Leicester, England. Certain named clothing. No. 106,744; Oct. 26; Gaz. vol. 219; p. 1233.
- Corah & Sons, N., Leicester, England. Certain named clothing. No. 107,054; Nov. 9; Gaz. vol. 220; p. 673.
- Corkran Hill & Co., Baltimore, Md. Cooking-grease. No. 103,610; Apr. 6; Gaz. vol. 213; p. 357.
- Corliss Limb Specialty Co., Boston, Mass. Surgical appliance for sores and falling arches. No. 103,379; Mar. 30; Gaz. vol. 212; p. 1686.
- Corn Products Refining Co., New York, N. Y. Corn-starch. No. 102,064; Jan. 26; Gaz. vol. 210; p. 1388.
- Corn Products Refining Co., New York, N. Y. Starch for laundry and manufacturing purposes. No. 105,835; Aug. 24; Gaz. vol. 217; p. 1335.
- Corning Glass Works, Corning, N. Y. Lamp and lantern lenses for illuminating and signaling. No. 104,599; June 8; Gaz. vol. 215; p. 661.
- Corning Glass Works, Corning, N. Y. Glass. Nos. 107,244-6; Nov. 16; Gaz. vol. 220; p. 1038.
- Corno Mills Company, The, East St. Louis, Ill. Rolled oats. No. 106,072; Oct. 5; Gaz. vol. 219; p. 267.
- Cortland Auto Supply Co., Cortland, N. Y. Carbon-remover for the cylinders of internal-combustion engines. No. 107,055; Nov. 9; Gaz. vol. 220; p. 673.
- Coston Signal, New York, N. Y. Burning signal-lights. No. 101,919; Jan. 19; Gaz. vol. 210; p. 1059.
- Cotton Gathering Corporation, New York, N. Y. Cotton-gathering machinery. No. 104,068; Apr. 27; Gaz. vol. 213; p. 1443.
- Cottrell Saddlery Co., Inc., Richmond, Va. Harness, saddles, horse clothing and equipment. No. 105,041; July 6; Gaz. vol. 216; p. 321.
- Coughlin Bros., Syracuse, N. Y. Menthol cough-drops. No. 101,622; Jan. 5; Gaz. vol. 210; p. 393.
- Coursey & Munn, Atlanta, Ga. Remedy for diseases of the stomach, liver, and kidneys. No. 101,920; Jan. 19; Gaz. vol. 210; p. 1059.
- Courtaulds, Limited, London, England. Piece goods made from cellulose yarns. No. 103,748; Apr. 13; Gaz. vol. 213; p. 742.
- Courtaulds, Limited, London, England. Yarns made of cellulose. No. 103,749; Apr. 13; Gaz. vol. 213; p. 742.
- Couto & Co., Rio de Janeiro, Brazil. Salt. No. 106,146; Oct. 12; Gaz. vol. 219; p. 582.
- Covalt and Smith, Pittsburgh, Pa. Quinin hair-tonic. No. 104,933; June 29; Gaz. vol. 215; p. 1493.
- Coventry Premier, Limited, Coventry, England. Velocipedes, motor cycles and cars, cycle-cars. No. 105,719; Aug. 17; Gaz. vol. 217; p. 1049.
- Cox Confectionery Company, Boston, Mass. Candies. No. 106,842; Nov. 2; Gaz. vol. 220; p. 343.
- Craddock-Terry Company, Lynchburg, Va., and St. Louis, Mo. Leather shoes. Nos. 104,972-3; June 29; Gaz. vol. 215; p. 1494.
- Craddock-Terry Company, St. Louis, Mo. Leather shoes. No. 105,253; July 13; Gaz. vol. 216; p. 659.
- Craig, William D., Logansport, Ind. Sleeping-garments. No. 105,034; June 29; Gaz. vol. 215; p. 1496.
- Cramer, Robert B., Philadelphia, Pa. Oleomargarin. No. 104,211; May 11; Gaz. vol. 214; p. 677.
- Crandall, Robert, Middletown, N. Y. Ointment for inflammation of udders, caked udders, and splder-tent of cows. No. 101,700; Jan. 5; Gaz. vol. 210; p. 395.
- Crane & Co., Dalton, Mass. Writing-paper. Nos. 104,046-9; Apr. 27; Gaz. vol. 213; pp. 1442-3.
- Crane & Co., Dalton, Mass. Tracing-paper. No. 106,090; Oct. 12; Gaz. vol. 219; p. 581.
- Crary Pure Food Company, Waukesha, Wis. Canned vegetables. No. 102,065; Jan. 26; Gaz. vol. 210; p. 1388.
- Creese & Cook Co., Boston, Mass. Calfskins. No. 105,042; July 6; Gaz. vol. 216; p. 321.
- Crescent Belt Fastener Company, New York, N. Y. Belt-fastening plates and rivets for machinery-beltting. No. 102,628; Feb. 16; Gaz. vol. 211; p. 953.
- Crescent Calk Corporation, Syracuse, N. Y. Calks. No. 105,291; July 13; Gaz. vol. 216; p. 660.
- Cresson-Morris Company, Philadelphia, Pa. Steam-condensers. No. 107,415; Nov. 23; Gaz. vol. 220; p. 1370.
- Crestetto Bros. & Co., Oakland, Cal. Olive-oil. No. 107,549; Dec. 7; Gaz. vol. 221; p. 347.
- Crew Levick Company, Philadelphia, Pa. Wool and lubricating oils, gasoline, &c. No. 103,094; Mar. 16; Gaz. vol. 212; p. 1052.
- Crex Carpet Company, New York, N. Y. Grass furniture. No. 107,154; Nov. 16; Gaz. vol. 220; p. 1035.
- Croll & Son, Jesse G., Philadelphia, Pa. Polish for furniture, floors, vehicle-bodies, &c., of wood. No. 106,146; Oct. 12; Gaz. vol. 219; p. 582.
- Cronin, William L., Springfield, Mass. Cleaners for boiler-flues or soot-cleaners. No. 105,976; Sept. 7; Gaz. vol. 218; p. 317.
- Cronk-Salter Company, New York, N. Y. Water-closet toilet-bowls. No. 103,201; Mar. 23; Gaz. vol. 212; p. 1353.
- Crookes Colloids Limited, London, England. Chemical substance having germicidal qualities adapted for certain named purposes. No. 103,283; Mar. 30; Gaz. vol. 212; p. 1683.
- Crosse & Blackwell, Limited, London, England. Anchovies, pies, patties, &c. No. 103,689; Apr. 13; Gaz. vol. 213; p. 740.
- Crouch Brothers Company, Erie, Pa. Wheat-flour. No. 105,109; July 6; Gaz. vol. 216; p. 323.
- Crowe, John C., Detroit, Mich. Herb tablets. No. 107,315; Nov. 23; Gaz. vol. 220; p. 1367.
- Crown Bronze Powder Company, Minneapolis, Minn. Bronzing-powder. No. 104,322; May 18; Gaz. vol. 214; p. 1022.
- Crown Cork & Seal Co. of Baltimore City, The, Baltimore, Md. Artificial cork disks made therefrom, and bottle-closures of which said disks are a part. No. 104,419; May 25; Gaz. vol. 214; p. 1317.
- Crown Cork and Seal Co., Baltimore, Md. Closures for bottles and cork disks and washers therefor. No. 105,341; July 20; Gaz. vol. 216; p. 1008.
- Crown Willamette Paper Co., Portland, Me., and San Francisco, Cal. Paper bags. No. 106,414; Oct. 19; Gaz. vol. 219; p. 924.
- Crozer & Son, Samuel A., Upland, Pa. Cotton piece goods. No. 106,843; Nov. 2; Gaz. vol. 220; p. 343.
- Crucet, Joseph M., New York, N. Y. Certain named receptacles. No. 107,247; Nov. 16; Gaz. vol. 220; p. 1038.
- Cruver Manufacturing Company, Chicago, Ill. Toy pen-nants. No. 106,413; Oct. 19; Gaz. vol. 219; p. 924.
- Crystal Film Company, New York, N. Y. Motion-picture films. No. 104,817; June 15; Gaz. vol. 215; p. 974.
- Crystal Pharmacy, Quinton, Okla. Chili and liver tonics and antibilious pills. No. 104,360; May 25; Gaz. vol. 214; p. 1315.
- Crystal Spring Poultry Co., Oil City, Pa. Poultry for food. No. 102,707; Feb. 23; Gaz. vol. 211; p. 1256.
- Crystella Company. (See Girod, Ella, assignor.)
- Csilla Pharmacal Company, The, Garfield, N. J. Cough, rheumatic, and fever remedies, foot-powder, &c. No. 107,248; Nov. 16; Gaz. vol. 220; p. 1038.
- Csima, Julius, Lebanon, Pa. Medicinal preparation for cholera and other diseases of hogs. No. 106,298; Oct. 19; Gaz. vol. 219; p. 920.
- Cudahy Packing Company, The, Chicago, Ill. Washing-powder. No. 104,444; June 1; Gaz. vol. 215; p. 317.
- Cudahy Packing Company, Chicago, Ill. Toilet soap. No. 105,836; Aug. 24; Gaz. vol. 217; p. 1335.
- Cudahy Refining Company, The, Chicago, Ill. Lubricating oils and greases. No. 107,316; Nov. 23; Gaz. vol. 220; p. 1367.
- Culp, Jesse J., Warrensburg, Mo. Hog-worm remedy. No. 106,029; Sept. 14; Gaz. vol. 218; p. 600.
- Cultivator Publishing Company, Los Angeles, Cal. Weekly periodicals. No. 101,623; Jan. 5; Gaz. vol. 210; p. 393.
- Cultivator Publishing Company, Los Angeles, Cal. Monthly and weekly periodicals. No. 101,624; Jan. 5; Gaz. vol. 210; p. 393.
- Cumberland Fertilizer Co., Cartersville, Ga. Fertilizer. No. 103,808; Apr. 13; Gaz. vol. 213; p. 744.
- Cummins Auto Sales Co., The, Columbus, Ohio. Automobiles. No. 105,720; Aug. 17; Gaz. vol. 217; p. 1049.
- Cupid Blush Company, Baltimore, Md. Toilet preparation. No. 106,746; Oct. 26; Gaz. vol. 219; p. 1233.
- Curitite Company, Inc., The, West Hoboken, N. J. Salve. No. 101,772; Jan. 12; Gaz. vol. 210; p. 710.
- Current Literature Publishing Company, New York, N. Y. Monthly magazines. No. 105,837; Aug. 24; Gaz. vol. 217; p. 1335.

Alphabetical list of registrants of trade-marks—Continued.

- Currick, Leiken & Bandler, New York, N. Y. Cotton and wool piece goods. No. 105,506; July 27; Gaz. vol. 216; p. 1315.
- Curtis & Co. Mfg Co., Wellston, Mo. Certain named cutlery, tools, and machinery. No. 105,389; July 20; Gaz. vol. 216; p. 1009.
- Curtis & Marble Machine Company, Worcester, Mass. Certain named textile machinery. No. 106,299; Oct. 19; Gaz. vol. 219; p. 920.
- Curtis Olive Corporation, Bloomington and Los Angeles, Cal. Olives. No. 104,974; June 29; Gaz. vol. 215; p. 1494.
- Curtis Olive Corporation, Bloomington and Los Angeles, Cal. Olives. No. 107,604; Dec. 14; Gaz. vol. 221; p. 732.
- Curtis Publishing Company, Philadelphia, Pa. Periodical. No. 105,110; July 6; Gaz. vol. 216; p. 323.
- Cussins & Fearn Co., The, Columbus, Ohio. Pianos, organs, player-pianos, horns, &c. No. 104,934; June 29; Gaz. vol. 215; p. 1493.
- Cyclone Co., New York, N. Y. Carbon-remover. No. 104,866; June 22; Gaz. vol. 215; p. 1258.
- Cyclecar & Motorette. (See Kennedy, Robert S., assignor.)
- Cynthia Mills, East Boston, Mass. Cotton yarns. No. 107,736; Dec. 28; Gaz. vol. 221; p. 1445.
- D. A. B. Soap Company, Newton, Mass. Soap. No. 103,750; Apr. 13; Gaz. vol. 213; p. 742.
- D-D Screen Paint Company, New York, N. Y. Ready-mixed paint. No. 107,155; Nov. 16; Gaz. vol. 220; p. 1035.
- D. Engster Importing Company, Inc., The, New York, N. Y. Embroidery, threading, &c. machines, parts of same, &c. No. 106,045; Sept. 21; Gaz. vol. 218; p. 873.
- D. G. Cutler Company, Duluth, Minn. Common stock-salt. No. 104,669; June 8; Gaz. vol. 215; p. 663.
- D. G. Cutler Company, Duluth, Minn. Salt. Nos. 104,670-1; June 8; Gaz. vol. 215; p. 663.
- D. G. Cutler Company, Duluth, Minn. Medium salt. No. 104,672; June 8; Gaz. vol. 215; p. 663.
- D. G. Cutler Company, Duluth, Minn. Table, medium common, and granulated salt. No. 106,747; Oct. 26; Gaz. vol. 219; p. 1233.
- D. Ghirardelli Co., San Francisco, Cal. Eating-chocolate and chocolate candy. No. 106,424; Oct. 19; Gaz. vol. 219; p. 924.
- D. J. O'Brien Company, Omaha, Nebr. Candy. No. 102,809; Feb. 23; Gaz. vol. 211; p. 1259.
- D. & L. Slade Co., Boston, Mass. Baking-powder. No. 102,869; Feb. 23; Gaz. vol. 211; p. 1261.
- D. M. Oberman Mfg. Company, Jefferson City, Mo. Overalls, trousers, shirts, &c. No. 103,324; Mar. 30; Gaz. vol. 212; p. 1684.
- D-P-W Company, The, Akron, Ohio. Certain named paints and painters' materials. No. 102,648; Feb. 16; Gaz. vol. 211; p. 953.
- D'Emo, Basil, Chicago, Ill. Laxatives. No. 101,832; Jan. 12; Gaz. vol. 210; p. 712.
- Daggett & Ramsdell, New York, N. Y. Face-powder. No. 102,963; Mar. 9; Gaz. vol. 212; p. 685.
- Daggett & Ramsdell, New York, N. Y. Application for relief of certain named ailments and sickness. No. 195,156; July 6; Gaz. vol. 216; p. 324.
- Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Certain named vehicles and parts therefor. No. 101,773; Jan. 12; Gaz. vol. 210; p. 710.
- Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Certain named furniture and upholstery. No. 101,774; Jan. 12; Gaz. vol. 210; p. 710.
- Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Certain named hardware, plumbing and steam-fitting supplies. No. 103,611; Apr. 6; Gaz. vol. 213; p. 357.
- Daley, Jerome F., Bangor, Me. Tubercular tonic. No. 106,300; Oct. 19; Gaz. vol. 219; p. 920.
- Dallas County Community Clubs, Dallas, Tex. Eggs. No. 106,944; Nov. 9; Gaz. vol. 220; p. 669.
- Dalton Adding Machine Company, St. Louis, Mo., assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and combined adding and listing machines. No. 103,049; Mar. 16; Gaz. vol. 212; p. 1050.
- Dameron & Bro., W. A., Weems, Va. Canned vegetables and fish-roe. No. 102,239; Jan. 26; Gaz. vol. 210; p. 1394.
- Dan Talmage's Sons' Company, New York, N. Y. Rice-flour. No. 102,461; Feb. 9; Gaz. vol. 211; p. 637.
- Daniel, Charles A., Philadelphia, Pa. Rubber and pneumatic tires. No. 102,378; Feb. 9; Gaz. vol. 211; p. 634.
- Daniel, Charles A., Philadelphia, Pa. Rubber and pneumatic tires. No. 104,935; June 29; Gaz. vol. 215; p. 1493.
- Daniel Forbes Company, Chicago, Ill. Leather parts for shoes. No. 107,815; Dec. 28; Gaz. vol. 221; p. 1447.
- Daniel Green Felt Shoe Company, Boston, Mass., and Dolgeville, N. Y. Shoes and slippers of leather and felt. No. 104,301; May 18; Gaz. vol. 214; p. 1021.
- Daniel Green Felt Shoe Company, Boston, Mass., and Dolgeville, N. Y. Felt shoes and slippers. No. 104,600; June 8; Gaz. vol. 215; p. 661.
- Daniels Cornell Co., The, Manchester, N. H. Canned fruits and vegetables, pickles, tea. No. 107,249; Nov. 16; Gaz. vol. 220; p. 1038.
- Daniels Safety Device Co., Chicago, Ill. Nuts. No. 103,154; Mar. 16; Gaz. vol. 212; p. 1053.
- Daniels, William H., Ogdensburg, N. Y. Crackers. No. 105,409; July 20; Gaz. vol. 216; p. 1010.
- Daniels, William S., Detroit, Mich. Master-vibrators and sparking points. No. 105,189; July 13; Gaz. vol. 216; p. 657.
- Danish Butter Colour Co., Blauenfeldt & Trede, Copenhagen, Denmark. Butter-coloring materials, arnotto liquids, and cheese-reennets. No. 101,671; Jan. 5; Gaz. vol. 210; p. 394.
- Danish Butter Import Co., assignor to H. Goertz, New York, N. Y. Butter. No. 105,785; Aug. 17; Gaz. vol. 217; p. 1051.
- Danneberg & Quandt, Berlin, Germany. Certain named heating, lighting, and ventilating apparatus, not electrical. No. 102,830; Feb. 23; Gaz. vol. 211; p. 1260.
- Darbour, Lucienne C., Cleveland, Ohio. Toilet water. No. 103,258; Mar. 23; Gaz. vol. 212; p. 1355.
- Darling, O. F., Portland, Oreg. Weekly publication. No. 103,583; Apr. 6; Gaz. vol. 213; p. 356.
- Darragh Company, Little Rock, Ark. Certain named foods. No. 102,511; Feb. 9; Gaz. vol. 211; p. 638.
- Davenport Manufacturing Co., The, Davenport, Iowa. Rolling-presses. No. 104,144; May 4; Gaz. vol. 214; p. 339.
- David, Firm of J. B., St.-Etienne, France. Velvets. No. 102,259; Feb. 23; Gaz. vol. 211; p. 279.
- David, Firm of J. B., St.-Etienne, France. Velvets. No. 102,261; Feb. 23; Gaz. vol. 211; p. 279.
- Davidson, Henry, New York, N. Y. Envelops and notepaper. No. 105,043; July 6; Gaz. vol. 216; p. 321.
- Davies & Meacham, assignors to Patterson-Sargent Company, Cleveland, Ohio. Paints, lacs, stains, enamels, &c. Nos. 106,572-6; Oct. 26; Gaz. vol. 219; pp. 1228.
- Davies & Meacham, assignors to Patterson-Sargent Company, Cleveland, Ohio. Paints, lacs, stains, enamels, &c. Nos. 106,748-50; Oct. 26; Gaz. vol. 219; p. 1233.
- Davis Bros., Gloucester, Mass. Fresh, salted, smoked, pickled, and canned fish. No. 105,190; July 13; Gaz. vol. 216; p. 657.
- Davis Bros., Gloucester, Mass. Fresh, salted, smoked, pickled, and canned fish. No. 107,250; Nov. 16; Gaz. vol. 220; p. 1038.
- Davis & Geck, Inc., Brooklyn, N. Y. Surgical ligatures, sutures, threads, and tapes. No. 105,111; July 6; Gaz. vol. 216; p. 323.
- Davis, George W., Manorville, N. Y. Cranberries. No. 104,601; June 8; Gaz. vol. 215; p. 661.
- Davis, Harry R., Kansas City, Mo. Semiliquid or paste for the complexion. No. 106,301; Oct. 19; Gaz. vol. 219; p. 920.
- Davis Hosiery Mills, Chattanooga, Tenn. Hosiery. Nos. 103,095-6; Mar. 16; Gaz. vol. 212; p. 1052.
- Davis & Lawrence Company, New York, N. Y. Remedy for female ailments. No. 106,221; Oct. 19; Gaz. vol. 219; p. 918.
- Davis Manufacturing Co., New York, N. Y. Petticoats and underskirts. No. 107,317; Nov. 23; Gaz. vol. 220; p. 1367.
- Davis Shoe Company, Lynn, Mass. Leather boots and shoes. No. 106,751; Oct. 26; Gaz. vol. 219; p. 1233.
- Davis Shoe Company, Lynn, Mass. Leather boots and shoes. No. 107,737; Dec. 28; Gaz. vol. 221; p. 1445.
- Davis, William H., Crozet, Va. Hammocks. No. 106,577; Oct. 26; Gaz. vol. 219; p. 1228.
- Dawson, Thomas C., Orange, N. J. Liquid furniture-polish. No. 103,418; Apr. 6; Gaz. vol. 213; p. 351.
- Day, Emily D., New York, N. Y. Walnuts. No. 106,945; Nov. 9; Gaz. vol. 220; p. 669.
- Day, Walter L., Westfield, N. J. Lubricant. No. 102,890; Mar. 2; Gaz. vol. 212; p. 323.
- Daylock Corporation, The, New York, N. Y. Embossing-machines. No. 105,315; July 20; Gaz. vol. 216; p. 1007.
- Dborn Non-honing Pastostrop Co., New York, N. Y. Razor-strops and dressings. No. 107,441; Nov. 30; Gaz. vol. 220; p. 1715.
- De Armond, William C., Philadelphia, Pa. Certain named paints and painters' materials. Nos. 101,833-4; Jan. 12; Gaz. vol. 210; p. 712.
- De Boer, Jacob, Johnstown, N. Y. Certain kinds of baseballs, playground and indoor balls. No. 105,186; July 13; Gaz. vol. 216; p. 657.
- De Boer, Jacob, Johnstown, N. Y. Baseballs. No. 105,642; Aug. 10; Gaz. vol. 217; p. 695.
- De Cou Brothers Company, Philadelphia, Pa. Shoes and other footwear. No. 106,579; Oct. 26; Gaz. vol. 219; p. 1228.
- De Courcy, Paul, Cincinnati, Ohio. Suppositories. No. 105,687; Aug. 10; Gaz. vol. 217; p. 696.
- De Laval Steam Turbine Company, Trenton, N. J. Steam-turbines, centrifugal pumps and blowers, reduction-gears, &c. No. 105,191; July 13; Gaz. vol. 216; p. 657.
- De Laval Steam Turbine Co., Trenton, N. J. Steam-turbines, centrifugal pumps, and blowers, &c. No. 107,738; Dec. 28; Gaz. vol. 221; p. 1445.
- De Joigny Shaving Mist Co., San Francisco, Cal. Liquid substitute for shaving-soap. No. 103,227; Mar. 23; Gaz. vol. 212; p. 1354.

- De Jong, Firm of De Erve H., Wormerveer, near Amsterdam, and Tribuswinkel, near Weenen, Netherlands. Chocolate. No. 102,681; Feb. 23; Gaz. vol. 211; p. 1255.
- De Martino, F., Altoona, Pa. Scalp and hair tonics. No. 106,649; Oct. 26; Gaz. vol. 219; p. 1230.
- De Pree Chemical Company, The, Holland, Mich. Liquid furniture-polish. No. 103,259; Mar. 23; Gaz. vol. 212; p. 1355.
- De Pree Chemical Company, The, Holland, Mich. Bronchial remedy, diuretic elixir, eczema-lotion, &c. No. 106,042; Sept. 21; Gaz. vol. 218; p. 873.
- De Pree Chemical Company, The, Holland, Mich. Certain named pharmaceutical preparations. No. 106,222; Oct. 19; Gaz. vol. 219; p. 918.
- De Roo Sons, P., Cincinnati, Ohio. Mops. No. 104,711; June 15; Gaz. vol. 215; p. 971.
- De Tullio, Alfonso, Youngstown, Ohio. Tonic reconstituent digestive antimalarial. No. 104,906; June 22; Gaz. vol. 215; p. 1259.
- De Vilbiss Manufacturing Company, The, Toledo, Ohio. Atomizers and nebulizers. No. 102,068; Jan. 26; Gaz. vol. 210; p. 1389.
- De Vilbiss Manufacturing Company, The, Toledo, Ohio. Painting-booths. No. 102,743; Feb. 23; Gaz. vol. 211; p. 1257.
- De Vilbiss Manufacturing Co., The, Toledo, Ohio. Surface-coating apparatus of a spray type. No. 104,581; June 1; Gaz. vol. 215; p. 321.
- De Vilbiss Manufacturing Company, The, Toledo, Ohio. Compression-bulbs. No. 106,416; Oct. 19; Gaz. vol. 219; p. 924.
- Dean & Co., Ltd., Ann Arbor, Mich. Baking-powder. No. 107,056; Nov. 9; Gaz. vol. 220; p. 673.
- Dean-Hicks Company, The, Grand Rapids, Mich. Magazines published monthly. No. 106,578; Oct. 26; Gaz. vol. 219; p. 1228.
- Deaver-Kennedy Company, Knoxville, Tenn. Men's and boys' laundered and work shirts and men's flannel shirts. No. 105,911; Aug. 24; Gaz. vol. 217; p. 1337.
- Decatur Fertilizer Co., Decatur, Ala. Fertilizer. No. 102,512; Feb. 9; Gaz. vol. 211; p. 638.
- Decker & Cohn, Alfred, Chicago, Ill. Overcoats. No. 103,891; Apr. 20; Gaz. vol. 213; p. 1112.
- Deere & Company, Moline, Ill. Cultivator-shovels. No. 103,847; Apr. 20; Gaz. vol. 213; p. 1111.
- Defiance Manufacturing Company, Philadelphia, Pa. Metallic paper-clips. No. 102,379; Feb. 9; Gaz. vol. 211; p. 634.
- Defiance Oil Company, The, El Reno, Okla. Lubricating oils and greases. No. 107,156; Nov. 16; Gaz. vol. 220; p. 1035.
- Defiance Sock Mills, Charlotte, N. C. Hosiery. No. 105,316; July 20; Gaz. vol. 216; p. 1007.
- Deignan, John F., *et al.*, executors. (See Deignan, Richard.)
- Deignan, R. C., *et al.*, executors. (See Deignan, Richard.)
- Deignan, Richard, deceased; R. C. and J. F. Deignan, executors, Columbus, Ga. Honey and cane-syrup. No. 104,447; June 1; Gaz. vol. 215; p. 317.
- Del Castillo & Company, Rafael, New York, N. Y. Cotton piece goods. No. 105,647; Aug. 10; Gaz. vol. 217; p. 695.
- Delacour Brothers, Limited, West Kilburn, London, England. Tobacco-pipes and cigar and cigarette holders. No. 105,343; July 20; Gaz. vol. 216; p. 1008.
- Delaney & Co., J. M., New York, N. Y. Sole-leather. No. 106,030; Sept. 14; Gaz. vol. 218; p. 600.
- Dellon Tire & Rubber Company, Trenton, N. J., and New York, N. Y. Rubber tires. No. 107,251; Nov. 16; Gaz. vol. 220; p. 1038.
- Delson Chemical Company, Inc., The, New York, N. Y. Preparation for lung, throat, and intestinal diseases. No. 107,778; Dec. 28; Gaz. vol. 221; p. 1446.
- Deming, Clark E., Cortland, Nehr. Medical compound for hog-cholera. No. 102,262; Feb. 2; Gaz. vol. 211; p. 279.
- Denby Motor Truck Company, Detroit, Mich. Motor trucks, bodies, chassis, and running-gear. No. 106,302; Oct. 19; Gaz. vol. 219; p. 920.
- Denison Coffee Co., Chicago, Ill. Coffee. No. 106,415; Oct. 19; Gaz. vol. 219; p. 924.
- Denison Coffee Co., Chicago, Ill. Coffee. No. 106,844; Nov. 2; Gaz. vol. 220; p. 343.
- Denison Coffee Co., Chicago, Ill. Coffee. No. 107,840; Dec. 28; Gaz. vol. 221; p. 1448.
- Denison & Company, Chicago, Ill. Coffee. No. 104,602; June 8; Gaz. vol. 215; p. 661.
- Denney Tag Company, The, West Chester, Pa. Tags. No. 102,629; Feb. 16; Gaz. vol. 211; p. 953.
- Denney Tag Company, West Chester, Pa. Tags. No. 102,831; Feb. 23; Gaz. vol. 211; p. 1260.
- Dennie, Frank B., Minneapolis, Minn. Calf-foed compound. No. 102,066; Jan. 26; Gaz. vol. 210; p. 1388.
- Dennison Manufacturing Company, Boston, Mass. Certain named paper and stationery supplies. No. 104,710; June 15; Gaz. vol. 215; p. 971.
- Dennis Manufacturing Company, The, Sutter Creek, Cal. Ointment. No. 107,157; Nov. 16; Gaz. vol. 220; p. 1035.
- Dentists' Supply Company, The, New York, N. Y. Artificial teeth. No. 103,022; Mar. 16; Gaz. vol. 212; p. 1050.
- Derma Viva Company, Chicago, Ill. Hair-tonic, depilatories, cold-cream, and face-powders. No. 102,067; Jan. 26; Gaz. vol. 210; p. 1389.
- Dernburg & Son, Carl, Chicago, Ill. Collarets. No. 102,069; Jan. 26; Gaz. vol. 210; p. 1389.
- Desmond, Bertrand G., Muncie, Ind. Lubricating-oils and lubricants. No. 104,603; June 8; Gaz. vol. 215; p. 661.
- Dessert, Alexander E., New York, N. Y. Remedy for piles. No. 102,682; Feb. 23; Gaz. vol. 211; p. 1255.
- Detroit Electric Welder Company, Detroit, Mich. Electric spot, butt, and seam welders. No. 104,089; Apr. 27; Gaz. vol. 213; p. 1444.
- Detroit Fuse & Manufacturing Company, Detroit, Mich. Fuses, switches, cut-outs, clips, &c. No. 103,050; Mar. 16; Gaz. vol. 212; p. 1050.
- Detroit Graphite Co., Detroit, Mich. Mixed paints. No. 104,251; May 11; Gaz. vol. 214; p. 678.
- Detroit Insulated Wire Company, Detroit, Mich. Insulated electric wires. Nos. 105,254-5; July 13; Gaz. vol. 216; p. 659.
- Detroit Refrigerator Grip Co., Detroit, Mich. Satchels, hand-bags, suitcases, &c. No. 101,835; Jan. 12; Gaz. vol. 210; p. 712.
- Detroit Stove Works, Detroit, Mich. Certain named electrical apparatus and supplies. No. 105,528; Aug. 3; Gaz. vol. 217; p. 335.
- Deuth, Eugene J., New York, N. Y. Incandescent bulbs. No. 104,252; May 11; Gaz. vol. 214; p. 678.
- Deutsche Conservierungsgesellschaft mit beschränkter Haftung, Marienfelde, near Berlin, Germany. Preservative coating material. No. 103,380; Mar. 30; Gaz. vol. 212; p. 1686.
- Deutsche Gasgluehlicht Aktiengesellschaft (Auergesellschaft), Berlin, Germany. Electric incandescent lamps and their parts. No. 105,192; July 13; Gaz. vol. 216; p. 657.
- Devonshire Mills Co., Inc., New York, N. Y. Cotton and silk and cotton goods in the piece. No. 106,845; Nov. 2; Gaz. vol. 220; p. 343.
- Dexter Yarn Company, Pawtucket, R. I. Yarns and threads. No. 103,612; Apr. 6; Gaz. vol. 213; p. 357.
- Dextrogermoform Propagating Co., Plymouth, Mass. Chemical preparations for fertilizing and treating vegetation. No. 106,223; Oct. 19; Gaz. vol. 219; p. 918.
- Diamond Carburetor Company, Inc., Jersey City, N. J. Carburetor. No. 106,091; Oct. 12; Gaz. vol. 213; p. 581.
- Diamond Chemical Co., Brooklyn, N. Y. Emulsifier. No. 101,672; Jan. 5; Gaz. vol. 210; p. 394.
- Diamond Chemical Co., Brooklyn, N. Y. Laxative. No. 101,836; Jan. 12; Gaz. vol. 210; p. 712.
- Diamond Mill Company, The, Sherman, Tex. Wheat-flour. No. 107,318; Nov. 23; Gaz. vol. 220; p. 1367.
- Diamond Remedy Co., Brooklyn, N. Y. Throat-pastils. No. 103,892; Apr. 20; Gaz. vol. 213; p. 1112.
- Diamond State Fibre Co., Elsmere, Del. Fiber sheets, rods, tubes, and disks. No. 103,419; Apr. 6; Gaz. vol. 213; p. 351.
- Dick, John W., New York, N. Y. Dolls. No. 105,044; July 6; Gaz. vol. 216; p. 321.
- Dickey, Adam H., *et al.*, trustees. (See Eddy, Mary B. G.)
- Dickey & McMaster, Philadelphia, Pa. Textile rugs. No. 104,253; May 11; Gaz. vol. 214; p. 678.
- Diehl, Edward, Nashville, Tenn. Non-alcoholic carbonated beverages. No. 104,050; Apr. 27; Gaz. vol. 213; p. 1443.
- Diener and Urban, Milwaukee, Wis. Remedy for the heart, indigestion, coughs, and rheumatism. No. 102,708; Feb. 23; Gaz. vol. 211; p. 1256.
- Dieseldorff, Erwin P., Berlin, Germany. Inhalation apparatuses. No. 102,937; Mar. 2; Gaz. vol. 212; p. 324.
- Dieter Nut Company, New York, N. Y. Nuts, lock-nuts, and nut-locks. No. 107,158; Nov. 16; Gaz. vol. 220; p. 1035.
- Dietz Baking Company, The, Holyoke and Springfield, Mass. Cake, pies, and doughnuts. No. 106,580; Oct. 26; Gaz. vol. 219; p. 1228.
- Dillberger, Frederick C., Los Angeles, Cal. Remedy for diseases of females. No. 103,558; Apr. 6; Gaz. vol. 213; p. 356.
- Dill Medicine Company, The, Norristown, Pa. Cough-syrup. No. 107,754; Dec. 28; Gaz. vol. 221; p. 1445.
- Dillingham, Frank A., Cincinnati, Ohio. Liquid preparation for use as a tonic and remedy for stomach and blood troubles. No. 106,224; Oct. 19; Gaz. vol. 219; p. 918.
- Dilsizian Bros., New York, N. Y. Refined petroleum. Nos. 104,604-5; June 8; Gaz. vol. 215; p. 661.
- Dilsizian Bros., New York, N. Y. Cotton piece goods. No. 105,512; Aug. 3; Gaz. vol. 217; p. 335.
- Ditmore, John V., *et al.*, trustees. (See Eddy, Mary B. G.)
- Divine & Sons, Dwight, Ellenville, N. Y. Pocket and pen knives. No. 103,647; Apr. 13; Gaz. vol. 213; p. 739.
- Doan, Wm. C., Zanesville, Ohio. Nerve-tonic. No. 103,341; Mar. 30; Gaz. vol. 212; p. 1685.
- Dodd, William E., New York, N. Y. Ribbons. No. 106,581; Oct. 26; Gaz. vol. 219; p. 1228.
- Dodge Brothers, Detroit, Mich. Automobiles. No. 103,779; Apr. 13; Gaz. vol. 213; p. 743.

Alphabetical list of registrants of trade-marks—Continued.

- Dodge, M. Hartley, New York, N. Y. Lubricating-oils. No. 101,924; Jan. 19; Gaz. vol. 210; p. 1060.
- Dodge, Otis W., New York, N. Y. Apparatus for removing water of condensation from cylinders. No. 101,925; Jan. 19; Gaz. vol. 210; p. 1060.
- Doebel, Friedrich W., Philadelphia, Pa. Hair-tonic. No. 103,051; Mar. 16; Gaz. vol. 212; p. 1050.
- Doehler Die Casting Co., New York, N. Y. Metal alloy and castings made therefrom. No. 104,795; June 15; Gaz. vol. 215; p. 974.
- Doherty Co., James J., Boston, Mass. Whisky. No. 107,469; Dec. 7; Gaz. vol. 221; p. 345.
- Dollfus-Mieg & Cie. Société anonyme, Mulhouse, Germany. Threads, yarns. No. 102,264; Feb. 2; Gaz. vol. 211; p. 279.
- Dollfus Mieg & Cie. Société anonyme, Mulhouse, Germany. Alsatian braids. No. 102,265; Feb. 2; Gaz. vol. 211; p. 279.
- Dollfus Mieg & Cie. Société anonyme, Mulhouse, Germany. Braids and passementerie. No. 102,266; Feb. 2; Gaz. vol. 211; p. 279.
- Dollfus-Mieg & Cie. Société anonyme, Mulhouse, Germany. Threads and twists. No. 102,267; Feb. 2; Gaz. vol. 211; p. 279.
- Dollfus Mieg & Cie. Société anonyme, Mulhouse, Germany. Braids and passementerie. Nos. 102,268-9; Feb. 2; Gaz. vol. 211; p. 279.
- Dolly Varden Chocolate Co., The, Cincinnati, Ohio. Chocolates. No. 102,513; Feb. 9; Gaz. vol. 211; p. 638.
- Domestic Flour Milling Co., Kansas City, Mo. Stock food. No. 102,832; Feb. 23; Gaz. vol. 211; p. 1260.
- Domino Motion Picture Corporation, New York, N. Y. Moving-picture films. No. 107,841; Dec. 28; Gaz. vol. 221; p. 1448.
- Donaldson and Donaldson, Decatur, Ill. Mixed paints. No. 104,212; May 11; Gaz. vol. 214; p. 677.
- Donnelly, Effingham N., New York, N. Y. Cement. No. 102,071; Jan. 26; Gaz. vol. 210; p. 1389.
- Dore, Cornelius W., San Jose, Cal. Certain pharmaceutical preparations for toilet use. No. 102,072; Jan. 26; Gaz. vol. 210; p. 1389.
- Double Tread Tire Company, Inc., New York, N. Y. Automobile rubber tires. No. 104,533; June 1; Gaz. vol. 215; p. 320.
- Doubleday, Page & Company, Garden City, N. Y. Magazine-catalogue issued annually. No. 103,874; Apr. 20; Gaz. vol. 213; p. 1112.
- Douchinol Company, New York, N. Y. Antiseptic cleansers exemplified by a preparation used as a douche. No. 102,785; Feb. 23; Gaz. vol. 211; p. 1258.
- Douglass, John W., Philadelphia, Pa., assignor to Protective "Fredo" Stopples Company, Dover, Del. Glass bottles. No. 102,329; Feb. 9; Gaz. vol. 211; p. 633.
- Douglass, John W., Philadelphia, Pa., assignor to Protective "Fredo" Stopples Company, Dover, Del. Porcelain, glass, or vitreous ware and metal stopples for bottles. No. 104,796; June 15; Gaz. vol. 215; p. 974.
- Downer, Ernest R., Aurora, Ill. Certain named pharmaceutical preparations for toilet purposes. No. 105,256; July 13; Gaz. vol. 216; p. 659.
- Downing, Louis L., New York, N. Y. Bread. No. 106,946; Nov. 9; Gaz. vol. 220; p. 669.
- Downing Taylor Co., Springfield, Mass. Certain named foods. No. 102,270; Feb. 2; Gaz. vol. 211; p. 279.
- Doyle-Kidd Dry Goods Co., Little Rock, Ark. Cotton piece goods. No. 103,097; Mar. 16; Gaz. vol. 212; p. 1052.
- Dr. Fritz Pollak G. m. b. H., Berlin, Germany. Condensation products of phenol and formaldehyde. No. 103,972; Mar. 16; Gaz. vol. 212; p. 1051.
- Dr. Leonhardt Co., Buffalo, N. Y. Medicinal preparations used in the treatment of the upper air-passages. No. 103,241; Mar. 23; Gaz. vol. 212; p. 1354.
- Drachmann Piano Co., Chicago, Ill. Pianos and player-pianos. No. 106,031; Sept. 14; Gaz. vol. 218; p. 600.
- Dreifein, Frank W., Chicago, Ill. Compound to be added to clothes-starch to perfume same and to prevent iron from sticking. No. 104,673; June 8; Gaz. vol. 215; p. 663.
- Drew Electric and Manufacturing Company, Indianapolis, Ind. Certain named electrical apparatus and supplies. No. 105,810; Aug. 17; Gaz. vol. 217; p. 1052.
- Drezwell Co., Inc., New York, N. Y. Outing costume. No. 107,755; Dec. 28; Gaz. vol. 221; p. 1445.
- Driscoll, Church & Hall, New Bedford, Mass. Certain named foods. No. 106,753; Oct. 26; Gaz. vol. 219; p. 1233.
- Droeschner, Severen R., New York, N. Y. Razors, shears, scissors, and pocket-knives. No. 102,073; Jan. 26; Gaz. vol. 210; p. 1389.
- Drug Products Co., Inc., New York, N. Y. Medicinal tablets. No. 106,847; Nov. 2; Gaz. vol. 220; p. 343.
- Druggists' Supply Corporation, New York, N. Y. Certain named rubber goods and surgical appliances. No. 106,417; Oct. 19; Gaz. vol. 219; p. 924.
- Druggists' Supply Corporation, New York, N. Y. Brushes. No. 106,947; Nov. 9; Gaz. vol. 220; p. 669.
- Du Rouchet, Isabelle, near Toledo, Ohio. Natural mineral water. No. 106,291; Oct. 19; Gaz. vol. 219; p. 920.
- Du Mor Specialty Co., Cincinnati, Ohio. Polish and cleaner for furniture, pianos, automobiles, &c. No. 104,829; June 22; Gaz. vol. 215; p. 1257.
- Dubiez, Antoine, Etampes, France. Prepared or treated felts. No. 101,701; Jan. 5; Gaz. vol. 210; p. 395.
- Dudok van Heel, Sebastien A. C., Naarden, Netherlands. Condensed milk. No. 107,018; Nov. 9; Gaz. vol. 220; p. 672.
- Dudok van Heel, Sebastien A. C., Naarden, Netherlands. Condensed milk. No. 107,639; Dec. 14; Gaz. vol. 221; p. 753.
- Duffy, Thomas J., New York, N. Y. Stain-remover. No. 103,841; Apr. 13; Gaz. vol. 213; p. 745.
- Duggan, Timothy A., New Orleans, La. Stomach-tablets and intestinal eliminants. No. 102,271; Feb. 2; Gaz. vol. 211; p. 279.
- Dukes, Isadore M., Knox, Ind. Rheumatic remedies. No. 102,964; Mar. 9; Gaz. vol. 212; p. 685.
- Duluth Candy Co., Duluth, Minn. Candy. No. 101,926; Jan. 19; Gaz. vol. 210; p. 1060.
- Duluth-Superior Milling Company, Duluth, Minn. Wheat-flour. No. 104,000; Apr. 27; Gaz. vol. 213; p. 1441.
- Dunbar, Arthur, South Melbourne, Victoria, Australia. Refractory preparation or composition of a plastic or liquid consistency. No. 105,977; Sept. 7; Gaz. vol. 218; p. 317.
- Duncan Bros. Mop Co., Chicago, Ill. Mops. No. 107,319; Nov. 23; Gaz. vol. 220; p. 1367.
- Dunchead Company, The, Chicago, Ill. Liquid hair-grower, hair-tonic, and dandruff-destroyer. No. 105,945; July 6; Gaz. vol. 216; p. 321.
- Dunham, James R., Wenona, Ill. Umbilical-cord and veterinary-surgeon ligatures and sportsmen's sterile cord. No. 107,442; Nov. 30; Gaz. vol. 220; p. 1715.
- Dunlop Milling Co., The, Clarksville, Tenn. Wheat-flour. No. 103,229; Mar. 23; Gaz. vol. 212; p. 1354.
- Dunn & McCarthy, Auburn, N. Y. Leather boots and shoes. No. 102,381; Feb. 9; Gaz. vol. 211; p. 634.
- Dunn-Salmon Company, Syracuse, N. Y. Shoes. No. 101,673; Jan. 5; Gaz. vol. 210; p. 394.
- Dupont, A. M. & J. C., Houma, La. Roasted ground coffee. No. 104,963; June 29; Gaz. vol. 215; p. 1494.
- Durham Hosiery Mills, Durham, N. C. Hosiery. No. 102,382; Feb. 9; Gaz. vol. 211; p. 634.
- Durham Hosiery Mills, Durham, N. C. Hosiery. No. 104,446; June 1; Gaz. vol. 215; p. 317.
- Durkee & Co., E. R., New York, N. Y. Spices and mustard. No. 106,754; Oct. 26; Gaz. vol. 219; p. 1233.
- Durlaque Manufacturing Company, St. Louis, Mo. Preparation for stiffening box-toes of shoes and preparation for resisting etching-acids. No. 105,891; Aug. 24; Gaz. vol. 217; p. 1336.
- Dusanle, Tom E., Milwaukee, Wis. Medicinal compound used internally for treating certain named affections. No. 101,702; Jan. 5; Gaz. vol. 210; p. 395.
- Duval Company, Madam, Berkeley, Cal. Certain named toilet preparations. No. 106,583; Oct. 26; Gaz. vol. 219; p. 1228.
- Dwiggins Wire Fence Company, Anderson, Ind. Metal fencing, gates, and fence-posts. No. 104,381; May 25; Gaz. vol. 214; p. 1316.
- Dwight Divine & Sons, Ellenville, N. Y. Pocket and kitchen knives, pruners, budbers, and erasers. No. 102,918; Mar. 2; Gaz. vol. 212; p. 324.
- Dwinnell-Wright Co., Boston, Mass. Coffee. No. 106,848; Nov. 2; Gaz. vol. 220; p. 343.
- Dyckerhoff, Eduard, Neustadt, near Rühbenberge, Hanover, Germany. Peat. No. 106,584; Oct. 26; Gaz. vol. 219; p. 1228.
- E. Carré Company, Mobile, Ala. Soft drink. No. 106,041; Sept. 14; Gaz. vol. 218; p. 600.
- E. Greenfield's Sons, New York, N. Y. Candies. No. 103,428; Apr. 6; Gaz. vol. 213; p. 351.
- E. Greenfield's Sons, New York, N. Y. Candies in tablet form. No. 104,304; May 18; Gaz. vol. 214; p. 1021.
- E. Greenfield's Sons, New York, N. Y. Chocolates. No. 105,844; Aug. 24; Gaz. vol. 217; p. 1335.
- E. Ingraham Company, Bristol, Conn. Clocks. No. 104,799; June 15; Gaz. vol. 215; p. 974.
- E. McKittrick & Co., Inc., New York, N. Y. Voile. No. 105,858; Aug. 24; Gaz. vol. 217; p. 1335.
- E. Myers Lye Company, St. Louis, Mo. Lye. No. 102,979; Mar. 9; Gaz. vol. 212; p. 685.
- E. A. Well Company, Savannah, Ga. Boots, shoes, and slippers of leather. No. 104,137; May 4; Gaz. vol. 214; p. 339.
- E. A. Williams & Son, Inc., Jersey City, N. J. Bronze. No. 105,385; July 20; Gaz. vol. 216; p. 1009.
- E. B. Müller & Co., New York, N. Y., and Port Huron, Mich. Genuine chicory. No. 105,077; July 6; Gaz. vol. 216; p. 322.
- E. C. Atkins & Company, Indianapolis, Ind. Swage-shapers. No. 104,966; June 29; Gaz. vol. 215; p. 1494.
- E. E. Lloyd Paper Co., Chicago, Ill. Writing-paper. No. 104,461; June 1; Gaz. vol. 215; p. 317.
- E. F. Houghton & Co., Philadelphia, Pa. Lubricant for steam-engine cylinders. No. 107,847; Dec. 28; Gaz. vol. 221; p. 1448.
- E. F. Houghton & Company, Philadelphia, Pa. Preventive of oxidation. No. 102,104; Jan. 26; Gaz. vol. 210; p. 1390.
- E. H. Clapp Rubber Company, Boston, Mass. Reclaimed rubber. No. 103,994; Apr. 27; Gaz. vol. 213; p. 1441.

- E. I. du Pont de Nemours Powder Company, Wilmington, Del. Black sporting-powder. No. 106,821; Oct. 26; Gaz. vol. 219; p. 1235.
- E. I. Horsman Co., New York, N. Y. Dolls. No. 104,350; May 25; Gaz. vol. 214; p. 1315.
- E. L. Spencer Company, Providence, R. I. Jewelry. No. 102,908; Mar. 2; Gaz. vol. 212; p. 323.
- E. T. Burrows Company, The, Portland, Me. Combination step-ladder and stool. No. 102,251; Feb. 2; Gaz. vol. 211; p. 279.
- E. T. Burrows Company, The, Portland, Me. Tables, chairs, settees, stands, and cedar chests. No. 104,594; June 8; Gaz. vol. 215; p. 661.
- E. V. Gale Co., Chicago, Ill. Leather in unmanufactured form. No. 104,421; May 25; Gaz. vol. 214; p. 1317.
- E. W. Burt & Company, Incorporated, Boston, Mass. Leather and rubber heels and rubber inserts for leather heels. No. 105,783; Aug. 17; Gaz. vol. 217; p. 1051.
- E. Z. Patch Company, The, Akron, Ohio. Cementing and vulcanizing patches for rubber goods. No. 106,418; Oct. 19; Gaz. vol. 219; p. 924.
- E. & Z. Van Raitte, New York, N. Y. Vells and velling in the piece. No. 103,924; Apr. 20; Gaz. vol. 213; p. 1113.
- Eagle, Henry, Newcastle-upon-Tyne, England. Antiseptic preparations. No. 105,344; July 20; Gaz. vol. 216; p. 1008.
- Eagle Lake Citrus Growers Association, Eagle Lake, Fla. Citrus fruits. No. 104,503; June 1; Gaz. vol. 215; p. 319.
- Eagle Pencil Company, New York, N. Y. Writing and drawing pencils. No. 101,626; Jan. 5; Gaz. vol. 210; p. 393.
- Eagle Pencil Company, New York, N. Y. Trays and easels for lead-pencils and penholders. No. 105,978; Sept. 7; Gaz. vol. 218; p. 317.
- Eagle Pencil Company, New York, N. Y. Fountain-pens. Nos. 106,092-3; Oct. 12; Gaz. vol. 219; p. 581.
- Eagle Tannery, San Francisco, Cal. Harness, saddle, and sole leather. Nos. 102,074-5; Jan. 26; Gaz. vol. 210; p. 1389.
- Earle Gear & Machine Co., The, Philadelphia, Pa. Saws. No. 101,731; Jan. 12; Gaz. vol. 210; p. 709.
- Earle, Marie, New York, N. Y., and Paris, France. Certain pharmaceutical preparations for toilet use. No. 103,780; Apr. 13; Gaz. vol. 213; p. 743.
- Earle, Firm of Marie, New York, N. Y. Certain named pharmaceutical preparations for toilet purposes. No. 105,157; July 6; Gaz. vol. 216; p. 324.
- Earnsdale Worsted Co., Clinton, Mass. Upholstering-cloth. No. 101,837; Jan. 12; Gaz. vol. 210; p. 712.
- Earnshaw Knitting Company, Chicago, Ill. Children's and infants' certain named underwear and undergarments. No. 105,345; July 20; Gaz. vol. 216; p. 1008.
- Eason, Jno. F. H., Tyler, Tex. Chemical preparation for killing vegetable growths and insects. No. 106,849; Nov. 2; Gaz. vol. 220; p. 343.
- East Palestine Rubber Company, The, Unity township, Columbiana county, Ohio. Pneumatic tires, outer shoes, and inner tubes for same. No. 103,945; Apr. 20; Gaz. vol. 213; p. 1114.
- Eastern Finishing Works, Inc., Kenyon, R. I. Waterproof textile fabrics. No. 106,225; Oct. 19; Gaz. vol. 219; p. 918.
- Eastern Kentucky Coal Company, Mount Vernon, Ohio. Coal. No. 103,648; Apr. 13; Gaz. vol. 213; p. 739.
- Eastern Shore of Virginia Produce Exchange, Onley, Va. Fresh vegetables, particularly potatoes. No. 106,948; Nov. 9; Gaz. vol. 220; p. 670.
- Eastman Kodak Co., Rochester, N. Y. Sensitized photographic paper. No. 102,857; Feb. 23; Gaz. vol. 211; p. 1260.
- Eastman Kodak Co., Rochester, N. Y. Certain named photographic apparatus and supplies. No. 102,858; Feb. 23; Gaz. vol. 211; p. 1260.
- Eastman Kodak Co., Rochester, N. Y. Photographic developers. No. 103,342; Mar. 30; Gaz. vol. 212; p. 1685.
- Eastman Kodak Co., Rochester, N. Y. Sensitized photographic paper. No. 104,254; May 11; Gaz. vol. 214; p. 679.
- Eastman Kodak Co., Rochester, N. Y. Sensitive photographic film. No. 105,651; Aug. 10; Gaz. vol. 217; p. 695.
- Eastman Kodak Co., Rochester, N. Y. Sensitized photographic paper. No. 106,147; Oct. 12; Gaz. vol. 219; p. 582.
- Eaton, Crane & Pike Company, Pittsfield, Mass. Writing and printing paper, envelopes, tablets, &c. No. 104,179; May 4; Gaz. vol. 214; p. 341.
- Ebeling, Charles W., Elm Grove, W. Va. Chewing-gum. No. 105,912; Aug. 24; Gaz. vol. 217; p. 1337.
- Eberts & Bro., Incorporated, Jeffersonville, Ind., and Louisville, Ky. Certain named foods. No. 106,949; Nov. 9; Gaz. vol. 220; p. 670.
- Eberts Bros. Co., Wyandotte, Mich. Hard and soft coal, coke, and briquets. No. 105,194; July 13; Gaz. vol. 216; p. 657.
- Eckerson Company, Jersey City, N. J. Oleomargarin. No. 103,690; Apr. 13; Gaz. vol. 213; p. 740.
- Eckerson Company, Jersey City, N. J. Oleomargarin, butter, and eggs. No. 107,159; Nov. 16; Gaz. vol. 220; p. 1035.
- Eckert, Louis, Pittsburgh, Pa. Boots, shoes, slippers. No. 104,213; May 11; Gaz. vol. 214; p. 677.
- Eclipse Manufacturing Company. (See Brown, Willis S., Jr., assignor.)
- Eco Manufacturing Company, Boston, Mass. Metal piston-rings for packing. No. 105,257; July 13; Gaz. vol. 216; p. 659.
- Eddy, Mary B. G., deceased, Boston; A. McLellan, A. V. Stewart, J. V. Dittmore, A. H. Dickey, J. A. Neal, Brookline, Mass., and J. E. Fernald, Concord, N. H., trustees. Printed books, magazines, and Bible lessons. No. 103,439; Apr. 6; Gaz. vol. 213; p. 356.
- Eddystone Manufacturing Company, The, Eddystone and Philadelphia, Pa. Printed and dyed cotton goods. No. 105,432; July 27; Gaz. vol. 216; p. 1313.
- Edelman, Leopold, Cleveland, Ohio. Cigars. No. 101,732; Jan. 12; Gaz. vol. 210; p. 709.
- Edgar Allen American Manganese Steel Company, Augusta, Me., and Chicago, Ill. Castings and forgings made of carbon and manganese steel and iron. No. 101,625; Jan. 5; Gaz. vol. 210; p. 393.
- Edgar O. Clark Co., New York, N. Y. Toy game. No. 103,377; Mar. 30; Gaz. vol. 212; p. 1686.
- Edw. K. Tryon Company, Philadelphia, Pa. Artificial bait for fishing. No. 105,622; Aug. 10; Gaz. vol. 217; p. 694.
- Edward L. Mayer Inc., New York. Certain named clothing for women. No. 102,574; Feb. 16; Gaz. vol. 211; p. 951.
- Edwards, Gordon W., London, England. Anesthetics. No. 106,755; Oct. 26; Gaz. vol. 219; p. 1233.
- Edwards & Loomis Co., Chicago, Ill. Poultry feed. No. 102,330; Feb. 9; Gaz. vol. 211; p. 633.
- Edwards & Loomis Co., Chicago, Ill. Bird and poultry feed. No. 102,331; Feb. 9; Gaz. vol. 211; p. 633.
- Edwards & Loomis Co., Chicago, Ill. Animal feed. No. 102,383; Feb. 9; Gaz. vol. 211; p. 634.
- Edwards & Loomis Co., Chicago, Ill. Mixed-grain and mash feeds for poultry. No. 105,721; Aug. 17; Gaz. vol. 217; p. 1049.
- Edwin Bostock & Company Limited, Stafford, England. Boots, shoes, slippers. No. 107,732; Dec. 28; Gaz. vol. 221; p. 1445.
- Efficiency Company, The, Chicago, Ill. Monthly magazine. No. 102,875; Feb. 23; Gaz. vol. 211; p. 1261.
- Egg Baking Powder Company, New York, N. Y. Baking-powder. No. 105,979; Sept. 7; Gaz. vol. 218; p. 317.
- Egli, Firm of Hans W., Zurich, Switzerland. Adding and calculating machines. No. 104,868; June 22; Gaz. vol. 215; p. 1258.
- Egry Register Company, The, Dayton, Ohio. Type-writing-machine attachment for manifolding writings. No. 102,938; Mar. 2; Gaz. vol. 212; p. 324.
- Egry Register Company, The, Dayton, Ohio. Autographic registers and manifolding devices, parts thereof, &c. No. 102,939; Mar. 2; Gaz. vol. 212; p. 324.
- Ehlers, Albert, New York, N. Y. Certain named dry groceries. No. 104,607; June 8; Gaz. vol. 215; p. 661.
- Ehlers, Albert, New York, N. Y. Certain named dry groceries. No. 105,433; July 27; Gaz. vol. 216; p. 1313.
- Ehret Magnesia Manufacturing Co., Philadelphia, Pa. Insulating material having sound-deadening and heat and cold resisting properties. No. 105,346; July 20; Gaz. vol. 216; p. 1008.
- Ehrlich & Graetz, Berlin, Germany. Certain named lamps and lanterns and parts and accessories thereof. No. 101,927; Jan. 19; Gaz. vol. 210; p. 1060.
- Eichler, Armin, Brooklyn, N. Y. Paint-oils, lacquers, enamels, and paints. No. 106,148; Oct. 12; Gaz. vol. 219; p. 583.
- Einhorn & Son, S., New York, N. Y. Tennis and women's coats. Nos. 106,585-6; Oct. 26; Gaz. vol. 219; p. 1228.
- Eiseman Bros. Mfg. Co., Inc., St. Louis, Mo. Ladies' misses', and children's dresses, waists, and suits. No. 104,431; May 25; Gaz. vol. 214; p. 1317.
- Eisenmayer Milling Company, Springfield, Mo. Wheat-flour. No. 103,691; Apr. 13; Gaz. vol. 213; p. 740.
- Eisenmenger, Joseph, Anthon, Iowa. Metal fence-post caps. No. 106,950; Nov. 9; Gaz. vol. 220; p. 670.
- Eisenstadt Manufacturing Company, St. Louis, Mo. Certain named jewelry. No. 106,587; Oct. 26; Gaz. vol. 219; p. 1228.
- Eisner-Mendelson Co., New York, N. Y. Certain named pharmaceutical preparations. No. 104,713; June 15; Gaz. vol. 215; p. 971.
- El-Rees-Sco Cigar Company, Greensboro, N. C. Cigars. No. 105,046; July 6; Gaz. vol. 216; p. 321.
- Eldereen Medicine Co., Chattanooga, Tenn. Medicinal tonics, salves, and sanitary wash for abrasions, douches, &c. No. 107,320; Nov. 23; Gaz. vol. 220; p. 1367.
- Elders, H. Will, Kansas City, Mo. Remedy for the liquor and tobacco habit. No. 103,052; Mar. 16; Gaz. vol. 212; p. 1050.
- Electric Cable Company, The, Bridgeport, Conn., and New York, N. Y. Rubber-covered wires and cables. No. 104,180; May 4; Gaz. vol. 214; p. 341.
- Electric Cable Company, The, New York, N. Y., and Bridgeport, Conn. Rubber-covered electrical wires and cables. No. 104,214; May 11; Gaz. vol. 214; p. 677.

Alphabetical list of registrants of trade-marks—Continued.

- Electric Controller and Manufacturing Company, Cleveland, Ohio. Certain named electrical apparatus and supplies. No. 104,714; June 15; Gaz. vol. 215; p. 971.
- Electric Knitting Co., Inc., Cohoes, N. Y. Knitted cotton washcloths. No. 107,825; Dec. 28; Gaz. vol. 221; p. 1448.
- Electrical Steam Radiator Co., Portland, Me. Electric heaters. No. 103,284; Mar. 30; Gaz. vol. 212; p. 1683.
- Electro-Alkaline Co., Oakland, Cal. Bleaching, cleaning, and antiseptic compounds. No. 102,650; Feb. 16; Gaz. vol. 211; p. 954.
- Electro Chemical Company, The, Dayton, Ohio. Disinfectant, deodorizer, and bleaching agent. No. 106,149; Oct. 12; Gaz. vol. 219; p. 583.
- Elektra Toy & Novelty Co., New York, N. Y. Dolls. No. 103,613; Apr. 6; Gaz. vol. 213; p. 357.
- Elektra Toy & Novelty Co., New York, N. Y. Dolls. No. 106,951; Nov. 9; Gaz. vol. 220; p. 670.
- Elephant Orchards, Redlands, Cal. Fresh oranges, lemons, limes, and grape-fruit. No. 107,161; Nov. 16; Gaz. vol. 220; p. 1035.
- Elgin American Manufacturing Co., Elgin, Ill. Jewelry for personal adornment and certain named articles made of or plated with precious metal. No. 103,053; Mar. 16; Gaz. vol. 212; p. 1050.
- Ell Bridge Company, Roodhouse, Ill. Ferris wheels, merry-go-rounds, carousels, &c. No. 107,149; Nov. 16; Gaz. vol. 220; p. 1035.
- Ell Lilly and Company, The, Indianapolis, Ind. Medicinal preparation for pyorrhea and kindred diseases. No. 106,348; Oct. 19; Gaz. vol. 219; p. 922.
- Ell Lilly and Company, The, Indianapolis, Ind. Dental lotions and antiseptic solutions. No. 106,874; Nov. 2; Gaz. vol. 220; p. 344.
- Ell Lilly and Company, The, Indianapolis, Ind. Volatile inhalants contained and sold in ampuls. No. 106,982; Nov. 9; Gaz. vol. 220; p. 671.
- Ell Lilly and Company, The, Indianapolis, Ind. Containers for pharmaceutical and chemical preparations in liquid form. No. 107,268; Nov. 16; Gaz. vol. 220; p. 1039.
- Ell Lilly and Company, The, Indianapolis, Ind. Syringes. No. 107,447; Nov. 30; Gaz. vol. 220; p. 1715.
- Ellishewitz, Jacob, New York, N. Y. Hats. No. 105,457; July 27; Gaz. vol. 216; p. 1314.
- Elite Baking Powder Co., New York, N. Y. Baking-powder. No. 103,023; Mar. 16; Gaz. vol. 212; p. 1050.
- Elite Glass Cleaner Company, Detroit, Mich. Glass-cleaner. No. 107,721; Dec. 21; Gaz. vol. 221; p. 1036.
- Elite Polish Company, New Kensington, Pa. Polish-mops. No. 102,076; Jan. 26; Gaz. vol. 210; p. 1389.
- Elkonin & Nochomowitz, New York, N. Y. Certain named pharmaceutical preparations. No. 106,850; Nov. 2; Gaz. vol. 220; p. 344.
- Ellenbogen, Mangold H., Paterson, N. J., and New York, N. Y. Cotton piece goods. No. 103,155; Mar. 16; Gaz. vol. 212; p. 1053.
- Elliot, Sidney B., Markham, Va. Certain named foods. No. 106,952; Nov. 9; Gaz. vol. 220; p. 670.
- Ellis, Chas. F., Swissvale, Pa. Compound for making up pipe-joints. No. 105,958; Aug. 31; Gaz. vol. 217; p. 1658.
- Ellsworth Mill & Elevator Company, Ellsworth, Kans. Wheat-flour. No. 103,260; Mar. 23; Gaz. vol. 212; p. 1355.
- Elmer, Lewis S., Baltimore, Md. Certain named foods. No. 104,869; June 22; Gaz. vol. 215; p. 1258.
- Elrod, Henry E., Dallas, Tex. Electric generators. No. 104,168; May 4; Gaz. vol. 214; p. 340.
- Elsässische Werkzeugfabrik Zornhoff vormals Goldenberg & Co., Zornhoff, near Zabern, Germany. Certain named cutlery, tools, and parts thereof. No. 102,834; Feb. 23; Gaz. vol. 211; p. 1260.
- Elwood, Belle P., Gouverneur, N. Y. Preparation for treatment of scours in all live stock and poultry. No. 106,044; Sept. 21; Gaz. vol. 218; p. 873.
- Ely & Walker Dry Goods Co., St. Louis, Mo. Rompers and outer suits for children. No. 104,145; May 4; Gaz. vol. 214; p. 340.
- Embalmers' Supply Co., The, Westport, Conn. Certain named preparations for undertakers' use. No. 106,303; Oct. 19; Gaz. vol. 219; p. 920.
- Embury & De Melt, Syracuse, N. Y. Cream soap, filled out in tubes and jars. No. 104,215; May 11; Gaz. vol. 214; p. 677.
- Emecol Chemical Co., Asheville, N. C. Tooth-paste. No. 107,470; Dec. 7; Gaz. vol. 221; p. 345.
- Emerson, Isaac E., Baltimore, Md. Ginger-ale. No. 105,507; July 27; Gaz. vol. 216; p. 1315.
- Emery, Charles C., Portland, Oreg. Tire-filler. No. 103,156; Mar. 16; Gaz. vol. 212; p. 1054.
- Emery & Company, Incorporated, Boston, Mass. Cake. No. 104,715; June 15; Gaz. vol. 215; p. 971.
- Emil Busch Aktiengesellschaft Optische Industrie, Rathenow, Germany. Eyeglasses. No. 105,313; July 20; Gaz. vol. 216; p. 1007.
- Emil Scheller & Co., A. G., Zurich, Switzerland. Medicinal tonics. No. 106,802; Oct. 26; Gaz. vol. 219; p. 1235.
- Emil Scheller & Co., A. G., Zurich, Switzerland. Alimentary preparations used in medicine. No. 106,803; Oct. 26; Gaz. vol. 219; p. 1235.
- Emil Schult Toilet Article Company, Inc., The, New York, N. Y. Cold-cream. No. 106,262; Oct. 19; Gaz. vol. 219; p. 919.
- Emmer Products Company, Warland, Wyo. Emmer breakfast food, Graham flour, and stock and poultry food. No. 103,848; Apr. 20; Gaz. vol. 213; p. 1111.
- Empire Aluminum Manufacturing Co., Sag Harbor, N. Y. Certain named hardware supplies. No. 105,583; Aug. 10; Gaz. vol. 217; p. 693.
- Empire Cotton Oil Co., Atlanta, Ga. Cotton-seed meal. No. 102,384; Feb. 9; Gaz. vol. 211; p. 634.
- Empire Regenerator Company, New York, N. Y. Hair-colorings and hair-dyes. No. 104,716; June 15; Gaz. vol. 215; p. 971.
- Endurance Autoil Company, Muncie, Ind. Gear-lubricants. No. 102,077; Jan. 26; Gaz. vol. 210; p. 1389.
- Engineering Products Corporation, Newport News, Va. Ready-mixed paint for ships. No. 107,818; Dec. 28; Gaz. vol. 221; p. 1447.
- Engman-Matthews Range Co., South Bend, Ind. Stoves, ranges, and flues therefor. No. 107,162; Nov. 16; Gaz. vol. 220; p. 1036.
- Ennis-Hanly-Blackburn Coffee Co., The, Kansas City, Mo. Coffee and tea. No. 105,258; July 13; Gaz. vol. 216; p. 659.
- Enoree Manufacturing Company, Enoree, S. C. Sheetings and drillings. No. 102,386; Feb. 9; Gaz. vol. 211; p. 635.
- Enosis Publishing Company, New York, N. Y. Daily newspaper. No. 106,226; Oct. 19; Gaz. vol. 219; p. 918.
- Enrique Grana & Hijos, Malaga, Spain. Olive-oil for table use. No. 104,216; May 11; Gaz. vol. 214; p. 677.
- Ensign-Bickford Company, The, Simsbury, Conn. Fuses. Nos. 102,387-94; Feb. 9; Gaz. vol. 211; p. 635.
- Ensign-Bickford Company, The, Simsbury, Conn. Fuses. No. 104,217; May 11; Gaz. vol. 214; p. 677.
- Ensign-Bickford Company, The, Simsbury, Conn. Fuses. No. 104,286; May 18; Gaz. vol. 214; p. 1021.
- Enterprise Manufacturing Company, The, Akron, Ohio. Certain named sporting supplies. No. 105,722; Aug. 17; Gaz. vol. 217; p. 1049.
- Enterprise Manufacturing Company, The, Akron, Ohio. Certain named sporting goods. Nos. 106,419-20; Oct. 19; Gaz. vol. 219; p. 924.
- Eppstein, Milton L., Fort Worth, Tex. Certain named non-alcoholic beverages and flavoring extracts. No. 105,347; July 20; Gaz. vol. 216; p. 1008.
- Eppstein, Milton L., Fort Worth, Tex. Certain named foods. No. 105,584; Aug. 10; Gaz. vol. 217; p. 693.
- Equitable Corporation, Chicago, Ill. Detergent preparations for washing clothes, hand-cleanser, &c. No. 107,417; Nov. 23; Gaz. vol. 220; p. 1370.
- Ernst Schliemann's Export-Ceresin-Fabrik Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Ceresin. Nos. 104,157-8; May 4; Gaz. vol. 214; p. 340.
- Erthol Medicine Co., Fort Worth, Tex. Tonic medicines. No. 103,054; Mar. 16; Gaz. vol. 212; p. 1051.
- Eshleman, Jacob M., Lancaster, Pa. Vinegar. No. 102,078; Jan. 26; Gaz. vol. 210; p. 1389.
- Esmond Mills, Esmond, R. I. Blankets. No. 102,430; Feb. 9; Gaz. vol. 211; p. 636.
- Esmond Mills, The, Esmond, R. I. Certain named textile fabrics. No. 103,614; Apr. 6; Gaz. vol. 213; p. 357.
- Essanay Film Manufacturing Co., Chicago, Ill. Moving-picture films. No. 103,055; Mar. 16; Gaz. vol. 212; p. 1051.
- Essex Foundry, Newark, N. J. Certain named cast-iron pipes and fittings. No. 107,779; Dec. 28; Gaz. vol. 221; p. 1446.
- Essex Rubber Company, Trenton, N. J. Rubber and leather composition soles. No. 105,529; Aug. 3; Gaz. vol. 217; p. 335.
- Ethel Coal Co., The, Ethel, W. Va. Coal. No. 105,158; July 6; Gaz. vol. 216; p. 324.
- Etna Chemical Company, Etna, Pa. Polish for wood and furniture. No. 105,652; Aug. 10; Gaz. vol. 217; p. 695.
- Etna Chemical Company, Etna, Pa. Polish for metal. No. 105,786; Aug. 17; Gaz. vol. 217; p. 1051.
- Eubanks & Mills, Miles, Tex. Preparation for treatment of hog-cholera. No. 102,079; Jan. 26; Gaz. vol. 210; p. 1389.
- Eureka Coffee Co., Buffalo, N. Y. Coffee, tea, and spices. No. 107,163; Nov. 16; Gaz. vol. 220; p. 1036.
- Evans, Mary A., New York, N. Y. Tooth powder and paste, mouth lotion or wash. No. 102,965; Mar. 9; Gaz. vol. 212; p. 685.
- Evansville Paint & Varnish Co., Evansville, Ind. Prepared roofing. No. 106,046; Sept. 21; Gaz. vol. 218; p. 873.
- Everett Mills, Lawrence, Mass. Cotton piece goods. No. 103,157; Mar. 16; Gaz. vol. 212; p. 1054.
- Everett Packing Co., Everett, Wash. Canned salmon. No. 106,307; Oct. 19; Gaz. vol. 219; p. 920.
- Everett Packing Co., Everett, Wash. Canned salmon. Nos. 107,321-3; Nov. 23; Gaz. vol. 220; p. 1367.
- Every Week Corporation, New York, N. Y. Weekly magazine. No. 106,758; Oct. 26; Gaz. vol. 219; p. 1233.
- Evinrude Motor Co., Milwaukee, Wis. Internal-combustion motors for boats and canoes. No. 103,420; Apr. 6; Gaz. vol. 213; p. 351.

- Exall & Co., Jos. K., Paducah, Ky. Fresh raw apples. No. 106,953; Nov. 9; Gaz. vol. 220; p. 670.
- Excelsior Feature Film Co., Inc., New York, N. Y. Motion-picture films. No. 106,047; Sept. 21; Gaz. vol. 218; p. 873.
- Exeter Brass Works, Exeter, N. H. Cage and siphon valves, compression stops and wastes. No. 103,158; Mar. 16; Gaz. vol. 212; p. 1054.
- Exolon Company, The, Cambridge, Mass. By-product obtained in producing silicon carbide used for refractory purposes. No. 105,838; Aug. 24; Gaz. vol. 217; p. 1335.
- Eyster, W. C., Joplin, Mo. Medicinal tonic, salve, and liniment. No. 102,395; Feb. 9; Gaz. vol. 211; p. 635.
- Ezell, James E., Woodruff, S. C. Emblematic toy. No. 104,051; Apr. 27; Gaz. vol. 213; p. 1443.
- F. A. Hardy & Co., Chicago, Ill. Lenses for scientific use and ophthalmic lenses. No. 103,287; Mar. 30; Gaz. vol. 212; p. 1683.
- F. A. Hardy & Co., Chicago, Ill. Lenses for scientific use, ophthalmic lenses, goggles, eyeglasses, &c. No. 103,429; Apr. 6; Gaz. vol. 213; p. 351.
- F. A. Hardy & Co., Chicago, Ill. Ophthalmic lenses. No. 104,218; May 11; Gaz. vol. 214; p. 677.
- F. A. Hardy & Co., Chicago, Ill. Goggles, eyeglasses, spectacles, and mountings therefor. No. 104,385; May 25; Gaz. vol. 214; p. 1316.
- F. A. Hardy & Co., Chicago, Ill. Eye shades and shields. No. 104,612; June 8; Gaz. vol. 215; p. 661.
- F. A. Hardy & Co., Chicago, Ill. Ophthalmic lenses. No. 105,815; Aug. 17; Gaz. vol. 217; p. 1052.
- F. A. Patrick & Co., Duluth, Minn. Certain named clothing. No. 101,748; Jan. 12; Gaz. vol. 210; p. 709.
- F. A. Patrick & Co., Duluth, Minn. Knitted underwear. No. 101,749; Jan. 12; Gaz. vol. 210; p. 709.
- F. A. Thompson & Co., Detroit, Mich. Hair-tonics. No. 104,893; June 22; Gaz. vol. 215; p. 1259.
- F. A. Thompson & Company, Detroit, Mich. Fumigators and insecticides. No. 102,549; Feb. 9; Gaz. vol. 211; p. 639.
- F. C. Huyck & Sons, Albany, N. Y. Paper-making felts. No. 107,723; Dec. 21; Gaz. vol. 221; p. 1036.
- F. C. Huyck & Sons, Albany, N. Y. Paper-making felts. No. 107,742; Dec. 28; Gaz. vol. 221; p. 1445.
- F. D. Farmer Co., Omaha, Nebr. Japan tea. No. 103,309; Mar. 30; Gaz. vol. 212; p. 1684.
- F. F. Christien & Company Limited, London, England. Mica. No. 101,698; Jan. 5; Gaz. vol. 210; p. 395.
- F. & F. Specialty Co., Boston, Mass. Clothes-pins. No. 102,080; Jan. 26; Gaz. vol. 210; p. 1389.
- F. J. Barnard & Co., Inc., Boston, Mass. Book-lacquer. No. 105,576; Aug. 10; Gaz. vol. 217; p. 693.
- F. K. James Company, New York, N. Y. Incense. No. 107,709; Dec. 21; Gaz. vol. 221; p. 1036.
- F. L. Bosworth Co., Minneapolis, Minn. Clocks. No. 107,311; Nov. 23; Gaz. vol. 220; p. 1367.
- F. P. Kirkendall & Co., Omaha, Nebr. Kid and leather boots and shoes. No. 106,773; Oct. 26; Gaz. vol. 219; p. 1234.
- F. S. Love Manufacturing Co., Johnstown, Pa. Candles, bonbons, fruit tablets, and popcorn. No. 105,439; July 27; Gaz. vol. 216; p. 1313.
- F. S. Love Manufacturing Co., Johnstown, Pa. Candles, bonbons, fruit tablets, and sugar-coated popcorn. No. 106,455; Oct. 19; Gaz. vol. 219; p. 925.
- F. S. Love Manufacturing Company, Johnstown, Pa. Candy. No. 105,438; July 27; Gaz. vol. 216; p. 1313.
- F. S. Royster Guano Co., Norfolk, Va. Fertilizers. No. 101,793; Jan. 12; Gaz. vol. 210; p. 711.
- F. S. Royster Guano Co., Norfolk, Va. Fertilizers. Nos. 102,445-8; Feb. 9; Gaz. vol. 211; p. 636.
- F. S. Royster Guano Co., Norfolk, Va. Fertilizers. No. 103,966; Apr. 20; Gaz. vol. 213; p. 1114.
- F. S. Royster Guano Co., Norfolk, Va. Fertilizers. Nos. 105,124-40; July 6; Gaz. vol. 216; pp. 323-4.
- F. S. Royster Guano Co., Norfolk, Va. Fertilizers. Nos. 107,286-8; Nov. 16; Gaz. vol. 220; p. 1039.
- F. S. Royster Guano Co., Norfolk, Va. Fertilizers. Nos. 107,378-83; Nov. 23; Gaz. vol. 220; p. 1369.
- F. W. Klinger and Langbein Company, Philadelphia, Pa. Supports for carrying artificial flies. No. 105,359; July 20; Gaz. vol. 216; p. 1008.
- Faber, Eberhard, New York, N. Y. Lead-pencils. No. 102,396; Feb. 9; Gaz. vol. 211; p. 635.
- Fabreeka Belting Co., Lawrence, Mass. Leather belting. No. 103,422; Apr. 6; Gaz. vol. 213; p. 351.
- Fabrikken Ferrin ved E. Andersen, J. A. Løvgreen, Th. Løvgreen, Copenhagen, Denmark. Treatment of anemia. No. 107,664; Dec. 14; Gaz. vol. 221; p. 733.
- Fabrique de Machines "Mikron" S. A., Madretsch, near Biel, Switzerland. Tools, machine-tools for clock-makers and fine or precision mechanics. No. 102,397; Feb. 9; Gaz. vol. 211; p. 635.
- Fafnir Bearing Company, The, New Britain, Conn. Certain named machinery and parts thereof. No. 104,534; June 1; Gaz. vol. 215; p. 320.
- Fahey, James, Ludington, Mich. Compound for cleaning carpets, rugs, delicate fabrics, &c. No. 106,032; Sept. 14; Gaz. vol. 218; p. 600.
- Fair, The, Chicago, Ill. Rubber garden-hose. No. 102,515; Feb. 9; Gaz. vol. 211; p. 638.
- Fair, The, Chicago, Ill. Cigars, cigarettes, and smoking-tobacco. No. 102,516; Feb. 9; Gaz. vol. 211; p. 638.
- Fair, The, Chicago, Ill. Hats. No. 103,261; Mar. 23; Gaz. vol. 212; p. 1355.
- Fair, The, Chicago, Ill. Hats. No. 104,256; May 11; Gaz. vol. 214; p. 679.
- Fair, The, Chicago, Ill. Carpet-sweeper. No. 104,420; May 25; Gaz. vol. 214; p. 1317.
- Fair & Carnival Trading Co., Inc., New York, N. Y. Dolls. No. 102,966; Mar. 9; Gaz. vol. 212; p. 685.
- Fairmount Electric and Manufacturing Company, The, Philadelphia, Pa. Certain named electrical apparatus and supplies. No. 101,928; Jan. 19; Gaz. vol. 210; p. 1060.
- Faith Knitting Company, Averillpark, N. Y. Knitted shirts, drawers, and union suits for men and boys. No. 102,272; Feb. 2; Gaz. vol. 211; p. 280.
- Falk Tobacco Co., New York, N. Y. Smoking-tobacco and cigarettes. No. 105,980; Sept. 7; Gaz. vol. 218; p. 317.
- Falk Tobacco Co., New York, N. Y. Smoking-tobacco and cigarettes. No. 107,443; Nov. 30; Gaz. vol. 220; p. 1715.
- Falkenberg, Jay, Akron, Ohio. Chemical compound for purifying gasoline and preventing formation of carbon in explosive-engines. No. 102,892; Mar. 2; Gaz. vol. 212; p. 323.
- Fall River Bleachery, Fall River, Mass. Cotton piece goods. No. 106,421; Oct. 19; Gaz. vol. 219; p. 924.
- Falls Rubber Co., The, Cuyahoga Falls, Ohio. Inner tubes for tires and tire-casings. No. 101,929; Jan. 19; Gaz. vol. 210; p. 1060.
- Fanning Charters Fruit Distributing Company, Chicago, Ill. and New York, N. Y. Fruits, both fresh and dried. No. 107,253; Nov. 16; Gaz. vol. 220; p. 1038.
- Farber, Simon W., New York, N. Y. Certain named copper, brass, and nickel hollow metal ware. No. 103,751; Apr. 13; Gaz. vol. 213; p. 742.
- Farbwerke-Hoechst Company, New York, N. Y. Dissolving-dishes. No. 107,780; Dec. 28; Gaz. vol. 221; p. 1446.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Carcinoma extract for the treatment of malignant tumors. No. 102,332; Feb. 9; Gaz. vol. 211; p. 633.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Sarcoma extract for the treatment of malignant tumors. No. 102,333; Feb. 9; Gaz. vol. 211; p. 633.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Parent product for preparation of medicines for tuberculosis. No. 102,602; Feb. 16; Gaz. vol. 211; p. 952.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Sterilized solution of 2.5 per cent. strength of a preparation for the treatment of tuberculosis. No. 102,603; Feb. 16; Gaz. vol. 211; p. 952.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for gouty and rheumatic diseases and neuralgic affections. No. 105,811; Aug. 17; Gaz. vol. 217; p. 1052.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy against syphilis, sleeping-sickness, &c. No. 106,308; Oct. 19; Gaz. vol. 219; p. 920.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Hypnotic and sedative preparations. No. 107,489; Dec. 7; Gaz. vol. 221; p. 345.
- Fareira, M. Barker, New York, N. Y. Hair- tonic. No. 103,024; Mar. 16; Gaz. vol. 212; p. 1050.
- Fargo, Frank M., Chicago, Ill. Children's leather, &c., shoes. No. 105,791; Aug. 17; Gaz. vol. 217; p. 1051.
- Fargo, Stephen, Cleveland, Ohio. Preparation for use in the treatment of certain named ailments. No. 102,745; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Remedy for constipation. No. 102,746; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Remedy for laxative purposes and for purifying the blood. No. 102,747; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio, Liniment. No. 102,748; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Remedy for affections of the lungs and throat. No. 102,749; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Remedy for various human ailments. No. 102,750; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Remedy for certain named ailments. No. 102,751; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Remedy in the treatment of various human ailments. No. 102,752; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Ointment for all itchiness of the skin. No. 102,753; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Toilet soaps. No. 102,754; Feb. 23; Gaz. vol. 211; p. 1257.
- Fargo, Stephen, Cleveland, Ohio. Liniment. No. 103,559; Apr. 6; Gaz. vol. 213; p. 356.

Alphabetical list of registrants of trade-marks—Continued.

- Fargo, Stephen, Cleveland, Ohio. Salts remedy for constipation, kidney, &c., disorders and rheumatism. No. 103,849; Apr. 20; Gaz. vol. 213; p. 1111.
- Fargo, Stephen, Cleveland, Ohio. Remedy for the treatment of certain named ailments. No. 103,850; Apr. 20; Gaz. vol. 213; p. 1111.
- Fargo, Stephen, Cleveland, Ohio. Toilet cream. No. 103,851; Apr. 20; Gaz. vol. 213; p. 1111.
- Fargo, Stephen, Cleveland, Ohio. Hair-invigorator and remedy for diseases of the scalp, &c. No. 103,852; Apr. 20; Gaz. vol. 213; p. 1111.
- Fargo, Stephen, Cleveland, Ohio. Remedy for the treatment of certain named affections. No. 104,717; June 15; Gaz. vol. 215; p. 971.
- Fargo, Stephen, Cleveland, Ohio. Liniment. No. 104,718; June 15; Gaz. vol. 215; p. 971.
- Fargo, Stephen, Cleveland, Ohio. Remedy for indigestion, biliousness, &c. No. 106,309; Oct. 19; Gaz. vol. 219; p. 920.
- Fargo, Stephen, Cleveland, Ohio. Toilet cream. No. 106,310; Oct. 19; Gaz. vol. 219; p. 920.
- Fargo, Stephen, Cleveland, Ohio. Liniment. No. 106,311; Oct. 19; Gaz. vol. 219; p. 920.
- Fargo, Stephen, Cleveland, Ohio. Remedy for laxative purposes and for purifying the blood. No. 106,312; Oct. 19; Gaz. vol. 219; p. 920.
- Fargo, Stephen, Cleveland, Ohio. Toilet soaps. No. 106,313; Oct. 19; Gaz. vol. 219; p. 920.
- Fargo, Stephen, Cleveland, Ohio. Remedy for constipation, hepatic torpor, and biliousness. No. 106,314; Oct. 19; Gaz. vol. 219; p. 921.
- Fargo, Stephen, Cleveland, Ohio. Remedy for the treatment of certain named diseases. No. 106,315; Oct. 19; Gaz. vol. 219; p. 921.
- Fargo, Stephen, Cleveland, Ohio. Remedy for constipation, sour stomach, diarrhea, &c. No. 106,316; Oct. 19; Gaz. vol. 219; p. 921.
- Fargo, Stephen, Cleveland, Ohio. Remedy for corns. No. 106,588; Oct. 26; Gaz. vol. 219; p. 1228.
- Fargo, Stephen, Cleveland, Ohio. Remedy for dyspepsia, biliousness, eczema, &c. No. 107,471; Dec. 7; Gaz. vol. 221; p. 345.
- Fargo, Stephen, Cleveland, Ohio. Remedy for nervousness, anemia, weakness, &c. No. 107,472; Dec. 7; Gaz. vol. 221; p. 345.
- Faribault Woolen Mill Company, Faribault, Minn. Woolen piece goods and blankets. No. 102,919; Mar. 2; Gaz. vol. 212; p. 324.
- Farlow, Charles A., Pueblo, Colo. Pyorrhea. No. 103,893; Apr. 20; Gaz. vol. 213; p. 1112.
- Farm Engineering Publishing Company, Chicago, Ill. Monthly magazines. No. 106,317; Oct. 19; Gaz. vol. 219; p. 921.
- Farmer Seed & Nursery Co., Faribault, Minn. Yellow dent corn. No. 103,262; Mar. 23; Gaz. vol. 212; p. 1355.
- Farmer Seed & Nursery Co., Faribault, Minn. White dent corn. No. 104,015; Apr. 27; Gaz. vol. 213; p. 1441.
- Farr Brick Company, Cleveland, Ohio. Brick. Nos. 103,056-7; Mar. 16; Gaz. vol. 212; p. 1051.
- Faucette Pharmacal Co., Argenta, Ark. Remedy for epilepsy. No. 103,381; Mar. 30; Gaz. vol. 212; p. 1686.
- Faulds, Thomas A., assignor to T. A. Faulds Company, Boston, Mass. Compound for imparting the flavor of butter to certain products. No. 105,013; June 29; Gaz. vol. 215; p. 1495.
- Faxon, Williams & Faxon, Buffalo, N. Y. Detergent cleaning preparation. No. 104,448; June 1; Gaz. vol. 215; p. 317.
- Fay, Alfred C., Boston, Mass. Case-hardening compound. No. 105,047; July 6; Gaz. vol. 216; p. 321.
- Fay, Josie, Detroit, Mich. Ointment. No. 104,719; June 15; Gaz. vol. 215; p. 971.
- Federal Coffee Mills Company, The, Cleveland, Ohio. Coffee. No. 104,870; June 22; Gaz. vol. 215; p. 1258.
- Federal Legislative Bulletin Service Incorporated, Chicago, Ill. Periodicals published weekly. No. 105,260; July 13; Gaz. vol. 216; p. 659.
- Federal Milling Company, Lockport, N. Y. Wheat-flour. No. 103,809; Apr. 13; Gaz. vol. 213; p. 744.
- Federal Sugar Refining Co., Yonkers, N. Y. Sugar. No. 103,382; Mar. 30; Gaz. vol. 212; p. 1686.
- Fee, Marcus A., Milwaukee, Wis. Evaporated milk. No. 102,835; Feb. 23; Gaz. vol. 211; p. 1260.
- Feis Company, The, Chicago, Ill. Shoe dressings and polishes. No. 101,704; Jan. 5; Gaz. vol. 210; p. 395.
- Feldman Bros., New York, N. Y. Shirt-waists. No. 102,920; Mar. 2; Gaz. vol. 212; p. 324.
- Feldman, Emil, Scranton, Pa. Butter. No. 103,285; Mar. 30; Gaz. vol. 212; p. 1683.
- Feldman, Joseph S., Denver, Colo. Hair-tonic. No. 105,048; July 6; Gaz. vol. 216; p. 321.
- Fellman, E. J., Milwaukee, Wis. Hangers and fasteners for window-screen and storm-sash. No. 104,608; June 8; Gaz. vol. 215; p. 661.
- Fellows Medical Mfg Co., Limited, The, New York, N. Y. Laxative tablets. No. 106,422; Oct. 19; Gaz. vol. 219; p. 924.
- Felenthal Brothers, New York, N. Y. Printed charts for computation. No. 105,653; Aug. 10; Gaz. vol. 217; p. 695.
- Feltenstein, David, St. Joseph, Mo. Tea, mustard, pepper, cloves, and roasted coffee. No. 107,490; Dec. 7; Gaz. vol. 221; p. 345.
- Ferdinand Gutmann & Co., New York, N. Y. Bottle-seals. No. 107,722; Dec. 21; Gaz. vol. 221; p. 1036.
- Ferdinand Neumer, Inc., New York, N. Y. Beer. No. 104,949; June 29; Gaz. vol. 215; p. 1493.
- Ferer, Harry J., Falls City, Neb. Electric egg-testers. No. 104,936; June 29; Gaz. vol. 215; p. 1493.
- Ferger Grain Company, The, Cincinnati, Ohio. Stock food. No. 102,604; Feb. 16; Gaz. vol. 211; p. 952.
- Ferguson, George O., Washington, D. C., and Denver, Colo. Inhaler devices. No. 107,573; Dec. 14; Gaz. vol. 221; p. 731.
- Ferguson, Harvey C., Cornelia, Ga. Non-alcoholic carbonated beverage and syrup for making same. No. 106,073; Oct. 5; Gaz. vol. 219; p. 267.
- Ferguson, Hene & Nevens, New York, N. Y. Negligée, dress, and work shirts. No. 104,975; June 29; Gaz. vol. 215; p. 1494.
- Fernald, Josiah E., et al., trustees. (See Eddy, Mary B. G.)
- Fernandez, Mannel L., Habana, Cuba. Cigars. Nos. 105,294-7; July 13; Gaz. vol. 216; p. 660.
- Fernandez Y. Garcia, Firm of, Habana, Cuba, and New York, N. Y. Cigars. No. 103,098; Mar. 16; Gaz. vol. 212; p. 1052.
- Ferri, Pietro, New York, N. Y. Purgatives. No. 102,967; Mar. 9; Gaz. vol. 212; p. 685.
- Fibre Company, Chicago, Ill. Plastic composition for flooring material. No. 103,344; Mar. 30; Gaz. vol. 212; p. 1685.
- Piege, Raymond G., Cleveland, Ohio. Frosting for cakes. No. 105,049; July 6; Gaz. vol. 216; p. 321.
- 50/50 Manufacturing Co., Inc., New York, N. Y. Cigarettes. No. 101,725; Jan. 12; Gaz. vol. 210; p. 709.
- Filippi, M. A., Chicago, Ill. Pills for constipation, toothpaste, salve, and talcum powder. No. 101,776; Jan. 12; Gaz. vol. 210; p. 710.
- Finger and Co., Rebecca, Chicago, Ill. Face-cream. No. 105,751; Aug. 17; Gaz. vol. 217; p. 1050.
- Fink, Christina, West New York, N. J. Salve for external sores and burns. No. 103,725; Apr. 13; Gaz. vol. 213; p. 741.
- Finkelstein, Irving, New York, N. Y. Children's and misses' coats and junior suits. No. 101,930; Jan. 19; Gaz. vol. 210; p. 1060.
- Finlay, Walter S., New York, N. Y. Ruchings, ruffings, platings, &c. No. 102,081; Jan. 26; Gaz. vol. 210; p. 1389.
- Fire Alarm Signal Company, Boston, Mass. Certain named electrical apparatus, parts thereof, and supplies. No. 105,112; July 6; Gaz. vol. 216; p. 323.
- Firth-Sterling Steel Company, McKeesport, Pa. Tool-steel. No. 106,094; Oct. 12; Gaz. vol. 219; p. 581.
- Fischer, Arthur J., Boston, Mass. Monthly magazine. No. 104,764; June 15; Gaz. vol. 215; p. 973.
- Fischer & Co., B., New York, N. Y. Coffee and rice. No. 104,001; Apr. 27; Gaz. vol. 213; p. 1441.
- Fishel & Company, New York, N. Y. Certain named articles made in imitation of silver. Nos. 103,584-5; Apr. 6; Gaz. vol. 213; p. 356.
- Fishel & Company, New York, N. Y. Certain named imitation jewelry made from alloys of metal to imitate platinum and silver. No. 103,586; Apr. 6; Gaz. vol. 213; p. 356.
- Fishel & Gorman, Inc., New York, N. Y. Embroidery outfits consisting of certain named articles. No. 103,345; Mar. 30; Gaz. vol. 212; p. 1685.
- Fishel & Levy, Hartford, Conn., and New York, N. Y. Whisky. No. 102,651; Feb. 16; Gaz. vol. 211; p. 954.
- Fisher Flouring Mills Co., Seattle, Wash. Wheat-flour. No. 105,195; July 13; Gaz. vol. 216; p. 657.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. Nos. 105,050-1; July 6; Gaz. vol. 216; p. 321.
- Fisher, Harry C., New York, N. Y. Series of cartoons. No. 102,968; Mar. 9; Gaz. vol. 212; p. 685.
- Fisher, Lewis R., Baltimore, Md. Toilet-paper. No. 106,759; Oct. 26; Gaz. vol. 219; p. 1233.
- Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber vehicle-tires. No. 103,263; Mar. 23; Gaz. vol. 212; p. 1355.
- Fiske Brothers Refining Co., New York, N. Y. Lubricating oils and greases. No. 104,504; June 1; Gaz. vol. 215; p. 319.
- Fiske Brothers Refining Co., New York, N. Y. Lubricating oils and greases. No. 106,095; Oct. 12; Gaz. vol. 219; p. 581.
- Fiske & Company, Incorporated, Boston, Mass., and New York, N. Y. Brick and tile. No. 106,954; Nov. 9; Gaz. vol. 220; p. 670.
- Fitzger Brewing Co., Duluth, Minn. Non-intoxicating malt beverage. Nos. 101,931-2; Jan. 19; Gaz. vol. 210; p. 1060.
- Fitz Gibbon & Co., F., New York, N. Y. Gloves. No. 104,720; June 15; Gaz. vol. 215; p. 971.
- Fitzpatrick Bros., Chicago, Ill. Scouring preparation for household use. No. 107,516; Dec. 7; Gaz. vol. 221; p. 346.
- Fitzpatrick Bros., Chicago, Ill. Detergent cleaning preparation. No. 107,680; Dec. 21; Gaz. vol. 221; p. 1035.

- Flack, Louisa, Sanborn, Iowa. Salad-dressing. No. 102,273; Feb. 2; Gaz. vol. 211; p. 280.
- Flannery Bolt Company, Pittsburgh, Pa. Certain named bolts and nuts. No. 105,052; July 6; Gaz. vol. 216; p. 321.
- Flash Chemical Company, Boston, Mass. Bug and insect exterminator. No. 104,505; June 1; Gaz. vol. 215; p. 519.
- Flavell Bros., Philadelphia, Pa. Knitted underwear. No. 103,346; Mar. 30; Gaz. vol. 212; p. 1685.
- Fleischer, Irving, New York, N. Y. Mayonnaise dressing. No. 106,851; Nov. 2; Gaz. vol. 220; p. 344.
- Fleming, John C., Columbia, S. C. Corrugated metal culverts. No. 102,786; Feb. 23; Gaz. vol. 211; p. 1258.
- Fleming, Samuel, Lowell, Mass. Leather boots and shoes. No. 104,118; May 4; Gaz. vol. 214; p. 339.
- Fletcher, Betty E., Kansas City, Mo. Cough-syrup. No. 103,947; Apr. 20; Gaz. vol. 213; p. 1114.
- Fletcher & Wilson Coffee Co., Nashville, Tenn. Peanuts and peanut-butter. No. 104,609; June 8; Gaz. vol. 215; p. 661.
- Flexstone Products Co., The, Columbus, Ohio. Cement-like compound for constructing flooring, waterproof walls, and ceilings. Nos. 101,838-9; Jan. 12; Gaz. vol. 210; p. 712.
- Flint, Blood & Co. Inc., Providence, R. I. Finger-rings. No. 107,739; Dec. 28; Gaz. vol. 221; p. 1445.
- Flint, Eaton & Co., Decatur, Ill. Materials for preventing the formation of rust or scale in water-containing devices. No. 106,423; Oct. 19; Gaz. vol. 219; p. 924.
- Flint, M. E. and W. E., Montclair, N. J. Butter. No. 105,014; June 29; Gaz. vol. 215; p. 1495.
- Flint and Walling Manufacturing Co., Kendallville, Ind. Certain named machinery and tools and parts thereof. No. 105,015; June 29; Gaz. vol. 215; p. 1495.
- Flint and Walling Manufacturing Co., Kendallville, Ind. Bearings. No. 107,324; Nov. 23; Gaz. vol. 220; p. 1367.
- Florida Citrus Exchange, Tampa, Fla. Citrus fruits. No. 106,590; Oct. 26; Gaz. vol. 219; p. 1228.
- Florio & C. Società Anonima Vinicola Italiana, Milan, Italy. Marsala wine. No. 103,159; Mar. 16; Gaz. vol. 212; p. 1054.
- Fluegelman & Co., N. New York, N. Y. Cotton piece goods. No. 103,649; Apr. 13; Gaz. vol. 213; p. 739.
- Flügger, Firm of J. D., Hamburg, Germany. Paints and varnishes. No. 101,628; Jan. 5; Gaz. vol. 210; p. 393.
- Foley Bros. & Quinlan, Incorporated, St. Paul, Minn. Coffee. No. 106,852; Nov. 2; Gaz. vol. 220; p. 344.
- Foley, William C., Chicago, Ill. Sewing-machines, parts, and appurtenances. No. 107,164; Nov. 16; Gaz. vol. 220; p. 1036.
- Foley & Williams Plano Co., Chicago, Ill. Mechanically or automatically operated actions to play organs. No. 104,016; Apr. 27; Gaz. vol. 213; p. 1441.
- Folkman, Petra, New York, N. Y. Cream preparation for toilet use. No. 105,913; Aug. 24; Gaz. vol. 217; p. 1337.
- Follansbee Brothers Company, Pittsburgh, Pa. Metal plates and sheets. No. 105,812; Aug. 17; Gaz. vol. 217; p. 1052.
- Follmer Clogg & Co., New York, N. Y. Umbrellas and parasols. No. 102,787; Feb. 23; Gaz. vol. 211; p. 1258.
- Foot, Albert E., Estate of; W. M. Foote, trustee, Philadelphia, Pa. Mixture of refractory minerals capable of resisting high temperatures. Nos. 106,304-6; Oct. 19; Gaz. vol. 219; p. 920.
- Foot, Albert E., Estate of; W. M. Foote, trustee, Philadelphia, Pa. Prepared compound capable of resisting high temperatures. Nos. 106,756-7; Oct. 26; Gaz. vol. 219; p. 1233.
- Foot, Warren M., trustee. (See Foot, Estate of A. E.)
- Forbes, Andrew, Philadelphia, Pa. Gins. No. 104,555; June 1; Gaz. vol. 215; p. 320.
- Forbes Varnish Company, The, Cleveland, Ohio. Varnish. No. 106,150; Oct. 12; Gaz. vol. 219; p. 583.
- Forbush Shoe Company, The, North Grafton, Mass. Leather and canvas boots and shoes. No. 101,933; Jan. 19; Gaz. vol. 210; p. 1060.
- Forbush Shoe Company, The, North Grafton, Mass. Lasts. No. 103,726; Apr. 13; Gaz. vol. 213; p. 741.
- Ford Knock Down Winter Top Co., Chicago, Ill. Automobile tops or covers. No. 105,998; Sept. 14; Gaz. vol. 218; p. 599.
- Ford Medicine Company, Dothan, Ala. Liver-pills, croup and pneumonia salve, &c. No. 101,705; Jan. 5; Gaz. vol. 210; p. 395.
- Ford Motor Company, Detroit, Mich. Moving-picture films. No. 101,934; Jan. 19; Gaz. vol. 210; p. 1060.
- Forecast Publishing Co., The, New York, N. Y.; Camden, N. J., and Philadelphia, Pa. Monthly periodical. No. 101,935; Jan. 19; Gaz. vol. 210; p. 1060.
- Forest City Electric Company, The, Cleveland, Ohio. Shock-absorbers. No. 102,082; Jan. 26; Gaz. vol. 210; p. 1389.
- Forgette, Mastie L., Chicago, Ill. Salve and remedy for burns, injuries, and bruises. No. 102,084; Jan. 26; Gaz. vol. 210; p. 1389.
- Forsbacka Jernverks Aktiebolag, Forsbacka, Sweden. Iron and steel. No. 107,254; Nov. 16; Gaz. vol. 220; p. 1038.
- Förster, Querin, Brussels, Belgium. Products for conserving wood. No. 104,871; June 22; Gaz. vol. 215; p. 1258.
- Forstmann & Huffman Co., Passaic, N. J. Woolen and worsted piece goods. No. 105,508; July 27; Gaz. vol. 216; p. 1315.
- Forstner Co., W., Providence, R. I. Metal chains for personal wear. No. 106,318; Oct. 19; Gaz. vol. 219; p. 921.
- Fort Collins Milling & Elevator Co., The, Fort Collins, Colo. Wheat-flour. No. 103,025; Mar. 16; Gaz. vol. 212; p. 1050.
- Fort Pitt Bedding Co., Pittsburgh, Pa. Bed-springs. No. 104,765; June 15; Gaz. vol. 215; p. 973.
- Fort Pitt Bedding Co., Pittsburgh, Pa. Bed-springs. No. 105,159; July 6; Gaz. vol. 216; p. 324.
- Fort Worth Chemical Company, Fort Worth, Tex. Medicines for venereal diseases. No. 106,319; Oct. 19; Gaz. vol. 219; p. 921.
- Foster, Annie A., Atlanta, Ga. Printed score-cards. No. 104,053; Apr. 27; Gaz. vol. 213; p. 1443.
- Foster, Charles M., Bellingham, Wash. Dry-shampoo preparations. No. 101,840; Jan. 12; Gaz. vol. 210; p. 712.
- Foster Chemical Co., Wilmington, Del., and Brooklyn, N. Y. Adhesives. No. 102,398; Feb. 9; Gaz. vol. 211; p. 635.
- Four Wheel Drive Auto Co., Clintonville, Wis. Motor-driven trucks. No. 107,444; Nov. 30; Gaz. vol. 220; p. 1715.
- Fowler Nail Co., The, Seymour, Conn. Horseshoe-nails. No. 104,872; June 22; Gaz. vol. 215; p. 1258.
- Fox Chemical Company, The, Omaha, Nebr. Foot-lotion. No. 105,530; Aug. 3; Gaz. vol. 217; p. 335.
- Fox Novelty Company, The, Berea, Ohio. Instruction-boards having shiftable characters. No. 106,591; Oct. 26; Gaz. vol. 219; p. 1228.
- Francis H. Leggett & Co., New York, N. Y. Tea. No. 104,070; Apr. 27; Gaz. vol. 213; p. 1443.
- Francé Corset Company, Inc., New York, N. Y. Corsets. No. 101,627; Jan. 5; Gaz. vol. 210; p. 393.
- Frank Adam Electric Co., St. Louis, Mo. Semi-indirect electric-lighting fixtures. No. 107,040; Nov. 9; Gaz. vol. 220; p. 672.
- Frank H. Fleer Corporation, Philadelphia, Pa. Chewing-gum and candy. No. 104,506; June 1; Gaz. vol. 215; p. 319.
- Frank H. Stewart Electric Co., Philadelphia, Pa. Certain named electrical apparatus and supplies. No. 104,270; May 11; Gaz. vol. 214; p. 679.
- Frank Ridlon Company, Boston, Mass. Electrical vacuum-cleaners. No. 106,902; Nov. 2; Gaz. vol. 220; p. 345.
- Frank Tea & Spice Co., Cincinnati, Ohio. Certain named foods. No. 105,196; July 13; Gaz. vol. 216; p. 657.
- Franke, Christoph F., Ashippun, Wis. Brick-cheese. No. 102,274; Feb. 2; Gaz. vol. 211; p. 280.
- Franklin Baker Company, The, Philadelphia, Pa. Shredded coconut. No. 102,355; Feb. 9; Gaz. vol. 211; p. 634.
- Franklin Co., Jersey City, N. J. Medicinal preparation for malaria, chills and fever, &c. No. 102,083; Jan. 26; Gaz. vol. 210; p. 1389.
- Franklin MacVeagh & Company, Chicago, Ill. Ginger-ale and root-beer. No. 103,697; Apr. 13; Gaz. vol. 213; p. 741.
- Franklin MacVeagh & Company, Chicago, Ill. Grape-juice and non-intoxicating beverage made from same. No. 107,271; Nov. 16; Gaz. vol. 220; p. 1039.
- Franklin Sugar Refining Co., The, Philadelphia, Pa. Confectioners' sugar. No. 107,706; Dec. 21; Gaz. vol. 221; p. 1036.
- Frantz Premier Company, The, Cleveland, Ohio. Electric clothes-washers. No. 106,955; Nov. 9; Gaz. vol. 220; p. 670.
- Franzlich, Max, Brooklyn, N. Y. Remedy for indigestion, liver complaints, and chronic catarrh. No. 107,842; Dec. 28; Gaz. vol. 221; p. 1448.
- Frayser, Frederick H., Richmond, Va. Stock food. No. 104,766; June 15; Gaz. vol. 215; p. 973.
- Fred Gretsch Mfg. Co., New York, N. Y. Musical-instrument strings. No. 103,869; Apr. 20; Gaz. vol. 213; p. 1111.
- Fred Gretsch Mfg. Co., The, New York, N. Y. Violin-strings, accordions, concertinas, &c. No. 104,146; May 4; Gaz. vol. 214; p. 340.
- Fred L. Norton & West Corporation, Binghamton, N. Y. Certain named foods. No. 101,790; Jan. 12; Gaz. vol. 210; p. 711.
- Fred Miller Brewing Co., Milwaukee, Wis. Beer. No. 107,578; Dec. 14; Gaz. vol. 221; p. 731.
- Frederick Doble & Sons, London and Dewsbury, England. Certain named articles of clothing. No. 101,923; Jan. 19; Gaz. vol. 210; p. 1060.
- Frederick Stearns & Co., Detroit, Mich., and New York, N. Y. Soaps. No. 103,872; Apr. 20; Gaz. vol. 213; p. 1111.
- Frederick W. Lipps Company of Baltimore City, Baltimore, Md. Cocoa prepared ready for use. No. 102,127; Jan. 26; Gaz. vol. 210; p. 1390.
- Frederick W. Lipps Company of Baltimore City, The, Baltimore, Md. Breakfast-cocoa, lozenges, and chewing-gum. No. 107,324; Dec. 28; Gaz. vol. 221; p. 1448.
- Free Sewing Machine Co., Rockford, Ill. Sewing-machines and parts thereof. No. 102,275; Feb. 2; Gaz. vol. 211; p. 280.
- Freeman, Chappell, Marshall, N. C. Cancer treatment. No. 107,058; Nov. 9; Gaz. vol. 220; p. 673.

Alphabetical list of registrants of trade-marks—Continued.

- Freeman-Summer Co., New York, N. Y. Press-cloth for oil-mills. No. 105,839; Aug. 24; Gaz. vol. 217; p. 1335.
- Freeman, Walter K., Oscawana, N. Y. Composition flooring. No. 106,956; Nov. 9; Gaz. vol. 220; p. 670.
- French Feather Novelty & Hat Co. Inc., New York, N. Y. Hats. No. 102,921; Mar. 2; Gaz. vol. 212; p. 324.
- French, Howard B., Philadelphia, Pa. Structural cement. No. 105,016; June 29; Gaz. vol. 215; p. 1495.
- French & Ward, New York, N. Y. Cotton, cotton and wool, and woolen piece goods. No. 106,593; Oct. 26; Gaz. vol. 219; p. 1228.
- Frese, Rosa B., Santa Rosa, Cal. Grape catsup. No. 107,606; Dec. 14; Gaz. vol. 221; p. 732.
- Fresno Fruit Growers Co., Fresno, Cal. Deciduous fruits. No. 101,937; Jan. 19; Gaz. vol. 210; p. 1060.
- Freydberg Bros., New York, N. Y. Seam-bindings. Nos. 104,091-2; Apr. 27; Gaz. vol. 213; p. 1444.
- Freydberg Brothers, New York, N. Y. Bias seam-binding. No. 107,166; Nov. 16; Gaz. vol. 220; p. 1036.
- Frick & Kaupke, Cedar Rapids, Iowa. Coffee. No. 107,059; Nov. 9; Gaz. vol. 220; p. 673.
- Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace edgings and insertions and ribbons. No. 105,458; July 27; Gaz. vol. 216; p. 1314.
- Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Braids. No. 105,459; July 27; Gaz. vol. 216; p. 1314.
- Friedman, Joseph H., New York, N. Y. Seam-bindings and bias folds. No. 107,607; Dec. 14; Gaz. vol. 221; p. 732.
- Friend Brothers, Melrose, Mass. Canned clams and fruits. No. 104,002; Apr. 27; Gaz. vol. 213; p. 1441.
- Friend & Co., Henry S., New York, N. Y. Sport-coats, women's coats, outer skirts, and undershirts. No. 107,550; Dec. 7; Gaz. vol. 221; p. 347.
- Fries, Harold H., New York, N. Y. Grape beverage. No. 105,840; Aug. 24; Gaz. vol. 217; p. 1335.
- Fritz Company, William, Lester, Pa. Cough-drops and catarrh-bonbons. No. 104,873; June 22; Gaz. vol. 215; p. 1258.
- Fritz Schulz jun. Aktiengesellschaft, Leipzig, Germany. Means for destroying vermin and noxious insects. No. 106,227; Oct. 19; Gaz. vol. 219; p. 918.
- Frobese, Henry G., Toledo, Ohio. Salve or ointment. No. 106,322; Oct. 19; Gaz. vol. 219; p. 921.
- Froidevaux, Arnold, New York, N. Y. Toilet preparation for the hair and scalp. No. 107,255; Nov. 16; Gaz. vol. 220; p. 1038.
- Frye & Co., Jed, New York, N. Y. Fish. No. 105,261; July 13; Gaz. vol. 216; p. 659.
- Fuchs-Kelly Company, New York, N. Y. Supercoolers. No. 105,724; Aug. 17; Gaz. vol. 217; p. 1049.
- Fuhrer-Ford Milling Co., Mount Vernon, Ind. Wheat-flour. No. 106,957; Nov. 9; Gaz. vol. 220; p. 670.
- Fuld and Hatch Knitting Company, Albany, N. Y. Certain named knitted garments. No. 106,323; Oct. 19; Gaz. vol. 219; p. 921.
- Fulks, Thomas L., Gaithersburg, Md. Fertilizer. No. 106,324; Oct. 19; Gaz. vol. 219; p. 921.
- Fuller, Mrs. Alice, San Antonio, Tex. Cleaning and polishing compound for furniture and upholstering-leather. No. 102,652; Feb. 16; Gaz. vol. 211; p. 954.
- Fuller, Miles C., Peoria, Ill. Certain named draftsman supplies. No. 106,760; Oct. 26; Gaz. vol. 219; p. 1233.
- Fully & Lewis, Los Angeles, Cal. Foot-powder. No. 104,721; June 15; Gaz. vol. 215; p. 972.
- Fulton Rubber Type Co., Elizabeth, N. J. Rubber-stamp inks and inking-pads. No. 103,383; Mar. 30; Gaz. vol. 212; p. 1686.
- Fussell Ice Cream Co., New York, N. Y. Ice-cream products. No. 107,608; Dec. 14; Gaz. vol. 221; p. 732.
- Fussell Ice Cream Co., New York, N. Y. Ice-cream and water-ices. No. 107,843; Dec. 28; Gaz. vol. 221; p. 1448.
- Fussner, Joseph W., Philadelphia, Pa. Infants' and misses' hosiery. No. 107,060; Nov. 9; Gaz. vol. 220; p. 673.
- G. Bluthardt & Co. Inc., Chicago, Ill. Cigars. No. 106,289; Oct. 19; Gaz. vol. 219; p. 920.
- G G G Metal Stamping Company, Warren, Pa. Casters. No. 102,276; Feb. 2; Gaz. vol. 211; p. 280.
- Gabbott, Edgar P., Manchester, England. Steam and water meters and recorders and indicating apparatus. No. 104,797; June 15; Gaz. vol. 215; p. 974.
- Gabilla, Henriette, Paris, France. Soap. No. 105,999; Sept. 14; Gaz. vol. 218; p. 599.
- Galehouse, F. C., Taft, Cal. Tonic laxative. No. 103,948; Apr. 20; Gaz. vol. 213; p. 1114.
- Galitzki, Leo, Chicago, Ill. Hats. No. 101,938; Jan. 19; Gaz. vol. 210; p. 1060.
- Galloway, George W., New York, N. Y. Disinfectant. No. 106,228; Oct. 19; Gaz. vol. 219; p. 918.
- Gallet, Pellerin et Cie., Paris, France. Soaps, soap pastes and powders. No. 101,629; Jan. 5; Gaz. vol. 210; p. 393.
- Gamblin, Edward, Desloge, Mo. Hog-tonic. No. 106,958; Nov. 9; Gaz. vol. 220; p. 670.
- Gambogi & Co., Egidio, Lucca, Italy. Olive-oil. No. 107,256; Nov. 16; Gaz. vol. 220; p. 1038.
- Gannon Grocery Company, Marquette, Mich. Rice. No. 104,302; May 18; Gaz. vol. 214; p. 1021.
- Gano Downes Clothing Co., The, Denver, Colo. Outer shirts, undershirts, union suits, drawers, and pajamas. No. 105,654; Aug. 10; Gaz. vol. 217; p. 695.
- Garage Equipment Manufacturing Company, Milwaukee, Wis. Automobile and motor-cycle accessories. No. 102,838; Feb. 23; Gaz. vol. 211; p. 1260.
- Gardner, Herbert S., St. Louis, Mo. Razors. No. 103,650; Apr. 13; Gaz. vol. 213; p. 739.
- Gardner, Herbert S., St. Louis, Mo. Cushion razor-strops. No. 103,810; Apr. 13; Gaz. vol. 213; p. 744.
- Gardner Pine Needle Extract Company, The, Sharon Springs, N. Y. Soap. No. 107,227; Nov. 16; Gaz. vol. 220; p. 1038.
- Garfield & Co., New York, N. Y. Sedlitz-powders. No. 105,348; July 20; Gaz. vol. 216; p. 1008.
- Garford Company, The, Elyria, Ohio. Automobiles. No. 102,561; Feb. 16; Gaz. vol. 211; p. 951.
- Garner & Co., W. H., Norwich, N. Y. Furniture-polish. No. 105,197; July 13; Gaz. vol. 216; p. 657.
- Garrett, Paul, Norfolk, Va. Carbonated non-alcoholic beverages. No. 105,959; Aug. 31; Gaz. vol. 217; p. 1658.
- Garriss, James H., Newton, N. C. Cough compound. No. 107,665; Dec. 14; Gaz. vol. 221; p. 733.
- Garthwaite Brothers, Dewsbury, England. Preparation for scouring and cleaning clothing and textile fabrics. No. 107,681; Dec. 21; Gaz. vol. 221; p. 1035.
- Gartside, Joseph H., Philadelphia, Pa. Cleaning preparation for removing iron-rust, ink, &c., stains. No. 101,630; Jan. 5; Gaz. vol. 210; p. 393.
- Gauthier, Firm of Albert, and Dominique St. Pierre, Lawrence, Mass. Remedy for rheumatism. No. 105,841; Aug. 24; Gaz. vol. 217; p. 1335.
- Gaw-O'Hara Envelope Company, Chicago, Ill. Envelopes, letter and bill heads, and blank books. No. 102,709; Feb. 23; Gaz. vol. 211; p. 1256.
- Gazzolo, Frank H., Chicago, Ill. Shampoo-powder. No. 106,151; Oct. 12; Gaz. vol. 219; p. 583.
- Gebhardt Chili Powder Co., San Antonio, Tex. Chili powder, chili-con-carne, frijoles, tamales, rice with chili, &c. No. 102,562; Feb. 16; Gaz. vol. 211; p. 951.
- Geer, George J., New York, N. Y. Certain named materials and piece goods or combinations of same. Nos. 103,424-5; Apr. 6; Gaz. vol. 213; p. 351.
- Geer, George J., New York, N. Y. Woolen, worsted, silk, mohair, and cotton piece goods. No. 103,426; Apr. 6; Gaz. vol. 213; p. 351.
- Geety, W. G., New York, N. Y. Alkaline antiseptic and a non-toxic prophylactic preparation. No. 106,229; Oct. 19; Gaz. vol. 219; p. 918.
- Geiger-Fishback Co., The, Indianapolis, Ind. Coffee. No. 107,257; Nov. 16; Gaz. vol. 220; p. 1038.
- Gem City Specialty Company, The, Dayton, Ohio. Chewing-gum. No. 107,325; Nov. 23; Gaz. vol. 220; p. 1367.
- General Baking Company, New York, N. Y. Bread. No. 103,230; Mar. 23; Gaz. vol. 212; p. 1354.
- General Chemical Company, New York, N. Y. Baking-powder. No. 104,798; June 15; Gaz. vol. 215; p. 974.
- General Devices & Fittings Co., Chicago, Ill. Certain named electrical apparatus and supplies. No. 103,058; Mar. 16; Gaz. vol. 212; p. 1051.
- General Electric Co., The, London, England. Glass globes and bowls. No. 106,761; Oct. 26; Gaz. vol. 219; p. 1233.
- General Electric Company, Schenectady, N. Y. Glass shades and reflectors for artificial light. No. 103,692; Apr. 13; Gaz. vol. 213; p. 740.
- General Electric Company, Schenectady, N. Y. Glass shades and reflectors for illuminating purposes. No. 103,693; Apr. 13; Gaz. vol. 213; p. 740.
- General Electric Company, Schenectady, N. Y. Electric incandescent lamps. No. 104,017; Apr. 27; Gaz. vol. 213; p. 1442.
- General Electric Company, Schenectady, N. Y. Electric incandescent lamps. Nos. 104,169-70; May 4; Gaz. vol. 214; p. 340.
- General Electric Company, Schenectady, N. Y. Dynamo-electric machines. No. 105,160; July 6; Gaz. vol. 216; p. 324.
- General Electric Company, Schenectady, N. Y. Printed publication. No. 106,959; Nov. 9; Gaz. vol. 220; p. 670.
- General Fireproofing Co., Youngstown, Ohio. Construction materials. No. 102,087; Jan. 26; Gaz. vol. 210; p. 1389.
- General Purification Co., Madison, Wis. Antiseptics, germicides, and deodorants. Nos. 107,167-8; Nov. 16; Gaz. vol. 220; p. 1036.
- General Roofing Manufacturing Company, East St. Louis, Ill. Certain named construction materials. No. 103,781; Apr. 13; Gaz. vol. 213; p. 743.
- General Specialties Co., Louisville, Ky. Scouring-powder. No. 107,781; Dec. 28; Gaz. vol. 221; p. 1446.
- Geneva Cutlery Company, Geneva, N. Y. Razors, knives, scissors, shears, and parts thereof. No. 106,853; Nov. 2; Gaz. vol. 220; p. 344.
- Genna, Vincenzo, De Ridder, La. Toothache remedy. No. 103,286; Mar. 30; Gaz. vol. 212; p. 1683.
- Gennarelli, Macario, South Chicago, Ill. Toothache remedy. No. 106,152; Oct. 12; Gaz. vol. 219; p. 583.
- Genung and Mayer, West Haven, Conn. Anesthetics, obtundents, &c., pharmaceutical preparations. No. 104,507; June 1; Gaz. vol. 215; p. 319.

- Geo. B. Carpenter & Co., Chicago, Ill. Sash-cord. No. 104,864; June 22; Gaz. vol. 215; p. 1258.
- Geo. Borgfeldt & Co., New York, N. Y. Leather and fabric gloves, rompers, children's dresses, &c. No. 102,670; Feb. 23; Gaz. vol. 211; p. 1255.
- Geo. Borgfeldt & Co., New York, N. Y., assignor to Hanover Vulcanite Co. Rubber combs. No. 102,671; Feb. 23; Gaz. vol. 211; p. 1255.
- Geo. Borgfeldt & Co., New York, N. Y. Enamel, polish, paste, bleach, pomade, and tints for the finger-nails. No. 102,672; Feb. 23; Gaz. vol. 211; p. 1255.
- Geo. Borgfeldt & Co., New York, N. Y. Hollow aluminum and enameled iron ware. No. 102,673; Feb. 23; Gaz. vol. 211; p. 1255.
- Geo. Borgfeldt & Co., New York, N. Y. Bandannas, handkerchiefs, neckerchiefs, and shawls. No. 102,674; Feb. 23; Gaz. vol. 211; p. 1255.
- Geo. Borgfeldt & Co., New York, N. Y. Hollow aluminum and enameled metal ware. No. 102,675; Feb. 23; Gaz. vol. 211; p. 1255.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named paper and stationery supplies. No. 102,676; Feb. 23; Gaz. vol. 211; p. 1255.
- Geo. Borgfeldt & Co., New York, N. Y. Hollow aluminum and enameled metal ware. Nos. 103,218-19; Mar. 23; Gaz. vol. 212; p. 1353.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named stationery supplies. No. 103,886; Apr. 20; Gaz. vol. 213; p. 1112.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named paper and stationery supplies. Nos. 103,887-8; Apr. 20; Gaz. vol. 213; p. 1112.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named toys. No. 104,200; May 11; Gaz. vol. 214; p. 677.
- Geo. Borgfeldt & Co., New York, N. Y. Aluminum and enameled metal ware. No. 104,413; May 25; Gaz. vol. 214; p. 1317.
- Geo. Borgfeldt & Co., New York, N. Y. Certain articles made of certain named materials. (not precious metal.) No. 104,704; June 15; Gaz. vol. 215; p. 971.
- Geo. Borgfeldt & Co., New York, N. Y. Portfolios, pocket-books, baggage and vehicle straps, &c. No. 104,927; June 29; Gaz. vol. 215; p. 1493.
- Geo. Borgfeldt & Co., New York, N. Y. Hollow aluminum ware. No. 104,928; June 29; Gaz. vol. 215; p. 1493.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named paper and stationery supplies. No. 105,149; July 6; Gaz. vol. 216; p. 324.
- Geo. Borgfeldt & Co., New York, N. Y. Dolls. No. 105,150; July 6; Gaz. vol. 216; p. 324.
- Geo. Borgfeldt & Co., New York, N. Y. Ready-mixed paints, enamels, and varnishes having a cellulose base. No. 105,931; Aug. 31; Gaz. vol. 217; p. 1657.
- Geo. Borgfeldt & Co., New York, N. Y. Urns, vases, trays, pedestals for statuary, &c. No. 105,932; Aug. 31; Gaz. vol. 217; p. 1657.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named netted and textile fabrics. No. 105,933; Aug. 31; Gaz. vol. 217; p. 1657.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named articles of crockery, earthenware, and porcelain. No. 105,934; Aug. 31; Gaz. vol. 217; p. 1657.
- Geo. Borgfeldt & Co., New York, N. Y. Toilet, cloth, tooth, nail, and hair brushes. No. 105,935; Aug. 31; Gaz. vol. 217; p. 1657.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named games and toys. No. 107,146; Nov. 16; Gaz. vol. 220; p. 1035.
- Geo. Borgfeldt & Co., New York, N. Y. Certain named games, toys, and sporting goods. No. 107,147; Nov. 16; Gaz. vol. 220; p. 1035.
- Geo. Borgfeldt & Co., New York, N. Y. Dolls and toy figures. No. 107,598; Dec. 14; Gaz. vol. 221; p. 731.
- Geo. C. Bagley Elevator Co., Minneapolis, Minn., and Glenham, S. D. Wheat-flour. No. 103,937; Apr. 20; Gaz. vol. 213; p. 1113.
- Geo. H. Bowman Company, Cleveland, Ohio. Certain named household utensils. No. 104,415; May 25; Gaz. vol. 214; p. 1317.
- Geo. H. Lee Company, Omaha, Nebr. Remedy for diseases of the skin and semi-exterior mucous membranes. No. 100,344; Oct. 19; Gaz. vol. 219; p. 921.
- Geo. H. Snow Co., Brockton, Mass. Soles or bottoms of boots and shoes made of textile fiber. No. 105,241; July 13; Gaz. vol. 216; p. 659.
- Geo. H. Strietmann's Sons Co., The, Cincinnati, Ohio. Oyster-crackers. No. 104,851; June 22; Gaz. vol. 215; p. 1257.
- Geo. P. Braun Company, Chicago, Ill. Oleomargarin. No. 107,660; Dec. 14; Gaz. vol. 221; p. 733.
- Geo. S. Cox & Bro. Inc., Philadelphia, Pa. Haircloth. No. 107,735; Dec. 28; Gaz. vol. 221; p. 1445.
- Geo. S. Daugherty Company, Pittsburgh, Pa. Certain named canned and bottled vegetables and fruits. No. 105,292; July 13; Gaz. vol. 216; p. 660.
- Geo. S. Daugherty Company, Pittsburgh, Pa. Certain named canned and bottled vegetables and fruits. No. 105,242; July 20; Gaz. vol. 216; p. 1008.
- Geo. S. Harrington Company, Boston, Mass. Gimp. No. 102,630; Feb. 16; Gaz. vol. 211; p. 953.
- Geo. W. Elabon Company, The, Philadelphia, Pa. Linoleum. Nos. 102,361-2; Feb. 9; Gaz. vol. 211; p. 634.
- Geo. W. Elabon Company, Philadelphia, Pa. Floor-cloth. No. 103,901; Apr. 27; Gaz. vol. 213; p. 1441.
- George B. Graft Company, Boston, Mass. Metallic pens, file-signals, index-tabs, &c. No. 103,233; Mar. 23; Gaz. vol. 212; p. 1354.
- George Borgfeldt & Co., New York, N. Y. Certain toys and favors made of certain materials or combinations thereof. No. 102,669; Feb. 23; Gaz. vol. 211; p. 1255.
- George J. Hales Co., Rocky Mount, N. C. Canned vegetables, wheat-flour, and pepper. No. 103,100; Mar. 16; Gaz. vol. 212; p. 1052.
- George R. Jones Company, Manchester, N. H. Boots and shoes of leather or canvas, with leather, felt, or rubber soles. No. 107,474; Dec. 7; Gaz. vol. 221; p. 345.
- George Ringer & Company, New York, N. Y. Beer. No. 107,285; Nov. 16; Gaz. vol. 220; p. 1039.
- George S. Harrington Company, Boston, Mass. Wool and cotton tapestries, silk and cotton damasks, corduroys, cretonnes, and plushes, &c. No. 101,943; Jan. 19; Gaz. vol. 210; p. 1060.
- George T. Budd Company, Washington, D. C. Ice-cream, sherbets, and ices. No. 103,993; Apr. 27; Gaz. vol. 213; p. 1441.
- George W. Dover Company, Providence, R. I. Gold and gold-plated match-cases. No. 107,805; Dec. 28; Gaz. vol. 221; p. 1447.
- George Ziegler Co., Milwaukee, Wis. Chocolate-coated candy. No. 102,552; Feb. 9; Gaz. vol. 211; p. 639.
- Gerber & Co., Thoun, Switzerland. Cheese. No. 105,586; Aug. 10; Gaz. vol. 217; p. 693.
- Gerhard Mennen Chemical Co., Newark, N. J. Absorbent and antiseptic dusting-powder. No. 106,464; Oct. 19; Gaz. vol. 219; p. 925.
- Gerhart, R. L., Lancaster, Pa. Coffee. Nos. 107,061-2; Nov. 9; Gaz. vol. 220; p. 673.
- German American Brewing Co., Buffalo, N. Y. Beer. No. 104,303; May 18; Gaz. vol. 214; p. 1021.
- German American Coffee Company, Omaha, Nebr. Coffee, tea, spices, and flavoring extracts. No. 105,390; July 20; Gaz. vol. 216; p. 1009.
- German Buffet, The, Philadelphia, Pa. Sandwiches and delicatessen. No. 106,960; Nov. 9; Gaz. vol. 220; p. 670.
- German Novelty Co., New York, N. Y. Dolls. Nos. 103,651-2; Apr. 13; Gaz. vol. 213; p. 739.
- Germantown Almegum Manufacturing Co., Philadelphia, Pa. Rubber, leather, and fabric tires. No. 105,842; Aug. 24; Gaz. vol. 217; p. 1335.
- Gershel & Co., A., New York, N. Y. Outer coats, cloaks, and suits for men, women, misses, and children. No. 105,655; Aug. 10; Gaz. vol. 217; p. 695.
- Gesellschaft für Fett- und Oel-Raffination mit beschränkter Haftung, Hanover, Germany. Soaps. No. 102,876; Feb. 23; Gaz. vol. 211; p. 1261.
- Gestrung Wagon Co., St. Louis, Mo. Farm and delivery wagons. No. 105,892; Aug. 24; Gaz. vol. 217; p. 1336.
- Gender, Paeschke & Frey Co., Milwaukee, Wis. Certain named hardware supplies. No. 103,059; Mar. 16; Gaz. vol. 212; p. 1051.
- Gianella, Mary, New York, N. Y. Insecticides. No. 105,813; Aug. 17; Gaz. vol. 217; p. 1052.
- Gibbs, M. G., Washington, D. C. Insecticides. No. 105,262; July 13; Gaz. vol. 216; p. 659.
- Gibbs Preserving Co., Baltimore, Md. Canned fruits, vegetables, sauer-kraut, hominy, and fresh apples. No. 102,088; Jan. 26; Gaz. vol. 210; p. 1389.
- Gibson Automobile Company, Indianapolis, Ind. Shock-absorbers and brake-band lining. No. 103,060; Mar. 16; Gaz. vol. 212; p. 1051.
- Gibson Automobile Company, Indianapolis, Ind. Inner tubes for casings and pneumatic tires. No. 103,875; Apr. 20; Gaz. vol. 213; p. 1112.
- Gibson, Gertrude L., New York, N. Y. Cold-cream, manicuring paste and polish, &c. No. 106,854; Nov. 2; Gaz. vol. 220; p. 344.
- Giddings, Fred M., Galesburg, Ill. Fuel for increasing the efficiency of gasoline-engines. No. 105,513; Aug. 3; Gaz. vol. 217; p. 335.
- Gilbert & Co., Owensboro, Ky. Preparation for the treatment of certain named ailments. No. 102,683; Feb. 23; Gaz. vol. 211; p. 1255.
- Gilbert, Ezra N., Portland, Oreg. Medical compound for appendicitis, rheumatism, &c. No. 107,445; Nov. 30; Gaz. vol. 220; p. 1715.
- Gilbey, Harry N., London, England. Muscatel wine. No. 106,230; Oct. 19; Gaz. vol. 219; p. 918.
- Gillespie, Edward, Los Angeles, Cal. English home-made fruit cake. No. 103,560; Apr. 6; Gaz. vol. 213; p. 356.
- Gillespie, Shields & Company, Knoxville, Tenn. Boys' outer suits, overcoats, pants, and knickerbockers. No. 102,089; Jan. 26; Gaz. vol. 210; p. 1389.
- Gillinder & Sons, Inc., Philadelphia, Pa. Glass lamp globes, shades, reflectors, &c. No. 101,733; Jan. 12; Gaz. vol. 210; p. 709.
- Gilmore, John M., Hollidaysburg, Pa. Charcoal compound for stomach and intestinal diseases and a laxative pill. No. 105,587; Aug. 10; Gaz. vol. 217; p. 693.
- Gilster, Eva, Chester, Ill. Self-rising wheat-flour. No. 102,941; Mar. 2; Gaz. vol. 212; p. 324.
- Gimbel Brothers Incorporated, Philadelphia, Pa. Ladies' suits and cloaks. No. 101,841; Jan. 12; Gaz. vol. 210; p. 712.

Alphabetical list of registrants of trade-marks—Continued.

- Giordano, The House of, San Antonio, Tex. Certain named furniture and upholstery. No. 102,105; Jan. 26; Gaz. vol. 210; p. 1390.
- Girard & Comb. Sterling Junction, Mass. Screw-holder. No. 102,684; Feb. 23; Gaz. vol. 211; p. 1255.
- Girard Grocery Company, Philadelphia, Pa. Canned peas, corn, and tomatoes. No. 104,558; June 1; Gaz. vol. 215; p. 320.
- Grindt, Arthur F., Bellville, Tex. Nail-files. No. 105,161; July 6; Gaz. vol. 216; p. 324.
- Girod, Ella, New York, assignor to Crystella Company, Brooklyn, N. Y. Glass-cleaning compound. No. 105,200; July 13; Gaz. vol. 216; p. 657.
- Giunta, Anthony A., Philadelphia, Pa. Cotton-seed oil slightly flavored with olive-oil. No. 105,201; July 13; Gaz. vol. 216; p. 657.
- Gladney Milling Company, Sherman, Tex. Wheat-flour. No. 102,277; Feb. 2; Gaz. vol. 211; p. 280.
- Glantz & Salkind, New York, N. Y. Salad-oil. No. 103,653; Apr. 13; Gaz. vol. 213; p. 739.
- Glaser & Rosenbaum, New York, N. Y. Boys' clothing, blouses, and knickerbockers. No. 106,594; Oct. 26; Gaz. vol. 219; p. 1228.
- Gleason-Tielbout Glass Company, New York, N. Y. Glass shades, globes and reflectors for artificial illumination. No. 103,694; Apr. 13; Gaz. vol. 213; p. 740.
- Glee Cola Co., Birmingham, Ala. Non-alcoholic and carbonated beverage. No. 104,830; June 22; Gaz. vol. 215; p. 1257.
- Gleeson, George A., Chicago, Ill. Hair-fasteners. No. 106,961; Nov. 9; Gaz. vol. 220; p. 670.
- Glessner Medicine Co., The, Findlay, Ohio. Ointment. No. 106,962; Nov. 9; Gaz. vol. 220; p. 670.
- Glickman, Harris, New York, N. Y. Soft drinks and syrup and flavoring extract for same. No. 103,231; Mar. 23; Gaz. vol. 212; p. 1354.
- Globe Ear-Phone Company, Boston, Mass. Ear-phones or audiphones. No. 106,426; Oct. 19; Gaz. vol. 219; p. 924.
- Globe Optical Company, Boston, Mass. Lenses for spectacles and eyeglasses. No. 105,263; July 13; Gaz. vol. 216; p. 659.
- Globe Overall Company, The, Cincinnati, Ohio. Overalls. No. 107,169; Nov. 16; Gaz. vol. 220; p. 1036.
- Globe Soap Company, The, Cincinnati, Ohio. Cleansing, scouring, and polishing compound. No. 105,202; July 13; Gaz. vol. 216; p. 658.
- Gloversville Leather Manufacturing Corporation, Gloversville, N. Y. Glove, shoe, &c. leather. No. 103,232; Mar. 23; Gaz. vol. 212; p. 1354.
- Glück, Max, New York, N. Y. Dental cream, mouth-wash, and laxative tablet. No. 103,427; Apr. 6; Gaz. vol. 213; p. 351.
- Godfree, Felton & Co., E., Westminster, England. Liqueur. No. 104,508; June 1; Gaz. vol. 215; p. 319.
- Godfrey Mfg. Co. Ltd., Leicester, England. Pulley-blocks, hoisting-machines, chain hoists, and cranes. Nos. 101,842-4; Jan. 12; Gaz. vol. 210; p. 712.
- Goertz, Harold. (See Danish Butter Import Co., assignor.)
- Gold Band Chewing Gum Co., Burlington, Iowa. Chewing-gum, peanuts. No. 102,877; Feb. 23; Gaz. vol. 211; p. 1261.
- Gold Medal Camp Furniture Manufacturing Co., Racine, Wis. Beds, chairs, cots, litters, &c. No. 101,939; Jan. 19; Gaz. vol. 210; p. 1060.
- Goldberg, Bowen & Co., San Francisco, Cal. Certain named foods. No. 102,399; Feb. 9; Gaz. vol. 211; p. 635.
- Goldberg, Bowen & Co., San Francisco, Cal. Whisky, gin, and brandy. No. 103,316; Mar. 30; Gaz. vol. 212; p. 1684.
- Goldberg, Bowen & Co., San Francisco, Cal. Certain named foods. No. 106,427; Oct. 19; Gaz. vol. 219; p. 924.
- Goldberg, Joseph, Philadelphia, Pa. Combination outer and under garments. No. 104,722; June 15; Gaz. vol. 215; p. 972.
- Goldberg, Joseph, Portland, Oreg. Cigarettes. No. 105,495; July 27; Gaz. vol. 216; p. 1315.
- Golden Grain Juice Company, Inc., Minneapolis, Minn. Non-alcoholic carbonated beverage. No. 105,893; Aug. 24; Gaz. vol. 217; p. 1336.
- Golden Grain Milling Company, East St. Louis, Ill. Feed for live stock. No. 101,734; Jan. 12; Gaz. vol. 210; p. 709.
- Golden, Jacob, Newark, N. J. Candies. No. 103,561; Apr. 6; Gaz. vol. 213; p. 356.
- Golden Seal Tea Co., Beaver Falls, Pa. Teas. No. 106,596; Oct. 26; Gaz. vol. 219; p. 1228.
- Goldenberg, Washington, D. C. Hats and caps. No. 105,814; Aug. 17; Gaz. vol. 217; p. 1052.
- Goldman, I. Edwin, New York, N. Y. Cloaks, coats, suits, and dresses. No. 104,831; June 22; Gaz. vol. 215; p. 1257.
- Goldman, Michael, New York, N. Y. Dress, negligée, and work shirts. No. 106,428; Oct. 19; Gaz. vol. 219; p. 924.
- Goldsmith & Son, L., Newark, N. J. Wardrobe-trunks. No. 104,018; Apr. 27; Gaz. vol. 213; p. 1442.
- Goldsohl, Frank J., New York, N. Y. Imitation, &c., pearls, rubies, emeralds, sapphires, and other gems. No. 107,782; Dec. 28; Gaz. vol. 221; p. 1446.
- Goldstein, Abram, Easton, Pa. Liniment. No. 105,631; Aug. 10; Gaz. vol. 217; p. 694.
- Goldstein & Co., A., New York, N. Y. Shirts. No. 102,605; Feb. 16; Gaz. vol. 211; p. 952.
- Goldstein, Isidore, Paterson, N. J. Laxative. No. 102,400; Feb. 9; Gaz. vol. 211; p. 635.
- Goldstein, Sol, Chicago, Ill. Butter and eggs. No. 104,449; June 1; Gaz. vol. 215; p. 317.
- Goodell-Pratt Company, Greenfield, Mass. Drills. No. 105,317; June 20; Gaz. vol. 216; p. 1007.
- Goodlatte & Sons, T. R., New York, N. Y. Oil-cloth. No. 103,654; Apr. 13; Gaz. vol. 213; p. 739.
- Goodman, Charles J., New York, N. Y. Overcoats, coats, vests, and trousers. No. 102,090; Jan. 26; Gaz. vol. 210; p. 1389.
- Goodman, Nathaniel, Philadelphia, Pa. Outer shirts. No. 105,656; Aug. 10; Gaz. vol. 217; p. 695.
- Goodrich Drug Co., Omaha, Nebr. Toilet soaps. No. 106,000; Sept. 14; Gaz. vol. 218; p. 599.
- Goodrich Drug Company, Omaha, Nebr. Perfumes, toilet waters, and sachet-powders. No. 105,265; July 13; Gaz. vol. 216; p. 659.
- Goodwin Shoe Co., Inc., Rochester, N. Y. Children's leather shoes. No. 102,091; Jan. 26; Gaz. vol. 210; p. 1389.
- Goodyear, A. B., Bloomdale, Ohio. Load-binders. No. 102,401; Feb. 9; Gaz. vol. 211; p. 635.
- Goodyear Tire and Rubber Company, Akron, Ohio. Rubber belting. No. 101,845; Jan. 12; Gaz. vol. 210; p. 712.
- Goodyear Tire and Rubber Company, The, Akron, Ohio. Rubber packing for machinery. No. 102,402; Feb. 9; Gaz. vol. 211; p. 635.
- Goodyear Tire and Rubber Company, The, Akron, Ohio. Soles and heels for boots and shoes. No. 106,762; Oct. 26; Gaz. vol. 219; p. 1233.
- Gordon Co., J. G., Birmingham, Ala. Medicinal rubbing-oil, cough-syrup, preparation for indigestion, &c. No. 107,326; Nov. 23; Gaz. vol. 220; p. 1367.
- Gordon, Jacob, Elizabeth, N. J. Soap. No. 102,518; Feb. 9; Gaz. vol. 211; p. 638.
- Gottlieb Bauernschmidt Straus Brewing Company, The, Baltimore, Md. Lager-beer. No. 103,853; Apr. 20; Gaz. vol. 213; p. 1111.
- Gottlieb Bauernschmidt Straus Brewing Company, The, Baltimore, Md. Lager-beer. No. 104,610; June 8; Gaz. vol. 215; p. 661.
- Gottlieb Bauernschmidt Straus Brewing Company, The, Baltimore, Md. Lager-beer. No. 106,763; Oct. 26; Gaz. vol. 219; p. 1233.
- Gottlieb Corts Gesellschaft mit Beschränkter Haftung, Remscheid-Berghausen, Germany. Files, rasps, saws, augers, screw-keys, etc. No. 103,724; Apr. 13; Gaz. vol. 213; p. 741.
- Gottschalk Co., The, Baltimore, Md. Whisky. No. 102,092; Jan. 26; Gaz. vol. 210; p. 1389.
- Gottschalk Co., The, Baltimore, Md. Whisky. No. 102,893; Mar. 2; Gaz. vol. 212; p. 323.
- Gottschalk Co., The, Baltimore, Md. Whisky. No. 104,920; June 22; Gaz. vol. 215; p. 1260.
- Gould, C. Carroll, New York, N. Y. Electric vaporizer. No. 106,764; Oct. 26; Gaz. vol. 219; p. 1233.
- Gould Storage Battery Company, New York, N. Y. Plates or electrodes for storage batteries. No. 105,391; July 20; Gaz. vol. 216; p. 1009.
- Gouvea & Co., A. S., New York, N. Y. Canned sardines. No. 102,563; Feb. 16; Gaz. vol. 211; p. 951.
- Gowan-Lenning-Brown Co., Duluth, Minn. Laundry blue, cream of tartar, baking-powder, &c. No. 101,632; Jan. 5; Gaz. vol. 210; p. 393.
- Gowan-Lenning-Brown Co., Duluth, Minn. Baking-powder. No. 101,633; Jan. 5; Gaz. vol. 210; p. 393.
- Gowan-Lenning-Brown Co., Duluth, Minn. Cigars. No. 101,634; Jan. 5; Gaz. vol. 210; p. 393.
- Gowan-Lenning-Brown Co., Duluth, Minn. Coffees and teas. No. 105,349; July 20; Gaz. vol. 216; p. 1008.
- Grady Mfg. Co., The, Long Island City, N. Y. Cleanser. No. 104,422; May 25; Gaz. vol. 214; p. 1317.
- Graf, Oscar L., New York, N. Y. Nail-polish. No. 103,161; Mar. 16; Gaz. vol. 212; p. 1054.
- Graham Glass Company, Evansville, Ind. Glass bottles, narrow-neck. No. 102,755; Feb. 23; Gaz. vol. 211; p. 1257.
- Graham, John B., Boston, Mass. Chemical combination for internal use for dyspepsia and stomach troubles. No. 107,327; Nov. 23; Gaz. vol. 220; p. 1367.
- Grahamoline Products Company, Wilkes-Barre, Pa. Carbon-remover. No. 106,325; Oct. 19; Gaz. vol. 219; p. 921.
- Gramatan Co., New York, N. Y. Treatment for dandruff. No. 107,844; Dec. 28; Gaz. vol. 221; p. 1448.
- Gramm Motor Truck Co., The, Lima, Ohio. Motor-trucks. No. 101,940; Jan. 19; Gaz. vol. 210; p. 1060.
- Grand Rapids Bedding Company, Grand Rapids, Mich. Coiled-wire spring-mattresses. Nos. 103,234-6; Mar. 23; Gaz. vol. 212; p. 1354.
- Grand Rapids Refrigerator Company, Grand Rapids, Mich. Heat-insulating material for refrigerators. No. 103,695; Apr. 13; Gaz. vol. 213; p. 741.
- Grant, Katherine K., New York, N. Y. Boys' sweaters, stockings, suits, hats, &c. No. 103,655; Apr. 13; Gaz. vol. 213; p. 739.

- Grant, Theodore P., Norwood, N. Y. Butter. No. 105,894; Aug. 24; Gaz. vol. 217; p. 1336.
- Grass & Luddy, Boston, Mass. Leather boots and shoes. No. 103,894; Apr. 20; Gaz. vol. 213; p. 1112.
- Grausam, August, New York, N. Y. Beverage-powders used as a treatment for certain named diseases. No. 107,609; Dec. 14; Gaz. vol. 221; p. 732.
- Graves, Herbert S., Columbus, Ohio. Remedy for liver troubles. No. 107,170; Nov. 16; Gaz. vol. 220; p. 1036.
- Gray, Carrie L., executrix. (See Gray, Thomas.)
- Gray Helpull Company. (See Gray, Thomas, assignor.)
- Gray, Thomas, deceased; C. L. Gray, executrix, assignor to The Gray Helpull Company, Hillsboro, N. H. Medicine for certain named ailments. No. 104,384; May 25; Gaz. vol. 214; p. 1316.
- Grean Shoulder Form & Pad Company, New York, N. Y. Stiffening-cord for clothing. No. 105,843; Aug. 24; Gaz. vol. 217; p. 1335.
- Greeley Mercantile Co., Greeley, Colo. Fresh vegetables. No. 103,264; Mar. 23; Gaz. vol. 212; p. 1355.
- Greenberg & Lave, Inc., New York, N. Y. Ladies' and children's hats. No. 103,604; Apr. 6; Gaz. vol. 213; p. 357.
- Greene, Henry C., Newbury, Mass. Fresh fruits and vegetables and fruits preserved in glass containers. No. 103,162; Mar. 16; Gaz. vol. 212; p. 1054.
- Greenebaum, Max, New York, N. Y. Writing and printing paper. No. 105,689; Aug. 10; Gaz. vol. 217; p. 696.
- Greenfield Machine Company, Greenfield, Mass. Grinding-machines. No. 102,093; Jan. 26; Gaz. vol. 210; p. 1389.
- Greenfield Tap & Die Corporation, Greenfield, Mass. Screw-cutting dies. No. 102,788; Feb. 23; Gaz. vol. 211; p. 1258.
- Greenwald Brothers Incorporated, Philadelphia, Pa. Underskirts and petticoats. No. 102,878; Feb. 23; Gaz. vol. 211; p. 1261.
- Greenwald Petticoat Co. Inc., New York, N. Y. Petticoats. No. 105,460; July 27; Gaz. vol. 216; p. 1314.
- Greenwood & Company, Savannah, Ga. Cigars. No. 106,326; Oct. 19; Gaz. vol. 219; p. 921.
- Greig, Carlisle N., New York, N. Y. Checks, drafts, tags, envelopes, blotters, blank labels, books, and cards. No. 101,631; Jan. 5; Gaz. vol. 210; p. 393.
- Griffith, David W., Los Angeles, Cal. Motion-picture films. No. 107,171; Nov. 16; Gaz. vol. 220; p. 1036.
- Griffith-Durney Co., San Francisco, Cal. Pineapples. No. 103,656; Apr. 13; Gaz. vol. 213; p. 739.
- Griffiths, Thomas M., St. Louis, Mo. Cathartic and laxative. No. 104,723; June 15; Gaz. vol. 215; p. 972.
- Grimes, James G., New York, N. Y. Liniment. No. 107,611; Dec. 14; Gaz. vol. 221; p. 732.
- Grimm & Gorly, St. Louis, Mo. Cut flowers. No. 105,657; Aug. 10; Gaz. vol. 217; p. 695.
- Grocers' Biscuit Company, The, Louisville, Ky. Cakes and crackers. No. 106,097; Oct. 12; Gaz. vol. 219; p. 581.
- Grocers' Biscuit Company, Louisville, Ky. Cakes and crackers. Nos. 106,855-6; Nov. 2; Gaz. vol. 220; p. 344.
- Grocers Chemical Works, Evansville, Ind. Baking-powder. No. 104,767; June 15; Gaz. vol. 215; p. 973.
- Groneweg & Schoentgen Co., Council Bluffs, Iowa. Certain named foods. No. 107,845; Dec. 28; Gaz. vol. 221; p. 1448.
- Gross, Frederick H., Boston, Mass. Metal-cleaner for gold and silver ware. No. 102,623; Feb. 16; Gaz. vol. 211; p. 953.
- Grossmith, J. L., London, England. Certain named pharmaceutical preparations for toilet use. No. 102,094; Jan. 26; Gaz. vol. 210; p. 1389.
- Grossmith, John L., London, England. Perfumed soap. No. 104,361; May 25; Gaz. vol. 214; p. 1315.
- Gruelle, John B., New York, N. Y. Dolls. No. 107,328; Nov. 23; Gaz. vol. 220; p. 1367.
- Gruensfelder Bros., Peoria, Ill. Pancake-flour and powdered milk. No. 101,777; Jan. 12; Gaz. vol. 210; p. 710.
- Grünthal, Julius, Berlin, Germany. Tablets for the preparation of baths, massage-creams, &c. No. 102,403; Feb. 9; Gaz. vol. 211; p. 635.
- Guggenbime & Company, San Francisco, Cal. Dried fruits. No. 107,329; Nov. 23; Gaz. vol. 220; p. 1367.
- Guinzburg, E. A., New York, N. Y. Bath-towels. No. 107,418; Nov. 23; Gaz. vol. 220; p. 1370.
- Guinzburg, Edwin A., New York, N. Y. Bathing shoes, slippers, caps, corsets, and suits. No. 107,707; Dec. 21; Gaz. vol. 221; p. 1036.
- Guterman Bros., St. Paul, Minn. Men's and boys' underwear. No. 101,941; Jan. 19; Gaz. vol. 210; p. 1060.
- Gulden, Charles, New York, N. Y. Mustard. No. 105,787; Aug. 17; Gaz. vol. 217; p. 1051.
- Gum Tragasol Supply Company, Limited, The, Hooton, England. Mucilaginous product for sizing, dressing, and finishing fabrics, &c. No. 106,963; Nov. 9; Gaz. vol. 220; p. 670.
- Gum Tragasol Supply Company, Limited, The, Hooton, England. Adhesive sizing. No. 106,964; Nov. 9; Gaz. vol. 220; p. 670.
- Gum Tragasol Supply Company, Limited, The, Hooton, England. Mucilaginous product for sizing, dressing, and finishing fabrics, &c. No. 106,965; Nov. 9; Gaz. vol. 220; p. 670.
- Gum Tragasol Supply Company, Limited, The, Hooton, England. Adhesive sizing. No. 106,966; Nov. 9; Gaz. vol. 220; p. 670.
- Gunns Limited, West Toronto, Ontario, Canada. Certain named foods. No. 106,967; Nov. 9; Gaz. vol. 220; p. 670.
- Gunns Limited, West Toronto, Ontario, Canada. Ham, bacon, and butter. No. 107,064; Nov. 9; Gaz. vol. 220; p. 673.
- Gunz-Durler Candy Co., Oshkosh, Wis. Candy. No. 102,564; Feb. 16; Gaz. vol. 211; p. 951.
- Gunzenhauser Bakery, The, Lancaster, Pa. Cakes. No. 105,298; July 13; Gaz. vol. 216; p. 660.
- Gus V. Brecht Butchers' Supply Company, The, St. Louis, Mo. Certain named cutlery and machinery. No. 105,994; Sept. 14; Gaz. vol. 218; p. 599.
- Gustav Franklin Company, Chicago, Ill. Mops and brooms. No. 103,423; Apr. 6; Gaz. vol. 213; p. 351.
- Gutmann & Co., Carl, New York, N. Y. Women's, misses', and children's knitted underwear. No. 104,003; Apr. 27; Gaz. vol. 213; p. 1441.
- H. Ehrlich & Sons Mfg. Co., St. Joseph, Mo. Show, wall, clothing, dress, &c., cases. No. 107,160; Nov. 16; Gaz. vol. 220; p. 1035.
- H. Korn Baking Co., Davenport, Iowa. Bread. No. 105,361; July 20; Gaz. vol. 216; p. 1008.
- H. Lesinsky Company, The, El Paso, Tex. Canned fruits, vegetables, and fish. No. 103,617; Apr. 6; Gaz. vol. 213; p. 357.
- H. Lieber Company, The, Indianapolis, Ind. Picture-frames. No. 107,182; Nov. 16; Gaz. vol. 220; p. 1036.
- H. A. James & Co., Inc., New York, N. Y. Embroidery-yarns. No. 103,350; Mar. 30; Gaz. vol. 212; p. 1685.
- H. B. Glover Company, Dubuque, Iowa. Sleeping-robots. No. 103,315; Mar. 30; Gaz. vol. 212; p. 1684.
- H. C. Dusenberry Inc., New York, N. Y. Insecticide. No. 104,900; June 22; Gaz. vol. 215; p. 1259.
- H. C. Schrader Co., Jacksonville, Fla. Citrus fruits. No. 103,969; Apr. 20; Gaz. vol. 213; p. 1114.
- H. C. Schrader Co., Jacksonville, Fla. Citrus fruits. No. 105,372; July 20; Gaz. vol. 216; p. 1009.
- H. C. Schrader Co., Jacksonville, Fla. Citrus fruits. No. 106,514; Oct. 19; Gaz. vol. 219; p. 927.
- H. E. Verran Company, Incorporated, New York, N. Y. Certain named threads and yarns and combinations thereof. No. 104,918; June 22; Gaz. vol. 215; p. 1259.
- H. G. Prince & Company, Fruitvale, Cal. Tomato sauce. No. 102,814; Feb. 23; Gaz. vol. 211; p. 1259.
- H. J. McGrath Company, Baltimore, Md. Canned fruits, vegetables, and oysters. No. 104,623; June 8; Gaz. vol. 215; p. 662.
- H. L. Hurst Mfg. Co., The, Canton, Ohio. Hand and power sprayers. No. 104,876; June 22; Gaz. vol. 215; p. 1258.
- H. L. Willing Co., The, Detroit, Mich. Overalls. No. 105,706; Aug. 10; Gaz. vol. 217; p. 697.
- H. M. Hobbie Grocery Company, Montgomery, Ala. Mixed feed containing molasses and alfalfa. No. 107,613; Dec. 14; Gaz. vol. 221; p. 732.
- H. N. Fish Co., The, Boston, Mass. Candy. No. 107,605; Dec. 14; Gaz. vol. 221; p. 732.
- H. S. Crocker Company, San Francisco, Cal. Writing and drawing pencils. No. 103,226; Mar. 23; Gaz. vol. 212; p. 1354.
- H. T. Cottam & Co., Ltd., New Orleans, La. Wheat-flour. No. 103,999; Apr. 27; Gaz. vol. 213; p. 1441.
- H. T. Paiste Company, Philadelphia, Pa. Certain named electrical apparatus and supplies. No. 105,223; July 13; Gaz. vol. 216; p. 658.
- H. W. Clark Co., Mattoon, Ill. Pipe-couplings. No. 104,827; June 22; Gaz. vol. 215; p. 1257.
- H. W. Johns-Manville Co., New York, N. Y. Grease for softening and preserving leather, rubber, and canvas machinery-beltting. No. 101,639; Jan. 5; Gaz. vol. 210; p. 393.
- H. W. Johns-Manville Co., New York, N. Y. Electrical automobile-horn. No. 101,640; Jan. 5; Gaz. vol. 210; p. 394.
- H. W. Johns-Manville Co., New York, N. Y. Certain metallic compound for repairing defects and breaks in metal castings and pipes. No. 101,853; Jan. 12; Gaz. vol. 210; p. 713.
- H. W. Johns-Manville Co., New York, N. Y. Fireproof glue, adhesive tape, and cement for certain purposes. No. 101,854; Jan. 12; Gaz. vol. 210; p. 713.
- H. W. Johns-Manville Co., New York, N. Y. Automobile headlight-lens. No. 101,951; Jan. 19; Gaz. vol. 210; p. 1060.
- H. W. Johns-Manville Co., New York, N. Y. Automobile shock-absorbers. No. 102,414; Feb. 9; Gaz. vol. 211; p. 635.
- H. W. Johns-Manville Co., New York, N. Y. Automobile-clocks. No. 103,587; Apr. 6; Gaz. vol. 213; p. 356.
- Haas Brothers, New York, N. Y. Silk and cotton dress goods. No. 101,635; Jan. 5; Gaz. vol. 210; p. 393.
- Haas Brothers, New York, N. Y. Silk dress goods. Nos. 106,033-4; Sept. 14; Gaz. vol. 218; p. 600.
- Habicht, Braun & Co., New York, N. Y. Certain named foods. No. 101,942; Jan. 19; Gaz. vol. 210; p. 1060.
- Habicht, Braun & Co., New York, N. Y. Certain named foods. Nos. 102,789-92; Feb. 23; Gaz. vol. 211; p. 1258.

Alphabetical list of registrants of trade-marks—Continued.

- Habicht, Braun & Co., New York, N. Y. Nuts, nutmeats, honey, &c. No. 103,237; Mar. 23; Gaz. vol. 212; p. 1354.
- Habicht, Braun & Co., New York, N. Y. Certain named foods. No. 103,317; Mar. 30; Gaz. vol. 212; p. 1684.
- Habicht, Braun & Co., New York, N. Y. Certain named foods. No. 104,768; June 15; Gaz. vol. 215; p. 973.
- Habicht, Braun & Co., New York, N. Y. Certain named foods. Nos. 105,845-6; Aug. 24; Gaz. vol. 217; p. 1335.
- Habicht, Braun & Co., New York, N. Y. Certain named foods. No. 106,431; Oct. 19; Gaz. vol. 219; p. 924.
- Habicht, Braun & Co., New York, N. Y. Certain named foods. No. 107,065; Nov. 9; Gaz. vol. 220; p. 673.
- Hackett, William J., Dorchester, Mass. Remedy for hayfever and catarrh. No. 104,019; Apr. 27; Gaz. vol. 213; p. 1442.
- Haefner, Carl, Washington, Pa. Remedy for the treatment of certain named diseases. No. 102,095; Jan. 26; Gaz. vol. 210; p. 1389.
- Hageman, O. F., Lorain, Ohio. Coffee. No. 107,551; Dec. 7; Gaz. vol. 221; p. 347.
- Hagen, P. O., Brooklyn, N. Y. Washing-machine. No. 103,238; Mar. 23; Gaz. vol. 212; p. 1354.
- Hague, Harry, Murray, Utah. Disinfectant purposes. No. 104,055; Apr. 27; Gaz. vol. 213; p. 1443.
- Hale, Arthur, New York, N. Y. Washable caps and slippers. No. 106,600; Oct. 26; Gaz. vol. 219; p. 1229.
- Hale, Frank W., Somerville, Mass. Certain named tools and supplies used in piano and organ tuning, regulating, and repairing. No. 101,848; Jan. 12; Gaz. vol. 210; p. 712.
- Hale-Halsell Gro. Co., McAlester, Durant, Coalgate, Muskogee, and Tulsa, Okla. Certain named foods. No. 107,066; Nov. 9; Gaz. vol. 220; p. 673.
- Haley-Hammond Company, The, Jersey City, N. J., and New York, N. Y. Tanning extracts made from barks and woods for tanning leather. Nos. 105,351-2; July 20; Gaz. vol. 216; p. 1008.
- Haley-Hammond Company, The, Jersey City, N. J., and New York, N. Y. Tanning extracts made from barks and woods used for tanning leather. No. 105,392; July 20; Gaz. vol. 216; p. 1009.
- Haley-Hammond Company, The, Jersey City, N. J., and New York, N. Y. Tanning extracts. No. 105,496; July 27; Gaz. vol. 216; p. 1315.
- Hall-Borchert Dress Form Co., New York, N. Y. Garment-forms. No. 102,710; Feb. 23; Gaz. vol. 211; p. 1256.
- Hall & Co., Walter T., Ottumwa, Iowa. Candy. No. 103,752; Apr. 13; Gaz. vol. 213; p. 742.
- Hall & Co., Walter T., Ottumwa, Iowa. Candy. No. 106,601; Oct. 26; Gaz. vol. 219; p. 1229.
- Hall Concrete-Products Company, Inc., Grassland, Pa. Certain named articles made of artificial stone. No. 103,348; Mar. 30; Gaz. vol. 212; p. 1685.
- Hall, David, St. Louis, Mo. Kitchen-cabinets. No. 104,874; June 22; Gaz. vol. 215; p. 1258.
- Hall, Hartwell & Co., Troy, N. Y. Collars. No. 103,657; Apr. 13; Gaz. vol. 213; p. 739.
- Hall-Van Gorder Company, The, Cleveland, Ohio. Insecticides and preventives to ward off the attacks of insects. No. 107,552; Dec. 7; Gaz. vol. 221; p. 347.
- Halla Dagger Medicine Company, Great Falls, Mont. Liniment. No. 106,153; Oct. 12; Gaz. vol. 219; p. 583.
- Haller, Donald E., Chambersburg, Pa. Certain named diseases. No. 107,740; Dec. 28; Gaz. vol. 221; p. 1445.
- Halpren & Mittelman, Philadelphia, Pa. Cotton poplin. No. 105,417; July 20; Gaz. vol. 216; p. 1010.
- Hamilton Carhartt Manufacturer, Detroit, Mich. Overalls and outer garments. No. 107,571; Dec. 14; Gaz. vol. 221; p. 731.
- Hamilton, J. T. & A., Pittsburgh, Pa. Glass bottles. No. 102,404; Feb. 9; Gaz. vol. 211; p. 635.
- Hammell, Riglander & Co., New York, N. Y. Calipers. No. 104,976; June 29; Gaz. vol. 215; p. 1494.
- Hammer, Carlos, New York, N. Y. Concentrated coffee extract. No. 103,164; Mar. 16; Gaz. vol. 212; p. 1054.
- Hammock Egg Carrier Company, Buffalo, N. Y. Transporting-container. No. 102,278; Feb. 2; Gaz. vol. 211; p. 280.
- Hammond, Knowlton & Co., Putnam, Conn., and New York, N. Y. Cotton, silk, and linen threads. Nos. 106,857-9; Nov. 2; Gaz. vol. 220; p. 344.
- Hammond, Thos. J., Fresno, Cal. Figs and raisins. Nos. 107,330-1; Nov. 23; Gaz. vol. 220; p. 1367.
- Hamwi, Ernest A., St. Louis, Mo. Pastry cones. No. 105,588; Aug. 10; Gaz. vol. 217; p. 693.
- Hand Embroidery Co., The, New York, N. Y. Ladies' head and shoulder scarfs, neckscarfs, and jabots. No. 107,419; Nov. 23; Gaz. vol. 220; p. 1370.
- Handy, Frederick K., Bay City, Mich. Imitation coffee. No. 101,675; Jan. 5; Gaz. vol. 210; p. 395.
- Hanley & Kinsella Coffee & Spice Company, St. Louis, Mo. Coffee. No. 102,793; Feb. 23; Gaz. vol. 211; p. 1258.
- Hanley & Kinsella Coffee & Spice Company, St. Louis, Mo. Blended coffee. No. 107,332; Nov. 23; Gaz. vol. 220; p. 1367.
- Hannibal Lime Company, Hannibal, Mo. Lime. No. 106,968; Nov. 9; Gaz. vol. 220; p. 670.
- Hanover Vulcanite Co. (See Geo. Borgfeldt & Co., assignor.)
- Hansen & Co., Jersey City, N. J. Candy-boxes. No. 105,266; July 13; Gaz. vol. 216; p. 659.
- Hansen-Nieter Safety Co. Inc., New York, N. Y. Fire-extinguishers. No. 107,333; Nov. 23; Gaz. vol. 220; p. 1368.
- Hanson & Van Winkle Co., The, Newark, N. J. Metal-polishes. No. 107,420; Nov. 23; Gaz. vol. 220; p. 1370.
- Harden Carter Co., Inc., New York, N. Y. Handkerchiefs. No. 107,683; Dec. 21; Gaz. vol. 221; p. 1035.
- Harding, Tilton & Company, Boston, Mass. Mercerized and otherwise processed cotton yarns. No. 102,859; Feb. 23; Gaz. vol. 211; p. 1261.
- Harding, Tilton & Company, Boston, Mass. Mercerized and otherwise processed cotton yarns. No. 104,348; May 25; Gaz. vol. 214; p. 1315.
- Harding, Tilton & Company, Boston, Mass. Mercerized and otherwise-processed cotton yarns. No. 105,847; Aug. 24; Gaz. vol. 217; p. 1335.
- Hardsoeg Manufacturing Co., Ottumwa, Iowa. Shovels. No. 107,784; Dec. 28; Gaz. vol. 221; p. 1446.
- Hardware Buyers Association, Chicago, Ill. Aluminum ware and wire screens. No. 104,611; June 8; Gaz. vol. 215; p. 661.
- Harmony Creamery Company, Pittsburgh, Pa. Eggs. No. 103,265; Mar. 23; Gaz. vol. 212; p. 1355.
- Harper, James P., St. Louis, Mo. Dental technicans, articulators, and articulator-holders. No. 104,724; June 15; Gaz. vol. 215; p. 972.
- Harrah & Stewart Mfg. Co., Des Moines, Iowa. Cleaning compounds. No. 106,765; Oct. 26; Gaz. vol. 219; p. 1233.
- Harrell, Arlando T., Chicago, Ill. Paper boxes. No. 106,766; Oct. 26; Gaz. vol. 219; p. 1233.
- Harriet Hubbard Ayer, New York, N. Y. Certain named toilet and pharmaceutical preparations. No. 107,042; Nov. 9; Gaz. vol. 220; p. 672.
- Harris, Benjamin H., New York, N. Y. Hair restorer and tonic. No. 103,950; Apr. 20; Gaz. vol. 213; p. 1114.
- Harris Bros. & Barnett, New York, N. Y. Petticoats, princess-slips, ladies' muslin and silk underwear. No. 103,658; Apr. 13; Gaz. vol. 213; p. 739.
- Harris, Edward O., Mount Pleasant, Mich. Wheat, Graham, and pancake flours and corneal. No. 104,725; June 15; Gaz. vol. 215; p. 972.
- Harris & Ewing, Washington, D. C. Photographic portraits. No. 103,385; Mar. 30; Gaz. vol. 212; p. 1686.
- Harris, Harry, Pittsburgh, Pa. Hosiery. No. 107,421; Nov. 23; Gaz. vol. 220; p. 1370.
- Harris, Leonard A., Newark, N. J. Certain named chemical preparations. No. 103,895; Apr. 20; Gaz. vol. 213; p. 1112.
- Harrison, James B., Syracuse, N. Y. Cigars. No. 107,517; Dec. 7; Gaz. vol. 221; p. 346.
- Harrison Waterproof Materials Co., New York, N. Y. Light powder used in certain construction materials. No. 102,405; Feb. 9; Gaz. vol. 211; p. 635.
- Harry Eby Shoe Co., Inc., Ephrata, Pa. Shoes, boots, and rubbers. No. 103,946; Apr. 20; Gaz. vol. 213; p. 1114.
- Hart Schaffner & Marx, Chicago, Ill. Men's outer suits. No. 102,905; Mar. 2; Gaz. vol. 212; p. 323.
- Harter, Gustav A., Chicago, Ill. Metal shades and reflectors. No. 101,676; Jan. 5; Gaz. vol. 210; p. 395.
- Harter, Gustav A., Chicago, Ill. Electric-light fixtures. No. 106,001; Sept. 14; Gaz. vol. 218; p. 599.
- Hartford Machine Screw Company, The, Hartford, Conn. Pumps. No. 101,735; Jan. 12; Gaz. vol. 210; p. 709.
- Hartford, Nancy, Silver Creek, Nebr. Medicine for tuberculosis. No. 104,937; June 29; Gaz. vol. 215; p. 1493.
- Hartig & Miller, Lawrence, Mass. Stove-lining. No. 105,690; Aug. 10; Gaz. vol. 217; p. 696.
- Hartmann Trunk Company, The, Racine, Wis. Trunks and suitcases. No. 103,951; Apr. 20; Gaz. vol. 213; p. 1114.
- Hastings, George T., New York, N. Y. Dental cream. Nos. 105,461-2; July 27; Gaz. vol. 216; p. 1314.
- Hatke, Joseph A., Richmond, Va. Beverages and syrup for making the same. No. 102,406; Feb. 9; Gaz. vol. 211; p. 635.
- Haupt, Peter, New Athens, Ill. Self-rising wheat-flour. No. 107,334; Nov. 23; Gaz. vol. 220; p. 1368.
- Hawaiian Pineapple Products Co., Ltd., Honolulu, Hawaii. Pineapple-juice. No. 102,407; Feb. 9; Gaz. vol. 211; p. 635.
- Hawaiian Pineapple Co., Ltd., Honolulu, Hawaii. Canned pineapple. No. 103,430; Apr. 6; Gaz. vol. 213; p. 351.
- Hawk, Charles F., Akron, Ohio. Fluid fuel-improver. No. 101,849; Jan. 12; Gaz. vol. 210; p. 712.
- Hawk Fish Company, Seattle, Wash. Canned salmon. No. 104,119; May 4; Gaz. vol. 214; p. 339.
- Hawkeye Oil Company, The, Waterloo, Iowa. Lubricating-oils and gasoline. No. 106,154; Oct. 12; Gaz. vol. 219; p. 583.
- Hawkeye Pearl Button Co., Muscatine, Iowa. Buttons. No. 106,969; Nov. 9; Gaz. vol. 220; p. 670.
- Hawkins, George T., Northampton, England. Boots, shoes, and slippers. No. 105,960; Aug. 31; Gaz. vol. 217; p. 1658.
- Hawks, Incorporated, Bloomington, Ill. Certain named foods. No. 105,353; July 20; Gaz. vol. 216; p. 1008.
- Hawks, Incorporated, Bloomington, Ill. Certain named foods. No. 105,589; Aug. 10; Gaz. vol. 217; p. 693.
- Haynes-Langenberg Manufacturing Company, St. Louis, Mo. Hot-air furnaces. No. 107,067; Nov. 9; Gaz. vol. 220; p. 673.

- Hays City Milling & Elevator Company, The, Hays, Kans. Wheat-flour. No. 105,590; Aug. 10; Gaz. vol. 217; p. 693.
- Hays City Milling and Elevator Company, The, Hays, Kans. Wheat-flour. No. 106,602; Oct. 26; Gaz. vol. 219; p. 1229.
- Hays & Green, New York, N. Y. Nurses' and maids' uniforms, house-dresses, &c. No. 106,436; Oct. 19; Gaz. vol. 219; p. 924.
- Hayward Company, The, New York, N. Y. Certain named buckets, counterweight-drums, and parts thereof, dredge, excavator, and spud fittings. No. 102,096; Jan. 26; Gaz. vol. 210; p. 1389.
- Healine Manufacturing Co., Elmira, N. Y. Salve and ointment for certain named ailments and diseases. No. 104,907; June 22; Gaz. vol. 215; p. 1259.
- Healy, Arthur E., D. D. S., New York, N. Y. Impression material for dental purposes in powdered form. No. 104,559; June 1; Gaz. vol. 215; p. 320.
- Healy Shoe Company, Inc., New York, N. Y. Boots and shoes of leather, textile fabric, or rubber. No. 104,613; June 8; Gaz. vol. 215; p. 662.
- Heat Saver Company, Chicago, Ill. Fuel-saving devices. No. 107,258; Nov. 16; Gaz. vol. 220; p. 1038.
- Hecht, Wm., New York, N. Y. Children's washable outer suits. No. 102,097; Jan. 26; Gaz. vol. 210; p. 1389.
- Hecht, Wm., New York, N. Y. Children's washable suits. No. 105,848; Aug. 24; Gaz. vol. 217; p. 1335.
- Heide, Henry, New York, N. Y. Candles, bakers' pastes and cake-fillers, &c. No. 103,102; Mar. 16; Gaz. vol. 212; p. 1052.
- Heide, Henry, New York, N. Y. Candies, cocoa, and chocolate. No. 103,639; Apr. 13; Gaz. vol. 213; p. 739.
- Heide, Henry, New York, N. Y. Candles, cocoa, and chocolate. No. 105,053; July 6; Gaz. vol. 216; p. 321.
- Heidelberg, Wolff & Co., New York, N. Y. Overcoats, suits, ulsters, automobile coats and suits, &c. No. 105,691; Aug. 10; Gaz. vol. 217; p. 696.
- Heidelberg, Wolff & Co., New York, N. Y. Certain named men's and boys' clothing. No. 107,172; Nov. 16; Gaz. vol. 220; p. 1036.
- Hellpern & Gross, Hartford, Conn. Sweaters. No. 106,860; Nov. 2; Gaz. vol. 220; p. 344.
- Helmbach Rubber Heel Co., Duluth, Minn. Rubber heels for shoes. No. 107,820; Dec. 28; Gaz. vol. 221; p. 1447.
- Heindl, Stefan, Pittsburgh, Pa. Foot-powder. No. 105,514; Aug. 3; Gaz. vol. 217; p. 335.
- Heineman Bros., Baltimore, Md. Cigars. No. 104,450; June 1; Gaz. vol. 215; p. 317.
- Hein Company, The, Milwaukee, Wis. Certain named stationery. No. 107,518; Dec. 7; Gaz. vol. 221; p. 346.
- Heintzelman, Joseph A., Philadelphia, Pa. Treatment for dyspepsia, kidney and liver complaints. No. 106,155; Oct. 12; Gaz. vol. 219; p. 583.
- Heinze Electric Company, Portland, Me., and Lowell, Mass. Spark plugs and coils. No. 105,532; Aug. 3; Gaz. vol. 217; p. 335.
- Held, Firm of A., New York, N. Y. Coffee. No. 106,437; Oct. 19; Gaz. vol. 219; p. 924.
- Heldford, Samuel M., Portland, Oreg. Certain pharmaceutical preparations and remedies for certain diseases. No. 103,837; Apr. 13; Gaz. vol. 213; p. 745.
- Helios Manufacturing Company, Philadelphia, Pa. Secondary batteries and arc-lamps. No. 104,325; May 18; Gaz. vol. 214; p. 1022.
- Helios Manufacturing Company, Philadelphia, Pa. Secondary batteries and arc-lamps. No. 105,591; Aug. 10; Gaz. vol. 217; p. 693.
- Heller & Co., B., Chicago, Ill. Bluing. No. 104,938; June 29; Gaz. vol. 215; p. 1493.
- Heller, Isaac, New York, N. Y. Waistbands for trousers. No. 104,219; May 11; Gaz. vol. 214; p. 677.
- Heller Leather Company, The, Milwaukee, Wis. Fine leather gloves. No. 105,941; Aug. 31; Gaz. vol. 217; p. 1657.
- Heller & Sons, Sol. Wilkes-Barre, Pa. Negligée and work shirts and overalls. No. 106,438; Oct. 19; Gaz. vol. 219; p. 924.
- Heller, William J., Easton, Pa. Flags. No. 103,854; Apr. 20; Gaz. vol. 213; p. 1111.
- Hellmann, Richard, New York, N. Y. Bread, especially pumpernickel-bread, salad-dressing, jellied meats, &c. No. 104,964; June 29; Gaz. vol. 215; p. 1494.
- Hello-Boy Manufacturing Company, Farrell, Pa. Anti-septic. No. 104,726; June 15; Gaz. vol. 215; p. 972.
- Helmers, Gerhard P., Baltimore, Md. Cuffs. No. 101,944; Jan. 19; Gaz. vol. 210; p. 1060.
- Helmet Company, The, Cincinnati, Ohio. Chewing-gum confection. No. 106,603; Oct. 26; Gaz. vol. 219; p. 1229.
- "Hen-Cackle" Poultry Supply Co., Raleigh, N. C. Poultry food. No. 105,592; Aug. 10; Gaz. vol. 217; p. 693.
- Hence & Co., E., New York, N. Y. Maps. No. 104,451; June 1; Gaz. vol. 215; p. 317.
- Hendee Manufacturing Company, Springfield, Mass. Internal-combustion engines. Nos. 103,727-8; Apr. 13; Gaz. vol. 213; p. 742.
- Henderson Rubber Company, The, Baltimore, Md. New rubber. No. 107,473; Dec. 7; Gaz. vol. 221; p. 345.
- Hendricks, Frank A., New York, N. Y. Remedy for certain named diseases. No. 105,113; July 6; Gaz. vol. 216; p. 323.
- Henry Campbell & Company, Limited, Belfast, Ireland. Sewing silk, cotton, and thread. No. 102,369; Feb. 9; Gaz. vol. 211; p. 634.
- Henry Disston & Sons, Incorporated, Philadelphia, Pa. Squares, bevels, levels, combined plumbs and levels, &c. No. 101,921; Jan. 19; Gaz. vol. 210; p. 1059.
- Henry Disston & Sons, Incorporated, Philadelphia, Pa. Certain named cutlery and tools. No. 101,922; Jan. 19; Gaz. vol. 210; p. 1060.
- Henry Disston & Sons, Incorporated, Philadelphia, Pa. Files. No. 102,070; Jan. 26; Gaz. vol. 210; p. 1389.
- Henry Disston & Sons, Incorporated, Philadelphia, Pa. Files. No. 102,263; Feb. 2; Gaz. vol. 211; p. 279.
- Henry Matier & Co., Limited, Belfast, Ireland, and New York, N. Y. Linen piece goods, house-linens, damask, &c. No. 103,108; Mar. 16; Gaz. vol. 212; p. 1052.
- Henry Matier & Co., Limited, Belfast, Ireland, and New York, N. Y. Handkerchiefs and certain named embroidered linens. No. 103,171; Mar. 16; Gaz. vol. 212; p. 1054.
- Henry May & Co. Ltd., Honolulu, Hawaii. Coffee. No. 102,428; Feb. 9; Gaz. vol. 211; p. 636.
- Henry Myer Thread Manufacturing Co., Chicago, Ill. Thread and yarn. No. 103,068; Mar. 16; Gaz. vol. 212; p. 1051.
- Henry Sonneborn & Co., Inc., Baltimore, Md. Certain named clothing for men, boys, women, misses, and children. No. 105,376; July 20; Gaz. vol. 216; p. 1009.
- Henry Sonneborn & Co. Inc., Baltimore, Md. Certain named clothing for men, women, misses, and children. No. 107,293; Nov. 16; Gaz. vol. 220; p. 1039.
- Henry Thayer & Company, Cambridge, Mass. Certain named medicines and remedies for certain diseases. No. 101,886; Jan. 12; Gaz. vol. 210; p. 714.
- Henry Thayer & Company, Cambridge, Mass. Liniment. No. 107,652; Dec. 14; Gaz. vol. 221; p. 733.
- Henry W. Fishel & Sons, Inc., New York, N. Y. Certain named jewelry. No. 107,705; Dec. 21; Gaz. vol. 221; p. 1036.
- Henry Zimmern & Company, New York, N. Y. Parts of watch and clock movements, including mainsprings. No. 104,114; Apr. 27; Gaz. vol. 213; p. 1444.
- Hentges, Martin, Buffalo, N. Y. Baking-powder. No. 103,753; Apr. 13; Gaz. vol. 213; p. 742.
- Herbert Froid Company Limited, The, Chapel-en-le-Grith, England. Brake blocks and linings, surfacing materials for brakes. No. 102,085; Jan. 26; Gaz. vol. 210; p. 1389.
- Herbert Froid Company Limited, Chapel-en-le-Grith, England. Clutch-linings, surfacing materials for clutches, &c. Nos. 102,836-7; Feb. 23; Gaz. vol. 211; p. 1260.
- Hercules Powder Company, Wilmington, Del. Smokeless rifle-powder. No. 106,328; Oct. 19; Gaz. vol. 219; p. 921.
- Hering, Ardo, Philadelphia, Pa. Certain named hardware supplies. No. 103,949; Apr. 20; Gaz. vol. 213; p. 1114.
- Herman, Benjamin L., Hackensack, N. J. Certain named clothing for men and women. No. 104,685; June 8; Gaz. vol. 215; p. 664.
- Herman Moritz & Excelsior Shrinking Co., Inc., New York, N. Y. Rain-coats. No. 101,645; Jan. 5; Gaz. vol. 210; p. 394.
- Hero Manufacturing Co., Inc., Philadelphia, Pa. Metal boxes, cans, collapsible tubes, &c. No. 105,205; July 13; Gaz. vol. 216; p. 658.
- Herrmann Ankam & Co., New York, N. Y. Handkerchiefs. No. 102,795; Feb. 23; Gaz. vol. 211; p. 1259.
- Herrmann, Ankam & Co., New York, N. Y. Handkerchiefs. No. 104,093; Apr. 27; Gaz. vol. 213; p. 1444.
- Herrmann, Ankam & Co., New York, N. Y. Handkerchiefs. No. 106,861; Nov. 2; Gaz. vol. 220; p. 344.
- Herschede Hall Clock Company, The, Cincinnati, Ohio. Clocks and clock parts. No. 101,677; Jan. 5; Gaz. vol. 210; p. 395.
- Hershey Chocolate Company, Hershey, Pa. Chewing-gum. No. 106,605; Oct. 26; Gaz. vol. 219; p. 1229.
- Herting, Chas. F. C., San Jose, Cal. Metal-polish. No. 101,636; Jan. 5; Gaz. vol. 210; p. 393.
- Hewitt-Lea-Funk Co., Seattle, Wash. Lumber. No. 103,812; Apr. 13; Gaz. vol. 213; p. 744.
- Hexter & Company, S. M., Cleveland, Ohio. Lining fabrics. No. 104,875; June 22; Gaz. vol. 215; p. 1258.
- Heywood Toilet Specialties Co., New York, N. Y. Certain pharmaceutical preparations for toilet use. No. 104,388; May 25; Gaz. vol. 214; p. 1316.
- Hibbard, Spencer, Bartlett & Co., Chicago, Ill. Certain named cutlery, machinery, and tools. No. 104,614; June 8; Gaz. vol. 215; p. 662.
- Hick, Ernest, Pittsfield, Mass. Bread, biscuit, and pastry. No. 103,061; Mar. 16; Gaz. vol. 212; p. 1051.
- Hickey, Mary, Oswein, Iowa. Hair-tonic. No. 103,813; Apr. 13; Gaz. vol. 213; p. 744.
- Hidden Inlet Canning Co., Ketchikan, Alaska, and Seattle, Wash. Canned salmon. No. 105,206; July 13; Gaz. vol. 216; p. 658.
- Hidden Inlet Canning Co., Ketchikan, Alaska, and Seattle, Wash. Canned salmon. No. 107,259; Nov. 16; Gaz. vol. 220; p. 1038.
- Hider, Francis, London, England. Resin. No. 101,736; Jan. 12; Gaz. vol. 210; p. 709.

Alphabetical list of registrants of trade-marks—Continued.

- Hiebert, Jacob J., Mountain Lake, Minn. Steam water-heater. No. 106,767; Oct. 26; Gaz. vol. 219; p. 1234.
- Higgins, William A., New York, N. Y. Dried fruits. No. 102,408; Feb. 9; Gaz. vol. 211; p. 635.
- Higginsville Milling Co., The, Higginsville, Mo. Wheat-flour. No. 101,737; Jan. 12; Gaz. vol. 210; p. 709.
- Highland Body Manufacturing Company, The, Elmwood Place, Ohio. Carriages and wagons. No. 107,173; Nov. 16; Gaz. vol. 220; p. 1036.
- Highland Milling Company, Highland, Ill. Wheat-flour. No. 106,606; Oct. 26; Gaz. vol. 219; p. 1229.
- Highland Milling Company, Highland, Ill. Wheat-flour. No. 107,068; Nov. 9; Gaz. vol. 220; p. 673.
- Highland Milling Company, Highland, Ill. Wheat-flour. No. 107,335; Nov. 23; Gaz. vol. 220; p. 1368.
- Hilker-Wichers Mfg. Co., Racine, Wis. Dress and negligee shirts. No. 103,814; Apr. 13; Gaz. vol. 213; p. 744.
- Hill, Daniel B., Eugene, Oreg. Towels, bureau-scarfs, table runners and cloths, &c. No. 105,658; Aug. 10; Gaz. vol. 217; p. 695.
- Hill, Daniel B., Eugene, Oreg. Boudoir-caps, corset-covers, baby-dresses, waists, &c. No. 105,788; Aug. 17; Gaz. vol. 217; p. 1051.
- Hill and Dreyer Mfg. Co., Los Angeles county, Cal. Beds. No. 102,098; Jan. 26; Gaz. vol. 210; p. 1389.
- Hills Bros., San Francisco, Cal. Coffee. Nos. 105,725-6; Aug. 17; Gaz. vol. 217; p. 1049.
- Hills Bros. Co., The, New York, N. Y. Tapioca. No. 104,326; May 18; Gaz. vol. 214; p. 1022.
- Hills Brothers Company, The, New York, N. Y. Figs. No. 104,536; June 1; Gaz. vol. 215; p. 320.
- Hills Brothers Company, The, New York, N. Y. Figs and dates. No. 104,537; June 1; Gaz. vol. 215; p. 320.
- Hills Brothers Company, The, New York, N. Y. Figs and dates. No. 105,351; July 20; Gaz. vol. 216; p. 1008.
- Hills Brothers Company, The, New York, N. Y. Dates. No. 106,768; Oct. 26; Gaz. vol. 219; p. 1234.
- Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Plushes in the piece. Nos. 104,908-9; June 22; Gaz. vol. 215; p. 1259.
- Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Plushes in the piece. No. 104,939; June 29; Gaz. vol. 215; p. 1493.
- Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Plushes in the piece. Nos. 105,054-61; July 6; Gaz. vol. 216; p. 321.
- Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Plushes in the piece. No. 105,208; July 13; Gaz. vol. 216; p. 658.
- Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Plushes in the piece. No. 105,463; July 27; Gaz. vol. 216; p. 1314.
- Hinde & Dauch Paper Co., Sandusky and Delphos, Ohio; Chicago, Ill.; Philadelphia and Pittsburgh, Pa.; St. Louis, Mo.; Boston, Mass.; New York, N. Y.; Muncie, Ind.; Gloucester, N. J.; and Toronto, Ontario, Canada. Paper and corrugated paper, paper-board, fiber-board, &c. No. 102,879; Feb. 23; Gaz. vol. 211; p. 1261.
- Hindle, Thomas H., Jr., New York, N. Y. Dolls. No. 106,329; Oct. 19; Gaz. vol. 219; p. 921.
- Hine, Reuben A., New York, N. Y. Bitters. No. 101,778; Jan. 12; Gaz. vol. 210; p. 710.
- Hinks, Wells & Co., Birmingham, England. Steel pens. Nos. 106,098-100; Oct. 12; Gaz. vol. 219; p. 581.
- Hinks, Wells & Co., Birmingham, England. Steel pens and penholders. No. 106,101; Oct. 12; Gaz. vol. 219; p. 581.
- Hipkins, Stephen, Martins Ferry, Ohio. Glass soap-dishes. No. 105,849; Aug. 24; Gaz. vol. 217; p. 1335.
- Hippolite, Walter H., St. Louis, Mo. Certain named foods. No. 102,711; Feb. 23; Gaz. vol. 211; p. 1256.
- Hiram Walker & Sons, Limited, Walkerville, Canada, and Detroit, Mich. Whisky. Nos. 102,661-2; Feb. 16; Gaz. vol. 211; p. 954.
- Hiram Walker & Sons, Limited, Walkerville, Canada, and Detroit, Mich. Whisky. No. 102,913; Mar. 2; Gaz. vol. 212; p. 323.
- Hirner, Emil A., Allentown, Pa. Hosiery. No. 105,209; July 13; Gaz. vol. 216; p. 658.
- Hirsch, Henry, Toledo, Ohio. Clover, alsike, timothy, alfalfa, &c., grass-seeds. No. 104,349; May 25; Gaz. vol. 214; p. 1315.
- Hirsch Mfg. Co., Minneapolis, Minn. Overalls and work-shirts of textile material. No. 105,515; Aug. 3; Gaz. vol. 217; p. 335.
- Hirsch & Sons, Joseph, New York, N. Y. Silks. No. 102,712; Feb. 23; Gaz. vol. 211; p. 1256.
- Hirschmann, William F., New York, N. Y. Smokers' articles and smokers' appliances not of precious metal. No. 106,607; Oct. 26; Gaz. vol. 219; p. 1229.
- Hirschmann, William F., New York, N. Y. Games, toys, and sporting goods. No. 106,608; Oct. 26; Gaz. vol. 219; p. 1229.
- Hiscox Brothers, Albany, N. Y. Lubricant. No. 103,660; Apr. 13; Gaz. vol. 213; p. 739.
- Hixon, Curtis, Tampa, Fla. Ointment. No. 102,894; Mar. 2; Gaz. vol. 212; p. 323.
- Hoard & Co., M. C. Stryker, Ohio. Foot-powder. No. 102,653; Feb. 16; Gaz. vol. 211; p. 954.
- Hocking Valley Products Company, Columbus, Ohio. Bricks. No. 102,686; Feb. 23; Gaz. vol. 211; p. 1255.
- Hoe & Co., Limited, Manchester, England. Sauce or relish. No. 104,452; June 1; Gaz. vol. 215; p. 317.
- Hoefer Manufacturing Company, Freeport, Ill. Non-electric marine motors. No. 106,102; Oct. 12; Gaz. vol. 219; p. 581.
- Hoeller, Henry R., Astoria, Oreg. Chocolates. No. 106,440; Oct. 19; Gaz. vol. 219; p. 924.
- Hoewel, Sandblast Machine Co., The, New York, N. Y. Sand-blast machines. No. 101,706; Jan. 5; Gaz. vol. 210; p. 395.
- Hoffman, C. & A., Philadelphia, Pa. Butchers' steels. No. 103,754; Apr. 13; Gaz. vol. 213; p. 742.
- Hoffmann-La Roche Chemical Works, The, New York, N. Y. Medicinal preparation for producing anesthesia. No. 102,860; Feb. 23; Gaz. vol. 211; p. 1261.
- Hoffmann-La Roche Chemical Works, The, New York, N. Y. Medicinal preparation for producing anesthesia. No. 103,288; Mar. 30; Gaz. vol. 212; p. 1683.
- Hoffmann-La Roche Chemical Works, New York, N. Y. Stable scopolamin solution. No. 103,289; Mar. 30; Gaz. vol. 212; p. 1683.
- Hofors Aktiebolag, Hofors, Sweden. Iron and steel. No. 102,777; Feb. 23; Gaz. vol. 211; p. 1258.
- Hog-Joy System, Springfield, Ill. Tonics for animals. Nos. 105,895-6; Aug. 24; Gaz. vol. 217; pp. 1336-7.
- Hogg, Dlsy, Monahans, Tex. Medical compound for treatment of sick, intermittent nervous, and periodical headaches. No. 107,666; Dec. 14; Gaz. vol. 221; p. 734.
- Hohfeld, Herman L., Philadelphia, Pa. Towels, wash-rags, face-cloths, bath-mats, and bath-room rugs. No. 102,713; Feb. 23; Gaz. vol. 211; p. 1256.
- Holbrook Grocery Co., The, Keene, Woodsville, and Nashua, N. H. Coffee and tea. Nos. 104,500-1; June 1; Gaz. vol. 215; p. 320.
- Holbrook Grocery Co., Keene, Woodsville, and Nashua, N. H. Coffee and tea. No. 105,482; July 27; Gaz. vol. 216; p. 1314.
- Holbrook Grocery Co., Keene, Woodsville, and Nashua, N. H. Coffee and tea. No. 107,614; Dec. 14; Gaz. vol. 221; p. 732.
- Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Popcorn-machines. No. 104,978; June 29; Gaz. vol. 215; p. 1494.
- Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. No. 104,940; June 29; Gaz. vol. 215; p. 1493.
- Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. No. 106,610; Oct. 26; Gaz. vol. 219; p. 1229.
- Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. No. 107,819; Dec. 28; Gaz. vol. 221; p. 1447.
- Holland Specialty Company, Indianapolis, Ind. Tooth-cleansers. No. 107,519; Dec. 7; Gaz. vol. 221; p. 346.
- Holland System, Inc., Boston, Mass. Ale, beer, and stout. No. 102,631; Feb. 16; Gaz. vol. 211; p. 953.
- Hollandsche Melksuikerfabriek, Amsterdam, Netherlands. Milk-sugar. No. 105,483; July 27; Gaz. vol. 216; p. 1314.
- Holliston Mills, The, Norwood, Mass. Sized and stiffened cloth. No. 103,318; Mar. 30; Gaz. vol. 212; p. 1684.
- Holliston Mills, The, Norwood, Mass. Sized, stiffened, and finished cloth for bookbinding. No. 104,453; June 1; Gaz. vol. 215; p. 317.
- Holly, Henry W., Brooklyn, N. Y. Sanitary napkins. No. 102,099; Jan. 26; Gaz. vol. 210; p. 1389.
- Holly, Henry W., Brooklyn, N. Y. Sanitary napkins. No. 107,174; Nov. 16; Gaz. vol. 220; p. 1036.
- Holman Soap Co., Chicago, Ill. Certain named toilet preparations. No. 106,330; Oct. 19; Gaz. vol. 219; p. 921.
- Holman Soap Co., Chicago, Ill. Certain named pharmaceutical preparations. No. 107,684; Dec. 21; Gaz. vol. 221; p. 1035.
- Holmes Manufacturing Company, New Bedford, Mass. Cotton yarns. No. 102,797; Feb. 23; Gaz. vol. 211; p. 1259.
- Holmes Manufacturing Company, New Bedford, Mass. Cotton yarns. No. 102,861; Feb. 23; Gaz. vol. 211; p. 1261.
- Holmes & Son, Washington, D. C. Bread, cake, and pies. No. 104,979; June 29; Gaz. vol. 215; p. 1494.
- Holt Manufacturing Company, The, Stockton, Cal. Traction-engines. No. 107,069; Nov. 9; Gaz. vol. 220; p. 673.
- Holt Manufacturing Company, The, Stockton, Cal. Traction-engines. No. 107,260; Nov. 16; Gaz. vol. 220; p. 1039.
- Holzer & Wickner, New York and Brooklyn, N. Y. Stamped art needlework and embroidery. No. 104,220; May 11; Gaz. vol. 214; p. 677.
- Home Chemical Company Inc., New York, N. Y. Laxative tablets. No. 102,411; Feb. 9; Gaz. vol. 211; p. 635.
- Home Creamery Manufacturing Company, Owatonna, Minn. Butter. No. 102,100; Jan. 26; Gaz. vol. 210; p. 1390.
- Home Golf Game Company, Chicago, Ill. Game-boards. No. 107,741; Dec. 28; Gaz. vol. 221; p. 1445.
- Home Maid Products Co., New York, N. Y. Chili sauce and marmalade. No. 104,727; June 15; Gaz. vol. 215; p. 972.
- Home Mill & Grain Co., Mount Vernon, Ind. Wheat-flour. No. 102,101; Jan. 26; Gaz. vol. 210; p. 1390.

- Home Mill & Grain Co., Mount Vernon, Ind. Wheat-flour. No. 102,279; Feb. 2; Gaz. vol. 211; p. 280.
- Home Washing Machine Co., Inc., The, New York, N. Y. Washing-machines. No. 103,661; Apr. 13; Gaz. vol. 213; p. 739.
- Homelite Canning & Packing Co., San Francisco, Cal. Canned fish. No. 103,000; Mar. 16; Gaz. vol. 212; p. 1049.
- Homo-Tone Mfg. Co., New York, N. Y. Laxative pills. No. 105,267; July 13; Gaz. vol. 216; p. 659.
- Hood, Calvin T., Chicago, Ill. Disinfectant. No. 106,103; Oct. 12; Gaz. vol. 219; p. 581.
- Hood Rubber Co. (See Pioneer Shoe & Rubber Company, assignor.)
- Hood Rubber Company, Boston, Mass. Rubber boots, shoes, and overshoes. No. 101,637; Jan. 5; Gaz. vol. 210; p. 393.
- Hood Rubber Company, Watertown, Mass. Vulcanized pneumatic tires and tubes therefor and vulcanized cushion-tires. No. 105,413; July 20; Gaz. vol. 216; p. 1010.
- Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, and overshoes and canvas boots and shoes having rubber soles vulcanized thereto. No. 106,331; Oct. 19; Gaz. vol. 219; p. 921.
- Hood Rubber Co., Watertown, Mass. Rubber boots, shoes, and overshoes. No. 107,337; Nov. 23; Gaz. vol. 220; p. 1363.
- Hood Rubber Company, Watertown, Mass. Rubber boots and shoes and tennis-shoes. No. 107,756; Dec. 28; Gaz. vol. 221; p. 1446.
- Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, overshoes, &c. Nos. 107,757-8; Dec. 28; Gaz. vol. 221; p. 1446.
- Hooley Hill Rubber & Chemical Co., Hooley Hill, near Manchester, England. Chemical substance for use with india-rubber during vulcanization process. No. 107,175; Nov. 16; Gaz. vol. 220; p. 1036.
- Hooper Sons' Manufacturing Co., Philadelphia, Pa. Laundry-nets. Nos. 105,727-8; Aug. 17; Gaz. vol. 217; p. 1049.
- Hoosier Box & Pie Plate Co., Marion, Ind. Fiber trays, basins, pans, plates, &c. No. 105,729; Aug. 17; Gaz. vol. 217; p. 1049.
- Hoosier Manufacturing Company, Newcastle, Ind. Butlers' and kitchen cabinets, cupboards, and tables. No. 106,611; Oct. 26; Gaz. vol. 219; p. 1229.
- Hope, William, Springfield, Ohio. Washing-machines. No. 105,730; Aug. 17; Gaz. vol. 217; p. 1049.
- Hope, William, Springfield, Ohio. Hydraulic motors. No. 106,441; Oct. 19; Gaz. vol. 219; p. 924.
- Hopeville Manufacturing Co., Worcester, Mass. Woolen textile fabrics. No. 106,862; Nov. 2; Gaz. vol. 220; p. 344.
- Hopkinson, Henry R., New York, N. Y. Linens, cotton goods, &c. No. 103,563; Apr. 6; Gaz. vol. 213; p. 356.
- Horace Partridge Company, The, Boston, Mass. Certain named sporting goods. No. 105,741; Aug. 17; Gaz. vol. 217; p. 1050.
- Horasan, Peter D., New York, N. Y. Cigarettes. No. 105,114; July 6; Gaz. vol. 216; p. 323.
- Horasan, Peter D., New York, N. Y. Cigarettes. No. 105,850; Aug. 24; Gaz. vol. 217; p. 1335.
- Horback, Peter A., Cincinnati, Ohio. Straight whisky. No. 102,654; Feb. 16; Gaz. vol. 211; p. 954.
- Horlick, Arnold A., Milwaukee, Wis. Certain named food. No. 105,355; July 20; Gaz. vol. 216; p. 1008.
- Horlick's Malted Milk Company, Racine, Wis. Certain named prepared foods. No. 105,593; Aug. 10; Gaz. vol. 217; p. 693.
- Horowitz, Arthur, Berlin, Germany. Remedy for corpulence. No. 103,026; Mar. 16; Gaz. vol. 212; p. 1050.
- Horton Cato Mfg. Co., The, Detroit, Mich. Salad-dressing, chili sauce, mustard, tomato catsup, &c. No. 103,696; Apr. 13; Gaz. vol. 213; p. 741.
- Hoskins Manufacturing Company, Detroit, Mich. Electric-resistor materials. No. 102,839; Feb. 23; Gaz. vol. 211; p. 1260.
- Hotelling-Warner Company, The, Syracuse, N. Y. Macaroni. No. 106,612; Oct. 26; Gaz. vol. 219; p. 1229.
- Houchin, Alfred W., Kirkwood, N. J. Dynamos. No. 102,103; Jan. 26; Gaz. vol. 210; p. 1390.
- Houghtaling, Theron J., Grimes, Iowa. Chilblain-salve, remedy for piles, and liniment. No. 107,176; Nov. 16; Gaz. vol. 220; p. 1036.
- Housman, William H., Chatham, N. Y. Automobile steering appliance. No. 107,685; Dec. 21; Gaz. vol. 221; p. 1035.
- Houston Ice & Brewing Co., Houston, Tex. Bottled beer. No. 102,895; Mar. 2; Gaz. vol. 212; p. 323.
- Houston Packing Company, Houston, Tex. Certain named canned meat products, &c. No. 101,738; Jan. 12; Gaz. vol. 210; p. 709.
- Houston Packing Company, Houston, Tex. Butter and eggs. No. 106,970; Nov. 9; Gaz. vol. 220; p. 670.
- Howard & Casey Co., Mount Vernon, Ill. Coffee. No. 105,435; July 27; Gaz. vol. 216; p. 1313.
- Howard Manufacturing Company, Boston, Mass. Yarns and thread. No. 102,970; Mar. 9; Gaz. vol. 212; p. 685.
- Howe, Bradford L., Newtonville, Mass. Candies and nuts. No. 107,177; Nov. 16; Gaz. vol. 220; p. 1036.
- Howitz & Co., Albert L., New York, N. Y. Ladies' hats. No. 104,686; June 8; Gaz. vol. 215; p. 664.
- Howser, Howard W., Baltimore, Md. Salve. No. 106,769; Oct. 26; Gaz. vol. 219; p. 1234.
- Hub Hosiery Mills, Boston, Mass. Infants' hose. No. 103,386; Mar. 30; Gaz. vol. 212; p. 1686.
- Hub Hosiery Mills, Boston, Mass. Infants' hose. No. 104,562; June 1; Gaz. vol. 215; p. 321.
- Hubbard Fertilizer Company, The, Baltimore, Md. Fertilizers. Nos. 102,606-11; Feb. 16; Gaz. vol. 211; p. 952.
- Huber & Co., H., Louisville, Ky. Whisky. No. 106,613; Oct. 26; Gaz. vol. 219; p. 1229.
- Hudson Condensed Milk Co., Inc., New York, N. Y. Evaporated milk. No. 102,106; Jan. 26; Gaz. vol. 210; p. 1390.
- Hudson Condensed Milk Co., Inc., New York, N. Y. Powdered, condensed, and evaporated milk, lactated tissue food, &c. No. 102,799; Feb. 23; Gaz. vol. 211; p. 1259.
- Hudson & Thurber Co., Minneapolis, Minn. Rubber belting and hose, leather belting, packing. No. 102,107; Jan. 26; Gaz. vol. 210; p. 1390.
- Hudson Valley Paper Co., Albany, N. Y. Printing, writing, and cover papers. No. 106,442; Oct. 19; Gaz. vol. 219; p. 924.
- Hughes, John I., Chicago, Ill. Moving-picture machines. No. 105,063; July 6; Gaz. vol. 216; p. 321.
- Hughes Oil Company, Beach, N. D. Gasolene and lubricating-oil. No. 106,864; Nov. 2; Gaz. vol. 220; p. 344.
- Hultzen, C. H., Norwich, N. Y. Clothes-cleaner, silver cleaner and plater, and rust-remover. No. 102,923; Mar. 2; Gaz. vol. 212; p. 324.
- Human Hair Goods Industry, New York, N. Y. Human hair. Nos. 101,739-40; Jan. 12; Gaz. vol. 210; p. 709.
- Human Hair Goods Industry, New York, N. Y. Human hair. No. 103,755; Apr. 13; Gaz. vol. 213; p. 742.
- Humboldt Creamery Co., Humboldt, Nebr. Butter. No. 106,971; Nov. 9; Gaz. vol. 220; p. 670.
- Humma, Osmond B., Sheldon, Ill. Dry powdered preparation for stomach diseases. No. 107,261; Nov. 16; Gaz. vol. 220; p. 1039.
- Humphrey, David, Cleveland, Ohio. Beverages sold as soft drinks. No. 107,262; Nov. 16; Gaz. vol. 220; p. 1039.
- Hunkele Bros., Union, N. J. Mayonnaisse. No. 106,770; Oct. 26; Gaz. vol. 219; p. 1234.
- Hunt & Co., F. W., Boston, Mass. Whisky. No. 102,108; Jan. 28; Gaz. vol. 210; p. 1390.
- Huntsman Remedy Company, St. Louis, Mo. Veterinary remedy for certain named ailments. No. 106,332; Oct. 19; Gaz. vol. 219; p. 921.
- Hurd, Charles R., New York, N. Y. Woolen piece goods. No. 104,369; May 25; Gaz. vol. 214; p. 1315.
- Huron Milling Company, The, Harbor Beach, Mich. Macaroni. No. 102,280; Feb. 2; Gaz. vol. 211; p. 280.
- Huyler's, New York, N. Y. Cocoa. No. 102,413; Feb. 9; Gaz. vol. 211; p. 635.
- Hydes, Mark, Newark, N. J. Tree sap or gum of the ficus-vine. No. 106,333; Oct. 19; Gaz. vol. 219; p. 921.
- Hydraulic-Press Brick Company, St. Louis, Mo. Brick. No. 104,423; May 25; Gaz. vol. 214; p. 1317.
- Hydraulic Pressed Steel Company, The, Cleveland, Ohio. Automobile frames, side rails, brake-drums, axle-housings, &c. No. 107,553; Dec. 7; Gaz. vol. 221; p. 347.
- Hydrex Felt & Engineering Company, The, Portland, Me.; New York, N. Y., and Rahway, N. J. Printed books, pamphlets, and periodicals. No. 102,896; Mar. 2; Gaz. vol. 212; p. 323.
- Hydrox Chemical Company, New York, N. Y. Tooth-paste, tooth, face, and talcum powders, &c. No. 106,771; Oct. 26; Gaz. vol. 219; p. 1234.
- Hygienic Fleece Underwear Company, Philadelphia, Pa. Athletic knit goods. No. 107,686; Dec. 21; Gaz. vol. 221; p. 1035.
- Hyman & Oppenheim, New York, N. Y. Hair-nets. No. 104,832; June 22; Gaz. vol. 215; p. 1257.
- Hyman & Oppenheim, New York, N. Y. Loose-leaf envelopes with perforated attached stub. No. 107,703; Dec. 21; Gaz. vol. 221; p. 1036.
- Hynard and Jung Company Inc., New York, N. Y. Ladies' waists and suits. No. 103,319; Mar. 30; Gaz. vol. 212; p. 1684.
- Hynson, Mary P., New York, N. Y. Salve for preventing irritation of the skin of infants. No. 101,638; Jan. 5; Gaz. vol. 210; p. 393.
- I. Hausman & Sons, Newark, N. J. Leather boots and shoes. No. 105,017; June 29; Gaz. vol. 215; p. 1496.
- I. B. Kleinert Rubber Company, New York, N. Y. Baby-pants. No. 105,419; July 20; Gaz. vol. 216; p. 1010.
- I. B. Kleinert Rubber Company, New York, N. Y. Brassieres and corset-covers. No. 107,787; Dec. 28; Gaz. vol. 221; p. 1446.
- Ibbott, Charles J., Edmonds, British Columbia, Canada. Starch-gloss. No. 105,659; Aug. 10; Gaz. vol. 217; p. 695.
- Iceless Refrigeration Company, The, Cleveland, Ohio. Refrigerating apparatus. No. 103,239; Mar. 23; Gaz. vol. 212; p. 1354.
- Icy-Hot-Bottle Company, The, Cincinnati, Ohio. Hot-water bottles of metal, &c. No. 102,971; Mar. 9; Gaz. vol. 212; p. 685.

Alphabetical list of registrants of trade-marks—Continued.

- Ide & Co., Geo. P., Troy, N. Y. Shirts, collars, and cuffs. No. 103,662; Apr. 13; Gaz. vol. 213; p. 739.
- Ideal Art Needlework Company, Philadelphia, Pa. Embroidery-patterns. No. 107,785; Dec. 28; Gaz. vol. 221; p. 1446.
- Ideal Novelty & Toy Co., New York, N. Y. Dolls. No. 102,109; Jan. 26; Gaz. vol. 210; p. 1390.
- Ideal Specialties Mfg. Corp., New York, N. Y. Eyeletting-machines. No. 106,156; Oct. 12; Gaz. vol. 219; p. 533.
- Ideal Specialties Mfg. Corp., New York, N. Y. Metal eyelets. No. 106,772; Oct. 26; Gaz. vol. 219; p. 1234.
- Illinois Electric Porcelain Co., Macomb, Ill. Knobs, cleats, tubes, switch-bases, &c., for electrical use. No. 107,575; Dec. 14; Gaz. vol. 221; p. 731.
- Illinois Knitting Company, Mount Vernon, Ill. Hosiery. No. 103,896; Apr. 20; Gaz. vol. 213; p. 1112.
- Illinois Seed Co., The, Chicago, Ill. Certain named field and grass seeds and seed-grain. No. 102,519; Feb. 9; Gaz. vol. 211; p. 638.
- Illinois Seed Co., The, Chicago, Ill. Certain field and grass seeds and seed-grain. Nos. 104,020-2; Apr. 27; Gaz. vol. 213; p. 1442.
- Illinois Seed Co., Chicago, Ill. Certain named seeds. No. 104,023; Apr. 27; Gaz. vol. 213; p. 1442.
- Illinois Seed Co., The, Chicago, Ill. Certain field and grass seeds and seed-grain. No. 104,024; Apr. 27; Gaz. vol. 213; p. 1442.
- Illinois Seed Co., Chicago, Ill. Field and grass seeds and seed-grain. No. 105,536; Aug. 3; Gaz. vol. 217; p. 336.
- Ilse, Henry, Bronxville, N. Y. Beer. No. 104,833; June 22; Gaz. vol. 215; p. 1257.
- Imperial Birch Beer Co., Dickson City, Pa. Soda-water syrup and non-alcoholic carbonated beverages. No. 105,485; July 27; Gaz. vol. 216; p. 1314.
- Imperial Candy Co., Milwaukee, Wis. Chocolate creams. No. 107,520; Dec. 7; Gaz. vol. 221; p. 346.
- Imperial Laboratories Co., Philadelphia, Pa. Effervescent salts. No. 106,443; Oct. 19; Gaz. vol. 219; p. 924.
- Imperial Manufacturing Company, The, Uhrichsville, Ohio. Deodorant. No. 102,565; Feb. 16; Gaz. vol. 211; p. 951.
- Imperial Underwear Company, Piqua, Ohio. Knit and woven union suits. No. 104,729; June 15; Gaz. vol. 215; p. 972.
- Imperial Wall Paper Company, Glens Falls, N. Y. Wallpapers. No. 106,157; Oct. 12; Gaz. vol. 219; p. 533.
- Importers Coffee Co. Ltd., New Orleans, La. Coffee and chicory compound and tea. No. 107,338; Nov. 23; Gaz. vol. 220; p. 1368.
- Importers Company, Denver, Colo. Certain named toilet preparations. Nos. 106,444-5; Oct. 19; Gaz. vol. 219; p. 924.
- Improved Office Partition Co., New York, N. Y. Interior partitions and parts and sections thereof. No. 102,566; Feb. 16; Gaz. vol. 211; p. 951.
- Independent Brewing Ass'n, Chicago, Ill. Beer. No. 104,688; June 8; Gaz. vol. 215; p. 664.
- Independent Brewing Company of Pittsburgh, Pittsburgh, Pa. Beer. Nos. 106,104-7; Oct. 12; Gaz. vol. 219; p. 581.
- Independent Lamp & Wire Company Inc., Weehawken, N. J., and New York, N. Y. Incandescent electric lamps. No. 106,334; Oct. 19; Gaz. vol. 219; p. 921.
- Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 103,240; Mar. 23; Gaz. vol. 212; p. 1354.
- India Rubber Company, New Brunswick, N. J., and New York, N. Y. Battery-jars. No. 104,410; May 25; Gaz. vol. 214; p. 1317.
- India Rubber Publishing Co., The, New York, N. Y. Monthly trade publication. No. 103,166; Mar. 16; Gaz. vol. 212; p. 1054.
- Indian Head Mills of Alabama, Cordova, Ala. Cotton piece and dress goods and drills. No. 103,615; Apr. 6; Gaz. vol. 213; p. 357.
- Indian Medicine Company, Las Cruces, N. Mex. Medicine for syphilis. No. 107,687; Dec. 21; Gaz. vol. 221; p. 1035.
- Industrial Chemical Company, New York, N. Y. Decolorizing-carbon, deodorizing and catalytic oxidizing materials. No. 103,782; Apr. 13; Gaz. vol. 213; p. 743.
- Industrial Chemical Company, New York, N. Y. Tanning materials and extracts. No. 104,730; June 15; Gaz. vol. 215; p. 972.
- Industrial Moving Picture Company, Chicago, Ill. Moving pictures. No. 101,707; Jan. 5; Gaz. vol. 210; p. 396.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Certain named machinery, tools, and parts thereof. No. 105,537; Aug. 3; Gaz. vol. 217; p. 336.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Fluid-operated hammer-drills. No. 105,660; Aug. 10; Gaz. vol. 217; p. 695.
- Ingham & Co., H. A., Waltham, Vt. Vegetable expectorant nervine. No. 105,412; July 20; Gaz. vol. 216; p. 1010.
- Ingram-Richardson Manufacturing Company, Beaver Falls, Pa. Enameled metal signs. No. 105,851; Aug. 24; Gaz. vol. 217; p. 1335.
- Ingram-Richardson Manufacturing Company, Beaver Falls, Pa. Enameled-metal door-plates. No. 106,233; Oct. 19; Gaz. vol. 219; p. 918.
- Inland Electric Co., Chicago, Ill. Armored flexible electric extension-conductors. No. 104,921; June 22; Gaz. vol. 215; p. 1260.
- Instant Products Co., Buffalo, N. Y. Polishes for wood-work, pianos, automobiles, &c. No. 104,538; June 1; Gaz. vol. 215; p. 320.
- Insulating Materials Company, Detroit, Mich. Sealing-waxes. No. 104,025; Apr. 27; Gaz. vol. 213; p. 1442.
- Insulating Materials Company, Detroit, Mich. Sealing-waxes. No. 105,299; July 13; Gaz. vol. 216; p. 660.
- Inter-State Grocer Co. Inc., The, Joplin, Mo. Certain named foods. No. 107,341; Nov. 23; Gaz. vol. 220; p. 1368.
- International Association of Rotary Clubs, Chicago, Ill. Periodical publication. No. 102,800; Feb. 23; Gaz. vol. 211; p. 1259.
- International Galalith-Gesellschaft Hoff & Co., Harburg-on-the-Elbe, Germany. Certain named telephone parts and base-blocks, &c., in electrical apparatus. No. 106,234; Oct. 19; Gaz. vol. 219; p. 918.
- International Glue Company, Boston, Mass. Fish-scrap. No. 105,357; July 20; Gaz. vol. 216; p. 1008.
- International Harvester Company of New Jersey, Chicago, Ill. Certain named machines and parts thereof. No. 101,708; Jan. 5; Gaz. vol. 210; p. 396.
- International Harvester Company of New Jersey, Chicago, Ill. Cultivators and harrows and parts thereof. No. 101,779; Jan. 12; Gaz. vol. 210; p. 710.
- International Harvester Company of New Jersey, Chicago, Ill. Certain named machinery and parts thereof. No. 101,780; Jan. 12; Gaz. vol. 210; p. 710.
- International Harvester Company of New Jersey, Chicago, Ill. Certain named machinery and parts thereof. No. 103,349; Mar. 30; Gaz. vol. 212; p. 1685.
- International Harvester Company of New Jersey, Chicago, Ill. Rope, cord, twine, and binder-twine. Nos. 106,972-5; Nov. 9; Gaz. vol. 220; p. 670.
- International Harvester Corporation, Chicago, Ill. Wagons and parts thereof. No. 103,387; Mar. 30; Gaz. vol. 212; p. 1686.
- International Harvester Corporation, Chicago, Ill. Four-cycle stationary engines and parts thereof. No. 104,389; May 25; Gaz. vol. 214; p. 1316.
- International Harvester Corporation, Chicago, Ill. Wagons, automobiles, motor-trucks, and parts thereof. No. 105,497; July 27; Gaz. vol. 216; p. 1315.
- International Heater Company, Utica, N. Y. Certain named heating apparatus and parts thereof. No. 107,339; Nov. 23; Gaz. vol. 220; p. 1368.
- International Horse Shoe Co., The, Hartford, Conn. Horse-shoes. No. 107,340; Nov. 23; Gaz. vol. 220; p. 1368.
- International High Speed Steel Company, New York, N. Y. Hollow and solid bars of steel. No. 104,257; May 11; Gaz. vol. 214; p. 679.
- International Manufacturers Agency, Inc., The, New York, N. Y. Snap-buttons. No. 105,538; Aug. 3; Gaz. vol. 217; p. 336.
- International Manufacturers Agency, Inc., New York, N. Y. Certain named fancy goods and notions. No. 106,335; Oct. 19; Gaz. vol. 219; p. 921.
- International Mfg. Co., Phillips, Me. Wooden toothpicks. No. 103,388; Mar. 30; Gaz. vol. 212; p. 1686.
- International Monthly Inc., The, New York, N. Y. Weekly magazine. No. 101,947; Jan. 19; Gaz. vol. 210; p. 1060.
- International Signal Company, Chicago, Ill. Electric signal-lamps. No. 103,266; Mar. 23; Gaz. vol. 212; p. 1355.
- International Stock Food Co., Minneapolis, Minn. Calf-meal. No. 106,614; Oct. 26; Gaz. vol. 219; p. 1229.
- International Sugar Feed No. Two Co., Minneapolis, Minn. Mixed feed for live stock. Nos. 104,328-9; May 18; Gaz. vol. 214; p. 1022.
- Interstate Cotton Oil Refining Co., Sherman, Tex. Soap. No. 101,948; Jan. 19; Gaz. vol. 210; p. 1060.
- Interstate Electric Co., New Orleans, La. Hand-grip for steering-wheel of automobiles, &c. No. 106,235; Oct. 19; Gaz. vol. 219; p. 918.
- Interstate Electric Novelty Company, New York, N. Y. Electric batteries. No. 101,850; Jan. 12; Gaz. vol. 210; p. 712.
- Interstate Manufacturing Company, Oskaloosa, Iowa. Hot-air furnaces. No. 101,781; Jan. 12; Gaz. vol. 210; p. 710.
- Interstate Puncture Proof Company, Denver, Colo. Compound for curing punctures in tires. No. 104,147; May 4; Gaz. vol. 214; p. 340.
- Interwoven Stocking Company, New Brunswick, N. J. Hosiery. No. 105,661; Aug. 10; Gaz. vol. 217; p. 695.
- Intravenous Products Company, The, Denver, Colo. Preparation for the intravenous treatment of syphilis, pellagra, and malaria. No. 101,851; Jan. 12; Gaz. vol. 210; p. 712.
- Intravenous Products Company, The, Denver, Colo. Intravenous treatment of syphilis, pellagra, and malaria. No. 104,615; June 8; Gaz. vol. 215; p. 662.
- Intravenous Products Company, The, Denver, Colo. Intravenous treatment of anemia. No. 104,616; June 8; Gaz. vol. 215; p. 662.
- Intravenous Products Company, The, Denver, Colo. Intravenous treatment of malaria. No. 104,617; June 8; Gaz. vol. 215; p. 662.
- Intravenous Products Company, The, Denver, Colo. Intravenous treatment of certain named diseases. No. 104,834; June 22; Gaz. vol. 215; p. 1257.

- Intravenous Products Company, The, Denver, Colo. Pyorrhea dentalis and alveolaris. No. 105,789; Aug. 17; Gaz. vol. 217; p. 1051.
- Iowa Soap Co., Burlington, Iowa. Soap. No. 102,880; Feb. 23; Gaz. vol. 211; p. 1261.
- Irgens, Louis S., Oakland, Cal. Individual antiseptic and styptic applicators. No. 103,898; Apr. 20; Gaz. vol. 213; p. 1112.
- Iroquois Brewing Company, Buffalo, N. Y. Malt soft drink. No. 107,491; Dec. 7; Gaz. vol. 221; p. 345.
- Irwin Auger Bit Company, The, Wilmington, Ohio. Auger-bits. No. 101,741; Jan. 12; Gaz. vol. 210; p. 709.
- Irwin, Sadie L., Minneapolis, Minn. Ointment. No. 107,070; Nov. 9; Gaz. vol. 220; p. 673.
- Isaacs & Co., Renb, New York, N. Y. Men's outer suits. No. 105,064; July 6; Gaz. vol. 216; p. 321.
- Iten Biscuit Co., Omaha, Neb. Crackers and cakes. No. 103,062; Mar. 16; Gaz. vol. 212; p. 1051.
- Iten Biscuit Co., Omaha, Neb. Crackers, cakes, and biscuits. No. 103,897; Apr. 20; Gaz. vol. 213; p. 1112.
- J. Allen Smith & Company, Knoxville, Tenn. Wheat-flour. No. 107,102; Nov. 9; Gaz. vol. 220; p. 674.
- J. Allen Smith & Company, Knoxville, Tenn. Mixed flour made from wheat and corn. No. 107,209; Nov. 16; Gaz. vol. 220; p. 1037.
- J. A. Pozzoni Pharmacal Co., The, Chicago, Ill. Face and rice powders and rouge. No. 106,365; Oct. 19; Gaz. vol. 219; p. 922.
- J. Baker & Sons, Evansville, Ind. Men's overalls, jackets, trousers, and work-shirts. No. 101,669; Jan. 5; Gaz. vol. 210; p. 394.
- J. Baker & Sons, Evansville, Ind. Men's and boys' overalls. No. 104,926; June 29; Gaz. vol. 215; p. 1493.
- J. Spencer Turner Company, New York, N. Y. Cotton duck, cotton piece and dress goods. No. 103,832; Apr. 13; Gaz. vol. 213; p. 745.
- J. A. Scriven Company, New York, N. Y. Outer and dress shirts, pajamas, union suits, undershirts, and under-drawers. No. 102,695; Feb. 23; Gaz. vol. 211; p. 1250.
- J. B. Greenhut Co., successors to Greenhut-Siegel Cooper Co., Inc., New York, N. Y. Leather shoes. No. 105,350; July 20; Gaz. vol. 216; p. 1008.
- J. B. Morgan Co., Inc., Norfolk, Va. Butter. No. 102,142; Jan. 24; Gaz. vol. 210; p. 1391.
- J. B. Williams Company, The, Glastonbury, Conn. Tale and face powders, toilet water, and dental cream. No. 105,492; July 27; Gaz. vol. 216; p. 1315.
- J. B. Williams Company, The, Glastonbury, Conn. Toilet soap. No. 105,770; Aug. 17; Gaz. vol. 217; p. 1050.
- J. B. Williams Company, The, Glastonbury, Conn. Toilet soap. No. 106,388; Oct. 19; Gaz. vol. 219; p. 923.
- J. C. Grant Chemical Company, East St. Louis, Ill. Baking-powder. No. 101,846; Jan. 12; Gaz. vol. 210; p. 712.
- J. C. Pearson Co., Inc., Boston, Mass. Coated nails. No. 102,812; Feb. 23; Gaz. vol. 211; p. 1259.
- J. D. Riedel Aktiengesellschaft, Berlin, Germany. Sedative, antipyretic, antimalarial, &c., compounds. No. 104,825; June 22; Gaz. vol. 215; p. 1257.
- J. D. Riedel Aktiengesellschaft, Berlin, Germany. Iodine-containing medicinal preparations. No. 104,990; June 29; Gaz. vol. 215; p. 1495.
- J. & E. Atkinson Limited, London, England. Certain toilet preparations and court-plaster. No. 102,956; Mar. 9; Gaz. vol. 212; p. 685.
- J. & E. Atkinson Limited, London, England. Perfumed soaps for washing and shaving. No. 103,804; Apr. 13; Gaz. vol. 213; p. 744.
- J. E. Robinson Mfg. Co., Chicago, Ill. Temperature-indicators. No. 105,397; July 20; Gaz. vol. 216; p. 1009.
- J. E. Soper Co., Boston, Mass. Cotton-seed meal. No. 103,707; Apr. 13; Gaz. vol. 213; p. 741.
- J. F. Budd Shoe Company, Burlington, N. J. Infants' and children's leather shoes. No. 101,620; Jan. 5; Gaz. vol. 210; p. 393.
- J. F. Hillerich & Son Co., Inc., Louisville, Ky. Base-ball bats. No. 105,816; Aug. 17; Gaz. vol. 217; p. 1052.
- J. & G. Cox, Ltd., Edinburgh, Scotland. Prepared wheat-flour. No. 103,314; Mar. 30; Gaz. vol. 212; p. 1684.
- J. H. Anderson & Co., Inc., Philadelphia, Pa. Extracts, &c. No. 105,522; Aug. 3; Gaz. vol. 217; p. 335.
- J. H. Bunnell & Co., New York, N. Y. Dry batteries, fire-alarm boxes, electric lanterns, &c. No. 104,176; May 4; Gaz. vol. 214; p. 340.
- J. H. Orr Co., Nashville, Tenn. Certain named foods. No. 104,644; June 8; Gaz. vol. 215; p. 662.
- J. H. Rice & Friedmann Co., Milwaukee, Wis. Shirts and blouses. No. 102,175; Jan. 26; Gaz. vol. 210; p. 1392.
- J. H. Williams & Co., New York, N. Y. Metal forgings and castings and steel. No. 103,018; Mar. 16; Gaz. vol. 212; p. 1049.
- J. H. Williams & Co., New York, N. Y. Certain named machinery and tools and parts thereof. No. 104,112; Apr. 27; Gaz. vol. 213; p. 1444.
- J. H. Williams & Co., New York, N. Y. Steels and high-speed steels. No. 104,813; June 15; Gaz. vol. 215; p. 974.
- J. H. Winchell & Co., Inc., Haverhill, Mass. Leather shoes. No. 102,235; Jan. 26; Gaz. vol. 210; p. 1394.
- J. I. Case Plow Works, Racine, Wis. Plows, cultivators, planters, &c., and parts thereof. Nos. 104,189-90; May 4; Gaz. vol. 214; p. 341.
- J. J. Badenoch Co., Chicago, Ill. Mixed feed for horses. No. 107,043; Nov. 9; Gaz. vol. 220; p. 672.
- J. J. Badenoch Co., Chicago, Ill. Prepared mixed feed for cattle. No. 107,307; Nov. 23; Gaz. vol. 220; p. 1367.
- J. & J. Baldwin & Partners, Limited, Halifax, England. Yarns of wool, worsted, or hair. No. 101,900; Jan. 19; Gaz. vol. 210; p. 1059.
- J. and J. Baldwin & Partners, Limited, Halifax, England. Yarns of wool, worsted, or hair. No. 103,883; Apr. 20; Gaz. vol. 213; p. 1112.
- J. & J. G. Wallach, New York, N. Y. Boxes, envelopes, wrappers, or containers made of cardboard, &c., for laundry. No. 105,991; Sept. 7; Gaz. vol. 218; p. 317.
- J. K. Armsby Co., The, San Francisco, Cal. Canned fruits, spices, and syrup for foods. No. 102,354; Feb. 9; Gaz. vol. 211; p. 634.
- J. K. Armsby Co., The, San Francisco, Cal. Rice, tapioca, and vegetables. No. 102,780; Feb. 23; Gaz. vol. 211; p. 1258.
- J. K. Armsby Co., The, San Francisco, Cal. Canned fruits and vegetables. Nos. 103,080-3; Mar. 16; Gaz. vol. 212; p. 1051.
- J. K. Armsby Co., The, San Francisco, Cal. Dried and evaporated fruits and raisins. No. 103,989; Apr. 27; Gaz. vol. 213; p. 1441.
- J. K. Armsby Co., The, San Francisco, Cal. Dried fruits. No. 104,523; June 1; Gaz. vol. 215; p. 319.
- J. K. Armsby Co., The, San Francisco, Cal. Certain named foods. No. 104,684; June 8; Gaz. vol. 215; p. 664.
- J. K. Armsby Co., The, San Francisco, Cal. Canned vegetables. No. 107,041; Nov. 9; Gaz. vol. 220; p. 672.
- J. K. Orr Shoe Co., Atlanta, Ga. Leather shoes. No. 101,647; Jan. 5; Gaz. vol. 210; p. 394.
- J. K. Orr Shoe Co., Atlanta, Ga. Leather shoes. No. 101,869; Jan. 12; Gaz. vol. 210; p. 713.
- J. L. Kraft & Bros. Co., Chicago, Ill., and New York, N. Y. Cheese. No. 107,429; Nov. 23; Gaz. vol. 220; p. 1370.
- J. L. Smiley & Company, Blaine, Wash. Canned salmon. No. 102,547; Feb. 9; Gaz. vol. 211; p. 639.
- J. L. Smiley & Company, Blaine, Wash. Canned salmon. No. 103,769; Apr. 13; Gaz. vol. 213; p. 743.
- J. L. Smiley & Company, Blaine, Wash. Canned salmon. No. 107,019; Nov. 9; Gaz. vol. 220; p. 672.
- J. M. McCullough's Sons Company, The, Cincinnati, Ohio. Seeds. No. 105,918; Aug. 24; Gaz. vol. 217; p. 1337.
- J. M. Selzer C. & B. W. Mfg. Co., The, St. Louis, Mo. Carriages, buggies, and wagons. No. 101,799; Jan. 12; Gaz. vol. 210; p. 711.
- J. M. Selzer C. & B. W. Mfg. Co., St. Louis, Mo. Carriages, buggies, and wagons. No. 102,190; Jan. 26; Gaz. vol. 210; p. 1392.
- J. Marx & Company, London, England. Paper-making machinery. No. 106,114; Oct. 12; Gaz. vol. 219; p. 581.
- J. N. Murdoch Company, Parkersburg, W. Va. Remedy for the treatment of certain named diseases. No. 106,173; Oct. 12; Gaz. vol. 219; p. 583.
- J. P. Payor & Co., Inc., New York, N. Y. Moving-picture equipment and screens. No. 104,105; Apr. 27; Gaz. vol. 213; p. 1444.
- J. S. Merrell Drug Co., St. Louis, Mo. Soap. No. 102,294; Feb. 2; Gaz. vol. 211; p. 280.
- J. T. Slocumb Company, Providence, R. I. Micrometers. No. 102,458; Feb. 9; Gaz. vol. 211; p. 637.
- J. W. Beardsley's Sons, New York, N. Y. Vegetable extract. No. 102,732; Feb. 23; Gaz. vol. 211; p. 1257.
- J. W. Buckley Rubber Co., New York, N. Y. Rubber tubing, hose, rubber and cotton fire-hose and mill-hose, &c. No. 104,044; Apr. 27; Gaz. vol. 213; p. 1442.
- J. W. Buckley Rubber Co., New York, N. Y. Certain named hose, belting, packing, valves, &c. No. 107,600; Dec. 14; Gaz. vol. 221; p. 732.
- J. W. & A. P. Howard & Co. Ltd., Corry, Pa. Sole-leather. No. 105,534; Aug. 3; Gaz. vol. 217; p. 335.
- Jaburg Bros., New York, N. Y. Certain named foods. No. 107,342; Nov. 23; Gaz. vol. 220; p. 1368.
- Jaburg Bros., New York, N. Y. Wooden bread, carrying, and proof boxes, cake-boards, troughs. No. 107,422; Nov. 23; Gaz. vol. 220; p. 1370.
- Jaburg Bros., New York, N. Y. Certain named bakers' and confectioners' appliances. No. 107,423; Nov. 23; Gaz. vol. 220; p. 1370.
- Jaburg Brothers, New York, N. Y. Powdered milk for cream filling, cakes, and bread. No. 105,790; Aug. 17; Gaz. vol. 217; p. 1051.
- Jaburg Brothers, New York, N. Y. Certain named foods. No. 107,492; Dec. 7; Gaz. vol. 221; p. 345.
- Jack Shannon Company, The, Chicago, Ill. Certain named sporting goods. No. 105,760; Aug. 17; Gaz. vol. 217; p. 1050.
- Jackman, George M., Columbus, Ohio. Preparation for the treatment of certain named diseases. No. 104,910; June 22; Gaz. vol. 215; p. 1259.
- Jackson Company, Nashua, N. H. Cotton piece and dress goods. No. 104,056; Apr. 27; Gaz. vol. 213; p. 1443.
- Jackson Company, Nashua, N. H. Cotton piece goods and napkins. No. 105,539; Aug. 3; Gaz. vol. 217; p. 336.
- Jackson Drug Co., Wildwood, N. J. Remedy for stomach and liver ailments. No. 107,424; Nov. 23; Gaz. vol. 220; p. 1370.
- Jacob Petry Suction Retainer Company, Charleston, W. Va., and Pittsburgh, Pa. Dentist-plates. No. 104,886; June 22; Gaz. vol. 215; p. 1259.

Alphabetical list of registrants of trade-marks—Continued.

- Jacob Ries Bottling Works, Inc., Shakopee, Minn. Soft-drink beverage made from a beer base carbonated. No. 103,444; Apr. 6; Gaz. vol. 213; p. 352.
- Jacobs Bros. & Levene, Baltimore, Md. Middy-blouses. No. 105,210; July 13; Gaz. vol. 216; p. 658.
- Jacobs, Joseph S., New York, N. Y. Laxative. No. 102,110; Jan. 26; Gaz. vol. 210; p. 1390.
- Jacques, Chas. A., New York, N. Y. Chime-clocks, clocks, and clock-works. No. 107,615; Dec. 14; Gaz. vol. 221; p. 732.
- Jacser-Smedsvik Co., The, Haugesund, Norway. Canned fish. Nos. 105,594-5; Aug. 10; Gaz. vol. 217; p. 693.
- Jäger Engine Company, Taunton, Mass. Gasolene and kerosene engines, pumps, and bolists. No. 102,111; Jan. 26; Gaz. vol. 210; p. 1390.
- Jake Tennenbaum Co., The, Cincinnati, Ohio. Certain named furniture. No. 102,987; Mar. 9; Gaz. vol. 212; p. 686.
- Jalkoff Bros., New York, N. Y. Fur scarfs and muffs. Nos. 104,941-3; June 29; Gaz. vol. 215; p. 1493.
- James A. McClurg & Sons, Inc., New York, N. Y. Candy. No. 103,028; Mar. 16; Gaz. vol. 212; p. 1050.
- James B. Clow & Sons, Chicago, Ill. Radiators. No. 104,117; May 4; Gaz. vol. 214; p. 339.
- James H. Dunham & Co., New York, N. Y. Percales and cotton piece goods. No. 101,674; Jan. 5; Gaz. vol. 210; p. 395.
- James H. Dunham & Co., New York, N. Y. Kid gloves. No. 104,445; June 1; Gaz. vol. 215; p. 317.
- James H. Rhodes & Company, Inc., Chicago, Ill. Putty-powder. No. 107,282; Nov. 16; Gaz. vol. 220; p. 1039.
- James Hanley Brewing Company, The, Providence, R. I. Ale, porter, and lager-beer. Nos. 106,432-5; Oct. 19; Gaz. vol. 219; p. 924.
- James McDonnell Co., Mobile, Ala. Wheat-flour. No. 107,359; Nov. 23; Gaz. vol. 220; p. 1368.
- James & Morgan Manufacturing Company, New York, N. Y. Razor-strops. No. 104,731; June 15; Gaz. vol. 215; p. 972.
- James, Mrs. L. W., State Line, Miss. Remedy for certain named ailments. No. 104,455; June 1; Gaz. vol. 215; p. 317.
- James S. Kirk & Company, Chicago, Ill. Laundry, bath, and toilet soap. No. 106,339; Oct. 19; Gaz. vol. 219; p. 921.
- James T. Downey Company, Chicago, Ill. Oleomargarin. No. 102,514; Feb. 9; Gaz. vol. 211; p. 638.
- James T. Downey Company, Chicago, Ill. Oleomargarin. No. 103,228; Mar. 23; Gaz. vol. 212; p. 1354.
- James, William T., Chicago, Ill. Preparation for application in the mouth, throat, and nasal passages. No. 103,783; Apr. 13; Gaz. vol. 213; p. 743.
- James, Eva J., Columbus, Ohio. Liquid preparation for cleaning and preserving varnished and painted surfaces. No. 105,163; July 6; Gaz. vol. 216; p. 324.
- Janney & Co., Thomas, Philadelphia, Pa. Leather in unmanufactured form. No. 104,305; May 18; Gaz. vol. 214; p. 1021.
- Janney-Steinmetz & Co., Philadelphia, Pa. Seamless tanks. No. 106,446; Oct. 19; Gaz. vol. 219; p. 925.
- Jap-Art Brush Co., New York, N. Y. Artists' brushes. No. 105,540; Aug. 3; Gaz. vol. 217; p. 336.
- Japan Import and Export Commission Co., New York, N. Y. Certain named toys. No. 107,178; Nov. 16; Gaz. vol. 220; p. 1036.
- Japanese Tissue Mills, Holyoke, Mass. Tissue napkins and paper towels. No. 107,724; Dec. 21; Gaz. vol. 221; p. 1036.
- Jarvis, Anna, Philadelphia, Pa. Cartons, boxes, and paper bags. No. 103,855; Apr. 20; Gaz. vol. 213; p. 1111.
- Jas. H. Forbes Tea & Coffee Co., St. Louis, Mo. Coffee. No. 102,969; Mar. 9; Gaz. vol. 212; p. 685.
- Jas. H. Forbes Tea & Coffee Co., St. Louis, Mo. Coffee. No. 107,165; Nov. 16; Gaz. vol. 220; p. 1036.
- Jay Chocolate Company, Boston, Mass. Candy. No. 102,281; Feb. 2; Gaz. vol. 211; p. 280.
- Jaynes Drug Co., Boston, Mass. Preparations for certain diseases and conditions of the human body. No. 101,852; Jan. 12; Gaz. vol. 210; p. 713.
- Jaynes Drug Co., Boston, Mass. Cigars, cigarettes, cheroots, and cut tobacco. No. 101,949; Jan. 19; Gaz. vol. 210; p. 1060.
- Jaynes Drug Company, Boston, Mass. Chocolates. No. 105,268; July 13; Gaz. vol. 216; p. 659.
- Jaynes Drug Co., Boston, Mass. Preparations for chronic constipation and laxatives. No. 107,179; Nov. 16; Gaz. vol. 220; p. 1036.
- Jaynes Drug Co., Boston, Mass. Preparations for relieving certain named ailments. No. 107,180; Nov. 16; Gaz. vol. 220; p. 1036.
- Jeffrey Manufacturing Company, The, Columbus, Ohio. Chains and parts thereof. No. 105,915; Aug. 24; Gaz. vol. 217; p. 1337.
- Jenkins Bros., Elizabeth, N. J., and New York, N. Y. Metallic valves and parts thereof. No. 105,115; July 6; Gaz. vol. 216; p. 323.
- Jennings & Griffin Manufacturing Co., The, Yalesville, Conn. Certain cutlery, tools, and parts thereof. No. 105,356; July 20; Gaz. vol. 216; p. 1008.
- Jentzsch, Richard, Chicago, Ill. Self-retaining uterine tube. No. 103,899; Apr. 20; Gaz. vol. 213; p. 1112.
- Jerkins, William L., Moultrie, Ga. Eye-water. No. 105,817; Aug. 17; Gaz. vol. 217; p. 1052.
- Jersey Leather Company, Camden, N. J. Patent-leather. No. 107,521; Dec. 7; Gaz. vol. 221; p. 346.
- Jesse French Piano and Organ Company, St. Louis, Mo. Talking-machines. No. 105,723; Aug. 17; Gaz. vol. 217; p. 1049.
- Jesse French & Sons Piano Co., Newcastle, Ind. Pianos. No. 101,936; Jan. 19; Gaz. vol. 210; p. 1060.
- Jesse L. Lasky Feature Play Co. Inc., New York, N. Y. Motion-pictures. No. 105,389; Mar. 30; Gaz. vol. 212; p. 1686.
- Jewel Vacuum Cleaner Co., Chicago, Ill. Vacuum-cleaners. No. 103,290; Mar. 30; Gaz. vol. 212; p. 1683.
- Jianellis, Gustantinos Y., Detroit, Mich. Scalp and dandruff preparation. No. 104,732; June 15; Gaz. vol. 215; p. 972.
- Jiffy Apron Company, Detroit, Mich. Overalls. No. 102,521; Feb. 9; Gaz. vol. 211; p. 638.
- Jiffy Fire Hose Rack Co., New York, N. Y. Certain named plumbers' supplies, shower-baths and accessories, and curtain-pins. No. 101,709; Jan. 5; Gaz. vol. 210; p. 396.
- Jno. H. Orr Co., Nashville, Tenn. Canned peas, corn, pumpkin, hominy, &c. No. 101,972; Jan. 19; Gaz. vol. 210; p. 1061.
- John B. Canepa Company, The, Chicago, Ill. Macaroni, spaghetti, vermicelli, and noodles. No. 102,041; Jan. 26; Gaz. vol. 210; p. 1388.
- John B. Varick Company, Manchester, N. H. Lubricating-oils. No. 106,916; Nov. 2; Gaz. vol. 220; p. 346.
- John Blaul's Sons Co., Burlington, Iowa. Cigars, cigarettes, fine-cut and smoking tobaccos, snuff. No. 103,411; Apr. 6; Gaz. vol. 213; p. 351.
- John Blaul's Sons Co., Burlington, Iowa. Tea and roasted coffee. No. 106,733; Oct. 26; Gaz. vol. 219; p. 1232.
- John C. Dettra & Co. Inc., Oaks, Pa. Toys. No. 101,775; Jan. 12; Gaz. vol. 210; p. 710.
- John Campbell & Co., New York, N. Y. Sizing and finishing product for textile fabrics. No. 105,011; June 29; Gaz. vol. 215; p. 1495.
- John Chatillon & Sons, New York, N. Y. Weighing machines and scales. No. 104,203; May 11; Gaz. vol. 214; p. 677.
- John Chatillon & Sons, New York, N. Y. Pocket, steel, or base-metal table, kitchen, and butcher knives. No. 105,187; July 13; Gaz. vol. 216; p. 657.
- John Dewsbury & Son Limited, Walsall, England. Certain named veterinary instruments, apparatus, contrivances, of metal. No. 102,380; Feb. 9; Gaz. vol. 211; p. 634.
- John Douglas Company, The, Cincinnati, Ohio. Water-closet fixtures. No. 104,380; May 25; Gaz. vol. 214; p. 1316.
- John, Ernest, Philadelphia, Pa. Continually-changing series of monthly publications on music. No. 105,853; Aug. 24; Gaz. vol. 217; p. 1335.
- John F. Jelke Co., Chicago, Ill. Oleomargarin and butterin. Nos. 103,320-1; Mar. 30; Gaz. vol. 212; p. 1684.
- John F. Jelke Co., Chicago, Ill. Oleomargarin and butterin. No. 104,148; May 4; Gaz. vol. 211; p. 340.
- John F. Sarle Company. (See Sarle, Harriet A., assignor.)
- John Gosnell & Company Limited, London, England. Perfumed, &c., soap and soap powder for the toilet. No. 107,783; Dec. 28; Gaz. vol. 221; p. 1446.
- John H. Wood Company, Philadelphia, Pa. Sage-quinin, hair-tonic, perfumery, &c. No. 101,814; Jan. 12; Gaz. vol. 210; p. 711.
- John Hamm Baking Company, St. Louis, Mo. Cake. No. 103,384; Mar. 30; Gaz. vol. 212; p. 1686.
- John Hauck Brewing Company, The, Cincinnati, Ohio. Beer. Nos. 104,386-7; May 25; Gaz. vol. 214; p. 1316.
- John Hoberg Co., The, Green Bay, Wis. Toilet-paper. No. 106,429; Oct. 19; Gaz. vol. 219; p. 924.
- John Hoberg Company, The, Green Bay, Wis. Toilet-paper. No. 106,609; Oct. 26; Gaz. vol. 219; p. 1229.
- John Hoberg Company, The, Green Bay, Wis. Toilet-paper. Nos. 107,811-12; Dec. 28; Gaz. vol. 221; p. 1447.
- John Hoffman Packing Co., The, Cincinnati, Ohio. Ham, bacon, shoulders, and lard. No. 107,336; Nov. 23; Gaz. vol. 220; p. 1368.
- John Knight, Limited, Silvertown, London, England. Compound for cleaning or detergent purposes. No. 102,898; Mar. 2; Gaz. vol. 212; p. 323.
- John Lucas & Company Incorporated, Philadelphia, Pa. Ready-mixed paints, furniture-polish, and enamels. Nos. 102,128-9; Jan. 26; Gaz. vol. 210; p. 1390.
- John M. Given, Inc., Pittsburgh, Pa.; New York, N. Y., and Chicago, Ill. Hosiery. No. 105,688; Aug. 10; Gaz. vol. 217; p. 696.
- John M. Roberts & Son Company, Pittsburgh, Pa. Certain named articles made of or plated with precious metals. No. 101,875; Jan. 12; Gaz. vol. 210; p. 713.
- John Marston, Limited, Wolverhampton, England. Cycles, motor-cycles, and side cars for motor-cycles. No. 103,857; Apr. 20; Gaz. vol. 213; p. 1111.
- John Murphy Umbrella Co. Inc., Maspeth and New York, N. Y. Umbrellas. No. 106,655; Oct. 26; Gaz. vol. 219; p. 1230.
- John Opitz, Inc., New York, N. Y. Insecticides and rodent-poisons. No. 107,368; Nov. 23; Gaz. vol. 220; p. 1369.

- John Opitz, Inc., New York, N. Y. Insecticides and rodent-poisons. No. 107,857; Dec. 28; Gaz. vol. 221; p. 1449.
- John Royle & Sons, Paterson, N. J. Routing-cutters. No. 102,177; Jan. 26; Gaz. vol. 210; p. 1392.
- John S. Naylor Company, The, Wheeling, W. Va. Velvets, woollens, worsteds, dress-linens, &c. No. 106,656; Oct. 26; Gaz. vol. 219; p. 1230.
- John S. Tilley Ladders Co., The, Watervliet, N. Y. Ladders. No. 106,382; Oct. 19; Gaz. vol. 219; p. 923.
- John Schroeder Lumber Company, Milwaukee, Wis. Wall-board. No. 107,745; Dec. 28; Gaz. vol. 221; p. 1445.
- John Simmons Co., New York, N. Y. Acetylene-lamps. No. 105,876; Aug. 24; Gaz. vol. 217; p. 1336.
- John Spicer, Inc., New York, N. Y. Swimming-suits. No. 107,563; Dec. 7; Gaz. vol. 221; p. 348.
- John T. Stanley Co. Inc., New York, N. Y. Soap. No. 106,379; Oct. 19; Gaz. vol. 219; p. 923.
- John Vittucci Co., Seattle, Wash. Olive-oil. No. 103,333; Mar. 30; Gaz. vol. 212; p. 1684.
- John W. Masury & Son, New York, N. Y. Polishing-oil for furniture, pianos, automobiles, &c. No. 105,118; July 6; Gaz. vol. 216; p. 323.
- John W. Masury & Son, New York, N. Y. Varnishes, stains, and enamels. No. 105,693; Aug. 10; Gaz. vol. 217; p. 696.
- John Wanamaker, New York, New York, N. Y. Certain named sporting implements. No. 107,718; Dec. 21; Gaz. vol. 221; p. 1036.
- John Wigmore & Sons Co., Los Angeles, Cal. Bronze metal compositions, Babbitt and bearing metals, castings. No. 102,321; Feb. 2; Gaz. vol. 211; p. 281.
- John Wigmore & Sons Co., Los Angeles, Cal. Bearings. No. 102,348; Feb. 9; Gaz. vol. 211; p. 633.
- John Wyeth & Brother, Incorporated, Philadelphia, Pa. Certain named medicines and pharmaceutical preparations. No. 104,497; June 1; Gaz. vol. 215; p. 319.
- Johns, Robert, Chicago, Ill. Aluminum cooking utensils. No. 102,112; Jan. 26; Gaz. vol. 210; p. 1390.
- Johnson Biscuit Company, Sioux City, Iowa. Candy. No. 102,113; Jan. 26; Gaz. vol. 210; p. 1390.
- Johnson, Edgar V., Lawrenceburg, Ky. Powdered-form rheumatism remedy. No. 104,877; June 22; Gaz. vol. 215; p. 1258.
- Johnson, Edward E., St. Paul, Minn. Pump-rod couplings. No. 103,202; Mar. 23; Gaz. vol. 212; p. 1353.
- Johnson, Frank P., Danville, Pa. Garment-hangers for trousers, skirts, coats, and suits. No. 105,211; July 13; Gaz. vol. 216; p. 658.
- Johnson, J. Bailey, Pittsburgh, Pa. Greaseless massage face-cream. No. 106,003; Sept. 14; Gaz. vol. 218; p. 599.
- Johnson, John O., Chicago, Ill. Lawn-seeds. No. 105,269; July 13; Gaz. vol. 216; p. 659.
- Johnson, John O., Chicago, Ill. Lawn-seeds. Nos. 105,596-7; Aug. 10; Gaz. vol. 217; p. 693.
- Johnson, John O., Chicago, Ill. Lawn-seeds. No. 105,897; Aug. 24; Gaz. vol. 217; p. 1337.
- Johnson-Layne Coffee Co., The, St. Louis, Mo. Coffee. No. 102,522; Feb. 9; Gaz. vol. 211; p. 638.
- Johnson & Son, S. C., Racine, Wis. Powdered and prepared waxes, wood-dye, paste wood-filler, &c. No. 106,108; Oct. 12; Gaz. vol. 219; p. 581.
- Johnstone, George F., Washington, D. C. Remedies for certain named ailments and diseases. No. 103,815; Apr. 13; Gaz. vol. 213; p. 744.
- Johnstone, Sadler and Company, Limited, London, England. Whisky. No. 105,854; Aug. 24; Gaz. vol. 217; p. 1335.
- Johnstown Chemical Company, Johnstown, Pa. Certain specified chemical and pharmaceutical preparations. No. 102,972; Mar. 9; Gaz. vol. 212; p. 685.
- Joliet Oil Tractor Co., The, Joliet, Ill. Tractors. No. 106,615; Oct. 26; Gaz. vol. 219; p. 1229.
- Jones, Howard B., Evanston, Ill. Bicycles. No. 101,952; Jan. 19; Gaz. vol. 210; p. 1060.
- Jones, Wylie B., Binghamton, N. Y. Remedy for diseases of women. No. 106,447; Oct. 19; Gaz. vol. 219; p. 925.
- Jop-pa Mattress Co., Little Rock, Ark. Mattresses. No. 102,283; Feb. 2; Gaz. vol. 211; p. 280.
- Jos. Middleby, Jr., Inc., Boston, Mass. Certain named foods. No. 106,652; Oct. 26; Gaz. vol. 219; p. 1230.
- José Lovera Co., New York, N. Y. Cigars. No. 102,864; Feb. 23; Gaz. vol. 211; p. 1261.
- Joseph Dixon Crucible Company, The, Jersey City, N. J. Lead-pencils. No. 107,493; Dec. 7; Gaz. vol. 221; p. 346.
- Joseph Fahys & Company, New York, N. Y. Knife-blades. No. 104,255; May 11; Gaz. vol. 214; p. 679.
- Joseph Horne Drug Co., St. Louis, Mo. Certain named medicines and pharmaceutical preparations. No. 102,102; Jan. 26; Gaz. vol. 210; p. 1390.
- Joseph, Joe, New York, N. Y. Certain named children's and infants' wearing-apparel. No. 101,742; Jan. 12; Gaz. vol. 210; p. 709.
- Joseph W. Schloss Co., New York, N. Y. Collar supporters and foundations. No. 102,453; Feb. 9; Gaz. vol. 211; p. 636.
- Joseph W. Schloss Co., New York, N. Y. Collar supporters and foundations. No. 103,968; Apr. 20; Gaz. vol. 213; p. 1114.
- Joslin Mfg. Co., Providence, R. I. Shoe-lacings. No. 102,612; Feb. 16; Gaz. vol. 211; p. 952.
- Joslin Mfg. Co., Providence, R. I. Lacing-tips. No. 106,616; Oct. 26; Gaz. vol. 219; p. 1229.
- Joslin Mfg. Co., Providence, R. I. Shoe and corset lacing tips. No. 106,617; Oct. 26; Gaz. vol. 219; p. 1229.
- Joslin Mfg. Co., Providence, R. I. Lacing-tips. Nos. 106,618-20; Oct. 26; Gaz. vol. 219; p. 1229.
- Jouannet, Alfred, Mount Pleasant, S. C. Souvenir-boxes. No. 105,662; Aug. 10; Gaz. vol. 217; p. 695.
- Joy, Russell T., New York and Brooklyn, N. Y. Furniture-polish, cleaner, polisher, and finisher for hardwood surfaces, &c. No. 101,710; Jan. 5; Gaz. vol. 210; p. 396.
- Joyce, G. A., London, England; New York, N. Y. and Irvington, N. Y. Alloy. No. 102,523; Feb. 9; Gaz. vol. 211; p. 638.
- Joyner, W. W., Smithfield, Va. Hams, bacon, sausage, and lard. No. 102,801; Feb. 23; Gaz. vol. 211; p. 1259.
- Judt, Joseph, Rockaway Beach, N. Y. Stomach-tonics. No. 105,541; Aug. 3; Gaz. vol. 217; p. 336.
- Juelg, Harry H., New York, N. Y. Furniture, piano, automobile, carriage, &c., polishes. No. 106,109; Oct. 12; Gaz. vol. 219; p. 581.
- Juergens Jewelry Company, New York, N. Y. Pierceless ear-rings. No. 106,976; Nov. 9; Gaz. vol. 220; p. 670.
- Julius Kalish, Inc., New York, N. Y. Certain named toilet preparations. No. 106,977; Nov. 9; Gaz. vol. 220; p. 670.
- Julius Kayser & Co., New York, N. Y. Gloves. No. 106,449; Oct. 19; Gaz. vol. 219; p. 925.
- Julius King Optical Co., New York, N. Y. Goggles. No. 106,238; Oct. 19; Gaz. vol. 219; p. 918.
- Justrite Manufacturing Company, Chicago, Ill. Oil and acetylene lamps and lanterns, generators, and lighters for same. No. 101,953; Jan. 19; Gaz. vol. 210; p. 1060.
- Justrite Manufacturing Company, Chicago, Ill. Garbage, oil, and waste cans. No. 103,952; Apr. 20; Gaz. vol. 213; p. 1114.
- Justrite Manufacturing Company, Chicago, Ill. Fire-extinguishers. No. 103,953; Apr. 20; Gaz. vol. 213; p. 1114.
- Justrite Mfg. Co., Inc., The, Buffalo, N. Y. Tea and coffee percolators. No. 105,818; Aug. 17; Gaz. vol. 217; p. 1052.
- Juskowski, Jos. J., Detroit, Mich. Certain brand of snuff-tobacco. No. 105,212; July 13; Gaz. vol. 216; p. 658.
- K. A. C. Power Manufacturing Company, Jersey City, N. J. Compounds to eradicate and prevent hard carbon formations in internal-combustion motors. No. 105,065; July 6; Gaz. vol. 216; p. 322.
- K. B. R. Milling Company, Marquette, Kans. Wheat-flour, animal and poultry feed. No. 103,816; Apr. 13; Gaz. vol. 213; p. 744.
- K. and W. Engineering Company, St. Paul, Minn. Individual electric-lighting plants. No. 106,621; Oct. 26; Gaz. vol. 219; p. 1229.
- Kabelwerk Duisburg, Aktien-Gesellschaft, Duisburg, Germany. Explosives, priming materials, matches, &c. No. 103,784; Apr. 13; Gaz. vol. 213; p. 743.
- Kaho Corset Company, Chicago, Ill. Hose-supporters. No. 106,622; Oct. 26; Gaz. vol. 219; p. 1229.
- Kahn-Beck Co., Los Angeles, Cal. Chocolates and candies. No. 107,344; Nov. 23; Gaz. vol. 220; p. 1368.
- Kahn-Beck Co., Los Angeles, Cal. Candy. No. 107,710; Dec. 21; Gaz. vol. 221; p. 1036.
- Kahn, Fernando H., San Francisco, Cal. Eyeglasses, spectacles, lenses, &c. No. 106,865; Nov. 2; Gaz. vol. 220; p. 344.
- Kahn Tailoring Company, Indianapolis, Ind. Special grade of cotton and woolen midsummer-suiting. No. 106,448; Oct. 19; Gaz. vol. 219; p. 925.
- Kalamazoo Vegetable Parchment Company, Kalamazoo, Mich. Paper ice-blankets and nursery-blankets. No. 104,456; June 1; Gaz. vol. 215; p. 317.
- Kaldy, Elizabeth, Belleville, N. J. Hair cream and tonic. No. 103,322; Mar. 30; Gaz. vol. 212; p. 1684.
- Kali Manufacturing Co., Philadelphia, Pa. Bleaching compositions. No. 107,711; Dec. 21; Gaz. vol. 221; p. 1036.
- Kalitzky, Waldemar, Milwaukee, Wis. Remedies for stomach and bowel ailments. No. 104,911; June 22; Gaz. vol. 215; p. 1259.
- Kalle Color & Chemical Co. Inc., New York, N. Y. Preparation to be used in the textile industry for clearing dyes and prints. No. 101,641; Jan. 5; Gaz. vol. 210; p. 394.
- Kallenberg, Herman, Jr., New Rochelle, N. Y. Hair-restorer. No. 104,288; May 18; Gaz. vol. 214; p. 1021.
- Kamm & Schellinger Brewing Co., The, Mishawaka, Ind. Beer. No. 104,171; May 4; Gaz. vol. 214; p. 340.
- Kandem Electric Company, Inc., New York, N. Y. Arc-lamps, hangers and carbons for same, and projectors. No. 104,800; June 15; Gaz. vol. 215; p. 974.
- Kansas City Wholesale Grocery Co., Kansas City, Mo. Canned fruits and vegetables, coffee. No. 101,954; Jan. 19; Gaz. vol. 210; p. 1060.
- Kansas City Wholesale Grocery Co., Kansas City, Mo. Cigars, chewing and smoking tobacco, cigarettes, and cheroots. No. 104,769; June 15; Gaz. vol. 215; p. 973.
- Kansas City Wholesale Grocery Co., Kansas City, Mo. Coffee. No. 107,071; Nov. 9; Gaz. vol. 220; p. 673.

Alphabetical list of registrants of trade-marks—Continued.

- Kansas City Wholesale Grocery Co., Kansas City, Mo. Baking-powder. No. 107,688; Dec. 21; Gaz. vol. 221; p. 1035.
- Kantleek Raincoat Company, Chicago, Ill. Certain named clothing. No. 101,711; Jan. 5; Gaz. vol. 210; p. 396.
- Kaplan, Charles, Philadelphia, Pa. Snuff. No. 107,616; Dec. 14; Gaz. vol. 221; p. 732.
- Kaplon, Abraham, Summit, N. J. Aprons. No. 104,289; May 18; Gaz. vol. 214; p. 1021.
- Kapp, William P., New York, N. Y. Leaf-tobacco. Nos. 101,743-4; Jan. 12; Gaz. vol. 210; p. 709.
- Karagheusian, A. & M., New York, N. Y. Textile rugs. No. 105,731; Aug. 17; Gaz. vol. 217; p. 1049.
- Kasprowicz, Firm of B., Gnesen, Germany. Brandy. No. 102,415; Feb. 9; Gaz. vol. 211; p. 635.
- Katz & Besthoff, Ltd., New Orleans, La. Talcum powder. No. 103,001; Mar. 16; Gaz. vol. 212; p. 1049.
- Katz, Philip, New York, N. Y. Serges. No. 103,167; Mar. 16; Gaz. vol. 212; p. 1054.
- Katzmaier Coal Co., Kansas City, Mo. Coal. No. 101,642; Jan. 5; Gaz. vol. 210; p. 394.
- Kaut-Reith Shoe Company, The, Carthage, Mo. Boots and shoes. No. 105,732; Aug. 17; Gaz. vol. 217; p. 1049.
- Keelber-Weyl Baking Company, Philadelphia, Pa. Cake, bread, biscuits, and cakes. No. 105,733; Aug. 17; Gaz. vol. 217; p. 1049.
- Keep-Nu Co., Chicago, Ill. Brass and metal, automobile and body, and silver polishes, and soap. No. 103,817; Apr. 13; Gaz. vol. 213; p. 744.
- Keers, John, Brooklyn, N. Y. Tube-spreading and brick-holding tools. No. 104,980; June 29; Gaz. vol. 215; p. 1494.
- Keever Starch Company, The, Columbus, Ohio. Wheat-starch and corn-starch and a combination of same. No. 107,446; Nov. 30; Gaz. vol. 220; p. 1715.
- Keewill & Son, C., Philadelphia, Pa. Furniture-polish and cleansing compound. No. 104,094; Apr. 27; Gaz. vol. 213; p. 1444.
- Kellar-Thomason Company, Los Angeles, Cal. Certain named irrigating apparatus and appliances. No. 102,114; Jan. 26; Gaz. vol. 210; p. 1390.
- Keller, Alvin H., Sioux Falls, S. D. Tuberculin test-plates. No. 107,345; Nov. 23; Gaz. vol. 220; p. 1368.
- Keller & Company, L. H., New York, N. Y. Jewelers' piercing-saws. No. 104,539; June 1; Gaz. vol. 215; p. 320.
- Keller Mechanical Engraving Co., New York, N. Y. Circular slide-rules. No. 107,263; Nov. 16; Gaz. vol. 220; p. 1039.
- Keller & Rhodes, Philadelphia, Pa. Leather boots and shoes. No. 103,063; Mar. 16; Gaz. vol. 212; p. 1051.
- Kelley & Co., Thos., Boston, Mass. Quilts. No. 107,848; Dec. 28; Gaz. vol. 221; p. 1448.
- Kelley, Grant S., New York, N. Y. Certain named goods and combinations of same in the piece. No. 101,955; Jan. 19; Gaz. vol. 210; p. 1060.
- Kelley Island Lime & Transport Company, The, Cleveland, Ohio. Lime. Nos. 107,425-7; Nov. 23; Gaz. vol. 220; p. 1370.
- Kelley Island Lime & Transport Company, The, Cleveland, Ohio. Lime. Nos. 107,554-5; Dec. 7; Gaz. vol. 221; p. 347.
- Kellner Frères, Paris, France. Coach and carriage bodies. No. 102,714; Feb. 23; Gaz. vol. 211; p. 1256.
- Kellner Frères, Paris, France. Coach and carriage bodies. No. 106,236; Oct. 19; Gaz. vol. 219; p. 918.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Corn confection. No. 106,978; Nov. 9; Gaz. vol. 220; p. 670.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Toasted corn flakes, wheat biscuits and flakes. No. 107,072; Nov. 9; Gaz. vol. 220; p. 673.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Soluble compound for making a food beverage. No. 102,416; Feb. 9; Gaz. vol. 211; p. 635.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Certain named paper. No. 102,924; Mar. 2; Gaz. vol. 212; p. 324.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Cereal beverages sold as soft drinks. No. 105,018; June 29; Gaz. vol. 215; p. 1496.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Cereal beverage for a soft drink. No. 105,019; June 29; Gaz. vol. 215; p. 1496.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Certain named foods. No. 105,213; July 13; Gaz. vol. 216; p. 658.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Wheat food product. No. 105,358; July 20; Gaz. vol. 216; p. 1008.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Breakfast cereal. No. 106,623; Oct. 26; Gaz. vol. 219; p. 1229.
- Kelly & Co., Thomas, Boston, Mass. Carriage-ropes, blankets, and steamer-rugs. No. 106,866; Nov. 2; Gaz. vol. 220; p. 344.
- Kelly, Edward J., Utica, N. Y. Smoking-tobacco. No. 107,229; Nov. 16; Gaz. vol. 220; p. 1038.
- Kelly, George W., Chicago, Ill. Woven and knitted union-suit underwear, undershirts, and drawers. No. 102,284; Feb. 2; Gaz. vol. 211; p. 280.
- Kelly, John A., Forsyth, Mont. Pharmaceutical preparations for the treatment of certain named internal and external ailments. No. 105,020; June 29; Gaz. vol. 215; p. 1496.
- Kelly, Mrs. Martha R., Corpus Christi, Tex. Prepared rice. No. 107,346; Nov. 23; Gaz. vol. 220; p. 1368.
- Kelsey, Frank E., Battle Creek, Mich. Syrups for making soft drinks. No. 106,867; Nov. 2; Gaz. vol. 220; p. 344.
- Kempier Bros., Philadelphia, Pa. Coffee. No. 102,417; Feb. 9; Gaz. vol. 211; p. 635.
- Kendall, Henry E., Shelby, N. C. Remedy for certain named ailments. No. 103,351; Mar. 30; Gaz. vol. 212; p. 1685.
- Kennedy, James E., Washington, D. C. Stove-burners and gas-stoves. No. 102,115; Jan. 26; Gaz. vol. 210; p. 1390.
- Kennedy Manufacturing Company, Fort Wayne, Ind. Travelers' bags and hand-grips. No. 104,330; May 18; Gaz. vol. 214; p. 1022.
- Kennedy, Robert S., New York, N. Y., assignor to Cyclecar & Motorette. Trade journal published periodically. No. 106,049; Sept. 21; Gaz. vol. 218; p. 873.
- Kentucky Carlsbad Springs Hotel Co., The, Dry Ridge, Ky. Mineral water. No. 107,667; Dec. 14; Gaz. vol. 221; p. 734.
- Kenyon, Clarence E., Great Falls, Mont. Insecticide. No. 106,110; Oct. 12; Gaz. vol. 219; p. 581.
- Kenyon, Thomas N., Minneapolis, Minn. Medicinal salve or ointment. No. 101,782; Jan. 12; Gaz. vol. 210; p. 710.
- Kern & Sons, John B. A., Milwaukee, Wis. Wheat-flour. No. 103,291; Mar. 30; Gaz. vol. 212; p. 1683.
- Kern, William P., Chicago, Ill. Polishes for furniture, pianos, automobiles, bar, office, and bank fixtures, &c. No. 107,347; Nov. 23; Gaz. vol. 220; p. 1368.
- Kernchen, John C., Chicago, Ill. Ventilators. No. 103,292; Mar. 30; Gaz. vol. 212; p. 1683.
- Kershner, Benjamin V., Chicago, Ill. Certain named musical instruments and supplies. No. 107,428; Nov. 23; Gaz. vol. 220; p. 1370.
- Keuffel & Esser Company, Hoboken, N. J. Tracing-paper. No. 102,116; Jan. 26; Gaz. vol. 210; p. 1390.
- Keuffel & Esser Company, The, Hoboken, N. J. Graphite drawing-pencils. No. 102,418; Feb. 9; Gaz. vol. 211; p. 635.
- Keystone Film Co., The, New York, N. Y. Moving-picture films. No. 107,849; Dec. 28; Gaz. vol. 221; p. 1448.
- Keystone Hair Insulator Co., Pittsburgh, Pa. Insulating material. Nos. 102,285-6; Feb. 2; Gaz. vol. 211; p. 280.
- Keystone Watch Case Company, The, Philadelphia, Pa. Watches, watchcases, watch-movements, and parts thereof. No. 106,237; Oct. 19; Gaz. vol. 219; p. 918.
- Kidd, Susanna, Minneapolis, Minn. Insecticide. No. 104,733; June 15; Gaz. vol. 215; p. 972.
- Kiddo Shoe Company, St. Paul, Minn. Leather shoes. No. 105,318; July 20; Gaz. vol. 216; p. 1007.
- Kieselguhr Company of America, Los Angeles, Cal. Crude, crushed, broken, cut, or ground kieselguhr. No. 105,542; Aug. 3; Gaz. vol. 217; p. 336.
- Kieselguhr Company of America, Los Angeles, Cal. Catalytic agent for causing the precipitation of sugar impurities. No. 106,169; Oct. 12; Gaz. vol. 219; p. 583.
- Kil-Tone Company, The, Newark, N. J. Plant spraying and powdering preparation. No. 107,073; Nov. 9; Gaz. vol. 220; p. 673.
- Killark Electric Manufacturing Co., St. Louis, Mo. Electrical-conduit fittings. No. 104,618; June 8; Gaz. vol. 215; p. 662.
- Kille, Ellwood S., Camden, N. J. Furniture-polish. No. 106,337; Oct. 19; Gaz. vol. 219; p. 921.
- Kimball, Fred N., Boston, Mass. Manufactured leather. No. 106,338; Oct. 19; Gaz. vol. 219; p. 921.
- Kinak Motion Picture Company, Inc., New York, N. Y. Motion-picture-projecting machines and cameras. No. 104,510; June 1; Gaz. vol. 215; p. 319.
- King & Co., Wm., Philadelphia, Pa. Canned tomatoes, peas, and corn. No. 103,168; Mar. 16; Gaz. vol. 212; p. 1054.
- King, Harry H., Chicago, Ill. Horological indicators. No. 105,033; June 29; Gaz. vol. 215; p. 1496.
- King Medicine Co., Duluth, Minn. Hop plasters. No. 106,868; Nov. 2; Gaz. vol. 220; p. 344.
- King Milling Co., Lowell, Mich. Wheat-flour. No. 102,117; Jan. 26; Gaz. vol. 210; p. 1390.
- King Paint Mfg. Co., New York, N. Y. Prepared paints, varnishes, and enamels. No. 104,511; June 1; Gaz. vol. 215; p. 319.
- King Paint Mfg. Co., New York, N. Y. Prepared paints. No. 104,944; June 29; Gaz. vol. 215; p. 1493.
- King Philip Mills, Fall River, Mass. Cotton piece goods. No. 103,103; Mar. 16; Gaz. vol. 212; p. 1052.
- King Philip Mills, Fall River, Mass. Nainsook. Nos. 105,319-20; July 20; Gaz. vol. 216; p. 1007.
- King, Samuel T., Williamsfield, Ill. Medicated salt for a conditioner for stock. No. 105,214; July 13; Gaz. vol. 216; p. 658.
- Kingdon, Clara A., administratrix. (See Kingdon, Howard A.)
- Kingdon, Howard A., deceased; C. A. Kingdon, administratrix, Buffalo, N. Y. Medicinal compounds for diseases of women. No. 103,954; Apr. 20; Gaz. vol. 213; p. 1114.

- Kinney Company, The, Providence, R. I. Jewelry. No. 105,692; Aug. 10; Gaz. vol. 217; p. 696.
- Kinney, Jesse D., Fort Meade, Fla. Medicines for dropsy. No. 103,588; Apr. 6; Gaz. vol. 213; p. 356.
- Kirk, Geary & Co., Sacramento, Cal. Non-intoxicating tonic beverages and syrups and colors for making same. No. 101,956; Jan. 19; Gaz. vol. 210; p. 1061.
- Kirk-Geary & Co., Sacramento, Cal. Certain named chemicals, medicines, and pharmaceutical preparations. No. 102,118; Jan. 26; Gaz. vol. 210; p. 1390.
- Kirk, Geary & Co., Sacramento, Cal. Certain named foods. No. 102,803; Feb. 23; Gaz. vol. 211; p. 1259.
- Kirk Geary & Co., Sacramento, Cal. Certain named pharmaceutical preparation. No. 104,945; June 29; Gaz. vol. 215; p. 1493.
- Kirke Chemical Company. (See Kirkegaard, George, assignor.)
- Kirkegaard, George, Brooklyn, N. Y., assignor to Kirke Chemical Company Inc. Fertilizers. No. 106,450; Oct. 19; Gaz. vol. 219; p. 925.
- Kirkpatrick, Cyrus B., Newark, N. J. Rubber repairing compounds and adhesive cements. No. 101,855; Jan. 12; Gaz. vol. 210; p. 713.
- Kittanning Brewing Co., The, Kittanning, Pa. Beer, porter, ale. No. 101,783; Jan. 12; Gaz. vol. 210; p. 710.
- Kittle, Charles A., New York, N. Y. Absorbent cotton in certain named forms. No. 104,351; May 25; Gaz. vol. 214; p. 1315.
- Klaas, Max, New York, N. Y. Manicure instruments. No. 104,878; June 22; Gaz. vol. 215; p. 1258.
- Klaas, Max, New York, N. Y. Razors, knives, scissors, shears. Nos. 106,625-6; Oct. 26; Gaz. vol. 219; p. 1229.
- Klar, Adolph, New York, N. Y. Hair-nets. No. 105,021; June 29; Gaz. vol. 215; p. 1496.
- Klar, Adolph, New York, N. Y. Face-powder. No. 107,228; Nov. 16; Gaz. vol. 220; p. 1038.
- Klauber Wangenheim Co., San Diego, Cal. Baking-powder, cream of tartar, gloss-starch, and baking-soda. No. 101,784; Jan. 12; Gaz. vol. 210; p. 710.
- Klauber Wangenheim Co., San Diego, Cal. Baking-powder, baking and washing soda, starch, &c. No. 101,957; Jan. 19; Gaz. vol. 210; p. 1061.
- Klauber Wangenheim Co., San Diego, Cal. Certain named foods. No. 102,419; Feb. 9; Gaz. vol. 211; p. 635.
- Klauber Wangenheim Co., San Diego, Cal. Brooms, scrub-brushes, and feather dusters. No. 102,802; Feb. 23; Gaz. vol. 211; p. 1259.
- Klauber Wangenheim Co., San Diego, Cal. Toilet, printing, &c., paper, envelopes, lead-pencils, &c. No. 102,897; Mar. 2; Gaz. vol. 212; p. 323.
- Klauber Wangenheim Co., San Diego, Cal. Brooms, clothes and scrubbing brushes, and feather dusters. No. 103,002; Mar. 16; Gaz. vol. 212; p. 1049.
- Klauber Wangenheim Co., San Diego, Cal. Certain named foods. No. 104,540; June 1; Gaz. vol. 215; p. 320.
- Klauser, Arthur O., Kansas City, Mo., and Toledo, Ohio. Stimulants for subnormal blood and tissue conditions. No. 107,522; Dec. 7; Gaz. vol. 221; p. 346.
- Kleanall Chemical Company, Hyde Park, Pa. Water softeners and cleansers. No. 104,457; June 1; Gaz. vol. 215; p. 317.
- Kleanol Company, The, Springfield, Mass. Dustless mops and dusters, sanitary household brushes. No. 105,855; Aug. 24; Gaz. vol. 217; p. 1335.
- Kleeno-Glass-Kloth Mfg. Co., St. Louis, Mo. Cloth for polishing glasses. No. 105,981; Sept. 7; Gaz. vol. 218; p. 317.
- Klein, Benjamin F., Cleveland, Ohio. Electric-lighting fixtures. No. 104,475; Dec. 7; Gaz. vol. 221; p. 345.
- Klein, Harry H., New York, N. Y. Certain named furnishings and notions. No. 105,819; Aug. 17; Gaz. vol. 217; p. 1052.
- Klein, William J., Toledo, Ohio. Roach, ant, and bedbug exterminator. No. 102,863; Feb. 23; Gaz. vol. 211; p. 1261.
- Kleinerman, Louis, Trenton, N. J. Cheese. No. 107,786; Dec. 28; Gaz. vol. 221; p. 1446.
- Kline, Mina, Buffalo, N. Y. Face-powder. No. 107,556; Dec. 7; Gaz. vol. 221; p. 347.
- Kloczewski & Crisp, Washington, D. C. Antiseptic mouth-wash. No. 105,916; Aug. 24; Gaz. vol. 217; p. 1337.
- Knickerbocker Mills Company, New York, N. Y. Coffee. No. 102,925; Mar. 2; Gaz. vol. 212; p. 324.
- Knickerbocker Watch Co., New York, N. Y. Watches. No. 103,589; Apr. 6; Gaz. vol. 213; p. 356.
- Knight, William W., Denver, Colo. Medicinal food preparation for the stomach and bowels. No. 105,820; Aug. 17; Gaz. vol. 217; p. 1052.
- Knitted Padding Company, Canton, Mass. Unspun cotton fiber made into sheet or blanket form, reinforced and held compacted by stitching therethrough. No. 104,801; June 15; Gaz. vol. 215; p. 974.
- Knoll & Co., Ludwigshafen-on-the-Rhine, Germany. Remedy employed as a laxative and for treatment of constipation. No. 103,900; Apr. 20; Gaz. vol. 213; p. 1112.
- Knox, Albert W., Asbury Park, N. J. Dentifrices. No. 104,734; June 15; Gaz. vol. 215; p. 972.
- Knox Hat Company, Inc., New York, N. Y. Hats and caps. No. 104,221; May 11; Gaz. vol. 214; p. 677.
- Knox Hat Company, Inc., New York, N. Y. Hats. No. 106,628; Oct. 26; Gaz. vol. 219; p. 1229.
- Koch & Droge Piano Co., Inc., Brooklyn, N. Y. Player-pianos. No. 106,340; Oct. 19; Gaz. vol. 219; p. 921.
- Koebig, Philip W., New York, N. Y. Composite machine-packing. No. 103,663; Apr. 13; Gaz. vol. 213; p. 739.
- Koenigsmark Mill Company, Waterloo, Ill. Self-rising wheat-flour. No. 104,120; May 4; Gaz. vol. 214; p. 339.
- Koenigsmark Mill Company, Waterloo, Ill. Wheat-flour. No. 105,663; Aug. 10; Gaz. vol. 217; p. 695.
- Koenigsmark Mill Company, Waterloo, Ill. Wheat-flour. No. 106,630; Oct. 26; Gaz. vol. 219; p. 1229.
- Kohary, Alex A., Pittsburgh, Pa. Smoking-tobacco. No. 102,715; Feb. 23; Gaz. vol. 211; p. 1256.
- Kohl, Henry J., Collingdale, Pa. Soap. No. 107,350; Nov. 23; Gaz. vol. 220; p. 1368.
- Kohler Co., Kohler, Wis. Cleanser. No. 104,121; May 4; Gaz. vol. 214; p. 339.
- Kohlerman, John N., Baltimore, Md. Restoring color of human hair. No. 106,062; Sept. 21; Gaz. vol. 218; p. 873.
- Kohlman, William B., New Orleans, La. Hosiery. No. 104,069; Apr. 27; Gaz. vol. 213; p. 1443.
- Kohn, Leo, New York, N. Y. Illuminating, lubricating, and fuel oils and greases. No. 105,543; Aug. 3; Gaz. vol. 217; p. 336.
- Kohn, Leo, New York, N. Y. Barley and wheat used for foods, split peas, pepper, and malt. No. 105,734; Aug. 17; Gaz. vol. 217; p. 1049.
- Kohn, Louis, Chicago, Ill. Watchmaker's tool for adjusting balance-wheels. No. 107,689; Dec. 21; Gaz. vol. 221; p. 1035.
- Kohnke, Edward F., New Orleans, La. Wheat-flour. No. 103,901; Apr. 20; Gaz. vol. 213; p. 1112.
- Kohstamm & Co., H., New York, N. Y. Flavoring extracts for foods. No. 103,818; Apr. 13; Gaz. vol. 213; p. 744.
- Kohstamm & Co., H., New York, N. Y. Flavoring extracts. No. 103,856; Apr. 20; Gaz. vol. 213; p. 1111.
- Kol-Isk Kure Kompany, Gettysburg, S. D. Preparation for warding off and treating hog-cholera. No. 107,788; Dec. 28; Gaz. vol. 221; p. 1447.
- Kolb Brothers & Hulsman Company, Pittsburgh, Pa. Hats. No. 105,360; July 20; Gaz. vol. 216; p. 1008.
- Kolb, Charles F., Jr., Philadelphia, Pa. Children's shoes. No. 102,973; Mar. 9; Gaz. vol. 212; p. 685.
- Koloc, Anna, Ford City, Pa. Coffee extract. No. 106,979; Nov. 9; Gaz. vol. 220; p. 670.
- Kommel, Louis M., New York, N. Y. Tea. No. 104,095; Apr. 27; Gaz. vol. 213; p. 1444.
- Kongo Products Company, Pittsburgh, Pa. Hair-tonic. No. 105,486; July 27; Gaz. vol. 216; p. 1314.
- Kono Cereal Co., Chicago, Ill. Cereal coffee or substitute for coffee. No. 104,735; June 15; Gaz. vol. 215; p. 972.
- Konski, Mark M., New York, N. Y. Certain named clothing for men and boys. No. 105,735; Aug. 17; Gaz. vol. 217; p. 1049.
- Kopf Nursery & Realty Co., Inc., New Haven, Conn. Pine-apples. No. 102,567; Feb. 16; Gaz. vol. 211; p. 951.
- Kopitzke, Fredrick, New York, N. Y. Insecticides, roach-powders, rat and mice poisons, &c. No. 103,293; Mar. 30; Gaz. vol. 212; p. 1683.
- Koppe Chemical & Oil Company, Inc., New York, N. Y. Sizing and softeners for textile fabrics. No. 105,464; July 27; Gaz. vol. 216; p. 1314.
- Kops Bros., New York, N. Y. Corsets, corset covers and pads. No. 105,436; July 27; Gaz. vol. 216; p. 1313.
- Kops Bros., New York, N. Y. Corsets. No. 106,451; Oct. 19; Gaz. vol. 219; p. 925.
- Kramer, Harry A., Oil City, Pa. Tooth paste and powder and mouth-wash. No. 107,668; Dec. 14; Gaz. vol. 221; p. 734.
- Krause, Francis A., West Hingham, Mass. Doughnut and cruller flour. No. 103,902; Apr. 20; Gaz. vol. 213; p. 1112.
- Krieg, Archibald A., Charleston, W. Va. Laxative chewing-gum. No. 107,804; Dec. 28; Gaz. vol. 221; p. 1447.
- Krinol Chemical Co., Minneapolis, Minn. Ointment. No. 105,498; July 27; Gaz. vol. 216; p. 1315.
- Kroger Grocery & Baking Co., Cincinnati, Ohio. Baking-powder. No. 102,632; Feb. 16; Gaz. vol. 211; p. 953.
- Królikowski Bros. & Grzymkowski, Chicago, Ill. Soldering liquid. No. 102,420; Feb. 9; Gaz. vol. 211; p. 636.
- Kronengold, Harris, New York, N. Y. Salve for sunburn and skin affections. No. 104,057; Apr. 27; Gaz. vol. 213; p. 1443.
- Kroyer, John M., Stockton, Cal. Air-humidifier for explosive-motors. No. 102,287; Feb. 2; Gaz. vol. 211; p. 230.
- Kruchen & Haas, Hamburg, Germany. Marchpane and marchpane surrogates. No. 106,632; Oct. 26; Gaz. vol. 219; p. 1229.
- Kubicek, Charles E., West Allis, Wis. Chemical compound for cleaning the cylinders of internal-combustion engines. No. 103,003; Mar. 16; Gaz. vol. 212; p. 1049.
- Kuchler, George W., New Rochelle, N. Y. Apples, peaches, berries, vegetables, &c. No. 107,074; Nov. 9; Gaz. vol. 220; p. 673.
- Kuchler & Son, F. X., Brooklyn, N. Y. Candy. No. 104,835; June 22; Gaz. vol. 215; p. 1257.
- Kuczor, Michael P., New York, N. Y. Paprika. No. 103,004; Mar. 16; Gaz. vol. 212; p. 1049.

Alphabetical list of registrants of trade-marks—Continued.

- Kuhlmann & Meyer, California, Mo. Wheat-flour. No. 102,524; Feb. 9; Gaz. vol. 211; p. 639.
- Kunkel, Louis B., St. Louis, Mo. Shoe dressing and polish. No. 102,942; Mar. 2; Gaz. vol. 212; p. 324.
- Kusac Company, The, Dayton, Ohio. Spices, flavoring extracts for foods. No. 106,782; Oct. 26; Gaz. vol. 219; p. 1234.
- L. Cohen Grocer Company, St. Louis, Mo. Canned fruits, vegetables, and fish. No. 103,378; Mar. 30; Gaz. vol. 212; p. 1686.
- L. Doelman Company, Buffalo, N. Y. Vegetable oil extracted from cotton-seed or corn. No. 106,846; Nov. 2; Gaz. vol. 220; p. 343.
- L. Frank & Son Co., Milwaukee, Wis. Meat food product made from cereal and meat. No. 105,585; Aug. 10; Gaz. vol. 217; p. 693.
- L. Sonneborn Sons, Inc., New York, N. Y. Mineral oil used as a medicine and as an ingredient of medicinal preparations. No. 104,653; June 8; Gaz. vol. 215; p. 663.
- L. & A. Baking Company, Sioux Falls, S. D. Bread. No. 104,331; May 18; Gaz. vol. 214; p. 1022.
- L. H. Clark Mfg. Co., Brooklyn, N. Y. Aprons. No. 105,716; Aug. 17; Gaz. vol. 217; p. 1049.
- L. H. Gilmer Co., Philadelphia, Pa. Webbing, woven straps, fabric belting, &c. No. 106,425; Oct. 19; Gaz. vol. 219; p. 924.
- L. & M. Auto Specialty Co., New York, N. Y. Primary and secondary battery solution. No. 104,096; Apr. 27; Gaz. vol. 213; p. 1444.
- L. P. Larson Jr. Company, Chicago, Ill. Chewing-gum. No. 107,789; Dec. 28; Gaz. vol. 221; p. 1447.
- La Croix, John D., Vincennes, Ind. Detergent cleanser. No. 107,265; Nov. 16; Gaz. vol. 220; p. 1039.
- La Manna, Azema & Farnan, New York, N. Y. Sardines. No. 107,351; Nov. 23; Gaz. vol. 220; p. 1368.
- La Poppea Cigar Company, Los Angeles, Cal. Cigars. Nos. 105,961-2; Aug. 31; Gaz. vol. 217; p. 1658.
- La Porte Outing Sulky Company, Laporte, Ind. Baby-carriages and children's sulkies. Nos. 107,352-3; Nov. 23; Gaz. vol. 220; p. 1368.
- La Salle Extension University Incorporated, Chicago, Ill. Magazines published monthly. No. 105,546; Aug. 3; Gaz. vol. 217; p. 336.
- Lackawanna Steel Company, Lackawanna and New York, N. Y. Rolled-steel bars and shapes. No. 104,981; June 29; Gaz. vol. 215; p. 1494.
- Lackland, Frances B., New York, N. Y. Cologne. No. 103,616; Apr. 6; Gaz. vol. 213; p. 357.
- Lakeland Citrus Growers Association, Lakeland, Fla. Citrus fruits. Nos. 104,712-13; June 1; Gaz. vol. 215; p. 319.
- Lakeside Biscuit Company, The, Toledo, Ohio. Certain named biscuit. No. 107,119; Jan. 26; Gaz. vol. 210; p. 1390.
- Lalance & Grosjean Mfg. Co., New York, N. Y. Enamel, steel, and tin ware. No. 105,544; Aug. 3; Gaz. vol. 217; p. 336.
- Lalance & Grosjean Mfg. Co., New York, N. Y. Agate and enamel ware. No. 105,945; Aug. 3; Gaz. vol. 217; p. 336.
- Lalance & Grosjean Mfg. Co., New York, N. Y. Enamel, steel, and tin ware. No. 106,111; Oct. 12; Gaz. vol. 219; p. 581.
- Lamb & Ritchie Co., Cambridge, Mass. Copper and galvanized-iron sheet-metal pipe and elbows. No. 106,783; Oct. 26; Gaz. vol. 219; p. 1234.
- Lambertville Rubber Co., Lambertville, N. J. Rubber balls. No. 105,598; Aug. 10; Gaz. vol. 217; p. 693.
- Lambertville Rubber Co., Lambertville, N. J. Rubber balls. Nos. 105,664-5; Aug. 10; Gaz. vol. 217; p. 695.
- Lamping, Cora, Detroit, Mich. Cleansing and scouring powder. No. 102,568; Feb. 16; Gaz. vol. 211; p. 951.
- Lample, Fanny, Yonkers, N. Y. Preparation for treatment of certain named ailments. No. 103,352; Mar. 30; Gaz. vol. 212; p. 1685.
- Lancaster Mills, Clinton, Mass. Gingham. No. 103,819; Apr. 13; Gaz. vol. 213; p. 744.
- Lancaster Mills, Clinton, Mass. Cotton piece and dress goods. No. 107,266; Nov. 16; Gaz. vol. 220; p. 1039.
- Lancaster Mills, Clinton, Mass. Gingham. No. 107,267; Nov. 16; Gaz. vol. 220; p. 1039.
- Landau, Goldberg & Levy, New York, N. Y. Men's outer clothes and overcoats. No. 105,589; Aug. 10; Gaz. vol. 217; p. 693.
- Landau-Newman Company, C. H., Cleveland, Ohio. Certain named articles made of or plated with precious metal. No. 105,666; Aug. 10; Gaz. vol. 217; p. 695.
- Landers, Frary & Clark, New Britain, Conn. Certain named knives and scissors and shears. No. 102,120; Jan. 26; Gaz. vol. 210; p. 1390.
- Landers, Frary & Clark, New Britain, Conn. Certain named electrically-heated vessels. No. 103,203; Mar. 23; Gaz. vol. 212; p. 1353.
- Landers, Frary & Clark, New Britain, Conn. Scissors, shears, and certain named knives having steel blades. No. 105,236; July 13; Gaz. vol. 216; p. 659.
- Landers, Frary & Clark, New Britain, Conn. Scissors and shears. No. 105,600; Aug. 10; Gaz. vol. 217; p. 693.
- Landers, Frary & Clark, New Britain, Conn. Corn grinders and mills and coffee-mills. No. 106,112; Oct. 12; Gaz. vol. 219; p. 581.
- Landers, Frary & Clark, New Britain, Conn. Vacuum-bottles, alcohol-flasks, and tea-caddies. No. 106,784; Oct. 26; Gaz. vol. 219; p. 1234.
- Landesman, Max, New York, N. Y. Antiseptic solution. No. 105,487; July 27; Gaz. vol. 216; p. 1314.
- Landon & Co., Lewis C., South Bend, Ind. Medicated bath-tablets. No. 102,840; Feb. 23; Gaz. vol. 211; p. 1260.
- Landreth, Clarence P., Philadelphia, Pa. Fabric belting. No. 106,452; Oct. 19; Gaz. vol. 219; p. 925.
- Lane, Frederick W., Chico, Cal. Drafting instrument. No. 106,453; Oct. 19; Gaz. vol. 219; p. 925.
- Lang, Anton, Malden, Mass. Compound for the treatment of rheumatism. No. 103,169; Mar. 16; Gaz. vol. 212; p. 1054.
- Lang, Juliet M., St. Paul, Minn. Foot-tonic. No. 106,980; Nov. 9; Gaz. vol. 220; p. 670.
- Lang, Sigmund J., St. Louis, Mo. Whisky. No. 101,785; Jan. 12; Gaz. vol. 210; p. 710.
- Lang, Sigmund J., St. Louis, Mo. Whisky. No. 102,121; Jan. 26; Gaz. vol. 210; p. 1390.
- Langan, John, Yonkers, N. Y. Liquid and salve for skin diseases. No. 106,160; Oct. 12; Gaz. vol. 219; p. 583.
- Langdon, Clyde T., Piqua, Ohio. Corn-plasters. No. 102,288; Feb. 2; Gaz. vol. 211; p. 280.
- Langford, William S., Baltimore, Md. Fastener for machinery-belt. No. 106,633; Oct. 26; Gaz. vol. 219; p. 1229.
- Langley & Michaels Co., San Francisco, Cal. Certain named pharmaceutical preparations. No. 104,424; May 25; Gaz. vol. 214; p. 1317.
- Langrall, Leroy M., Baltimore, Md. Canned vegetables and fruits. No. 106,342; Oct. 19; Gaz. vol. 219; p. 921.
- Langstadter, Aaron, New York, N. Y. Certain named paper and stationery and supplies. No. 106,981; Nov. 9; Gaz. vol. 220; p. 671.
- Lanz, Firm of Heinrich, Mannheim, Germany. Cream-separators. No. 104,770; June 15; Gaz. vol. 215; p. 973.
- Lanz, Firm of Heinrich, Mannheim, Germany. Certain named cutlery, machinery, and appliances for making and working butter. No. 104,771; June 15; Gaz. vol. 215; p. 973.
- Larabee Flour Mills Company, The, Hutchinson, Kans. Wheat-flour. No. 103,756; Apr. 13; Gaz. vol. 213; p. 742.
- Lard, S. S., Houston, Tex. Butter. No. 104,458; June 1; Gaz. vol. 215; p. 317.
- Larrowe Milling Co., The, Cobocott, N. Y., and Detroit, Mich. Mixed feed for dairy-cattle. No. 103,903; Apr. 20; Gaz. vol. 213; p. 1112.
- Lasalle & Koch Co., The, Toledo, Ohio. Gloves. No. 106,634; Oct. 26; Gaz. vol. 219; p. 1229.
- Lashcen Company, Philadelphia, Pa. Cosmetic for effecting the growth of eyelashes and eyebrows. No. 104,459; June 1; Gaz. vol. 215; p. 317.
- Lasker & Son, M., Galveston, Tex. Wheat-flour. No. 105,362; July 20; Gaz. vol. 216; p. 1008.
- Lastlong Underwear Co., Oswego, N. Y. Hosiery, sweaters, and knitted underwear. No. 107,181; Nov. 16; Gaz. vol. 220; p. 1036.
- Latimer Chemical Company, doing business as Latimer Cider & Vinegar Co., Grand Junction, Colo. Vinegar. No. 102,804; Feb. 23; Gaz. vol. 211; p. 1259.
- Latin-American Coffee Co., Gulfport, Miss. Coffee and chicory. No. 105,547; Aug. 3; Gaz. vol. 217; p. 336.
- Latsch & Sullivan, Memphis, Tenn. Certain non-alcoholic beverages and bottled drink-flavoring syrup. No. 102,122; Jan. 26; Gaz. vol. 210; p. 1390.
- Latta, David S., Batesville, Pa. Compound for destroying scale on trees. No. 102,943; Mar. 2; Gaz. vol. 212; p. 324.
- Lattarulo, Donato, New York, N. Y. Olive-oil. No. 107,790; Dec. 28; Gaz. vol. 221; p. 1447.
- Laubhoff, Henry A., Detroit, Mich. Cereal breakfast food. No. 107,669; Dec. 14; Gaz. vol. 221; p. 734.
- Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 102,123; Jan. 26; Gaz. vol. 210; p. 1390.
- Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 103,432; Apr. 6; Gaz. vol. 213; p. 352.
- Laux, Mathias J., St. Louis, Mo. Chocolate-flavored popcorn. No. 106,050; Sept. 21; Gaz. vol. 218; p. 873.
- Lavoris Chemical Company, Minneapolis, Minn. Dentifrice and tooth-cleaning compound. No. 105,736; Aug. 17; Gaz. vol. 217; p. 1049.
- Law, Russell, assignor to Vecto Chemical Co. Inc., New York, N. Y. Medicated salve for nasal affections. No. 103,820; Apr. 13; Gaz. vol. 213; p. 744.
- Lawlor, Marie, New York, N. Y. Hair tonics and dressings, dandruff-lotions. No. 101,643; Jan. 5; Gaz. vol. 210; p. 394.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind., and Boston, Mass. Wheat-flour. No. 106,002; Sept. 14; Gaz. vol. 218; p. 599.
- Lax & Strauss, New York, N. Y. Children's sleeping-garments. No. 103,870; Apr. 20; Gaz. vol. 213; p. 1111.
- Laxago Bitters Co., Detroit, Mich. Coughs, colds, and catarrh. No. 102,974; Mar. 9; Gaz. vol. 212; p. 685.
- Laxton, John W. R., Lynn, Mass. Medicines for certain named disorders. No. 106,635; Oct. 26; Gaz. vol. 219; p. 1230.
- Layman, Waldo A., Johnstown, Pa. Shoe-polish. No. 102,975; Mar. 9; Gaz. vol. 212; p. 685.

- Layton & Owens, Bridgeville, Del. Cantaloups. No. 107,075; Nov. 9; Gaz. vol. 220; p. 673.
- Layton Pure Food Company, East St. Louis, Ill. Baklog powder and soda. No. 102,976; Mar. 9; Gaz. vol. 212; p. 685.
- LBO Company, Port Richmond, N. Y. Certain abrasive, detergent, and polishing materials. No. 106,869; Nov. 2; Gaz. vol. 220; p. 344.
- LBO Company, Port Richmond, N. Y. Stain-remover, gun-cleaner for removal of residuum. No. 106,870; Nov. 2; Gaz. vol. 220; p. 344.
- Le Bow, Challie M., Kansas City, Mo. Yeast. No. 107,354; Nov. 23; Gaz. vol. 220; p. 1368.
- Leader Evaporator Co., The, Burlington, Vt. Iron and sugaring-off arches. No. 105,215; July 13; Gaz. vol. 216; p. 658.
- Learoyd Brothers & Company Limited, Huddersfield, England. Woolen piece goods. No. 106,871; Nov. 2; Gaz. vol. 220; p. 344.
- Leavitt, Abraham, Montreal, Canada. Hair-invigorator and dandruff-killer. No. 103,066; Mar. 16; Gaz. vol. 212; p. 1051.
- Leavitt, Thomas, Boston, Mass. Printed periodical publications. No. 106,343; Oct. 19; Gaz. vol. 219; p. 921.
- Lebanon Wholesale Grocer Co., Lebanon, Mo. Canned vegetables and fruits, flavoring extracts, coffee, &c. No. 102,805; Feb. 23; Gaz. vol. 211; p. 1259.
- Leber & Son, L., Newark, N. J. Gold alloy. No. 105,300; July 13; Gaz. vol. 216; p. 660.
- Lederer, Irving R., Providence, R. I. Soldering-flux. No. 107,355; Nov. 23; Gaz. vol. 220; p. 1368.
- Lee Tire & Rubber Co., Whitemarsh township, Montgomery county, Pa. Rubber tires. No. 101,856; Jan. 12; Gaz. vol. 210; p. 713.
- Lee Tire & Rubber Co., Whitemarsh township, Montgomery county, Pa. Certain named medical and surgical appliances. No. 104,879; June 22; Gaz. vol. 215; p. 1258.
- Lee-Warren Milling Company, The, Salina, Kans. Wheat-flour. No. 105,516; Aug. 3; Gaz. vol. 217; p. 335.
- Lee-Warren Milling Company, The, Salina, Kans. Wheat-flour. No. 107,617; Dec. 14; Gaz. vol. 221; p. 732.
- Leech, E., Mosman, near Sydney, New South Wales, Australia. Insecticide. No. 104,736; June 15; Gaz. vol. 215; p. 972.
- Leeming, Thomas L., New York, N. Y. Non-poisonous germicides for internal administration. No. 106,345; Oct. 19; Gaz. vol. 219; p. 921.
- Lees Mfg. Co., Westport, Conn. Twines and cords, braided or twisted. No. 103,104; Mar. 16; Gaz. vol. 212; p. 1052.
- Lees Mfg. Co., Westport, Conn. Threads and yarns. No. 103,105; Mar. 16; Gaz. vol. 212; p. 1052.
- Leffingwell Rancho, Inc., The, near Whittier, Cal. Oranges, lemons, and walnuts. No. 102,525; Feb. 9; Gaz. vol. 211; p. 639.
- Leffingwell Rancho, Inc., The, near Whittier, Cal. Oranges and lemons. No. 102,526; Feb. 9; Gaz. vol. 211; p. 639.
- Legavre, Jules E., Paris, France. Certain named articles composed of plastic material. No. 104,514; June 1; Gaz. vol. 215; p. 319.
- Lehrburger & Asher, Boston, Mass. Fur trimmings, edgings, and ornaments. No. 102,527; Feb. 9; Gaz. vol. 211; p. 639.
- Leighton, Eugene I., Fort Dodge, Iowa. Ointment. No. 104,982; June 29; Gaz. vol. 215; p. 1494.
- Lekas and Drivas, New York, N. Y. Coffee. No. 106,636; Oct. 26; Gaz. vol. 219; p. 1230.
- Lekas and Drivas, New York, N. Y. Honey. No. 106,637; Oct. 26; Gaz. vol. 219; p. 1230.
- Lenox Supply Company, Sparkill, N. Y. Mineral water. No. 104,097; Apr. 27; Gaz. vol. 213; p. 1444.
- Leon, Philip, New York, N. Y. Candy. No. 101,959; Jan. 19; Gaz. vol. 210; p. 1061.
- Leonard Watch Company, Boston, Mass. Watches and clocks. No. 103,353; Mar. 30; Gaz. vol. 212; p. 1685.
- Lesella Remedies Company, Louisville, Ky. Salves, medicinal tonics, laxatives, &c. No. 104,737; June 15; Gaz. vol. 215; p. 972.
- Lesella Remedies Company, Louisville, Ky. Salves, medicinal tonics, laxatives, &c. No. 106,239; Oct. 19; Gaz. vol. 219; p. 918.
- Leshner, Whitman & Co., Inc., Rye and New York, N. Y. Worsted linings. No. 101,786; Jan. 12; Gaz. vol. 210; p. 710.
- Leslie Company, The, Lyndhurst, N. J. Coupling-nuts. No. 106,638; Oct. 26; Gaz. vol. 219; p. 1230.
- Lester Piano Company, Philadelphia, Pa. Automatic pianos. No. 104,738; June 15; Gaz. vol. 215; p. 972.
- Levett, Victoria R., Pelham Manor, N. Y. Medicinal preparation for diseases of the stomach. No. 102,289; Feb. 2; Gaz. vol. 211; p. 280.
- Levin & Son, Meyer, New York, N. Y. Dress, negligée, work, and flannel shirts. No. 106,347; Oct. 19; Gaz. vol. 219; p. 922.
- Levy, Alfred C., New York, N. Y. Certain named chiropodical appliances. No. 105,301; July 13; Gaz. vol. 216; p. 660.
- Levy, Charles K., Minneapolis, Minn. Disinfectant liquid. No. 105,821; Aug. 17; Gaz. vol. 217; p. 1032.
- Levy, Firm of Ernest & Herman, New York, N. Y. Silk, velvet, satin, and fiber ribbons. No. 105,066; July 6; Gaz. vol. 216; p. 322.
- Levy-Roth G. m. b. H., Berlin, Germany. Photographic cameras. No. 107,076; Nov. 9; Gaz. vol. 220; p. 673.
- Lewis Brothers Company, New York, N. Y. Work-shirts. No. 106,785; Oct. 26; Gaz. vol. 219; p. 1234.
- Lewis, Frederick H., Stamford, Conn. Pianos and player-pianos. No. 103,431; Apr. 6; Gaz. vol. 213; p. 351.
- Lewis Manufacturing Company, Walpole, Mass. Absorbent cotton and gauze bandages, &c. No. 103,242; Mar. 23; Gaz. vol. 212; p. 1354.
- Lewis, Samuel, New York, N. Y. Cloth for scrub purposes. No. 101,857; Jan. 12; Gaz. vol. 210; p. 713.
- Lewiston Milling Co., Ltd., Lewiston, Idaho. Wheat-flour. No. 102,528; Feb. 9; Gaz. vol. 211; p. 639.
- Lewiston Milling Co., Ltd., Lewiston, Idaho. Wheat-flour. No. 102,569; Feb. 16; Gaz. vol. 211; p. 951.
- Lexington Flouring Mills, Lexington, Mo. Wheat-flour. No. 103,433; Apr. 6; Gaz. vol. 213; p. 352.
- Lexington Flouring Mills, Lexington, Mo. Wheat-flour. No. 105,302; July 13; Gaz. vol. 216; p. 660.
- Libby, McNeill & Libby, Chicago, Ill. Canned salmon. No. 106,872; Nov. 2; Gaz. vol. 220; p. 344.
- Libby, McNeill & Libby, Chicago, Ill. Sliced dried beef. No. 107,430; Nov. 23; Gaz. vol. 220; p. 1370.
- Lich, Robert, Sutton, Nebr. Medicinal preparation for diseases of poultry. No. 104,946; June 29; Gaz. vol. 215; p. 1493.
- Liebethal Bros. & Co., Cleveland, Ohio. Candy. No. 105,792; Aug. 17; Gaz. vol. 217; p. 1051.
- Lieberman, Pauline, New York, N. Y. Ladies' hats. No. 104,460; June 1; Gaz. vol. 215; p. 317.
- Liebig's Extract of Meat Company, Limited, London, England. Fluid beefs, meat extract, bouillon, &c., cubes. No. 102,421; Feb. 9; Gaz. vol. 211; p. 636.
- Liebovitz and Sons, S., New York, N. Y. Shirts, night-shirts, pajamas, and underwear. No. 106,873; Nov. 2; Gaz. vol. 220; p. 344.
- Life's Health Food Co., The, Tacoma, Wash. Blended flour of wheat, rye, and hemp-seed. No. 102,126; Jan. 26; Gaz. vol. 210; p. 1390.
- Life Saving Devices Co., Chicago, Ill. Resuscitating appliances. No. 106,639; Oct. 26; Gaz. vol. 219; p. 1230.
- Lighting Studios Company, New York, N. Y. Glass lamp shades and globes. No. 105,067; July 6; Gaz. vol. 216; p. 322.
- Lilly, Dungan & Company, Baltimore, Md. Cigars, little cigars, cigarettes, and tobacco. No. 105,116; July 6; Gaz. vol. 216; p. 323.
- Lilly, Dungan & Company, Baltimore, Md. Cigars, little cigars, cigarettes, and tobacco. No. 105,164; July 6; Gaz. vol. 216; p. 324.
- Limol Chemical Co., The, Alexandria, Va. Antiseptic powder. No. 105,982; Sept. 7; Gaz. vol. 218; p. 317.
- Lincoln Produce & Refrigerating Co., Twin Falls, Idaho. Butter. No. 106,875; Nov. 2; Gaz. vol. 220; p. 344.
- Lind, David H., New York, N. Y. Candle-holders and sconces. No. 104,058; Apr. 27; Gaz. vol. 213; p. 1443.
- Lind, William J., Denver, Colo. Salve. No. 106,240; Oct. 19; Gaz. vol. 219; p. 918.
- Lindberg, G., Tacoma, Wash. Coffee. No. 104,541; June 1; Gaz. vol. 215; p. 320.
- Lindberg, G., Tacoma, Wash. Canned fruits and vegetables and coffee. No. 105,601; Aug. 10; Gaz. vol. 217; p. 693.
- Lindenberg Packing Co., Seattle, Wash. Canned salmon. No. 103,785; Apr. 13; Gaz. vol. 213; p. 743.
- Lindenthal & Sons, H. M., Chicago, Ill. Men's coats, vests, trousers, and overcoats. No. 105,548; Aug. 3; Gaz. vol. 217; p. 336.
- Lindlar, Matilda W., Chicago, Ill. Abrasive polishing-cloths. No. 105,983; Sept. 7; Gaz. vol. 218; p. 317.
- Lindquist Cracker Co., Denver, Colo. Crackers. No. 104,563; June 1; Gaz. vol. 215; p. 321.
- Lineatime Manufacturing Co., Inc., Rochester, N. Y. Copy-holders for type-writers. No. 105,822; Aug. 17; Gaz. vol. 217; p. 1052.
- Linihan, John E., Chicago, Ill. Ginger snap or wafers. No. 107,077; Nov. 9; Gaz. vol. 220; p. 673.
- Link-Belt Company, Chicago, Ill. Cast-metal machinery-wheels. No. 107,494; Dec. 7; Gaz. vol. 221; p. 346.
- Lipowicz, Stanislaus, Buffalo, N. Y. Certain named foods. No. 107,078; Nov. 9; Gaz. vol. 220; p. 673.
- Lipphardt, Louis, Martins Ferry, Ohio. Enameled gas heating-stoves. No. 103,294; Mar. 30; Gaz. vol. 212; p. 1683.
- Lippincott & Co., Philadelphia and Altoona, Pa. Certain named foods. Nos. 103,434-7; Apr. 6; Gaz. vol. 213; p. 352.
- Lippincott & Co., Philadelphia and Altoona, Pa. Tea, coffee, spices, cocoa, &c. No. 105,984; Sept. 7; Gaz. vol. 218; p. 317.
- Litosilo Co. of America, Incorporated, The, Easton, Pa. Magnesium-chlorid flooring material. No. 103,590; Apr. 6; Gaz. vol. 213; p. 356.
- Little Crow Milling Co., Warsaw, Ind. Wheat, &c., flours, cornmeal, and feeds. No. 104,836; June 22; Gaz. vol. 215; p. 1257.
- Liver Square Company, The, Cotter, Ark. Laxative or purgative. No. 101,961; Jan. 19; Gaz. vol. 210; p. 1061.
- Livermore, Alfred S., Chicago, Ill. Fruit-mince-meat preparations. No. 105,165; July 6; Gaz. vol. 216; p. 324.

Alphabetical list of registrants of trade-marks—Continued.

- Lockwood Amusement Company, Kansas City, Mo. Roller-coasters. No. 104,983; June 29; Gaz. vol. 215; p. 1494.
- Locomotive Finished Material Co., The, Atchison, Kans. Certain named finished locomotive-engine parts. Nos. 105,602-3; Aug. 10; Gaz. vol. 217; p. 694.
- Loetscher-Ryan Manufacturing Company, Dubuque, Iowa. Refrigerators. No. 105,393; July 20; Gaz. vol. 216; p. 1009.
- Loftus, Michael, Chicago, Ill. Liniment for rheumatism, lumbago, and dandruff. No. 105,437; July 27; Gaz. vol. 216; p. 1313.
- Loheide Manufacturing Company, St. Louis, Mo. Popcorn and candy. No. 102,841; Feb. 23; Gaz. vol. 211; p. 1260.
- Loheide Manufacturing Company, St. Louis, Mo. Candy. No. 105,068; July 6; Gaz. vol. 216; p. 322.
- Loheide Manufacturing Company, St. Louis, Mo. Humidifiers used in cigar show-cases. No. 106,161; Oct. 12; Gaz. vol. 219; p. 583.
- London Blend Cigarette Co., The, New York, N. Y. Cigarettes. No. 103,618; Apr. 6; Gaz. vol. 213; p. 357.
- London Blend Cigarette Company, The, Inc., New York, N. Y. Cigarettes. No. 107,850; Dec. 28; Gaz. vol. 221; p. 1448.
- Loose-Wiles Biscuit Company, Boston, Mass. Biscuit. No. 102,422; Feb. 9; Gaz. vol. 211; p. 636.
- Loose-Wiles Company, Boston, Mass. Chocolates and candy. Nos. 102,529-30; Feb. 9; Gaz. vol. 211; p. 639.
- Loose-Wiles Biscuit Company, Boston, Mass. Biscuit. No. 103,904; Apr. 20; Gaz. vol. 213; p. 1112.
- Loose-Wiles Biscuit Company, Boston, Mass. Biscuit. No. 104,391; May 25; Gaz. vol. 214; p. 1316.
- Loose-Wiles Biscuit Co., Boston, Mass. Biscuit. No. 104,621; June 8; Gaz. vol. 215; p. 662.
- Loose-Wiles Biscuit Company, Boston, Mass. Biscuit. No. 105,070; July 6; Gaz. vol. 216; p. 322.
- Loose-Wiles Biscuit Company, Boston, Mass. Biscuit. No. 107,356; Nov. 23; Gaz. vol. 220; p. 1368.
- Loose-Wiles Biscuit Company, Chicago, Ill. Ginger-snaps. No. 102,531; Feb. 9; Gaz. vol. 211; p. 639.
- Loose-Wiles Biscuit Company, Chicago, Ill. Cakes and crackers. No. 104,620; June 8; Gaz. vol. 215; p. 662.
- Loose-Wiles Biscuit Company, New York, N. Y. Cakes. No. 103,757; Apr. 13; Gaz. vol. 213; p. 742.
- Loose-Wiles Biscuit Company, New York, N. Y. Cakes called snaps. No. 104,619; June 8; Gaz. vol. 215; p. 662.
- Loose-Wiles Biscuit Company, Kansas City, Mo. Stick-candy. No. 104,332; May 18; Gaz. vol. 214; p. 1022.
- Loose-Wiles Biscuit Company, Kansas City, Mo. Candy dgs. No. 105,069; July 6; Gaz. vol. 216; p. 322.
- Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Certain named materials and cotton piece goods. No. 101,858; Jan. 12; Gaz. vol. 210; p. 713.
- Lorraine Manufacturing Company, Saylesville, R. I., and New York, N. Y. Cotton piece goods. No. 105,237; July 13; Gaz. vol. 216; p. 659.
- Los Angeles Soap Company, Los Angeles, Cal. Soap. No. 101,787; Jan. 12; Gaz. vol. 210; p. 710.
- Los Angeles Soap Company, Los Angeles, Cal. Washing-powder. No. 105,942; Aug. 31; Gaz. vol. 217; p. 1657.
- Los Angeles Soap Company, Los Angeles, Cal. Soap. No. 105,943; Aug. 31; Gaz. vol. 217; p. 1657.
- Los Angeles Soap Company, Los Angeles, Cal. Washing-powder. No. 106,454; Oct. 19; Gaz. vol. 219; p. 925.
- Louis Auerbach, Inc., New York, N. Y. Neckties, neckscarfs, and jabots. No. 104,698; June 15; Gaz. vol. 215; p. 971.
- Louisville Milling Company, Louisville, Ky. Wheat-flour. No. 102,570; Feb. 16; Gaz. vol. 211; p. 951.
- Loveland & Sons, Wichita, Kans. Chick feed. No. 105,856; Aug. 24; Gaz. vol. 217; p. 1335.
- Lovell & Covell Company, Boston, Mass. Candies. No. 106,876; Nov. 2; Gaz. vol. 220; p. 344.
- Lovibond, Catharine, Lake, near Salisbury, England. Woolen piece goods. No. 107,269; Nov. 16; Gaz. vol. 220; p. 1039.
- Low Cost Company, Chicago, Ill. Certain named paper and stationery supplies. No. 104,059; Apr. 27; Gaz. vol. 213; p. 1443.
- Lowe Manufacturing Company, The, Enderlin, N. D. Hoof-nippers. No. 104,542; June 1; Gaz. vol. 215; p. 320.
- Lowe Mfg. Co., The, Huntsville, Ala. Cotton piece goods. No. 107,759; Dec. 28; Gaz. vol. 221; p. 1446.
- Lowry Coffee Co., The, Philadelphia, Pa. Coffee. No. 102,571; Feb. 16; Gaz. vol. 211; p. 951.
- Lowry Coffee Co., Philadelphia, Pa. Tea. No. 103,905; Apr. 20; Gaz. vol. 213; p. 1112.
- Luckett, Alfred M., Fort Worth, Tex. Non-alcoholic fruit punch in concentrated syrup form. Nos. 106,162-3; Oct. 12; Gaz. vol. 219; p. 583.
- Ludlow-Robson Co., The, Toledo, Ohio. Prepared mustard and fruit-flavored dessert-powders. No. 102,423; Feb. 9; Gaz. vol. 211; p. 636.
- Ludwig Baumann & Comp'y, New York, N. Y. Certain named furniture and upholstery. No. 102,731; Feb. 23; Gaz. vol. 211; p. 1257.
- Ludwig Hupfeld Aktiengesellschaft Böhlitz-Ehrenberg, near Leipzig, Germany. Certain musical instruments and their parts, &c. No. 103,665; Apr. 13; Gaz. vol. 213; p. 740.
- Luebert, August G., Philadelphia, Pa. Remedy for headache, neuralgia, toothache, &c. No. 102,130; Jan. 26; Gaz. vol. 216; p. 1390.
- Luminous Unit Company, St. Louis, Mo. Fixtures for electric lights. No. 106,074; Oct. 5; Gaz. vol. 219; p. 267.
- Luna-Life Company of America, The. (See Reynolds, Lewis G., assignor.)
- Lund, Ulrik R. T., North Catasaugua, Pa. Ribbons. No. 102,131; Jan. 26; Gaz. vol. 216; p. 1390.
- Luneschloss, Alex., New York, N. Y. Medicinal preparation composed of olive-oil, wine, and iron. No. 105,857; Aug. 24; Gaz. vol. 217; p. 1335.
- Luneschloss, Alex., New York, N. Y. Olive-oil. No. 107,079; Nov. 9; Gaz. vol. 220; p. 673.
- Lunn & Sweet Shoe Company, Auburn, Me. Leather shoes. No. 101,712; Jan. 5; Gaz. vol. 210; p. 396.
- Luse Bros. Chemical Co., Muskogee, Okla. Certain named medicines and remedies for certain diseases. No. 103,955; Apr. 20; Gaz. vol. 213; p. 1114.
- Luttenberger, Jacob, Easton, Pa. Remedy for the eyes. No. 106,164; Oct. 12; Gaz. vol. 219; p. 583.
- Luxel Company, Inc., The, Montpelier, Vt. Remedy to prevent abortion in cows. No. 104,392; May 25; Gaz. vol. 214; p. 1316.
- Luyties Brothers, New York, N. Y. Grape-juice. No. 106,786; Oct. 26; Gaz. vol. 219; p. 1234.
- Luyties Pharmacy Company, St. Louis, Mo. Uterine wafer for cervical inflammations, vaginitis, vulvitis, &c. No. 106,051; Sept. 21; Gaz. vol. 218; p. 873.
- Lyle, Madeleine S. C. V., San Francisco, Cal. Flesh-reducer. No. 106,052; Sept. 21; Gaz. vol. 218; p. 873.
- Lynat, Ltd., London, England, and Philadelphia, Pa. Adjustable hat-linings. No. 104,543; June 1; Gaz. vol. 215; p. 320.
- Lyon & Healy, Chicago, Ill. Strings for musical instruments. No. 103,243; Mar. 23; Gaz. vol. 212; p. 1354.
- Lyon & Healy, Chicago, Ill. Mandolins and guitars. No. 105,823; Aug. 17; Gaz. vol. 217; p. 1052.
- Lyon Tire and Rubber Co., Chicago, Ill. Pneumatic tires and parts thereof, tire-casings, and supplies. No. 104,222; May 11; Gaz. vol. 214; p. 678.
- Lyric Publishing Co., Philadelphia, Pa. Piano-polish. No. 101,644; Jan. 5; Gaz. vol. 210; p. 394.
- M. Born & Company, Chicago, Ill. Coats, vests, and trousers. No. 106,554; Oct. 26; Gaz. vol. 219; p. 1227.
- M. Hemmway & Sons Silk Co., Watertown, Conn. Dental floss. No. 106,327; Oct. 19; Gaz. vol. 219; p. 921.
- M. Hemmway & Sons Silk Company, Watertown, Conn. Sewing and embroidery silk and silk floss. No. 102,685; Feb. 23; Gaz. vol. 211; p. 1255.
- M. Rumely Company, Laporte, Ind. Motor-plows and plow-drawing tractors. No. 101,794; Jan. 12; Gaz. vol. 210; p. 711.
- M. C. Peters Mill Co., Omaha, Nebr. Mule feed. No. 107,191; Nov. 16; Gaz. vol. 220; p. 1036.
- M. C. Peters Mill Co., Omaha, Nebr. Live-stock feed. No. 107,192; Nov. 16; Gaz. vol. 220; p. 1036.
- M. D. Knowlton Company, Rochester, N. Y. Staying-machines. No. 106,627; Oct. 26; Gaz. vol. 219; p. 1229.
- M. E. Smith & Co., Inc., Omaha, Nebr. Corsets. No. 102,192; Jan. 26; Gaz. vol. 210; p. 1392.
- M. E. Smith & Co., Inc., Omaha, Nebr. Certain named clothing for women and children. No. 105,471; July 27; Gaz. vol. 216; p. 1314.
- M & M Company, The, Cleveland, Ohio. Tire-casings and inner tubes. No. 105,117; July 6; Gaz. vol. 216; p. 323.
- M. M. Graves Co., Inc., Houston, Tex. Bagging. No. 107,610; Dec. 14; Gaz. vol. 221; p. 732.
- M. M. V. Co., Huntsville, Ala. Cotton piece goods. No. 104,837; June 22; Gaz. vol. 215; p. 1257.
- M. N. Cartier and Sons Company, Providence, R. I. Roofing compounds. No. 107,511; Dec. 7; Gaz. vol. 221; p. 346.
- M. and N. Co., Pittsburgh, Pa. Skin-lotion for chapped hands, face, and lips, sunburn, &c. No. 104,165; May 4; Gaz. vol. 214; p. 340.
- M. P. Publishing Co., The, Brooklyn, N. Y. Monthly magazine. No. 107,080; Nov. 9; Gaz. vol. 220; p. 673.
- MacAndrews and Forbes Company, Camden, N. J., and New York, N. Y. Fire-extinguishing compositions and ingredients. No. 103,786; Apr. 13; Gaz. vol. 213; p. 743.
- MacAndrews and Forbes Company, Camden, N. J., and New York, N. Y. Dry, paste, and ready-mixed paints. No. 105,824; Aug. 17; Gaz. vol. 217; p. 1052.
- MacDougall, Alice F., New York, N. Y. Coffees, cocoas, and teas. No. 107,761; Dec. 28; Gaz. vol. 221; p. 1446.
- MacFarland, William J., Rochester, N. Y. Boots, shoes, and slippers. No. 101,859; Jan. 12; Gaz. vol. 210; p. 713.
- MacFarland, William J., Rochester, N. Y. Boots, shoes, and slippers. No. 105,363; July 20; Gaz. vol. 216; p. 1008.
- MacGillvray, Elwy, Tacoma, Wash. Face-powder, massage and cold creams, rouge, and hair-restorer. No. 103,267; Mar. 23; Gaz. vol. 212; p. 1355.
- Macaluso, Emanuele, Boston, Mass. Disinfectant and antiseptic for certain named diseases. No. 102,290; Feb. 2; Gaz. vol. 211; p. 280.

- Macbeth-Evans Glass Company, Pittsburgh, Pa. Lamp glasses and globes. Nos. 106,165-6; Oct. 12; Gaz. vol. 219; p. 583.
- Macdonald, Florence R., assignor to Bonwit, Teller & Co., New York, N. Y. Corsets. No. 107,760; Dec. 28; Gaz. vol. 221; p. 1446.
- Macdonald, John N., Wethersfield, Conn. Tools for opening and closing the attaching-hooks of non-skid tire-chains, &c. No. 104,818; June 15; Gaz. vol. 215; p. 974.
- Macdonald & Muir, Leith, Scotland. Blended Scotch whisky. No. 106,456; Oct. 19; Gaz. vol. 219; p. 925.
- Macfadden, Bernarr, Chicago, Ill. Food consisting of grains, nuts, and fruit. No. 104,258; May 11; Gaz. vol. 214; p. 679.
- Mack Manufacturing Company, New Cumberland, W. Va. Bricks and blocks. No. 102,132; Jan. 26; Gaz. vol. 210; p. 1390.
- Mackey, Chandler A., New York, N. Y. Green coffee. Nos. 105,303-4; July 13; Gaz. vol. 216; p. 660.
- Macleay Estate Co., The, Portland, Oreg. Canned salmon. No. 104,306; May 18; Gaz. vol. 214; p. 1021.
- Maclin-Zimmer-McGill Tobacco Co., Incorporated, Petersburg, Va. Tobaccos. No. 103,295; Mar. 30; Gaz. vol. 212; p. 1683.
- Maclin-Zimmer-McGill Tobacco Co., Incorporated, Petersburg, Va. Tobaccos. No. 103,729; Apr. 13; Gaz. vol. 213; p. 742.
- Maclin-Zimmer-McGill Tobacco Co., Incorporated, Petersburg, Va. Plug, twist, cut-plug, smoking, and leaf tobaccos. No. 104,544; June 1; Gaz. vol. 215; p. 320.
- Maclin-Zimmer-McGill Tobacco Co., Incorporated, Petersburg, Va. Plug, twist, cut-plug, smoking, and leaf tobaccos. No. 106,075; Oct. 5; Gaz. vol. 219; p. 267.
- Macpherson, John, New York, N. Y. Washing-powder. No. 103,244; Mar. 23; Gaz. vol. 212; p. 1354.
- Macy & Co., R. H., New York, N. Y. Scarf-pins, necklaces, lavallières, rings, &c. No. 104,071; Apr. 27; Gaz. vol. 213; p. 1443.
- Macy & Co., R. H., New York, N. Y. Rouges. No. 104,462; June 1; Gaz. vol. 215; p. 317.
- Macy & Company, R. H., New York, N. Y. Aprons. No. 106,641; Oct. 26; Gaz. vol. 219; p. 1230.
- Magic Mist, Inc. (See Quin, William E., assignor.)
- Magnalium-Industrie Gesellschaft m. b. H., Lankwitz, near Berlin, Germany. Aluminum, magnesium, and aluminum-magnesium alloys. No. 106,877; Nov. 2; Gaz. vol. 220; p. 344.
- Maguire, Richard K., New York, N. Y. Medicinal preparation for certain named ailments. No. 106,984; Nov. 9; Gaz. vol. 220; p. 671.
- Mahon, W. T., St. Louis, Mo. Proprietary medicines for treatment of certain named cases. No. 102,133; Jan. 26; Gaz. vol. 210; p. 1391.
- Mahoney, James E., Chattanooga, Tenn. Medicated salve. No. 105,216; July 13; Gaz. vol. 216; p. 658.
- Main Brothers Box & Lumber Co., Karnak, Ill. Box-shooks. No. 107,712; Dec. 21; Gaz. vol. 221; p. 1036.
- Maison Blanche Co., New Orleans, La. Shoes, millinery, (hats,) wearing-apparel, &c. No. 103,170; Mar. 16; Gaz. vol. 212; p. 1054.
- Majestic Company, The, Huntington, Ind. Coal-chutes and garbage-receivers. No. 107,184; Nov. 16; Gaz. vol. 220; p. 1036.
- Malina, Filomena, Chicago, Ill. Medical compound for coughs, colds, hoarseness, asthma, &c. No. 106,349; Oct. 19; Gaz. vol. 219; p. 922.
- Mallard, Logan L., Baltimore, Md. Soft drink. No. 107,690; Dec. 21; Gaz. vol. 221; p. 1035.
- Mallinson & Co., H. R., New York, N. Y. Silk piece goods. No. 105,466; July 27; Gaz. vol. 216; p. 1314.
- Mallinson & Co., H. R., New York, N. Y. Broad silks. No. 106,642; Oct. 26; Gaz. vol. 219; p. 1230.
- Mallinson & Co., H. R., New York, N. Y. Broad satins. No. 106,643; Oct. 26; Gaz. vol. 219; p. 1230.
- Mallinson & Co., H. R., New York, N. Y. Woven silk in the piece. No. 106,985; Nov. 9; Gaz. vol. 220; p. 671.
- Mallinson & Co., H. R., New York, N. Y. Woven silk in the piece. No. 107,791; Dec. 28; Gaz. vol. 221; p. 1447.
- Mallinson, Hiram R., New York, N. Y. Broad silk and silk ribbons. No. 107,802; Dec. 28; Gaz. vol. 221; p. 1447.
- Mallory, Edward F., New York, N. Y. Glass distributing receptacles and bottles. No. 105,898; Aug. 24; Gaz. vol. 217; p. 1337.
- Manchester Cotton Mills, Lagrange and Manchester, Ga. Cotton piece goods. No. 103,666; Apr. 13; Gaz. vol. 213; p. 740.
- Mandabach, Peter A., Chicago, Ill. Candy confection. No. 104,803; June 15; Gaz. vol. 215; p. 974.
- Mangels, William F., Brooklyn, N. Y. Amusement apparatus. No. 103,106. Mar. 16; Gaz. vol. 212; p. 1052.
- Manhattan Clothing Company, New York, N. Y. Men's and boys' outer suits, coats, and trousers. No. 102,533; Feb. 9; Gaz. vol. 211; p. 639.
- Manhattan Embroidery Company, New York, N. Y. Embroidered initials, monograms, and designs. No. 107,448; Nov. 30; Gaz. vol. 220; p. 1715.
- Manhattan Shirt Company, New York, N. Y. Certain named clothing made of textile material. No. 103,906; Apr. 20; Gaz. vol. 213; p. 1112.
- Manhattan Shirt Company, The, New York, N. Y. Textile shirts, drawers, and union suits. No. 106,644; Oct. 26; Gaz. vol. 219; p. 1230.
- Manatee Fruit Co., Palmetto, Fla. Oranges and grapefruit. No. 102,572; Feb. 16; Gaz. vol. 211; p. 951.
- Mankin, Florence C., Washington, D. C. Candy. No. 106,459; Oct. 19; Gaz. vol. 219; p. 925.
- Manowitz, Hyman, New York, N. Y. Preparation for ailments arising from indigestion and constipation. No. 105,985; Sept. 7; Gaz. vol. 218; p. 317.
- Mansfield, Fred, Providence, R. I. Blended Scotch whisky. No. 102,291; Feb. 2; Gaz. vol. 211; p. 280.
- Mansfield, John, Houston, Tex. Paints, dressings, and finishes for vehicle-tops. No. 102,977; Mar. 9; Gaz. vol. 212; p. 685.
- Mansfield Milling Co., The, Mansfield, Ohio. Wheat-flour. Nos. 107,619-20; Dec. 14; Gaz. vol. 221; p. 732.
- Mantle Lamp Company of America, The, Chicago, Ill. Incandescent-mantle lamps, burners, lamp-wicks, &c. No. 102,424; Feb. 9; Gaz. vol. 211; p. 636.
- Mantle Lamp Company of America, The, Chicago, Ill. Lamp-chimneys. No. 104,072; Apr. 27; Gaz. vol. 213; p. 1443.
- Manufacturers and Retailers Company, Chicago, Ill. Certain named chemicals and pharmaceutical preparations. No. 102,573; Feb. 16; Gaz. vol. 211; p. 951.
- Manville Company, Providence, R. I. Silk, cotton, linen, and woolen piece goods and mixtures thereof. No. 103,438; Apr. 6; Gaz. vol. 213; p. 352.
- Maragousis Co., D., Seattle, Wash. Cigarettes. No. 105,499; July 27; Gaz. vol. 216; p. 1315.
- Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber tires, casings, and tubes. No. 102,292; Feb. 2; Gaz. vol. 211; p. 280.
- Marcy Company, The, Boston, Mass. Liver remedy. No. 104,073; Apr. 27; Gaz. vol. 213; p. 1443.
- Mares, Matt, Racine, Wis. Plowshares. No. 106,113; Oct. 12; Gaz. vol. 219; p. 581.
- Mares, Matthew, Racine, Wis. Plowshares. No. 106,076; Oct. 5; Gaz. vol. 219; p. 267.
- Margerison & Co., W. H. & A. E., Philadelphia, Pa. Turkish-towels, terry cloths and pile fabrics, bath-rugs, and washcloths. No. 103,027; Mar. 16; Gaz. vol. 212; p. 1050.
- Marglous Manufacturing Company, St. Louis, Mo. Overalls, trousers, coats, jumpers, and shirts. No. 102,944; Mar. 2; Gaz. vol. 212; p. 324.
- Margulis, A., Philadelphia, Pa. Whisky. No. 106,647; Oct. 26; Gaz. vol. 219; p. 1230.
- Mariner, George P., Philadelphia, Pa. Peanut-butter. No. 107,618; Dec. 14; Gaz. vol. 221; p. 732.
- Market Forge Company, The, Chelsea, Mass. Metal trucks. No. 104,622; June 8; Gaz. vol. 215; p. 662.
- Markley, William D., Harrisburg, Pa. Pain-allaying antiseptic liniment. No. 102,613; Feb. 16; Gaz. vol. 211; p. 952.
- Marlowe Manufacturing Company, New York, N. Y. Hairnets. No. 103,356; Mar. 30; Gaz. vol. 212; p. 1685.
- Marquette Cement Manufacturing Co., Chicago and Oglesby, Ill. Portland cement. No. 104,984; June 29; Gaz. vol. 215; p. 1495.
- Marquette Cement Manufacturing Co., Chicago and Oglesby, Ill. Portland cement. No. 106,350; Oct. 19; Gaz. vol. 219; p. 922.
- Marrone, Vincenzo, Utica, N. Y. Olive-oil. No. 106,460; Oct. 19; Gaz. vol. 219; p. 925.
- Marsh Baking Co., Inc., Stamford, Conn. Bread, wrapped and unwrapped. No. 104,172; May 4; Gaz. vol. 214; p. 340.
- Marsh Commission Company, Pine Bluff, Ark. Cornmeal, grits, corn chops, mixed feed, &c. No. 106,053; Sept. 21; Gaz. vol. 218; p. 873.
- Marsh, Ellen D., New York, N. Y. Liquid preparation. No. 102,978; Mar. 9; Gaz. vol. 212; p. 685.
- Marshall Field & Company, Chicago, Ill. Linen, cotton, and mixed linen and cotton piece goods. No. 104,382; May 25; Gaz. vol. 214; p. 1316.
- Marshall Field & Company, Chicago, Ill. Plain and mechanical toys. No. 106,589; Oct. 26; Gaz. vol. 219; p. 1228.
- Marshall & Hedricks, Canton, Ohio. Paint and varnish cleaner and polish. No. 106,878; Nov. 2; Gaz. vol. 220; p. 344.
- Marshall Milling Company, Marshall, Minn. Wheat-flour. No. 106,648; Oct. 26; Gaz. vol. 219; p. 1230.
- Mart & Lawton, New York, N. Y. Quarries, tiles, and bricks made from burned clay. No. 102,425; Feb. 9; Gaz. vol. 211; p. 636.
- Martin, Charles C., Denver, Colo. Cheese. No. 103,390; Mar. 30; Gaz. vol. 212; p. 1686.
- Martin, Charles C., Denver, Colo. Cheese. No. 104,307; May 18; Gaz. vol. 214; p. 1021.
- Martin-Howe Coal Co., Chicago, Ill. Coal. No. 103,956; Apr. 20; Gaz. vol. 213; p. 1114.
- Martindale & Co., Thomas, Philadelphia, Pa. Tea, table-syrup, and vinegar. No. 101,962; Jan. 19; Gaz. vol. 210; p. 1061.
- Martindale & Co., Thomas, Philadelphia, Pa. Certain foods. No. 102,426; Feb. 9; Gaz. vol. 211; p. 636.
- Martino & Figlio, G. B., Genoa, Italy. Olive-oil. No. 102,716; Feb. 23; Gaz. vol. 211; p. 1256.
- Martino & Figlio, G. B., Genoa, Italy. Pulverized vegetables and kitchen herbs. No. 106,787; Oct. 26; Gaz. vol. 219; p. 1234.

Alphabetical list of registrants of trade-marks—Continued.

- Marvel Pile Remedy Co., Cleveland, Ohio. Pile remedy. No. 107,523; Dec. 7; Gaz. vol. 221; p. 346.
- Mary Elizabeth's, New York, N. Y. Candies, chocolates, jellies, &c. No. 101,703; Jan. 5; Gaz. vol. 210; p. 395.
- Maryland Rubber Company, Baltimore, Md. Bathing caps and gloves. No. 102,134; Jan. 26; Gaz. vol. 210; p. 1391.
- Maryland Rubber Company, Baltimore, Md. Air beds, cushions, and pillows, water beds and cushions. No. 102,135; Jan. 26; Gaz. vol. 210; p. 1391.
- Mason, John T., Kewanee, Ill. Wheat breakfast food. No. 106,461; Oct. 19; Gaz. vol. 219; p. 925.
- Massey-Harris Co., Limited, Toronto, Ontario, Canada. Certain named machinery and tools. No. 107,358; Nov. 23; Gaz. vol. 220; p. 1368.
- Massillon Aluminum Co., The, Massillon, Ohio. Aluminum ware. No. 103,787; Apr. 13; Gaz. vol. 213; p. 743.
- Mat-Macald Co., Bristol, R. I. Liquid preparation for use on glass to prevent accumulation of moisture and dust. No. 103,821; Apr. 13; Gaz. vol. 213; p. 744.
- Mathias & Co., Albert, El Paso, Tex. Overall's jackets, men's cloth pants, vests, and coats. No. 104,060; Apr. 27; Gaz. vol. 213; p. 1443.
- Mattison, Joseph R., Dallas, Tex. Remedy for certain named ailments and diseases. No. 102,427; Mar. 9; Gaz. vol. 211; p. 636.
- Matzene Co., Chicago, Ill. Photographs. No. 105,917; Aug. 24; Gaz. vol. 217; p. 1337.
- Maurer, Martin R., Elizabeth, N. J. Foods for dogs, poultry, and stock. No. 107,576; Dec. 14; Gaz. vol. 221; p. 731.
- Mauser Mill Company, The, Laurys Station, Pa. Rye-flour. No. 107,621; Dec. 14; Gaz. vol. 221; p. 732.
- Max Glick Company, The, Cleveland, Ohio. Candy. No. 102,517; Feb. 9; Gaz. vol. 211; p. 638.
- Max Glick Company, The, Cleveland, Ohio. Candy. No. 106,595; Oct. 26; Gaz. vol. 219; p. 228.
- Max Greenberg & Company, New York, N. Y. Ladies' mourning costumes, waists, and dresses. No. 107,682; Dec. 21; Gaz. vol. 221; p. 1035.
- Max Mayer & Sons Co., New York, N. Y. Bathing-suits and woven swimming-tights. No. 103,172; Mar. 16; Gaz. vol. 212; p. 1054.
- Max Rosner Co., New York, N. Y. Crayons. No. 106,536; Oct. 19; Gaz. vol. 219; p. 927.
- Maxwell-Ray Company, Milwaukee, Wis. Electric lamps, electric-lamp stands, electric-light fixtures and brackets. No. 104,564; June 1; Gaz. vol. 215; p. 321.
- Mayfield Co., The, Binghamton, N. Y. Medicine for the relief of certain named ailments. No. 103,564; Apr. 6; Gaz. vol. 213; p. 356.
- Mayfield Company, Tyler, Tex. Certain named foods. No. 107,577; Dec. 14; Gaz. vol. 221; p. 731.
- Mayfield Company, Tyler, Tex. Certain named foods. No. 107,792; Dec. 28; Gaz. vol. 221; p. 1447.
- Maynard Coal Company, The, Columbus, Ohio. Coal. No. 106,168; Oct. 12; Gaz. vol. 219; p. 583.
- Mayo Mills, The, Mayodan, N. C. and New York, N. Y. Underwear of knitted fabric and hosiery. No. 105,517; Aug. 3; Gaz. vol. 217; p. 335.
- Mazzinghi, Alberto, Leghorn, Italy. Olive-oils. No. 104,004; Apr. 27; Gaz. vol. 213; p. 1441.
- McAdoo & Allen, Philadelphia, Pa. Leather welting. Nos. 106,462-3; Oct. 19; Gaz. vol. 219; p. 925.
- McAdoo, John A., Charlotte, N. C. Cigars. No. 107,670; Dec. 14; Gaz. vol. 221; p. 734.
- McCanna & Fraser Co., Inc., Philadelphia, Pa. Butter and cheese. No. 103,698; Apr. 13; Gaz. vol. 213; p. 741.
- McChesney, Peter C., Springfield, N. J. Preservative for leather. No. 102,136; Jan. 26; Gaz. vol. 210; p. 1391.
- McClanahan, Charles H., Cowden, Ill. Preparation for treatment of cancer. No. 104,880; June 22; Gaz. vol. 215; p. 1258.
- McClinton's Limited, Donaghmore, Ireland. Certain named abrasive, detergent, and polishing materials. No. 102,881; Feb. 23; Gaz. vol. 211; p. 1261.
- McClinton's Limited, Donaghmore, Ireland. Soap, washing powders and compounds, polishes for gold, silver, &c. No. 103,957; Apr. 20; Gaz. vol. 213; p. 1114.
- McCormack & Rimbach, Hartford, Conn. Horseshoes. No. 102,614; Feb. 16; Gaz. vol. 211; p. 952.
- McCormick & Co., Baltimore, Md. Certain named pharmaceutical preparations and medicines. No. 103,591; Apr. 6; Gaz. vol. 213; p. 357.
- McDonald, Charles R., East Liverpool, assignor to Sanitary Ice Cream Sandwich Company, Cleveland, Ohio. Ice-cream sandwiches. No. 103,699; Apr. 13; Gaz. vol. 213; p. 741.
- McDonald, Charles R., East Liverpool, assignor to Sanitary Ice Cream Sandwich Company, Cleveland, Ohio. Ice-cream-sandwich machines. No. 104,912; June 22; Gaz. vol. 215; p. 1259.
- McDonald Milling Company, McDonald, Pa. Self-rising pancake, buckwheat, and biscuit flours. No. 107,622; Dec. 14; Gaz. vol. 221; p. 732.
- McDougall Company, Frankfort, Ind. Kitchen-cabinets. No. 102,137; Jan. 26; Gaz. vol. 210; p. 1391.
- McDougall Company, Frankfort, Ind. Kitchen-cabinets. No. 103,907; Apr. 20; Gaz. vol. 213; p. 1113.
- McElroy, John H., Chicago, Ill. Shower-bath apparatus. No. 101,788; Jan. 12; Gaz. vol. 210; p. 711.
- McEwen, Irving, Omaha, Nebr. Certain named toilet preparations. No. 102,293; Feb. 2; Gaz. vol. 211; p. 280.
- McEwen, Irving, Omaha, Nebr. Concentrated "pure fruit" flavor and certain named beverages. No. 103,067; Mar. 16; Gaz. vol. 212; p. 1051.
- McFadden, James T., Pittsburgh, Pa. Medicinal preparations for the intestinal tract. No. 106,651; Oct. 26; Gaz. vol. 219; p. 1230.
- McGraw Tire & Rubber Company, The, East Palestine, Ohio. Rubber tires. No. 102,865; Feb. 23; Gaz. vol. 211; p. 1261.
- McGuire, John C., Detroit, Mich. Steel of every description. No. 104,739; June 15; Gaz. vol. 215; p. 972.
- McGuire, William L., San Francisco, Cal. Syringes. No. 102,335; Feb. 9; Gaz. vol. 211; p. 633.
- McIndoo, J. J., Lindsay, Cal. Citrus fruits. No. 102,429; Feb. 9; Gaz. vol. 211; p. 636.
- McKesson & Robbins, New York, N. Y. Sponges. No. 106,241; Oct. 19; Gaz. vol. 219; p. 918.
- McKnight-Keaton Grocery Co., Cairo, Ill. Baking-powder. No. 106,351; Oct. 19; Gaz. vol. 219; p. 922.
- McLean, Ross B., Newark, N. J. Candy. No. 103,107; Mar. 16; Gaz. vol. 212; p. 1052.
- McLellan, Archibald, *et al.*, trustees. (See Eddy, Mary B. G.)
- McLees Bros., Lindsay, Cal. Oranges. No. 106,879; Nov. 2; Gaz. vol. 220; p. 344.
- McMahan & Co., C. E., Houston, Tex. Head-rice. No. 101,789; Jan. 12; Gaz. vol. 210; p. 711.
- McNeely & Price, Philadelphia, Pa. Glazed kid. No. 102,334; Feb. 9; Gaz. vol. 211; p. 633.
- McRae, Jennie M., Bisbee, Ariz. Hair-tonic. No. 106,004; Sept. 14; Gaz. vol. 218; p. 599.
- McTernan Rubber Manufacturing Co., Reading, Mass. Rubber heels. No. 105,549; Aug. 3; Gaz. vol. 217; p. 336.
- Meadowcroft, Elizabeth I., New London, Conn. Polish. No. 106,242; Oct. 19; Gaz. vol. 219; p. 918.
- Measuregraph Company, The, St. Louis, Mo. Cloth and fabric measuring machines and parts thereof. No. 104,624; June 8; Gaz. vol. 215; p. 662.
- Mecca Manufacturing & Specialty Co., New York, N. Y. Carbureters, pumps, wrench sets, &c. No. 106,880; Nov. 2; Gaz. vol. 220; p. 344.
- Mecca Manufacturing & Specialty Co., New York, N. Y. Automobiles and parts thereof. No. 107,360; Nov. 23; Gaz. vol. 220; p. 1368.
- Mecca Manufacturing & Specialty Co., New York, N. Y. Automobile-tires, inner tubes, piston-rings, &c. No. 107,431; Nov. 23; Gaz. vol. 220; p. 1370.
- Mecca Manufacturing & Specialty Co., New York, N. Y. Mechanically-operated automobile-horns. No. 107,624; Dec. 14; Gaz. vol. 221; p. 732.
- Mechanical Rubber Company, The, Jersey City, N. J.; New York, N. Y., and Cleveland, Ohio. Sheet-packing. No. 103,607; Apr. 13; Gaz. vol. 213; p. 740.
- Mechanical Rubber Company, The, Jersey City, N. J.; New York, N. Y., and Cleveland, Ohio. Rubber and composition packings. No. 106,352; Oct. 19; Gaz. vol. 219; p. 922.
- Mechanical Rubber Company, The, Jersey City, N. J.; New York, N. Y., and Cleveland, Ohio. Machinery packing. No. 107,713; Dec. 21; Gaz. vol. 221; p. 1036.
- Meier Dental Manufacturing Co., The, St. Louis, Mo. Antiseptic preparations for pyorrhea. No. 105,166; July 6; Gaz. vol. 216; p. 324.
- Meletis, John, Pittsburgh, Pa. Compound hair-tonic. No. 107,625; Dec. 14; Gaz. vol. 221; p. 732.
- Melies Manufacturing Co., New York, N. Y. Motion-picture films. No. 103,173; Mar. 16; Gaz. vol. 212; p. 1054.
- Melies Mfg. Co., New York, N. Y. Moving-picture films. No. 106,115; Oct. 12; Gaz. vol. 219; p. 582.
- Melster, Herman R., Jacksonville, Fla. Certain beverages and syrups and flavoring extracts used therein. No. 103,391; Mar. 30; Gaz. vol. 212; p. 1686.
- Melville, Frank, Jr., New York, N. Y. Leather shoes. No. 104,625; June 8; Gaz. vol. 215; p. 662.
- Melville, Frank, Jr., New York, N. Y. Leather shoes. No. 107,038; Nov. 9; Gaz. vol. 220; p. 672.
- Mendel-Drucker Company, The, Norwood, Ohio. Trunks. No. 105,500; July 27; Gaz. vol. 216; p. 1315.
- Mendel, Julius L., assignor of one-half to L. Bergman, New York, N. Y. Dentifrice-dispensers. No. 106,169; Oct. 12; Gaz. vol. 219; p. 583.
- Mendelsohn Co. Inc., Cleveland, Ohio. Cigars. No. 107,851; Dec. 28; Gaz. vol. 221; p. 1448.
- Menley & James, Limited, New York, N. Y. Compound sulfur ointment. No. 104,463; June 1; Gaz. vol. 215; p. 318.
- Merchants Candy Company, Salt Lake City, Utah. Candy. No. 105,986; Sept. 7; Gaz. vol. 218; p. 317.
- Mercian, Joseph H., New York, N. Y. Canned fish and vegetables. No. 106,077; Oct. 5; Gaz. vol. 219; p. 267.
- Merck, Firm of E., Darmstadt, Germany. Hydrogen peroxid in solid form and rendered stable. No. 103,758; Apr. 13; Gaz. vol. 213; p. 742.
- Merit Corporation, The, Chicago, Ill. Weekly newspaper. No. 102,842; Feb. 23; Gaz. vol. 211; p. 1260.

- Merrell-Soule Company, Syracuse, N. Y. Food product. No. 105,420; July 20; Gaz. vol. 216; p. 1010.
- Merrill Silk Company, Hornell, N. Y. Ladies' and misses' silk gloves, hosiery, bloomers, and vests. No. 105,737; Aug. 17; Gaz. vol. 217; p. 1049.
- Merry Cleanser Company, Almot, Wash. Washing-powder for kettles, pots, fabric, &c. No. 101,860; Jan. 12; Gaz. vol. 210; p. 713.
- Mertz, Vict. E., New York, N. Y. Air-circulating apparatus. No. 101,745; Jan. 12; Gaz. vol. 210; p. 709.
- Metal Stampings Corporation, Streator, Ill. Carpet-sweepers. No. 107,272; Nov. 16; Gaz. vol. 220; p. 1039.
- Metals Company, Chicago, Ill. Heat and sound insulating material used principally in steel passenger and refrigerator cars. No. 107,361; Nov. 23; Gaz. vol. 220; p. 1368.
- Metalyte Company, The, Inc., New York, N. Y. Incandescent electric lamps, pocket flash-lights and holders. No. 107,822; Dec. 28; Gaz. vol. 221; p. 1448.
- Metzger, John C., Chicago, Ill. Metal coat or hat hooks. No. 105,022; June 29; Gaz. vol. 215; p. 1496.
- Meyer, Firm of Arnold O., Hamburg, Germany. Knit cotton piece goods. No. 101,861; Jan. 12; Gaz. vol. 210; p. 713.
- Meyer, Johannes, Brooklyn and New York, N. Y. Medicinal pills and tablets for treating certain named diseases. No. 104,393; May 25; Gaz. vol. 214; p. 1316.
- Meyer, John C., Lowell, Mass. Thread. Nos. 103,029-30; Mar. 16; Gaz. vol. 212; p. 1050.
- Meyer & Co., John H., New York, N. Y. Cotton, linen, woolen, and silk piece goods. No. 103,174; Mar. 16; Gaz. vol. 212; p. 1054.
- Meyer, Sol., Indianapolis, Ind. Preparations for the prevention of venereal diseases. No. 104,740; June 15; Gaz. vol. 215; p. 972.
- Meyer, Sol., Indianapolis, Ind. Preparations for the prevention of venereal diseases. No. 104,985; June 29; Gaz. vol. 215; p. 1495.
- Meyer, Sol., Cleveland, Ohio. Surgeons' rubber gloves. No. 107,449; Nov. 30; Gaz. vol. 220; p. 1715.
- Meyer & Thompson Co., Inc., The, New York, N. Y. Cured fish. No. 104,259; May 11; Gaz. vol. 214; p. 679.
- Meyers & Son, Louis, New York, N. Y. Gloves. No. 102,687; Feb. 23; Gaz. vol. 211; p. 1255.
- Meyers and Theiner, Detroit, Mich. Hair-tonics. No. 103,788; Apr. 13; Gaz. vol. 213; p. 743.
- Meyner, Walter, New York, N. Y. Wooden blocks and figure toys. No. 106,881; Nov. 2; Gaz. vol. 220; p. 344.
- Michels, Peter J., New York, N. Y. Razors, shears, scissors, and files. No. 103,109; Mar. 16; Gaz. vol. 212; p. 1052.
- Michigan Stove Company, The, Detroit, Mich. Electric stoves, ranges, heaters, irons, &c. No. 106,170; Oct. 12; Gaz. vol. 219; p. 583.
- Micro Piston Ring Co., New York, N. Y. Piston-rings. No. 105,440; July 27; Gaz. vol. 216; p. 1313.
- Middlebrook Wool Combing Company, East Boston, Mass. Wool tops. No. 104,838; June 22; Gaz. vol. 215; p. 1257.
- Miers, Daniel M., New York, N. Y. Sauces for flavoring foodstuffs. No. 105,604; Aug. 10; Gaz. vol. 217; p. 694.
- Migel & Company, M. C., New York, N. Y. Silk piece goods and printed silks. No. 101,862; Jan. 12; Gaz. vol. 210; p. 713.
- Migel & Co., M. C., New York, N. Y. Silk piece goods. No. 104,804; June 15; Gaz. vol. 215; p. 974.
- Migel, Julius A., New York, N. Y. Broad silks. No. 107,803; Dec. 28; Gaz. vol. 221; p. 1447.
- Miles Manufacturing Co., The, Jackson, Mich. Concrete-mixers. No. 107,432; Nov. 23; Gaz. vol. 220; p. 1370.
- Millar, David, St. Louis, Mo. Flavored and unflavored popcorn and popcorn confections. No. 103,668; Apr. 13; Gaz. vol. 213; p. 740.
- Miller, A. W., Birmingham, Ala. Garters. No. 102,534; Feb. 9; Gaz. vol. 211; p. 639.
- Miller, Alten S., New York, N. Y. Certain packings for the joints of gas pipes. No. 104,122; May 4; Gaz. vol. 214; p. 339.
- Miller Cigar Co., The, Wheeling, W. Va. Stogies. No. 106,243; Oct. 19; Gaz. vol. 219; p. 918.
- Miller, Clifford B., Buffalo, N. Y. Baking and cooking compound used as a substitute for eggs. No. 106,653; Oct. 26; Gaz. vol. 219; p. 1230.
- Miller, Edward R., Dayton, Ohio. Cough-syrup. No. 106,116; Oct. 12; Gaz. vol. 219; p. 582.
- Miller-Elmer Manufacturing Co., Ltd., New Orleans, La. Chocolates. No. 105,218; July 13; Gaz. vol. 216; p. 658.
- Miller, Hess & Company, Incorporated, Akron, Pa. Ladies', misses', and children's shoes of rubber, leather, or canvas. No. 104,333; May 18; Gaz. vol. 214; p. 1022.
- Miller Mfg. Co., Clear Lake, Iowa. Combined shampoo and hair-tonic. No. 107,714; Dec. 21; Gaz. vol. 221; p. 1038.
- Miller Organ & Piano Co., Lebanon, Pa. Pianos. No. 104,773; June 15; Gaz. vol. 215; p. 973.
- Miller Rubber Company, The, Akron, Ohio. Surgeons' rubber gloves, rubber diapers, and sanitary aprons. No. 102,655; Feb. 16; Gaz. vol. 211; p. 954.
- Millville Manufacturing Company, Philadelphia, Pa. Cotton piece goods. No. 101,964; Jan. 19; Gaz. vol. 210; p. 1061.
- Millville Manufacturing Company, The, Philadelphia, Pa. Cotton piece goods. No. 105,467; July 27; Gaz. vol. 216; p. 1314.
- Millville Manufacturing Company, The, Philadelphia, Pa. Cotton piece goods. No. 105,550; Aug. 3; Gaz. vol. 217; p. 336.
- Millwall Rubber Company Limited, London, England. Rubber heels and soles. No. 101,679; Jan. 5; Gaz. vol. 210; p. 395.
- Milner Supply Company, The, Coldwater, Mich. Tea and coffee. No. 103,619; Apr. 6; Gaz. vol. 213; p. 357.
- Milton Bradley Co., Springfield, Mass. Games. No. 101,619; Jan. 5; Gaz. vol. 210; p. 393.
- Milton Bradley Co., Springfield, Mass. Games. No. 105,992; Sept. 14; Gaz. vol. 218; p. 599.
- Milwaukee Hosiery Company, Milwaukee, Wis. Men's, ladies', and children's hosiery. No. 107,362; Nov. 23; Gaz. vol. 220; p. 1368.
- Milwaukee Lace Paper Company, Milwaukee, Wis. Certain named lace-paper products, paper excelsior, and confetti. No. 103,759; Apr. 13; Gaz. vol. 213; p. 742.
- Minerva Toilet Goods Manufacturing Company, (not incorporated), Chicago, Ill. Face-powder, face and cold creams, and rouge. No. 105,899; Aug. 24; Gaz. vol. 217; p. 1337.
- Minimax Factories, Chicago, Ill. Illuminated structural show-window signs. No. 107,691; Dec. 21; Gaz. vol. 221; p. 1035.
- Minneapolis Bedding Company, Minneapolis, Minn. Bed-springs. No. 104,334; May 18; Gaz. vol. 214; p. 1022.
- Minneapolis Steel & Machinery Company, Minneapolis, Minn. Gas traction-engines. No. 103,620; Apr. 6; Gaz. vol. 213; p. 357.
- Minnesota Manufacturers Association, North St. Paul, Minn. Monthly publication. No. 105,738; Aug. 17; Gaz. vol. 217; p. 1050.
- Mintons, Limited, Stoke-upon-Trent, England. China and earthenware. No. 105,793; Aug. 17; Gaz. vol. 217; p. 1051.
- Mintz, Oscar, Newark, N. J. Cigars. No. 103,440; Apr. 6; Gaz. vol. 213; p. 352.
- Mirror, The, New York, N. Y. Candy. No. 107,433; Nov. 23; Gaz. vol. 220; p. 1370.
- Mishawaka Woolen Manufacturing Company, Mishawaka, Ind. Rubber automobile-tires. Nos. 103,908-9; Apr. 20; Gaz. vol. 213; p. 1113.
- Mishawaka Woolen Manufacturing Company, Mishawaka, Ind. Certain named rubber footwear. No. 105,441; July 27; Gaz. vol. 216; p. 1313.
- Mishawaka Woolen Manufacturing Company, Mishawaka, Ind. Footwear. No. 106,654; Oct. 26; Gaz. vol. 219; p. 1230.
- Mission Brewing Company, San Diego, Cal. Fermented malt liquor of low alcoholic content. No. 105,825; Aug. 17; Gaz. vol. 217; p. 1052.
- Mission Chemical Company, Los Angeles, Cal. Laxatives. No. 103,175; Mar. 16; Gaz. vol. 212; p. 1054.
- Mission Chemical Company, Los Angeles, Cal. Laxatives. No. 103,245; Mar. 23; Gaz. vol. 212; p. 1354.
- Mississippi Coffee Company, Gulfport, Miss. Coffee and chicory. Nos. 103,860-1; Apr. 20; Gaz. vol. 213; p. 1111.
- Mitchell, Joshua B., New York, N. Y. Shoe covering and protectors. No. 105,551; Aug. 3; Gaz. vol. 217; p. 336.
- Mitchell, Stephen J., New York, N. Y. Writing and typewriting paper other than carbon or coated manifold papers. Nos. 106,244-5; Oct. 19; Gaz. vol. 219; p. 918.
- Mitchell, Thomas J., New York, N. Y. Silks in the piece. No. 102,756; Feb. 23; Gaz. vol. 211; p. 1257.
- Miwa, Zenbei, Tokyo, Japan. Perfumes, incense, hair dye, and lotion, &c. No. 103,005; Mar. 16; Gaz. vol. 212; p. 1049.
- Miwa, Zenbei, Tokyo, Japan. Soap. No. 103,822; Apr. 13; Gaz. vol. 213; p. 744.
- Moan, Margaret, Ruthven, Iowa. Salve. No. 104,223; May 11; Gaz. vol. 214; p. 678.
- Mock, Adolph L., New York, N. Y. Cigarettes and smoking-tobacco. No. 104,181; May 4; Gaz. vol. 214; p. 341.
- Mock, Adolph L., New York, N. Y. Growing plants and flowers and cut flowers. No. 104,805; June 15; Gaz. vol. 215; p. 974.
- Moczil, Frank, New York, N. Y. Purgative and blood-purifier. No. 106,246; Oct. 19; Gaz. vol. 219; p. 918.
- Moeschl-Edwards Corrugating Co., The, Covington, Ky. Certain named construction materials. No. 107,626; Dec. 14; Gaz. vol. 221; p. 732.
- Mogridge & Fiscus, Mertztown, Pa. Carpets and textile rugs. No. 102,633; Feb. 16; Gaz. vol. 211; p. 953.
- Mohawk Mfg. Co., Torrington, Conn. Baking-powder. No. 105,552; Aug. 3; Gaz. vol. 217; p. 336.
- Mohawk Overall Co., Detroit, Mich. Work-shirts, jackets, trousers, and overalls. No. 104,464; June 1; Gaz. vol. 215; p. 318.
- Mojo, Arthur O., New York, N. Y. Coffee, tea, cocoa, sugar, &c. No. 105,167; July 6; Gaz. vol. 216; p. 324.
- Moline Tool Company, Moline, Ill. Boring and drilling machines. No. 104,626; June 8; Gaz. vol. 215; p. 662.
- Mollan, Charles G., Chicago, Ill. Combined lamp-bracket, electrical signal, electric sign and lighting devices for automobiles. No. 102,535; Feb. 9; Gaz. vol. 211; p. 639.

Alphabetical list of registrants of trade-marks—Continued.

- Molloy, Thomas J., Brooklyn, N. Y. Scotch whisky. No. 107,476; Dec. 7; Gaz. vol. 221; p. 345.
- Monaghan, Mills, Greenville, S. C. Cotton piece goods. No. 105,501; July 27; Gaz. vol. 216; p. 1315.
- Monarch Knitting Company, Limited, The, Dunnville, Canada, and Buffalo, N. Y. Knitted sweaters, mufflers, caps, and toques. No. 106,788; Oct. 26; Gaz. vol. 219; p. 1234.
- Monarch Manufacturing Company, The, Bascom, Ohio. Washboards. No. 107,557; Dec. 7; Gaz. vol. 221; p. 347.
- Monomac Spinning Company, Lawrence and Boston, Mass. French spun worsted and merino yarns. No. 103,760; Apr. 13; Gaz. vol. 213; p. 742.
- Monroe Drug Co., Quincy, Ill. Cereal coffee substitute. No. 106,465; Oct. 19; Gaz. vol. 219; p. 925.
- Montana, Andrew, Los Angeles, Cal. Hair-tonic. No. 102,634; Feb. 16; Gaz. vol. 211; p. 953.
- Montana Flour Mills Company, Lewistown, Mont. Wheat-flour. No. 105,859; Aug. 24; Gaz. vol. 217; p. 1335.
- Montanin Company, New York, N. Y. Wood-preserving and damp-proofing compounds. No. 102,138; Jan. 26; Gaz. vol. 210; p. 1391.
- Montgomery, Lucinda J., Micanopy, Fla. Preparations for treating certain named afflictions. No. 103,268; Mar. 23; Gaz. vol. 212; p. 1355.
- Montgomery Ward & Co., Inc., New York and Brooklyn, N. Y.; Chicago, Ill.; Fort Worth, Tex.; Kansas City, Mo., and Portland, Ore. Certain named articles made of or plated with precious metals. No. 103,246; Mar. 23; Gaz. vol. 212; p. 1354.
- Montgomery Ward & Co., Inc., New York and Brooklyn, N. Y.; Chicago, Ill.; Fort Worth, Tex.; Kansas City, Mo., and Portland, Ore. Certain named belting, machinery packing, and tires. No. 105,667; Aug. 10; Gaz. vol. 217; p. 695.
- Montgomery Ward & Co., Inc., New York and Brooklyn, N. Y.; Chicago, Ill.; Fort Worth, Tex.; Kansas City, Mo., and Portland, Ore. Certain named games, toys, and sporting goods. No. 106,987; Nov. 9; Gaz. vol. 220; p. 671.
- Montz, George, Louisville, Ky. Soaps. No. 102,139; Jan. 26; Gaz. vol. 210; p. 1391.
- Moody, Julia H. V., New York, N. Y. Furniture-polish. No. 104,290; May 18; Gaz. vol. 214; p. 1021.
- Mooney, M. L., Shamrock, Tex. Liniments. No. 101,746; Jan. 12; Gaz. vol. 210; p. 709.
- Moonlight Bait Co., The, Paw Paw, Mich. Artificial fishing-bait. No. 101,965; Jan. 19; Gaz. vol. 210; p. 1061.
- Moore, John D., Covington, Tenn. Hair-tonic. No. 106,882; Nov. 2; Gaz. vol. 220; p. 345.
- Moore, M. L., Memphis, Tenn. Preparation for removing carbon from automobiles. No. 107,185; Nov. 16; Gaz. vol. 220; p. 1036.
- Moore and Preston, Fallston, Md. Poultry. No. 106,883; Nov. 2; Gaz. vol. 220; p. 345.
- Moran, John A., Kansas City, Mo. First aid or emergency cases. No. 105,071; July 6; Gaz. vol. 216; p. 822.
- Morgan, Field C., Claremont, N. H. Laxative pills. No. 104,741; June 15; Gaz. vol. 215; p. 972.
- Morgan, John H., Fresno, Cal. Cough-syrups. No. 105,860; Aug. 24; Gaz. vol. 217; p. 1335.
- Morgenstern, Nathan, Baltimore, Md. Salve remedy for sores, cuts, boils, felons, &c. No. 107,495; Dec. 7; Gaz. vol. 221; p. 346.
- Morey Mercantile Company, The. (See Struby-Estabrook Mercantile Company, The, assignor.)
- Morey Mercantile Company, Denver, Colo. Soap. No. 102,140; Jan. 26; Gaz. vol. 210; p. 1391.
- Morey Mercantile Company, Denver, Colo. Bluing, ammonia, and starch. No. 102,141; Jan. 26; Gaz. vol. 210; p. 1391.
- Morey Mercantile Company, Denver, Colo. Writing-tablets, wrapping and toilet paper, paper bags. No. 103,392; Mar. 30; Gaz. vol. 212; p. 1686.
- Morey Mercantile Company, The, Denver, Colo. Certain named soda-fountain syrups. No. 107,579; Dec. 14; Gaz. vol. 221; p. 731.
- Morice Twine Mills, Philadelphia, Pa. Twines and cordage. No. 107,725; Dec. 21; Gaz. vol. 221; p. 1036.
- Moritz Löw Fabrik Ätherischer oele, Essenzen und Farben, Hussowitz, near Brinn, Austria-Hungary. Certain juices, syrups, oils, and essences for use with beverages. No. 103,354; Mar. 30; Gaz. vol. 212; p. 1685.
- Morley & Co., Butte, Mont. Coffee-clarifier. No. 104,774; June 15; Gaz. vol. 215; p. 973.
- Morrill & Cohen Co., Chicago, Ill. Fresh sweet or Irish potatoes. No. 102,143; Jan. 26; Gaz. vol. 210; p. 1391.
- Morning Journal Association, New York, N. Y. Newspaper. No. 104,465; June 1; Gaz. vol. 215; p. 318.
- Morris Fiber Board Company, Morris, Ill. Folding paper boxes. No. 106,353; Oct. 19; Gaz. vol. 219; p. 922.
- Morris, John H., Roanoke, Va. Staurolitic hat and stick pins and watch-charms. No. 102,431; Feb. 9; Gaz. vol. 211; p. 636.
- Morris, Mann & Reilly, New York, N. Y. Certain named articles made of or plated with precious metal. No. 102,927; Mar. 2; Gaz. vol. 212; p. 324.
- Morris, Mann & Reilly, Chicago, Ill. Jewelry. No. 107,852; Dec. 28; Gaz. vol. 221; p. 1448.
- Morris & Morris, Baltimore, Md. Toilet cream. No. 102,688; Feb. 23; Gaz. vol. 211; p. 1255.
- Morrison, Charles W., New York, N. Y. Fireproof composition flooring and wainscoting. No. 102,575; Feb. 16; Gaz. vol. 211; p. 951.
- Morrison, William, Troy, N. Y. Hair, military, clothes, and hat brushes. No. 103,031; Mar. 16; Gaz. vol. 212; p. 1050.
- Morse, Arthur B., Indianapolis, Ind. Remedies for colds, headache, and la grippe. No. 105,502; July 27; Gaz. vol. 216; p. 1315.
- Morse, Asahel U., Kansas City, Mo. Toilet-paper. No. 105,861; Aug. 24; Gaz. vol. 217; p. 1335.
- Morse, Jacob S., Boston, Mass. Repaired type-writers. No. 107,524; Dec. 7; Gaz. vol. 221; p. 846.
- Morton Salt Company, Chicago, Ill. Salt. No. 103,357; Mar. 30; Gaz. vol. 212; p. 1685.
- Morton Salt Company, Chicago, Ill. Salt. Nos. 104,913-14; June 22; Gaz. vol. 215; p. 1259.
- Moss, Fred L., Chillicothe, Mo. Tooth cleansing and preserving preparation. No. 106,247; Oct. 19; Gaz. vol. 219; p. 918.
- Moss Rose Manufacturing Company, The, Philadelphia, Pa. Goods of fine sheer material for curtains, table-covers, and upholstery. No. 101,863; Jan. 12; Gaz. vol. 210; p. 713.
- Mosso, Bessie L., Chicago, Ill. Remedy for certain named diseases and ailments. No. 101,864; Jan. 12; Gaz. vol. 210; p. 713.
- Motion Picture Trade Directory Co., Inc., The, New York, N. Y. Periodical publication relating to moving-picture theaters, &c. No. 105,862; Aug. 24; Gaz. vol. 217; p. 1336.
- Motor Accessories, Incorporated, Boston, Mass. Lubricating-grease. No. 104,224; May 11; Gaz. vol. 214; p. 678.
- Motor and Gear Improvement Company, Wilmington, Del., and New York, N. Y. Wheels. No. 101,713; Jan. 5; Gaz. vol. 210; p. 396.
- Moulié, Eugène, San Diego, Cal. Perfumes and sachet-powder. No. 104,947; June 29; Gaz. vol. 215; p. 1493.
- Moulton, Julia M., Melrose, Mass. Tablets for the treatment of certain named diseases. Nos. 105,394-5; July 20; Gaz. vol. 216; p. 1009.
- Mount Vernon Company—Silversmiths, Inc., The, Mount Vernon, N. Y. Certain named ware and articles made of or plated with precious metal. No. 104,948; June 29; Gaz. vol. 215; p. 1493.
- Moyat, Ernst, Offenbach-on-the-Main, Germany. Artificial corundum. No. 106,248; Oct. 19; Gaz. vol. 219; p. 918.
- Moyer Manufacturing Company, Montevideo, Minn. Stanchions and metal farm-gates. No. 103,669; Apr. 13; Gaz. vol. 213; p. 740.
- Mt. Pleasant Fertilizer Company, Incorporated, Mount-pleasant, Tenn. Fertilizer. No. 102,144; Jan. 26; Gaz. vol. 210; p. 1391.
- Mt. Vernon Cream Co., Mount Vernon and Seattle, Wash. Canned evaporated milk. No. 104,627; June 8; Gaz. vol. 215; p. 662.
- Mueller, George, Salt Lake City, Utah. Bread. No. 104,026; Apr. 27; Gaz. vol. 213; p. 1442.
- Mueller-Keller Candy Co., St. Joseph, Mo. Candy. Nos. 105,072-6; July 6; Gaz. vol. 216; p. 322.
- Mueller-Keller Candy Co., St. Joseph, Mo. Candy. No. 106,884; Nov. 2; Gaz. vol. 220; p. 345.
- Mulcahy, Thomas J., Winthrop, Mass. Chewing-gum. No. 106,078; Oct. 5; Gaz. vol. 219; p. 267.
- Mulkey, John L. C., Detroit, Mich. Salt. No. 104,986; June 29; Gaz. vol. 215; p. 1495.
- Muller, Franklin R., Waukegan, Ill. Sanitary cement flooring and magnesite stucco. No. 103,110; Mar. 16; Gaz. vol. 212; p. 1052.
- Munder-Thomsen Company, Baltimore, Md. Certain prints and publications printed from types, plates, blocks, or stones. No. 102,717; Feb. 23; Gaz. vol. 211; p. 1256.
- "Mundus" Aktiengesellschaft der Vereinigten Oesterreichischen Bugholzmoebel-Fabriken ("Mundus" United Austrian Bent Wood Furniture Manufacturers Ltd.), Vienna, Austria-Hungary. Certain named furniture. No. 104,151; May 4; Gaz. vol. 214; p. 340.
- Murphy, Charles A. J., Philadelphia, Pa. Soothing and healing remedy for certain named ailments. No. 103,393; Mar. 30; Gaz. vol. 212; p. 1686.
- Murray, Frank T., Chicago, Ill., assignor to Qualitry Rubber Company. Rubber tires. No. 105,219; July 13; Gaz. vol. 216; p. 658.
- Murray, Frank T., assignor to Qualitry Rubber Company, Chicago, Ill. Rubber inner tubes. No. 105,443; July 27; Gaz. vol. 216; p. 1313.
- Murray, William J., Sausalito, Cal. Remedy for chills and fever. No. 104,742; June 15; Gaz. vol. 215; p. 972.
- Musher & Co., J., Washington, D. C. Tea. No. 103,592; Apr. 6; Gaz. vol. 213; p. 357.
- Mutual Coffee Co., Montgomery, Ala. Coffee compound composed of coffee, chicory, and cereal. Nos. 106,466-7; Oct. 19; Gaz. vol. 219; p. 925.
- Mutual Drug Co., Worcester, Mass. Medicines and medicinal preparations for certain named diseases and ailments. No. 102,718; Feb. 23; Gaz. vol. 211; p. 1256.

- Mutual Service Corporation, New York, N. Y. Fresh fruits and vegetables. No. 102,757; Feb. 23; Gaz. vol. 211; p. 1257.
- My-Coca Co., Birmingham, Ala. Carbonated non-alcoholic beverage. No. 102,576; Feb. 16; Gaz. vol. 211; p. 951.
- Myerson, Amson L., Philadelphia, Pa. Negligée shirts. No. 102,296; Feb. 2; Gaz. vol. 211; p. 280.
- Myself-Rollins Bank Note Company, The, San Francisco, Cal. Writing and printing paper. No. 107,807; Dec. 28; Gaz. vol. 221; p. 1447.
- Mysto Mfg. Co., The, New Haven, Conn. Toys. No. 104,352; May 25; Gaz. vol. 214; p. 1315.
- Mysto Mfg. Co., The, New Haven, Conn. Electric fans. No. 105,520; Aug. 3; Gaz. vol. 217; p. 335.
- N. Erlanger, Blumgart & Co., New York, N. Y. Cotton dress fabrics. No. 105,434; July 27; Gaz. vol. 216; p. 1313.
- N. K. Fairbank Company, The, Chicago, Ill., assignor to The N. K. Fairbank Company, Union township, near Guttenberg, N. J. Cooking compound containing cottonseed oil and oleo-stearin. No. 102,744; Feb. 23; Gaz. vol. 211; p. 1257.
- N. L. Birge Sons Company, The, Bristol, Conn. Certain named knitted underwear. No. 104,197; May 11; Gaz. vol. 214; p. 677.
- N. S. Ackerly & Son Company, Northport and Sayville, N. Y. Blue point oysters. No. 107,800; Dec. 28; Gaz. vol. 221; p. 1447.
- N. V. Fabriek Van Melkproducten "Excelsior." Woerden, Netherlands. Condensed milk. Nos. 104,666-7; June 1; Gaz. vol. 215; p. 318.
- N. V. Fabriek van Melkproducten "Excelsior." Woerden, Netherlands. Condensed milk. No. 105,259; July 13; Gaz. vol. 216; p. 659.
- N. V. Teteringsche Stoom-Lucifersfabriek v/h Dijkerman & Co., Breda, Netherlands. Matches. No. 107,525; Dec. 7; Gaz. vol. 221; p. 346.
- N. Y. International Chemical Co. Inc., New York, N. Y. Hair-tonics and toilet creams. No. 103,394; Mar. 30; Gaz. vol. 212; p. 1686.
- N. Y. International Chemical Co. Inc., New York, N. Y. Tonic laxatives. No. 106,172; Oct. 12; Gaz. vol. 219; p. 583.
- Naaml. Venn. "Excelsior" Fabriek Van Melkproducten, Woerden, Netherlands. Condensed milk. Nos. 104,468-70; June 1; Gaz. vol. 215; p. 318.
- Naaml. Venn. Fabriek van Melkproducten "Excelsior," Woerden, Netherlands. Condensed milk. No. 105,364; July 20; Gaz. vol. 216; p. 1008.
- Nafey, Catharine A., New Brunswick, N. J. Prepared piecrust. No. 102,145; Jan. 26; Gaz. vol. 210; p. 1391.
- Nagano, Shinsaku, Chicago, Ill. Sauces for seasoning foods. No. 105,919; Aug. 24; Gaz. vol. 217; p. 1337.
- Nagle Re Blade Knife Company, Inc., Poughkeepsie, N. Y. Knives and knife-blades. No. 104,839; June 22; Gaz. vol. 215; p. 1257.
- Nairn Linoleum Co., The, Kearny, N. J. Linoleums. No. 104,629; June 8; Gaz. vol. 215; p. 662.
- Nairn Linoleum Co., The, Kearney, N. J. Linoleums. No. 105,920; Aug. 24; Gaz. vol. 217; p. 1337.
- Napanoch Knife Company, Napanoch, N. Y. Certain named tools, cutlery, and parts thereof. No. 102,146; Jan. 26; Gaz. vol. 210; p. 1391.
- Naptha Washing Tablet Co., Chicago, Ill. Washing-tablets for cleaning, polishing, and washing. No. 107,743; Dec. 28; Gaz. vol. 221; p. 1445.
- Nashua Card Gummed & Coated Paper Company, Nashua, N. H. Paper wrappers for food products. No. 104,260; May 11; Gaz. vol. 214; p. 679.
- Nashua Manufacturing Company, Nashua, N. H. Cotton piece and dress goods. No. 103,715; Apr. 13; Gaz. vol. 213; p. 741.
- Nathan D. Dodge Shoe Co., Newburyport, Mass. Boots and shoes of leather, rubber, &c. No. 106,582; Oct. 26; Gaz. vol. 219; p. 1228.
- Nathan Manufacturing Company, New York, N. Y. Water-gages. No. 104,098; Apr. 27; Gaz. vol. 213; p. 1444.
- Nathan Manufacturing Company, New York, N. Y. Steam, check, and relief valves, gage-cocks, and strainers. No. 104,225; May 11; Gaz. vol. 214; p. 678.
- National Alfalfa Journal Company, Sioux Falls, S. D. Monthly periodical. No. 105,220; July 13; Gaz. vol. 216; p. 658.
- National Ammonia Company, The, St. Louis, Mo. Anhydrous ammonia. No. 102,432; Feb. 9; Gaz. vol. 211; p. 636.
- National Bath Powder Company, Fort Smith, Ark. Bath-powder. No. 104,471; June 1; Gaz. vol. 215; p. 318.
- National Belting Company, The, Elyria, Ohio. Rubber and fabric beltings. No. 103,395; Mar. 30; Gaz. vol. 212; p. 1686.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 102,758; Feb. 23; Gaz. vol. 211; p. 1257.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 103,730; Apr. 13; Gaz. vol. 213; p. 742.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 103,958-9; Apr. 20; Gaz. vol. 213; p. 1114.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 104,630-40; June 8; Gaz. vol. 215; p. 662.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 105,794-800; Aug. 17; Gaz. vol. 217; p. 1051.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 106,468; Oct. 19; Gaz. vol. 219; p. 925.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 106,789; Oct. 26; Gaz. vol. 219; p. 1234.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 106,885; Nov. 2; Gaz. vol. 220; p. 345.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 107,273; Nov. 16; Gaz. vol. 220; p. 1039.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 107,627; Dec. 14; Gaz. vol. 221; p. 732.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 107,853-4; Dec. 28; Gaz. vol. 221; p. 1448.
- National Building Supply Co., The, Baltimore, Md. Shingles. No. 106,065; Sept. 28; Gaz. vol. 218; p. 1153.
- National Can Co., Detroit, Mich. Tin cans and collapsible tubes. No. 104,099; Apr. 27; Gaz. vol. 213; p. 1444.
- National Candy Company, Jersey City, N. J., and St. Louis, Mo. Chocolate candy. No. 106,469; Oct. 19; Gaz. vol. 219; p. 925.
- National Candy Company, Jersey City, N. J., and St. Louis, Mo. Popcorn and popcorn confections. No. 106,790; Oct. 26; Gaz. vol. 219; p. 1234.
- National Carbon Company, Cleveland, Ohio. Dry cells. No. 101,865; Jan. 12; Gaz. vol. 210; p. 713.
- National Carbon Company, Cleveland, Ohio. Electric batteries. No. 103,069; Mar. 16; Gaz. vol. 212; p. 1051.
- National Carbon Company, Cleveland, Ohio. Electric batteries. No. 103,269; Mar. 23; Gaz. vol. 212; p. 1355.
- National Carbon Company, Cleveland, Ohio. Dry cells. No. 106,006; Sept. 14; Gaz. vol. 218; p. 599.
- National Carbon Company, Cleveland, Ohio. Dry batteries. No. 106,007; Sept. 14; Gaz. vol. 218; p. 599.
- National Carbon Company, Lakewood, Ohio. Dry-cell electric batteries. No. 102,147; Jan. 26; Gaz. vol. 210; p. 1391.
- National Chemical Company of California, Los Angeles, Cal. Liquid toilet soap. No. 102,980; Mar. 9; Gaz. vol. 212; p. 685.
- National Chemical Co., Syracuse, N. Y. Certain named laundry machines and appliances. No. 105,271; July 13; Gaz. vol. 216; p. 660.
- National City Bank of New York, New York, N. Y. Serial publications. No. 102,882; Feb. 23; Gaz. vol. 211; p. 1261.
- National Cloak & Suit Company, Central Valley and New York, N. Y. Dresses. No. 104,100; Apr. 27; Gaz. vol. 213; p. 1444.
- National Cloak & Suit Company, Central Valley and New York, N. Y. Sewing-machines. No. 107,083; Nov. 9; Gaz. vol. 220; p. 674.
- National Dollar Shirt Shops, Inc., New York, N. Y., and Los Angeles, Cal. Dress, negligée, work, and under shirts for men. No. 105,694; Aug. 10; Gaz. vol. 217; p. 696.
- National Enameling & Manufacturing Company, The, Youngstown, Ohio. Electrical conduits. No. 103,670; Apr. 13; Gaz. vol. 213; p. 740.
- National Enzyme Co. (Inc.), New York, N. Y. Enzymes. Nos. 106,354-6; Oct. 19; Gaz. vol. 219; p. 922.
- National Essence For Coffee Company, Philadelphia, Pa. Essence for coffee. No. 106,470; Oct. 19; Gaz. vol. 219; p. 925.
- National Essence For Coffee Company, Philadelphia, Pa. Essence and substitutes for coffee. No. 106,886; Nov. 2; Gaz. vol. 220; p. 345.
- National Floral Corporation, New York, N. Y. Growing plants, cut flowers, seeds, &c. No. 105,863; Aug. 24; Gaz. vol. 217; p. 1336.
- National Fruit Product Company, Inc., Alexandria, Va. Apple-cider vinegar. No. 104,641; June 8; Gaz. vol. 215; p. 662.
- National Fruit Products Company of California, Los Angeles, Cal. Non-alcoholic beverage. No. 102,336; Feb. 9; Gaz. vol. 211; p. 633.
- National Garter Company, Cincinnati, Ohio. Garters and armbands. No. 104,027; Apr. 27; Gaz. vol. 213; p. 1442.
- National Grocer Company, Detroit, Mich. Coffee. No. 102,719; Feb. 23; Gaz. vol. 211; p. 1256.
- National Grocery Company, Jersey City, N. J. Baking soda and powder, bluing, and ammonia. No. 104,472; June 1; Gaz. vol. 215; p. 318.
- National Grocery Company, Jersey City, N. J. Certain named foods. No. 106,117; Oct. 12; Gaz. vol. 219; p. 582.
- National Grocery Company, Jersey City, N. J. Washing fluid. No. 107,274; Nov. 16; Gaz. vol. 220; p. 1039.
- National Hair Goods Company, Chicago, Ill. Hair switches. No. 105,023; June 29; Gaz. vol. 215; p. 1496.

Alphabetical list of registrants of trade-marks—Continued.

- National Lock Washer Company, The, Newark, N. J. Nut-locks. No. 102,240; Jan. 26; Gaz. vol. 210; p. 1394.
- National Metal Seal Corporation, Boston, Mass. Metal closures for containing vessels. No. 105,408; July 20; Gaz. vol. 216; p. 1010.
- National Metal Weather Strip Co., Pittsburgh, Pa. Weather-strips. No. 102,149; Jan. 26; Gaz. vol. 210; p. 1391.
- National Motor Vehicle Co., Indianapolis, Ind. Automobile and gasoline engines and parts. No. 103,621; Apr. 6; Gaz. vol. 213; p. 357.
- National Oil Products Co., Harrison, N. J. Chemicals for rendering mineral oils emulsifiable. No. 103,323; Mar. 30; Gaz. vol. 212; p. 1684.
- National Oil & Supply Company, Newark, N. J. Automobile-soaps and metal-polishes. No. 102,433; Feb. 9; Gaz. vol. 211; p. 636.
- National Papeterie Company, Springfield, Mass. Printing and writing papers. No. 107,477; Dec. 7; Gaz. vol. 221; p. 345.
- National Pin Company, The, Derby, Conn. Headed wire pins for toilet and desk use. No. 104,226; May 11; Gaz. vol. 214; p. 678.
- National Refining Company, The, Cleveland, Ohio. Certain compound for covering and repairing roofs. No. 103,247; Mar. 23; Gaz. vol. 212; p. 1354.
- National Refining Company, Cleveland, Ohio. Lubricating-oil, gasoline, and axle-grease. No. 103,441; Apr. 6; Gaz. vol. 213; p. 352.
- National Refining Company, Cleveland, Ohio. Gasolene, kerosene, naphtha, &c. No. 103,859; Apr. 20; Gaz. vol. 213; p. 1111.
- National Refining Company, The, Cleveland, Ohio. Axle-grease. No. 104,152; May 4; Gaz. vol. 214; p. 340.
- National Remedy Company, Inc., New York, N. Y. Laxative syrup. No. 104,840; June 22; Gaz. vol. 215; p. 1257.
- National Roofing Company, The, Tonawanda, N. Y. Asphaltum cements. No. 102,720; Feb. 23; Gaz. vol. 211; p. 1256.
- National School Slate Company, Slatington, Pa. School-slates. No. 103,622; Apr. 6; Gaz. vol. 213; p. 357.
- National Sewing Machine Co., Belvidere, Ill. Sewing-machines. No. 104,227; May 11; Gaz. vol. 214; p. 678.
- National Sheet Metal Co., Peru, Ill. Match-boxes not of precious metal. No. 105,826; Aug. 17; Gaz. vol. 217; p. 1052.
- National Silver Plating Laboratories, New York, N. Y. Silver-plating preparation. No. 106,887; Nov. 2; Gaz. vol. 220; p. 345.
- National Starch Co., New York, N. Y. Laundry starch. No. 101,966; Jan. 19; Gaz. vol. 210; p. 1061.
- National Starch Co., New York, N. Y. Starch for laundry and manufacturing purposes. No. 105,695; Aug. 10; Gaz. vol. 217; p. 696.
- National Starch Co., New York, N. Y. Starch. No. 106,249; Oct. 19; Gaz. vol. 219; p. 918.
- National Starch Co., New York, N. Y. Corn-starch. No. 106,471; Oct. 19; Gaz. vol. 219; p. 925.
- National Starch Co., New York, N. Y. Corn-starch. No. 107,363; Nov. 23; Gaz. vol. 220; p. 1368.
- National Steel & Copper Plate Company, Chicago, Ill. Substitute for potassium iodid and iodine resublimed. No. 102,150; Jan. 26; Gaz. vol. 210; p. 1391.
- National Sugar Refining Company of New Jersey, The, Jersey City, N. J., and New York, N. Y. Hard sugar. No. 102,434; Feb. 9; Gaz. vol. 211; p. 636.
- National Tape Company, Inc., New York, N. Y. Tape. No. 103,565; Apr. 6; Gaz. vol. 213; p. 356.
- National Tea Importing Co., Salt Lake City, Utah. Certain named foods. No. 107,364; Nov. 23; Gaz. vol. 220; p. 1368.
- National Tire Company, The, Trenton, N. J. Rubber tires and tubes. No. 106,079; Oct. 5; Gaz. vol. 219; p. 267.
- National Tire & Rubber Company, The, East Palestine, Ohio. Automobile tire casings and tubes. No. 103,296; Mar. 30; Gaz. vol. 212; p. 1683.
- National Tire and Rubber Company, The, East Palestine, Ohio. Automobile tire casings and tubes. No. 103,671; Apr. 13; Gaz. vol. 213; p. 740.
- National Tube Company, Pittsburgh, Pa. Metal pipes, tubes, and casings. No. 102,635; Feb. 16; Gaz. vol. 211; p. 953.
- National Tube Company, Pittsburgh, Pa. Metal pipes, tubes, and casings. Nos. 104,881-2; June 22; Gaz. vol. 215; p. 1258.
- National Tube Company, Pittsburgh, Pa. Metal unions and pipe-fittings. No. 105,739; Aug. 17; Gaz. vol. 217; p. 1050.
- National Tube Company, Pittsburgh, Pa. Pipes and tubes. No. 106,118; Oct. 12; Gaz. vol. 219; p. 582.
- National Washboard Company, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Washboards. Nos. 103,471-549; Apr. 6; Gaz. vol. 213; pp. 353-5.
- National Washboard Company, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Washboards. No. 104,335; May 18; Gaz. vol. 214; p. 1022.
- National Water-Proofing Company, Philadelphia, Pa. Waterproof-paper case-linings. No. 103,070; Mar. 16; Gaz. vol. 212; p. 1051.
- Natural Fruit Co., Pennington, N. J. Meat sauces, salad-dressings, marmalades, and jellies. No. 107,084; Nov. 9; Gaz. vol. 220; p. 674.
- Natural Products Ref. Co., Jersey City, N. J. Bichromate of potash. Nos. 107,085-6; Nov. 9; Gaz. vol. 220; p. 674.
- Nave-McCord Mer. Co., St. Joseph, Mo. Roasted coffee. No. 102,577; Feb. 16; Gaz. vol. 211; p. 951.
- Nazarian, Moise, Cleveland, Ohio. Liniments. No. 101,747; Jan. 12; Gaz. vol. 210; p. 709.
- Neal, James A., et al., trustees. (See Eddy, Mary B. G.)
- Needham Tire Company, Needham, Mass. Rubber and rubber and canvas tires. No. 107,692; Dec. 21; Gaz. vol. 221; p. 1035.
- Neenah Paper Company, Neenah, Wis. Bonds and writing-paper. No. 107,693; Dec. 21; Gaz. vol. 221; p. 1035.
- Neenah Shoe Company, Neenah, Wis. Boots and shoes with specially-prepared composition sole. No. 105,696; Aug. 10; Gaz. vol. 217; p. 696.
- Neilson Brothers, Chicago, Ill. Imitation leather. No. 105,168; July 6; Gaz. vol. 216; p. 325.
- Nelrow Chemical Company, New York, N. Y. Treatment of dandruff and diseases of the scalp and skin. No. 106,472; Oct. 19; Gaz. vol. 219; p. 925.
- Nelson, Arthur, Vancouver, British Columbia, Canada. Tea. No. 101,967; Jan. 19; Gaz. vol. 210; p. 1061.
- Nelson, Baker & Co., Detroit, Mich. Ointments. No. 105,272; July 13; Gaz. vol. 216; p. 660.
- Nelson, Frank J., Hallock, Minn. Chemical preparation noxious to insects and vermin. No. 103,111; Mar. 16; Gaz. vol. 212; p. 1052.
- Nervisana Company, The, Chicago, Ill. Nerve remedy. No. 101,866; Jan. 12; Gaz. vol. 210; p. 713.
- Neue Photographische Gesellschaft, Aktiengesellschaft, Steglitz, near Berlin, Germany. Non-sensitized photographic papers. No. 101,714; Jan. 5; Gaz. vol. 210; p. 396.
- Neue Photographische Gesellschaft, Aktiengesellschaft, Steglitz, near Berlin, Germany. Certain named photographic supplies. No. 105,119; July 6; Gaz. vol. 216; p. 323.
- Neue Photographische Gesellschaft, Aktiengesellschaft, Steglitz, near Berlin, Germany. Certain named photographic apparatus and supplies. No. 106,473; Oct. 19; Gaz. vol. 219; p. 925.
- Neuman & Schwiers Co., Inc., The, New York, N. Y. Jams, jellies, and marmalades. No. 102,536; Feb. 9; Gaz. vol. 211; p. 639.
- Neuss, Hesslein & Co., New York, N. Y. Woven cotton plaids. No. 105,444; July 27; Gaz. vol. 216; p. 1313.
- Neuss, Hesslein & Co., New York, N. Y. Woven cotton plaids. No. 106,008; Sept. 14; Gaz. vol. 218; p. 599.
- Neustadter Bros., San Francisco, Cal. Overalls. No. 106,791; Oct. 26; Gaz. vol. 219; p. 1234.
- New Century Company, The, Chicago, Ill. White flour made from spring and winter wheats. No. 107,496; Dec. 7; Gaz. vol. 221; p. 346.
- New England Biscuit Company, Worcester, Mass. Crackers and biscuits. No. 104,565; June 1; Gaz. vol. 215; p. 321.
- New England Coal & Coke Company, Boston, Mass. Coal. No. 104,228; May 11; Gaz. vol. 214; p. 678.
- New England Electric Company, Denver, Colo. Key and keyless pendent and wall sockets. No. 101,968; Jan. 19; Gaz. vol. 210; p. 1061.
- New England Enameling Company, The, Middletown, Conn. Enameled and aluminum ware. No. 106,792; Oct. 26; Gaz. vol. 219; p. 1234.
- New England Fibre Blanket Company, Worcester, Mass. Blankets for printing-presses. No. 105,120; July 6; Gaz. vol. 216; p. 323.
- New England Laboratory Co., Lynn, Mass. Cold-cream. No. 104,101; Apr. 27; Gaz. vol. 213; p. 1444.
- New England Laboratory Co., Lynn, Mass. Tooth-paste. No. 104,102; Apr. 27; Gaz. vol. 213; p. 1444.
- New Era Novelty Co., Inc., The, New York, N. Y. Dolls. No. 106,474; Oct. 19; Gaz. vol. 219; p. 925.
- New Era Novelty Co., Inc., The, New York, N. Y. Dolls and toy vehicles. No. 107,365; Nov. 23; Gaz. vol. 220; p. 1368.
- New Era Remover Company, Newark, N. J. Paint or varnish removers and the like. No. 106,475; Oct. 19; Gaz. vol. 219; p. 925.
- New Haven Clock Co., The, New Haven, Conn. Clocks. No. 107,855; Dec. 28; Gaz. vol. 221; p. 1448.
- New Haven Gas Light Company, New Haven, Conn. Bituminous binder for waterproof and other flooring and roof-coating. No. 107,186; Nov. 16; Gaz. vol. 220; p. 1036.
- New Life Massage Co., Inc., Brooklyn, N. Y. Vacuum massage-machines. No. 106,476; Oct. 19; Gaz. vol. 219; p. 925.
- New Orleans Coffee Co., Ltd., New Orleans, La. Coffee. No. 107,580; Dec. 14; Gaz. vol. 221; p. 731.
- New Orleans Fruit Importing Co., New Orleans, La. Olive-oil. No. 103,112; Mar. 16; Gaz. vol. 212; p. 1052.
- New Orleans Import Co., Ltd., New Orleans, La. Tea. No. 105,801; Aug. 17; Gaz. vol. 217; p. 1051.

- New-Tone Company, The, Chicago, Ill. Blood and laxative tablets, face-powder, &c. No. 106,988; Nov. 9; Gaz. vol. 220; p. 671.
- New Wooster Preserving Co., The, Wooster, Ohio. Catsup, jells, jams, apple-butter, &c. No. 101,969; Jan. 19; Gaz. vol. 210; p. 1061.
- New Wooster Preserving Co., The, Wooster, Ohio. Certain named foods. No. 106,119; Oct. 12; Gaz. vol. 219; p. 582.
- New York Athletic Club of the City of New York, The, New York, N. Y. Coats, sweaters, shirts, underwear, caps, and hats. No. 103,789; Apr. 13; Gaz. vol. 213; p. 743.
- New York Belting & Packing Company, New York, N. Y. Sheet-rubber machinery packing. No. 101,970; Jan. 19; Gaz. vol. 210; p. 1061.
- New York Clay Products Co., Van Deventers, N. J., and New York, N. Y. Hollow-tile building-blocks. No. 105,864; Aug. 24; Gaz. vol. 217; p. 1336.
- New York Clay Products Company, Van Deventers, N. J., and New York, N. Y. Hollow-tile building-blocks. No. 106,061; Sept. 21; Gaz. vol. 218; p. 873.
- New York Couch Bed Co., New York, N. Y. Beds, bed springs and mattresses, and material therefor. No. 104,061; Apr. 27; Gaz. vol. 213; p. 1443.
- New York Lubricating Oil Company, New York, N. Y. Lubricating greases and oils for machinery, motors, &c. No. 106,793; Oct. 26; Gaz. vol. 219; p. 1234.
- New York Mackintosh Clothing Co., The, Mamaroneck, N. Y. Rubber surgical blankets, hot-water bottles, syringes, &c. No. 105,445; July 27; Gaz. vol. 216; p. 1313.
- New York Merchandise Co., New York, N. Y. Hair-nets. No. 106,477; Oct. 19; Gaz. vol. 219; p. 925.
- New York Motion Picture Corporation, New York, N. Y. Moving-picture films. No. 107,856; Dec. 28; Gaz. vol. 221; p. 1449.
- Newman, Julius C., Cleveland, Ohio. Cigars. No. 107,497; Dec. 7; Gaz. vol. 221; p. 346.
- Newton Manufacturing Company, Inc., Lynbrook, N. Y. Flush switches and receptacles, door, &c., switches. No. 106,657; Oct. 26; Gaz. vol. 219; p. 1230.
- Newton Tea & Spice Co., The, Cincinnati, Ohio. Flavoring extracts for foods. No. 106,066; Sept. 28; Gaz. vol. 218; p. 1153.
- Newtown Cut Wheat Cereal and Trading Company, Newtown, Pa. Wheat cereal breakfast food. No. 105,468; July 27; Gaz. vol. 216; p. 1314.
- Niagara Chocolate Company. (See Plate, Ferdinand, assignor.)
- Niagara Searchlight Company, Inc., Niagara Falls, N. Y. Electric hand-lamps or search-lights. No. 105,221; July 13; Gaz. vol. 216; p. 658.
- Nice, Eugene E., Philadelphia, Pa. Certain named paints and painters' supplies. No. 104,775; June 15; Gaz. vol. 215; p. 973.
- Nice, Eugene E., Philadelphia, Pa. Certain named paints and painters' materials. No. 106,888; Nov. 2; Gaz. vol. 220; p. 345.
- Nicholas, George H., New York, N. Y. Shirts, shirt-waists, and blouses. No. 104,687; June 8; Gaz. vol. 215; p. 664.
- Nicholas Power Company, New York, N. Y. Motion-picture-projection machines and parts thereof. No. 103,823; Apr. 13; Gaz. vol. 213; p. 744.
- Nichols, George H., New York, N. Y. Negligée and work shirts. No. 104,191; May 4; Gaz. vol. 214; p. 341.
- Nicolas, Cecile, New York, N. Y. Ladies' dresses. No. 103,623; Apr. 6; Gaz. vol. 213; p. 358.
- Niederman, Simon, Philadelphia, Pa. Men's and women's leather boots and shoes. No. 105,921; Aug. 24; Gaz. vol. 217; p. 1337.
- Niehoff, Henry, Bayonne, N. J. Egg-tester. No. 102,578; Feb. 16; Gaz. vol. 211; p. 951.
- Nihon Natsubo Kabushiki Kaisha, Yokohama, Japan. Braided hats. No. 106,794; Oct. 26; Gaz. vol. 219; p. 1234.
- Niles Tool Works Company, The, New York, N. Y. Certain named machinery and tools. No. 103,566; Apr. 6; Gaz. vol. 213; p. 356.
- Nith Chemical Co., Lawrence, Kans. Liquid antiseptic deodorizer and external application for relief of inflammations. No. 105,900; Aug. 24; Gaz. vol. 217; p. 1337.
- Nitrate Agencies Company, New York, N. Y. Fertilizers. No. 101,971; Jan. 19; Gaz. vol. 210; p. 1061.
- Nitta, Chojiro, Nanba, Minami-Ku, Osaka, Japan. Leather belting. No. 104,776; June 15; Gaz. vol. 215; p. 973.
- No-Vary Products Co., Minneapolis, Minn. Certain named foods. No. 107,581; Dec. 14; Gaz. vol. 221; p. 731.
- Noack, Erich, Clinton, N. J. Cigars, cigarettes, and cheroots. No. 103,960; Apr. 20; Gaz. vol. 213; p. 1114.
- Noble, Jane S., Washington, D. C. Preparation for invigorating the scalp and developing the growth of the hair. No. 103,961; Apr. 20; Gaz. vol. 213; p. 1114.
- Nonotuck Silk Company, Northampton, Mass. Crochet-cotton. No. 106,658; Oct. 26; Gaz. vol. 219; p. 1230.
- Nordiska Kullager Aktiebolaget, Göteborg, Sweden. Ball-bearings. No. 106,659; Oct. 26; Gaz. vol. 219; p. 1230.
- Norfolk Packing Co., Norfolk, Nebr. Canned vegetables. No. 102,928; Mar. 2; Gaz. vol. 212; p. 324.
- Norfolk Packing Co., Norfolk, Nebr. Canned vegetables. Nos. 103,567-8; Apr. 6; Gaz. vol. 213; p. 356.
- Norma Company of America, The, New York, N. Y. Balls and rollers of steel or other metals and parts thereof. No. 107,498; Dec. 7; Gaz. vol. 221; p. 346.
- Norma Company of America, The, New York, N. Y. Defined instruments of precision and parts thereof. No. 107,499; Dec. 7; Gaz. vol. 221; p. 346.
- Norma Company of America, The, New York, N. Y. Certain named grinding, turning, and polishing machines. No. 107,500; Dec. 7; Gaz. vol. 221; p. 346.
- Norma Company of America, The, New York, N. Y. Ball and roller bearings and their parts. No. 107,501; Dec. 7; Gaz. vol. 221; p. 346.
- Norma Company of America, The, New York, N. Y. Internal grinding-spindles. No. 107,502; Dec. 7; Gaz. vol. 221; p. 346.
- Norman, Jeff. D., Loraine, Tex. Receipts for the preparation of medical compounds for treating certain diseases of man and beast. No. 103,569; Apr. 6; Gaz. vol. 213; p. 356.
- Norris, John, Canon City, Colo. Rheumatism-liniment. No. 106,054; Sept. 21; Gaz. vol. 218; p. 873.
- Norsk Hydro-Elektrisk Kvaestofaktieselskab, Christiania and Notodden, Norway. Certain named explosives. No. 102,337; Feb. 9; Gaz. vol. 211; p. 633.
- North Adams Wholesale Co., North Adams, Mass. Wheat-flour. No. 107,087; Nov. 9; Gaz. vol. 220; p. 674.
- North American Construction Co., Bay City, Mich. Ready-cut buildings and parts thereof. No. 105,222; July 13; Gaz. vol. 216; p. 658.
- North American Construction Company, Bay City, Mich. Knockdown houses. No. 103,962; Apr. 20; Gaz. vol. 213; p. 1114.
- North American Mercantile Co., San Francisco, Cal. Matches. No. 104,883; June 22; Gaz. vol. 215; p. 1258.
- North Bro's Mfg Co., Philadelphia, Pa. Drills, vises, and tap-wrenches. No. 102,435; Feb. 9; Gaz. vol. 211; p. 636.
- North Carolina Lumber Co., Lake Waccamaw, N. C. Shingles. No. 104,229; May 11; Gaz. vol. 214; p. 678.
- North Vernon Lumber Co., North Vernon, Ind. Swings, particularly porch-swings. No. 105,446; July 27; Gaz. vol. 216; p. 1313.
- Northern Light Milling Co., Owatonna, Minn. Wheat and barley breakfast food. No. 102,579; Feb. 16; Gaz. vol. 211; p. 951.
- Northern Light Milling Co., Owatonna, Minn. Pancake-flour. No. 105,922; Aug. 24; Gaz. vol. 217; p. 1337.
- Northern Refrigerator Company, Grand Rapids, Mich. Refrigerators. No. 103,910; Apr. 20; Gaz. vol. 213; p. 1113.
- Northern Shoe Company, Duluth, Minn. Leather, rubber, and canvas shoes. No. 101,867; Jan. 12; Gaz. vol. 210; p. 713.
- Northfield Iron Company, Northfield, Minn. Shapes, bars, and sheets of metal. No. 104,261; May 11; Gaz. vol. 214; p. 679.
- Northfield Seed & Nursery Company, Northfield, Minn. Seeds. Nos. 102,721-3; Feb. 23; Gaz. vol. 211; p. 1256.
- Northrup, King & Co., Minneapolis, Minn. Seeds. No. 104,566; June 1; Gaz. vol. 215; p. 321.
- Northrup, King & Co., Minneapolis, Minn. Seeds. No. 105,447; July 27; Gaz. vol. 216; p. 1313.
- Northrup, King & Co., Minneapolis, Minn. Chick-meal. No. 107,631; Dec. 14; Gaz. vol. 221; p. 732.
- Northwest Farm Press Co., The, Seattle, Wash. Monthly publication. No. 106,357; Oct. 19; Gaz. vol. 219; p. 922.
- Northwest Fruit Products Co., Salem, Oreg. Non-alcoholic beverage. No. 107,558; Dec. 7; Gaz. vol. 221; p. 347.
- Northwestern Bedding and Manufacturing Co., St. Paul, Minn. Mattresses and bedsteads. No. 106,009; Sept. 14; Gaz. vol. 218; p. 599.
- Northwestern Chemical Company, The, Marietta, Ohio. Hand-soap for removing grease and dirt. No. 104,103; Apr. 27; Gaz. vol. 213; p. 1444.
- Northwestern Expanded Metal Company, Chicago, Ill. Expanded-metal lathing. No. 102,153; Jan. 26; Gaz. vol. 210; p. 1391.
- Northwestern Expanded Metal Company, Chicago, Ill. Expanded-metal lathing. Nos. 104,642-3; June 8; Gaz. vol. 215; p. 662.
- Northwestern Knitting Company, The, Minneapolis, Minn. Knitted union suits. No. 105,668; Aug. 10; Gaz. vol. 217; p. 696.
- Northwestern Yeast Company, Chicago, Ill. Yeast. Nos. 102,154-5; Jan. 26; Gaz. vol. 210; p. 1391.
- Norwalk Vault Company, The, Norwalk, Ohio. Cement burial-vaults. No. 106,358; Oct. 19; Gaz. vol. 219; p. 922.
- Norwich Pharmacal Company, The, Norwich, N. Y. Medicinal tonics. No. 105,321; July 20; Gaz. vol. 216; p. 1007.
- Nosworthy, Arthur, Brooklyn, N. Y. Portable racks adapted for indoor clothes-driers. No. 104,950; June 29; Gaz. vol. 215; p. 1493.
- Novagem Jewel Company, San Francisco, Cal. Certain named articles of jewelry. No. 106,250; Oct. 19; Gaz. vol. 219; p. 918.
- Novaro, Agostino, Oneglia, Italy. Pure olive-oils. No. 106,080; Oct. 5; Gaz. vol. 219; p. 267.
- Novelty Hosiery Company, Allentown, Pa. Hosiery. No. 102,436; Feb. 9; Gaz. vol. 211; p. 636.

Alphabetical list of registrants of trade-marks—Continued.

- Novelty Knitting Mills, Philadelphia, Pa. Ladies' knitted vests, (outer garments.) No. 101,715; Jan. 5; Gaz. vol. 210; p. 396.
- Novelty News Co., The, Chicago, Ill. Monthly trade magazines. No. 105,605; Aug. 10; Gaz. vol. 217; p. 694.
- Noyes Bros. & Cutler, St. Paul, Minn. Spectacles. No. 102,615; Feb. 16; Gaz. vol. 211; p. 953.
- Noyes Comb Company, Binghamton, N. Y. Toilet-combs. No. 102,581; Feb. 16; Gaz. vol. 211; p. 952.
- Nu-Iron Mfg. Co., assignor to R. O. Stallsmith, York, Pa. Liquid preparation for worn castings or cast-iron to make them look like new. No. 104,230; May 11; Gaz. vol. 214; p. 678.
- Nu-Life Remedy Co., Columbus, Ohio. Treatment for asthma. No. 107,088; Nov. 9; Gaz. vol. 220; p. 674.
- Nulty, James T., Philadelphia, Pa. Preparation for the treatment of affected eyes. No. 106,251; Oct. 19; Gaz. vol. 219; p. 919.
- Nunes, Mary J., Tonopah, Nev. External remedies for the treatment of certain named ailments. No. 104,502; June 1; Gaz. vol. 215; p. 319.
- Nuss Confectionery Co., Cincinnati, Ohio. Candy. No. 104,806; June 15; Gaz. vol. 215; p. 974.
- Nutro Baking Company, Los Angeles, Cal. Bread. No. 106,889; Nov. 2; Gaz. vol. 220; p. 345.
- Nutto Product Co., The, Inc., New York, N. Y. Nut pastes. Nos. 103,113-15; Mar. 16; Gaz. vol. 212; p. 1052.
- Nuyts, Paul E. E., Roubaix, France. Combined tooth-brushes and dental instruments. No. 106,010; Sept. 14; Gaz. vol. 218; p. 599.
- Nyal Company, Detroit, Mich. Certain named medical and surgical appliances. No. 103,790; Apr. 13; Gaz. vol. 213; p. 743.
- Nyal Company, Detroit, Mich. Alternative mixture, tonic, and laxative. No. 106,478; Oct. 19; Gaz. vol. 219; p. 925.
- Nybakker, Dirk, New York, N. Y. Medicated plaster. No. 106,171; Oct. 12; Gaz. vol. 219; p. 583.
- O-Do-Cure Toilet Company, Chicago, Ill. Toilet water. No. 103,911; Apr. 20; Gaz. vol. 213; p. 1113.
- O. C. Hansen Mfg. Company, Milwaukee, Wis. Mitts and gloves. No. 104,977; June 29; Gaz. vol. 215; p. 1494.
- O. F. Jordan Company, The, East Chicago, Ind. Railway spreaders, snow-plows, and flangers. No. 106,158; Oct. 12; Gaz. vol. 219; p. 583.
- O. L. E. A. Olivicoltori Liguri ed Esportatori Associati, Oneglia, Italy. Olive-oil. No. 106,660; Oct. 26; Gaz. vol. 219; p. 1230.
- O. P. Schriver Company, The, Cincinnati, Ohio. Cistern and well pumps. No. 105,448; July 27; Gaz. vol. 216; p. 1313.
- O'Brien and Edmonds, Philadelphia, Pa. Cigars, cheroots, stogies, cigarettes, tobacco. No. 106,661; Oct. 26; Gaz. vol. 219; p. 1230.
- O'Brien, Michael, Detroit, Mich. Whisky. No. 104,743; June 15; Gaz. vol. 215; p. 972.
- O'Brien Varnish Co., The, South Bend, Ind. Ready-mixed washable flat wall waterproof coating. No. 104,567; June 1; Gaz. vol. 215; p. 321.
- O'Brien, William M., Salt Lake City, Utah. Pharmaceutical preparation for toilet and medical purposes. No. 106,890; Nov. 2; Gaz. vol. 220; p. 345.
- O'Callaghan & Fedden, New York, N. Y. Stockings. No. 102,582; Feb. 16; Gaz. vol. 211; p. 952.
- O'Connell, John J., Lynn, Mass. Leather slippers. No. 102,929; Mar. 2; Gaz. vol. 212; p. 324.
- O'Dell, John C., Rome, Ga. Non-alcoholic carbonated flavored beverage and syrup for making same. No. 103,326; Mar. 30; Gaz. vol. 212; p. 1684.
- O'Grady, John H., Chicago, Ill. Medicinal compound for treating certain named diseases. No. 105,987; Sept. 7; Gaz. vol. 218; p. 317.
- O'Toole, James J., Evansville, Ind. Electric fans. No. 105,802; Aug. 17; Gaz. vol. 217; p. 1051.
- Oakes Candy Co., St. Louis, Mo. Candy, ice-cream and ices, salted nuts, bread, and cakes. No. 107,559; Dec. 7; Gaz. vol. 221; p. 348.
- Oakley, Washburne F., Minneapolis, Minn. Oil-polish for wood, leather, and other non-metallic surfaces. No. 104,353; May 25; Gaz. vol. 214; p. 1315.
- Oakley, Washburne F., Minneapolis, Minn. Liquid insecticide, germicide, disinfectant, and deodorizer. No. 107,129; Nov. 9; Gaz. vol. 220; p. 675.
- Oakville Company, Waterbury, Conn. Safety-pins. No. 106,989; Nov. 9; Gaz. vol. 220; p. 671.
- Oakwood China Co., The, Chester, W. Va., and East Liverpool, Ohio. Dinnerware, vases, and jardinières. No. 102,759; Feb. 23; Gaz. vol. 211; p. 1258.
- Obermeyer & Liebmman, Brooklyn, N. Y. Beer, ale, and porter. No. 102,808; Feb. 23; Gaz. vol. 211; p. 1259.
- Obermeyer & Liebmman, Brooklyn and New York, N. Y. Beer. No. 103,358; Mar. 30; Gaz. vol. 212; p. 1685.
- Ocean Shore Canning Co., San Francisco, Cal. Canned vegetables. No. 103,325; Mar. 30; Gaz. vol. 212; p. 1684.
- Odell Manufacturing Company, Lewiston, Me.; Groveton, N. H., and New York, N. Y. Writing, wrapping, envelop, &c., paper. No. 102,437; Feb. 9; Gaz. vol. 211; p. 636.
- Oden and Son, Hawarden, Iowa. Hog-cholera compound. No. 107,188; Nov. 16; Gaz. vol. 220; p. 1036.
- Offenberg, Morris, Pittsburgh, Pa. Preparation used for the reduction and emulsification of essential oils for manufacturing flavoring extracts. No. 101,791; Jan. 12; Gaz. vol. 210; p. 711.
- Offutt, Mary P., New York, N. Y. Glass drinking-cup. No. 103,701; Apr. 13; Gaz. vol. 213; p. 741.
- Ogden Packing & Provision Co., Ogden, Utah. Smoked and boiled hams, bacon. No. 106,990; Nov. 9; Gaz. vol. 220; p. 671.
- Ogden Packing & Provision Co., Ogden, Utah. Lard, bacon, hams, boiled hams, canned and fresh fruits. No. 107,582; Dec. 14; Gaz. vol. 221; p. 731.
- Ogden Portland Cement Co., The, Ogden, Utah. Portland cement. No. 104,568; June 1; Gaz. vol. 215; p. 321.
- Ohio Butterine Co., The, Cincinnati, Ohio. Oleomargarin. No. 107,366; Nov. 23; Gaz. vol. 220; p. 1368.
- Ohio Dairy Company, The, Toledo, Ohio. Butter, ice cream, and milk. No. 107,089; Nov. 9; Gaz. vol. 220; p. 674.
- Ohio Match Company, The, Wadsworth, Ohio. Matches. No. 106,662; Oct. 26; Gaz. vol. 219; p. 1230.
- Ohio Saturday Night Publishing Company, The, Columbus, Ohio. Weekly newspaper. No. 107,632; Dec. 14; Gaz. vol. 221; p. 732.
- Ohio Truss Co., The, Cincinnati, Ohio. Abdominal supporters and bandages, trusses, and suspensories. No. 106,479; Oct. 19; Gaz. vol. 219; p. 925.
- Ohio Truss Co., The, Cincinnati, Ohio. Jockey-straps. No. 107,189; Nov. 16; Gaz. vol. 220; p. 1036.
- Okada & Ichida Company, San Francisco, Cal. Rice and dried beans. No. 105,669; Aug. 10; Gaz. vol. 217; p. 696.
- Okomo Soap Company, Inc., New York, N. Y. Soaps and cleansing-powders. No. 103,593; Apr. 6; Gaz. vol. 213; p. 357.
- Old Buck Guano Co., Inc., Richmond, Va. Fertilizers. No. 106,174; Oct. 12; Gaz. vol. 219; p. 583.
- Old Dutch Market, Washington, D. C., and Alexandria, Va. Butter. Nos. 106,480-2; Oct. 19; Gaz. vol. 219; p. 926.
- Old Dutch Market, Washington, D. C., and Alexandria, Va. Bread. No. 106,483; Oct. 19; Gaz. vol. 219; p. 926.
- Old Dutch Market, Washington, D. C., and Alexandria, Va. Eggs. No. 106,484; Oct. 19; Gaz. vol. 219; p. 926.
- Old Dutch Market, Washington, D. C., and Alexandria, Va. Hams and bacon. No. 106,891; Nov. 2; Gaz. vol. 220; p. 345.
- Old Dutch Market, Washington, D. C., and Alexandria, Va. Breakfast cereals. No. 107,762; Dec. 28; Gaz. vol. 221; p. 1446.
- Old Dutch Market, Washington, D. C., and Alexandria, Va. Lard. No. 107,763; Dec. 28; Gaz. vol. 221; p. 1446.
- Old Victoria Distillery, Chicago, Ill. Whisky. No. 107,190; Nov. 16; Gaz. vol. 220; p. 1036.
- Olds Products Co., The, Chicago, Ill. Mustard, mustard catsup, salad-dressing, &c. No. 105,322; July 20; Gaz. vol. 216; p. 1007.
- Olivier, Pierre, Lake Charles, La. Preparation for treatment of lungs, consumption, pneumonia, &c. No. 103,912; Apr. 20; Gaz. vol. 213; p. 1113.
- Olmsted-Flint Company, Cambridge, Mass. Waterproofing compound for leather and leather belting. No. 106,359; Oct. 19; Gaz. vol. 219; p. 922.
- Olmsted Flint Company, Cambridge, Mass. Leather belting. Nos. 106,991-2; Nov. 9; Gaz. vol. 220; p. 671.
- Olympia Games Company. (See Raster, Walther, assignor.)
- Omaha Cold Storage Company, Omaha, Nebr. Butter. No. 105,901; Aug. 24; Gaz. vol. 217; p. 1337.
- Omin Co., New York, N. Y. Nerve-tonic. No. 107,434; Nov. 23; Gaz. vol. 220; p. 1371.
- Omo Manufacturing Company, The, Middletown, Conn. Dress-shields. No. 102,156; Jan. 26; Gaz. vol. 210; p. 1391.
- Omo Manufacturing Company, The, Middletown, Conn. Dress-shields. No. 106,663; Oct. 26; Gaz. vol. 219; p. 1230.
- Onalaska Pickle & Canning Co., Onalaska, Wis. Canned vegetables and baked beans. No. 102,810; Feb. 23; Gaz. vol. 211; p. 1259.
- Oneida Community, Limited, Oneida, N. Y. Animal-traps. No. 101,646; Jan. 5; Gaz. vol. 210; p. 394.
- Oneida Community, Limited, Oneida, N. Y. Certain named plated precious-metal ware. No. 106,993; Nov. 9; Gaz. vol. 220; p. 671.
- Oneida Community, Limited, Oneida, N. Y. Animal-traps. No. 107,090; Nov. 9; Gaz. vol. 220; p. 674.
- Oneida Community, Limited, Oneida, N. Y. Preserves and conserves. No. 107,367; Nov. 23; Gaz. vol. 220; p. 1369.
- Oneida Community, Limited, Oneida, N. Y. Watches and clocks. No. 107,715; Dec. 21; Gaz. vol. 221; p. 1036.
- Onondaga Pottery Company, Syracuse, N. Y. China tableware and ornamental chinaware. Nos. 104,744-5; June 15; Gaz. vol. 215; p. 972.
- Onondaga Pottery Company, Syracuse, N. Y. China tableware and ornamental chinaware. No. 106,360; Oct. 19; Gaz. vol. 219; p. 922.

- Onyx Oil & Chemical Co., Jersey City, N. J. Chemical product for finishing and filler for fabrics, &c. No. 107,526; Dec. 7; Gaz. vol. 221; p. 347.
- Openhym & Sons, Wm., New York, N. Y. Ribbons. No. 106,485; Oct. 19; Gaz. vol. 219; p. 926.
- Operators' Piano Co., The, Chicago, Ill. Piano-players, self-playing pianos, orchestrions, &c. No. 104,473; June 1; Gaz. vol. 215; p. 318.
- Oppenheim, Oberndorf & Co., Baltimore, Md. Undershirts, drawers, union suits, &c. No. 106,486; Oct. 19; Gaz. vol. 219; p. 926.
- Oppel, Louis, Paterson, N. J. Salves. No. 105,121; July 6; Gaz. vol. 216; p. 323.
- Oracle Tobacco Company, San Diego, Cal. Cigarettes, cigars, and tobacco. No. 102,811; Feb. 23; Gaz. vol. 211; p. 1259.
- Orange Blossom, Inc., San Francisco, Cal. Candy. No. 103,032; Mar. 16; Gaz. vol. 212; p. 1050.
- Organic Products Company, Brooklyn, N. Y. A restorative liquid-preparation remedy and a tonic. No. 104,104; Apr. 27; Gaz. vol. 213; p. 1444.
- Orient Spray Co., Boston, Mass. Liquid disinfectant, deodorizer, &c. No. 106,892; Nov. 2; Gaz. vol. 220; p. 345.
- Oriental and Occidental Medical Company, Seattle and Ellensburg, Wash. Medicines for treating certain named diseases. No. 102,981; Mar. 9; Gaz. vol. 212; p. 685.
- Original Sample Cloak & Suit Company, Cincinnati, Ohio. Women's coats, dresses, outer suits and skirts, &c. No. 105,697; Aug. 10; Gaz. vol. 217; p. 696.
- Orona Mfg. Co., Boston, Mass. Soaps and cleansing preparations. No. 101,868; Jan. 12; Gaz. vol. 210; p. 713.
- Orona Mfg. Co., Boston, Mass. Metal-polishes. Nos. 105,865-6; Aug. 24; Gaz. vol. 217; p. 1336.
- Osage Cotton Oil Company, Chattanooga, Tenn., and Kansas City, Mo. Cotton-seed stock food. No. 106,994; Nov. 9; Gaz. vol. 220; p. 671.
- Osgood, Whitman, Washington, D. C. Weekly newspaper. No. 105,606; Aug. 10; Gaz. vol. 217; p. 694.
- Oshinsky & Valentine, New York, N. Y. Shirts, night-shirts, and pajamas. No. 103,176; Mar. 16; Gaz. vol. 212; p. 1054.
- Oshkosh Trap & Novelty Co., Oshkosh, Wis. Animal-traps. No. 104,474; June 1; Gaz. vol. 215; p. 318.
- Osius, Frederick, Muskegon, Mich. Dental vulcanite. No. 106,995; Nov. 9; Gaz. vol. 220; p. 671.
- Osterman, Martin, Jamestown, N. Y. Toilet soap. No. 104,291; May 18; Gaz. vol. 214; p. 1021.
- Ostrander & Company, Inc., New York, N. Y. Gingham. No. 106,664; Oct. 26; Gaz. vol. 219; p. 1230.
- Ostrander & Company, Inc., New York, N. Y. Cotton piece goods. No. 106,893; Nov. 2; Gaz. vol. 220; p. 345.
- Oswald Jaeger Baking Co., Milwaukee, Wis. Bread. No. 104,454; June 1; Gaz. vol. 215; p. 317.
- Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Elevators, escalators, inclined railways, blast-furnace hoists, &c. No. 107,369; Nov. 23; Gaz. vol. 220; p. 1369.
- Otto Weiss Alfalfa Stock Food Co., The, Wichita, Kans. Pancake-flour. No. 105,092; July 6; Gaz. vol. 216; p. 322.
- Ouerbacker Coffee Co., The, Louisville, Ky. Roasted coffee. Nos. 104,028-9; Apr. 27; Gaz. vol. 213; p. 1442.
- Ouerbacker Coffee Co., The, Louisville, Ky. Roasted coffee and rice. No. 104,292; May 18; Gaz. vol. 214; p. 1021.
- Ouerbacker Coffee Co., The, Louisville, Ky. Roasted coffee. No. 104,569; June 1; Gaz. vol. 215; p. 321.
- Oulliber Coffee Company, Inc., New Orleans, La. Coffee. Nos. 107,091-2; Nov. 9; Gaz. vol. 220; p. 674.
- Our Art Department, Inc., Chicago, Ill. Art reproductions and facsimile oil-paintings. No. 107,093; Nov. 9; Gaz. vol. 220; p. 674.
- Owl Drug Company, The, San Francisco, Cal. Laxative. No. 106,252; Oct. 19; Gaz. vol. 219; p. 919.
- P. Rielly & Son, Newark, N. J. Fabric substitute for leather. No. 105,170; July 6; Gaz. vol. 216; p. 325.
- P. F. Collier & Son, Incorporated, New York, N. Y. Weekly periodical. No. 101,918; Jan. 19; Gaz. vol. 210; p. 1059.
- P. H. Hanes Knitting Co., Winston-Salem, N. C. Combination-suits, shirts, and drawers of ribbed knitted material. No. 105,203; July 13; Gaz. vol. 216; p. 658.
- P. J. Murray & Company, Inc., Holyoke, Mass. Wine. No. 107,726; Dec. 21; Gaz. vol. 221; p. 1036.
- Pa Pro Company, The, Lowville, N. Y. Caps or closures for bottles, &c. No. 103,963; Apr. 20; Gaz. vol. 213; p. 1114.
- Pacific Ammonia & Chemical Co., St. Louis, Mo., and Seattle, Wash. Aqua and anhydrous ammonia. No. 105,469; July 27; Gaz. vol. 216; p. 1314.
- Pacific Coast Biscuit Co., Seattle, Wash. Ginger-snaps. No. 106,361; Oct. 19; Gaz. vol. 219; p. 922.
- Pacific Coast Biscuit Company, Spokane, Wash. Certain named foods. No. 102,157; Jan. 26; Gaz. vol. 210; p. 1391.
- Pacific Coast Biscuit Company, Seattle, Wash. Bitter sweets, whipped cream, chocolates. No. 105,607; Aug. 10; Gaz. vol. 217; p. 694.
- Pacific Coast Biscuit Company, Seattle and Spokane, Wash., and Portland, Ore. Crackers, biscuits, snaps, and candy. No. 106,996; Nov. 9; Gaz. vol. 220; p. 671.
- Pacific Coast Rattan Co., Oakland, Cal. Rugs and carpets of woven grass. No. 104,987; June 29; Gaz. vol. 215; p. 1495.
- Pacific Lumber Company, The, San Francisco, Cal. Certain named finished lumber and millwork. No. 105,365; July 20; Gaz. vol. 216; p. 1008.
- Pacific Preserve Co., San Francisco, Cal. Pickles. No. 103,327; Mar. 30; Gaz. vol. 212; p. 1684.
- Pacific Tank & Pipe Co., San Francisco, Cal. Silos and tanks. No. 103,297; Mar. 30; Gaz. vol. 212; p. 1683.
- Package Confectionery Co., Boston, Mass. Candy. No. 105,867; Aug. 24; Gaz. vol. 217; p. 1336.
- Package Confectionery Co., Boston, Mass. Candy. No. 106,487; Oct. 19; Gaz. vol. 219; p. 926.
- Package Confectionery Company, Boston, Mass. Candy. No. 102,945; Mar. 2; Gaz. vol. 212; p. 324.
- Package Confectionery Company, Boston, Mass. Candy. No. 103,071; Mar. 16; Gaz. vol. 212; p. 1051.
- Package Confectionery Company, Boston, Mass. Candy. No. 105,740; Aug. 17; Gaz. vol. 217; p. 1050.
- Page & Hill Co., Minneapolis, Minn. Wood-preserving oil. No. 104,746; June 15; Gaz. vol. 215; p. 972.
- Palget Jones Chemical Co., New York, N. Y., and Hammond, Ind. Preparations for the removal and prevention of scale in boilers. No. 105,698; Aug. 10; Gaz. vol. 217; p. 696.
- Paint Products Co., Chicago, Ill. Certain named paints and painters' supplies. No. 105,273; July 13; Gaz. vol. 216; p. 660.
- Palmer Candy Co., Sioux City, Iowa. Cake. No. 106,997; Nov. 9; Gaz. vol. 220; p. 671.
- Palmer, John H., Westport, Ind. Liniment for the treatment of certain named diseases. No. 102,297; Feb. 2; Gaz. vol. 211; p. 280.
- Palmer-McLellan Shoepack Co., Ltd., Fredericton, New Brunswick, Canada. Shoepacks. No. 105,670; Aug. 10; Gaz. vol. 217; p. 696.
- Palmetto Products Company, Inc., New York, N. Y. Textile rugs, mats, and runners and cotton bagging. No. 104,123; May 4; Gaz. vol. 214; p. 339.
- Palomo, M., San Salvador, Salvador. Medicinal tonic and hair-dye. No. 106,998; Nov. 9; Gaz. vol. 220; p. 671.
- Pamerleau, Joseph L., Detroit, Mich. Remedy for headache and neuralgia. No. 106,253; Oct. 19; Gaz. vol. 219; p. 919.
- Paper Sales Company, Chicago, Ill. Toilet-paper. No. 107,727; Dec. 21; Gaz. vol. 221; p. 1036.
- Papier Poudré Limited, London, England; Paris, France, and New York, N. Y. Preparation for the skin. No. 103,674; Apr. 13; Gaz. vol. 213; p. 740.
- Paramount Drug Co., The, Washington, D. C. Medicinal tonics and blood-purifiers, remedies for kidney and bladder troubles, &c. No. 105,553; Aug. 3; Gaz. vol. 217; p. 336.
- Paramount Metal Form Drying Company, Beaver Dam, Wis. Hosiery-drying forms. No. 101,973; Jan. 19; Gaz. vol. 210; p. 1061.
- Paramount Pictures Corporation, New York, N. Y. Motion-pictures. No. 103,248; Mar. 23; Gaz. vol. 212; p. 1354.
- Parfumerie Marceau Inc., New York, N. Y. Face-powders. No. 106,894; Nov. 2; Gaz. vol. 220; p. 345.
- Parham, Orthia J., Shreveport, La. Chemical combination for external application for skin diseases. No. 107,370; Nov. 23; Gaz. vol. 220; p. 1369.
- Park & Pollard Company, The, Boston, Mass. Cornmeal. No. 106,488; Oct. 19; Gaz. vol. 219; p. 926.
- Park & Tilford, New York, N. Y. Candies and chocolates. No. 102,158; Jan. 26; Gaz. vol. 210; p. 1391.
- Park & Tilford, New York, N. Y. Chocolates, candies, and bonbons. No. 102,760; Feb. 23; Gaz. vol. 211; p. 1258.
- Park & Tilford, New York, N. Y. Mint candies. No. 102,761; Feb. 23; Gaz. vol. 211; p. 1258.
- Park & Tilford, New York, N. Y. Chocolates and bonbons. No. 103,006; Mar. 16; Gaz. vol. 212; p. 1049.
- Park & Tilford, New York, N. Y. Candies and chocolates. No. 103,359; Mar. 30; Gaz. vol. 212; p. 1685.
- Park & Tilford, New York, N. Y. Candies and chocolate. No. 105,988; Sept. 7; Gaz. vol. 218; p. 317.
- Parke, Davis & Co., Detroit, Mich. Viruses, serums, toxins, and antitoxins. No. 102,656; Feb. 16; Gaz. vol. 211; p. 954.
- Parke Davis & Co., Detroit, Mich. Viruses, serums, toxins, and antitoxins. No. 106,175; Oct. 12; Gaz. vol. 219; p. 583.
- Parke, Davis & Company, Detroit, Mich. Pharmaceutical and chemical preparations for medicinal purposes. Nos. 103,702-3; Apr. 13; Gaz. vol. 213; p. 741.
- Parker Brothers, Portland, Me., and Salem, Mass. Games. Nos. 106,013-14; Sept. 14; Gaz. vol. 218; p. 599.
- Parker Cup & Specialty Works, Incorporated, Parkers Landing, Pa. Valve-cups constructed of bow-spring metal, graphite, and canvas. No. 106,665; Oct. 26; Gaz. vol. 219; p. 1230.
- Parker, Frank T., Philadelphia, Pa. Filter-cloths for presses. No. 105,224; July 13; Gaz. vol. 216; p. 658.
- Parker Hosiery Mill & Dye Works, Inc., Portsmouth, Va. Hosiery. No. 105,470; July 27; Gaz. vol. 216; p. 1314.

Alphabetical list of registrants of trade-marks—Continued.

- Parker Hosiery Mill & Dye Works, Inc., near Portsmouth, Va. Misses' hosiery. Nos. 106,666-7; Oct. 26; Gaz. vol. 219; p. 1230.
- Parker, Leo T., Lynchburg, Ohio. Preventives of gonorrhea, syphilis, and chancroid. No. 103,761; Apr. 13; Gaz. vol. 213; p. 743.
- Parker Wire Goods Company, Worcester, Mass. Certain named hardware and plumbing supplies. No. 104,182; May 4; Gaz. vol. 214; p. 341.
- Parkin, Charles H., Cleveland, Ohio. Bricks, tiles, blocks, slabs, floors, walls, and ceilings. No. 105,989; Sept. 7; Gaz. vol. 218; p. 317.
- Parks Bros. & Rogers, Providence, R. I. Precious-metal cuff-buttons. No. 104,777; June 15; Gaz. vol. 215; p. 973.
- Parlin & Orendorff Co., Canton, Ill. Cultivators. No. 106,489; Oct. 19; Gaz. vol. 219; p. 926.
- Parlin & Orendorff Company, Canton, Ill. Plows. No. 106,490; Oct. 19; Gaz. vol. 219; p. 926.
- Parrish, Jesse J., Titusville, Fla. Oranges, grape-fruit, and tangerines. No. 104,475; June 1; Gaz. vol. 215; p. 318.
- Parrish Machine Co., Waverly, Va. Planters, fertilizer and insecticide distributors, and lime-spreaders. No. 105,366; July 20; Gaz. vol. 216; p. 1008.
- Parsolne Company, Dayton, Ohio. Vermin-extermimator. No. 105,671; Aug. 10; Gaz. vol. 217; p. 696.
- Parsons, Jno. A., Troy, Pa. Steam-engines. No. 102,159; Jan. 26; Gaz. vol. 210; p. 1391.
- Parsons Paper Company, Holyoke, Mass. Writing and printing paper. No. 102,160; Jan. 26; Gaz. vol. 210; p. 1391.
- Parsons Paper Company, Holyoke, Mass. Writing and printing paper. No. 103,675; Apr. 13; Gaz. vol. 213; p. 740.
- Parsons-Powers Co., The, Columbus, Ohio. Bread. No. 106,362; Oct. 19; Gaz. vol. 219; p. 922.
- Parsons & Scoville Co., Evansville, Ind. Certain named foods. No. 103,328; Mar. 30; Gaz. vol. 212; p. 1684.
- Partridge, Carl H. M., Millers Falls, Mass. Liniments, ointments, laxative tablets, cough-syrups. No. 103,117; Mar. 16; Gaz. vol. 212; p. 1052.
- Partridge, Herbert L., La Crosse, Wis. Corn remedy, toothache-drops, cold-tablets, &c. No. 104,841; June 22; Gaz. vol. 215; p. 1257.
- Pasquotank Hosiery Company, Ellizabeth City, N. C. Hosiery. No. 102,724; Feb. 23; Gaz. vol. 211; p. 1256.
- Passaic Metal Ware Co., Passaic, N. J. Advertising-signs for public distribution. No. 102,161; Jan. 26; Gaz. vol. 210; p. 1391.
- Pasteur Laboratories of America, New York, N. Y. Disinfectant, antiseptic, and deodorant. No. 102,866; Feb. 23; Gaz. vol. 211; p. 1261.
- Patapasco Guano Co., New York, N. Y. Fertilizer. No. 102,162; Jan. 26; Gaz. vol. 210; p. 1391.
- Paterson, Edward A., Thorold, Ontario, Canada. Silicate of soda. No. 104,062; Apr. 27; Gaz. vol. 213; p. 1443.
- Pathe Freres Phonograph Company, Wilmington, Del., and New York, N. Y. Disks for talking-machines. No. 102,338; Feb. 9; Gaz. vol. 211; p. 633.
- Patterson, Gottfried & Hunter, Inc., New York, N. Y. Engine, precision, and speed lathes, saw-tables, &c. No. 107,744; Dec. 28; Gaz. vol. 221; p. 1445.
- Patterson, Ravenel S., Columbia, S. C. Non-alcoholic carbonated beverage. No. 106,176; Oct. 12; Gaz. vol. 219; p. 583.
- Patterson-Sargent Company. (See Davies & Meacham, assignors.)
- Patterson-Sargent Company, The, Cleveland, Ohio. Enamels. No. 103,204; Mar. 23; Gaz. vol. 212; p. 1353.
- Patterson-Sargent Company, The, Cleveland, Ohio. Paints, driers, enamels, &c. No. 106,668; Oct. 26; Gaz. vol. 219; p. 1230.
- Patton Paint Company, Milwaukee, Wis. Ready-mixed liquid paint. No. 103,007; Mar. 16; Gaz. vol. 212; p. 1049.
- Patton Paint Company, Milwaukee, Wis. Ready-mixed liquid paints. No. 105,122; July 6; Gaz. vol. 216; p. 323.
- Paul G. Mehlhlin & Sons, New York, N. Y. Pianos. No. 102,899; Mar. 2; Gaz. vol. 212; p. 323.
- Paul O. Reymann Co., Wheeling, W. Va. Ham, bacon, shoulders, picnics, &c. No. 106,677; Oct. 26; Gaz. vol. 219; p. 1231.
- Paul Schulze & Co. Limited, Manchester, England. Yarns. No. 101,720; Jan. 5; Gaz. vol. 210; p. 396.
- Pavell, August, Tempe, Ariz. Salve compound for cuts, sores, and bruises. No. 106,120; Oct. 12; Gaz. vol. 219; p. 582.
- Pawcatuck Woolen Mills, Westerly, R. I. Woolen piece goods. No. 103,118; Mar. 16; Gaz. vol. 212; p. 1052.
- Pawlas, George F. E., Cleveland, Ohio. Certain named medicines and pharmaceutical preparations. No. 104,884; June 22; Gaz. vol. 215; p. 1258.
- Paxton, John T., Rushville, Ind. Lotion for man or beast. No. 106,669; Oct. 26; Gaz. vol. 219; p. 1231.
- Pay, Robert P., Chicago, Ill. Toy vehicles. No. 103,396; Mar. 30; Gaz. vol. 212; p. 1686.
- Paye & Baker Manufacturing Company, North Attleboro, Mass. Certain named articles made of or plated with precious metal. No. 105,923; Aug. 24; Gaz. vol. 217; p. 1337.
- Peal, George H., Rutherford, N. J. Tea-balls. No. 102,163; Jan. 26; Gaz. vol. 210; p. 1391.
- Pearl City Fruit Co., Ltd., Honolulu, Hawaii. Canned pineapple. Nos. 103,008-9; Mar. 16; Gaz. vol. 212; p. 1049.
- Pearl City Fruit Co. Ltd., Honolulu, Hawaii. Canned pineapple. No. 104,545; June 1; Gaz. vol. 215; p. 320.
- Pearl, Jacob, Boston, Mass. Leather shoes. No. 102,164; Jan. 26; Gaz. vol. 210; p. 1391.
- Pechter, Firm of M., New York, N. Y. Rye-bread. No. 103,329; Mar. 30; Gaz. vol. 212; p. 1684.
- Pechter, Firm of M., New York, N. Y. Rye bread. No. 106,999; Nov. 9; Gaz. vol. 220; p. 671.
- Peck, Stow & Wilcox Co., Southington, Conn. Certain named cutlery, tools, and parts thereof. Nos. 107,000-1; Nov. 9; Gaz. vol. 220; p. 671.
- Pedigreed Seed Co., Hartsville, S. C. Farm and field seeds. No. 103,676; Apr. 13; Gaz. vol. 213; p. 740.
- Peck Bros. & Winch (America), New York, N. Y. Tea. No. 103,624; Apr. 6; Gaz. vol. 213; p. 358.
- Peeler, G. W., Silsbee, Tex. Preparation for treatment of kidneys, worms, chicken and hog cholera. No. 106,670; Oct. 26; Gaz. vol. 219; p. 1231.
- Peerless Carbon & Ribbon Mfg. Co., Inc., New York, N. Y. Carbon-paper and type-writer ribbons. No. 106,254; Oct. 19; Gaz. vol. 219; p. 919.
- Peerless Kid Company, Camden, N. J. Leather toppings. No. 107,694; Dec. 21; Gaz. vol. 221; p. 1035.
- Peerless Toledo Bedding Company, The, Toledo, Ohio. Mattresses. No. 107,371; Nov. 23; Gaz. vol. 220; p. 1369.
- Peet Bros. Mfg. Co., Kansas City, Kans. Soap. No. 106,177; Oct. 12; Gaz. vol. 219; p. 583.
- Peg Lock Block Company, Inc., New York, N. Y. Building-blocks. No. 101,974; Jan. 19; Gaz. vol. 210; p. 1061.
- Peg Lock Block Company, Inc., New York, N. Y. Building-blocks. No. 106,671; Oct. 26; Gaz. vol. 219; p. 1231.
- Penberthy Injector Co. Limited, Windsor, Ontario, Canada. Composition disk brass valves. No. 106,255; Oct. 19; Gaz. vol. 219; p. 919.
- Penetim Manufacturing Company, New York, N. Y. Flame-proof wood-preservative. No. 102,165; Jan. 26; Gaz. vol. 210; p. 1391.
- Penetim Manufacturing Company, New York, N. Y. Preparation for hardening concrete. No. 105,367; July 20; Gaz. vol. 216; p. 1008.
- Penfield, Raymond C., New York, N. Y., and Chicago, Ill. Brick-kilns. No. 102,537; Feb. 9; Gaz. vol. 211; p. 639.
- Peninsular Tool Salvage Co., Detroit, Mich. Milling-cutters. No. 107,002; Nov. 9; Gaz. vol. 220; p. 671.
- Penn Grains and Feed Company, Philadelphia, Pa. Brewers' dried grains. No. 104,074; Apr. 27; Gaz. vol. 213; p. 1443.
- Penn Oil & Supply Co., Oil City, Pa. Lubricating-oil. No. 103,119; Mar. 16; Gaz. vol. 212; p. 1052.
- Penn Oil and Supply Co., Pasadena, Cal. Lubricating oils and greases, also fuel-oils. No. 104,747; June 15; Gaz. vol. 215; p. 972.
- Pennsylvania Coal Company, Scranton, Pa. Coal. No. 107,633; Dec. 14; Gaz. vol. 221; p. 732.
- Pennsylvania Fire Proofing Company, St. Marys, Pa. Hollow building-tile. Nos. 105,742-4; Aug. 17; Gaz. vol. 217; p. 1050.
- Peoria Creamery Co., Peoria, Ill. Butter. No. 105,024; June 29; Gaz. vol. 215; p. 1496.
- Peppas & Alex Company, Cleveland, Ohio, and Chicago, Ill. Shoe polishes and dressings. No. 105,745; Aug. 17; Gaz. vol. 217; p. 1050.
- Pepsin Syrup Co., Monticello, Ill. Remedy for diseases of the stomach and bowels. No. 107,372; Nov. 23; Gaz. vol. 220; p. 1369.
- Perfect Shoe Manufacturing Co. Inc., New York, N. Y. Leather shoes. No. 102,438; Feb. 9; Gaz. vol. 211; p. 636.
- Perin Inc., New York, N. Y. Liquid complexion-powder. No. 106,895; Nov. 2; Gaz. vol. 220; p. 345.
- Periolat, Charles B., Chicago, Ill. Abrasive compound to be used on razor-strops. No. 106,035; Sept. 14; Gaz. vol. 218; p. 600.
- Periolat, Charles B., Chicago, Ill. Machinists' clamps. No. 106,036; Sept. 14; Gaz. vol. 218; p. 600.
- Perkins-Campbell Co., The, Cincinnati, Ohio. Liquid cleaner. No. 102,900; Mar. 2; Gaz. vol. 212; p. 323.
- Perkins Electric Switch Mfg. Company, The, Bridgeport, Conn. Electrical switches. No. 106,672; Oct. 26; Gaz. vol. 219; p. 1231.
- Perkins & McNeely, Philadelphia, Pa. Leather. No. 107,728; Dec. 21; Gaz. vol. 221; p. 1036.
- Perkins, Willard, San Francisco, Cal. Rubber heels and soles. No. 104,476; June 1; Gaz. vol. 215; p. 318.
- Perolin Company of America, The, Chicago, Ill. Chemical compounds for preserving boiler metals and removing oil, scale from boilers. No. 102,583; Feb. 16; Gaz. vol. 211; p. 952.
- Perretta & Co., Rocco, Utica, N. Y. Olive-oil. No. 104,676; June 8; Gaz. vol. 215; p. 663.
- Perrotts Limited, Leeds, England. Cloths and stuffs. No. 102,901; Mar. 2; Gaz. vol. 212; p. 323.
- Perrotts Limited, Leeds, England. Waterproofing compound used in all kinds of textiles. No. 102,946; Mar. 2; Gaz. vol. 212; p. 324.

- Perrotts Limited, Leeds, England. Certain named clothing. No. 103,625; Apr. 6; Gaz. vol. 213; p. 358.
- Persian Rug Manufactory, New York, N. Y. Textile rugs. No. 107,094; Nov. 9; Gaz. vol. 220; p. 874.
- Pestcoe, Charles, Philadelphia, Pa. Blouses, top skirts, underskirts, &c. No. 103,824; Apr. 13; Gaz. vol. 213; p. 744.
- Peter Kern Company, Knoxville, Tenn. Candy and cake. No. 107,264; Nov. 16; Gaz. vol. 220; p. 1039.
- Peter Schoenhofen Brewing Company, The, Chicago, Ill. Malt tonic. No. 103,794; Apr. 13; Gaz. vol. 213; p. 744.
- Peterborough Canoe Company, Limited, Peterborough, Ontario, Canada. Canoes. No. 103,594; Apr. 6; Gaz. vol. 213; p. 357.
- Peters & Company Proprietary Limited, Melbourne, Australia. Medicinal preparation for the cure of certain named diseases. No. 102,902; Mar. 2; Gaz. vol. 212; p. 323.
- Peters, Karl R., Philadelphia, Pa., assignor to So-Lumin Manufacturing & Engineering Company, Inc., New York, N. Y. Aluminum solder. No. 105,323; July 20; Gaz. vol. 216; p. 1007.
- Peterson Power and Milling Company, The, Peterson, Iowa. Wheat-flour. No. 102,166; Jan. 26; Gaz. vol. 210; p. 1391.
- Peterson, William J., New York, N. Y. Domes, reflectors, diffusers, and bowls. No. 104,426; May 25; Gaz. vol. 214; p. 1317.
- Petri-Italian-American Cigar Co. Inc., San Francisco, Cal. Cigars and cigarettes. No. 102,167; Jan. 26; Gaz. vol. 210; p. 1391.
- Petrocelli & Company, Joseph, New York, N. Y. Cotton salad-oil flavored with olive-oil. No. 107,478; Dec. 7; Gaz. vol. 221; p. 345.
- Petroleum Products Company, San Francisco, Cal. Motor-naphtha, benzine, and distillate. No. 106,363; Oct. 19; Gaz. vol. 219; p. 922.
- Petrolive Co., San Francisco, Cal. Medicinal preparation. No. 104,885; June 22; Gaz. vol. 215; p. 1258.
- Pew, Marlen E., New York, N. Y. Photo-engravings in the nature of engraved plates. No. 103,595; Apr. 6; Gaz. vol. 213; p. 357.
- Peyton Paper Co., Duluth, Minn. Certain named roofing materials. No. 104,308; May 18; Gaz. vol. 214; p. 1021.
- Peyton Paper Company, Duluth, Minn. Writing tablets and paper, correspondence-cards, &c. No. 107,479; Dec. 7; Gaz. vol. 221; p. 345.
- Phenix Cheese Co., New York, N. Y. Cheese. No. 104,546; June 1; Gaz. vol. 215; p. 320.
- Phenix Cheese Co., New York, N. Y. Cheese. No. 104,748; June 15; Gaz. vol. 215; p. 972.
- Phenix Marble Company, Kansas City, Mo. Quarried marble and stone. No. 107,373; Nov. 23; Gaz. vol. 220; p. 1369.
- Philadelphia Quartz Company, Philadelphia, Pa. Egg-preservers. No. 103,791; Apr. 13; Gaz. vol. 213; p. 743.
- Philp Carey Manufacturing Company, The, Lockland, Ohio. Certain named construction materials. No. 105,340; July 20; Gaz. vol. 216; p. 1008.
- Philp Carey Manufacturing Company, The, Lockland, Ohio. Certain named roofing materials. No. 107,151; Nov. 16; Gaz. vol. 220; p. 1035.
- Phillips Boyd Co., Incor., New York, N. Y. Manufactured gumpies, boudoir-caps, vestees, collars, and cuffs. No. 106,491; Oct. 19; Gaz. vol. 219; p. 926.
- Phillips, Harold W., Washington, D. C. Monthly periodical. No. 104,819; June 15; Gaz. vol. 215; p. 974.
- Phillips, Firm of I. & M., New York, N. Y. Misses' outer suits and coats. No. 104,477; June 1; Gaz. vol. 215; p. 318.
- Phillips, Manning, New York, N. Y. Women's and misses' outer suits and coats. No. 105,746; Aug. 17; Gaz. vol. 217; p. 1050.
- Phillips, Philip, Orlando, Fla. Fresh fruits and vegetables. No. 102,584; Feb. 16; Gaz. vol. 211; p. 952.
- Phillips, Roy A., Cleveland, Ohio. Furniture-dressing. No. 104,262; May 11; Gaz. vol. 214; p. 679.
- Philo Hay Specialties Co., Newark, N. J. Preparation for coloring gray or faded hair. No. 106,492; Oct. 19; Gaz. vol. 219; p. 926.
- Phinny Bros. Company, Oil City, Pa. Petroleum, gasoline, lubricating-oil, &c. No. 106,015; Sept. 14; Gaz. vol. 218; p. 599.
- Phoenix Flour Mill, Evansville, Ind. Self-rising wheat-flour. No. 105,963; Aug. 31; Gaz. vol. 217; p. 1658.
- Phoenix Manufacturing Co., Eau Claire, Wis. Gastraction-engines. No. 105,699; Aug. 10; Gaz. vol. 217; p. 696.
- Phoenix Oil Co., The, Cleveland, Ohio. Lubricating oils, greases, and compounds. No. 107,193; Nov. 16; Gaz. vol. 220; p. 1036.
- Phospho-Ginger Company, Raleigh, N. C. Non-alcoholic tonic syrup beverage. No. 107,560; Dec. 7; Gaz. vol. 221; p. 348.
- Photo-Drama Producing Co. Società in Accomandita Semplificata Uno Dei Soci Gerenti, Turin, Italy. Films, photographs, cinematographic and photographic machines. No. 102,636; Feb. 16; Gaz. vol. 211; p. 953.
- Photographic Journal of America, Incorporated, The, New York, N. Y. Monthly magazines. No. 106,364; Oct. 19; Gaz. vol. 219; p. 922.
- Picador Hosiery Company, Philadelphia, Pa. Hosiery and underwear. No. 105,421; July 20; Gaz. vol. 216; p. 1010.
- Pickering, Fred A., Baldwinville, Mass. Preparation for exterminating insects. No. 106,896; Nov. 2; Gaz. vol. 220; p. 345.
- Picture Theatre Equipment Co., The, New York, N. Y. Motion-picture machines. No. 107,003; Nov. 9; Gaz. vol. 220; p. 671.
- Pidgeon-Thomas Iron Company, Memphis, Tenn. Rubber roofing. No. 102,168; Jan. 26; Gaz. vol. 210; p. 1392.
- Piedmont Manufacturing Company, Piedmont, S. C. Sheetings and drillings. No. 106,494; Oct. 19; Gaz. vol. 219; p. 926.
- Piedmont-Mt. Airy Guano Co., Baltimore, Md. Fertilizer. No. 102,169; Jan. 26; Gaz. vol. 210; p. 1392.
- Piedmont Orchard Co., Inc., Linden, Va. Fresh apples and peaches. No. 102,339; Feb. 9; Gaz. vol. 211; p. 633.
- Pieratt & Collins Co., Minneapolis, Minn. Candy. No. 104,645; June 8; Gaz. vol. 215; p. 662.
- Pierce, Edward W., Philadelphia, Pa. Antitoxin, opsonin, and general antiseptic. No. 106,493; Oct. 19; Gaz. vol. 219; p. 926.
- Pierce Oil Corporation, Richmond, Va., and St. Louis, Mo. Certain named oils and greases. No. 104,124; May 4; Gaz. vol. 214; p. 339.
- Pierce Oil Corporation, Richmond, Va., and St. Louis, Mo. Axle-grease. No. 107,278; Nov. 16; Gaz. vol. 220; p. 1039.
- Piesse & Lubin, London, England. Toilet soaps. No. 103,360; Mar. 30; Gaz. vol. 212; p. 1685.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 102,170; Jan. 26; Gaz. vol. 210; p. 1392.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour and wheat-flour middlings. No. 103,397; Mar. 30; Gaz. vol. 212; p. 1686.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 104,646; June 8; Gaz. vol. 215; p. 662.
- Pillsbury, Rose V., San Diego, Cal. Carbonated beverages, non-alcoholic. No. 102,657; Feb. 16; Gaz. vol. 211; p. 954.
- Pilot Motor Car Co., Richmond, Ind. Automobiles. No. 106,795; Oct. 26; Gaz. vol. 219; p. 1234.
- Pimbley Paint & Glass Co., St. Joseph, Mo. Preparation for cleaning and polishing automobiles. No. 105,225; July 13; Gaz. vol. 216; p. 658.
- Pinco, Louis H., New York, N. Y. Laxative gum. No. 104,478; June 1; Gaz. vol. 215; p. 318.
- Pintsch Compressing Company, New York, N. Y. Com-bustible gas for fuel. No. 106,178; Oct. 12; Gaz. vol. 219; p. 583.
- Pioneer Shoe & Rubber Co., Minneapolis, Minn. Leather and rubber boots and shoes and tops therefor. No. 105,411; July 20; Gaz. vol. 216; p. 1010.
- Pioneer Shoe & Rubber Company, Minneapolis, Minn. Rain-coats. No. 105,608; Aug. 10; Gaz. vol. 217; p. 694.
- Pioneer Suspender Company, Philadelphia, Pa. Garters. No. 106,673; Oct. 26; Gaz. vol. 219; p. 1231.
- Pisani Fighi & Co., New York, N. Y. Olive-oil. No. 106,897; Nov. 2; Gaz. vol. 220; p. 345.
- Pitino Brothers, Los Angeles, Cal. Citrus fruits. No. 104,988; June 29; Gaz. vol. 215; p. 1495.
- Pittsburgh Brewing Company, Pittsburgh, Pa. Beer. No. 102,637; Feb. 16; Gaz. vol. 211; p. 953.
- Pittsburgh Brewing Company, Pittsburgh, Pa. Beer. No. 103,596; Apr. 6; Gaz. vol. 213; p. 357.
- Pittsburgh Brewing Company, Pittsburgh, Pa. Beer. No. 104,479; June 1; Gaz. vol. 215; p. 318.
- Pittsburgh Crushed Steel Co., Pittsburgh, Pa. Concrete-hardener and waterproofing compound for concrete. No. 101,792; Jan. 12; Gaz. vol. 210; p. 711.
- Pittsburgh Iron and Steel Foundries Company, Midland, Pa. Certain named cutlery, machinery, tools, and parts thereof. No. 106,495; Oct. 19; Gaz. vol. 219; p. 926.
- Pittsburgh Stogie and Cigar Company, Pittsburgh, Pa. Stogies. No. 101,648; Jan. 5; Gaz. vol. 210; p. 394.
- Piury & Co., Puerto de Santa Maria, Spain. Sherry-wine. No. 106,256; Oct. 19; Gaz. vol. 219; p. 919.
- Placentia Mutual Orange Association, Placentia, Cal. Oranges. No. 103,704; Apr. 13; Gaz. vol. 213; p. 741.
- Placentia Mutual Orange Association, Placentia, Cal. Oranges. Nos. 103,838-9; Apr. 13; Gaz. vol. 213; p. 745.
- Plains Oil Company, Phoenix, Ariz. Preparation for use in internal-combustion engines for augmenting the energy of motor-spirits. No. 106,016; Sept. 14; Gaz. vol. 218; p. 599.
- "Planfor" Aktiengesellschaft für Platten-Sprechmaschinen, Charlottenburg, near Berlin, Germany. Talking-machines and accessories. No. 107,716; Dec. 21; Gaz. vol. 221; p. 1036.
- Plate, Ferdinand, Buffalo, N. Y., assignor to Niagara Chocolate Company, Candy. No. 102,538; Feb. 9; Gaz. vol. 211; p. 639.
- Plaut & Co., L., New York, N. Y. Glass globes and shades for lamps and lights. No. 107,005; Nov. 9; Gaz. vol. 220; p. 671.
- Plumb, Chas. L., New York, N. Y. Wheat-flour. No. 104,125; May 4; Gaz. vol. 214; p. 339.

Alphabetical list of registrants of trade-marks—Continued.

- Plumb, Ralph H., Des Moines, Iowa. Cleaning compound for cleaning gold, platinum, and other jewelry. No. 102,171; Jan. 26; Gaz. vol. 210; p. 1392.
- Plummer, Ed B., Little Rock, Ark. Stock food. No. 103,205; Mar. 23; Gaz. vol. 212; p. 1353.
- Plunkett & Co., H. E., Melrose, Mass. Salves. No. 107,374; Nov. 23; Gaz. vol. 220; p. 1369.
- Plymouth Citrus Growers Assc., Plymouth, Fla. Citrus fruits. No. 103,913; Apr. 20; Gaz. vol. 213; p. 1113.
- Plymouth Milling Company, Le Mars, Iowa. Wheat and corn flours. No. 104,394; May 25; Gaz. vol. 214; p. 1316.
- Plymouth Rock Gelatine Co., Boston and Brighton, Mass. Gelatin. Nos. 105,747-8; Aug. 17; Gaz. vol. 217; p. 1050.
- Plymouth Rubber Company, Canton, Mass. Rubber heels for boots and shoes. No. 101,716; Jan. 5; Gaz. vol. 210; p. 396.
- Plymouth Rubber Company, Canton, Mass. Fabricated soles for boots and shoes. No. 101,975; Jan. 19; Gaz. vol. 210; p. 1061.
- Poe, James G., Dallas, Tex. Liquid in which a fibrous material is incorporated for use in pneumatic tires. No. 107,634; Dec. 14; Gaz. vol. 221; p. 733.
- Poldihütte Tiegelgusszfabrik, Vienna and Kladno, Austria-Hungary. Steel blocks and bars, artisans' and cutting tools, &c. No. 103,206; Mar. 23; Gaz. vol. 212; p. 1353.
- Polgreen, William C., Lawrence, Mass. Furniture, automobile or carriage, and floor polishes. No. 102,813; Feb. 23; Gaz. vol. 211; p. 1259.
- Politzer Toy Mfg. Co., Inc., New York, N. Y. Dolls and stuffed toy animals. No. 104,354; May 25; Gaz. vol. 214; p. 1315.
- Polk, John L., Albany, N. Y. Lotions for chapped hands, lips, and face and to soften and heal the skin. No. 103,177; Mar. 16; Gaz. vol. 212; p. 1054.
- Polo Club Cigarette Co. (See Wolfe, Henderson M., assignor.)
- Pommery, fils & Cie., Lse., Rheims, France. Champagne and sparkling wines. Nos. 106,011-12; Sept. 14; Gaz. vol. 218; p. 599.
- Pompelan Mfg. Co., The, Cleveland, Ohio. Cold-cream. No. 106,121; Oct. 12; Gaz. vol. 219; p. 582.
- Pond, Edmund M., Rutland, Vt. Medicated compound for use as ointment or in plasters. No. 102,439; Feb. 9; Gaz. vol. 211; p. 636.
- Pond, Edmund M., Rutland, Vt. Tonic pills. No. 102,440; Feb. 9; Gaz. vol. 211; p. 636.
- Pond, Edmund M., Rutland, Vt. Laxative pills. No. 102,638; Feb. 16; Gaz. vol. 211; p. 953.
- Popcorn Products Co., New York, N. Y. Popcorn. No. 103,716; Apr. 13; Gaz. vol. 213; p. 741.
- Pope Manufacturing Company, The, Westfield, Mass. Bicycles. No. 102,639; Feb. 16; Gaz. vol. 211; p. 953.
- Porcela-Radax Company, Pittsburgh, Pa. Cleansing-powder for cleaning closet-bowls, porcelain and vitreous ware. No. 105,749; Aug. 17; Gaz. vol. 217; p. 1050.
- Porta, J. R., Tampa, Fla. Purgatives. No. 102,299; Feb. 2; Gaz. vol. 211; p. 280.
- Portable Power Manufacturing Co., Chicago, Ill. Gas-engines. No. 107,817; Dec. 28; Gaz. vol. 221; p. 1447.
- Portage Rubber Co., The, Akron, Ohio. Rubber vehicle-tires. No. 105,964; Aug. 31; Gaz. vol. 217; p. 1658.
- Porter, H. M., North Platte, Neb. Certain named non-alcoholic beverages. No. 106,796; Oct. 26; Gaz. vol. 219; p. 1234.
- Porter & Jones, Girard, Ala. Whisky. No. 102,300; Feb. 2; Gaz. vol. 211; p. 280.
- Porter, Mary E., Lewistown, Ill. Bee-escapes. No. 105,868; Aug. 24; Gaz. vol. 217; p. 1336.
- Postamper Company, The, Chicago, Ill. Stamp-affixing machines. No. 104,106; Apr. 27; Gaz. vol. 213; p. 1444.
- Postum Cereal Co., Limited, Battle Creek, Mich. Food-beverage compounds. No. 107,527; Dec. 7; Gaz. vol. 221; p. 347.
- Potter, Ellis G., New York, N. Y. Laxative. No. 103,179; Mar. 16; Gaz. vol. 212; p. 1054.
- Potter, Ellis M., New York, N. Y. Vegetable compound to be mixed and ground with cocoa, coffee, &c. No. 103,570; Apr. 6; Gaz. vol. 213; p. 356.
- Potterf, Orlystis M., Larned, Kans. Certain named clothing. No. 103,361; Mar. 30; Gaz. vol. 212; p. 1685.
- Poulsen, Jens J., Copenhagen, Denmark. Plaster used by dentists for taking an impression of the mouth. No. 105,324; July 20; Gaz. vol. 216; p. 1007.
- Powell & Campbell, New York, N. Y. Boots, shoes, slippers, and rubbers. No. 103,677; Apr. 13; Gaz. vol. 213; p. 740.
- Powell's, New York, N. Y. Peanut-brittle. No. 105,123; July 6; Gaz. vol. 216; p. 323.
- Powells, New York, N. Y. Candy. No. 106,081; Oct. 5; Gaz. vol. 219; p. 267.
- Powerlene Manufacturing Co., Philadelphia, Pa. Driving-chain lubricant. No. 105,609; Aug. 10; Gaz. vol. 217; p. 694.
- Powers, Emmett, Denver, Colo. Nasal balm. No. 106,898; Nov. 2; Gaz. vol. 220; p. 345.
- Pratt & Lambert, Inc., Buffalo, N. Y. Certain named paints and painters' materials. No. 105,610; Aug. 10; Gaz. vol. 217; p. 694.
- Pratt-Low Preserving Co., Santa Clara, Cal. Sauce. No. 103,862; Apr. 20; Gaz. vol. 213; p. 1111.
- Prebol, Bronislaw, Passaic, N. J. Medicinal wines. No. 104,951; June 29; Gaz. vol. 215; p. 1494.
- Premier Vacuum Cleaner Company, The, Cleveland, Ohio. Periodical publication. No. 105,902; Aug. 24; Gaz. vol. 217; p. 1337.
- Pressed Asbestos Products Co., New York, N. Y. Composition of asbestos or other fibrous substances held together with a fire-resisting binder. No. 103,597; Apr. 6; Gaz. vol. 213; p. 357.
- Pressed Steel Car Company, Pittsburgh, Pa., and Jersey City, N. J. Bolster for railway-car trucks. No. 106,257; Oct. 19; Gaz. vol. 219; p. 919.
- Pressed Steel Manufacturing Company, Philadelphia, Pa. Antifriction-bearings. No. 104,231; May 11; Gaz. vol. 214; p. 678.
- Prest-O-Lite Company, Inc., The, Indianapolis, Ind. Electric storage batteries. No. 107,006; Nov. 9; Gaz. vol. 220; p. 671.
- Pretto & C., E., Genoa, Italy. Side dish consisting of tunny-fish, &c. No. 107,007; Nov. 9; Gaz. vol. 220; p. 671.
- Price, Calvin, Chicago, Ill. Chewing-gum. No. 104,336; May 13; Gaz. vol. 214; p. 1022.
- Price Flavoring Extract Company, Chicago, Ill. Food-flavoring extracts and jelly-powder. No. 105,274; July 13; Gaz. vol. 216; p. 660.
- Price, Franklin J. R., Chicago, Ill. Dental paste. No. 102,585; Feb. 16; Gaz. vol. 211; p. 952.
- Price, William B., Poughkeepsie, N. Y. Waterproofing composition for fabrics. Nos. 102,301-2; Feb. 2; Gaz. vol. 211; p. 280.
- Price, William B., Poughkeepsie, N. Y. Compound for fireproofing fabrics. No. 102,303; Feb. 2; Gaz. vol. 211; p. 280.
- Price, William B., Poughkeepsie, N. Y. Composition for waterproofing fabrics. No. 102,304; Feb. 2; Gaz. vol. 211; p. 280.
- Price, William B., Poughkeepsie, N. Y. Waterproofing composition for fabrics. Nos. 102,305-7; Feb. 2; Gaz. vol. 211; pp. 280-1.
- Price, William B., Poughkeepsie, N. Y. Waterproofing compound for fabrics, cement, concrete, and brick. No. 102,308; Feb. 2; Gaz. vol. 211; p. 281.
- Prices Patent Candle Company Limited, London, Battersea, and Cheshire, England. Food-warmers, night and nursery candle-lamps. No. 102,340; Feb. 9; Gaz. vol. 211; p. 633.
- Primo Cork & Seal Company, Inc., New York, N. Y. Closures for bottles and other receptacles. No. 107,196; Nov. 16; Gaz. vol. 220; p. 1037.
- Prince Lauten Co., New York, N. Y. Cotton, linen, silk, and woolen piece goods. No. 105,827; Aug. 17; Gaz. vol. 217; p. 1052.
- Princess Confectionery Company, The, Milwaukee, Wis. Candy. No. 102,815; Feb. 23; Gaz. vol. 211; p. 1259.
- Priscilla Publishing Co., The, Boston, Mass. Sewing-machines. No. 104,570; June 1; Gaz. vol. 215; p. 321.
- Proctor, Charles S., Detroit, Mich. Scotch whisky. No. 104,647; June 8; Gaz. vol. 215; p. 662.
- Profitable Storekeeping Company, Chicago, Ill. Monthly magazine. No. 105,903; Aug. 24; Gaz. vol. 217; p. 1337.
- Prohibition Film Corporation, New York, N. Y. Moving-picture or cinematograph films or pictures. No. 105,555; Aug. 3; Gaz. vol. 217; p. 336.
- Prokesch, Essie, Hackensack, N. J. Imitation coffee. No. 106,797; Oct. 26; Gaz. vol. 219; p. 1234.
- Prometheus Fabrik Elektrischer Koch- & Heizapparate Gesellschaft mit beschränkter Haftung, Frankfurt-on-the-Main, Germany. Certain named electric apparatus and utensils. No. 102,341; Feb. 9; Gaz. vol. 211; p. 633.
- Protectair Manufacturing Company, Wilmington, Del., and Philadelphia, Pa. Liquid for sealing punctures in pneumatic tubes. No. 104,005; Apr. 27; Gaz. vol. 213; p. 1441.
- Protective "Freflo" Stopple Company. (See Douglass, John W., assignor.)
- Providence Braid Company, Pawtucket, R. I. Shoe-laces. No. 106,798; Oct. 26; Gaz. vol. 219; p. 1234.
- Provident Chemical Works, St. Louis, Mo. Acid phosphate of calcium. No. 104,030; Apr. 27; Gaz. vol. 213; p. 1442.
- Fryde, Robert D., Orange, Conn. Golf-club heads. No. 105,750; Aug. 17; Gaz. vol. 217; p. 1050.
- Pryor, Arthur Q., Rochester, N. Y. Chewing-gum. No. 103,033; Mar. 16; Gaz. vol. 212; p. 1050.
- Public Service Cup Company, Brooklyn, N. Y. Paper cups. No. 101,649; Jan. 5; Gaz. vol. 210; p. 394.
- Puck Publishing Corporation, New York, N. Y. Weekly periodicals. No. 104,337; May 18; Gaz. vol. 214; p. 1022.
- Puckett, William L., Los Angeles, Cal. Liniment. No. 102,172; Jan. 26; Gaz. vol. 210; p. 1392.
- Puhl-Webb Co., Chicago, Ill. Coffee. No. 103,010; Mar. 16; Gaz. vol. 212; p. 1049.
- Pull-U-Out Sales Co., St. Louis, Mo. Certain geared block and tackle. No. 107,813; Dec. 28; Gaz. vol. 221; p. 1447.

- Pull-U-Out Sales Co., St. Louis, Mo. Certain metallic stakes or anchors. No. 107,814; Dec. 28; Gaz. vol. 221; p. 1447.
- Pulpit Farm Dairy, Manchester, N. H. Milk, cream, and ice-cream. No. 106,899; Nov. 2; Gaz. vol. 220; p. 345.
- Pulver Company, Inc., Rochester, N. Y. Chewing-gum. No. 104,571; June 1; Gaz. vol. 215; p. 321.
- Pulverized Manure Co., Chicago, Ill. Natural and prepared fertilizers. No. 107,503; Dec. 7; Gaz. vol. 221; p. 346.
- Purity Oats Company, Keokuk, Iowa. Rolled oats. No. 103,442; Apr. 6; Gaz. vol. 213; p. 352.
- Pushie & Sons, J. C., Boston, Mass. Painters' brushes. No. 107,375; Nov. 23; Gaz. vol. 220; p. 1369.
- Pushin, Frances M., Cincinnati, Ohio. Antiseptic fluid having medicinal properties. No. 105,700; Aug. 10; Gaz. vol. 217; p. 696.
- Putnam Knitting Company, Cohoes, N. Y. Knitted wash-cloths and towels. No. 103,207; Mar. 23; Gaz. vol. 212; p. 1353.
- Puzziello, Lucario & Co., New York, N. Y. Cordials. No. 103,120; Mar. 16; Gaz. vol. 212; p. 1052.
- Pyorhemedy Corporation, The, New York, N. Y. Tooth-powder. No. 107,279; Nov. 16; Gaz. vol. 220; p. 1039.
- Qualitrye Rubber Company. (See Murray, Frank T., assignor.)
- Queen City Flour & Feed Co., Cincinnati, Ohio. Wheat-flour. No. 105,325; July 20; Gaz. vol. 216; p. 1007.
- Queen City Knitting Mills, Inc., Poughkeepsie, N. Y. Shawls. Nos. 106,674-5; Oct. 26; Gaz. vol. 219; p. 1231.
- Quincy, Charles F., Center Harbor, N. H. Plant and vegetable food. No. 106,037; Sept. 14; Gaz. vol. 218; p. 600.
- Quinebaug Company, Brooklyn, Conn. Cotton piece goods. No. 106,900; Nov. 2; Gaz. vol. 220; p. 345.
- Quinn, William E., assignor to Magic Mist, Inc., New York, N. Y. Oil deodorizer and disinfectant. No. 106,676; Oct. 26; Gaz. vol. 219; p. 1231.
- R. Petri Wine Company, Inc., San Francisco, Cal. Wines. No. 104,153; May 4; Gaz. vol. 214; p. 340.
- R. Petri Wine Company, Inc., San Francisco, Cal. Whisky, brandy, cordials, and rum. No. 104,154; May 4; Gaz. vol. 214; p. 340.
- R. A. Woodridge Company, Baltimore, Md. Fertilizers. No. 104,663; June 8; Gaz. vol. 215; p. 663.
- R. E. Cobb Co., The, St. Paul, Minn. Prints of process or renovated butter. No. 106,742; Oct. 26; Gaz. vol. 219; p. 1233.
- R. E. Dietz Company, New York, N. Y. Hot and cold blast tubular lanterns. No. 106,752; Oct. 26; Gaz. vol. 219; p. 1233.
- R. E. Rodda Candy Co., The, Lancaster, Pa. Candy. No. 106,906; Nov. 2; Gaz. vol. 220; p. 345.
- R. F. & J. Alexander & Co., Ltd., Neilston, Scotland. Sewing-cotton. No. 106,923; Nov. 9; Gaz. vol. 220; p. 669.
- R. H. Hoskins Co., New York and Brooklyn, N. Y. Boots and shoes. No. 103,101; Mar. 16; Gaz. vol. 212; p. 1052.
- R. H. Macy & Co., New York, N. Y. Watches. No. 106,457; Oct. 19; Gaz. vol. 219; p. 925.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Plug and twist tobacco. No. 101,680; Jan. 5; Gaz. vol. 210; p. 395.
- R. L. Watkins Company, The, Cleveland, Ohio. Liquid shampoo. No. 105,681; Aug. 10; Gaz. vol. 217; p. 696.
- R. M. Ford & Co., Inc., New York, N. Y. Printed annual publication. No. 104,535; June 1; Gaz. vol. 215; p. 320.
- R. M. Hollingshead Co., The, Camden, N. J. Certain named polish, dressings, and cleaners. No. 102,409; Feb. 9; Gaz. vol. 211; p. 635.
- R. M. Rose Company, Chattanooga, Tenn. Blend of straight whiskies. No. 106,122; Oct. 12; Gaz. vol. 219; p. 582.
- R. P. Andrews Paper Company, Washington, D. C. Sealing and stapling machines. No. 107,486; Dec. 7; Gaz. vol. 221; p. 345.
- R. P. Andrews Paper Company, Washington, D. C. Bond-paper. No. 105,711; Aug. 17; Gaz. vol. 217; p. 1049.
- R. & R. Manufacturing Co., The, Chicago, Ill. Shock-absorbers. No. 106,499; Oct. 19; Gaz. vol. 219; p. 926.
- Rabinowitz, Harry, New York, N. Y. Neckties and neckscarfs. No. 104,107; Apr. 27; Gaz. vol. 213; p. 1444.
- Rabith, Mike, Barberton, Ohio. Salve for external ailments. No. 104,395; May 25; Gaz. vol. 214; p. 1316.
- Racine & Co., Jules, New York, N. Y. Watches and watch-movements. No. 106,258; Oct. 19; Gaz. vol. 219; p. 919.
- Radiator-Fix Company, Inc., New York, N. Y. Chemical solution for leaks in radiators of internal-combustion engines. No. 104,232; May 11; Gaz. vol. 214; p. 678.
- Radio-Round Incubator Co., Wayne, Nebr. Incubator. No. 104,480; June 1; Gaz. vol. 215; p. 318.
- Radium Limited, U. S. A., New York, N. Y. Radio-active emanations. No. 105,488; July 27; Gaz. vol. 216; p. 1314.
- Raffior, Erbsloh and Company, New York, N. Y. Rope, binder and other twines. Nos. 106,500-1; Oct. 19; Gaz. vol. 219; p. 926.
- Railway Chemical Company, The, New York, N. Y. Chemical weed-killing compounds. No. 101,678; Jan. 5; Gaz. vol. 210; p. 395.
- Rains, Harry S., New York, N. Y. Leather vanity-bags. No. 104,126; May 4; Gaz. vol. 214; p. 339.
- Ralston Purina Company, St. Louis, Mo. Dairy feed. No. 102,843; Feb. 23; Gaz. vol. 211; p. 1260.
- Ralston Purina Company, St. Louis, Mo. Horse and mule, dairy, chicken, hog, &c., feeds. No. 102,844; Feb. 23; Gaz. vol. 211; p. 1260.
- Ralston Purina Company, St. Louis, Mo. Bread, including zwieback. No. 102,845; Feb. 23; Gaz. vol. 211; p. 1260.
- Ralston Purina Company, St. Louis, Mo. Prepared mixed feed for stock, dairy-animals, and poultry. No. 104,915; June 22; Gaz. vol. 215; p. 1259.
- Ramsay, Henry, South Bermondsey, London, England. Certain named fancy goods and notions. No. 107,096; Nov. 9; Gaz. vol. 220; p. 674.
- Ramsey, G. P., Ada, Okla. Preparation for cancers and tumors. No. 104,749; June 15; Gaz. vol. 215; p. 972.
- Rand Brothers, Philadelphia, Pa. Women's, misses', and children's shirt-waists and dresses. No. 106,502; Oct. 19; Gaz. vol. 219; p. 926.
- Rand, Nelson C., Everett, Mass. Crackers, biscuit, bread, and pastry. No. 104,108; Apr. 27; Gaz. vol. 213; p. 1444.
- Rankin Company, Inc., Roanoke, Va. Pendants, charms, and brooches. No. 104,155; May 4; Gaz. vol. 214; p. 340.
- Rapp, Arthur R., Chicago, Ill. Wrapping and writing paper, envelops, and gummed tape. No. 102,690; Feb. 23; Gaz. vol. 211; p. 1255.
- Rapp, Ralph, New York, N. Y. Bath-powder. No. 104,367; May 25; Gaz. vol. 214; p. 1315.
- Raster, Walther, assignor to Olympia Games Company, Chicago, Ill. Parlor game apparatus. No. 101,750; Jan. 12; Gaz. vol. 210; p. 709.
- Rattan and Cane Company, New York, N. Y. Willows and willow-cuttings. Nos. 107,280-1; Nov. 16; Gaz. vol. 220; p. 1039.
- Rattan Mfg. Co., The, New Haven, Conn. Children's vehicles. No. 103,792; Apr. 13; Gaz. vol. 213; p. 743.
- Rauh Bros. & Company, Pittsburgh, Pa. Outing-shirts. No. 102,586; Feb. 16; Gaz. vol. 211; p. 952.
- Rea-Patterson Milling Co., The, Coffeyville, Kans. Wheat-flour. Nos. 102,816-17; Feb. 23; Gaz. vol. 211; p. 1259.
- Rea-Patterson Milling Co., The, Coffeyville, Kans. Wheat-flour. No. 103,034; Mar. 16; Gaz. vol. 212; p. 1050.
- Read Stone Co., Ltd., The, Stonehaven, New Brunswick, Canada. Grindstones, scythe, oil, and whet stones. No. 105,226; July 13; Gaz. vol. 216; p. 658.
- Recher & Co., New York, N. Y. Haircloth interlining. No. 106,799; Oct. 26; Gaz. vol. 219; p. 1234.
- Reckitts (U. S. A.), Ltd., New York, N. Y., and New Brunswick, N. J. Blue and laundry articles containing blue. No. 104,481; June 1; Gaz. vol. 215; p. 318.
- Reckitts (U. S. A.), Ltd., New York, N. Y., and New Brunswick, N. J. Bluing. No. 104,750; June 15; Gaz. vol. 215; p. 972.
- Reckitts (U. S. A.) Ltd., New York, N. Y., and New Brunswick, N. J. Blue and laundry articles containing blue. No. 107,197; Nov. 16; Gaz. vol. 220; p. 1037.
- Reckitts (U. S. A.) Ltd., New York, N. Y., and New Brunswick, N. J. Metal-polishes. No. 107,450; Nov. 30; Gaz. vol. 220; p. 1715.
- Red Raven Corporation, The, Pittsburgh and Red Raven, Pa. Dentifrices. No. 102,441; Feb. 9; Gaz. vol. 211; p. 636.
- Red Square Co., Inc., New York, N. Y. Electric office-telephones. No. 105,672; Aug. 10; Gaz. vol. 217; p. 696.
- Red Square Co., Inc., New York, N. Y. Envelop-sealing machines. No. 105,673; Aug. 10; Gaz. vol. 217; p. 696.
- Red Wing Milling Company, Red Wing, Minn. Wheat-flour. No. 102,309; Feb. 2; Gaz. vol. 211; p. 281.
- Redbanks Orchard Co., Visalia, Cal. Fresh table-grapes. No. 107,583; Dec. 14; Gaz. vol. 221; p. 731.
- Redmanol Chemical Products Co., Chicago, Ill. Mouth-pieces or tips for tobacco-pipes and cigar and cigarette holders. No. 101,976; Jan. 19; Gaz. vol. 210; p. 1061.
- Redmanol Chemical Products Co., Chicago, Ill. Impregnating liquids for coating material to render it available for an insulating substance and which also protects the material against the weather and chemical actions. No. 104,751; June 15; Gaz. vol. 215; p. 972.
- Redwood Chemical Co., Newburgh, N. Y. Fire-extinguisher compound. No. 105,078; July 6; Gaz. vol. 216; p. 322.
- Reed, Alexander, New York, N. Y. Composite material used in the construction of roads and highways. Nos. 107,198-9; Nov. 16; Gaz. vol. 220; p. 1057.
- Reed, Amelia H., Chicago, Ill. Blood-purifiers and remedies for rheumatism. No. 103,826; Apr. 13; Gaz. vol. 213; p. 744.
- Reed, Etta E., Detroit, Mich. Books for teaching proper speech to those defective in hearing or speech. No. 107,200; Nov. 16; Gaz. vol. 220; p. 1037.
- Reedsburg Canning Company, Reedsburg, Wis. Canned vegetables. No. 107,003; Nov. 9; Gaz. vol. 220; p. 671.
- Rees, Alice A., Spring City, Pa. Game-boards and accessories. No. 102,903; Mar. 2; Gaz. vol. 212; p. 323.
- Reeves, Parvin & Co., Philadelphia, Pa. Canned vegetables. No. 107,097; Nov. 9; Gaz. vol. 220; p. 674.

Alphabetical list of registrants of trade-marks—Continued.

- Regal Sachet Co., Inc., New York, N. Y. Sachet-bags. No. 107,009; Nov. 9; Gaz. vol. 220; p. 671.
- Regal Shoe Company, Boston, Mass. Talcum powder. No. 104,075; Apr. 27; Gaz. vol. 213; p. 1443.
- Regan, James B., New York, N. Y. Cigars. Nos. 101,870-1; Jan. 12; Gaz. vol. 210; p. 713.
- Regents Mercantile Corporation, St. Louis, Mo. Medicinal and toilet soaps. No. 103,964; Apr. 20; Gaz. vol. 213; p. 1114.
- Regents Mercantile Corporation, St. Louis, Mo. Spices and flavoring extracts for foods. No. 105,422; July 20; Gaz. vol. 216; p. 1010.
- Regina Flour Mill Company, St. Louis, Mo. Wheat-flour. No. 102,587; Feb. 16; Gaz. vol. 211; p. 952.
- Regina Flour Mill Company, St. Louis, Mo. Wheat-flour. No. 103,914; Apr. 20; Gaz. vol. 213; p. 1113.
- Regina Flour Mill Company, St. Louis, Mo. Wheat-flour. No. 105,396; July 20; Gaz. vol. 216; p. 1009.
- Reiche, Max O., Milwaukee, Wis. Soil and seed inoculator. No. 102,904; Mar. 2; Gaz. vol. 212; p. 323.
- Reid & Co., A. L., New York, N. Y. Cotton piece goods. No. 105,752; Aug. 17; Gaz. vol. 217; p. 1050.
- Reilly, Edward J., Baltimore, Md. Liquid leather-dye. No. 105,489; July 27; Gaz. vol. 216; p. 1314.
- Reinfeil Manufacturing Company, Inc., Philadelphia, Pa. Garment-padding. No. 102,762; Feb. 23; Gaz. vol. 211; p. 1258.
- Reins & Meiss, Cincinnati, Ohio. Certain named clothing for ladies and children. No. 105,368; July 20; Gaz. vol. 216; p. 1009.
- Reiss, Pinkus, Brooklyn, N. Y. Laxative compound. No. 107,010; Nov. 9; Gaz. vol. 220; p. 671.
- Reliable Hair Store, The, Inc., Norfolk, Va. Hair-pomade or dressing for hair. No. 103,705; Apr. 13; Gaz. vol. 213; p. 741.
- Reliance Manufacturing Company, Chicago, Ill. Boys' blouses. No. 104,265; May 11; Gaz. vol. 214; p. 679.
- Reliance Manufacturing Company, Chicago, Ill. Boys' blouses. No. 104,675; June 8; Gaz. vol. 215; p. 663.
- Reliance Manufacturing Company, Chicago, Ill. Shirts. No. 105,753; Aug. 17; Gaz. vol. 217; p. 1050.
- Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 107,528; Dec. 7; Gaz. vol. 221; p. 347.
- Rellinger Bros. & Co., South Bend, Ind. Certain named toilet preparation. No. 102,947; Mar. 2; Gaz. vol. 212; p. 324.
- Remington, Eliphalet, Cazenovia, N. Y. Animal-traps. No. 103,762; Apr. 13; Gaz. vol. 213; p. 743.
- Remmers Soap Co., The, Cincinnati, Ohio. Toilet soaps. No. 103,731; Apr. 13; Gaz. vol. 213; p. 742.
- Remmers Soap Company, The, Cincinnati, Ohio. Cold-cream, face, sachet, and talcum powders, and toilet water. No. 103,935; Mar. 16; Gaz. vol. 212; p. 1050.
- Renfrew Mfg Co., Adams, Mass. Cotton piece goods. No. 105,869; Aug. 24; Gaz. vol. 217; p. 1336.
- Renfro Bros. Co., Chicago, Ill. Tea. No. 105,944; Aug. 31; Gaz. vol. 217; p. 1657.
- Rentner, M. & H., New York, N. Y. Ladies' dresses. No. 104,127; May 4; Gaz. vol. 214; p. 339.
- Renwick, Anna C., Flushing, N. Y. Dolls. No. 104,887; June 22; Gaz. vol. 215; p. 1259.
- Renzie Drug Company, The, Limited, Wellington, New Zealand. Medicines or specifics for the relief of certain named diseases. No. 104,338; May 18; Gaz. vol. 214; p. 1022.
- Repass, George G., Coatesville, Pa. Liniments for rheumatism, &c. No. 102,930; Mar. 2; Gaz. vol. 212; p. 324.
- Republic Chemical Products Company, Chicago, Ill. Deodorizer and antiseptic. No. 101,977; Jan. 19; Gaz. vol. 210; p. 1061.
- Republic Chemical Products Company, Chicago, Ill. Metal and aluminum polishes. No. 105,754; Aug. 17; Gaz. vol. 217; p. 1050.
- Republic Metalware Co., The, Buffalo, N. Y. Stovepipe-elbows. No. 105,169; July 6; Gaz. vol. 216; p. 325.
- Republic Rubber Company, The, Youngstown, Ohio. Inner tubes for tires. No. 104,482; June 1; Gaz. vol. 215; p. 318.
- Republic Rubber Company, Youngstown, Ohio. Fabric and rubber belting and hose and rubber machinery packing. No. 105,755; Aug. 17; Gaz. vol. 217; p. 1050.
- Republic Rubber Company, Youngstown, Ohio. Fabric and rubber hose. No. 105,756; Aug. 17; Gaz. vol. 217; p. 1050.
- Republic Rubber Company, The, Youngstown, Ohio. Elastic vehicle-tires. No. 106,503; Oct. 19; Gaz. vol. 219; p. 926.
- Reuther, Frederick A., Detroit, Mich. Preparation for treatment of tuberculosis. No. 107,376; Nov. 23; Gaz. vol. 220; p. 1369.
- Reuter, Gustave A., Chicago, Ill. Bakers' granulated nuts. No. 107,858; Dec. 28; Gaz. vol. 221; p. 1449.
- Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Arch-supports for boots and shoes. No. 101,872; Jan. 12; Gaz. vol. 210; p. 713.
- Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Rubber horseshoes. No. 101,873; Jan. 12; Gaz. vol. 210; p. 713.
- Revere Sugar Refinery, Portland, Me., and Boston, Mass. Sugar. No. 102,174; Jan. 26; Gaz. vol. 210; p. 1392.
- Reynolds Base-Ball Pitching Machine Co., Spokane, Wash. Base-ball-pitching machines. No. 106,901; Nov. 2; Gaz. vol. 220; p. 345.
- Reynolds, Lewis G., Richmond, Ind., assignor, by mesne assignments, to The Luna-Lite Company of America, Dover, Del. Projection-screens for motion-picture theaters. No. 101,751; Jan. 12; Gaz. vol. 210; p. 709.
- Reynolds, Lewis G., Richmond, Ind., assignor to The Luna-Lite Company of America, Dover, Del. Material for imparting color to surfaces. No. 102,539; Feb. 9; Gaz. vol. 211; p. 639.
- Reynolds, Oscar H., Winfield, Kans. Cereal substitute for coffee. No. 102,867; Feb. 23; Gaz. vol. 211; p. 1261.
- Rhein-Westf. Sicherheits-Zündschnurfabrik, Crefeld-Linn, Germany. Fuses. No. 102,616; Feb. 16; Gaz. vol. 211; p. 953.
- Rheinsche Gummi- und Celluloid-Fabrik, Mannheim-Neckarau, Germany. Dolls and other toys made of pyroxylin compounds. No. 104,499; June 1; Gaz. vol. 215; p. 319.
- Rheinstrom Bros., Cincinnati, Ohio. Cherries, pineapple, assorted fruits, &c. No. 103,598; Apr. 6; Gaz. vol. 213; p. 357.
- Rheinstrom Bros., Cincinnati, Ohio. Conserved cherries. No. 104,989; June 29; Gaz. vol. 215; p. 1495.
- Rheinstrom Bros., Cincinnati, Ohio. Conserved cherries, pineapple, and grape-fruit. No. 105,275; July 13; Gaz. vol. 216; p. 660.
- Rhoads, Oscar S., Fort Wayne, Ind. Furniture-polish and finisher of wood surfaces. No. 105,228; July 13; Gaz. vol. 216; p. 658.
- Rhode Island Textile Company, Pawtucket, R. I. Braids. No. 105,079; July 6; Gaz. vol. 216; p. 322.
- Rhodes, Arthur A. E., Lowell, Mass. Hair color imparting and lotion, scalp-salve, massage-cream. No. 105,870; Aug. 24; Gaz. vol. 217; p. 1336.
- Ribolla, Stephen A., Chicago, Ill. Phonographs and talking-machines and parts thereof except records. No. 107,201; Nov. 16; Gaz. vol. 220; p. 1037.
- Ribordy, Ceasar, New York, N. Y. Liniment for varicose veins, rheumatism, sprains. No. 106,678; Oct. 26; Gaz. vol. 219; p. 1231.
- Ric Rac Company, The, Canonsburg and Pittsburgh, Pa. Candy. No. 107,283; Nov. 16; Gaz. vol. 220; p. 1039.
- Rice Bros., Philadelphia, Pa. Compound of caramel to be added to coffee. No. 106,679; Oct. 26; Gaz. vol. 219; p. 1231.
- Rice, John B., Spencer, Ind. Pile and eczema remedy. No. 103,443; Apr. 6; Gaz. vol. 213; p. 352.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Children's blouses, overalls, coats, pants, &c. No. 101,874; Jan. 12; Gaz. vol. 210; p. 713.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton, linen, silk, and wool piece goods and mixtures thereof. No. 101,978; Jan. 19; Gaz. vol. 210; p. 1061.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Children's woven rompers, play-suits, overalls, &c. No. 102,691; Feb. 23; Gaz. vol. 211; p. 1255.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Certain named clothing for men and boys. No. 103,915; Apr. 20; Gaz. vol. 213; p. 1113.
- Rice Stix Dry Goods Company, St. Louis, Mo. Men's and boys' overalls, jumpers, work pants and shirts, &c. No. 104,363; May 25; Gaz. vol. 214; p. 1315.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Outer shirts. No. 105,556; Aug. 3; Gaz. vol. 217; p. 336.
- Rich, Ralph E., Los Angeles, Cal. Bearing metal in ingots or castings. No. 103,362; Mar. 30; Gaz. vol. 212; p. 1685.
- Rich, Ralph E., Los Angeles, Cal. Special-process metal in ingots, castings, or forgings. No. 105,611; Aug. 10; Gaz. vol. 217; p. 694.
- Richard Hudnut, New York, N. Y. Certain named toilet preparations. No. 101,945; Jan. 19; Gaz. vol. 210; p. 1060.
- Richard Hudnut, New York, N. Y. Soap, solid and liquid. No. 101,946; Jan. 19; Gaz. vol. 210; p. 1060.
- Richard Hudnut, New York, N. Y. Soap, solid and liquid. No. 102,412; Feb. 9; Gaz. vol. 211; p. 635.
- Richard Hudnut, New York, N. Y. Certain named pharmaceutical preparations for toilet purposes. No. 104,728; June 15; Gaz. vol. 215; p. 972.
- Richard Hudnut, New York, N. Y. Creams for the skin. No. 105,162; July 6; Gaz. vol. 216; p. 324.
- Richard Hudnut, New York, N. Y. Certain pharmaceutical preparations for toilet purposes. No. 105,418; July 20; Gaz. vol. 216; p. 1010.
- Richard Hudnut, New York, N. Y. Certain named pharmaceutical preparations for toilet use. No. 105,484; July 27; Gaz. vol. 216; p. 1314.
- Richard Hudnut, New York, N. Y. Certain named pharmaceutical preparations. No. 105,535; Aug. 3; Gaz. vol. 217; p. 336.
- Richard Hudnut, New York, N. Y. Certain named toilet and pharmaceutical preparations. Nos. 106,231-2; Oct. 19; Gaz. vol. 219; p. 918.

- Richard Hudnut, New York, N. Y. Certain named pharmaceutical preparation. No. 106,863; Nov. 2; Gaz. vol. 220; p. 344.
- Richard Schnibbe, Inc., Brooklyn, N. Y. Smoked fish, cervelat, and salame sausage. No. 104,954; June 29; Gaz. vol. 215; p. 1494.
- Richard Young Company, New York, N. Y. Leather. No. 105,406; July 20; Gaz. vol. 216; p. 1010.
- Richards, Mary J., Coatesville, Pa. Cough medicine. No. 105,227; July 13; Gaz. vol. 216; p. 658.
- Richardson, Alonzo F., New York, N. Y. Medicinal tonics. No. 104,311; May 18; Gaz. vol. 214; p. 1022.
- Richardson & Boynton Company, New York, N. Y.; Chicago, Ill.; Boston, Mass.; Philadelphia, Pa.; Kansas City, Mo.; Minneapolis, Minn., and Providence, R. I. Heaters, boilers, ranges, stoves, &c. No. 103,732; Apr. 13; Gaz. vol. 213; p. 742.
- Richardson, Wellington G., Cambridge, Mass. Life-preservers. No. 105,276; July 13; Gaz. vol. 216; p. 660.
- Richmond Hosiery Mills, Rossville, Ga. Hosiery. Nos. 107,635-6; Dec. 14; Gaz. vol. 221; p. 733.
- Rickard, Gerald, Baltimore, Md. Chocolates and bonbons. No. 106,504; Oct. 19; Gaz. vol. 219; p. 926.
- Riddle, Harry M., Asbury, N. J. East India silver-leaf, Ceylon plumbago, and flake graphite. No. 106,180; Oct. 12; Gaz. vol. 219; p. 583.
- Ridgway & Son, B., Philadelphia, Pa. Natural-stone tile. No. 102,176; Jan. 26; Gaz. vol. 210; p. 1392.
- Ridgely, Walter B., Baltimore, Md. Ointment. No. 106,181; Oct. 12; Gaz. vol. 219; p. 584.
- Ries, Arthur J. H., Alden, Iowa. Foot-powder. No. 103,626; Apr. 6; Gaz. vol. 213; p. 358.
- Risgl, Joseph A., Brooklyn, N. Y. Chewing-gum. No. 103,678; Apr. 13; Gaz. vol. 213; p. 740.
- Rigney & Company, Inc., Brooklyn, N. Y. Certain named candies, syrups, and honey. No. 104,572; June 1; Gaz. vol. 215; p. 321.
- Riker & Hegeman Co., New York, N. Y. Preparations for biliousness, constipation, and headaches. No. 102,982; Mar. 9; Gaz. vol. 212; p. 685.
- Riker & Hegeman Co., New York, N. Y. Nutritive tonics. No. 102,983; Mar. 9; Gaz. vol. 212; p. 685.
- Riker & Hegeman Co., New York, N. Y. Preparations for the feet. No. 102,984; Mar. 9; Gaz. vol. 212; p. 686.
- Riker & Hegeman Co., New York, N. Y. Medicinal preparation. No. 102,985; Mar. 9; Gaz. vol. 212; p. 686.
- Riker & Hegeman Co., New York, N. Y. Lip salves and rouges. No. 105,965; Aug. 31; Gaz. vol. 217; p. 1658.
- Riker & Hegeman Co., New York, N. Y. Toilet waters and powders, colognes, perfumes. No. 107,202; Nov. 16; Gaz. vol. 220; p. 1037.
- Riker & Hegeman Co., New York, N. Y. Handkerchief extract perfumes and talcum powder. No. 107,284; Nov. 16; Gaz. vol. 220; p. 1039.
- Rimolox Tire Carrier Company, The, Evansville, Ind. Tire carriers or supports for carrying extra tires attached to demountable rims. No. 102,540; Feb. 9; Gaz. vol. 211; p. 639.
- Rising & Nelson Slate Co., West Pawlet, Vt. Slate and roofing-slate. No. 106,903; Nov. 2; Gaz. vol. 220; p. 345.
- Rife Specialty Co., New York, N. Y. Raspberry confection, a laxative. No. 103,180; Mar. 16; Gaz. vol. 212; p. 1054.
- Ritsert, Dr. Eduard, Frankfort-on-the-Main, Germany. Antiseptics for internal and external use. No. 107,098; Nov. 9; Gaz. vol. 220; p. 674.
- Ritter, Frank, Rochester, N. Y. Dental engines. No. 107,011; Nov. 9; Gaz. vol. 220; p. 671.
- Ritter-Hennings Co., Louisville, Ky. Scratch, baby-chick, and mash horse feeds. No. 107,859; Dec. 28; Gaz. vol. 221; p. 1449.
- Ritter Hosiery Company, Fleetwood, Pa. Hosiery. No. 102,810; Feb. 2; Gaz. vol. 211; p. 281.
- Rivears, Lena, Portland, Oreg. Cold-cream and skin-cleanser. No. 104,515; June 1; Gaz. vol. 215; p. 319.
- Rivera, Abraham, San Salvador, Salvador. Remedy for certain named ailments. No. 107,764; Dec. 28; Gaz. vol. 221; p. 1446.
- Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Drills. No. 106,680; Oct. 26; Gaz. vol. 219; p. 1231.
- Robert A. Johnston Co., Milwaukee, Wis. Biscuit. No. 102,282; Feb. 2; Gaz. vol. 211; p. 280.
- Robert A. Johnston Co., Milwaukee, Wis. Cookies and cakes. No. 107,343; Nov. 23; Gaz. vol. 220; p. 1368.
- Robert A. Woodridge Co., Baltimore, Md. Fertilizers. No. 106,721; Oct. 26; Gaz. vol. 219; p. 1232.
- Robert A. Woodridge Company, The, Baltimore, Md. Fertilizers. No. 102,322; Feb. 2; Gaz. vol. 211; p. 281.
- Robert A. Woodridge Company, The, Baltimore, Md. Fertilizers. No. 105,885; Aug. 24; Gaz. vol. 217; p. 1336.
- Robert Brown, Limited, Glasgow, Scotland, and London, England. Whisky. No. 102,677; Feb. 23; Gaz. vol. 211; p. 1255.
- Robert F. Mackenzie Co., The, Cleveland, Ohio. Candy. No. 106,983; Nov. 9; Gaz. vol. 220; p. 671.
- Robert Ogilvy Co., New York, N. Y. Fish-hooks and fishing-tackle. Nos. 103,672-3; Apr. 13; Gaz. vol. 213; p. 740.
- Roberts Bros., Flour Mills, Inc., Batavia, N. Y. Wheat-flour. No. 102,813; Feb. 23; Gaz. vol. 211; p. 1259.
- Roberts Cone Manufacturing Co., St. Joseph, Mo. Ice-cream cones. No. 107,099; Nov. 9; Gaz. vol. 220; p. 674.
- Robins, Martha E., Richmond, Va. Liquid iodine preparation. No. 105,080; July 6; Gaz. vol. 216; p. 322.
- Robinson & Company, J., New York, N. Y. Kerchiefs and handkerchiefs. Nos. 106,904-5; Nov. 2; Gaz. vol. 220; p. 345.
- Robinson, David H., New York, N. Y. Rain, cravenetted, and rubber coats. No. 103,827; Apr. 13; Gaz. vol. 213; p. 744.
- Robinson, R. D., Cincinnati, Ohio. Electric equipments for power washing-machines. No. 105,757; Aug. 17; Gaz. vol. 217; p. 1050.
- Robinson, Tempy, Guthrie, Okla. Dropsy, kidney, bladder, and stomach troubles. No. 105,871; Aug. 24; Gaz. vol. 217; p. 1336.
- Robison & Son, G., New York, N. Y. Yarn. No. 105,229; July 13; Gaz. vol. 216; p. 658.
- Roby, Frank F., Kearney, Nebr. Certain named flours and breakfast foods. No. 103,445; Apr. 6; Gaz. vol. 213; p. 352.
- Rocca & Co., D., New York, N. Y. Olive-oil. No. 102,541; Feb. 9; Gaz. vol. 211; p. 639.
- Rochau, Albert D., Michigan City, Ind. Covering for ironing-boards. No. 104,547; June 1; Gaz. vol. 215; p. 320.
- Rochester Candy Works, Rochester, N. Y. Marshmallows. No. 103,398; Mar. 30; Gaz. vol. 212; p. 1686.
- Rock, John G., New Rochelle, N. Y. Shock-absorbers for automobiles. No. 105,230; July 13; Gaz. vol. 216; p. 658.
- Rodenhausen, Carl, Chicago, Ill. Paste for use in plumbing in the making of joints. No. 103,793; Apr. 13; Gaz. vol. 213; p. 743.
- Rodgers-Wade Furniture Co., Paris, Tex. Wooden furniture. No. 102,442; Feb. 9; Gaz. vol. 211; p. 636.
- Rodriguez, Juan, Habana, Cuba. Cordial. No. 105,369; July 20; Gaz. vol. 216; p. 1009.
- Roehm-Richards Co., The, Dayton, Ohio. Linen and cotton white-duck suits. Nos. 103,763-4; Apr. 13; Gaz. vol. 213; p. 743.
- Roessel & Co., Louis, New York, N. Y. Silks in the piece. No. 104,006; Apr. 27; Gaz. vol. 213; p. 1441.
- Roessler & Hasslacher Chemical Co., New York, N. Y. Chemicals producing a peroxid solution when dissolved in water. No. 102,443; Feb. 9; Gaz. vol. 211; p. 636.
- Roessler & Hasslacher Chemical Co., New York, N. Y. Cyanids. No. 105,872; Aug. 24; Gaz. vol. 217; p. 1336.
- Roethlisberger & Co., New York, N. Y. Cheese. No. 101,979; Jan. 19; Gaz. vol. 210; p. 1061.
- Roethlisberger & Co., New York, N. Y. Cheese. No. 107,377; Nov. 23; Gaz. vol. 220; p. 1369.
- Roff, M. A., Fresno, Cal. Raisins and figs. No. 102,444; Feb. 9; Gaz. vol. 211; p. 636.
- Rogers Brothers & Kevan, Petersburg, Va. Trunks, bags, and suitcases. No. 107,717; Dec. 21; Gaz. vol. 221; p. 1036.
- Rogers, Edwin A., Boston, Mass. Adhesive. No. 106,182; Oct. 12; Gaz. vol. 219; p. 584.
- Rogers Peet Company, New York, N. Y. Certain named games, sporting goods, and gymnasium supplies. No. 103,121; Mar. 16; Gaz. vol. 212; p. 1052.
- Rogers Peet Company, New York, N. Y. Outer suits and overcoats. No. 104,952; June 29; Gaz. vol. 215; p. 1494.
- Rogers Peet Company, New York, N. Y. Shoes. No. 106,366; Oct. 19; Gaz. vol. 219; p. 922.
- Rogers, Theodora W., Columbus, Ohio. Knitted drawers. No. 107,637; Dec. 14; Gaz. vol. 221; p. 733.
- Rogers & Thompson, Inc., New York, N. Y. Cotton piece goods. No. 106,681; Oct. 26; Gaz. vol. 219; p. 1231.
- Rogers, W. G., Madison, Ind. Toilet cream. No. 102,542; Feb. 9; Gaz. vol. 211; p. 639.
- Rogue River Fruit & Produce Association, Medford, Oreg. Fresh apples, pears, peaches, plums, &c. No. 106,055; Sept. 21; Gaz. vol. 218; p. 873.
- Rohe & Brother, New York, N. Y. Lard. No. 103,733; Apr. 13; Gaz. vol. 213; p. 742.
- Rohrer Candy Company, Bellevue, Ky. Confections. No. 106,017; Sept. 14; Gaz. vol. 218; p. 599.
- Rojas Electrochemical Co., New York, N. Y. Electroplated metals. No. 105,398; July 20; Gaz. vol. 216; p. 1009.
- Roland Co., The, Seattle, Wash. Food-flavor. No. 106,018; Sept. 14; Gaz. vol. 218; p. 599.
- Rollinson, William H., New York, N. Y. Pile goods in the piece, made of cotton and silk or wool plush, velours, and velvets. No. 106,682; Oct. 26; Gaz. vol. 219; p. 1231.
- Ronald Trist and Company, Limited, London, England. Automatic boiler-feeds and pump-governors. No. 102,820; Feb. 23; Gaz. vol. 211; p. 1259.

Alphabetical list of registrants of trade-marks—Continued.

- Roos Mfg. Co., The, Chicago, Ill. Cedar chests and utility-boxes. No. 106,367; Oct. 19; Gaz. vol. 219; p. 922.
- Roos Mfg. Co., The, Chicago, Ill. Wooden curtain-poles and brackets and trimmings, folding draft-screens. No. 106,368; Oct. 19; Gaz. vol. 219; p. 922.
- Root-Knight Co. Inc., New York, N. Y. Imitation lemon-juice. No. 101,980; Jan. 19; Gaz. vol. 210; p. 1061.
- Rose, Granville P., Jr., Nashville, Tenn. Metal-polish. No. 105,231; July 13; Gaz. vol. 216; p. 658.
- Rose-Rogers Co., Dallas, Tex. Overalls, jumpers, overall-coats, and pants. No. 104,953; June 29; Gaz. vol. 215; p. 1494.
- Rose-Rogers Co., Dallas, Tex. Overalls, jumpers, coats, and trousers. Nos. 106,505-6; Oct. 19; Gaz. vol. 219; p. 926.
- Rosegold Manufacturing Co., The, Worcester, Mass. Ladies' and misses' dresses. No. 104,156; May 4; Gaz. vol. 214; p. 340.
- Rosen, Plechner & Lipschutz, New York, N. Y. Velvets, velveteens, and corduroys. No. 106,800; Oct. 26; Gaz. vol. 219; p. 1234.
- Rosenbaum, Israel, New York, N. Y. Boots and shoes of leather and fabric. No. 102,692; Feb. 23; Gaz. vol. 211; p. 1255.
- Rosenbaum, Louis, New York, N. Y. Gas-irons. No. 102,543; Feb. 9; Gaz. vol. 211; p. 639.
- Rosenberg Bros. & Co., San Francisco, Cal. Seeded raisins. No. 106,683; Oct. 26; Gaz. vol. 219; p. 1231.
- Rosenberg, Casper, Cleveland, Ohio. Cigars, cheroots, cigarettes, and stogies. No. 103,877; Apr. 20; Gaz. vol. 213; p. 1112.
- Rosenberg, Hani A., New York, N. Y. Hair tonic, restorer, and pomade. No. 104,548; June 1; Gaz. vol. 216; p. 320.
- Rosenberg, Jerome D., New York, N. Y. Book of nursery-rhymes and adhesive illustrative posters issued in series. No. 104,807; June 15; Gaz. vol. 215; p. 974.
- Rosenfeld Bros. & Co., Chicago, Ill. Whisky. No. 101,752; Jan. 12; Gaz. vol. 210; p. 709.
- Rosenthal & Bros., Samuel, New York, N. Y. Men's and youths' outer suits and overcoats. No. 106,507; Oct. 19; Gaz. vol. 219; p. 926.
- Ross W. Weir & Co., Inc., New York, N. Y. Coffee. No. 103,981; Apr. 20; Gaz. vol. 213; p. 1115.
- Rossmann, Edward, Baltimore, Md. Disinfectant, germicide, and deodorizer preparation. No. 107,480; Dec. 7; Gaz. vol. 221; p. 345.
- Roth & Co., New York, N. Y., and Uster-Zurich, Switzerland. Foreign and domestic cheese. No. 103,965; Apr. 20; Gaz. vol. 213; p. 1114.
- Rothstein, Rosenberg & Salny Inc., New York, N. Y. Overcoats. No. 105,081; July 6; Gaz. vol. 216; p. 322.
- Rothweiler & Co., Seattle, Wash. Automobile-pumps. No. 102,931; Mar. 2; Gaz. vol. 212; p. 324.
- Rovegno, D. & J., New York, N. Y. Candy. No. 107,765; Dec. 28; Gaz. vol. 221; p. 1446.
- Rowe Sanitary Mfg. Co., Detroit, Mich. Chemical closets and sanitary washstands. No. 104,483; June 1; Gaz. vol. 215; p. 318.
- Rowland Manufacturing Co., J. B., Yonkers, N. Y. Doll-form. No. 103,122; Mar. 16; Gaz. vol. 212; p. 1053.
- Rowles, Ernest W. A., Chicago, Ill. Chalk writing-crayons. No. 107,013; Nov. 9; Gaz. vol. 220; p. 672.
- Rowley & Co., Ltd., Robert, Leicester, England. Knitted underclothing. No. 105,557; Aug. 3; Gaz. vol. 217; p. 336.
- Roy, François, Paris, France. Lactic ferments for treatment of the intestines and stomach. No. 105,558; Aug. 3; Gaz. vol. 217; p. 336.
- Royal Brush Company, The, Osaka, Japan. Tooth and toilet brushes. No. 101,681; Jan. 5; Gaz. vol. 210; p. 395.
- Royal Equipment Company, The, Bridgeport, Conn. Brake-lining. No. 102,640; Feb. 16; Gaz. vol. 211; p. 953.
- Royal Manufacturing Company, Rahway, N. J. Cotton and wool waste. No. 107,530; Dec. 7; Gaz. vol. 221; p. 347.
- Royal Mfg. Co., Gloucester and Boston, Mass.; New York, N. Y., and Chicago, Ill. Dresses. No. 105,966; Aug. 31; Gaz. vol. 217; p. 1058.
- Royal Serum Company, The, Kansas City, Mo., and Kansas City, Kans. Anti-hog-cholera serum and hog-cholera virus. No. 106,259; Oct. 19; Gaz. vol. 219; p. 919.
- Royal Skirt & Dress M'fg Co., Boston, Mass. Ladies' outer skirts and dresses. No. 102,658; Feb. 16; Gaz. vol. 211; p. 954.
- Royal Typewriter Co., Inc., New York, N. Y. Type-writing machines and parts thereof. No. 103,679; Apr. 13; Gaz. vol. 213; p. 740.
- Rubel, Carrie H., Philadelphia, Pa. Medicine for diseases of the kidneys, bladder, and urinary organs. No. 106,019; Sept. 14; Gaz. vol. 218; p. 599.
- Rubel, Jacob, New York, N. Y. Powdered antiseptic. No. 105,141; July 6; Gaz. vol. 216; p. 324.
- Ruben, Charles, Pittsburgh, Pa. Neckties. No. 105,142; July 6; Gaz. vol. 216; p. 324.
- Rubenstein, Louis, Alexandria, La. Party-boxes. No. 102,178; Jan. 26; Gaz. vol. 210; p. 1392.
- Rudd, Cicero, Lineville, Ala. Remedy for disorders of the liver. No. 107,384; Nov. 23; Gaz. vol. 220; p. 1369.
- Rudge-Whitworth, Limited, Coventry, England. Wheels for motor cars and cycles, automobiles, and cycle-cars. No. 104,396; May 25; Gaz. vol. 214; p. 1316.
- Rudge-Whitworth, Limited, Coventry, England. Motor cars and cycles, automobiles, and cycle-cars. No. 104,397; May 25; Gaz. vol. 214; p. 1316.
- Rudolph Saenger Co., New York, N. Y. Hair-nets. Nos. 104,573-6; June 1; Gaz. vol. 215; p. 321.
- Rudolph Saenger Co., New York, N. Y. Hair-nets. No. 106,508; Oct. 19; Gaz. vol. 219; p. 926.
- Rullman, Walter A., Red Bank, N. J. Remedy for chronic constipation with associated intestinal atony. No. 102,641; Feb. 16; Gaz. vol. 211; p. 953.
- Rullman, Walter A., Red Bank, N. J. Remedy for diabetes, mellitus, undernutrition, &c. No. 102,642; Feb. 16; Gaz. vol. 211; p. 953.
- Rullman, Walter A., Red Bank, N. J. Uric-acid eliminant, urinary and intestinal antiseptic. No. 102,693; Feb. 23; Gaz. vol. 211; p. 1256.
- Rullman, Walter A., Red Bank, N. J. Medicated cereal for chronic constipation. No. 106,183; Oct. 12; Gaz. vol. 219; p. 584.
- Rundle Novelty Co. Inc., Columbus, Ohio. Hand-propelled children's wagons. No. 107,385; Nov. 23; Gaz. vol. 220; p. 1369.
- Runkel Brothers, Inc., New York, N. Y. Cocoa. No. 106,684; Oct. 26; Gaz. vol. 219; p. 1231.
- Runkel Brothers, Incorporated, New York, N. Y. Cocoa and milk chocolate. No. 105,370; July 20; Gaz. vol. 216; p. 1009.
- Rush, Joseph K., Syracuse, N. Y. Artificial bait. No. 104,991; June 29; Gaz. vol. 215; p. 1495.
- Russell Falls Company, Boston and Russell, Mass. Bond and ledger paper. Nos. 106,369-70; Oct. 19; Gaz. vol. 219; p. 922.
- Russell-Miller, Milling Company, Minneapolis, Minn. Bread. No. 104,648; June 8; Gaz. vol. 215; p. 663.
- Rust-Parker-Martin Company, Augusta, Me., and Duluth, Minn. Certain named foods. No. 104,128; May 4; Gaz. vol. 214; p. 339.
- Rust-Parker-Martin Company, Augusta, Me., and Duluth, Minn. Dried beef, bloaters, smoked herring, &c. No. 104,129; May 4; Gaz. vol. 214; p. 339.
- Rutherford Rubber Company, Rutherford, N. J. Snap-on treads for vehicle-tires. No. 103,878; Apr. 20; Gaz. vol. 213; p. 1112.
- Rutherford Rubber Company, Rutherford, N. J. Real-rubber bumpers for automobile-springs. No. 103,967; Apr. 20; Gaz. vol. 213; p. 1114.
- Rutherford Rubber Company, Rutherford, N. J. Fiber hoof-protectors. No. 104,233; May 11; Gaz. vol. 214; p. 678.
- Ruyle, Henry J., Springfield, Mo. Remedy for liver and constipation. No. 102,694; Feb. 23; Gaz. vol. 211; p. 1256.
- Ryan, John J., Albany, N. Y. Certain biographical sketches for publications. No. 103,571; Apr. 6; Gaz. vol. 213; p. 356.
- Ryan Leather Co., Newark, N. J. Finished leather. No. 107,481; Dec. 7; Gaz. vol. 221; p. 345.
- Ryff & Co. A. G. Strickwarenfabrik Bern, Berne, Switzerland. Knitted underwear. No. 101,795; Jan. 12; Gaz. vol. 210; p. 711.
- S. Liebmann's Sons Brewing Company, Brooklyn, N. Y. Beer. No. 101,960; Jan. 19; Gaz. vol. 210; p. 1061.
- S. Liebmann's Sons Brewing Company, Brooklyn, N. Y. Beer. Nos. 102,124-5; Jan. 26; Gaz. vol. 210; p. 1390.
- S. Thalmann & Schwab m. b. H., The, Frankfurt-on-the-Main, Germany. Foods. No. 106,700; Oct. 26; Gaz. vol. 219; p. 1231.
- S. H. Kress and Company, New York, N. Y. Hosiery. Nos. 103,461-70; Apr. 6; Gaz. vol. 213; pp. 352-3.
- S. H. Kress & Company, New York, N. Y. Hosiery. No. 106,631; Oct. 26; Gaz. vol. 219; p. 1229.
- S. H. Kress & Company, New York, N. Y. Hosiery. Nos. 106,774-81; Oct. 26; Gaz. vol. 219; p. 1234.
- S. S. Pierce Co., Boston, Mass. Tea. No. 107,004; Nov. 9; Gaz. vol. 220; p. 671.
- S. S. Pierce Co., Boston, Mass. Canned pineapple. No. 107,095; Nov. 9; Gaz. vol. 220; p. 674.
- S. S. Pierce Co., Boston, Mass. Tea. No. 107,275; Nov. 16; Gaz. vol. 220; p. 1039.
- S. S. Pierce Co., Boston, Mass. Italian pastes comprising spaghetti, "alphabets," &c. No. 107,276; Nov. 16; Gaz. vol. 220; p. 1039.
- S. S. Pierce Co., Boston, Mass. Smoking-tobacco. No. 107,277; Nov. 16; Gaz. vol. 220; p. 1039.
- S. W. Long & Co. Inc., New York, N. Y. Certain named piece goods. No. 105,465; July 27; Gaz. vol. 216; p. 1314.
- Sächsische Wollgarnfabrik Aktiengesellschaft, Leipzig-Plagwitz, Germany. Worsted yarn. No. 107,100; Nov. 9; Gaz. vol. 220; p. 674.
- Saenger Brothers, Shreveport, La. Remedy for the liver and kidneys. No. 101,717; Jan. 5; Gaz. vol. 210; p. 396.
- Safe-Cabinet Company, Marietta, Ohio. Weekly periodical. No. 103,879; Apr. 20; Gaz. vol. 213; p. 1112.

- Safe-Cabinet Company, The, Marietta, Ohio. Heat-resisting cabinets and safes. Nos. 106,509-10; Oct. 19; Gaz. vol. 219; p. 926.
- Safety Vapor Heating Co., Buffalo, N. Y. Valves for heating apparatus and damper-regulators. No. 104,484; June 1; Gaz. vol. 215; p. 318.
- Safety Wire Gas Globe Co., The, Columbus, Ohio. Mantle-protectors of wire mesh for gas, gasoline, and acetylene burners. No. 107,531; Dec. 7; Gaz. vol. 221; p. 347.
- Sakonnet Knitting Mills, Pawtucket, R. I. Knit underwear. No. 102,179; Jan. 26; Gaz. vol. 210; p. 1392.
- Salant & Salant, New York, N. Y. Outer shirts. No. 101,718; Jan. 5; Gaz. vol. 210; p. 396.
- Salant & Salant, New York, N. Y. Work-shirts. No. 102,311; Feb. 2; Gaz. vol. 211; p. 281.
- Salant & Salant, New York, N. Y. Box or carton used as a container for wearing-apparel. No. 107,203; Nov. 16; Gaz. vol. 220; p. 1037.
- Salleo & Shaughnessy Co., Detroit, Mich. Hair-tonic. No. 105,559; Aug. 3; Gaz. vol. 217; p. 336.
- Salomon Bros., New York, N. Y. Cigars. No. 103,363; Mar. 30; Gaz. vol. 212; p. 1685.
- Salt Lake Hardware Co., Salt Lake City, Utah. Washing-machines and wringers. No. 105,232; July 13; Gaz. vol. 216; p. 653.
- Salt Lick Milling Company, Valmeyer, Ill. Wheat-flour. No. 105,518; Aug. 3; Gaz. vol. 217; p. 335.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. Nos. 101,796-7; Jan. 12; Gaz. vol. 210; p. 711.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. No. 102,180; Jan. 26; Gaz. vol. 210; p. 1392.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, and capes. Nos. 102,181-2; Jan. 26; Gaz. vol. 210; p. 1392.
- Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, and capes. No. 102,449; Feb. 9; Gaz. vol. 211; p. 636.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. Nos. 104,173-4; May 4; Gaz. vol. 214; p. 340.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, and capes. No. 104,266; May 11; Gaz. vol. 214; p. 679.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, and capes. Nos. 104,677-8; June 8; Gaz. vol. 215; p. 663.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. No. 104,842; June 22; Gaz. vol. 215; p. 1257.
- Salts Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, suits, costumes, and capes. No. 105,371; July 20; Gaz. vol. 216; p. 1009.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. No. 105,490; July 27; Gaz. vol. 216; p. 1315.
- Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. No. 105,612; Aug. 10; Gaz. vol. 217; p. 694.
- Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, capes, and hats. Nos. 105,613-14; Aug. 10; Gaz. vol. 217; p. 694.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. No. 106,511; Oct. 19; Gaz. vol. 219; p. 926.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. No. 106,907; Nov. 2; Gaz. vol. 220; p. 345.
- Samaha & Bro., S. N., Washington, D. C. Preserved fruit-pulp, jellies, vinegar, and mustard. No. 104,916; June 22; Gaz. vol. 215; p. 1259.
- Samson Electric Company, Canton, Mass. Open-circuit electric batteries. No. 101,876; Jan. 12; Gaz. vol. 210; p. 713.
- Samuel Hird & Sons, Inc., Passaic, N. J., and New York, N. Y. Worsted piece goods. No. 105,410; July 20; Gaz. vol. 216; p. 1010.
- Samuel Olson & Company, Chicago, Ill. Certain store-service equipment. No. 102,148; Jan. 26; Gaz. vol. 210; p. 1391.
- San Antonio Drug Company, San Antonio, Tex. Olive-oil. No. 104,577; June 1; Gaz. vol. 215; p. 321.
- San Francisco Sulphur Co., San Francisco, Cal. Flowers of sulfur. No. 106,685; Oct. 26; Gaz. vol. 219; p. 1231.
- San Joaquin County Table Grape Growers Ass'n, Lodi, Cal. Fresh grapes. No. 102,450; Feb. 9; Gaz. vol. 211; p. 636.
- Sanchez Leal Hermanos, Puerto de Santa Maria, Spain. Cordial, a compound. No. 105,204; July 13; Gaz. vol. 216; p. 658.
- Sander Mfg. Co., Newark, N. J. Meat-choppers and parts thereof. No. 106,123; Oct. 12; Gaz. vol. 219; p. 926.
- Sandlerbräu, Ges. m. b. Hftg., Kulmbach, Germany. Beer. No. 103,036; Mar. 16; Gaz. vol. 212; p. 1050.
- Sands-Buckley Company, Pittsburgh, Pa. Chewing-gum. No. 107,386; Nov. 23; Gaz. vol. 220; p. 1369.
- Sands, Taylor & Wood Company, Boston, Mass. Wheat-flour. No. 104,234; May 11; Gaz. vol. 214; p. 678.
- Sandusky Portland Cement Company, The, Baybridge and Sandusky, Ohio. White Portland cement. No. 106,260; Oct. 19; Gaz. vol. 219; p. 919.
- Sandusky Portland Cement Company, The, Baybridge and Sandusky, Ohio. Waterproofing compounds for mortar and concrete. No. 106,908; Nov. 2; Gaz. vol. 220; p. 345.
- Sangamo Electric Company, Springfield, Ill. Electricity-meters, electric indicators, testing apparatus, &c. No. 105,828; Aug. 17; Gaz. vol. 217; p. 1052.
- Sanitary Earthenware Specialty Co., The, Trenton, N. J. Sinks, basins, lavatories, closets, &c. No. 101,981; Jan. 19; Gaz. vol. 210; p. 1061.
- Sanitary Food Manufacturing Company, St. Paul, Minn. Certain named foods. No. 102,342; Feb. 9; Gaz. vol. 211; p. 633.
- Sanitary Food Manufacturing Company, St. Paul, Minn. Wafers or crackers. No. 103,073; Mar. 16; Gaz. vol. 212; p. 1051.
- Sanitary Food Products Co., New York, N. Y. Certain named foods. No. 103,916; Apr. 20; Gaz. vol. 213; p. 1113.
- Sanitary Ice-Cream Sandwich Company. (See McDonald, Charles R., assignor.)
- Sanitary Manufacturing Company, New York, N. Y. Fumigating and deodorizing liquids. No. 102,617; Feb. 16; Gaz. vol. 211; p. 953.
- Sanitary Welt Insole Company, Saco, Me., and Boston, Mass. Insoles for shoes. No. 102,183; Jan. 26; Gaz. vol. 210; p. 1392.
- Sansby Brothers, St. Paul, Minn. Medicinal compound for diseases of women. No. 103,399; Mar. 30; Gaz. vol. 212; p. 1686.
- Santa Clara Company, Boston, Mass. Whisky, grenade and rock-candy syrup, and lime-juice. No. 103,599; Apr. 6; Gaz. vol. 213; p. 357.
- Santo Rubber Co., The, Wilmington, Del., and Pittsburgh, Pa. Rubber and gutta-percha balls. No. 101,650; Jan. 5; Gaz. vol. 210; p. 394.
- Sapah, Naman, Brooklyn, N. Y. Remedial oil for topical use. No. 104,843; June 22; Gaz. vol. 215; p. 1257.
- Sargeant and Rice Company, Nebraska City, Nebr. Canned vegetables. No. 102,451; Feb. 9; Gaz. vol. 211; p. 636.
- Sargent Brush Co., Manchester, N. H. Brushes and mops. No. 102,986; Mar. 9; Gaz. vol. 212; p. 686.
- Sargent & Company, New Haven, Conn. Certain named cutlery and tools. No. 104,293; May 18; Gaz. vol. 214; p. 1021.
- Sargent & Company, New Haven, Conn. Certain named hardware supplies. No. 104,294; May 18; Gaz. vol. 214; p. 1021.
- Sargent & Company, New Haven, Conn. Certain named measuring and scientific appliances. No. 104,649; June 8; Gaz. vol. 215; p. 663.
- Sargent & Company, New Haven, Conn. Certain named cutlery and tools. No. 104,650; June 8; Gaz. vol. 215; p. 663.
- Sargent & Company, New Haven, Conn. Locks, latches, keys, padlocks, &c. No. 104,651; June 8; Gaz. vol. 215; p. 663.
- Sarle, Harriet A., New York, N. Y. Writing-paper. No. 104,778; June 15; Gaz. vol. 215; p. 973.
- Sarle, Harriet A., New York, N. Y., assignor to John F. Sarle Company. Writing-paper. No. 106,801; Oct. 26; Gaz. vol. 219; p. 1235.
- Satterfield, Robert W., Cleveland, Ohio. Cartoons and drawings. No. 103,446; Apr. 6; Gaz. vol. 213; p. 352.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet-paper. Nos. 104,779-83; June 15; Gaz. vol. 215; p. 973.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet-paper. No. 105,674; Aug. 10; Gaz. vol. 217; p. 696.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet-paper. Nos. 107,671-2; Dec. 14; Gaz. vol. 221; p. 734.
- Sauquoit Toilet Paper Co., New Hartford, N. Y. Toilet-paper. No. 107,695; Dec. 21; Gaz. vol. 221; p. 1035.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet-paper. Nos. 107,860-2; Dec. 28; Gaz. vol. 221; p. 1449.
- Sauté Products Corporation, New York, N. Y. Pure butter of coconut for frying, &c. No. 104,549; June 1; Gaz. vol. 215; p. 320.
- Savage, M. W., Minneapolis, Minn. Certain named medicines and pharmaceutical preparations. No. 107,015; Nov. 9; Gaz. vol. 220; p. 672.
- Savage Tire Co., The, San Diego, Cal. Inner tubes or air-tubes for vehicle-tires. No. 103,074; Mar. 16; Gaz. vol. 212; p. 1051.
- Savage Tire Company, The, San Diego, Cal. Metallic vehicle-tires. No. 101,877; Jan. 12; Gaz. vol. 210; p. 713.
- Saward, Frederick E., New York, N. Y. Weekly trade journal. No. 106,512; Oct. 19; Gaz. vol. 219; p. 926.
- Sazel Corporation, Pierre, S. D., and Chicago, Ill. Antiseptic compound. No. 102,184; Jan. 26; Gaz. vol. 210; p. 1392.
- Sazel Corporation, Pierre, S. D., and Chicago, Ill. Antiseptic compound medicines. No. 102,185; Jan. 26; Gaz. vol. 210; p. 1392.

Alphabetical list of registrants of trade-marks—Continued.

- Scandinavia Belting Ltd., London, England. Hair belting. No. 105,143; July 6; Gaz. vol. 216; p. 324.
- Schabel, Edwin J., Cleveland, Ohio. Household and carpet cleansers, hand-soap, and stove-polisher. No. 102,452; Feb. 9; Gaz. vol. 211; p. 636.
- Schamberg, Egmont, Berlin-Halsensee, Germany. Preparations containing radium and having radio-active properties. No. 104,992; June 29; Gaz. vol. 215; p. 1495.
- Schein Brothers, New York, N. Y. Jewelry. No. 106,261; Oct. 19; Gaz. vol. 219; p. 919.
- Scheuer & Sons, Herman, New York, N. Y. Wallets, pocket-books, and bill-folds. No. 102,763; Feb. 23; Gaz. vol. 211; p. 1258.
- Schieffelin & Company, New York, N. Y. Nutritive powder, paste, or compressed tablet for flavoring, &c. No. 102,186; Jan. 26; Gaz. vol. 210; p. 1392.
- Schieffelin, William J., New York, N. Y. Appliance containing radioactive material for the production of radioactive medicinal water. No. 101,682; Jan. 5; Gaz. vol. 210; p. 395.
- Schieffelin, William J., New York, N. Y. Radio-active medicinal water for a beverage, table-water, or tonic. No. 105,491; July 27; Gaz. vol. 216; p. 1315.
- Schimmel, Gustav R., Detroit, Mich. Hypodermic appliances. No. 105,758; Aug. 17; Gaz. vol. 217; p. 1050.
- Schnasi Bros., New York, N. Y. Cigarettes. No. 105,873; Aug. 24; Gaz. vol. 217; p. 1336.
- Schleicher, Frank D., Mifflintown, Pa. Brooms, whisks, brooms, and brushes. No. 106,804; Oct. 26; Gaz. vol. 219; p. 1235.
- Schleizer, William H., Chicago, Ill. Laxative tablets. No. 104,844; June 22; Gaz. vol. 215; p. 1257.
- Schliemann's Oil & Ceresine Company, Inc., New York, N. Y. Lubricating-oils. Nos. 103,765-6; Apr. 13; Gaz. vol. 213; p. 743.
- Schlusser Brothers, Plymouth, Ind., and Chicago, Ill. Butter and eggs. No. 102,544; Feb. 9; Gaz. vol. 211; p. 639.
- Schlyen, Joseph, New York, N. Y. Laxative candy. No. 103,447; Apr. 6; Gaz. vol. 213; p. 352.
- Schmidt, Peter L., Elberfeld, Germany. Razors, scissors, pocket scissors and knives. No. 102,454; Feb. 9; Gaz. vol. 211; p. 637.
- Schmincke & Co., H., Dusseldorf-Grafenberg, Germany. Artists' colors. No. 103,249; Mar. 23; Gaz. vol. 212; p. 1354.
- Schmincke & Co., H., Dusseldorf-Grafenberg, Germany. Oil and water colors, painters' oils, and varnishes. No. 103,250; Mar. 23; Gaz. vol. 212; p. 1354.
- Schneider, George C., Brooklyn, N. Y. Candles. No. 104,398; May 25; Gaz. vol. 214; p. 1316.
- Schneider, Hugo, New York, N. Y. Nursing-nipples. No. 102,455; Feb. 9; Gaz. vol. 211; p. 637.
- Schoen, Charles T., Media, Pa. Music-rolls for player-pianos, &c. No. 103,828; Apr. 13; Gaz. vol. 213; p. 745.
- Schoenfeld, Henry, New York, N. Y. Paprika in cans and boxes. No. 101,719; Jan. 5; Gaz. vol. 210; p. 396.
- Schoenherr, Frederick, Baltimore, Md. Window-shades. No. 106,513; Oct. 19; Gaz. vol. 219; p. 927.
- Schoening-Koenigsmark Milling Company, Prairie Du Rocher, Ill. Wheat-flour and self-rising wheat-flour. No. 105,675; Aug. 10; Gaz. vol. 217; p. 696.
- Schofield, Everett A., Philadelphia, Pa. Weed-killer preparation. No. 106,686; Oct. 26; Gaz. vol. 219; p. 1231.
- Scholl Manufacturing Co., The, Chicago, Ill. Instep-arch supports. No. 102,764; Feb. 23; Gaz. vol. 211; p. 1258.
- Schoonmaker, Frederick W., New York, N. Y., assignor to Schoonmaker Laboratories, Inc. Ointment for irritation or inflammation of the mucous membrane. No. 104,888; June 22; Gaz. vol. 215; p. 1259.
- Schorsch & Co., New York, N. Y. Paper bags. No. 106,909; Nov. 2; Gaz. vol. 220; p. 345.
- Schott & Gen., Jena, Germany. Raw glass for making certain named articles. No. 103,970; Apr. 20; Gaz. vol. 213; p. 1114.
- Schroeder, Gustavus A., Columbus, Nebr. Wheat-flour. No. 102,187; Jan. 26; Gaz. vol. 210; p. 1392.
- Schroeder Lamp Works, Edward, Jersey City, N. J. Gas lamps, illuminating-fixtures, and valves, and buoy-lanterns. No. 103,270; Mar. 23; Gaz. vol. 212; p. 1355.
- Schroeter Bros. Hardware Company, St. Louis, Mo. Nut-crackers. No. 107,101; Nov. 9; Gaz. vol. 220; p. 674.
- Schubert Piano Co., The, New York, N. Y. Pianos, piano-players, and piano-player actions. No. 103,717; Apr. 13; Gaz. vol. 213; p. 741.
- Schubert Piano Co., The, New York, N. Y. Pianos, piano-players, and piano-player actions. No. 104,031; Apr. 27; Gaz. vol. 213; p. 1442.
- Schuenemann, Emil J., Philadelphia, Pa. Candy and confections of certain named ingredients. No. 105,278; July 13; Gaz. vol. 216; p. 660.
- Schulten & Co., Jno. J., Louisville, Ky. Misses' and children's leather shoes. No. 105,399; July 20; Gaz. vol. 216; p. 1009.
- Schultheis, Valentine J., New York, N. Y. Cigars, cigarettes, cheroots, and cut tobacco. No. 107,863; Dec. 28; Gaz. vol. 221; p. 1449.
- Schultz & Hirsch Co., Chicago, Ill. Mattresses, box-springs, feather pillows and cushions. No. 102,906; Mar. 2; Gaz. vol. 212; p. 323.
- Schultz, William L., Brooklyn, N. Y., and Paris, France. Face-powder. No. 104,752; June 15; Gaz. vol. 215; p. 972.
- Schulze Baking Company, Chicago, Ill. Bread. No. 102,545; Feb. 9; Gaz. vol. 211; p. 639.
- Schulze Baking Company, Chicago, Ill. Bread. No. 104,032; Apr. 27; Gaz. vol. 213; p. 1442.
- Schulze Baking Company, Chicago, Ill. Cake. No. 107,638; Dec. 14; Gaz. vol. 221; p. 733.
- Schulze, Frederick, Richmond Hill, N. Y. Wash-blue. No. 103,181; Mar. 16; Gaz. vol. 212; p. 1054.
- Schuster Company, The, Cleveland, Ohio. Plain and carbonated non-alcoholic beverages. No. 101,755; Jan. 12; Gaz. vol. 210; p. 710.
- Schuster Company, The, Cleveland, Ohio. Certain named wines. Nos. 104,993-4; June 29; Gaz. vol. 215; p. 1495.
- Schwabach & Raphael, New York, N. Y. Cotton piece goods. No. 102,883; Feb. 23; Gaz. vol. 211; p. 1261.
- Schwalm, Ernest, Jersey City, N. J., and New York, N. Y. Bats. No. 105,277; July 13; Gaz. vol. 216; p. 660.
- Schwartz & Co., Sidney M., New York, N. Y. Women's collars. No. 103,037; Mar. 16; Gaz. vol. 212; p. 1050.
- Schwartz, Leopold, Yonkers, N. Y. Chemical preparation for rheumatical pains or aches. No. 105,874; Aug. 24; Gaz. vol. 217; p. 1336.
- Schwartzman, Samuel, assignor to H. A. Cochrane, New York, N. Y. Monthly magazine, newspaper, and periodical. No. 107,451; Nov. 30; Gaz. vol. 220; p. 1715.
- Schwarz, Harry E., New York, N. Y. Certain named knitted underwear. No. 107,017; Nov. 9; Gaz. vol. 220; p. 672.
- Schwarz, Samuel, Newark, N. J. Preparation for the treatment of corns, bunions, and warts. No. 106,056; Sept. 21; Gaz. vol. 218; p. 873.
- Schwenk-Barth Brewing Co., Yankton, S. D. Bottled beer. No. 107,864; Dec. 28; Gaz. vol. 221; p. 1449.
- Schwind Brothers Coal Company, Louisville, Ky. Coal. No. 102,948; Mar. 2; Gaz. vol. 212; p. 324.
- Schwob, Adolphe, New York, N. Y. Watches and watch-movements. No. 102,188; Jan. 26; Gaz. vol. 210; p. 1392.
- Slavo, Achille, Siena, Italy. Blood-depurating tonic. No. 101,798; Jan. 12; Gaz. vol. 210; p. 711.
- Scott County Milling Company, The, Sikeston, Mo. Wheat-flour. No. 107,204; Nov. 16; Gaz. vol. 220; p. 1037.
- Scott Paper Company, Philadelphia, Pa. Paper towels, table-covers, diapers, and toilet-paper. No. 106,690; Oct. 26; Gaz. vol. 219; p. 1231.
- Scovill Manufacturing Company, Waterbury, Conn. Buttons for trousers and other garments. No. 107,561; Dec. 7; Gaz. vol. 221; p. 348.
- Scranton Lace Company, The, Scranton, Pa. Curtains and draperies. No. 104,485; June 1; Gaz. vol. 215; p. 318.
- Scribblers Ink & Paste Manufacturing Company, Seattle, Wash. Fluid inks. No. 106,687; Oct. 26; Gaz. vol. 219; p. 1231.
- Sears & Nichols Co., The, Chillicothe, Ohio. Canned corn. No. 102,588; Feb. 16; Gaz. vol. 211; p. 952.
- Sears, Roebuck and Co., Chicago, Ill. Bed-blankets. Nos. 101,878-9; Jan. 12; Gaz. vol. 210; p. 713.
- Sears, Roebuck and Co., Chicago, Ill. Women's dresses, wrappers, and aprons. No. 102,312; Feb. 2; Gaz. vol. 211; p. 281.
- Sears, Roebuck and Co., Chicago, Ill. Certain named knitted, netted, and textile fabrics. No. 102,846; Feb. 23; Gaz. vol. 211; p. 1260.
- Sears, Roebuck and Co., Chicago, Ill. Automobile-oil. No. 104,846; June 22; Gaz. vol. 215; p. 1257.
- Sears, Roebuck and Co., Chicago, Ill. Rubber garden-hose. Nos. 105,233-5; July 13; Gaz. vol. 216; p. 658.
- Sears, Roebuck and Co., Chicago, Ill. Rubber garden-hose. No. 105,238; July 13; Gaz. vol. 216; p. 659.
- Sears, Roebuck and Co., Chicago, Ill. Bicycles. No. 105,560; Aug. 3; Gaz. vol. 217; p. 336.
- Sears, Roebuck and Co., Chicago, Ill. Cameras. No. 105,875; Aug. 24; Gaz. vol. 217; p. 1336.
- Sears, Roebuck and Co., Chicago, Ill. Certain named foods. No. 106,805; Oct. 26; Gaz. vol. 219; p. 1235.
- Sears, Roebuck and Co., Chicago, Ill. Rubber garden-hose. No. 107,387; Nov. 23; Gaz. vol. 220; p. 1369.
- Sears, Roebuck and Company, Chicago, Ill. Bicycles. No. 107,388; Nov. 23; Gaz. vol. 220; p. 1369.
- Seattle Brewing and Maltng Co., Seattle, Wash. Beer. No. 101,651; Jan. 5; Gaz. vol. 210; p. 394.
- Seattle Brewing and Maltng Co., Seattle, Wash. Beer. No. 106,124; Oct. 12; Gaz. vol. 219; p. 582.
- Sechler & Company, The, Cincinnati, Ohio. Wagons and carts. No. 106,371; Oct. 19; Gaz. vol. 219; p. 922.
- Security Envelope Co., Minneapolis, Minn. Envelopes. No. 102,189; Jan. 26; Gaz. vol. 210; p. 1392.
- Seidel & Sons, Adolph, Chicago, Ill. Soda-water and soda-fountain beverage. No. 103,917; Apr. 20; Gaz. vol. 213; p. 1113.
- Seifter & Son, Brooklyn, N. Y. Furs and skins. No. 105,239; July 13; Gaz. vol. 216; p. 659.
- Seigel, Herman. (See Seigel, William M. and H.)
- Seigel, William M. and H., Denver, Colo. Cleaning and bleaching compound for Panama hats. No. 107,205; Nov. 16; Gaz. vol. 220; p. 1037.

- Sekine, Ioji, New York, N. Y. Tooth-brushes. No. 104,427; May 25; Gaz. vol. 214; p. 1317.
- Selby, Grant, St. Louis, Mo. Mechanical railroad-signals. No. 103,298; Mar. 30; Gaz. vol. 212; p. 1683.
- Seldomite Laboratories Limited, London, England. Chemical preparation for intensifying the heat of fires. No. 105,305; July 13; Gaz. vol. 216; p. 661.
- Self, Christopher C., Barham, La. Preparation for venereal diseases. No. 103,863; Apr. 20; Gaz. vol. 213; p. 1111.
- Self, William H., Barham, La. Preventive for venereal diseases. No. 107,562; Dec. 7; Gaz. vol. 221; p. 348.
- Sellers, Bert E., St. Louis, Mo. Flavoring extract for food. No. 107,640; Dec. 14; Gaz. vol. 221; p. 733.
- Sellos Dress Fabric Co., Inc., New York, N. Y. Silk, cotton, and wool and combinations thereof piece goods. No. 106,806; Oct. 26; Gaz. vol. 219; p. 1235.
- Semel & Co., J. H., New York, N. Y. Hosiery. No. 104,399; May 25; Gaz. vol. 214; p. 1316.
- Semons Fur Co., New York, N. Y. Muffs and scarfs. No. 105,759; Aug. 17; Gaz. vol. 217; p. 1050.
- Sentanel Remedies Company, The, Wilmington, Del., and Covington, Ky. Laxative tablets. No. 101,721; Jan. 5; Gaz. vol. 210; p. 396.
- Sentinel Automatic Gas Appliance Co., The, New Haven, Conn. Gas laundry-iron heaters and soldering-furnaces. No. 103,400; Mar. 30; Gaz. vol. 212; p. 1686.
- Sentinel Clock Co., Chicago, Ill. Horological indicators. No. 104,995; June 29; Gaz. vol. 215; p. 1495.
- Sentinel Clock Co., Chicago, Ill. Horological indicators. No. 106,372; Oct. 19; Gaz. vol. 219; p. 922.
- Sergent & Compagnie, Paris, France. Hygienic products of perfumery, &c., face-powders, and pastes. No. 107,389; Nov. 23; Gaz. vol. 220; p. 1369.
- Service Motor Supply Company, Chicago, Ill. Tire fillers and patches for cementing. No. 106,125; Oct. 12; Gaz. vol. 219; p. 582.
- Sewell & Co., Bert, Kansas City, Mo. Catarrhal jelly. No. 107,206; Nov. 16; Gaz. vol. 220; p. 1037.
- Seykota, Rudolf, New York, N. Y. Depilatory. No. 107,584; Dec. 14; Gaz. vol. 221; p. 731.
- Seymour Metal Goods Company, The, Seymour, Conn. Safety-pins. No. 102,456; Feb. 9; Gaz. vol. 211; p. 637.
- Shado-Life Manufacturing Company, Beaver Falls, Pa. Electrical lighting means for motion-picture and other auditoriums. No. 104,516; June 1; Gaz. vol. 215; p. 319.
- Shaffer Roofing Co., Columbus, Ohio. Prepared roofing in sheet and liquid form. No. 101,800; Jan. 12; Gaz. vol. 210; p. 711.
- Shaffer, Wallace F., Kendallville, Ind. Display-cases. No. 107,207; Nov. 16; Gaz. vol. 220; p. 1037.
- Shaft-Pierce Shoe Co., Faribault, Minn. Canvas and leather shoes. No. 107,793; Dec. 28; Gaz. vol. 221; p. 1447.
- Shannon & Mott Company, Des Moines, Iowa. Wheat-flour. No. 105,025; June 29; Gaz. vol. 215; p. 1496.
- Shapiro, Leo, Minneapolis, Minn. Bedbug, roach, and ant killer. No. 106,373; Oct. 19; Gaz. vol. 219; p. 922.
- Shapiro, Samuel, Philadelphia, Pa. Pasteurizers. No. 103,734; Apr. 13; Gaz. vol. 213; p. 742.
- Shapleigh Hardware Company, St. Louis, Mo. Wood, coal, gas, and vapor stoves. No. 101,683; Jan. 5; Gaz. vol. 210; p. 395.
- Shapleigh Hardware Company, St. Louis, Mo. Enameled metal ware. No. 105,326; July 20; Gaz. vol. 216; p. 1007.
- Sharp & Dohme, Baltimore, Md. Certain named chemicals, medicines, and pharmaceutical preparations. Nos. 101,982-3; Jan. 19; Gaz. vol. 210; p. 1061.
- Sharp & Dohme, Baltimore, Md. Sterilized solution of iodine. No. 106,185; Oct. 12; Gaz. vol. 219; p. 584.
- Sharp & Dohme, Baltimore, Md. White mineral oil for intestinal torpidity and constipation. No. 106,375; Oct. 19; Gaz. vol. 219; p. 922.
- Sharp & Dohme, Baltimore, Md. Effervescent medicinal tablet for nervous disorders. No. 107,290; Nov. 16; Gaz. vol. 220; p. 1039.
- Sharples Separator Co., The, West Chester, Pa. Cream-separators, clarifiers, and milking-machines. No. 104,955; June 29; Gaz. vol. 215; p. 1494.
- Shattuck, Jane M., New York, N. Y. Cakes, pies, bread, &c. No. 103,123; Mar. 16; Gaz. vol. 212; p. 1053.
- Shaw & Co., Alex. D., New York, N. Y. Jamaica rum. No. 103,971; Apr. 20; Gaz. vol. 213; p. 1114.
- Shearer, William S., near Lewiston, Idaho. Fresh fruits and vegetables. No. 103,681; Apr. 13; Gaz. vol. 213; p. 740.
- Sheboygan Evaporated Milk Co., The, Sheboygan and Jefferson, Wis. Milk product, evaporated. No. 105,904; Aug. 24; Gaz. vol. 217; p. 1337.
- Sheets & Co., William H., Jr., Baltimore, Md. Wall, scrubbing, clothes, &c., brushes. No. 103,918; Apr. 20; Gaz. vol. 213; p. 1113.
- Sheets & Co., William H., Jr., Baltimore, Md. Brushes. No. 104,109; Apr. 27; Gaz. vol. 213; p. 1444.
- Sheetz, Elie, Washington, D. C. Candy. No. 103,972; Apr. 20; Gaz. vol. 213; p. 1114.
- Sheffield Farms-Slawson-Decker Company, New York, N. Y. Milk and cream. No. 103,208; Mar. 23; Gaz. vol. 212; p. 1353.
- Sheffield-King Milling Co., Minneapolis, Minn. Wheat-flour. No. 103,767; Apr. 13; Gaz. vol. 213; p. 743.
- Sheffield Silver Co., The, New York, N. Y. Hollow, &c., silverware. No. 107,747; Dec. 28; Gaz. vol. 221; p. 1445.
- Sheldon Axle and Spring Company, Wilkes-Barre, Pa. Vehicle axles and springs. No. 105,676; Aug. 10; Gaz. vol. 217; p. 696.
- Shelton Mills, Chattanooga, Tenn. Flour. No. 102,806; Feb. 23; Gaz. vol. 211; p. 1259.
- Shelton Mills, Chattanooga, Tenn. Wheat-flour. No. 105,240; July 13; Gaz. vol. 216; p. 659.
- Shelton Mills, Chattanooga, Tenn. Wheat-flour. No. 105,905; Aug. 24; Gaz. vol. 217; p. 1337.
- Sherman, Jacob S., Staunton, Ill. Miners' lamps. No. 102,191; Jan. 26; Gaz. vol. 210; p. 1392.
- Sherman & Sons Company, New York, N. Y. Long and cotton cloth. No. 102,457; Feb. 9; Gaz. vol. 211; p. 637.
- Sherwin-Williams Co., Cleveland, Ohio. Insulating-varnish. No. 104,808; June 15; Gaz. vol. 215; p. 974.
- Sherwin-Williams Co., The, Cleveland, Ohio. Fungicide for spraying fruits and vegetables. No. 105,561; Aug. 3; Gaz. vol. 217; p. 336.
- Sherwin-Williams Co., The, Cleveland, Ohio. White paint. No. 107,452; Nov. 30; Gaz. vol. 220; p. 1715.
- Sherwood, Henry G., Richmond, W. Va. Magnetic foot-pads. No. 107,532; Dec. 7; Gaz. vol. 221; p. 347.
- Shickluna, Kitt S., Buffalo, N. Y. Tire-repairing fluid, rim-cement, and rubber cements. No. 101,934; Jan. 19; Gaz. vol. 210; p. 1061.
- Shields, Ferdinand W., Vicksburg, Miss. Grease-guns. No. 107,482; Dec. 7; Gaz. vol. 221; p. 345.
- Shigemura, Gensuke, Nagasaki-Ken, Japan. Remedy for seasickness and headaches. No. 105,373; July 20; Gaz. vol. 216; p. 1009.
- Shively, Emily J., San Francisco, Cal. Toy banks. No. 103,011; Mar. 16; Gaz. vol. 212; p. 1049.
- Shoemaker & Busch, Philadelphia, Pa. Insect-exterminator and porous holders therefor. No. 102,868; Feb. 23; Gaz. vol. 211; p. 1261.
- Showley Bros., San Diego, Cal. Candy. No. 103,448; Apr. 6; Gaz. vol. 213; p. 352.
- Shreve, Howard B., Nogales, Ariz. Medicinal hair-restorer. No. 103,182; Mar. 16; Gaz. vol. 212; p. 1054.
- Shrimplin, Marion, Tonganoxie, Kans. Anchor-castings for cultivator-shovels. No. 102,725; Feb. 23; Gaz. vol. 211; p. 1257.
- Shultz, Arthur E., Olney, Ill. Certain named foods for domesticated animals. No. 107,390; Nov. 23; Gaz. vol. 220; p. 1369.
- Shuman & Co., A., Boston, Mass. Certain named clothing for men, boys, and women. No. 102,618; Feb. 16; Gaz. vol. 211; p. 953.
- Shuman, Harry B., Boston, Mass. Mouth-wash and tooth-powder. No. 103,795; Apr. 13; Gaz. vol. 213; p. 744.
- Shupe, Joseph J., Detroit, Mich. Bread. No. 104,889; June 22; Gaz. vol. 215; p. 1259.
- Sibley, Nettie E., Springfield, Mass. Corn-files. No. 105,701; Aug. 10; Gaz. vol. 217; p. 697.
- Sicher & Co., D. E., New York, N. Y. Combination-garment. No. 104,295; May 18; Gaz. vol. 214; p. 1021.
- Sickels, Harry P., Rochester, N. Y. Mail-boxes. No. 106,374; Oct. 19; Gaz. vol. 219; p. 922.
- Sidney Blumenthal & Company, New York, N. Y. Plushes and velvets in the piece. No. 105,248; July 13; Gaz. vol. 216; p. 659.
- Sidney Blumenthal & Company, New York, N. Y. Plushes and velvets in the piece. No. 105,430; July 27; Gaz. vol. 216; p. 1313.
- Sidney Tool Company, Sidney, Ohio. Certain named wood-working tools and machinery. No. 101,753; Jan. 12; Gaz. vol. 210; p. 709.
- Siebe, Gorman & Co., Ltd., London, England. Apparatus for reviving or resuscitating persons asphyxiated or apparently drowned. No. 104,890; June 22; Gaz. vol. 215; p. 1259.
- Sieben, Henry, Kansas City, Mo. Games. No. 103,735; Apr. 13; Gaz. vol. 213; p. 742.
- Siegel & Co., Cologne-Braunsfeld, Germany. Metal, glass, porcelain, stove, and stone polishes. No. 104,130; May 4; Gaz. vol. 214; p. 339.
- Siemens & Company, Gebrüder, Berlin-Lichtenberg, Germany. Alcohol-measuring apparatus and condenser water-meters. No. 104,674; June 8; Gaz. vol. 215; p. 663.
- Siemens & Company Gebrüder, Berlin-Lichtenberg, Germany. Electric lanterns, arc-lamps, and appliances. Nos. 105,198-9; July 13; Gaz. vol. 216; p. 657.
- Sierra Chemical Company, Los Angeles, Cal. Washing-powder. No. 103,768; Apr. 13; Gaz. vol. 213; p. 743.
- Sig Silberberg Company, Inc., New York, N. Y. Guimpes, vestes, chemisettes, &c. No. 104,362; May 25; Gaz. vol. 214; p. 1315.
- Silberman & Bro., J., New York, N. Y. Ladies' suits made from knitted fabrics. No. 105,327; July 20; Gaz. vol. 216; p. 1007.
- Silver & Co., S. L., New York, N. Y. Ladies' coats and outer suits. No. 104,847; June 22; Gaz. vol. 215; p. 1257.
- Silver & Co., S. L., New York, N. Y. Ladies' coats and outer suits. No. 104,956; June 29; Gaz. vol. 215; p. 1494.

Alphabetical list of registrants of trade-marks—Continued.

- Silverberg Import Co., New York, N. Y. Hair-nets. No. 102,619; Feb. 16; Gaz. vol. 211; p. 953.
- Silverberg and Lince, Des Moines, Iowa. Certain named textile and knitted clothing for men. No. 106,020; Sept. 14; Gaz. vol. 218; p. 600.
- Silvercose Co., The, Hartford, Conn. Metal-cleansers. No. 105,677; Aug. 10; Gaz. vol. 217; p. 696.
- Silverman, Katherine, Chicago, Ill. Dolls. No. 107,533; Dec. 7; Gaz. vol. 221; p. 347.
- Simen and Louis Eckert, Edward C., Pittsburgh, Pa. Boots, shoes, slippers, and footwear. No. 104,235; May 11; Gaz. vol. 214; p. 678.
- Simmons & Hammond Manufacturing Co., Portland, Me. Candy. No. 107,391; Nov. 23; Gaz. vol. 220; p. 1369.
- Simon, Bühler & Baumann, Frankfort-on-the-Main, Germany. Malt-grinding mills. No. 101,652; Jan. 5; Gaz. vol. 210; p. 394.
- Simon, Franklin, New York, N. Y. Certain style of soft negligée shirt with collar attached. No. 103,449; Apr. 6; Gaz. vol. 213; p. 352.
- Simon, Franklin, New York, N. Y. Certain named wearing-apparel for men, women, and children. No. 106,807; Oct. 26; Gaz. vol. 219; p. 1235.
- Simon, Richard, Newton, N. J. Stomach-drops. No. 104,486; June 1; Gaz. vol. 215; p. 318.
- Simon & Salzenstein, Dallas, Tex. Cigars. No. 104,181; May 4; Gaz. vol. 214; p. 339.
- Simonds File Co., Fitchburg, Mass. Saws. No. 104,007; Apr. 27; Gaz. vol. 213; p. 1441.
- Simonds, Joseph S., Detroit, Mich. Razor-stop dressing. No. 101,801; Jan. 12; Gaz. vol. 210; p. 711.
- Simons, Eva I., San Francisco, Cal. Certain named pharmaceutical preparations for toilet use. No. 104,076; Apr. 27; Gaz. vol. 213; p. 1443.
- Simons, George E., Seattle, Wash. Compound for cleaning and polishing metal surfaces. No. 104,517; June 1; Gaz. vol. 215; p. 319.
- Simons & McGill, New York, N. Y. Umbrellas and parasols. No. 103,919; Apr. 20; Gaz. vol. 213; p. 1113.
- Simplex Manufacturing Co., New York, N. Y. Paint and varnish removers. No. 104,183; May 4; Gaz. vol. 214; p. 341.
- Simpson & Company, James, Paterson, N. J. Wash-silk. No. 107,208; Nov. 16; Gaz. vol. 220; p. 1037.
- Simpson, Harry P., Cleveland, Ohio. Cathartic pastils. No. 104,996; June 29; Gaz. vol. 215; p. 1495.
- Sims Cereal Company, Inc., Minneapolis, Minn. Malt and wheat breakfast food. No. 104,339; May 18; Gaz. vol. 214; p. 1022.
- Sims, Jas. I., Orangeburg, S. C. Compound for treating eczema. No. 106,263; Oct. 19; Gaz. vol. 219; p. 919.
- Singer Bros., New York, N. Y. Cocktails and brandy. No. 103,682; Apr. 13; Gaz. vol. 213; p. 740.
- Singer Manufacturing Company, The, Elizabeth, N. J. Sewing-threads. No. 106,688; Oct. 26; Gaz. vol. 219; p. 1231.
- Sioux City Brick and Tile Company, Sioux City, Iowa. Brick. No. 104,340; May 18; Gaz. vol. 214; p. 1022.
- Sisco Brothers, Chicago, Ill. Candies. No. 105,877; Aug. 24; Gaz. vol. 217; p. 1336.
- Sisson Company, Guy D., Los Angeles, Cal. Certain named clothing for women. No. 105,562; Aug. 3; Gaz. vol. 217; p. 336.
- Sister Lauras Infant Food Co. Limited, Glasgow, Scotland. Infant food. No. 102,765; Feb. 23; Gaz. vol. 211; p. 1258.
- Sitterton, S. C., Kinston, N. C. Non-intoxicating carbonated beverage. No. 105,678; Aug. 10; Gaz. vol. 217; p. 696.
- Skat Company, Hartford, Conn. Pastelike soap. No. 107,291; Nov. 16; Gaz. vol. 220; p. 1039.
- Skinner Manufacturing Company, Omaha, Nebr. Macaroni, spaghetti, and vermicelli. No. 106,689; Oct. 26; Gaz. vol. 219; p. 1231.
- Skinner Mfg. Co., Omaha, Nebr. Alimentary paste products and cereal breakfast food. No. 104,652; June 8; Gaz. vol. 215; p. 663.
- Slade, Arthur J., New York, N. Y. Removable tire-cleats. No. 102,546; Feb. 9; Gaz. vol. 211; p. 639.
- Slade, John, New York, N. Y. Boats. No. 106,038; Sept. 14; Gaz. vol. 218; p. 600.
- Slatter, Thomas, San Francisco, Cal. Umbrellas and parasols. No. 106,910; Nov. 2; Gaz. vol. 220; p. 345.
- Smadbeck, Warren J., New York, N. Y. Candy in pastil form. No. 106,911; Nov. 2; Gaz. vol. 220; p. 345.
- Small & Parkes, Limited, Manchester, England. Packing, hose, belting, and washers. No. 103,683; Apr. 13; Gaz. vol. 213; p. 740.
- Smalley, Kivlan & Onthank, Boston, Mass. Glass bottles and jars. No. 105,423; July 20; Gaz. vol. 216; p. 1010.
- Smiley & Company, J. L., Blaine, Wash. Canned salmon. No. 102,659; Feb. 16; Gaz. vol. 211; p. 954.
- Smith, Belle D., Newark Valley, N. Y. Preparation to assist in the whipping of thin cream. No. 107,641; Dec. 14; Gaz. vol. 221; p. 733.
- Smith, C. Frank, Detroit, Mich. Coffee, tea, and cocoa. No. 106,808; Oct. 26; Gaz. vol. 219; p. 1235.
- Smith & Co., F. W., Kansas City, Kans. Preparation for treatment of hog cholera. No. 103,401; Mar. 30; Gaz. vol. 212; p. 1687.
- Smith & Company, S. W., Jacksonville, Fla. Medicine for venereal diseases. No. 107,292; Nov. 16; Gaz. vol. 220; p. 1039.
- Smith, Coral L., Detroit, Mich. Popcorn confection. No. 104,269; May 11; Gaz. vol. 214; p. 679.
- Smith, Estella D., Broussard, La. Pickles. No. 107,585; Dec. 14; Gaz. vol. 221; p. 731.
- Smith, Fannie H., Dayton, Ohio. Fruit preserves and jams. No. 103,973; Apr. 20; Gaz. vol. 213; p. 1115.
- Smith, Galus H., Providence, R. I. Liniment. No. 105,083; July 6; Gaz. vol. 216; p. 322.
- Smith, George F., Washington, Pa. Remedy for certain named ailments and diseases. No. 104,753; June 15; Gaz. vol. 215; p. 972.
- Smith, Hannah A., Philadelphia, Pa. Lime. No. 104,891; June 22; Gaz. vol. 215; p. 1259.
- Smith & Hemenway Company, Inc., New York, N. Y. Glass-cutters. Nos. 107,865-7; Dec. 28; Gaz. vol. 221; p. 1449.
- Smith, Henry C., Detroit, Mich. Certain named tools and machines. No. 102,313; Feb. 2; Gaz. vol. 211; p. 281.
- Smith, Jay L., Warren, Pa. Certain named oils and greases. No. 102,620; Feb. 16; Gaz. vol. 211; p. 953.
- Smith, Kline & French Co., Philadelphia, Pa. Liniment. No. 103,797; Apr. 13; Gaz. vol. 213; p. 744.
- Smith, Kline & French Co., Philadelphia, Pa. Vermifuge. Nos. 103,798-9; Apr. 13; Gaz. vol. 213; p. 744.
- Smith, Kline & French Co., Philadelphia, Pa. Liniment. No. 103,800; Apr. 13; Gaz. vol. 213; p. 744.
- Smith, Kline & French Co., Philadelphia, Pa. Insecticide. No. 103,801; Apr. 13; Gaz. vol. 213; p. 744.
- Smith, Louis J., South Bend, Ind. Local anesthetics. No. 101,881; Jan. 12; Gaz. vol. 210; p. 713.
- Smith, Marian C., Jacksonville, Fla. Medicinal preparation for malaria, fever, and biliousness. No. 106,912; Nov. 2; Gaz. vol. 220; p. 345.
- Smith and Nessel Company, New York, N. Y. Wheat-flour. No. 102,194; Jan. 26; Gaz. vol. 210; p. 1392.
- Smith, Oliver W., Los Angeles, Cal. Preparation for treating ailing feet. No. 101,722; Jan. 5; Gaz. vol. 210; p. 396.
- Smith, Ona E., San Jose, Cal. Paper fruit-container. No. 107,453; Nov. 30; Gaz. vol. 220; p. 1715.
- Smith, Robert M., Hattiesburg, Miss. Remedy for catarrh. No. 103,842; Apr. 13; Gaz. vol. 213; p. 745.
- Smith's Island Oyster Company, New York, N. Y. Oysters, clams, &c. No. 103,572; Apr. 6; Gaz. vol. 213; p. 356.
- Smolin, Julius, New York, N. Y. Hats. No. 106,809; Oct. 26; Gaz. vol. 219; p. 1235.
- Smyrna & Hawk Park Citrus Growers Association, New Smyrna, Fla. Oranges and grape-fruit. No. 104,578; June 1; Gaz. vol. 215; p. 321.
- Snow, George L., Boston, Mass. Rubber boots and shoes. No. 105,374; July 20; Gaz. vol. 216; p. 1009.
- Snow's Fountains, Inc., New York, N. Y. Confectionery and bakery goods. No. 105,375; July 20; Gaz. vol. 216; p. 1009.
- Snyder, Harry E., Akron, Ohio. Washing compounds for walls, ceilings, floors, &c. No. 104,487; June 1; Gaz. vol. 215; p. 318.
- Snyder, J. E., Portsmouth, Ohio. Hair-curling fluid. No. 102,195; Jan. 26; Gaz. vol. 210; p. 1392.
- Snyder, Thomas H., Cincinnati, Ohio. Shampooing preparation. No. 101,756; Jan. 12; Gaz. vol. 210; p. 710.
- So-Jer Manufacturing Company, Baldwinsville, N. Y. Ammonia and bluing. No. 105,990; Sept. 7; Gaz. vol. 218; p. 317.
- So-Luminum Manufacturing & Engineering Company. (See Peters, Karl R., assignor.)
- Sociedad Anonima Manufactura de Tabacos Piccardo y Compania Limitada, Buenos Aires, Argentina. Cigars and cigarettes. No. 107,020; Nov. 9; Gaz. vol. 220; p. 672.
- Società Anonima Leonardo Film, Turin, Italy. Cinematograph-films. No. 103,664; Apr. 13; Gaz. vol. 213; p. 740.
- Società Generale delle Conserve Alimentari Ciro, San Giovanni a Teduccio, near Naples, Italy. Peeled tomatoes and tomato conserve. No. 102,196; Jan. 26; Gaz. vol. 210; p. 1392.
- Società Torrese per Conserve Alimentari Liguori, Mazza & Ci., Torre del Greco, Italy. Tomato paste and peeled tomatoes. No. 104,008; Apr. 27; Gaz. vol. 213; p. 1441.
- Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils, Angoulême, France. Cigarette-paper. No. 107,766; Dec. 28; Gaz. vol. 221; p. 1446.
- Société Anonyme de l'Emulsiol des Indes, Paris, France. Liquid preparation for use in shaving. No. 106,515; Oct. 19; Gaz. vol. 219; p. 927.
- Société Anonyme des Établissements Rouzaud "a la Marquise de Seigne" Chocolat de Royat, Royat-les-Bains, France. Certain named foods. No. 105,967; Aug. 31; Gaz. vol. 217; p. 1653.
- Société de Conserve Alimentaires de la Vallée du Rhône, Saxon, Switzerland. Certain named foods. No. 103,706; Apr. 13; Gaz. vol. 213; p. 741.
- Société du Café Soluble Belna, Paris, France. Coffee preparations. No. 102,548; Feb. 9; Gaz. vol. 211; p. 639.
- Société "Ing. P. Pestalozza & C." Turin, Italy. Automobiles. No. 101,653; Jan. 5; Gaz. vol. 210; p. 394.
- Society of Automobile Engineers, New York, N. Y. Data-sheets. No. 103,974; Apr. 20; Gaz. vol. 213; p. 1115.

- Society of Chemical Industry in Basle, Basel, Switzerland.** Pharmaceutical product. Nos. 107,642-4; Dec. 14; Gaz. vol. 221; p. 733.
- Society Specialty Co. Inc., New York, N. Y.** Toilet creams. No. 106,039; Sept. 14; Gaz. vol. 218; p. 600.
- Soennecken, Firm of F., Bonn, Germany.** Certain named paper and stationery supplies. No. 105,173; July 6; Gaz. vol. 216; p. 325.
- Solakol Company, The, Boston, Mass.** Solidified alcohol. No. 107,794; Dec. 28; Gaz. vol. 221; p. 1447.
- Solon Palmer, New York, N. Y.** Perfume, complexion and sachet powders. No. 103,116; Mar. 16; Gaz. vol. 212; p. 1052.
- Soltmann, Edward G., Jr., New York, N. Y.** Blank books. No. 107,534; Dec. 7; Gaz. vol. 221; p. 347.
- Somerset Stove Foundry Co., Somerset, Mass.** Coal and gas burning stoves and ranges. No. 107,392; Nov. 23; Gaz. vol. 220; p. 1369.
- Son, Charles A., San Francisco, Cal.** Toy figure. No. 107,454; Nov. 30; Gaz. vol. 220; p. 1715.
- Sonneborn & Co., Henry, Baltimore, Md.** Outer suits and overcoats. No. 102,766; Feb. 23; Gaz. vol. 211; p. 1258.
- Sormani, Egbert J., Brooklyn, N. Y.** Preparation for certain named ailments. No. 103,330; Mar. 30; Gaz. vol. 212; p. 1684.
- South Holland Milk Corporation, New York, N. Y.** Condensed milk. No. 105,924; Aug. 24; Gaz. vol. 217; p. 1337.
- South Texas Drug Co., San Antonio, Tex.** Hair-oil, arnica and carbolic salves, with-hazel, &c. No. 102,907; Mar. 2; Gaz. vol. 212; p. 323.
- South Texas Grain Company, Houston, Tex.** Mixed food for live stock. No. 107,816; Dec. 28; Gaz. vol. 221; p. 1447.
- Southard, Louis P., Roselle, N. J.** Rubber cement. No. 103,129; Mar. 16; Gaz. vol. 212; p. 1053.
- Southern Aseptic Laboratories, Columbia, S. C.** Absorbent cotton. No. 106,376; Oct. 19; Gaz. vol. 219; p. 922.
- Southern California Fish Company, Los Angeles, Cal.** Canned fish. No. 105,084; July 6; Gaz. vol. 216; p. 322.
- Southern Gypsum Company, Incorporated, North Holston, Va.** Wall-plaster made of gypsum. No. 103,299; Mar. 30; Gaz. vol. 212; p. 1683.
- Southern Lard and Provision Company, The, Norfolk, Va.** Lard substitute. No. 104,965; June 29; Gaz. vol. 215; p. 1494.
- Southern Macaroni Mfg. Co., New Orleans, La.** Alimentary paste products. No. 105,400; July 20; Gaz. vol. 216; p. 1009.
- Southern Mfg Co., The, Richmond, Va.** Baking-powder. No. 103,920; Apr. 20; Gaz. vol. 213; p. 1113.
- Spahr, Otto, Philadelphia, Pa.** Metal cap for bottles. No. 107,294; Nov. 16; Gaz. vol. 220; p. 1040.
- Spalding, Eudora H., Sespe, Cal.** Lemons, oranges, grapefruit, limes, and other citrus fruits. Nos. 102,847-50; Feb. 23; Gaz. vol. 211; p. 1260.
- Spar-Light Company, Boston, Mass.** Cleaning, scouring, and polishing powder. No. 107,455; Nov. 30; Gaz. vol. 220; p. 1715.
- Sparks Milling Company, Alton, Ill., and Terre Haute, Ind.** Wheat-flour. No. 104,848; June 22; Gaz. vol. 215; p. 1257.
- Sparks Milling Company, Alton, Ill., and Terre Haute, Ind.** Bran and mixed feed. No. 105,449; July 27; Gaz. vol. 216; p. 1313.
- Sparks Milling Company, Alton, Ill., and Terre Haute, Ind.** Wheat-flour. No. 106,691; Oct. 26; Gaz. vol. 219; p. 1231.
- Spd. Accessories Co., New York, N. Y.** Carbon-eradicator. No. 106,184; Oct. 12; Gaz. vol. 219; p. 584.
- Speagh, Charles D., Dayton, Ohio.** Rupture-trusses. No. 103,796; Apr. 13; Gaz. vol. 213; p. 744.
- Speakman Supply & Pipe Company, Wilmington, Del.** Metallic valves for general application. No. 103,124; Mar. 16; Gaz. vol. 212; p. 1053.
- Spear, Arthur G., Portland, Me.** Fruit-punch. No. 105,503; July 27; Gaz. vol. 216; p. 1315.
- Spearing, Chester C., Cincinnati, Ohio.** Antiseptic, compound for certain named ailments, &c. No. 105,925; Aug. 24; Gaz. vol. 217; p. 1337.
- Speedolene Lubricant Company, Malden, Mass.** Lubricants and lubricating oils and greases. Nos. 107,645-6; Dec. 14; Gaz. vol. 221; p. 733.
- Spelzel Company, F., Providence, R. I.** Jewelry. No. 102,314; Feb. 2; Gaz. vol. 211; p. 281.
- Spencer Lens Company, Buffalo, N. Y.** Projection apparatus. No. 107,795; Dec. 28; Gaz. vol. 221; p. 1447.
- Spengler, Adeline C., Lewiston, Idaho.** Bread. No. 103,684; Apr. 13; Gaz. vol. 213; p. 740.
- Sperry & Barnes Co., The, New Haven, Conn.** Certain named foods. No. 102,315; Feb. 2; Gaz. vol. 211; p. 281.
- Spies, Charles B., New York, N. Y.** Certain named pharmaceutical preparation. No. 104,488; June 1; Gaz. vol. 215; p. 318.
- Spiller, Harry A., Dorchester, Mass.** Lubricants. No. 107,808; Dec. 28; Gaz. vol. 221; p. 1447.
- Splitdorf Electrical Company, Newark, N. J.** Certain named electrical apparatus and supplies. No. 106,913; Nov. 2; Gaz. vol. 220; p. 345.
- Spohn Medical Company, Goshen, Ind.** Remedy for treatment of certain named animal diseases. No. 106,377; Oct. 19; Gaz. vol. 219; p. 922.
- Spokane Fruit Growers Co., Spokane, Wash.** Fresh apples and peaches. No. 104,132; May 4; Gaz. vol. 214; p. 339.
- Spokane Valley Orchard & Land Company, Spokane Bridge, Wash.** Certain named foods. No. 103,271; Mar. 23; Gaz. vol. 212; p. 1355.
- Spool Cotton Company, The, Newark, N. J., and New York, N. Y.** Thread. No. 102,589; Feb. 16; Gaz. vol. 211; p. 952.
- Spooner, Jacob, New York, N. Y.** Talcum powder. No. 103,450; Apr. 6; Gaz. vol. 213; p. 352.
- Spoor, William L., Redlands, Cal.** Laxative confection. No. 107,647; Dec. 14; Gaz. vol. 221; p. 733.
- Sprague Co., Frederick H., Orange, Mass.** Child's undergarment. No. 103,829; Apr. 13; Gaz. vol. 213; p. 745.
- Sprague-Hathaway Co., Somerville and Boston, Mass.** Photographic portraits. No. 106,378; Oct. 19; Gaz. vol. 219; p. 922.
- Spratts Patent (America) Limited, London, England, and Newark, N. J.** Incubators. No. 106,082; Oct. 5; Gaz. vol. 219; p. 267.
- Springfield Creamery Co., Springfield, Mo.** Butter. No. 106,063; Sept. 21; Gaz. vol. 218; p. 873.
- Squier, Victor C., Battle Creek, Mich.** Violin, viola, &c., strings. No. 106,692; Oct. 26; Gaz. vol. 219; p. 1231.
- St. Ivel, Limited, Yeovil, England.** Preparation for the brain and nerves. No. 104,809; June 15; Gaz. vol. 215; p. 974.
- St. Ivel, Limited, Yeovil, England.** Food of certain named ingredients. No. 107,014; Nov. 9; Gaz. vol. 220; p. 672.
- St. Jacob Enterprise Mill Co., St. Louis, Mo., and St. Jacob, Ill.** Wheat-flour. No. 104,341; May 18; Gaz. vol. 214; p. 1022.
- St. Joseph Paper Company, The, St. Joseph, Mo.** Envelopes, writing and blotting paper, and certain named other articles of stationery. No. 101,685; Jan. 5; Gaz. vol. 210; p. 395.
- St. Louis Agency of National Pure Water Company, St. Louis, Mo.** Table-waters. No. 106,693; Oct. 26; Gaz. vol. 219; p. 1231.
- St. Louis Brass Manufacturing Company, St. Louis, Mo.** Electric-light fixtures. No. 107,103; Nov. 9; Gaz. vol. 220; p. 674.
- Stag Co., The, Chicago, Ill.** Safety-razor-sharpening machines. No. 105,878; Aug. 24; Gaz. vol. 217; p. 1336.
- Staggs, Samuel E., Liberty, Mo.** Triangular aluminum shingle-nails. No. 105,450; July 27; Gaz. vol. 216; p. 1313.
- Staley, Chas. W., Olney, Tex.** Medicine for chills. No. 102,696; Feb. 23; Gaz. vol. 211; p. 1256.
- Stallknecht Ice Cream Corporation, Baltimore, Md.** Ice-cream. No. 106,516; Oct. 19; Gaz. vol. 219; p. 927.
- Stallsmith, Robert O. (See New-Iron Mfg. Co., assignor.)**
- Stamer, J., Savannah, Ga.** Remedy for the tobacco habit. No. 104,236; May 11; Gaz. vol. 214; p. 678.
- Stamford Foundry Company, The, Stamford, Conn.** Cooking ranges and stoves and heating-stoves. No. 106,186; Oct. 12; Gaz. vol. 219; p. 584.
- Stanard-Tilton Milling Co., St. Louis, Mo.** Wheat-flour. No. 103,331; Mar. 30; Gaz. vol. 212; p. 1684.
- Stanard-Tilton Milling Co., St. Louis, Mo.** Wheat-flour. No. 105,144; July 6; Gaz. vol. 216; p. 324.
- Standard Brass & Alloy Co., Quincy, Ill.** Flux for melting metals with a copper base. No. 103,332; Mar. 30; Gaz. vol. 212; p. 1684.
- Standard Brewing Co., New Orleans, La.** Beer. No. 107,295; Nov. 16; Gaz. vol. 220; p. 1040.
- Standard Corporation, Philadelphia, Pa.** Technical, engineering, and scientific periodical bulletins. No. 104,998; June 29; Gaz. vol. 215; p. 1495.
- Standard Felt Company, West Alhambra, Cal.** Felt shoes and slippers. No. 105,085; July 6; Gaz. vol. 216; p. 322.
- Standard Emulsion Co., New York, N. Y.** Preparation for service in the dietetic treatment of wasting diseases. No. 107,456; Nov. 30; Gaz. vol. 220; p. 1715.
- Standard Mail Order Company, New York, N. Y.** Sanitary napkins and shields therefor. No. 105,306; July 13; Gaz. vol. 216; p. 661.
- Standard Milling Co., Houston, Tex.** Rice. No. 106,694; Oct. 26; Gaz. vol. 219; p. 1231.
- Standard Oil Co., Richmond, Cal.** Refined oil for illuminating and heating and lubricating oils and greases. No. 103,012; Mar. 16; Gaz. vol. 212; p. 1049.
- Standard Oil Company, Richmond, Cal.** Asphaltum product of crude oil adapted for certain named purposes. No. 101,882; Jan. 12; Gaz. vol. 210; p. 713.
- Standard Oil Company, Richmond, Cal.** Refined petroleum illuminating-oil. No. 104,999; June 29; Gaz. vol. 215; p. 1495.
- Standard Oil Company, Richmond, Cal.** Lubricating-oil. No. 105,563; Aug. 3; Gaz. vol. 217; p. 336.
- Standard Oil Company, Richmond, Cal.** Gasolene, refined oil, lubricating oils and greases, and candles. No. 107,104; Nov. 9; Gaz. vol. 220; p. 674.
- Standard Oil Company, Richmond, Cal.** Gasolene, refined, lubricating, and fuel oils, greases. No. 107,105; Nov. 9; Gaz. vol. 220; p. 674.

Alphabetical list of registrants of trade-marks—Continued.

- Standard Oil Company, Richmond, Cal.** Fuel and road oil. No. 107,393; Nov. 23; Gaz. vol. 220; p. 1369.
- Standard Oil Company, Louisville, Ky.** Certain named oils and greases. No. 103,125; Mar. 16; Gaz. vol. 212; p. 1053.
- Standard Oil Company, Whiting, Ind., and Chicago, Ill.** Liquid paraffin. No. 103,736; Apr. 13; Gaz. vol. 213; p. 742.
- Standard Oil Company, Whiting, Ind., and Chicago, Ill.** Petrolatum-oil. No. 104,680; June 8; Gaz. vol. 215; p. 664.
- Standard Oil Company, Whiting, Ind., and Chicago, Ill.** Kerosene-oil. No. 105,504; July 27; Gaz. vol. 216; p. 1315.
- Standard Oil Company of California, San Francisco, Cal.** Lubricating-oil. No. 104,077; Apr. 27; Gaz. vol. 213; p. 1443.
- Standard Oil Company (New Jersey), Bayonne, N. J.** Refined mineral oil for use in treatment of constipation. No. 105,425; July 20; Gaz. vol. 216; p. 1010.
- Standard Oil Co. of New York, New York, N. Y.** Oil cooking-stoves and portable dwelling-house heaters. No. 102,459; Feb. 9; Gaz. vol. 211; p. 637.
- Standard Oil Company of New York, New York, N. Y.** Candles. Nos. 105,564-5; Aug. 3; Gaz. vol. 217; p. 336.
- Standard Oil Company of New York, New York, N. Y.** White mineral oil for constipation. No. 106,517; Oct. 19; Gaz. vol. 219; p. 927.
- Standard Oil Company of New York, New York, N. Y.** Lubricating-oil. No. 107,106; Nov. 9; Gaz. vol. 220; p. 674.
- Standard Pressed Steel Co., Philadelphia, Pa.** Shaft-hangers. No. 106,695; Oct. 26; Gaz. vol. 219; p. 1231.
- Standard Starter & Specialty Company, The, Cleveland, Ohio.** Engine-starters other than electrical. No. 107,564; Dec. 7; Gaz. vol. 221; p. 348.
- Standard Steel Car Company, Butler and Pittsburgh, Pa.** Automobiles. No. 107,394; Nov. 23; Gaz. vol. 220; p. 1369.
- Standard Varnish Works, New York, N. Y.** Varnishes, driers, japans, &c. No. 103,075; Mar. 16; Gaz. vol. 212; p. 1051.
- Standard Wall Paper Co., Hudson Falls, N. Y.** Wall-paper. No. 105,761; Aug. 17; Gaz. vol. 217; p. 1050.
- Standard Welding Company, The, Cleveland, Ohio.** Metallic tubing and structural elements fashioned therefrom. No. 105,377; July 20; Gaz. vol. 216; p. 1009.
- Standard Welding Company, The, Cleveland, Ohio.** Certain named parts of and fittings for vehicles. No. 105,424; July 20; Gaz. vol. 216; p. 1010.
- Standeford, Archie D., Kansas City, Mo.** Paint for screen-surfaces. No. 105,174; July 6; Gaz. vol. 216; p. 325.
- Stanley, John T., New York, N. Y.** Toilet soaps. No. 103,126; Mar. 16; Gaz. vol. 212; p. 1053.
- Stanley, John T., New York, N. Y.** Soap. Nos. 106,126-7; Oct. 12; Gaz. vol. 219; p. 582.
- Stanley Rule & Level Company, The, New Britain, Conn.** Measuring-rules. No. 106,810; Oct. 26; Gaz. vol. 219; p. 1235.
- Staples Chemical Company, R. C., Fort Smith, Ark.** Baking-powder. No. 104,754; June 15; Gaz. vol. 215; p. 972.
- Star Company, New York, N. Y.** Newspaper-section. No. 102,198; Jan. 26; Gaz. vol. 210; p. 1392.
- Star Company, New York, N. Y.** Newspaper-section. Nos. 105,615-18; Aug. 10; Gaz. vol. 217; p. 694.
- Star Company, New York, N. Y.** Newspaper-section. Nos. 107,696-9; Dec. 21; Gaz. vol. 221; p. 1035.
- Star Company, New York, N. Y.** Newspaper-section. Nos. 107,868-71; Dec. 28; Gaz. vol. 221; p. 1449.
- Star Embroidery Co., New York, N. Y.** Towels, face-cloths, and textile mats. No. 107,648; Dec. 14; Gaz. vol. 221; p. 733.
- Star Neckwear Co., New York, N. Y.** Neckties and neck-scarfs. No. 102,643; Feb. 16; Gaz. vol. 211; p. 953.
- Stark Rolling Mill Company, The, Canton, Ohio.** Rust-resisting anticorrosive metal. No. 107,210; Nov. 16; Gaz. vol. 220; p. 1037.
- Starnes, H., Atlanta, Ga.** Rubber tires, casings, blow-out patches, &c. No. 103,975; Apr. 20; Gaz. vol. 213; p. 1115.
- Starnes, Herbert, Atlanta, Ga.** Rubber tires and casings. No. 104,184; May 4; Gaz. vol. 214; p. 341.
- Starr, William B., South Bend, Ind.** Wheat and Graham flours and cornmeal. No. 103,038; Mar. 16; Gaz. vol. 212; p. 1050.
- Starrs, Geo. R., Paterson, N. J.** Valve-disks. No. 106,264; Oct. 19; Gaz. vol. 219; p. 919.
- Statter, H., Sioux City, Iowa.** Anti-hog-cholera serum and hog-cholera virus. No. 103,921; Apr. 20; Gaz. vol. 213; p. 1113.
- Staudt & Co., Berlin, Germany, and Boston, Mass.** Certain named metal, wood, and upholstered furniture. No. 102,767; Feb. 23; Gaz. vol. 211; p. 1258.
- Staudt & Co., Berlin, Germany, and Boston, Mass.** Cotton and knit goods in the piece and blankets. No. 102,819; Feb. 23; Gaz. vol. 211; p. 1259.
- Staudt & Co., Berlin, Germany, and Boston, Mass.** Rice and beans. No. 107,395; Nov. 23; Gaz. vol. 220; p. 1369.
- Stavanger Preserving Co. a/s., Stavanger, Norway.** Preserved fish. No. 103,976; Apr. 20; Gaz. vol. 213; p. 1115.
- Stearns, E. G., Chicago, Ill.** Rubber boots and shoes. No. 103,871; Apr. 20; Gaz. vol. 213; p. 1111.
- Stearns, E. G., Chicago, Ill.** Rubber boots and shoes. No. 107,483; Dec. 7; Gaz. vol. 221; p. 345.
- Stearns, Frederick K., Detroit, Mich., and New York, N. Y.** Aperient or laxative. No. 103,183; Mar. 16; Gaz. vol. 212; p. 1054.
- Steele-Wedeles Company, Chicago, Ill.** Certain named foods. No. 107,021; Nov. 9; Gaz. vol. 220; p. 672.
- Steele-Wedeles Company, Chicago, Ill.** Canned fruits, vegetables, salmon, &c. No. 107,022; Nov. 9; Gaz. vol. 220; p. 672.
- Steele-Wedeles Company, Chicago, Ill.** Certain named foods. No. 107,586; Dec. 14; Gaz. vol. 221; p. 731.
- Steele, William J., Baldwin, N. Y.** Remedy for all diseases of the throat. No. 104,009; Apr. 27; Gaz. vol. 213; p. 1441.
- Stenol Laboratories, New York, N. Y.** Liquid antiseptic. No. 103,802; Apr. 13; Gaz. vol. 213; p. 744.
- Steeves & Tilton, Boston, Mass.** Cigars. No. 105,026; June 29; Gaz. vol. 215; p. 1496.
- Stefanski, Michael L., Baltimore, Md.** Liniment for the treatment of certain named diseases and affections. No. 104,755; June 15; Gaz. vol. 215; p. 973.
- Steffens-Amberg Co., The, Newark, N. J.** Harness or saddlery hardware and hames. No. 103,803; Apr. 13; Gaz. vol. 213; p. 744.
- Stein & Coley, Inc., New York, N. Y.** Feather trimmings. No. 105,619; Aug. 10; Gaz. vol. 217; p. 694.
- Steinberger & Kalisher, New York, N. Y.** Gloves. No. 103,451; Apr. 6; Gaz. vol. 213; p. 352.
- Steiner, Carolina, Philadelphia, Pa.** Cough medicine. No. 103,364; Mar. 30; Gaz. vol. 212; p. 1685.
- Steiner & Son, Asbury Park, N. J.** Night-shirts, pajamas, and nightgowns. No. 103,185; Mar. 16; Gaz. vol. 212; p. 1054.
- Steiner & Son, Asbury Park, N. J.** Night-shirts and pajamas. No. 104,192; May 4; Gaz. vol. 214; p. 341.
- Steinfeld Bros., New York, N. Y.** Dolls. No. 102,199; Jan. 26; Gaz. vol. 210; p. 1392.
- Steinhardt & Nordlinger, New York, N. Y.** Condensed milk. No. 106,696; Oct. 26; Gaz. vol. 219; p. 1231.
- Steinwender-Stoffregen Coffee Co., St. Louis, Mo.** Roasted coffee. No. 104,810; June 15; Gaz. vol. 215; p. 974.
- Steinwender-Stoffregen Coffee Co., St. Louis, Mo.** Roasted coffee. No. 107,023; Nov. 9; Gaz. vol. 220; p. 672.
- Stenotype Co., The, Indianapolis, Ind.** Stenographic writing-machines. No. 102,200; Jan. 26; Gaz. vol. 210; p. 1392.
- Stenotype Co., The, Indianapolis, Ind.** Semimonthly publication. No. 102,343; Feb. 9; Gaz. vol. 211; p. 633.
- Sterling, F. W., Los Angeles, Cal.** Dish-washers. No. 107,650; Dec. 14; Gaz. vol. 221; p. 733.
- Sterling Gum Company, Inc., The, New York, N. Y.** Chewing-gum. No. 101,757; Jan. 12; Gaz. vol. 210; p. 710.
- Sterling Gum Company, Inc., New York, N. Y.** Chewing-gum. Nos. 103,186-7; Mar. 16; Gaz. vol. 212; p. 1054.
- Sterling Gum Company, Inc., New York, N. Y.** Chewing-gum. No. 103,685; Apr. 13; Gaz. vol. 213; p. 740.
- Sterling Gum Company, Inc., The, New York, N. Y.** Chewing-gum. No. 107,649; Dec. 14; Gaz. vol. 221; p. 733.
- Sterling Gum Company, Inc., The, New York, N. Y.** Chewing-gum. No. 107,823; Dec. 28; Gaz. vol. 221; p. 1448.
- Sterling Photo Company, Newark, N. J.** Photographs. No. 107,211; Nov. 16; Gaz. vol. 220; p. 1037.
- Sterling Portland Cement Company, New York, N. Y.** Hydraulic cement. No. 104,133; May 4; Gaz. vol. 214; p. 339.
- Stern Brothers, New York, N. Y.** Gloves. No. 106,518; Oct. 19; Gaz. vol. 219; p. 927.
- Stern & Co., I., New York, N. Y.** Certain metal alloy used as a filling for teeth. No. 102,460; Feb. 9; Gaz. vol. 211; p. 637.
- Stern Sonneborn Oil Co., The, Limited, London, England.** Refined liquid paraffin for an intestinal lubricant and laxative. No. 106,697; Oct. 26; Gaz. vol. 219; p. 1231.
- Sternau & Co., S., New York, N. Y.** Solid fuel composed mainly of alcohol. No. 105,426; July 20; Gaz. vol. 216; p. 1010.
- Sternberger-Gerber Co., Inc., New York, N. Y.** Trimmed and untrimmed hats. No. 107,651; Dec. 14; Gaz. vol. 221; p. 733.
- Sterrick Sales Corporation, The, Wilmington, Del., and Pittsburgh, Pa.** Shaving massage-brush and casing. No. 104,892; June 22; Gaz. vol. 215; p. 1259.
- Stettin, J. O. V., St. Louis, Mo.** Hose ironing and drying machines. No. 107,212; Nov. 16; Gaz. vol. 220; p. 1037.
- Steuben Glass Works, Corning, N. Y.** Illuminating-glassware. No. 104,518; June 1; Gaz. vol. 215; p. 319.
- Stevens Bros. & Co., Stevens Pottery, Ga.** Fire-brick. No. 101,802; Jan. 12; Gaz. vol. 210; p. 711.
- Stevenson & Howell, Limited, London, England.** Non-alcoholic carbonated beverages and fruit essences for making same. No. 105,566; Aug. 3; Gaz. vol. 217; p. 336.
- Stevenson Packing Company, Sedalia, Mo.** Pork sausage. No. 106,040; Sept. 14; Gaz. vol. 218; p. 600.

- Stevenson, William M., Springfield, Mass. Textile carpets and rugs. No. 104,309; May 18; Gaz. vol. 214; p. 1022.
- Stewart Allison V., et al., trustees. (See Eddy, Mary B. G.)
- Stewart, Amos, Los Angeles, Cal. Remedy for rheumatism, lumbago, and kidney trouble. No. 104,654; June 5; Gaz. vol. 215; p. 663.
- Stewart Dickson & Company, Inc., New York, N. Y. Composition packing used as a jointing. No. 105,193; July 13; Gaz. vol. 216; p. 657.
- Stewart, Harry T., borough of Sharon, Pa. Bread. No. 105,946; Aug. 31; Gaz. vol. 217; p. 1657.
- Stewart Manufacturing Company, Chicago, Ill. Pencil-sharpeners. No. 103,365; Mar. 30; Gaz. vol. 212; p. 1685.
- Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-fuel feed-receptacles for internal-combustion engines. No. 102,697; Feb. 23; Gaz. vol. 211; p. 1256.
- Stewart-Warner Speedometer Corporation, Chicago, Ill. Pumps. No. 102,698; Feb. 23; Gaz. vol. 211; p. 1256.
- Stewart-Warner Speedometer Corporation, Chicago, Ill. Odometers, revolution and motion counters. No. 105,027; June 29; Gaz. vol. 215; p. 1496.
- Stifel & Sons, J. L., Wheeling, W. Va. Cotton piece goods. No. 104,033; Apr. 27; Gaz. vol. 213; p. 1442.
- Stix, Baer & Fuller Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 104,428; May 25; Gaz. vol. 214; p. 1317.
- Stobwasser, Hermann, Berlin, Germany. Semaphores and signaling apparatus for vehicles and craft of all kinds. No. 105,086; July 6; Gaz. vol. 216; p. 322.
- Stockholms Superfosfat Fabriks Aktiebolag, Stockholm, Sweden. Certain named chemicals. No. 102,201; Jan. 26; Gaz. vol. 210; p. 1393.
- Stockman, Henry, assignor to United States Leather Company, Elizabeth, N. J. Leather. No. 103,977; Apr. 20; Gaz. vol. 213; p. 1115.
- Stockwell, Albert M., Rochester, N. Y. Chewing-gum. No. 104,519; June 1; Gaz. vol. 215; p. 319.
- Stolba, Joseph W., Cedar Rapids, Iowa. Salve. No. 103,210; Mar. 23; Gaz. vol. 212; p. 1353.
- Stone, Albert H., Boston, Mass. Furniture-leather. No. 103,127; Mar. 16; Gaz. vol. 212; p. 1053.
- Stone & Andrew, Inc., Boston, Mass. Folding coated paper. No. 107,504; Dec. 7; Gaz. vol. 221; p. 346.
- Stone Hill Wine Company, Hermann, Mo. Wines. No. 102,699; Feb. 23; Gaz. vol. 211; p. 1256.
- Stone Hill Wine Company, Hermann, Mo. Wines. No. 105,620; Aug. 10; Gaz. vol. 217; p. 694.
- Stone, Robert J., Memphis, Tenn. Medicinal preparation for indigestion, dyspepsia, gout, &c. No. 106,519; Oct. 19; Gaz. vol. 219; p. 927.
- Stonefield-Evans Shoe Co., Rockford, Ill. Shoes. No. 103,830; Apr. 13; Gaz. vol. 213; p. 745.
- Stoner, Harry L., Portland, Ore. Furniture-polish. No. 105,968; Aug. 31; Gaz. vol. 217; p. 1658.
- Stork Brothers, Adamstown, Pa. Hosiery. No. 103,334; Mar. 30; Gaz. vol. 212; p. 1684.
- Stork Company, The, Boston, Mass. Waterproof paper in sheets and rolls. No. 101,985; Jan. 19; Gaz. vol. 210; p. 1061.
- Story-Simmons Co., Boston, Mass. Fresh, smoked, and cured fish. No. 103,039; Mar. 16; Gaz. vol. 212; p. 1050.
- Stotherts Limited, Atherton, England. Tablets used as castor-oil substitute. No. 106,811; Oct. 26; Gaz. vol. 219; p. 1235.
- Strand Men's Wear Co., Inc., New York, N. Y. Certain named men's clothing. No. 107,024; Nov. 9; Gaz. vol. 220; p. 672.
- Strathmore Paper Company, West Springfield, Me. Cover-paper. No. 106,880; Oct. 19; Gaz. vol. 219; p. 923.
- Stratton & Johnson, Paris, Tex. Mush-bread. No. 105,762; Aug. 17; Gaz. vol. 217; p. 1050.
- Strause Gas Iron Company, Philadelphia, Pa. Gas-irons. No. 105,763; Aug. 17; Gaz. vol. 217; p. 1050.
- Strause Gas Iron Company, Philadelphia, Pa. Gas-iron. No. 106,520; Oct. 19; Gaz. vol. 219; p. 927.
- Strawn, Wilber C., Visalia, Cal. Automobile-polish. No. 103,128; Mar. 16; Gaz. vol. 212; p. 1053.
- Streett, Charles H., Minneapolis, Minn. Store and window display fixtures. No. 105,401; July 20; Gaz. vol. 216; p. 1010.
- Strohbeck, Chas. W., New York, N. Y. Cushion-heels. No. 104,997; June 29; Gaz. vol. 215; p. 1495.
- Strohmeyer & Arpe Company, New York, N. Y. Certain named foods. Nos. 102,768-70; Feb. 23; Gaz. vol. 211; p. 1258.
- Strohmeyer & Arpe Company, New York, N. Y. Certain named foods. No. 103,013; Mar. 16; Gaz. vol. 212; p. 1049.
- Strohmeyer & Arpe Company, New York, N. Y. Certain named foods. No. 103,188-9; Mar. 16; Gaz. vol. 212; p. 1054.
- Strohmeyer & Arpe Company, New York, N. Y. Certain named foods. No. 103,300; Mar. 30; Gaz. vol. 212; p. 1633.
- Strohmeyer & Arpe Company, New York, N. Y. Preserved and canned fish. No. 106,521; Oct. 19; Gaz. vol. 219; p. 927.
- Strohmeyer & Arpe Company, New York, N. Y. Canned and preserved fish. No. 107,025; Nov. 9; Gaz. vol. 220; p. 672.
- Strong & Cobb Company, The, Cleveland, Ohio. Preparations for treatment of certain named diseases and ailments. No. 102,202; Jan. 26; Gaz. vol. 210; p. 1393.
- Strong, William J. H., Beloit, Wis. Water. No. 103,573; Apr. 6; Gaz. vol. 213; p. 356.
- Strong, William J. H., Beloit, Wis. Steam-turbines and parts thereof. No. 103,627; Apr. 6; Gaz. vol. 213; p. 358.
- Strong, William J. H., Beloit, Wis. Unitary fluid-pressure-motor-driven fans and parts thereof. No. 105,906; Aug. 24; Gaz. vol. 217; p. 1337.
- Strong, William J. H., Beloit, Wis. Unitary fluid-pressure-motor-driven fans and parts. Nos. 107,107-8; Nov. 9; Gaz. vol. 220; p. 674.
- Stroud, Morris R., Philadelphia, Pa. Greases and lubricants. (rust-preventive.) No. 103,574; Apr. 6; Gaz. vol. 213; p. 356.
- Struby-Estabrook Mercantile Company, The, assignor to The Morey Mercantile Co., Denver, Colo. Certain named foods. No. 101,684; Jan. 5; Gaz. vol. 210; p. 395.
- Strum, Johann F., New York, N. Y. Cigarettes. No. 103,880; Apr. 20; Gaz. vol. 213; p. 1112.
- Strunz & Son, S., Pittsburgh, Pa. Preparation for washing clothes. No. 101,803; Jan. 12; Gaz. vol. 210; p. 711.
- Stuart, Frank A., Marshall, Mich. Fresh fruits, not including oranges. No. 102,771; Feb. 23; Gaz. vol. 211; p. 1258.
- Stuart, Milliken & Co., New York, N. Y. Men's and ladies' hose. No. 103,628; Apr. 6; Gaz. vol. 213; p. 358.
- Stude Baking Company, Houston, Tex. Cakes. No. 107,213; Nov. 16; Gaz. vol. 220; p. 1037.
- Stuyvesant Co., The, New York, N. Y. Periodical publication issued monthly. No. 107,505; Dec. 7; Gaz. vol. 221; p. 346.
- Styers Mercantile Co., Greensburg, Ind. Stock tonic. No. 102,726; Feb. 23; Gaz. vol. 211; p. 1257.
- Suburban Lighting Co., Toledo, Ohio. Certain named electrical apparatus, machines, and supplies. No. 107,214; Nov. 16; Gaz. vol. 220; p. 1037.
- Suburban Press, The, New York, N. Y. Monthly magazine. No. 102,909; Mar. 2; Gaz. vol. 212; p. 323.
- Suñes, de Eduardo Gonzalez & Co. S. en C., Mayaguez, Porto Rico. Women's high and low shoes and slippers made of leather and cloth. No. 107,215; Nov. 16; Gaz. vol. 220; p. 1037.
- Suckling & Sons, Wm., Birmingham, England. Certain named goods of precious metal. No. 102,203; Jan. 26; Gaz. vol. 210; p. 1393.
- Sugar Land Feed Company, Sugar Land, Tex. Stock feed. No. 102,772; Feb. 23; Gaz. vol. 211; p. 1258.
- Sullivan, Frank B., Boston, Mass. Certain named foods. No. 106,083; Oct. 5; Gaz. vol. 219; p. 267.
- Sullivan, Mary E., Richmond, Va. Certain medicines for diarrhea, dysentery, cholera, &c. No. 105,087; July 6; Gaz. vol. 216; p. 322.
- Sultan, Frederick W., St. Louis, Mo. Dentifrices. No. 105,402; July 20; Gaz. vol. 216; p. 1010.
- Sulzberger & Sons Company, New York, N. Y. Certain named hair and fiber products for upholstering purposes. No. 104,034; Apr. 27; Gaz. vol. 213; p. 1442.
- Sulzberger & Sons Company, New York, N. Y. Certain named materials to be used for upholstering purposes. No. 104,035; Apr. 27; Gaz. vol. 213; p. 1442.
- Sulzberger & Sons Company, New York, N. Y. Certain named hair and fiber products for upholstering purposes. Nos. 104,036-43; Apr. 27; Gaz. vol. 213; p. 1442.
- Sumida, Igahiko, Dairi-cho, near Mōji, Kiku-gun, Japan. Beer. Nos. 107,565-6; Dec. 7; Gaz. vol. 221; p. 348.
- Sumter Electrical Company, Sumter, S. C. Magnetos. Nos. 104,681-2; June 8; Gaz. vol. 215; p. 664.
- Sunbeam Motor Car Company, The, Limited, Wolverhampton, England. Motor-cars. No. 103,864; Apr. 20; Gaz. vol. 213; p. 1111.
- Surbrug Chocolate Corporation. (See Surbrug, Firm of J. W., assignor.)
- Surbrug, Firm of J. W., assignor to Surbrug Chocolate Corporation, New York, N. Y. Chocolates. No. 105,427; July 20; Gaz. vol. 216; p. 1010.
- Surbrug, Firm of J. W., New York, N. Y. Biscuits. No. 105,621; Aug. 10; Gaz. vol. 217; p. 694.
- Surpass Chemical Co., Inc., Menands and Albany, N. Y. Bleaching salts and sodas, cleaning and dyeing preparations. No. 105,765; Aug. 17; Gaz. vol. 217; p. 1050.
- Sussfeld, Lorsch & Co., New York, N. Y. Eye-protectors, goggles, and spectacles. No. 101,654; Jan. 5; Gaz. vol. 210; p. 394.
- Sussfeld, Lorsch & Co., New York, N. Y. Eye-protectors, goggles, and spectacles. No. 102,204; Jan. 26; Gaz. vol. 210; p. 1393.
- Sutcliffe & Sons, John, Bradford, England. Yarns of wool, worsted, or hair. No. 101,986; Jan. 19; Gaz. vol. 210; p. 1061.
- Suzuki, Tozaburo, Sunamura, Japan. Fertilizer materials. No. 103,301; Mar. 30; Gaz. vol. 212; p. 1684.
- Svensons Motorfabrik, J. V., Stockholm, Sweden. Certain named machinery and tools. No. 105,328; July 20; Gaz. vol. 216; p. 1007.

Alphabetical list of registrants of trade-marks—Continued.

- Swaab, San & Marqusee, Philadelphia, Pa. Cigars, cigarettes, cheroots, and manufactured tobacco. No. 101,655; Jan. 5; Gaz. vol. 210; p. 394.
- Swampland Medicine Co., Ada, Okla. Medicines for the treatment of certain named diseases. No. 102,205; Jan. 26; Gaz. vol. 210; p. 1393.
- Swan Waist Co., New York, N. Y. Ladies' outer waists. No. 105,279; July 13; Gaz. vol. 216; p. 660.
- Swedish Separator Co., Chicago, Ill. Cream-separators. No. 104,785; June 15; Gaz. vol. 215; p. 973.
- Sweet Candy Company, Salt Lake City, Utah. Chocolates. Nos. 104,849-50; June 22; Gaz. vol. 215; p. 1257.
- Swift and Company, Chicago, Ill. Cold-water soap. No. 101,884; Jan. 12; Gaz. vol. 210; p. 713.
- Swift and Company, Chicago, Ill. Lard and salad-oil. No. 102,590; Feb. 16; Gaz. vol. 211; p. 952.
- Swift and Company, Chicago, Ill. White laundry soap. No. 103,831; Apr. 13; Gaz. vol. 213; p. 745.
- Swift & Company, Chicago, Ill. Compound composed of cotton-seed oil and oleo-stearin. No. 105,926; Aug. 24; Gaz. vol. 217; p. 1337.
- Swift and Company, Chicago, Ill. Toilet soap. No. 107,435; Nov. 23; Gaz. vol. 220; p. 1371.
- Swift & Covington, Oakland, Cal. Ship and dock pile timbers. No. 106,698; Oct. 26; Gaz. vol. 219; p. 1231.
- Swiss Lace and Embroidery Co., Chicago, Ill. Laces. No. 103,978; Apr. 20; Gaz. vol. 213; p. 1115.
- Syracuse Smelting Works, Brooklyn, N. Y. Type-metal. No. 107,216; Nov. 16; Gaz. vol. 220; p. 1037.
- Syracuse Smelting Works, Brooklyn, N. Y. Babbitt metal. No. 107,217; Nov. 16; Gaz. vol. 220; p. 1037.
- T. A. Faulds Company. (See Faulds, Thomas A., assignor.)
- T. A. Willson & Co., Inc., Reading, Pa. Ophthalmic mountings and parts thereof. No. 102,482; Feb. 9; Gaz. vol. 211; p. 637.
- T. A. Willson & Co., Inc., Reading, Pa. Ophthalmic mountings and parts thereof. No. 104,113; Apr. 27; Gaz. vol. 213; p. 1444.
- T. S. Southgate & Co., Inc., Norfolk, Va. Canned herring-roe and oysters. No. 102,197; Jan. 26; Gaz. vol. 210; p. 1392.
- Tacony File and Hardware Company, Philadelphia, Pa. Files of all kinds and sizes. No. 103,211; Mar. 23; Gaz. vol. 212; p. 1353.
- Tagalog & Tagalog, Charlotte, N. C. Hair-dressing. No. 106,812; Oct. 26; Gaz. vol. 219; p. 1235.
- Tabara Company of America, Philadelphia, Pa. Silver burnishing and cleaning machines. No. 101,656; Jan. 5; Gaz. vol. 210; p. 394.
- Takasugi, Saburo R., Los Angeles, Cal. Stock for soups and dressing for salads. No. 103,865; Apr. 20; Gaz. vol. 213; p. 1111.
- Talking Doll & Novelty Co., Inc., New York, N. Y. Phonographs. No. 106,187; Oct. 12; Gaz. vol. 219; p. 584.
- Tampa Citrus Growers Association, Tampa, Fla. Citrus fruits. No. 106,699; Oct. 26; Gaz. vol. 219; p. 1231.
- Tasty Baking Co., Philadelphia, Pa. Bread, cake, and crackers. No. 101,657; Jan. 5; Gaz. vol. 210; p. 394.
- Taubel Bros., Philadelphia, Pa. Hosiery. No. 101,987; Jan. 19; Gaz. vol. 210; p. 1061.
- Tausig, Emil, New York, N. Y. Hair-color restorers and hair-removers. No. 106,188; Oct. 12; Gaz. vol. 219; p. 584.
- Taux-Wel Talking Machine Company, Gloucester, N. J. Talking-machines. No. 106,189; Oct. 12; Gaz. vol. 219; p. 584.
- Taylor-Atkins Paper Company, The, East Hartford and Burnside, Conn. Writing paper, pads, and tablets and envelopes. No. 101,885; Jan. 12; Gaz. vol. 210; p. 714.
- Taylor Chemical Co., Boston, Mass. Writing-ink. No. 104,957; June 29; Gaz. vol. 215; p. 1494.
- Taylor Company, John S., Largo, Fla. Oranges and grapefruit. No. 107,026; Nov. 9; Gaz. vol. 220; p. 672.
- Taylor Instrument Companies, Rochester, N. Y. Thermometers. No. 101,804; Jan. 12; Gaz. vol. 210; p. 711.
- Taylor-Logan Co. Papermakers, Holyoke, Mass. Envelops. No. 102,884; Feb. 23; Gaz. vol. 211; p. 1261.
- Taylor-Logan Co. Papermakers, Holyoke, Mass. Writing-paper. No. 105,829; Aug. 17; Gaz. vol. 217; p. 1052.
- Taylor, Mable P., Cleveland Ohio. Salted peanuts. No. 105,000; June 29; Gaz. vol. 215; p. 1495.
- Taylor, Milton M., Tampa, Fla. Chill-tonics, liver medicines, &c. No. 107,218; Nov. 16; Gaz. vol. 220; p. 1037.
- Teckmeyer Candy Co., Madison, Wis. Candy. No. 103,040; Mar. 16; Gaz. vol. 212; p. 1050.
- Teerling, Carl, Savannah, Ga. Fertilizer. No. 106,265; Oct. 19; Gaz. vol. 219; p. 919.
- Teeter, Clarence E., Huron, Kans. Preparation for hog-cholera. No. 106,381; Oct. 19; Gaz. vol. 219; p. 923.
- Teitelbaum, Isidor, Cleveland, Ohio. Cigars. No. 104,550; June 1; Gaz. vol. 215; p. 320.
- Telbax Co., The, Mishawaka, Ind. Card games. No. 102,206; Jan. 26; Gaz. vol. 210; p. 1393.
- Temco Electric Motor Company, The, Leipsic, Ohio. Electric drills, grinders, buffers, and parts thereof. No. 103,130; Mar. 16; Gaz. vol. 212; p. 1053.
- Temco Electric Motor Company, The, Leipsic, Ohio. Shock-absorbers. No. 103,190; Mar. 16; Gaz. vol. 212; p. 1055.
- Templetons Rheumatic Capsule Corporation Limited, Toronto, Ontario, Canada. Remedy for rheumatism. No. 104,689; June 8; Gaz. vol. 215; p. 664.
- Terryberry, George, Cleveland, Ohio. Wheat-flour. No. 104,655; June 8; Gaz. vol. 215; p. 663.
- Tetlow, Clara, Philadelphia, Pa. Complexion-powders. No. 104,400; May 25; Gaz. vol. 214; p. 1316.
- Tetlow, Clara, Philadelphia, Pa. Face-powder. No. 104,489; June 1; Gaz. vol. 215; p. 318.
- Tetlow Co., Henry, Philadelphia, Pa. Face-powder. No. 103,979; Apr. 20; Gaz. vol. 213; p. 1115.
- Tetlow Co., Henry, Philadelphia, Pa. Face-powder. No. 105,378; July 20; Gaz. vol. 216; p. 1009.
- Tetlow Co., Henry, Philadelphia, Pa. Rouge. No. 105,379; July 20; Gaz. vol. 216; p. 1009.
- Tetlow Co., Henry, Philadelphia, Pa. Face-powder. No. 105,380; July 20; Gaz. vol. 216; p. 1009.
- Tetlow Co., Henry, Philadelphia, Pa. Toilet preparation for use as a deodorant. No. 105,381; July 20; Gaz. vol. 216; p. 1009.
- Tetlow Co., Henry, Philadelphia, Pa. Face-powder. No. 105,382; July 20; Gaz. vol. 216; p. 1009.
- Tetra Company, The, Chicago, Ill. Gauzes, bandages, surgeons' operating coats and masks, &c. No. 102,207; Jan. 26; Gaz. vol. 210; p. 1393.
- Tetzloff, Dekota M., Independence, Iowa. Metal-polishes. No. 105,001; June 29; Gaz. vol. 215; p. 1495.
- Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. No. 107,109; Nov. 9; Gaz. vol. 220; p. 674.
- Texas Gum Co., Temple, Tex. Chewing-gum. No. 105,567; Aug. 3; Gaz. vol. 217; p. 336.
- Texas Gum Company (Inc.), Temple, Tex. Chewing-gum. No. 105,088; July 6; Gaz. vol. 216; p. 322.
- Textile Products Company, Boston, Mass. Dresses. No. 104,110; Apr. 27; Gaz. vol. 213; p. 1444.
- Textile Products Company, Boston, Mass. Dresses. No. 104,237; May 11; Gaz. vol. 214; p. 678.
- Textile Shirt Co., The, Cincinnati, Ohio. Men's dress and negligée shirts. Nos. 104,134-5; May 4; Gaz. vol. 214; p. 339.
- Textile Yarn Agency Inc., New York, N. Y. Yarns. No. 106,914; Nov. 2; Gaz. vol. 220; p. 345.
- Thanhouser Film Corporation, New Rochelle, N. Y. Motion-picture films. No. 103,191; Mar. 16; Gaz. vol. 212; p. 1055.
- Thanhouser Film Corporation, New Rochelle, N. Y. Motion-picture films. No. 105,706; Aug. 17; Gaz. vol. 217; p. 1050.
- Thanhouser Film Corporation, New Rochelle, N. Y. Motion-picture films. No. 107,297; Nov. 16; Gaz. vol. 220; p. 1040.
- Thatcher, Charles F., Providence, R. I. Non-alcoholic tonic carbonated beverages. No. 107,396; Nov. 23; Gaz. vol. 220; p. 1369.
- Theloh Co., The, St. Marys, Ohio. Certain named pharmaceutical preparations. No. 105,451; July 27; Gaz. vol. 216; p. 1313.
- Theo. B. Robertson Soap Co., Chicago, Ill. Liquid soap, soap powder, cleanser, and sweeping compound. No. 107,012; Nov. 9; Gaz. vol. 220; p. 671.
- Thermoid Rubber Company, Hamilton township, Mercer county, N. J. Rubber automobile-casings, inner tubes, re-liners for casings, &c. No. 103,452; Apr. 6; Gaz. vol. 213; p. 352.
- Thieme & Wagner Brewing Co., La Fayette, Ind. Beer. No. 105,947; Aug. 31; Gaz. vol. 217; p. 1657.
- Thiriez Pere et Fils, J., Lille, France. Cotton and linen threads. No. 102,298; Feb. 2; Gaz. vol. 211; p. 280.
- Thomas A. Edison, Incorporated, West Orange, N. J. Sound-reproducers. No. 107,252; Nov. 16; Gaz. vol. 220; p. 1038.
- Thomas B. Jeffery Company, The, Kenosha, Wis. Automobiles. No. 101,950; Jan. 19; Gaz. vol. 210; p. 1060.
- Thomas B. Jeffery Company, Kenosha, Wis. Motor-trucks. No. 102,520; Feb. 9; Gaz. vol. 211; p. 638.
- Thomas & Bishop, London, England. Cement for packing metallic joints. No. 104,490; June 1; Gaz. vol. 215; p. 318.
- Thomas Brothers & Klein, Incorporated, Canton, Md. Charcoal. No. 106,266; Oct. 19; Gaz. vol. 219; p. 919.
- Thomas Cort, Inc., Newark, N. J. Ladies' and men's leather shoes. No. 101,621; Jan. 5; Gaz. vol. 210; p. 393.
- Thomas G. Plant Company, Boston, Mass. Boots, shoes, and slippers. Nos. 106,496-7; Oct. 19; Gaz. vol. 219; p. 926.
- Thomas, James, Nashville, Tenn. Mineral water. No. 106,813; Oct. 26; Gaz. vol. 219; p. 1235.
- Thomas Maddock's Sons Company, Trenton, N. J. Vitreous-china water-closets, urinals, lavatories, &c. No. 104,802; June 15; Gaz. vol. 215; p. 974.
- Thomas Maddock's Sons Co., Trenton, N. J. Tanks for water-closets. No. 106,167; Oct. 12; Gaz. vol. 219; p. 583.
- Thomas Maddock's Sons Company, Trenton, N. J. Certain named vitreous china bath-room trimmings and fittings. No. 106,458; Oct. 19; Gaz. vol. 219; p. 925.
- Thomas Manufacturing Company, The, Dayton, Ohio. Pocket, pen, clasp, and pruning knives. No. 106,701; Oct. 26; Gaz. vol. 219; p. 1231.

- Thomas Pineapple Company, The, Limited, Honolulu, Hawaii. Canned pineapple. No. 105,089; July 6; Gaz. vol. 216; p. 322.
- Thomas, Robert G., New York, N. Y. Coffee. No. 106,057; Sept. 21; Gaz. vol. 218; p. 873.
- Thomas' Sons, J. R., Youngstown, Ohio. Canned fruit. No. 101,758; Jan. 12; Gaz. vol. 210; p. 710.
- Thompson Manufacturing Company, Holland, Mich. Tables, bookcases, desks, couches, &c. No. 104,064; Apr. 27; Gaz. vol. 213; p. 1443.
- Thompson Milling Company, Philadelphia, Pa. Soups—flours made of beans, peas, &c. No. 104,520; June 1; Gaz. vol. 215; p. 319.
- Thompson Remedy Co., East Chicago, Ind. Remedy for la grippe, ague, influenza, and malaria. No. 106,814; Oct. 26; Gaz. vol. 219; p. 1235.
- Thompson's Malted Food Company, Waukesha, Wis. Dry malted food. No. 102,208; Jan. 26; Gaz. vol. 210; p. 1393.
- Thompson's Malted Food Company, Phoenix, Ariz., and Waukesha, Wis. Certain malted foods. No. 104,159; May 4; Gaz. vol. 214; p. 340.
- Thornton & Chester Milling Co., Buffalo, N. Y. Wheat-flour. No. 107,588; Dec. 14; Gaz. vol. 221; p. 731.
- Thornton & Chester Milling Company, Buffalo, N. Y. Wheat-flour. No. 107,796; Dec. 28; Gaz. vol. 221; p. 1447.
- Thornton Sanitary Drinking Device Co., Kansas City, Mo. Disinfectant, sanaseptic, and germicide for household purposes. No. 104,310; May 18; Gaz. vol. 214; p. 1022.
- Thurman, William B., Madera, Cal. Toy building-blocks. No. 105,383; July 20; Gaz. vol. 216; p. 1009.
- Thymo Company, The, Hope, Ark. Remedy for certain named diseases. No. 105,090; July 6; Gaz. vol. 216; p. 322.
- Ticker Publishing Co., The, New York, N. Y. Weekly financial publication. No. 105,879; Aug. 24; Gaz. vol. 217; p. 1336.
- Ticker Publishing Co., New York, N. Y. Fortnightly financial publication. No. 105,880; Aug. 24; Gaz. vol. 217; p. 1336.
- Tide Water Oil Co., New York, N. Y. Certain named petroleum products. No. 107,397; Nov. 23; Gaz. vol. 220; p. 1369.
- Tiffany, Henry L., New Bedford, Mass. Yarn, thread, and twine and wound packages thereof. No. 105,767; Aug. 17; Gaz. vol. 217; p. 1050.
- Tiffany, Henry L., New Bedford, Mass. Cone-tubes for receiving yarn, thread, and twine in wound condition. No. 107,398; Nov. 23; Gaz. vol. 220; p. 1369.
- Tifton Farm Tool Manufacturing Company, Tifton, Ga. Guano-distributors, grain-drills, and peg-tooth harrows. No. 105,568; Aug. 3; Gaz. vol. 217; p. 337.
- Tilden Produce Co., St. Paul, Minn. Butter, cheese, and eggs. No. 107,110; Nov. 9; Gaz. vol. 220; p. 674.
- Tilden Saw Co., Wyandotte, Mich. Butchers' supplies. No. 103,629; Apr. 6; Gaz. vol. 213; p. 358.
- Tillmann & Bendel, San Francisco, Cal. Certain named foods. No. 105,145; July 6; Gaz. vol. 216; p. 324.
- Tilly, H. L., Memphis, Tenn. Hair-tonic. No. 103,630; Apr. 6; Gaz. vol. 213; p. 358.
- Tilzer Brothers, New York, N. Y. Tea. No. 105,028; June 29; Gaz. vol. 215; p. 1496.
- Timothy F. Crowley, Incorporated, New York, N. Y. Ladies' guimpe-cafes, laces, chiffons, silks, &c. No. 102,258; Feb. 2; Gaz. vol. 211; p. 279.
- Timothy F. Crowley, Incorporated, New York, N. Y. Ladies' collars made of fancy and plain nets, laces, chiffons, &c. No. 102,560; Feb. 16; Gaz. vol. 211; p. 951.
- Timothy F. Crowley, Incorporated, New York, N. Y. Ladies' collars made of nets, laces, chiffons, &c. No. 102,680; Feb. 23; Gaz. vol. 211; p. 1255.
- Timothy F. Crowley, Incorporated, New York, N. Y. Ladies' collars made of plain and fancy nets, laces, chiffons, &c. No. 102,856; Feb. 23; Gaz. vol. 211; p. 1260.
- Timothy F. Crowley, Incorporated, New York, N. Y. Ladies' fichus made of fancy and plain nets, laces, chiffons, silks, &c. No. 103,944; Apr. 20; Gaz. vol. 213; p. 1114.
- Timothy F. Crowley, Incorporated, New York, N. Y. Ladies' collars made of nets, laces, chiffons, silks, &c. No. 104,668; June 8; Gaz. vol. 215; p. 663.
- Timothy F. Crowley, Incorporated, New York, N. Y. Ladies' collars made of nets, laces, &c. No. 104,962; June 29; Gaz. vol. 215; p. 1494.
- Tiny Togs Company, The, St. Louis, Mo. Hosiery, hats, caps, dresses, &c. No. 107,587; Dec. 14; Gaz. vol. 221; p. 731.
- Tioza Mill & Elevator Company, Waverly, N. Y. Poultry-grain, dry-mash chick and stock feeds, and middlings. No. 107,111; Nov. 9; Gaz. vol. 220; p. 674.
- Tiona Oil Company, Binghamton, N. Y. Lubricating-oils. No. 104,271; May 11; Gaz. vol. 214; p. 679.
- Tippenhauer, Henry R., New York, N. Y. Coffee. No. 104,272; May 11; Gaz. vol. 214; p. 679.
- Tire Seal Co. Inc., New York, N. Y. Preparation to seal punctures in tires. No. 104,656; June 8; Gaz. vol. 215; p. 663.
- Titus Blatter and Company, New York, N. Y. Handkerchiefs. No. 103,043-4; Mar. 16; Gaz. vol. 212; p. 1050.
- Tmco Mfg. Co., Inc., New York, N. Y. Disinfecting-paint. No. 106,522; Oct. 19; Gaz. vol. 219; p. 927.
- Tobias Bluestein, Inc., Chicago, Ill. Cigarettes. No. 103,939; Apr. 20; Gaz. vol. 213; p. 1113.
- Toch Brothers, New York, N. Y. Ready-mixed paints. No. 103,302; Mar. 30; Gaz. vol. 212; p. 1683.
- Toch Brothers, New York, N. Y. Oil and water proof paints. No. 105,702; Aug. 10; Gaz. vol. 217; p. 697.
- Toch Brothers, New York, N. Y. Ready-mixed waterproof paints for protective coatings, &c. No. 107,399; Nov. 23; Gaz. vol. 220; p. 1369.
- Toilette Products Company, Inc., New York, N. Y. Cleansing-cream for the skin. No. 102,550; Feb. 9; Gaz. vol. 211; p. 639.
- Tokalon, Incorporated, New York, N. Y. Perfumery. No. 103,866; Apr. 20; Gaz. vol. 213; p. 1111.
- Toledo Bread Company, The, Toledo, Ohio. Bread. No. 101,805; Jan. 12; Gaz. vol. 210; p. 711.
- Tomahawk Medicine Co., Bowling Green, Ky. Salve. No. 106,267; Oct. 19; Gaz. vol. 219; p. 919.
- Tomby, Borgfeldt, New York, N. Y. Shades made of glass for lighting purposes. No. 103,272; Mar. 23; Gaz. vol. 212; p. 1355.
- Tompkins-Kiel Marble Co., New York, N. Y. Certain named construction materials. No. 107,298; Nov. 16; Gaz. vol. 220; p. 1040.
- Tomson & Co., P. C., Philadelphia, Pa. Soap, soap powder, and cleansers. No. 102,910; Mar. 2; Gaz. vol. 212; p. 323.
- Tomson & Co., P. C., Philadelphia, Pa. Soap and soap powder. No. 104,958; June 29; Gaz. vol. 215; p. 1494.
- Tomson & Co., P. C., Philadelphia, Pa. Lye. No. 105,881; Aug. 24; Gaz. vol. 217; p. 1336.
- Tona Vita Medicine Co., Dayton, Ohio. Tonic or stimulant. No. 102,911; Mar. 2; Gaz. vol. 212; p. 323.
- Tona Vita Medicine Company. (See Cooper Medicine Company, assignor.)
- Tootal, Broadhurst Lee Company, Ltd., Manchester, England. Certain named cotton piece goods. No. 104,917; June 22; Gaz. vol. 215; p. 1259.
- Tormohlen, Herbert V., Portland, Ind. Poultry and eggs for breeding and hatching. No. 104,364; May 25; Gaz. vol. 214; p. 1315.
- Toronto Rubber Co., The, Toronto, Ohio. Hoof-pads. No. 101,759; Jan. 12; Gaz. vol. 210; p. 710.
- Torpedo Chemical Co., Chicago, Ill. Corn remedy. No. 105,927; Aug. 24; Gaz. vol. 217; p. 1337.
- Torrence, James S., San Francisco, Cal. Razors. No. 107,027; Nov. 9; Gaz. vol. 220; p. 672.
- Torres, Jose, Brooklyn, N. Y. Granulated-composition-cork disks and tin bottle-caps made up with granulated-cork disks. No. 104,342; May 18; Gaz. vol. 214; p. 1022.
- Torrey-Epstein Co., Boston, Mass. Ladies' garments. No. 105,403; July 20; Gaz. vol. 216; p. 1010.
- Touche Valley Growers Union, Dayton, Wash. Fresh apples. No. 102,462; Feb. 9; Gaz. vol. 211; p. 637.
- Touchton, Chas. F., Dade City, Fla. Remedy for certain named ailments and diseases. No. 102,463; Feb. 9; Gaz. vol. 211; p. 637.
- Touraine Co., The, Philadelphia, Pa. Automobiles and motor-trucks. No. 102,464; Feb. 9; Gaz. vol. 211; p. 637.
- Tower Manufacturing & Novelty Co., New York, N. Y. Card-index boxes made of wood. No. 104,852; June 22; Gaz. vol. 215; p. 1258.
- Tower Manufacturing & Novelty Company, New York, N. Y. Stationery and supplies. No. 107,748; Dec. 28; Gaz. vol. 221; p. 1445.
- Townsend & Co., E. M., New York, N. Y. Hosiery. No. 103,132; Mar. 16; Gaz. vol. 212; p. 1053.
- Tradesmen's Publishing Co., St. Louis, Mo. Magazine issued weekly. No. 106,058; Sept. 21; Gaz. vol. 218; p. 873.
- Traina & Co., A., New York, N. Y. Ladies' and misses' dresses. No. 105,280; July 13; Gaz. vol. 216; p. 660.
- Trayser Piano Company, Richmond, Ind. Pianos, player-pianos, and parts thereof. No. 102,912; Mar. 2; Gaz. vol. 212; p. 323.
- Treevax Chemical Co., The, Hicksville, Ohio. Scale and insect exterminator. No. 103,455; Apr. 6; Gaz. vol. 213; p. 352.
- Treinis Bros., New York, N. Y. Sweaters. No. 104,583; June 1; Gaz. vol. 215; p. 321.
- Tremont Stores, Inc., The, Boston, Mass. Bedspreads, sheets, cotton piece goods, table-cloths, &c. No. 107,457; Nov. 30; Gaz. vol. 220; p. 1715.
- Tremont & Suffolk Mills, Lowell, Mass. Cotton piece goods. No. 103,131; Mar. 16; Gaz. vol. 212; p. 1053.
- Trenton Potteries Company, The, Trenton, N. J. Vitreous-china water-closets, lavatories, &c. No. 107,219; Nov. 16; Gaz. vol. 220; p. 1037.
- Trey Bros., de, Zurich, Switzerland. Dental supplies. No. 104,867; June 22; Gaz. vol. 215; p. 1258.
- Tri-State Candy Co. Inc., Conneltsville, Pa. Candy. No. 106,702; Oct. 26; Gaz. vol. 219; p. 1232.
- Tribbey, Arthur W., Maud, Okla. Preparation for skin diseases. No. 102,591; Feb. 16; Gaz. vol. 211; p. 952.
- Trimble, M. E., Cincinnati, Ohio. Electric-lighting units. No. 102,209; Jan. 26; Gaz. vol. 210; p. 1393.
- Triplett, Joseph L., Woodstock, Va. Wheat-flour. No. 106,383; Oct. 19; Gaz. vol. 219; p. 923.

Alphabetical list of registrants of trade-marks—Continued.

- Triton Phonograph Co. Inc., New York, N. Y. Talking-machines, phonographs, gramophones, &c. No. 102,465; Feb. 9; Gaz. vol. 211; p. 637.
- Triumph Liquid Soap Company, Grinnell, Iowa. Soaps. No. 104,238; May 11; Gaz. vol. 214; p. 678.
- Triumph Manufacturing Co., The, Cincinnati, Ohio. Certain named machinery and tools. No. 103,076; Mar. 16; Gaz. vol. 212; p. 1051.
- Triumph Mills, Tampa, Fla. Coffee and chicory. No. 101,887; Jan. 12; Gaz. vol. 210; p. 714.
- Triumph Mills, Tampa, Fla. Coffee. No. 101,888; Jan. 12; Gaz. vol. 210; p. 714.
- Triumph Mills, Tampa, Fla. Coffee. Nos. 101,989-90; Jan. 19; Gaz. vol. 210; p. 1061.
- Triumph Mills, Tampa, Fla. Coffee, tea, and spices. No. 102,210; Jan. 26; Gaz. vol. 210; p. 1393.
- Trolin, Morris, New York, N. Y. Hair switches and wigs. No. 102,885; Feb. 23; Gaz. vol. 211; p. 1261.
- Tropical Fruit Nectar Company, Minneapolis, Minn. Non-alcoholic beverages made from fruit-juices. No. 102,773; Feb. 23; Gaz. vol. 211; p. 1258.
- Trotter, John A., Milwaukee, Wis. Medicated pads. No. 102,949; Mar. 2; Gaz. vol. 212; p. 325.
- Troy Chemical Co., Binghamton, N. Y. Remedy for scours. No. 105,175; July 5; Gaz. vol. 216; p. 325.
- Truax & Company, C. C., assignor to United Grocers Company, Toledo, Ohio. Porous plasters. No. 101,760; Jan. 12; Gaz. vol. 210; p. 710.
- True Shape Hosiery Company, Philadelphia, Pa. Hosiery. No. 102,211; Jan. 26; Gaz. vol. 210; p. 1393.
- Trujillo-Marin, Lorenzo, New York, N. Y. Pills, candles, suppositories, and salves. No. 103,355; Mar. 30; Gaz. vol. 212; p. 1685.
- Trujillo-Marin, Lorenzo, New York, N. Y. Pills, candles, suppositories, and salves. No. 104,425; May 25; Gaz. vol. 214; p. 1317.
- Trumbull Steel Company, The, Warren, Ohio. Flat steel sheets. No. 103,212; Mar. 23; Gaz. vol. 212; p. 1353.
- Trumbull Steel Company, The, Warren, Ohio. Formed steel roofing. No. 103,213; Mar. 23; Gaz. vol. 212; p. 1353.
- Trump, Augustus C., Columbus, Ohio. External application for the relief of certain named ailments. No. 103,575; Apr. 6; Gaz. vol. 213; p. 356.
- Trundle, George T., Jr., Cleveland, Ohio. Automobile-locks. No. 105,029; June 29; Gaz. vol. 215; p. 1496.
- Trussed Concrete Steel Company, Detroit, Mich. Priming or sizing coat for walls and ceilings. No. 104,551; June 1; Gaz. vol. 215; p. 320.
- Trussed Concrete Steel Company, Detroit, Mich. Protective iron and steel paints. No. 104,552; June 1; Gaz. vol. 215; p. 320.
- Trussed Concrete Steel Company, Detroit, Mich. Liquid-cement wall-coating. No. 105,472; July 27; Gaz. vol. 216; p. 1314.
- Trussed Concrete Steel Company, Detroit, Mich. Cement shingle. No. 107,220; Nov. 16; Gaz. vol. 220; p. 1037.
- Tucker, Frances B., Kansas City, Mo. Foot-relief powders. No. 107,299; Nov. 16; Gaz. vol. 220; p. 1040.
- Tucson Seed Company, Tucson, Ariz. Seeds. No. 103,576; Apr. 6; Gaz. vol. 213; p. 356.
- Tufford, John G., Elyria, Ohio. Resilient shoe-heels. No. 101,991; Jan. 19; Gaz. vol. 210; p. 1062.
- Turner, Halsey Company, New York, N. Y. Cotton duck. No. 104,491; June 1; Gaz. vol. 215; p. 318.
- Turner & Seymour Manufacturing Co., Torrington, Conn. Escutcheon-pins, curtain-rods, and chains of non-precious metal. No. 102,466; Feb. 9; Gaz. vol. 211; p. 637.
- Turner & Seymour Manufacturing Co., The, Torrington, Conn. Certain named hardware and plumbers' supplies. No. 102,851; Feb. 23; Gaz. vol. 211; p. 1260.
- Turner & Seymour Manufacturing Co., The, Torrington, Conn. Certain named hardware and plumbing supplies. No. 102,852; Feb. 23; Gaz. vol. 211; p. 1260.
- Turner & Seymour Manufacturing Co., The, Torrington, Conn. Metal curtain-rods. No. 105,002; June 29; Gaz. vol. 215; p. 1495.
- Turner & Seymour Manufacturing Co., The, Torrington, Conn. Certain named hardware supplies. No. 107,300; Nov. 16; Gaz. vol. 220; p. 1040.
- Twin City Brick Company, St. Paul, Minn. Bricks. No. 107,028; Nov. 9; Gaz. vol. 220; p. 672.
- Twin Oak Poultry and Egg Company, Williamstown, Mass. Dressed and live poultry, eggs, stock, hatching-eggs, and chicks. No. 106,384; Oct. 19; Gaz. vol. 219; p. 923.
- Twombly, Willard L., New York, N. Y. Automobiles, cycle-cars, and motor-cycles. No. 104,355; May 25; Gaz. vol. 214; p. 1315.
- Tyer Rubber Co., Andover, Mass. Rubber automobile-tires, inner tubes, and tubing. No. 102,621; Feb. 16; Gaz. vol. 211; p. 953.
- Tyer Rubber Co., Andover, Mass. Certain named dental, medical, and surgical appliances. No. 107,535; Dec. 7; Gaz. vol. 221; p. 347.
- Tyler, Byron, Kansas City, Mo. Macerated wheat. No. 102,212; Jan. 26; Gaz. vol. 210; p. 1393.
- Tylose Products Company, Boston, Mass. Liquid for preserving and hardening wood, concrete, leather, &c. No. 105,473; July 27; Gaz. vol. 216; p. 1314.
- U-Auto Varnish Co., Cleveland, Ohio. Varnish. Nos. 104,273-9; May 11; Gaz. vol. 214; p. 679.
- U S Gun Oil Co., Houston, Tex. Lubricating-oil. No. 106,059; Sept. 21; Gaz. vol. 218; p. 873.
- U. S. Hame Company, Buffalo, N. Y. Hames. No. 103,453; Apr. 6; Gaz. vol. 213; p. 352.
- U. S. Hame Company, Buffalo, N. Y. Hames and parts thereof. No. 105,914; Aug. 24; Gaz. vol. 217; p. 1337.
- Uberall, Bertha, Philadelphia, Pa. Hair-tonic. No. 101,658; Jan. 5; Gaz. vol. 210; p. 394.
- Ullrich, Jacob, New York, N. Y. Fountain-pens and ink-pencils. No. 103,600; Apr. 6; Gaz. vol. 213; p. 357.
- Umpleby, John T., West Philadelphia, Pa. Chemical gelatinous preparation for removing iron-rust, &c. No. 101,806; Jan. 12; Gaz. vol. 210; p. 711.
- Underwood, George, Jr., Auburn, N. Y. Cotton and linen twines, finished and unfinished, in balls, tubes, &c. No. 105,907; Aug. 24; Gaz. vol. 217; p. 1337.
- Ungemach, A.-G. Els. Conserven-Fabrik & Import-Gesellschaft, Strassburg, Germany. Pastilles. No. 101,807; Jan. 12; Gaz. vol. 210; p. 711.
- Union Bag & Paper Company, New York, N. Y. Paper bags. Nos. 106,703-5; Oct. 26; Gaz. vol. 219; p. 1232.
- Union Carbide Company of Canada, Ltd., Welland, Ontario, Canada. Calcium carbide. Nos. 102,344-5; Feb. 9; Gaz. vol. 211; p. 633.
- Union Lock Stitch Co., Boston, Mass. Boots and shoes of leather, canvas, and rubber. No. 107,801; Dec. 28; Gaz. vol. 221; p. 1447.
- Union Meat Co., Portland, Ore. Digester-tankage. No. 107,112; Nov. 9; Gaz. vol. 220; p. 674.
- Union Meat Co., Portland, Ore. Fertilizer. Nos. 107,400-1; Nov. 23; Gaz. vol. 220; pp. 1369-70.
- Union Mills Inc., St. Johnsville and New York, N. Y. Knitted underwear. No. 103,133; Mar. 16; Gaz. vol. 212; p. 1053.
- Union Mills, Inc., Hudson and New York, N. Y. Knitted underwear. Nos. 103,710-13; Apr. 13; Gaz. vol. 213; p. 741.
- Union Mills, Inc., St. Johnsville and New York, N. Y. Knitted underwear. No. 106,523; Oct. 19; Gaz. vol. 219; p. 927.
- Union Oil Company of California, Los Angeles, Cal. Fuel-oils. No. 103,737; Apr. 13; Gaz. vol. 213; p. 742.
- Union Oil Company of California, San Francisco, Cal. Lubricating-oils. No. 107,787; Dec. 28; Gaz. vol. 221; p. 1447.
- Union Paint & Varnish Co., Providence, R. I. Paints, varnishes, &c. No. 101,808; Jan. 12; Gaz. vol. 210; p. 711.
- Union Salt Company, The, Cleveland, Ohio. Salt. Nos. 104,160-1; May 4; Gaz. vol. 214; p. 340.
- Union Seed & Fertilizer Company, West New York, N. J. Cotton-seed meal. No. 105,768; Aug. 17; Gaz. vol. 217; p. 1050.
- Union Special Machine Company, Chicago, Ill. Sewing-machines and parts thereof. No. 103,738; Apr. 13; Gaz. vol. 213; p. 742.
- Unit-Wall Construction Company, New York, N. Y. Concrete-molding apparatus for casting concrete *in situ*. No. 104,579; June 1; Gaz. vol. 215; p. 321.
- United Distributing Companies, Chicago, Ill. Vacuum-cleaners. No. 104,756; June 15; Gaz. vol. 215; p. 973.
- United Drug Company, Boston, Mass. Certain named brushes. No. 102,213; Jan. 26; Gaz. vol. 210; p. 1393.
- United Drug Company, Boston, Mass. Match-boxes, drinking-cups, vacuum-bottles, and folded paper boxes. No. 102,214; Jan. 26; Gaz. vol. 210; p. 1393.
- United Drug Company, Boston, Mass. Razors, shears, pocket and steel table knives, &c. No. 102,215; Jan. 26; Gaz. vol. 210; p. 1393.
- United Drug Company, Boston, Mass. Perfume, toilet water, sachet-powder, and smelling-salts. No. 102,660; Feb. 16; Gaz. vol. 211; p. 954.
- United Drug Company, Boston, Mass. Stove-polish and straw-hat cleaner. No. 102,932; Mar. 2; Gaz. vol. 212; p. 324.
- United Drug Company, Boston, Mass. Cigar and cigarette holders, pipes, pipe-cleaners, tobacco-boxes, &c. No. 103,602; Apr. 6; Gaz. vol. 213; p. 357.
- United Drug Company, Boston, Mass. Certain named rubber goods. No. 103,603; Apr. 6; Gaz. vol. 213; p. 357.
- United Drug Company, Boston, Mass. Soap. No. 103,980; Apr. 20; Gaz. vol. 213; p. 1115.
- United Drug Company, Boston, Mass. Sealing-wax, library-paste, mucilage, &c. No. 104,356; May 25; Gaz. vol. 214; p. 1315.
- United Drug Company, Boston, Mass. Certain named dental, medical, and surgical supplies and appliances. No. 104,357; May 25; Gaz. vol. 214; p. 1315.
- United Drug Company, Boston, Mass. Writing fluid, carbon-paper, ink pads and ribbons. No. 104,358; May 25; Gaz. vol. 214; p. 1315.
- United Drug Company, Boston, Mass. Certain named games, toys, and sporting goods. No. 104,657; June 8; Gaz. vol. 215; p. 663.
- United Drug Company, Boston, Mass. Twine, cord, and string. No. 104,959; June 29; Gaz. vol. 215; p. 1494.
- United Drug Company, Boston, Mass. Water-filters for household-faucets and candy-show-case refrigerators. No. 105,830; Aug. 17; Gaz. vol. 217; p. 1052.

- United Drug Company, Boston, Mass. Gummed printed labels, adhesive stamps, calendars, &c. No. 106,706; Oct. 26; Gaz. vol. 219; p. 1232.
- United Drug Company, Boston, Mass. Measuring rules and tape, thermometers, and lantern-slides. No. 106,707; Oct. 26; Gaz. vol. 219; p. 1232.
- United Drug Company, Boston, Mass. Perfume. No. 107,029; Nov. 9; Gaz. vol. 220; p. 672.
- United Fuel & Supply Co., Detroit, Mich. Coal. No. 104,343; May 18; Gaz. vol. 214; p. 1022.
- United & Globe Rubber Mfg Companies, Trenton, N. J. Certain named rubber goods. No. 106,268; Oct. 19; Gaz. vol. 219; p. 919.
- United Grocers Company. (See Truax & Company, C. C., assignor.)
- United Indigo and Chemical Company, Limited, Boston, Mass. Boiler-disinfectant and metal-preservative compound. No. 106,915; Nov. 2; Gaz. vol. 220; p. 346.
- United Jewelers Inc., New York, N. Y. Cases or containers for silverware, jewelry, cutlery, &c. No. 102,216; Jan. 26; Gaz. vol. 210; p. 1393.
- United Jewelers Inc., The, New York, N. Y. Apparel-belts. No. 102,950; Mar. 2; Gaz. vol. 212; p. 325.
- United Jewelers Inc., The, New York, N. Y. Writing-paper. No. 107,653; Dec. 14; Gaz. vol. 221; p. 733.
- United Laboratories Company, Chicago, Ill. Certain pharmaceutical preparations for toilet use. No. 101,889; Jan. 12; Gaz. vol. 210; p. 714.
- United Lace & Braid Manufacturing Company, The, Cranston, R. I. Shoe-laces. Nos. 102,470-1; Feb. 9; Gaz. vol. 211; p. 687.
- United Lace & Braid Manufacturing Company, Cranston, R. I. Braids, shoe and corset laces, and galloons. No. 104,820; June 15; Gaz. vol. 215; p. 975.
- United Lead Company, New York, N. Y. Tempering-lead. No. 104,239; May 11; Gaz. vol. 214; p. 678.
- United Lead Company, New York, N. Y. Lead pipe and drain-traps. No. 106,524; Oct. 19; Gaz. vol. 219; p. 927.
- United Neckwear Shops Co., The, Washington, D. C. Neckties. No. 102,346; Feb. 9; Gaz. vol. 211; p. 633.
- United Sealing Machine Company, Springfield, Mass. Envelop-sealing machines. No. 104,185; May 4; Gaz. vol. 214; p. 341.
- United States Brewing Co. of Chicago, Chicago, Ill. Malt liquor. No. 107,567; Dec. 7; Gaz. vol. 221; p. 348.
- United States Distributing Company, New York, N. Y. Chewing-gum. No. 102,821; Feb. 23; Gaz. vol. 211; p. 1259.
- United States Envelope Company, Springfield, Mass. Paper drinking-cups and cartons and cabinets to contain such cups. Nos. 104,401-3; May 25; Gaz. vol. 214; p. 1316.
- United States Graphite Company, The, Saginaw, Mich. Pulverized graphite. No. 105,679; Aug. 10; Gaz. vol. 217; p. 696.
- United States Gutta Percha Paint Company, Saco, Me., and Providence, R. I. Ready-mixed paint. No. 102,217; Jan. 26; Gaz. vol. 210; p. 1393.
- United States Gypsum Company, Chicago, Ill. Gypsum tile. No. 101,890; Jan. 12; Gaz. vol. 210; p. 714.
- United States Leather Company. (See Stockman, Henry, assignor.)
- United States Manufacturing Co., St. Louis, Mo. Churns. No. 105,003; June 29; Gaz. vol. 215; p. 1495.
- United States Rubber Company. (See Colchester Rubber Company, assignor.)
- United States Rubber Company, New York, N. Y., and New Brunswick, N. J. Rubber boots and shoes. No. 102,472; Feb. 9; Gaz. vol. 211; p. 687.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber boots and shoes. No. 102,870; Feb. 23; Gaz. vol. 211; p. 1261.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber-soled boots and shoes with canvas tops. No. 106,708; Oct. 26; Gaz. vol. 219; p. 1232.
- United States Wire Mat Co., Decatur, Ill. Fly-killers. No. 104,136; May 4; Gaz. vol. 214; p. 339.
- United States Wire Mat Company, Decatur, Ill. Fly-killers. No. 104,658; June 8; Gaz. vol. 215; p. 663.
- United Wine & Trading Co., New York, N. Y. Whisky, glu, brandy, and kohn. No. 107,507; Dec. 7; Gaz. vol. 221; p. 346.
- United Woolen Mills Company, The, Parkersburg, W. Va. Coats, vests, trousers, and overcoats. No. 105,242; July 13; Gaz. vol. 216; p. 639.
- United Woolen Mills Company, The, Parkersburg, W. Va. Men's coats and overcoats. No. 107,750; Dec. 28; Gaz. vol. 221; p. 1445.
- United Yeast Company, Limited, The, Manchester, England. Vegetable composition for use in manufacturing, cleansing, and improving the texture of certain named articles. No. 103,014; Mar. 16; Gaz. vol. 212; p. 1049.
- Universal Film Manufacturing Company, New York, N. Y. Moving-picture films. No. 103,077; Mar. 16; Gaz. vol. 212; p. 1051.
- Universal Film Manufacturing Company, Chicago, Ill. Motion-picture films. No. 104,821; June 15; Gaz. vol. 215; p. 975.
- Universal Film Manufacturing Company, Chicago, Ill. Motion-picture films. No. 105,030; June 29; Gaz. vol. 215; p. 1496.
- Universal Motor Truck Company, Detroit, Mich. Motor vehicles, trucks, running-gears, chassis, and bodies. No. 104,365; May 25; Gaz. vol. 214; p. 1315.
- Universal Optical Corporation, Providence, R. I. Certain named measuring and scientific appliances. No. 107,221; Nov. 16; Gaz. vol. 220; p. 1039.
- Universal Tea Co., The, Hartford, Conn. Blended coffee. No. 103,922; Apr. 20; Gaz. vol. 213; p. 1113.
- Unruh Schuyler C., Benton Harbor, Mich. Remedy for rheumatism. No. 104,492; June 1; Gaz. vol. 215; p. 318.
- Unsinger Razor Blade Company, The, Fremont, Ohio. Razor-blades, safety-razors and parts thereof, and twine-cutters. No. 105,680; Aug. 10; Gaz. vol. 217; p. 696.
- Uvalde Rock Asphalt Co., Beaumont, Tex. Sheet-pavement, paving and building blocks. No. 102,316; Feb. 2; Gaz. vol. 211; p. 281.
- V. A. Longaker Company, The, Indianapolis, Ind. Piston-rings. No. 106,640; Oct. 26; Gaz. vol. 219; p. 1230.
- Vacumit-Gesellschaft m. b. H., Vienna, Austria-Hungary. Fillings for tires. No. 102,700; Feb. 23; Gaz. vol. 211; p. 1256.
- Vacuna Sales Co., New York, N. Y. Machine for polishing, waxing, scrubbing, &c., floors, and parts thereof. No. 103,251; Mar. 23; Gaz. vol. 212; p. 1354.
- Vacuum Oil Company, Rochester, N. Y. Illuminating-oils. No. 101,992; Jan. 19; Gaz. vol. 210; p. 1062.
- Vail Brothers, Philadelphia, Pa. Shampoo preparation. No. 106,525; Oct. 19; Gaz. vol. 219; p. 927.
- Vale, Milton L., Courtenay, N. D. Toilet powder. No. 107,113; Nov. 9; Gaz. vol. 220; p. 674.
- Valentine & Company, New York, N. Y. Primers, fillers, surfacers, and paints, paste and ready mixed. No. 104,812; June 15; Gaz. vol. 215; p. 974.
- Valenzuela, Michael R., San Diego, Cal. Catarrh-snuff. No. 106,269; Oct. 19; Gaz. vol. 219; p. 919.
- Valier & Spies Milling Co., St. Louis, Mo. Wheat-flour. No. 102,592; Feb. 16; Gaz. vol. 211; p. 952.
- Valley Shoe Co., Elizabethtown, Pa. Infants' and children's leather shoes. No. 106,021; Sept. 14; Gaz. vol. 218; p. 600.
- Van Alstine, Andrew W., Welland, Ontario, Canada, and Buffalo, N. Y. Antiseptic ointment. No. 102,219; Jan. 26; Gaz. vol. 210; p. 1393.
- Van Antwerp's Drug Corporation, Mobile, Ala. Insecticide, germicide, antiseptic, and disinfectant. No. 106,709; Oct. 26; Gaz. vol. 219; p. 1232.
- Van Antwerp's Drug Corporation, Inc., Mobile, Ala. Antiseptic and disinfectant preparations. No. 107,798; Dec. 28; Gaz. vol. 221; p. 1447.
- Van Arkel, Garret, Muskegon Heights, Mich. Medicinal tablets for colds, la grippe, headache, and constipation. No. 102,822; Feb. 23; Gaz. vol. 211; p. 1259.
- Van Camp Packing Co., The, Indianapolis, Ind. Certain named foods. No. 102,988; Mar. 9; Gaz. vol. 212; p. 686.
- Van Hee, Hunter, and Parsons Company, Inc., New York, N. Y. Cotton fabrics for making bags. No. 103,923; Apr. 20; Gaz. vol. 213; p. 1113.
- Van Heusen, John M., Boston, Mass. Rubber heels. No. 105,831; Aug. 17; Gaz. vol. 217; p. 1052.
- Van Kannel Revolving Door Company, New York, N. Y. Revolving doors. No. 104,078; Apr. 27; Gaz. vol. 213; p. 1443.
- Van Orden, Chauncey S., New York, N. Y. Tooth-paste. No. 106,270; Oct. 19; Gaz. vol. 219; p. 919.
- Vanden Berg, John, Mahwah, N. J. Honey. No. 107,236; Nov. 16; Gaz. vol. 220; p. 1038.
- Vanderveer, Jean J., Brattleboro, Vt. Boxes. No. 107,751; Dec. 28; Gaz. vol. 221; p. 1445.
- Vandewart & Son, D., New York, N. Y. Liqueur stomach-bitters. No. 106,815; Oct. 26; Gaz. vol. 219; p. 1235.
- Vanity Fair Publishing Company, The, Inc., New York, N. Y. Garment-patterns. No. 105,281; July 13; Gaz. vol. 216; p. 660.
- Varga, John, Linden, N. J. Preparation for the treatment of tuberculosis. No. 101,809; Jan. 12; Gaz. vol. 210; p. 711.
- Vassar Cap Co., Chicago, Ill. Hats and caps. No. 104,757; June 15; Gaz. vol. 215; p. 973.
- Vaughan, George C., Salem, Mass. Sole-leather. No. 102,218; Jan. 26; Gaz. vol. 210; p. 1393.
- Vaughan, George C., Salem, Mass. Sole-leather. No. 103,739; Apr. 13; Gaz. vol. 213; p. 742.
- Vaughan Paint Company, Cleveland, Ohio. Certain named paint and painters' materials. No. 103,577; Apr. 6; Gaz. vol. 213; p. 356.
- Vecto Chemical Co. Inc. (See Law, Russell, assignor.)
- Vel-o Manufacturing Co., Elizabeth City, N. C. Toilet lotion for the skin. No. 107,700; Dec. 21; Gaz. vol. 221; p. 1035.
- Veneer Manufacturing Co., Warwood, W. Va. Liquid cleaning, dusting, and polishing compound. No. 103,454; Apr. 6; Gaz. vol. 213; p. 352.
- Veno, Mary, Bowden, England. Ointment for human use. No. 107,402; Nov. 23; Gaz. vol. 220; p. 1370.

Alphabetical list of registrants of trade-marks—Continued.

- Ventilouvre Co., New York, N. Y. Transoms, doors, windows, and panels. No. 104,079; Apr. 27; Gaz. vol. 213; p. 1443.
- Verder Brothers, Hollis, N. H. Popcorn. No. 104,175; May 4; Gaz. vol. 214; p. 340.
- Vermilax Company, Incorporated, New York, N. Y. Remedies for diseases of dogs. No. 106,271; Oct. 19; Gaz. vol. 219; p. 919.
- Vick Chemical Co., The, Greensboro, N. C. Salve. No. 103,601; Apr. 6; Gaz. vol. 213; p. 357.
- Vickery, Albert L., Salisbury, Md. Non-alcoholic beverage or cereal substitute for coffee. No. 107,114; Nov. 9; Gaz. vol. 220; p. 675.
- Victor Electric Company, Chicago, Ill. Certain named medical and surgical appliances. No. 104,403; May 25; Gaz. vol. 214; p. 1317.
- Victor Electric Company, Chicago, Ill. Certain named electrical apparatus and supplies. No. 105,091; July 6; Gaz. vol. 216; p. 322.
- Victor Electric Company, Chicago, Ill. Devices for applying electricity to the body. No. 107,403; Nov. 23; Gaz. vol. 220; p. 1370.
- Victor Manufacturing and Gasket Co., Chicago, Ill. Cut gaskets of metal and metal and asbestos. No. 104,240; May 11; Gaz. vol. 214; p. 678.
- Victor Manufacturing Company, Greenville, S. C. Cotton piece goods. No. 105,329; July 20; Gaz. vol. 216; p. 1007.
- Victor Storage Battery Co., Rock Island, Ill. Storage batteries. No. 106,917; Nov. 2; Gaz. vol. 220; p. 346.
- Victoria Marble Company, The, Knoxville, Tenn. Raw and partly-prepared marble. No. 106,526; Oct. 19; Gaz. vol. 219; p. 927.
- Vincent Sorrentino, Inc., Providence, R. I. Certain named articles of precious metal. No. 104,063; Apr. 27; Gaz. vol. 213; p. 1443.
- Vinnedge Coffee Co., Fort Worth, Tex. Teas, coffees, mustard, salad-dressing, and flavoring extracts. No. 107,589; Dec. 14; Gaz. vol. 221; p. 731.
- Vinton & Son, L. A., Moline, Ill. Post-hole diggers and repair parts therefor. No. 104,922; June 22; Gaz. vol. 215; p. 1260.
- Viridone, Antonino, New York, N. Y. Medicinal tonic and digestive powder. No. 106,190; Oct. 12; Gaz. vol. 219; p. 584.
- Virginia Alfalfa Corporation, Richmond, Va. Alfalfa for feeding purposes. No. 104,521; June 1; Gaz. vol. 215; p. 319.
- Virginia Iron & Metal Company, Incorporated, Richmond, Va. Babbitt metals. Nos. 103,740-1; Apr. 13; Gaz. vol. 213; p. 742.
- Vita Oil Company, Berkeley, Cal. Medicinal oil for the treatment of certain named affections. No. 101,891; Jan. 12; Gaz. vol. 210; p. 714.
- Vitagraph Company of America, New York, N. Y. Motion-picture photo-plays and motion-pictures other than photo-plays. No. 105,623; Aug. 10; Gaz. vol. 217; p. 694.
- Vitaslide Company, The, San Francisco, Cal. Lantern-slides. No. 102,220; Jan. 26; Gaz. vol. 210; p. 1393.
- Vittucci Importing Co., Seattle, Wash. Certain named foods. No. 102,823; Feb. 23; Gaz. vol. 211; p. 1259.
- Vocalstyle Music Company, The, Cincinnati, Ohio. Perforated music-records. No. 107,654; Dec. 14; Gaz. vol. 221; p. 733.
- Vogue Company, The, New York, N. Y. Patterns. No. 102,701; Feb. 23; Gaz. vol. 211; p. 1256.
- Vogue Company, The, New York, N. Y. Patterns. No. 103,770; Apr. 13; Gaz. vol. 213; p. 743.
- Vogue Dress Co., Inc., New York, N. Y. Children's, juniors', and misses' dresses. No. 106,918; Nov. 2; Gaz. vol. 220; p. 346.
- Voigt Brewery Co., Detroit, Mich. Lager-beer. No. 106,022; Sept. 14; Gaz. vol. 218; p. 600.
- Vola Importing Company, New York, N. Y. Red and white Chianti. No. 104,895; June 22; Gaz. vol. 215; p. 1259.
- Vola Importing Company, New York, N. Y. Macaroni, olive-oil, cheese, &c. No. 106,527; Oct. 19; Gaz. vol. 219; p. 927.
- Von Schlick, Henry H., Pittsburgh, Pa. Blood liquid medicine. No. 107,404; Nov. 23; Gaz. vol. 220; p. 1370.
- Voorbees, Joseph P., New York, N. Y. Hosiery. Nos. 106,067-70; Sept. 28; Gaz. vol. 218; p. 1153.
- Vortex Mfg. Co., The, Chicago, Ill. Paper drinking-cups for use at soda-water fountains. No. 103,303; Mar. 30; Gaz. vol. 212; p. 1684.
- Voss & Stern, New York, N. Y. Certain named piece goods. No. 106,710; Oct. 26; Gaz. vol. 219; p. 1232.
- W. Beckers Aniline & Chemical Works, Inc., Brooklyn, N. Y. Dyestuffs, colors, lakes, developers, and dyeing-assistants. No. 106,204; Oct. 19; Gaz. vol. 219; p. 917.
- W. B. Manufacturing Co., The, Providence, R. I. Corduroy trousers. No. 101,686; Jan. 5; Gaz. vol. 210; p. 395.
- W. C. Meadows Mills Company, North Wilkesboro, N. C. Grinding-mills and parts thereof. No. 105,270; July 13; Gaz. vol. 216; p. 660.
- W. E. Whann Company, Philadelphia, Pa. Fertilizer. No. 104,661; June 8; Gaz. vol. 215; p. 663.
- W. F. Assau Canning Company, Baltimore, Md. Canned fruits, vegetables, and pork and beans. No. 103,990; Apr. 27; Gaz. vol. 213; p. 1441.
- W. F. McLaughlin & Company, Chicago, Ill. Blended coffee. No. 107,081; Nov. 9; Gaz. vol. 220; p. 674.
- W. F. McLaughlin & Company, Chicago, Ill. Blended coffee. No. 107,623; Dec. 14; Gaz. vol. 221; p. 732.
- W. F. Priebe Co., Chicago, Ill. Poultry and eggs. No. 107,195; Nov. 16; Gaz. vol. 220; p. 1037.
- W. G. Browne Mfg. Co., The, Kingston, N. Y. Ice picks and chisels, kitchen spatulas and knives, &c. No. 101,730; Jan. 12; Gaz. vol. 210; p. 709.
- W. G. & E. G. Murphy Co., Inc., New York, N. Y. Blend whisky. Nos. 104,149-50; May 4; Gaz. vol. 214; p. 340.
- W. H. Comstock Company Limited, The, Morristown, N. Y. Purgative pills. No. 106,220; Oct. 19; Gaz. vol. 219; p. 918.
- W. H. McElwain Company, Boston, Mass. Fiber-board counters for boots and shoes. No. 101,963; Jan. 19; Gaz. vol. 210; p. 1061.
- W. H. Metzger Manufacturing Company, Quincy, Ill. Pharmaceutical preparation for destroying vermin, &c. No. 104,772; June 15; Gaz. vol. 215; p. 973.
- W. J. Bush & Co., Incorporated, New York, N. Y. Flavoring extracts for food. No. 101,911; Jan. 19; Gaz. vol. 210; p. 1059.
- W. J. Hoar Shoe Manufacturing Co., Portland, Me. Leather boots and shoes. No. 105,062; July 6; Gaz. vol. 216; p. 321.
- W & K Company, The, Nasonville and Providence, R. I. Woolen and worsted piece goods. Nos. 103,631-2; Apr. 6; Gaz. vol. 213; p. 358.
- W. L. Douglas Shoe Co., Portland, Me.; Boston and Brockton, Mass.; New York and Buffalo, N. Y.; Denver, Colo., and Philadelphia, Pa. Leather boots and shoes. No. 102,833; Feb. 23; Gaz. vol. 211; p. 1260.
- W. L. Hand Specialty Co., Inc., New York, N. Y. Certain named foods. No. 107,846; Dec. 28; Gaz. vol. 221; p. 1448.
- W. N. Matthews & Bro., Inc., St. Louis, Mo. Electrical testing and inspecting instruments. No. 106,650; Oct. 26; Gaz. vol. 219; p. 1230.
- W. P. Fuller & Co., San Francisco, Cal. Varnishes. Nos. 104,323-4; May 18; Gaz. vol. 214; p. 1022.
- W. R. Grace & Co., New York, N. Y. Lard substitute. No. 104,509; June 1; Gaz. vol. 215; p. 319.
- W. R. Grace & Co., New York, N. Y. Linseed-oil. No. 106,096; Oct. 12; Gaz. vol. 219; p. 581.
- W. R. Grace & Co., New York, N. Y. Paraffin-wax. No. 106,597; Oct. 26; Gaz. vol. 219; p. 1228.
- W. R. Grace & Co., New York, N. Y. Flour. No. 107,574; Dec. 14; Gaz. vol. 221; p. 731.
- W. S. Nott Company, Minneapolis, Minn. Rubber roofing. No. 102,580; Feb. 16; Gaz. vol. 211; p. 951.
- W. S. Tyler Company, The, Cleveland, Ohio. Wire fabric for screening. Nos. 102,467-9; Feb. 9; Gaz. vol. 211; p. 637.
- W. S. Tyler Company, The, Cleveland, Ohio. Testing-sieve shakers. No. 105,404; July 20; Gaz. vol. 216; p. 1010.
- W. V. Bowater & Sons Ltd., London, England. Waste printed papers for remanufacture. No. 104,298; May 18; Gaz. vol. 214; p. 1021.
- W. W. Chill Kill Co., Douglas, Ga. Preparation for chills and fever. No. 104,904; June 22; Gaz. vol. 215; p. 1259.
- W. W. Ford Tobacco Works, Nashville, Tenn. Smoking and chewing tobacco. No. 103,160; Mar. 16; Gaz. vol. 212; p. 1054.
- W. W. Harper Company, The, Zanesville, Ohio. Catsup, spices, rolled oats, canned beef, &c. No. 102,794; Feb. 23; Gaz. vol. 211; p. 1258.
- Wabash Sani-Tray Co., Wabash, Ind. High chairs for babies. No. 104,493; June 1; Gaz. vol. 215; p. 318.
- Wabasha Roller Mills Company, The, Wabasha, Minn. Wheat-flour. No. 103,402; Mar. 30; Gaz. vol. 212; p. 1687.
- Wacker & Birk Brewing Co., Chicago, Ill. Beer. No. 103,771; Apr. 13; Gaz. vol. 213; p. 743.
- Wade, J. Milton, Oklahoma, Okla. Cure of the tobacco habit. No. 101,810; Jan. 12; Gaz. vol. 210; p. 711.
- Wadsworth Chocolate Co., Newark, N. J. Chocolates. No. 103,833; Apr. 13; Gaz. vol. 213; p. 745.
- Wadsworth Chocolate Co., Newark, N. J. Chocolates. No. 103,867; Apr. 20; Gaz. vol. 213; p. 1111.
- Wadsworth Chocolate Co., Newark, N. J. Chocolates. No. 106,711; Oct. 26; Gaz. vol. 219; p. 1232.
- Wadsworth, Howland & Co., Incorporated, Boston, Mass. Protective paint, particularly for heated surfaces. No. 102,824; Feb. 23; Gaz. vol. 211; p. 1259.
- Wadsworth J. Zittel Company, Buffalo, N. Y. Candy. No. 107,409; Nov. 23; Gaz. vol. 220; p. 1370.
- Wagner, Edward H., New York, N. Y. Fireworks. No. 104,494; June 1; Gaz. vol. 215; p. 318.
- Wagner Piano Company, New York, N. Y. Pianos. No. 106,191; Oct. 12; Gaz. vol. 219; p. 584.
- Wakefield, Lee H., Seattle, Wash. Canned salmon. Nos. 107,115-22; Nov. 9; Gaz. vol. 220; p. 675.
- Wald, Walker & Co., New York, N. Y. Coats, trousers, shirts, and underwear. No. 102,473; Feb. 9; Gaz. vol. 211; p. 637.

- Waldeck, Jacob C. C., St. Louis, Mo. Bacons. No. 107,123; Nov. 9; Gaz. vol. 220; p. 675.
- Waldeck, Jacob C. C., St. Louis, Mo. Hams. No. 107,124; Nov. 9; Gaz. vol. 220; p. 675.
- Waldeck, Jacob C. C., St. Louis, Mo. Bacons. Nos. 107,125-7; Nov. 9; Gaz. vol. 220; p. 675.
- Waldes & Co., Prague-Wrschowitz, Austria-Hungary. Snap-buttons. No. 101,687; Jan. 5; Gaz. vol. 210; p. 395.
- Waldes & Co., Prague-Wrschowitz, Austria-Hungary. Snap-fasteners. No. 104,241; May 11; Gaz. vol. 214; p. 678.
- Waldes & Co., Prague-Wrschowitz, Austria-Hungary. Snap-buttons. No. 106,023; Sept. 14; Gaz. vol. 218; p. 600.
- Waldes & Co., Prague-Wrschowitz, Bohemia, Austria-Hungary. Snap-buttons used as garment-fasteners. No. 106,712; Oct. 26; Gaz. vol. 219; p. 1232.
- Waldes & Company, Prague-Wrschowitz, Austria-Hungary. Certain named clothing. Nos. 106,528-30; Oct. 19; Gaz. vol. 219; p. 927.
- Walker-Moore Manufacturing Co., Racine, Wis. Centering and shock-absorbing device for steering mechanism. No. 107,030; Nov. 9; Gaz. vol. 220; p. 672.
- Walker & Tracy, Canandaigua, N. Y. Crackers. No. 104,690; June 8; Gaz. vol. 215; p. 664.
- Walker & Tracy, Canandaigua, N. Y. Crackers. No. 104,853; June 22; Gaz. vol. 215; p. 1258.
- Wallace & Co., Brooklyn and New York, N. Y. Chocolates and candies. No. 103,015; Mar. 16; Gaz. vol. 212; p. 1049.
- Wallace, John H., Gloversville, N. Y. Slipper-soles. No. 102,774; Feb. 23; Gaz. vol. 211; p. 1258.
- Wallace, Joseph, New York, N. Y. Fountain-pens. No. 103,134; Mar. 16; Gaz. vol. 212; p. 1053.
- Wallace Novelty Company, New York, N. Y. Electric-lamp-supporting stands or supports. No. 105,474; July 27; Gaz. vol. 216; p. 1314.
- Wallach Brothers, New York, N. Y. Men's and boys' hats and caps. No. 102,317; Feb. 2; Gaz. vol. 211; p. 281.
- Walman-Benson Optical Co., The, Minneapolis, Minn. Spectacle-frames and eyeglass-mountings. No. 103,078; Mar. 16; Gaz. vol. 212; p. 1051.
- Walsh, Edward H., New York, N. Y. Type-writer ribbons. No. 102,702; Feb. 23; Gaz. vol. 211; p. 1256.
- Walsh, Edward H., New York, N. Y. Carbon-paper. No. 103,456; Apr. 6; Gaz. vol. 213; p. 352.
- Walsh, James J., Buffalo, N. Y. Carbon-remover. No. 104,242; May 11; Gaz. vol. 214; p. 678.
- Walter Baker & Company, Limited, Boston, Mass. Chocolate. No. 102,996; Mar. 16; Gaz. vol. 212; p. 1049.
- Walter Brewing Co., Pueblo, Colo. Beer. No. 104,896; June 22; Gaz. vol. 215; p. 1259.
- Walter M. Lowney Company, The, Boston, Mass. Candy. No. 107,357; Nov. 23; Gaz. vol. 220; p. 1368.
- Walter M. Steppacher & Bro., Inc., Philadelphia, Pa. Dress and negligée shirts. No. 107,296; Nov. 16; Gaz. vol. 220; p. 1040.
- Waltner, Elizabeth, Duquesne, Pa. Preparation for poor circulation of the hands and feet, paralysis, &c. No. 106,713; Oct. 26; Gaz. vol. 219; p. 1232.
- Walworth Manufacturing Co., Boston, Mass. Wrenches. No. 103,135; Mar. 16; Gaz. vol. 212; p. 1053.
- Wapler, Nicholas, New York, N. Y. Glass aquaria. No. 106,714; Oct. 26; Gaz. vol. 219; p. 1232.
- Ward Baking Company, New York, N. Y. Cakes. Nos. 102,221-6; Jan. 26; Gaz. vol. 210; p. 1393.
- Ward Baking Company, New York, N. Y. Cakes. No. 103,742; Apr. 13; Gaz. vol. 213; p. 742.
- Ward Baking Company, New York, N. Y. Bread, rolls, biscuits, &c. No. 104,162; May 4; Gaz. vol. 214; p. 340.
- Ward Baking Company, New York, N. Y. Bread. No. 104,163; May 4; Gaz. vol. 214; p. 340.
- Ward Baking Company, New York, N. Y. Bread, loaf-cake, and salt-rising bread. No. 107,655; Dec. 14; Gaz. vol. 221; p. 733.
- Ward Baking Company, New York, N. Y. Loaf-cake and nut-bread. No. 107,656; Dec. 14; Gaz. vol. 221; p. 733.
- Ward Bros. Co., Inc., Buffalo, N. Y. Bread. No. 103,714; Apr. 13; Gaz. vol. 213; p. 741.
- Ward Bros. Co., Inc., Buffalo, N. Y. Bread. Nos. 105,625-6; Aug. 10; Gaz. vol. 217; p. 694.
- Ward, Meehan Company, Philadelphia, Pa. Toweling, bath and wash mats, and washcloths. No. 104,405; May 25; Gaz. vol. 214; p. 1317.
- Ward Meehan Company, Philadelphia, Pa. Bath-garments. No. 106,531; Oct. 19; Gaz. vol. 219; p. 927.
- Wareheim & Bro., T. E., Baltimore, Md. Butter. No. 102,227; Jan. 26; Gaz. vol. 210; p. 1393.
- Warner, Bert L., St. Louis, Mo. Carbonated non-alcoholic beverages and syrups for making same. No. 101,993; Jan. 19; Gaz. vol. 210; p. 1062.
- Warner Brothers Company, The, Bridgeport, Conn. Hose-supporters. No. 103,834; Apr. 13; Gaz. vol. 213; p. 745.
- Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 107,031; Nov. 9; Gaz. vol. 220; p. 672.
- Warrell, Alexander, Worcester, Mass. Lubricants. No. 101,659; Jan. 5; Gaz. vol. 210; p. 394.
- Warrell, Alexander, Worcester, Mass. Lubricants. Nos. 104,186-7; May 4; Gaz. vol. 214; p. 341.
- Warren Brothers Company, Boston, Mass. Certain named construction material. No. 102,663; Feb. 16; Gaz. vol. 211; p. 954.
- Warren, Charles H., Philadelphia, Pa. Remedy for piles. No. 106,272; Oct. 19; Gaz. vol. 219; p. 919.
- Warren Chemical & Manufacturing Company, New York, N. Y. Bituminous cement and waterproofing compositions. No. 101,811; Jan. 12; Gaz. vol. 210; p. 711.
- Warren Chemical & Manufacturing Company, New York, N. Y. Membrane waterproofing and roofing felts, &c. No. 101,812; Jan. 12; Gaz. vol. 210; p. 711.
- Warren Chemical & Manufacturing Company, New York, N. Y. Ready roofing. No. 101,813; Jan. 12; Gaz. vol. 210; p. 711.
- Warren-Ehret Company, Philadelphia, Pa. Roof-covering. No. 105,452; July 27; Gaz. vol. 216; p. 1313.
- Warren-Ehret Company, Philadelphia, Pa. Ready roofing, roofing felt and cement. No. 106,273; Oct. 19; Gaz. vol. 219; p. 919.
- Warren Featherbone Company, Three Oaks, Mich. Collar-supports. No. 101,994; Jan. 19; Gaz. vol. 210; p. 1062.
- Warren Featherbone Company, Three Oaks, Mich. Collar-supports. No. 102,228; Jan. 26; Gaz. vol. 210; p. 1393.
- Warren, I. J., Springfield, Mass. Wheat-flour. No. 103,868; Apr. 20; Gaz. vol. 213; p. 1111.
- Warren, Northam, New York, N. Y. Certain named pharmaceutical preparations for toilet purposes. No. 102,474; Feb. 9; Gaz. vol. 211; p. 637.
- Warszawsky & Sons, S., Newark, N. J. Certain named foods. No. 102,593; Feb. 16; Gaz. vol. 211; p. 952.
- Washburn-Crosby Co., Minneapolis, Minn. Wheat-flour. No. 102,229; Jan. 26; Gaz. vol. 210; p. 1393.
- Washburn-Crosby Co., Minneapolis, Minn. Wheat-flour. No. 102,475; Feb. 9; Gaz. vol. 211; p. 637.
- Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. No. 101,995; Jan. 19; Gaz. vol. 210; p. 1062.
- Washburn Crosby Company, Minneapolis, Minn. Wheat-flour. No. 106,919; Nov. 2; Gaz. vol. 220; p. 346.
- Washington Drug Products Co., Inc., New York, N. Y. Poultice. No. 104,406; May 25; Gaz. vol. 214; p. 1317.
- Washington Shoe Manufacturing Co., Seattle, Wash. Leather shoes. No. 102,989; Mar. 9; Gaz. vol. 212; p. 686.
- Wasmuth-Endicott Company, Andrews, Ind. Kitchen-cabinets. No. 103,403; Mar. 30; Gaz. vol. 212; p. 1687.
- Waters, David F., Cortland, N. Y. Compound preparation for the treatment of diarrhea and cholera in domestic animals. No. 104,429; May 25; Gaz. vol. 214; p. 1317.
- Waterson-Berlin & Snyder Company, New York, N. Y. Sheet-music. No. 105,627; Aug. 10; Gaz. vol. 217; p. 694.
- Waterson, Henry, New York, N. Y. Talking-machine records. No. 103,718; Apr. 13; Gaz. vol. 213; p. 741.
- Watkins, Philip M., San Francisco, Cal. Flavoring extracts. No. 105,146; July 6; Gaz. vol. 216; p. 324.
- Watson, E. J., Fort Plain, N. Y. Dough for pies, timbales, and tarts. No. 107,123; Nov. 9; Gaz. vol. 220; p. 675.
- Watson Mfg. Co., Jamestown, N. Y. Certain named sheet-metal office furnishings. No. 102,230; Jan. 26; Gaz. vol. 210; p. 1393.
- Watson Shoe Co., Lynn, Mass. Shoes. No. 106,532; Oct. 19; Gaz. vol. 219; p. 927.
- Waukesha Health Products Co., Waukesha, Wis. Processed flour, bread, and breakfast food for treatment of diabetes, and olive-oil. No. 103,772; Apr. 13; Gaz. vol. 213; p. 743.
- Waukesha Roxo Company, Milwaukee, Wis. Mineral water and ginger-ale. No. 102,853; Feb. 23; Gaz. vol. 211; p. 1260.
- Wayne County Radium Ores Company, Salt Lake City, Utah. Certain named surgical goods and treatment-cabinets. No. 102,664; Feb. 16; Gaz. vol. 211; p. 954.
- Weatherhead Drug Company, The, Cincinnati, Ohio. Antiseptic compound for local applications and as a gargle. No. 102,318; Feb. 2; Gaz. vol. 211; p. 281.
- Wechsler-Barber Silk Co., Paterson, N. J. Silk piece goods. Nos. 104,854-5; June 22; Gaz. vol. 215; p. 1258.
- Wedgefuth, Louis C., Yonkers, N. Y. Preparations of liquid and hard soap. No. 103,925; Apr. 20; Gaz. vol. 213; p. 1113.
- Wedgefuth, Louis C., Yonkers, N. Y. Preparations of sulfur in soluble form. No. 103,926; Apr. 20; Gaz. vol. 213; p. 1113.
- Wedgefuth, Louis C., Yonkers, N. Y. Preparation of iodine for internal treatment in venereal diseases. No. 107,719; Dec. 21; Gaz. vol. 221; p. 1036.
- Weed, Henry B., Williamsport, Pa. Carbonated non-alcoholic beverage and syrup for making same. No. 105,475; July 27; Gaz. vol. 216; p. 1314.
- Weeden Manufacturing Co., New Bedford, Mass. Steam, electric, and mechanical toys and parts thereof. No. 104,960; June 29; Gaz. vol. 215; p. 1494.
- Weeks, Carl, Des Moines, Iowa. Injection treatment for gonorrhea. No. 107,222; Nov. 16; Gaz. vol. 220; p. 1037.
- Wegelin & Schweizer, New York, N. Y. Cotton piece goods. No. 104,495; June 1; Gaz. vol. 215; p. 318.
- Wegener's Sons, A., Detroit, Mich. Natural and distilled water and non-alcoholic carbonated beverages. No. 105,405; July 20; Gaz. vol. 216; p. 1010.

Alphabetical list of registrants of trade-marks—Continued.

- Weidlich Sterling Spoon Co., Bridgeport, Conn. Flat sterling-silver ware. No. 103,304; Mar. 30; Gaz. vol. 212; p. 1684.
- Weil Corset Co., The, New Haven, Conn. Abdominal belts. No. 104,500; June 1; Gaz. vol. 215; p. 319.
- Weinberg Brothers and Company, Chicago, Ill. Dressed poultry. No. 106,816; Oct. 26; Gaz. vol. 219; p. 1235.
- Weinberg, Ralph R., Philadelphia, Pa. Quercitron for healing sores and bruises on horses. No. 102,476; Feb. 9; Gaz. vol. 211; p. 637.
- Weingarten Bros. Inc., New York, N. Y. Corset-lacings. No. 103,835; Apr. 13; Gaz. vol. 213; p. 745.
- Weiss & Biheller, Limited, London, England. Hollow tableware of glass. No. 107,301; Nov. 16; Gaz. vol. 220; p. 1040.
- Welch Grape Juice Co., The, Westfield, N. Y. Grape-juice. No. 107,484; Dec. 7; Gaz. vol. 221; p. 345.
- Weld & Company, Inc., Auburn, N. Y. Certain named medicines and pharmaceutical preparations. No. 106,817; Oct. 26; Gaz. vol. 219; p. 1235.
- Wells Medicine Company, La Fayette, Ind. Veterinary remedies for certain named diseases. No. 106,274; Oct. 19; Gaz. vol. 219; p. 919.
- Weisbach Company, Gloucester City, N. J. Incandescent gas-lamps and mantles. No. 105,882; Aug. 24; Gaz. vol. 217; p. 1336.
- Werden & Co., Washington, D. C. Fresh, salted, and roasted peanuts. No. 106,715; Oct. 26; Gaz. vol. 219; p. 1232.
- Wertheimer Bros., Baltimore, Md. Cigars. No. 104,659; June 8; Gaz. vol. 215; p. 663.
- West Disinfecting Company, New York, N. Y. Specific for removal of organic matter in plumbing. No. 102,477; Feb. 9; Gaz. vol. 211; p. 637.
- West Disinfecting Company, New York, N. Y. Paper towels or paper used as towels. No. 102,665; Feb. 16; Gaz. vol. 211; p. 954.
- West Disinfecting Company, New York, N. Y. Disinfectants and insecticides. No. 104,407; May 25; Gaz. vol. 214; p. 1317.
- West Disinfecting Company, New York, N. Y. Disinfectants and insecticides. No. 105,384; July 20; Gaz. vol. 216; p. 1009.
- West Jersey Paper Manufacturing Company, The, Camden, N. J. Paper-board. Nos. 107,872-3; Dec. 28; Gaz. vol. 221; p. 1449.
- West, Julius A., Washington, D. C. Sweaters. No. 105,628; Aug. 10; Gaz. vol. 217; p. 694.
- West, William B., Philadelphia, Pa. Pocketing-cloth. No. 107,458; Nov. 30; Gaz. vol. 220; p. 1715.
- Wester, Gustav A., Chicago, Ill. Remedy for goiter. No. 102,478; Feb. 9; Gaz. vol. 211; p. 637.
- Western Clock Co., Peru, Ill. Monthly periodical publications. No. 102,319; Feb. 2; Gaz. vol. 211; p. 281.
- Western Clock Co., Peru, Ill. Clocks and watches. No. 102,951; Mar. 2; Gaz. vol. 212; p. 325.
- Western Clock Co., Peru, Ill. Clocks and watches. No. 103,457; Apr. 6; Gaz. vol. 213; p. 352.
- Western Clock Co., Peru, Ill. Clocks and watches. Nos. 103,927-9; Apr. 20; Gaz. vol. 213; p. 1113.
- Western Clock Co., Peru, Ill. Clocks and watches. No. 106,385; Oct. 19; Gaz. vol. 219; p. 923.
- Western Clock Co., Peru, Ill. Clocks and watches. No. 107,459; Nov. 30; Gaz. vol. 220; p. 1715.
- Western Coffee Co., The, El Paso, Tex. Roasted coffee. No. 103,693; Apr. 6; Gaz. vol. 213; p. 358.
- Western Elaterite Roofing Company, The, Denver, Colo. Paints. No. 103,136; Mar. 16; Gaz. vol. 212; p. 1053.
- Western Electric Company, Chicago, Ill., and New York, N. Y. Certain named electrical apparatus and supplies. No. 102,479; Feb. 9; Gaz. vol. 211; p. 637.
- Western Felt Works, Chicago, Ill. Pads for horses. No. 102,551; Feb. 9; Gaz. vol. 211; p. 639.
- Western Hat & Manufacturing Company, Milwaukee, Wis. Hats, caps, gloves, mittens, and sweater-coats. No. 103,252; Mar. 23; Gaz. vol. 212; p. 1354.
- Western Pipe & Steel Company of California, San Francisco, Cal. Riveted water-pipes, well-casing, and pipe-fittings. No. 102,666; Feb. 16; Gaz. vol. 211; p. 954.
- Western Shade Cloth Company, The, Chicago, Ill. Window-shades. No. 102,320; Feb. 2; Gaz. vol. 211; p. 281.
- Western Union Mfg. Co., Kansas City, Mo. Overalls and jumpers. No. 102,231; Jan. 26; Gaz. vol. 210; p. 1393.
- Western Utilities Company, Milwaukee, Wis. Certain named electrical supplies. No. 107,460; Nov. 30; Gaz. vol. 220; p. 1715.
- Westf. Gasglühlichtfabrik F. W. & Dr. C. Killing, Hagen-Delstern, Germany. Certain named lighting apparatus and fixtures and supplies. No. 102,232; Jan. 26; Gaz. vol. 210; p. 1393.
- Westheimer & Sons, Ferdinand, St. Joseph, Mo., and Cincinnati, Ohio. Whisky, gin, rum, brandy, and cordial. No. 105,476; July 27; Gaz. vol. 216; p. 1314.
- Westheimer & Sons, Ferdinand, St. Joseph, Mo., and Cincinnati, Ohio. Certain named non-alcoholic beverages. No. 105,803; Aug. 17; Gaz. vol. 217; p. 1051.
- Westheimer & Sons, Ferdinand, St. Joseph, Mo., and Cincinnati, Ohio. Cigars, little cigars, cigarettes, tobacco, and snuff. No. 106,716; Oct. 26; Gaz. vol. 219; p. 1232.
- Westinghouse Air Brake Company, The, Wilmerding, Pa. Air-brake apparatus and railway draft-gear. No. 106,386; Oct. 19; Gaz. vol. 219; p. 923.
- Westinghouse Air Spring Company, The, Pittsburgh, Pa. Air-springs or pneumatic suspension for vehicles. No. 107,410; Nov. 23; Gaz. vol. 220; p. 1370.
- Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa. Mineral oil for insulating and cooling purposes. No. 103,016; Mar. 16; Gaz. vol. 212; p. 1049.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fixtures for electric lights. No. 105,519; Aug. 3; Gaz. vol. 217; p. 335.
- Westinghouse Lamp Company, Bloomfield, N. J. Incandescent lamps. No. 103,017; Mar. 16; Gaz. vol. 212; p. 1049.
- Westmoreland Candy Company, Inc., Richmond, Va., and New York, N. Y. Candy. No. 103,982; Apr. 20; Gaz. vol. 213; p. 1115.
- Westmoreland Chemical and Color Company, Philadelphia, Pa. Ferric sulfate. Nos. 102,990-1; Mar. 9; Gaz. vol. 212; p. 686.
- Wettengel & Son, W., Omaha, Nebr. Carriages, carts, and delivery-wagons. No. 105,883; Aug. 24; Gaz. vol. 217; p. 1336.
- Wetterer Brewing Company, The, Cincinnati, Ohio. Beer. No. 105,569; Aug. 3; Gaz. vol. 217; p. 337.
- Wetzel, Peter A., Chicago, Ill. File-cabinets and music-cases. No. 103,137; Mar. 16; Gaz. vol. 212; p. 1053.
- Wetzler, John H., Milwaukee, Wis. Cigars. No. 104,660; June 8; Gaz. vol. 215; p. 663.
- Whaley Mill & Elevator Co., Gainesville, Tex. Wheat-flour. No. 104,080; Apr. 27; Gaz. vol. 213; p. 1443.
- Whaley Mill & Elevator Co., Gainesville, Tex. Wheat-flour. No. 105,031; June 29; Gaz. vol. 215; p. 1496.
- Whaley Mill & Elevator Co., Gainesville, Tex. Wheat-flour. No. 107,590; Dec. 14; Gaz. vol. 221; p. 731.
- Wheeler & Motter Mercantile Company, St. Joseph, Mo. Bleached and unbleached muslins. No. 101,996; Jan. 19; Gaz. vol. 210; p. 1062.
- Wheeler & Motter Mercantile Company, St. Joseph, Mo. Men's and boys' socks. No. 105,682; Aug. 10; Gaz. vol. 217; p. 696.
- Wheeler & Motter Mercantile Company, St. Joseph, Mo. Hose. No. 105,769; Aug. 17; Gaz. vol. 217; p. 1050.
- Wheeling Corrugating Company, Wheeling, W. Va. Certain named structural and decorative elements of construction. No. 105,884; Aug. 24; Gaz. vol. 217; p. 1336.
- Wheeling Wall Plaster Co., Wheeling, W. Va. Prepared wall-plaster. No. 105,704; Aug. 10; Gaz. vol. 217; p. 697.
- Whetzel, Billups & Pickrell, Colfax, Wash. Compound for treatment of dandruff and eczema and for a hair-tonic. No. 104,496; June 1; Gaz. vol. 215; p. 318.
- Whitaker & Kincaid, Gail, Tex. Preparation for treatment of old sores, carbuncles, and cancers. No. 106,717; Oct. 26; Gaz. vol. 219; p. 1232.
- Whitcomb, Lemley P., Oshkosh, Wis. Baby jumpers or exercisers. No. 102,233; Jan. 26; Gaz. vol. 210; p. 1393.
- White, Charles, Baltimore, Md. Piston-rings for gas and other engines. No. 107,767; Dec. 28; Gaz. vol. 221; p. 1446.
- White, Crowder, Newport News, Va. Remedies for certain named ailments and diseases. No. 107,436; Nov. 23; Gaz. vol. 220; p. 1371.
- White, Joel C., Norfolk, Va. Remedy for piles, corns, bunions, &c. No. 103,138; Mar. 16; Gaz. vol. 212; p. 1053.
- White, Louis M., New Orleans, La. Cigars. No. 102,347; Feb. 9; Gaz. vol. 211; p. 633.
- White, Malcolm R., Detroit, Mich. Cathartic. No. 104,897; June 22; Gaz. vol. 215; p. 1259.
- White-Stokes Company, Chicago, Ill. Certain named foods. No. 103,836; Apr. 13; Gaz. vol. 213; p. 745.
- White, William S., Beaumont, Cal. Fresh fruits. No. 103,578; Apr. 6; Gaz. vol. 213; p. 356.
- Whiting Paper Company, Holyoke, Mass. Ledger and writing paper. No. 103,305; Mar. 30; Gaz. vol. 212; p. 1684.
- Whiting-Plover Paper Co., Stevens Point, Wis. Printing and writing paper. No. 103,306; Mar. 30; Gaz. vol. 212; p. 1684.
- Whitman Agricultural Company, St. Louis, Mo. Certain named machinery. No. 103,708; Apr. 13; Gaz. vol. 213; p. 741.
- Whitney Blake Company, The, New Haven, Conn. Insulated wire and cables. No. 106,128; Oct. 12; Gaz. vol. 219; p. 582.
- Whitney-Eckstein Seed Company, Buffalo, N. Y. Grass-seed. No. 103,983; Apr. 20; Gaz. vol. 213; p. 1115.
- Whittall, M. J., Worcester, Mass. Textile rugs and carpets. Nos. 103,458-9; Apr. 6; Gaz. vol. 213; p. 352.
- Whittmore Bros. & Co., Cambridge, Mass. Leather-dressing for shoes and slippers. No. 106,387; Oct. 19; Gaz. vol. 219; p. 923.
- Wichert & Gardiner, New York, N. Y. Leather shoes. No. 106,719; Oct. 26; Gaz. vol. 219; p. 1232.
- Wichita Falls Motor Co., Wichita Falls, Tex. Commercial motor-vehicles. No. 106,192; Oct. 12; Gaz. vol. 219; p. 584.

- Wicomb Dentifrice Co., The, New Orleans, La. Dentifrice. No. 105,570; Aug. 3; Gaz. vol. 217; p. 337.
- Widlar Co., The, Cleveland, Ohio. Mustard relish. No. 103,773; Apr. 13; Gaz. vol. 213; p. 743.
- Widlar, Walter L., Cleveland, Ohio. Automobile-jacks. No. 105,282; July 13; Gaz. vol. 216; p. 660.
- Widmann, Albert V., Newark, N. J. Remedies for certain named ailments and diseases. No. 104,111; Gaz. vol. 213; p. 1444.
- Wigdor, Isaac, Bayonne, N. J. Clock-dials. No. 107,405; Nov. 23; Gaz. vol. 220; p. 1370.
- Wight Company, Lamoni, Iowa. Poultry remedies. No. 104,898; June 22; Gaz. vol. 215; p. 1259.
- Wilcox, Horace, Wakefield, R. I. Shaving-cream and toilet soap. No. 101,688; Jan. 5; Gaz. vol. 210; p. 395.
- Wilcox & White Company, Meriden, Conn. Mechanical music-playing instruments and music-rolls therefor. No. 104,786; June 15; Gaz. vol. 215; p. 973.
- Wile & Co., M., Buffalo, N. Y. Men's, youths', boys', and children's cloth suits and overcoats. No. 107,032; Nov. 9; Gaz. vol. 220; p. 672.
- Wile, Sons & Co., Julius, New York, N. Y. Port-wine. No. 107,506; Dec. 7; Gaz. vol. 221; p. 346.
- Wiley, Charles F., Elwood, Ind. Kitchen cabinets, tables, safes, and chairs. No. 107,406; Nov. 23; Gaz. vol. 220; p. 1370.
- Wiley Dandruff Remover Company, The, Toledo, Ohio. Shampoo, hair-tonic, dandruff-remover, &c. No. 105,004; June 29; Gaz. vol. 215; p. 1495.
- Wilk & Company, J. W., Chicago, Ill. Canned salmon. No. 101,660; Jan. 5; Gaz. vol. 210; p. 394.
- Wilkie, Alexander, Edinburgh, Scotland. Ladies' coats and costumes. No. 104,243; May 11; Gaz. vol. 214; p. 678.
- Wilkinson, Heywood & Clark, Limited, Cubitt Town, London, England. Varnish, enamels, distempers, and paints. No. 102,234; Jan. 26; Gaz. vol. 210; p. 1394.
- Willapa Harbor Fish Co., South Bend, Wash. Canned salmon. Nos. 102,480-1; Feb. 9; Gaz. vol. 211; p. 637.
- Willard Storage Battery Company, The, Cleveland, Ohio. Storage batteries. No. 106,275; Oct. 19; Gaz. vol. 219; p. 919.
- William B. Anderson Foundry Company, Chicago, Ill. Certain named metal castings and alloys of same. No. 101,727; Jan. 12; Gaz. vol. 210; p. 709.
- William Carter Company, The, Needham Heights, Mass. Knitted underwear, hosiery, and caps. No. 107,314; Nov. 23; Gaz. vol. 220; p. 1367.
- William Davies Company, Limited, The, Toronto, Ontario, Canada. Casings for sausages. No. 106,571; Oct. 26; Gaz. vol. 219; p. 1228.
- William Demuth & Company, New York, N. Y. Tobacco-pipes, cigarette and cigar holders. No. 102,328; Feb. 9; Gaz. vol. 211; p. 633.
- William J. Lemp Brewing Company, St. Louis, Mo. Non-intoxicating beverages prepared partly from malt. No. 106,346; Oct. 19; Gaz. vol. 219; p. 921.
- William Lea & Sons Company, The, Wilmington, Del. Cornmeal. No. 104,390; May 25; Gaz. vol. 214; p. 1316.
- William Mann Company, Philadelphia, Pa. Certain named stationers' supplies. Nos. 106,645-6; Oct. 26; Gaz. vol. 219; p. 1230.
- William Mann Company, Philadelphia, Pa. Certain named paper and stationery. No. 106,986; Nov. 9; Gaz. vol. 220; p. 671.
- William R. Jenkins Co., New York, N. Y. Certain named stationers' supplies. No. 106,336; Oct. 19; Gaz. vol. 219; p. 921.
- William Schotten Coffee Co., St. Louis, Mo. Roasted coffee. No. 104,845; June 22; Gaz. vol. 215; p. 1257.
- William Schotten Coffee Co., St. Louis, Mo. Roasted coffee. No. 107,016; Nov. 9; Gaz. vol. 220; p. 672.
- William Schotten Coffee Company, St. Louis, Mo. Monthly publication. No. 101,754; Jan. 12; Gaz. vol. 210; p. 710.
- William Schotten Coffee Company, St. Louis, Mo., assignor to Western Grocer Company, Marshalltown, Iowa, a Corporation of Iowa. Tea. No. 104,784; June 15; Gaz. vol. 215; p. 973.
- William W. Lee & Co., Watervliet and Troy, N. Y. Croup remedy. No. 101,953; Jan. 19; Gaz. vol. 210; p. 1061.
- William Whitman Company, Inc., Boston, Mass. Cotton, worsted, and merino yarn. No. 106,718; Oct. 26; Gaz. vol. 219; p. 1232.
- Williams Articulator Company, Chicago, Ill. Dry batteries. No. 107,033; Nov. 9; Gaz. vol. 220; p. 672.
- Williams & Co., R. C., New York, N. Y. Canned beef-stew. No. 107,407; Nov. 23; Gaz. vol. 220; p. 1370.
- Williams Company, Gurnsey B., Syracuse, N. Y. Shirts, drawers, union suits, gloves and hose. No. 104,553; June 1; Gaz. vol. 215; p. 320.
- Williams, Harry S., Springfield, Ohio. Article for cleansing, polishing, and scouring. No. 104,498; June 1; Gaz. vol. 215; p. 319.
- Willis & Co., Grinnell, New York, N. Y. Cotton piece goods. No. 103,099; Mar. 16; Gaz. vol. 212; p. 1052.
- Willis & Co., Grinnell, New York, N. Y. Cotton piece goods. No. 103,163; Mar. 16; Gaz. vol. 212; p. 1054.
- Willis & Co., Grinnell, New York, N. Y. Cotton piece goods. No. 105,093; July 6; Gaz. vol. 216; p. 322.
- Willis & Company, Grinnell, New York, N. Y. Cotton piece goods. No. 101,847; Jan. 12; Gaz. vol. 210; p. 712.
- Willis & Company, Grinnell, New York, N. Y. Cotton piece goods. No. 107,063; Nov. 9; Gaz. vol. 220; p. 673.
- Willison, Ella L. K., Chicago, Ill. Certain pharmaceutical preparations for toilet use. No. 104,164; May 4; Gaz. vol. 214; p. 340.
- Wilson & Bradbury, Philadelphia, Pa. Bleached cotton sheetings, shirtings, muslins, &c. No. 101,997; Jan. 19; Gaz. vol. 210; p. 1062.
- Wilson, George J., Rochester, N. Y. Graham, entire-wheat, and table bran flour. No. 107,408; Nov. 23; Gaz. vol. 220; p. 1370.
- Wilson, George J., Rochester, N. Y. Graham, entire-wheat, and table bran flour. No. 107,874; Dec. 28; Gaz. vol. 221; p. 1449.
- Win-ner Stock Remedies Co., Kenton, Ohio. Certain pharmaceutical preparation and preparations for treating certain diseases of live stock and poultry. No. 103,579; Apr. 6; Gaz. vol. 213; p. 356.
- Windsor Chocolate Company, Philadelphia, Pa. Candy. No. 106,534; Oct. 19; Gaz. vol. 219; p. 927.
- Windsor Stock Food Company, The, Windsor, Conn. Prepared food for fowls. No. 105,477; July 27; Gaz. vol. 216; p. 1314.
- Windsor Stock Food Company, The, Windsor, Conn. Prepared food for horses, cattle, sheep, &c. No. 106,533; Oct. 19; Gaz. vol. 219; p. 927.
- Winget Manufacturing Co., Inc., The, Minneapolis, Minn. Sun-bats, sun and baby bonnets, dust and mackinaw caps. No. 105,571; Aug. 3; Gaz. vol. 217; p. 337.
- Winget Manufacturing Co., Inc., The, Minneapolis, Minn. Sunbonnets, sun-bats, baby-bonnets, &c. No. 106,818; Oct. 26; Gaz. vol. 219; p. 1235.
- Winona Candy Co., Winona, Minn. Candy and salted peanuts. No. 102,825; Feb. 23; Gaz. vol. 211; p. 1259.
- Winsted Silk Company, The, Winsted, Conn. Floss, embroidery-floss, yarn, and thread of all kinds. No. 101,998; Jan. 19; Gaz. vol. 210; p. 1062.
- Winterbottom Book Cloth Company, Limited, Manchester, England. Tracing-cloth. No. 104,081; Apr. 27; Gaz. vol. 213; p. 1443.
- Winterbottom Book Cloth Company, Limited, The, Manchester, England. Tracing-cloth. No. 106,535; Oct. 19; Gaz. vol. 219; p. 927.
- Wintersmith Chemical Co., Louisville, Ky. Saline laxatives and liver-salts. No. 107,131; Nov. 9; Gaz. vol. 220; p. 675.
- Wintersmith, Horace, Elizabethtown, Ky. Remedy for syphilis, gonorrhea, gleet, &c. No. 103,930; Apr. 20; Gaz. vol. 213; p. 1113.
- Winwal Company, The, Rockford, Ill. Buttons. No. 106,819; Oct. 26; Gaz. vol. 219; p. 1235.
- Wirt Company, Portland Me., and Philadelphia, Pa. Regulable electric-lighting apparatus, dimmers for electric-light fixtures. No. 104,554; June 1; Gaz. vol. 215; p. 320.
- Wisconsin Condensed Milk Company, New York, N. Y. Condensed milk. No. 107,132; Nov. 9; Gaz. vol. 220; p. 675.
- Wittenberger, Louise M., Union Hill, N. J. Mosquito-repelling lotion. No. 107,673; Dec. 14; Gaz. vol. 221; p. 734.
- Wittwer & Bro., Edw., Monticello, Wis. Cheese. No. 102,236; Jan. 26; Gaz. vol. 210; p. 1394.
- Wittwer, John J., Sr., Seattle, Wash. Hair-cleanser. No. 104,430; May 25; Gaz. vol. 214; p. 1317.
- Wizard Products Co., Chicago, Ill. Ironing-wax and fire-extinguishing compound. No. 106,722; Oct. 26; Gaz. vol. 219; p. 1232.
- Wizard Products Co., Chicago, Ill. Furniture-polish. No. 106,820; Oct. 26; Gaz. vol. 219; p. 1235.
- Wizard Products Co., Chicago, Ill. Polish-mops, dustless dust-cloths, &c. No. 107,568; Dec. 7; Gaz. vol. 221; p. 348.
- Wm. A. Coombs Milling Company, Coldwater, Mich. Self-rising wheat-flour. No. 105,107; July 6; Gaz. vol. 216; p. 323.
- Wm. A. Coombs Milling Company, Coldwater, Mich. Wheat-flour. No. 105,108; July 6; Gaz. vol. 216; p. 323.
- Wm. A. Coombs Milling Company, Coldwater, Mich. Wheat-flour. No. 105,188; July 13; Gaz. vol. 216; p. 657.
- Wm. Alten Co., Inc., New York, N. Y. Wheat-flour. No. 103,687; Apr. 13; Gaz. vol. 213; p. 740.
- Wm. Bros Boiler & Manufacturing Co., Minneapolis, Minn. Boilers, feed-water heaters, smoke-stacks, &c. No. 105,148; July 6; Gaz. vol. 216; p. 324.
- Wm. Edge & Sons, Limited, Bolton, England. Dyes. No. 107,057; Nov. 9; Gaz. vol. 220; p. 673.
- Wm. Focke's Sons Company, The, Dayton, Ohio. Ham, bacon, and lard. No. 104,052; Apr. 27; Gaz. vol. 213; p. 1443.
- Wm. Frankfurth Hardware Co., Milwaukee, Wis. Fishing-tackle. No. 106,592; Oct. 26; Gaz. vol. 219; p. 1228.
- Wm. Herme & Co. Inc., Brooklyn, N. Y. Leather shoes. No. 106,604; Oct. 26; Gaz. vol. 219; p. 1229.
- Wm. Nunsen & Sons, Inc., Baltimore, Md. Preserves. No. 107,187; Nov. 16; Gaz. vol. 220; p. 1036.

Alphabetical list of registrants of trade-marks—Continued.

- Wm. Pollock Milling & Elevator Co., Mexico, Mo. Chick feed. No. 107,194; Nov. 16; Gaz. vol. 220; p. 1037.
- Wm. Powell Co., The, Cincinnati, Ohio. Metallic valves for general use. No. 106,179; Oct. 12; Gaz. vol. 219; p. 583.
- Wm. S. Hills Company, Boston, Mass. Wheat-flour. No. 104,327; May 18; Gaz. vol. 214; p. 1022.
- Wm. Simpson, Sons & Co., Philadelphia, Pa. Cotton dress goods in the piece and cotton linings. No. 101,880; Jan. 12; Gaz. vol. 210; p. 713.
- Wm. Walthe & Co., St. Louis, Mo. Soap. No. 105,624; Aug. 10; Gaz. vol. 217; p. 694.
- Wm. Wrigley Jr. Company, Chicago, Ill. Chewing-gum. Nos. 102,009-3; Jan. 19; Gaz. vol. 210; p. 1062.
- Wm. Wrigley, Jr. Company, Chicago, Ill. Chewing-gum. No. 105,032; June 29; Gaz. vol. 215; p. 1496.
- Wm. Wrigley Jr. Company, Chicago, Ill. Chewing-gum. No. 105,285; July 13; Gaz. vol. 216; p. 660.
- Wojtalewicz, John S., Chicago, Ill. Men's trousers. No. 106,720; Oct. 26; Gaz. vol. 219; p. 1232.
- Wolf & Co., Louis, New York, N. Y. Dolls. No. 103,366; Mar. 30; Gaz. vol. 212; p. 1685.
- Wolf, Leon L., Cincinnati, Ohio. Chemical compound for fireproofing materials. No. 107,223; Nov. 16; Gaz. vol. 220; p. 1037.
- Wolfe, Henderson M., New York, N. Y., assignor to Polo Club Cigarette Co., Inc. Cigarettes. No. 103,984; Apr. 20; Gaz. vol. 213; p. 1115.
- Wolfe, Jacob M., Lathrop, Cal. Rodent-traps. No. 103,273; Mar. 23; Gaz. vol. 212; p. 1355.
- Wolff, Ferdinand, Paris, France. Motion-picture films. No. 105,243; July 13; Gaz. vol. 216; p. 659.
- Wolkow & Sons, F., Louisville, Ky. Articles of coliffure, toilet-combs, and hair-curlers other than electric. No. 107,302; Nov. 16; Gaz. vol. 220; p. 1040.
- Wolsey Tool and Motor Car Company, Limited, The, now by change of name Wolsey Motors, Limited, Birmingham, England. Automobiles. No. 106,276; Oct. 19; Gaz. vol. 219; p. 919.
- Wonder Mist Co., The, Boston, Mass. Liquid preparation for cleansing and polishing furniture, &c. No. 107,768; Dec. 28; Gaz. vol. 221; p. 1446.
- Wood & Barnard, Detroit, Mich. Cleansing and massage creams, rouge, &c. No. 106,389; Oct. 19; Gaz. vol. 219; p. 923.
- Wood-Beazley Seed Co., Springfield, Mo. Alfalfa, clover, timothy, &c. No. 104,408; May 25; Gaz. vol. 214; p. 1317.
- Wood-Beazley Seed Co., Springfield, Mo. Seeds. No. 104,662; June 8; Gaz. vol. 215; p. 663.
- Wood, Clarence W., Syracuse, N. Y. Mirror-glass for shaving and toilet purposes. No. 104,280; May 11; Gaz. vol. 214; p. 679.
- Wood-Dunnells Co., Haverhill, Mass. Non-alcoholic carbonated beverages. No. 101,815; Jan. 12; Gaz. vol. 210; p. 711.
- Wood, Otis F., New York, N. Y. Smoking-tobacco, cigars, and cigarettes. No. 103,985; Apr. 20; Gaz. vol. 213; p. 1115.
- Wood & Son, Alexander, Peterhead, Scotland. Pickled herrings in barrels. No. 104,580; June 1; Gaz. vol. 215; p. 321.
- Wood-Wilson Co., The, New York, N. Y. Certain named articles of clothing. No. 103,192; Mar. 16; Gaz. vol. 212; p. 1055.
- Woodard, Clarke & Co., Portland, Ore. Optical lenses for spectacles and eyeglasses. No. 106,060; Sept. 21; Gaz. vol. 218; p. 873.
- Woodbridge Chemical Co. Inc., Woodbridge, N. J., and New York, N. Y. Preparation for preventing the puncture of automobile-tires. No. 104,822; June 15; Gaz. vol. 215; p. 975.
- Woodley, Edward L., Shamrock, Tex. Brazilian and Paraguay teas. No. 106,024; Sept. 14; Gaz. vol. 218; p. 600.
- Woods, Homer A., Indianapolis, Ind. Electric lanterns and lamps. No. 102,775; Feb. 23; Gaz. vol. 211; p. 1258.
- Woods Mobilette Company, Phoenix, Ariz., and Chicago, Ill. Automobiles. No. 102,727; Feb. 23; Gaz. vol. 211; p. 1257.
- Woodward, Wight & Company, Limited, New Orleans, La. Babbitt metal. No. 107,769; Dec. 28; Gaz. vol. 221; p. 1446.
- Wool Products Co. Inc., Watertown, N. Y. Woolen piece goods. No. 107,133; Nov. 9; Gaz. vol. 220; p. 675.
- Woodridge, J. L., Richmond, Va. Rheumatism, neuralgia, sprains, &c. No. 101,661; Jan. 5; Gaz. vol. 210; p. 394.
- Woolf & Shulhof, New York, N. Y. Ladies' dresses and dancing-dresses. No. 103,931; Apr. 20; Gaz. vol. 213; p. 1113.
- Woolson Spice Company, The, Toledo, Ohio. Tea. No. 104,683; June 8; Gaz. vol. 215; p. 664.
- Woolson Spice Company, Toledo, Ohio. Tea. No. 104,823; June 15; Gaz. vol. 215; p. 975.
- Woolson Spice Company, The, Toledo, Ohio. Coffee. No. 105,283; July 13; Gaz. vol. 216; p. 660.
- Woolson Spice Company, The, Toledo, Ohio. Coffee. Nos. 105,629-30; Aug. 10; Gaz. vol. 217; p. 694.
- Worrell Mfg. Co., The, St. Louis, Mo. Insecticides and disinfectants. No. 105,683; Aug. 10; Gaz. vol. 217; p. 696.
- Worthington Ball Company, The, Elyria, Ohio. Golf-balls. Nos. 101,662-6; Jan. 5; Gaz. vol. 210; p. 394.
- Worthington Ball Company, The, Elyria, Ohio. Golf-balls. Nos. 102,826-7; Feb. 23; Gaz. vol. 211; p. 1259.
- Worthington Ball Company, The, Elyria, Ohio. Golf-balls. No. 105,005; June 29; Gaz. vol. 215; p. 1495.
- Worthington Ball Company, The, Elyria, Ohio. Golf-balls. No. 107,035; Nov. 9; Gaz. vol. 220; p. 672.
- Worthington, William F., San Francisco, Cal. Preparations for treatment of pyorrhea. No. 107,224; Nov. 16; Gaz. vol. 220; p. 1037.
- Worumbo Manufacturing Company, Lisbon Falls, Me. Woolen fabrics in the piece. No. 107,674; Dec. 14; Gaz. vol. 221; p. 734.
- Wright, Joe E., Junction City, Ky. Jacks, jennets, mules, saddle-bred stallions and mares, Shetland ponies. No. 101,999; Jan. 19; Gaz. vol. 210; p. 1062.
- Wright, William E., Chicago, Ill. Writing and printing paper. No. 103,019; Mar. 16; Gaz. vol. 212; p. 1049.
- Wrigley's Limited, London, England. Chewing-gum. No. 105,284; July 13; Gaz. vol. 216; p. 660.
- Wulf, John H., Louisville, Ky. Remedy for infants' and children's ailments. No. 102,622; Feb. 16; Gaz. vol. 211; p. 953.
- Wullschlegel & Co., New York, N. Y. Silk chiffon. No. 105,707; Aug. 10; Gaz. vol. 217; p. 697.
- Wyatt Coal Company, Charleston, Kanawha county, W. Va., and Cincinnati, Ohio. Block, mine-run, egg, nut, and slack coal. No. 107,810; Dec. 28; Gaz. vol. 221; p. 1447.
- Wyatt Metal Works, Dallas, Tex. Galvanized metal. No. 101,892; Jan. 12; Gaz. vol. 210; p. 714.
- Wyckoff & Lloyd Company, Springfield, Mass. Rubber and fibrous packings and rubber hose. No. 107,036; Nov. 9; Gaz. vol. 220; p. 672.
- Yakima Fruit Products Co., Inc., North Yakima, Wash. Vinegar. No. 102,952; Mar. 2; Gaz. vol. 212; p. 325.
- Yanco, Luis R., Manila, Philippine Islands. Wheat-flour. No. 101,689; Jan. 5; Gaz. vol. 210; p. 395.
- Yanco, Luis R., Manila, Philippine Islands. Canned fruits and vegetables, spices, tea, &c. No. 101,690; Jan. 5; Gaz. vol. 210; p. 395.
- Yanco, Luis R., Manila, Philippine Islands. Wheat-flour. No. 101,691; Jan. 5; Gaz. vol. 210; p. 395.
- Yanco, Luis R., Manila, Philippine Islands. Canned fruits and vegetables, spices, coffee, &c. No. 101,692; Jan. 5; Gaz. vol. 210; p. 395.
- Yanco, Luis R., Manila, Philippine Islands. Dried fruits and vegetables. No. 101,723; Jan. 5; Gaz. vol. 210; p. 396.
- Yawman & Erbe Mfg. Co., Rochester, N. Y. Filing-cabinets, sectional furniture, &c. No. 104,899; June 22; Gaz. vol. 215; p. 1259.
- Yawman & Erbe Mfg. Co., Rochester, N. Y. Certain named paper and stationery. No. 107,037; Nov. 9; Gaz. vol. 220; p. 672.
- Yenny, Louise M., New York, N. Y. Hair-tonic. No. 102,004; Jan. 19; Gaz. vol. 210; p. 1062.
- Yesterlaid Egg Farms Company, Pacific, Mo. Eggs. No. 104,065; Apr. 27; Gaz. vol. 213; p. 1443.
- York, Frank C., Salina, Kans. Composition for use in preparing a soft drink. No. 106,130; Oct. 12; Gaz. vol. 219; p. 582.
- York Manufacturing Co., Saco, Me. Cotton piece goods. No. 105,330; July 20; Gaz. vol. 216; p. 1007.
- York Manufacturing Co., Saco, Me. Cotton piece goods. No. 107,770; Dec. 28; Gaz. vol. 221; p. 1446.
- York Manufacturing Company, Saco, Me. Cotton piece goods. Nos. 104,010-11; Apr. 27; Gaz. vol. 213; p. 1441.
- York Manufacturing Company, York, Pa. Rubber packing. No. 106,920; Nov. 2; Gaz. vol. 220; p. 346.
- Yorkshire Steel Co. Ltd., London, England. Razors and safety-razors and safety-razor blades. No. 106,277; Oct. 19; Gaz. vol. 219; p. 919.
- Yorkshire Worsted Mills, Lenni Mills, Pa., and New York, N. Y. Woolen worsted goods in the piece. No. 101,816; Jan. 12; Gaz. vol. 210; p. 711.
- Young Brothers, Providence, R. I. Boxes. No. 102,237; Jan. 26; Gaz. vol. 210; p. 1394.
- Young-Hartsell Mills Company, Concord, N. C. Damask used exclusively for table-linen, &c. No. 107,303; Nov. 16; Gaz. vol. 220; p. 1040.
- Young, Hugo H., Loudonville, Ohio. Side cars, delivery-vans, and other motor-cycle carriers. No. 105,708; Aug. 10; Gaz. vol. 217; p. 697.
- Young, Smyth, Field Company, Philadelphia, Pa. Monthly house organs. No. 104,344; May 18; Gaz. vol. 214; p. 1023.
- Young & Vann Supply Co., The, Birmingham, Ala. Bearing metals and alloys. No. 102,323; Feb. 2; Gaz. vol. 211; p. 281.
- Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel sheets, wire, and iron and steel bars and rods. No. 105,244; July 13; Gaz. vol. 216; p. 659.

Alphabetical list of registrants of trade-marks—Continued.

Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Certain named hardware and plumbing and steam-fitting supplies. No. 107,461; Nov. 30; Gaz. vol. 220; p. 1715.

Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel wire nails. No. 107,462; Nov. 30; Gaz. vol. 220; p. 1715.

Yozo Co., Chattanooga, Tenn. Soap and shaving-soap. No. 101,817; Jan. 12; Gaz. vol. 210; p. 711.

Yunker, Fred, Toledo, Ohio. Horse-radish and mixture of horse-radish and mustard. No. 102,238; Jan. 26; Gaz. vol. 210; p. 1394.

Zabriskie, George A., New York, N. Y. Wheat-flour. No. 103,460; Apr. 6; Gaz. vol. 213; p. 352.

Zechnowitz, Samuel, New York, N. Y. Tea, coffee, and cocoa. No. 103,986; Apr. 20; Gaz. vol. 213; p. 1115.

Zechnowitz, Samuel, New York, N. Y. Tea. No. 103,987; Apr. 20; Gaz. vol. 213; p. 1115.

Zeiss, Firm of Carl, Jena, Germany. Certain named measuring and scientific appliances and parts thereof. Nos. 106,131-2; Oct. 12; Gaz. vol. 219; p. 582.

Zinol Chemical Co., Minneapolis, Minn. Mouth-wash. No. 107,225; Nov. 16; Gaz. vol. 220; p. 1037.

Zorro Tobacco Co., Inc., The, New York, N. Y. Smoking-tobacco. No. 107,304; Nov. 16; Gaz. vol. 220; p. 1040.

Zoz Chemical Company, The, Cincinnati, Ohio. Pharmaceutical preparations for certain named uses. No. 105,006; June 29; Gaz. vol. 215; p. 1495.

Zweifel, Harry, Mercer, Pa. Silk undershirts. No. 105,572; Aug. 3; Gaz. vol. 217; p. 337.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- A. Harden Co., New York, N. Y. "The New Tipperary Handkerchief." (For Handkerchiefs.) No. 18,693; Aug. 24; Gaz. vol. 217; p. 1339.
- A. Schoenhut Company, The, Philadelphia, Pa. "Big Game Hunter." (For Toys.) No. 18,351; Apr. 6; Gaz. vol. 213; p. 359.
- A. B. C. Candy Co., The, Sherman, Tex. "Hopson's Mexican Style Pecan Candy." (For Candy.) No. 18,803; Oct. 19; Gaz. vol. 219; p. 928.
- A. L. Reed Co., New York, N. Y. "The Traveller." (For Stationery in Tablet Form.) No. 18,710; Aug. 24; Gaz. vol. 217; p. 1339.
- A. P. Babcock Co., New York, N. Y. "Babcock's." (For Talcum Powder.) No. 18,516; June 15; Gaz. vol. 215; p. 976.
- A. P. Babcock Co., New York, N. Y. "Violet Elice." (For Talc.) No. 18,877; Nov. 30; Gaz. vol. 220; p. 1717.
- Abbott, O. B., Battle Creek, Mich. "El-Burto." (For Cigar-Boxes.) No. 18,723; Sept. 7; Gaz. vol. 218; p. 319.
- Acampo Fruit Growers' Association, Acampo, Cal. "Owl Brand." (For Crates Containing Grapes.) No. 18,844; Nov. 9; Gaz. vol. 220; p. 676.
- Acme Preserve Co., The, Adrian, Mich. "Matchless." (For Condensed Tomatoes.) No. 18,908; Dec. 21; Gaz. vol. 221; p. 1037.
- Adam Scheidt Brewing Co., Norristown, Pa. "Valley Forge Special Beer." (For Beer.) No. 18,163; Jan. 12; Gaz. vol. 210; p. 715.
- Adler, Herman S. Y., Port Chester, N. Y. "Coverall." (For an Automobile Work-Garment.) No. 18,845; Nov. 9; Gaz. vol. 220; p. 676.
- Adler, Louis, New York, N. Y. "Bryn Mawr Lady's Shirt." (For Shirt-Waists.) No. 18,932; Dec. 28; Gaz. vol. 221; p. 1451.
- Advance Grease & Chemical Co., Jackson, Mich. "Mr. Slippery." (For Lubricating Oils and Greases.) No. 18,164; Jan. 12; Gaz. vol. 210; p. 715.
- Aickelin & Co., H. A., Pittsburgh, Pa. "Aickelin Salad Dressing." (For a Salad-Dressing.) No. 18,358; Apr. 13; Gaz. vol. 213; p. 747.
- Ainsworth, Homer A., Salisbury, Mo. "Ainsworth Dis-temper and Barn Fever Cure." (For a Remedy for Dis-temper and Barn-Fever.) No. 18,578; July 6; Gaz. vol. 216; p. 326.
- Albano, Francesco, New York, N. Y. "Teresa de Rosa." (For Alimentary Pastes.) No. 18,285; Mar. 9; Gaz. vol. 212; p. 687.
- Albano, Francesco, New York, N. Y. "Ferrandina." (For Olive-Oil.) No. 18,515; June 15; Gaz. vol. 215; p. 976.
- Albano, Francesco, New York, N. Y. "Teresa de Rosa." (For Alimentary Pastes.) No. 18,544; June 22; Gaz. vol. 215; p. 1261.
- Albany Pharmaceutical Company, The, Inc., Albany, N. Y. "Ruba-Lax." (For a Medicinal Preparation.) No. 18,392; Apr. 27; Gaz. vol. 213; p. 1445.
- Albert White Liniment Co., Inc., The, Mars Hill, Me. "White's Liniment." (For Liniment.) No. 18,963; Dec. 28; Gaz. vol. 221; p. 1451.
- Albers, Harry, St. Louis, Mo. "Golden Egg." (For Poul-try Remedies and Poultry Feeds.) No. 18,659; Aug. 17; Gaz. vol. 217; p. 1053.
- Alden, John W., Boston, Mass. "Berwick." (For Cake.) No. 18,490; June 1; Gaz. vol. 215; p. 322.
- Alexander Brothers, Philadelphia, Pa. "Alexander Sole Leather." (For Sole-Leather.) No. 18,761; Sept. 21; Gaz. vol. 218; p. 874.
- Alexander, M. W., West Lynn, Mass. "N. A. S. O. Stand-ard First Aid Jar." (For Standard First-Aid Jars.) No. 18,465; May 18; Gaz. vol. 214; p. 1024.
- Alexander Sheppard & Sons, Inc., Philadelphia, Pa. "Morning Sip Dry Roast." (For Coffee.) No. 18,954; Dec. 28; Gaz. vol. 221; p. 1451.
- Alexander Sheppard & Sons, Inc., Philadelphia, Pa. "Bellevue The Coffee Of Quality." (For Coffee.) No. 18,955; Dec. 28; Gaz. vol. 221; p. 1451.
- Alexander Sheppard & Sons, Inc., Philadelphia, Pa. "Worthmore." (For Tea.) No. 18,956; Dec. 28; Gaz. vol. 221; p. 1451.
- Alexander Sheppard & Sons, Inc., Philadelphia, Pa. "Marcella." (For Tea.) No. 18,957; Dec. 28; Gaz. vol. 221; p. 1451.
- Alexander Sheppard & Sons, Inc., Philadelphia, Pa. "Worthmore." (For Coffee.) No. 18,958; Dec. 28; Gaz. vol. 221; p. 1451.
- Alexander Sheppard & Sons, Inc., Philadelphia, Pa. "Marcella." (For Coffee.) No. 18,959; Dec. 28; Gaz. vol. 221; p. 1451.
- Allwood Lime Company, Allwood Siding, near Manitowac, Wis. "Allwood 'Vienna Brand' Lime." (For a Lime Product.) No. 18,301; Mar. 16; Gaz. vol. 212; p. 1056.
- Alvine Water Co., The, Brooklyn, N. Y. "Compound Alvine Water Carbonated." (For Containers Filled with Carbonated Water.) No. 18,359; Apr. 13; Gaz. vol. 213; p. 747.
- Amalgamated Concessions Co., San Francisco, Cal. "Pan-Pac." (For Confections.) No. 18,360; Apr. 13; Gaz. vol. 213; p. 747.
- American Brewing Ass'n, Houston, Tex. "American Perfect Beer." (For Beer.) No. 18,165; Jan. 12; Gaz. vol. 210; p. 715.
- American Compounding Co., Jasper, Ala. "Baughn's Pellagra Remedy—Prescription No. 1—For Internal Use." (For a Pellagra Remedy.) No. 18,361; Apr. 13; Gaz. vol. 213; p. 747.
- American Lithographic Company, New York, N. Y. "Cigars." (For Cigars.) No. 18,933; Dec. 28; Gaz. vol. 221; p. 1451.
- Anchor Leather Co., Chicago, Ill. "Service Shoe Leathers." (For Leather.) No. 18,393; Apr. 27; Gaz. vol. 213; p. 1445.
- Anderson, Lafe, Kansas City, Mo. "Tiz Fiz." (For a Foam-Maker.) No. 18,166; Jan. 12; Gaz. vol. 210; p. 715.
- Andrews, Estate of Frank, deceased, Chicago; L. A. Rawson, administrator, Hinsdale, Ill. "Antiseptic Dental Cream." (For Dentifrice.) No. 18,316; Apr. 6; Gaz. vol. 213; p. 359.
- Archbold Manufacturing Corporation, Rochester, N. Y. "Jitney." (For Shoe-Polish.) No. 18,608; July 27; Gaz. vol. 216; p. 1317.
- Aromint Co., The, Cincinnati, Ohio. "Aromints." (For Mints.) No. 18,435; May 11; Gaz. vol. 214; p. 681.
- Aronson, Louis V., Newark, N. J. "Mama Doll." (For Dolls.) No. 18,167; Jan. 12; Gaz. vol. 210; p. 715.
- Asch, Leonard C., New York, N. Y. "Annette Kellermann Swimming Tights." (For Swimming-Tights.) No. 18,394; Apr. 27; Gaz. vol. 213; p. 1445.
- Atlas Brewing Company, Chicago, Ill. "Atlas Home Brew." (For Lager-Beer.) No. 18,594; July 20; Gaz. vol. 216; p. 1011.
- Aulls, Chas. W., Marshalltown, Iowa. "Eureka Stove Polish." (For Stove-Polish.) No. 18,383; Apr. 20; Gaz. vol. 213; p. 1116.
- Aurora Mantle & Lamp Company, Dover, Del., and Aurora, Ill. "The Safety First Inverted Mantle." (For In-verted Incandescent Gas-Mantles.) No. 18,595; July 20; Gaz. vol. 216; p. 1011.
- Aurora Mantle & Lamp Company, Dover, Del., and Aurora, Ill. "The Aurora Inverted Mantle." (For Inverted Incandescent Gas-Mantles.) No. 18,596; July 20; Gaz. vol. 216; p. 1011.
- Aurora Mantle & Lamp Company, Dover, Del., and Aurora, Ill. "Popular Rag" Inverted Mantle." (For In-verted Incandescent Gas-Mantles.) No. 18,597; July 20; Gaz. vol. 216; p. 1011.
- Auto City Brewing Co., Detroit, Mich. "Auto City." (For Beer.) No. 18,783; Oct. 5; Gaz. vol. 219; p. 268.
- Ayeock & Co., Ltd., Alexandria, La. "Little River Whis-ky." (For Whisky.) No. 18,684; Aug. 24; Gaz. vol. 217; p. 1339.
- Babak, Martin, Johnstown, Pa. "Pastillax." (For a Medical Preparation.) No. 18,598; July 20; Gaz. vol. 216; p. 1011.
- Baeder, Adamson & Co., New York, N. Y. "Household Package." (For Abrasive Paper and Cloth.) No. 18,362; Apr. 13; Gaz. vol. 213; p. 747.
- Baker Extract Company, Springfield, Mass. "Forest City." (For Flavoring Extracts.) No. 18,878; Nov. 30; Gaz. vol. 220; p. 1717.
- Baker Extract Co., Springfield, Mass. "Imperial." (For Flavoring Extracts.) No. 18,879; Nov. 30; Gaz. vol. 220; p. 1717.
- Bange, Henry, Newark, N. J. "Shinall." (For a Polish-ing Compound.) No. 18,395; Apr. 27; Gaz. vol. 213; p. 1445.
- Bass Islands' Vineyards Company, Sandusky, Ohio. "White Star Grape Juice." (For Unfermented Grape-Juice.) No. 18,317; Apr. 6; Gaz. vol. 213; p. 359.
- Battelle & Renwick, New York, N. Y. "Saltpetre." (For Potassium Nitrate.) No. 18,396; Apr. 27; Gaz. vol. 213; p. 1445.
- Baughman, Oliver H., Logansport, Ind. "Cash Premium Coffee, Money in Every Package." (For Coffee.) No. 18,796; Oct. 12; Gaz. vol. 219; p. 585.
- Bazzanella, Max, Baltimore, Md. "M-B." (For Solder.) No. 18,318; Apr. 6; Gaz. vol. 213; p. 359.

- Benish & Meyer, Selma, Ala. "Gold-Seal." (For Cigars.) No. 18,397; Apr. 27; Gaz. vol. 213; p. 1445.
- Berg & Beard Mfg. Co., Inc., The, Brooklyn, N. Y. "Rid of Rats." (For Exterminator for Rats and Mice.) No. 18,815; Nov. 2; Gaz. vol. 220; p. 347.
- Bernhard Brothers, Dayton, Ohio. "Canary." (For Coffee.) No. 18,398; Apr. 27; Gaz. vol. 213; p. 1445.
- Bianchi, Cesare, New York, N. Y. "Cella's Chocolates." (For Chocolates.) No. 18,853; Nov. 16; Gaz. vol. 220; p. 1041.
- Billings & Sons Piano Co., Milwaukee, Wis. "Your-Best-Pal." (For Pianos.) No. 18,272; Feb. 23; Gaz. vol. 211; p. 1262.
- Black, John, Streator, Ill. "Little Shabbona." (For Cigars.) No. 18,168; Jan. 12; Gaz. vol. 210; p. 715.
- Blanke-Wenneker Candy Company, St. Louis, Mo. "Jumbo Roasted Peanuts." (For Peanuts.) No. 18,724; Sept. 7; Gaz. vol. 218; p. 319.
- Blender, Nathan W., Kansas City, Mo. "Sunny Brand." (For Whisky.) No. 18,204; Feb. 2; Gaz. vol. 211; p. 283.
- Bleul, Bruno, New York, N. Y. "Iron Cross." (For Flour.) No. 18,819; Apr. 6; Gaz. vol. 213; p. 359.
- Blue Ribbon Liquor Supply House, Kansas City, Mo. "Keen River." (For Whisky.) No. 18,205; Feb. 2; Gaz. vol. 211; p. 283.
- Blue Ribbon Liquor Supply House, Kansas City, Mo. "Crow Ridge." (For Whisky.) No. 18,237; Feb. 9; Gaz. vol. 211; p. 640.
- Blumenkranz, Emil S., Hyde Park, Mass. "Union 100." (For Cigars.) No. 18,934; Dec. 28; Gaz. vol. 221; p. 1451.
- Bokel, J. A., Baltimore, Md. "Cherry Pepsin Tonic, A Compound." (For a Medicinal Tonic.) No. 18,422; May 4; Gaz. vol. 214; p. 342.
- Bolte, Louis, Marietta, Ohio. "Twin Indian." (For Cigars and Stogies.) No. 18,250; Feb. 23; Gaz. vol. 211; p. 1262.
- Borine Mfg. Co., New York, N. Y. "Boriclor." (For Tooth-Paste.) No. 18,685; Aug. 24; Gaz. vol. 217; p. 1339.
- Bosco & Company, New York, N. Y. "Bosco Gold Label Red." (For Wine.) No. 18,854; Nov. 16; Gaz. vol. 220; p. 1041.
- Bosco & Company, New York, N. Y. "Bosco Gold Label Sec." (For Wine.) No. 18,855; Nov. 16; Gaz. vol. 220; p. 1041.
- Bosco & Company, New York, N. Y. "Bosco Gold Label Brut." (For Wine.) No. 18,856; Nov. 16; Gaz. vol. 220; p. 1041.
- Bougas, Peter, Chicago, Ill. "Pure Olive Oil—Victory Brand." (For Olive-Oil.) No. 18,660; Aug. 17; Gaz. vol. 217; p. 1053.
- Bragg, Sumner B., Philadelphia, Pa. "Nubook." (For Hangers for Pictures, Books, Mirrors, Calendars, Thermometers, and other Articles of the Kind.) No. 18,857; Nov. 16; Gaz. vol. 220; p. 1041.
- Brazil Syndicate, Inc., Brooklyn, N. Y. "O'Donohue's." (For Coffee.) No. 18,858; Nov. 16; Gaz. vol. 220; p. 1041.
- Brazil Syndicate, Inc., Brooklyn, N. Y. "Alliance." (For Coffee.) No. 18,859; Nov. 16; Gaz. vol. 220; p. 1041.
- Brecht & Richter Company, Minneapolis, Minn. "E-Z Made Dough-Nut Flour." (For Doughnut-Flour.) No. 18,686; Aug. 24; Gaz. vol. 217; p. 1339.
- Brecht & Richter Company, Minneapolis, Minn. "Beats-All Soda Fountain Flavor." (For Flavoring Extracts.) No. 18,687; Aug. 24; Gaz. vol. 217; p. 1339.
- Brecht & Richter Company, Minneapolis, Minn. "Fruit Nectar." (For a Flavoring Compound.) No. 18,762; Sept. 21; Gaz. vol. 218; p. 874.
- Breitbart, Sam, New York, N. Y. "Breitbart's Chocolate Malted Syrup." (For Chocolate Malted Syrup.) No. 18,599; July 20; Gaz. vol. 216; p. 1011.
- Bridgeport Wood Finishing Co., The, New Milford, Conn. "Bridgeport Standard." (For Prepared Paint.) No. 18,169; Jan. 12; Gaz. vol. 210; p. 715.
- Bridgeport Wood Finishing Co., The, New Milford, Conn. "The Paint that Lasts." (For Prepared Paints.) No. 18,170; Jan. 12; Gaz. vol. 210; p. 715.
- Bridgeport Wood Finishing Co., The, Bridgeport and New Milford, Conn. "Bridgeport Standard." (For Prepared Paint.) No. 18,286; Mar. 9; Gaz. vol. 212; p. 687.
- Briscow, Daniel, Jr., Knoxville, Tenn. "Usemore Screen Clean." (For a Cleaning Compound for Wire Screens.) No. 18,251; Feb. 23; Gaz. vol. 211; p. 1262.
- Bromstaff Malt Extract Company, New York, N. Y. "Bromstaff Malt & Hops." (For Extract of Malt and Hops.) No. 18,935; Dec. 28; Gaz. vol. 221; p. 1451.
- Erown & Company Duluth, Minn. "Marvel." (For Tonic-Containers.) No. 18,688; Aug. 24; Gaz. vol. 217; p. 1339.
- Brown-White, Inc., Philadelphia, Pa. "Automobile Sweets." (For Candy and Confectionery.) No. 18,399; Apr. 27; Gaz. vol. 213; p. 1445.
- Buck, W. H. G., San Diego, Cal. "Mission Punch." (For Punch.) No. 18,491; June 1; Gaz. vol. 215; p. 322.
- Buckley Bakery & Macaroni Company, The, Kensington, Conn. "Macaroni." (For Macaroni.) No. 18,545; June 22; Gaz. vol. 215; p. 1261.
- Bunte Brothers, Chicago, Ill. "Bunte Marshmallows." (For Marshmallows.) No. 18,252; Feb. 23; Gaz. vol. 211; p. 1262.
- Bunte Brothers, Chicago, Ill. "Bunte Happy Home." (For Candies.) No. 18,302; Mar. 16; Gaz. vol. 212; p. 1056.
- Burns, Winnifred, Duluth, Minn. "Trophy Won February 25th 1915 At The American Art League." (For Gowns and Suits.) No. 18,784; Oct. 5; Gaz. vol. 219; p. 268.
- Busy Bee Manufacturing Company, Springfield, Mass. "E Z Shine." (For Stove and Nickel Polish.) No. 18,273; Mar. 2; Gaz. vol. 212; p. 326.
- Buxton, Benjamin C., Middletown Springs, Vt. "Justamere Farm." (For Cider.) No. 18,193; Jan. 19; Gaz. vol. 210; p. 1063.
- C. D. Kenny Co., Baltimore, Md. "Home-Wood." (For Coffee.) No. 18,372; Apr. 13; Gaz. vol. 213; p. 747.
- C. H. Evans & Sons, Hudson, N. Y. "Evans Light Cream Table Ale." (For Ale.) No. 18,195; Jan. 19; Gaz. vol. 210; p. 1063.
- Cabell Company, The, Baltimore, Md. "Delishus." (For Cake.) No. 18,400; Apr. 27; Gaz. vol. 213; p. 1445.
- California Chemical Co., Minneapolis, Minn. "Jersie Kream." (For a Medicinal Cream.) No. 18,579; July 6; Gaz. vol. 216; p. 326.
- Campbell, Edwin C., Portland, Oreg. "Campbell's Electric Spark." (For a Cleaning Preparation.) No. 18,755; Sept. 14; Gaz. vol. 218; p. 601.
- Canastota Canning Company, Canastota, N. Y. "Teasel." (For Canned Sugar-Corn.) No. 18,492; June 1; Gaz. vol. 215; p. 322.
- Canastota Canning Company, Canastota, N. Y. "Our C. C. C. Brand." (For Canned Beans.) No. 18,559; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Sentinel." (For Canned Beans.) No. 18,560; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Wan-Sum." (For Canned Beans.) No. 18,561; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Our C. C. C. Brand." (For Canned Peas.) No. 18,562; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Our C. C. C. Brand." (For Canned Sugar-Corn.) No. 18,563; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Sentinel." (For Canned Peas.) No. 18,564; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Sentinel." (For Canned Succotash.) No. 18,565; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Sentinel." (For Canned Sugar-Corn.) No. 18,566; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Wan-Sum." (For Canned Sugar-Corn.) No. 18,567; June 29; Gaz. vol. 215; p. 1497.
- Canastota Canning Company, Canastota, N. Y. "Wan-Sum." (For Canned Peas.) No. 18,568; June 29; Gaz. vol. 215; p. 1497.
- Carman & Featherston, Gaston, Oreg. "Carman's Logan Berry Juice." (For Unfermented and Non-Alcoholic Berry-Juice.) No. 18,880; Nov. 30; Gaz. vol. 220; p. 1717.
- Carter, Ezra W., Cohoes, N. Y. "Carter's Dyspepsia Remedy." (For a Dyspepsia Remedy.) No. 18,936; Dec. 28; Gaz. vol. 221; p. 1451.
- Castlebone Company, New York, N. Y. "Castle Bone." (For Featherbone.) No. 18,171; Jan. 12; Gaz. vol. 210; p. 715.
- Catsigianis, John, St. Louis, Mo. "Boy Scouts." (For Popcorn.) No. 18,321; Apr. 6; Gaz. vol. 213; p. 359.
- Central Chemical Company, Omaha, Nebr. "Kleenatone." (For a Cleansing Agent.) No. 18,661; Aug. 17; Gaz. vol. 217; p. 1053.
- Central Chemical Company, Omaha, Nebr. "Suntone." (For a Metal-Polishing Agent.) No. 18,662; Aug. 17; Gaz. vol. 217; p. 1053.
- Central Cigar Box Company, St. Louis, Mo. "Black and Tan." (For Cigars.) No. 18,637; Aug. 3; Gaz. vol. 217; p. 338.
- Central Cigar Box Company, St. Louis, Mo. "Hand Made 5 Cents." (For Cigars.) No. 18,663; Aug. 17; Gaz. vol. 217; p. 1053.
- Central Consumers Company, Louisville, Ky. "Phoenix Komon Beer." (For Beer.) No. 18,320; Apr. 6; Gaz. vol. 213; p. 359.
- Cereal Meal Co., The, Denver, Colo. "Cereal Meal." (For a Cereal Health Food.) No. 18,436; May 11; Gaz. vol. 214; p. 681.
- Channell Chemical Company, Chicago, Ill. "O-Cedar Combination Set." (For Mops and Dust-Cloths.) No. 18,466; May 18; Gaz. vol. 214; p. 1024.
- Charles H. Brown Paint Co., The, Brooklyn, N. Y. "Cnidado Con Las Imitaciones de Nuestras Latas." (For Paints.) No. 18,860; Nov. 16; Gaz. vol. 220; p. 1041.
- Clark, Alfred J., New York, N. Y. "Warner's Dustproof." (For a Sweeping Compound.) No. 18,600; July 20; Gaz. vol. 216; p. 1011.

Alphabetical list of registrants of labels—Continued.

- Clouthier, Elias L., Cambridge, Mass. "Egyptian Cream." (For Toilet Cream.) No. 18,816; Nov. 2; Gaz. vol. 220; p. 347.
- Clover Belt Cheese Company, Marshfield, Wis. "Clover Belt." (For Cheese.) No. 18,937; Dec. 28; Gaz. vol. 221; p. 1461.
- Coast Canning Co., The, Portland, Oreg. "Three C." (For Canned Salmon.) No. 18,938; Dec. 28; Gaz. vol. 221; p. 1451.
- Coast Fishing Company, Los Angeles, Cal. "Mermaid Supreme." (For Canned Tuna.) No. 18,763; Sept. 21; Gaz. vol. 218; p. 874.
- Coburn, R. W., Baltimore, Md. "Mme. Coburn's Maryland Mint Cordial." (For Cordial.) No. 18,764; Sept. 21; Gaz. vol. 218; p. 874.
- Coburn, R. W., Baltimore, Md. "Mme. Coburn's Southern Mint Julep." (For Mint Julep.) No. 18,765; Sept. 21; Gaz. vol. 218; p. 874.
- Coca Cola Bottling Works, Rockwood, Tenn. "Rockwood Strawberry Imitation." (For a Soft Drink.) No. 18,689; Aug. 24; Gaz. vol. 217; p. 1339.
- Cole, Charles S., Glenview, Ill. "Sweethearts." (For Candy.) No. 18,725; Sept. 7; Gaz. vol. 218; p. 319.
- Cole, James, Youngstown, Ohio. "Cole's Eureka." (For a Medicinal Preparation.) No. 18,664; Aug. 17; Gaz. vol. 217; p. 1053.
- Collis, Henry J., Taunton, Mass. "Collis' Famous Combination Ankle Supporters." (For Ankle-Supporters.) No. 18,506; June 8; Gaz. vol. 215; p. 665.
- Columbia Graphophone Co., Washington, D. C. "Personal Record." (For Sound-Records for Talking-Machines.) No. 18,785; Oct. 5; Gaz. vol. 219; p. 268.
- Columbian Steel Tank Co., Kansas City, Mo. "Tanks For The World." (For Steel Tanks.) No. 18,437; May 11; Gaz. vol. 214; p. 681.
- Comegys, Chas. W., Des Moines, Iowa. "Lightning Puncture Cure." (For Puncture Cure.) No. 18,207; Feb. 2; Gaz. vol. 211; p. 283.
- Consumers Bread Co., Kansas City, Mo. "Aunt Mary's Loaf Cake." (For Cake.) No. 18,473; May 25; Gaz. vol. 214; p. 1318.
- Consumers Refining Company, Cushing, Okla., and Chicago, Ill. "Deep-Rock." (For Petroleum Products.) No. 18,601; July 20; Gaz. vol. 216; p. 1011.
- Continental Condensed Milk Co., Mill Hall, Pa. "Osceola Brand." (For Sweetened Condensed Milk.) No. 18,817; Nov. 2; Gaz. vol. 220; p. 347.
- Continental Condensed Milk Co., Mill Hall, Pa. "Poinsettia Brand." (For Sweetened Condensed Milk.) No. 18,818; Nov. 2; Gaz. vol. 220; p. 347.
- Cooper, Frank J., San Francisco, Cal. "Fruit Stix." (For Confections Made from Fruits.) No. 18,438; May 11; Gaz. vol. 214; p. 681.
- Cooper, Frank J., San Francisco, Cal. "California Fruit-stix." (For Confections Made from Fruits.) No. 18,546; June 22; Gaz. vol. 215; p. 1261.
- Cooper Underwear Company, Kenosha, Wis. "Kenosha-Klosed-Krotch." (For Underwear.) No. 18,201; Jan. 26; Gaz. vol. 210; p. 1395.
- Cooper Underwear Company, Kenosha, Wis. "Cooper Kenosha-Klosed-Krotch." (For Underwear.) No. 18,202; Jan. 26; Gaz. vol. 210; p. 1395.
- Cooper Underwear Company, Kenosha, Wis. "Kenosha-Klosed-Krotch Union Suits." (For Underwear.) No. 18,203; Jan. 26; Gaz. vol. 210; p. 1395.
- Cooper Underwear Company, Kenosha, Wis. "Kenosha-Klosed-Krotch." (For Underwear.) No. 18,401; Apr. 27; Gaz. vol. 213; p. 1445.
- Cooper Underwear Company, Kenosha, Wis. "Coopers Kenosha-Klosed-Krotch Union Suits." (For Underwear.) No. 18,402; Apr. 27; Gaz. vol. 213; p. 1445.
- Cooper Underwear Company, Kenosha, Wis. "Coopers K-K-K Quality Since 1876." (For Underwear.) Nos. 18,517-18; June 15; Gaz. vol. 215; p. 976.
- Copeland & Ryder Co., The, Jefferson, Wis. "Reliable." (For Shoes.) No. 18,909; Dec. 21; Gaz. vol. 221; p. 1037.
- Corby Baking Co., The, Washington, D. C. "Corby Cake." (For Chocolate Cake.) No. 18,474; May 25; Gaz. vol. 214; p. 1318.
- Corby Baking Company, Washington, D. C. "Corby Cake." (For Lady-Cake.) No. 18,322; Apr. 6; Gaz. vol. 213; p. 359.
- Corby Baking Company, Washington, D. C. "Corby Cake." (For Plain Pound-Cake.) No. 18,323; Apr. 6; Gaz. vol. 213; p. 359.
- Corby Baking Company, Washington, D. C. "Corby Cake." (For Raisin-Cake.) No. 18,324; Apr. 6; Gaz. vol. 213; p. 359.
- Covitz, Herbert H., Boston, Mass. "Kell-Bell Brand." (For Neufchâtel Cheese.) No. 18,325; Apr. 6; Gaz. vol. 213; p. 359.
- Cox Company, The, St. Louis, Mo. "Red Devil Roach Destroyer." (For Roach-Destroyers.) No. 18,569; June 29; Gaz. vol. 215; p. 1497.
- Crockett & Well, Alexandria, La. "Country Made." (For Sugar-Cane Syrup.) No. 18,910; Dec. 21; Gaz. vol. 221; p. 1037.
- Crow, John S., Memphis, Tenn. "Jitney Fizz." (For Beverages.) No. 18,454; May 11; Gaz. vol. 214; p. 681.
- Crutchfield & Woolfolk, Pittsburgh, Pa. "Columbine Brand." (For Cantaloups.) No. 18,776; Sept. 28; Gaz. vol. 218; p. 1154.
- Crutchfield & Woolfolk, Pittsburgh, Pa. "Pioneer Brand." (For Corn, Tomatoes, Cucumbers, and Cabbage.) No. 18,939; Dec. 28; Gaz. vol. 221; p. 1451.
- Cunningham, V. B., Portland, Oreg. "Rat Swat." (For Rodent-Exterminators.) No. 18,364; Apr. 13; Gaz. vol. 213; p. 747.
- Curtis Olive Corporation, Bloomington and Los Angeles, Cal. "California Ripe Olives." (For Canned Olives.) No. 18,194; Jan. 19; Gaz. vol. 210; p. 1063.
- Dale, James J., Trenton, N. J. "Pottery." (For Earthenware Pottery.) No. 18,786; Oct. 5; Gaz. vol. 219; p. 268.
- Daugherty, Jennie R., Wichita, Kans. "No-Kaffeen." (For a Substitute for Coffee.) No. 18,727; Sept. 7; Gaz. vol. 218; p. 319.
- Dauscha, F. J., St. Louis, Mo. "Dauscha's Combination." (For Cigars.) No. 18,208; Feb. 2; Gaz. vol. 211; p. 283.
- Dauscha, F. J., St. Louis, Mo. "Laclede Bouquet." (For Cigars.) No. 18,384; Apr. 20; Gaz. vol. 213; p. 1116.
- David Adler & Sons Clothing Co., Milwaukee, Wis. "Sterling Brand Clothes." (For Clothing.) No. 18,547; June 22; Gaz. vol. 215; p. 1261.
- Davis Bros. Cheese Co., Plymouth, Wis. "Imperial Star & Crescent Selected Full Cream Cheese." (For Cheese.) No. 18,690; Aug. 24; Gaz. vol. 217; p. 1339.
- Davis, Geo. H., Jr., Norfolk, Va. "Alfax." (For Sall-Twine.) No. 18,326; Apr. 6; Gaz. vol. 213; p. 359.
- Davis, Geo. H., Jr., Norfolk, Va. "Dixie." (For Sall-Twine.) No. 18,327; Apr. 6; Gaz. vol. 213; p. 359.
- Davis, Geo. H., Jr., Norfolk, Va. "Excellent." (For Sall-Twine.) No. 18,328; Apr. 6; Gaz. vol. 213; p. 359.
- Davis, Geo. H., Jr., Norfolk, Va. "Samson." (For Sall-Twine.) No. 18,329; Apr. 6; Gaz. vol. 213; p. 359.
- Davis, Lyman H., Louisville, Ky. "Lyman H. Davis Rheumatic Liniment." (For Rheumatic Liniment.) No. 18,728; Sept. 7; Gaz. vol. 218; p. 319.
- Davis, Roger T., San Antonio, Tex. "Kleenit." (For Cleaners.) No. 18,298; Mar. 9; Gaz. vol. 212; p. 687.
- Davis, Sadie, Binghamton, N. Y. "Florade Violet Face Balm." (For a Face-Lotion.) No. 18,716; Aug. 31; Gaz. vol. 217; p. 1659.
- De Bevoise, Walter W., Brooklyn, N. Y. "Jumbo Wonders." (For Confectionery.) No. 18,253; Feb. 23; Gaz. vol. 211; p. 1262.
- De Bevoise, Walter W., Brooklyn, N. Y. "De Bevoise Big 48 Bar." (For Confectionery Bars Made of Chocolate and Peanuts.) No. 18,861; Nov. 16; Gaz. vol. 220; p. 1041.
- De Martini, Paul, Brooklyn, N. Y. "Cassinelli." (For Macaroni.) No. 18,589; July 13; Gaz. vol. 216; p. 662.
- Decorated Metal Manufacturing Co., Inc., Brooklyn, N. Y. "Typewriter Ribbons." (For Type-Writer Ribbons.) No. 18,911; Dec. 21; Gaz. vol. 221; p. 1037.
- Depue, William A., Lansing, Mich. "The K. C." (For Cigars.) No. 18,912; Dec. 21; Gaz. vol. 221; p. 1037.
- Detroit Optical Mfg. Co., Detroit, Mich. "Emerald-Glo." (For Eyeglasses.) No. 18,519; June 15; Gaz. vol. 215; p. 976.
- Devitt-Clark Packing Company, Biloxi, Miss. "Sea Bird." (For Canned Shrimp.) No. 18,206; Feb. 2; Gaz. vol. 211; p. 283.
- Di Nonno, Rocco, Meriden, Conn. "'No-Smart' Face Lotion." (For a Face-Lotion.) No. 18,493; June 1; Gaz. vol. 215; p. 322.
- Dirnberger Pop Corn Co., Buffalo, N. Y. "Good Scout." (For a Confection.) No. 18,787; Oct. 5; Gaz. vol. 219; p. 268.
- Dixie Highway Association, Chattanooga, Tenn. "Dixie Highway." (For Highway Markers or Signs.) No. 18,881; Nov. 30; Gaz. vol. 220; p. 1717.
- Domino Sugarmint Co., New York, N. Y. "Domino Sugarmint." (For Peppermint Lozenges.) No. 18,520; June 15; Gaz. vol. 215; p. 976.
- Doran, W. H., Brandenburg, Ky. "Doran's Gape Remedy." (For a Gape Remedy.) No. 18,729; Sept. 7; Gaz. vol. 218; p. 319.
- Doutmaco Selling Associates Incorporated, Chicago, Ill. "Klenzglas Cloth." (For a Glass-Cleaning Cloth.) No. 18,274; Mar. 2; Gaz. vol. 212; p. 326.
- Doutmaco Selling Associates Incorporated, Chicago, Ill. "Ye Kurtin Kall." (For a Telephone-Index.) No. 18,638; Aug. 3; Gaz. vol. 217; p. 338.
- Doutmaco Selling Associates Incorporated, Chicago, Ill. "King of Soaps, A Mineral Soap, Natures Own Crystals Pure and Harmless." (For Soap.) No. 18,819; Nov. 2; Gaz. vol. 220; p. 347.
- Drug Merchants of America, Inc., New York, N. Y. "Rex." (For Toilet-Paper.) No. 18,254; Feb. 23; Gaz. vol. 211; p. 1262.
- Drug Products Co., Inc., The, New York, N. Y. "Calcyates." (For Pulvoid Tablets.) No. 18,777; Sept. 28; Gaz. vol. 218; p. 1154.
- Dry Ridge Sanatorium and Hotel Co., Dry Ridge, Ky. "Avon-More." (For Mineral Waters.) No. 18,846; Nov. 9; Gaz. vol. 220; p. 676.

- Duluth-Superior Milling Co., Duluth, Minn. "Duluth Imperial." (For Flour.) No. 18,905; Dec. 14; Gaz. vol. 221; p. 735.
- Dunbar Molasses & Syrup Co., New Orleans, La. "Dunbar's Creole Gumbo." (For Creole Gumbo Soup.) No. 18,820; Nov. 2; Gaz. vol. 220; p. 347.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Tapioca." (For Tapioca.) No. 18,521; June 15; Gaz. vol. 215; p. 976.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Pearl Barley." (For Barley.) No. 18,522; June 15; Gaz. vol. 215; p. 976.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Rice Flour." (For Flour.) No. 18,523; June 15; Gaz. vol. 215; p. 976.
- Durkee & Co., E. R., New York, N. Y. "Invisible Starch." (For Starch.) No. 18,524; June 15; Gaz. vol. 215; p. 976.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Mixed Bird Seed." (For Bird-Seed.) No. 18,525; June 15; Gaz. vol. 215; p. 976.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Corn Starch." (For Corn-Starch.) No. 18,526; June 15; Gaz. vol. 215; p. 976.
- Dwinell-Wright Co., Boston, Mass. "Strictly Pure Coffee." (For Coffee.) No. 18,507; June 8; Gaz. vol. 215; p. 665.
- Dwinell-Wright Co., Boston, Mass. "The Toast of our Grand Parents." (For Coffee.) No. 18,508; June 8; Gaz. vol. 215; p. 665.
- Dwinell-Wright Co., Boston, Mass. "Southern Girl." (For Coffee.) No. 18,548; June 22; Gaz. vol. 215; p. 1261.
- Dwinell-Wright Co., Boston, Mass. "Dutch Scene." (For Coffee.) No. 18,609; July 27; Gaz. vol. 216; p. 1317.
- Dwinell-Wright Company, Boston, Mass. "Double Cross." (For Coffee.) No. 18,766; Sept. 21; Gaz. vol. 218; p. 874.
- Dwinell-Wright Company, Boston, Mass. "Boston Roasted Coffee." (For Coffee.) No. 18,882; Nov. 30; Gaz. vol. 220; p. 1717.
- E. La Montagne's Sons, New York, N. Y. "Sandeman's Gold Cord." (For Port-Wines.) No. 18,261; Feb. 23; Gaz. vol. 211; p. 1262.
- E. La Montagne's Sons, New York, N. Y. "Sandeman's Gold Cord." (For Sherry-Wines.) No. 18,262; Feb. 23; Gaz. vol. 211; p. 1262.
- E. La Montagne's Sons, New York, N. Y. "B & G." (For Sauterne Wines.) No. 18,341; Apr. 6; Gaz. vol. 213; p. 359.
- E. La Montagne's Sons, New York, N. Y. "B & G." (For Medoc Wines.) No. 18,342; Apr. 6; Gaz. vol. 213; p. 359.
- E. E. Samson Company, Inc., The, North Yakima, Wash. "Samson." (For Fresh Apples.) No. 18,928; Dec. 21; Gaz. vol. 221; p. 1037.
- Earl Cowan Company, Los Angeles, Cal. "Stolls." (For Coffee.) No. 18,403; Apr. 27; Gaz. vol. 213; p. 1445.
- Earl Cowan Company, Los Angeles, Cal. "Warm Friend." (For Roasted Coffee.) No. 18,602; July 20; Gaz. vol. 216; p. 1011.
- Eastman, John, Syracuse, N. Y. "True Blue." (For a Veterinary Remedy.) No. 18,527; June 15; Gaz. vol. 215; p. 976.
- Ebersole, Monroe E. (See Nye and Ebersole.)
- Eckstein, Herman E., New York, N. Y. "Hopewell Orchards." (For Fruits.) No. 18,439; May 11; Gaz. vol. 214; p. 681.
- Edler, Otto, West Hoboken, N. J. "Virisol." (For a Medicinal Preparation.) No. 18,287; Mar. 9; Gaz. vol. 212; p. 687.
- Edwards & Chamberlin Hardware Co., The, Kalamazoo, Mich. "Rainbow Roofing." (For Composition Rolled Roofing.) No. 18,440; May 11; Gaz. vol. 214; p. 681.
- Edwards & Chamberlin Hardware Co., The, Kalamazoo, Mich. "Cyclone Roofing." (For Composition Rolled Roofing.) No. 18,441; May 11; Gaz. vol. 214; p. 681.
- Eikenhout & Sons, H., Grand Rapids, Mich. "Polar Bear Sheathing." (For Sheathing-Paper.) No. 18,404; Apr. 27; Gaz. vol. 213; p. 1445.
- Elliott, Herbert, Toronto, Ontario, Canada. "The Tipperary Pup." (For a Grotesque Figure of a Dog.) No. 18,385; Apr. 20; Gaz. vol. 213; p. 1116.
- Eman Manufacturing Company, The, Denver, Colo. "Sulfox." (For Medicinal Waters.) No. 18,365; Apr. 13; Gaz. vol. 213; p. 747.
- Emmer Products Company, Worland, Wyo. "Buffum's Emmer Pancake Flour Self-Rising." (For Pancake-Flour.) No. 18,913; Dec. 21; Gaz. vol. 221; p. 1037.
- Emmer Products Company, Worland, Wyo. "Buffum's Emmer Graham." (For Graham Flour.) No. 18,914; Dec. 21; Gaz. vol. 221; p. 1037.
- Emmer Products Company, Worland, Wyo. "Buffum's Emmer Breakfast Food." (For Breakfast Food.) No. 18,915; Dec. 21; Gaz. vol. 221; p. 1037.
- Emmer Products Company, Worland, Wyo. "Emmerol." (For Flour.) No. 18,940; Dec. 28; Gaz. vol. 221; p. 1451.
- Empire State Pickling Co., Phelps, N. Y. "York State." (For Sauer-Kraut.) No. 18,821; Nov. 2; Gaz. vol. 220; p. 347.
- Empire State Pickling Co., Phelps, N. Y. "Silver Floss." (For Sauer-Kraut.) No. 18,822; Nov. 2; Gaz. vol. 220; p. 347.
- Escondido Vineyard & Vinery Company, Escondido, Cal. "Sun Kist Burgundy." (For Wine.) No. 18,528; June 15; Gaz. vol. 215; p. 976.
- Estate of P. D. Beckwith, Inc., Dowagiac, Mich. "Round Oak Doe-Wab-Jack Stoves, Ranges, Moistair Heating Systems." (For Stoves, Ranges, and Heating Systems.) No. 18,941; Dec. 28; Gaz. vol. 221; p. 1451.
- Eureka Bait Co., Coldwater, Mich. "Eureka Wiggler." (For a Bait.) No. 18,691; Aug. 24; Gaz. vol. 217; p. 1339.
- Evans, J. Ward, Corbett, Oreg. "Golden Sugar Corn." (For Sweet Corn.) No. 18,590; July 13; Gaz. vol. 216; p. 662.
- Everett, Heaney & Co., New York, N. Y. "Republican." (For Piece Goods.) No. 18,423; May 4; Gaz. vol. 214; p. 342.
- F. G. Vogt & Sons, Incorporated, Philadelphia, Pa. "Vogt's Philadelphia Scrapple." (For Scrapple.) No. 18,514; June 8; Gaz. vol. 215; p. 665.
- F. G. Vogt & Sons, Incorporated, Philadelphia, Pa. "Vogt's Baked Meatcake." (For Canned Meat.) No. 18,680; Aug. 17; Gaz. vol. 217; p. 1053.
- F. L. Daggett Company, Boston, Mass. "Liggett Brand Cherride." (For Cherride Flavor.) No. 18,726; Sept. 7; Gaz. vol. 218; p. 319.
- Falk Tobacco Company, New York, N. Y. "Serene Mixture." (For Smoking-Tobacco.) No. 18,209; Feb. 2; Gaz. vol. 211; p. 283.
- Farrell & Co., Omaha, Nebr. "Farrell's Pure Maple Sap Syrup." (For Maple-Syrup.) No. 18,823; Nov. 2; Gaz. vol. 220; p. 347.
- Farrell & Co., Omaha, Nebr. "Favorite Breakfast Brand." (For Cane Maple Syrup.) No. 18,824; Nov. 2; Gaz. vol. 220; p. 347.
- Felton & Son, Inc., South Boston, Mass. "Felton's Pure Crystal Spring Rum." (For Rum.) No. 18,303; Mar. 16; Gaz. vol. 212; p. 1056.
- Felton & Son, Inc., South Boston, Mass. "Felton's Crystal Spring Old Rum." (For Rum.) No. 18,304; Mar. 16; Gaz. vol. 212; p. 1056.
- Felton & Son, Inc., South Boston, Mass. "Standard Rum of the Country." (For Rum.) No. 18,305; Mar. 16; Gaz. vol. 212; p. 1056.
- Fenway Breweries, Boston, Mass. "The Beer Without A Substitute." (For Beer.) No. 18,424; May 4; Gaz. vol. 214; p. 342.
- Finch, George M., Bloomington, Ill. "Finch's Hair Lotion." (For a Hair-Lotion.) No. 18,847; Nov. 9; Gaz. vol. 220; p. 676.
- First National Bank, The, Sterling, Ill. "First National Bank." (For Check-Books.) No. 18,306; Mar. 16; Gaz. vol. 212; p. 1056.
- Fisher, William S., New York, N. Y. "Marcon-Sloper Refilling Composition." (For a Refilling Composition.) No. 18,580; July 6; Gaz. vol. 216; p. 326.
- Fitzpatrick Bros., Chicago, Ill. "Linoleum Oil Soap." (For Soap.) No. 18,529; June 15; Gaz. vol. 215; p. 976.
- Florence Manufacturing Company, Northampton, Mass. "Pro-phy-lactic Tooth Brush." (For Tooth-Brushes.) No. 18,307; Mar. 16; Gaz. vol. 212; p. 1056.
- Foege & Son, John, Richmond, Va. "John Jr." (For Cigars.) No. 18,639; Aug. 3; Gaz. vol. 217; p. 338.
- Foot & Jenks, Jackson, Mich. "Killarney." (For Ginger-Ale.) No. 18,942; Dec. 28; Gaz. vol. 221; p. 1451.
- Fortriede, Chris., Cincinnati, Ohio. "White Seal." (For Cigars.) No. 18,442; May 11; Gaz. vol. 214; p. 681.
- Fortriede, Chris., Cincinnati, Ohio. "Blue Seal." (For Cigars.) No. 18,443; May 11; Gaz. vol. 214; p. 681.
- Franklin Baker Company, The, Philadelphia, Pa. "Baker Gelatine." (For Gelatin.) No. 18,730; Sept. 7; Gaz. vol. 218; p. 319.
- Franklin Baker Company, The, Philadelphia, Pa. "Baker's Fresh Grated Coconut." (For Grated Coconut.) No. 18,825; Nov. 2; Gaz. vol. 220; p. 347.
- Franklin Brewing Company, Brooklyn, N. Y. "Quaker Beer." (For Beer.) No. 18,916; Dec. 21; Gaz. vol. 221; p. 1037.
- Franklin MacVeagh & Company, Chicago, Ill. "Karina." (For Cigars.) No. 18,790; Oct. 5; Gaz. vol. 219; p. 268.
- Fredrick, William, Monett, Mo. "Wm. Fredrick's Hand Made Best by Test Cigars." (For Cigars.) No. 18,826; Nov. 2; Gaz. vol. 220; p. 347.
- Freeburger, Willie A., Calgary, Alberta, Canada. "Air-Vule." (For a Preparation for Repairing Pneumatic Tires.) No. 18,275; Mar. 2; Gaz. vol. 212; p. 326.
- French, Howard B., Philadelphia, Pa. "French's." (For Cement.) No. 18,366; Apr. 13; Gaz. vol. 213; p. 747.
- Fresno Raisin and Fruit Products Company, Fresno, Cal. "Bowen's Fresno Brand." (For Confections.) No. 18,172; Jan. 12; Gaz. vol. 210; p. 715.
- Fresno Raisin & Fruit Products Co., Fresno, Cal. "Mari-ani's Fresno Brand." (For Raisins.) No. 18,210; Feb. 2; Gaz. vol. 211; p. 283.
- Frick, Phillip S., Oswego, Kans. "Eu-ca-lyp-tine." (For a Remedy.) No. 18,804; Oct. 19; Gaz. vol. 219; p. 928.

Alphabetical list of registrants of labels—Continued.

- Friedman Bros., New York, N. Y. "Gantemo." (For Cigars.) No. 18,943; Dec. 28; Gaz. vol. 221; p. 1451.
- Fritsch & Son, Lancaster, Pa. "Beech-Nut Cigars." (For Beech-Nut Cigars.) No. 18,333; Apr. 6; Gaz. vol. 213; p. 359.
- Fulcher, L. O., Mayfield, Ky. "Cherry Kola." (For a Beverage.) No. 18,756; Sept. 14; Gaz. vol. 218; p. 601.
- G. Washington Coffee Refining Co., New York, N. Y. "G Washington's." (For Prepared Tea.) No. 18,753; Sept. 7; Gaz. vol. 218; p. 319.
- G. C. Hanford Mfg. Co., Syracuse, N. Y. "Hanford's Celery Cure." (For Medicinal Preparations.) No. 18,862; Nov. 16; Gaz. vol. 220; p. 1041.
- G. C. Hanford Mfg. Co., Syracuse, N. Y. "Hanford's Celery Cure." (For Medicinal Preparations.) No. 18,873; Nov. 23; Gaz. vol. 220; p. 1372.
- Gaby Deslys Distributing Company, The, New York, N. Y., assignor to The Importers Company, Denver, Colo. "Le Secret Gaby Deslys." (For Cosmetics.) No. 18,603; July 20; Gaz. vol. 216; p. 1011.
- Galehouse, F. C., Taft, Cal. "Red Mixture." (For a Medicinal Preparation.) No. 18,367; Apr. 13; Gaz. vol. 213; p. 747.
- George Orlove Company, The, Bridgeport, Conn. "Seal of Dakota." (For Wheat-Flour.) No. 18,338; Nov. 2; Gaz. vol. 220; p. 347.
- George Ziegler Co., Milwaukee, Wis. "Ziegler's Malted Milk Sweet Chocolate." (For Malted Milk Sweet Chocolate.) No. 18,607; July 20; Gaz. vol. 216; p. 1011.
- German-American Coffee Co., Omaha, Nebr. "Fontenelle." (For Coffee.) No. 18,444; May 11; Gaz. vol. 214; p. 681.
- Germantown Almegum Mfg. Co., Philadelphia, Pa. "Jitney Brand." (For Automobile-Tires.) No. 18,692; Aug. 24; Gaz. vol. 217; p. 1339.
- Gillet, S. W., Los Angeles, Cal. "Sunshine Shampoo." (For Tin, Glass, and Clay Containers of Shampoo.) No. 18,387; Apr. 20; Gaz. vol. 213; p. 1116.
- Glickman, Harris, New York, N. Y. "Zip The Zip." (For a Non-Alcoholic Beverage.) No. 18,425; May 4; Gaz. vol. 214; p. 342.
- Goldsmith, Silver & Co., Boston, Mass. "108." (For Cigars.) No. 18,334; Apr. 6; Gaz. vol. 213; p. 359.
- Golland, Morris, New York, N. Y. "Ford Overcoat." (For Overcoats.) No. 18,665; Aug. 17; Gaz. vol. 217; p. 1053.
- Golland, Morris, New York, N. Y. "Ford Suit." (For Men's Suits.) No. 18,731; Sept. 7; Gaz. vol. 218; p. 319.
- Golland, Morris, New York, N. Y. "United States Golf Clothing Company, Makers of Golf Suits." (For Men's Suits.) No. 18,918; Dec. 21; Gaz. vol. 221; p. 1037.
- Goodman Liquor Company, Waco, Tex. "Four Glories." (For Whisky.) No. 18,289; Mar. 9; Gaz. vol. 212; p. 687.
- Goodman Liquor Company, Waco, Tex. "Four Beauties." (For Whisky.) No. 18,388; Apr. 20; Gaz. vol. 213; p. 1116.
- Goodway, Joseph A., Pittsburgh, Pa. "Goodway's Sunburn Lotion." (For a Liquid Lotion Having Certain Medicinal Properties.) No. 18,530; June 15; Gaz. vol. 215; p. 976.
- Graves, Ernest M. (See Hutchens and Graves.)
- Gray, Elmer E., Protection, Kans. "Protection Barbed Wire Liniment." (For Liniment.) No. 18,732; Sept. 7; Gaz. vol. 218; p. 319.
- Green & Green, Houston, Tex. "Muscadine Punch." (For a Beverage.) No. 18,549; June 22; Gaz. vol. 215; p. 1261.
- Greenwood & Company, Savannah, Ga. "Sigora." (For Cigars.) No. 18,570; June 29; Gaz. vol. 215; p. 1497.
- Grocers Biscuit Company, The, Louisville, Ky. "Some Biscuit." (For Crackers.) No. 18,290; Mar. 9; Gaz. vol. 212; p. 687.
- Grocers' Biscuit Company, The, Louisville, Ky. "Min'a Biscuit." (For Crackers.) No. 18,640; Aug. 3; Gaz. vol. 217; p. 338.
- Grocers' Biscuit Company, The, Louisville, Ky. "Mac'ko Snaps." (For Cakes.) No. 18,641; Aug. 3; Gaz. vol. 217; p. 338.
- Grocers Coffee Co., Indianapolis, Ind. "Gates Pioneer." (For Coffee.) No. 18,944; Dec. 28; Gaz. vol. 221; p. 1451.
- Gross, Louis, Brooklyn, N. Y. "Writing Fluid." (For Writing-Inks.) No. 18,255; Feb. 23; Gaz. vol. 211; p. 1262.
- Grove City Broom Company, Grove City, Pa. "Blue Ribbon Parlor Brooms." (For Brooms.) No. 18,248; Feb. 16; Gaz. vol. 211; p. 954.
- Gunther & Hughey, Cincinnati, Ohio. "Hughey's Boiler Cleaner." (For a Boiler-Cleaner.) No. 18,610; July 27; Gaz. vol. 216; p. 1317.
- Guthridge, Francis G., Chicago, Ill. "Guthridge Indore Sports Base-Ball and Golf." (For Games.) No. 18,883; Nov. 30; Gaz. vol. 220; p. 1717.
- Guzik, M., Chicago, Ill. "Examination Blank." (For Blank Books.) No. 18,211; Feb. 2; Gaz. vol. 211; p. 283.
- H. Behrens Mfg. Co., Winona, Minn. "Never-Mend." (For Metal Ware.) No. 18,550; June 22; Gaz. vol. 215; p. 1261.
- H. G. Prince & Co., Oakland, Cal. "H. G. Prince & Co." (For Canned White Cherries.) No. 18,840; Nov. 2; Gaz. vol. 220; p. 347.
- H-R-Co., The, Cleveland, Ohio. "Tonsoleum." (For a Medicinal Preparation.) No. 18,901; Dec. 14; Gaz. vol. 221; p. 735.
- Haas & Sons, Geo., San Francisco, Cal. "Supreme Sweets." (For Confections.) No. 18,445; May 11; Gaz. vol. 214; p. 681.
- Haimer, Leon, Tampa, Fla. "Haimer's." (For Use on Boxes or Packages of Cigars.) No. 18,335; Apr. 6; Gaz. vol. 213; p. 359.
- Hammerschlag Manufacturing Company, The, New York, N. Y. "Hammerschlag's Waxed Papers." (For Waxed Papers.) No. 18,571; June 29; Gaz. vol. 215; p. 1497.
- Hamp, Florentine J., Duluth, Minn. "Albifine." (For a Cosmetic.) No. 18,797; Oct. 12; Gaz. vol. 219; p. 585.
- Hanson, E. J. F., Chambersburg, Pa. "Bread." (For Bread.) No. 18,173; Jan. 12; Gaz. vol. 210; p. 715.
- Hanson, E. J. F., Chambersburg, Pa. "B Cured Bread." (For Bread.) No. 18,174; Jan. 12; Gaz. vol. 210; p. 715.
- Happ Brothers Co., Macon, Ga. "Plowman Overall." (For Overalls.) No. 18,368; Apr. 13; Gaz. vol. 213; p. 747.
- Harris, Morris D., New York, N. Y. "All Over Land Shirt." (For Shirts.) No. 18,694; Aug. 24; Gaz. vol. 217; p. 1339.
- Harrison, William H., Cincinnati, Ohio. "Dixie Highway." (For Coffee.) No. 18,945; Dec. 28; Gaz. vol. 221; p. 1451.
- Hashiba, Frank Y., New York, N. Y. "Mikado." (For Table Sauce.) No. 18,446; May 11; Gaz. vol. 214; p. 681.
- Hauck, Cornelius J., Cincinnati, Ohio. "Hauck's Green Label." (For Near Beer.) No. 18,581; July 6; Gaz. vol. 216; p. 326.
- Hawley, Wm. E., St. Louis, Mo. "Bonita." (For a Cleaner.) No. 18,472; May 13; Gaz. vol. 214; p. 1024.
- Healy, John N., Philadelphia, Pa. "Panther Spark Plug." (For Spark-Plugs.) No. 18,175; Jan. 12; Gaz. vol. 210; p. 715.
- Heinemann, A. D., Memphis, Tenn. "Syrup Kinovic Compound." (For a Tonic.) No. 18,919; Dec. 21; Gaz. vol. 221; p. 1037.
- Helmet Company, The, Cincinnati, Ohio. "Roundees." (For a Chewing-Gum Confection.) No. 18,531; June 15; Gaz. vol. 215; p. 976.
- Henderson Herb Company, Dayton, Ohio. "Henderson Herb Tablets, Indian Remedy." (For a Medicinal Preparation.) No. 18,827; Nov. 2; Gaz. vol. 220; p. 347.
- Henri Hanause Co., The, Chicago, Ill. "Hanco Brand Limburgerette." (For Cheese.) No. 18,256; Feb. 23; Gaz. vol. 211; p. 1262.
- Henschel & Co., A. C., Chicago, Ill. "New Five." (For Cigars.) No. 18,798; Oct. 12; Gaz. vol. 219; p. 585.
- Herborg, Emil, New York, N. Y. "Royal Brand Sandwich Paste." (For Paste.) No. 18,336; Apr. 6; Gaz. vol. 213; p. 359.
- Herbst, Philip, New York, N. Y. "Hairatus." (For a Hair-Tonic.) No. 18,695; Aug. 24; Gaz. vol. 217; p. 1339.
- Hercules Talking Machine Co., The, New York, N. Y. "Hercules Talking Machine." (For Talking-Machines.) No. 18,828; Nov. 2; Gaz. vol. 220; p. 347.
- Hershey Chocolate Company, Hershey, Pa. "Hershey's." (For Chewing-Gum.) No. 18,611; July 27; Gaz. vol. 216; p. 1317.
- Hewett, Charles F., Boston, Mass. "Hewett's Herbal Remedies." (For Medicines.) No. 18,369; Apr. 13; Gaz. vol. 213; p. 747.
- Heyniger, Pitt & Co., Inc., Corning, N. Y. "Granulated." (For Coffee.) No. 18,288; Mar. 9; Gaz. vol. 212; p. 687.
- Hi-Gloss Mfg. Co., Scranton, Pa. "Hi-Gloss Wood Polish." (For Wood-Polish.) No. 18,778; Sept. 28; Gaz. vol. 218; p. 1154.
- Higgins, C. D., Greensboro, N. C. "Tar Heel Croup and Pneumonia Salve." (For Salve.) No. 18,863; Nov. 16; Gaz. vol. 220; p. 1041.
- Hiscox Bros. Co., Patahogue, N. Y. "Parker's Toilet Cream." (For a Toilet Cream.) No. 18,532; June 15; Gaz. vol. 215; p. 976.
- Hoarty, Peter, Pittsburgh, Pa. "Hoarty's." (For a Medicinal Preparation.) No. 18,612; July 27; Gaz. vol. 216; p. 1317.
- Hoffman & Hauck, New York and Woodhaven, N. Y. "Warranted Pure Honey H & H Pure Food Products for Health and Happiness, Hoffman & Hauck, Woodhaven, N. Y." (For Honey.) No. 18,657; Aug. 10; Gaz. vol. 217; p. 698.
- Hoffman & Hauck, New York, N. Y. "Warranted Strictly Pure H & H Vermont Maple Syrup H & H Pure Food Products for Health & Happiness, Hoffman & Hauck, Woodhaven, N. Y." (For Maple-Syrup.) No. 18,757; Sept. 14; Gaz. vol. 218; p. 601.
- Hood River Apple Vinegar Co., Hood River, Oreg. "Yellow Newtown." (For Cider Vinegar.) No. 18,475; May 25; Gaz. vol. 214; p. 1318.

- Hood River Apple Vinegar Co., Hood River, Oreg. "Yellow Newtown." (For Cider.) No. 18,494; June 1; Gaz. vol. 215; p. 322.
- Horlick, Alexander, Milwaukee, Wis. "Horlick's Oatin Milk." (For Oatin Milk.) No. 18,405; Apr. 27; Gaz. vol. 213; p. 1445.
- Horlick, Arnold A., Milwaukee, Wis. "Horlick's Biscuit." (For Biscuit.) No. 18,805; Oct. 19; Gaz. vol. 219; p. 928.
- Horlick Maltito Biscuit Co., Milwaukee, Wis. "Horlick's Maltito." (For Maltito Food.) No. 18,406; Apr. 27; Gaz. vol. 213; p. 1445.
- Hornor, Edward B., Lancaster, Pa. "Moose Heart." (For Cigars.) No. 18,495; June 1; Gaz. vol. 215; p. 322.
- Hours Saved Co., Toledo, Ohio. "Hours Saved." (For a Washing Preparation.) No. 18,733; Sept. 7; Gaz. vol. 218; p. 819.
- Huff Mfg. Co., The H. L., Louisville, Ky. "Huff's Hoarhound and Honey Drops." (For a Confection.) No. 18,808; Oct. 26; Gaz. vol. 219; p. 1236.
- Hughes, Katharine M., Providence, R. I. "Crown." (For a Hair-Tonic.) No. 18,309; Mar. 16; Gaz. vol. 212; p. 1056.
- Huntton & Gorham Co., Providence, R. I. "Old Coon." (For Cigars.) No. 18,337; Apr. 6; Gaz. vol. 213; p. 359.
- Huntton & Gorham Co., Providence, R. I. "H & G." (For Cigars.) No. 18,613; July 27; Gaz. vol. 216; p. 1317.
- Hutchens, H. B., and Ernest M. Graves, Wabash, Ind. "Home Dry Cleaner." (For a Cleaning Compound.) No. 18,788; Oct. 5; Gaz. vol. 219; p. 268.
- Hyman & Oppenheim, New York, N. Y. "Universal." (For Hair-Nets.) No. 18,338; Apr. 6; Gaz. vol. 213; p. 359.
- Hyman & Oppenheim, New York, N. Y. "Stay Fast." (For Hair-Nets.) No. 18,339; Apr. 6; Gaz. vol. 213; p. 359.
- I. T. S. Rubber Company, The, Elyria, Ohio. "I. T. S." (For Rubber Heels.) No. 18,642; Aug. 3; Gaz. vol. 217; p. 338.
- Importers Coffee Co., New Orleans, La. "French Restaurant." (For Coffee and Chicory.) No. 18,196; Jan. 19; Gaz. vol. 210; p. 1063.
- Importers Coffee Co., New Orleans, La. "Old 76." (For Coffee and Chicory.) No. 18,197; Jan. 19; Gaz. vol. 210; p. 1063.
- Importers Coffee Co., New Orleans, La. "Rising Sun." (For Coffee.) No. 18,198; Jan. 19; Gaz. vol. 210; p. 1063.
- Importers Coffee Co., Ltd., New Orleans, La. "Jackson Square." (For Coffee and Chicory Compound.) No. 18,768; Sept. 21; Gaz. vol. 218; p. 874.
- Importers Company, The. (See Gaby Deslys Distributing Company, The, assignor.)
- Independent Lamp & Wire Company, Inc., Weehawken, N. J., and New York, N. Y. "Argolyte." (For Incandescent Electric Lamps.) No. 18,643; Aug. 3; Gaz. vol. 217; p. 338.
- Indiana Millers Association, Indianapolis, Ind. "Know Your Flour." (For Flour.) No. 18,779; Sept. 28; Gaz. vol. 218; p. 1154.
- Inter-State Distilling Co., Kansas City, Mo. "Old Fashion." (For Whisky.) No. 18,276; Mar. 2; Gaz. vol. 212; p. 326.
- International Drug Co., The, Cleveland, Ohio. "The Nine Brothers." (For Tasteless Castor-Oil.) No. 18,257; Feb. 23; Gaz. vol. 211; p. 1262.
- International Pharmaceutical Company, Chicago, Ill. "Lax-Ola, The Key To Health." (For Laxative Tablets.) No. 18,496; June 1; Gaz. vol. 215; p. 322.
- Interstate Tablet Co., Chicago, Ill. "Marquise." (For Writing-Paper.) No. 18,946; Dec. 28; Gaz. vol. 221; p. 1451.
- Iowa Pop Corn and Cereal Company, Webster City, Iowa. "White Flake Brand Dry Shelled Sure-Popping Corn." (For Popcorn.) No. 18,212; Feb. 2; Gaz. vol. 211; p. 283.
- J. A. Folger & Company, San Francisco, Cal. "Royalist." (For Tea.) No. 18,330; Apr. 6; Gaz. vol. 213; p. 359.
- J. A. Folger & Company, San Francisco, Cal. "Shasta." (For Coffee.) No. 18,331; Apr. 6; Gaz. vol. 213; p. 359.
- J. A. Folger & Company, Kansas City, Mo. "Hillside." (For Coffee.) No. 18,332; Apr. 6; Gaz. vol. 213; p. 359.
- J. A. Folger & Co., Kansas City, Mo. "Hillside." (For Tea.) No. 18,386; Apr. 20; Gaz. vol. 213; p. 1116.
- J. A. Folger & Co., Kansas City, Mo. "Comrade." (For Coffee.) No. 18,906; Dec. 14; Gaz. vol. 221; p. 735.
- J. G. Thomson & Co., Ltd., Leith, Scotland. "Royal Arms, Rare Old Scotch Whisky." (For Scotch Whisky.) No. 18,354; Apr. 6; Gaz. vol. 213; p. 359.
- J. W. Goddard & Sons, Incorporated, New York, N. Y. "Goddard White Weaves—Goddard for Goodness." (For Textile Fabrics.) No. 18,917; Dec. 21; Gaz. vol. 221; p. 1037.
- J. W. Teasdale & Co., East St. Louis, Ill., and St. Louis, Mo. "Banner Brand." (For Apples.) No. 18,191; Jan. 12; Gaz. vol. 210; p. 715.
- J. W. Teasdale & Co., East St. Louis, Ill., and St. Louis, Mo. "Banner Brand." (For Dried Fruit.) No. 18,269; Feb. 23; Gaz. vol. 211; p. 1262.
- Jacobs Candy Company, Ltd., New Orleans, La. "Made Last Night." (For Candy.) No. 18,734; Sept. 7; Gaz. vol. 218; p. 319.
- Jackson, Eugene, Thonotosassa, Fla. "Zephyr Plaster Powder." (For Plaster-Powder.) No. 18,644; Aug. 3; Gaz. vol. 217; p. 338.
- Japanese Tissue Mills, Holyoke, Mass. "Hy-GN-IC Napkins." (For Paper Napkins.) No. 18,447; May 11; Gaz. vol. 214; p. 681.
- Jaumann, Charles, Philadelphia, Pa. "Red Devil Cement." (For Cement.) No. 18,696; Aug. 24; Gaz. vol. 217; p. 1339.
- Jidas Bros. & Co., J. D., Chicago, Ill. "Delight Cleaner." (For a Scouring and Cleaning Preparation.) No. 18,497; June 1; Gaz. vol. 215; p. 322.
- John Hauck Brewing Company, The, Cincinnati, Ohio. "Hauck's Bock Beer." (For Beer.) No. 18,308; Mar. 16; Gaz. vol. 212; p. 1056.
- John Hoberg Company, The, Green Bay, Wis. "Waukesha." (For Toilet-Paper.) No. 18,533; June 15; Gaz. vol. 215; p. 976.
- John Hoberg Company, The, Green Bay, Wis. "Wahnetta." (For Toilet-Paper.) No. 18,534; June 15; Gaz. vol. 215; p. 976.
- Johnston, John W., Rochester, N. Y. "Snow White." (For a Water-Color Paint.) No. 18,476; May 25; Gaz. vol. 214; p. 1318.
- Jones, G. C., Atlanta, Ga. "Revil." (For Liver-Tablets.) No. 18,739; Sept. 7; Gaz. vol. 218; p. 319.
- Joseph N. Eisendrath Company, The, Chicago, Ill. "Standwater." (For Leather.) No. 18,898; Dec. 14; Gaz. vol. 221; p. 735.
- Joseph N. Eisendrath Company, The, Chicago, Ill. "Standwashe." (For Leather.) No. 18,899; Dec. 14; Gaz. vol. 221; p. 735.
- Joseph N. Eisendrath Company, The, Chicago, Ill. "Standwett." (For Leather.) No. 18,900; Dec. 14; Gaz. vol. 221; p. 735.
- Jouannet, Alfred, Mount Pleasant, S. C. "Cotton Boll." (For Seeds.) No. 18,509; June 8; Gaz. vol. 215; p. 665.
- K. D. Cigar Co., The, Hoisington, Kans. "D D D." (For Cigars.) No. 18,582; July 6; Gaz. vol. 216; p. 326.
- Kaffee Hag Corporation, New York, N. Y. "Kaffee Hag." (For Coffee.) No. 18,370; Apr. 13; Gaz. vol. 213; p. 747.
- Kalak Water Company of New York, Inc., Brooklyn, N. Y. "Kalak Water." (For Artificially-Prepared Medicinal Water.) No. 18,735; Sept. 7; Gaz. vol. 218; p. 319.
- Kalak Water Company of New York, Inc., Brooklyn, N. Y. "Kalak." (For Artificially-Prepared Medicinal Water.) No. 18,736; Sept. 7; Gaz. vol. 218; p. 319.
- Kalamazoo Stationery Co., Kalamazoo, Mich. "Venus Perfect Writing Paper." (For Writing-Paper.) No. 18,448; May 11; Gaz. vol. 214; p. 681.
- Kalamazoo Stationery Co., Kalamazoo, Mich. "Selected Quality Linen Finish Writing Paper." (For Writing-Paper.) No. 18,449; May 11; Gaz. vol. 214; p. 681.
- Kalamazoo Stationery Co., Kalamazoo, Mich. "Ramona Linen Writing Paper." (For Writing-Paper.) No. 18,477; May 25; Gaz. vol. 214; p. 1318.
- Kalamazoo Stationery Co., Kalamazoo, Mich. "Pure Linen Writing Paper." (For Writing-Paper.) No. 18,478; May 25; Gaz. vol. 214; p. 1318.
- Kalamazoo Stationery Co., Kalamazoo, Mich. "Flaxon Linen Fabrie Writing Paper." (For Writing-Paper.) No. 18,479; May 25; Gaz. vol. 214; p. 1318.
- Kalamazoo Stationery Co., Kalamazoo, Mich. "De Luxe Linen Lawn Writing Paper." (For Writing-Paper.) No. 18,480; May 25; Gaz. vol. 214; p. 1318.
- Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich. "Bran Nu Bread." (For Bread.) No. 18,535; June 15; Gaz. vol. 215; p. 976.
- Kamm & Schellinger Brewing Co., The, Mishawaka, Ind. "Premona." (For Beer.) No. 18,176; Jan. 12; Gaz. vol. 210; p. 715.
- Keller Cigar Co., The, Richard A., Chicago, Ill. "King Richard's." (For Cigars.) No. 18,371; Apr. 13; Gaz. vol. 213; p. 747.
- Kellogg Food Company, The, Battle Creek, Mich. "Kellogg's Bran." (For Bran.) No. 18,833; Nov. 2; Gaz. vol. 220; p. 347.
- Kellogg, W. S., Richmond, Va. "Re-Nu-Shine." (For a Cream for Polishing Varnished Surfaces.) No. 18,830; Nov. 2; Gaz. vol. 220; p. 347.
- Kellogg, W. S., Richmond, Va. "Waxbright." (For a Polishing-Wax.) No. 18,831; Nov. 2; Gaz. vol. 220; p. 347.
- Kellogg, W. S., Richmond, Va. "Polishine." (For a Liquid for Polishing Varnished Surfaces.) No. 18,832; Nov. 2; Gaz. vol. 220; p. 347.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. "Kellogg's Toasted Bran Flakes." (For a Bran Food.) No. 18,947; Dec. 28; Gaz. vol. 221; p. 1451.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. "Kellogg's Drinket." (For a Beverage.) No. 18,948; Dec. 28; Gaz. vol. 221; p. 1451.
- Kendall, Burney J., Geneva, Ill. "Dr. B. J. Kendall's Hair Tonic for Diseases of the Hair and Scalp." (For a Preparation for Diseases of the Hair and Scalp.) No. 18,426; May 4; Gaz. vol. 214; p. 342.

Alphabetical list of registrants of labels—Continued.

- Kentucky Carlsbad Springs Co., The, Dry Ridge, Ky. "Kentucky Carlsbad Water." (For Water.) No. 18,291; Mar. 9; Gaz. vol. 212; p. 687.
- Kentucky Tobacco Product Co., Incorporated, The, Louisville, Ky. "Black Leaf 40." (For Nicotin Solution for Insecticides.) No. 18,407; Apr. 27; Gaz. vol. 213; p. 1446.
- Kernola Cereal Co., Bay City, Mich. "Kernola, 'The Food Drink.'" (For a Coffee Substitute.) No. 18,551; June 22; Gaz. vol. 215; p. 1261.
- King Philip Mills, Fall River, Mass. "Cherry Blossom Nainsook." (For Nainsook.) No. 18,373; Apr. 13; Gaz. vol. 213; p. 747.
- King Philip Mills, Fall River, Mass. "Good Nightie." (For Nainsook.) No. 18,481; May 25; Gaz. vol. 214; p. 1318.
- Kirchuebel, Mary E., Camden, N. J. "Klr-Mer." (For a Cleaner.) No. 18,789; Oct. 5; Gaz. vol. 219; p. 268.
- Klein Cigar Company, Danville, Ill. "Road Louse." (For Cigars.) No. 18,697; Aug. 24; Gaz. vol. 217; p. 1339.
- Knickerbocker Chocolate Company, (Inc.) New York, N. Y. "Sportsman's Chocolate Bracer, Sandwich Form." (For Eating-Chocolate.) No. 18,737; Sept. 7; Gaz. vol. 218; p. 319.
- Knight, William W., Denver, Colo. "Orange Manna." (For a Food Product.) No. 18,614; July 27; Gaz. vol. 216; p. 1317.
- Koehler, Otto, New York, N. Y. "Citolene." (For a Medical Application.) No. 18,864; Nov. 16; Gaz. vol. 220; p. 1041.
- Kohl & Herman, Marshfield, Wis. "La Casera." (For Cigars.) No. 18,799; Oct. 12; Gaz. vol. 219; p. 585.
- Krantz Brewing Co., The, Findlay, Ohio. "Old Dutch." (For Beer.) No. 18,340; Apr. 6; Gaz. vol. 213; p. 359.
- Kraus, William, St. Louis, Mo. "Primline." (For Eye-Wash.) No. 18,949; Dec. 28; Gaz. vol. 221; p. 1451.
- Krause & Co., Baltimore, Md. "In-B-Tween." (For Cigars.) No. 18,259; Feb. 23; Gaz. vol. 211; p. 1262.
- Kvasnicka, August, Chicago, Ill. "White Rock Rheumatic Remedy." (For Medicine.) No. 18,738; Sept. 7; Gaz. vol. 218; p. 319.
- L. Frank & Son Company, Milwaukee, Wis. "Frank's Quality Meat-Treats." (For Meat Preparations.) No. 18,767; Sept. 21; Gaz. vol. 218; p. 874.
- Lackland, Frances B., Ridgewood, N. J. "L de V." (For Cologne.) No. 18,213; Feb. 2; Gaz. vol. 211; p. 283.
- Lambert, John B., Woonsocket, R. I. "St. Martin." (For Medicinal Wine.) No. 18,510; June 8; Gaz. vol. 215; p. 665.
- Lastingloss Company, The, Jacksonville, Fla. "Lastingloss." (For Furniture-Polish.) No. 18,263; Feb. 23; Gaz. vol. 211; p. 1262.
- Lato Pharmacal Company, Elizabeth, N. J., and New York, N. Y. "Escharol." (For a Medical Preparation.) No. 18,769; Sept. 21; Gaz. vol. 218; p. 874.
- Lato Pharmacal Company, Elizabeth, N. J., and New York, N. Y. "Phytoform." (For a Tonic.) No. 18,770; Sept. 21; Gaz. vol. 218; p. 874.
- Laurenzi, Luisa, Old Forge, Pa. "Perugia Ointment." (For Ointment.) No. 18,814; Oct. 26; Gaz. vol. 219; p. 1236.
- Laxton, John W. R., Lynn, Mass. "Laxton Constitution Builder for Men." (For Medicine.) No. 18,277; Mar. 2; Gaz. vol. 212; p. 326.
- Laxton, John W. R., Lynn, Mass. "Laxton Constitution Builder for Women." (For Medicine.) No. 18,278; Mar. 2; Gaz. vol. 212; p. 326.
- Leadoil Company Inc., Brooklyn, N. Y. "Leadoil." (For Mediums for Thinning Paste Pigments.) No. 18,806; Oct. 19; Gaz. vol. 219; p. 928.
- Lee & Co., William W., Watervliet and Troy, N. Y. "Lee's Save The Baby." (For a Medicinal Preparation.) No. 18,177; Jan. 12; Gaz. vol. 210; p. 715.
- Lee, G., Chicago, Ill. "French Beautifier—Look Young and Pretty." (For Toilet Preparation.) No. 18,920; Dec. 21; Gaz. vol. 221; p. 1037.
- Lekas and Drivas, New York, N. Y. "Hymette Greek Honey." (For Honey.) No. 18,552; June 22; Gaz. vol. 215; p. 1261.
- Lekas and Drivas, New York, N. Y. "Elendi Brand Coffee." (For Coffee.) No. 18,553; June 22; Gaz. vol. 215; p. 1261.
- Lenci Bros., Brooklyn, N. Y. "Italian Produce Tomatoes." (For Peeled Tomatoes.) No. 18,834; Nov. 2; Gaz. vol. 220; p. 347.
- Lime-Kola Co., Culpeper, Va. "A Healthful Drink." (For a Beverage.) No. 18,795; Oct. 5; Gaz. vol. 219; p. 268.
- Lincoln Highway Association, The, Detroit, Mich. "Lincoln Highway Sign." (For Signs.) No. 18,374; Apr. 13; Gaz. vol. 213; p. 747.
- Lincoln, W. A., Dayton, Ohio. "Lincoln Ointment." (For Ointment.) No. 18,758; Sept. 14; Gaz. vol. 218; p. 601.
- Linde Air Products Company, The, New York, N. Y. "Linde Oxygen." (For Oxygen Gas.) No. 18,178; Jan. 12; Gaz. vol. 210; p. 715.
- Lindner, Geo. F., Lancaster, Cal. "Lindner's Honey Wheat Bread." (For Bread.) No. 18,645; Aug. 3; Gaz. vol. 217; p. 338.
- Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's Tea." (For Tea.) No. 18,646; Aug. 3; Gaz. vol. 217; p. 338.
- Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's Best Cocoa." (For Cocoa.) No. 18,647; Aug. 3; Gaz. vol. 217; p. 338.
- Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's Tea." (For Tea.) Nos. 18,648-50; Aug. 3; Gaz. vol. 217; p. 338.
- Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's Yellow Label Coffee." (For Coffee.) No. 18,651; Aug. 3; Gaz. vol. 217; p. 338.
- Loeffel, Charles, Milwaukee, Wis. "Cyana." (For Cigars.) No. 18,698; Aug. 24; Gaz. vol. 217; p. 1339.
- Loewenberg, Martin, New York, N. Y. "Golo Camel Hair Slippers." (For Slippers.) No. 18,699; Aug. 24; Gaz. vol. 217; p. 1339.
- Lohelde Manufacturing Company, St. Louis, Mo. "Fan Tan." (For a Popcorn Confection.) No. 18,179; Jan. 12; Gaz. vol. 210; p. 715.
- Lohelde Manufacturing Company, St. Louis, Mo. "Fan Tan." (For Roasted Salted Peanuts.) No. 18,310; Mar. 16; Gaz. vol. 212; p. 1056.
- Lohelde Manufacturing Company, St. Louis, Mo. "Fan Tan." (For Assorted Candies.) No. 18,315; Mar. 30; Gaz. vol. 212; p. 1688.
- Lomauro, Frank R., Passaic, N. J. "Lomauro's Universal Salve." (For a Salve.) No. 18,292; Mar. 9; Gaz. vol. 212; p. 687.
- Long Beach Tuna Packing Co., Long Beach, Cal. "Blue Ribbon Tuna." (For Canned Tuna.) No. 18,658; Aug. 10; Gaz. vol. 217; p. 698.
- Lorenz Bros. Macaroni Co., Milwaukee, Wis. "White Pearl Brand." (For Macaroni.) No. 18,389; Apr. 20; Gaz. vol. 213; p. 1116.
- Lott, Alex, Seminary, Miss. "Mr. Dooley Brand Sweet Potatoes." (For Canned Sweet Potatoes.) No. 18,238; Feb. 9; Gaz. vol. 211; p. 640.
- Lott, Alex, Seminary, Miss. "Dooley Brand Sweet Potatoes." (For Sweet Potatoes.) No. 18,591; July 13; Gaz. vol. 216; p. 662.
- Lotz, Frederick W., Philadelphia, Pa. "Lotz's Shanklessham." (For Ham.) No. 18,408; Apr. 27; Gaz. vol. 213; p. 1445.
- Louisiana Strawberry Distributing Company, Inc., New Orleans, La. "Janet Brand." (For Strawberries.) No. 18,807; Oct. 19; Gaz. vol. 219; p. 928.
- Louisiana Strawberry Distributing Company, Inc., New Orleans, La. "John Brand." (For Strawberries.) No. 18,835; Nov. 2; Gaz. vol. 220; p. 347.
- Lundgren, Robert, New York, N. Y. "Nu-Lax." (For Medicine.) No. 18,740; Sept. 7; Gaz. vol. 218; p. 319.
- Lynchburg Bottling Corp., Lynchburg, Va. "Golden (H. A. J.) Crown Ginger Ale." (For Ginger-Ale.) No. 18,180; Jan. 12; Gaz. vol. 210; p. 715.
- M. Wollstein Mercantile Co., Kansas City, Mo. "Ambassador." (For Whisky.) No. 18,284; Mar. 2; Gaz. vol. 212; p. 326.
- Mable, Lena, Binghamton, N. Y. "Mable Wonder Salve." (For Salve.) No. 18,181; Jan. 12; Gaz. vol. 210; p. 715.
- MacGrath, Marian M., Philadelphia, Pa. "Marian's Burnt Olive Oil Candy." (For a Medicinal Preparation.) No. 18,293; Mar. 9; Gaz. vol. 212; p. 687.
- MacIntyre, Malcolm, Glasgow, Scotland. "Royal Northern Cream." (For Whisky.) No. 18,182; Jan. 12; Gaz. vol. 210; p. 715.
- Mack Mahon, John, Buffalo, N. Y. "Menthol-Eaze." (For Salve.) No. 18,604; July 20; Gaz. vol. 216; p. 1011.
- Mahon-Stoltz Company, Ottumwa, Iowa. "Stimulo." (For Coffee.) No. 18,427; May 4; Gaz. vol. 214; p. 342.
- Major, Samuel T., St. Louis, Mo. "The Major Blend 'Day Dream.'" (For Roasted Coffee.) No. 18,652; Aug. 3; Gaz. vol. 217; p. 338.
- Major, Samuel T., St. Louis, Mo. "The Major Blend's, 'Our Matchless.'" (For Roasted Coffee.) No. 18,741; Sept. 7; Gaz. vol. 218; p. 319.
- Mally & Schattenberg, Crystal City, Tex. "Dose Record Label." (For Drugs.) No. 18,482; May 25; Gaz. vol. 214; p. 1318.
- Manchik, Morris. (See Walsh and Manchik.)
- Marcelas Juniper Company, The, Chicago, Ill. "Marcelas Juniper Salve." (For Salve.) No. 18,554; June 22; Gaz. vol. 215; p. 1261.
- Marshel, Blaine M., New Albany, Ind. "Marshels Intense Black Ink." (For Ink.) No. 18,742; Sept. 7; Gaz. vol. 218; p. 319.
- Martorelli, Raffaele, New York, N. Y. "Ilcacciatore Brand Gragnano Style Macaroni." (For Macaroni.) No. 18,836; Nov. 2; Gaz. vol. 220; p. 347.
- Marty & Co., F., Syracuse, N. Y. "Pontifical Brand." (For Candles.) No. 18,700; Aug. 24; Gaz. vol. 217; p. 1339.
- Master Roofers Association of Chicago, Chicago, Ill. "Master Brand Pitch." (For Pitch.) No. 18,536; June 15; Gaz. vol. 215; p. 976.
- Master Roofers Association of Chicago, Chicago, Ill. "Master Brand Tarred Felt." (For Tarred Felt.) No. 18,537; June 15; Gaz. vol. 215; p. 976.
- Master Roofers Association of Chicago, Chicago, Ill. "Master Brand Flux." (For Flux.) No. 18,538; June 15; Gaz. vol. 215; p. 976.

- Matchless Metal Polish Co., The, Chicago, Ill. "XXX White Diamond Buffing & Polishing." (For an Abrasive Composition.) No. 18,311; Mar. 16; Gaz. vol. 212; p. 1056.
- Matson Coffee Co., Salt Lake City, Utah. "Hotel Utah brand." (For Coffee.) No. 18,483; May 25; Gaz. vol. 214; p. 1318.
- Matson Coffee Company, Salt Lake City, Utah. "Mountain Home Brand." (For Coffee.) No. 18,428; May 4; Gaz. vol. 214; p. 342.
- Matson Coffee Company, Salt Lake City, Utah. "Tavern Brand." (For Coffee.) No. 18,572; June 29; Gaz. vol. 215; p. 1497.
- Mayer & Company, Theodore, Chicago, Ill. "Mayco Fabrics." (For Fabrics.) No. 18,615; July 27; Gaz. vol. 216; p. 1317.
- Maynard and Company, W. C., Newport, Oreg. "The Bergmann Guaranteed Water Proof Shoe Oil." (For Shoe Oil.) No. 18,313; Mar. 23; Gaz. vol. 212; p. 1355.
- McBrady, John E., Chicago, Ill. "McBrady's Brown Baby Soap." (For a Toilet Soap.) No. 18,183; Jan. 12; Gaz. vol. 210; p. 715.
- McBride, Earl & Pollard, Detroit, Mich. "Lactic Dry Ginger Ale." (For Ginger-Ale.) No. 18,701; Aug. 24; Gaz. vol. 217; p. 1339.
- McCaffrey-Hewitt Paint Co., Chicago, Ill. "Mir-Tile White Enamel." (For White Enamel.) No. 18,573; June 29; Gaz. vol. 215; p. 1497.
- McCarthy, Brothers, San Francisco, Cal. "American Beauty." (For Tea.) No. 18,247; Feb. 9; Gaz. vol. 211; p. 640.
- McClure & Co., New York, N. Y. "Wunder Wear, The Hose For All Time." (For Hosiery.) No. 18,214; Feb. 2; Gaz. vol. 211; p. 283.
- McConnell & Vesper Cigar Company, Springfield, Ohio. "La Flor De Benton, U. S. Senator from Missouri, 1821 to 1851, Havana and Broad Leaf Cigar." (For Cigars.) No. 18,922; Dec. 21; Gaz. vol. 221; p. 1037.
- McMahon Bros., Pittsfield, Mass. "McMahon's Diamond Health Bread." (For Bread.) No. 18,800; Oct. 12; Gaz. vol. 219; p. 585.
- Mechanical Rubber Company, The, Jersey City, N. J.; New York, N. Y., and Cleveland, Ohio. "Meruco." (For Friction-Tape.) No. 18,264; Feb. 23; Gaz. vol. 211; p. 1262.
- Metropolitan Macaroni Manufacturing Co., Inc., Brooklyn, N. Y. "Metropolitan Macaroni." (For Macaroni.) No. 18,923; Dec. 21; Gaz. vol. 221; p. 1037.
- Michelson, William, New York, N. Y. "Allasch Doppelt Kummel." (For Cordial.) No. 18,215; Feb. 2; Gaz. vol. 211; p. 283.
- Michelson, William, New York, N. Y. "Liqueur Supérieure." (For Liqueurs.) No. 18,343; Apr. 6; Gaz. vol. 213; p. 359.
- Miller Manufacturing Company, The, Springfield, Mass. "Cabinet Brand." (For Vanilla Extract.) No. 18,885; Nov. 30; Gaz. vol. 220; p. 1717.
- Miller, Solomon S., Reading, Pa. "The 'Penny Saver' Sock." (For Socks.) No. 18,260; Feb. 23; Gaz. vol. 211; p. 1262.
- Miller, Solomon S., Reading, Pa. "The Miller Hose." (For Hose.) No. 18,344; Apr. 6; Gaz. vol. 213; p. 359.
- Mills Novelty Company, Chicago, Ill. "Rosemint." (For a Candy Confection.) No. 18,409; Apr. 27; Gaz. vol. 213; p. 1445.
- Milnes, James R., Denver, Colo. "Clean-O." (For a Cleaning Compound.) No. 18,375; Apr. 13; Gaz. vol. 213; p. 747.
- Milwaukee-Waukesha Brewing Co., Milwaukee, Wis. "Olde Browne Health Beer." (For Beer.) No. 18,539; June 15; Gaz. vol. 215; p. 976.
- Mint-Malt Corporation, New York, N. Y. "Mint-Malt." (For a Syrupy Liquid Containing Malt and Mint.) No. 18,410; Apr. 27; Gaz. vol. 213; p. 1445.
- Mint Products Company, Incorporated, New York, N. Y. "Aut-O-Mint, A Dainty Confection." (For Lozenges.) No. 18,467; May 18; Gaz. vol. 214; p. 1024.
- Mint Products Company, Incorporated, New York, N. Y. "Pep-O-Mint Life Savers, A Dainty Confection." (For Lozenges of Peppermint Flavor.) No. 18,484; May 25; Gaz. vol. 214; p. 1318.
- Mint Products Company, Incorporated, New York, N. Y. "Cl-O-Ve Life Savers, A Dainty Confection." (For Lozenges of Clove Flavor.) No. 18,485; May 25; Gaz. vol. 214; p. 1318.
- Mint Products Company, Incorporated, New York, N. Y. "Wint-O-Green Life Savers, A Dainty Confection." (For Lozenges of Wintergreen Flavor.) No. 18,486; May 25; Gaz. vol. 214; p. 1318.
- Mitchell, Lewis A., Marietta, Ohio. "City Pride." (For Stogies.) No. 18,605; July 20; Gaz. vol. 216; p. 1011.
- Mitrovich, Adolph, San Antonio, Tex. "Salsa Diablo." (For a Table Condiment.) No. 18,950; Dec. 28; Gaz. vol. 221; p. 1451.
- Moffatt, Joseph, Los Angeles, Cal. "Moffatt's Pure California Honey." (For Honey.) No. 18,411; Apr. 27; Gaz. vol. 213; p. 1445.
- Moehle Lithographic Company, The, New York, N. Y. "Our Club." (For Cigars.) No. 18,498; June 1; Gaz. vol. 215; p. 322.
- Moehle Lithographic Company, The, New York, N. Y. "Walton Arms." (For Cigars.) No. 18,499; June 1; Gaz. vol. 215; p. 322.
- Moehle Lithographic Company, The, New York, N. Y. "Medal Bond." (For Cigars.) No. 18,500; June 1; Gaz. vol. 215; p. 322.
- Moehle Lithographic Company, The, New York, N. Y. "Stuart Arms." (For Cigars.) No. 18,501; June 1; Gaz. vol. 215; p. 322.
- Moehle Lithographic Co., The, New York, N. Y. "Bouquet de Habana." (For Cigars.) No. 18,540; June 15; Gaz. vol. 215; p. 976.
- Montague, Julia C., Philadelphia, Pa. "MontaguMello." (For Confectionery Coating.) No. 18,468; May 18; Gaz. vol. 214; p. 1024.
- Moore, Walter C., St. Louis, Mo. "Jitney Jems." (For Popcorn.) No. 18,924; Dec. 21; Gaz. vol. 221; p. 1037.
- Morgan, Ralph W., Buffalo, N. Y. "Uz-It." (For a Medicinal Preparation.) No. 18,574; June 29; Gaz. vol. 215; p. 1497.
- Morgan, Ralph W., Buffalo, N. Y. "Usit." (For a Medicinal Preparation.) No. 18,865; Nov. 16; Gaz. vol. 220; p. 1041.
- Murrey & Powers, San Francisco, Cal. "Ziska." (For a Hair-Solvent.) No. 18,511; June 8; Gaz. vol. 215; p. 665.
- Morrison, George C., Toledo, Ohio. "Coffee." (For Coffee.) Nos. 18,412-15; Apr. 27; Gaz. vol. 213; p. 1445.
- Mt. Vernon Cream Co., Mount Vernon and Seattle, Wash. "Mt. Vernon." (For Evaporated Milk.) No. 18,312; Mar. 16; Gaz. vol. 212; p. 1056.
- Murphy, James, Wichita, Kans. "Sasnak." (For Tobacco Cigars.) No. 18,743; Sept. 7; Gaz. vol. 218; p. 319.
- Murrey & Ridgeway, Los Angeles, Cal. "Kara." (For a Depilatory.) No. 18,809; Oct. 26; Gaz. vol. 219; p. 1236.
- Myers, Henry R., Covington, Ky. "Joy." (For a Beverage.) No. 18,487; May 25; Gaz. vol. 214; p. 1318.
- Naas-Sanderson Co., Evansville, Ind. "Joy-Sip Coffee." (For Coffee.) No. 18,874; Nov. 23; Gaz. vol. 220; p. 1372.
- Naas-Sanderson Co., Evansville, Ind. "Dixie B Line Coffee." (For Coffee.) No. 18,875; Nov. 23; Gaz. vol. 220; p. 1372.
- Nafziger, Ralph L., Kansas City, Mo. "Butter-Cream Bread." (For Bread.) No. 18,801; Oct. 12; Gaz. vol. 219; p. 585.
- Napoleon, Louis, Pittsburgh, Pa. "Napoleon Special." (For Whisky.) No. 18,184; Jan. 12; Gaz. vol. 210; p. 715.
- Napoli, Carmine, Philadelphia, Pa. "Rosina." (For Medicine.) No. 18,294; Mar. 9; Gaz. vol. 212; p. 687.
- Nantha Starch Enamel Company, Wellsville, N. Y. "Sack White Junior." (For a Composition for Cleaning Leather and Canvas Shoes.) No. 18,837; Nov. 2; Gaz. vol. 220; p. 347.
- National Bedding Co., Leavenworth, Kans. "Cotton Queen." (For Mattresses.) No. 18,502; June 1; Gaz. vol. 215; p. 322.
- National Board of Censorship of Motion Pictures, The, New York, N. Y. "Passed by The National Board of Censors." (For Motion-Picture Films.) No. 18,265; Feb. 23; Gaz. vol. 211; p. 1262.
- National Board of Censorship, The, New York, N. Y. "Passed by The National Board of Censorship." (For Motion-Picture Films.) No. 18,866; Nov. 16; Gaz. vol. 220; p. 1041.
- National Chemical Company, The, New Haven, Conn. "Nacco." (For Cleaning Compounds, Disinfectants, and Vermin-Exterminators.) No. 18,744; Sept. 7; Gaz. vol. 218; p. 319.
- National Fruit Products Company of California, Los Angeles, Cal. "Ulka Raisinette." (For Unfermented and Non-Alcoholic Raisin-Juice.) No. 18,295; Mar. 9; Gaz. vol. 212; p. 687.
- National Hog Cholera Remedy Company, The, Wildwood, N. J. "The National Cholera Remedy." (For a Remedy for Hog-Cholera.) No. 18,802; Oct. 12; Gaz. vol. 219; p. 585.
- National Table Waters Co., Wilmington, Del. "Klamensl Spring Water." (For Spring-Water.) No. 18,450; May 11; Gaz. vol. 214; p. 681.
- Nelson, N. F., Milbank, S. D. "Yellowstone Trail." (For Cigars.) No. 18,624; July 27; Gaz. vol. 216; p. 1317.
- New Chicago Specialty Company, New Chicago, Ind. "Building Blocks." (For Toy Building-Blocks.) No. 18,185; Jan. 12; Gaz. vol. 210; p. 715.
- New England Collapsible Tube Company, The, New London, Conn. "Sheffield Pure Tin Tubes." (For Tin Tubes.) No. 18,702; Aug. 24; Gaz. vol. 217; p. 1339.
- New England Laboratory Co., Lynn, Mass. "Burrill's Tooth Powder." (For Tooth-Powder.) No. 18,503; June 1; Gaz. vol. 215; p. 322.
- New England Laboratory Co., Lynn, Mass. "Burrill's Tooth Paste." (For Tooth-Paste.) No. 18,667; Aug. 17; Gaz. vol. 217; p. 1053.
- New England Laboratory Co., Lynn, Mass. "Aleppo Cold Cream." (For Cold-Cream.) No. 18,703; Aug. 24; Gaz. vol. 217; p. 1339.

Alphabetical list of registrants of labels—Continued.

- New Era Novelty Co., Inc., New York, N. Y. "The New Era Doll." (For Dolls and other Toys Made of Plastic Composition.) No. 18,345; Apr. 6; Gaz. vol. 213; p. 359.
- Newbold & Bradley, Bluefield, W. Va. "Newbold & Bradley Laxative Capsules Bluefield, W. Va." (For Medicine in Capsule Form.) No. 18,429; May 4; Gaz. vol. 214; p. 342.
- Niagara Chocolate Company, The, Niagara Falls, N. Y. "Falls 'Fork-Dipped Chocolates.'" (For Chocolate Candy.) No. 18,416; Apr. 27; Gaz. vol. 213; p. 1445.
- Nicholas, George H., New York, N. Y. "Perfect Ventilating Shirt." (For Shirts.) No. 18,376; Apr. 13; Gaz. vol. 213; p. 747.
- Niedzwiecki, B. W., Nedman, Troy, N. Y. "Suffer No More for the 'Rattler' Remedy Will Relieve Pain in 3 Minutes." (For Liniment.) No. 18,951; July 27; Gaz. vol. 216; p. 1317.
- Normandin, Edmond, Woonsocket, R. I. "Cane-Maple Syrup." (For Cane-Maple Syrup.) No. 18,555; June 22; Gaz. vol. 215; p. 1261.
- Northwest Fruit Products Co., Salem, Oreg. "Old Man Oregon." (For Loganberry-Juice.) No. 18,951; Dec. 28; Gaz. vol. 221; p. 1451.
- Norton Company, Worcester, Mass. "Crystolon." (For Grinding-Wheels.) No. 18,791; Oct. 5; Gaz. vol. 219; p. 268.
- Norton Company, Worcester, Mass. "Alundum." (For Grinding-Wheels.) No. 18,792; Oct. 5; Gaz. vol. 219; p. 268.
- Nuubson Baking Company, The, Duluth, Minn. "Diamond Crisp Wafers." (For Flat Bread.) No. 18,556; June 22; Gaz. vol. 215; p. 1261.
- Nye, Firm of Harry W., and M. J. Ebersole, Paxtang, Pa. "Quick Liquid Automobile Polish." (For Liquid Automobile-Polish.) No. 18,668; Aug. 17; Gaz. vol. 217; p. 1053.
- O. C. Orr Baking Company, New Castle, Pa. "Orr's Excellent Cakes." (For Cakes.) No. 18,296; Mar. 9; Gaz. vol. 212; p. 687.
- Oceana Canning Co., Shelby, Mich. "Cupid." (For Packages Containing Pork and Beans.) No. 18,346; Apr. 6; Gaz. vol. 213; p. 359.
- Odor Cigar Co., Carthage, Mo. "Red Ball." (For Cigars.) No. 18,925; Dec. 21; Gaz. vol. 221; p. 1037.
- Olarsky, Morris, New York, N. Y. "Queen Skirt Co." (For Ladies' Skirts.) No. 18,669; Aug. 17; Gaz. vol. 217; p. 1053.
- Old Dutch Mustard Co., Brooklyn, N. Y. "Old Dutch Prepared Mustard, Grandfathers Brand." (For Mustard.) No. 18,717; Aug. 31; Gaz. vol. 217; p. 1659.
- Olympia Brewing Company, Olympia, Wash. "Frju." (For Fruit Beverages.) No. 18,719; Aug. 31; Gaz. vol. 217; p. 1659.
- Orchard Chemical Co., Pittsburgh, Pa. "Kling Move-eas." (For Laxative and Cathartic Tablets.) No. 18,848; Nov. 9; Gaz. vol. 220; p. 676.
- Orsinger, Louis V., La Salle, Ill. "Twinbred." (For Bread.) No. 18,653; Aug. 3; Gaz. vol. 217; p. 338.
- Osteyee, Fred M., Pittsfield, Mass. "G-R-S Orange XXXX made from Berkshire's Famous Springs." (For an Orange-Flavored Drink.) No. 18,297; Mar. 9; Gaz. vol. 212; p. 687.
- P. D. Beckwith Inc., Estate, Dowagiac, Mich. "Round Oak Moistair Heating System." (For Heating Systems.) No. 18,363; Apr. 13; Gaz. vol. 213; p. 747.
- Pacific Coast Borax Company, Reno, Nev., and Oakland, Cal. "Universal Borax Cleanser." (For a Cleanser.) No. 18,186; Jan. 12; Gaz. vol. 210; p. 715.
- Pagano, Santo, Philadelphia, Pa. "Karine." (For Medicine.) No. 18,187; Jan. 12; Gaz. vol. 210; p. 715.
- Page, Leonard G., St. Joseph, Mo. "True Blue." (For Coffee.) No. 18,876; Nov. 23; Gaz. vol. 220; p. 1372.
- Palazzolo, Joseph, New York, N. Y. "Dianella." (For Razors.) No. 18,670; Aug. 17; Gaz. vol. 217; p. 1053.
- Pamies & Arango, St. Augustine, Fla. "Reo." (For Cigars.) No. 18,606; July 20; Gaz. vol. 216; p. 1011.
- Pantini, Humbert, New York, N. Y. "Pan-in." (For Skin-Cream.) No. 18,216; Feb. 2; Gaz. vol. 211; p. 283.
- Parker, George W., Bangor, Me. "The Parker Violins." (For Violins.) No. 18,839; Nov. 2; Gaz. vol. 220; p. 347.
- Patton Paint Company, Milwaukee, Wis., and Newark, N. J. "Sun-Proof Paints." (For Paints.) Nos. 18,626-33; July 27; Gaz. vol. 216; p. 1317.
- Patton Paint Company, Milwaukee, Wis., and Newark, N. J. "Sun-Proof Paints." (For Paints.) Nos. 18,704-9; Aug. 24; Gaz. vol. 217; p. 1339.
- Paulson Medicinal Well Co., Saratoga, Wyo. "Aquatone The Water-Way To Health." (For Mineral Water.) No. 18,279; Mar. 2; Gaz. vol. 212; p. 326.
- Paulson, Oscar, Rochester, Minn. "Diamond B." (For Cigars.) No. 18,417; Apr. 27; Gaz. vol. 213; p. 1445.
- Peabody, A. W., Thomaston, Me. "Musterking." (For a Medicinal Preparation.) No. 18,745; Sept. 7; Gaz. vol. 218; p. 319.
- Peet Bros. Mfg. Co., Kansas City, Kans. "Sea Foam." (For a Washing-Powder.) No. 18,431; May 4; Gaz. vol. 214; p. 342.
- Pennsylvania Chocolate Company, Pittsburgh, Pa. "Votes for Women." (For Chocolate and Confectionery.) No. 18,347; Apr. 6; Gaz. vol. 213; p. 359.
- Pepto-Prune-Lax Co., Chicago, Ill. "Pepto-Prune-Lax." (For a Laxative.) No. 18,377; Apr. 13; Gaz. vol. 213; p. 747.
- Perin Inc., New York, N. Y. "Perin." (For Cold-Cream.) No. 18,849; Nov. 9; Gaz. vol. 220; p. 676.
- Peters, M. W., Battle Creek, Mich. "Verno (compound) an Antiseptic Germicide for the Treatment of Salt-Rheum, Scrofula, Eczema, and Blood Poisoning." (For Bottles, Boxes, and Packages of Medicine.) No. 18,348; Apr. 6; Gaz. vol. 213; p. 359.
- Petroleum Products Company, San Francisco, Cal. "National Motor Naphtha." (For Motor-Naphtha.) No. 18,451; May 11; Gaz. vol. 214; p. 681.
- Petroleum Products Company, San Francisco, Cal. "National Benzine—The Ideal Motor Spirit." (For Benzene.) No. 18,452; May 11; Gaz. vol. 214; p. 681.
- Phy-to-lax Company, Paterson, N. J. "Phy-to-lax." (For Cereals.) No. 18,432; May 4; Gaz. vol. 214; p. 342.
- Piedmont-Bedford Springs Company, Amherst county, Va. "Iron and Alum Mass Capsules." (For a Medicinal Preparation.) No. 18,654; Aug. 3; Gaz. vol. 217; p. 338.
- Pines Bros., Portland, Me. "P. B." (For Cigars.) No. 18,671; Aug. 17; Gaz. vol. 217; p. 1053.
- Pitcairn Varnish Company, Newark, N. J., and Milwaukee, Wis. "Pitcairn Varnish." (For Varnish.) No. 18,867; Nov. 16; Gaz. vol. 220; p. 1041.
- Platt & Washburn Refining Company, New York, N. Y. "Veedol." (For Lubricating-Oils.) No. 18,926; Dec. 21; Gaz. vol. 221; p. 1037.
- Praitano, Anthony J., New York, N. Y. "Scalp Balm." (For a Hair-Tonic.) No. 18,746; Sept. 7; Gaz. vol. 218; p. 319.
- Pratt Bottling Co., Florence, Ala. "Old Glory Extra Fine Ginger Ale, colored." (For Ginger-Ale.) No. 18,266; Feb. 23; Gaz. vol. 211; p. 1262.
- Prentiss, John A., Cashmere, Wash. "Cascade." (For Apples.) No. 18,952; Dec. 28; Gaz. vol. 221; p. 1451.
- President Suspender Company, Shirley, Mass. "President Suspenders." (For Suspenders.) No. 18,672; Aug. 17; Gaz. vol. 217; p. 1053.
- Quinlan, John H., Jr., Newburgh, N. Y. "Oyama." (For Plant-Food, Fertilizer.) No. 18,592; July 13; Gaz. vol. 216; p. 662.
- R. Seumenicht Inc., Scranton, Pa. "Solosekt The Quality Drink, Non Alcoholic." (For a Non-Alcoholic Beverage.) No. 18,200; Jan. 19; Gaz. vol. 210; p. 1063.
- R. Seumenicht Inc., Scranton, Pa. "Solosekt The Quality Drink." (For a Beverage.) No. 18,221; Feb. 2; Gaz. vol. 211; p. 283.
- R. F. Johnston Paint Co., The, Cincinnati, Ohio. "Scotch Lacquer." (For Scotch Lacquer.) No. 18,258; Feb. 23; Gaz. vol. 211; p. 1262.
- R. F. Johnston Paint Co., The, Cincinnati, Ohio. "Turkey Red." (For Paint.) No. 18,829; Nov. 2; Gaz. vol. 220; p. 347.
- R. F. Johnston Paint Co., The, Cincinnati, Ohio. "Kant-leak." (For a Roof-Cement.) No. 18,884; Nov. 30; Gaz. vol. 220; p. 1717.
- R. F. Johnston Paint Co., The, Cincinnati, Ohio. "Dull Kote." (For Paint.) No. 18,902; Dec. 14; Gaz. vol. 221; p. 735.
- Randall Brothers Company, Tacoma, Wash., and Alhambra, Cal. "Randall Bros. Liniment." (For a Liniment.) No. 18,793; Oct. 5; Gaz. vol. 219; p. 268.
- Randle Machinery Company, The, Cincinnati, Ohio. "For Modern Improvement the Leader leads them all." (For Injectors.) No. 18,897; Dec. 7; Gaz. vol. 221; p. 349.
- Randle Machinery Company, The, Cincinnati, Ohio. "The Leader Injector." (For Injectors.) No. 18,927; Dec. 21; Gaz. vol. 221; p. 1037.
- Ralston Purina Company, St. Louis, Mo. "Purina Bran Bread." (For Bran-Bread.) No. 18,771; Sept. 21; Gaz. vol. 218; p. 874.
- Ransom, J. M., Louisiana, Mo. "Louisiana Commerce." (For Cigars.) No. 18,634; July 27; Gaz. vol. 216; p. 1317.
- Rawson, Lorin A., administrator. (See Andrews, Frank.)
- Regenfuss Brewing Co., Kaukauna, Wis. "Muenchener Kind'l Bräu." (For Beer.) No. 18,314; Mar. 23; Gaz. vol. 212; p. 1355.
- Reliance Mfg. Company, Rock Stream, N. Y. "Pure Standard Baking Powder." (For Baking-Powder.) No. 18,673; Aug. 17; Gaz. vol. 217; p. 1053.
- Renz, William A., Ottawa, Ill. "Beatsall Hair Tonic." (For Hair-Tonic.) No. 18,583; July 6; Gaz. vol. 216; p. 326.
- Reymer & Brothers Incorporated, Pittsburgh, Pa. "William Penn." (For Confections.) No. 18,886; Nov. 30; Gaz. vol. 220; p. 1717.
- Reynolds & Son, Houston, Tex. "Reynolds Cream Metal Polish." (For Metal-Polish.) No. 18,584; July 6; Gaz. vol. 216; p. 326.
- Reznik, Isser, New York, N. Y. "Royal Muslin." (For Muslins.) No. 18,217; Feb. 2; Gaz. vol. 211; p. 283.
- Rheinstrom Bros., Cincinnati, Ohio. "Merry Moment Cocktail." (For Cocktails.) No. 18,349; Apr. 6; Gaz. vol. 213; p. 359.
- Rheinstrom Bros., Cincinnati, Ohio. "Rosebud Cherries." (For Cherries.) No. 18,887; Nov. 30; Gaz. vol. 220; p. 1717.

- Rheinstrom Bros., Cincinnati, Ohio. "Rosebud Assorted Glace Fruits." (For Assorted Glace Fruits.) No. 18,888; Nov. 30; Gaz. vol. 220; p. 1717.
- Ric Rac Company, The, Canonsburg, Pa. "Ric Rac, The Candied Food." (For Candy.) No. 18,747; Sept. 7; Gaz. vol. 218; p. 319.
- Richards, Mary J., Coatesville, Pa. "R Cough Medicine." (For Cough Medicine.) No. 18,218; Feb. 2; Gaz. vol. 211; p. 283.
- Richie, Georgia W., New York, N. Y. "Cream Of Pearls." (For Face-Cream.) No. 18,280; Mar. 2; Gaz. vol. 212; p. 326.
- Robinson Company, The, Pittsburgh, Pa. "Sock Surecure Cold." (For a Medicinal Preparation.) No. 18,541; June 15; Gaz. vol. 215; p. 976.
- Rodriguez, Manuel, New York, N. Y. "Manuel Rodriguez." (For Cigars.) No. 18,350; Apr. 6; Gaz. vol. 213; p. 359.
- Rohm, Harry, Richmond, Va. "Cry-No-More." (For Paste.) No. 18,711; Aug. 24; Gaz. vol. 217; p. 1339.
- Roland Co., The, Seattle, Wash. "Falfaine." (For Flavoring.) No. 18,433; May 4; Gaz. vol. 214; p. 342.
- Romano & Co., A. A., Rochester, N. Y. "Amaro Romano." (For a Tonic.) No. 18,453; May 11; Gaz. vol. 214; p. 681.
- Rosedor Cigarette Co., New York, N. Y. "Imperial Crown." (For Cigarettes.) No. 18,219; Feb. 2; Gaz. vol. 211; p. 283.
- Rosedor Cigarette Co., New York, N. Y. "Salome." (For Cigarettes.) No. 18,748; Sept. 7; Gaz. vol. 218; p. 319.
- Rosedor Cigarette Co., New York, N. Y. "Ivanoff." (For Cigarettes.) No. 18,868; Nov. 16; Gaz. vol. 220; p. 1041.
- Rosenberg, J. J. & A., New York, N. Y. "Comet." (For Silk, Cotton, and Linen Threads.) No. 18,869; Nov. 16; Gaz. vol. 220; p. 1041.
- Ross Food Co., Inc., The, Williamsville and Batavia, N. Y. "Ross's Whole Wheat Biscuit." (For Whole Wheat Biscuit.) No. 18,841; Nov. 2; Gaz. vol. 220; p. 347.
- Royal Fruit Salt Co., Los Angeles, Cal. "Royal Fruit Salt." (For a Derivative Compound.) No. 18,239; Feb. 9; Gaz. vol. 211; p. 640.
- Ruy Suarez & Co., New York, N. Y. "El Planco." (For Cigars.) No. 18,842; Nov. 2; Gaz. vol. 220; p. 347.
- Ryan, John F., Flushing, N. Y. "Iro-Tone." (For Medicine.) No. 18,188; Jan. 12; Gaz. vol. 210; p. 715.
- S. S. White Dental Manufacturing Company, The, Philadelphia, Pa. "S. S. White Cleansing Powder." (For a Cleansing-Powder.) No. 18,283; Mar. 2; Gaz. vol. 212; p. 326.
- S. S. White Dental Manufacturing Company, The, Philadelphia, Pa. "S. S. White Shaving Cream." (For Shaving-Cream.) No. 18,682; Aug. 17; Gaz. vol. 217; p. 1053.
- S. S. White Dental Mfg. Co., The, Philadelphia, Pa. "Violet Talcum Powder." (For Violet Talcum Powder.) No. 18,455; May 11; Gaz. vol. 214; p. 681.
- S. S. White Dental Mfg. Co., The, Philadelphia, Pa. "The S. S. White Tooth Brush." (For a Tooth-Brush.) No. 18,456; May 11; Gaz. vol. 214; p. 681.
- S. S. White Dental Mfg. Co., The, Philadelphia, Pa. "The S. S. White Tooth Brush." (For Tooth-Brushes.) No. 18,457; May 11; Gaz. vol. 214; p. 681.
- S. S. White Dental Mfg. Co., The, Philadelphia, Pa. "Almond Cream." (For Almond Cream.) No. 18,458; May 11; Gaz. vol. 214; p. 681.
- S. S. White Dental Mfg. Co., The, Philadelphia, Pa. "S. S. White Tooth Paste." (For Tooth-Paste.) No. 18,459; May 11; Gaz. vol. 214; p. 681.
- Salant & Salant, New York, N. Y. "U By 2." (For Shirts.) No. 18,199; Jan. 19; Gaz. vol. 210; p. 1063.
- Sandbach, E. E., Jersey City, N. J. "Havanol." (For Tobacco-Flavor.) No. 18,240; Feb. 9; Gaz. vol. 211; p. 640.
- Sap & Co., Jacob, Akron, Ohio. "Klernup—The Perfect Cleaner." (For a Cleanser.) No. 18,418; Apr. 27; Gaz. vol. 213; p. 1445.
- Sarnecki, Bronislaw, Detroit, Mich. "Wino Gorzkie." (For Wine.) No. 18,241; Feb. 9; Gaz. vol. 211; p. 640.
- Schoeneman, J., Baltimore, Md. "King Kool Klothes." (For Clothing.) No. 18,674; Aug. 17; Gaz. vol. 217; p. 1053.
- Schulze, Paul, Chicago, Ill. "Butter-Nut Bread." (For Bread.) No. 18,419; Apr. 27; Gaz. vol. 213; p. 1445.
- Schulze, Paul, Chicago, Ill. "Big-Dandy Bread." (For Bread.) No. 18,488; May 25; Gaz. vol. 214; p. 1318.
- Schwartz, Jos., Cleveland, Ohio. "Tail Enders." (For Cigars.) No. 18,635; July 27; Gaz. vol. 216; p. 1317.
- Schwarz, Frederick, New York, N. Y. "Magyar Honvéd Huszar." (For Tea Rum.) No. 18,889; Nov. 30; Gaz. vol. 220; p. 1717.
- Seefeld, Wm. W., Sound Beach and Stamford, Conn. "Dandy Candy-Bar." (For Candy.) No. 18,718; Aug. 31; Gaz. vol. 217; p. 1659.
- Scott Paper Company, Philadelphia, Pa. "ScotTissue." (For Paper Towels.) No. 18,220; Feb. 2; Gaz. vol. 211; p. 283.
- Scranton Cigar Company, Scranton, Pa. "Speciale Noubert." (For Cigars.) No. 18,712; Aug. 24; Gaz. vol. 217; p. 1339.
- Seabury & Johnson, East Orange, N. J., and New York, N. Y. "Gold Cross Brand." (For Absorbent Cotton.) No. 18,749; Sept. 7; Gaz. vol. 218; p. 319.
- Sears, Roebuck and Co., Chicago, Ill. "Montclair." (For Baking-Powder.) No. 18,378; Apr. 13; Gaz. vol. 213; p. 747.
- Sears, Roebuck and Co., Chicago, Ill. "Kingston." (For Peaches.) No. 18,379; Apr. 13; Gaz. vol. 213; p. 747.
- Seessel, Harold R., Memphis, Tenn. "Pyrocine." (For a Tooth-Wash.) No. 18,585; July 6; Gaz. vol. 216; p. 326.
- Selbert Paper Company, The, Cincinnati, Ohio. "The Paper that delivers the goods." (For Paper.) No. 18,586; July 6; Gaz. vol. 216; p. 326.
- Selbert Paper Company, The, Cincinnati, Ohio. "The Bag that delivers the goods." (For Bags.) No. 18,587; July 6; Gaz. vol. 216; p. 326.
- Shapiro, Leo, Minneapolis, Minn. "Bye, Bye, Bed Bugs!" (For Bedbug, Roach, and Ant Killer.) No. 18,953; Dec. 28; Gaz. vol. 221; p. 1451.
- Shiwanov, Ludwig, New York, N. Y. "Ex-Corns." (For a Corn-Remover.) No. 18,489; May 25; Gaz. vol. 214; p. 1318.
- Slevers, Christian J., New Albany, Ind. "Dixie Highway Cigars." (For Cigars.) No. 18,850; Nov. 9; Gaz. vol. 220; p. 676.
- Slevers, Christian J., New Albany, Ind. "National Highway Cigars." (For Cigars.) No. 18,890; Nov. 30; Gaz. vol. 220; p. 1717.
- Simon and Sons, J., St. Louis, Mo. "Daddy of 'Em All." (For Whisky.) No. 18,903; Dec. 14; Gaz. vol. 221; p. 735.
- Sinclair Manufacturing Company, The, Toledo, Ohio. "Pure Powdered German Lye." (For Powdered Lye.) No. 18,675; Aug. 17; Gaz. vol. 217; p. 1053.
- Singleton, H. M., Los Angeles, Cal. "Lusterall." (For Furniture-Polish or Varnish-Remover.) No. 18,512; June 8; Gaz. vol. 215; p. 665.
- Skinolin Company, Los Angeles, Cal. "Skinolin." (For an Ointment.) No. 18,655; Aug. 3; Gaz. vol. 217; p. 338.
- Smith Brewing Co., The, Youngstown, Ohio. "Alt-Holstein." (For Beer.) No. 18,676; Aug. 17; Gaz. vol. 217; p. 1053.
- Smith Brothers, Poughkeepsie, N. Y. "Lasses Kisses." (For Candy.) No. 18,575; June 29; Gaz. vol. 215; p. 1497.
- Smith Brothers, Poughkeepsie, N. Y. "Smith Brothers' S. B. Chewing Gum." (For Chewing-Gum.) No. 18,720; Aug. 31; Gaz. vol. 217; p. 1659.
- Smith & Co., C. E., San Antonio, Tex. "Mex cane." (For Table-Syrup.) No. 18,588; July 6; Gaz. vol. 216; p. 326.
- Smith & Company, S. W., Jacksonville, Fla. "Solomon Whitfield Smith Three and Nine Dose Venereal Remedy." (For a Medicine for Venereal Diseases.) No. 18,656; Aug. 3; Gaz. vol. 217; p. 338.
- Smith, David A., Wonder, Nev. "Eye Bath." (For Lotion for the Eyes.) No. 18,513; June 8; Gaz. vol. 215; p. 665.
- Smith, Frank E., Chicago, Ill. "Imperial Art Embroidery Package." (For Art Embroidery.) No. 18,222; Feb. 2; Gaz. vol. 211; p. 283.
- Smith, Frank E., Chicago, Ill. "Peerless." (For Embroidery-Cotton.) No. 18,891; Nov. 30; Gaz. vol. 220; p. 1717.
- Smith, Frederick C., Boston, Mass. "Algonquin Ye Living Water." (For Mineral-Spring Water.) No. 18,713; Aug. 24; Gaz. vol. 217; p. 1339.
- Smith, Still J., Eau Claire, Wis. "K-O." (For a Hog-Cholera Compound.) No. 18,557; June 22; Gaz. vol. 215; p. 1261.
- Smith Webbing Company, Pawtucket, R. I. "Ascot." (For Garter-Elastic.) No. 18,714; Aug. 24; Gaz. vol. 217; p. 1339.
- Smith Webbing Company, Pawtucket, R. I. "Clover." (For Garter-Elastic.) No. 18,772; Sept. 21; Gaz. vol. 218; p. 874.
- Smith Webbing Company, Pawtucket, R. I. "Henley." (For Garter-Elastic.) No. 18,773; Sept. 21; Gaz. vol. 218; p. 874.
- Smith Webbing Company, Pawtucket, R. I. "Windsor." (For Garter-Elastic.) No. 18,774; Sept. 21; Gaz. vol. 218; p. 874.
- Smolowitz, Meyer, New York, N. Y. "Family Cambric." (For Cambric.) No. 18,750; Sept. 7; Gaz. vol. 218; p. 319.
- Sole, Fred, San Antonio, Tex. "Ice-Land Sea-Foam Hair Tonic." (For a Hair-Tonic.) No. 18,299; Mar. 9; Gaz. vol. 212; p. 687.
- Sonn Brothers Company, New York, N. Y. "Piury & Co. Sherry." (For Wines.) No. 18,542; June 15; Gaz. vol. 215; p. 976.
- South Texas Grain Company, Houston, Tex. "Egaday." (For Poultry Feed.) No. 18,781; Sept. 28; Gaz. vol. 218; p. 1154.
- Southern California Music Company, Los Angeles, Cal. "Aloha." (For Hawaiian Ukulele-Strings.) No. 18,267; Feb. 23; Gaz. vol. 211; p. 1262.
- Southwestern Syrup Company, El Paso, Tex. "Golden Rod Syrup." (For Cane and Maple Syrup.) No. 18,721; Aug. 31; Gaz. vol. 217; p. 1659.

- Spiro, David, New York, N. Y. "Palestine Cigarettes." (For Cigarettes.) No. 18,576; June 29; Gaz. vol. 215; p. 1497.
- Spiro, David, New York, N. Y. "Boyara." (For Cigarettes.) No. 18,577; June 29; Gaz. vol. 215; p. 1497.
- Squires & Garner, Mexico, Mo. "Jitney." (For Cigars.) No. 18,380; Apr. 13; Gaz. vol. 213; p. 747.
- Standard Brewery, The, Chicago, Ill. "Oa Kay." (For Beer.) No. 18,242; Feb. 9; Gaz. vol. 211; p. 640.
- Standard Brewery, The, Chicago, Ill. "Utah-Bräu." (For Beer.) No. 18,243; Feb. 9; Gaz. vol. 211; p. 640.
- Standard Polish Company, Rapid City, S. D., and Chicago, Ill. "Knife and Fork Brand Metal Polish." (For a Metal Polish.) No. 18,504; June 1; Gaz. vol. 215; p. 322.
- Stanley Chemical Co., The, Bridgeport, Conn. "The Stanley Satin and Leather Dye." (For Dyes.) No. 18,268; Feb. 23; Gaz. vol. 211; p. 1262.
- Stanton Brothers, New York, N. Y. "Kewpie Blankies." (For Doll-Blankets.) No. 18,352; Apr. 6; Gaz. vol. 213; p. 359.
- Stanton Brothers, New York, N. Y. "Biafold Ties." (For Neckwear.) No. 18,353; Apr. 6; Gaz. vol. 213; p. 359.
- Starr, Firm of R. W. & W. M., Brooklyn and New York, N. Y. "Radio, A Polish Of Quality." (For a Polish for Woodwork.) No. 18,223; Feb. 2; Gaz. vol. 211; p. 283.
- Steinam, Jos. L., New York, N. Y. "Break Up The War—Make Peace." (For Puzzles.) No. 18,189; Jan. 12; Gaz. vol. 210; p. 715.
- Stephens, William P., Hutchinson, Kans. "Stephens' Duro Ink." (For Ink.) No. 18,543; June 15; Gaz. vol. 215; p. 976.
- Stewart Wood-Finish Co., Chicago, Ill. "Driolac." (For Wood Finish or Varnish.) No. 18,892; Nov. 30; Gaz. vol. 220; p. 1717.
- Stokes, Mark H., Cleveland, Ohio. "Japana Furniture Polish." (For Furniture Polish.) No. 18,780; Sept. 28; Gaz. vol. 218; p. 1154.
- Strauss, Jacob R., Chicago, Ill. "Chicago Booster." (For Cigar-Boxes.) No. 18,851; Nov. 9; Gaz. vol. 220; p. 676.
- Suwannee Cigar Company, Live Oak, Fla. "Ted." (For Cigars.) No. 18,224; Feb. 2; Gaz. vol. 211; p. 283.
- Swangren, Joseph, Maywood, Ill. "Swan-Grain Brand." (For Food Products.) No. 18,300; Mar. 9; Gaz. vol. 212; p. 687.
- Taggart Baking Company, Indianapolis, Ind. "Better Biscuit." (For Crackers.) No. 18,190; Jan. 12; Gaz. vol. 210; p. 715.
- Taggart Baking Company, Indianapolis, Ind. "Taggart's Graham Crackers." (For Crackers.) No. 18,225; Feb. 2; Gaz. vol. 211; p. 283.
- Taggart Baking Company, Indianapolis, Ind. "Blue Point Oyster Crackers." (For Crackers.) No. 18,226; Feb. 2; Gaz. vol. 211; p. 283.
- Taggart Baking Company, Indianapolis, Ind. "Society Wafers." (For Crackers.) No. 18,227; Feb. 2; Gaz. vol. 211; p. 283.
- Taggart Baking Company, Indianapolis, Ind. "Taggart's Select Soda Crackers." (For Crackers.) No. 18,228; Feb. 2; Gaz. vol. 211; p. 283.
- Taggart Baking Company, Indianapolis, Ind. "Jersey Crackers." (For Crackers.) No. 18,229; Feb. 2; Gaz. vol. 211; p. 283.
- Taylor & Co., F. W., Kansas City, Mo. "We Want Your Hay Business." (For Baled Hay.) No. 18,751; Sept. 7; Gaz. vol. 218; p. 319.
- Tebbetts and Garland Store, The, Chicago, Ill. "Red Horse Inn." (For Foods.) No. 18,469; May 18; Gaz. vol. 214; p. 1024.
- Teixeira, A. D., Boston, Mass. "Tony Sauce." (For Sauces.) No. 18,852; Nov. 9; Gaz. vol. 220; p. 676.
- Tennis, Louis A., Philadelphia, Pa. "Aronit." (For Knitted Sweaters.) No. 18,230; Feb. 2; Gaz. vol. 211; p. 283.
- Themelis Bros. Company, Atlanta, Ga., and New York, N. Y. "Rose Tip Themelis Specials." (For Cigarettes.) No. 18,505; June 1; Gaz. vol. 215; p. 322.
- Thomson, James S., Vincennes, Ind. "Thomson's Catarrh & Consumption Remedy." (For a Medicinal Preparation.) No. 18,893; Nov. 30; Gaz. vol. 220; p. 1717.
- Thoro Powder Toilet Soap Company, Los Angeles, Cal. "Thoro." (For Powdered Toilet Soap.) No. 18,715; Aug. 24; Gaz. vol. 217; p. 1339.
- Tiedtke Bros. Co., The, Toledo, Ohio. "Parkwood Brand." (For Canned Peaches.) No. 18,794; Oct. 5; Gaz. vol. 219; p. 268.
- Tigner, Charles H., Kansas City, Mo. "Nonpariel." (For Shampoo-Tonic, Hair-Grower, and Dandruff-Remover.) No. 18,245; Mar. 2; Gaz. vol. 212; p. 326.
- Titus, Charles H., Salt Lake City, Utah. "Wyno Pure Mountain Spring Water." (For Spring Water.) No. 18,636; July 27; Gaz. vol. 216; p. 1317.
- Tobias Bluestein, Inc., Chicago, Ill. "Boulevard Cigarettes." (For Cigarettes.) No. 18,249; Feb. 23; Gaz. vol. 211; p. 1262.
- Toedtmann, Fredrick C., Cleveland, Ohio. "Toedtmann's Honeypepper." (For a Cough Remedy.) No. 18,759; Sept. 14; Gaz. vol. 218; p. 601.
- Tompkins, Oscar R., Asbury Park, N. J. "Base Ball." (For a Game-Board.) No. 18,752; Sept. 7; Gaz. vol. 218; p. 319.
- Tri-State Fruit Co., Lewiston, Idaho. "Open River." (For Apples.) No. 18,904; Dec. 14; Gaz. vol. 221; p. 735.
- Turner, J. W., Springfield, Mo. "Doz-fit Doz-Not-Rip." (For Overall.) No. 18,677; Aug. 17; Gaz. vol. 217; p. 1053.
- U-Auto-Varnish Co., The, Cleveland, Ohio. "U-Auto-Varnish." (For Varnish.) No. 18,420; Apr. 27; Gaz. vol. 213; p. 1445.
- Ulman & Sons, I., Baltimore, Md. "Ulman's Rose Gln." (For Gln.) No. 18,810; Oct. 26; Gaz. vol. 219; p. 1236.
- Ulman & Sons, I., Baltimore, Md. "Wicomico Club Whiskey." (For Whisky.) No. 18,811; Oct. 26; Gaz. vol. 219; p. 1236.
- Ulman & Sons, I., Baltimore, Md. "Ulso Whiskey." (For Whisky.) No. 18,812; Oct. 26; Gaz. vol. 219; p. 1236.
- Ulman & Sons, I., Baltimore, Md. "Ulman's Old Log Cabin Whiskey." (For Whisky.) No. 18,813; Oct. 26; Gaz. vol. 219; p. 1236.
- Union Bleaching & Finishing Co., Greenville, S. C. "P Q S." (For Pillow-Slips.) No. 18,907; Dec. 14; Gaz. vol. 221; p. 735.
- Union Mills Inc., St. Johnsville and New York, N. Y. "Close Fitting." (For Underwear.) No. 18,355; Apr. 6; Gaz. vol. 213; p. 359.
- United Wine & Trading Co., New York, N. Y. "Oldenburger Köhm." (For Cordial.) No. 18,678; Aug. 17; Gaz. vol. 217; p. 1053.
- United Wine & Trading Co., New York, N. Y. "Rose of Limerick." (For Irish Whisky.) No. 18,870; Nov. 16; Gaz. vol. 220; p. 1041.
- United Wine & Trading Co., New York, N. Y. "Von Minden." (For Steinhäger.) No. 18,960; Dec. 28; Gaz. vol. 221; p. 1451.
- Valley Fruit & Produce Ass'n., Walla Walla, Wash. "Walla Walla Valley Brand." (For Fresh Apples.) No. 18,775; Sept. 21; Gaz. vol. 218; p. 874.
- Van Camp Packing Company, The, Indianapolis, Ind. "Van Camp's Peanut Butter." (For Peanut-Butter.) No. 18,961; Dec. 28; Gaz. vol. 221; p. 1451.
- Van Doran, E. A., Hiawatha, Kans. "Van's Auto New also Van's Furniture New." (For a Furniture Polish.) No. 18,871; Nov. 16; Gaz. vol. 220; p. 1041.
- Van Duzer Extract Company, Springfield, Mass. "Worths Brand." (For Flavoring Extracts.) No. 18,894; Nov. 30; Gaz. vol. 220; p. 1717.
- Van Fossen, D. J., Kansas City, Mo. "Rex X-E-Ma Paste for Eczema and other Skin Diseases." (For a Medicine Preparation.) No. 18,381; Apr. 13; Gaz. vol. 213; p. 747.
- Van Hoogstrate, Eduard, Chicago, Ill. "Ivory Brand." (For Varnish.) No. 18,390; Apr. 20; Gaz. vol. 213; p. 1116.
- Van Hoogstrate, Eduard, Chicago, Ill. "Ivory Brand." (For Paints.) No. 18,391; Apr. 20; Gaz. vol. 213; p. 1116.
- Veldhuiser, Albert, New York, N. Y. "Wilhelmina." (For Toilet Powders.) No. 18,679; Aug. 17; Gaz. vol. 217; p. 1053.
- Venus Company, Brooklyn, N. Y. "Venus Lavender Cream." (For Massage-Cream.) No. 18,382; Apr. 13; Gaz. vol. 213; p. 747.
- Venus Company, Brooklyn, N. Y. "Venus Lavender Astringent." (For an Astringent.) No. 18,434; May 4; Gaz. vol. 214; p. 342.
- Venus Company, Brooklyn, N. Y. "Grofina Hair Tonic." (For a Hair-Tonic.) No. 18,593; July 13; Gaz. vol. 216; p. 662.
- Victor Talking Machine Company, Camden, N. J. "Victor." (For Records for Talking Machines.) No. 18,244; Feb. 9; Gaz. vol. 211; p. 640.
- Vola Importing Company, New York, N. Y. "Vola." (For Chianti Wine.) No. 18,470; May 18; Gaz. vol. 214; p. 1024.
- W. H. S. Lloyd Co., New York, N. Y. "Pariloid." (For Paints.) No. 18,921; Dec. 21; Gaz. vol. 221; p. 1037.
- Wadsworth J. Zittel Co., Buffalo, N. Y. "Sugar Pops." (For Candy.) No. 18,236; Feb. 2; Gaz. vol. 211; p. 283.
- Wagner, Henry, *et al.*, executors. (See Weinhard, Henry.)
- Wagner, Per R., Brooklyn, N. Y. "Liquid Horn." (For Varnish.) No. 18,356; Apr. 6; Gaz. vol. 213; p. 359.
- Walsh, Bernard P., and M. Manchik, Chicago, Ill. "Walsh's Head Wash." (For a Head-Wash.) No. 18,270; Feb. 23; Gaz. vol. 211; p. 1262.
- Walter Brewing Co., The, Pueblo, Colo. "Gold Label." (For Beer.) No. 18,558; June 22; Gaz. vol. 215; p. 1261.
- Ward Baking Company, New York, N. Y. "Ward's Dainty-maid Brand." (For Bread.) No. 18,192; Jan. 12; Gaz. vol. 210; p. 715.
- Ward Baking Company, New York, N. Y. "Ward's Tip-Top Bread." (For Bread.) No. 18,231; Feb. 2; Gaz. vol. 211; p. 283.
- Washclean Mfg. Co., Boonville, Mo. "Washclean." (For a Compound or Composition for Detergent Purposes.) No. 18,722; Aug. 31; Gaz. vol. 217; p. 1659.

Alphabetical list of registrants of labels—Continued.

- Watson, William, Evansville, Ind. "The Watson Magic Hair Restorer." (For a Hair-Tonic.) No. 18,245; Feb. 9; Gaz. vol. 211; p. 640.
- Webber, Lilla A., New York, N. Y. "La Dellah Liquid Cold Cream." (For Cold-Cream.) No. 18,872; Nov. 16; Gaz. vol. 220; p. 1041.
- Weinhard, Estate of Henry, deceased; P. Wessinger, H. Wagner, L. Weinhard, and A. Wessinger, executors, Portland, Oreg. "Ye Olde Colonial Beer." (For Beer.) No. 18,357; Apr. 6; Gaz. vol. 213; p. 359.
- Weinhard, Louise, *et al.*, executors. (See Weinhard, Henry.)
- Weiss & Rauscher, Lehigh, Pa. "Medecinove Horke Vno." (For a Bitter Wine.) No. 18,962; Dec. 28; Gaz. vol. 221; p. 1451.
- Weissmann, Maria, New York, N. Y. "Ex-Piles." (For an Ointment.) No. 18,282; Mar. 2; Gaz. vol. 212; p. 326.
- Wellington, Cyrus W., Springfield, Mass. "Biff." (For Hand and Household Cleaners.) No. 18,929; Dec. 21; Gaz. vol. 221; p. 1037.
- Wessinger, Anna, *et al.*, executors. (See Weinhard, Henry.)
- Wessinger, Paul, *et al.*, executors. (See Weinhard, Henry.)
- Western Coffee Company, The, El Paso, Tex. "Hotel Paso del Norte." (For Blend Roasted Coffee.) No. 18,681; Aug. 17; Gaz. vol. 217; p. 1053.
- Wheeler Beauty Co., New York, N. Y. "Wheeler's Hair Coloring." (For Hair-Dye and Hair-Colorings.) No. 18,460; May 11; Gaz. vol. 214; p. 681.
- White Ribbon Beer Company, San Diego, Cal. "White Ribbon Beer The Food Drink." (For Beer.) No. 18,782; Sept. 28; Gaz. vol. 218; p. 1154.
- White Ribbon Beer Company, San Diego, Cal. "Maltina, The White Ribbon Tonic." (For a Malt Tonic.) No. 18,895; Nov. 30; Gaz. vol. 220; p. 1717.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Community Flax." (For Stationery.) No. 18,461; May 11; Gaz. vol. 214; p. 681.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Goody Two-shoes." (For Stationery.) No. 18,462; May 11; Gaz. vol. 214; p. 681.
- Wiersching, Edward H., Binghamton, N. Y. "Lacquer-shine Metal Polish." (For Metal-Polish.) No. 18,463; May 11; Gaz. vol. 214; p. 681.
- Wilkey Mfg. Co., Chicago, Ill. "Everts Silver Polish." (For Silver-Polish.) No. 18,246; Feb. 9; Gaz. vol. 211; p. 640.
- William McMurray & Company, St. Paul, Minn. "Unter den Linden." (For Coffee.) No. 18,616; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "Trollhattan." (For Coffee.) No. 18,617; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "Gretchen." (For Coffee.) No. 18,618; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "The Fram." (For Coffee.) No. 18,619; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "Fjord." (For Coffee.) No. 18,620; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "Leif Erickson." (For Coffee.) No. 18,621; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "Nisse." (For Coffee.) No. 18,622; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "Kaffee Klatsch." (For Coffee.) No. 18,623; July 27; Gaz. vol. 216; p. 1317.
- William McMurray & Company, St. Paul, Minn. "Tomte-gubbe." (For Coffee.) No. 18,666; Aug. 17; Gaz. vol. 217; p. 1053.
- Williams, Harry S., Springfield, Ohio. "Lusterwool." (For Cleaning, Scouring, and Polishing Material.) No. 18,232; Feb. 2; Gaz. vol. 211; p. 283.
- Williams, J. D., Wilkes-Barre, Pa. "Jay Dees Evangeline Chocolates, Bonbons, Caramels." (For Chocolates, Bonbons, and Caramels.) No. 18,233; Feb. 2; Gaz. vol. 211; p. 283.
- Willow Springs Brewing Co., Omaha, Nebr. "Old Time." (For Beer.) No. 18,683; Aug. 17; Gaz. vol. 217; p. 1053.
- Willson, Ellis O., Elgin, Oreg. "Dr Willson's Umatilla Indian Medicine." (For Medicine.) No. 18,760; Sept. 14; Gaz. vol. 218; p. 601.
- Winget Manufacturing Co., Inc., Minneapolis, Minn. "Priscilla." (For Headwear.) No. 18,754; Sept. 7; Gaz. vol. 218; p. 319.
- Wise Brothers, Inc., Baltimore, Md. "Quick ^{on} _{off} Auto Suit." (For Auto-Suits.) No. 18,930; Dec. 21; Gaz. vol. 221; p. 1037.
- Wise Brothers, Inc., Baltimore, Md. "Quick ^{on} _{off} Over-All." (For Overalls.) No. 18,931; Dec. 21; Gaz. vol. 221; p. 1037.
- Wm. M. Palmer Mfg. Co., Inc., The, New York, N. Y. "Aromita Silver Cleanzap." (For a Silver-Cleaner.) No. 18,430; May 4; Gaz. vol. 214; p. 342.
- Woolf & Shulhof, New York, N. Y. "Watch Your Step." (For Ladies' Dresses.) No. 18,271; Feb. 23; Gaz. vol. 211; p. 1262.
- Woolson Spice Company, The, Toledo, Ohio. "Brand." (For Coffee, Teas, and Spices.) No. 18,421; Apr. 27; Gaz. vol. 213; p. 1445.
- Wortendyke Manufacturing Company, Richmond, Va. "Snow Drop." (For Toilet-Paper.) No. 18,234; Feb. 2; Gaz. vol. 211; p. 283.
- Wróblewski, David, New York, N. Y. "Wino Kuracyjne Kalwaryjskie." (For Medicinal Wines.) No. 18,843; Nov. 2; Gaz. vol. 220; p. 347.
- Wurth, Frank, Canton, Mo. "The Mule Cigar—The Pride of Missouri." (For Cigars.) No. 18,235; Feb. 2; Gaz. vol. 211; p. 283.
- Wyatt Manufacturing Co., Kansas City, Mo. "Blue Leaf." (For Bluing-Leaves.) No. 18,896; Nov. 30; Gaz. vol. 220; p. 1717.
- Young, Frank A., Lawton, Okla. "107." (For Cigars.) No. 18,471; May 18; Gaz. vol. 214; p. 1024.
- Young, W. F., Springfield, Mass. "Absorbine, Jr. The Antiseptic Liniment." (For Liniment.) Nos. 18,964-5; Dec. 28; Gaz. vol. 221; p. 1451.
- Zulu Manufacturing Company, Chicago, Ill. "Golden Fruit." (For Chewing-Gum.) No. 18,464; May 11; Gaz. vol. 214; p. 681.

PRINTS.

- A. Schilling & Company, San Francisco, Cal. "Baking-Powder and Grape Poster." (For Baking-Powder.) No. 4,009; Aug. 3; Gaz. vol. 217; p. 338.
- A. G. Hyde & Sons, New York, N. Y. "Heatherbloom." (For Petticoats.) No. 4,064; Sept. 21; Gaz. vol. 218; p. 874.
- Abbotts Alderney Dairies, Philadelphia, Pa., Atlantic City, Ocean City, Wildwood, and Cape May, N. J. "Use Abbotts 'A' Milk." (For Milk.) No. 3,803; Feb. 2; Gaz. vol. 211; p. 284.
- Adjustable Soft Socket Artificial Limb Co., Cincinnati, Ohio. "Forster Treufft." (For Artificial Limbs, Supports, Extensions, Braces, Splints, and Orthopedic Appliances.) No. 3,870; Apr. 20; Gaz. vol. 213; p. 1116.
- Alvin Manufacturing Company, Sag Harbor, N. Y. "Alvin Silver Plate." (For Alvin Silver.) No. 4,080; Oct. 12; Gaz. vol. 219; p. 585.
- Alvin Manufacturing Company, Sag Harbor, N. Y. "Alvin Silver." (For Alvin Silver.) No. 4,086; Oct. 19; Gaz. vol. 219; p. 928.
- Amazon Cotton Mills, Thomasville, N. C. "Amazon." (For Knitting-Yarns.) No. 3,904; May 18; Gaz. vol. 214; p. 1024.
- American Art Works, The, Coshocton, Ohio. "Lasts Everlastingly." (For Brick.) No. 3,897; May 11; Gaz. vol. 214; p. 682.
- American Candy Co., Milwaukee, Wis. "American Candy Co. Base Ball Stars." (For Chocolates and Confectionery.) No. 4,020; Aug. 24; Gaz. vol. 217; p. 1340.
- Armour and Company, Chicago, Ill. "Armour's Grape Juice." (For Grape-Juice.) Nos. 3,975-7; July 6; Gaz. vol. 216; p. 326.
- Asch, Leonard C., New York, N. Y. "Annette Kellermann Swimming Tights." (For Swimming-Tights.) No. 3,871; Apr. 27; Gaz. vol. 213; p. 1446.
- Aunt Jemima Mills Company, St. Joseph, Mo. "Red Top Flour Tops Them All." (For Flour.) No. 3,818; Feb. 23; Gaz. vol. 211; p. 1262.
- Aunt Jemima Mills Company, St. Joseph, Mo. "Made In A Minute The Milk's Mixed In It." (For Pancake-Flour.) No. 4,049; Sept. 7; Gaz. vol. 218; p. 320.
- Austin, H. C., Wenatchee, Wash. "Wenatchee Belle Brand Apples." (For Apples.) No. 4,131; Nov. 23; Gaz. vol. 220; p. 1372.
- B. F. Goodrich Co., The, Akron, Ohio. "Goodrich Safety Tread." (For Pneumatic Tires.) No. 3,912; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "Early to Bed Early to Rise Short Length Sleeping Suits—Now you're wise." (For Sleeping-Suits.) No. 3,905; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "Tonight's the Night." (For Sleeping-Suits.) No. 3,906; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "'Between You and the Sun' Stands B. V. D." (For Athletic Underwear.) No. 3,907; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "Some Nap!" (For Sleeping-Suits.) No. 3,908; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "First Aid to the Light Sleeper." (For Sleeping-Suits.) No. 3,909; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "Be Prepared!" (For Athletic Underwear.) No. 3,910; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "This Man Feels Fine." (For Athletic Underwear.) No. 3,911; May 18; Gaz. vol. 214; p. 1024.
- B. V. D. Company, The, New York, N. Y. "You Rascal, It's B. V. D. That Keeps You Cool!" (For Athletic Underwear.) No. 3,934; June 8; Gaz. vol. 215; p. 665.
- B. V. D. Company, The, New York, N. Y. "You Can't Be Too Careful, Sir—Here's the B. V. D. Label." (For Athletic Underwear.) No. 3,935; June 8; Gaz. vol. 215; p. 665.
- B. V. D. Company, The, New York, N. Y. "That's Your Friend, The B. V. D. Label, Boys!" (For Athletic Underwear.) No. 3,936; June 8; Gaz. vol. 215; p. 665.
- B. V. D. Company, The, New York, N. Y. "Play The Game of 'Beat-The-Heat' in B. V. D., and You'll Win." (For Athletic Underwear.) No. 3,937; June 8; Gaz. vol. 215; p. 665.
- B. V. D. Company, The, New York, N. Y. "Welcome to Camp B. V. D." (For Athletic Underwear.) No. 3,938; June 8; Gaz. vol. 215; p. 665.
- B. V. D. Company, The, New York, N. Y. "Now, Now, Cool Off—Get Your B. V. D.'s On!" (For Athletic Underwear.) No. 3,958; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "That Easy-Breezy B. V. D. Feeling." (For Athletic Underwear.) No. 3,959; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "Go Get B. V. D. and Get Cool." (For Athletic Underwear.) No. 3,960; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "Face Summer In 'Fine Fettle' With B. V. D." (For Athletic Underwear.) No. 3,961; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "Into B. V. D. Means 'Back to Nature.'" (For Athletic Underwear.) No. 3,962; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "B. V. D. Makes Ours 'The Land of The Free.'" (For Athletic Underwear.) No. 3,963; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "Into B. V. D. Means 'Back to Nature.'" (For Athletic Underwear.) No. 3,964; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "Summers Rule of Three." (For Athletic Underwear.) No. 3,965; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "Go Get B. V. D. and Get Cool." (For Athletic Underwear.) No. 3,966; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "Face Summer In 'Fine Fettle' With B. V. D." (For Athletic Underwear.) No. 3,967; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "B. V. D. Makes Ours 'The Land of The Free.'" (For Athletic Underwear.) No. 3,968; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "The Summer 'Rule of Three.'" (For Athletic Underwear.) No. 3,969; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "That Easy-Breezy B. V. D. Feeling." (For Athletic Underwear.) No. 3,970; June 29; Gaz. vol. 215; p. 1498.
- B. V. D. Company, The, New York, N. Y. "B. V. D. 1915 Men's Two Piece Suit." (For Athletic Underwear.) No. 4,021; Aug. 24; Gaz. vol. 217; p. 1340.
- B. V. D. Co., The, New York, N. Y. "B. V. D. 1915 Men's Union Suit." (For Athletic Underwear.) No. 4,022; Aug. 24; Gaz. vol. 217; p. 1340.
- B. V. D. Company, The, New York, N. Y. "B. V. D. Boys' Closed Crotch Union Suit." (For Athletic Underwear.) No. 4,067; Sept. 28; Gaz. vol. 218; p. 1154.
- B. V. D. Company, The, New York, N. Y. "B. V. D. Men's V Neck Two Piece Suit." (For Athletic Underwear.) No. 4,087; Oct. 19; Gaz. vol. 219; p. 928.
- B. V. D. Company, The, New York, N. Y. "B. V. D. Men's Neck Union Suit." (For Athletic Underwear.) No. 4,088; Oct. 19; Gaz. vol. 219; p. 928.
- B. V. D. Company, The, New York, N. Y. "Measurements Required When Ordering B. V. D. Underwear." (For Athletic Underwear.) No. 4,089; Oct. 19; Gaz. vol. 219; p. 928.
- Baltimore Roofing & Asbestos Mfg. Co., Asbestos, Md. "Puro Asbestos Roofing." (For Prepared Roofing.) No. 4,132; Nov. 30; Gaz. vol. 220; p. 1717.
- Baulig, Theodore F., Egg Harbor, N. J. "Pajama Group." (For Pajamas.) Nos. 4,108-9; Nov. 2; Gaz. vol. 220; p. 348.
- Beebe, John E., Chicago, Ill. "Cook Stove Size." (For Coal.) No. 4,120; Nov. 16; Gaz. vol. 220; p. 1041.
- Beeson, John H., Crawfordsville, Ind. "Marker for Public Roads." (For Markers for Public Roads.) No. 4,071; Oct. 5; Gaz. vol. 219; p. 268.
- Bloch Bros. Tobacco Co., The, Wheeling, W. Va. "Panama Pacific Exposition." (For Smoking-Tobacco.) No. 3,834; Mar. 9; Gaz. vol. 212; p. 687.
- Boyd, D. M., Kirkwood, Mo. "Good Ship—Satisfied Customer." (For Gentlemen's Furnishing Goods and Clothing.) No. 4,090; Oct. 19; Gaz. vol. 219; p. 928.
- Broderick & Bascom Rope Company, St. Louis, Mo. "Yellow Strand." (For Wire Rope and Cables.) No. 3,848; Mar. 30; Gaz. vol. 212; p. 1688.
- Brown, Wm. T., Dubuque, Iowa. "Mrs. Coffee's Toast." (For Coffee.) No. 3,939; June 8; Gaz. vol. 215; p. 665.
- Burson Knitting Company, Rockford, Ill. "Burson Fashioned Hose." (For Burson-Fashioned Hose.) No. 4,110; Nov. 2; Gaz. vol. 220; p. 348.
- Burson Knitting Company, Rockford, Ill. "Burson." (For Hosiery.) No. 4,111; Nov. 2; Gaz. vol. 220; p. 348.
- C. Reiss Coal Co., The, Sheboygan, Manitowoc, Two Rivers, Green Bay, Ashland, and Superior, Wis.; Escanaba, Mich., and Waukegan, Ill. "Black Band." (For Coal.) No. 3,998; July 20; Gaz. vol. 216; p. 1011.

- Canton Electric Cut Company, The, Canton, Ohio. "Electric-Cut." (For Coffee-Mills and Meat-Choppers.) No. 4,014; Aug. 17; Gaz. vol. 217; p. 1053.
- Celli, John E., Philadelphia, Pa. "Eusozo." (For a Medicine.) No. 3,898; May 11; Gaz. vol. 214; p. 682.
- Central Steel Company, The, Massillon, Ohio. "Agathon Steels." (For Steel.) No. 4,122; Nov. 16; Gaz. vol. 220; p. 1041.
- Channell Chemical Company, Chicago, Ill. "Your furniture and woodwork seem to have new beauties when you use O-Cedar Polish." (For O-Cedar Polish.) No. 4,119; Nov. 9; Gaz. vol. 220; p. 676.
- Chas. Blum Company, Inc., Jacksonville, Fla. "Savings Department Chas. Blum Company, Inc." (For Wines and Liquors.) No. 4,133; Nov. 30; Gaz. vol. 220; p. 1717.
- Chero-Cola Co., Columbus, Ga. "Chero-Cola. There's None So Good." (For Chero-Cola.) No. 3,857; Apr. 13; Gaz. vol. 213; p. 748.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. "An American Beauty." (For Cold-Cream.) No. 3,941; June 8; Gaz. vol. 215; p. 665.
- Colgate & Co., New York, N. Y. "Colgates." (For Shaving Stick, Powder, and Cream.) No. 4,141; Dec. 7; Gaz. vol. 221; p. 349.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "The Magic of Efficiency." (For an Electric Iron.) No. 4,072; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Cleaning—The New Way." (For an Electrical Vacuum-Cleaner.) No. 4,073; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "The Orleto Heater." (For a Gas Water-Heater.) No. 4,074; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Cooking In Comfort." (For a Gas-Range.) No. 4,075; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Burn Your Refuse Before it Becomes Filth." (For a Garbage-Incinerator.) No. 4,076; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Cook In Comfort." (For a Gas-Range.) No. 4,077; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Independent Of The Garbage Man." (For a Garbage-Incinerator.) No. 4,078; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Blue Monday." (For an Electric Washing-Machine.) No. 4,079; Oct. 5; Gaz. vol. 219; p. 268.
- Consolidated Gas, Electric Light and Power Company of Baltimore, Baltimore, Md. "The Ordeal." (For a Gas Water-Heater.) No. 4,091; Oct. 19; Gaz. vol. 219; p. 928.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Cleaning the Old Way." (For an Electrical Vacuum-Cleaner.) No. 4,092; Oct. 19; Gaz. vol. 219; p. 928.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Taking The Work Out of Washing." (For Electric Washing-Machines.) No. 4,093; Oct. 19; Gaz. vol. 219; p. 928.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Dirt, Discomfort and Discomfiture." (For an Electric Iron.) No. 4,094; Oct. 19; Gaz. vol. 219; p. 928.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Why be a Dish Washer?" (For an Electric Dish-Washing Machine.) No. 4,101; Oct. 26; Gaz. vol. 219; p. 1236.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Liberated." (For an Electric Dish-Washing Machine.) No. 4,102; Oct. 26; Gaz. vol. 219; p. 1236.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "As The Modern House-Wife Does It." (For a Mechanical Bread-Mixer.) No. 4,103; Oct. 26; Gaz. vol. 219; p. 1236.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Needa Helper?" (For a Mechanical Bread-Mixer.) No. 4,104; Oct. 26; Gaz. vol. 219; p. 1236.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Two Magicians." (For an Electric Iron.) No. 4,105; Oct. 26; Gaz. vol. 219; p. 1236.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Don't Court Disaster." (For an Electric Iron.) No. 4,106; Oct. 26; Gaz. vol. 219; p. 1236.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Comfort Without Dirt." (For an Electric Heater.) No. 4,153; Dec. 28; Gaz. vol. 221; p. 1452.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Smoky and Dangerous." (For an Electric Heater.) No. 4,154; Dec. 28; Gaz. vol. 221; p. 1452.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "Electric Heating Pad." (For an Electric Heating-Pad.) No. 4,155; Dec. 28; Gaz. vol. 221; p. 1452.
- Consolidated Gas, Electric Light & Power Company of Baltimore, Baltimore, Md. "The Old Way." (For an Electric Heating-Pad.) No. 4,156; Dec. 28; Gaz. vol. 221; p. 1452.
- Cream of Wheat Co., Minneapolis, Minn. "Bringing Home The Holly." (For Wheat Breakfast Food.) No. 3,796; Jan. 12; Gaz. vol. 210; p. 716.
- Cream of Wheat Co., Minneapolis, Minn. "Say 'Cream of Wheat, You Rascal!'" (For Wheat Breakfast Food.) No. 3,804; Feb. 2; Gaz. vol. 211; p. 284.
- Cream of Wheat Co., Minneapolis, Minn. "Well, You're Helping Some!" (For Wheat Breakfast Food.) No. 3,820; Feb. 23; Gaz. vol. 211; p. 1262.
- Cream of Wheat Co., Minneapolis, Minn. "What do you charge for board, Sir?" (For Wheat Breakfast Food.) No. 3,853; Apr. 6; Gaz. vol. 213; p. 360.
- Cream of Wheat Co., Minneapolis, Minn. "Rip Van Winkle." (For Wheat Breakfast Food.) No. 3,872; Apr. 27; Gaz. vol. 213; p. 1446.
- Cream of Wheat Co., Minneapolis, Minn. "Playing Store." (For Wheat Breakfast Food.) No. 3,917; May 25; Gaz. vol. 214; p. 1318.
- Cream of Wheat Co., Minneapolis, Minn. "A Dutch Treat." (For Wheat Breakfast Food.) No. 3,971; June 29; Gaz. vol. 215; p. 1498.
- Cream of Wheat Co., Minneapolis, Minn. "Certaintement, That's It! Cream of Wheat!" (For Wheat Breakfast Food.) No. 3,999; July 27; Gaz. vol. 216; p. 1318.
- Cream of Wheat Co., Minneapolis, Minn. "Jack Sprat." (For Wheat Breakfast Food.) No. 4,050; Sept. 7; Gaz. vol. 218; p. 320.
- Cream of Wheat Co., Minneapolis, Minn. "A Dainty Breakfast." (For Wheat Breakfast Food.) No. 4,058; Sept. 21; Gaz. vol. 218; p. 874.
- Cream of Wheat Co., Minneapolis, Minn. "Empty, By Heck!" (For Wheat Breakfast Food.) No. 4,113; Nov. 2; Gaz. vol. 220; p. 348.
- Cream of Wheat Co., Minneapolis, Minn. "I'm Ready, Rastus." (For Wheat Breakfast Food.) No. 4,123; Nov. 16; Gaz. vol. 220; p. 1041.
- Cream of Wheat Co., Minneapolis, Minn. "Santa Claus' Letter." (For Wheat Breakfast Food.) No. 4,157; Dec. 28; Gaz. vol. 221; p. 1452.
- Cusack Company, The, Chicago, Ill. "Makes Laundry Work So Easy." (For American Family Soap.) No. 3,879; Apr. 27; Gaz. vol. 213; p. 1446.
- D. Canale & Co. Inc., Memphis, Tenn. "D. Canale & Co., Memphis, Tenn." (For Wines and Liquors.) No. 4,152; Dec. 28; Gaz. vol. 221; p. 1452.
- D. M. Ferry & Co., Detroit, Mich. "Buy Ferry's Seeds Here." (For Ferry's Seeds.) No. 3,859; Apr. 13; Gaz. vol. 213; p. 748.
- D. M. Ferry & Co., Detroit, Mich. "Ferry's Seeds." (For Ferry's Seeds.) No. 4,143; Dec. 7; Gaz. vol. 221; p. 349.
- Dietz Baking Company, The, Holyoke, Mass. "Baker Boy." (For Bread.) No. 4,134; Nov. 30; Gaz. vol. 220; p. 1717.
- Donoghue, James, Cleveland, Ohio. "The 'Century' Breathing Tube." (For a Lung-Developer.) No. 4,015; Aug. 17; Gaz. vol. 217; p. 1053.
- Duane Pharmacal Company, New York and Brooklyn, N. Y. "Algola Pills." (For Pills.) No. 3,807; Feb. 2; Gaz. vol. 211; p. 284.
- Durham Duplex Razor Co., Jersey City, N. J. "Durham-Duplex." (For Razors.) No. 3,978; July 6; Gaz. vol. 216; p. 326.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Pastry Spice." (For Spices.) No. 3,945; June 15; Gaz. vol. 215; p. 976.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Celery Salt." (For Celery-Salt.) No. 3,952; June 22; Gaz. vol. 215; p. 1261.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Challenge Sauce." (For Sauces.) No. 3,953; June 22; Gaz. vol. 215; p. 1261.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Poultry Sauce." (For Seasoning.) No. 3,954; June 22; Gaz. vol. 215; p. 1261.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Salad Dressing." (For Salad-Dressing.) No. 3,955; June 22; Gaz. vol. 215; p. 1261.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Curry Powder." (For Curry-Powder.) No. 3,956; June 22; Gaz. vol. 215; p. 1261.
- Durkee & Co., E. R., New York, N. Y. "Durkee's Flavoring Extracts." (For Flavoring Extracts.) No. 3,957; June 22; Gaz. vol. 215; p. 1261.
- Dux & Bros., Dr. H., Jacksonville, Fla. "Superiora." (For Magnolia-Leaves.) No. 4,095; Oct. 19; Gaz. vol. 219; p. 928.
- E. Greenfield's Sons, New York, N. Y. "Greenfield's Chocolate Sponge." (For Candy.) No. 3,892; May 4; Gaz. vol. 214; p. 342.

Alphabetical list of registrants of prints—Continued.

- E. La Montagne's Sons, New York, N. Y. "To Green River." (For Whisky.) No. 3,915; May 18; Gaz. vol. 214; p. 1024.
- E. La Montagne's Sons, New York, N. Y. "'B. & G.' Olive Oil." (For Olive-Oil.) No. 3,942; June 8; Gaz. vol. 215; p. 665.
- E. La Montagne's Sons, New York, N. Y. "Gordon London Dry Gin." (For Gordon London Dry Gin.) No. 3,943; June 8; Gaz. vol. 215; p. 665.
- E. La Montagne's Sons, New York, N. Y. "'B. & G.' Médoc and Sauternes." (For Médoc and Sauternes.) No. 3,982; July 6; Gaz. vol. 216; p. 326.
- E. Pritchard, New York, N. Y. "Pride of the Farm." (For Catsup.) No. 3,829; Feb. 23; Gaz. vol. 211; p. 1262.
- E. I. du Pont de Nemours Powder Co., Wilmington, Del. "Ballistite." (For Smokeless Shotgun-Powder.) No. 4,107; Oct. 26; Gaz. vol. 219; p. 1236.
- Edwards & Deutsch Litho. Co., Chicago, Ill. "Frozen Mints—They Captivate." (For Chewing-Gum.) No. 3,843; Mar. 9; Gaz. vol. 212; p. 687.
- Ell Lilly and Company, Indianapolis, Ind. "From Childhood To Old Age." (For a Dental Paste.) No. 4,032; Aug. 24; Gaz. vol. 217; p. 1340.
- Emerson Shoe Company, Rockland, Mass. "The Emerson Shoe." (For Shoes.) Nos. 4,126-7; Nov. 16; Gaz. vol. 220; p. 1041.
- Estate of P. D. Beckwith, Inc., Dowagiac, Mich. "Contract Cancelled." (For Ranges.) No. 4,023; Aug. 24; Gaz. vol. 217; p. 1340.
- Estate of P. D. Beckwith, Inc., Dowagiac, Mich. "Round Oak Doe-Wah-Jack, Stoves, Ranges, Moistair Heating Systems." (For Stoves, Ranges, and Heating Systems.) No. 4,148; Dec. 21; Gaz. vol. 221; p. 1037.
- F. B. Chamberlain Company, St. Louis, Mo. "Mamma's Pancake Flour." (For Pancake-Flour.) No. 4,112; Nov. 2; Gaz. vol. 220; p. 348.
- F. S. Love Manufacturing Company, Johnstown, Pa. "Delicious Candy Kid. A Popcorn and Peanut Confection. 5¢ per box." (For Popcorn and Peanut Confection.) No. 4,054; Sept. 7; Gaz. vol. 218; p. 320.
- Falk Tobacco Co., New York, N. Y. "This is the Life." (For Smoking-Tobacco.) No. 3,821; Feb. 23; Gaz. vol. 211; p. 1262.
- Fell Manufacturing Company, Inc., The, Cleveland, Ohio. "They Doctor Themselves." (For Stock Remedies.) No. 4,024; Aug. 24; Gaz. vol. 217; p. 1340.
- Firestone Tire & Rubber Company, The, Akron, Ohio. "The Colossus of Roads." (For Rubber Tires.) No. 3,946; June 15; Gaz. vol. 215; p. 976.
- Fisk Rubber Company, The, Chicopee Falls, Mass. "A Helping Hand For Every Motorist." (For Vehicle-Tires.) No. 4,048; Aug. 31; Gaz. vol. 217; p. 1659.
- Fowler, John E., Richmond, Va. "Cherry Smash." (For Cherry Smash.) No. 4,000; July 27; Gaz. vol. 216; p. 1318.
- Fowler, John E., Richmond, Va. "Cherry Smash Sundae." (For Sundaes.) No. 4,068; Sept. 28; Gaz. vol. 218; p. 1154.
- Fowler, John E., Richmond, Va. "Cherry Smash." (For Cherry Smash.) No. 4,096; Oct. 19; Gaz. vol. 219; p. 928.
- Frank H. Fleer Corporation, Philadelphia, Pa. "Bobs." (For Candy-Coated Chewing-Gum.) No. 3,854; Apr. 6; Gaz. vol. 213; p. 360.
- Frisch, Emil, Chicago, Ill. "Everybody's Bread." (For Bread.) No. 4,128; Nov. 16; Gaz. vol. 220; p. 1041.
- Fussell Ice Cream Company, New York, N. Y. "Home Treat." (For Ice-Cream Products.) No. 4,051; Sept. 7; Gaz. vol. 218; p. 320.
- G. Mennen Chemical Company, The, Newark, N. J. "Well Lathered is Half Shaved." (For Shaving-Cream.) No. 3,972; June 29; Gaz. vol. 215; p. 1498.
- G. Mennen Chemical Company, The, Newark, N. J. "The New Science of Shaving." (For Shaving-Cream.) No. 3,973; June 29; Gaz. vol. 215; p. 1498.
- G. Mennen Chemical Company, The, Newark, N. J. "Lather The Mennen Way." (For Shaving-Cream.) No. 3,974; June 29; Gaz. vol. 215; p. 1498.
- Galitzki, Leo, Chicago, Ill. "Genuine Ivory Panama Bleach." (For Hats.) No. 4,129; Nov. 16; Gaz. vol. 220; p. 1041.
- Gardner Wire Company, Chicago, Ill. "It's Cedar." (For Polish for Wood and other Materials.) No. 3,822; Feb. 23; Gaz. vol. 211; p. 1262.
- General Asbestos & Rubber Company, Charleston, S. C. "Garco." (For Asbestos Textiles.) No. 4,135; Nov. 30; Gaz. vol. 220; p. 1717.
- Giunta, Anthony A., Philadelphia, Pa. "'Gluseppe Garibaldi' Brand." (For Macaroni.) No. 3,899; May 11; Gaz. vol. 214; p. 682.
- Globe Automatic Sprinkler Co., The, Cincinnati, Ohio. "Globe Sprinklers." (For Sprinklers.) No. 3,891; May 4; Gaz. vol. 214; p. 342.
- Globe Knitting Works, Grand Rapids, Mich. "Globe." (For Tailor-Made Union Suits.) No. 4,130; Nov. 16; Gaz. vol. 220; p. 1041.
- Globe Paint Company, The, Cleveland, Ohio. "Zanzibar Paint." (For Paint.) No. 4,062; Sept. 21; Gaz. vol. 218; p. 874.
- Goldberg-Goldschmidt Costume Co., Inc. "The 'Inspiration Dress.'" (For Dresses.) No. 3,860; Apr. 13; Gaz. vol. 213; p. 748.
- Goodyear's India Rubber Glove Mfg. Co., Naugatuck, Conn. "Goodyear's." (For Rubber Goods.) No. 4,144; Dec. 7; Gaz. vol. 221; p. 349.
- Grammes, Harry A., Allentown, Pa. "Sampson." (For Key Hook and Rings Combined.) No. 4,158; Dec. 28; Gaz. vol. 221; p. 1452.
- Grand Rapids Refrigerator Co., Grand Rapids, Mich. "Like a clean china dish." (For Refrigerators.) No. 3,900; May 11; Gaz. vol. 214; p. 682.
- Gumpel & Son, J., New York, N. Y. "Biggest Value In Town—Gumpels." (For Clothing.) No. 3,823; Feb. 23; Gaz. vol. 211; p. 1262.
- Hannis Distilling Co., The, Philadelphia, Pa. "Hannis Whiskey." (For Hannis Whisky.) No. 4,145; Dec. 7; Gaz. vol. 221; p. 349.
- Harris, Morris D., New York, N. Y. "M. D. Harris & Co. Known All Over Land, Shirt Makers." (For Shirts.) No. 4,063; Sept. 21; Gaz. vol. 218; p. 874.
- Heinz, Edward N., Chicago, Ill. "Heinz Interest & Discount Time Teller and Desk Calendar." (For Calendars.) No. 4,159; Dec. 28; Gaz. vol. 221; p. 1452.
- Hendee Mfg. Co., The, Springfield, Mass. "The Indian." (For Motor-Cycles.) No. 3,913; May 18; Gaz. vol. 214; p. 1024.
- Hercules Powder Co., Wilmington, Del. "Hercules Explosives." (For Explosives.) No. 3,808; Feb. 2; Gaz. vol. 211; p. 284.
- Hercules Powder Co., Wilmington, Del. "Hercules Rifle Powders." (For Rifle-Powders.) No. 3,809; Feb. 2; Gaz. vol. 211; p. 284.
- Hercules Powder Co., Wilmington, Del. "Hercules Powder." (For Powder.) No. 3,810; Feb. 2; Gaz. vol. 211; p. 284.
- Hercules Powder Co., Wilmington, Del. "Infallible Smokeless Shotgun Powder." (For Infallible Smokeless Shotgun-Powder.) No. 3,811; Feb. 2; Gaz. vol. 211; p. 284.
- Hercules Powder Co., Wilmington, Del. "E. C. Smokeless Shotgun Powder." (For Shotgun-Powder.) No. 3,812; Feb. 2; Gaz. vol. 211; p. 284.
- Hercules Powder Co., Wilmington, Del. "Infallible and E. C." (For Smokeless Shotgun-Powder.) No. 3,824; Feb. 23; Gaz. vol. 211; p. 1262.
- Hercules Powder Co., Wilmington, Del. "Hercules Explosives." (For Explosives.) No. 4,160; Dec. 28; Gaz. vol. 221; p. 1452.
- Hercules Powder Co., Wilmington, Del. "Hercules Dynamite." (For Dynamite.) No. 4,161; Dec. 28; Gaz. vol. 221; p. 1452.
- Hercules Powder Co., Wilmington, Del. "E. C. Smokeless Shotgun Powder." (For Smokeless Shotgun-Powder.) No. 4,162; Dec. 28; Gaz. vol. 221; p. 1452.
- Hercules Powder Co., Wilmington, Del. "Infallible Smokeless Shotgun Powder." (For Smokeless Shotgun-Powder.) No. 4,163; Dec. 28; Gaz. vol. 221; p. 1452.
- Hercules Powder Company, Wilmington, Del. "Infallible." (For Smokeless Shotgun-Powder.) No. 3,797; Jan. 12; Gaz. vol. 210; p. 716.
- Holton & Adams, New York, N. Y. "'Zel' Kept Teeth—Well Kept Health." (For Tooth-Brushes.) No. 3,825; Feb. 23; Gaz. vol. 211; p. 1262.
- Humphrey, David, Cleveland, Ohio. "Hum-Ala." (For Beverages.) No. 4,052; Sept. 7; Gaz. vol. 218; p. 320.
- Humphrey, David, Cleveland, Ohio. "Hum-Can." (For Candy.) No. 4,164; Dec. 28; Gaz. vol. 221; p. 1452.
- Hurley Shoe Co., Rockland, Mass. "Hurley Combination." (For Shoes.) No. 4,149; Dec. 21; Gaz. vol. 221; p. 1037.
- Hyki Company, (not inc.) The, Cleveland, Ohio. "Girl Massaging Scalp." (For a Scalp Remedy.) No. 4,008; Aug. 3; Gaz. vol. 217; p. 338.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. "Turbo Compressors and Blowers." (For Turbo-Compressors and Steam-Turbines.) No. 3,813; Feb. 2; Gaz. vol. 211; p. 284.
- Interwoven Stocking Company, New Brunswick, N. J. "Winner for Nine Seasons." (For Hosiery.) No. 3,979; July 6; Gaz. vol. 216; p. 326.
- Interwoven Stocking Company, New Brunswick, N. J. "Just as cool as they look." (For Hosiery.) No. 3,980; July 6; Gaz. vol. 216; p. 326.
- Interwoven Stocking Company, New Brunswick, N. J. "You can easily tell." (For Hosiery.) No. 3,981; July 6; Gaz. vol. 216; p. 326.
- Interwoven Stocking Co., New Brunswick, N. J. "Interwoven Toe and Heel Socks." (For Hosiery.) No. 4,136; Nov. 30; Gaz. vol. 220; p. 1717.
- J. M. Horton Ice Cream Company, New York, N. Y. "Horton's Ice Cream." (For Ice-Cream.) No. 4,025; Aug. 24; Gaz. vol. 217; p. 1340.
- James S. Kirk & Company, Chicago, Ill. "Kirk's Flake Soap." No. 462. (For Soap.) No. 3,844; Mar. 9; Gaz. vol. 212; p. 687.
- John Simmons Company, New York, N. Y. "Pipe and Fittings." (For Pipe and Fittings.) No. 3,890; Apr. 27; Gaz. vol. 213; p. 1446.

- José Lovera Company, New York, N. Y. "The Lovera Girl." (For Cigars.) No. 3,798; Jan. 12; Gaz. vol. 210; p. 716.
- Julius Kayser & Co., New York, N. Y. "Millions of other women have already found out." (For Silk Gloves.) No. 4,026; Aug. 24; Gaz. vol. 217; p. 1340.
- Julius Kayser & Co., New York, N. Y. "Modeled perfectly, they brighten the beauty." (For Silk Gloves.) No. 4,027; Aug. 24; Gaz. vol. 217; p. 1340.
- Julius Kayser & Co., New York, N. Y. "Kayser Silk Gloves Notice especially the shape." (For Silk Gloves.) No. 4,028; Aug. 24; Gaz. vol. 217; p. 1340.
- Julius Kayser & Co., New York, N. Y. "Kayser Silk Gloves Even after they have been washed." (For Silk Gloves.) No. 4,029; Aug. 24; Gaz. vol. 217; p. 1340.
- Julius Kayser & Co., New York, N. Y. "It's the silk in Kayser Silk Gloves." (For Silk Gloves.) No. 4,030; Aug. 24; Gaz. vol. 217; p. 1340.
- Julius Kayser & Co., New York, N. Y. "More women wear Kayser Silk Gloves." (For Silk Gloves.) No. 4,031; Aug. 24; Gaz. vol. 217; p. 1340.
- Kaufmann & Strauss Co., New York, N. Y. "Nutritious." (For Milk.) No. 3,814; Feb. 2; Gaz. vol. 211; p. 284.
- Kaufmann & Strauss Co., New York, N. Y. "Ice Cold Beer." (For Beer.) No. 3,884; Apr. 27; Gaz. vol. 213; p. 1446.
- Kaufmann & Strauss Co., New York, N. Y. "Glad Hand." (For Coffee.) No. 3,931; June 1; Gaz. vol. 215; p. 322.
- Kelly-Springfield Tire Co., New York, N. Y. "Kelly-Springfield Tires." (For Tires.) No. 3,826; Feb. 23; Gaz. vol. 211; p. 1262.
- King Philip Mills, Fall River, Mass. "King Philip Mills." (For Nainsooks.) No. 3,849; Mar. 30; Gaz. vol. 212; p. 1688.
- King Philip Mills, Fall River, Mass. "King Philip Mills Line of Nainsooks." (For Nainsooks.) No. 4,065; Sept. 21; Gaz. vol. 218; p. 874.
- Kneipp Malt Food Company, Manitowoc, Wis. "Kneipp Malt Better Than Coffee." (For Kneipp Malt.) No. 3,947; June 15; Gaz. vol. 215; p. 976.
- Krumm, A. C., Sr., and A. C., Jr., Philadelphia, Pa. "Krumm's." (For Noodles.) No. 4,097; Oct. 19; Gaz. vol. 219; p. 928.
- Lehigh Portland Cement Co., Allentown, Pa. "Lehigh Portland Cement." (For Lehigh Portland Cement.) No. 3,861; Apr. 13; Gaz. vol. 213; p. 748.
- Lexington Flouring Mills, Lexington, Mo. "Red Feather." (For Flour.) No. 3,816; Feb. 2; Gaz. vol. 211; p. 284.
- Liggett & Myers Tobacco Company, Jersey City, N. J., and St. Louis, Mo. "His Balt." (For Cigarettes.) No. 3,901; May 11; Gaz. vol. 214; p. 682.
- Liggett & Myers Tobacco Company, Jersey City, N. J., and St. Louis, Mo. "Duke's Mixture." (For Smoking-Tobacco.) No. 3,914; May 18; Gaz. vol. 214; p. 1024.
- Ludwig, Nicolaus, San Bernardino, Cal. "German Eagle." (For Bread.) No. 4,098; Oct. 19; Gaz. vol. 219; p. 928.
- Madigan, Patrick J., Chicago, Ill. "Shipwrecked! on the angry deep, while the wind and waves did roar; I Found A Cake of — soap and washed myself ashore." (For Soap.) No. 4,033; Aug. 24; Gaz. vol. 217; p. 1340.
- Marathon Tire & Rubber Co., Cuyahoga Falls, Ohio. "Marathon Angle Tread Tires 'Inspire Confidence.'" (For Automobile-Tires.) No. 3,944; June 8; Gaz. vol. 215; p. 665.
- Martin, Rodney W., Dayton, Ohio. "Fancy Border for Advertising Matter." (For Planos.) No. 3,983; July 6; Gaz. vol. 216; p. 326.
- Marty & Co., F., Syracuse, N. Y. "Vesper Light." (For Candles.) No. 3,827; Feb. 23; Gaz. vol. 211; p. 1262.
- Marty & Co., F., Syracuse, N. Y. "Colonial Night Lamp." (For Candle-Lamps.) No. 3,885; Apr. 27; Gaz. vol. 213; p. 1446.
- Max Wocher & Son Co., The Cincinnati, Ohio. "Cincinnati Automatic Pedestal Operating Table." (For Operating-Tables.) No. 4,081; Oct. 12; Gaz. vol. 219; p. 585.
- Mayer & Lavenson Co., New York, N. Y. "Burglars." (For Cigars.) No. 3,985; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "The Only Girl." (For Cigars.) No. 3,986; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "Around The Globe." (For Cigars.) No. 3,987; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "Real Comfort." (For Cigars.) No. 3,988; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "Good Taste." (For Cigars.) No. 3,989; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "Good Natured." (For Cigars.) No. 3,990; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "The Dream." (For Cigars.) No. 3,991; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "A Thing of Beauty." (For Cigars.) No. 3,992; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "Farmers Delight." (For Cigars.) No. 3,993; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "A Winner." (For Cigars.) No. 3,994; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "Hospitality." (For Cigars.) No. 3,995; July 13; Gaz. vol. 216; p. 662.
- Mayer & Lavenson Co., New York, N. Y. "A Jolly Good Fellow." (For Cigars.) No. 3,996; July 13; Gaz. vol. 216; p. 662.
- Meyercord Company, The, Chicago, Ill. "Perfection in Munsingwear." (For Underwear.) No. 3,832; Mar. 2; Gaz. vol. 212; p. 326.
- Miller, Charles W., Philadelphia, Pa. "Nuttty Chocolates." (For Candy.) No. 3,845; Mar. 9; Gaz. vol. 212; p. 687.
- Moore Drop Forging Company, Springfield, Mass. "Moore Self Winding Clothes Line." (For Clothes-Line Reels.) No. 3,951; June 22; Gaz. vol. 215; p. 1261.
- National Factories, Inc., Richmond, Ind. "Good-Bye Mr. Louse!" (For National Automatic Hog-Oiler.) No. 3,984; July 13; Gaz. vol. 216; p. 662.
- National Hair Goods Company, Chicago, Ill. "National Brand Human Hair." (For Hair Goods and Hair Switches.) No. 3,817; Feb. 2; Gaz. vol. 211; p. 284.
- New England Laboratory Co., Lynn, Mass. "First Aid to a Good Complexion." (For Aleppo Cold-Cream.) No. 3,932; June 1; Gaz. vol. 215; p. 322.
- New England Laboratory Co., Lynn, Mass. "The Paste of Good Taste." (For Tooth-Paste.) No. 4,001; July 27; Gaz. vol. 216; p. 1318.
- Newmark Brothers, Los Angeles, Cal. "California's Morning Glory." (For Coffee.) No. 4,147; Dec. 14; Gaz. vol. 221; p. 735.
- Northwestern Knitting Company, Minneapolis, Minn. "Good Night, Daddy." (For Underwear.) No. 4,165; Dec. 28; Gaz. vol. 221; p. 1452.
- O'Sullivan Rubber Company, New York, N. Y. "O'Sullivan's Heels." (For Heels.) No. 4,013; Aug. 10; Gaz. vol. 217; p. 698.
- O-Zell Company, The, Chicago, Ill. "O-Zell Boy." (For a Beverage.) No. 4,034; Aug. 24; Gaz. vol. 217; p. 1340.
- Offner, Harry, New Orleans, La. "Plain Talk, Square Dealing, Always on the Level." (For Hardware, Tools, and Paints.) No. 3,855; Apr. 6; Gaz. vol. 213; p. 360.
- Old Ben Mining Corporation, Chicago, Ill. "Old Ben Coal." (For Coal.) No. 3,886; Apr. 27; Gaz. vol. 213; p. 1446.
- Old Ben Mining Corporation, Chicago, Ill. "Old Ben Coal." (For Coal.) No. 3,893; May 4; Gaz. vol. 214; p. 342.
- Omega Corn Cure Medicine Co., Milwaukee, Wis. "Knocks the Devil Out of Your Corns." (For Corn Cures.) No. 4,066; Sept. 21; Gaz. vol. 218; p. 874.
- Orona Mfg. Co., Boston, Mass. "Orona Cleans." (For Cleansers.) No. 3,948; June 15; Gaz. vol. 215; p. 976.
- P D Beckwith Inc., Estate, Dowagiac, Mich. "Round Oak Moistair Heating System." (For Heating Systems.) No. 3,856; Apr. 13; Gaz. vol. 213; p. 748.
- Pennoyer, Elizabeth, New York, N. Y. "Kayo." (For Sauce.) No. 4,114; Nov. 2; Gaz. vol. 220; p. 348.
- Pepsi-Cola Co., The, Newbern, N. C. "Drink Pepsi-Cola." (For Pepsi-Cola.) No. 3,862; Apr. 13; Gaz. vol. 213; p. 748.
- Pestoe Brothers & Company, Philadelphia, Pa. "Urfit Petticoat is a Tru-Fit." No. 3,799; Jan. 12; Gaz. vol. 210; p. 716.
- Piel Bros., New York, N. Y. "Piel's Beers." (For Beer.) No. 4,038; Aug. 31; Gaz. vol. 217; p. 1659.
- Pittsburgh Hickson Company, East Butler, Pa. "Hickson's Twin Sagless." (For Springs for Beds, Cots, and Couches.) No. 3,902; May 11; Gaz. vol. 214; p. 682.
- Platt & Washburn Refining Company, New York, N. Y. "Veedol Lubrication Chart." (For Veedol.) No. 3,828; Feb. 23; Gaz. vol. 211; p. 1262.
- Platt & Washburn Refining Company, New York, N. Y. "Veedol." (For Veedol.) No. 3,903; May 11; Gaz. vol. 214; p. 682.
- Powell Hide & Fur Company, Sioux City, Iowa. "The Farmer Supports The World." (For Hides, Pelts, Wool, and Fur.) No. 4,150; Dec. 21; Gaz. vol. 221; p. 1037.
- R. Wallace & Sons Mfg. Co., Wallingford, Conn. "Athena." (For Silver.) No. 3,933; June 1; Gaz. vol. 215; p. 322.
- R. E. Dietz Company, New York, N. Y. "Dietz Lanterns." (For Lanterns.) No. 3,805; Feb. 2; Gaz. vol. 211; p. 284.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Get Next To This Inside Stuff." (For Smoking-Tobacco.) No. 3,850; Mar. 30; Gaz. vol. 212; p. 1688.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "P. A. Ain't Never Hornswoggled Any-one Yet." (For Smoking-Tobacco.) No. 3,851; Mar. 30; Gaz. vol. 212; p. 1688.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Mutt thought all tobaccos bit the tongue till Jeff brought home some 'Good Old P. A.'" (For Smoking-Tobacco.) No. 3,852; Mar. 30; Gaz. vol. 212; p. 1688.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "The Leader because 'Every bite tastes right.'" (For Chewing-Tobacco.) No. 3,887; Apr. 27; Gaz. vol. 213; p. 1446.

- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "A run for your money." (For Chewing-Tobacco.) No. 3,888; Apr. 27; Gaz. vol. 213; p. 1446.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Get the Flavor of Juicy Fruit." (For Chewing-Tobacco.) No. 3,889; Apr. 27; Gaz. vol. 213; p. 1446.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Prince Albert hands you this little line of talk." (For Smoking-Tobacco.) No. 4,039; Aug. 31; Gaz. vol. 217; p. 1659.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Blow in on this one." (For Smoking-Tobacco.) No. 4,040; Aug. 31; Gaz. vol. 217; p. 1659.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "You'll Freeze Fast to P. A." (For Smoking-Tobacco.) No. 4,041; Aug. 31; Gaz. vol. 217; p. 1659.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Old-time jimmy-pipers rally round the P. A. standard!" (For Smoking-Tobacco.) No. 4,042; Aug. 31; Gaz. vol. 217; p. 1659.
- Relly, Edward J., Baltimore, Md. "Economy In The Home." (For Black Dye.) No. 4,082; Oct. 12; Gaz. vol. 219; p. 585.
- Republic Rubber Company, The, Youngstown, Ohio. "Old Man Mileage." (For Automobile Tires and Tubes.) No. 3,830; Feb. 23; Gaz. vol. 211; p. 1262.
- Rice, Elwood E., New York, N. Y. "The Rice Leaders of the World Association." (For Certain Specified Articles of Manufacture.) No. 3,847; Mar. 16; Gaz. vol. 212; p. 1056.
- Rice, Elwood E., New York, N. Y. "Rice Leaders of the World Association." (For Certain Named Goods.) No. 4,166; Dec. 28; Gaz. vol. 221; p. 1452.
- Robt. H. Ingersoll & Bro., New York, N. Y. "Ingersoll." (For Watches.) No. 4,016; Aug. 17; Gaz. vol. 217; p. 1053.
- Rome Textile Company, Rome and New York, N. Y. "Ro-Tex-Co." (For Underwear.) No. 4,043; Aug. 31; Gaz. vol. 217; p. 1659.
- Roy Company, W. D., Chicago, Ill. "Ah! the Original." (For Cigars.) No. 4,044; Aug. 31; Gaz. vol. 217; p. 1659.
- Rumford Chemical Works, Providence, R. I. "Her First Lesson." (For Rumford Baking-Powder.) No. 4,146; Dec. 7; Gaz. vol. 221; p. 349.
- S. S. White Dental Manufacturing Co., The, Philadelphia, Pa. "S. S. White Tooth Paste." (For Tooth-Pastes.) No. 3,833; Mar. 2; Gaz. vol. 212; p. 326.
- S. S. White Dental Mfg. Co., The, Philadelphia, Pa. "Almond Cream & Cold Cream." (For Almond Cream and Cold-Cream.) No. 4,037; Aug. 24; Gaz. vol. 217; p. 1340.
- S. S. White Dental Manufacturing Company, The, Philadelphia, Pa. "Promote Health, Cleanliness and Beauty." (For Advertising Display.) No. 4,118; Nov. 2; Gaz. vol. 220; p. 348.
- Safe-Cabinet Co., The, Marietta, Ohio. "The Safe-Cabinet." (For Safe-Cabinets and Steel Furniture.) Nos. 4,069-70; Sept. 28; Gaz. vol. 218; p. 1154.
- Sanitary Milk Bottle Lock Co., Inc., Portland, Oreg. "Sanitary Milk Bottle Lock." (For Milk-Bottle Locks.) No. 4,056; Sept. 14; Gaz. vol. 218; p. 601.
- Scheur & Company, New York, N. Y. "Hercules Brand French Refined." (For Human-Hair Goods.) No. 3,800; Jan. 12; Gaz. vol. 210; p. 716.
- Schulze Baking Company, Chicago, Ill. "Always Buy Schulzes Butter-Nut Bread." (For Bread.) No. 4,053; Sept. 7; Gaz. vol. 218; p. 320.
- Schulze, Paul, Chicago, Ill. "Luxury." (For Cake.) No. 3,949; June 15; Gaz. vol. 215; p. 976.
- Schulze, Paul, Chicago, Ill. "Big-Dandy." (For Bread.) No. 3,950; June 15; Gaz. vol. 215; p. 976.
- Scott, Harry L., Baltimore, Md. "Scott, The Ice Cream Man." (For Ice-Cream.) No. 4,116; Nov. 2; Gaz. vol. 220; p. 348.
- Sears, Roebuck and Co., Chicago, Ill. "Your Ideal Bed is Realized." (For a Tuftless Mattress.) No. 4,115; Nov. 2; Gaz. vol. 220; p. 348.
- Sellers, E. J., Kutztown, Pa. "Sellers Goldline Hair Tonic." (For a Hair-Tonic.) No. 4,035; Aug. 24; Gaz. vol. 217; p. 1340.
- Shredded Wheat Company, The, Niagara Falls, N. Y. "The Nations Food." (For Shredded Wheat.) No. 4,010; Aug. 3; Gaz. vol. 217; p. 338.
- Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat, Strawberries and Cream." (For Shredded Wheat.) No. 4,011; Aug. 3; Gaz. vol. 217; p. 338.
- Sicher, Dudley D. and S. A., New York, N. Y. "Dove." (For Undermuslins.) No. 4,017; Aug. 17; Gaz. vol. 217; p. 1053.
- Sicher, Samuel A. (See Sicher, Dudley D. and S. A.)
- Silverman, Katherine, New York, N. Y. "Maiden America." (For Dolls.) No. 4,117; Nov. 2; Gaz. vol. 220; p. 348.
- Smith, De Wane B., Utica, N. Y. "The Canvas Tread Tire." (For Canvas-Tread Tires.) No. 3,806; Feb. 2; Gaz. vol. 211; p. 284.
- Snow, Edgar H., Kansas City, Mo. "Big Dan." (For Nickel Alarm-Clocks.) No. 4,099; Oct. 19; Gaz. vol. 219; p. 928.
- South Texas Grain Company, Houston, Tex. "Egaday." (For Poultry Feed.) No. 4,100; Oct. 19; Gaz. vol. 219; p. 928.
- Standard Oil Company, Chicago, Ill. "Polarine." (For Motor-Oil.) No. 4,045; Aug. 31; Gaz. vol. 217; p. 1659.
- Standard Oil Company, Chicago, Ill. "The Cold Weather Motor Oil." (For Motor-Oil.) No. 4,046; Aug. 31; Gaz. vol. 217; p. 1659.
- Stephen F. Whitman & Son, Philadelphia, Pa. "Whitman's Sampler." (For Candies.) No. 3,802; Jan. 12; Gaz. vol. 210; p. 716.
- Strong, Wm. J. H., Beloit, Wis. "Self Condensing Steam Turbine." (For Steam-Turbines and Parts Thereof.) No. 3,831; Feb. 23; Gaz. vol. 211; p. 1262.
- Strouse & Brothers, Baltimore, Md. "Clothing Swatch Folder." (For Men's Clothing.) No. 4,137; Nov. 30; Gaz. vol. 220; p. 1717.
- Sullivan & Co., P., Cincinnati, Ohio. "Sullivan's Relief Shu For Tender Feet." (For Shoes.) No. 4,002; July 27; Gaz. vol. 216; p. 1318.
- Sunseri, Philip, McKeesport, Pa. "Sunseri Brand." (For Olive-Oil.) No. 4,036; Aug. 24; Gaz. vol. 217; p. 1340.
- Thos. Cusack Company, Chicago, Ill. "Look Around! There's an Owl dealer right near you." (For Cigars.) No. 3,835; Mar. 9; Gaz. vol. 212; p. 687.
- Thos. Cusack Company, Chicago, Ill. "Workmanship"—hand workmanship counts heavily in a cigar." (For Cigars.) No. 3,836; Mar. 9; Gaz. vol. 212; p. 687.
- Thos. Cusack Company, Chicago, Ill. "Eleven busy Owl Factories Prove what smokers think of me." (For Cigars.) No. 3,837; Mar. 9; Gaz. vol. 212; p. 687.
- Thos. Cusack Company, Chicago, Ill. "For the love of mildness! Light up another!" (For Cigars.) No. 3,838; Mar. 9; Gaz. vol. 212; p. 687.
- Thos. Cusack Company, Chicago, Ill. "Hand work makes me—Head work buys me." (For Cigars.) No. 3,839; Mar. 9; Gaz. vol. 212; p. 687.
- Thos. Cusack Company, Chicago, Ill. "Eleven busy Owl Factories Prove what smokers think of me." (For Cigars.) Nos. 3,840-1; Mar. 9; Gaz. vol. 212; p. 687.
- Thos. Cusack Company, Chicago, Ill. "Piedmont Cigarettes Of Quality." (For Piedmont Cigarettes.) No. 3,842; Mar. 9; Gaz. vol. 212; p. 687.
- Thos. Cusack Company, Chicago, Ill. "Under daily Government Inspection!" (For Margarin.) No. 3,858; Apr. 13; Gaz. vol. 213; p. 748.
- Thos. Cusack Company, Chicago, Ill. "Needs but One Trial." (For American Family Soap.) No. 3,873; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "No Chance for an Argument." (For American Family Soap.) No. 3,874; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Have Compassion on Your Clothes." (For American Family Soap.) No. 3,875; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Clean, Sweet Clothes with the Least Effort." (For American Family Soap.) No. 3,876; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Fragrant and Refreshing." (For Jap Rose Soap.) No. 3,877; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Save Your Wrappers. They are Valuable." (For American Family Soap.) No. 3,878; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Drive the Dirt Out." (For American Family Soap.) No. 3,880; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Very Effective with Cold Water." (For American Family Soap.) No. 3,881; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Makes The Dirt Fly." (For American Family Soap.) No. 3,882; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Good results with Cold Water." (For American Family Soap.) No. 3,883; Apr. 27; Gaz. vol. 213; p. 1446.
- Thos. Cusack Company, Chicago, Ill. "Extreme positions without strain anywhere." (For Underwear.) No. 3,918; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Models for all shapes." (For Underwear.) No. 3,919; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Ease—Comfort." (For Underwear.) No. 3,920; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Closed comfortable trouser crotch." (For Underwear.) No. 3,921; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Adjusted in a jiffy." (For Underwear.) No. 3,922; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Rockinchair." (For Underwear.) No. 3,923; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Tailored Union Suits." (For Underwear.) No. 3,924; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Natural Blouse fullness for extreme positions." (For Underwear.) No. 3,925; May 25; Gaz. vol. 214; p. 1318.

- Thos. Cusack Company, Chicago, Ill. "Regulars Short Stouts Slim Jims." (For Underwear.) No. 3,926; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "\$1 to \$6 a suit." (For Underwear.) No. 3,927; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Ease, Comfort." (For Underwear.) No. 3,928; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "No hot webbing necessary at the waist." (For Underwear.) No. 3,929; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Crotch exactly like your trousers." (For Underwear.) No. 3,930; May 25; Gaz. vol. 214; p. 1318.
- Thos. Cusack Company, Chicago, Ill. "Try it and you'll buy it." (For Margarin.) No. 4,012; Aug. 10; Gaz. vol. 217; p. 698.
- Thos. Cusack Company, Chicago, Ill. "Always good—all ways." (For Sausage.) No. 4,059; Sept. 21; Gaz. vol. 218; p. 874.
- Thos. Cusack Company, Chicago, Ill. "Ask Dad, he knows." (For Cigarettes.) No. 4,060; Sept. 21; Gaz. vol. 218; p. 874.
- Thos. Cusack Company, Chicago, Ill. "Why are they sold in every Club and Hotel?" (For Cigarettes.) No. 4,061; Sept. 21; Gaz. vol. 218; p. 874.
- Thos. Cusack Company, Chicago, Ill. "Buy Coffee From Your Grocer—he is Reliable." (For Coffee.) No. 4,124; Nov. 16; Gaz. vol. 220; p. 1041.
- Thos. Cusack Company, Chicago, Ill. "Yes, Bud! I've Switched to Pure Gold." (For Tobacco.) No. 4,125; Nov. 16; Gaz. vol. 220; p. 1041.
- Thos. Cusack Company, Chicago, Ill. "— put that in your pipe and smoke it." (For Smoking-Tobacco.) No. 4,142; Dec. 7; Gaz. vol. 221; p. 349.
- Times Square Automobile Co., New York, N. Y. "Price Wrecker." (For Automobiles, Accessories, Tires, and Parts.) No. 4,003; July 27; Gaz. vol. 216; p. 1318.
- Trembley, Mark M., Washington, D. C. "Loaves of Bread." (For Bread.) No. 4,004; July 27; Gaz. vol. 216; p. 1318.
- Trembley, Mark M., Washington, D. C. "Full View." (For Cake.) No. 4,005; July 27; Gaz. vol. 216; p. 1318.
- Trembley, Mark M., Washington, D. C. "The Bottom Nutritious." (For Pastry.) No. 4,006; July 27; Gaz. vol. 216; p. 1318.
- Trembley, Mark M., Washington, D. C. "Nothing to Conceal." (For Pastry and Confectionery.) No. 4,007; July 27; Gaz. vol. 216; p. 1318.
- Trembley, Mark M., Washington, D. C. "Wholesome from the bottom up." (For Bread.) No. 4,018; Aug. 17; Gaz. vol. 217; p. 1053.
- Trembley, Mark M., Washington, D. C. "The Penetrating Test." (For Cake, Candies, Fruits, Jellies, Ice-Cream, Liquids, Fabrics, Lumber, Paper, and Pigments.) No. 4,047; Aug. 31; Gaz. vol. 217; p. 1659.
- United Fuel & Supply Co., Inc., Detroit, Mich. "Build For The Ages." (For Tile, Lining, Brick, Stucco, Roofing, Cement, Plaster, Lime, Stone, Gravel, Sand, and Pipe.) No. 3,863; Apr. 13; Gaz. vol. 213; p. 748.
- United Manufacturers Service Corporation, Wilmington, Del., and New York, N. Y. "Economy Coupons." (For Certain Named Foods.) No. 4,019; Aug. 17; Gaz. vol. 217; p. 1053.
- Utica Ice Cream Company, Utica, N. Y. "Dan D. Cream." (For Ice-Cream and Ices.) No. 4,138; Nov. 30; Gaz. vol. 220; p. 1717.
- Vacuum Oil Company, New York, N. Y. "Oils that Lubricate Most." (For Oils.) Nos. 4,083-5; Oct. 12; Gaz. vol. 219; p. 585.
- Valentine & Company, New York, N. Y. "Valentine's Valspar—The Varnish that won't turn white." (For Valentine's Valspar.) No. 3,846; Mar. 9; Gaz. vol. 212; p. 687.
- Vogel, Palmer E., Milwaukee, Wis. "The Iron Cross Cigar, Palmer E. Vogel." (For Cigars.) No. 3,864; Apr. 13; Gaz. vol. 213; p. 748.
- Ward Baking Company, New York, N. Y. "Ward Baking Company's Housekeepers Coupon." (For Bread.) Nos. 4,139-40; Nov. 30; Gaz. vol. 220; p. 1717.
- Warfield, Thomas O., Omaha, Nebr. "Don't Send Me One Penny." (For Automobiles.) No. 4,151; Dec. 21; Gaz. vol. 221; p. 1037.
- Weatherproof Calking Company, Minneapolis, Minn. "Weatherproofing." (For Calking-Paste.) No. 3,997; July 13; Gaz. vol. 216; p. 662.
- Weisel, Carl, Milwaukee, Wis. "Weisel's Superior Sausage Of Unequaled Quality and Purity." (For Sausages.) No. 3,801; Jan. 12; Gaz. vol. 210; p. 716.
- Welch Grape Juice Company, The, Westfield, N. Y. "Welch's—The National Drink." (For Unfermented Grape-Juice.) No. 3,819; Feb. 23; Gaz. vol. 211; p. 1262.
- Welch Grape Juice Company, The, Westfield, N. Y. "Welch's—The National Drink." (For Welch's Grape-Juice.) No. 3,865; Apr. 13; Gaz. vol. 213; p. 748.
- West, Julius A., Washington, D. C. "The Sweater Shop." (For Sweater-Garments.) No. 3,916; May 18; Gaz. vol. 214; p. 1024.
- White Company, The, Cleveland, Ohio. "The Latest White Six-Sixty Limousine." (For White Limousine-Cars.) No. 3,866; Apr. 13; Gaz. vol. 213; p. 748.
- White Company, The, Cleveland, Ohio. "The Latest White Forty-Four-Five Touring." (For White Touring-Cars.) No. 3,867; Apr. 13; Gaz. vol. 213; p. 748.
- White Company, The, Cleveland, Ohio. "The Latest White Four-Thirty Town Car." (For White Town-Cars.) No. 3,868; Apr. 13; Gaz. vol. 213; p. 748.
- White Company, The, Cleveland, Ohio. "The Latest White 'Six-Sixty Touring.'" (For White Touring-Cars.) No. 3,869; Apr. 13; Gaz. vol. 213; p. 748.
- White Company, The, Cleveland, Ohio. "The Latest White Four-Thirty Touring." (For Touring-Cars.) No. 3,894; May 4; Gaz. vol. 214; p. 342.
- White Company, The, Cleveland, Ohio. "The Latest White Four-Forty-Five Landaulet-Limousine." (For Landaulet-Limousines.) No. 3,895; May 4; Gaz. vol. 214; p. 342.
- William Carter Co., The, Needham Heights, Mass. "Carter's Knit Underwear Please." (For Knit Underwear.) No. 3,910; June 8; Gaz. vol. 215; p. 665.
- William G. Bell Company, The, Boston, Mass. "Flavor Your Game With Bell's Spiced Seasoning." (For Spiced Seasoning.) No. 4,121; Nov. 16; Gaz. vol. 220; p. 1041.
- Winget Manufacturing Co. Inc., The, Minneapolis, Minn. "Priscilla." (For Headwear.) No. 4,055; Sept. 7; Gaz. vol. 218; p. 320.
- Wire Goods Company, The, Akron, Ohio. "The Cotter with the Point Facilitates Insertion." (For Cotters.) No. 4,057; Sept. 14; Gaz. vol. 218; p. 601.
- Wood-Wilson Company, Inc., The, New York, N. Y. "Young America Brand." (For Boys' Blouses, Shirts, Pajamas, and Night-Robes.) No. 3,896; May 4; Gaz. vol. 214; p. 342.
- Wm. J. Lemp Brewing Co., St. Louis, Mo. "Falstaff." (For Beer.) No. 3,815; Feb. 2; Gaz. vol. 211; p. 284.

DISCLAIMERS.

- Aldr**, Leo F., Albany, N. Y.; disclaimer filed by patentee. Eyeglasses. No. 991,766; disclaimer filed July 3, 1915; Gaz. vol. 216; p. 333.
- Bryant**, Courtney S., Greene, N. Y., disclaimer filed by assignee, Willis A. Schleitt. Heating system for incubators. (Reissue.) No. 13,515; disclaimer filed Sept. 28, 1915; Gaz. vol. 219; p. 274.
- Carter**, Alva J., Chicago, Ill.; disclaimer filed by assignee, Kellogg Switchboard and Supply Company. Party-line ringing-key. No. 1,099,164; disclaimer filed Jan. 20, 1915; Gaz. vol. 210; p. 1400.
- Coldwell**, Joseph, and Christopher G. Gildard, Fall River, Mass.; disclaimer filed by assignee, The Coldwell-Gildard Co., and licensees, Crompton & Knowles Loom Works and Draper Company. Warp stop-motion for looms. (Reissue.) No. 11,923; disclaimer filed Jan. 19, 1915; Gaz. vol. 210; p. 1400.
- Dicks**, Thomas A., and W. A. Warman, Niagara Falls, N. Y.; disclaimer filed by assignee, The Dicks Press Guard Manufacturing Company. Safety attachment for presses. No. 618,065; disclaimer filed July 6, 1915; Gaz. vol. 216; p. 333.
- Enoch**, Walter, New York, N. Y.; disclaimer filed by patentee. Dress-form. No. 1,116,047; disclaimer filed Mar. 12, 1915; Gaz. vol. 212; p. 1360.
- Fleming**, John A., London, England; disclaimer filed by assignee, Marconi Wireless Telegraph Company of America. Instrument for converting alternating electric currents into continuous currents. No. 803,604; disclaimer filed Nov. 17, 1915; Gaz. vol. 220; p. 1047.
- Foster**, Joel M., Brown Mills, N. J.; disclaimer filed by patentee. Poultry exerciser and feeder. No. 1,108,566; disclaimer filed Feb. 6, 1915; Gaz. vol. 211; p. 958.
- Hogan**, John L., Jr., Brant Rock, Mass.; disclaimer filed by receivers of the assignee, National Electric Signaling Company. Apparatus for wireless signaling. No. 1,014,002; disclaimer filed Mar. 23, 1915; Gaz. vol. 212; p. 1692.
- Kast**, Edward R., Baltimore, Md.; disclaimer filed by inventor and assignee, The Kast Insetting and Gathering Machine Company. Signature-handling mechanism. No. 1,083,617; disclaimer filed Apr. 28, 1915; Gaz. vol. 214; p. 346.
- Katzenberger**, Oscar, Chicago, Ill.; disclaimer filed by patentee. Alining-plate for floor-hinges. No. 1,037,149; disclaimer filed Oct. 6, 1915; Gaz. vol. 219; p. 591.
- Kennedy**, David S., Brooklyn, N. Y.; disclaimer filed by assignee, Mergenthaler Linotype Company. Typographical machine. No. 1,091,347; disclaimer filed June 28, 1915; Gaz. vol. 216; p. 1.
- Kenny**, David T., North Plainfield, N. J.; disclaimer filed by assignee, Vacuum Cleaner Company. Apparatus for removing dust. No. 847,947; disclaimer filed Nov. 19, 1915; Gaz. vol. 221; p. 1.
- Lilliston**, Thomas M., Suffolk, Va.; disclaimer filed by assignee, National Machine Corporation. Peanut-picker. (Reissue.) No. 13,717; disclaimer filed Jan. 27, 1915; Gaz. vol. 211; p. 958.
- Manson**, Ray H., Elyria, Ohio; disclaimer filed by the inventor and assignee by mesne assignments, The Garfield Manufacturing Company. Signaling device. No. 1,016,699; disclaimer filed Dec. 10, 1915; Gaz. vol. 221; p. 1043.
- Miggett**, William L., Ann Arbor, Mich.; disclaimer filed by the inventor. Automobile. No. 1,005,863; disclaimer filed Dec. 11, 1915; Gaz. vol. 221; p. 1043.
- Moran**, Daniel E., Mendham, N. J.; disclaimer filed by assignee, The Foundation Company. Caisson. No. 759,388; disclaimer filed Jan. 19, 1915; Gaz. vol. 210; p. 1400.
- Moran**, Daniel E., Mendham, N. J.; disclaimer filed by assignee, The Foundation Company. Caisson. No. 759,389; disclaimer filed Jan. 19, 1915; Gaz. vol. 210; p. 1400.
- Moran**, Daniel E., Mendham, N. J., and John W. Doty, New York, N. Y.; disclaimer filed by assignee, The Foundation Company. Caisson. No. 828,761; disclaimer filed Jan. 19, 1915; Gaz. vol. 210; p. 1400.
- Mumford**, Edgar H., Plainfield, N. J.; disclaimer filed by patentee. Jolt ramming-machine. No. 1,105,821; disclaimer filed Dec. 29, 1914; Gaz. vol. 210; p. 1.
- Norris**, Almon E., Cambridge, Mass.; disclaimer filed by assignees, Mead-Morrison Manufacturing Company. Hoisting apparatus. No. 1,071,010; disclaimer filed Nov. 18, 1915; Gaz. vol. 221; p. 742.
- Rietzel**, Adolph F., Lynn, Mass.; disclaimer filed by assignee, Thomson Electric Welding Company. Uniting the component parts of composite sheet-metal structures. No. 928,701; disclaimer filed June 12, 1915; Gaz. vol. 215; p. 1265.
- Webster**, Harry G., Chicago, Ill.; disclaimer filed by assignee, Kellogg Switchboard and Supply Company. Telephone system. No. 931,904; disclaimer filed Mar. 8, 1915; Gaz. vol. 212; p. 693.
- Willard**, Theodore A., Cleveland, Ohio; disclaimer filed by patentee and assignee, The Willard Storage Battery Company. Storage battery. No. 1,151,077; disclaimer filed Nov. 3, 1915; Gaz. vol. 220; p. 355.

ALPHABETICAL LIST OF INVENTIONS.

- Abdominal support. L. M. Finch. No. 1,139,656; May 18; Gaz. vol. 214; p. 755.
- Abdominal supporter. E. Belknap. No. 1,151,922; Aug. 31; Gaz. vol. 217; p. 1474.
- Abdominal supporter. J. G. Hynds. No. 1,126,765; Feb. 2; Gaz. vol. 211; p. 36.
- Abdominal supporter. E. M. Palmer. No. 1,150,300; Aug. 17; Gaz. vol. 217; p. 814.
- Abrading and polishing apparatus. T. Stiegemeyer. No. 1,158,327; Oct. 26; Gaz. vol. 219; p. 1168.
- Abrading-disk. C. Krug. No. 1,139,541; May 18; Gaz. vol. 214; p. 713.
- Abrading-machine. J. Kress. No. 1,132,192; Mar. 16; Gaz. vol. 212; p. 892.
- Abrading machinery. B. Nagelvoort. No. 1,149,396; Aug. 10; Gaz. vol. 217; p. 427.
- Abrading or polishing machine. D. T. Clemons. No. 1,145,184; July 6; Gaz. vol. 216; p. 73.
- Abrasion-testing machine. G. L. Norris. No. 1,156,803; Oct. 12; Gaz. vol. 219; p. 538.
- Abrasive. S. M. Bullock and H. S. Lloyd. No. 1,133,260; Mar. 30; Gaz. vol. 212; p. 1365.
- Abrasive. G. Virneburg. No. 1,141,371; June 1; Gaz. vol. 215; p. 102.
- Abrasive amalgamating-mill. J. B. Shackey. No. 1,161,418; Nov. 23; Gaz. vol. 220; p. 1194.
- Abrasive and making same, Electric-furnace. H. T. Kalms. No. 1,149,064; Aug. 3; Gaz. vol. 217; p. 205.
- Abrasive implement. J. C. Smith. No. 1,139,817; May 18; Gaz. vol. 214; p. 811.
- Abrasive wheel, Balanced. J. C. Spence. No. 1,130,210; Mar. 2; Gaz. vol. 212; p. 128.
- Abrasive wheels and the like, Forming and binding material for use in. J. G. Vail and J. D. Carter. No. 1,139,739; May 18; Gaz. vol. 214; p. 783.
- Absorbent comb. F. W. Maley. No. 1,147,681; July 20; Gaz. vol. 216; p. 988.
- Absorbent-cotton-wrapping machine, Automatic. I. Kornblüh. No. 1,140,044; May 18; Gaz. vol. 214; p. 892.
- Accounting device, Sectional. A. Nordeen. No. 1,126,650; Jan. 26; Gaz. vol. 210; p. 1337.
- Accordion. G. Anderson. No. 1,139,010; May 11; Gaz. vol. 214; p. 492.
- Accordions and the like, Transposing mechanism for. J. Galleazzi. No. 1,129,190; Feb. 23; Gaz. vol. 211; p. 1008.
- Account device, Credit. J. J. Snyder. No. 1,143,085; June 15; Gaz. vol. 215; p. 778.
- Account-register. S. H. Dodson. No. 1,165,948; Dec. 28; Gaz. vol. 221; p. 1247.
- Account-register. E. B. Moseley. No. 1,130,421; Mar. 2; Gaz. vol. 212; p. 202.
- Account-register. A. G. Ryley. No. 1,143,073; June 15; Gaz. vol. 215; p. 773.
- Account-register. A. G. Ryley. No. 1,150,389; Aug. 17; Gaz. vol. 217; p. 844.
- Account register, Credit. E. T. Silvius. No. 1,135,215; Apr. 13; Gaz. vol. 213; p. 446.
- Accounting appliance, Credit. G. Jacobs. No. 1,130,823; Mar. 9; Gaz. vol. 212; p. 375.
- Accounting-machines, Differential mechanism for. H. A. Martin. No. 1,153,328; Sept. 14; Gaz. vol. 218; p. 378.
- Accounting means. J. Maher. No. 1,130,832; Mar. 9; Gaz. vol. 212; p. 379.
- Accounting, Method and means for statistical. W. J. Crumpton. No. 1,138,089; May 4; Gaz. vol. 214; p. 130.
- Accounting register, Credit. E. T. Silvius. No. 1,135,214; Apr. 13; Gaz. vol. 213; p. 446.
- Accounting register, Credit. E. T. Silvius. No. 1,143,789; June 22; Gaz. vol. 215; p. 1044.
- Accounting register, Credit. E. T. Silvius. No. 1,162,522; Nov. 30; Gaz. vol. 220; p. 1622.
- Accounting system. F. O. Heuser. No. 1,147,020; July 20; Gaz. vol. 216; p. 756.
- Accounting system. F. O. Heuser. No. 1,157,625; Oct. 19; Gaz. vol. 219; p. 856.
- Accounting system. C. H. Tallmadge. No. 1,146,113; July 13; Gaz. vol. 216; p. 418.
- Accumulator power system. F. Samuelson. No. 1,129,735; Feb. 23; Gaz. vol. 211; p. 1196.
- Accumulator-testing device. O. P. Fritchle. No. 1,136,789; Apr. 20; Gaz. vol. 213; p. 1041.
- Accumulator, Variable volumetric. F. Samuelson. No. 1,129,734; Feb. 23; Gaz. vol. 211; p. 1195.
- Acetaldehyde from acetylene, Preparing. P. Duden and G. Peters. No. 1,151,928; Aug. 31; Gaz. vol. 217; p. 1476.
- Acetaldehyde from acetylene, Preparing. P. Duden and G. Peters. No. 1,151,929; Aug. 31; Gaz. vol. 217; p. 1476.
- Acetone from lecithin-containing substances, Removing. G. Fendler. No. 1,144,829; June 29; Gaz. vol. 215; p. 1435.
- Acetyl-cellulose composition, Non-inflammable. W. C. Lindsay. No. 1,133,385; Mar. 30; Gaz. vol. 212; p. 1410.
- Acetyl-cellulose plastic compounds, Making. W. G. Lindsay. No. 1,136,248; Apr. 20; Gaz. vol. 213; p. 849.
- Acetyl-cellulose plastics, Making. W. G. Lindsay. No. 1,128,468; Feb. 16; Gaz. vol. 211; p. 722.
- Acetylene-generating apparatus. H. W. Jacobs and H. H. Lanning. No. 1,152,512; Sept. 7; Gaz. vol. 218; p. 47.
- Acetylene-generator. G. L. Freeto. No. 1,141,182; June 1; Gaz. vol. 215; p. 32.
- Acetylene-generator. W. W. Harris. No. 1,157,385; Oct. 19; Gaz. vol. 219; p. 776.
- Acetylene-generator. W. W. Harris. No. 1,157,386; Oct. 19; Gaz. vol. 219; p. 777.
- Acetylene-generator. M. E. Loehr. No. 1,156,788; Oct. 12; Gaz. vol. 219; p. 534.
- Acetylene-generator. A. D. Long and L. D. Harper. No. 1,159,968; Nov. 9; Gaz. vol. 220; p. 582.
- Acetylene-generators, Water-shed for. A. S. Phelps. No. 1,138,685; May 11; Gaz. vol. 214; p. 375.
- Acetylene, Storing. C. Picard. No. 1,148,925; Aug. 3; Gaz. vol. 217; p. 156.
- Acid-absorbing apparatus. P. A. Paulson. No. 1,105,281; Dec. 21; Gaz. vol. 221; p. 976.
- Acid and arsenical compounds, Making arsenic. G. P. Fuller. No. 1,125,086; Jan. 19; Gaz. vol. 210; p. 742.
- Acid- and fireproof bodies, Producing. I. Schlossberg. No. 1,126,659; Jan. 26; Gaz. vol. 210; p. 1340.
- Acid anhydrid, Preparation of acetic. F. Kaufer. No. 1,152,098; Aug. 31; Gaz. vol. 217; p. 1535.
- Acid anhydrids or of mixtures of such anhydrids with their acids, Manufacture of organic. R. Müller. No. 1,153,402; Sept. 14; Gaz. vol. 218; p. 406.
- Acid, Apparatus and method for producing nitric. H. D. Rankin. No. 1,150,786; Aug. 17; Gaz. vol. 217; p. 981.
- Acid, Apparatus for making hydrochloric. H. Howard. No. 1,145,897; July 13; Gaz. vol. 216; p. 341.
- Acid compound, Diacidylpyrocatechin-ortho-carboxylic. E. Rietz. No. 1,140,716; May 25; Gaz. vol. 214; p. 1159.
- Acid compounds, Gallo-carboxylic. R. Berendes. No. 1,150,654; Aug. 17; Gaz. vol. 217; p. 937.
- Acid, Concentrating dilute nitric. E. Collett. No. 1,133,840; Mar. 30; Gaz. vol. 212; p. 1574.
- Acid, Concentrating dilute nitric. E. Collett. No. 1,154,289; Sept. 21; Gaz. vol. 218; p. 749.
- Acid, Concentrating dilute nitric. E. Collett. No. 1,158,181; Oct. 26; Gaz. vol. 219; p. 1117.
- Acid, Denitration of waste. C. R. Jahn. No. 1,149,585; Aug. 10; Gaz. vol. 217; p. 494.
- Acid derivative, 2,3-oxynaphthoic. M. Kahn and A. Osenbeck. No. 1,140,747; May 25; Gaz. vol. 214; p. 1171.
- Acid esters and their solutions, Orthovanadic. L. Hess. No. 1,133,961; Mar. 30; Gaz. vol. 212; p. 1613.
- Acid esters, Manufacture of carbohydrate phosphoric. H. K. A. S. von Euler-Chelpin. No. 1,139,321; Feb. 23; Gaz. vol. 211; p. 1054.
- Acid fermentation, Promoting. A. Pollak. No. 1,128,920; Jan. 5; Gaz. vol. 210; p. 247.
- Acid from acetylene by electrolysis, Producing acetic. C. Hansen and A. Weindel. No. 1,159,376; Nov. 9; Gaz. vol. 220; p. 368.
- Acid from acetylene, Producing acetic. C. Hansen and A. Weindel. No. 1,128,780; Feb. 16; Gaz. vol. 211; p. 828.
- Acid in phosphate-rocks, Rendering available the phosphoric. A. H. Cowles. No. 1,126,408; Jan. 26; Gaz. vol. 210; p. 1247.
- Acid, Making hydrochloric. H. Howard. No. 1,145,898; July 13; Gaz. vol. 216; p. 342.
- Acid, Making phosphoric. J. W. Burroughs. No. 1,142,397; June 8; Gaz. vol. 215; p. 499.
- Acid, Making sulfuric. H. Howard. No. 1,151,103; Aug. 24; Gaz. vol. 217; p. 1147.
- Acid, Making sulfuric. E. Taylor and F. P. Bergh. No. 1,157,455; Oct. 19; Gaz. vol. 219; p. 801.
- Acid, Manufacture of chemically-pure soluble silicic. B. Schwerin. No. 1,132,394; Mar. 16; Gaz. vol. 212; p. 966.
- Acid, Manufacture of hydrofluoric. H. B. Bishop. No. 1,150,415; Aug. 17; Gaz. vol. 217; p. 852.
- Acid, Manufacture of nitric. C. Uebel. No. 1,141,994; June 8; Gaz. vol. 215; p. 354.
- Acid, Manufacture of pure lactic. M. Landau. No. 1,157,402; Oct. 19; Gaz. vol. 219; p. 783.
- Acid, Manufacturing phosphate. F. C. Schmitz. No. 1,142,371; June 8; Gaz. vol. 215; p. 488.

- Acid, Method and apparatus for producing sulfuric. G. Schliebs. No. 1,151,294; Aug. 24; Gaz. vol. 217; p. 1212.
- Acid monocalcium phosphate, Producing. R. Stewart. No. 1,137,806; May 4; Gaz. vol. 214; p. 30.
- Acid of aromatic aminothiazoles, Sulfonic. J. Hulsmann. No. 1,149,582; Aug. 10; Gaz. vol. 217; p. 492.
- Acid of high concentration, Preparing nitric. M. Moest and M. Eckardt. No. 1,145,162; July 6; Gaz. vol. 216; p. 66.
- Acid phosphates and the like, Manufacturing and curing. G. L. Pratt. No. 1,137,531; Apr. 27; Gaz. vol. 213; p. 1344.
- Acid, Preparing nitrated aminobenzol arsinic. L. Ach, A. Rothmann, and H. Hatzig. No. 1,163,496; Dec. 7; Gaz. vol. 221; p. 266.
- Acid, Process and apparatus for concentrating dilute nitric. F. Raschid. No. 1,163,174; Dec. 7; Gaz. vol. 221; p. 154.
- Acid, Producing oxalic. E. von Portheim. No. 1,157,348; Oct. 19; Gaz. vol. 219; p. 763.
- Acid, Producing pyroligneous. E. H. French. No. 1,150,589; Aug. 17; Gaz. vol. 217; p. 914.
- Acid, Production of nitric. F. Raschig. No. 1,130,104; Mar. 2; Gaz. vol. 212; p. 91.
- Acid, Recovering high-grade phosphoric. F. S. Washburn. No. 1,149,233; Aug. 10; Gaz. vol. 217; p. 368.
- Acid, Rendering available phosphoric. W. S. Landis. No. 1,137,065; Apr. 27; Gaz. vol. 213; p. 1177.
- Acid sulfurous preparations, Apparatus for the manufacture of. F. E. Coombs. No. 1,147,376; July 20; Gaz. vol. 216; p. 880.
- Acid-tank. W. Sherratt. No. 1,125,193; Jan. 19; Gaz. vol. 210; p. 780.
- Acids, &c., Absorption and reaction tower for. F. Raschig. No. 1,141,266; June 1; Gaz. vol. 215; p. 62.
- Acids and making same, Arylated naphthylamin sulfonic. W. Habnenkamm. No. 1,125,311; Jan. 19; Gaz. vol. 210; p. 823.
- Acids and making same, Carbazol-sulfonic. A. Schmidt, G. Krönlein, and E. Runne. No. 1,128,369; Feb. 16; Gaz. vol. 211; p. 686.
- Acids and making same, Indophenolsulfonic. A. Schmidt and G. Krönlein. No. 1,128,370; Feb. 16; Gaz. vol. 211; p. 686.
- Acids and of their derivatives, Nitrosulfonylchlorids of ortho-oxy-carboxylic. R. Kothe and O. Dressel. No. 1,125,124; Jan. 19; Gaz. vol. 210; p. 754.
- Acids and their esters into saturated compounds, Converting unsaturated oleic and fatty. C. H. Hausmann. No. 1,145,480; July 6; Gaz. vol. 216; p. 178.
- Acids and their glycerids by combining them with hydrogen. Saturating unsaturated fatty. E. Utescher. No. 1,124,560; Jan. 12; Gaz. vol. 210; p. 520.
- Acids, Esters of carboxylarylphosphoric. M. Engelmänn. No. 1,125,081; Jan. 19; Gaz. vol. 210; p. 740.
- Acids, Manufacture of anhydrides of monobasic organic carboxy-. A. J. Van Peski. No. 1,136,630; Apr. 20; Gaz. vol. 213; p. 985.
- Acids, Manufacture of esters of oxy fatty. R. Gräfler and H. Pohl. No. 1,160,595; Nov. 16; Gaz. vol. 220; p. 854.
- Acids, Metal salts of polymethylenebisimino. C. Coutelle and A. Moré. No. 1,150,579; Aug. 17; Gaz. vol. 217; p. 911.
- Acids, Preparing 2-chloro-4-aminobenzene-1-arsinic. L. Ach, A. Rothmann, and H. Dieterich. No. 1,156,045; Oct. 12; Gaz. vol. 219; p. 277.
- Acoustic apparatus. E. A. Hawthorne. No. 1,158,049; Oct. 26; Gaz. vol. 219; p. 1070.
- Acoustic apparatus for detecting sound-vibrations in non-gaseous media. D. W. Allis. No. 1,149,610; Aug. 10; Gaz. vol. 217; p. 505.
- Acoustic diaphragm. W. W. Young. No. 1,153,837; Sept. 14; Gaz. vol. 218; p. 560.
- Acoustic diaphragm and the manufacture thereof, Metallic. E. Aufero. No. 1,146,773; July 13; Gaz. vol. 216; p. 649.
- Acoustic instrument. H. W. Hess. No. 1,138,755; May 11; Gaz. vol. 214; p. 401.
- Acrobat's stand. J. Wallin. No. 1,128,201; Feb. 9; Gaz. vol. 211; p. 579.
- Acrobatic tricks, Implement for. B. Weise. No. 1,141,292; June 1; Gaz. vol. 215; p. 73.
- Adding and calculating machine. A. A. Horton. No. 1,156,600; Oct. 12; Gaz. vol. 219; p. 468.
- Adding and listing machine. W. J. Kilpatrick. No. 1,152,517; Sept. 7; Gaz. vol. 218; p. 50.
- Adding and listing machine. F. F. Main. No. 1,123,337; Jan. 5; Gaz. vol. 210; p. 48.
- Adding and listing machine. J. G. Vincent. No. 1,157,465; Oct. 19; Gaz. vol. 219; p. 804.
- Adding and listing machine. J. G. Vincent. No. 1,166,096; Dec. 28; Gaz. vol. 221; p. 1299.
- Adding and recording machine. S. G. Dorman. No. 1,166,116; Dec. 28; Gaz. vol. 221; p. 1306.
- Adding and recording machine. H. Landsiedel. No. 1,138,875; May 11; Gaz. vol. 214; p. 444.
- Adding and recording machine. H. Landsiedel. No. 1,145,599; July 6; Gaz. vol. 216; p. 217.
- Adding and recording machine. J. Magnus. No. 1,131,849; Mar. 16; Gaz. vol. 212; p. 768.
- Adding and recording machine. J. Magnus. No. 1,134,958; Apr. 6; Gaz. vol. 213; p. 311.
- Adding and recording machine. J. Magnus. No. 1,137,508; Apr. 27; Gaz. vol. 213; p. 1337.
- Adding and recording machine. J. Raber. No. 1,158,717; Nov. 2; Gaz. vol. 220; p. 107.
- Adding and subtracting machine. E. S. Church. No. 1,142,931; June 15; Gaz. vol. 215; p. 723.
- Adding apparatus. J. Boss-Conzelmann. No. 1,154,367; Sept. 21; Gaz. vol. 218; p. 778.
- Adding attachment for credit-registers. F. J. Peterson. No. 1,151,123; Aug. 24; Gaz. vol. 217; p. 1154.
- Adding device. C. C. Harris. No. 1,129,978; Mar. 2; Gaz. vol. 212; p. 49.
- Adding device. G. R. Moore. No. 1,159,408; Nov. 9; Gaz. vol. 220; p. 380.
- Adding-machine. S. J. Cox. No. 1,147,146; July 20; Gaz. vol. 216; p. 799.
- Adding-machine. B. Dysart. No. 1,145,574; July 6; Gaz. vol. 216; p. 208.
- Adding-machine. G. Everson. No. 1,126,742; Feb. 2; Gaz. vol. 211; p. 27.
- Adding-machine. W. F. Gatewood. No. 1,123,515; Jan. 5; Gaz. vol. 210; p. 109.
- Adding-machine. H. Landsiedel. No. 1,141,348; June 1; Gaz. vol. 215; p. 92.
- Adding-machine. A. Macauley. No. 1,148,110; July 27; Gaz. vol. 216; p. 1167.
- Adding-machine. W. F. McCaleb. No. 1,153,129; Sept. 7; Gaz. vol. 218; p. 269.
- Adding-machine. C. N. McFarland. No. 1,150,949; Aug. 24; Gaz. vol. 217; p. 1096.
- Adding-machine. E. E. Patten. No. 1,153,820; Sept. 14; Gaz. vol. 218; p. 554.
- Adding-machine. F. C. Rinsche. No. 1,138,793; May 11; Gaz. vol. 214; p. 415.
- Adding-machine. W. E. Swalm. No. 1,131,620; Mar. 9; Gaz. vol. 212; p. 651.
- Adding-machine. W. F. Sweet and S. Tideman. No. 1,128,546; Feb. 16; Gaz. vol. 211; p. 748.
- Adding-machine. C. Wales. No. 1,132,753; Mar. 23; Gaz. vol. 212; p. 1146.
- Adding-machine operating-handle. G. J. Barrett. No. 1,130,463; Mar. 2; Gaz. vol. 212; p. 218.
- Adding-machine or the like. D. W. Shiek. No. 1,139,814; May 18; Gaz. vol. 214; p. 810.
- Adding-machine printing mechanism. J. C. Lotterhand. (Reissue.) No. 14,011; Nov. 16; Gaz. vol. 220; p. 1006.
- Adding-machine punctuating device. G. J. Barrett. No. 1,127,953; Feb. 9; Gaz. vol. 211; p. 494.
- Adding-machine signal mechanism. D. W. Shiek. No. 1,139,813; May 18; Gaz. vol. 214; p. 809.
- Adding-machines, Carrying means for. J. C. Lotterhand. (Reissue.) No. 13,997; Oct. 19; Gaz. vol. 219; p. 873.
- Adding-machines, &c., Controlling device for. C. W. Gooch. No. 1,150,937; Aug. 24; Gaz. vol. 217; p. 1092.
- Adding-machines, Manual operating device for. C. C. Dey. No. 1,133,939; Mar. 30; Gaz. vol. 212; p. 1606.
- Adding-machines, Restoring mechanism for. J. F. Culverwell. No. 1,141,940; June 8; Gaz. vol. 215; p. 337.
- Adding-machines, Selective cipher cut-out for. C. P. Wetmore and F. A. Niemann. No. 1,127,332; Feb. 2; Gaz. vol. 211; p. 232.
- Adding-machines, Tabulating mechanism for. J. J. Chapin. No. 1,135,500; Apr. 13; Gaz. vol. 213; p. 545.
- Adding mechanism, Motor-operated. C. F. Laganke and J. A. Smith. No. 1,135,118; Apr. 13; Gaz. vol. 213; p. 413.
- Address-plate, Selective. U. G. Lee. No. 1,139,544; May 18; Gaz. vol. 214; p. 714.
- Addressing and proving machine (semi-automatic). U. G. Lee. No. 1,162,620; Nov. 30; Gaz. vol. 220; p. 1652.
- Addressing-machine. E. G. Ernst. No. 1,149,354; Aug. 10; Gaz. vol. 217; p. 413.
- Addressing-machine. U. G. Lee. No. 1,137,066; Apr. 27; Gaz. vol. 213; p. 1177.
- Addressing-machine. U. G. Lee. No. 1,141,065; May 25; Gaz. vol. 214; p. 1282.
- Addressing-machine. L. McMillan. No. 1,150,784; Aug. 17; Gaz. vol. 217; p. 980.
- Addressing-machine. R. N. Rogers. No. 1,125,180; Jan. 19; Gaz. vol. 210; p. 776.
- Addressing-machine. C. I. W. Smith. No. 1,144,617; June 29; Gaz. vol. 215; p. 1360.
- Addressing-machine, Selective. E. D. Belknap. No. 1,134,096; Apr. 6; Gaz. vol. 213; p. 5.
- Addressing-machine with multiple-impression controller. U. G. Lee. No. 1,162,621; Nov. 30; Gaz. vol. 220; p. 1653.
- Adhesive-applying mechanism. E. W. Labombarde. No. 1,130,744; Mar. 9; Gaz. vol. 212; p. 349.
- Adhesive-coated fabric, Machine for treating. J. Meade. No. 1,137,511; Apr. 27; Gaz. vol. 213; p. 1338.
- Adhesive-plaster container. P. S. Bauer. No. 1,166,352; Dec. 28; Gaz. vol. 221; p. 1393.
- Adhesive to be employed in the manufacture of paper-walled vessels. F. P. Wood. No. 1,137,043; Apr. 27; Gaz. vol. 213; p. 1169.
- Adjustable and collapsible stand. G. Gronlund. No. 1,164,714; Dec. 21; Gaz. vol. 221; p. 777.

Alphabetical list of inventions—Continued.

- Adjustable bracket. W. O. Gilbert. No. 1,142,694; June 8; Gaz. vol. 215; p. 600.
- Adjustable bracket. W. W. Griffiths. No. 1,144,470; June 20; Gaz. vol. 215; p. 1312.
- Adjustable chair. M. Hanson. No. 1,124,429; Jan. 12; Gaz. vol. 210; p. 472.
- Adjustable chair. D. Pepper. No. 1,125,167; Jan. 19; Gaz. vol. 210; p. 771.
- Adjustable chair. O. H. and A. F. Pieper. No. 1,137,080; Apr. 27; Gaz. vol. 213; p. 1182.
- Adjustable chair. J. F. Walton. No. 1,137,246; Apr. 27; Gaz. vol. 213; p. 1243.
- Adjustable clamp. L. Fort. No. 1,128,593; Feb. 16; Gaz. vol. 211; p. 764.
- Adjustable-combustion-chamber furnace. C. J. Johnson. No. 1,126,674; Jan. 26; Gaz. vol. 210; p. 1345.
- Adjustable coupling. A. H. Blanchard. No. 1,125,642; Jan. 19; Gaz. vol. 210; p. 939.
- Adjustable gate. L. H. Bowers. No. 1,147,602; July 20; Gaz. vol. 216; p. 960.
- Adjustable indicator. J. H. Rand. No. 1,149,082; Aug. 3; Gaz. vol. 217; p. 211.
- Adjustable joint. M. E. Scannell. No. 1,159,422; Nov. 9; Gaz. vol. 220; p. 385.
- Adjustable seat. F. W. Coy. No. 1,143,947; June 22; Gaz. vol. 215; p. 1100.
- Adjustable wrench. A. D. Chapman. No. 1,162,136; Nov. 30; Gaz. vol. 220; p. 1490.
- Adjustable wrench. H. P. Lutz. No. 1,143,600; June 15; Gaz. vol. 215; p. 957.
- Adjustable wrench. C. E. and A. Oatman. No. 1,163,845; Dec. 14; Gaz. vol. 221; p. 435.
- Adjusting device. O. Eppensteln. No. 1,142,756; June 8; Gaz. vol. 215; p. 620.
- Adjusting-post. B. Ames. No. 1,140,433; May 25; Gaz. vol. 214; p. 1062.
- Advertisement device. S. C. Martin. No. 1,154,124; Sept. 21; Gaz. vol. 218; p. 692.
- Advertiser, Protector. M. G. Duhan. No. 1,127,872; Feb. 9; Gaz. vol. 211; p. 465.
- Advertising apparatus. S. M. Hirsch. No. 1,138,478; May 4; Gaz. vol. 214; p. 266.
- Advertising apparatus. G. A. Johnson and P. Pedersen. No. 1,132,852; Mar. 23; Gaz. vol. 212; p. 1183.
- Advertising apparatus. C. H. King. No. 1,165,182; Dec. 21; Gaz. vol. 221; p. 943.
- Advertising apparatus. E. Mossé. No. 1,128,488; Feb. 16; Gaz. vol. 211; p. 727.
- Advertising apparatus. R. Overfield, L. B. Hamsley, and E. Burns. No. 1,139,795; May 18; Gaz. vol. 214; p. 803.
- Advertising apparatus. A. F. de Saint-Romain. No. 1,165,397; Dec. 28; Gaz. vol. 221; p. 1055.
- Advertising-cabinet. A. S. Machen. No. 1,137,072; Apr. 27; Gaz. vol. 213; p. 1179.
- Advertising-card and display-box, Combined. W. D. Roy. No. 1,128,052; Feb. 9; Gaz. vol. 211; p. 527.
- Advertising-carton. W. T. Jefferson. No. 1,148,233; July 27; Gaz. vol. 216; p. 1208.
- Advertising device. R. G. Adams. No. 1,124,245; Jan. 12; Gaz. vol. 210; p. 405.
- Advertising device. J. U. Barr. No. 1,146,839; July 20; Gaz. vol. 216; p. 692.
- Advertising device. W. F. Becker. No. 1,144,096; June 22; Gaz. vol. 215; p. 1153.
- Advertising device. H. J. Cusack. No. 1,140,446; May 25; Gaz. vol. 214; p. 1066.
- Advertising device. R. F. Dunham. No. 1,138,737; May 11; Gaz. vol. 214; p. 394.
- Advertising device. G. C. Edwards. No. 1,149,347; Aug. 10; Gaz. vol. 217; p. 410.
- Advertising device. F. R. Emery. No. 1,133,463; Mar. 30; Gaz. vol. 212; p. 1437.
- Advertising device. J. B. Furber. No. 1,140,148; May 18; Gaz. vol. 214; p. 928.
- Advertising device. G. Isenberg. No. 1,144,707; June 29; Gaz. vol. 215; p. 1393.
- Advertising device. A. H. Reid. No. 1,158,849; Nov. 2; Gaz. vol. 220; p. 155.
- Advertising device. C. H. Rettman. No. 1,163,771; Dec. 14; Gaz. vol. 221; p. 408.
- Advertising device. H. W. Seiter. No. 1,132,981; Mar. 23; Gaz. vol. 212; p. 1231.
- Advertising device. H. S. Shafer. No. 1,139,812; May 18; Gaz. vol. 214; p. 809.
- Advertising device. J. Strandens. No. 1,147,689; July 20; Gaz. vol. 216; p. 990.
- Advertising device. G. Trefs. No. 1,150,404; Aug. 17; Gaz. vol. 217; p. 849.
- Advertising device. W. B. Wheeler. No. 1,144,673; June 29; Gaz. vol. 215; p. 1380.
- Advertising device and the like. H. K. Harris. No. 1,138,471; May 4; Gaz. vol. 214; p. 264.
- Advertising device, Moving. J. T. Prout. No. 1,160,319; Nov. 16; Gaz. vol. 220; p. 756.
- Advertising device, Novelty. L. M. Bowman. No. 1,126,373; Jan. 26; Gaz. vol. 210; p. 1236.
- Advertising device, Time-controlled. F. R. and C. P. Davis. No. 1,138,090; May 4; Gaz. vol. 214; p. 130.
- Advertising-display device. J. A. Proulx. No. 1,125,393; Jan. 19; Gaz. vol. 210; p. 854.
- Advertising-display machine, Automatic. L. T. Tuttle. No. 1,144,621; June 29; Gaz. vol. 215; p. 1362.
- Advertising-folder. O. Valasek. No. 1,134,082; Mar. 30; Gaz. vol. 212; p. 1654.
- Advertising-machine, Automatic slide. R. H. Legg and C. W. Bierix. No. 1,165,310; Dec. 21; Gaz. vol. 221; p. 985.
- Advertising mechanism. A. Gottschalk and J. S. Hollowell. No. 1,140,675; May 25; Gaz. vol. 214; p. 1146.
- Advertising method and apparatus. F. T. Hopkins. No. 1,152,092; Aug. 31; Gaz. vol. 217; p. 1533.
- Advertising novelty. R. L. Foster. No. 1,162,230; Nov. 30; Gaz. vol. 220; p. 1521.
- Advertising novelty. W. H. Knobloch. No. 1,152,028; Aug. 31; Gaz. vol. 217; p. 1511.
- Advertising or display device. W. D. Roy. No. 1,146,103; July 13; Gaz. vol. 216; p. 415.
- Advertising twine-box. H. K. Kiso. No. 1,159,954; Nov. 9; Gaz. vol. 220; p. 577.
- Adzing and boring machine. G. B. Shipley. No. 1,161,986; Nov. 30; Gaz. vol. 220; p. 1436.
- Aerating device. D. Winbray. No. 1,150,238; Aug. 17; Gaz. vol. 217; p. 792.
- Aerating device, Liquid. H. V. R. Read. No. 1,126,865; Feb. 2; Gaz. vol. 211; p. 71.
- Aerial and like vessel. G. S. Dodman. No. 1,144,177; June 22; Gaz. vol. 215; p. 1183.
- Aerial apparatus. E. F. Dahill and G. R. Bartlett. No. 1,127,411; Feb. 9; Gaz. vol. 211; p. 301.
- Aerial bomb. A. Parsons. No. 1,159,704; Nov. 9; Gaz. vol. 220; p. 486.
- Aerial cableway. W. E. Johnson. No. 1,159,390; Nov. 9; Gaz. vol. 220; p. 373.
- Aerial conductor. C. S. Franklin. No. 1,141,387; June 1; Gaz. vol. 215; p. 108.
- Aerial conveyer. R. Waddell; No. 1,140,725; May 25; Gaz. vol. 214; p. 1162.
- Aerial conveyer system. B. C. Ball. No. 1,164,628; Dec. 21; Gaz. vol. 221; p. 748.
- Aerial landing and launching appliance. F. Steffan. No. 1,144,505; June 29; Gaz. vol. 215; p. 1323.
- Aerial machine. J. C. Hansen-Ellehammer and N. W. Aasen. No. 1,155,485; Oct. 5; Gaz. vol. 219; p. 57.
- Aerial machine. W. S. Williams. No. 1,150,650; Aug. 17; Gaz. vol. 217; p. 935.
- Aerial machines, Device for propelling. V. and V. Lorenc. No. 1,132,368; Mar. 16; Gaz. vol. 212; p. 956.
- Aerial-navigation machine. H. C. Berry. No. 1,133,609; Mar. 30; Gaz. vol. 212; p. 1491.
- Aerial navigation, Signaling apparatus for. R. A. Fessenden. No. 1,158,124; Oct. 26; Gaz. vol. 219; p. 1097.
- Aerial propeller. W. S. and A. H. Barrows. No. 1,144,521; June 29; Gaz. vol. 215; p. 1328.
- Aerial propeller. A. A. D. Lang. No. 1,150,436; Aug. 17; Gaz. vol. 217; p. 859.
- Aerial vehicle. R. D. Andrews. No. 1,145,960; July 13; Gaz. vol. 216; p. 363.
- Aerial vehicle. A. Beurrier and J. E. Bigourdan. No. 1,147,294; July 20; Gaz. vol. 216; p. 850.
- Aero, hydro, and auto plane, Combined. B. Drojinski. No. 1,143,894; June 22; Gaz. vol. 215; p. 1081.
- Aerocraft. F. W. Gore. No. 1,123,729; Jan. 5; Gaz. vol. 210; p. 181.
- Aerohydroplane. E. F. Gallaudet. No. 1,165,770; Dec. 28; Gaz. vol. 221; p. 1186.
- Aerohydroplane. J. Schlesinger. No. 1,150,970; Aug. 24; Gaz. vol. 217; p. 1102.
- Aeromobile. J. E. Harriman, Jr. No. 1,161,664; Nov. 23; Gaz. vol. 220; p. 1277.
- Aeronautical apparatus. H. W. Schmidt. No. 1,135,056; Apr. 13; Gaz. vol. 213; p. 393.
- Aeronautical machines, Construction of. J. R. Porter. No. 1,123,589; Jan. 5; Gaz. vol. 210; p. 133.
- Aeroplane. W. S. and A. H. Barrows. No. 1,124,584; Jan. 12; Gaz. vol. 210; p. 528.
- Aeroplane. A. P. Biais, J. J. Cambou, and C. M. J. Bailod. No. 1,127,167; Feb. 2; Gaz. vol. 211; p. 177.
- Aeroplane. A. P. Biais, J. J. Cambou, and C. M. J. Bailod. No. 1,153,752; Sept. 14; Gaz. vol. 218; p. 529.
- Aeroplane. J. M. C. Bryant. No. 1,123,479; Jan. 5; Gaz. vol. 210; p. 96.
- Aeroplane. B. I. Buraczewski. No. 1,151,862; Aug. 31; Gaz. vol. 217; p. 1455.
- Aeroplane. H. B. Chalmers. No. 1,145,972; July 13; Gaz. vol. 216; p. 368.
- Aeroplane. H. B. Chalmers. No. 1,145,973; July 13; Gaz. vol. 216; p. 369.
- Aeroplane. J. Chmielewski. No. 1,125,652; Jan. 19; Gaz. vol. 210; p. 943.
- Aeroplane. C. R. Clapp. No. 1,157,616; Oct. 19; Gaz. vol. 219; p. 853.
- Aeroplane. M. E. Clark. No. 1,140,444; May 25; Gaz. vol. 214; p. 1066.
- Aeroplane. J. M. Deitrich. No. 1,157,371; Oct. 19; Gaz. vol. 219; p. 772.
- Aeroplane. J. P. Erle. No. 1,153,612; Sept. 14; Gaz. vol. 218; p. 482.
- Aeroplane. F. F. Foate. No. 1,123,720; Jan. 5; Gaz. vol. 210; p. 178.
- Aeroplane. W. V. Gage. No. 1,151,172; Aug. 24; Gaz. vol. 217; p. 1171.

Alphabetical list of inventions—Continued.

- Aeroplane. E. F. Gallaudet. No. 1,145,013; July 6; Gaz. vol. 216; p. 12.
- Aeroplane. G. G. Girouard. No. 1,163,231; Dec. 7; Gaz. vol. 221; p. 174.
- Aeroplane. C. U. Greeley. No. 1,133,559; Mar. 30; Gaz. vol. 212; p. 1472.
- Aeroplane. G. A. Henderson. No. 1,164,717; Dec. 21; Gaz. vol. 221; p. 778.
- Aeroplane. C. Johnson. No. 1,144,847; June 29; Gaz. vol. 215; p. 1442.
- Aeroplane. A. J. Kloneck. No. 1,145,319; July 6; Gaz. vol. 216; p. 119.
- Aeroplane. M. C. Krarup. No. 1,129,874; Mar. 2; Gaz. vol. 212; p. 14.
- Aeroplane. W. C. Lawson. No. 1,127,651; Feb. 9; Gaz. vol. 211; p. 383.
- Aeroplane. G. Lehberger. No. 1,166,061; Dec. 28; Gaz. vol. 221; p. 1285.
- Aeroplane. B. L. Mareness. No. 1,145,695; July 6; Gaz. vol. 216; p. 252.
- Aeroplane. F. McCarroll. No. 1,152,743; Sept. 7; Gaz. vol. 218; p. 133.
- Aeroplane. C. Munker. No. 1,152,432; Sept. 7; Gaz. vol. 218; p. 17.
- Aeroplane. H. A. Orme. No. 1,153,248; Sept. 14; Gaz. vol. 218; p. 350.
- Aeroplane. E. C. Parsons. No. 1,141,002; May 25; Gaz. vol. 214; p. 1262.
- Aeroplane. A. G. Paxton. No. 1,123,360; Jan. 5; Gaz. vol. 210; p. 56.
- Aeroplane. A. F. Ringström, Jr. No. 1,165,805; Dec. 28; Gaz. vol. 221; p. 1198.
- Aeroplane. T. D. Robinson. No. 1,148,861; Aug. 3; Gaz. vol. 217; p. 134.
- Aeroplane. E. L. Russell. No. 1,160,768; Nov. 16; Gaz. vol. 220; p. 917.
- Aeroplane. H. L. A. E., and H. O. Short. No. 1,128,065; Feb. 9; Gaz. vol. 211; p. 532.
- Aeroplane. J. T. Simpson. No. 1,159,720; Nov. 9; Gaz. vol. 220; p. 491.
- Aeroplane. J. W. Smith. No. 1,136,560; Apr. 20; Gaz. vol. 213; p. 960.
- Aeroplane. R. R. Smith. No. 1,133,757; Mar. 30; Gaz. vol. 212; p. 1543.
- Aeroplane. J. W. Swales. No. 1,150,233; Aug. 17; Gaz. vol. 217; p. 789.
- Aeroplane. S. H. Tolman. No. 1,164,684; Dec. 21; Gaz. vol. 221; p. 768.
- Aeroplane. S. H. Tolman. No. 1,164,891; Dec. 21; Gaz. vol. 221; p. 839.
- Aeroplane. W. E. Verclaire. No. 1,148,875; Aug. 3; Gaz. vol. 217; p. 139.
- Aeroplane. J. Vintila. No. 1,158,594; Nov. 2; Gaz. vol. 220; p. 65.
- Aeroplane. B. Von Bültzingslöwen. No. 1,163,718; Dec. 14; Gaz. vol. 221; p. 390.
- Aeroplane. H. R. Ward. No. 1,160,020; Nov. 9; Gaz. vol. 220; p. 598.
- Aeroplane. J. Watts. No. 1,153,659; Sept. 14; Gaz. vol. 218; p. 496.
- Aeroplane. E. H. Wyman. No. 1,128,395; Feb. 16; Gaz. vol. 211; p. 694.
- Aeroplane alighting and launching apparatus. J. M. Thorp. No. 1,164,967; Dec. 21; Gaz. vol. 221; p. 866.
- Aeroplane and the like. S. L. Wallden. No. 1,152,063; Aug. 31; Gaz. vol. 217; p. 1523.
- Aeroplane appliance. A. H. Barrows. No. 1,142,134; June 8; Gaz. vol. 215; p. 406.
- Aeroplane, Automatic-stabilizing. W. Huebner and O. Kunkel. No. 1,131,380; Mar. 9; Gaz. vol. 212; p. 567.
- Aeroplane-balance. G. Mezzatesta. No. 1,140,180; May 18; Gaz. vol. 214; p. 940.
- Aeroplane construction. M. C. Krarup. No. 1,124,017; Jan. 12; Gaz. vol. 210; p. 646.
- Aeroplane construction. J. Rooney. No. 1,132,686; Mar. 23; Gaz. vol. 212; p. 1121.
- Aeroplane control. J. C. Hulbert. No. 1,151,685; Aug. 31; Gaz. vol. 217; p. 1392.
- Aeroplane-destroyer. E. Lazarte. No. 1,161,778; Nov. 23; Gaz. vol. 220; p. 1316.
- Aeroplane flying-machine. J. S. Stephens. No. 1,127,105; Feb. 2; Gaz. vol. 211; p. 156.
- Aeroplane flying-machine. H. Ziemss, Jr. No. 1,162,277; Nov. 30; Gaz. vol. 220; p. 1539.
- Aeroplane flying-machine. H. Ziemss, Jr. No. 1,162,278; Nov. 30; Gaz. vol. 220; p. 1539.
- Aeroplane-guy-wire tightener. J. T. Havens. No. 1,165,168; Dec. 21; Gaz. vol. 221; p. 937.
- Aeroplane, Miniature. J. W. J. Fritsch. No. 1,153,155; Sept. 7; Gaz. vol. 218; p. 278.
- Aeroplane-plane. F. McCarroll. No. 1,152,426; Sept. 7; Gaz. vol. 218; p. 16.
- Aeroplane-propeller. A. Beaty. No. 1,150,577; Oct. 12; Gaz. vol. 219; p. 462.
- Aeroplane safety controlling apparatus. T. M. Daniels. No. 1,153,035; Sept. 7; Gaz. vol. 218; p. 239.
- Aeroplane safety device. B. Ulferts. No. 1,135,561; Apr. 13; Gaz. vol. 213; p. 507.
- Aeroplane-signaling system. H. M. Horton. No. 1,165,412; Dec. 28; Gaz. vol. 221; p. 1061.
- Aeroplane speed-controller. A. B. Thaw. No. 1,151,419; Aug. 24; Gaz. vol. 217; p. 1253.
- Aeroplane-stabilizer. J. T. Parker. No. 1,149,680; Aug. 10; Gaz. vol. 217; p. 531.
- Aeroplane-stabilizer. A. B. Thaw. No. 1,158,333; Oct. 26; Gaz. vol. 219; p. 1169.
- Aeroplane-stabilizing apparatus, Automatic. L. A. Hayot. No. 1,154,396; Sept. 21; Gaz. vol. 218; p. 787.
- Aeroplane-stabilizing device. J. M. Reynolds. No. 1,148,050; July 27; Gaz. vol. 216; p. 1144.
- Aeroplane-starting means. P. A. Sparre. No. 1,161,744; Nov. 23; Gaz. vol. 220; p. 1305.
- Aeroplane stay-wires, Adjustable coupling for. S. Christofferson. No. 1,159,472; Nov. 9; Gaz. vol. 220; p. 403.
- Aeroplanes and other aerial devices, Speedometer for. O. A. Danielson. No. 1,123,253; Jan. 5; Gaz. vol. 210; p. 17.
- Aeroplanes, Automatic self-stabilizing plane for. R. S. Hartz. No. 1,149,827; Aug. 10; Gaz. vol. 217; p. 583.
- Aeroplanes, Control-lever and controlling mechanism for. B. de Beer. No. 1,126,179; Jan. 26; Gaz. vol. 210; p. 1167.
- Aeroplanes, Engine-mounting for. W. M. Cooper. No. 1,142,147; June 8; Gaz. vol. 215; p. 410.
- Aeroplanes, Landing-gear for. G. C. Loening. No. 1,162,177; Nov. 30; Gaz. vol. 220; p. 1504.
- Aeroplanes, Power plant for. C. R. Pfaffing. No. 1,124,652; Jan. 12; Gaz. vol. 210; p. 554.
- Aeroplanes, Running-gear for. J. M. Moorhouse. No. 1,127,798; Feb. 9; Gaz. vol. 211; p. 438.
- Aeroplanes, Stabilizing means for. J. R. Junkin. No. 1,125,850; Jan. 19; Gaz. vol. 210; p. 1014.
- Aerostat. J. C. Porter. No. 1,149,218; Aug. 10; Gaz. vol. 217; p. 362.
- Agglomerates, Manufacture of. A. Ekbrayat. No. 1,154,980; Sept. 28; Gaz. vol. 218; p. 1013.
- Agglutinator. J. G. Reiser and J. W. Hubbell. No. 1,150,536; Aug. 17; Gaz. vol. 217; p. 895.
- Agitating and aerating substances. W. Janensch. No. 1,123,542; Jan. 5; Gaz. vol. 210; p. 118.
- Agitator. A. S. Babek. No. 1,129,158; Feb. 23; Gaz. vol. 211; p. 997.
- Agitator. H. R. Conklin. No. 1,160,848; Nov. 16; Gaz. vol. 220; p. 945.
- Agitator. A. C. Cunningham. No. 1,141,528; June 1; Gaz. vol. 215; p. 158.
- Agitator. J. V. Dorr. No. 1,131,222; Mar. 9; Gaz. vol. 212; p. 513.
- Agitator. J. C. King. No. 1,140,465; May 25; Gaz. vol. 214; p. 1074.
- Agitator. G. R. Nagle. No. 1,130,007; Mar. 2; Gaz. vol. 212; p. 58.
- Agitator. A. E. Vandercook. No. 1,156,946; Oct. 19; Gaz. vol. 219; p. 619.
- Agricultural implement. L. S. Ballard. No. 1,136,579. Apr. 20; Gaz. vol. 213; p. 968.
- Agricultural implement. N. R. Bame. No. 1,145,963; July 13; Gaz. vol. 216; p. 365.
- Agricultural implement. J. B. Bartholomew. No. 1,131,897; Mar. 16; Gaz. vol. 212; p. 785.
- Agricultural implement. A. E. Cook. No. 1,129,170; Feb. 23; Gaz. vol. 211; p. 1001.
- Agricultural implement. W. W. Cranford. No. 1,137,052; Apr. 27; Gaz. vol. 213; p. 1172.
- Agricultural implement. F. J. Fowler. No. 1,152,086; Aug. 31; Gaz. vol. 217; p. 1532.
- Agricultural implement. J. Hadford. No. 1,127,233; Feb. 2; Gaz. vol. 211; p. 201.
- Agricultural implement. R. B. Hedges. No. 1,143,907; June 22; Gaz. vol. 215; p. 1080.
- Agricultural implement. D. F. Krumm. No. 1,127,781; Feb. 9; Gaz. vol. 211; p. 432.
- Agricultural implement. J. H. Maher. No. 1,157,709; Oct. 26; Gaz. vol. 219; p. 952.
- Agricultural implement. J. J. Mathew and T. E. Williams. No. 1,137,228; Apr. 27; Gaz. vol. 213; p. 1236.
- Agricultural-implement attachment. M. E. Gangstad. No. 1,128,438; Feb. 16; Gaz. vol. 211; p. 710.
- Agricultural-implement fender. W. Berger. No. 1,150,847; Aug. 24; Gaz. vol. 217; p. 1061.
- Agricultural-implement lifter. L. L. Powers. No. 1,159,269; Nov. 2; Gaz. vol. 220; p. 299.
- Agricultural implements, Tool-shifting mechanism for. C. E. White. No. 1,156,384; Oct. 12; Gaz. vol. 219; p. 394.
- Agricultural machine. C. O. Anderson. No. 1,163,194; Dec. 7; Gaz. vol. 221; p. 161.
- Agricultural machine. F. M. Beaver. No. 1,158,023; Oct. 26; Gaz. vol. 219; p. 1061.
- Agricultural machine. F. C. Blair. No. 1,164,163; Dec. 14; Gaz. vol. 221; p. 545.
- Agricultural machine. W. R. Jones. No. 1,127,630; Feb. 9; Gaz. vol. 211; p. 376.
- Agricultural machine. T. Kopinski. No. 1,159,959; Nov. 9; Gaz. vol. 220; p. 579.
- Agricultural machine. H. H. Larkins and M. R. Kevill. No. 1,153,800; Sept. 14; Gaz. vol. 218; p. 546.
- Agricultural machine. O. O. McKinney. No. 1,141,195; June 1; Gaz. vol. 215; p. 37.
- Agricultural machine. M. Samel. No. 1,154,888; Sept. 28; Gaz. vol. 218; p. 982.
- Agricultural machine. E. S. Willis. No. 1,163,495; Dec. 7; Gaz. vol. 221; p. 265.

Alphabetical list of inventions—Continued.

- Agricultural machines, Steering device for. C. Gleiche. No. 1,155,351; Oct. 5; Gaz. vol. 219; p. 9.
- Agricultural machinery, Motor-propelled. B. H. Lawter. No. 1,145,776; July 6; Gaz. vol. 216; p. 281.
- Agricultural machinery, Motor-propelled. B. H. Lawter. No. 1,159,965; Nov. 9; Gaz. vol. 220; p. 581.
- Aiming device. H. Jacob. No. 1,160,615; Nov. 16; Gaz. vol. 220; p. 861.
- Air-accelerator. J. W. Fudge. No. 1,125,302; Jan. 19; Gaz. vol. 210; p. 820.
- Air and gas compressors, Means for controlling the operation of. J. H. Denny. No. 1,152,400; Sept. 7; Gaz. vol. 218; p. 7.
- Air and gas mixing device. C. R. Pomaville. No. 1,144,501; June 29; Gaz. vol. 215; p. 1322.
- Air and separating it into oxygen and nitrogen, Liquefying. J. F. Place. No. 1,152,120; Aug. 31; Gaz. vol. 217; p. 1543.
- Air and separating the same into oxygen and nitrogen, Liquefying. J. F. Place. No. 1,157,959; Oct. 26; Gaz. vol. 219; p. 1039.
- Air and steam coupling, Automatic. J. E. Howard and E. M. Knothe. No. 1,130,601; Mar. 2; Gaz. vol. 212; p. 266.
- Air and water motor. I. Reese. No. 1,148,989; Aug. 3; Gaz. vol. 217; p. 178.
- Air, Apparatus for liquefying and separating atmospheric. J. F. Place. No. 1,128,588; Jan. 5; Gaz. vol. 210; p. 133.
- Air-bag. R. T. Griffith. No. 1,163,908; Dec. 14; Gaz. vol. 221; p. 456.
- Air-bag, Sectional. J. P. Brophy. No. 1,151,859; Aug. 31; Gaz. vol. 217; p. 1454.
- Air-blast, Universal. J. Diehl. No. 1,141,236; June 1; Gaz. vol. 215; p. 51.
- Air-brake apparatus. H. F. Bickel. No. 1,124,200; Jan. 5; Gaz. vol. 210; p. 342.
- Air-brake apparatus. H. F. Bickel. No. 1,124,201; Jan. 5; Gaz. vol. 210; p. 342.
- Air-brake apparatus. H. F. Bickel. No. 1,124,202; Jan. 5; Gaz. vol. 210; p. 343.
- Air-brake apparatus. F. S. Cravens. No. 1,137,701; Apr. 27; Gaz. vol. 213; p. 1398.
- Air-brake apparatus, Air-retaining valve for. S. G. Neal. No. 1,125,151; Jan. 19; Gaz. vol. 210; p. 765.
- Air-brake apparatus, Air-retaining valve for. S. G. Neal. No. 1,157,954; Oct. 26; Gaz. vol. 219; p. 1036.
- Air-brake apparatus, Cut-out and release for. S. P. Cota. No. 1,164,259; Dec. 14; Gaz. vol. 221; p. 577.
- Air-brake apparatus, Economy. W. G. Canion. No. 1,149,152; Aug. 3; Gaz. vol. 217; p. 234.
- Air-brake apparatus, Safety-valve for. J. W. Bingley. No. 1,123,203; Jan. 5; Gaz. vol. 210; p. 343.
- Air-brake appliance, Automatic safety. W. P. Huntley and R. M. Berkeley. No. 1,143,198; June 15; Gaz. vol. 215; p. 818.
- Air-brake appliance, Emergency. F. M. Kleckner. No. 1,148,097; July 27; Gaz. vol. 216; p. 1162.
- Air-brake bleed-valve. E. O. Hentschel and F. C. Harting. No. 1,147,243; July 20; Gaz. vol. 216; p. 834.
- Air-brake coupling. O. F. Kirkpatrick. No. 1,153,318; Sept. 14; Gaz. vol. 218; p. 374.
- Air-brake-coupling handle. C. M. Pettet. No. 1,165,283; Dec. 21; Gaz. vol. 221; p. 976.
- Air-brake device. E. U. Mack. No. 1,153,806; Sept. 14; Gaz. vol. 218; p. 548.
- Air-brake for motor-cars. I. Crum. No. 1,141,939; June 8; Gaz. vol. 215; p. 336.
- Air-brake handle. S. Roush and C. H. Kenyon. No. 1,142,629; June 8; Gaz. vol. 215; p. 578.
- Air-brake-boss protector. A. R. Peffers. No. 1,139,797; May 18; Gaz. vol. 214; p. 804.
- Air-brake pipes of cars, Angle-cock hanger for. R. W. Burnett. No. 1,125,811; Jan. 19; Gaz. vol. 210; p. 1001.
- Air-brake quick-action-release mechanism. S. G. Neal. No. 1,128,622; Feb. 16; Gaz. vol. 211; p. 774.
- Air-brake system. P. Comerford. No. 1,138,193; May 4; Gaz. vol. 214; p. 166.
- Air-brake system. J. E. Wallace. No. 1,130,224; Mar. 2; Gaz. vol. 212; p. 133.
- Air-brake-system releasing device. N. E. Hirsch. No. 1,139,866; May 18; Gaz. vol. 214; p. 828.
- Air-brake systems, Automatic retaining-valve for. E. U. Mack. No. 1,161,712; Nov. 23; Gaz. vol. 220; p. 1294.
- Air-brake systems, Emergency-valve attachment for. H. Enoch and G. M. Point. No. 1,164,709; Dec. 21; Gaz. vol. 221; p. 776.
- Air-brake systems, Valve mechanism for. W. Austin. No. 1,137,179; Apr. 27; Gaz. vol. 213; p. 1218.
- Air-brake triple valve. S. G. Neal. No. 1,125,871; Jan. 19; Gaz. vol. 210; p. 1021.
- Air-brake valve. G. S. Switzer. No. 1,127,826; Feb. 9; Gaz. vol. 211; p. 449.
- Air-brakes, Emergency operating device for. J. H. Teutenberg and P. E. Schafer. No. 1,159,292; Nov. 2; Gaz. vol. 220; p. 807.
- Air-brakes, Trip-valve device for. E. R. Hill. No. 1,133,645; Mar. 30; Gaz. vol. 212; p. 1504.
- Air-circulating device. L. Greenberg and G. Olson. No. 1,125,684; Jan. 19; Gaz. vol. 210; p. 956.
- Air-circulating device. L. Greenberg and G. Olson. No. 1,125,685; Jan. 19; Gaz. vol. 210; p. 957.
- Air-cleaning means. H. J. Richardson. No. 1,142,982; June 15; Gaz. vol. 215; p. 741.
- Air-compressing apparatus. W. C. Gebhardt. No. 1,132,331; Mar. 16; Gaz. vol. 212; p. 944.
- Air-compressor. H. Harford. No. 1,138,215; May 4; Gaz. vol. 214; p. 172.
- Air-compressor. W. M. Melmore. No. 1,139,991; May 18; Gaz. vol. 214; p. 872.
- Air-compressor. F. Nielsen. No. 1,127,079; Feb. 2; Gaz. vol. 211; p. 146.
- Air-compressor. W. F. Robbins. No. 1,147,646; July 20; Gaz. vol. 216; p. 976.
- Air-compressor. C. Rorabeck. No. 1,162,884; Dec. 7; Gaz. vol. 221; p. 52.
- Air-compressor. C. Wainwright. No. 1,131,577; Mar. 9; Gaz. vol. 212; p. 635.
- Air-compressor. M. C. White. No. 1,148,809; Aug. 3; Gaz. vol. 217; p. 117.
- Air-compressor, Centrifugal. R. H. Rice. No. 1,159,094; Nov. 2; Gaz. vol. 220; p. 236.
- Air-compressor, Gas-driven. C. E. Sargent. No. 1,136,488; Apr. 20; Gaz. vol. 213; p. 936.
- Air-compressor governor. C. O. Palmer. No. 1,154,798; Sept. 28; Gaz. vol. 218; p. 953.
- Air compressor or pump, Rotary. E. Wilson. No. 1,162,962; Dec. 7; Gaz. vol. 221; p. 80.
- Air-compressor-unloading system. O. R. Wikander. No. 1,150,915; Aug. 24; Gaz. vol. 217; p. 1084.
- Air-compressors, Rubbing-strip for centrifugal. R. H. Rice. No. 1,159,095; Nov. 2; Gaz. vol. 220; p. 237.
- Air, Conditioning. D. P. Gosline. No. 1,155,308; Sept. 28; Gaz. vol. 218; p. 1123.
- Air-conditioning apparatus. S. W. Cramer. No. 1,147,484; July 20; Gaz. vol. 216; p. 919.
- Air-conditioning system. L. M. Du Commun. No. 1,132,246; Mar. 16; Gaz. vol. 212; p. 913.
- Air-conditioning system. L. M. Du Commun. No. 1,133,371; Mar. 30; Gaz. vol. 212; p. 1405.
- Air-conveying means. W. S. Estle. No. 1,162,758; Dec. 7; Gaz. vol. 221; p. 9.
- Air-cooled motor. F. Moench. No. 1,165,339; Dec. 21; Gaz. vol. 221; p. 995.
- Air cooling and filtering device. J. M. Seymour, Jr. No. 1,130,849; Mar. 9; Gaz. vol. 212; p. 385.
- Air-cooling device. J. E. Cockran. No. 1,164,471; Dec. 14; Gaz. vol. 221; p. 653.
- Air cooling or agitating apparatus. H. E. Baumgartner. No. 1,133,255; Mar. 30; Gaz. vol. 212; p. 1364.
- Air-craft. G. A. Ogrissek and J. Jaworsky. No. 1,157,636; Oct. 19; Gaz. vol. 219; p. 859.
- Air-craft, Offensive device carried by. J. A. Steinmetz. No. 1,136,494; Apr. 20; Gaz. vol. 213; p. 938.
- Air-craft propelling and balancing mechanism. U. G. White. No. 1,134,790; Apr. 6; Gaz. vol. 213; p. 258.
- Air-craft, Range-finder for. J. W. Hasburg. No. 1,152,946; Sept. 7; Gaz. vol. 218; p. 208.
- Air-craft, Standard of position for. R. Wood. No. 1,142,218; June 8; Gaz. vol. 215; p. 435.
- Air-cushion. C. I. Dickerson. No. 1,147,148; July 20; Gaz. vol. 216; p. 800.
- Air-cushioning mechanism. L. D. Lovekin. No. 1,149,589; Aug. 10; Gaz. vol. 217; p. 495.
- Air dehydrating and warming apparatus. G. D. Harris and J. S. Pollard. No. 1,131,835; Mar. 16; Gaz. vol. 212; p. 764.
- Air-dehydrating apparatus. W. A. Fairburn. No. 1,127,420; Feb. 9; Gaz. vol. 211; p. 304.
- Air device, Auxiliary. J. H. Cratty and H. W. Newell. No. 1,148,830; Aug. 3; Gaz. vol. 217; p. 124.
- Air-drier. G. F. Steedman. No. 1,153,181; Sept. 7; Gaz. vol. 218; p. 287.
- Air engine, Variable-capacity compressed. B. V. Nordberg. No. 1,138,886; May 11; Gaz. vol. 214; p. 448.
- Air for combustion or gas, Conveying. A. Pfoser. No. 1,131,952; Mar. 16; Gaz. vol. 212; p. 804.
- Air for industrial purposes, Apparatus for dehydrating or desiccating. F. G. P. Leao. No. 1,132,194; Mar. 16; Gaz. vol. 212; p. 892.
- Air-gage appliance. C. E. L. Lipman. No. 1,142,772; June 8; Gaz. vol. 215; p. 627.
- Air-governor. C. Trojovskiy. No. 1,129,763; Feb. 23; Gaz. vol. 211; p. 1205.
- Air-heater. L. Giles. No. 1,144,469; June 29; Gaz. vol. 215; p. 1311.
- Air-heater. G. C. Hawkins. No. 1,159,669; Nov. 9; Gaz. vol. 220; p. 472.
- Air-heater. R. L. Hubbard. No. 1,126,011; Jan. 26; Gaz. vol. 210; p. 1104.
- Air-heater. F. Kuhn. No. 1,130,986; Mar. 9; Gaz. vol. 212; p. 432.
- Air-heater. H. S. Williams. No. 1,133,350; Mar. 30; Gaz. vol. 212; p. 1397.
- Air heating or cooling apparatus. J. Keith and D. B. Bain. No. 1,149,065; Aug. 3; Gaz. vol. 217; p. 206.
- Air, Humidifying. W. G. R. Braemer and S. C. Bloom. No. 1,142,483; June 8; Gaz. vol. 215; p. 529.
- Air-humidifying means. W. G. R. Braemer and S. C. Bloom. No. 1,134,976; Apr. 6; Gaz. vol. 213; p. 319.
- Air-injector. W. Scheick. No. 1,155,620; Oct. 5; Gaz. vol. 219; p. 102.

- Air-lift foot-piece. N. W. Wood. No. 1,150,651; Aug. 17; Gaz. vol. 217; p. 935.
- Air-lift for elevating liquids. B. Andrews. No. 1,144,342; June 29; Gaz. vol. 215; p. 1269.
- Air liquefier and separator. J. F. Place. No. 1,146,020; July 13; Gaz. vol. 216; p. 386.
- Air liquefying and separating. J. F. Place. No. 1,152,044; Aug. 31; Gaz. vol. 217; p. 1516.
- Air-meter, Volumetric. O. A. Kreutzberg. No. 1,150,866; Aug. 24; Gaz. vol. 217; p. 1068.
- Air-modifying apparatus. W. A. Fairburn. No. 1,127,419; Feb. 9; Gaz. vol. 211; p. 304.
- Air-moistener. R. W. Hardie. No. 1,151,938; Aug. 31; Gaz. vol. 217; p. 1479.
- Air-moistener. C. B. Haynes. No. 1,143,962; June 22; Gaz. vol. 215; p. 1105.
- Air-moistening device. G. B. Owen, Jr. No. 1,129,897; Mar. 2; Gaz. vol. 212; p. 22.
- Air-motor. J. R. Kinney. No. 1,123,311; Jan. 5; Gaz. vol. 210; p. 38.
- Air-motor. G. Koesis and J. Lükö. No. 1,124,460; Jan. 12; Gaz. vol. 210; p. 484.
- Air or gas moving or forcing apparatus, Centrifugal. W. G. Hay. No. 1,160,076; Nov. 9; Gaz. vol. 220; p. 617.
- Air-pressure system and operation. W. W. Wotherspoon. No. 1,149,709; Aug. 10; Gaz. vol. 217; p. 540.
- Air-propeller. J. R. Haydon. No. 1,141,337; June 1; Gaz. vol. 215; p. 88.
- Air-purifier and temperature-regulator. G. Sinclair. No. 1,161,350; Nov. 23; Gaz. vol. 220; p. 1169.
- Air purifier and washer. C. A. Geddes. No. 1,139,358; May 11; Gaz. vol. 214; p. 612.
- Air-releasing appliance for signals, switches, &c. C. W. Killian. No. 1,148,025; July 27; Gaz. vol. 216; p. 1135.
- Air-resistance-measuring gage for automobiles and similar vehicles. J. Jensen. No. 1,162,366; Nov. 30; Gaz. vol. 220; p. 1568.
- Air-spring. J. G. Funk. No. 1,140,344; May 18; Gaz. vol. 214; p. 996.
- Air-strainer. E. H. Dewson. No. 1,131,220; Mar. 9; Gaz. vol. 212; p. 512.
- Air-tight-surface-forming compound. H. L. Bates. No. 1,129,268; Feb. 23; Gaz. vol. 211; p. 1036.
- Air-tubes, Manufacturing reinforced. J. W. Blodgett. No. 1,162,745; Dec. 7; Gaz. vol. 221; p. 5.
- Air washing and conditioning apparatus. W. H. Carrier. No. 1,138,081; May 4; Gaz. vol. 214; p. 127.
- Airship. I. Anderson. No. 1,144,578; June 29; Gaz. vol. 215; p. 1347.
- Airship. A. Boerner. No. 1,160,095; Nov. 9; Gaz. vol. 220; p. 624.
- Airship, J. W. Boughton. No. 1,138,724; May 11; Gaz. vol. 214; p. 390.
- Airship. J. W. Broderick. No. 1,146,842; July 20; Gaz. vol. 216; p. 693.
- Airship. C. Girolami. No. 1,132,085; Mar. 16; Gaz. vol. 212; p. 853.
- Airship. F. Halcin. No. 1,128,603; Feb. 16; Gaz. vol. 211; p. 767.
- Airship. A. Mayer. No. 1,125,365; Jan. 19; Gaz. vol. 210; p. 843.
- Airship. A. Schad and E. Seidel. No. 1,135,209; Apr. 13; Gaz. vol. 213; p. 444.
- Airship. E. S. Timmons. No. 1,144,570; June 29; Gaz. vol. 215; p. 1344.
- Airship. J. Waskewice. No. 1,161,428; Nov. 23; Gaz. vol. 220; p. 1197.
- Airship. W. M. Webber. No. 1,160,552; Nov. 16; Gaz. vol. 220; p. 838.
- Airship. W. T. Wilkins. No. 1,130,125; Mar. 2; Gaz. vol. 212; p. 98.
- Airship. W. C. Young. No. 1,128,648; Feb. 16; Gaz. vol. 211; p. 783.
- Airship, Dirigible. J. Spiteri. No. 1,134,241; Apr. 6; Gaz. vol. 213; p. 58.
- Airship-steering apparatus. L. C. Badeau. No. 1,155,031; Sept. 28; Gaz. vol. 218; p. 1030.
- Airship-steering apparatus. L. C. Badeau. No. 1,156,514; Oct. 12; Gaz. vol. 219; p. 440.
- Airships, Equalizing drive mechanism for. H. W. Atwood and D. D. Sternbergh. No. 1,148,280; July 27; Gaz. vol. 216; p. 1226.
- Airships, Rudder mechanism for. W. M. Webber. No. 1,165,731; Dec. 28; Gaz. vol. 221; p. 1173.
- Airships, Sighting device for projectile-ejectors of. O. von Eberhard. No. 1,159,556; Nov. 9; Gaz. vol. 220; p. 432.
- Alarm. See—
- Automobile-alarm.
- Boiler high and low water alarm.
- Boiler low-water alarm.
- Burglar-alarm.
- Burglar and fire alarm.
- Burglar, fire, and general alarm.
- Burglar or fire alarm.
- Door-alarm.
- Drip-pan alarm.
- Electric alarm.
- Fire-alarm.
- Harvester twine-alarm.
- Low-water alarm.
- Railway-crossing alarm.
- Rain-alarm.
- Speed-alarm.
- Sprinkler-alarm.
- Time-alarm.
- Tire-alarm.
- Tire-pressure-drop alarm.
- Vehicle-alarm.
- Alarm. J. B. Polo. No. 1,132,793; Mar. 23; Gaz. vol. 212; p. 1161.
- Alarm apparatus. W. McCleary. No. 1,161,708; Nov. 23; Gaz. vol. 220; p. 1293.
- Alarm-clock, Automatic. M. Sheinman. No. 1,163,783; Dec. 14; Gaz. vol. 221; p. 412.
- Alarm device. M. Keilson. No. 1,130,408; Mar. 2; Gaz. vol. 212; p. 197.
- Alarm device, Automatic. A. P. Willoughby and W. D. Bolding. No. 1,131,452; Mar. 9; Gaz. vol. 212; p. 593.
- Alarm device, Fluid-pressure-operated. H. E. W. Sauveur. No. 1,126,297; Jan. 26; Gaz. vol. 210; p. 1208.
- Alarm-lock. J. W. Alfred. No. 1,151,149; Aug. 24; Gaz. vol. 217; p. 1164.
- Alarm-operating apparatus. J. P. Ashey. No. 1,129,057; Feb. 23; Gaz. vol. 211; p. 962.
- Alarm-preventing device, False. J. Janik. No. 1,155,578; Oct. 5; Gaz. vol. 219; p. 88.
- Alarm system, Electrical. A. Julian. No. 1,150,204; Aug. 17; Gaz. vol. 217; p. 780.
- Alarm systems, Contact mechanism for electric. J. P. Williams. No. 1,146,294; July 13; Gaz. vol. 216; p. 481.
- Alarms or other devices, Apparatus for operating. A. C. Rowley. No. 1,138,249; May 4; Gaz. vol. 214; p. 184.
- Album-leaves, Card-holder for. G. Klerman. No. 1,140,904; May 25; Gaz. vol. 214; p. 1227.
- Albumen compound, Indurated. B. B. Goldsmith. No. 1,134,527; Apr. 6; Gaz. vol. 213; p. 162.
- Albuminous matter from animal or vegetable origin, Process for making and product containing. N. Sulzberger. No. 1,160,783; Nov. 16; Gaz. vol. 220; p. 922.
- Alcoholic fermentation. R. de Fazl. No. 1,140,882; May 25; Gaz. vol. 214; p. 1219.
- Alcohols, Condensing polyhydric. H. Hibbert. No. 1,126,467; Jan. 26; Gaz. vol. 210; p. 1269.
- Alfalfa-mill. A. D. Davies and L. H. Bemen. No. 1,143,106; June 15; Gaz. vol. 215; p. 784.
- Alimentary product. J. L. A. Paré. No. 1,128,357; Feb. 16; Gaz. vol. 211; p. 683.
- Alizarin, Making. F. Singer. No. 1,150,152; Aug. 17; Gaz. vol. 217; p. 762.
- Alkali amid, Manufacture of. B. R. Seifert and W. Leibrock. No. 1,148,194; July 27; Gaz. vol. 216; p. 1196.
- Alkali carbonitrid, Producing. S. Peacock. No. 1,129,510; Feb. 23; Gaz. vol. 211; p. 1121.
- Alkali-chlorid solution, Electrolyzing. W. Gaus. No. 1,126,627; Jan. 26; Gaz. vol. 210; p. 1329.
- Alkali chlorids or alkali-earth chlorids, Electrolysis of. A. Clemm. No. 1,160,847; Nov. 16; Gaz. vol. 220; p. 944.
- Alkali compounds and cement-making materials, Simultaneous production of soluble. A. W. Heyman. No. 1,160,172; Nov. 16; Gaz. vol. 220; p. 708.
- Alkali hydroxids and cement-making material, Simultaneous production of soluble. A. W. Heyman. No. 1,160,171; Nov. 16; Gaz. vol. 220; p. 706.
- Alkali metal compounds, Obtaining. H. E. Brown. No. 1,123,841; Jan. 5; Gaz. vol. 210; p. 219.
- Alkali-metal cyanid, Production of. H. Freeman. No. 1,143,952; June 22; Gaz. vol. 215; p. 1102.
- Alkali-metal silicates, Decomposing. S. Peacock. No. 1,134,413; Apr. 6; Gaz. vol. 213; p. 120.
- Alkali salts of the 3,3'-diamino-4,4'-dioxarsenobenzene combined with silver and making same. P. Ehrlich and P. Karrer. No. 1,127,603; Feb. 9; Gaz. vol. 211; p. 368.
- Alkali silico-aluminate, Making. A. H. Cowles. No. 1,123,693; Jan. 5; Gaz. vol. 210; p. 169.
- Alkalis from cement-kilns, Recovering. S. B. Newberry. No. 1,150,295; Aug. 17; Gaz. vol. 217; p. 813.
- Alkaline chlorids, Apparatus for electrolysis of. K. Ochs. No. 1,138,400; May 4; Gaz. vol. 214; p. 240.
- Alkaline silicates and preparing the same, Solution of. J. G. Vail and J. D. Carter. No. 1,129,320; Feb. 23; Gaz. vol. 211; p. 1054.
- Alkamin and producing same. A. B. Davis. No. 1,150,251; Aug. 17; Gaz. vol. 217; p. 797.
- Alkamin and producing same. A. B. Davis. No. 1,150,252; Aug. 17; Gaz. vol. 217; p. 798.
- Alkamin ester and producing same. A. B. Davis. No. 1,150,253; Aug. 17; Gaz. vol. 217; p. 798.
- Alkamin ester and producing same. A. B. Davis. No. 1,150,580; Aug. 17; Gaz. vol. 217; p. 911.
- Alligator-wrench. R. Acton. No. 1,138,168; May 4; Gaz. vol. 214; p. 158.
- Alloy. C. R. Denton. No. 1,162,226; Nov. 30; Gaz. vol. 220; p. 1520.
- Alloy. G. C. Holder. No. 1,127,624; Feb. 9; Gaz. vol. 211; p. 374.
- Alloy, Aluminum. W. A. McAdams. No. 1,146,185; July 13; Gaz. vol. 216; p. 444.
- Alloy, Aluminum. A. Wilm. No. 1,130,785; Mar. 9; Gaz. vol. 212; p. 363.
- Alloy and producing the same. J. L. Brown. No. 1,151,160; Aug. 24; Gaz. vol. 217; p. 1167.
- Alloy-coating. J. C. Beneker. No. 1,144,524; June 29; Gaz. vol. 215; p. 1329.
- Alloy for dynamo-electric purposes, Manufacturing an iron. W. Rübel. No. 1,130,678; Mar. 2; Gaz. vol. 212; p. 293.
- Alloy, Gold. K. G. P. Richter. No. 1,165,448; Dec. 28; Gaz. vol. 221; p. 1073.
- Alloy, Iron. W. Rübel. No. 1,128,726; Feb. 16; Gaz. vol. 211; p. 809.

Alphabetical list of inventions—Continued.

- Alloy, Iron, boron, carbon, and copper. E. D. Gleason. No. 1,126,629; Jan. 26; Gaz. vol. 210; p. 1330.
- Alloy, Metal. R. H. Patch. No. 1,162,186; Nov. 30; Gaz. vol. 220; p. 1507.
- Alloy, Noble. E. Haynes. No. 1,150,113; Aug. 17; Gaz. vol. 217; p. 746.
- Alloy of iron. H. E. Field and F. C. T. Daniels. No. 1,166,342; Dec. 28; Gaz. vol. 221; p. 1390.
- Alloy, Tire-valve. R. H. Henemier. No. 1,147,398; July 20; Gaz. vol. 216; p. 889.
- Alloys and producing the same, Titanium. H. Goldschmidt and O. Weil. No. 1,136,670; Apr. 20; Gaz. vol. 213; p. 999.
- Alloys, Apparatus for the manufacture of metallic. W. N. Naylor and S. P. Hutton. No. 1,132,376; Mar. 16; Gaz. vol. 212; p. 959.
- Alloys, Composition of hard lead. F. C. Frary and S. N. Temple. No. 1,158,674; Nov. 2; Gaz. vol. 220; p. 93.
- Alloys, Composition of hard lead. F. C. Frary and S. N. Temple. No. 1,158,675; Nov. 2; Gaz. vol. 220; p. 93.
- Alloys containing a plurality of the metals of the alkaline earths. Lead. F. C. Frary and S. N. Temple. No. 1,158,672; Nov. 2; Gaz. vol. 220; p. 93.
- Alloys, Electrolytic production of sodium. E. A. Ashcroft. No. 1,161,585; Nov. 23; Gaz. vol. 220; p. 1251.
- Alloys, Hard lead. F. C. Frary and S. N. Temple. No. 1,158,671; Nov. 2; Gaz. vol. 220; p. 93.
- Alloys, Hard lead. F. C. Frary and S. N. Temple. No. 1,158,673; Nov. 2; Gaz. vol. 220; p. 93.
- Alloys, Making. E. D. Gleason. No. 1,133,019; Mar. 23; Gaz. vol. 212; p. 1245.
- Alloys, Making. E. D. Gleason. No. 1,136,909; Apr. 20; Gaz. vol. 213; p. 1084.
- Alloys, Making. A. Smith. No. 1,131,799; Mar. 16; Gaz. vol. 212; p. 751.
- Alloys of light metals with heavier metals and the continuous treatment of such alloys for obtaining final products, Apparatus for the electrolytic manufacture of. E. A. Ashcroft. No. 1,159,154; Nov. 2; Gaz. vol. 220; p. 257.
- Alloys of platinum and osmium. F. Zimmermann. (Re-issue.) No. 1,13,961; Aug. 10; Gaz. vol. 217; p. 650.
- Alloys or compounds for improving copper and its alloys. C. Vickers. No. 1,151,744; Aug. 31; Gaz. vol. 217; p. 1412.
- Almonds, Device for skinning scalded. M. Hahn. No. 1,126,991; Feb. 2; Gaz. vol. 211; p. 115.
- Alternator, High-frequency. E. F. W. Alexanderson. No. 1,126,334; Jan. 26; Gaz. vol. 210; p. 1222.
- Altitude-gage. C. J. Manning. No. 1,160,420; Nov. 16; Gaz. vol. 220; p. 793.
- Altitude instrument. T. E. Beyer. No. 1,151,336; Aug. 24; Gaz. vol. 217; p. 1226.
- Alumina and making the same, Crystalline fused. L. B. Coulter. No. 1,161,620; Nov. 23; Gaz. vol. 220; p. 1263.
- Alumina from clay and other alumina-bearing materials, Producing pure. M. Buchner. No. 1,162,136; Nov. 30; Gaz. vol. 220; p. 1488.
- Alumina, Making. H. T. Kalms, W. L. Savell, and K. B. Blake. No. 1,148,092; July 27; Gaz. vol. 216; p. 1160.
- Alumina, Making alkali-soluble. P. R. Hershman. No. 1,137,617; Apr. 27; Gaz. vol. 213; p. 1373.
- Aluminate solutions. Treating. H. Howard. No. 1,137,860; May 4; Gaz. vol. 214; p. 48.
- Aluminium-acetate compounds, Manufacture of. G. Elchelbaum. No. 1,132,709; Mar. 23; Gaz. vol. 212; p. 1129.
- Aluminium nitrid, Manufacture of. P. Bunet. No. 1,145,747; July 6; Gaz. vol. 216; p. 270.
- Aluminum or alloys of aluminum in order to prepare them for receiving a metallic deposit, Treatment of surfaces of. F. A. Roux. No. 1,144,000; June 22; Gaz. vol. 215; p. 1119.
- Aluminum to render it unalterable, Treatment of. F. Pucillo. No. 1,130,196; Mar. 2; Gaz. vol. 212; p. 124.
- Aluminum carbonitrid, Producing. S. Peacock. No. 1,129,509; Feb. 23; Gaz. vol. 211; p. 1120.
- Aluminum chlorid, Manufacture of. B. T. Brooks. No. 1,165,065; Dec. 21; Gaz. vol. 221; p. 900.
- Aluminum chlorid, Manufacture of. A. M. McAfee. No. 1,144,304; June 22; Gaz. vol. 215; p. 1227.
- Aluminum chlorid, production of. F. Von Kugelgen and G. O. Seward. No. 1,147,832; July 27; Gaz. vol. 216; p. 1066.
- Aluminum compounds and producing same, Volatile. S. Peacock. No. 1,154,801; Sept. 28; Gaz. vol. 218; p. 954.
- Aluminum from clay, kaolin, and other aluminum silicates, Producing. G. Mellen. No. 1,160,431; Nov. 16; Gaz. vol. 220; p. 795.
- Aluminum nitrid, Manufacture of. A. Badin. No. 1,143,482; June 15; Gaz. vol. 215; p. 916.
- Aluminum or aluminum alloys, Melting. G. Mellen. No. 1,160,430; Nov. 16; Gaz. vol. 220; p. 794.
- Aluminum oxid from sulfate of alumina, Producing. G. Schwahn. No. 1,132,736; Mar. 23; Gaz. vol. 212; p. 1139.
- Aluminum oxid, Production of. G. Schwahn. No. 1,132,737; Mar. 23; Gaz. vol. 212; p. 1140.
- Aluminum pernitrids, Making. S. Peacock. No. 1,134,414; Apr. 6; Gaz. vol. 213; p. 120.
- Aluminum, Plating. J. A. Hall. No. 1,147,718; July 27; Gaz. vol. 216; p. 1027.
- Aluminum screenings, dross, slags, or analogous aluminous materials, Treating. J. W. Lawrie. No. 1,156,606; Oct. 12; Gaz. vol. 219; p. 471.
- Aluminum solder. J. F. Gross. No. 1,145,307; July 6; Gaz. vol. 216; p. 115.
- Alunite and the like, Treatment of. C. H. MacDowell. No. 1,136,549; Apr. 20; Gaz. vol. 213; p. 956.
- Amalgam-mixer. N. K. Garhart. No. 1,159,206; Nov. 2; Gaz. vol. 220; p. 278.
- Amalgam-mixer. G. M. Hanly. No. 1,137,482; Apr. 27; Gaz. vol. 213; p. 1328.
- Amalgamating. R. Luckenbach. No. 1,124,482; Jan. 12; Gaz. vol. 210; p. 492.
- Amalgamating-machine. M. Arnold. No. 1,127,845; Feb. 9; Gaz. vol. 211; p. 455.
- Amalgamating-machine. W. Carson. No. 1,128,847; Feb. 16; Gaz. vol. 211; p. 852.
- Amalgamating or plating machine. C. G. Miller. No. 1,128,481; Feb. 16; Gaz. vol. 211; p. 725.
- Amalgamator. F. P. Arnold and G. F. Vvedeman. No. 1,139,324; May 11; Gaz. vol. 214; p. 599.
- Amalgamator. E. B. Bennett. No. 1,157,836; Oct. 26; Gaz. vol. 219; p. 995.
- Amalgamator. C. H. Farmer. No. 1,132,317; Mar. 16; Gaz. vol. 212; p. 939.
- Amalgamator. C. O. Haskell. No. 1,148,770; Aug. 3; Gaz. vol. 217; p. 104.
- Amalgamator. E. W. Hoffman. No. 1,150,191; Aug. 17; Gaz. vol. 217; p. 775.
- Amalgamator. J. A. Macdonald. No. 1,128,024; Feb. 9; Gaz. vol. 211; p. 518.
- Amalgamator. C. W. Patten. No. 1,139,067; May 11; Gaz. vol. 214; p. 512.
- Amalgamator. J. C. Wood. No. 1,133,210; Mar. 23; Gaz. vol. 212; p. 1312.
- Amalgamator, Agitating electric. L. S. Roylance. No. 1,128,905; Feb. 16; Gaz. vol. 211; p. 874.
- Amalgamator and concentrator, Rotary. L. C. Dibert. No. 1,147,314; July 20; Gaz. vol. 216; p. 856.
- Amberlike substance, Making an. A. H. Peter. No. 1,147,264; July 20; Gaz. vol. 216; p. 841.
- Ambulance. R. H. Schleicher. No. 1,150,710; Aug. 17; Gaz. vol. 217; p. 955.
- Ambulance, Foldable. S. Krna. No. 1,128,333; Feb. 16; Gaz. vol. 211; p. 675.
- Ambulance, Stretcher. W. Jaskiewicz. No. 1,129,295; Feb. 23; Gaz. vol. 211; p. 1046.
- Ambulatory ankylosis and tendon apparatus. H. E. Bailey. No. 1,126,682; Feb. 2; Gaz. vol. 211; p. 5.
- Amids, cyanamids, and cyanides, Manufacture of metallic. E. A. Ashcroft. No. 1,163,498; Dec. 7; Gaz. vol. 221; p. 266.
- Amino-arsenobenzenes, Preparing. L. Ach and A. Rothmann. No. 1,156,044; Oct. 12; Gaz. vol. 219; p. 277.
- Aminosubstituted arylpyrazolon. W. Kropp. No. 1,151,885; Aug. 31; Gaz. vol. 217; p. 1463.
- Ammonia-absorber. C. W. Vogt. No. 1,149,005; Aug. 3; Gaz. vol. 217; p. 184.
- Ammonia and the like, Producing. J. E. Bucher. No. 1,138,191; May 4; Gaz. vol. 214; p. 165.
- Ammonia, Catalytic agent for use in producing. C. Bosch, A. Mittasch, H. Wolf, and G. Stern. No. 1,148,570; Aug. 3; Gaz. vol. 217; p. 31.
- Ammonia-condensing apparatus. J. A. Stutsman. No. 1,148,725; Aug. 3; Gaz. vol. 217; p. 87.
- Ammonia from a gaseous to a liquid state, Apparatus for condensing. H. C. Gardner. No. 1,129,477; Feb. 23; Gaz. vol. 211; p. 1110.
- Ammonia from calcium cyanamid, Making. W. S. Landis. No. 1,149,653; Aug. 10; Gaz. vol. 217; p. 522.
- Ammonia from calcium cyanamid, Making. W. S. Landis. No. 1,163,095; Dec. 7; Gaz. vol. 221; p. 125.
- Ammonia from its elements, Manufacture of. M. Pier. No. 1,157,253; Oct. 19; Gaz. vol. 219; p. 731.
- Ammonia-pipe union. F. N. Roeblich. No. 1,132,619; Mar. 23; Gaz. vol. 212; p. 1097.
- Ammonia, Producing. F. Haber, C. Bosch, and A. Mittasch. No. 1,149,510; Aug. 10; Gaz. vol. 217; p. 467.
- Ammonia, Producing. W. S. Landis. No. 1,154,640; Sept. 28; Gaz. vol. 218; p. 899.
- Ammonia, Producing sulfate of. A. F. Hilleke. No. 1,163,752; Dec. 14; Gaz. vol. 221; p. 403.
- Ammonia production. F. W. De Jahn. No. 1,151,537; Aug. 24; Gaz. vol. 217; p. 1295.
- Ammonia, Production of. C. Bosch and A. Mittasch. No. 1,128,843; Feb. 16; Gaz. vol. 211; p. 851.
- Ammonia, Production of. C. Bosch and A. Mittasch. No. 1,158,167; Oct. 26; Gaz. vol. 219; p. 1112.
- Ammonia, Production of. C. Bosch, A. Mittasch, H. Wolf, and G. Stern. No. 1,152,930; Sept. 7; Gaz. vol. 218; p. 202.
- Ammonia, Production of. F. W. De Jahn. No. 1,141,947; June 8; Gaz. vol. 215; p. 338.
- Ammonia, Production of. F. W. De Jahn. No. 1,141,948; June 8; Gaz. vol. 215; p. 339.
- Ammoniated acid phosphate and making same. T. L. Willson and M. M. Haff. No. 1,127,840; Feb. 9; Gaz. vol. 211; p. 454.
- Ammonia-saturator. A. F. Hilleke. No. 1,163,753; Dec. 14; Gaz. vol. 221; p. 403.

- Ammonium phosphate, Apparatus for making, F. S. Washburn. No. 1,151,074; Aug. 24; Gaz. vol. 217; p. 1137.
- Ammonium sulfate, Manufacturing, G. N. Vis. No. 1,152,244; Aug. 31; Gaz. vol. 217; p. 1585.
- Ammonium sulfate, Obtaining, G. N. Vis. No. 1,152,245; Aug. 31; Gaz. vol. 217; p. 1585.
- Ammonium sulfate, Producing, F. Tschudy. No. 1,155,385; Oct. 5; Gaz. vol. 219; p. 21.
- Ammonium sulfate, Production of, C. Bosch. No. 1,133,086; Mar. 23; Gaz. vol. 212; p. 1268.
- Ammunition, W. H. Buell. No. 1,156,857; Oct. 12; Gaz. vol. 219; p. 560.
- Ammunition, F. M. Hale. No. 1,141,540; June 1; Gaz. vol. 215; p. 162.
- Ammunition, Charge-separator for fixed, C. L. Wright. No. 1,151,643; Aug. 31; Gaz. vol. 217; p. 1378.
- Ammunition-conveying apparatus, Pneumatic, J. T. Cowley. No. 1,148,078; July 27; Gaz. vol. 216; p. 1155.
- Ammunition-conveying apparatus, Pneumatic, J. T. Cowley. No. 1,148,079; July 27; Gaz. vol. 216; p. 1155.
- Ammunition-conveying apparatus, Pneumatic, J. T. Cowley. No. 1,148,080; July 27; Gaz. vol. 216; p. 1156.
- Ammunition-conveying system, Pneumatic, J. T. Cowley. No. 1,148,082; July 27; Gaz. vol. 216; p. 1156.
- Ammunition elevating and loading device, Pneumatic, J. T. Cowley. No. 1,148,077; July 27; Gaz. vol. 216; p. 1154.
- Ammunition-holst, A. W. Bean and J. A. Killinger. No. 1,158,161; Oct. 26; Gaz. vol. 219; p. 1110.
- Ammunition-holst, J. T. Cowley. No. 1,148,081; July 27; Gaz. vol. 216; p. 1156.
- Ammunition-holst, J. D. Ihlder. No. 1,145,899; July 13; Gaz. vol. 216; p. 342.
- Ammunition-holst, W. H. Knowlton. No. 1,148,098; July 27; Gaz. vol. 216; p. 1162.
- Ammunition-holst, F. Reichard. No. 1,138,149; May 4; Gaz. vol. 214; p. 151.
- Ammunition-holst, A. V. Santarsiero. No. 1,157,048; Oct. 19; Gaz. vol. 219; p. 637.
- Ammunition-holst control, J. D. Ihlder and W. D. Lutz. No. 1,148,232; July 27; Gaz. vol. 216; p. 1208.
- Ammunition-receptacle, C. J. Ross. No. 1,163,369; Dec. 7; Gaz. vol. 221; p. 223.
- Ampul, E. W. Pierce. No. 1,139,368; May 11; Gaz. vol. 214; p. 616.
- Amusement apparatus, L. Dreifuss. No. 1,133,623; Mar. 30; Gaz. vol. 212; p. 1496.
- Amusement apparatus, C. Hermann. No. 1,149,513; Aug. 10; Gaz. vol. 217; p. 468.
- Amusement apparatus, F. J. Lilienfeld. No. 1,124,629; Jan. 12; Gaz. vol. 210; p. 545.
- Amusement apparatus, W. F. Mangels. No. 1,128,890; Feb. 16; Gaz. vol. 211; p. 867.
- Amusement apparatus, G. Muller. No. 1,141,821; June 1; Gaz. vol. 215; p. 256.
- Amusement apparatus, F. J. Riordan. No. 1,144,613; June 29; Gaz. vol. 215; p. 1359.
- Amusement apparatus or aviator-instructor, H. B. Anderson and B. B. Brockway. No. 1,123,653; Jan. 5; Gaz. vol. 210; p. 156.
- Amusement device, O. E. Adkins. No. 1,142,387; June 8; Gaz. vol. 215; p. 495.
- Amusement device, W. B. Choate. No. 1,143,808; June 22; Gaz. vol. 215; p. 1052.
- Amusement device, W. E. Davis. No. 1,138,091; May 4; Gaz. vol. 214; p. 131.
- Amusement device, T. O. Decker. No. 1,135,099; Apr. 13; Gaz. vol. 213; p. 407.
- Amusement device, H. F. C. Dueberg. No. 1,131,603; Mar. 9; Gaz. vol. 212; p. 645.
- Amusement device, P. S. Greene. No. 1,130,813; Mar. 9; Gaz. vol. 212; p. 372.
- Amusement device, W. W. Hall. No. 1,136,671; Apr. 20; Gaz. vol. 213; p. 999.
- Amusement device, H. Holt. No. 1,164,186; Dec. 14; Gaz. vol. 221; p. 552.
- Amusement device, A. Kiansten and J. Nelson. No. 1,152,183; Aug. 31; Gaz. vol. 217; p. 1563.
- Amusement device, S. Levi and W. F. Sultzer. No. 1,128,466; Feb. 16; Gaz. vol. 211; p. 721.
- Amusement device, A. V. Lott. No. 1,145,326; July 6; Gaz. vol. 216; p. 122.
- Amusement device, M. M. Mauck. No. 1,133,489; Mar. 30; Gaz. vol. 212; p. 1445.
- Amusement device, J. Stanley and J. C. Porter. No. 1,165,552; Dec. 28; Gaz. vol. 221; p. 1108.
- Amusement device, W. S. Tothill. No. 1,142,996; June 15; Gaz. vol. 215; p. 746.
- Amusement device, J. M. West. No. 1,160,802; Nov. 16; Gaz. vol. 220; p. 929.
- Amusement device, W. Wnenk. No. 1,163,299; Dec. 7; Gaz. vol. 221; p. 197.
- Amusement device, Electrical, W. and F. Prina. No. 1,151,300; Aug. 24; Gaz. vol. 217; p. 1243.
- Amusement device, Horse-ride, C. F. Peck. No. 1,165,898; Dec. 28; Gaz. vol. 221; p. 1229.
- Amusement device, Mechanical, A. Gordon. No. 1,147,391; July 20; Gaz. vol. 216; p. 886.
- Anatomical study, Transparent model for, H. Murayama. No. 1,141,480; June 1; Gaz. vol. 215; p. 141.
- Anchor, C. W. Edwards. No. 1,137,745; May 4; Gaz. vol. 214; p. 9.
- Anchor, J. Masak. No. 1,139,202; May 11; Gaz. vol. 214; p. 560.
- Anchor and oil-tank, Sea, L. and O. Kahnweiler. No. 1,133,154; Mar. 23; Gaz. vol. 212; p. 1293.
- Anchor-cable-cutting apparatus for submarine boats, J. Barraja-Frauenfelder. No. 1,158,160; Oct. 26; Gaz. vol. 219; p. 1110.
- Anchor-drill, O. K. Dunbar. No. 1,147,791; July 27; Gaz. vol. 216; p. 1051.
- Anchor, Expansion, J. E. Kegreisz. No. 1,153,797; Sept. 14; Gaz. vol. 218; p. 545.
- Anchor, Ground-, C. L. Matthews. No. 1,142,347; June 8; Gaz. vol. 215; p. 479.
- Anchor, Guy-, S. R. Schaff. No. 1,153,450; Sept. 14; Gaz. vol. 218; p. 423.
- Anchor-plate, W. C. Ladd. No. 1,136,817; Apr. 20; Gaz. vol. 213; p. 1052.
- Anchor-plates, Driver for, W. L. Haag. No. 1,135,013; Apr. 13; Gaz. vol. 213; p. 377.
- Anchor-winch, A. L. Hunt and C. Sagemiller. No. 1,147,095; July 20; Gaz. vol. 216; p. 782.
- Anchoring device, R. G. Howard. No. 1,157,781; Oct. 26; Gaz. vol. 219; p. 975.
- Anchoring device, S. R. Paradise. No. 1,148,924; Aug. 3; Gaz. vol. 217; p. 156.
- Androns and grate, Combined, A. K. Wilderspin. No. 1,127,333; Feb. 2; Gaz. vol. 211; p. 233.
- Anemometer, A. Ogilvie. No. 1,146,202; July 13; Gaz. vol. 216; p. 449.
- Anesthetic apparatus, O. J. Cunningham. No. 1,129,171; Feb. 23; Gaz. vol. 211; p. 1002.
- Anesthetics, Apparatus for use in administering, A. Humphries. No. 1,125,542; Jan. 19; Gaz. vol. 210; p. 904.
- Anesthetics, Device used in administering, L. A. Jaros. No. 1,128,317; Feb. 16; Gaz. vol. 211; p. 669.
- Angle-bar, E. C. Carter. No. 1,155,793; Oct. 5; Gaz. vol. 219; p. 163.
- Angle-brace, G. H. Pirson. No. 1,141,210; June 1; Gaz. vol. 215; p. 43.
- Angle-cock holder, S. H. Campbell. No. 1,148,751; Aug. 3; Gaz. vol. 217; p. 97.
- Angle-gage, M. J. Palmer. No. 1,127,802; Feb. 9; Gaz. vol. 211; p. 440.
- Angle-iron-bending machine, F. V. Burman. No. 1,144,459; June 29; Gaz. vol. 215; p. 1308.
- Angle-iron legs, Antifriction device for, C. L. Plunkett. No. 1,157,657; Oct. 19; Gaz. vol. 219; p. 868.
- Angle iron, Universal right-, W. L. Simmons. No. 1,148,196; July 27; Gaz. vol. 216; p. 1196.
- Angle-mill, J. B. Cornwall. No. 1,144,174; June 22; Gaz. vol. 215; p. 1182.
- Angle-plate, C. H. Irwin. No. 1,128,986; Feb. 16; Gaz. vol. 211; p. 902.
- Angle-plate, Universal, J. R. Beckett. No. 1,155,987; Oct. 5; Gaz. vol. 219; p. 229.
- Anhydrous hydrosulfites from aqueous hydrosulfite, Production of, H. Speckter and G. Munch. No. 1,156,107; Oct. 12; Gaz. vol. 219; p. 298.
- Anhydrous hydrosulfites, Manufacture of, E. von Porthem. No. 1,166,160; Dec. 28; Gaz. vol. 221; p. 1325.
- Anhydrous reaction products of phenol and formaldehyde, Production of, F. G. Wiechmann. No. 1,126,926; Feb. 2; Gaz. vol. 211; p. 92.
- Animal-controlling device, A. Anderson. No. 1,125,247; Jan. 19; Gaz. vol. 210; p. 801.
- Animal-dip, Preparation of a concentrated, R. M. Chapin. No. 1,137,844; May 4; Gaz. vol. 214; p. 43.
- Animal-holding machine, S. Little. No. 1,136,439; Apr. 20; Gaz. vol. 213; p. 914.
- Animal objects, Preserving, P. Deegener and W. Berndt. No. 1,163,645; Dec. 14; Gaz. vol. 221; p. 363.
- Animal-prod. Electric, W. B. Floyd. No. 1,158,473; Nov. 2; Gaz. vol. 220; p. 22.
- Animal-releasing device, T. Kollner. No. 1,139,539; May 18; Gaz. vol. 214; p. 712.
- Animal-releasing device, E. Noennig. No. 1,139,563; Mar. 18; Gaz. vol. 214; p. 721.
- Animal-releasing device, F. Sundvik and C. Johansson. No. 1,165,727; Dec. 28; Gaz. vol. 221; p. 1172.
- Animal-restrainer, W. Johnson. No. 1,163,090; Dec. 7; Gaz. vol. 221; p. 123.
- Animal shears or clipper, J. Bodene. No. 1,124,843; Jan. 12; Gaz. vol. 210; p. 621.
- Animal-tail holder, J. Strelt. No. 1,149,097; Aug. 3; Gaz. vol. 217; p. 215.
- Animal-trap, A. Boswell. No. 1,132,428; Mar. 16; Gaz. vol. 212; p. 978.
- Animal-trap, C. Bowling. No. 1,151,438; Aug. 24; Gaz. vol. 217; p. 1259.
- Animal-trap, G. E. Brown. No. 1,164,916; Dec. 21; Gaz. vol. 221; p. 848.
- Animal-trap, J. A. Cameron. No. 1,142,781; June 8; Gaz. vol. 215; p. 631.
- Animal-trap, J. Campbell. No. 1,150,927; Aug. 24; Gaz. vol. 217; p. 1088.
- Animal-trap, G. Claeson. No. 1,131,908; Mar. 16; Gaz. vol. 212; p. 788.
- Animal-trap, D. D. Dennis. No. 1,139,501; May 18; Gaz. vol. 214; p. 700.
- Animal-trap, T. J. Ellison. No. 1,149,190; Aug. 10; Gaz. vol. 217; p. 352.

Alphabetical list of inventions—Continued.

- Animal-trap. G. M. Fox. No. 1,160,872; Nov. 16; Gaz. vol. 220; p. 952.
- Animal-trap. R. A. Green. No. 1,143,698; June 22; Gaz. vol. 215; p. 1015.
- Animal-trap. B. F. Hoffman. No. 1,144,545; June 29; Gaz. vol. 215; p. 1336.
- Animal-trap. T. J. Lapraeth. No. 1,146,004; July 13; Gaz. vol. 216; p. 380.
- Animal-trap. W. Ledyard. No. 1,160,622; Nov. 16; Gaz. vol. 220; p. 864.
- Animal-trap. W. Ledyard. No. 1,160,623; Nov. 16; Gaz. vol. 220; p. 865.
- Animal-trap. N. Liberato. No. 1,124,043; Jan. 5; Gaz. vol. 210; p. 287.
- Animal-trap. J. E. Lingenfelter. No. 1,164,369; Dec. 14; Gaz. vol. 221; p. 617.
- Animal-trap. W. P. Mansfield. No. 1,130,992; Mar. 3; Gaz. vol. 212; p. 434.
- Animal-trap. G. P. Marquardt. No. 1,144,607; June 29; Gaz. vol. 215; p. 1357.
- Animal-trap. E. T. Marsh. No. 1,138,132; May 4; Gaz. vol. 214; p. 146.
- Animal-trap. R. McClure. No. 1,157,882; Oct. 26; Gaz. vol. 219; p. 1011.
- Animal-trap. T. E. McDermott. No. 1,148,243; July 27; Gaz. vol. 216; p. 1212.
- Animal-trap. A. Melin. No. 1,145,254; July 6; Gaz. vol. 216; p. 98.
- Animal-trap. T. I. Moen. No. 1,141,815; June 1; Gaz. vol. 215; p. 254.
- Animal-trap. D. R. Reefer. No. 1,151,041; Aug. 24; Gaz. vol. 217; p. 1127.
- Animal-trap. F. S. Ricker. No. 1,143,589; June 15; Gaz. vol. 215; p. 953.
- Animal-trap. J. E. Ruby. No. 1,159,100; Nov. 2; Gaz. vol. 220; p. 238.
- Animal-trap. A. Salof. No. 1,165,289; Dec. 21; Gaz. vol. 221; p. 978.
- Animal-trap. E. Sandkuhl. No. 1,124,532; Jan. 12; Gaz. vol. 210; p. 509.
- Animal-trap. W. A. Seeley and H. M. Vetterlein. No. 1,139,587; May 18; Gaz. vol. 214; p. 729.
- Animal-trap. E. F. Siddons. No. 1,130,852; Mar. 9; Gaz. vol. 212; p. 386.
- Animal-trap. A. J. Smith. No. 1,147,822; July 27; Gaz. vol. 216; p. 1063.
- Animal-trap. D. M. Wright. No. 1,131,306; Mar. 9; Gaz. vol. 212; p. 542.
- Animal-trap. C. A. Carlson. No. 1,130,667; Mar. 2; Gaz. vol. 212; p. 289.
- Animal tread, Draft. J. H. Dolan. No. 1,153,374; Sept. 14; Gaz. vol. 218; p. 396.
- Ankle-joint for artificial limbs. J. F. Rowley. No. 1,128,928; Jan. 5; Gaz. vol. 210; p. 249.
- Ankle-support. H. W. Toepper. No. 1,126,590; Jan. 26; Gaz. vol. 210; p. 1317.
- Annealing apparatus. F. Kammerer. No. 1,133,647; Mar. 30; Gaz. vol. 212; p. 1504.
- Annealing-box. P. E. Hunter. No. 1,154,400; Sept. 21; Gaz. vol. 218; p. 788.
- Annealing-boxes, Supporting-bottom for. P. E. Hunter. No. 1,149,770; Aug. 10; Gaz. vol. 217; p. 562.
- Annealing-furnace. C. J. Nolan. No. 1,125,154; Jan. 19; Gaz. vol. 210; p. 766.
- Annealing-furnace. J. E. White. No. 1,158,760; Nov. 2; Gaz. vol. 220; p. 123.
- Annealing-furnace, Continuous. F. Ingraham and D. Lynch. No. 1,147,731; July 27; Gaz. vol. 216; p. 1032.
- Annealing magnetic material. W. E. Ruder. No. 1,156,496; Oct. 12; Gaz. vol. 219; p. 434.
- Annunciator. L. C. Hodson. No. 1,144,843; June 29; Gaz. vol. 215; p. 1440.
- Annunciator, O. M. Leich. No. 1,144,605; June 29; Gaz. vol. 215; p. 1356.
- Annunciator. A. and A. Schmalz. No. 1,164,224; Dec. 14; Gaz. vol. 221; p. 564.
- Annunciator, Automatic. J. H. Genter. No. 1,147,501; July 20; Gaz. vol. 216; p. 924.
- Annunciator-case, Weatherproof. A. and P. K. Stern. No. 1,144,871; June 29; Gaz. vol. 215; p. 1450.
- Annunciator-drop. C. Auth. No. 1,142,477; June 8; Gaz. vol. 215; p. 527.
- Annunciator-drop. S. H. Couch, W. W. Henry, and A. E. Stevens. No. 1,134,996; Apr. 13; Gaz. vol. 213; p. 370.
- Annunciator-fixture for residences. E. E. Berthold. No. 1,149,973; Aug. 10; Gaz. vol. 217; p. 636.
- Annunciator, Mechanical. L. C. Swain. No. 1,140,631; May 25; Gaz. vol. 214; p. 1133.
- Annunciator or code signaling device, Electric. N. L. Anthony. No. 1,131,813; Mar. 16; Gaz. vol. 212; p. 756.
- Annunciator, Self-restoring. A. C. Reid. No. 1,138,688; May 11; Gaz. vol. 214; p. 376.
- Annunciator, Street and station. E. C. Brull. No. 1,148,572; Aug. 3; Gaz. vol. 217; p. 32.
- Annunciators and the like, Indicating device for. M. Nordoff. No. 1,131,855; Mar. 16; Gaz. vol. 212; p. 771.
- Anode for discharge-tubes. T. H. Gebauer. No. 1,131,606; Mar. 9; Gaz. vol. 212; p. 646.
- Anodes, Manufacturing. P. C. C. Isherwood. No. 1,143,828; June 22; Gaz. vol. 215; p. 1058.
- Ant-trap. S. L. Cox. No. 1,135,159; Apr. 13; Gaz. vol. 213; p. 428.
- Ant-trap. J. A. Holman. No. 1,126,216; Jan. 26; Gaz. vol. 210; p. 1180.
- Anti-rail-creeper. R. J. Berthoud. No. 1,162,968; Dec. 7; Gaz. vol. 221; p. 82.
- Anti-rail-spreading device. A. T. Lorgreen. No. 1,164,107; Dec. 14; Gaz. vol. 221; p. 526.
- Anti-rail-spreading device. L. H. Reinhardt. No. 1,137,083; Apr. 27; Gaz. vol. 213; p. 1183.
- Anticreeper. W. H. Ferguson. No. 1,152,802; Sept. 7; Gaz. vol. 218; p. 154.
- Anticreeper. P. W. Moore. No. 1,140,345; May 18; Gaz. vol. 214; p. 996.
- Anticreeper. F. A. Preston. No. 1,133,399; Mar. 30; Gaz. vol. 212; p. 1415.
- Anticreeper. F. A. Preston. No. 1,152,760; Sept. 7; Gaz. vol. 218; p. 139.
- Anticreeper. F. A. Preston. No. 1,163,172; Dec. 7; Gaz. vol. 221; p. 154.
- Anticreeper. B. Wolhaupter. No. 1,139,391; May 11; Gaz. vol. 214; p. 624.
- Anticreeper with pin-lock. H. G. Warr. No. 1,160,116; Nov. 9; Gaz. vol. 220; p. 632.
- Antipyretic, o-sulfamidobenzoyl-p-phenetidin, and producing the same. J. Lagutt. No. 1,153,121; Sept. 7; Gaz. vol. 218; p. 267.
- Antiseptic compound. W. J. Knox. No. 1,139,774; May 18; Gaz. vol. 214; p. 795.
- Antisepsitically-acting bodies, Production of. R. F. von Walther. No. 1,144,270; June 22; Gaz. vol. 215; p. 1215.
- Antirooter instrument. H. M. Sheer. No. 1,149,959; Aug. 10; Gaz. vol. 217; p. 630.
- Antiskid and quick-stop. M. D. Van Auken. No. 1,151,068; Aug. 24; Gaz. vol. 217; p. 1135.
- Antiskid and traction wheel. H. Leap. No. 1,165,187; Dec. 21; Gaz. vol. 221; p. 944.
- Antiskid attachment for tires. A. G. Bruce. No. 1,138,189; May 4; Gaz. vol. 214; p. 164.
- Antiskid attachment for tires. A. Gorecki. No. 1,140,590; May 25; Gaz. vol. 214; p. 1118.
- Antiskid attachment for tires. J. Marczl. No. 1,130,310; Mar. 2; Gaz. vol. 212; p. 163.
- Antiskid-chains, Combination-tool for use in applying and removing. W. Featheringill. No. 1,150,260; Aug. 17; Gaz. vol. 217; p. 800.
- Antiskid device. W. Grus, Jr. No. 1,164,279; Dec. 14; Gaz. vol. 221; p. 584.
- Antiskid device. G. T. Heckmann. No. 1,160,890; Nov. 16; Gaz. vol. 220; p. 959.
- Antiskid device. W. A. Parr. No. 1,128,035; Feb. 9; Gaz. vol. 211; p. 522.
- Antiskid device. E. S. Roberts. No. 1,164,214; Dec. 14; Gaz. vol. 221; p. 561.
- Antiskid device. G. Seach. No. 1,135,854; Apr. 13; Gaz. vol. 213; p. 670.
- Antiskidding and traction appliance for vehicle-wheels. J. McMullen. No. 1,154,525; Sept. 21; Gaz. vol. 218; p. 829.
- Antiskidding armor for tires. H. W. White and A. T. Sheldon. No. 1,158,607; Nov. 2; Gaz. vol. 220; p. 70.
- Antiskidding attachment for automobiles. C. A. B. Delger. No. 1,133,272; Mar. 30; Gaz. vol. 212; p. 1370.
- Antiskidding chain for vehicle-wheels. J. P. McGarry. No. 1,153,936; Sept. 21; Gaz. vol. 218; p. 628.
- Antiskidding device. C. H. Becker. No. 1,148,281; July 27; Gaz. vol. 216; p. 1227.
- Antiskidding device. D. V. Kaufman. No. 1,142,583; June 8; Gaz. vol. 215; p. 563.
- Antiskidding device. O. G. Ost. No. 1,147,182; July 20; Gaz. vol. 216; p. 812.
- Antiskidding device. A. Purdie. No. 1,142,909; June 15; Gaz. vol. 215; p. 714.
- Antiskidding device for automobile-wheels. L. Davidson. No. 1,123,702; Jan. 5; Gaz. vol. 210; p. 171.
- Antiskidding device for automobiles. O. M. Beetz. No. 1,159,823; Nov. 9; Gaz. vol. 220; p. 530.
- Antiskidding device for automobiles and the like. H. Miller. No. 1,132,206; Mar. 12; Gaz. vol. 212; p. 897.
- Antiskidding device for autotrucks. J. P. Webber. No. 1,126,141; Jan. 26; Gaz. vol. 210; p. 1152.
- Antiskidding device for dual tires. H. D. Weed. No. 1,147,470; July 20; Gaz. vol. 216; p. 914.
- Antiskidding device for motor-vehicles. W. Norton. No. 1,147,040; July 20; Gaz. vol. 216; p. 763.
- Antiskidding device for vehicle-tires. H. W. White and A. T. Sheldon. No. 1,152,065; Aug. 31; Gaz. vol. 217; p. 1524.
- Antiskidding device for vehicles. O. H. Young. No. 1,141,676; June 1; Gaz. vol. 215; p. 210.
- Antiskidding driving mechanism, Differential. B. Settergren. No. 1,141,839; June 1; Gaz. vol. 215; p. 262.
- Antiskidding rail-clamp mechanism. A. E. Wirsing. No. 1,137,104; Apr. 27; Gaz. vol. 213; p. 1191.
- Antislipping and antiwearing material. R. B. Price. No. 1,162,396; Nov. 30; Gaz. vol. 220; p. 1578.
- Antislipping device for tires. O. P. Chubbuck. No. 1,131,116; Mar. 9; Gaz. vol. 212; p. 476.
- Antislipping tread for horses, Detachable. G. E. Spare. No. 1,136,903; Apr. 20; Gaz. vol. 213; p. 1082.
- Anvil. A. C. Harrington. No. 1,124,731; Jan. 12; Gaz. vol. 210; p. 581.

- Anvil and swage. K. D. Tidwell. No. 1,160,467; Nov. 16; Gaz. vol. 220; p. 807.
- Anvil attachment. N. J. Gendron. No. 1,147,013; July 20; Gaz. vol. 216; p. 754.
- Anvil attachment. J. R. Mabes. No. 1,124,158; Jan. 5; Gaz. vol. 210; p. 327.
- Anvil-pedal. H. R. Bliss and L. Johnston. No. 1,131,320; Mar. 9; Gaz. vol. 212; p. 548.
- Anvil, vise, and drill, Combined. F. R. Stewart. No. 1,129,752; Feb. 23; Gaz. vol. 211; p. 1201.
- Anvils. Hammer attachment for. A. Gaines. No. 1,150,262; Aug. 17; Gaz. vol. 217; p. 801.
- Anvils. Metal-punching mechanism for. P. J. Hoffman. No. 1,158,499; Nov. 2; Gaz. vol. 220; p. 31.
- Anvils, Stand for swaging. E. L. Chott. No. 1,134,728; Apr. 6; Gaz. vol. 213; p. 236.
- Apparatus for applying closures. L. G. Cancellieri and A. Chappelletti. No. 1,125,466; Jan. 19; Gaz. vol. 210; p. 878.
- Apparel-fastening device. Wearing-. E. Battisti. No. 1,129,624; Feb. 23; Gaz. vol. 211; p. 1162.
- Apparel, Head wearing-. M. F. Harris and W. D. Lewis. No. 1,139,675; May 18; Gaz. vol. 214; p. 762.
- Apparel, Wearing-. M. Herman. No. 1,138,951; May 11; Gaz. vol. 214; p. 470.
- Apparel, Wearing-. S. Uyeda. No. 1,149,158; Aug. 3; Gaz. vol. 217; p. 236.
- Apple-gage. H. M. Hoyt. No. 1,142,573; June 8; Gaz. vol. 215; p. 560.
- Applicator. A. A. Ellis. No. 1,131,349; Mar. 9; Gaz. vol. 212; p. 556.
- Applicator, container, and swab. Combined. A. D. Tuttle. No. 1,131,575; Mar. 9; Gaz. vol. 212; p. 634.
- Appointment-announcer. S. R. Schaff. No. 1,137,427; Apr. 27; Gaz. vol. 213; p. 1310.
- Apportioning-machine. J. W. Hasburg. No. 1,147,393; July 20; Gaz. vol. 216; p. 887.
- Apron. R. L. Guggenheimer. No. 1,156,900; Oct. 19; Gaz. vol. 219; p. 604.
- Apron. A. N. Pellant. No. 1,165,538; Dec. 28; Gaz. vol. 221; p. 1103.
- Apron. G. A. Steiner and W. F. Tuckett. No. 1,136,732; Apr. 20; Gaz. vol. 213; p. 1022.
- Apron-guiding device. F. G. Sargent and C. T. Brooks. No. 1,152,439; Sept. 7; Gaz. vol. 218; p. 20.
- Apron, Mechanic's. G. E. Kelly and E. J. Emery. No. 1,139,532; May 18; Gaz. vol. 214; p. 710.
- Apron, Protective. H. P. Rindskopf. No. 1,149,950; Aug. 10; Gaz. vol. 217; p. 628.
- Apron, Pullman and shampoo. L. Morse. No. 1,135,833; Apr. 13; Gaz. vol. 213; p. 663.
- Apron, Sanitary. C. G. Nelson. No. 1,165,533; Dec. 28; Gaz. vol. 221; p. 1101.
- Apron-wheel. L. A. Krupp. No. 1,148,518; Aug. 3; Gaz. vol. 217; p. 12.
- Apron-wheel, Roller-bearing. J. B. Hill. No. 1,128,138; Feb. 9; Gaz. vol. 211; p. 558.
- Aquarium. E. C. Elg. No. 1,127,976; Feb. 9; Gaz. vol. 211; p. 501.
- Arbor-press. E. E. Bartlett. No. 1,135,983; Apr. 20; Gaz. vol. 213; p. 756.
- Arbor-press. J. B. Flint. No. 1,128,240; Feb. 9; Gaz. vol. 211; p. 592.
- Arbor-press. R. S. Whitney. No. 1,128,563; Feb. 16; Gaz. vol. 211; p. 753.
- Arc-light. G. Humber. No. 1,146,498; July 16; Gaz. vol. 216; p. 555.
- Arch construction. L. Bernhard. No. 1,158,776; Nov. 2; Gaz. vol. 220; p. 128.
- Arch, Fire-. C. E. Miller. No. 1,138,043; May 4; Gaz. vol. 214; p. 112.
- Arch, Fire-brick. C. F. Stevens. No. 1,130,345; Mar. 2; Gaz. vol. 212; p. 174.
- Arch or instep supporter. H. Plessens. No. 1,153,441; Sept. 14; Gaz. vol. 218; p. 420.
- Arch-support. R. E. Belcher. No. 1,131,900; Mar. 16; Gaz. vol. 212; p. 786.
- Arch-support. A. E. Block. No. 1,145,180; July 6; Gaz. vol. 216; p. 72.
- Arch-support. J. H. Clune. No. 1,152,078; Aug. 31; Gaz. vol. 217; p. 1529.
- Arch-support. E. P. Cushman. No. 1,163,305; Dec. 7; Gaz. vol. 221; p. 232.
- Arch-support. E. J. Emery. No. 1,125,989; Jan. 26; Gaz. vol. 210; p. 1096.
- Arch-support. A. F. Greenig. No. 1,153,064; Sept. 7; Gaz. vol. 218; p. 248.
- Arch-support. P. B. Howard. No. 1,133,965; Mar. 30; Gaz. vol. 212; p. 1614.
- Arch-support. L. Lobel and N. Frank. No. 1,129,039; Feb. 16; Gaz. vol. 211; p. 921.
- Arch-support. W. E. Parmelee. No. 1,146,899; July 20; Gaz. vol. 216; p. 713.
- Arch-support. F. Roehn. No. 1,164,316; Dec. 14; Gaz. vol. 221; p. 598.
- Arch support. W. M. Scholl. No. 1,152,556; Sept. 7; Gaz. vol. 218; p. 65.
- Arch-support. J. F. Teehan. No. 1,144,741; June 29; Gaz. vol. 215; p. 1405.
- Arch-support, Flexible. E. Anderson. No. 1,133,781; Mar. 30; Gaz. vol. 212; p. 1552.
- Arch-supporter. M. F. Creahan. No. 1,134,108; Apr. 6; Gaz. vol. 213; p. 9.
- Arch-supporter. E. Drenshstein. No. 1,135,100; Apr. 13; Gaz. vol. 213; p. 407.
- Arch-supporter. W. O. Wetmore. No. 1,145,533; July 6; Gaz. vol. 216; p. 195.
- Arch-supporter. W. O. Wetmore. No. 1,145,534; July 6; Gaz. vol. 216; p. 195.
- Architectural terra-cotta construction. I. B. Hill. No. 1,134,741; Apr. 6; Gaz. vol. 213; p. 240.
- Aring-ground suppressor. A. Chernyshoff. No. 1,160,844; Nov. 16; Gaz. vol. 220; p. 943.
- Arctograph. A. W. Allen. No. 1,146,607; July 13; Gaz. vol. 216; p. 593.
- Arm-band. C. F. Corcoran. No. 1,164,928; Dec. 21; Gaz. vol. 221; p. 853.
- Arm-chair, Foldable. J. O. Gallup. No. 1,162,598; Nov. 30; Gaz. vol. 220; p. 1646.
- Arm, Extension-. B. F. Groul. No. 1,155,916; Oct. 5; Gaz. vol. 219; p. 206.
- Arm-rest. G. Blundell. No. 1,135,155; Apr. 13; Gaz. vol. 213; p. 427.
- Arm-shield. W. C. Hill. No. 1,147,630; July 20; Gaz. vol. 216; p. 970.
- Armature. T. Abtmeyer. No. 1,153,474; Sept. 14; Gaz. vol. 218; p. 431.
- Armature-coil former. J. A. Wirth. No. 1,141,166; June 1; Gaz. vol. 215; p. 27.
- Armature-coil former. J. A. Wirth. No. 1,141,891; June 1; Gaz. vol. 215; p. 281.
- Armature-coils, Apparatus for winding. J. C. Simonsen. No. 1,161,988; Nov. 30; Gaz. vol. 220; p. 1437.
- Armature-coils, Device for securing. P. Kennedy and J. A. Misland. No. 1,124,456; Jan. 12; Gaz. vol. 210; p. 482.
- Armature for electrical machines. R. M. Warren. No. 1,136,907; Apr. 20; Gaz. vol. 213; p. 1083.
- Armature for magnetos. B. Ames. No. 1,153,006; Sept. 7; Gaz. vol. 218; p. 229.
- Armature-spring. B. Ames. No. 1,140,432; May 25; Gaz. vol. 214; p. 1062.
- Armature-winding. Y. Sakai. No. 1,156,711; Oct. 12; Gaz. vol. 219; p. 508.
- Armor. W. Bradley. No. 1,154,689; Sept. 28; Gaz. vol. 218; p. 916.
- Armor for flexible articles. C. Barbour. No. 1,155,460; Oct. 5; Gaz. vol. 219; p. 47.
- Armor or other metal plate. J. O. Ellinger. No. 1,142,241; June 8; Gaz. vol. 215; p. 443.
- Armor-plates, Press for the manufacture of. H. Gler. No. 1,129,663; Feb. 23; Gaz. vol. 211; p. 1173.
- Armor-plating for safes, strong-rooms, &c. E. Bauer. No. 1,132,902; Mar. 23; Gaz. vol. 212; p. 1200.
- Armor, Submarine. H. L. Bowdoin. No. 1,146,781; July 20; Gaz. vol. 216; p. 672.
- Aromatic nitro-bodies, Continuous reduction of. J. E. Marwedel. No. 1,124,776; Jan. 12; Gaz. vol. 210; p. 597.
- Article-carrier. G. M. Euson. No. 1,140,585; May 25; Gaz. vol. 214; p. 1116.
- Article-delivering machine. A. C. Harrington. No. 1,124,729; Jan. 12; Gaz. vol. 210; p. 580.
- Article-feeding mechanism. A. M. Augensen. No. 1,138,583; May 4; Gaz. vol. 214; p. 301.
- Article-holder. R. B. Gilchrist. No. 1,155,562; Oct. 5; Gaz. vol. 219; p. 82.
- Article-holder. W. Y. Henry. No. 1,147,019; July 20; Gaz. vol. 216; p. 756.
- Article-holder. J. M. Kaiser. No. 1,155,581; Oct. 5; Gaz. vol. 219; p. 89.
- Article-holding devices, Producing. G. Collis. No. 1,130,378; Mar. 2; Gaz. vol. 212; p. 187.
- Article of manufacture. A. S. Hoyt. No. 1,148,454; July 27; Gaz. vol. 216; p. 1286.
- Articles, Means for supplying. F. A. Rumney. No. 1,146,024; July 13; Gaz. vol. 216; p. 387.
- Artillery, Adjustable axletree for mobile. N. Koch. No. 1,163,019; Dec. 7; Gaz. vol. 221; p. 99.
- Artillery-carriage, Demountable. F. Sachtleben. No. 1,164,402; Dec. 14; Gaz. vol. 221; p. 629.
- Artillery percussion-primer-closing disk. W. I. Macomber. No. 1,163,937; Dec. 14; Gaz. vol. 221; p. 467.
- Artillery, Train-gear for mobile. H. Rabba. No. 1,163,036; Dec. 7; Gaz. vol. 221; p. 105.
- Artillery-wheel. H. E. Flick and L. W. Long. No. 1,155,906; Oct. 5; Gaz. vol. 219; p. 202.
- Asbestos and like drying apparatus. L. A. Rice. No. 1,123,377; Jan. 5; Gaz. vol. 210; p. 62.
- Aseptic box or carton for packing medical supplies. R. T. Cameron. No. 1,143,103; June 15; Gaz. vol. 215; p. 784.
- Aseptic instrument-case. H. Pedretti. No. 1,149,941; Aug. 10; Gaz. vol. 217; p. 624.
- Ash and garbage can. H. Bauman. No. 1,135,426; Apr. 13; Gaz. vol. 213; p. 519.
- Ash cart and can. H. Kastor. No. 1,133,155; Mar. 23; Gaz. vol. 212; p. 1293.
- Ash-pan and apron for furnaces. H. I. Rogers. No. 1,158,296; Oct. 26; Gaz. vol. 219; p. 1157.
- Ash-pan holder. C. G. and J. H. Colwell. No. 1,132,561; Mar. 23; Gaz. vol. 212; p. 1074.
- Ash-receptacle. E. J. Baur. No. 1,160,820; Nov. 16; Gaz. vol. 220; p. 935.

Alphabetical list of inventions—Continued.

- Ash-screen. J. O. Morris. No. 1,150,615; Aug. 17; Gaz. vol. 217; p. 923.
- Ash-sifting shovel. W. J. Davidson. No. 1,165,574; Dec. 28; Gaz. vol. 221; p. 1116.
- Ash-tray. G. M. Demarest. No. 1,159,656; Nov. 9; Gaz. vol. 220; p. 468.
- Ashes, Apparatus for sifting. D. J. Murphy. No. 1,128,712; Feb. 16; Gaz. vol. 211; p. 804.
- Ashes-ejecting apparatus. W. S. Parsons. No. 1,131,951; Mar. 16; Gaz. vol. 212; p. 804.
- Ashes, garbage, and other refuse, Apparatus for handling. S. E. Jenkins. No. 1,143,278; June 15; Gaz. vol. 215; p. 845.
- Asparagus-can. G. W. Weber. No. 1,158,089; Oct. 26; Gaz. vol. 219; p. 1085.
- Asparagus-cutter. E. W. Moore. No. 1,137,777; May 4; Gaz. vol. 214; p. 19.
- Asphalt cement from natural asphalt, Manufacture of. C. N. Forrest. No. 1,163,593; Dec. 7; Gaz. vol. 221; p. 300.
- Asphalt-heater. T. H. Phelps. No. 1,150,383; Aug. 17; Gaz. vol. 217; p. 842.
- Asphalt, Mixing. J. H. Bledsoe. No. 1,136,205; Apr. 20; Gaz. vol. 213; p. 833.
- Asphalt-mixing apparatus. J. H. Bledsoe. No. 1,136,204; Apr. 20; Gaz. vol. 213; p. 833.
- Assembling and securing together separated parts. R. I. Graf. No. 1,165,089; Dec. 21; Gaz. vol. 221; p. 909.
- Assembling-machine. S. Mucci. No. 1,163,255; Dec. 7; Gaz. vol. 221; p. 183.
- Assembling-machine. W. Wattie. No. 1,132,136; Mar. 16; Gaz. vol. 212; p. 872.
- Assembling or disassembling device. V. G. and E. J. Gustafson. No. 1,144,471; June 29; Gaz. vol. 215; p. 1312.
- Assembling-rig. W. H. Parry. No. 1,148,713; Aug. 3; Gaz. vol. 217; p. 82.
- Assorter, Successive and selective. G. A. Smith. No. 1,154,814; Sept. 28; Gaz. vol. 218; p. 957.
- Assorting and delivering mechanism. D. W. Colby. No. 1,139,401; May 11; Gaz. vol. 214; p. 628.
- Assorting-machine. F. W. Burpee. No. 1,150,171; Aug. 17; Gaz. vol. 217; p. 768.
- Astronomical appliance. C. J. Kullmer. No. 1,126,231; Jan. 26; Gaz. vol. 210; p. 1186.
- Astronomical demonstrating device. S. B. McHenry. No. 1,134,473; Apr. 6; Gaz. vol. 213; p. 142.
- Astronomical educational apparatus. L. M. Houseknecht. No. 1,140,160; May 18; Gaz. vol. 214; p. 932.
- Astronomical instrument for indicating positions of celestial objects. W. Peck. No. 1,130,625; Mar. 2; Gaz. vol. 212; p. 274.
- Athletic ball. T. A. and J. Olivir. No. 1,140,845; May 25; Gaz. vol. 214; p. 1205.
- Athletic guard. H. R. Hart. No. 1,158,208; Oct. 26; Gaz. vol. 219; p. 1126.
- Atomizer. F. P. Bergh. No. 1,129,540; Feb. 23; Gaz. vol. 211; p. 1132.
- Atomizer. W. L. Engshauser. No. 1,151,254; Aug. 24; Gaz. vol. 217; p. 1200.
- Atomizer. H. A. Grine. No. 1,156,840; Oct. 12; Gaz. vol. 219; p. 553.
- Atomizer. E. R. Macbeth. No. 1,134,689; Apr. 6; Gaz. vol. 213; p. 221.
- Atomizer. J. G. Mastin. No. 1,141,721; June 1; Gaz. vol. 215; p. 225.
- Atomizer. W. R. Munro. No. 1,145,029; July 6; Gaz. vol. 216; p. 19.
- Atomizer, Liquid. D. J. Irish. No. 1,150,940; Aug. 24; Gaz. vol. 217; p. 1093.
- Atomizer, Liquid. E. H. Peabody. No. 1,150,960; Aug. 24; Gaz. vol. 217; p. 1100.
- Atomizer, Lubricant. G. Friskey. No. 1,153,642; Sept. 14; Gaz. vol. 218; p. 491.
- Atomizer, Lubricant. W. P. Staley. No. 1,128,381; Feb. 16; Gaz. vol. 211; p. 689.
- Atomizer, Mechanical. A. H. Best. No. 1,146,394; July 13; Gaz. vol. 216; p. 517.
- Atomizer or the like. A. De Vilbiss. No. 1,140,301; May 18; Gaz. vol. 214; p. 980.
- Atomizer, Pocket. S. W. Burke. No. 1,148,749; Aug. 3; Gaz. vol. 217; p. 96.
- Attachment-plug. E. Jones. No. 1,141,686; June 1; Gaz. vol. 215; p. 213.
- Attrition-mill. J. S. Sorensen. No. 1,146,032; July 13; Gaz. vol. 216; p. 390.
- Attrition-mill. J. S. Sorensen. No. 1,146,034; July 13; Gaz. vol. 216; p. 391.
- Attrition-mill plate. E. P. Alsted. No. 1,144,089; June 22; Gaz. vol. 215; p. 1150.
- Attrition-mill, Single-head. J. S. Sorensen. No. 1,146,033; July 13; Gaz. vol. 216; p. 391.
- Audiometer. J. M. McCallie. No. 1,127,908; Feb. 9; Gaz. vol. 211; p. 478.
- Audion. A. M. Nicolson. No. 1,130,008; Mar. 2; Gaz. vol. 212; p. 59.
- Audion. A. M. Nicolson. No. 1,130,009; Mar. 2; Gaz. vol. 212; p. 59.
- Audion, High-current-output. H. J. Van der Bijl and A. M. Nicolson. No. 1,130,042; Mar. 2; Gaz. vol. 212; p. 70.
- Audiphone. N. R. Gordon. No. 1,130,812; Mar. 9; Gaz. vol. 212; p. 372.
- Audiphone. C. Soret. No. 1,154,069; Sept. 21; Gaz. vol. 218; p. 674.
- Audiphone-transmitter stand and sounding-board. C. E. Williams. No. 1,125,424; Jan. 19; Gaz. vol. 210; p. 864.
- Auger. J. Lund. No. 1,139,198; May 11; Gaz. vol. 214; p. 559.
- Auger. J. Tropek. No. 1,160,675; Nov. 16; Gaz. vol. 220; p. 885.
- Auger bit and brace. A. L. Jennings. No. 1,127,007; Feb. 2; Gaz. vol. 211; p. 121.
- Auger, Earth. J. O. Nelson. No. 1,152,337; Aug. 31; Gaz. vol. 217; p. 1618.
- Auger, Earth. B. B. Phillips and C. W. Evans. No. 1,140,607; May 25; Gaz. vol. 214; p. 1124.
- Auger, Post-hole. J. C. Lindsay. No. 1,141,568; June 1; Gaz. vol. 215; p. 172.
- Auger, Post-hole. B. G. W. P. and T. Watkins. No. 1,142,646; June 8; Gaz. vol. 215; p. 584.
- Authorizing method and system. J. J. Leidigh. No. 1,146,882; July 13; Gaz. vol. 216; p. 408.
- Auto attachment. H. Kepler. No. 1,151,474; Aug. 24; Gaz. vol. 217; p. 1271.
- Auto attachment. W. H. Skinner. No. 1,158,735; Nov. 2; Gaz. vol. 220; p. 113.
- Auto-fender. W. B. Cole. No. 1,123,848; Jan. 5; Gaz. vol. 210; p. 222.
- Auto hood-fastening device. N. W. Cummins. No. 1,148,290; July 27; Gaz. vol. 216; p. 1229.
- Auto-motor starter. A. Blair. No. 1,141,033; May 25; Gaz. vol. 214; p. 1271.
- Auto-spring. J. H. Livesay. No. 1,131,530; Mar. 9; Gaz. vol. 212; p. 619.
- Auto top-bow support. P. A. Schuler. No. 1,149,955; Aug. 10; Gaz. vol. 217; p. 629.
- Auto power-transmission jack. A. F. Johnson. No. 1,153,791; Sept. 14; Gaz. vol. 218; p. 543.
- Auto-wheel. F. W. Holtz. No. 1,125,324; Jan. 19; Gaz. vol. 210; p. 827.
- Autos, Non-skid mud-shoe for. J. W. Seibert and J. W. Riley. No. 1,131,560; Mar. 9; Gaz. vol. 212; p. 629.
- Autocar-spring. J. W. A. Elling. No. 1,130,157; Mar. 2; Gaz. vol. 212; p. 109.
- Autocycle. J. E. Pfeiffer. No. 1,132,380; Mar. 16; Gaz. vol. 212; p. 961.
- Autographic register. C. F. Crowder. No. 1,161,456; Nov. 23; Gaz. vol. 220; p. 1207.
- Autographic register. W. L. Deming. No. 1,131,917; Mar. 16; Gaz. vol. 212; p. 792.
- Autographic register. W. J. Hainer. No. 1,143,386; June 15; Gaz. vol. 215; p. 885.
- Autographic register. A. Krauth. No. 1,142,441; June 8; Gaz. vol. 215; p. 515.
- Autographic register. A. Krauth. No. 1,144,551; June 29; Gaz. vol. 215; p. 1339.
- Autographic register. A. Krauth. No. 1,154,032; Sept. 21; Gaz. vol. 218; p. 661.
- Autographic register. W. Ritschard. No. 1,146,520; July 13; Gaz. vol. 216; p. 563.
- Autographic register. T. F. Schirmer. No. 1,150,890; Aug. 24; Gaz. vol. 217; p. 1075.
- Autographic registers, Record-roll for. H. Konerman. No. 1,147,875; July 27; Gaz. vol. 216; p. 1081.
- Automatic brake. A. E. Norris. No. 1,123,786; Jan. 5; Gaz. vol. 210; p. 202.
- Automatic brake. P. J. Smola. No. 1,125,753; Jan. 19; Gaz. vol. 210; p. 981.
- Automatic coupling. S. G. Johnston. No. 1,134,864; Apr. 6; Gaz. vol. 213; p. 280.
- Automatic fender and brake. W. M. Smith. No. 1,133,673; Mar. 30; Gaz. vol. 212; p. 1515.
- Automatic gate. W. H. Jay. No. 1,165,180; Dec. 21; Gaz. vol. 221; p. 941.
- Automatic gate. A. Williamson. No. 1,152,999; Sept. 7; Gaz. vol. 218; p. 227.
- Automatic lubricator. J. J. Hennessy. No. 1,142,705; June 8; Gaz. vol. 215; p. 603.
- Automatic lubricator. A. Mertsheimer. No. 1,139,697; May 18; Gaz. vol. 214; p. 769.
- Automatic lubricator. E. Ruegger. No. 1,152,847; Sept. 7; Gaz. vol. 218; p. 172.
- Automatic lubricator. C. C. Sills. No. 1,142,735; June 8; Gaz. vol. 215; p. 612.
- Automatic lubricator. S. F. Swoope. No. 1,128,198; Feb. 9; Gaz. vol. 211; p. 578.
- Automatic machine. W. G. Moffet. No. 1,162,301; Nov. 30; Gaz. vol. 220; p. 1546.
- Automatic regulator. W. A. Turbayne. No. 1,131,176; Mar. 9; Gaz. vol. 212; p. 496.
- Automatic roller. J. B. Drumm. No. 1,144,030; June 22; Gaz. vol. 215; p. 1130.
- Automatic sprinkler. W. B. Hammond. No. 1,162,692; Nov. 30; Gaz. vol. 220; p. 1676.
- Automatic sprinkler. C. P. Nutter. No. 1,137,016; Apr. 27; Gaz. vol. 213; p. 1159.
- Automatic sprinkler. G. Zint. No. 1,131,767; Mar. 16; Gaz. vol. 212; p. 737.
- Automatic sprinkler. G. Zint. No. 1,146,228; July 13; Gaz. vol. 216; p. 459.
- Automatic switch. H. Grob. No. 1,163,996; Dec. 14; Gaz. vol. 221; p. 487.

Alphabetical list of inventions—Continued.

- Automatic switch. H. H. Palmer. No. 1,129,717; Feb. 23; Gaz. vol. 211; p. 1189.
- Automatic switch. J. L. Woodbridge. No. 1,125,242; Jan. 19; Gaz. vol. 210; p. 798.
- Automatic take-up reel. G. W. Lorimer. No. 1,131,069; Mar. 9; Gaz. vol. 212; p. 461.
- Automatic trip. E. R. Hawley. No. 1,149,915; Aug. 10; Gaz. vol. 217; p. 615.
- Automatic ventilator and heat-regulator. B. W. Davis. No. 1,146,751; July 13; Gaz. vol. 216; p. 641.
- Automatically-locking lock. A. Leistler. No. 1,142,591; June 8; Gaz. vol. 215; p. 566.
- Automobile. E. B. Bliss. No. 1,131,034; Mar. 9; Gaz. vol. 212; p. 449.
- Automobile. J. E. Carroll. No. 1,136,864; Apr. 20; Gaz. vol. 213; p. 1067.
- Automobile. R. G. Du Bois and W. L. Mead. No. 1,123,996; Jan. 5; Gaz. vol. 210; p. 270.
- Automobile. E. Gruenewald. No. 1,139,861; May 18; Gaz. vol. 214; p. 826.
- Automobile. F. Hemenway. No. 1,139,763; May 18; Gaz. vol. 214; p. 791.
- Automobile. H. B. Layman. No. 1,142,337; June 8; Gaz. vol. 215; p. 476.
- Automobile. C. J. Pembroke. No. 1,143,777; June 22; Gaz. vol. 215; p. 1041.
- Automobile. J. F. Sloan. No. 1,127,533; Feb. 9; Gaz. vol. 211; p. 344.
- Automobile. V. A. Strom. No. 1,131,289; Mar. 9; Gaz. vol. 212; p. 536.
- Automobile. C. H. Taylor and B. B. Neuteboom. No. 1,138,904; May 11; Gaz. vol. 214; p. 454.
- Automobile. W. Webber. No. 1,133,345; Mar. 30; Gaz. vol. 212; p. 1396.
- Automobile. W. Weyden. No. 1,166,288; Dec. 28; Gaz. vol. 221; p. 1371.
- Automobile accelerating device. W. G. Deible. No. 1,132,457; Mar. 16; Gaz. vol. 212; p. 989.
- Automobile accessory. P. F. Haberstick. No. 1,144,540; June 29; Gaz. vol. 215; p. 1335.
- Automobile-alarm. R. C. Groh. No. 1,151,264; Aug. 24; Gaz. vol. 217; p. 1203.
- Automobile-ambulance. I. A. Weaver. No. 1,125,227; Jan. 19; Gaz. vol. 210; p. 793.
- Automobile and other vehicle fender. A. M. Kennedy. No. 1,140,164; May 18; Gaz. vol. 214; p. 934.
- Automobile armored hood. J. Chiske. No. 1,147,607; July 20; Gaz. vol. 216; p. 961.
- Automobile attachment. C. E. Clapp. No. 1,164,925; Dec. 21; Gaz. vol. 221; p. 851.
- Automobile attachment. F. R. Nyberg. No. 1,134,759; Apr. 6; Gaz. vol. 213; p. 247.
- Automobile automatic control. J. J. Curry. No. 1,156,760; Oct. 12; Gaz. vol. 219; p. 525.
- Automobile. Auxiliary actuating device for the brake mechanism of an. E. A. Dieterich. No. 1,131,484; Mar. 9; Gaz. vol. 212; p. 604.
- Automobile. Auxiliary actuating device for the brake mechanism of an. E. A. Dieterich. No. 1,131,485; Mar. 9; Gaz. vol. 212; p. 604.
- Automobile axle attachment. N. W. Pearson. No. 1,144,562; June 29; Gaz. vol. 215; p. 1342.
- Automobile baggage-carrier. J. B. Marquis. No. 1,156,539; Oct. 12; Gaz. vol. 219; p. 447.
- Automobile baggage-carrier. J. B. Marquis. No. 1,156,540; Oct. 12; Gaz. vol. 219; p. 448.
- Automobile-bed. T. F. Schaick. No. 1,156,631; Oct. 12; Gaz. vol. 219; p. 480.
- Automobile bed-support. C. K. McMillin. No. 1,136,885; Apr. 20; Gaz. vol. 213; p. 1075.
- Automobile-bodies. Disappearing top for. C. L. Anderson. No. 1,156,738; Oct. 12; Gaz. vol. 219; p. 518.
- Automobile-bodies into lounges. Foldable seat for converting two-seated. J. E. Wright. No. 1,140,931; May 25; Gaz. vol. 214; p. 1238.
- Automobile-bodies. Metallic door for. J. Ledwinka. No. 1,127,904; Feb. 9; Gaz. vol. 211; p. 477.
- Automobile-bodies. Sliding door for. H. Olafson. No. 1,143,062; June 15; Gaz. vol. 215; p. 769.
- Automobile-body. J. D. Berryman. No. 1,136,643; Apr. 20; Gaz. vol. 213; p. 989.
- Automobile-body. L. C. Duncan. No. 1,139,021; May 11; Gaz. vol. 214; p. 497.
- Automobile-body. J. B. Entz. No. 1,140,139; May 18; Gaz. vol. 214; p. 926.
- Automobile-body. J. Ledwinka. No. 1,143,635; June 22; Gaz. vol. 215; p. 993.
- Automobile-body. E. C. Manning. No. 1,162,940; Dec. 7; Gaz. vol. 221; p. 71.
- Automobile-body. J. E. Manzel and J. A. Lyons. No. 1,155,941; Oct. 5; Gaz. vol. 219; p. 213.
- Automobile-body. P. J. Murphy. No. 1,150,954; Aug. 24; Gaz. vol. 217; p. 1098.
- Automobile-body. J. T. Trumble. No. 1,124,676; Jan. 12; Gaz. vol. 210; p. 562.
- Automobile-body. Convertible. C. D. Williams. No. 1,151,314; Aug. 24; Gaz. vol. 217; p. 1219.
- Automobile brake-shoe. C. S. Shumaker. No. 1,136,446; Apr. 20; Gaz. vol. 213; p. 920.
- Automobile-buffer. A. M. Sonnichsen. No. 1,135,066; Apr. 13; Gaz. vol. 213; p. 395.
- Automobile-buffers. Adjusting means for. A. L. McGregor. No. 1,158,947; Nov. 2; Gaz. vol. 220; p. 188.
- Automobile-bumper. F. Lederer. No. 1,153,632; Sept. 14; Gaz. vol. 218; p. 487.
- Automobile bumper and fender. Combined. S. Glasgow. No. 1,140,899; May 25; Gaz. vol. 214; p. 1226.
- Automobile-chains, &c. Fastener for. J. Faus, Jr. No. 1,127,423; Feb. 9; Gaz. vol. 211; p. 305.
- Automobile-chains, &c. Safety-fastener for. J. Faus, Jr. No. 1,136,786; Apr. 20; Gaz. vol. 213; p. 1040.
- Automobile-chassis. E. F. Altman. No. 1,124,578; Jan. 12; Gaz. vol. 210; p. 526.
- Automobile chemical engine. J. A. Thomas. No. 1,137,927; May 4; Gaz. vol. 214; p. 71.
- Automobile. Child's. W. G. Jahnke. No. 1,146,880; July 20; Gaz. vol. 216; p. 706.
- Automobile-clamp. W. B. Christopher. No. 1,145,293; July 6; Gaz. vol. 216; p. 110.
- Automobile combination-hood. D. M. Livingston. No. 1,156,017; Oct. 5; Gaz. vol. 219; p. 240.
- Automobile construction. R. C. Bartlett. No. 1,124,687; Jan. 12; Gaz. vol. 210; p. 566.
- Automobile construction. A. P. Brush. No. 1,165,067; Dec. 21; Gaz. vol. 221; p. 900.
- Automobile construction. E. A. Deeds. No. 1,152,712; Sept. 7; Gaz. vol. 218; p. 122.
- Automobile construction. J. C. Jackson. No. 1,126,476; Jan. 26; Gaz. vol. 210; p. 1271.
- Automobile control device. J. A. Staples. No. 1,135,550; Apr. 13; Gaz. vol. 213; p. 562.
- Automobile control mechanism. Fluid-pressure. N. Taylor. No. 1,141,589; June 1; Gaz. vol. 215; p. 179.
- Automobile controlling device. V. Lancia. No. 1,138,577; May 4; Gaz. vol. 214; p. 297.
- Automobile-cover. W. L. McIntyre. No. 1,157,115; Oct. 19; Gaz. vol. 219; p. 680.
- Automobile-cover. J. W. O'Donnell. No. 1,164,853; Dec. 21; Gaz. vol. 221; p. 827.
- Automobile-curtain. H. J. Tiffany and G. A. Young. No. 1,140,858; May 25; Gaz. vol. 214; p. 1211.
- Automobile-curtain and mounting. G. F. Sears, J. H. Prose, and R. T. Anderson. No. 1,134,641; Apr. 6; Gaz. vol. 213; p. 204.
- Automobile direction-indicator. Z. Keough. No. 1,147,950; July 27; Gaz. vol. 216; p. 1108.
- Automobile direction-signal. S. Duda. No. 1,151,168; Aug. 24; Gaz. vol. 217; p. 1170.
- Automobile direction-signal. J. Zsakai. No. 1,145,537; July 6; Gaz. vol. 216; p. 196.
- Automobile direction signal or indicator. Z. Keough. No. 1,154,024; Sept. 21; Gaz. vol. 218; p. 658.
- Automobile-door. M. A. Buch. No. 1,158,438; Nov. 2; Gaz. vol. 220; p. 9.
- Automobile door-bumper. L. W. Wegenka. No. 1,127,329; Feb. 2; Gaz. vol. 211; p. 232.
- Automobile door mechanism. Y. Kariva. No. 1,138,117; May 4; Gaz. vol. 214; p. 140.
- Automobile door opening and closing device. C. Adams. No. 1,150,090; Aug. 17; Gaz. vol. 217; p. 738.
- Automobile door-opening mechanism. T. A. J. Porter. No. 1,147,642; July 20; Gaz. vol. 216; p. 974.
- Automobile door-operating mechanism. W. G. Sodd. No. 1,157,128; Oct. 19; Gaz. vol. 219; p. 685.
- Automobile-doors. Antirattler for. C. T. Schroyer. No. 1,151,723; Aug. 31; Gaz. vol. 217; p. 1404.
- Automobile-doors. Apparatus for opening and closing. W. F. Seel. No. 1,123,405; Jan. 5; Gaz. vol. 210; p. 71.
- Automobile draft attachment. K. C. Thomson. No. 1,162,822; Dec. 7; Gaz. vol. 221; p. 32.
- Automobile driving-gear. G. Pamer. No. 1,164,206; Dec. 14; Gaz. vol. 221; p. 558.
- Automobile driving mechanism. H. O. Lee. No. 1,150,212; Aug. 17; Gaz. vol. 217; p. 782.
- Automobile driving mechanism. J. J. Walk. No. 1,128,922; Feb. 16; Gaz. vol. 211; p. 879.
- Automobile emergency stop and jack. M. Koppelman. No. 1,136,145; Apr. 20; Gaz. vol. 213; p. 812.
- Automobile engine-starter. Combination. O. P. Kne. No. 1,149,838; Aug. 10; Gaz. vol. 217; p. 587.
- Automobile-engines. Fuel-elevating device for. W. Jay. No. 1,132,940; Mar. 23; Gaz. vol. 212; p. 1215.
- Automobile-engines. Liquid-elevating device for. W. Jay. No. 1,132,941; Mar. 23; Gaz. vol. 212; p. 1215.
- Automobile-fender. J. K. Bond. No. 1,136,998; Apr. 27; Gaz. vol. 213; p. 1152.
- Automobile-fender. J. K. Bond. No. 1,160,247; Nov. 16; Gaz. vol. 220; p. 731.
- Automobile-fender. E. V. Hartman. No. 1,164,513; Dec. 14; Gaz. vol. 221; p. 668.
- Automobile-fender. J. Heidi. No. 1,146,621; July 13; Gaz. vol. 216; p. 598.
- Automobile-fender. W. F. Jackson. No. 1,144,708; June 29; Gaz. vol. 215; p. 1393.
- Automobile-fender. J. M. Kissel. No. 1,155,933; Oct. 5; Gaz. vol. 219; p. 211.
- Automobile-fender. G. Kwiatkowski. No. 1,131,716; Mar. 16; Gaz. vol. 212; p. 718.
- Automobile-fender. H. Nelson. No. 1,163,441; Dec. 7; Gaz. vol. 221; p. 248.
- Automobile-fender. C. E. Ness. No. 1,146,091; July 13; Gaz. vol. 216; p. 411.

Alphabetical list of inventions—Continued.

- Automobile-fender. W. F. Perez. No. 1,157,251; Oct. 19; Gaz. vol. 219; p. 730.
- Automobile-fender. E. E. Pokorny. No. 1,132,117; Mar. 16; Gaz. vol. 212; p. 864.
- Automobile-fender. F. G. Pothier. No. 1,142,456; June 8; Gaz. vol. 215; p. 520.
- Automobile-fender. N. C. Schaffer. No. 1,137,170; Apr. 27; Gaz. vol. 213; p. 1215.
- Automobile-fender. C. A. Sheldon. No. 1,129,239; Feb. 23; Gaz. vol. 211; p. 1026.
- Automobile-fender. A. Simandi. No. 1,126,106; Jan. 26; Gaz. vol. 210; p. 1140.
- Automobile-fender. A. D. Steven. No. 1,127,308; Feb. 2; Gaz. vol. 211; p. 225.
- Automobile-fender. R. Throckmorton. No. 1,157,460; Oct. 19; Gaz. vol. 219; p. 803.
- Automobile-fender. A. Urbach. No. 1,124,978; Jan. 12; Gaz. vol. 210; p. 668.
- Automobile-fender. J. F. Walker. No. 1,123,961; Jan. 5; Gaz. vol. 210; p. 259.
- Automobile-fender. C. K. White. No. 1,139,830; May 18; Gaz. vol. 214; p. 816.
- Automobile-fender. C. J. Wunderlich. No. 1,160,029; Nov. 9; Gaz. vol. 220; p. 601.
- Automobile front wheel. H. B. Layman. No. 1,142,335; June 8; Gaz. vol. 215; p. 475.
- Automobile fuel-tank. C. T. Boyer. No. 1,150,332; Aug. 17; Gaz. vol. 217; p. 824.
- Automobile fuel-tank. A. Orton. No. 1,139,439; May 11; Gaz. vol. 214; p. 642.
- Automobile gear-shift. M. S. Curtis. No. 1,131,042; Mar. 9; Gaz. vol. 212; p. 451.
- Automobile guide-signal. E. A. Walz, Jr. No. 1,154,461; Sept. 21; Gaz. vol. 218; p. 808.
- Automobile hand-wheel. H. C. Cleve. No. 1,142,307; June 8; Gaz. vol. 215; p. 465.
- Automobile handle attachment. E. G. Rathmann. No. 1,135,615; Apr. 13; Gaz. vol. 213; p. 586.
- Automobile heat-guard. J. B. Harnsberger and C. H. Trout. No. 1,149,047; Aug. 3; Gaz. vol. 217; p. 199.
- Automobile-heater. C. R. Faruolo. No. 1,124,403; Jan. 12; Gaz. vol. 210; p. 462.
- Automobile-heater. W. Hesch. No. 1,127,621; Feb. 9; Gaz. vol. 211; p. 373.
- Automobile-heaters. Controlling mechanism for. L. A. Brigel. No. 1,159,566; Nov. 9; Gaz. vol. 220; p. 436.
- Automobile heating apparatus. W. J. Roots. No. 1,162,105; Nov. 30; Gaz. vol. 220; p. 1479.
- Automobile heating device. E. Ruttle. No. 1,132,391; Mar. 16; Gaz. vol. 212; p. 965.
- Automobile heating system. W. R. Bross. No. 1,126,378; Jan. 26; Gaz. vol. 210; p. 1237.
- Automobile, Hobby-horse. F. Loder. No. 1,159,594; Nov. 9; Gaz. vol. 220; p. 446.
- Automobile-hood. J. E. Duryea. No. 1,130,262; Mar. 2; Gaz. vol. 212; p. 145.
- Automobile-hood. H. Futterman. No. 1,155,321; Sept. 28; Gaz. vol. 218; p. 1128.
- Automobile hood-catch. T. J. Kehoe. No. 1,157,004; Oct. 19; Gaz. vol. 219; p. 641.
- Automobile hood-fastener. E. L. Ackerman and C. P. Chamberlin. No. 1,151,986; Aug. 31; Gaz. vol. 217; p. 1496.
- Automobile hood-fastener. W. A. Schleicher. No. 1,159,870; Nov. 9; Gaz. vol. 220; p. 547.
- Automobile-hood, Heat-retaining. C. L. Hobbs. No. 1,162,777; Dec. 7; Gaz. vol. 221; p. 16.
- Automobile identification device. L. A. Ward and W. D. Chase. No. 1,153,278; Sept. 14; Gaz. vol. 218; p. 360.
- Automobile ignition system, Ford. H. B. Snell. No. 1,164,317; Dec. 14; Gaz. vol. 221; p. 598.
- Automobile-indicator. W. H. Spencer. No. 1,163,788; Dec. 14; Gaz. vol. 221; p. 415.
- Automobile indicator and signal. J. B. Healey and H. E. McKinley. No. 1,164,514; Dec. 14; Gaz. vol. 221; p. 668.
- Automobile-jack. A. S. Albright. No. 1,131,891; Mar. 16; Gaz. vol. 212; p. 782.
- Automobile-jack. A. S. Albright. No. 1,142,655; June 8; Gaz. vol. 215; p. 587.
- Automobile-jack. W. R. Bross. No. 1,130,472; Mar. 2; Gaz. vol. 212; p. 222.
- Automobile-jack. J. F. Carlock, Jr. No. 1,149,114; Aug. 3; Gaz. vol. 217; p. 220.
- Automobile-jack. J. Davis. No. 1,165,762; Dec. 28; Gaz. vol. 221; p. 1184.
- Automobile-jack. H. C. Edwards and J. T. Megredy. No. 1,137,003; Apr. 27; Gaz. vol. 213; p. 1155.
- Automobile-jack. E. H. Frank. No. 1,147,714; July 27; Gaz. vol. 216; p. 1025.
- Automobile-jack. I. W. Furman. No. 1,140,149; May 18; Gaz. vol. 214; p. 929.
- Automobile-jack. C. A. Hart. No. 1,136,007; Apr. 20; Gaz. vol. 213; p. 763.
- Automobile-jack. J. J. Kelleher. No. 1,129,494; Feb. 23; Gaz. vol. 211; p. 1116.
- Automobile-jack. A. B. McCullough. No. 1,145,693; July 6; Gaz. vol. 216; p. 251.
- Automobile-jack. J. L. McMann. No. 1,151,960; Aug. 31; Gaz. vol. 217; p. 1487.
- Automobile-jack. A. Peteler. No. 1,158,272; Oct. 26; Gaz. vol. 219; p. 1148.
- Automobile-jack. C. R. Spalding. No. 1,137,362; Apr. 27; Gaz. vol. 213; p. 1286.
- Automobile-jack. H. A. Timm. No. 1,156,945; Oct. 19; Gaz. vol. 219; p. 619.
- Automobile-jack. C. C. Williams. No. 1,137,684; Apr. 27; Gaz. vol. 213; p. 1394.
- Automobile-jack and tire-pump. Combined. S. McNabb. No. 1,147,110; July 20; Gaz. vol. 216; p. 787.
- Automobile-jack, Automatic. S. D. Smith. No. 1,140,624; May 25; Gaz. vol. 214; p. 1130.
- Automobile lamp-signal apparatus. J. T. Wright. No. 1,124,681; Jan. 12; Gaz. vol. 210; p. 564.
- Automobile lever-lock. W. J. Miles. No. 1,166,143; Dec. 28; Gaz. vol. 221; p. 1318.
- Automobile lifting-jack. V. Koftan. No. 1,134,140; Apr. 6; Gaz. vol. 213; p. 21.
- Automobile light-signal. J. Shanley and N. Gordon. No. 1,129,740; Feb. 23; Gaz. vol. 211; p. 1198.
- Automobile liquid-fuel-tank register. C. F. Brown. No. 1,134,585; Apr. 6; Gaz. vol. 213; p. 183.
- Automobile-lock. P. Cyr. No. 1,162,224; Nov. 30; Gaz. vol. 220; p. 1519.
- Automobile-lock. C. E. C. Edey. No. 1,155,902; Oct. 5; Gaz. vol. 219; p. 201.
- Automobile-lock. C. T. and E. W. Harding. No. 1,165,776; Dec. 28; Gaz. vol. 221; p. 1188.
- Automobile-lock. W. A. Johnson. No. 1,151,363; Aug. 24; Gaz. vol. 217; p. 1234.
- Automobile-lock. W. D. Jones and J. G. Grimley. No. 1,159,041; Nov. 2; Gaz. vol. 220; p. 218.
- Automobile-lock. T. J. Kehoe. No. 1,126,781; Feb. 2; Gaz. vol. 211; p. 42.
- Automobile-lock. G. L. Lotz and J. W. Kremer. No. 1,147,634; July 20; Gaz. vol. 216; p. 971.
- Automobile-lock. J. P. Maurer. No. 1,152,117; Aug. 31; Gaz. vol. 217; p. 1542.
- Automobile-lock. I. McNeece. No. 1,134,054; Mar. 30; Gaz. vol. 212; p. 1644.
- Automobile-lock. R. C. Moore and R. E. Braden. No. 1,145,206; July 6; Gaz. vol. 216; p. 80.
- Automobile-lock. J. A. Murphey and F. S. Thompson. No. 1,156,615; Oct. 12; Gaz. vol. 219; p. 474.
- Automobile-lock. R. P. Nichols. No. 1,126,262; Jan. 26; Gaz. vol. 210; p. 1197.
- Automobile-lock. J. F. O'Brien. No. 1,133,393; Mar. 30; Gaz. vol. 212; p. 1413.
- Automobile-lock. T. L. Park. No. 1,136,358; Apr. 20; Gaz. vol. 213; p. 888.
- Automobile-lock. W. H. Rodgers. No. 1,127,519; Feb. 9; Gaz. vol. 211; p. 340.
- Automobile-lock. J. T. Rogers. No. 1,164,399; Dec. 14; Gaz. vol. 221; p. 628.
- Automobile-lock. C. R. Saunders. No. 1,138,796; May 11; Gaz. vol. 214; p. 416.
- Automobile-lock. P. W. Smith. No. 1,139,733; May 18; Gaz. vol. 214; p. 781.
- Automobile-lock. W. A. Smith. No. 1,151,056; Aug. 24; Gaz. vol. 217; p. 1132.
- Automobile-lock. B. Watts. No. 1,141,223; June 1; Gaz. vol. 215; p. 47.
- Automobile-lock, Combination. R. E. Coyner. No. 1,137,742; May 4; Gaz. vol. 214; p. 8.
- Automobile lock-switch. C. G. Terfer. No. 1,152,062; Aug. 31; Gaz. vol. 217; p. 1523.
- Automobile locking device. A. H. Leeker. No. 1,140,383; May 25; Gaz. vol. 214; p. 1044.
- Automobile locking device. W. L. McCray. No. 1,131,720; Mar. 16; Gaz. vol. 212; p. 720.
- Automobile, &c., mud-guard. N. Marion. No. 1,147,256; July 20; Gaz. vol. 216; p. 838.
- Automobile mud-rim, Automatic. H. Bremer. No. 1,145,667; July 6; Gaz. vol. 216; p. 242.
- Automobile number-light. S. J. Lessing. No. 1,145,692; July 6; Gaz. vol. 216; p. 251.
- Automobile or train lighting system. C. E. Willey. No. 1,143,008; June 15; Gaz. vol. 215; p. 750.
- Automobile pivot-light. H. A. Sisson. No. 1,134,644; Apr. 6; Gaz. vol. 213; p. 205.
- Automobile power attachment. E. G. Kohout. No. 1,148,174; July 27; Gaz. vol. 216; p. 1190.
- Automobile power-transmitting apparatus. C. D. Wright. No. 1,143,157; June 15; Gaz. vol. 215; p. 802.
- Automobile-puller. J. J. Fisher. No. 1,147,495; July 20; Gaz. vol. 216; p. 922.
- Automobile-puller. R. Irwin. No. 1,124,451; Jan. 12; Gaz. vol. 210; p. 480.
- Automobile-radiator. M. Kaman. No. 1,149,772; Aug. 10; Gaz. vol. 217; p. 563.
- Automobile-radiator. N. T. E. Skinner. No. 1,140,196; May 18; Gaz. vol. 214; p. 945.
- Automobile-radiators, Heater for. L. N. Hartog. No. 1,150,268; Aug. 17; Gaz. vol. 217; p. 803.
- Automobile rear wheel and axle construction. H. B. Layman. No. 1,142,336; June 8; Gaz. vol. 215; p. 476.
- Automobile runner attachment. F. L. Ramsdell. No. 1,154,431; Sept. 21; Gaz. vol. 218; p. 793.
- Automobile running-board seat. W. F. Huschle, Jr. No. 1,158,223; Oct. 26; Gaz. vol. 219; p. 1131.
- Automobile running-gear. D. C. Cookingham and J. H. Hertner. No. 1,138,732; May 11; Gaz. vol. 214; p. 393.
- Automobile safety-brace. E. J. Weaver. No. 1,149,006; Aug. 3; Gaz. vol. 217; p. 185.

Alphabetical list of inventions—Continued.

- Automobile safety-brake. G. W. Yanney and E. F. Oyster. No. 1,144,877; June 29; Gaz. vol. 215; p. 1452.
- Automobile safety cranking device. C. E. Rahm. No. 1,162,648; Nov. 30; Gaz. vol. 220; p. 1681.
- Automobile safety device. S. Newburger. No. 1,137,519; Apr. 27; Gaz. vol. 213; p. 1340.
- Automobile safety device. E. C. Shilling. No. 1,146,355; July 13; Gaz. vol. 216; p. 502.
- Automobile safety device. M. J. White. No. 1,146,828; July 20; Gaz. vol. 216; p. 688.
- Automobile safety-lock. C. E. P. Greiff and C. F. Schreiber. No. 1,124,013; Jan. 5; Gaz. vol. 210; p. 276.
- Automobile safety-lock. C. E. P. Greiff and C. F. Schreiber. No. 1,124,014; Jan. 5; Gaz. vol. 210; p. 277.
- Automobile-seat. F. G. Parker. No. 1,148,347; July 13; Gaz. vol. 216; p. 499.
- Automobile-seat. J. A. Stemple. No. 1,160,781; Nov. 16; Gaz. vol. 220; p. 921.
- Automobile-seat. G. S. Sturges. No. 1,151,910; Aug. 31; Gaz. vol. 217; p. 1471.
- Automobile self-starter. A. A. P. Neel. No. 1,126,556; Jan. 26; Gaz. vol. 210; p. 1303.
- Automobile shifting-jack. C. W. Osh. No. 1,148,854; Aug. 3; Gaz. vol. 217; p. 132.
- Automobile side curtain. P. C. Bean and H. S. Collinson. No. 1,145,965; July 13; Gaz. vol. 216; p. 366.
- Automobile-signal. G. Burgess. No. 1,134,104; Apr. 6; Gaz. vol. 213; p. 8.
- Automobile-signal. W. M. Cummer. No. 1,136,895; Apr. 20; Gaz. vol. 213; p. 1079.
- Automobile-signal. E. D. Finch. No. 1,164,800; Dec. 21; Gaz. vol. 221; p. 808.
- Automobile-signal. J. F. Kastelberg, Jr. No. 1,160,719; Nov. 16; Gaz. vol. 220; p. 900.
- Automobile-signal. T. Klemp. No. 1,155,934; Oct. 5; Gaz. vol. 219; p. 211.
- Automobile-signal. J. G. Marsh. No. 1,149,531; Aug. 10; Gaz. vol. 217; p. 474.
- Automobile-signal. G. F. A. McDougall. No. 1,157,561; Oct. 19; Gaz. vol. 219; p. 836.
- Automobile-signal. F. McGregory. No. 1,126,807; Feb. 2; Gaz. vol. 211; p. 51.
- Automobile-signal. P. McLaren. No. 1,164,832; Dec. 21; Gaz. vol. 221; p. 820.
- Automobile-signal. J. Nicholson. No. 1,165,117; Dec. 21; Gaz. vol. 221; p. 919.
- Automobile-signal. J. C. Perry. No. 1,159,793; Nov. 9; Gaz. vol. 220; p. 519.
- Automobile-signal. F. Rauscher. No. 1,164,547; Dec. 14; Gaz. vol. 224; p. 679.
- Automobile-signal. H. A. Siegrist. No. 1,151,834; Aug. 31; Gaz. vol. 217; p. 1444.
- Automobile-signal. E. Soulé. No. 1,127,103; Feb. 2; Gaz. vol. 211; p. 155.
- Automobile-signal. A. R. Welch. No. 1,162,421; Nov. 30; Gaz. vol. 220; p. 1586.
- Automobile signal device. J. F. Anderson. No. 1,148,137; July 27; Gaz. vol. 216; p. 1177.
- Automobile-signal, Electric. F. A. Wright. No. 1,159,312; Nov. 2; Gaz. vol. 220; p. 315.
- Automobile signal-light. J. F. Miller and C. J. Locke. No. 1,146,588; July 13; Gaz. vol. 216; p. 587.
- Automobile signaling device. V. Wellinz. No. 1,164,045; Dec. 14; Gaz. vol. 221; p. 505.
- Automobile signaling device or horn. S. Scognamiglio. No. 1,151,552; Aug. 24; Gaz. vol. 217; p. 1300.
- Automobile sleigh-runner. C. E. Andersson. No. 1,124,384; Jan. 12; Gaz. vol. 210; p. 456.
- Automobile sliding door. J. M. Bower. No. 1,131,322; Mar. 9; Gaz. vol. 212; p. 548.
- Automobile-starter. H. W. Hamilton. No. 1,149,134; Aug. 3; Gaz. vol. 217; p. 227.
- Automobile-starter. F. N. Livingston. No. 1,154,520; Sept. 21; Gaz. vol. 218; p. 828.
- Automobile-starter. C. A. Smith. No. 1,128,911; Feb. 16; Gaz. vol. 211; p. 875.
- Automobile starting device. C. W. Brewer. No. 1,130,059; Mar. 2; Gaz. vol. 212; p. 76.
- Automobile starting device. E. P. De Berry. No. 1,150,421; Aug. 17; Gaz. vol. 217; p. 854.
- Automobile starting device. C. B. Mills. No. 1,164,006; Dec. 14; Gaz. vol. 221; p. 490.
- Automobile starting device. W. Shannon. No. 1,123,940; Jan. 5; Gaz. vol. 210; p. 252.
- Automobile starting mechanism. J. H. Shaull. No. 1,132,802; Mar. 23; Gaz. vol. 212; p. 1165.
- Automobile steering and controlling system. A. W. Pattison. No. 1,154,653; Sept. 28; Gaz. vol. 218; p. 904.
- Automobile steering-column. W. A. Frazer. No. 1,145,761; July 6; Gaz. vol. 216; p. 275.
- Automobile steering device. D. H. Buckley. No. 1,139,453; May 11; Gaz. vol. 214; p. 646.
- Automobile steering device. N. S. Matson. No. 1,152,194; Aug. 31; Gaz. vol. 217; p. 1568.
- Automobile steering-gear. W. W. Annable. No. 1,158,360; Oct. 26; Gaz. vol. 219; p. 1179.
- Automobile steering-gear. W. A. Dittman. No. 1,162,988; Dec. 7; Gaz. vol. 221; p. 88.
- Automobile steering-gear. W. J. Moore and F. M. Thayer. No. 1,144,307; June 22; Gaz. vol. 215; p. 1228.
- Automobile steering-gear. J. W. Sanborn. No. 1,152,227; Aug. 31; Gaz. vol. 217; p. 1580.
- Automobile steering-gear. M. A. and E. F. Selsel. No. 1,148,864; Aug. 3; Gaz. vol. 217; p. 135.
- Automobile steering-gear wheels, Heating system for. L. A. Hanson and G. W. Hall. No. 1,145,308; July 6; Gaz. vol. 216; p. 115.
- Automobile steering-gears, Spring attachment for. C. A. Peterson. No. 1,164,013; Dec. 14; Gaz. vol. 221; p. 493.
- Automobile steering mechanism. C. Lagergren. No. 1,143,410; June 15; Gaz. vol. 215; p. 893.
- Automobile steering mechanism. V. Lancia. No. 1,148,239; July 27; Gaz. vol. 216; p. 1211.
- Automobile steering mechanism. J. P. Law. No. 1,157,628; Oct. 19; Gaz. vol. 219; p. 857.
- Automobile steering-wheel. A. G. Neville. No. 1,128,713; Feb. 16; Gaz. vol. 211; p. 804.
- Automobile steering-wheel brake. J. C. Flickinger. No. 1,159,340; Nov. 2; Gaz. vol. 220; p. 323.
- Automobile steering-wheel construction. J. F. Duryea. No. 1,130,263; Mar. 2; Gaz. vol. 212; p. 146.
- Automobile steering-wheel, Heated. R. M. Shultz. No. 1,156,637; Oct. 12; Gaz. vol. 219; p. 483.
- Automobile steering-wheels, Arrangement for controlling. J. J. Heilmann. No. 1,144,706; June 29; Gaz. vol. 215; p. 1392.
- Automobile supplemental spring. H. Carmichael. No. 1,125,264; Jan. 19; Gaz. vol. 210; p. 807.
- Automobile supporting-framing. R. M. Morgan. No. 1,146,343; July 13; Gaz. vol. 216; p. 498.
- Automobile supporting-stand. W. P. Deason and J. E. Jordan. No. 1,144,110; June 22; Gaz. vol. 215; p. 1159.
- Automobile tail-light. J. J. Lindsey. No. 1,129,695; Feb. 23; Gaz. vol. 211; p. 1182.
- Automobile theft-indicator. J. A. Steinmetz. No. 1,142,639; June 8; Gaz. vol. 215; p. 582.
- Automobile throttle control. W. E. Morgan. No. 1,151,031; Aug. 24; Gaz. vol. 217; p. 1124.
- Automobile tool-bag. F. Fourt. No. 1,153,377; Sept. 14; Gaz. vol. 218; p. 397.
- Automobile tool-box. E. Whitney and M. C. Grimm. No. 1,162,006; Nov. 30; Gaz. vol. 220; p. 1443.
- Automobile-top. W. J. Moore and R. Manson. No. 1,151,033; Aug. 24; Gaz. vol. 217; p. 1124.
- Automobile-top. J. M. Workman. No. 1,123,458; Jan. 5; Gaz. vol. 210; p. 89.
- Automobile top attachment. F. A. Temm. No. 1,130,348; Mar. 2; Gaz. vol. 212; p. 176.
- Automobile-top, Collapsible. C. D. Williams. No. 1,151,315; Aug. 24; Gaz. vol. 217; p. 1239.
- Automobile top-cover. J. A. Jones. No. 1,142,329; June 8; Gaz. vol. 215; p. 473.
- Automobile top-lifter. L. Johnson. No. 1,135,976; Apr. 13; Gaz. vol. 213; p. 713.
- Automobile top-lifter. R. Menhennet. No. 1,166,235; Dec. 28; Gaz. vol. 221; p. 1352.
- Automobile top-operating mechanism. S. F. Dupree, Jr., G. Ritter, and A. Heckman. No. 1,143,260; June 15; Gaz. vol. 215; p. 839.
- Automobile-tops, Form for front and rear of. A. H. Stokes. No. 1,144,874; June 29; Gaz. vol. 215; p. 1451.
- Automobile towing device. D. V. Elchin and E. F. and A. H. Zimmerly. No. 1,123,262; Jan. 5; Gaz. vol. 210; p. 20.
- Automobile traction device. A. Monsen. No. 1,147,035; July 20; Gaz. vol. 216; p. 761.
- Automobile traction device. P. N. Pottsgrove. No. 1,142,727; June 8; Gaz. vol. 215; p. 609.
- Automobile traffic-signal. W. Drabold and A. P. Mott. No. 1,164,581; Dec. 14; Gaz. vol. 221; p. 689.
- Automobile traffic-signal. C. M. Keenan. No. 1,151,953; Aug. 31; Gaz. vol. 217; p. 1483.
- Automobile-trailer-coupling. J. A. Scharf. No. 1,157,590; Oct. 19; Gaz. vol. 219; p. 845.
- Automobile transmission. W. A. Henderson. No. 1,136,526; Apr. 20; Gaz. vol. 213; p. 949.
- Automobile transmission-gearing. C. A. Sandstrom. No. 1,124,533; Jan. 12; Gaz. vol. 210; p. 509.
- Automobile transmission mechanism. R. E. Carswell. No. 1,143,037; June 15; Gaz. vol. 215; p. 760.
- Automobile transmission mechanism. F. C. De Vallant and R. Weaver. No. 1,147,488; July 20; Gaz. vol. 216; p. 920.
- Automobile transmission mechanism. A. A. P. Neel. No. 1,123,915; Jan. 5; Gaz. vol. 210; p. 245.
- Automobile transmission power. E. J. Wendle. No. 1,152,771; Sept. 7; Gaz. vol. 218; p. 143.
- Automobile-washer. H. M. Jennings. No. 1,142,966; June 15; Gaz. vol. 215; p. 735.
- Automobile-wheel. J. Anderson. No. 1,141,516; June 1; Gaz. vol. 215; p. 153.
- Automobile-wheel. J. C. Awalt and T. F. Stevens. No. 1,140,560; May 25; Gaz. vol. 214; p. 1108.
- Automobile-wheel. S. C. Burson. No. 1,131,324; Mar. 9; Gaz. vol. 212; p. 549.
- Automobile-wheel. J. D. Casey. No. 1,127,960; Feb. 9; Gaz. vol. 211; p. 496.
- Automobile-wheel. A. C. Dunham. No. 1,150,018; Aug. 17; Gaz. vol. 217; p. 713.
- Automobile-wheel. W. S. Miller. No. 1,154,876; Sept. 28; Gaz. vol. 218; p. 977.
- Automobile-wheel. C. A. Watson. No. 1,128,924; Feb. 16; Gaz. vol. 211; p. 880.

Alphabetical list of inventions—Continued.

- Automobile wheel attachment. J. B. Bamford. No. 1,151,436; Aug. 24; Gaz. vol. 217; p. 1259.
- Automobile wheel construction. A. Vakula. No. 1,131,185; Mar. 9; Gaz. vol. 212; p. 500.
- Automobile wheel-holder. E. H. Crofoot. No. 1,131,477; Mar. 9; Gaz. vol. 212; p. 602.
- Automobile-wheel pulley attachment. T. M. Torson. No. 1,142,737; June 8; Gaz. vol. 215; p. 612.
- Automobile-wheel, Resilient. W. A. Dawson. No. 1,150,891; Mar. 9; Gaz. vol. 212; p. 400.
- Automobile-wheels and the like, Shipping-shoe for. A. S. McMillan and J. P. Curdie. No. 1,139,988; May 18; Gaz. vol. 214; p. 871.
- Automobile wind-shield. J. S. Kern. No. 1,163,413; Dec. 7; Gaz. vol. 221; p. 237.
- Automobile wind-shields, Clearing device for. F. N. Bunnell. No. 1,157,673; Oct. 26; Gaz. vol. 219; p. 939.
- Automobiles, Accelerator for. J. E. Bowman. No. 1,132,907; Mar. 23; Gaz. vol. 212; p. 1202.
- Automobiles, Adjustable steering-column for. A. Winton and H. B. Anderson. No. 1,125,621; Jan. 19; Gaz. vol. 210; p. 932.
- Automobiles and like vehicles, Driving mechanism for. J. M. Lull. No. 1,146,632; July 13; Gaz. vol. 216; p. 601.
- Automobiles and other road-vehicles, Indicating device for. J. H. Faulkner. No. 1,145,760; July 6; Gaz. vol. 216; p. 275.
- Automobiles and other vehicles, Apparatus for washing. W. F. Saunders. No. 1,158,079; Oct. 26; Gaz. vol. 219; p. 1084.
- Automobiles and other vehicles, Automatic safety brake-lock for. G. E. R. Rothenbuecher. No. 1,142,845; June 15; Gaz. vol. 215; p. 691.
- Automobiles and other vehicles, Fender for. A. M. Kennedy. No. 1,148,234; July 27; Gaz. vol. 216; p. 1209.
- Automobiles and other vehicles, Fender for. A. M. Kennedy. No. 1,148,235; July 27; Gaz. vol. 216; p. 1209.
- Automobiles and other vehicles, Safety-brake for. A. J. Orelli. No. 1,149,779; Aug. 10; Gaz. vol. 217; p. 565.
- Automobiles and other vehicles, Step for. F. H. Stanwood. No. 1,144,439; June 29; Gaz. vol. 215; p. 1302.
- Automobiles and other vehicles, Washing device for. H. T. Ford. No. 1,142,689; June 8; Gaz. vol. 215; p. 598.
- Automobiles and similar driven vehicles, Power-increasing attachment for. C. J. Chloupek. No. 1,145,830; July 6; Gaz. vol. 216; p. 299.
- Automobiles and similar vehicles, Electrical protector for. G. A. Merrill. No. 1,131,405; Mar. 9; Gaz. vol. 212; p. 576.
- Automobiles and the like, Adjustable steering-column for. C. E. Glenn. No. 1,153,202; Oct. 26; Gaz. vol. 219; p. 1124.
- Automobiles and the like, Driving mechanism for. W. N. Allan. No. 1,160,032; Nov. 9; Gaz. vol. 220; p. 602.
- Automobiles and the like, Ignition apparatus for. R. H. Cunningham. No. 1,127,197; Feb. 2; Gaz. vol. 211; p. 188.
- Automobiles and the like, Steering apparatus for. W. H. Exley and W. T. Field. No. 1,158,469; Nov. 2; Gaz. vol. 220; p. 20.
- Automobiles, Automatic dirigible lamp mechanism for. E. G. Howard. No. 1,151,880; Aug. 31; Gaz. vol. 217; p. 1460.
- Automobiles, Automatic dirigible light for. E. R. Tremell. No. 1,127,321; Feb. 2; Gaz. vol. 211; p. 229.
- Automobiles, Automatic power-jack for. J. M. Stucker. No. 1,131,747; Mar. 16; Gaz. vol. 212; p. 730.
- Automobiles, &c., Buffer or guard for. H. Griffith. No. 1,159,662; Nov. 9; Gaz. vol. 220; p. 470.
- Automobiles, Circulation system for. H. Kohnle. No. 1,158,691; Nov. 2; Gaz. vol. 220; p. 98.
- Automobiles, Combined shock-absorber and air-pump for. L. W. Lombard. No. 1,151,805; Aug. 31; Gaz. vol. 217; p. 1434.
- Automobiles, Controlling mechanism for electric. O. P. Fritchle. No. 1,127,427; Feb. 9; Gaz. vol. 211; p. 307.
- Automobiles, Corner-turning indicator for. S. Jackson. No. 1,136,139; Apr. 20; Gaz. vol. 213; p. 809.
- Automobiles, Cowl structure for. J. Ledwinka. No. 1,123,899; Jan. 5; Gaz. vol. 210; p. 239.
- Automobiles, Clutch-release for Ford. F. C. Allen. No. 1,130,560; Mar. 2; Gaz. vol. 212; p. 252.
- Automobiles, Differential gearing for. A. T. Nogrady. No. 1,140,312; May 18; Gaz. vol. 214; p. 983.
- Automobiles, Differential mechanism for. A. S. Maniscalco. No. 1,157,319; Oct. 19; Gaz. vol. 219; p. 753.
- Automobiles, Electric door unlocking and opening and closing means for. K. W. Kurtz. No. 1,151,479; Aug. 24; Gaz. vol. 217; p. 1273.
- Automobiles, Electric heater for use in connection with water-cooled gasoline. G. P. Metcalf. No. 1,155,599; Oct. 5; Gaz. vol. 219; p. 95.
- Automobiles, Electric-lighting system for. J. Bjur. No. 1,137,831; May 4; Gaz. vol. 214; p. 38.
- Automobiles, Electric signal for. H. C. Dolan. No. 1,145,005; July 6; Gaz. vol. 216; p. 9.
- Automobiles, Emergency windlass for. O. H. Willard. No. 1,156,648; Oct. 12; Gaz. vol. 219; p. 487.
- Automobiles, Exhaust-utilizing system for. C. C. Hole. No. 1,143,395; June 15; Gaz. vol. 215; p. 888.
- Automobiles, Eye-shield for attachment to. I. De Brown and H. A. Schultz. No. 1,141,763; June 1; Gaz. vol. 215; p. 238.
- Automobiles, Foot throttle or accelerator for. E. M. Gibson and C. W. Staples. No. 1,131,830; Mar. 16; Gaz. vol. 212; p. 762.
- Automobiles, Frictional transmission-gearing for. F. C. De Vallant and R. Weaver. No. 1,147,487; July 20; Gaz. vol. 216; p. 920.
- Automobiles from theft, Apparatus for safeguarding. O. A. Smith. No. 1,132,128; Mar. 16; Gaz. vol. 212; p. 869.
- Automobiles, Front-wheel drive for. J. F. Montine. No. 1,132,861; Mar. 23; Gaz. vol. 212; p. 1186.
- Automobiles, Gasolene-cut-off lock for. W. O. Reid. No. 1,159,689; Nov. 2; Gaz. vol. 220; p. 235.
- Automobiles, Gasolene cut-off for. S. Shafer. No. 1,130,027; Mar. 2; Gaz. vol. 212; p. 65.
- Automobiles, Hood-fastener for. N. W. Cummins. No. 1,140,503; May 25; Gaz. vol. 214; p. 1088.
- Automobiles, Horn-blowing attachment for. W. W. Scott. No. 1,138,801; May 11; Gaz. vol. 214; p. 418.
- Automobiles, Inclosure for. C. F. and J. Kurtz. No. 1,156,154; Oct. 12; Gaz. vol. 219; p. 314.
- Automobiles, Manifold-valve lock for. J. H. Dugan and M. N. Smith. No. 1,157,929; Oct. 26; Gaz. vol. 219; p. 1028.
- Automobiles, Means for preventing the freezing of the cooling systems of. H. E. Kailer. No. 1,144,939; June 29; Gaz. vol. 215; p. 1471.
- Automobiles, Mechanically-operated gear-changing mechanism for. D. C. Lewis. No. 1,150,045; Aug. 17; Gaz. vol. 217; p. 722.
- Automobiles, Mechanism for testing and for instruction in the operation of. C. M. Bishop. No. 1,161,920; Nov. 30; Gaz. vol. 220; p. 1413.
- Automobiles, motor-boats, and the like, Device to prevent theft or unauthorized use of. H. F. Fagan. No. 1,140,141; May 18; Gaz. vol. 214; p. 926.
- Automobiles, Mud-grip for. J. M. Fraser. No. 1,140,028; May 18; Gaz. vol. 214; p. 886.
- Automobiles or like vehicles, Washing device for. H. T. Ford. No. 1,152,016; Aug. 31; Gaz. vol. 217; p. 1506.
- Automobiles, Pedal control for. R. T. Peirce. No. 1,137,166; Apr. 27; Gaz. vol. 213; p. 1213.
- Automobiles, Pennant-holder for. F. Loungley. No. 1,138,964; May 11; Gaz. vol. 214; p. 474.
- Automobiles, Pivotal turning means for. A. I. McGlouchlin. No. 1,126,052; Jan. 26; Gaz. vol. 210; p. 1119.
- Automobiles, Pneumatic cushion for. E. A. Wilcox. No. 1,140,645; May 25; Gaz. vol. 214; p. 1137.
- Automobiles, Priming apparatus for. G. W. Meyer. No. 1,145,255; July 6; Gaz. vol. 216; p. 98.
- Automobiles, Protective fuel-valve for. H. Kortum. No. 1,125,123; Jan. 19; Gaz. vol. 210; p. 754.
- Automobiles, Radiator-tube for. A. P. Wolfe. No. 1,146,117; July 13; Gaz. vol. 216; p. 419.
- Automobiles, Regulator for drop-windows for closed. F. B. Clement. No. 1,157,677; Oct. 26; Gaz. vol. 219; p. 940.
- Automobiles, Sand-creeper for. F. L. Pearson. No. 1,130,838; Mar. 9; Gaz. vol. 212; p. 381.
- Automobiles, Seat arrangement for. W. O. Cornwell, Jr. No. 1,146,849; July 20; Gaz. vol. 216; p. 695.
- Automobiles, Sleigh attachment for. J. F. Montine. No. 1,132,862; Mar. 23; Gaz. vol. 212; p. 1187.
- Automobiles, Speedometer-drive for. C. H. Craft. No. 1,134,591; Apr. 6; Gaz. vol. 213; p. 185.
- Automobiles, Storage-battery-charging switch for. E. Eismann. No. 1,125,080; Jan. 19; Gaz. vol. 210; p. 739.
- Automobiles, Stove attachment for. E. S. Mumma. No. 1,140,655; May 18; Gaz. vol. 214; p. 896.
- Automobiles, Stretchor or bed for. L. L. Bradley. No. 1,134,312; Apr. 6; Gaz. vol. 213; p. 84.
- Automobiles, Theft-prevention device for. F. K. Fassett. No. 1,139,757; May 18; Gaz. vol. 214; p. 789.
- Automobiles, Throttle and spark control for. E. K. Conover. No. 1,131,600; Mar. 9; Gaz. vol. 212; p. 643.
- Automobiles, Traction and antiskidding device for. J. Ross. No. 1,138,014; May 4; Gaz. vol. 214; p. 101.
- Automobiles, Transmission-gearing for. A. R. Strouville and L. T. Mason. No. 1,154,140; Sept. 21; Gaz. vol. 218; p. 698.
- Automobiles, Travel-indicating signal for. A. J. Lamb. No. 1,164,366; Dec. 14; Gaz. vol. 221; p. 617.
- Automobiles, Winch attachment for. C. L. Pittman. No. 1,151,819; Aug. 31; Gaz. vol. 217; p. 1439.
- Automobiles, Windlass attachment for. R. S. James, D. M. Anderson, and P. V. Allen. No. 1,165,510; Dec. 28; Gaz. vol. 221; p. 1094.
- Automobiles, Worm-drive for. E. S. Sutch. No. 1,163,483; Dec. 7; Gaz. vol. 221; p. 261.
- Autosled. K. Belkó. No. 1,155,786; Oct. 5; Gaz. vol. 219; p. 161.
- Autosled. J. Grandinetti. No. 1,151,176; Aug. 24; Gaz. vol. 217; p. 1173.
- Autosleigh. L. Townsend. No. 1,125,604; Jan. 19; Gaz. vol. 210; p. 926.
- Autotractor. C. L. Best. No. 1,153,114; Oct. 26; Gaz. vol. 219; p. 1093.

Alphabetical list of inventions—Continued.

- Autotractor. P. E. Holt. No. 1,140,823; May 25; Gaz. vol. 214; p. 1197.
- Autovehicle signal apparatus. C. C. Holmes. No. 1,128,250; Feb. 9; Gaz. vol. 211; p. 595.
- Autovehicles, Front and rear drive for. R. C. Criswell. No. 1,155,216; Sept. 23; Gaz. vol. 218; p. 1095.
- Autovehicles, Power system for. R. Varley. No. 1,129,147; Feb. 23; Gaz. vol. 211; p. 994.
- Auxiliary spring. F. N. Sprague. No. 1,134,927; Apr. 6; Gaz. vol. 213; p. 300.
- Aviator's safety device. W. A. Mackay. No. 1,134,884; Apr. 6; Gaz. vol. 213; p. 287.
- Awl, Shoemaker's. M. Gaydosh. No. 1,152,890; Sept. 7; Gaz. vol. 218; p. 188.
- Awl-feeding mechanism. W. R. Blair. No. 1,143,683; June 22; Gaz. vol. 215; p. 1010.
- Awls, Channeller for. J. D. Randall. No. 1,125,394; Jan. 19; Gaz. vol. 210; p. 854.
- Awning. W. A. Hlasseries. No. 1,151,266; Aug. 24; Gaz. vol. 217; p. 1203.
- Awning. B. C. Kline. No. 1,127,639; Feb. 9; Gaz. vol. 211; p. 379.
- Awning and frame, Collapsible. N. Giusto. No. 1,125,512; Jan. 19; Gaz. vol. 210; p. 893.
- Awning attachment. L. H. Hatley. No. 1,162,161; Nov. 30; Gaz. vol. 220; p. 1498.
- Awning, Chair. A. Myers. No. 1,155,366; Oct. 5; Gaz. vol. 219; p. 15.
- Awning-cord-operating protector device. J. M. Hanf. No. 1,138,213; May 4; Gaz. vol. 214; p. 171.
- Awning-fastener. A. F. Nugent. No. 1,125,589; Jan. 19; Gaz. vol. 210; p. 920.
- Awning-fixture. M. Dowlin. No. 1,149,036; Aug. 3; Gaz. vol. 217; p. 195.
- Awning-fixture. J. E. Osborne. No. 1,150,296; Aug. 17; Gaz. vol. 217; p. 813.
- Awning-frame. H. L. Rea. No. 1,147,544; July 20; Gaz. vol. 216; p. 939.
- Awning-hanger. R. L. Woodit. No. 1,166,165; Dec. 28; Gaz. vol. 221; p. 1326.
- Awning-support. M. Ostoic. No. 1,159,986; Nov. 9; Gaz. vol. 220; p. 588.
- Awning-top support. M. Dowlin. No. 1,162,582; Nov. 30; Gaz. vol. 220; p. 1641.
- Ax. L. L. Lang. No. 1,146,178; July 13; Gaz. vol. 216; p. 441.
- Axle and forming the same. F. A. Bower. No. 1,164,915; Dec. 21; Gaz. vol. 221; p. 848.
- Axle. W. E. Wise. No. 1,143,475; June 15; Gaz. vol. 215; p. 914.
- Axle and axle-box. W. O. Shadbolt. No. 1,148,339; July 27; Gaz. vol. 216; p. 1248.
- Axle and wheel, Combined vehicle. W. L. Alexander. No. 1,125,432; Jan. 19; Gaz. vol. 210; p. 867.
- Axle and wheel mounting, Vehicle. S. Tatlow. No. 1,157,061; Oct. 19; Gaz. vol. 219; p. 662.
- Axle and wheel, Steering. H. C. Marmon. No. 1,137,996; May 4; Gaz. vol. 214; p. 95.
- Axle, Automobile. W. W. Macfarren. No. 1,160,304; Nov. 16; Gaz. vol. 220; p. 751.
- Axle, Automobile. H. C. Marmon. No. 1,146,008; July 13; Gaz. vol. 216; p. 381.
- Axle-box. J. R. Fleming. (Reissue.) No. 1,397,6; Sept. 7; Gaz. vol. 218; p. 288.
- Axle-box. J. J. Gilroy. No. 1,136,952; Apr. 27; Gaz. vol. 213; p. 1136.
- Axle box for locomotives, Driving. K. Rushton. No. 1,146,659; July 13; Gaz. vol. 216; p. 610.
- Axle-box lids, T-pin for. I. A. Randel and A. C. McCord. No. 1,146,953; July 20; Gaz. vol. 216; p. 732.
- Axle-boxes, Wedge-supporting block for. I. B. Abraham. No. 1,133,082; Mar. 23; Gaz. vol. 212; p. 1267.
- Axle boxing or sleeve. A. H. Gadke. No. 1,164,179; Dec. 14; Gaz. vol. 221; p. 550.
- Axle bracket, Jack-engaging rear. H. C. Edwards. No. 1,137,002; Apr. 27; Gaz. vol. 213; p. 1154.
- Axle, Buggy. C. B. Elliott and E. Kurtz. No. 1,140,138; May 18; Gaz. vol. 214; p. 926.
- Axle-clip. D. C. Oehler. No. 1,133,173; Mar. 23; Gaz. vol. 212; p. 1300.
- Axle construction. W. J. Siefel. No. 1,141,078; May 25; Gaz. vol. 214; p. 1286.
- Axle construction. G. W. Yates. No. 1,143,477; June 15; Gaz. vol. 215; p. 915.
- Axle construction for motor-vehicles, Drive. A. C. Culver and A. W. Russel. No. 1,159,652; Nov. 9; Gaz. vol. 220; p. 467.
- Axle construction for motor-vehicles, Rear. C. L. Smith. No. 1,138,900; May 11; Gaz. vol. 214; p. 452.
- Axle construction, Motor-vehicle. H. W. Sneden. No. 1,149,095; Aug. 3; Gaz. vol. 217; p. 214.
- Axle-dies. S. Nelson. No. 1,129,417; Feb. 23; Gaz. vol. 211; p. 1088.
- Axle drive, Rear. P. J. E. Proud. No. 1,149,985; Aug. 10; Gaz. vol. 217; p. 640.
- Axle, Driving and steering. O. Zachow. No. 1,153,281; Sept. 14; Gaz. vol. 218; p. 361.
- Axle extension, Emergency. C. Henthorn and W. T. Wehe. No. 1,139,182; May 11; Gaz. vol. 214; p. 553.
- Axle for automobiles. H. Liechty. No. 1,136,348; Apr. 26; Gaz. vol. 213; p. 884.
- Axle for automobiles. R. H. Rosenberg. No. 1,137,287; Apr. 27; Gaz. vol. 213; p. 1259.
- Axle for motor-cars. H. Liechty. No. 1,136,349; Apr. 26; Gaz. vol. 213; p. 844.
- Axle for motor-vehicles. H. C. Marmon. No. 1,133,813; Mar. 30; Gaz. vol. 212; p. 1564.
- Axle-housing. F. C. Burkhardt. No. 1,127,399; Feb. 9; Gaz. vol. 211; p. 297.
- Axle-joint. E. J. Armstrong. No. 1,162,204; Nov. 30; Gaz. vol. 220; p. 1513.
- Axle lighting, Car. R. C. Hull and J. L. Woodbridge. No. 1,161,681; Nov. 23; Gaz. vol. 220; p. 1284.
- Axle-lighting dynamos, Suspension for. H. G. Myers. No. 1,142,267; June 8; Gaz. vol. 215; p. 452.
- Axle lighting system, Car. J. L. Woodbridge. No. 1,130,687; Mar. 2; Gaz. vol. 212; p. 296.
- Axle-lubricator. P. Burrill. No. 1,155,790; Oct. 5; Gaz. vol. 219; p. 163.
- Axle, Motor-vehicle. E. D. Caldwell. No. 1,130,065; Mar. 2; Gaz. vol. 212; p. 78.
- Axle-mount. F. MacVicar. No. 1,154,143; Sept. 21; Gaz. vol. 218; p. 699.
- Axle parts, Connection of. E. Bugatti. No. 1,140,496; May 25; Gaz. vol. 214; p. 1086.
- Axle-spindle. L. Felber. No. 1,150,753; Aug. 17; Gaz. vol. 217; p. 969.
- Axle, Spring. J. H. Gilliland. No. 1,128,770; Feb. 16; Gaz. vol. 211; p. 824.
- Axle, Spring. J. H. Gilliland. No. 1,138,467; May 4; Gaz. vol. 214; p. 263.
- Axle-support. H. C. Waite. No. 1,144,513; June 29; Gaz. vol. 215; p. 1327.
- Axle suspension, Resilient means for vehicle. N. Guthrie and C. L. Johnson. No. 1,143,699; June 22; Gaz. vol. 215; p. 1015.
- Axle-trimming device. W. E. Wilson. No. 1,133,519; Mar. 30; Gaz. vol. 212; p. 1458.
- Axle truss, Rear. A. R. Brocksmith. No. 1,153,996; Sept. 21; Gaz. vol. 218; p. 648.
- Axle truss, Rear. H. H. Sunvold. No. 1,144,443; June 29; Gaz. vol. 215; p. 1303.
- Axles, Making drop-forged drop. L. C. Irish. No. 1,134,456; Apr. 6; Gaz. vol. 213; p. 136.
- Axles, Manufacturing. S. Nelson. No. 1,129,418; Feb. 23; Gaz. vol. 211; p. 1088.
- Azimuth and other indicator. G. S. Tiffany. No. 1,156,113; Oct. 12; Gaz. vol. 219; p. 300.
- Babies, Folding and convertible holder for. J. H. Ruel. No. 1,129,606; Feb. 23; Gaz. vol. 211; p. 1156.
- Baby-chair and perambulator. S. F. Withrow. No. 1,155,855; Oct. 5; Gaz. vol. 219; p. 186.
- Baby-jumper. G. W. Rundle. No. 1,126,290; Jan. 26; Gaz. vol. 210; p. 1206.
- Baby-jumper. G. W. Rundle. No. 1,126,291; Jan. 26; Gaz. vol. 210; p. 1206.
- Baby-pants. J. H. and I. Taylor. No. 1,163,793; Dec. 14; Gaz. vol. 221; p. 417.
- Baby-walker. F. H. Knight. No. 1,141,123; June 1; Gaz. vol. 215; p. 11.
- Baby-walker. M. Passerieux. No. 1,154,543; Sept. 21; Gaz. vol. 218; p. 835.
- Back attachment, Folding. H. W. Weed. No. 1,146,676; July 13; Gaz. vol. 216; p. 616.
- Back-band. W. N. Gandy. No. 1,129,972; Mar. 2; Gaz. vol. 212; p. 46.
- Back, Folding. H. W. Weed. No. 1,146,675; July 13; Gaz. vol. 216; p. 615.
- Back or shoulder rest. J. Kranz. No. 1,123,317; Jan. 5; Gaz. vol. 210; p. 41.
- Back-rest and back-gage or welt-guide mechanism. A. Eppler. No. 1,142,157; June 8; Gaz. vol. 215; p. 413.
- Bacterial cultures, Container for transporting. G. H. Earp-Thomas. No. 1,137,388; Apr. 27; Gaz. vol. 213; p. 1296.
- Bag: See—
- | | |
|----------------------|---------------------|
| Air-bag. | Laundry-bag. |
| Automobile tool-bag. | Mail-bag. |
| Feed-bag. | Paper bag. |
| Fruit-gathering bag. | Saddle-bag. |
| Fruit-picker's bag. | Sleeping-bag. |
| Game and shell bag. | Three-cornered bag. |
| Golf-bag. | Traveling-bag. |
| Grain-bag. | Vacuum-cleaner bag. |
| Hand-bag. | Water-bag. |
| Ice-cream-cone bag. | |
- Bag. A. M. Bates. No. 1,164,451; Dec. 14; Gaz. vol. 221; p. 646.
- Bag. E. Hernhuter. No. 1,157,388; Oct. 19; Gaz. vol. 219; p. 778.
- Bag. C. P. Kleebauer. No. 1,155,248; Sept. 28; Gaz. vol. 218; p. 1105.
- Bag. E. B. Stimpson. No. 1,138,699; May 11; Gaz. vol. 214; p. 380.
- Bag catch, Traveling. C. E. Smith. No. 1,160,458; Nov. 16; Gaz. vol. 220; p. 804.
- Bag-clasp. E. L. Persons. No. 1,129,599; Feb. 23; Gaz. vol. 211; p. 1153.
- Bag-cleaner. J. C. Cramp. No. 1,163,131; Dec. 7; Gaz. vol. 221; p. 138.
- Bag-cleaning apparatus. J. G. Ellendt. No. 1,156,280; Oct. 12; Gaz. vol. 219; p. 355.

Alphabetical list of inventions—Continued.

- Bag closure, Mothproof-. J. J. Scheuch. No. 1,130,342; Mar. 2; Gaz. vol. 212; p. 173.
- Bag-cover. E. M. Peters. No. 1,165,203; Dec. 21; Gaz. vol. 221; p. 950.
- Bag-fastener. F. A. Fuller. No. 1,126,973; Feb. 2; Gaz. vol. 211; p. 108.
- Bag-fastener. F. A. Fuller. No. 1,153,301; Sept. 14; Gaz. vol. 218; p. 368.
- Bag-fastener. F. A. Fuller. No. 1,156,003; Oct. 5; Gaz. vol. 219; p. 234.
- Bag-fastener. F. A. Fuller. No. 1,156,004; Oct. 5; Gaz. vol. 219; p. 235.
- Bag-fastener. F. A. Fuller. No. 1,159,756; Nov. 9; Gaz. vol. 220; p. 505.
- Bag-fastener. F. A. Fuller. No. 1,159,757; Nov. 9; Gaz. vol. 220; p. 506.
- Bag-frame. F. A. Fuller. No. 1,153,302; Sept. 14; Gaz. vol. 218; p. 368.
- Bag-fastener. F. A. Fuller. No. 1,163,331; Dec. 7; Gaz. vol. 221; p. 209.
- Bag-fastener. J. Hammesfahr. No. 1,132,932; Mar. 23; Gaz. vol. 212; p. 1211.
- Bag-fastener. J. Hammesfahr. No. 1,143,388; June 15; Gaz. vol. 215; p. 885.
- Bag-fastener. J. Ritter. No. 1,132,974; Mar. 23; Gaz. vol. 212; p. 1228.
- Bag fastener, Hand-. H. Diffany. No. 1,143,514; June 15; Gaz. vol. 215; p. 926.
- Bag, Feed-. H. Sierzbinski. No. 1,147,934; July 27; Gaz. vol. 216; p. 767.
- Bag-filling apparatus. G. Stone. No. 1,141,220; June 1; Gaz. vol. 215; p. 46.
- Bag-filling machine. A. M. Bates. No. 1,138,618; May 11; Gaz. vol. 214; p. 351.
- Bag-filling machine. A. M. Bates. No. 1,140,867; May 25; Gaz. vol. 214; p. 1214.
- Bag-filling machine. G. R. King and S. W. Fancher. No. 1,124,459; Jan. 12; Gaz. vol. 210; p. 483.
- Bag-frame. F. A. Fuller. No. 1,147,934; July 27; Gaz. vol. 216; p. 1102.
- Bag-frame. J. W. Jennings. No. 1,162,927; Dec. 7; Gaz. vol. 221; p. 67.
- Bag-frame. B. Vom Eigen. No. 1,153,652; Sept. 14; Gaz. vol. 218; p. 494.
- Bag-frame, English or sewed-in. J. Lange. No. 1,124,467; Jan. 12; Gaz. vol. 210; p. 486.
- Bag-frame, English or sewed-in. H. Tueckmantel. No. 1,151,838; Aug. 31; Gaz. vol. 217; p. 1445.
- Bag-frame fastener. B. vom Eigen. No. 1,139,826; May 18; Gaz. vol. 214; p. 814.
- Bag-frame fastener. B. Vom Eigen. No. 1,153,654; Sept. 14; Gaz. vol. 218; p. 494.
- Bag frames, Safety-catch for. B. vom Eigen. No. 1,143,336; June 15; Gaz. vol. 215; p. 865.
- Bag-handle fastener. M. H. Eiseiman. No. 1,129,967; Mar. 2; Gaz. vol. 212; p. 45.
- Bag-holder. R. D. Angstead. No. 1,159,152; Nov. 2; Gaz. vol. 220; p. 257.
- Bag-holder. E. D. Flinchbaugh. No. 1,125,286; Jan. 19; Gaz. vol. 210; p. 814.
- Bag-holder. M. E. Hall. No. 1,129,799; Feb. 23; Gaz. vol. 211; p. 1218.
- Bag-holder. T. F. Hawke. No. 1,132,181; Mar. 16; Gaz. vol. 212; p. 888.
- Bag-holder. H. B. Hotchkiss. No. 1,149,446; Aug. 10; Gaz. vol. 217; p. 445.
- Bag-holder. G. C. Mottern. No. 1,133,171; Mar. 23; Gaz. vol. 212; p. 1299.
- Bag-holder. H. B. Vannote. No. 1,149,604; Aug. 10; Gaz. vol. 217; p. 500.
- Bag-holder. F. C. Vonderabe. No. 1,157,013; Oct. 26; Gaz. vol. 219; p. 1057.
- Bag-holder. G. J. Wunder. No. 1,157,138; Oct. 19; Gaz. vol. 219; p. 688.
- Bag-holder clamp. E. Smith and G. W. Snook. No. 1,129,911; Mar. 2; Gaz. vol. 212; p. 27.
- Bag-jaw fastener. L. B. Prahar. No. 1,143,226; June 15; Gaz. vol. 215; p. 828.
- Bag-lining. C. A. Kiger. No. 1,129,495; Feb. 23; Gaz. vol. 211; p. 1116.
- Bag-lock. A. Bonime. No. 1,157,364; Oct. 19; Gaz. vol. 219; p. 769.
- Bag-lock. A. B. Foans. No. 1,126,439; Jan. 26; Gaz. vol. 210; p. 1259.
- Bag-lock. H. Shpetner. No. 1,148,999; Aug. 3; Gaz. vol. 217; p. 182.
- Bag-lock. R. A. Teel. No. 1,141,022; May 25; Gaz. vol. 214; p. 1267.
- Bag-lock. C. Totten. No. 1,137,035; Apr. 27; Gaz. vol. 213; p. 1166.
- Bag-lock. L. Wertheim. (Reissue.) No. 13,886; Feb. 23; Gaz. vol. 211; p. 1233.
- Bag lock, Hand-. M. Brooks and H. B. Freeman. No. 1,155,880; Oct. 5; Gaz. vol. 219; p. 194.
- Bag-mouth-spreading device. A. F. Willoughby. No. 1,124,091; Jan. 5; Gaz. vol. 210; p. 303.
- Bag or container making apparatus. W. Rose. No. 1,159,276; Nov. 2; Gaz. vol. 220; p. 301.
- Bag-shaking apparatus. A. D. Bryant. No. 1,163,318; Dec. 7; Gaz. vol. 221; p. 204.
- Bag-splitter. W. J. Cullen. No. 1,164,476; Dec. 14; Gaz. vol. 221; p. 655.
- Bag-tie. A. M. Bates. No. 1,156,265; Oct. 12; Gaz. vol. 219; p. 351.
- Bag-tie. A. M. Bates. No. 1,164,450; Dec. 14; Gaz. vol. 221; p. 646.
- Bag-tying machine. A. M. Bates. No. 1,151,752; Aug. 31; Gaz. vol. 217; p. 1414.
- Bag-turner. I. Hirschfeld. No. 1,155,152; Sept. 28; Gaz. vol. 218; p. 1075.
- Bag-turning machine. A. Noyes. No. 1,148,853; Aug. 3; Gaz. vol. 217; p. 132.
- Bag-turning machine. D. F. Stein. No. 1,140,627; May 25; Gaz. vol. 214; p. 1131.
- Bags and the like, Fastener for hand-. K. Oswald. No. 1,137,419; Apr. 27; Gaz. vol. 213; p. 1307.
- Bags, Angle-iron or bracket for English or sewed-in. H. Tueckmantel. No. 1,127,830; Feb. 9; Gaz. vol. 211; p. 451.
- Bags, baskets, and barrels, Adjustable non-detachable top for. H. A. Whitfield. No. 1,146,605; July 13; Gaz. vol. 216; p. 592.
- Bags, fabrics, or similar articles, Machine for cleaning. T. K. Stoner. No. 1,146,367; July 13; Gaz. vol. 216; p. 506.
- Bags, Harness for carrying cement-. J. F. Ross. No. 1,129,732; Feb. 23; Gaz. vol. 211; p. 1194.
- Bags, Making and filling. A. M. Bates. No. 1,143,801; June 22; Gaz. vol. 215; p. 1049.
- Bags, pouches, packages, or containers, Making. J. Peterson. No. 1,137,281; Apr. 27; Gaz. vol. 213; p. 1256.
- Bags, Wire-tying. A. M. Bates. No. 1,131,311; Mar. 9; Gaz. vol. 212; p. 544.
- Bagging-machine. A. M. Bates. No. 1,137,376; Apr. 27; Gaz. vol. 213; p. 1291.
- Bagging-machine. A. C. Sargent. No. 1,140,484; May 25; Gaz. vol. 214; p. 1082.
- Baggage-rack. F. E. Howard. No. 1,139,868; May 18; Gaz. vol. 214; p. 829.
- Bail. C. F. Perry. No. 1,148,399; July 27; Gaz. vol. 216; p. 1269.
- Bail and attaching-ears for pans. T. H. Roughton. No. 1,126,658; Jan. 26; Gaz. vol. 210; p. 1340.
- Bail-ear and cover and supplemental-casing fastening. J. A. King. No. 1,127,638; Feb. 9; Gaz. vol. 211; p. 379.
- Bail-ear, Wire. G. W. Knapp. No. 1,152,382; Aug. 31; Gaz. vol. 217; p. 1634.
- Bail-holder for kettles. C. H. Lindegard. No. 1,133,298; Mar. 30; Gaz. vol. 212; p. 1379.
- Bail making and inserting mechanism. G. W. Swift, Jr. No. 1,129,919; Mar. 2; Gaz. vol. 212; p. 30.
- Bait, Artificial. A. Burkman. No. 1,155,883; Oct. 5; Gaz. vol. 219; p. 195.
- Bait, Artificial. E. D. Myers. No. 1,140,279; May 18; Gaz. vol. 214; p. 972.
- Bait, Artificial. J. W. Reynolds. No. 1,133,669; Mar. 30; Gaz. vol. 212; p. 1514.
- Bait, Artificial. R. T. Wilson. No. 1,153,473; Sept. 14; Gaz. vol. 218; p. 431.
- Bait box, Fishing-. P. Lamb. No. 1,150,776; Aug. 17; Gaz. vol. 217; p. 977.
- Bait-casting device, Live-. C. L. White. No. 1,128,205; Feb. 9; Gaz. vol. 211; p. 580.
- Bait-hook. J. G. Henzel. No. 1,155,923; Oct. 5; Gaz. vol. 219; p. 208.
- Bait or lure, Artificial. W. Shakespeare, Jr. No. 1,150,635; Aug. 17; Gaz. vol. 217; p. 930.
- Bait or lure, Fish. C. W. Bidwell. No. 1,148,140; July 27; Gaz. vol. 216; p. 1178.
- Bait or lure, Fish. H. P. Damsma. No. 1,144,756; June 29; Gaz. vol. 215; p. 1409.
- Bait-receptacle. E. Spitzler. No. 1,140,625; May 25; Gaz. vol. 214; p. 1131.
- Baker, Steam-. E. L. Thomas. No. 1,156,723; Oct. 12; Gaz. vol. 219; p. 513.
- Baker's device. D. B. Briggs. No. 1,125,804; Jan. 19; Gaz. vol. 210; p. 999.
- Baker's double tin stick lady-lock pans. N. Huth. No. 1,139,037; May 11; Gaz. vol. 214; p. 502.
- Baker's peel. I. Schlager. No. 1,145,617; July 6; Gaz. vol. 216; p. 223.
- Baking apparatus. C. F. Freihofer. No. 1,127,224; Feb. 2; Gaz. vol. 211; p. 197.
- Baking apparatus. J. M. Gantvoort. No. 1,135,172; Apr. 13; Gaz. vol. 213; p. 431.
- Baking hearth-bread. H. Gottschalk. No. 1,151,356; Aug. 24; Gaz. vol. 217; p. 1232.
- Baking hearth-bread in automatic ovens, Dough-container for. H. Gottschalk. No. 1,151,355; Aug. 24; Gaz. vol. 217; p. 1232.
- Baking ice-cream cones, Machine for. R. G. Cargill. No. 1,127,401; Feb. 9; Gaz. vol. 211; p. 297.
- Baking-machine. J. H. Carpenter. No. 1,128,407; Feb. 16; Gaz. vol. 211; p. 699.
- Baking-machine. K. Kluge. No. 1,152,184; Aug. 31; Gaz. vol. 217; p. 1564.
- Baking-machine, Automatic. J. W. Lawhead. No. 1,150,211; Aug. 17; Gaz. vol. 217; p. 782.
- Baking-pan. A. Cohn. No. 1,149,730; Aug. 10; Gaz. vol. 217; p. 547.
- Baking-pan. C. E. Pierce. No. 1,139,445; May 11; Gaz. vol. 214; p. 644.

Alphabetical list of inventions—Continued.

- Baking-pan and mold for biscuits. R. E. Valentine. No. 1,124,363; Jan. 12; Gaz. vol. 210; p. 448.
- Baking plates and other uses, Apparatus for. C. E. Pope. No. 1,124,168; Jan. 5; Gaz. vol. 210; p. 330.
- Baking preparation. E. C. L. Kressel. No. 1,134,956; Apr. 6; Gaz. vol. 213; p. 311.
- Baking-rack. J. L. Thompson. No. 1,159,132; Nov. 2; Gaz. vol. 220; p. 249.
- Balance. J. Leuenberger and H. Senn. No. 1,145,427; July 6; Gaz. vol. 216; p. 157.
- Balance. W. Pestel. No. 1,128,500; Feb. 16; Gaz. vol. 211; p. 732.
- Balance. E. Sartorius. No. 1,132,880; Mar. 23; Gaz. vol. 212; p. 1192.
- Balance-wheels. Index-guide for. W. H. Grafton. No. 1,147,938; July 27; Gaz. vol. 216; p. 1104.
- Balances, Agate-mounting for. W. Pestel. No. 1,128,499; Feb. 16; Gaz. vol. 211; p. 792.
- Balancer for rotating bodies, Automatic. M. Leblanc. No. 1,159,052; Nov. 2; Gaz. vol. 220; p. 222.
- Balancing and measuring apparatus. G. H. Gibson. No. 1,160,275; Nov. 16; Gaz. vol. 220; p. 741.
- Balancing and steering device, Automatic. C. T. Ryland. No. 1,150,542; Aug. 17; Gaz. vol. 217; p. 897.
- Balancing by yielding resistances weights as embroidery-work frames suspended by supporting-levers, Mechanism for. W. A. Stellmacher. No. 1,126,905; Feb. 2; Gaz. vol. 211; p. 84.
- Balancing device. C. L. Larson. No. 1,146,629; July 13; Gaz. vol. 216; p. 600.
- Balancing-table. W. D. Pomeroy. No. 1,136,611; Apr. 20; Gaz. vol. 213; p. 979.
- Balcony, Folding. E. Mangisch. No. 1,142,596; June 8; Gaz. vol. 215; p. 568.
- Balcony, Folding window-. A. T. Osbron. No. 1,134,635; Apr. 6; Gaz. vol. 213; p. 201.
- Bale carrier, Cotton. J. R. Fordyce. No. 1,132,003; Mar. 16; Gaz. vol. 212; p. 823.
- Bale-forming press. A. T. Dudley. No. 1,158,054; Nov. 2; Gaz. vol. 220; p. 87.
- Bale or package removing mechanism. G. H. Davis. No. 1,149,250; Aug. 10; Gaz. vol. 217; p. 373.
- Bale or package removing mechanism. W. Von Phul. No. 1,149,310; Aug. 10; Gaz. vol. 217; p. 397.
- Bale or package removing mechanism. W. Von Phul, A. L. Black, and A. M. Lockett. No. 1,149,309; Aug. 10; Gaz. vol. 217; p. 396.
- Bale-tie. I. M. Thompson. No. 1,130,551; Mar. 2; Gaz. vol. 212; p. 250.
- Bale-tie. A. T. Weaver and J. Hauk, Jr. No. 1,165,730; Dec. 28; Gaz. vol. 221; p. 1173.
- Bale-tie-forming machine. A. T. Showalter. No. 1,134,020; Mar. 30; Gaz. vol. 212; p. 1631.
- Bale-tie machine. W. Emery. No. 1,125,990; Jan. 26; Gaz. vol. 210; p. 1006.
- Bale-tie machine. W. Emery. No. 1,125,991; Jan. 26; Gaz. vol. 210; p. 1007.
- Bale-tie machine. W. Emory. No. 1,163,902; Dec. 14; Gaz. vol. 221; p. 454.
- Bale-tie-trimming and buckle-attaching machine. H. Rogers. No. 1,128,517; Feb. 16; Gaz. vol. 211; p. 738.
- Bale-tying device, Hay-. B. G. Patterson. No. 1,152,209; Aug. 31; Gaz. vol. 217; p. 1573.
- Bales, Forming cotton and the like into. J. A. Taft. No. 1,145,630; July 6; Gaz. vol. 216; p. 228.
- Baler. P. Wareham. No. 1,162,833; Dec. 7; Gaz. vol. 221; p. 36.
- Baler, Hay-. M. A. Gibbons. No. 1,132,083; Mar. 16; Gaz. vol. 212; p. 852.
- Baler, Hay-. F. V. Hagan. No. 1,123,521; Jan. 5; Gaz. vol. 210; p. 110.
- Baler, Hay-. I. E. Ward. No. 1,156,828; Oct. 12; Gaz. vol. 219; p. 548.
- Baler, Sack-. W. P. Fulton. No. 1,147,500; July 20; Gaz. vol. 216; p. 924.
- Baler, Sack-. W. A. Webster. No. 1,135,931; Apr. 13; Gaz. vol. 213; p. 695.
- Baling-machine. W. H. Barten. No. 1,159,639; Nov. 9; Gaz. vol. 220; p. 463.
- Baling-machine. F. A. Lundahl. No. 1,133,048; Mar. 23; Gaz. vol. 212; p. 1256.
- Baling-press. R. O. Atkinson. No. 1,126,680; Feb. 2; Gaz. vol. 211; p. 4.
- Baling-press. A. Benson. No. 1,125,938; Jan. 26; Gaz. vol. 210; p. 1077.
- Baling-press. J. H. Best. No. 1,155,543; Oct. 5; Gaz. vol. 219; p. 77.
- Baling-press. W. Bottomley. No. 1,125,451; Jan. 19; Gaz. vol. 210; p. 874.
- Baling-press. C. L. Cookson. No. 1,164,992; Dec. 21; Gaz. vol. 221; p. 875.
- Baling-press. J. P. Gomes. No. 1,126,446; Jan. 26; Gaz. vol. 210; p. 1261.
- Baling-press. J. G. Haugh. No. 1,142,704; June 8; Gaz. vol. 215; p. 603.
- Baling-press. P. T. Jones. No. 1,137,059; Apr. 27; Gaz. vol. 213; p. 1175.
- Baling-press. G. W. Langford and H. A. Wenk. No. 1,127,650; Feb. 9; Gaz. vol. 211; p. 382.
- Baling-press. L. W. Macomber. No. 1,125,362; Jan. 19; Gaz. vol. 210; p. 842.
- Baling-press. L. W. Macomber. No. 1,142,188; June 8; Gaz. vol. 215; p. 424.
- Baling-press. C. L. Miller and L. J. Tofflemier. No. 1,163,250; Dec. 7; Gaz. vol. 221; p. 181.
- Baling-press. F. W. Morrissey. No. 1,130,006; Mar. 2; Gaz. vol. 212; p. 58.
- Baling-press. M. C. Nixon. No. 1,125,381; Jan. 19; Gaz. vol. 210; p. 849.
- Baling-press. F. K. Peterson and J. H. Baird. No. 1,126,073; Jan. 26; Gaz. vol. 210; p. 1129.
- Baling-press. G. E. Rider. No. 1,143,318; June 15; Gaz. vol. 215; p. 860.
- Baling-press. E. H. Sholar. No. 1,152,057; Aug. 31; Gaz. vol. 217; p. 1521.
- Baling-press. C. B. W. Smith. No. 1,141,088; May 25; Gaz. vol. 214; p. 1289.
- Baling-press. W. H. Stewart. No. 1,124,354; Jan. 12; Gaz. vol. 210; p. 446.
- Baling-press. G. A. Thomas and J. A. Yoder. No. 1,132,131; Mar. 16; Gaz. vol. 212; p. 870.
- Baling-press. T. G. White. No. 1,130,780; Mar. 9; Gaz. vol. 212; p. 361.
- Baling-press. J. N. Wood. No. 1,139,092; May 11; Gaz. vol. 214; p. 521.
- Baling-press. A. B. Wright. No. 1,146,680; July 13; Gaz. vol. 216; p. 618.
- Baling-press motor. W. S. Bellows. No. 1,150,574; Aug. 17; Gaz. vol. 217; p. 910.
- Baling-press plungers and the like, Actuating means for. J. C. Maloy. No. 1,159,241; Nov. 2; Gaz. vol. 220; p. 290.
- Baling-press-retainer lock. L. C. Young. No. 1,149,243; Aug. 10; Gaz. vol. 217; p. 371.
- Ball. *See*—
- | | |
|----------------|----------------|
| Athletic ball. | Foot-ball. |
| Bowling-ball. | Game-ball. |
| Drop-ball. | Inflated ball. |
| Flagpole-ball. | Valve-ball. |
- Ball and cue rack. W. F. Clegg. No. 1,135,437; Apr. 13; Gaz. vol. 213; p. 523.
- Ball and cue racking device. E. A. Thomas. No. 1,127,318; Feb. 2; Gaz. vol. 211; p. 228.
- Ball-and-screw elevator and fire-escape. C. T. Schnitzer. No. 1,161,255; Nov. 23; Gaz. vol. 220; p. 1136.
- Ball-and-socket connection. H. D. Church. No. 1,159,473; Nov. 9; Gaz. vol. 220; p. 404.
- Ball-and-socket joint. W. S. Porter and C. A. Winn. No. 1,123,796; Jan. 5; Gaz. vol. 210; p. 205.
- Ball apparatus, Base-. R. A. L'homme. No. 1,136,542; Apr. 20; Gaz. vol. 213; p. 954.
- Ball cover, Foot-. J. D. Farkas. No. 1,162,591; Nov. 30; Gaz. vol. 220; p. 1644.
- Ball inflater and sealer. A. A. Green. No. 1,138,749; May 11; Gaz. vol. 214; p. 398.
- Ball machine, Base-. E. M. Harberson. No. 1,144,472; June 29; Gaz. vol. 215; p. 1313.
- Ball-mill. F. E. Marcy. No. 1,137,878; May 4; Gaz. vol. 214; p. 54.
- Ball-mill. F. E. Marcy. No. 1,153,239; Sept. 14; Gaz. vol. 218; p. 347.
- Ball-mills, Screen-grate for. F. E. Marcy. No. 1,153,238; Sept. 14; Gaz. vol. 218; p. 346.
- Ball-pitching machine, Base-. J. L. Goude. No. 1,162,910; Dec. 7; Gaz. vol. 221; p. 61.
- Ball-pitching machine, Game-. A. R. and W. E. Judd. No. 1,146,262; July 13; Gaz. vol. 216; p. 471.
- Ball-player's protective device. E. Bourdon. No. 1,136,307; Apr. 20; Gaz. vol. 213; p. 870.
- Ball-playing, exercising, and practising apparatus. H. R. and W. R. Meyers. No. 1,152,748; Sept. 7; Gaz. vol. 218; p. 135.
- Ball rack and carrier, Combined triangle. J. A. Smith. No. 1,157,053; Oct. 19; Gaz. vol. 219; p. 659.
- Balls and spools of strand material, Holder for. J. H. Boye. No. 1,130,058; Mar. 2; Gaz. vol. 212; p. 75.
- Balls, Production of hollow resilient. J. W. Aylsworth and D. Smith. No. 1,134,433; Apr. 6; Gaz. vol. 213; p. 127.
- Ballast-burning machine. L. L. McCullough. No. 1,135,307; Apr. 13; Gaz. vol. 213; p. 478.
- Ballast-controlling apparatus. S. Lake. No. 1,127,648; Feb. 9; Gaz. vol. 211; p. 382.
- Balloon and analogous device. P. C. Hewlitt. No. 1,134,386; Apr. 6; Gaz. vol. 213; p. 110.
- Balloon, Sporting dirigible. S. Jellalian. No. 1,137,212; Apr. 27; Gaz. vol. 213; p. 1230.
- Balloon-stripping machine. B. V. Edwards. No. 1,142,945; June 15; Gaz. vol. 215; p. 728.
- Balloons, Advertising-lighting for dirigible. G. L. Bumbaugh. No. 1,143,807; June 22; Gaz. vol. 215; p. 1051.
- Ballot-box. J. O. Beauchemin. No. 1,125,796; Jan. 19; Gaz. vol. 210; p. 996.
- Ballot, Secret. L. J. Mountz. No. 1,146,647; July 13; Gaz. vol. 216; p. 606.
- Banana food and making same. H. E. Plunkett. No. 1,138,888; May 11; Gaz. vol. 214; p. 448.
- Bananas, Preserving. H. E. Plunkett. No. 1,138,887; May 11; Gaz. vol. 214; p. 448.
- Band-affixing mechanism. F. O. Woodland. No. 1,145,823; July 6; Gaz. vol. 216; p. 297.

Alphabetical list of inventions—Continued.

- Band-affixing mechanism. F. O. Woodland. No. 1,151,504; Aug. 24; Gaz. vol. 217; p. 1283.
- Band-brake. R. M. Brown. No. 1,141,035; May 25; Gaz. vol. 214; p. 1271.
- Band-brake. C. R. Shannon. No. 1,141,014; May 25; Gaz. vol. 214; p. 1264.
- Band connection. P. Drolshagen. No. 1,136,217; Apr. 20; Gaz. vol. 213; p. 838.
- Band-cutter and feeder. E. T. Croan. No. 1,131,334; Mar. 9; Gaz. vol. 212; p. 552.
- Band-cutter and feeder. J. F. Langdon. No. 1,136,966; Apr. 27; Gaz. vol. 213; p. 1140.
- Band-cutter guard. J. M. Whitcomb. No. 1,158,759; Nov. 2; Gaz. vol. 220; p. 122.
- Band. Expandible. F. E. Youngs. No. 1,138,605; May 4; Gaz. vol. 214; p. 308.
- Band-knife. C. J. Holscher. No. 1,137,973; May 4; Gaz. vol. 214; p. 88.
- Band. Reinforced laminated cohesive interwound fabric. L. Subers. No. 1,136,292; Apr. 20; Gaz. vol. 213; p. 865.
- Band-wheel. V. O. Zahniser. No. 1,143,013; June 15; Gaz. vol. 215; p. 752.
- Band-wheel supporting means. J. O. Shafer. No. 1,145,560; July 6; Gaz. vol. 216; p. 225.
- Banding-machine. M. F. Anderson. No. 1,142,656; June 8; Gaz. vol. 215; p. 587.
- Bandage-reel. J. Kozek. No. 1,159,234; Nov. 2; Gaz. vol. 220; p. 287.
- Bandage-roll cutter. F. W. Priestly. No. 1,146,098; July 13; Gaz. vol. 216; p. 413.
- Bandage rolls. Container for adhesive. O. C. Schulz. No. 1,134,560; Apr. 6; Gaz. vol. 213; p. 174.
- Bandage. Suspensory. H. J. Martin. No. 1,164,950; Dec. 21; Gaz. vol. 221; p. 861.
- Bandage. Therapeutical. A. A. Morek and H. Goldblatt. No. 1,138,579; May 4; Gaz. vol. 214; p. 298.
- Bandeau. Adjustable. B. Wertheimer. No. 1,159,305; Nov. 2; Gaz. vol. 220; p. 312.
- Bandeau for hats and the like. F. E. English. No. 1,157,093; Oct. 19; Gaz. vol. 219; p. 672.
- Bandoleer. V. H. Jennings. No. 1,128,149; Feb. 9; Gaz. vol. 211; p. 562.
- Bank. L. L. Joseph. No. 1,152,097; Aug. 31; Gaz. vol. 217; p. 1535.
- Bank. Coin-actuating savings-. F. Wright. No. 1,139,006; May 11; Gaz. vol. 214; p. 491.
- Bank or money-box. Savings-. W. H. Hart, Jr. No. 1,160,601; Nov. 16; Gaz. vol. 220; p. 856.
- Bank-protecting apparatus. F. C. Smakel. No. 1,142,736; June 8; Gaz. vol. 215; p. 612.
- Bank. Savings-. C. Fisher. No. 1,157,303; Oct. 19; Gaz. vol. 219; p. 748.
- Bank. Savings-. C. Fisher. No. 1,159,834; Nov. 9; Gaz. vol. 220; p. 534.
- Bank. Savings-. I. J. Kusel. No. 1,126,643; Jan. 26; Gaz. vol. 210; p. 1335.
- Bank. Savings-. I. Larsen. No. 1,150,525; Aug. 17; Gaz. vol. 217; p. 891.
- Bank-screen-wicket-operating device. F. W. Smith and C. Dipple, Jr. No. 1,163,785; Dec. 14; Gaz. vol. 221; p. 413.
- Bank. Terminal. J. N. Reynolds. No. 1,161,884; Nov. 30; Gaz. vol. 220; p. 1400.
- Bank-vault construction. A. Davis. No. 1,159,654; Nov. 9; Gaz. vol. 220; p. 467.
- Banks and the bed of watercourses, Defense of the. G. Maccaferri. No. 1,162,499; Nov. 30; Gaz. vol. 220; p. 1611.
- Banks. Making terminal. A. F. Dixon. No. 1,127,741; Feb. 9; Gaz. vol. 211; p. 417.
- Bar: See—
- Angle-bar. Enamel bar.
- Boring-bar. Grate-bar.
- Boring and facing bar. Handle-bar.
- Chase-lock bar. Molding-flask bar.
- Claw-bar. Rail-joint bar.
- Crowbar. Reinforcing-bar.
- Cutter-bar. Sickle-bar.
- Detector-bar. Splice-bar.
- Dolly-bar. Tracker-bar.
- Draw-bar. Vehicle spring-bar.
- Bar clip. Reinforcing-. H. H. Lampert. No. 1,126,493; Jan. 26; Gaz. vol. 210; p. 1278.
- Bar-handling apparatus. H. D. Williams and W. Ahlen. No. 1,155,118; Sept. 28; Gaz. vol. 218; p. 1063.
- Bar-making apparatus. G. Brooks, E. I. Dodds, and A. Kitzinger. No. 1,162,023; Nov. 30; Gaz. vol. 220; p. 1449.
- Bar or tube. Machine for turning and cutting off pieces from a. G. B. Taylor. No. 1,140,208; May 18; Gaz. vol. 214; p. 948.
- Bar-piler. H. G. McIlvried. No. 1,129,214; Feb. 23; Gaz. vol. 211; p. 1017.
- Bar tie and support. H. E. Bandtel. No. 1,144,093; June 22; Gaz. vol. 215; p. 1152.
- Bar-twisting machine. A. W. Gillespie. No. 1,123,518; Jan. 5; Gaz. vol. 210; p. 109.
- Bar-twisting machine. S. S. Porter. No. 1,148,121; July 27; Gaz. vol. 216; p. 1171.
- Bars. Apparatus for making spiral-rolled. F. H. Williams. No. 1,161,176; Nov. 23; Gaz. vol. 220; p. 1106.
- Bars, &c., Fastening for. A. C. Dobrick. No. 1,145,471; July 6; Gaz. vol. 216; p. 175.
- Bars. Machine for forming spurs and the like upon. C. E. Jacobson. No. 1,144,132; June 22; Gaz. vol. 215; p. 1166.
- Bars. Machine for the manufacture of twisted. R. Porter. No. 1,152,759; Sept. 7; Gaz. vol. 218; p. 138.
- Bars or rods. Machine for scarfing. R. A. Carter. No. 1,146,611; July 13; Gaz. vol. 216; p. 594.
- Bars or rods. Scarfing of. R. A. Carter. No. 1,146,612; July 13; Gaz. vol. 216; p. 594.
- Barbecue-furnace. J. G. Gordon. No. 1,156,773; Oct. 12; Gaz. vol. 219; p. 529.
- Barber's accessory. C. Z. Alexander. No. 1,152,870; Sept. 7; Gaz. vol. 218; p. 180.
- Barber's chair. J. R. Hibbets. No. 1,138,477; May 4; Gaz. vol. 214; p. 266.
- Barber's device. A. Di Salvo. No. 1,133,942; Mar. 30; Gaz. vol. 212; p. 1607.
- Bargain-indicator. L. J. J. Van der Hoon and S. Wouda. No. 1,153,737; Sept. 14; Gaz. vol. 218; p. 524.
- Barge. Sand-. C. C. West. No. 1,127,137; Feb. 2; Gaz. vol. 211; p. 167.
- Barge. Sand-. C. C. West. No. 1,127,138; Feb. 2; Gaz. vol. 211; p. 168.
- Barges or the like. Bank-spud for. F. E. Bager. No. 1,124,254; Jan. 12; Gaz. vol. 210; p. 408.
- Barium chlorid. Making. H. A. Gardner. No. 1,146,491; July 13; Gaz. vol. 216; p. 553.
- Barium oxid. Preparing. L. E. Saunders. (Reissue.) No. 13,924; June 8; Gaz. vol. 215; p. 635.
- Barium oxid. Producing. S. B. Newberry and H. N. Barrett. No. 1,133,392; Mar. 30; Gaz. vol. 212; p. 1413.
- Bark. Process for treating osier-. E. Petz. No. 1,148,401; July 27; Gaz. vol. 216; p. 1269.
- Bark-rossing machine. W. E. Beadle. No. 1,139,012; May 11; Gaz. vol. 214; p. 493.
- Bark-tripping machine. C. C. Hockley. No. 1,136,959; Apr. 27; Gaz. vol. 213; p. 1138.
- Barn-framing machine. A. F. Wolf. No. 1,133,902; Mar. 30; Gaz. vol. 212; p. 1595.
- Barrel. J. O. Ellinger. No. 1,155,344; Oct. 5; Gaz. vol. 219; p. 7.
- Barrel. E. W. Robinson. No. 1,130,434; Mar. 2; Gaz. vol. 212; p. 207.
- Barrel. L. G. Schaeneman. No. 1,145,801; July 6; Gaz. vol. 216; p. 289.
- Barrel-adjusting apparatus. P. Romberg. No. 1,137,168; Apr. 27; Gaz. vol. 213; p. 1214.
- Barrel-agitator. H. J. Brierley. No. 1,156,050; Oct. 12; Gaz. vol. 219; p. 278.
- Barrel and hoghead. Knockdown. W. S. Carter. No. 1,148,355; July 27; Gaz. vol. 216; p. 1254.
- Barrel and the like cover. V. Simonich. No. 1,164,230; Dec. 14; Gaz. vol. 221; p. 566.
- Barrel-cleaning apparatus. H. W. Arneemann. No. 1,125,930; Jan. 26; Gaz. vol. 210; p. 1074.
- Barrel. Collapsible. W. H. McCrery. No. 1,144,218; June 22; Gaz. vol. 215; p. 1198.
- Barrel. Collapsible. W. G. Tissue. No. 1,150,080; Aug. 17; Gaz. vol. 217; p. 734.
- Barrel-emptying machine. G. Shorten. No. 1,145,927; July 13; Gaz. vol. 216; p. 352.
- Barrel feeding and arresting device. H. Reininger. No. 1,158,289; Oct. 26; Gaz. vol. 219; p. 1155.
- Barrel-head. H. Ellis. No. 1,161,203; Nov. 23; Gaz. vol. 220; p. 1116.
- Barrel-head fastening. R. H. Puff. No. 1,148,622; Aug. 3; Gaz. vol. 217; p. 50.
- Barrel-head. Interlocking removable. S. A. Knapp. No. 1,151,525; Aug. 24; Gaz. vol. 217; p. 1290.
- Barrel-head. Removable. C. E. Martin. No. 1,160,740; Nov. 16; Gaz. vol. 220; p. 907.
- Barrel-heading machine. H. C. Herr. No. 1,153,160; Sept. 7; Gaz. vol. 218; p. 280.
- Barrel-hoop. E. E. Flora. No. 1,130,078; Mar. 2; Gaz. vol. 212; p. 82.
- Barrel-hoop. H. Lloyd. No. 1,130,413; Mar. 2; Gaz. vol. 212; p. 199.
- Barrel-jack. R. M. Kinnard. No. 1,158,235; Oct. 26; Gaz. vol. 219; p. 1135.
- Barrel. Knockdown. S. A. Knapp. No. 1,165,335; Dec. 21; Gaz. vol. 221; p. 993.
- Barrel. Knockdown. D. R. Pruden and D. W. Wormwood. No. 1,142,269; June 8; Gaz. vol. 215; p. 453.
- Barrel-ld. C. D. Mitchell. No. 1,155,261; Sept. 28; Gaz. vol. 218; p. 1109.
- Barrel-machine. B. W. Tucker. No. 1,152,575; Sept. 7; Gaz. vol. 218; p. 73.
- Barrel-making machine. E. F. Beugler. No. 1,154,684; Sept. 28; Gaz. vol. 218; p. 915.
- Barrel-making machine. C. J. Clark. No. 1,130,888; Mar. 9; Gaz. vol. 212; p. 1204.
- Barrel-making machine. J. A. Jeter and G. McIlroy. No. 1,147,509; July 20; Gaz. vol. 216; p. 927.
- Barrel-making machine. E. W. Robinson. No. 1,126,285; Jan. 26; Gaz. vol. 210; p. 1204.
- Barrel-packing-head holder. C. C. Bennett. No. 1,133,701; Mar. 30; Gaz. vol. 212; p. 1526.
- Barrel-pitching machine. H. Torchiani. No. 1,126,130; Jan. 26; Gaz. vol. 210; p. 1149.

- Barrel-rack. R. L. Wright. No. 1,139,007; May 11; Gaz. vol. 214; p. 491.
- Barrel, Sanitary. G. A. Krieger. No. 1,150,209; Aug. 17; Gaz. vol. 217; p. 781.
- Barrel, Sheet-metal. H. G. Dodds. No. 1,125,822; Jan. 19; Gaz. vol. 210; p. 1005.
- Barrel-sling. D. W. Buck. No. 1,145,292; July 6; Gaz. vol. 216; p. 110.
- Barrel-spud. G. E. Mittinger. No. 1,136,698; Apr. 20; Gaz. vol. 213; p. 1009.
- Barrel-tongs. J. E. Pettit. No. 1,165,341; Dec. 21; Gaz. vol. 221; p. 995.
- Barrels and kegs, Making metal. W. C. Winfield. No. 1,151,983; Aug. 31; Gaz. vol. 217; p. 1495.
- Barrels, Machine for dressing the interior of. M. J. Hadigan. No. 1,126,450; Jan. 26; Gaz. vol. 210; p. 1263.
- Barrels, Means for removably securing the heads of metallic. C. T. Draper. No. 1,150,843; Aug. 17; Gaz. vol. 217; p. 1002.
- Barrels, Removable cover for metal. A. Schroeder. No. 1,140,535; May 25; Gaz. vol. 214; p. 1101.
- Barrette. W. S. Bechtold. No. 1,155,399; Oct. 5; Gaz. vol. 219; p. 26.
- Barrette. A. J. Davey. No. 1,148,292; July 27; Gaz. vol. 216; p. 1220.
- Barrette or hair-retainer. R. H. Damon. No. 1,152,883; Sept. 7; Gaz. vol. 218; p. 185.
- Base. J. P. Richardson. No. 1,158,852; Nov. 2; Gaz. vol. 220; p. 156.
- Base-ball, Apparatus for mechanically throwing a. M. E. Koehler. No. 1,152,186; Aug. 31; Gaz. vol. 217; p. 1564.
- Base-ball board. T. H. Jackson. No. 1,166,218; Dec. 28; Gaz. vol. 221; p. 1346.
- Base-ball diamonds, Apparatus for controlling the placement of a covering over. O. A. Heckel. No. 1,155,309; Sept. 28; Gaz. vol. 218; p. 1124.
- Base-board, Metal. G. S. Knapp. No. 1,143,283; June 15; Gaz. vol. 215; p. 847.
- Base-exchanging substances, Manufacturing. R. Gans. No. 1,140,262; May 18; Gaz. vol. 214; p. 967.
- Base-exchanging substances, Obtaining. V. Kobelt. No. 1,147,515; July 20; Gaz. vol. 216; p. 929.
- Base, Physiologically-active. H. Hoerlein. No. 1,166,208; Dec. 28; Gaz. vol. 221; p. 1343.
- Base-plate. F. S. Parrigin. (Reissue.) No. 13,953; July 27; Gaz. vol. 216; p. 1302.
- Base-plate for feeding mechanisms. C. A. Cheshire. No. 1,147,482; July 20; Gaz. vol. 216; p. 918.
- Basic magnesium carbonate and preparing same. T. Silbermann. No. 1,163,475; Dec. 7; Gaz. vol. 221; p. 259.
- Basin, Catch. A. D. Bailey. No. 1,141,678; June 1; Gaz. vol. 215; p. 211.
- Basin, Catch. L. L. Deisbeck. No. 1,152,611; Sept. 7; Gaz. vol. 218; p. 84.
- Basin, Catch. A. Hamilton. No. 1,127,235; Feb. 2; Gaz. vol. 211; p. 201.
- Basin, Catch. W. M. Rapp. No. 1,143,915; June 22; Gaz. vol. 215; p. 1088.
- Basin, Settling. E. S. Cobb. No. 1,125,658; Jan. 19; Gaz. vol. 210; p. 946.
- Basket. G. H. Benjamin. No. 1,148,948; Aug. 3; Gaz. vol. 217; p. 164.
- Basket. G. H. Benjamin. No. 1,148,949; Aug. 3; Gaz. vol. 217; p. 164.
- Basket. C. H. Clark. No. 1,137,698; Apr. 27; Gaz. vol. 213; p. 1398.
- Basket. H. R. Garritson. No. 1,153,057; Sept. 7; Gaz. vol. 218; p. 246.
- Basket. H. P. Gross. No. 1,157,528; Oct. 19; Gaz. vol. 219; p. 827.
- Basket and burner, Waste-paper. L. W. Rue. No. 1,147,189; July 20; Gaz. vol. 216; p. 814.
- Basket-blank-making machine. O. E. St. John and F. Norton. No. 1,161,749; Nov. 23; Gaz. vol. 220; p. 1306.
- Basket-bottoms, Machine for heading and boring. W. H. Iridgen. No. 1,139,223; May 11; Gaz. vol. 214; p. 566.
- Basket-carrier. F. Witte. No. 1,123,453; Jan. 5; Gaz. vol. 210; p. 88.
- Basket, Centrifugal. L. G. G. Dibbets. No. 1,160,052; Nov. 9; Gaz. vol. 220; p. 608.
- Basket, Collapsible. A. C. Czelnisniak. No. 1,123,700; Jan. 5; Gaz. vol. 210; p. 171.
- Basket, Collapsible. E. J. Day. No. 1,148,761; Aug. 3; Gaz. vol. 217; p. 101.
- Basket, Collection. A. Furman. No. 1,160,273; Nov. 16; Gaz. vol. 220; p. 740.
- Basket-cover clamp, Fruit. F. R. Scott. No. 1,126,886; Feb. 2; Gaz. vol. 211; p. 78.
- Basket-cover fastener. E. E. Paisley. No. 1,144,376; June 29; Gaz. vol. 215; p. 1280.
- Basket, Egg. A. E. Trentowsky. No. 1,125,213; Jan. 19; Gaz. vol. 210; p. 788.
- Basket, Fish. W. M. McBride. No. 1,151,099; Aug. 31; Gaz. vol. 217; p. 1396.
- Basket-handle-attaching machine. F. B. Townsend. No. 1,151,067; Aug. 24; Gaz. vol. 217; p. 1135.
- Basket machine, Berry. E. Craig. No. 1,132,564; Mar. 23; Gaz. vol. 212; p. 1075.
- Basket machine, Berry. E. Craig. No. 1,135,667; Apr. 13; Gaz. vol. 213; p. 606.
- Basket, Metallic. E. A. Risher. No. 1,157,045; Oct. 19; Gaz. vol. 219; p. 656.
- Basket or receptacle. J. A. Greenlee and H. Wegwart. No. 1,153,906; Sept. 21; Gaz. vol. 218; p. 618.
- Basket or shipping-crate, Folding. J. Hoover. No. 1,125,100; Jan. 19; Gaz. vol. 210; p. 747.
- Basket-runner clamp. H. Wegwart. No. 1,133,416; Mar. 30; Gaz. vol. 212; p. 1421.
- Basket screen, Centrifugal. E. Roberts. No. 1,160,325; Nov. 16; Gaz. vol. 220; p. 758.
- Basket, Split. J. S. Gold. No. 1,163,003; Dec. 7; Gaz. vol. 221; p. 94.
- Baskets and analogous receptacles, Handle-attaching machine for. F. B. Townsend. No. 1,133,201; Mar. 23; Gaz. vol. 212; p. 1309.
- Baskets, Combination carrier and closure for fruit. H. M. Barnes. No. 1,150,732; Aug. 17; Gaz. vol. 217; p. 962.
- Baskets, Manufacturing metal. J. Rizzardi. No. 1,144,668; June 29; Gaz. vol. 215; p. 1378.
- Bassinet-perambulator or the like. F. H. Headley. No. 1,161,212; Nov. 23; Gaz. vol. 220; p. 1119.
- Bath: See—
Galvanizing-bath. Shower-bath.
Nose-bath.
- Bath apparatus. B. F. Adams. No. 1,134,364; Apr. 6; Gaz. vol. 213; p. 102.
- Bath apparatus. J. T. Barlow. No. 1,163,732; Dec. 14; Gaz. vol. 221; p. 394.
- Bath apparatus, Shower. C. F. Dardano. No. 1,145,568; July 6; Gaz. vol. 216; p. 207.
- Bath-blanket, Vibratory electric. H. D. Parker. No. 1,158,834; Nov. 2; Gaz. vol. 220; p. 150.
- Bath body, Shower. F. Bockelman. No. 1,128,097; Feb. 9; Gaz. vol. 211; p. 543.
- Bath-cabinet. J. N. Brandelle. No. 1,157,842; Oct. 26; Gaz. vol. 219; p. 998.
- Bath-cabinet. W. Giedinghagen. No. 1,143,822; June 22; Gaz. vol. 215; p. 1057.
- Bath-cabinet, Electric. H. C. Marrinan and J. Gorman. No. 1,130,916; Mar. 9; Gaz. vol. 212; p. 409.
- Bath-cabinet, Portable. A. M. Curry. No. 1,125,008; Jan. 12; Gaz. vol. 210; p. 680.
- Bath cabinet, Take-down vapor. B. Payeur. No. 1,144,861; June 29; Gaz. vol. 215; p. 1446.
- Bath cabinet, Vapor. H. Y. Wilson. No. 1,128,564; Feb. 16; Gaz. vol. 211; p. 754.
- Bath curtain, Shower. A. E. Lang. No. 1,159,507; Nov. 9; Gaz. vol. 220; p. 415.
- Bath-fixture. C. A. Minnie. No. 1,159,324; Nov. 2; Gaz. vol. 220; p. 318.
- Bath-fixture, Shower. V. F. Jablonski. No. 1,148,968; Aug. 3; Gaz. vol. 217; p. 171.
- Bath-fixture, Shower. A. J. King. No. 1,148,970; Aug. 3; Gaz. vol. 217; p. 172.
- Bath for producing etching-resists and preparing such baths. J. A. Dejeu. No. 1,149,738; Aug. 10; Gaz. vol. 217; p. 550.
- Bath-heater. E. A. Clark. No. 1,148,009; July 27; Gaz. vol. 216; p. 1129.
- Bath-house. R. F. Casey. No. 1,135,764; Apr. 13; Gaz. vol. 213; p. 638.
- Bath or basin waste. W. G. Newton. No. 1,155,085; Sept. 28; Gaz. vol. 218; p. 1052.
- Bath-room fixture, Combination. R. O. Mills. No. 1,143,128; June 15; Gaz. vol. 215; p. 791.
- Bath shower attachment. J. G. Perkins. No. 1,165,705; Dec. 28; Gaz. vol. 221; p. 1164.
- Bath-tub. H. M. Lane. No. 1,161,137; Nov. 23; Gaz. vol. 220; p. 1092.
- Bath-tub. H. M. Lane. No. 1,161,138; Nov. 23; Gaz. vol. 220; p. 1092.
- Bath-tub. A. H. Revell. No. 1,149,687; Aug. 10; Gaz. vol. 217; p. 533.
- Bath-tub. S. A. Stoneback. No. 1,129,612; Feb. 23; Gaz. vol. 211; p. 1158.
- Bath-tub and mat therefor. E. N. Hydeman. No. 1,131,932; Mar. 16; Gaz. vol. 212; p. 798.
- Bath-tub attachment. L. R. Seib. No. 1,166,088; Dec. 28; Gaz. vol. 221; p. 1296.
- Bath-tub attachment. F. M. Wright. No. 1,148,424; July 27; Gaz. vol. 216; p. 1277.
- Bath-tub, Collapsible. A. E. Presson. No. 1,139,576; May 18; Gaz. vol. 214; p. 725.
- Bath-tub, Collapsible and portable. W. R. Ward. No. 1,130,777; Mar. 9; Gaz. vol. 212; p. 361.
- Bath-tub fixture. C. J. Adams and W. M. P. Taylor. No. 1,163,302; Dec. 7; Gaz. vol. 221; p. 198.
- Bath-tub-foot fastener, Bolted. J. S. Jobe. No. 1,135,188; Apr. 13; Gaz. vol. 213; p. 437.
- Bath-tub hand-rail. C. W. Wadsworth. No. 1,147,348; July 20; Gaz. vol. 216; p. 869.
- Bath-tub head-rest. G. L. Murdock. No. 1,163,945; Dec. 14; Gaz. vol. 221; p. 469.
- Bath-tub pattern. W. J. Kohler. No. 1,159,395; Nov. 9; Gaz. vol. 220; p. 375.
- Bath-tub seat. W. D. Cullen. No. 1,145,975; July 13; Gaz. vol. 216; p. 369.
- Bath-tub seat. T. Tanaka. No. 1,144,261; June 22; Gaz. vol. 215; p. 1212.
- Bath-tub spraying attachment. H. Barnes. No. 1,140,347; May 25; Gaz. vol. 214; p. 1031.

Alphabetical list of inventions—Continued.

- Baths, Heating system for constant-temperature. T. B. Freas. No. 1,165,958; Dec. 28; Gaz. vol. 221; p. 1250.
- Bathing-cap. E. A. Guinzburg. No. 1,144,121; June 22; Gaz. vol. 215; p. 1163.
- Bathing-suit. M. and J. B. Kasser. No. 1,135,903; Apr. 13; Gaz. vol. 213; p. 687.
- Baton, Sounding. P. A. Fair. No. 1,150,856; Aug. 24; Gaz. vol. 217; p. 1065.
- Batter-board. R. H. Peck. No. 1,130,926; Mar. 9; Gaz. vol. 212; p. 412.
- Batter-dropper. J. M. Sanders. No. 1,144,918; June 29; Gaz. vol. 215; p. 1464.
- Batter-feeding device. T. G. Perkins. No. 1,124,943; Jan. 12; Gaz. vol. 210; p. 656.
- Batteries, Apparatus for charging storage. D. H. Wilson. No. 1,126,668; Jan. 26; Gaz. vol. 210; p. 1343.
- Batteries, Apparatus for charging storage. D. H. Wilson. No. 1,126,669; Jan. 26; Gaz. vol. 210; p. 1343.
- Batteries, Apparatus for charging storage. D. H. Wilson. No. 1,126,670; Jan. 26; Gaz. vol. 210; p. 1344.
- Batteries, Automatic filler and vent for storage. B. Ford. No. 1,164,992; Dec. 14; Gaz. vol. 221; p. 485.
- Batteries, Charging storage. T. A. Edison. No. 1,143,818; June 22; Gaz. vol. 215; p. 1055.
- Batteries, Charging storage. D. H. Wilson. No. 1,126,665; Jan. 26; Gaz. vol. 210; p. 1342.
- Batteries, Charging storage. D. H. Wilson. No. 1,126,666; Jan. 26; Gaz. vol. 210; p. 1342.
- Batteries, Charging storage. D. H. Wilson. No. 1,126,667; Jan. 26; Gaz. vol. 210; p. 1343.
- Batteries, Combined filling and gas valve for storage. W. E. Holland. No. 1,165,100; Dec. 21; Gaz. vol. 221; p. 913.
- Batteries, during forming process, System of charging and discharging storage. W. A. Turbayne. No. 1,132,986; Mar. 23; Gaz. vol. 212; p. 1232.
- Batteries, Electrolyte for primary. A. P. Manchester. No. 1,137,226; Apr. 27; Gaz. vol. 213; p. 1235.
- Batteries, Electrolyte for secondary. W. Morrison. No. 1,139,214; May 11; Gaz. vol. 214; p. 563.
- Batteries for flash-lights and other purposes, Manufacture of dry. F. D. Harper. No. 1,157,531; Oct. 19; Gaz. vol. 219; p. 828.
- Batteries, Gas-relief device for. C. Staudt. No. 1,149,988; Aug. 10; Gaz. vol. 217; p. 641.
- Batteries, Insulating-support for storage. C. Ambruster. No. 1,146,298; July 13; Gaz. vol. 216; p. 482.
- Batteries, Mechanism for regulating the charging-rate of storage. W. Noble. No. 1,157,028; Oct. 19; Gaz. vol. 219; p. 650.
- Batteries, Negative-pole plate for alkaline storage. W. Morrison. No. 1,139,213; May 11; Gaz. vol. 214; p. 563.
- Batteries, Negative-pole plate for secondary or storage. G. M. Howard. No. 1,156,686; Oct. 12; Gaz. vol. 219; p. 500.
- Batteries of doors, Mechanism for locking. A. A. Page. No. 1,133,659; Mar. 30; Gaz. vol. 212; p. 1510.
- Batteries or accumulators, Plate for electrical or storage. E. Hancock and D. David. No. 1,133,641; Mar. 30; Gaz. vol. 212; p. 1502.
- Batteries, Plate for secondary. J. O. Luthy. No. 1,141,251; June 1; Gaz. vol. 215; p. 56.
- Batteries, Regenerating storage. C. S. Palmer. No. 1,147,261; July 20; Gaz. vol. 216; p. 840.
- Batteries, Regulating-switch for storage. J. H. Gugler and M. Lindem. No. 1,123,275; Jan. 5; Gaz. vol. 210; p. 24.
- Battery: See—
 Dry battery. Secondary or storage battery.
 Electric battery. Storage battery.
 Electrical battery. Storage battery.
 Primary battery. Voltaic body-battery.
- Battery. P. Brown. No. 1,160,491; Nov. 16; Gaz. vol. 220; p. 817.
- Battery. C. F. Burgess. No. 1,162,449; Nov. 30; Gaz. vol. 220; p. 1597.
- Battery-box, Means for holding cells in a. B. Ford. No. 1,142,245; June 8; Gaz. vol. 215; p. 444.
- Battery cam, Stamp. A. B. Foote. No. 1,152,161; Aug. 31; Gaz. vol. 217; p. 1557.
- Battery-case. R. H. Manson. No. 1,146,806; July 20; Gaz. vol. 216; p. 681.
- Battery-cell. A. P. Burritt. No. 1,154,372; Sept. 21; Gaz. vol. 218; p. 780.
- Battery-cell. W. L. Walker. No. 1,152,246; Aug. 31; Gaz. vol. 217; p. 1585.
- Battery cell, Storage. R. N. Chamberlain. No. 1,141,526; June 1; Gaz. vol. 215; p. 157.
- Battery cell, Storage. A. H. Snyder. No. 1,127,936; Feb. 9; Gaz. vol. 211; p. 487.
- Battery-charging system. J. O. Heinze. No. 1,150,116; Aug. 17; Gaz. vol. 217; p. 747.
- Battery-charging system, Storage. F. E. Fanning. No. 1,144,354; June 29; Gaz. vol. 215; p. 1273.
- Battery circuits, Apparatus for testing storage. C. E. Beach. (Reissue.) No. 1,385,858; Jan. 5; Gaz. vol. 210; p. 358.
- Battery connection. C. H. Beck. No. 1,143,485; June 15; Gaz. vol. 215; p. 917.
- Battery-connector. P. J. Fitzgerald. No. 1,148,224; July 27; Gaz. vol. 216; p. 1206.
- Battery-connector. N. Hale. No. 1,130,162; Mar. 2; Gaz. vol. 212; p. 111.
- Battery connector and receptacle. C. H. Harris. No. 1,135,580; Apr. 13; Gaz. vol. 213; p. 573.
- Battery connector, Storage. T. A. Willard. No. 1,150,918; Aug. 24; Gaz. vol. 217; p. 1085.
- Battery connector, Storage. T. A. Willard. No. 1,150,919; Aug. 24; Gaz. vol. 217; p. 1085.
- Battery-depolarizer. M. E. Holmes. No. 1,148,230; July 27; Gaz. vol. 216; p. 1207.
- Battery element and making the same, Storage. J. Redding. No. 1,144,311; June 22; Gaz. vol. 215; p. 1229.
- Battery element, Secondary. E. Handler. No. 1,158,491; Nov. 2; Gaz. vol. 220; p. 27.
- Battery equipments, Controller for lighting-circuits of dynamo. V. C. Apple. No. 1,133,783; Mar. 30; Gaz. vol. 212; p. 1553.
- Battery grid, Storage. W. S. Hutchinson. No. 1,159,035; Nov. 2; Gaz. vol. 220; p. 215.
- Battery-jar. W. L. Walker. No. 1,152,247; Aug. 31; Gaz. vol. 217; p. 1586.
- Battery-light, Portable. L. A. Williamson. No. 1,127,839; Feb. 9; Gaz. vol. 211; p. 454.
- Battery-lighting system, Automatic storage. C. A. Dawley. No. 1,126,184; Jan. 26; Gaz. vol. 210; p. 1169.
- Battery-plate. A. S. Atwater and D. F. Selzer. No. 1,144,628; June 29; Gaz. vol. 215; p. 1365.
- Battery plate, Storage. A. L. Chamberlin. No. 1,135,499; Apr. 13; Gaz. vol. 213; p. 544.
- Battery plates, Machine for making storage. W. A. Crowds. No. 1,145,563; July 6; Gaz. vol. 216; p. 205.
- Battery plates, Treatment of storage. C. C. Carpenter. No. 1,164,464; Dec. 14; Gaz. vol. 221; p. 651.
- Battery regulator, Storage. F. Conrad. No. 1,146,924; July 20; Gaz. vol. 216; p. 722.
- Battery-separator. C. P. Hidden. No. 1,132,183; Mar. 16; Gaz. vol. 212; p. 888.
- Battery-separator and making the same. J. M. Skinner. No. 1,130,640; Mar. 2; Gaz. vol. 212; p. 279.
- Battery-separator construction, Storage. J. N. Davis. No. 1,128,232; Feb. 9; Gaz. vol. 211; p. 589.
- Battery system, Storage. E. A. Halbleib and F. F. Dorsey. No. 1,164,280; Dec. 14; Gaz. vol. 221; p. 585.
- Battery-terminals, Connector-puller for. B. Ford. No. 1,147,932; July 27; Gaz. vol. 216; p. 1102.
- Battery-tester. E. L. Clark. No. 1,148,218; July 27; Gaz. vol. 216; p. 1204.
- Battery-waste, Utilizing. C. E. Tucker. No. 1,148,062; Jan. 27; Gaz. vol. 216; p. 1149.
- Battery-well. C. A. Christofferson and W. M. McClintock. No. 1,158,894; Nov. 2; Gaz. vol. 220; p. 170.
- Battery-well. J. M. Fitzgerald. No. 1,130,808; Mar. 9; Gaz. vol. 212; p. 371.
- Bayonet. F. Koeller. No. 1,150,273; Aug. 17; Gaz. vol. 217; p. 805.
- Bayonet. R. von Frommer. No. 1,150,561; Aug. 17; Gaz. vol. 217; p. 905.
- Beach-forming jetty. M. A. Callahan. No. 1,137,049; Apr. 27; Gaz. vol. 213; p. 1171.
- Bead-adjusting device. J. E. Thropp. No. 1,131,173; Mar. 9; Gaz. vol. 212; p. 495.
- Bead-placing ring. J. R. Gammeter. No. 1,164,804; Dec. 21; Gaz. vol. 221; p. 809.
- Beadling implement. G. E. Morris. No. 1,162,871; Dec. 7; Gaz. vol. 221; p. 48.
- Beam-clamp. O. G. Painter. No. 1,160,194; Nov. 16; Gaz. vol. 220; p. 713.
- Beam connection. L. E. Waterman. No. 1,129,927; Mar. 2; Gaz. vol. 212; p. 33.
- Beam-end protector and anchorage. J. Tuteur. No. 1,137,099; Apr. 27; Gaz. vol. 213; p. 1189.
- Beam-grip, Safety. E. Adler. No. 1,128,277; Feb. 16; Gaz. vol. 211; p. 657.
- Beam, Joinder. J. H. Rizor. No. 1,150,064; Aug. 17; Gaz. vol. 217; p. 728.
- Beam-warping machine. J. T. and E. Brandwood. No. 1,145,857; July 6; Gaz. vol. 216; p. 308.
- Bean cleaner and sorter. D. E. Krause. No. 1,146,174; July 13; Gaz. vol. 216; p. 440.
- Bean-snipper. F. Wegner. No. 1,155,454; Oct. 5; Gaz. vol. 219; p. 45.
- Bean-snipper. F. Wegner. No. 1,155,455; Oct. 5; Gaz. vol. 219; p. 45.
- Bean snipper, String. K. M. Davies. No. 1,136,588; Apr. 20; Gaz. vol. 213; p. 971.
- Bean-sorting machine. A. E. Johnson. No. 1,148,589; Aug. 3; Gaz. vol. 217; p. 38.
- Beans and other legumes, Machine for cutting. P. A. de Lange. No. 1,153,041; Sept. 7; Gaz. vol. 218; p. 241.
- Bearers. E. W. Cooper. No. 1,140,254; May 18; Gaz. vol. 214; p. 964.
- Bearing. O. D. H. Bentley. No. 1,150,485; Aug. 17; Gaz. vol. 217; p. 877.
- Bearing. W. H. Bunting. No. 1,158,369; Oct. 26; Gaz. vol. 219; p. 1182.
- Bearing. B. G. Goble. No. 1,131,634; Mar. 16; Gaz. vol. 212; p. 711.
- Bearing. F. D. Gushurst. No. 1,133,634; Mar. 30; Gaz. vol. 212; p. 1500.
- Bearing. J. L. Hiller. No. 1,157,939; Oct. 26; Gaz. vol. 219; p. 1031.

- Bearing. D. J. Kelly. No. 1,130,674; Mar. 2; Gaz. vol. 212; p. 201.
- Bearing. L. J. Kozub. No. 1,156,695; Oct. 12; Gaz. vol. 219; p. 503.
- Bearing. H. F. Obergfell. No. 1,154,049; Sept. 21; Gaz. vol. 218; p. 668.
- Bearing. N. L. Obrecht and N. Skillman. No. 1,141,974; June 8; Gaz. vol. 215; p. 347.
- Bearing. O. S. Pulliam. No. 1,161,970; Nov. 30; Gaz. vol. 220; p. 1431.
- Bearing. J. Stoddard. No. 1,129,916; Mar. 2; Gaz. vol. 212; p. 29.
- Bearing. E. B. Symons. No. 1,163,045; Dec. 7; Gaz. vol. 221; p. 108.
- Bearing. R. L. Whitney. No. 1,153,986; Sept. 21; Gaz. vol. 218; p. 645.
- Bearing. H. E. Williams. No. 1,138,822; May 11; Gaz. vol. 214; p. 425.
- Bearing. S. G. Wingquist. No. 1,150,844; Aug. 17; Gaz. vol. 217; p. 1003.
- Bearing. C. S. Wright. No. 1,138,167; May 4; Gaz. vol. 214; p. 157.
- Bearing, Adjustable. M. F. Day. No. 1,157,851; Oct. 26; Gaz. vol. 219; p. 1000.
- Bearing, Adjustable side. W. A. Geiger. No. 1,149,361; Aug. 10; Gaz. vol. 217; p. 415.
- Bearing-adjuster. J. T. Hays. No. 1,154,512; Sept. 21; Gaz. vol. 218; p. 825.
- Bearing, Antifriction-. W. Ahrens. No. 1,131,649; Mar. 16; Gaz. vol. 212; p. 695.
- Bearing, Antifriction-. W. Ahrens. No. 1,151,847; Aug. 31; Gaz. vol. 217; p. 1449.
- Bearing, Antifriction-. H. Hess. No. 1,143,116; June 15; Gaz. vol. 215; p. 788.
- Bearing, Antifriction-. W. B. Lashar and T. C. Luce. No. 1,153,868; Sept. 14; Gaz. vol. 218; p. 572.
- Bearing, Antifriction-. O. E. Michaud. No. 1,165,432; Dec. 28; Gaz. vol. 221; p. 1067.
- Bearing, Antifriction-. O. E. Michaud. No. 1,165,434; Dec. 28; Gaz. vol. 221; p. 1068.
- Bearing, Antifriction-. W. W. Neighbour. No. 1,136,161; Apr. 20; Gaz. vol. 213; p. 818.
- Bearing, Antifriction-. J. C. Reber. No. 1,144,245; June 22; Gaz. vol. 215; p. 1207.
- Bearing, Antifriction-. E. H. Wahrheit. No. 1,135,081; Apr. 13; Gaz. vol. 213; p. 400.
- Bearing, Antifriction-. E. S. Woods. No. 1,145,957; July 13; Gaz. vol. 216; p. 362.
- Bearing, Antifriction-. M. A. Yeakley. No. 1,141,675; June 1; Gaz. vol. 215; p. 209.
- Bearing, Antifriction side. E. S. Woods. No. 1,162,428; Nov. 30; Gaz. vol. 220; p. 1589.
- Bearing, Antifriction side. E. S. Woods and A. A. Weigel. No. 1,161,433; Nov. 23; Gaz. vol. 220; p. 1199.
- Bearing, Antifriction wheel-. A. C. Mason and A. T. Sturt. No. 1,163,026; Dec. 7; Gaz. vol. 221; p. 102.
- Bearing, Axially-adjustable ball-. E. G. Munson. No. 1,141,201; June 1; Gaz. vol. 215; p. 39.
- Bearing, Axle-. C. H. Van Nostrand. No. 1,125,775; Jan. 19; Gaz. vol. 210; p. 989.
- Bearing, Axle thrust-. J. A. Perkins. No. 1,124,944; Jan. 12; Gaz. vol. 210; p. 656.
- Bearing, Ball-. C. H. Chapman. No. 1,123,485; Jan. 5; Gaz. vol. 210; p. 98.
- Bearing, Ball-. C. H. Chapman. No. 1,163,212; Dec. 7; Gaz. vol. 221; p. 167.
- Bearing, Ball-. M. E. Clark. No. 1,158,106; Oct. 26; Gaz. vol. 219; p. 1091.
- Bearing, Ball-. G. W. Dobson. No. 1,158,901; Nov. 2; Gaz. vol. 220; p. 172.
- Bearing, Ball-. B. W. Fjellman. No. 1,143,375; June 15; Gaz. vol. 215; p. 880.
- Bearing, Ball-. D. F. Graham. No. 1,135,177; Apr. 13; Gaz. vol. 213; p. 433.
- Bearing, Ball-. H. Hess. No. 1,145,018; July 6; Gaz. vol. 216; p. 15.
- Bearing, Ball-. O. C. Knipe. No. 1,134,463; Apr. 6; Gaz. vol. 213; p. 138.
- Bearing, Ball-. A. Marreck. No. 1,165,992; Dec. 28; Gaz. vol. 221; p. 1262.
- Bearing, Ball-. R. C. Mitchell. No. 1,165,111; Dec. 21; Gaz. vol. 221; p. 918.
- Bearing, Ball-. M. Mossig and E. Sachs. No. 1,146,271; July 13; Gaz. vol. 216; p. 474.
- Bearing, Ball-. C. Neukirch. No. 1,146,272; July 13; Gaz. vol. 216; p. 474.
- Bearing, Ball-. B. G. Nice. No. 1,147,116; July 20; Gaz. vol. 216; p. 789.
- Bearing, Ball-. J. P. Ohnemus. No. 1,146,510; July 13; Gaz. vol. 216; p. 560.
- Bearing, Ball-. C. E. Robson. No. 1,148,336; July 27; Gaz. vol. 216; p. 1247.
- Bearing, Ball-. M. A. Scuterud. No. 1,156,320; Oct. 12; Gaz. vol. 219; p. 368.
- Bearing, Ball-. C. A. Shellberg. No. 1,154,444; Sept. 21; Gaz. vol. 218; p. 803.
- Bearing, Ball-. E. S. Shimer. No. 1,143,590; June 15; Gaz. vol. 215; p. 953.
- Bearing, Ball-. W. H. Strom. No. 1,135,558; Apr. 13; Gaz. vol. 213; p. 566.
- Bearing, Ball-. H. Wiking and C. G. Söderlund. No. 1,136,077; Apr. 20; Gaz. vol. 213; p. 787.
- Bearing, Ball-. S. G. Wingquist. (Reissue.) No. 13,926. June 8; Gaz. vol. 215; p. 636.
- Bearing, Ball-. F. W. Witte. No. 1,161,570; Nov. 23; Gaz. vol. 220; p. 1246.
- Bearing block or brass. A. H. Hardy and S. Davies. No. 1,146,702; July 13; Gaz. vol. 216; p. 624.
- Bearing block or brass. A. H. Hardy and S. Davies. No. 1,146,703; July 13; Gaz. vol. 216; p. 624.
- Bearing, Bolt-. J. L. Beane. No. 1,160,821; Nov. 16; Gaz. vol. 220; p. 936.
- Bearing-box. T. Knight and J. G. Bennetts. No. 1,143,208; June 15; Gaz. vol. 215; p. 821.
- Bearing-box, Adjustable. H. J. Frink. No. 1,132,572; Mar. 23; Gaz. vol. 212; p. 1078.
- Bearing cage, Ball-. M. Gohlke. No. 1,151,581; Aug. 31; Gaz. vol. 217; p. 1357.
- Bearing cage, Roller-. Y. C. Freed. No. 1,147,497; July 20; Gaz. vol. 216; p. 923.
- Bearing cage, Roller-. C. A. Heinzelman. No. 1,125,316; Jan. 19; Gaz. vol. 210; p. 824.
- Bearing, Calf and bull wheel-. R. C. Baker. No. 1,155,539; Oct. 5; Gaz. vol. 219; p. 76.
- Bearing, Center-. C. F. Hinton. No. 1,162,925; Dec. 7; Gaz. vol. 221; p. 66.
- Bearing, Combined roller and ball. F. H. Risley. No. 1,149,542; Aug. 10; Gaz. vol. 217; p. 478.
- Bearing, Combined thrust and journal. O. Banner. No. 1,158,424; Nov. 2; Gaz. vol. 220; p. 4.
- Bearing, Connecting-rod. W. C. Moore. No. 1,154,650; Sept. 28; Gaz. vol. 218; p. 903.
- Bearing construction. S. L. Goldman. No. 1,160,592; Nov. 16; Gaz. vol. 220; p. 852.
- Bearing, Crank-pin. G. Bourcier. No. 1,157,975; Oct. 26; Gaz. vol. 219; p. 1045.
- Bearing device, Roller-. J. C. Barber. No. 1,135,982; Apr. 20; Gaz. vol. 213; p. 756.
- Bearing, Divided ball and roller. J. H. K. Kirner. No. 1,145,999; July 13; Gaz. vol. 216; p. 378.
- Bearing, Double-acting ball thrust-. K. J. von Kajdacsy. No. 1,152,995; Sept. 7; Gaz. vol. 218; p. 226.
- Bearing, Electrically-insulated. C. E. Wieselgreen. No. 1,152,680; Sept. 7; Gaz. vol. 218; p. 111.
- Bearing, Floating. L. S. Bache. No. 1,132,759; Mar. 23; Gaz. vol. 212; p. 1148.
- Bearing, Floating. C. L. Barker. No. 1,124,256; Jan. 12; Gaz. vol. 210; p. 409.
- Bearing for axles, Antifriction-. W. C. Lipe and H. D. Weed. No. 1,123,904; Jan. 5; Gaz. vol. 210; p. 241.
- Bearing for axles, Antifriction-. W. C. Lipe and H. D. Weed. No. 1,160,626; Nov. 16; Gaz. vol. 220; p. 866.
- Bearing for car-trucks, Spring-bolster. J. A. Turner. No. 1,141,436; June 1; Gaz. vol. 215; p. 126.
- Bearing for cars, Roller center-. J. C. Barber. No. 1,130,956; Mar. 9; Gaz. vol. 212; p. 421.
- Bearing for centrifugal machines. M. H. Barker. No. 1,146,392; July 13; Gaz. vol. 216; p. 516.
- Bearing for centrifugal separators. H. D. Morton. No. 1,124,165; Jan. 5; Gaz. vol. 210; p. 329.
- Bearing for connecting-rods. L. E. Ohr. No. 1,139,216; May 11; Gaz. vol. 214; p. 564.
- Bearing for conveyer-rollers. J. A. Alvey. No. 1,141,514; June 1; Gaz. vol. 215; p. 153.
- Bearing for conveyer-rollers. J. A. Alvey. No. 1,141,515; June 1; Gaz. vol. 215; p. 153.
- Bearing for display-cabinet doors, Antifriction-. H. Blitz. No. 1,128,653; Feb. 16; Gaz. vol. 211; p. 784.
- Bearing for drill-bit cutting-disks, Adjustable. H. R. Hughes. No. 1,163,540; Dec. 7; Gaz. vol. 221; p. 281.
- Bearing for drill-spindles, Thrust-. T. H. Lovejoy. No. 1,135,198; Apr. 13; Gaz. vol. 213; p. 440.
- Bearing for electromagnetic sparking machines. G. Henold. No. 1,130,904; Mar. 9; Gaz. vol. 212; p. 405.
- Bearing for fast-running wheels. F. A. Stewart. No. 1,161,905; Nov. 30; Gaz. vol. 220; p. 1408.
- Bearing for flow-meters. L. A. Sheldon. No. 1,157,331; Oct. 19; Gaz. vol. 219; p. 757.
- Bearing for jacks, Adjustable. T. B. Reed. No. 1,129,014; Feb. 16; Gaz. vol. 211; p. 912.
- Bearing for peanut-pickers. T. M. Lilliston. No. 1,156,910; Oct. 19; Gaz. vol. 219; p. 608.
- Bearing for pitmen, Self-adjusting. L. M. Browning. No. 1,151,339; Aug. 24; Gaz. vol. 217; p. 1227.
- Bearing for power-transmission mechanism, Adjustable. T. H. Blair. No. 1,153,285; Sept. 14; Gaz. vol. 218; p. 362.
- Bearing for propeller-shafts, &c., Waterproof self-lubricating. J. P. Johnson. No. 1,153,624; Sept. 14; Gaz. vol. 218; p. 485.
- Bearing for railway-cars, Roller side. E. G. Busse and E. A. Le Beau. No. 1,148,145; July 27; Gaz. vol. 216; p. 1179.
- Bearing for road-rollers, Transmission-. A. W. Aitken. No. 1,132,544; Mar. 23; Gaz. vol. 212; p. 1068.
- Bearing for roof-hooks. W. E. Watts. No. 1,132,411; Mar. 16; Gaz. vol. 212; p. 972.
- Bearing for rotating cylinder-engines, Connecting-rod. W. E. Minue. No. 1,138,001; May 4; Gaz. vol. 214; p. 97.
- Bearing for swings. G. Enarson. No. 1,147,081; July 20; Gaz. vol. 216; p. 777.
- Bearing for trolley-wheels, Antifriction-. H. C. Adam. No. 1,136,200; Apr. 20; Gaz. vol. 213; p. 832.

Alphabetical list of inventions—Continued.

- Bearing for trucks, Swing-link. S. A. Bullock. No. 1,150,741; Aug. 17; Gaz. vol. 217; p. 965.
- Bearing for vehicle-wheels, Antifriction-. J. E. Meylan. No. 1,128,617; Feb. 16; Gaz. vol. 211; p. 772.
- Bearing for worm-shafts, Yieldable thrust-. E. P. Ashton. No. 1,152,689; Sept. 7; Gaz. vol. 218; p. 114.
- Bearing, Friction-. R. Linn. No. 1,124,754; Jan. 12; Gaz. vol. 210; p. 588.
- Bearing, Friction-reducing. M. U. Bernheim. No. 1,136,089; Apr. 20; Gaz. vol. 213; p. 791.
- Bearing-guard. F. B. Foley. No. 1,161,465; Nov. 23; Gaz. vol. 220; p. 1210.
- Bearing-housing. S. M. Kintner. No. 1,138,666; May 11; Gaz. vol. 214; p. 368.
- Bearing, Hydraulic thrust-. O. Jacobsen. No. 1,157,873; Oct. 26; Gaz. vol. 219; p. 1008.
- Bearing indicator, Shaft-. A. Y. Edwards. No. 1,133,462; Mar. 30; Gaz. vol. 212; p. 1437.
- Bearing, Insulated roller-. C. E. Wieselgreen. No. 1,152,681; Sept. 7; Gaz. vol. 218; p. 111.
- Bearing, Journal-box. A. Christianson. No. 1,127,963; Feb. 9; Gaz. vol. 211; p. 497.
- Bearing, Knife-edge. J. Hopkinson. No. 1,146,794; July 20; Gaz. vol. 216; p. 676.
- Bearing, Lateral-motion roller-. E. W. Webb. No. 1,127,133; Feb. 2; Gaz. vol. 211; p. 166.
- Bearing-lubricating device, Ring. B. G. Badham. No. 1,152,872; Sept. 7; Gaz. vol. 218; p. 181.
- Bearing, Motor-. F. R. Kunkel. No. 1,166,134; Dec. 28; Gaz. vol. 221; p. 1314.
- Bearing mounting, Ball-. W. Reynolds. No. 1,158,719; Nov. 2; Gaz. vol. 220; p. 107.
- Bearing reciprocating device, Eccentric ball-. F. Prinz. No. 1,162,512; Nov. 30; Gaz. vol. 220; p. 1619.
- Bearing, Resilient neck-. J. R. Cox. No. 1,135,502; Apr. 13; Gaz. vol. 213; p. 546.
- Bearing, Roller-. E. B. and W. N. Barnhardt. No. 1,156,516; Oct. 12; Gaz. vol. 219; p. 440.
- Bearing, Roller-. F. Beemer. No. 1,149,889; Aug. 10; Gaz. vol. 217; p. 605.
- Bearing, Roller-. H. L. Bock. No. 1,138,180; May 4; Gaz. vol. 214; p. 161.
- Bearing, Roller-. H. L. Bock. No. 1,144,751; June 29; Gaz. vol. 215; p. 1408.
- Bearing, Roller-. R. F. Bower. No. 1,125,452; Jan. 19; Gaz. vol. 210; p. 874.
- Bearing, Roller-. R. F. Bower. No. 1,163,884; Dec. 14; Gaz. vol. 221; p. 448.
- Bearing, Roller-. J. H. Carr. No. 1,139,161; May 11; Gaz. vol. 214; p. 545.
- Bearing, Roller-. S. Z. de Ferranti. No. 1,131,612; Mar. 9; Gaz. vol. 212; p. 648.
- Bearing, Roller-. G. W. Dobson. No. 1,150,507; Aug. 17; Gaz. vol. 217; p. 885.
- Bearing, Roller-. W. E. Graham. No. 1,160,594; Nov. 16; Gaz. vol. 220; p. 853.
- Bearing, Roller-. N. B. Hani. No. 1,165,594; Dec. 28; Gaz. vol. 221; p. 1123.
- Bearing, Roller-. C. A. Heinzelman. No. 1,125,527; Jan. 19; Gaz. vol. 210; p. 899.
- Bearing, Roller-. J. F. King. No. 1,139,192; May 11; Gaz. vol. 214; p. 557.
- Bearing, Roller-. A. L. Larson. No. 1,160,293; Nov. 16; Gaz. vol. 220; p. 747.
- Bearing, Roller-. B. S. Lawson. No. 1,159,964; Nov. 9; Gaz. vol. 220; p. 580.
- Bearing, Roller-. C. S. Lockwood. No. 1,144,485; June 29; Gaz. vol. 215; p. 1317.
- Bearing, Roller-. O. E. Michaud. No. 1,165,433; Dec. 28; Gaz. vol. 221; p. 1068.
- Bearing, Roller-. J. Newmann. No. 1,159,072; Nov. 2; Gaz. vol. 220; p. 228.
- Bearing, Roller-. O. S. Pulliam and J. Allison. No. 1,147,433; July 20; Gaz. vol. 216; p. 901.
- Bearing, Roller-. J. E. Shafer. No. 1,152,663; Sept. 7; Gaz. vol. 218; p. 105.
- Bearing, Roller-. H. Vanderbeek. No. 1,144,451; June 29; Gaz. vol. 215; p. 1305.
- Bearing, Roller-. A. K. Whitmer. No. 1,150,565; Aug. 17; Gaz. vol. 217; p. 906.
- Bearing, Roller-. W. F. Wittich. No. 1,141,743; June 1; Gaz. vol. 215; p. 232.
- Bearing, Roller-. K. Wolf. No. 1,158,880; Nov. 2; Gaz. vol. 220; p. 165.
- Bearing, Roller side. L. W. Barber and E. W. Webb. No. 1,128,400; Feb. 16; Gaz. vol. 211; p. 696.
- Bearing, Roller side. E. G. Busse and E. A. Le Beau. No. 1,148,144; July 27; Gaz. vol. 216; p. 1179.
- Bearing, Roller side. C. B. Patch. No. 1,156,094; Oct. 12; Gaz. vol. 219; p. 294.
- Bearing, Roller side. E. H. Schmidt. No. 1,145,851; July 6; Gaz. vol. 216; p. 306.
- Bearing, Roller side. A. Stucki. No. 1,135,413; Apr. 13; Gaz. vol. 213; p. 515.
- Bearing-rollers. L. A. Abbott, Jr. No. 1,143,479; June 15; Gaz. vol. 215; p. 916.
- Bearing-scraper. M. R. Lackey. No. 1,128,155; Feb. 9; Gaz. vol. 211; p. 564.
- Bearing, Self-adjusting ball-. S. G. Wingquist. (Re-issue.) No. 13,869; Jan. 12; Gaz. vol. 210; p. 691.
- Bearing, Self-adjusting pivotal. A. Sundh. No. 1,132,745; Mar. 23; Gaz. vol. 212; p. 1143.
- Bearing, Self-lubricating. L. S. Bache. No. 1,132,758; Mar. 23; Gaz. vol. 212; p. 1148.
- Bearing, Self-lubricating. G. O. Smalley. No. 1,153,647; Sept. 14; Gaz. vol. 218; p. 492.
- Bearing, Self-lubricating shaft-. I. E. Farr. No. 1,156,071; Oct. 12; Gaz. vol. 219; p. 286.
- Bearing, Shaft-. W. Barnes, Jr. No. 1,154,227; Sept. 21; Gaz. vol. 218; p. 727.
- Bearing, Shaft-. M. U. Bernheim. No. 1,147,136; July 20; Gaz. vol. 216; p. 796.
- Bearing, Shaft-. W. Boehler. No. 1,158,778; Nov. 2; Gaz. vol. 220; p. 129.
- Bearing, Shaft-. W. P. Evans. No. 1,132,002; Mar. 16; Gaz. vol. 212; p. 823.
- Bearing, Shaft-. H. Hess. No. 1,151,588; Aug. 31; Gaz. vol. 217; p. 1359.
- Bearing, Shaft-. J. S. Sorensen. No. 1,146,740; July 13; Gaz. vol. 216; p. 637.
- Bearing, Shaft or roll. D. R. Bowen. No. 1,158,436; Nov. 2; Gaz. vol. 220; p. 8.
- Bearing, Side. W. A. Bock. No. 1,153,671; Sept. 14; Gaz. vol. 218; p. 500.
- Bearing, Side. E. A. Laughlin. No. 1,131,252; Mar. 9; Gaz. vol. 212; p. 523.
- Bearing, Side. E. A. Laughlin. No. 1,133,294; Mar. 30; Gaz. vol. 212; p. 1378.
- Bearing, Side. E. A. Laughlin. No. 1,163,020; Dec. 7; Gaz. vol. 221; p. 100.
- Bearing, Side. C. B. Patch. No. 1,155,436; Oct. 5; Gaz. vol. 219; p. 39.
- Bearing solutions, Apparatus for treating solid-. L. C. Trent. No. 1,152,769; Sept. 7; Gaz. vol. 218; p. 142.
- Bearing spacer, Ball-. F. Winkler. No. 1,155,185; Sept. 28; Gaz. vol. 218; p. 1086.
- Bearing, Thrust-. E. U. Gibbs. No. 1,153,777; Sept. 14; Gaz. vol. 218; p. 538.
- Bearing, Thrust-. M. Gohlke. No. 1,137,263; Apr. 27; Gaz. vol. 213; p. 1250.
- Bearing, Thrust-. E. Ruegger. No. 1,131,739; Mar. 16; Gaz. vol. 212; p. 726.
- Bearing, Thrust ball-. B. W. Fjellman. No. 1,144,115; June 22; Gaz. vol. 215; p. 1161.
- Bearing, Truck-retaining center-. J. M. Coleman. No. 1,147,210; July 20; Gaz. vol. 216; p. 823.
- Bearing, Turret-mount trunnion-. W. Messinger. No. 1,161,501; Nov. 23; Gaz. vol. 220; p. 1222.
- Bearing, Type-bar antifriction-. A. T. Brown. No. 1,159,645; Nov. 9; Gaz. vol. 220; p. 465.
- Bearing, Vertical. W. J. A. London. No. 1,157,644; Oct. 19; Gaz. vol. 219; p. 862.
- Bearing, Water-lubricated. G. W. Roberts. No. 1,126,284; Jan. 26; Gaz. vol. 210; p. 1203.
- Bearing, Wear-compensating. L. D. Bragassa. No. 1,124,282; Jan. 12; Gaz. vol. 210; p. 420.
- Bearing with ball-retaining device, Ball-. E. Sachs. No. 1,147,685; July 20; Gaz. vol. 216; p. 989.
- Bearing with thrust-collar, Roller-. C. S. Lockwood. No. 1,144,484; June 29; Gaz. vol. 215; p. 1317.
- Bearings and the like, Apparatus for determining centers of. A. V. Espinal. No. 1,146,416; July 13; Gaz. vol. 216; p. 524.
- Bearings and the like, Tool for aligning and finishing shaft-. A. A. Martell. No. 1,135,460; Apr. 13; Gaz. vol. 213; p. 531.
- Bearings, Apparatus for making raceway-walls for. I. A. George. No. 1,139,666; May 18; Gaz. vol. 214; p. 758.
- Bearings, Assembling ball-. F. W. Gurney. No. 1,153,066; Sept. 7; Gaz. vol. 218; p. 248.
- Bearings, Cage for antifriction-. H. Hess. No. 1,151,589; Aug. 31; Gaz. vol. 217; p. 1359.
- Bearings, Cage for ball-. W. L. Batt. No. 1,144,989; July 6; Gaz. vol. 216; p. 4.
- Bearings, Cage for ball-. H. Hess and G. M. Henrie. No. 1,145,019; July 6; Gaz. vol. 216; p. 15.
- Bearings, Device for cooling and lubricating. G. E. Pouliot. No. 1,166,255; Dec. 28; Gaz. vol. 221; p. 1360.
- Bearings, Divided cage for roller-. C. S. Lockwood. No. 1,137,010; Apr. 27; Gaz. vol. 213; p. 1157.
- Bearings, Forming. N. L. Obrecht. No. 1,129,116; Feb. 23; Gaz. vol. 211; p. 983.
- Bearings, Means for adjusting ball-. S. R. Parkes. No. 1,165,537; Dec. 28; Gaz. vol. 221; p. 1103.
- Bearings, Oil-retaining device for. O. P. Fritchle. No. 1,166,201; Dec. 28; Gaz. vol. 221; p. 1340.
- Bearings, Spring for centrifugal-separator. C. K. Salisbury. No. 1,158,726; Nov. 2; Gaz. vol. 220; p. 142.
- Bearings subjected to axial pressure, Ball-retainer for ball-. H. A. Olsson. No. 1,135,044; Apr. 13; Gaz. vol. 213; p. 388.
- Beater. E. W. Ladd. No. 1,165,423; Dec. 28; Gaz. vol. 221; p. 1064.
- Beater. H. J. Meader. No. 1,134,344; Apr. 6; Gaz. vol. 213; p. 95.
- Beater or agitator. B. E. Chattuck. No. 1,141,420; June 1; Gaz. vol. 215; p. 120.
- Beater-roll. R. A. North. No. 1,144,665; June 29; Gaz. vol. 215; p. 1377.
- Beater-roll attachment. R. A. North. No. 1,144,666; June 29; Gaz. vol. 215; p. 1377.
- Beating-engine. E. A. Jones. No. 1,140,830; May 25; Gaz. vol. 214; p. 1200.

Alphabetical list of inventions—Continued.

- Beating-engine. J. E. Warren. No. 1,160,964; Nov. 16; Gaz. vol. 220; p. 986.
- Beating-machine, Apparatus for measuring or determining the viscosity of paper stuff in the. A. B. Green. No. 1,125,017; Jan. 12; Gaz. vol. 210; p. 682.
- Beauty-mark. F. Frankel. No. 1,140,975; May 25; Gaz. vol. 214; p. 1253.
- Bed. A. M. Bonhard. No. 1,156,833; Oct. 12; Gaz. vol. 219; p. 550.
- Bed. W. A. Davis and A. Greenwood. No. 1,142,876; June 15; Gaz. vol. 215; p. 703.
- Bed. H. Hlpkoe. No. 1,151,014; Aug. 24; Gaz. vol. 217; p. 1117.
- Bed. J. Mackin. No. 1,131,147; Mar. 9; Gaz. vol. 212; p. 487.
- Bed. S. A. Stoneback. No. 1,132,633; Mar. 23; Gaz. vol. 212; p. 1102.
- Bed. R. J. Whittaker. No. 1,143,342; June 15; Gaz. vol. 215; p. 868.
- Bed, &c. G. Bennett. No. 1,146,123; July 13; Gaz. vol. 216; p. 422.
- Bed, Adjustable. J. H. Hendrick. No. 1,156,359; Oct. 12; Gaz. vol. 219; p. 383.
- Bed and baggage-carrier, Combined. C. J. Ericson. No. 1,150,106; Aug. 17; Gaz. vol. 217; p. 744.
- Bed and davenport, Combined. N. W. Williams. No. 1,136,857; Apr. 20; Gaz. vol. 213; p. 1005.
- Bed and divan or sofa, Convertible. J. Luppino. No. 1,139,785; May 18; Gaz. vol. 214; p. 799.
- Bed and seat, Combined. J. D. Bell. No. 1,166,315; Dec. 28; Gaz. vol. 221; p. 1381.
- Bed and sofa, Combined. D. T. Owen and E. N. Brown. No. 1,150,299; Aug. 17; Gaz. vol. 217; p. 813.
- Bed attachment. M. K. Ewald. No. 1,143,618; June 22; Gaz. vol. 215; p. 988.
- Bed attachment. N. P. Jensen. No. 1,155,241; Sept. 28; Gaz. vol. 218; p. 1103.
- Bed-bottom. E. Lehmann. No. 1,137,220; Apr. 27; Gaz. vol. 213; p. 1233.
- Bed-bottom. A. Magyar. No. 1,158,254; Oct. 26; Gaz. vol. 219; p. 1141.
- Bed-bottom. R. C. Odell. No. 1,157,798; Oct. 26; Gaz. vol. 219; p. 982.
- Bed-bottom-fabric-assembling machine. W. J. Pine. No. 1,141,140; June 1; Gaz. vol. 215; p. 17.
- Bed-bottom, Spring. J. H. Hirsch. No. 1,135,797; Apr. 13; Gaz. vol. 213; p. 649.
- Bed-bottom, Spring. W. F. Kunkel. No. 1,150,867; Aug. 24; Gaz. vol. 217; p. 1008.
- Bed-bottom, Spring. J. P. Leggett. No. 1,126,036; Jan. 26; Gaz. vol. 210; p. 1113.
- Bed-bottom, Spring. F. M. Lovering. No. 1,148,241; July 27; Gaz. vol. 216; p. 1212.
- Bed, Cedar-chest. H. Siskin. No. 1,142,537; June 8; Gaz. vol. 215; p. 547.
- Bed, Compartment-. W. R. Fillmore and E. Boillot. No. 1,144,960; June 29; Gaz. vol. 215; p. 1478.
- Bed, Concealable. C. O. Pelletier. No. 1,123,363; Jan. 5; Gaz. vol. 210; p. 57.
- Bed construction. B. B. Blood. No. 1,161,921; Nov. 30; Gaz. vol. 220; p. 1414.
- Bed construction, Spring-. C. D. and P. D. Miller and J. O. Gadberry. No. 1,139,050; May 11; Gaz. vol. 214; p. 506.
- Bed corner-fastening. G. H. Williams. No. 1,161,177; Nov. 23; Gaz. vol. 220; p. 1106.
- Bed corner-lock. F. G. Kapelman. No. 1,132,274; Mar. 16; Gaz. vol. 212; p. 923.
- Bed, Couch-. C. L. Plunkett. No. 1,148,797; Aug. 3; Gaz. vol. 217; p. 113.
- Bed, Couch-. G. F. Sisbower. No. 1,126,894; Feb. 2; Gaz. vol. 217; p. 81.
- Bed, Davenport-. E. N. Brown. No. 1,144,293; June 22; Gaz. vol. 215; p. 1223.
- Bed, Davenport-. H. and N. M. Freedman. No. 1,131,359; Mar. 9; Gaz. vol. 212; p. 559.
- Bed-davenport. A. C. Klopping. No. 1,143,974; June 22; Gaz. vol. 215; p. 1109.
- Bed, Disappearing. J. Langan. No. 1,147,028; July 20; Gaz. vol. 216; p. 759.
- Bed fabric. J. Burns. No. 1,128,581; Feb. 16; Gaz. vol. 211; p. 760.
- Bed fabric. C. H. Frederick. No. 1,152,500; Sept. 7; Gaz. vol. 218; p. 42.
- Bed fabric. C. H. Frederick. No. 1,152,621; Sept. 7; Gaz. vol. 218; p. 88.
- Bed fabric, Machine for making. G. B. Smith. No. 1,153,266; Sept. 14; Gaz. vol. 218; p. 356.
- Bed, Folding. C. Bender. No. 1,155,199; Sept. 28; Gaz. vol. 218; p. 1091.
- Bed, Folding. J. I. Higgins. No. 1,137,402; Apr. 27; Gaz. vol. 213; p. 1301.
- Bed, Folding. S. Nielsen. No. 1,146,898; July 20; Gaz. vol. 216; p. 712.
- Bed, Folding. M. Szinak. No. 1,157,453; Oct. 19; Gaz. vol. 219; p. 800.
- Bed, Folding metal. E. M. S. Thomesen. No. 1,140,212; May 18; Gaz. vol. 214; p. 950.
- Bed-frame. A. McKnight. No. 1,144,661; June 29; Gaz. vol. 215; p. 1375.
- Bed, Fresh-air. R. Spencer and C. C. Rland. No. 1,144,075; June 22; Gaz. vol. 215; p. 1145.
- Bed-guard. M. A. Peters. No. 1,146,095; July 13; Gaz. vol. 216; p. 412.
- Bed, Hammock-. W. C. Clarke. No. 1,152,006; Aug. 31; Gaz. vol. 217; p. 1502.
- Bed, Hospital-. G. Payne. No. 1,132,614; Mar. 23; Gaz. vol. 212; p. 1095.
- Bed-joint. G. B. Pettit. No. 1,154,803; Sept. 28; Gaz. vol. 218; p. 954.
- Bed-lounge, Folding. A. A. Knosher. No. 1,157,700; Oct. 26; Gaz. vol. 219; p. 949.
- Bed or cot. C. D. Brouette and G. P. McEntire. No. 1,139,099; May 11; Gaz. vol. 214; p. 524.
- Bed-pan. A. Y. Crissey. No. 1,124,709; Jan. 12; Gaz. vol. 210; p. 573.
- Bed-pan. I. Poindexter. No. 1,156,172; Oct. 12; Gaz. vol. 219; p. 320.
- Bed-pan, Collapsible. P. R. Wesley and A. D. Lamont. No. 1,132,056; Mar. 16; Gaz. vol. 212; p. 843.
- Bed-pan cushion. A. R. Logan and M. A. L. Barreille. No. 1,163,835; Dec. 14; Gaz. vol. 221; p. 432.
- Bed, Portable camp-. H. L. Fisher. No. 1,143,374; June 15; Gaz. vol. 215; p. 880.
- Bed-rail fastening, Reversible. F. Sandt. No. 1,152,123; Aug. 31; Gaz. vol. 217; p. 1544.
- Bed, Resilient. C. D. and P. D. Miller and J. O. Gadberry. No. 1,139,892; May 18; Gaz. vol. 214; p. 837.
- Bed-rest for invalids, Non-slipping. C. W. McInecke. No. 1,151,894; Aug. 31; Gaz. vol. 217; p. 1466.
- Bed, Sofa-. C. J. Conser. No. 1,139,641; May 18; Gaz. vol. 214; p. 748.
- Bed, Sofa-. D. F. Dyke. No. 1,127,874; Feb. 9; Gaz. vol. 211; p. 466.
- Bed, Sofa-. W. M. Fischhoff. No. 1,140,368; May 25; Gaz. vol. 214; p. 1038.
- Bed, Sofa-. G. A. Holst. No. 1,126,010; Jan. 26; Gaz. vol. 210; p. 1104.
- Bed, Sofa-. H. J. Jacobs. No. 1,148,019; July 27; Gaz. vol. 216; p. 1132.
- Bed, Sofa-. W. P. Seng and D. F. Dyke. No. 1,136,173; Apr. 20; Gaz. vol. 213; p. 822.
- Bed-spring. C. A. Chalker. No. 1,135,877; Apr. 13; Gaz. vol. 213; p. 678.
- Bed-spring. O. L. Durst. No. 1,131,346; Mar. 9; Gaz. vol. 212; p. 555.
- Bed-spring. J. Farago. No. 1,144,183; June 22; Gaz. vol. 215; p. 1185.
- Bed-spring. E. L. Farrow and C. R. Barker. No. 1,143,179; June 15; Gaz. vol. 215; p. 811.
- Bed-spring. W. E. Frank. No. 1,163,905; Dec. 14; Gaz. vol. 221; p. 455.
- Bed-spring. M. Haas. No. 1,144,123; June 22; Gaz. vol. 215; p. 1163.
- Bed-spring. J. Peterson. No. 1,139,573; May 18; Gaz. vol. 214; p. 725.
- Bed-spring. G. G. Powers. No. 1,154,936; Sept. 28; Gaz. vol. 218; p. 999.
- Bed-spring. G. F. Sisbower and L. E. Pittoni. No. 1,138,986; May 11; Gaz. vol. 214; p. 482.
- Bed-spring. G. Wetterhold. No. 1,132,892; Mar. 23; Gaz. vol. 212; p. 1196.
- Bed, Spring-. T. O'Toole. No. 1,165,280; Dec. 21; Gaz. vol. 221; p. 976.
- Bed, Spring-. T. J. Ridgway. No. 1,130,541; Mar. 2; Gaz. vol. 212; p. 247.
- Bed, Spring-. J. Roever. No. 1,126,869; Feb. 2; Gaz. vol. 211; p. 73.
- Bed, Spring-. J. Roever. No. 1,126,870; Feb. 2; Gaz. vol. 211; p. 73.
- Bed-spring attachment. F. B. Weborg. No. 1,163,051; Dec. 7; Gaz. vol. 221; p. 110.
- Bed-spring fabric. H. F. Hager. No. 1,161,661; Nov. 23; Gaz. vol. 220; p. 1276.
- Bed-spring fabric. H. F. Hager. No. 1,161,662; Nov. 23; Gaz. vol. 220; p. 1277.
- Bed-spring fabric. G. B. Smith. No. 1,149,793; Aug. 10; Gaz. vol. 217; p. 570.
- Bed-spring frame. F. G. Kapelman. No. 1,134,050; Mar. 30; Gaz. vol. 212; p. 1642.
- Bed-spring support. W. H. Eyster. No. 1,159,913; Nov. 9; Gaz. vol. 220; p. 562.
- Bed-spring tightener. H. La Roe. No. 1,138,491; May 4; Gaz. vol. 214; p. 270.
- Bed-springs, End bar for. C. Ehrlich. No. 1,158,464; Nov. 2; Gaz. vol. 220; p. 18.
- Bed structure. F. N. Palmer. No. 1,160,442; Nov. 16; Gaz. vol. 220; p. 798.
- Bed structure, Sleeping. K. J. Berggren. No. 1,132,906; Mar. 23; Gaz. vol. 212; p. 1202.
- Bed-support. S. J. Wester. No. 1,156,731; Oct. 12; Gaz. vol. 219; p. 515.
- Bed-table. L. Ribar. No. 1,140,397; May 25; Gaz. vol. 214; p. 1049.
- Bed, Trundle-. W. E. Frank. No. 1,133,848; Mar. 30; Gaz. vol. 212; p. 1577.
- Bed, Wall-. F. M. Caler. No. 1,164,594; Dec. 14; Gaz. vol. 221; p. 694.
- Beds, Bug-trap for. C. Mecco. No. 1,132,789; Mar. 23; Gaz. vol. 212; p. 1160.
- Beds, Cover-holder for children's. C. L. Wiley. No. 1,130,781; Mar. 9; Gaz. vol. 212; p. 362.
- Beds, Folding end section for. W. P. Seng. No. 1,126,303; Jan. 26; Gaz. vol. 210; p. 1211.

Alphabetical list of inventions—Continued.

- Beds, Folding-crib attachment for. G. F. Sommer. No. 1,146,031; July 13; Gaz. vol. 216; p. 390.
- Beds, Holding arrangement for children's. J. W. Thayer. No. 1,156,381; Oct. 12; Gaz. vol. 219; p. 392.
- Beds or cots, Canopy for. A. J. H. Reld. No. 1,134,009; Mar. 30; Gaz. vol. 212; p. 1627.
- Beds, Supporting means for disappearing. E. C. Pitcher. No. 1,132,616; Mar. 23; Gaz. vol. 212; p. 1095.
- Bedclothes-clamp. W. Fillmore and E. Boillot. No. 1,142,559; June 8; Gaz. vol. 215; p. 555.
- Bedclothes-fastener. W. L. Dennison. No. 1,147,616; July 20; Gaz. vol. 216; p. 965.
- Bedpost-bracket. A. Sondack. No. 1,155,764; Oct. 5; Gaz. vol. 219; p. 152.
- Bedstead. P. H. Voelker and K. Kimmich. No. 1,133,899; Mar. 30; Gaz. vol. 212; p. 1594.
- Bedstead attachment. J. Barбора. No. 1,133,696; Mar. 30; Gaz. vol. 212; p. 1524.
- Bedstead construction. D. K. Hall. No. 1,128,134; Feb. 9; Gaz. vol. 211; p. 557.
- Bedstead-corner. M. B. Okun. No. 1,126,068; Jan. 29; Gaz. vol. 210; p. 1125.
- Bedstead corner-bracket. H. V. Lough. No. 1,124,156; Jan. 5; Gaz. vol. 210; p. 326.
- Bedstead corner-fastening. G. W. Comee. No. 1,156,059; Oct. 12; Gaz. vol. 219; p. 281.
- Bedstead corner-fastening. D. F. Dyke. No. 1,137,260; Apr. 27; Gaz. vol. 213; p. 1249.
- Bedstead crib attachment. L. H. Williamson. No. 1,147,062; July 20; Gaz. vol. 216; p. 771.
- Bedstead, Disconnectible metal. P. Jarnuszkiewicz, L. Chmielewski, S. Szczesny, and L. Chybczyński. No. 1,162,365; Nov. 30; Gaz. vol. 220; p. 1568.
- Bedstead, Iron. W. P. Winne. No. 1,141,164; June 1; Gaz. vol. 215; p. 26.
- Bedstead-joint. J. Duke. No. 1,125,670; Jan. 19; Gaz. vol. 210; p. 951.
- Bedstead, Metal. J. M. Adams. No. 1,130,873; Mar. 9; Gaz. vol. 212; p. 393.
- Bedstead, Metal. J. M. Adams. No. 1,153,590; Sept. 14; Gaz. vol. 218; p. 475.
- Beef-carasses, Treating. G. H. Miller. No. 1,160,937; Nov. 16; Gaz. vol. 220; p. 975.
- Beefsteak-defibrizing machine. G. W. Wemple. No. 1,165,217; Dec. 21; Gaz. vol. 221; p. 955.
- Beefsteak-roller. L. G. Rude. No. 1,129,232; Feb. 23; Gaz. vol. 211; p. 1023.
- Beehive. F. Danzenbaker. No. 1,154,176; Sept. 21; Gaz. vol. 218; p. 710.
- Beehive. E. Hains. No. 1,131,834; Mar. 16; Gaz. vol. 212; p. 764.
- Beehive. L. Mollart. No. 1,159,785; Nov. 9; Gaz. vol. 220; p. 516.
- Beehive. J. S. Pinn. No. 1,152,216; Aug. 31; Gaz. vol. 217; p. 1576.
- Beehive. S. Rosato. No. 1,135,623; Apr. 13; Gaz. vol. 213; p. 589.
- Beehive. M. Tenyák. No. 1,144,878; June 29; Gaz. vol. 215; p. 1453.
- Beehive. G. P. Wood. No. 1,146,044; July 13; Gaz. vol. 216; p. 395.
- Beer, Brewing. E. Hinterlach. No. 1,152,415; Sept. 7; Gaz. vol. 218; p. 12.
- Beer-brewing apparatus. B. A. Koppitz and P. Sherrer. No. 1,127,899; Feb. 9; Gaz. vol. 211; p. 475.
- Beer-carton. O. C. Fenlason. No. 1,125,828; Jan. 19; Gaz. vol. 210; p. 1007.
- Beer-carton. O. C. Fenlason. No. 1,125,829; Jan. 19; Gaz. vol. 210; p. 1007.
- Beer, Charging. O. M. Lamsens. No. 1,137,149; Apr. 27; Gaz. vol. 213; p. 1208.
- Beer-clearing apparatus. E. R. Curtis and J. W. Huxley. No. 1,130,479; Mar. 2; Gaz. vol. 212; p. 224.
- Beer-cooler, Sanitary. A. T. Mahr and C. Miller. No. 1,127,057; Feb. 2; Gaz. vol. 211; p. 139.
- Beer-dispensing apparatus. F. Schneiblé. No. 1,133,405; Mar. 30; Gaz. vol. 212; p. 1417.
- Beer-drawing apparatus. C. Sahlander. No. 1,137,718; Apr. 27; Gaz. vol. 213; p. 1405.
- Beer-fermenting tanks, Treating cement. F. W. Rickers. No. 1,162,515; Nov. 30; Gaz. vol. 220; p. 1620.
- Beer, Making. C. Rach. No. 1,163,453; Dec. 7; Gaz. vol. 221; p. 252.
- Beer, Making. C. Rach. No. 1,163,454; Dec. 7; Gaz. vol. 221; p. 252.
- Beer-pipe and beer-coll cleaner. M. E. Ray. No. 1,151,968; Aug. 31; Gaz. vol. 217; p. 1490.
- Beer-pipe-cleaning apparatus. F. Peroutek. No. 1,129,598; Feb. 23; Gaz. vol. 211; p. 1153.
- Beer-racking apparatus. S. and N. Schlagen. No. 1,155,008; Sept. 28; Gaz. vol. 218; p. 1022.
- Beer-racking apparatus. S. and N. Schlagen. No. 1,155,009; Sept. 28; Gaz. vol. 218; p. 1023.
- Beet and grain drill attachment. B. Newton. No. 1,134,894; Apr. 6; Gaz. vol. 213; p. 290.
- Beet-cleaner. A. Gudmundsen. No. 1,153,381; Sept. 14; Gaz. vol. 218; p. 398.
- Beet-puller. W. S. Graham. No. 1,149,644; Aug. 10; Gaz. vol. 217; p. 519.
- Beet-puller. R. Henry. No. 1,160,405; Nov. 16; Gaz. vol. 220; p. 785.
- Beet puller, topper, and loader. G. M. and C. Feuerstein. No. 1,124,406; Jan. 12; Gaz. vol. 210; p. 463.
- Beet pulling and topping machine. V. Anthenill. No. 1,148,492; Aug. 3; Gaz. vol. 217; p. 3.
- Beet pulling and topping machine. P. Pederson and G. T. Gulkerson. No. 1,140,847; May 25; Gaz. vol. 214; p. 1205.
- Beet-topper. D. T. Blevins and A. B. Randall. No. 1,135,988; Apr. 20; Gaz. vol. 213; p. 759.
- Beet-topper. W. R. Gardner. No. 1,135,173; Apr. 13; Gaz. vol. 213; p. 432.
- Beet-topper. T. Slawson. No. 1,149,411; Aug. 10; Gaz. vol. 217; p. 433.
- Beet-topper. E. R. Talley. No. 1,124,972; Jan. 12; Gaz. vol. 210; p. 666.
- Beet-topping machine. V. O. Deyl. No. 1,165,763; Dec. 28; Gaz. vol. 221; p. 1184.
- Beet-topping machine. H. S. Russell. No. 1,166,083; Dec. 28; Gaz. vol. 221; p. 1204.
- Bell and burglar-alarm. Door. M. R. Schaffer. No. 1,130,436; Mar. 2; Gaz. vol. 212; p. 208.
- Bell and buzzer, Combined. O. H. Stuewe and L. M. Jansen. No. 1,162,953; Dec. 7; Gaz. vol. 221; p. 76.
- Bell and illuminating-sign, Combined push-button-controlled door. G. Kimball. No. 1,163,349; Dec. 7; Gaz. vol. 221; p. 216.
- Bell and mail-receiver, Combined door. J. A. McDonald. No. 1,154,422; Sept. 21; Gaz. vol. 218; p. 795.
- Bell, Automatic ship's. J. E. Hudson. No. 1,143,270; June 15; Gaz. vol. 215; p. 842.
- Bell, Diving. W. D. Slisson. No. 1,134,963; Apr. 6; Gaz. vol. 213; p. 313.
- Bell, Electric. C. F. Mead and L. E. Richmond. No. 1,145,253; July 6; Gaz. vol. 216; p. 98.
- Bell, Electric. F. S. Tucker. No. 1,123,818; Jan. 5; Gaz. vol. 210; p. 212.
- Bell, Electric alarm. G. A. Huber. No. 1,141,187; June 1; Gaz. vol. 215; p. 34.
- Bell hoist, Furnace. T. E. Brown. No. 1,127,351; Feb. 2; Gaz. vol. 211; p. 238.
- Bell, Hotel call. K. Kawano and R. Nishimoto. No. 1,125,851; Jan. 19; Gaz. vol. 210; p. 1014.
- Bell-ringing device. H. D. Elliott. No. 1,136,781; Apr. 20; Gaz. vol. 213; p. 1038.
- Bell-ringing device. E. Reibichung. No. 1,147,545; July 20; Gaz. vol. 216; p. 939.
- Bell-ringing device, Mechanical. H. von Reppert. No. 1,124,525; Jan. 12; Gaz. vol. 210; p. 506.
- Bell, Signal. J. Charland and R. A. O'Connor. No. 1,157,508; Oct. 19; Gaz. vol. 219; p. 819.
- Belly-band attachment. A. McKenzie. No. 1,123,566; Jan. 5; Gaz. vol. 210; p. 126.
- Belt. A. S. Keen. No. 1,147,869; July 27; Gaz. vol. 216; p. 1079.
- Bolt. A. G. Kolbe. No. 1,147,874; July 27; Gaz. vol. 216; p. 1081.
- Bolt. C. S. Smith. No. 1,134,238; Apr. 6; Gaz. vol. 213; p. 57.
- Bolt. W. Starrett. No. 1,135,734; Apr. 13; Gaz. vol. 213; p. 628.
- Belt and belt-fastener. W. L. Bliss. No. 1,157,499; Oct. 19; Gaz. vol. 219; p. 818.
- Belt and buckle. M. Hoffenberg. No. 1,146,161; July 13; Gaz. vol. 216; p. 435.
- Belt and clutch shifting mechanism. Safety. R. T. Boal. No. 1,152,781; Sept. 7; Gaz. vol. 218; p. 146.
- Belt and garment, Combined. L. Feldman. No. 1,147,225; July 20; Gaz. vol. 216; p. 828.
- Belt, Apparel. W. A. Jacobson. No. 1,141,663; June 1; Gaz. vol. 215; p. 205.
- Belt-applying device. A. N. and F. O. Spangelo. No. 1,158,737; Nov. 2; Gaz. vol. 220; p. 114.
- Belt, Catamenial. E. Johnson. No. 1,155,659; Oct. 5; Gaz. vol. 219; p. 116.
- Belt clasp or buckle. T. F. Pryor, Jr. No. 1,133,666; Mar. 30; Gaz. vol. 212; p. 1513.
- Belt-cleaner. R. S. Gibson. No. 1,163,001; Dec. 7; Gaz. vol. 221; p. 94.
- Belt-cleaning device. Driving. R. J. Harrington. No. 1,165,404; Dec. 28; Gaz. vol. 221; p. 1058.
- Belt, Composite leather. C. E. Carpenter. No. 1,160,040; Nov. 9; Gaz. vol. 220; p. 605.
- Belt, Composite leather. C. E. Carpenter. No. 1,160,041; Nov. 9; Gaz. vol. 220; p. 605.
- Belt concentrator, Automatic variable-rifle. H. Eggers. No. 1,150,257; Aug. 17; Gaz. vol. 217; p. 799.
- Belt-connecting means. C. Matthaël. No. 1,134,146; Apr. 6; Gaz. vol. 213; p. 22.
- Belt connection. T. W. Morgan. No. 1,147,037; July 20; Gaz. vol. 216; p. 762.
- Belt, Conveyer. C. F. Schepmann. No. 1,151,218; Aug. 24; Gaz. vol. 217; p. 1188.
- Belt-dressing. A. G. Rakevich. No. 1,137,450; Apr. 27; Gaz. vol. 213; p. 1317.
- Belt-driven machinery, Control means for. E. C. Leach. No. 1,164,729; Dec. 21; Gaz. vol. 221; p. 782.
- Belt, Driving. C. H. Gray. No. 1,129,666; Feb. 23; Gaz. vol. 211; p. 1174.
- Belt-end attachment. R. Sato. No. 1,165,132; Dec. 21; Gaz. vol. 221; p. 926.
- Belt-fastener. E. H. Bristol. No. 1,146,398; July 13; Gaz. vol. 216; p. 518.

- Belt-fastener. E. H. Bristol. No. 1,146,472; July 13; Gaz. vol. 216; p. 547.
- Belt-fastener. J. C. Conn. No. 1,125,477; Jan. 19; Gaz. vol. 210; p. 881.
- Belt-fastener. F. M. Linderman. No. 1,137,409; Apr. 27; Gaz. vol. 213; p. 1303.
- Belt-fastener. F. M. Linderman. No. 1,137,410; Apr. 27; Gaz. vol. 213; p. 1304.
- Belt-fasteners, Ganging hooks for. M. W. Edger. No. 1,163,901; Dec. 14; Gaz. vol. 221; p. 453.
- Belt-fasteners, Tool for clenching. J. K. Diamond. No. 1,128,421; Feb. 16; Gaz. vol. 211; p. 704.
- Belt-fastening. P. Kennedy. No. 1,134,139; Apr. 6; Gaz. vol. 213; p. 20.
- Belt, Garment-supporting. L. C. Neff. No. 1,151,708; Aug. 31; Gaz. vol. 217; p. 1399.
- Belt-guide. A. G. Burgeson. No. 1,134,103; Apr. 6; Gaz. vol. 213; p. 7.
- Belt-guide. J. Dick. No. 1,134,947; Apr. 6; Gaz. vol. 213; p. 308.
- Belt-guiding device. R. H. Weathersby and W. B. Clark. No. 1,135,744; Apr. 13; Gaz. vol. 213; p. 632.
- Belt-hook. A. Schneider. No. 1,163,780; Dec. 14; Gaz. vol. 221; p. 412.
- Belt-hooks from a metallic strand, Forming pointed blanks for. D. T. Graham. No. 1,138,211; May 4; Gaz. vol. 214; p. 171.
- Belt, Hot-water. A. C. Beringer. No. 1,159,160; Nov. 2; Gaz. vol. 220; p. 260.
- Belt-idler. W. J. Armstrong. No. 1,156,386; Oct. 12; Gaz. vol. 219; p. 395.
- Belt-making machine. A. D. Wright. No. 1,123,459; Jan. 5; Gaz. vol. 210; p. 90.
- Belt-manipulator. E. E. Jones. No. 1,161,775; Nov. 23; Gaz. vol. 220; p. 1315.
- Belt-polishing machine. E. F. Thoren. No. 1,139,386; May 11; Gaz. vol. 214; p. 622.
- Belt-sander. C. L. Mattison. No. 1,159,060; Nov. 2; Gaz. vol. 220; p. 225.
- Belt-sanding machine. C. L. Mattison. No. 1,124,311; Jan. 12; Gaz. vol. 210; p. 429.
- Belt-saving device, Twisted. J. Kaplan. No. 1,143,281; June 15; Gaz. vol. 215; p. 846.
- Belt-shifter. F. M. Furber. No. 1,136,116; Apr. 20; Gaz. vol. 213; p. 801.
- Belt-shifter. L. T. Hagan. No. 1,160,881; Nov. 16; Gaz. vol. 220; p. 955.
- Belt-shifter. C. S. Harris and A. H. Chromasta. No. 1,160,403; Nov. 16; Gaz. vol. 220; p. 785.
- Belt-shifter. H. W. Schatz. No. 1,125,404; Jan. 19; Gaz. vol. 210; p. 858.
- Belt-shifter. J. Smedman. No. 1,140,773; May 25; Gaz. vol. 214; p. 1179.
- Belt-shifter for coal-jiggers. M. Clarke. No. 1,163,216; Dec. 7; Gaz. vol. 221; p. 169.
- Belt-shifter lever mechanism. C. M. Howg. No. 1,146,166; July 13; Gaz. vol. 216; p. 437.
- Belt-shifters, Safety-lock for. G. J. Willett. No. 1,165,738; Dec. 28; Gaz. vol. 221; p. 1176.
- Belt-shifting device. J. Smedman. No. 1,140,774; May 25; Gaz. vol. 214; p. 1179.
- Belt-shifting mechanism. E. A. Balsley. No. 1,131,195; Mar. 9; Gaz. vol. 212; p. 504.
- Belt spacer, Cross-. L. Ladinski. No. 1,144,767; June 29; Gaz. vol. 215; p. 1414.
- Belt-support. F. F. Knothe. No. 1,165,979; Dec. 28; Gaz. vol. 221; p. 1258.
- Belt-tightener. M. L. Cannon. No. 1,142,874; June 15; Gaz. vol. 215; p. 702.
- Belt-tightener, X. Caverno. No. 1,163,891; Dec. 14; Gaz. vol. 221; p. 450.
- Belt-tightener. T. F. Philippi. No. 1,125,880; Jan. 19; Gaz. vol. 210; p. 1024.
- Belt-tightener. J. R. Vosburgh. No. 1,124,562; Jan. 12; Gaz. vol. 210; p. 520.
- Belt, Traction-. C. L. Tolles. No. 1,135,559; Apr. 13; Gaz. vol. 213; p. 566.
- Belt, Traction-. C. L. Tolles. No. 1,146,537; July 13; Gaz. vol. 216; p. 569.
- Belt, Tractor-. C. L. Tolles. No. 1,135,560; Apr. 13; Gaz. vol. 213; p. 566.
- Belt-trimming machine. E. F. Thoren. No. 1,125,602; Jan. 19; Gaz. vol. 210; p. 925.
- Belt, Waist-. L. Rechtschaffen. No. 1,139,310; May 11; Gaz. vol. 214; p. 594.
- Belts, Manufacturing fabric. J. S. Kaufman. No. 1,133,036; Mar. 23; Gaz. vol. 212; p. 1251.
- Belts, Manufacturing textile. C. Kochmann and J. G. Seidal. No. 1,163,417; Dec. 7; Gaz. vol. 221; p. 238.
- Belting. K. W. Jappe. No. 1,165,780; Dec. 28; Gaz. vol. 221; p. 1190.
- Belting and making the same. J. S. Young. No. 1,148,883; Aug. 3; Gaz. vol. 217; p. 142.
- Belting, Leather. E. A. Usina. No. 1,127,549; Feb. 9; Gaz. vol. 211; p. 350.
- Belting, Metallic link. W. O. Stark. No. 1,146,905; July 20; Gaz. vol. 216; p. 715.
- Belting, Sandpaper. C. H. Driver. No. 1,126,423; Jan. 26; Gaz. vol. 210; p. 1253.
- Belting, Tool or appliance for use in making joints in driving. F. Gunn. No. 1,144,122; June 22; Gaz. vol. 215; p. 1163.
- Bench: See—
- Convertible bench.
- Draw-bench.
- Gas-bench.
- Life-saving bench.
- Park-bench.
- Piano-bench.
- Vise-bench.
- Washbench.
- Washing-machine bench.
- Work-bench.
- Bench bracket and vise. E. A. Schade. No. 1,131,869; Mar. 16; Gaz. vol. 212; p. 775.
- Bench-clamp and planing-vise. E. J. Aschinger. No. 1,152,365; Aug. 31; Gaz. vol. 217; p. 1629.
- Bench-dog. I. A. Church. No. 1,132,703; Mar. 23; Gaz. vol. 212; p. 1127.
- Bench-dog. H. P. Hansen. No. 1,161,858; Nov. 30; Gaz. vol. 220; p. 1391.
- Bench-leg. G. W. Bailey. No. 1,141,083; May 25; Gaz. vol. 214; p. 1287.
- Bending apparatus. H. Aderer. No. 1,141,858; June 1; Gaz. vol. 215; p. 268.
- Bending-machine. A. Dean. No. 1,129,650; Feb. 23; Gaz. vol. 211; p. 1169.
- Bending structural shapes, Mechanism for. E. Y. Moore. No. 1,139,434; May 11; Gaz. vol. 214; p. 640.
- Bending-tool. J. N. Scism. No. 1,159,806; Nov. 9; Gaz. vol. 220; p. 524.
- Bends, Making return. F. Heuser. No. 1,153,224; Sept. 14; Gaz. vol. 218; p. 341.
- Benzol-purifying apparatus. H. Koppers. No. 1,157,988; Oct. 26; Gaz. vol. 219; p. 1049.
- Berry-box. J. F. Adams. No. 1,130,236; Mar. 2; Gaz. vol. 212; p. 137.
- Berry-box. J. W. Rose. No. 1,147,551; July 20; Gaz. vol. 216; p. 941.
- Berry-box, Sanitary. L. W. Obenchain and D. B. De Long. No. 1,160,990; Nov. 16; Gaz. vol. 220; p. 995.
- Berth, Ship's. M. Wainola. No. 1,149,100; Aug. 3; Gaz. vol. 217; p. 215.
- Berth, Ship's. P. E. White. No. 1,142,472; June 8; Gaz. vol. 215; p. 525.
- Berth-ventilator. R. W. Burnett. No. 1,127,858; Feb. 9; Gaz. vol. 211; p. 460.
- Beta-acetyl-alkyl-dialkylamins. G. Merling, O. Chrzeszczinski, and H. Köhler. No. 1,126,549; Jan. 26; Gaz. vol. 210; p. 1300.
- Beveling instrument. C. E. Norris. No. 1,126,263; Jan. 26; Gaz. vol. 210; p. 1197.
- Beveling-machine. A. H. Prenzler. No. 1,128,359; Feb. 16; Gaz. vol. 211; p. 683.
- Beverage. W. C. Kaiser and G. F. Stroebel. No. 1,164,287; Dec. 14; Gaz. vol. 221; p. 587.
- Beverage and preparing same. W. O. Kaiser and G. F. Stroebel. No. 1,146,171; July 13; Gaz. vol. 216; p. 439.
- Beverage compound and producing same, Vegetable. E. M. Potter. No. 1,150,303; Aug. 17; Gaz. vol. 217; p. 815.
- Beverage-dispensing apparatus. A. Landgrebe. No. 1,137,495; Apr. 27; Gaz. vol. 213; p. 1332.
- Beverage extract, Preparing powdered. J. L. Kellogg. No. 1,149,066; Aug. 3; Gaz. vol. 217; p. 206.
- Beverage extracts, Manufacture of. J. L. Kellogg. No. 1,165,415; Dec. 28; Gaz. vol. 221; p. 1062.
- Beverage-mixer. L. M. Parent. No. 1,141,207; June 1; Gaz. vol. 215; p. 42.
- Beverage, Non-alcoholic. A. P. Stitzel. No. 1,149,700; Aug. 10; Gaz. vol. 217; p. 538.
- Beverage-producing material and making same. H. Barnhard. No. 1,150,733; Aug. 17; Gaz. vol. 217; p. 963.
- Beverage, Unfermented. W. O. Kaiser and G. F. Stroebel. No. 1,164,193; Dec. 14; Gaz. vol. 221; p. 555.
- Beverages, and products produced thereby, Process and apparatus for preparing. J. E. Bloom. No. 1,162,212; Nov. 30; Gaz. vol. 220; p. 1515.
- Beverages, Manufacturing hopped. R. Wahl. No. 1,149,704; Aug. 10; Gaz. vol. 217; p. 538.
- Bias-cutting machine. W. A. Gordon. No. 1,148,162; July 27; Gaz. vol. 216; p. 1185.
- Bib. A. D. Sylvie. No. 1,133,194; Mar. 23; Gaz. vol. 212; p. 1307.
- Bicycle. M. S. Logan. No. 1,139,045; May 11; Gaz. vol. 214; p. 505.
- Bicycle. A. J. Nadreau. No. 1,143,850; June 22; Gaz. vol. 215; p. 1067.
- Bicycle and motor-cycle attachment. F. L. Eiler. No. 1,126,964; Feb. 2; Gaz. vol. 211; p. 105.
- Bicycle attachment. A. D. Meiselbach. No. 1,155,324; Sept. 28; Gaz. vol. 218; p. 1130.
- Bicycle attachment. G. G. Rupert. No. 1,130,933; Mar. 9; Gaz. vol. 212; p. 414.
- Bicycle-boat. J. J. Lehotsky. No. 1,126,037; Jan. 26; Gaz. vol. 210; p. 1113.
- Bicycle crank-hangers, Making. H. G. Carlson. No. 1,165,316; Dec. 21; Gaz. vol. 221; p. 987.
- Bicycle folding step. F. P. Fentress. No. 1,125,281; Jan. 19; Gaz. vol. 210; p. 813.
- Bicycle-forks, Truss-forming attachment for. J. E. McCartha. No. 1,159,596; Nov. 9; Gaz. vol. 220; p. 447.
- Bicycle-frame. E. W. Morley. No. 1,148,707; Aug. 3; Gaz. vol. 217; p. 80.
- Bicycle handle-bars, Making. C. E. Weaver. No. 1,151,914; Aug. 31; Gaz. vol. 217; p. 1472.
- Bicycle-hub. F. S. Ellett. No. 1,143,261; June 15; Gaz. vol. 215; p. 840.

Alphabetical list of inventions—Continued.

- Bicycle or motor-cycle saddle-clamp. H. C. Eckenroad. No. 1,147,007; July 20; Gaz. vol. 216; p. 752.
- Bicycle or motor-cycle support. W. R. Green. No. 1,149,438; Aug. 10; Gaz. vol. 217; p. 443.
- Bicycle parcel-carrier. W. M. Apple. No. 1,134,577; Apr. 6; Gaz. vol. 213; p. 180.
- Bicycle prop or stand. T. Ferella. No. 1,163,592; Dec. 7; Gaz. vol. 221; p. 300.
- Bicycle propulsion. N. Spanovic. No. 1,141,364; June 1; Gaz. vol. 215; p. 99.
- Bicycle seat-supporter. L. Krumpelmann. No. 1,145,493; July 6; Gaz. vol. 216; p. 181.
- Bicycle side car. F. C. Edwards and C. J. Hunter. No. 1,146,058; July 13; Gaz. vol. 216; p. 399.
- Bicycle-stand. W. R. Green. No. 1,127,431; Feb. 9; Gaz. vol. 211; p. 309.
- Bicycle-stand. W. L. McGrath and G. W. Clark. No. 1,130,094; Mar. 2; Gaz. vol. 212; p. 88.
- Bicycle-stand. H. W. Walk. No. 1,159,139; Nov. 2; Gaz. vol. 220; p. 251.
- Bicycle transmission. T. J. Cribbs. No. 1,154,292; Sept. 21; Gaz. vol. 218; p. 750.
- Bicycle-wheels, Spring-mounting for. A. Kuehn. No. 1,130,828; Mar. 9; Gaz. vol. 212; p. 378.
- Bicycles, Adjustable rear seat for. J. W. Kelly. No. 1,144,550; June 29; Gaz. vol. 215; p. 1339.
- Bicycles and the like, Fork for. C. F. Budroe. No. 1,144,753; June 29; Gaz. vol. 215; p. 1408.
- Bicycles, Fork-spreader for. W. J. Edwards. No. 1,135,271; Apr. 13; Gaz. vol. 213; p. 465.
- Bicycles, Motor attachment for. G. S. Schunk. No. 1,158,311; Oct. 26; Gaz. vol. 219; p. 1163.
- Bicycles, Motor attachment for. H. Tideman. No. 1,165,467; Dec. 28; Gaz. vol. 221; p. 1079.
- Bicycles, motor-cycles, or the like, Steering-wheel lock for. G. Croston. No. 1,146,053; July 13; Gaz. vol. 216; p. 398.
- Bicycles or the like, Spring-frame for. J. E. Dukelow. No. 1,136,870; Apr. 20; Gaz. vol. 213; p. 1070.
- Bifurcating-machine. R. L. Wilcox and G. F. Byam. No. 1,147,993; July 27; Gaz. vol. 216; p. 1123.
- Bilge-water extractor. S. S. Jamison. No. 1,159,946; Nov. 9; Gaz. vol. 220; p. 574.
- Bill and holder for the same. T. O'Donnell. No. 1,149,778; Aug. 10; Gaz. vol. 217; p. 565.
- Bill-book, check-book, and pass-book, Combined. B. C. Hart. No. 1,148,964; Aug. 3; Gaz. vol. 217; p. 170.
- Billiard and pool cue, Spring. J. J. Teague. No. 1,157,909; Oct. 26; Gaz. vol. 219; p. 1022.
- Billiard and pool table. E. T. Burrowes. No. 1,125,461; Jan. 19; Gaz. vol. 210; p. 876.
- Billiard and pool tables, Combined reinforce and spot for. I. Nathan. No. 1,143,222; June 15; Gaz. vol. 215; p. 827.
- Billiard-chalk holder. C. W. Harper. No. 1,133,471; Mar. 30; Gaz. vol. 212; p. 1439.
- Billiard-cue. D. M. Campbell. No. 1,147,705; July 27; Gaz. vol. 216; p. 1022.
- Billiard-cue. A. F. Dunnebacke and C. H. Haag. No. 1,145,127; July 6; Gaz. vol. 216; p. 54.
- Billiard-cue. G. L. and J. A. Pope. No. 1,163,035; Dec. 7; Gaz. vol. 221; p. 105.
- Billiard-cue. C. R. Smith. No. 1,160,335; Nov. 16; Gaz. vol. 220; p. 701.
- Billiard-cue. W. E. Smith. No. 1,141,587; June 1; Gaz. vol. 215; p. 178.
- Billiard-cue. D. F. Whitecomb. No. 1,155,980; Oct. 5; Gaz. vol. 219; p. 227.
- Billiard-cue attachment. E. J. Waters. No. 1,152,866; Sept. 7; Gaz. vol. 218; p. 179.
- Billiard-cue tip. J. R. Clark. No. 1,164,781; Dec. 21; Gaz. vol. 221; p. 801.
- Billiard-cue tip. F. Haynes. No. 1,153,491; Sept. 14; Gaz. vol. 218; p. 438.
- Billiard-cue tip, Detachable. W. Rutherford. No. 1,123,807; Jan. 5; Gaz. vol. 210; p. 208.
- Billiard-cue-tip fastener. L. Clarlell. No. 1,139,340; May 11; Gaz. vol. 214; p. 605.
- Billiard-cues and the like, Tip-forming device for. M. Rohlig. No. 1,123,472; Jan. 5; Gaz. vol. 210; p. 94.
- Billiard-cues and the like, Tip-forming device for. M. Rohlig. No. 1,159,891; Nov. 9; Gaz. vol. 220; p. 553.
- Billiard-cushion. H. Z. Cobb. No. 1,138,933; May 11; Gaz. vol. 214; p. 463.
- Billiard or pool table. E. T. Burrowes. No. 1,125,460; Jan. 19; Gaz. vol. 210; p. 876.
- Billiard or pool table bed. E. T. Burrowes. No. 1,125,459; Jan. 19; Gaz. vol. 210; p. 876.
- Billiard-table. W. Campton and J. A. McKay. No. 1,161,111; Nov. 23; Gaz. vol. 220; p. 1081.
- Billiard-table. G. C. Drouot. No. 1,158,793; Nov. 2; Gaz. vol. 220; p. 135.
- Billiard-table. A. F. Hjort. No. 1,157,940; Oct. 26; Gaz. vol. 219; p. 1032.
- Billiard-table rail-cloth protector. F. F. Scherzinger. No. 1,137,668; Apr. 27; Gaz. vol. 213; p. 1389.
- Billiard-tables and the like, Controlling device for. L. Bernard. No. 1,125,640; Jan. 19; Gaz. vol. 210; p. 938.
- Bin: See—
- Dispensing-bin. Storage-bin.
- Grocer's bin.
- Bin. H. Karp. No. 1,156,294; Oct. 12; Gaz. vol. 219; p. 360.
- Binder. A. M. Barrett. No. 1,147,698; July 27; Gaz. vol. 216; p. 1019.
- Binder. R. J. Davis. No. 1,156,467; Oct. 12; Gaz. vol. 219; p. 425.
- Binder. C. L. Dingsens. No. 1,161,632; Nov. 23; Gaz. vol. 220; p. 1267.
- Binder. H. G. Duval. No. 1,130,893; Mar. 9; Gaz. vol. 212; p. 401.
- Binder. H. S. Jones. No. 1,129,206; Feb. 23; Gaz. vol. 211; p. 1014.
- Binder. W. G. Jones. No. 1,155,067; Sept. 28; Gaz. vol. 218; p. 1044.
- Binder. W. G. Jones. No. 1,155,068; Sept. 28; Gaz. vol. 218; p. 1044.
- Binder. L. P. Keveney and C. F. Collinge. No. 1,135,697; Apr. 13; Gaz. vol. 213; p. 616.
- Binder. W. Sparks. No. 1,140,079; May 18; Gaz. vol. 214; p. 904.
- Binder and perforator, Loose-leaf. A. Falfer. No. 1,142,032; June 8; Gaz. vol. 215; p. 370.
- Binder and mower truck. W. B. Weese and L. M. Crawford. No. 1,163,608; Dec. 7; Gaz. vol. 221; p. 306.
- Binder attachment. B. C. Drake. No. 1,165,370; Dec. 21; Gaz. vol. 221; p. 1007.
- Binder attachment. W. M. Nicol. No. 1,130,757; Mar. 9; Gaz. vol. 212; p. 354.
- Binder-back for loose-leaf books, Locking. E. H. Elder. No. 1,128,268; Feb. 9; Gaz. vol. 211; p. 602.
- Binder, Catalogue. W. A. Vliet. No. 1,126,138; Jan. 26; Gaz. vol. 210; p. 1151.
- Binder device. G. P. Wigginton. No. 1,150,471; Aug. 17; Gaz. vol. 217; p. 872.
- Binder, Flat-opening. A. B. Plushkell. No. 1,130,333; Mar. 2; Gaz. vol. 212; p. 171.
- Binder for loose-leaf books. J. T. A. Knight. No. 1,128,689; Feb. 16; Gaz. vol. 211; p. 796.
- Binder for loose-leaf ledgers. F. H. Montgomery. No. 1,129,110; Feb. 23; Gaz. vol. 211; p. 981.
- Binder-frame and lock therefor, Loose-leaf. G. W. Thomas. No. 1,164,031; Dec. 14; Gaz. vol. 221; p. 500.
- Binder, Ledger. A. Dom. No. 1,123,708; Jan. 5; Gaz. vol. 210; p. 174.
- Binder-loading attachment. G. H. Pallady. No. 1,154,542; Sept. 21; Gaz. vol. 218; p. 835.
- Binder, Loose-leaf. C. B. Alexander. No. 1,165,305; Dec. 21; Gaz. vol. 221; p. 983.
- Binder, Loose-leaf. F. E. Cardy. No. 1,140,442; May 25; Gaz. vol. 214; p. 1065.
- Binder, Loose-leaf. T. Chambers. No. 1,142,021; June 8; Gaz. vol. 215; p. 366.
- Binder, Loose-leaf. L. M. Cook. No. 1,161,619; Nov. 23; Gaz. vol. 220; p. 1263.
- Binder, Loose-leaf. F. W. Eckelmeyer. No. 1,150,750; Aug. 17; Gaz. vol. 217; p. 968.
- Binder, Loose-leaf. E. H. Elder. No. 1,163,601; Dec. 7; Gaz. vol. 221; p. 303.
- Binder Loose-leaf. E. H. Elder. No. 1,165,766; Dec. 28; Gaz. vol. 221; p. 1185.
- Binder, Loose-leaf. E. H. Elder. No. 1,165,767; Dec. 28; Gaz. vol. 221; p. 1186.
- Binder, Loose-leaf. J. R. Gilda. No. 1,128,441; Feb. 16; Gaz. vol. 211; p. 711.
- Binder, Loose-leaf. J. C. Hedges. No. 1,138,104; May 4; Gaz. vol. 214; p. 135.
- Binder, Loose-leaf. J. G. Magin. No. 1,151,024; Aug. 24; Gaz. vol. 217; p. 1121.
- Binder, Loose-leaf. J. L. McMillan. No. 1,126,811; Feb. 2; Gaz. vol. 211; p. 52.
- Binder, Loose-leaf. J. P. Mentzer. No. 1,137,012; Apr. 27; Gaz. vol. 213; p. 1158.
- Binder, Loose-leaf. L. M. Morden. No. 1,129,891; Mar. 2; Gaz. vol. 212; p. 20.
- Binder, Loose-leaf. L. M. Morden. No. 1,163,766; Dec. 14; Gaz. vol. 221; p. 407.
- Binder, Loose-leaf. G. A. Olsen. No. 1,145,432; July 6; Gaz. vol. 216; p. 159.
- Binder, Loose-leaf. J. B. Ryan. No. 1,129,233; Feb. 23; Gaz. vol. 211; p. 1023.
- Binder, Loose-leaf. C. Sayers. No. 1,153,713; Sept. 14; Gaz. vol. 218; p. 517.
- Binder, Loose-leaf. J. Schade, Jr. No. 1,140,534; May 25; Gaz. vol. 214; p. 1101.
- Binder, Loose-leaf. J. Schade, Jr. No. 1,157,184; Oct. 19; Gaz. vol. 219; p. 705.
- Binder, Loose-leaf. J. Schade, Jr. No. 1,163,178; Dec. 7; Gaz. vol. 221; p. 156.
- Binder, Loose-leaf. J. Schade, Jr. No. 1,163,179; Dec. 7; Gaz. vol. 221; p. 156.
- Binder, Loose-leaf. F. C. Skiles. No. 1,138,019; May 4; Gaz. vol. 214; p. 103.
- Binder, Loose-leaf. G. Smith. No. 1,129,242; Feb. 23; Gaz. vol. 211; p. 1027.
- Binder, Loose-leaf. E. A. Trussell. No. 1,150,719; Aug. 17; Gaz. vol. 217; p. 953.
- Binder, Loose-leaf. R. M. Watson. No. 1,163,722; Dec. 14; Gaz. vol. 221; p. 391.
- Binder or loose-leaf book, Temporary. R. Krumming. No. 1,126,490; Jan. 26; Gaz. vol. 210; p. 1276.
- Binder or loose-sheet holder, Temporary. R. Krumming. No. 1,125,126; Jan. 19; Gaz. vol. 210; p. 755.

- Binder or loose-sheet holder, Temporary. R. Krumming. No. 1,129,105; Feb. 23; Gaz. vol. 211; p. 980.
- Binder or loose-sheet holder, Temporary. R. Krumming. No. 1,136,017; Apr. 20; Gaz. vol. 213; p. 768.
- Binder or loose-sheet holder, Temporary. J. P. Petty. No. 1,142,455; June 8; Gaz. vol. 215; p. 520.
- Binder or loose-sheet holder, Temporary. G. P. Wigginton. No. 1,136,572; Apr. 20; Gaz. vol. 213; p. 965.
- Binder or loose-sheet holder, Temporary. G. P. Wigginton. No. 1,136,573; Apr. 20; Gaz. vol. 213; p. 966.
- Binder or loose-sheet holder, Temporary. G. P. Wigginton. No. 1,140,929; May 25; Gaz. vol. 214; p. 1237.
- Binder or loose-sheet holder, Temporary. G. P. Wigginton. No. 1,143,006; June 15; Gaz. vol. 215; p. 749.
- Binder or loose-sheet holder, Temporary. G. P. Wigginton. No. 1,150,472; Aug. 17; Gaz. vol. 217; p. 873.
- Binder or loose-sheet or the like holder, Temporary. J. P. Petty. No. 1,148,618; Aug. 3; Gaz. vol. 217; p. 49.
- Binder, Pocket check. W. G. Exline. No. 1,154,566; Sept. 21; Gaz. vol. 218; p. 844.
- Binder, Shiftable-sheet. J. C. Dawson. No. 1,132,306; Mar. 16; Gaz. vol. 212; p. 936.
- Binder, Shiftable-sheet. J. C. Dawson. No. 1,140,360; May 25; Gaz. vol. 214; p. 1035.
- Binder spring-clip, Temporary. J. Schade, Jr. No. 1,125,403; Jan. 19; Gaz. vol. 210; p. 858.
- Binder, Temporary. G. W. Everitt. No. 1,146,856; July 20; Gaz. vol. 216; p. 697.
- Binder, Temporary. W. F. Gilbert. No. 1,135,373; Apr. 13; Gaz. vol. 213; p. 499.
- Binder, Temporary. J. E. Gilmer. No. 1,134,735; Apr. 6; Gaz. vol. 213; p. 238.
- Binder, Temporary. L. F. Lewis. No. 1,156,160; Oct. 12; Gaz. vol. 219; p. 316.
- Binder, Temporary. J. M. Towne. No. 1,144,447; June 29; Gaz. vol. 215; p. 1304.
- Binder, Temporary. J. M. Towne. No. 1,144,448; June 29; Gaz. vol. 215; p. 1305.
- Binder, Temporary. C. D. Trussell. No. 1,141,157; June 1; Gaz. vol. 215; p. 23.
- Binder, Temporary. J. R. Turner. No. 1,132,230; Mar. 16; Gaz. vol. 212; p. 907.
- Binder, Temporary. J. R. Turner. No. 1,132,231; Mar. 16; Gaz. vol. 212; p. 907.
- Binder, Temporary. D. Umanoff. No. 1,159,135; Nov. 2; Gaz. vol. 220; p. 250.
- Binders, Bundle-carrier attachment for. W. C. G. Berndt. No. 1,139,013; May 11; Gaz. vol. 214; p. 493.
- Binders, Canvas butter for. H. T. Smith. No. 1,138,987; May 11; Gaz. vol. 214; p. 483.
- Binders, Die for making hinge-leaves for loose-leaf. J. R. Schade, Jr. No. 1,137,291; Apr. 27; Gaz. vol. 213; p. 1260.
- Binders, Lock-lever clip for temporary. J. M. Towne. No. 1,130,942; Mar. 5; Gaz. vol. 212; p. 417.
- Binders, Locking means for loose-leaf. E. V. Burns. No. 1,143,359; June 15; Gaz. vol. 215; p. 874.
- Binders, mowers, &c., Guard means for the cutting mechanism of. L. M. Hawkins. No. 1,165,169; Dec. 21; Gaz. vol. 221; p. 938.
- Binders, Open spring-clip for temporary. J. M. Towne. No. 1,125,412; Jan. 19; Gaz. vol. 210; p. 860.
- Binders, Post for loose-leaf. F. S. Betts. No. 1,138,619; May 11; Gaz. vol. 214; p. 351.
- Binders, Shock-former attachment for. J. E. Miller. No. 1,155,603; Oct. 5; Gaz. vol. 219; p. 97.
- Binders, Two-row cutter and conveyor for corn. A. K. Webster. No. 1,144,515; June 29; Gaz. vol. 215; p. 1327.
- Binding and suspending device. S. G. Herrmann. No. 1,157,107; Oct. 19; Gaz. vol. 219; p. 677.
- Binding and tying mechanism. J. L. Lamb. No. 1,135,298; Apr. 13; Gaz. vol. 213; p. 474.
- Binding-clip. C. C. Spengler. No. 1,150,073; Aug. 17; Gaz. vol. 217; p. 731.
- Binding device, Loose-leaf. E. A. Trussell. No. 1,138,262; May 4; Gaz. vol. 214; p. 188.
- Binding-machine. A. F. Preston. No. 1,152,903; Sept. 7; Gaz. vol. 218; p. 192.
- Binding machine, Pattern. H. J. and J. H. Sutherland. No. 1,135,469; Apr. 13; Gaz. vol. 213; p. 534.
- Binding-machines, Conveyor for. G. K. Strickland. No. 1,135,146; Apr. 13; Gaz. vol. 213; p. 424.
- Binding-machines, Pressure-bar for. C. F. McBee. No. 1,149,776; Aug. 10; Gaz. vol. 217; p. 564.
- Binding-machines, Swinging evener-board for. C. F. McBee. No. 1,149,775; Aug. 10; Gaz. vol. 217; p. 564.
- Binding-machines, Tongue-truck turning attachment for. J. Chamberlin. No. 1,143,890; June 22; Gaz. vol. 215; p. 1080.
- Binding-post. G. A. H. Churchill. No. 1,152,705; Sept. 7; Gaz. vol. 218; p. 120.
- Binding-post. F. H. Day. No. 1,132,454; Mar. 16; Gaz. vol. 212; p. 985.
- Binding-post. G. A. Gauthier. No. 1,142,416; June 8; Gaz. vol. 215; p. 505.
- Binding-post. N. J. Jeffries. No. 1,146,881; July 20; Gaz. vol. 216; p. 707.
- Binding-post, Spring. D. K. Kuskin. No. 1,165,519; Dec. 28; Gaz. vol. 221; p. 1097.
- Bird-box. H. M. Benedict. No. 1,158,968; Nov. 2; Gaz. vol. 220; p. 194.
- Bird-trap. J. A. Tooley. No. 1,155,017; Sept. 28; Gaz. vol. 218; p. 1026.
- Bird-trap. J. Torony. No. 1,158,012; Oct. 26; Gaz. vol. 219; p. 1057.
- Biscuit-icing machine. T. J. and E. L. Vicars. No. 1,153,585; Sept. 14; Gaz. vol. 218; p. 472.
- Biscuit, Making pan. A. F. Ward. No. 1,144,953; June 29; Gaz. vol. 215; p. 1476.
- Bit: Sec—
- | | |
|--------------------|--------------------|
| Auger-bit. | Expansive bit. |
| Bridle-bit. | Harness-bit. |
| Drill-bit. | Fish-tail bit. |
| Drill reaming-bit. | Valve-grinder bit. |
- Bit. F. W. H. De Vries. No. 1,146,479; July 13; Gaz. vol. 216; p. 550.
- Bit. A. Graham. No. 1,124,888; Jan. 12; Gaz. vol. 210; p. 638.
- Bit. J. D. MacDonald. No. 1,136,545; Apr. 20; Gaz. vol. 213; p. 955.
- Bit. O. W. Smith. No. 1,128,631; Feb. 16; Gaz. vol. 211; p. 777.
- Bit-making machine. J. J. Morris. No. 1,123,350; Jan. 5; Gaz. vol. 210; p. 53.
- Bit-stock. F. W. Larson. No. 1,133,046; Mar. 23; Gaz. vol. 212; p. 1255.
- Bits and similar tools, Holder for. W. J. G. Taylor. No. 1,152,669; Sept. 7; Gaz. vol. 218; p. 107.
- Bitless bridle. J. C. Klabo. No. 1,148,096; July 27; Gaz. vol. 216; p. 1162.
- Black finish. M. A. Atuesta. No. 1,157,283; Oct. 19; Gaz. vol. 219; p. 741.
- Blackboard and advertiser, Portable. H. A. Woods. No. 1,135,241; Apr. 13; Gaz. vol. 213; p. 453.
- Blackboard attachment. F. L. Hainline. No. 1,164,809; Dec. 21; Gaz. vol. 221; p. 811.
- Blacking and the like, Device for applying. J. Seholm and E. W. Mellin. No. 1,129,524; Feb. 23; Gaz. vol. 211; p. 1126.
- Blacking-box, Sheet-metal. F. Eberhart. No. 1,148,666; Aug. 3; Gaz. vol. 217; p. 66.
- Blacking device, Shoe. W. E. Elam. No. 1,147,490; July 20; Gaz. vol. 216; p. 921.
- Blackleading-machine. J. F. Gounley. No. 1,134,606; Apr. 6; Gaz. vol. 213; p. 190.
- Blackleading-machine. J. F. Gounley. No. 1,134,607; Apr. 6; Gaz. vol. 213; p. 191.
- Blacksmith's tool set. A. L. Ligon. No. 1,142,447; June 8; Gaz. vol. 215; p. 517.
- Blade-box. K. C. Gillette. No. 1,132,925; Mar. 23; Gaz. vol. 212; p. 1209.
- Blades to snatches, Device for connecting. A. Calliouette. No. 1,130,666; Mar. 2; Gaz. vol. 212; p. 289.
- Blank-feeding apparatus. M. Dünnebier and A. Winkler. No. 1,153,296; Sept. 14; Gaz. vol. 218; p. 366.
- Blank-folding machine. H. M. Clearwater. No. 1,149,185; Aug. 10; Gaz. vol. 217; p. 350.
- Blank-folding machines, Picking mechanism for. J. Temple. No. 1,132,888; Mar. 23; Gaz. vol. 212; p. 1195.
- Blank-handling mechanism. W. M. Stone. No. 1,123,617; Jan. 5; Gaz. vol. 210; p. 143.
- Blank-holding mechanism. R. L. Wilcox. No. 1,132,698; Mar. 23; Gaz. vol. 212; p. 1126.
- Blanks, Machine for operating upon. J. K. Kourlan. No. 1,163,669; Dec. 14; Gaz. vol. 221; p. 370.
- Blanket-holder. C. M. Berdan. No. 1,156,740; Oct. 12; Gaz. vol. 219; p. 519.
- Blankets, Adjustable breast-fastening for. G. C. Rasch. No. 1,155,371; Oct. 5; Gaz. vol. 219; p. 16.
- Blasting, Preparing holes for. W. H. Mason. No. 1,165,691; Dec. 28; Gaz. vol. 221; p. 1159.
- Blasting, Shot-shooting device for use in. L. Graham. No. 1,155,230; Sept. 28; Gaz. vol. 218; p. 1099.
- Bleach-chamber. A. V. Suchy. No. 1,126,586; Jan. 26; Gaz. vol. 210; p. 1315.
- Bleaching. R. Müller. No. 1,163,438; Dec. 7; Gaz. vol. 221; p. 246.
- Bleaching. F. L. Schmidt. No. 1,155,102; Sept. 28; Gaz. vol. 218; p. 1058.
- Bleaching. F. L. Schmidt. No. 1,155,104; Sept. 28; Gaz. vol. 218; p. 1058.
- Bleaching and cleaning, Composition of matter for. W. B. Pink. No. 1,151,257; Aug. 24; Gaz. vol. 217; p. 1200.
- Bleaching and dyeing textiles, Apparatus for. P. J. Grand-sire. No. 1,148,377; July 27; Gaz. vol. 216; p. 1262.
- Bleaching cane-juice, Apparatus for. W. H. Waggoner. No. 1,152,458; Sept. 7; Gaz. vol. 218; p. 26.
- Bleaching, dyeing, and the like, Apparatus for. O. and E. H. Sumner. No. 1,133,759; Mar. 30; Gaz. vol. 212; p. 1544.
- Bleaching, dyeing, &c., Machine for use in. W. I. Lewis. No. 1,166,063; Dec. 28; Gaz. vol. 221; p. 1286.
- Bleaching fabrics in open form. C. Taylor. No. 1,146,461; July 13; Gaz. vol. 216; p. 542.
- Bleaching ground wood-pulp. E. P. Foley. No. 1,154,851; Sept. 28; Gaz. vol. 218; p. 969.
- Bleaching, Preparing textile materials for. J. L. Jardine. No. 1,143,543; June 15; Gaz. vol. 215; p. 936.
- Bleaching purposes, Treatment of textile fibers for. E. T. J. Wafremez. No. 1,133,769; Mar. 30; Gaz. vol. 212; p. 1548.

Alphabetical list of inventions—Continued.

- Bleaching solution. A. Lehmann. No. 1,135,303; Apr. 13; Gaz. vol. 213; p. 476.
- Bleed-rod support. E. P. Quirk. No. 1,152,547; Sept. 7; Gaz. vol. 218; p. 62.
- Bleeding knife, Final. G. H. Roberts. No. 1,150,387; Aug. 17; Gaz. vol. 217; p. 843.
- Blind catch, Window. W. N. Button. No. 1,131,206; Mar. 9; Gaz. vol. 212; p. 508.
- Blind-fastener. F. H. Hill, Jr. No. 1,148,775; Aug. 3; Gaz. vol. 217; p. 106.
- Blind-slat holder, Window. A. M. Moore. No. 1,124,163; Jan. 5; Gaz. vol. 210; p. 328.
- Blind stock, Machine for corrugating Venetian. J. J. Dumas. No. 1,125,984; Jan. 26; Gaz. vol. 210; p. 1095.
- Blind to read, Apparatus for enabling the. H. Tideman. No. 1,149,547; Aug. 10; Gaz. vol. 217; p. 480.
- Blinds, Antirattling device for window. A. P. Anderson. No. 1,160,123; Nov. 16; Gaz. vol. 220; p. 688.
- Blindstitch-machine. L. Onderdonk. No. 1,132,967; Mar. 23; Gaz. vol. 212; p. 1225.
- Block: See—**
- | | |
|------------------------|---------------------|
| Bearing-block. | Hollow block. |
| Building-block. | Jack-block. |
| Chock block. | Kindling-block. |
| Collapsible and inter- | Pacing-block. |
| changeable block. | Printing-block. |
| Composite block. | Pulley-block. |
| Concrete block. | Roadway-block. |
| Construction-block. | Sheave-block. |
| Die-block. | Snatch-block. |
| Facing-block. | Spring-block. |
| Flashing-block. | Striking-block. |
| Floor-block. | Toy block. |
| Grinding-block. | Toy building-block. |
| Hat-block. | Type-block. |
| Head-block. | Vitrified block. |
- Block-casting apparatus. G. Atterbury. No. 1,163,198; Dec. 7; Gaz. vol. 221; p. 162.
- Block-handling device. C. S. Case. No. 1,129,071; Feb. 23; Gaz. vol. 211; p. 967.
- Block-leveleer. J. G. Osgood and F. W. Bachman. No. 1,146,730; July 13; Gaz. vol. 216; p. 634.
- Block-making machine. D. Brennan, Jr. No. 1,124,846; Jan. 12; Gaz. vol. 210; p. 622.
- Block-mold. F. J. McGuire. No. 1,163,248; Dec. 7; Gaz. vol. 221; p. 180.
- Block-molds, Tamping device for. L. H. Solon. No. 1,165,809; Dec. 28; Gaz. vol. 221; p. 1199.
- Block-molding machine. J. B. Hunt. No. 1,131,840; Mar. 16; Gaz. vol. 212; p. 766.
- Block-molding machine. G. A. Leonard. No. 1,143,769; June 22; Gaz. vol. 215; p. 1038.
- Block-refinisher. F. J. Pavelske and F. F. Malodzik. No. 1,135,714; Apr. 13; Gaz. vol. 213; p. 622.
- Block-signal apparatus. A. Bevan. No. 1,146,993; July 20; Gaz. vol. 216; p. 747.
- Block-signal system. T. Bodde. No. 1,164,330; Dec. 14; Gaz. vol. 221; p. 603.
- Block-signal system. L. A. Hawkins. No. 1,126,459; Jan. 26; Gaz. vol. 210; p. 1266.
- Block-signal system. L. A. Hawkins. No. 1,157,104; Oct. 19; Gaz. vol. 219; p. 676.
- Block-signal system. Absolute permissive. S. N. Wight. No. 1,134,982; Apr. 6; Gaz. vol. 213; p. 322.
- Block-signal system. Alternating-current. C. D. Ehret. No. 1,126,623; Jan. 26; Gaz. vol. 210; p. 1328.
- Block-signaling system of automatic. F. Townsend. No. 1,130,353; Mar. 2; Gaz. vol. 212; p. 177.
- Block-surfacing machine. A. Carpenter. No. 1,135,972; Apr. 13; Gaz. vol. 213; p. 712.
- Blocking in gold and other metallic leaf. T. Hooley. No. 1,155,574; Oct. 5; Gaz. vol. 219; p. 87.
- Blocking in gold and other metallic leaf. Press for. T. Hooley. No. 1,155,573; Oct. 5; Gaz. vol. 219; p. 86.
- Blood from the body. Device for withdrawing. P. V. Brown. No. 1,124,285; Jan. 12; Gaz. vol. 210; p. 421.
- Blood, Instrument for the transfusion of. A. L. Soresi. No. 1,151,300; Aug. 24; Gaz. vol. 217; p. 1214.
- Blotter. H. M. Greist. No. 1,135,012; Apr. 13; Gaz. vol. 213; p. 877.
- Blotter, Hand-attachable. H. Marui. No. 1,140,696; May 25; Gaz. vol. 214; p. 1153.
- Blow-off. J. C. Eckliff. No. 1,127,354; Feb. 2; Gaz. vol. 211; p. 240.
- Blow-out patch. M. Coppes and A. B. Crewdson. No. 1,165,322; Dec. 21; Gaz. vol. 221; p. 989.
- Blow-out patch. L. H. Israel. No. 1,155,577; Oct. 5; Gaz. vol. 219; p. 87.
- Blower. C. V. Kerr. No. 1,136,142; Apr. 20; Gaz. vol. 213; p. 811.
- Blower. D. E. Maxfield. No. 1,128,475; Feb. 16; Gaz. vol. 211; p. 724.
- Blower. T. J. Ritter. No. 1,131,554; Mar. 9; Gaz. vol. 212; p. 627.
- Blower. T. J. Ritter. No. 1,131,555; Mar. 9; Gaz. vol. 212; p. 627.
- Blower and other centrifugal machine of a similar nature, Centrifugal. T. H. C. Homersham. No. 1,136,877; Apr. 20; Gaz. vol. 213; p. 1072.
- Blower attachment, Blacksmith's. A. C. Kephart. No. 1,131,885; Mar. 9; Gaz. vol. 212; p. 569.
- Blower-cleaner. A. M. Johnson. No. 1,140,462; May 25; Gaz. vol. 214; p. 1073.
- Blower, Combination. H. A. Bierck. No. 1,132,237; Mar. 16; Gaz. vol. 212; p. 909.
- Blower, Compound. C. V. Kerr. No. 1,125,118; Jan. 19; Gaz. vol. 210; p. 752.
- Blower, Fan. W. J. Montgomery. No. 1,136,827; Apr. 20; Gaz. vol. 213; p. 1055.
- Blower, Fire-tube-boiler. E. C. Hafer. No. 1,151,177; Aug. 24; Gaz. vol. 217; p. 1173.
- Blower, Flue. G. H. Van Schaick, P. Burns, and J. Reardon. No. 1,155,177; Sept. 28; Gaz. vol. 218; p. 1083.
- Blower for boilers. J. C. Bennett. No. 1,139,630; May 18; Gaz. vol. 214; p. 745.
- Blower for boilers. J. C. Bennett. No. 1,141,304; June 1; Gaz. vol. 215; p. 78.
- Blower for boilers. G. Burgess. No. 1,128,406; Feb. 16; Gaz. vol. 211; p. 699.
- Blower for water-tube boilers. J. Magee. No. 1,150,138; Aug. 17; Gaz. vol. 217; p. 755.
- Blower-hood and fastening therefor. C. E. Hitt. No. 1,142,960; June 15; Gaz. vol. 215; p. 733.
- Blower, Multistage centrifugal. T. W. Green. No. 1,136,330; Apr. 20; Gaz. vol. 213; p. 877.
- Blower, Powder. A. Singer. No. 1,142,636; June 8; Gaz. vol. 215; p. 581.
- Blower, Rotary. R. A. Ilg. No. 1,163,543; Dec. 7; Gaz. vol. 221; p. 282.
- Blower, rotary pump, and the like, Rotary. T. Shepherd and J. S. Hayes. No. 1,158,733; Nov. 2; Gaz. vol. 220; p. 112.
- Blower, Siphon. J. L. Houston. No. 1,151,464; Aug. 24; Gaz. vol. 217; p. 1268.
- Blower, Steam turbine. W. McClave. No. 1,165,796; Dec. 28; Gaz. vol. 221; p. 1195.
- Blower system. C. W. E. Clarke. No. 1,137,463; Apr. 27; Gaz. vol. 213; p. 1321.
- Blower, Turbine. W. McClave. No. 1,165,794; Dec. 28; Gaz. vol. 221; p. 1194.
- Blower, Turbine. W. McClave. No. 1,165,795; Dec. 28; Gaz. vol. 221; p. 1195.
- Blower unit for boilers. J. Magee. No. 1,155,499; Oct. 5; Gaz. vol. 219; p. 62.
- Blowing-engine and the like. C. N. Scott. No. 1,150,069; Aug. 17; Gaz. vol. 217; p. 730.
- Blowpipe. B. L. Kissel. No. 1,145,246; July 6; Gaz. vol. 216; p. 95.
- Blowpipe. A. Kofod. No. 1,125,559; Jan. 19; Gaz. vol. 210; p. 910.
- Blowpipe. J. M. Morris. No. 1,139,435; May 11; Gaz. vol. 214; p. 641.
- Blowpipe. M. E. Wirans. No. 1,143,677; June 22; Gaz. vol. 215; p. 1008.
- Blowpipe, Acetylene. E. H. Smith. No. 1,136,491; Apr. 20; Gaz. vol. 213; p. 937.
- Blowpipe, Acetylene. J. W. and E. H. Smith. No. 1,136,492; Apr. 20; Gaz. vol. 213; p. 937.
- Blowpipe, Acetylene. J. W. and E. H. Smith. No. 1,152,985; Sept. 7; Gaz. vol. 218; p. 222.
- Blowpipe for rock-drilling, Air and water. F. T. Sanders. No. 1,146,284; July 13; Gaz. vol. 216; p. 478.
- Blowpipe, Metal-working. M. E. Winans and P. A. Rose. No. 1,162,199; Nov. 30; Gaz. vol. 220; p. 1511.
- Blowpipe, Water-cooled. A. W. Waern. No. 1,145,948; July 13; Gaz. vol. 216; p. 359.
- Blue-flame wick-burner. H. Ruppel. No. 1,143,072; June 15; Gaz. vol. 215; p. 773.
- Blue-print developing and drying apparatus, Conveyor means for. T. W. Holcomb. No. 1,126,637; Jan. 26; Gaz. vol. 210; p. 1333.
- Board: See—**
- | | |
|-----------------------|----------------------------|
| Base-ball board. | Licorice-root-fiber board. |
| Base-board. | Mica-board. |
| Batter-board. | Net shear-board. |
| Blackboard. | Panel-board. |
| Bosom-board. | Piano fall-board. |
| Bread-board. | Planting-board. |
| Bulletin-board. | Plaster-board. |
| Cloth-board. | Purchase-board. |
| Comber-board. | Press-board. |
| Corrugated-board. | Pressing-board. |
| Directory-board. | Railway level-board. |
| Display-board. | Score-board. |
| Drafting-board. | Shovel-board. |
| Drain-board. | Sign-board. |
| Drawing-board. | Sounding-board. |
| Footboard. | Spot-board. |
| Game-board. | Spring-board. |
| Guide-board. | Stamp-board. |
| Harvester butt-board. | Talking-board. |
| Ironing-board. | Target plotting-board. |
| Junction-board. | Tracing-board. |
| Keyboard. | Tracker-board. |
| Kneading-board. | Toe-board. |
| Laminated-board. | Violin finger-board. |
| Lath-board. | Wall-board. |
| Leather-board. | Wash-board. |
- Board. W. H. Fairchild. No. 1,158,667; Nov. 2; Gaz. vol. 220; p. 91.
- Board-bundling machine. N. B. Thompson. No. 1,152,670; Sept. 7; Gaz. vol. 218; p. 108.

- Board-clamp. R. Gross. No. 1,123,274; Jan. 5; Gaz. vol. 210; p. 24.
- Board, Machine for scoring blanks of cellular. D. Kelleher. No. 1,144,765; June 29; Gaz. vol. 215; p. 1413.
- Boat. C. H. Fowler. No. 1,163,076; Dec. 7; Gaz. vol. 221; p. 119.
- Boat. A. P. Lundin. No. 1,140,469; May 25; Gaz. vol. 214; p. 1076.
- Boat. H. Middaugh. No. 1,128,707; Feb. 16; Gaz. vol. 211; p. 803.
- Boat. J. and G. Pivarchy. No. 1,125,881; Jan. 19; Gaz. vol. 210; p. 1024.
- Boat. J. J. Ryan and C. C. Smith. No. 1,157,423; Oct. 19; Gaz. vol. 219; p. 791.
- Boat. A. A. Sawman. No. 1,144,434; June 29; Gaz. vol. 215; p. 1300.
- Boat and launching-davit therefor. Life. M. Chupka. No. 1,136,938; Apr. 27; Gaz. vol. 213; p. 1130.
- Boat and launching mechanism therefor. Life. J. McGoldrick. No. 1,134,630; Apr. 6; Gaz. vol. 213; p. 199.
- Boat and propeller therefor. N. Stirn. No. 1,133,193; Mar. 23; Gaz. vol. 212; p. 1307.
- Boat and raft launching apparatus. Life. G. W. Boyd. No. 1,162,218; Nov. 30; Gaz. vol. 220; p. 1517.
- Boat and the like, Collapsible life-. J. R. Munn and G. MacLaren. No. 1,147,966; July 27; Gaz. vol. 216; p. 1114.
- Boat apparatus. Life-. S. Katko. No. 1,152,181; Aug. 31; Gaz. vol. 217; p. 1563.
- Boat, Automobile. F. F. Mattmann. No. 1,158,704; Nov. 2; Gaz. vol. 220; p. 102.
- Boat, Automobile. W. C. Mazzei. No. 1,135,126; Apr. 13; Gaz. vol. 213; p. 416.
- Boat, Buoyant life-. A. Anastasi. No. 1,124,248; Jan. 12; Gaz. vol. 210; p. 406.
- Boat canopy. Life-. J. Danyi. No. 1,125,484; Jan. 19; Gaz. vol. 210; p. 883.
- Boat-chair, Foldable. B. T. Snelling. No. 1,161,420; Nov. 23; Gaz. vol. 220; p. 1195.
- Boat, Collapsible life-. H. Ernst. No. 1,146,059; July 13; Gaz. vol. 216; p. 399.
- Boat, Collapsible life-. G. G. Schwabek. No. 1,142,986; June 15; Gaz. vol. 215; p. 742.
- Boat construction. E. Ambroz. No. 1,127,153; Feb. 2; Gaz. vol. 211; p. 173.
- Boat convertible into deck-seats. Life-. D. Davies. No. 1,134,672; Apr. 6; Gaz. vol. 213; p. 215.
- Boat device. Life-. D. E. Basile. No. 1,133,700; Mar. 30; Gaz. vol. 212; p. 1525.
- Boat doing away with oars and rudder. T. Bassford. No. 1,133,788; Mar. 30; Gaz. vol. 212; p. 1555.
- Boat, Flying-. G. H. Curtiss. No. 1,142,754; June 8; Gaz. vol. 215; p. 619.
- Boat, Foldable canvas. S. Belanski. No. 1,128,934; Feb. 16; Gaz. vol. 211; p. 884.
- Boat, Foldable canvas. J. S. Svendsen. No. 1,134,773; Apr. 6; Gaz. vol. 213; p. 253.
- Boat, Folding. G. R. Bair. No. 1,151,435; Aug. 24; Gaz. vol. 217; p. 1258.
- Boat handling and lowering device. Ship's. S. E. Aaron. No. 1,123,645; Jan. 5; Gaz. vol. 210; p. 153.
- Boat-handling apparatus. Life-. H. W. Broady. No. 1,128,656; Feb. 16; Gaz. vol. 211; p. 786.
- Boat, Inflating foldable. W. Czarnik. No. 1,130,480; Mar. 2; Gaz. vol. 212; p. 225.
- Boat-launching apparatus. S. N. Wessberg. No. 1,152,678; Sept. 7; Gaz. vol. 218; p. 110.
- Boat-launching apparatus. R. E. Wood. No. 1,127,342; Feb. 2; Gaz. vol. 211; p. 236.
- Boat-launching apparatus. Life-. R. R. Cocking. No. 1,130,569; Mar. 2; Gaz. vol. 212; p. 256.
- Boat-launching apparatus. Ship's. L. L'Heureux. No. 1,162,497; Nov. 30; Gaz. vol. 220; p. 1613.
- Boat-launching device. Life-. R. W. Leeming. No. 1,140,046; May 18; Gaz. vol. 214; p. 892.
- Boat-launching device. Life-. A. C. Plumb, R. W. Smart, and A. P. Sautter. No. 1,126,076; Jan. 26; Gaz. vol. 210; p. 1130.
- Boat, Life-. F. Aufinger and J. Lemanklewick. No. 1,142,224; June 8; Gaz. vol. 215; p. 437.
- Boat, Life-. D. Basile. No. 1,141,755; June 1; Gaz. vol. 215; p. 235.
- Boat, Life-. O. H. L. Deswatin. No. 1,125,270; Jan. 19; Gaz. vol. 210; p. 809.
- Boat, Life-. H. G. Fedi. No. 1,152,158; Aug. 31; Gaz. vol. 217; p. 1556.
- Boat, Life-. L. La Fontaine. No. 1,130,301; Mar. 2; Gaz. vol. 212; p. 160.
- Boat, Life-. F. Fox. No. 1,147,158; July 20; Gaz. vol. 216; p. 804.
- Boat, Life-. W. R. Parkinson. No. 1,129,718; Feb. 23; Gaz. vol. 211; p. 1190.
- Boat, Life-. C. Pierce. No. 1,150,881; Aug. 24; Gaz. vol. 217; p. 1072.
- Boat, Life-. A. Pinter. No. 1,149,217; Aug. 10; Gaz. vol. 217; p. 362.
- Boat, Life-. F. Sardynski and J. Tysko. No. 1,133,063; Mar. 23; Gaz. vol. 212; p. 1261.
- Boat, Life-. A. L. Sewell. No. 1,124,341; Jan. 12; Gaz. vol. 210; p. 440.
- Boat, Life-. T. F. Shanahan. No. 1,163,474; Dec. 7; Gaz. vol. 221; p. 258.
- Boat, Manually-propelled. J. Abramski. No. 1,165,375; Dec. 28; Gaz. vol. 221; p. 1047.
- Boat, Motor-. H. L. Bowers. No. 1,123,230; Jan. 5; Gaz. vol. 210; p. 10.
- Boat, Motor-. W. H. Wolcott. No. 1,154,471; Sept. 21; Gaz. vol. 218; p. 812.
- Boat-motor. E. B. Blakely. No. 1,139,631; May 18; Gaz. vol. 214; p. 745.
- Boat-motor. O. W. Hult. No. 1,138,294; May 4; Gaz. vol. 214; p. 200.
- Boat-motor. G. D. Sicklesteel. No. 1,134,919; Apr. 5; Gaz. vol. 213; p. 298.
- Boat-motor, Detachable. C. A. Hoefler. No. 1,160,410; Nov. 16; Gaz. vol. 220; p. 787.
- Boat-outtrigger. J. Beck. No. 1,136,306; Apr. 20; Gaz. vol. 213; p. 869.
- Boat outtrigger. Life-. F. Kratky. No. 1,127,901; Feb. 9; Gaz. vol. 211; p. 476.
- Boat-releasing apparatus. Life-. R. Tjader. No. 1,159,293; Nov. 2; Gaz. vol. 220; p. 307.
- Boat-releasing gear. Life-. P. M. Wotton. No. 1,126,154; Jan. 26; Gaz. vol. 210; p. 1156.
- Boat, Reversible. T. H. Gaskin. No. 1,160,062; Nov. 9; Gaz. vol. 220; p. 611.
- Boat safety appliance. F. C. Foster. No. 1,133,629; Mar. 30; Gaz. vol. 212; p. 1498.
- Boat safety device. Submarine. J. E. Conaway. No. 1,127,965; Feb. 9; Gaz. vol. 211; p. 497.
- Boat, Sea-going canal. A. and A. M. McDougall. No. 1,128,886; Feb. 16; Gaz. vol. 211; p. 865.
- Boat, Sectional. S. Zalczyński. No. 1,127,842; Feb. 9; Gaz. vol. 211; p. 454.
- Boat, Shallow-draft submarine. F. B. Whitney. No. 1,127,707; Feb. 9; Gaz. vol. 211; p. 404.
- Boat, Shallow-water. C. H. Fowler. No. 1,132,923; Mar. 23; Gaz. vol. 212; p. 1208.
- Boat, Ship's life-. M. Bourke. No. 1,130,137; Mar. 2; Gaz. vol. 212; p. 102.
- Boat, Sportsman's. O. M. Ellison. No. 1,148,961; Aug. 3; Gaz. vol. 217; p. 169.
- Boat storing, lowering, and raising apparatus. Ship's-. I. F. Taylor and S. Pick. No. 1,133,826; Mar. 30; Gaz. vol. 212; p. 1569.
- Boat stowing and launching apparatus. E. S. Gladstone. No. 1,126,444; Jan. 26; Gaz. vol. 210; p. 1261.
- Boat, Submarine. J. Barraja-Frauenfelder. No. 1,153,883; Nov. 2; Gaz. vol. 220; p. 167.
- Boat, Submarine. H. S. Epes. No. 1,126,624; Jan. 26; Gaz. vol. 210; p. 1328.
- Boat, Submarine. S. Lake. No. 1,135,537; Apr. 13; Gaz. vol. 213; p. 558.
- Boat, Submarine. S. Lake. No. 1,149,373; Aug. 10; Gaz. vol. 217; p. 420.
- Boat, Submarine. C. Regenbogen and H. Vogel. No. 1,164,394; Dec. 14; Gaz. vol. 221; p. 626.
- Boat, Submarine. L. Y. Spear. No. 1,153,267; Sept. 14; Gaz. vol. 218; p. 357.
- Boat, Submarine or submersible. E. L. Peacock. No. 1,152,754; Sept. 7; Gaz. vol. 218; p. 137.
- Boat, Submarine torpedo. J. Barraja-Frauenfelder. No. 1,134,940; Apr. 6; Gaz. vol. 213; p. 305.
- Boats. Adjustable outtrigger for. P. Gepack. No. 1,132,924; Mar. 23; Gaz. vol. 212; p. 1208.
- Boats. Apparatus for shallow-water. C. H. Fowler. No. 1,163,077; Dec. 7; Gaz. vol. 221; p. 119.
- Boats at sea. Means for lowering. A. T. Nelson. No. 1,131,411; Mar. 9; Gaz. vol. 212; p. 578.
- Boats. Attachment for submarine. J. Barraja-Frauenfelder. No. 1,142,768; June 8; Gaz. vol. 215; p. 625.
- Boats. Automatic outlet-valve for ships' life-. P. Earnshaw. No. 1,125,824; Jan. 19; Gaz. vol. 210; p. 1006.
- Boats. Breakwater-shield for submarine. R. H. M. Robinson. No. 1,146,958; July 20; Gaz. vol. 216; p. 734.
- Boats. Buoyancy-regulating apparatus for submarine. S. Lake. No. 1,123,762; Jan. 5; Gaz. vol. 210; p. 193.
- Boats. Draining system for cargo of sand-. A. G. Walter. No. 1,150,981; Aug. 24; Gaz. vol. 217; p. 1106.
- Boats. Falls for raising and lowering life-. P. M. Wotton. No. 1,126,153; Jan. 26; Gaz. vol. 210; p. 1156.
- Boats. Holding and disengaging gear for ships'. H. W. Gavin. No. 1,139,116; May 11; Gaz. vol. 214; p. 530.
- Boats. Hull construction of submarine. L. Y. Spear. No. 1,154,215; Sept. 21; Gaz. vol. 218; p. 723.
- Boats. Means for locating submarine. H. Lotz. No. 1,154,522; Sept. 21; Gaz. vol. 218; p. 829.
- Boats. Means for suspending outboard motors from. C. A. and O. W. Hult. No. 1,165,603; Dec. 28; Gaz. vol. 221; p. 1127.
- Boats. Method of and means for stowing and launching ships'. A. Wilson and J. Robson. No. 1,131,453; Mar. 9; Gaz. vol. 212; p. 593.
- Boats. Side light for. I. Chase. No. 1,133,536; Mar. 30; Gaz. vol. 212; p. 1465.
- Boats. Submerged exhaust and bilge-water-removing device for motor-. G. M. Cram. No. 1,162,223; Nov. 30; Gaz. vol. 220; p. 1519.
- Bobbin. J. G. Andrews. No. 1,136,305; Apr. 20; Gaz. vol. 213; p. 869.
- Bobbin. G. H. Benjamin. No. 1,140,352; May 25; Gaz. vol. 214; p. 1033.
- Bobbin. G. H. Benjamin. No. 1,156,579; Oct. 12; Gaz. vol. 219; p. 462.

Alphabetical list of inventions—Continued.

- Bobbin. W. E. Bennett. No. 1,140,868; May 25; Gaz. vol. 214; p. 1214.
- Bobbin-case and tension. C. L. Miller and F. B. Freeman. No. 1,157,245; Oct. 19; Gaz. vol. 219; p. 727.
- Bobbin-cleaning mechanism. D. L. Chandler. No. 1,145,000; July 6; Gaz. vol. 216; p. 8.
- Bobbin-cop. C. A. Hunt, Jr. No. 1,124,448; Jan. 12; Gaz. vol. 210; p. 479.
- Bobbin-holder. O. L. Owen. No. 1,135,712; Apr. 13; Gaz. vol. 213; p. 621.
- Bobbin-holder. I. Snow. No. 1,140,203; May 18; Gaz. vol. 214; p. 947.
- Bobbin-holder for spoolers. O. L. Owen. No. 1,137,889; May 4; Gaz. vol. 214; p. 58.
- Bobbin-marking machine. W. Elliot, Jr. No. 1,153,679; Sept. 14; Gaz. vol. 218; p. 503.
- Bobbin or quill stripping machine. C. S. Smart and W. W. Linder. No. 1,144,006; June 22; Gaz. vol. 215; p. 1121.
- Bobbin, Producing a filled. C. A. Hammond-Knowlton. No. 1,129,669; Feb. 23; Gaz. vol. 211; p. 1175.
- Bobbin race and cover. F. Ehrendriech. No. 1,129,965; Mar. 2; Gaz. vol. 212; p. 45.
- Bobbin-retaining mechanism. W. R. Blair. No. 1,152,140; Aug. 31; Gaz. vol. 217; p. 1549.
- Bobbin-stripper. E. H. Ryon. No. 1,136,051; Apr. 20; Gaz. vol. 213; p. 779.
- Bobbin-stripping machine. D. L. Chandler. No. 1,147,678; July 20; Gaz. vol. 216; p. 986.
- Bobbin, tube, or the like for use in textile industries, Perforated. J. T. and E. Brandwood. No. 1,132,240; Mar. 16; Gaz. vol. 212; p. 911.
- Bobbin-winding machine. A. Rotter. No. 1,146,452; July 13; Gaz. vol. 216; p. 539.
- Bobbin-winding machine Variable-speed. T. Thompson. No. 1,126,317; Jan. 26; Gaz. vol. 210; p. 1216.
- Bodies or small particles of substances, Producing. E. Morr. No. 1,128,175; Feb. 9; Gaz. vol. 211; p. 571.
- Body-supporter. L. P. Callahan. No. 1,164,333; Dec. 14; Gaz. vol. 221; p. 604.
- Body-treatment machine. J. P. Gardner. No. 1,134,084; Mar. 30; Gaz. vol. 212; p. 1654.
- Bodkin. A. Nicodemus. No. 1,149,397; Aug. 10; Gaz. vol. 217; p. 427.
- Boiler: *Sec—*
- | | |
|------------------------------|-----------------------------|
| Clothes-boiler. | Smoke-consuming boiler. |
| Egg-boiler. | Solar boiler. |
| Electrically-heated boiler. | Stand-boiler. |
| Fire-tube boiler. | Steam-boiler. |
| Heating-boiler. | Steam-generating boiler. |
| Locomotive-boiler. | Superheater-boiler. |
| Marine boiler. | Washboiler. |
| Milk-boiler. | Water-tube boiler. |
| Sectional boiler. | Water-tube fire-box boiler. |
| Smoke and water tube boiler. | Water-tube marine boiler. |
- Boiler. J. H. Bacon. No. 1,151,750; Aug. 31; Gaz. vol. 217; p. 1413.
- Boiler. J. T. Jones. No. 1,147,326; July 20; Gaz. vol. 216; p. 860.
- Boiler. W. Kane. No. 1,123,750; Jan. 5; Gaz. vol. 210; p. 188.
- Boiler. B. B. Lamprey. No. 1,163,602; Dec. 7; Gaz. vol. 221; p. 304.
- Boiler. R. D. Reed. No. 1,147,643; July 20; Gaz. vol. 216; p. 975.
- Boiler. T. J. Shea. No. 1,157,813; Oct. 26; Gaz. vol. 219; p. 987.
- Boiler. H. A. Sprenger. No. 1,164,884; Dec. 21; Gaz. vol. 221; p. 837.
- Boiler. M. Stoddard. No. 1,149,303; Aug. 10; Gaz. vol. 217; p. 394.
- Boiler. S. Thurstensen. No. 1,157,736; Oct. 26; Gaz. vol. 219; p. 961.
- Boiler and gas-heater. H. Fukuzumi. No. 1,147,499; July 20; Gaz. vol. 216; p. 924.
- Boiler attachment, Safety. D. O. Tilman and O. C. Scheibner. No. 1,133,680; Mar. 30; Gaz. vol. 212; p. 1518.
- Boiler blow-off. G. Purvis. No. 1,163,687; Dec. 14; Gaz. vol. 221; p. 377.
- Boiler-casing. I. M. Hope. No. 1,139,527; May 18; Gaz. vol. 214; p. 708.
- Boiler-circulator. A. McNab. No. 1,155,832; Oct. 5; Gaz. vol. 219; p. 178.
- Boiler-cleaner. E. Rankin. No. 1,135,139; Apr. 13; Gaz. vol. 213; p. 422.
- Boiler-cleaner. E. Rankin. No. 1,153,953; Sept. 21; Gaz. vol. 218; p. 634.
- Boiler-cleaner. J. W. Seegrift. No. 1,126,302; Jan. 26; Gaz. vol. 210; p. 1210.
- Boiler-cleaning apparatus. D. F. McGill. No. 1,124,634; Jan. 12; Gaz. vol. 210; p. 547.
- Boiler-cleaning apparatus. B. Neill. No. 1,148,789; Aug. 3; Gaz. vol. 217; p. 110.
- Boiler-cleaning attachment, Fire-tubular. H. R. Boesch. No. 1,164,914; Dec. 21; Gaz. vol. 221; p. 848.
- Boiler-cleaning device. E. D. McLean. No. 1,158,948; Nov. 2; Gaz. vol. 220; p. 188.
- Boiler-cleaning means. T. G. Turner. No. 1,159,625; Nov. 9; Gaz. vol. 220; p. 458.
- Boiler-cleaning tool. M. O. Lewis. No. 1,140,047; May 18; Gaz. vol. 214; p. 893.
- Boiler-compound feeder. W. Kuth. No. 1,165,608; Dec. 28; Gaz. vol. 221; p. 1128.
- Boiler construction. W. F. Sellers. No. 1,148,544; Aug. 3; Gaz. vol. 217; p. 21.
- Boiler construction. D. D. Shierk. No. 1,136,374; Apr. 20; Gaz. vol. 213; p. 594.
- Boiler construction, Steam. J. Farmer and M. E. Sherland. No. 1,134,115; Apr. 6; Gaz. vol. 213; p. 11.
- Boiler control, Steam. C. H. Ridderstedt. No. 1,134,159; Apr. 6; Gaz. vol. 213; p. 27.
- Boiler cut-off system. G. W. Collin. No. 1,136,211; Apr. 20; Gaz. vol. 213; p. 835.
- Boiler feed apparatus. G. H. Gibson. No. 1,152,019; Aug. 31; Gaz. vol. 217; p. 1507.
- Boiler feed apparatus, Automatic. E. Koerting. No. 1,133,040; Mar. 23; Gaz. vol. 212; p. 1253.
- Boiler feed apparatus, Gravity automatic. J. G. Sanders. No. 1,129,235; Feb. 23; Gaz. vol. 211; p. 1024.
- Boiler-feed governor. L. J. Bordo. No. 1,150,013; Aug. 17; Gaz. vol. 217; p. 711.
- Boiler-feed-water regulator. W. J. Stevens. No. 1,156,941; Oct. 19; Gaz. vol. 219; p. 618.
- Boiler-feeder. J. M. Abbott. No. 1,157,357; Oct. 19; Gaz. vol. 219; p. 766.
- Boiler-feeding device, Automatic. M. P. Osbourn. No. 1,134,636; Apr. 6; Gaz. vol. 213; p. 202.
- Boiler filler, Steam. G. R. and A. M. Shaffer. No. 1,162,408; Nov. 30; Gaz. vol. 220; p. 1582.
- Boiler fire-box. F. M. Jacobs. No. 1,125,106; Jan. 19; Gaz. vol. 210; p. 748.
- Boiler fire-box. F. M. Jacobs. No. 1,135,114; Apr. 13; Gaz. vol. 213; p. 412.
- Boiler fire-box. C. C. Shaw. No. 1,127,685; Feb. 9; Gaz. vol. 211; p. 395.
- Boiler fire-box, Locomotive. G. M. Bean. No. 1,138,066; May 4; Gaz. vol. 214; p. 122.
- Boiler fire-box, Locomotive. J. P. Neff. No. 1,138,058; May 4; Gaz. vol. 214; p. 118.
- Boiler fire-box, Locomotive. L. Parish. No. 1,138,062; May 4; Gaz. vol. 214; p. 120.
- Boiler fire-box, Steam. D. M. Light. No. 1,162,295; Nov. 30; Gaz. vol. 220; p. 1544.
- Boiler-flue cleaner. J. W. Carlson. No. 1,144,461; June 29; Gaz. vol. 215; p. 1309.
- Boiler-flue-cleaner system. D. E. Hibner and F. W. Linaker. No. 1,144,543; June 29; Gaz. vol. 215; p. 1336.
- Boiler-flue-cleaner system. F. W. Linaker. No. 1,138,301; May 4; Gaz. vol. 214; p. 202.
- Boiler-flue-cleaner system. F. W. Linaker. No. 1,144,553; June 29; Gaz. vol. 215; p. 1339.
- Boiler-flue-cleaner system. F. W. Linaker. No. 1,148,846; Aug. 3; Gaz. vol. 217; p. 130.
- Boiler-flue-cleaning apparatus. G. S. Kyle. No. 1,143,409; June 15; Gaz. vol. 215; p. 892.
- Boiler-flue joint. L. W. Craft. No. 1,164,577; Dec. 14; Gaz. vol. 221; p. 688.
- Boiler-flue tubes, Machine for shaping, rolling, and welding. E. H. Schultz. No. 1,151,621; Aug. 31; Gaz. vol. 217; p. 1371.
- Boiler-flues, Means for preserving. J. P. Danbrook. No. 1,139,350; May 11; Gaz. vol. 214; p. 608.
- Boiler for heating systems. V. Lazlany. No. 1,150,948; Aug. 24; Gaz. vol. 217; p. 1095.
- Boiler for utilizing waste heat. C. J. Bacon. No. 1,138,346; May 4; Gaz. vol. 214; p. 220.
- Boiler-front. J. S. Webster. No. 1,164,687; Dec. 21; Gaz. vol. 221; p. 769.
- Boiler-furnace. J. Dick. No. 1,137,465; Apr. 27; Gaz. vol. 213; p. 1322.
- Boiler-furnace. A. Hock. No. 1,146,255; July 13; Gaz. vol. 216; p. 468.
- Boiler-furnace. E. Lane. No. 1,165,981; Dec. 28; Gaz. vol. 221; p. 1258.
- Boiler-furnace. C. H. Schroder. No. 1,151,127; Aug. 24; Gaz. vol. 217; p. 1155.
- Boiler-furnace. M. W. Sewall. No. 1,136,175; Apr. 20; Gaz. vol. 213; p. 823.
- Boiler-furnace. F. J. Widman. No. 1,129,825; Feb. 23; Gaz. vol. 211; p. 1226.
- Boiler furnace and feed-water heater. J. R. Surrell. (Reissue.) No. 14,002; Oct. 26; Gaz. vol. 219; p. 1203.
- Boiler furnace and feed-water heater. J. R. Surrell. (Reissue.) No. 14,003; Oct. 26; Gaz. vol. 219; p. 1207.
- Boiler-furnace, Downdraft smoke-consuming. C. H. Hook. No. 1,151,592; Aug. 31; Gaz. vol. 217; p. 1360.
- Boiler-furnace, Liquid-fuel. C. I. Lindau. No. 1,152,897; Sept. 7; Gaz. vol. 218; p. 190.
- Boiler furnace, Locomotive. F. F. Gaines. No. 1,138,060; May 4; Gaz. vol. 214; p. 119.
- Boiler furnace, Locomotive. F. F. Gaines. No. 1,138,061; May 4; Gaz. vol. 214; p. 120.
- Boiler furnace, Locomotive. C. B. Moore. No. 1,138,032; May 4; Gaz. vol. 214; p. 108.
- Boiler furnace, Locomotive. C. B. Moore. No. 1,138,034; May 4; Gaz. vol. 214; p. 108.
- Boiler furnace, Locomotive. C. B. Moore. No. 1,138,035; May 4; Gaz. vol. 214; p. 109.
- Boiler furnace, Locomotive. C. B. Moore. No. 1,138,038; May 4; Gaz. vol. 214; p. 110.

Alphabetical list of inventions—Continued.

- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,039; May 4; Gaz. vol. 214; p. 110.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,040; May 4; Gaz. vol. 214; p. 111.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,042; May 4; Gaz. vol. 214; p. 111.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,046; May 4; Gaz. vol. 214; p. 113.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,047; May 4; Gaz. vol. 214; p. 113.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,048; May 4; Gaz. vol. 214; p. 114.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,049; May 4; Gaz. vol. 214; p. 114.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,050; May 4; Gaz. vol. 214; p. 115.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,051; May 4; Gaz. vol. 214; p. 115.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,138,052; May 4; Gaz. vol. 214; p. 115.
- Boiler furnace, Locomotive-. C. B. Moore. No. 1,160,434; Nov. 16; Gaz. vol. 220; p. 795.
- Boiler furnace, Locomotive-. J. P. Neff. No. 1,138,031; May 4; Gaz. vol. 214; p. 107.
- Boiler furnace, Locomotive-. J. P. Neff. No. 1,138,055; May 4; Gaz. vol. 214; p. 117.
- Boiler furnace, Locomotive-. J. P. Neff. No. 1,138,068; May 4; Gaz. vol. 214; p. 123.
- Boiler furnace, Locomotive-. L. Parish. No. 1,138,056; May 4; Gaz. vol. 214; p. 117.
- Boiler furnace, Steam-. W. P. Barclay. No. 1,126,685; Feb. 2; Gaz. vol. 211; p. 6.
- Boiler furnace, Steam-. I. C. Dakin. No. 1,147,216; July 20; Gaz. vol. 216; p. 825.
- Boiler furnace, Steam-. C. E. Googins. No. 1,140,674; May 25; Gaz. vol. 214; p. 1146.
- Boiler furnace, Steam-. S. G. Thomson. No. 1,147,567; July 20; Gaz. vol. 216; p. 947.
- Boiler furnace, Steam-. J. Wolff. No. 1,129,534; Feb. 23; Gaz. vol. 211; p. 1129.
- Boiler-heating apparatus. C. H. McCormick. No. 1,165,886; Dec. 28; Gaz. vol. 221; p. 1225.
- Boiler high and low water alarm, Automatic. C. M. Clark. No. 1,149,497; Aug. 10; Gaz. vol. 217; p. 462.
- Boiler low-water alarm. W. D. Anderson and E. J. Shearer. No. 1,123,831; Jan. 5; Gaz. vol. 210; p. 216.
- Boiler low-water alarm, Steam-. J. L. Fitzgerald. No. 1,130,385; Mar. 2; Gaz. vol. 212; p. 189.
- Boiler-pressure, Regulating. P. O. Kellholtz. No. 1,160,514; Nov. 16; Gaz. vol. 220; p. 824.
- Boiler purifier, Steam-. H. H. Ralph. No. 1,160,651; Nov. 16; Gaz. vol. 220; p. 876.
- Boiler safety attachment. C. W. Sullivan. No. 1,157,058; Oct. 19; Gaz. vol. 219; p. 660.
- Boiler safety device. D. J. Duggan. No. 1,129,561; Feb. 23; Gaz. vol. 211; p. 1139.
- Boiler safety-plug. J. A. Ricard. No. 1,159,710; Nov. 9; Gaz. vol. 220; p. 488.
- Boiler-scale, Removing. G. Jayne. No. 1,139,873; May 18; Gaz. vol. 214; p. 831.
- Boiler-setting. G. T. Ladd. No. 1,159,051; Nov. 2; Gaz. vol. 220; p. 221.
- Boiler-skimmer. N. Schreiber and R. Rosenthal. No. 1,165,717; Dec. 28; Gaz. vol. 221; p. 1168.
- Boiler stay-bolt. A. S. Greene. No. 1,161,659; Nov. 23; Gaz. vol. 220; p. 1275.
- Boiler stay-bolt. H. A. Lacerda. No. 1,130,525; Mar. 2; Gaz. vol. 212; p. 241.
- Boiler stay-bolt. G. Swartwood. No. 1,137,433; Apr. 27; Gaz. vol. 213; p. 1312.
- Boiler-support and clender-chute, Combined. B. Jacoby and C. S. Johnson. No. 1,159,497; Nov. 9; Gaz. vol. 220; p. 411.
- Boiler-tube. F. Burkett. No. 1,146,050; July 13; Gaz. vol. 216; p. 397.
- Boiler-tube cleaner. G. Burgess. (Reissue.) No. 13,966; Aug. 24; Gaz. vol. 217; p. 1306.
- Boiler-tube cleaner. F. W. Linaker. No. 1,157,114; Oct. 19; Gaz. vol. 219; p. 680.
- Boiler-tube cleaner, Percussive. W. Burlingham. No. 1,134,723; Apr. 6; Gaz. vol. 213; p. 234.
- Boiler-tube cleaner, Percussive. W. Burlingham. No. 1,151,510; Aug. 24; Gaz. vol. 217; p. 1285.
- Boiler-tube cleaner, Rotative. J. O. Casaday. No. 1,133,262; Mar. 30; Gaz. vol. 212; p. 1366.
- Boiler-tube expander. O. Wiedeke. No. 1,153,663; Sept. 14; Gaz. vol. 218; p. 497.
- Boiler-tube expanders, Extracting mandrels from. J. W. Faessler. No. 1,133,014; Mar. 23; Gaz. vol. 212; p. 1243.
- Boiler-tube retarder. D. E. Erickson. No. 1,156,281; Oct. 12; Gaz. vol. 219; p. 355.
- Boiler-tubes, Reading-tool for. H. E. Bush. No. 1,162,681; Nov. 30; Gaz. vol. 220; p. 1672.
- Boiler-tubes, Connecting-box for. C. Radiguer. No. 1,126,565; Jan. 26; Gaz. vol. 210; p. 1307.
- Boiler water-back. W. F. Sellers. No. 1,148,543; Aug. 3; Gaz. vol. 217; p. 21.
- Boiler water-circulating device. H. Thurston. No. 1,146,213; July 13; Gaz. vol. 216; p. 454.
- Boiler water-gage. W. S. Monroe and B. Schroeder. No. 1,148,523; Aug. 3; Gaz. vol. 217; p. 13.
- Boiler-water, System for purifying. F. E. Keyes. No. 1,166,222; Dec. 28; Gaz. vol. 221; p. 1348.
- Boilers, Adjusting device for draft-regulators for steam-. J. E. Sullivan. No. 1,143,737; June 22; Gaz. vol. 215; p. 1027.
- Boilers and the like, Automatic feed-regulator for steam-. E. Hannemann. No. 1,140,742; May 25; Gaz. vol. 214; p. 1169.
- Boilers, Apparatus for cleaning smoke-tubes of. C. H. Shepler and J. W. Shearer. No. 1,139,911; May 18; Gaz. vol. 214; p. 844.
- Boilers, Apparatus for cleaning smoke-tubes of marine and other multitubular. C. H. Shepler and J. W. Shearer. No. 1,139,910; May 18; Gaz. vol. 214; p. 844.
- Boilers, Automatic fuel-control system for. J. A. Doble. No. 1,131,683; Mar. 16; Gaz. vol. 212; p. 707.
- Boilers, Baffle for. J. T. Fennell. No. 1,124,405; Jan. 12; Gaz. vol. 210; p. 462.
- Boilers, Baffle for water-tube. G. Kuehne. No. 1,135,535; Apr. 13; Gaz. vol. 213; p. 557.
- Boilers, Baffle system for Stirling. D. S. Jacobus. No. 1,132,013; Mar. 16; Gaz. vol. 212; p. 827.
- Boilers, Baffle system for Stirling. D. S. Jacobus. No. 1,132,014; Mar. 16; Gaz. vol. 212; p. 828.
- Boilers, Baffle system for Stirling. D. S. Jacobus. No. 1,132,015; Mar. 16; Gaz. vol. 212; p. 828.
- Boilers, Blow-off cock for. R. L. Ingersoll and T. J. Douros. No. 1,146,797; July 20; Gaz. vol. 216; p. 678.
- Boilers, Construction of water-tube. R. Delaunay-Belleville. No. 1,132,458; Mar. 16; Gaz. vol. 212; p. 989.
- Boilers, Device for attaching flues to. P. Larony. No. 1,165,184; Dec. 21; Gaz. vol. 221; p. 943.
- Boilers, Device for regulating the water-level in. J. Lee. No. 1,154,327; Sept. 28; Gaz. vol. 218; p. 1131.
- Boilers, Feeding water to. R. W. Andrews. No. 1,148,483; July 27; Gaz. vol. 216; p. 1296.
- Boilers, Fusible safety-plug for. A. D. Towne. No. 1,150,647; Aug. 17; Gaz. vol. 217; p. 934.
- Boilers, heating-boilers for hot-water circulation, calorifiers, and the like, Prevention of pitting and corrosion in steam-. C. Haythorpe. No. 1,127,360; Feb. 2; Gaz. vol. 211; p. 242.
- Boilers, High-water control for multiple-drum. H. Duff and H. L. Smith. No. 1,159,193; Nov. 2; Gaz. vol. 220; p. 273.
- Boilers, Low-water safety apparatus for steam-. W. B. Haskins. No. 1,162,160; Nov. 30; Gaz. vol. 220; p. 1498.
- Boilers, Magnetic water-level indicator for steam-. P. W. Montgomery. No. 1,128,812; Feb. 16; Gaz. vol. 211; p. 840.
- Boilers, Manufacturing and applying washout-plugs to all steam-. T. F. Hayes. No. 1,132,260; Mar. 16; Gaz. vol. 212; p. 918.
- Boilers, Means for preventing incrustation of. W. Buckley. No. 1,133,092; Mar. 23; Gaz. vol. 212; p. 1270.
- Boilers, Sediment-collecting device and water-inlet for kitchen-. J. F. Polmann. No. 1,163,451; Dec. 7; Gaz. vol. 221; p. 251.
- Boilers, Soot-blower for water-tube. J. Magee. No. 1,161,088; Nov. 30; Gaz. vol. 220; p. 1473.
- Boilers, Soot-blower for water-tube. J. Magee. No. 1,161,089; Nov. 30; Gaz. vol. 220; p. 1473.
- Boilers, Soot-cleaner for water-tube. J. Magee. No. 1,160,306; Nov. 16; Gaz. vol. 220; p. 752.
- Boilers, Water-circulator for steam-. E. W. Bray. No. 1,139,334; May 11; Gaz. vol. 214; p. 603.
- Bolt-breaking machine. M. Bradford. No. 1,123,837; Jan. 5; Gaz. vol. 210; p. 217.
- Bolt breaking or crushing machine. J. T. South. No. 1,157,010; Oct. 26; Gaz. vol. 219; p. 1056.
- Bolt-weevil-destroying apparatus. D. H. and D. H. Britton, Jr. No. 1,146,687; July 13; Gaz. vol. 216; p. 620.
- Bolt-weevil-killing device. W. D. Robertshaw. No. 1,159,097; Nov. 2; Gaz. vol. 220; p. 237.
- Bolt-weevil-removing machine. J. R. Christopher. No. 1,156,208; Oct. 12; Gaz. vol. 219; p. 331.
- Bolt-weevil-removing machine. A. S. Coltharper. No. 1,149,500; Aug. 10; Gaz. vol. 217; p. 463.
- Bolt-weevils, Machine for catching. O. F. Riedsoe, Jr. No. 1,151,437; Aug. 24; Gaz. vol. 217; p. 1259.
- Bolster. W. S. Atwood. No. 1,123,636; Jan. 5; Gaz. vol. 210; p. 157.
- Bolster. F. Ditchfield. No. 1,123,257; Jan. 5; Gaz. vol. 210; p. 19.
- Bolster. F. Ditchfield. No. 1,143,615; June 22; Gaz. vol. 215; p. 987.
- Bolster. H. W. Elverson. No. 1,134,260; Apr. 6; Gaz. vol. 213; p. 65.
- Bolster. M. B. Giberson. No. 1,132,576; Mar. 23; Gaz. vol. 212; p. 1080.
- Bolster. A. M. Jostad. No. 1,140,831; May 25; Gaz. vol. 214; p. 1200.
- Bolster. J. F. Streib. No. 1,163,118; Dec. 7; Gaz. vol. 221; p. 133.
- Bolster, Collapsible bed-. F. W. Rahn. No. 1,139,719; May 18; Gaz. vol. 214; p. 777.
- Bolster end member. J. W. Rankin. No. 1,151,040; Aug. 24; Gaz. vol. 217; p. 1127.
- Bolster guide and damper. W. S. Adams. No. 1,135,483; Apr. 13; Gaz. vol. 213; p. 539.

Alphabetical list of inventions—Continued.

- Bolster guide and damper. W. S. Adams. No. 1,150,322; Aug. 17; Gaz. vol. 217; p. 821.
- Bolster-hanger. A. Christianson. No. 1,142,237; June 8; Gaz. vol. 215; p. 441.
- Bolster-stake, Folding. W. E. Rose. No. 1,157,584; Oct. 10; Gaz. vol. 219; p. 843.
- Bolster-stake holder. C. Faust. No. 1,139,655; May 18; Gaz. vol. 214; p. 754.
- Bolster-standard. A. Wepking. No. 1,150,469; Aug. 17; Gaz. vol. 217; p. 871.
- Bolt. *See*—
- | | |
|---------------------|------------------------|
| Boiler stay-bolt. | Lubricating-bolt. |
| Burglar-alarm bolt. | Panic-bolt. |
| Compound bolt. | Sash-bolt. |
| Door-bolt. | Screw-bolt. |
| Door safety-bolt. | Self-lubricating bolt. |
| Expansion-bolt. | Sheet-metal bolt. |
| Flush bolt. | Spring-bolt. |
| Lock-bolt. | Stay-bolt. |
| Locking-bolt. | Toggle-bolt. |
| Long bolt. | |
- Bolt. E. I. Dodds. No. 1,163,897; Dec. 14; Gaz. vol. 221; p. 452.
- Bolt. E. I. Dodds. No. 1,163,981; Dec. 14; Gaz. vol. 221; p. 481.
- Bolt. H. F. Pauley. No. 1,142,618; June 8; Gaz. vol. 215; p. 574.
- Bolt-anchor. H. W. Pleister. No. 1,155,613; Oct. 5; Gaz. vol. 219; p. 100.
- Bolt-anchor. H. W. Pleister. No. 1,155,614; Oct. 5; Gaz. vol. 219; p. 100.
- Bolt-anchor. H. W. Pleister. No. 1,155,615; Oct. 5; Gaz. vol. 219; p. 100.
- Bolt and nut lock. J. R. Hyde. No. 1,166,049; Dec. 28; Gaz. vol. 221; p. 1282.
- Bolt and nut therefor. T. Miller. No. 1,154,265; Sept. 21; Gaz. vol. 218; p. 741.
- Bolt construction, Panic. H. G. Voight. No. 1,125,222; Jan. 19; Gaz. vol. 210; p. 791.
- Bolt cutter and holder. A. F. Pine. No. 1,136,263; Apr. 20; Gaz. vol. 213; p. 854.
- Bolt cutter, Portable pneumatic stay-. A. M. Baird. No. 1,129,267; Feb. 23; Gaz. vol. 211; p. 1036.
- Bolt-head and making same. L. H. Brightman. No. 1,139,479; May 18; Gaz. vol. 214; p. 692.
- Bolt-holder. C. Brickey. No. 1,125,454; Jan. 19; Gaz. vol. 210; p. 875.
- Bolt-lock. W. H. A. Boon. No. 1,137,569; Apr. 27; Gaz. vol. 213; p. 1357.
- Bolt-lock. M. J. Jeannot. No. 1,166,220; Dec. 28; Gaz. vol. 221; p. 1346.
- Bolt-lock. C. H. L., F. W., and H. J. Mochow. No. 1,145,256; July 6; Gaz. vol. 216; p. 99.
- Bolt-lock. R. J. Robinson, Sr. No. 1,132,732; Mar. 23; Gaz. vol. 212; p. 1138.
- Bolt lock, Door-. W. C. Brinkerhoff. No. 1,126,375; Jan. 26; Gaz. vol. 210; p. 1236.
- Bolt lock, Door-. P. W. Smith. No. 1,159,877; Nov. 9; Gaz. vol. 220; p. 549.
- Bolt mechanism, Panic-. N. B. Hurd. No. 1,145,590; July 6; Gaz. vol. 216; p. 213.
- Bolt-operating mechanism. D. W. Tower. No. 1,136,498; Apr. 20; Gaz. vol. 213; p. 939.
- Bolt-tightener. F. H. Pierce. No. 1,152,215; Aug. 31; Gaz. vol. 217; p. 1575.
- Bolts, Combined guide and lock for Cremorne. R. R. Leeds. No. 1,158,816; Nov. 2; Gaz. vol. 220; p. 143.
- Bolts, Making. E. I. Dodds. No. 1,131,343; Mar. 9; Gaz. vol. 212; p. 554.
- Bolts, Making compound. J. A. Fraunheim. No. 1,135,516; Apr. 13; Gaz. vol. 213; p. 550.
- Bolts, Manufacturing. E. I. Dodds. No. 1,165,399; Dec. 28; Gaz. vol. 221; p. 1056.
- Bolting-cloth cleaner. A. C. Higginbotham. No. 1,142,096; June 8; Gaz. vol. 215; p. 393.
- Bomb. W. T. Lapuk. No. 1,147,177; July 20; Gaz. vol. 216; p. 810.
- Bomb-calorimeter. J. A. Riche. No. 1,163,367; Dec. 7; Gaz. vol. 221; p. 222.
- Bomb, Self-firing explosive. J. Dodgson. No. 1,161,461; Nov. 23; Gaz. vol. 220; p. 1208.
- Bomb, Submarine. D. B. Dunlop. No. 1,161,636; Nov. 23; Gaz. vol. 220; p. 1268.
- Bomb, Submarine. W. J. Hallock. No. 1,163,146; Dec. 7; Gaz. vol. 221; p. 143.
- Bombs from flying-machines to other objects, Means for attaching. F. A. Dugro. No. 1,146,695; July 13; Gaz. vol. 216; p. 622.
- Bone-burner. V. O. Ritchay and H. A. Trimmer. No. 1,160,657; Nov. 16; Gaz. vol. 220; p. 878.
- Bone-cutting machine. A. Roggenmoser. No. 1,132,976; Mar. 23; Gaz. vol. 212; p. 1229.
- Bonnet. N. F. Winget. No. 1,146,829; July 20; Gaz. vol. 216; p. 688.
- Bonnet-box, Folding. J. H. Cowlshaw. No. 1,148,502; Aug. 3; Gaz. vol. 217; p. 6.
- Book, Account-. E. F. Bredehaft. No. 1,158,892; Nov. 2; Gaz. vol. 220; p. 170.
- Book, Account-. H. Gibson. No. 1,160,276; Nov. 16; Gaz. vol. 220; p. 741.
- Book, Account-. J. H. and J. H. Rand, Jr. No. 1,151,820; Aug. 31; Gaz. vol. 217; p. 1440.
- Book, Account-. J. T. Willis. No. 1,124,090; Jan. 5; Gaz. vol. 210; p. 303.
- Book and binding. M. Willinger and P. Ravis. No. 1,163,297; Dec. 7; Gaz. vol. 221; p. 196.
- Book and checking and containing device, Combined order-. E. J. Hoskins. No. 1,164,612; Dec. 14; Gaz. vol. 221; p. 700.
- Book and holder for same, Note-. C. J. Brown. No. 1,152,702; Sept. 7; Gaz. vol. 218; p. 119.
- Book and stand. H. C. Miller. No. 1,146,895; July 20; Gaz. vol. 216; p. 711.
- Book and the like, Loose-leaf. H. H. H. Ahearn. No. 1,131,648; Mar. 16; Gaz. vol. 212; p. 695.
- Book and wrapper for the stubs thereof, Check-. O. E. Schaefer. No. 1,126,878; Feb. 2; Gaz. vol. 211; p. 76.
- Book, Blank-form. A. M. Sinclair. No. 1,134,766; Apr. 6; Gaz. vol. 213; p. 250.
- Book carrier and cover. C. S. Gould. No. 1,136,598; Apr. 20; Gaz. vol. 213; p. 974.
- Book, Coupon-. H. I. Wainwright and M. V. Ahern. No. 1,132,641; Mar. 23; Gaz. vol. 212; p. 1105.
- Book-cover. F. E. Housh. No. 1,162,484; Nov. 30; Gaz. vol. 220; p. 1609.
- Book-cover. G. Seelman, Jr. No. 1,157,810; Oct. 26; Gaz. vol. 219; p. 985.
- Book, Educational record-. W. A. Wheatley. No. 1,158,606; Nov. 2; Gaz. vol. 220; p. 70.
- Book gathering and stacking machine. C. A. Cheshire. No. 1,160,845; Nov. 16; Gaz. vol. 220; p. 944.
- Book-hanger. J. Morgan. No. 1,133,655; Mar. 30; Gaz. vol. 212; p. 1508.
- Book-holder. H. M. Cooper. No. 1,124,394; Jan. 12; Gaz. vol. 210; p. 459.
- Book holder, Manifold-sales-. E. J. Carter. No. 1,165,748; Dec. 28; Gaz. vol. 221; p. 1179.
- Book-leaf holder. G. F. Barnes. No. 1,160,237; Nov. 16; Gaz. vol. 220; p. 728.
- Book-lock. W. E. S. Strong and N. Macy. No. 1,156,641; Oct. 12; Gaz. vol. 219; p. 484.
- Book, Loose-leaf. C. E. Auracher. No. 1,146,915; July 20; Gaz. vol. 216; p. 719.
- Book, Loose-leaf. F. E. Housh. No. 1,162,485; Nov. 30; Gaz. vol. 220; p. 1609.
- Book, Loose-leaf. J. W. Myatt. No. 1,158,262; Oct. 26; Gaz. vol. 219; p. 1144.
- Book, Loose-leaf statement-. L. C. Van Voorhis. No. 1,163,384; Dec. 7; Gaz. vol. 221; p. 227.
- Book-making. W. A. Wood. No. 1,159,459; Nov. 9; Gaz. vol. 220; p. 399.
- Book, Manifolding-. E. Z. Lewis. No. 1,156,411; Oct. 12; Gaz. vol. 219; p. 403.
- Book, Manifolding sales-. R. R. Barber. No. 1,157,142; Oct. 19; Gaz. vol. 219; p. 689.
- Book, Manifolding sales-. E. K. Bottle. No. 1,150,096; Aug. 17; Gaz. vol. 217; p. 740.
- Book, Manifolding sales-. E. K. Bottle. No. 1,157,290; Oct. 19; Gaz. vol. 219; p. 743.
- Book, Manifolding sales-. E. K. Bottle. No. 1,158,889; Nov. 2; Gaz. vol. 220; p. 169.
- Book, Manifolding sales-. E. K. Bottle. No. 1,160,248; Nov. 16; Gaz. vol. 220; p. 732.
- Book, Manifolding sales-. E. K. Bottle. No. 1,165,938; Dec. 28; Gaz. vol. 221; p. 1243.
- Book, Manifolding sales-. G. E. Doughty. No. 1,153,611; Sept. 14; Gaz. vol. 218; p. 481.
- Book, Manifolding sales-. W. Greig. No. 1,161,306; Nov. 23; Gaz. vol. 220; p. 1154.
- Book, Manifolding sales-. W. Greig. No. 1,165,590; Dec. 28; Gaz. vol. 221; p. 1122.
- Book-marker. H. G. Child. No. 1,124,591; Jan. 12; Gaz. vol. 210; p. 531.
- Book-marker. H. G. Heazlewood. No. 1,150,678; Aug. 17; Gaz. vol. 217; p. 945.
- Book, Match-. C. Campus. No. 1,125,647; Jan. 19; Gaz. vol. 210; p. 941.
- Book, Memorandum-. B. Stember. No. 1,150,716; Aug. 17; Gaz. vol. 217; p. 957.
- Book, Multicolor manifolding sales-. E. K. Bottle. No. 1,151,655; Aug. 31; Gaz. vol. 217; p. 1382.
- Book-pad clamp, Sales-. G. H. Baughman and F. J. Semradek. No. 1,156,876; Oct. 19; Gaz. vol. 219; p. 595.
- Book, Play-. M. C. Robinson. No. 1,155,959; Oct. 5; Gaz. vol. 219; p. 221.
- Book, Record-. F. W. Davis. No. 1,138,636; May 11; Gaz. vol. 214; p. 357.
- Book, Record-. A. H. Wheeler. No. 1,126,165; Jan. 26; Gaz. vol. 210; p. 1161.
- Book, Route-. J. Koenen. No. 1,161,482; Nov. 23; Gaz. vol. 220; p. 1215.
- Book, Sales-. C. W. Potter. No. 1,164,748; Dec. 21; Gaz. vol. 221; p. 789.
- Book, Sample-. W. Fach. No. 1,145,131; July 6; Gaz. vol. 216; p. 55.
- Book, Scrap-. I. R. Allen. No. 1,161,580; Nov. 23; Gaz. vol. 220; p. 1250.
- Book-stack, Library. W. A. Borden. No. 1,165,566; Dec. 28; Gaz. vol. 221; p. 1112.
- Book-stripping machine. E. M. Brackett. No. 1,124,205; Jan. 5; Gaz. vol. 210; p. 344.
- Book-support and leaf-turner, Combined. F. G. Baehr. No. 1,151,647; Aug. 31; Gaz. vol. 217; p. 1379.

- Book, Trade-. R. L. Crandall. No. 1,132,516; Mar. 16; Gaz. vol. 212; p. 1011.
- Book, Triplicating sales-. W. S. Birdsall. No. 1,147,922; July 27; Gaz. vol. 216; p. 1098.
- Books and magazines, Holder for-. J. W. Connella. No. 1,160,851; Nov. 16; Gaz. vol. 220; p. 946.
- Books, Combined cover and index for-. E. J. Mills. No. 1,134,544; Apr. 6; Gaz. vol. 213; p. 168.
- Books, Leaf for fly-. F. H. Mayer. No. 1,148,111; July 27; Gaz. vol. 216; p. 1167.
- Books, Machine for applying fly-leaves and the like to the signatures of-. W. I. Lewis. No. 1,127,034; Feb. 2; Gaz. vol. 211; p. 132.
- Books, Thumb-piece for manifold sales or order-. O. S. Gauch. No. 1,157,377; Oct. 19; Gaz. vol. 219; p. 773.
- Bookbinder-. T. Daniels. No. 1,154,489; Sept. 21; Gaz. vol. 218; p. 817.
- Bookbinder-. P. Nyboe. No. 1,139,057; May 11; Gaz. vol. 214; p. 509.
- Bookbinder, Locking-. F. E. Housh. No. 1,127,004; Feb. 2; Gaz. vol. 211; p. 120.
- Bookblinder's extensible spring-. E. J. Sonnenburg. No. 1,123,608; Jan. 5; Gaz. vol. 210; p. 141.
- Bookbinding-. C. F. McBee. No. 1,131,142; Apr. 6; Gaz. vol. 213; p. 21.
- Bookbinding-. E. K. Robinson. No. 1,148,123; July 27; Gaz. vol. 216; p. 1172.
- Bookbinding apparatus-. J. Trümper. No. 1,131,877; Mar. 16; Gaz. vol. 212; p. 778.
- Bookbinding, Attachment to casing-in machines used in-. C. L. Gruneisen and J. T. Hircocock. No. 1,125,309; Jan. 19; Gaz. vol. 210; p. 822.
- Bookbinding-machine-. A. Bredenberg. No. 1,129,064; Feb. 23; Gaz. vol. 211; p. 964.
- Bookbinding-machine-. F. A. Rlsberg. No. 1,152,907; Sept. 7; Gaz. vol. 218; p. 194.
- Bookbinding means for pamphlets and signatures-. J. B. West. No. 1,143,562; June 15; Gaz. vol. 215; p. 943.
- Bookcase, desk, and mantel, Combined-. F. E. Smith and J. Martin. No. 1,164,024; Dec. 14; Gaz. vol. 221; p. 497.
- Boom, Extension-. N. E. Andersen. No. 1,163,497; Dec. 7; Gaz. vol. 221; p. 266.
- Boom-operating mechanism-. O. Crosby. No. 1,153,034; Sept. 7; Gaz. vol. 218; p. 238.
- Boot and shoe-. W. B. Arnold. No. 1,143,481; June 15; Gaz. vol. 215; p. 916.
- Boot and shoe-. K. Engel. No. 1,149,189; Aug. 10; Gaz. vol. 217; p. 351.
- Boot and shoe-. C. A. Sharp. No. 1,157,330; Oct. 19; Gaz. vol. 219; p. 757.
- Boot and shoe-. K. A. Strlitter. No. 1,161,083; Nov. 23; Gaz. vol. 220; p. 1072.
- Boot and shoe cleaning device-. L. L. Clippinger. No. 1,149,729; Aug. 10; Gaz. vol. 217; p. 547.
- Boot and shoe fastening-. S. Weatherley. No. 1,142,546; June 8; Gaz. vol. 215; p. 550.
- Boot and shoe jack-. W. Gordon. No. 1,145,986; July 13; Gaz. vol. 216; p. 373.
- Boot and shoe protector, Metal-. J. T. Hannon. No. 1,146,157; July 13; Gaz. vol. 216; p. 434.
- Boot and shoe straps, Machine for covering-. E. A. Stiggins. No. 1,127,541; Feb. 9; Gaz. vol. 211; p. 347.
- Boot and shoe treating machine-. W. H. Hooper. No. 1,161,936; Nov. 30; Gaz. vol. 220; p. 1419.
- Boot and shoe tree-. H. Buchner. No. 1,130,707; Mar. 9; Gaz. vol. 212; p. 337.
- Boot and shoe uppers, Lacing or fastening-. G. Lewis. No. 1,161,871; Nov. 30; Gaz. vol. 220; p. 1395.
- Boot and shoe uppers, Machine for forming-. I. W. Blanchard. No. 1,148,744; Aug. 3; Gaz. vol. 217; p. 95.
- Boot and shoe uppers, Machine for forming-. I. W. Blanchard. No. 1,161,019; Nov. 23; Gaz. vol. 220; p. 1050.
- Boot-fastening-. F. J. O'Brien. No. 1,148,983; Aug. 3; Gaz. vol. 217; p. 176.
- Boot or shoe-. A. C. Becker. No. 1,154,360; Sept. 21; Gaz. vol. 218; p. 775.
- Boot or shoe-. M. H. Clark. No. 1,162,454; Nov. 30; Gaz. vol. 220; p. 1598.
- Boot or shoe-. H. W. Stedler. No. 1,130,854; Mar. 9; Gaz. vol. 212; p. 387.
- Boot or shoe upper, Machine for shaping the materials of the rear portion of a-. J. Gouldbourn, A. Bates, and A. E. Jerram. No. 1,156,897; Oct. 19; Gaz. vol. 219; p. 603.
- Boot or shoe, Waterproof-. C. A. Paige. No. 1,161,720; Nov. 23; Gaz. vol. 220; p. 1296.
- Boot-scraper-. P. H. Bauman. No. 1,132,646; Mar. 23; Gaz. vol. 212; p. 1107.
- Boot, shoe, and the like-. S. Trolle. No. 1,141,889; June 1; Gaz. vol. 215; p. 280.
- Boot, Skating and hockey-. A. L. Johnson. No. 1,139,530; May 18; Gaz. vol. 214; p. 709.
- Boot-top-. C. Tweedie. No. 1,153,977; Sept. 21; Gaz. vol. 218; p. 642.
- Boot-tree-. J. E. Kaye. No. 1,147,735; July 27; Gaz. vol. 216; p. 1033.
- Boots and shoes, Apparatus for making-. R. F. McFeely. No. 1,135,952; Apr. 13; Gaz. vol. 213; p. 704.
- Boots and shoes, Apparatus for use in the manufacture of-. G. E. Hallquist. No. 1,160,165; Nov. 16; Gaz. vol. 220; p. 704.
- Boots and shoes, Apparatus for use in the manufacture of-. J. A. Keay. No. 1,135,024; Apr. 13; Gaz. vol. 213; p. 381.
- Boots and shoes, Apparatus for use in the manufacture of-. A. L. Russell. No. 1,124,957; Jan. 12; Gaz. vol. 210; p. 661.
- Boots and shoes, Apparatus for use in the manufacture of-. F. J. Wentworth. No. 1,138,584; May 4; Gaz. vol. 214; p. 300.
- Boots and shoes, Elastic and ventilated tread for-. W. Gerlach. No. 1,144,188; June 22; Gaz. vol. 215; p. 1186.
- Boots and shoes for the sewing operation, Machine for preparing lasted-. F. L. MacKenzie. No. 1,126,244; Jan. 26; Gaz. vol. 210; p. 1191.
- Boots and shoes, Machine for operating upon-. J. B. Hadaway. No. 1,147,017; July 20; Gaz. vol. 216; p. 755.
- Boots and shoes, Machine for operating upon-. R. C. Simmons. No. 1,145,390; July 6; Gaz. vol. 216; p. 144.
- Boots and shoes, Machine for the manufacture of-. E. Brothers. No. 1,135,945; Apr. 13; Gaz. vol. 213; p. 700.
- Boots and shoes, Machine for trimming the rands of-. L. S. Sweeney. No. 1,135,223; Apr. 13; Gaz. vol. 213; p. 448.
- Boots and shoes, Machine for use in the manufacture of-. O. Ashton. No. 1,137,564; Apr. 27; Gaz. vol. 213; p. 1355.
- Boots and shoes, Machine for use in the manufacture of-. A. Bates. No. 1,140,349; May 25; Gaz. vol. 214; p. 1031.
- Boots and shoes, Machine for use in the manufacture of-. A. Bates. No. 1,141,302; June 1; Gaz. vol. 215; p. 77.
- Boots and shoes, Machine for use in the manufacture of-. W. H. Borden. No. 1,145,055; July 6; Gaz. vol. 216; p. 30.
- Boots and shoes, Machine for use in the manufacture of-. E. Brothers. No. 1,135,948; Apr. 13; Gaz. vol. 213; p. 702.
- Boots and shoes, Machine for use in the manufacture of-. J. Cavanagh. No. 1,163,599; Dec. 7; Gaz. vol. 221; p. 302.
- Boots and shoes, Machine for use in the manufacture of-. K. Engel. No. 1,142,557; June 8; Gaz. vol. 215; p. 554.
- Boots and shoes, Machine for use in the manufacture of-. E. L. Keyes. No. 1,143,712; June 22; Gaz. vol. 215; p. 1019.
- Boots and shoes, Machine for use in the manufacture of-. R. F. McFeely. No. 1,129,881; Mar. 2; Gaz. vol. 212; p. 17.
- Boots and shoes, Machine for use in the manufacture of-. R. F. McFeely. No. 1,135,949; Apr. 13; Gaz. vol. 213; p. 702.
- Boots and shoes, Machine for use in the manufacture of-. R. F. McFeely. No. 1,135,950; Apr. 13; Gaz. vol. 213; p. 703.
- Boots and shoes, Machine for wax-treating parts of-. C. Pease. No. 1,141,263; June 1; Gaz. vol. 215; p. 61.
- Boots and shoes, Making-. P. W. Shaw. No. 1,141,840; June 1; Gaz. vol. 215; p. 263.
- Boots and shoes, Making and incorporating stiffening-pieces in the forepart of-. R. P. Elliott. No. 1,137,850; May 4; Gaz. vol. 214; p. 44.
- Boots and shoes, Making pull-on devices for-. E. C. Jacobs. No. 1,124,139; Jan. 5; Gaz. vol. 210; p. 320.
- Boots and shoes, Manufacture of-. T. Lund. No. 1,124,928; Jan. 12; Gaz. vol. 210; p. 650.
- Boots and shoes, Manufacture of-. P. J. Wentworth. No. 1,138,585; May 4; Gaz. vol. 214; p. 300.
- Boots and shoes, Manufacturing-. J. H. Waite. No. 1,133,766; Mar. 30; Gaz. vol. 212; p. 1546.
- Boots and shoes, Metal protector for the foreparts of-. J. T. Hannon. No. 1,129,195; Feb. 23; Gaz. vol. 211; p. 1010.
- Boots and shoes, Production of-. G. B. Binette. No. 1,138,444; May 4; Gaz. vol. 214; p. 255.
- Boots and shoes, Steaming device for steaming the tips or boxes and vamps of-. G. M. Fitzpatrick. No. 1,132,518; Mar. 16; Gaz. vol. 212; p. 1012.
- Boots and shoes without lasting, Manufacturing welts of-. E. Langenohl. No. 1,138,961; May 11; Gaz. vol. 214; p. 473.
- Boots or shoes, Making-. C. F. Pym. No. 1,126,271; Jan. 26; Gaz. vol. 210; p. 1199.
- Booth, Collapsible-. E. S. Messer. No. 1,134,399; Apr. 6; Gaz. vol. 213; p. 115.
- Borates containing active oxygen, Mixture of-. F. L. Schmidt. No. 1,155,101; Sept. 28; Gaz. vol. 218; p. 1058.
- Borates containing active oxygen, Mixture of-. F. L. Schmidt. No. 1,155,103; Sept. 28; Gaz. vol. 218; p. 1058.
- Border-cutting machine-. W. H. Waldron. No. 1,136,741; Apr. 20; Gaz. vol. 213; p. 1025.
- Bores, Forming polygonal-. J. W. Meaker. No. 1,144,425; June 29; Gaz. vol. 215; p. 1297.
- Boring and drilling machine-. C. J. Olson. No. 1,132,113; Mar. 16; Gaz. vol. 212; p. 863.
- Boring and facing bar-. W. F. Spoehr. No. 1,131,871; Mar. 16; Gaz. vol. 212; p. 776.

Alphabetical list of inventions—Continued.

- Boring and turning machine feeder. W. C. Farnum. No. 1,164,272; Dec. 14; Gaz. vol. 221; p. 581.
- Boring-bar. G. W. Cuyler. No. 1,126,715; Feb. 2; Gaz. vol. 211; p. 17.
- Boring-bar. E. Newitt. No. 1,143,988; June 22; Gaz. vol. 215; p. 1114.
- Boring-bar. E. C. Schmeltzopf. No. 1,144,795; June 29; Gaz. vol. 215; p. 1423.
- Boring-bar holder, Interchangeable. C. Price. No. 1,125,170; Jan. 19; Gaz. vol. 210; p. 772.
- Boring-bars and the like, Adjustable cutter for. T. E. Pattinson. No. 1,140,261; May 18; Gaz. vol. 214; p. 966.
- Boring-drill, Revolving-cutter rotary. C. E. Reed. No. 1,159,087; Nov. 2; Gaz. vol. 220; p. 234.
- Boring-drill, Revolving-cutter rotary. C. E. Reed. No. 1,159,088; Nov. 2; Gaz. vol. 220; p. 234.
- Boring-drill, Roller. H. R. Hughes. No. 1,130,289; Mar. 2; Gaz. vol. 212; p. 156.
- Boring-drill, Roller. H. R. Hughes. No. 1,130,290; Mar. 2; Gaz. vol. 212; p. 156.
- Boring-drill, Rotary. H. R. Hughes. No. 1,124,241; Jan. 5; Gaz. vol. 210; p. 357.
- Boring-drill, Rotary. H. R. Hughes. No. 1,124,242; Jan. 5; Gaz. vol. 210; p. 357.
- Boring drill, Rotary. H. R. Hughes. No. 1,131,701; Mar. 16; Gaz. vol. 212; p. 713.
- Boring-drill, Rotary. H. R. Hughes. No. 1,143,272; June 15; Gaz. vol. 215; p. 843.
- Boring-drill, Rotary-disk. H. R. Hughes. No. 1,143,274; June 15; Gaz. vol. 215; p. 844.
- Boring holes in the earth, Machine for. J. V. Gudmund-Hoyer. No. 1,139,275; May 11; Gaz. vol. 214; p. 583.
- Boring-machine. G. Forbes and T. Holt. No. 1,165,328; Dec. 21; Gaz. vol. 221; p. 991.
- Boring-machine. T. F. Seitz. No. 1,147,898; July 27; Gaz. vol. 216; p. 1090.
- Boring-machine. W. C. Stephenson. No. 1,124,549; Jan. 12; Gaz. vol. 210; p. 516.
- Boring-machine. A. Storm and E. C. O'Hair. No. 1,146,665; July 13; Gaz. vol. 216; p. 612.
- Boring-machine. C. A. White. No. 1,124,826; Jan. 12; Gaz. vol. 210; p. 615.
- Boring-machine, Multiple-spindle. R. E. Kidder. No. 1,151,018; Aug. 24; Gaz. vol. 217; p. 1118.
- Boring machine, Wood. A. E. Mitchell. No. 1,136,031; Apr. 20; Gaz. vol. 213; p. 773.
- Boring-mill. W. J. Hagman and E. H. Wray. No. 1,141,871; June 1; Gaz. vol. 215; p. 272.
- Boring-tool. A. S. Goodwin. No. 1,137,603; Apr. 27; Gaz. vol. 213; p. 1368.
- Boring-tool. E. O. Hickey. No. 1,162,163; Nov. 30; Gaz. vol. 220; p. 1499.
- Boring-tool-guiding apparatus. J. J. Kelley. No. 1,161,479; Nov. 23; Gaz. vol. 220; p. 1215.
- Boring-tool holder. E. J. Bryant. No. 1,153,673; Sept. 14; Gaz. vol. 218; p. 501.
- Boring-tool holder, Adjustable. W. C. Morris. No. 1,133,169; Mar. 23; Gaz. vol. 212; p. 1298.
- Boron carbonitrid, Producing. S. Peacock. No. 1,129,508; Feb. 23; Gaz. vol. 211; p. 1120.
- Boron nitrid, Making. G. Weintraub. No. 1,135,232; Apr. 13; Gaz. vol. 213; p. 451.
- Bosom-board. L. H. Freeman. No. 1,144,118; June 22; Gaz. vol. 215; p. 1162.
- Bottle. B. S. Alsop. No. 1,125,034; Jan. 19; Gaz. vol. 210; p. 723.
- Bottle. B. S. Alsop. No. 1,155,333; Oct. 5; Gaz. vol. 219; p. 3.
- Bottle. H. Cremer. No. 1,130,069; Mar. 2; Gaz. vol. 212; p. 80.
- Bottle. B. J. Cunningham. No. 1,158,987; Nov. 2; Gaz. vol. 220; p. 200.
- Bottle. A. German. No. 1,125,834; Jan. 19; Gaz. vol. 210; p. 1008.
- Bottle. G. Hatvany. No. 1,147,629; July 20; Gaz. vol. 216; p. 969.
- Bottle. W. A. Hayworth. No. 1,127,993; Feb. 9; Gaz. vol. 211; p. 506.
- Bottle. C. S. Jackson and A. Schindler. No. 1,124,743; Jan. 12; Gaz. vol. 210; p. 585.
- Bottle. M. Lutenberger. No. 1,136,250; Apr. 20; Gaz. vol. 213; p. 849.
- Bottle. Z. G. Magnea. No. 1,159,057; Nov. 2; Gaz. vol. 220; p. 224.
- Bottle. H. E. Miller. No. 1,154,931; Sept. 28; Gaz. vol. 218; p. 997.
- Bottle. R. D. Muro. No. 1,146,809; July 20; Gaz. vol. 216; p. 682.
- Bottle. H. A. Slattengren. No. 1,127,687; Feb. 9; Gaz. vol. 211; p. 395.
- Bottle. B. O. Snellings. No. 1,164,555; Dec. 14; Gaz. vol. 221; p. 682.
- Bottle. M. E. Sterrett. No. 1,127,694; Feb. 9; Gaz. vol. 211; p. 398.
- Bottle and cap fastener. G. A. Williams. No. 1,130,783; Mar. 9; Gaz. vol. 212; p. 363.
- Bottle and cap fastener. G. A. Williams. No. 1,132,140; Mar. 16; Gaz. vol. 212; p. 874.
- Bottle and cap therefor. H. R. Ipsen. No. 1,124,450; Jan. 12; Gaz. vol. 210; p. 480.
- Bottle and closure means therefor. F. L. Fisher. No. 1,129,283; Feb. 23; Gaz. vol. 211; p. 1041.
- Bottle and closure therefor. S. S. Williamson and G. R. Carothers. No. 1,131,304; Mar. 9; Gaz. vol. 212; p. 542.
- Bottle and cutter, Non-refillable. D. J. Fleming. No. 1,152,015; Aug. 31; Gaz. vol. 217; p. 1506.
- Bottle and dropping device, Combined. F. S. Hereth. No. 1,142,517; June 8; Gaz. vol. 215; p. 541.
- Bottle and heater for fountain-syringes, Combined water. C. W. Meinecke. No. 1,161,401; Nov. 23; Gaz. vol. 220; p. 1188.
- Bottle and jar closure. O. A. J. Becher. No. 1,140,103; May 18; Gaz. vol. 214; p. 914.
- Bottle and jar lock. L. M. Mills. No. 1,155,947; Oct. 5; Gaz. vol. 219; p. 216.
- Bottle and like vessel, Non-refillable. G. M. and L. M. Palmer. No. 1,123,580; Jan. 5; Gaz. vol. 210; p. 131.
- Bottle and like vessel, Non-refillable. G. M. and L. M. Palmer. No. 1,142,978; June 15; Gaz. vol. 215; p. 740.
- Bottle and syringe, Combined hot-water. M. E. Starr. No. 1,157,439; Oct. 19; Gaz. vol. 219; p. 796.
- Bottle, Antirefillable. H. Schultz. No. 1,138,419; May 4; Gaz. vol. 214; p. 246.
- Bottle attachment. J. B. Clayton. No. 1,128,849; Feb. 16; Gaz. vol. 211; p. 852.
- Bottle attachment. G. J. Munsch. No. 1,154,535; Sept. 21; Gaz. vol. 218; p. 833.
- Bottle-blowing machinery. W. Schneegluth. No. 1,148,338; July 27; Gaz. vol. 216; p. 1248.
- Bottle-brushing machine. J. W. Dawson. No. 1,161,458; Nov. 23; Gaz. vol. 220; p. 1207.
- Bottle-cap. P. D. Belles. No. 1,164,453; Dec. 14; Gaz. vol. 221; p. 647.
- Bottle-cap. E. L. Blakeslee. No. 1,158,622; Nov. 2; Gaz. vol. 220; p. 75.
- Bottle-cap. C. V. Gavaza. No. 1,127,357; Feb. 2; Gaz. vol. 211; p. 241.
- Bottle-cap. J. S. and I. Kaufman. No. 1,124,141; Jan. 5; Gaz. vol. 210; p. 320.
- Bottle-cap. G. W. Mitchell. No. 1,139,792; May 18; Gaz. vol. 214; p. 802.
- Bottle-cap. P. H. Quinn. No. 1,128,509; Feb. 16; Gaz. vol. 211; p. 735.
- Bottle-cap. I. B. Rosencrantz. No. 1,153,706; Sept. 14; Gaz. vol. 218; p. 514.
- Bottle-cap. L. H. Rossuck. No. 1,165,131; Dec. 21; Gaz. vol. 221; p. 925.
- Bottle-cap. C. R. Schultz. No. 1,145,805; July 6; Gaz. vol. 216; p. 290.
- Bottle-cap. E. Williams. No. 1,141,738; June 1; Gaz. vol. 215; p. 230.
- Bottle-cap and opener. F. G. Smith. No. 1,155,285; Sept. 28; Gaz. vol. 218; p. 1116.
- Bottle-cap and remover, Combined. F. C. Wallace and C. F. Forsyth. (Reissue.) No. 13,908; Apr. 27; Gaz. vol. 213; p. 1412.
- Bottle-cap-assembling machine. R. G. Clark. No. 1,134,031; Mar. 30; Gaz. vol. 212; p. 1636.
- Bottle-cap-assembling machine. J. C. Forrester. No. 1,131,355; Mar. 9; Gaz. vol. 212; p. 558.
- Bottle-cap-assembling machine. J. C. Forrester. No. 1,135,513; Apr. 13; Gaz. vol. 213; p. 550.
- Bottle-cap-assembling machine. J. Sturtevant and J. T. Weinzler. No. 1,155,171; Sept. 28; Gaz. vol. 218; p. 1082.
- Bottle-cap, Detachable. G. W. Beadle. No. 1,153,477; Sept. 14; Gaz. vol. 218; p. 432.
- Bottle-cap, Manually-removable. E. H. Hosier. No. 1,130,905; Mar. 9; Gaz. vol. 212; p. 405.
- Bottle-cap manufacture. J. C. Forrester. No. 1,131,354; Mar. 9; Gaz. vol. 212; p. 558.
- Bottle cap, Milk. G. A. Caspers and N. S. Deutsch. No. 1,163,968; Dec. 14; Gaz. vol. 221; p. 477.
- Bottle cap, Milk. A. W. Weber. No. 1,142,291; June 8; Gaz. vol. 215; p. 460.
- Bottle-cap opener. B. T. Breithut. No. 1,123,234; Jan. 5; Gaz. vol. 210; p. 11.
- Bottle cap or closure. C. Hammer. No. 1,160,982; Nov. 16; Gaz. vol. 220; p. 992.
- Bottle cap or cover, Milk. D. Haslup. No. 1,151,875; Aug. 31; Gaz. vol. 217; p. 1459.
- Bottle cap or seal. L. Bartlett. No. 1,135,094; Apr. 13; Gaz. vol. 213; p. 405.
- Bottle-cap perforator and remover. J. R. Neff. No. 1,154,718; Sept. 28; Gaz. vol. 218; p. 925.
- Bottle-cap remover. E. T. Allison. No. 1,150,160; Aug. 17; Gaz. vol. 217; p. 764.
- Bottle-caps and similar articles, Machine for cutting slits in. E. S. Norton. No. 1,136,162; Apr. 20; Gaz. vol. 213; p. 818.
- Bottle-caps, Forming. H. M. Cake. No. 1,131,676; Mar. 16; Gaz. vol. 212; p. 705.
- Bottle capping and sealing machine. J. Bradley. No. 1,160,369; Nov. 16; Gaz. vol. 220; p. 773.
- Bottle-capping device. G. A. Williams. No. 1,126,330; Jan. 26; Gaz. vol. 210; p. 1221.
- Bottle-capping machine. J. Bardsley. No. 1,127,348; Feb. 2; Gaz. vol. 211; p. 237.
- Bottle-capping machine. G. Falling. No. 1,143,819; June 22; Gaz. vol. 215; p. 1055.

Alphabetical list of inventions—Continued.

- Bottle-capping machine. J. J. Gaynor. No. 1,140,031; May 18; Gaz. vol. 214; p. 887.
- Bottle-capping machine. J. J. Gaynor. No. 1,155,908; Oct. 5; Gaz. vol. 219; p. 203.
- Bottle-capping machine. J. J. Gaynor and P. C. Lieber. No. 1,134,676; Apr. 6; Gaz. vol. 213; p. 217.
- Bottle-capping machine. J. J. Gaynor and P. C. Lieber. No. 1,135,680; Apr. 13; Gaz. vol. 213; p. 610.
- Bottle-capping machine. J. J. Gaynor and P. C. Lieber. No. 1,136,467; Apr. 20; Gaz. vol. 213; p. 928.
- Bottle-capping machine. J. J. Gaynor and P. C. Lieber. No. 1,149,821; Aug. 10; Gaz. vol. 217; p. 581.
- Bottle-capping machine. J. J. Gaynor and P. C. Lieber. No. 1,151,456; Aug. 24; Gaz. vol. 217; p. 1265.
- Bottle-capping machine. A. Jörn. No. 1,159,844; Nov. 9; Gaz. vol. 220; p. 538.
- Bottle-capping machine. T. J. Levey. No. 1,160,084; Nov. 9; Gaz. vol. 220; p. 620.
- Bottle-capping machine. G. G. Loehler. No. 1,134,626; Apr. 6; Gaz. vol. 213; p. 198.
- Bottle-capping machine. F. Müller. No. 1,159,251; Nov. 2; Gaz. vol. 220; p. 293.
- Bottle-capping machine. A. D. Ray and C. N. Russell. No. 1,141,267; June 1; Gaz. vol. 215; p. 63.
- Bottle-capping machine. T. L. Valerius. No. 1,134,168; Apr. 6; Gaz. vol. 213; p. 30.
- Bottle-capping machines. Seal-feed for. C. Winter. No. 1,140,090; May 18; Gaz. vol. 214; p. 908.
- Bottle-capping mechanism. T. L. Valerius and O. Larsen. No. 1,139,931; May 18; Gaz. vol. 214; p. 851.
- Bottle-carrier. C. L. Cederholm. No. 1,151,163; Aug. 24; Gaz. vol. 217; p. 1168.
- Bottle-case. G. Langseth. No. 1,154,702; Sept. 28; Gaz. vol. 218; p. 920.
- Bottle case, Milk-. R. A. Waldman. No. 1,125,781; Jan. 19; Gaz. vol. 210; p. 991.
- Bottle casing, Vacuum-. J. F. Lamb. No. 1,147,632; July 20; Gaz. vol. 216; p. 970.
- Bottle casing, Vacuum-. J. F. Lamb. (Reissue.) No. 1,4038; Dec. 28; Gaz. vol. 221; p. 1420.
- Bottle cleaning and polishing device. A. D. Shaw and G. Wicks. No. 1,144,734; June 29; Gaz. vol. 215; p. 1402.
- Bottle-closure. F. W. Bellois. No. 1,131,985; Mar. 16; Gaz. vol. 212; p. 818.
- Bottle-closure. G. J. Bohlman. No. 1,161,797; Nov. 23; Gaz. vol. 220; p. 1324.
- Bottle-closure. F. R. Bonn and B. D. Hamill. No. 1,163,805; Dec. 14; Gaz. vol. 221; p. 421.
- Bottle-closure. A. H. Breslove and A. Wetzlg. No. 1,155,639; Oct. 5; Gaz. vol. 219; p. 109.
- Bottle-closure. J. B. Conde. No. 1,164,258; Dec. 14; Gaz. vol. 221; p. 576.
- Bottle-closure. H. Cremer. No. 1,154,290; Sept. 21; Gaz. vol. 218; p. 750.
- Bottle-closure. H. Cremer. No. 1,154,291; Sept. 21; Gaz. vol. 218; p. 750.
- Bottle-closure. J. L. Dunnock. No. 1,158,462; Nov. 2; Gaz. vol. 220; p. 18.
- Bottle-closure. G. Feckzo. No. 1,139,508; May 18; Gaz. vol. 214; p. 702.
- Bottle-closure. R. C. Fetzer, Jr. No. 1,147,384; July 20; Gaz. vol. 216; p. 883.
- Bottle-closure. J. A. Fretz and T. F. Craven. No. 1,133,959; Mar. 30; Gaz. vol. 212; p. 1610.
- Bottle-closure. J. J. Illian. No. 1,162,781; Dec. 7; Gaz. vol. 221; p. 18.
- Bottle-closure. M. P. Janisch. No. 1,150,823; Aug. 17; Gaz. vol. 217; p. 994.
- Bottle-closure. O. Kampfe. No. 1,131,708; Mar. 16; Gaz. vol. 212; p. 716.
- Bottle-closure. J. M. W. Kitchen. No. 1,141,553; June 1; Gaz. vol. 215; p. 166.
- Bottle-closure. J. F. MacIndoe. No. 1,153,236; Sept. 14; Gaz. vol. 218; p. 345.
- Bottle-closure. L. Marconi. No. 1,130,183; Mar. 2; Gaz. vol. 212; p. 119.
- Bottle-closure. C. H. Newhall. No. 1,126,065; Jan. 28; Gaz. vol. 210; p. 1124.
- Bottle-closure. G. T. Parr. No. 1,131,544; Mar. 9; Gaz. vol. 212; p. 624.
- Bottle-closure. F. K. Plympton. No. 1,159,533; Nov. 9; Gaz. vol. 220; p. 423.
- Bottle-closure. A. D. Ray. No. 1,153,518; Sept. 14; Gaz. vol. 218; p. 448.
- Bottle-closure. O. Spahr. No. 1,143,656; June 22; Gaz. vol. 215; p. 1000.
- Bottle-closure. O. Spahr. No. 1,156,562; Oct. 12; Gaz. vol. 219; p. 456.
- Bottle-closure. L. W. Zaar. No. 1,129,618; Feb. 23; Gaz. vol. 211; p. 1160.
- Bottle closure and protector. A. W. Gross and G. H. Dannenberg. No. 1,137,607; Apr. 27; Gaz. vol. 213; p. 1369.
- Bottle-closure expander. W. C. Weis. No. 1,162,958; Dec. 7; Gaz. vol. 221; p. 78.
- Bottle closure, Milk-. G. N. Gomber. No. 1,136,418; Apr. 20; Gaz. vol. 213; p. 911.
- Bottle-closures, Machine for the manufacture of. A. Bogdánffy. No. 1,136,398; Apr. 20; Gaz. vol. 213; p. 903.
- Bottle-closures, Manufacturing. A. Bogdánffy. No. 1,143,353; June 15; Gaz. vol. 215; p. 872.
- Bottle-conveyer. A. H. Schmedtje. No. 1,161,893; Nov. 30; Gaz. vol. 220; p. 1403.
- Bottle-cover. F. A. Chenette. No. 1,154,973; Sept. 28; Gaz. vol. 218; p. 1011.
- Bottle cover, Milk-. P. Ferrari. No. 1,156,989; Oct. 19; Gaz. vol. 219; p. 636.
- Bottle-crowning machine. H. A. Muessel. No. 1,165,700; Dec. 28; Gaz. vol. 221; p. 1162.
- Bottle, Dispensing-. J. K. Lilly. No. 1,126,040; Jan. 26; Gaz. vol. 210; p. 1114.
- Bottle dispensing-stopper, Ink-. W. I. Ferris. No. 1,143,525; June 15; Gaz. vol. 215; p. 929.
- Bottle-drainer. C. H. Taylor. No. 1,157,454; Oct. 19; Gaz. vol. 219; p. 801.
- Bottle-feeding mechanism. W. C. Muench. No. 1,128,030; Feb. 9; Gaz. vol. 211; p. 520.
- Bottle filling and capping machine. J. A. Hicks. No. 1,162,776; Dec. 7; Gaz. vol. 221; p. 15.
- Bottle-filling apparatus. S. T. Penna. No. 1,154,269; Sept. 21; Gaz. vol. 218; p. 742.
- Bottle-filling device. J. H. Champ. No. 1,154,746; Sept. 28; Gaz. vol. 218; p. 935.
- Bottle-filling device. J. H. Godfrey. No. 1,149,256; Aug. 10; Gaz. vol. 217; p. 376.
- Bottle-filling machine. S. B. Goff. No. 1,140,032; May 18; Gaz. vol. 214; p. 887.
- Bottle-filling machine. G. P. Miller. No. 1,159,598; Nov. 9; Gaz. vol. 220; p. 447.
- Bottle-filling machine. A. Schneider. No. 1,132,218; Mar. 16; Gaz. vol. 212; p. 901.
- Bottle-filling machine. R. G. and K. K. Wright. No. 1,151,147; Aug. 24; Gaz. vol. 217; p. 1163.
- Bottle-filling machines, Valve for. F. Tyson. No. 1,136,740; Apr. 20; Gaz. vol. 213; p. 1025.
- Bottle-handling machine. H. J. Chilton. No. 1,132,162; Mar. 16; Gaz. vol. 212; p. 881.
- Bottle, Hermetically-sealed. C. M. Kline. No. 1,138,764; May 11; Gaz. vol. 214; p. 404.
- Bottle-holder. W. B. Barton. No. 1,151,920; Aug. 31; Gaz. vol. 217; p. 1474.
- Bottle-holder. K. H. Roth. No. 1,164,218; Dec. 14; Gaz. vol. 221; p. 563.
- Bottle holder and pouring device. W. E. Hoffman. No. 1,166,209; Dec. 28; Gaz. vol. 221; p. 1343.
- Bottle holder, Milk-. M. B. Brand. No. 1,147,368; July 20; Gaz. vol. 216; p. 877.
- Bottle holder, Milk-. L. Brutus. No. 1,165,840; Dec. 28; Gaz. vol. 221; p. 1209.
- Bottle holder, Milk-. J. R. Casper. No. 1,158,983; Nov. 2; Gaz. vol. 220; p. 199.
- Bottle holder, Milk-. R. E. Cox. No. 1,137,583; Apr. 27; Gaz. vol. 213; p. 1362.
- Bottle holder, Milk-. W. Foster. No. 1,159,485; Nov. 9; Gaz. vol. 220; p. 408.
- Bottle holder, Milk-. F. B. Hendrick. No. 1,124,020; Jan. 5; Gaz. vol. 210; p. 279.
- Bottle holder, Milk-. A. P. Stocum. No. 1,163,044; Dec. 7; Gaz. vol. 221; p. 108.
- Bottle holder, Milk-. D. S. Weeks. No. 1,160,022; Nov. 9; Gaz. vol. 220; p. 599.
- Bottle holder, Nursing-. J. L. R. Hopwood. No. 1,136,529; Apr. 20; Gaz. vol. 213; p. 949.
- Bottle holder, Nursing-. C. Klauber. No. 1,158,059; Oct. 26; Gaz. vol. 219; p. 1074.
- Bottle holder, Nursing-. W. L. Rathjen. No. 1,142,729; June 8; Gaz. vol. 215; p. 610.
- Bottle holder, Nursing-. I. Reyman. No. 1,128,046; Feb. 9; Gaz. vol. 211; p. 525.
- Bottle-holding rack. E. M. Bell. No. 1,143,488; June 15; Gaz. vol. 215; p. 918.
- Bottle, Hot-water. W. M. Brown. No. 1,156,054; Oct. 12; Gaz. vol. 219; p. 279.
- Bottle, Hot-water. M. Rosenthal. No. 1,132,977; Mar. 23; Gaz. vol. 212; p. 1229.
- Bottle, Ink-. T. Hirao. No. 1,166,047; Dec. 28; Gaz. vol. 221; p. 1281.
- Bottle, Ink-. N. C. Phillips. No. 1,152,546; Sept. 7; Gaz. vol. 218; p. 62.
- Bottle lock, Milk-. G. S. Lane. No. 1,134,277; Apr. 6; Gaz. vol. 213; p. 71.
- Bottle-locker, Automatic. D. H. Buckley. No. 1,129,068; Feb. 23; Gaz. vol. 211; p. 966.
- Bottle machine, Pulp-. E. Schinscholl. No. 1,137,669; Apr. 27; Gaz. vol. 213; p. 1389.
- Bottle-making machine. J. H. Kendig. No. 1,132,855; Mar. 23; Gaz. vol. 212; p. 1184.
- Bottle-making machines, Blow-over remover for. J. G. Lepper. No. 1,124,475; Jan. 12; Gaz. vol. 210; p. 489.
- Bottle-making machines, Reheating device for. J. G. Lepper. No. 1,165,611; Dec. 28; Gaz. vol. 221; p. 1130.
- Bottle-making, Neck-roll apparatus for. S. Schiff. No. 1,130,845; Mar. 9; Gaz. vol. 212; p. 384.
- Bottle, Milk-. M. J. Duffy. No. 1,146,313; July 13; Gaz. vol. 216; p. 488.
- Bottle, Milk-. A. F. Rowe. No. 1,150,388; Aug. 17; Gaz. vol. 217; p. 844.
- Bottle, Milk-. J. A. Whitcomb. No. 1,127,141; Feb. 2; Gaz. vol. 211; p. 169.

Alphabetical list of inventions—Continued.

- Bottle-neck-connecting band. G. F. Pinsuti. No. 1,162,877; Dec. 7; Gaz. vol. 221; p. 50.
- Bottle, Non-refillable. W. J. Beisel. No. 1,144,286; June 22; Gaz. vol. 215; p. 1221.
- Bottle, Non-refillable. W. J. Beisel. No. 1,144,287; June 22; Gaz. vol. 215; p. 1221.
- Bottle, Non-refillable. J. Belasco. No. 1,143,486; June 15; Gaz. vol. 215; p. 917.
- Bottle, Non-refillable. L. Berger and G. A. Hassinger. No. 1,136,762; Apr. 26; Gaz. vol. 213; p. 1033.
- Bottle, Non-refillable. D. Birch. No. 1,142,230; June 8; Gaz. vol. 215; p. 439.
- Bottle, Non-refillable. E. Boser and E. Matz. No. 1,133,225; Mar. 23; Gaz. vol. 212; p. 1316.
- Bottle, Non-refillable. H. C. Brankamp. No. 1,123,987; Jan. 5; Gaz. vol. 210; p. 267.
- Bottle, Non-refillable. T. E. Buechner. No. 1,129,069; Feb. 23; Gaz. vol. 211; p. 966.
- Bottle, Non-refillable. G. H. Butler. No. 1,142,666; June 8; Gaz. vol. 215; p. 590.
- Bottle, Non-refillable. F. W. Cassidy. No. 1,156,346; Oct. 12; Gaz. vol. 219; p. 378.
- Bottle, Non-refillable. C. B. Cler. No. 1,148,503; Aug. 3; Gaz. vol. 217; p. 7.
- Bottle, Non-refillable. B. F. Colby and G. L. Swasey. No. 1,163,893; Dec. 14; Gaz. vol. 221; p. 451.
- Bottle, Non-refillable. E. Corretti. No. 1,147,004; July 20; Gaz. vol. 216; p. 751.
- Bottle, Non-refillable. C. J. De Coster. No. 1,128,951; Feb. 16; Gaz. vol. 211; p. 890.
- Bottle, Non-refillable. H. F. Ecker. No. 1,160,865; Nov. 16; Gaz. vol. 220; p. 950.
- Bottle, Non-refillable. V. W. Embree. No. 1,131,497; Mar. 9; Gaz. vol. 212; p. 609.
- Bottle, Non-refillable. W. R. Fearn. No. 1,143,695; June 22; Gaz. vol. 215; p. 1014.
- Bottle, Non-refillable. P. F. E. Fehrmann. No. 1,145,299; July 6; Gaz. vol. 216; p. 113.
- Bottle, Non-refillable. E. Filli, Sr. No. 1,149,509; Aug. 10; Gaz. vol. 217; p. 466.
- Bottle, Non-refillable. C. A. Folly. No. 1,159,203; Nov. 2; Gaz. vol. 220; p. 276.
- Bottle, Non-refillable. C. A. Ford. No. 1,140,452; May 25; Gaz. vol. 214; p. 1069.
- Bottle, Non-refillable. W. E. and C. B. Foss. No. 1,160,501; Nov. 16; Gaz. vol. 220; p. 820.
- Bottle, Non-refillable. T. F. Frewen. No. 1,140,588; May 25; Gaz. vol. 214; p. 1117.
- Bottle, Non-refillable. W. R. Grove. No. 1,124,016; Jan. 5; Gaz. vol. 210; p. 277.
- Bottle, Non-refillable. E. J. Haney. No. 1,164,089; Dec. 14; Gaz. vol. 221; p. 520.
- Bottle, Non-refillable. H. L. Hart. No. 1,139,280; May 11; Gaz. vol. 214; p. 585.
- Bottle, Non-refillable. A. Hermanns and A. Merkel. No. 1,162,774; Dec. 7; Gaz. vol. 221; p. 15.
- Bottle, Non-refillable. C. F. Jackson. No. 1,156,360; Oct. 12; Gaz. vol. 219; p. 384.
- Bottle, Non-refillable. J. F. Jensen. No. 1,133,803; Mar. 30; Gaz. vol. 212; p. 1561.
- Bottle, Non-refillable. S. R. and N. Joffe and L. F. Mahle. No. 1,128,452; Feb. 16; Gaz. vol. 211; p. 715.
- Bottle, Non-refillable. M. Keislar. No. 1,162,615; Nov. 30; Gaz. vol. 220; p. 1651.
- Bottle, Non-refillable. S. E. Kinnan. No. 1,149,068; Aug. 3; Gaz. vol. 217; p. 206.
- Bottle, Non-refillable. L. R. Kissinger. No. 1,159,394; Nov. 9; Gaz. vol. 220; p. 375.
- Bottle, Non-refillable. J. Kosienki and A. Kaminski. No. 1,136,880; Apr. 20; Gaz. vol. 213; p. 1073.
- Bottle, Non-refillable. F. Kuhles. No. 1,157,164; Oct. 19; Gaz. vol. 219; p. 697.
- Bottle, Non-refillable. E. A. Langton. No. 1,134,210; Apr. 6; Gaz. vol. 213; p. 47.
- Bottle, Non-refillable. J. Lemberg. No. 1,142,445; June 8; Gaz. vol. 215; p. 517.
- Bottle, Non-refillable. M. Logan. No. 1,145,325; July 6; Gaz. vol. 216; p. 121.
- Bottle, Non-refillable. N. Martinovich. No. 1,157,996; Oct. 26; Gaz. vol. 219; p. 1051.
- Bottle, Non-refillable. J. A. Matson. No. 1,134,885; Apr. 6; Gaz. vol. 213; p. 288.
- Bottle, Non-refillable. W. J. Matthews. No. 1,147,113; July 20; Gaz. vol. 216; p. 788.
- Bottle, Non-refillable. F. May. No. 1,150,612; Aug. 17; Gaz. vol. 217; p. 922.
- Bottle, Non-refillable. M. Morawiecki. No. 1,135,203; Apr. 13; Gaz. vol. 213; p. 442.
- Bottle, Non-refillable. E. J. Morin. No. 1,154,531; Sept. 21; Gaz. vol. 218; p. 831.
- Bottle, Non-refillable. J. D. Mulvehill. No. 1,151,896; Aug. 31; Gaz. vol. 217; p. 1466.
- Bottle, Non-refillable. J. J. A. Miller. No. 1,138,682; May 11; Gaz. vol. 214; p. 374.
- Bottle, Non-refillable. H. W. Niemeyer. No. 1,164,111; Dec. 14; Gaz. vol. 221; p. 527.
- Bottle, Non-refillable. C. V. O'Malley. No. 1,127,497; Feb. 9; Gaz. vol. 211; p. 333.
- Bottle, Non-refillable. H. J. Oster. No. 1,150,297; Aug. 17; Gaz. vol. 217; p. 813.
- Bottle, Non-refillable. F. J. Pardini. No. 1,139,900; May 18; Gaz. vol. 214; p. 840.
- Bottle, Non-refillable. A. Pavesi. No. 1,161,328; Nov. 23; Gaz. vol. 220; p. 1161.
- Bottle, Non-refillable. T. S. Phillips. No. 1,164,014; Dec. 14; Gaz. vol. 221; p. 493.
- Bottle, Non-refillable. G. F. Pinsuti. No. 1,139,446; May 11; Gaz. vol. 214; p. 644.
- Bottle, Non-refillable. C. C. Prall. No. 1,155,616; Oct. 5; Gaz. vol. 219; p. 100.
- Bottle, Non-refillable. E. Rà. No. 1,141,487; June 1; Gaz. vol. 215; p. 143.
- Bottle, Non-refillable. E. Rà. No. 1,148,255; July 27; Gaz. vol. 216; p. 1217.
- Bottle, Non-refillable. H. W. Ries, L. B. Brown, and F. C. Yockel. No. 1,144,787; June 29; Gaz. vol. 215; p. 1421.
- Bottle, Non-refillable. M. Robbins. No. 1,153,519; Sept. 14; Gaz. vol. 218; p. 448.
- Bottle, Non-refillable. D. Schneider. No. 1,149,470; Aug. 10; Gaz. vol. 217; p. 453.
- Bottle, Non-refillable. P. J. A. Schnoor. No. 1,137,537; Apr. 27; Gaz. vol. 213; p. 1346.
- Bottle, Non-refillable. T. D. Smith. No. 1,151,224; Aug. 24; Gaz. vol. 217; p. 1190.
- Bottle, Non-refillable. F. P. Smith. No. 1,157,127; Oct. 19; Gaz. vol. 219; p. 684.
- Bottle, Non-refillable. M. J. Souza. No. 1,134,647; Apr. 6; Gaz. vol. 213; p. 206.
- Bottle, Non-refillable. J. A. Stodgell. No. 1,134,242; Apr. 6; Gaz. vol. 213; p. 58.
- Bottle, Non-refillable. B. Stone. No. 1,153,725; Sept. 14; Gaz. vol. 218; p. 521.
- Bottle, Non-refillable. W. C. Sutcliffe. No. 1,130,856; Mar. 9; Gaz. vol. 212; p. 387.
- Bottle, Non-refillable. G. Szücs and S. Kovach. No. 1,161,359; Nov. 23; Gaz. vol. 220; p. 1173.
- Bottle, Non-refillable. W. F. Thompson. No. 1,157,735; Oct. 26; Gaz. vol. 219; p. 961.
- Bottle, Non-refillable. V. E. Townsend. No. 1,142,739; June 8; Gaz. vol. 215; p. 613.
- Bottle, Non-refillable. J. C. Uhlein. No. 1,124,977; Jan. 12; Gaz. vol. 210; p. 668.
- Bottle, Non-refillable. G. P. Van Wye. No. 1,163,289; Dec. 7; Gaz. vol. 221; p. 193.
- Bottle, Non-refillable. R. Weisbach. No. 1,126,172; Jan. 26; Gaz. vol. 210; p. 1165.
- Bottle, Non-refillable. S. S. Williamson. No. 1,127,144; Feb. 2; Gaz. vol. 211; p. 170.
- Bottle, Non-refillable. N. R. Wyatt. No. 1,164,442; Dec. 14; Gaz. vol. 221; p. 643.
- Bottle, Non-refillable. H. G. Young. No. 1,125,625; Jan. 19; Gaz. vol. 210; p. 934.
- Bottle, Nursing-. R. R. Baker. No. 1,166,406; Dec. 28; Gaz. vol. 221; p. 1414.
- Bottle-opener. R. B. Brunswick. No. 1,129,952; Mar. 2; Gaz. vol. 212; p. 41.
- Bottle or jar cap. H. H. Robertson. No. 1,132,975; Mar. 23; Gaz. vol. 212; p. 1228.
- Bottle or jar closure. C. Hammer. No. 1,160,596; Nov. 16; Gaz. vol. 220; p. 854.
- Bottle or jar closure. C. Hammer. No. 1,160,597; Nov. 16; Gaz. vol. 220; p. 855.
- Bottle or jar closure. C. Hammer. (Reissue.) No. 1,397,3; Aug. 31; Gaz. vol. 217; p. 1637.
- Bottle or jar closure. A. R. Hoffman. No. 1,164,939; Dec. 21; Gaz. vol. 221; p. 857.
- Bottle or jar closure. J. Schies. No. 1,135,328; Apr. 13; Gaz. vol. 213; p. 485.
- Bottle or jar closure. Milk. H. G. Aldridge. No. 1,157,282; Oct. 19; Gaz. vol. 219; p. 740.
- Bottle, Poison-. M. J. Driscoll. No. 1,162,583; Nov. 30; Gaz. vol. 220; p. 1641.
- Bottle, Poison-. M. Mostoller. No. 1,155,082; Sept. 28; Gaz. vol. 218; p. 1050.
- Bottle, Poison-. H. Turner. No. 1,141,369; June 1; Gaz. vol. 215; p. 101.
- Bottle, Protective. C. F. Davy. No. 1,130,488; Mar. 2; Gaz. vol. 212; p. 228.
- Bottle protector, Milk-. H. P. Roberts. No. 1,154,656; Sept. 28; Gaz. vol. 218; p. 905.
- Bottle receptacle, Milk-. J. Kovacs and R. Blaho. No. 1,125,563; Jan. 19; Gaz. vol. 210; p. 911.
- Bottle-remover for bottle-washing machines. J. Sargeant. No. 1,133,321; Mar. 30; Gaz. vol. 212; p. 1386.
- Bottle safety device. I. T. Smith. No. 1,150,640; Aug. 17; Gaz. vol. 217; p. 932.
- Bottle-sealing cap. E. H. Ruehl. No. 1,126,287; Jan. 26; Gaz. vol. 210; p. 1204.
- Bottle-sealing machines. Bottle-support for. A. Calleson. No. 1,142,078; June 8; Gaz. vol. 215; p. 385.
- Bottle-shipping case. G. G. Roberts. No. 1,139,582; May 18; Gaz. vol. 214; p. 728.
- Bottle-sprinkler. H. O. Brawner. No. 1,159,166; Nov. 2; Gaz. vol. 220; p. 262.
- Bottle-stopper. E. L. Beck and A. M. Ayers. No. 1,151,997; Aug. 31; Gaz. vol. 217; p. 1500.
- Bottle-stopper. G. A. Carpenter. No. 1,162,032; Nov. 30; Gaz. vol. 220; p. 1452.
- Bottle-stopper. G. F. Elliott. No. 1,157,518; Oct. 19; Gaz. vol. 219; p. 823.
- Bottle-stopper. S. Fränkel. No. 1,163,520; Dec. 7; Gaz. vol. 221; p. 275.

- Bottle-stopper. M. E. Hamilton. No. 1,132,931; Mar. 23; Gaz. vol. 212; p. 1211.
- Bottle-stopper. M. Hansen. No. 1,151,358; Aug. 24; Gaz. vol. 217; p. 1233.
- Bottle-stopper. E. A. Koop. No. 1,165,422; Dec. 28; Gaz. vol. 221; p. 1064.
- Bottle-stopper. A. E. Matt. No. 1,153,240; Sept. 14; Gaz. vol. 218; p. 347.
- Bottle-stopper. C. McKeever. No. 1,131,400; Mar. 9; Gaz. vol. 212; p. 575.
- Bottle-stopper. A. Motroni. No. 1,127,912; Feb. 9; Gaz. vol. 211; p. 479.
- Bottle-stopper. G. F. Pinsuti. No. 1,140,062; May 18; Gaz. vol. 214; p. 899.
- Bottle-stopper. W. H. Ranagan. No. 1,135,718; Apr. 13; Gaz. vol. 213; p. 623.
- Bottle-stopper. M. J. Shuck. No. 1,144,919; June 29; Gaz. vol. 215; p. 1464.
- Bottle-stopper. L. M. Spinks. No. 1,146,036; July 13; Gaz. vol. 216; p. 392.
- Bottle-stopper. A. H. Wirz. No. 1,140,928; May 25; Gaz. vol. 214; p. 1237.
- Bottle-stopper. A. H. Wirz. No. 1,146,986; July 20; Gaz. vol. 216; p. 745.
- Bottle-stopper-assembling machine. H. F. Busch. No. 1,131,325; Mar. 9; Gaz. vol. 212; p. 549.
- Bottle-stopper, Capillary. S. Schiff. No. 1,127,812; Feb. 9; Gaz. vol. 211; p. 444.
- Bottle-stopper lock. G. M. Hiskey. No. 1,142,519; June 8; Gaz. vol. 215; p. 542.
- Bottle-stopper, Non-removable. L. J. Mazoyer. No. 1,156,915; Oct. 19; Gaz. vol. 219; p. 609.
- Bottle stopper, Water. M. C. Schweinert and H. P. Kraft. No. 1,123,399; Jan. 5; Gaz. vol. 210; p. 70.
- Bottle stoppering crowns or caps, Manufacture of. W. Bailey. No. 1,136,393; Apr. 20; Gaz. vol. 213; p. 902.
- Bottle support, Vacuum. F. E. Carlson. No. 1,143,172; June 15; Gaz. vol. 215; p. 807.
- Bottle support, Vacuum. F. E. Carlson. No. 1,143,173; June 15; Gaz. vol. 215; p. 808.
- Bottle, Telltale. A. L. Westrich. No. 1,130,867; Mar. 9; Gaz. vol. 212; p. 391.
- Bottle-top. O. Roelke. No. 1,133,505; Mar. 30; Gaz. vol. 212; p. 1452.
- Bottle-top. C. F. Weichel. No. 1,128,203; Feb. 9; Gaz. vol. 211; p. 580.
- Bottle-top extractor, Milk-. A. L. Higgins. No. 1,142,707; June 8; Gaz. vol. 215; p. 604.
- Bottle, Vacuum-. C. P. Byrnes. No. 1,130,255; Mar. 2; Gaz. vol. 212; p. 143.
- Bottle-washer. R. F. Beutlich. No. 1,125,048; Jan. 19; Gaz. vol. 210; p. 728.
- Bottle-washing machine. R. F. Beutlich. No. 1,144,023; June 22; Gaz. vol. 215; p. 1128.
- Bottle-washing machine. R. L. Gallup. No. 1,161,468; Nov. 23; Gaz. vol. 220; p. 1211.
- Bottle-washing machine. R. L. Gallup. No. 1,161,469; Nov. 23; Gaz. vol. 220; p. 1211.
- Bottle-washing machine. G. B. Keplinger. No. 1,124,457; Jan. 12; Gaz. vol. 210; p. 482.
- Bottle-washing machine. J. T. H. Paul. No. 1,130,015; Mar. 2; Gaz. vol. 212; p. 61.
- Bottle-washing-machine attachment. S. Martinelli. No. 1,130,418; Mar. 2; Gaz. vol. 212; p. 201.
- Bottle washing, rinsing, and sterilizing machine. A. L. Foreman. No. 1,151,538; Aug. 24; Gaz. vol. 217; p. 1295.
- Bottle wiper or drier. T. C. Yeager. No. 1,164,156; Dec. 14; Gaz. vol. 221; p. 542.
- Bottles and other containers, Manufacture of fibrous caps for. A. Westlake and P. Poetschke. No. 1,160,478; Nov. 16; Gaz. vol. 220; p. 812.
- Bottles and other round vessels, Automatic machine for blowing seamless. G. Lefort. No. 1,139,545; May 18; Gaz. vol. 214; p. 714.
- Bottles and similar glassware, Apparatus for the manufacture of. C. S. Dayton. No. 1,148,474; July 27; Gaz. vol. 216; p. 1293.
- Bottles antirefillable, Closure for rendering. A. H. Luff and H. C. Willmott. No. 1,125,573; Jan. 19; Gaz. vol. 210; p. 914.
- Bottles, Device for preventing reusing of. R. R. Holbrook. No. 1,151,102; Aug. 24; Gaz. vol. 217; p. 1146.
- Bottles, Device for preventing the fraudulent refilling of. F. C. Herbert. No. 1,140,744; May 25; Gaz. vol. 214; p. 1170.
- Bottles, Device for withdrawing closure-caps from milk-. J. Carney. No. 1,141,378; June 1; Gaz. vol. 215; p. 104.
- Bottles, Disk closure for milk-. C. J. Schuster. No. 1,162,519; Nov. 30; Gaz. vol. 220; p. 1621.
- Bottles, jars, and the like, Closure for. H. A. Heine. No. 1,145,243; July 6; Gaz. vol. 216; p. 94.
- Bottles, jars, or other vessels, Covering for. J. R. Morford. No. 1,149,532; Aug. 10; Gaz. vol. 217; p. 475.
- Bottles, jars, and other like vessels, Holder for. E. Hales. No. 1,132,180; Mar. 16; Gaz. vol. 212; p. 888.
- Bottles, jars, &c., Service-cover for milk-. B. S. Pierce. No. 1,132,615; Mar. 23; Gaz. vol. 212; p. 1095.
- Bottles, Locking-receptacle for milk-. C. Nahabedian. No. 1,127,076; Feb. 2; Gaz. vol. 211; p. 145.
- Bottles, Machine for applying crowns to. R. F. Jungnickel. No. 1,140,832; May 25; Gaz. vol. 214; p. 1200.
- Bottles, Machine for simultaneously crimping a plurality of. G. W. Beadle. No. 1,125,040; Jan. 19; Gaz. vol. 210; p. 725.
- Bottles, Making narrow-neck. F. J. Mackin. No. 1,148,701; Aug. 3; Gaz. vol. 217; p. 78.
- Bottles, Mutilatable retaining-casing for. E. Greene. No. 1,164,712; Dec. 21; Gaz. vol. 221; p. 777.
- Bottles, Nipple for nursing. E. C. Hilton. No. 1,144,980; June 29; Gaz. vol. 215; p. 1486.
- Bottles or jars, Composite disk for caps of. C. Fay, Sr. No. 1,144,589; June 29; Gaz. vol. 215; p. 1351.
- Bottles, Pour-out for. W. C. Sabine. No. 1,132,620; Mar. 23; Gaz. vol. 212; p. 1097.
- Bottles, Safety-lock for milk-. L. Levitt and I. Rendelman. No. 1,139,780; May 18; Gaz. vol. 214; p. 797.
- Bottles, Securing neck-closures in hot-water. B. F. Stauffer. No. 1,146,741; July 13; Gaz. vol. 216; p. 637.
- Bottles, Siphon-head for. A. P. Mara. No. 1,125,856; Jan. 19; Gaz. vol. 210; p. 1015.
- Bottles, Transparent vacuum-jacket for liquid-dispensing. E. T. Wardell. No. 1,161,092; Nov. 23; Gaz. vol. 220; p. 1075.
- Bottles, Valve for non-refillable. C. B. H. La Bounty. No. 1,161,693; Nov. 23; Gaz. vol. 220; p. 1288.
- Bottles, Washing. R. L. Gallup. No. 1,161,467; Nov. 23; Gaz. vol. 220; p. 1211.
- Bottling-machine. A. A. Carper. No. 1,133,929; Mar. 30; Gaz. vol. 212; p. 1603.
- Bottling-machine attachment. M. L. Stangl. No. 1,158,740; Nov. 2; Gaz. vol. 220; p. 115.
- Bottling-machine, Rotating. A. A. Pindstoffe. No. 1,127,922; Feb. 9; Gaz. vol. 211; p. 482.
- Bottom, Auxiliary. K. Warming. No. 1,157,132; Oct. 19; Gaz. vol. 219; p. 686.
- Bottoming-machine. A. B. Starr. No. 1,161,544; Nov. 23; Gaz. vol. 220; p. 1237.
- Bouquet-support. H. S. Neiman. No. 1,123,352; Jan. 5; Gaz. vol. 210; p. 54.
- Bow. W. E. Ellis. No. 1,158,465; Nov. 2; Gaz. vol. 220; p. 19.
- Bow. W. E. Ellis. No. 1,158,466; Nov. 2; Gaz. vol. 220; p. 19.
- Bow-clamping device. B. T. Steiner. No. 1,128,541; Feb. 16; Gaz. vol. 211; p. 746.
- Bow-fastener. H. L. Jeffery and A. W. Wadsworth. No. 1,127,255; Feb. 2; Gaz. vol. 211; p. 208.
- Bow-making machine. W. E. Ellis. No. 1,127,605; Feb. 9; Gaz. vol. 211; p. 369.
- Bow rest and clamp device. H. B. White. No. 1,152,924; Sept. 7; Gaz. vol. 218; p. 200.
- Bow-socket and rest-clamp, Adjustable. G. E. Robinson. No. 1,156,494; Oct. 12; Gaz. vol. 219; p. 433.
- Bow-socket separator. F. K. Lewis. No. 1,143,637; June 22; Gaz. vol. 215; p. 994.
- Bowing-rod and bracket therefor. H. Ebert. No. 1,158,658; Nov. 2; Gaz. vol. 220; p. 88.
- Bowl, Ladle-. T. P. Byram. No. 1,150,994; Aug. 24; Gaz. vol. 217; p. 1110.
- Bowl, Sugar-. A. and E. Antoine. No. 1,123,974; Jan. 5; Gaz. vol. 210; p. 263.
- Bowl, Sugar-. J. M. Travis. No. 1,141,368; June 1; Gaz. vol. 215; p. 101.
- Bowling-alley. W. C. Banks. No. 1,150,570; Aug. 17; Gaz. vol. 217; p. 908.
- Bowling-alley. D. Cutler. No. 1,123,496; Jan. 5; Gaz. vol. 210; p. 102.
- Bowling-alley. K. G. Dieterich. No. 1,154,329; Sept. 28; Gaz. vol. 218; p. 1132.
- Bowling-alley. A. J. Kempfen. No. 1,137,635; Apr. 27; Gaz. vol. 213; p. 1379.
- Bowling-alley accessory. M. Seitz. No. 1,139,588; May 18; Gaz. vol. 214; p. 729.
- Bowling-alley ball-chute. W. W. Vearring. No. 1,160,018; Nov. 9; Gaz. vol. 220; p. 598.
- Bowling-alley ball-returnway. J. N. McIntire. No. 1,144,145; June 22; Gaz. vol. 215; p. 1171.
- Bowling-alley beds, Apparatus for determining level for. R. T. Johnston. No. 1,129,400; Feb. 23; Gaz. vol. 211; p. 1083.
- Bowling-alley beds, Machine for resurfacing. R. T. Johnston. No. 1,129,401; Feb. 23; Gaz. vol. 211; p. 1083.
- Bowling-alley, Carom. F. W. Virglen, Sr. No. 1,124,365; Jan. 12; Gaz. vol. 210; p. 449.
- Bowling-alley, Electric automatic. D. E. Huntley and W. H. Bentline. No. 1,151,269; Aug. 24; Gaz. vol. 217; p. 1204.
- Bowling-alley pin-setter. F. C. Hobbs. No. 1,153,917; Sept. 21; Gaz. vol. 218; p. 622.
- Bowling-alley pin-setter. F. C. Hobbs. No. 1,162,923; Dec. 7; Gaz. vol. 221; p. 65.
- Bowling-alleys, Pin-setter for. F. C. Hobbs. No. 1,153,689; Sept. 14; Gaz. vol. 218; p. 507.
- Bowling-alleys, Signal-bell for. L. M. Garman. No. 1,146,492; July 13; Gaz. vol. 216; p. 553.
- Bowling-ball returnway. E. Schlossberg. No. 1,145,803; July 6; Gaz. vol. 216; p. 289.
- Bowling-ball with inwardly-opening door. J. W. Hyatt. No. 1,156,143; Oct. 12; Gaz. vol. 219; p. 311.
- Bowling-balls and the like, Grip for. A. J. Watson. No. 1,139,827; May 18; Gaz. vol. 214; p. 814.

Alphabetical list of inventions—Continued.

- Bowling-pin. G. Obenhack. No. 1,146,509; July 13; Gaz. vol. 216; p. 559.
- Bowling-pin. R. E. Stanley. No. 1,144,078; June 22; Gaz. vol. 215; p. 1146.
- Box: See—
- Advertising twine-box. Knockdown box.
- Annealing-box. Letter-box.
- Aseptic box. Load-box.
- Automobile tool-box. Locomotive driving-box.
- Axle-box. Locomotive fire-box.
- Bait-box. Lunch-box.
- Ballot-box. Mail-box.
- Bearing-box. Mail and parcel-post box.
- Berry-box. Mailing-box.
- Bird-box. Match-box.
- Blacking-box. Medicine-box.
- Blade-box. Metal box.
- Boiler-box. Meter-box.
- Boiler fire-box. Miter-box.
- Bonnet-box. Nest-box.
- Branch box. Ornamental box.
- Call-box. Outlet-box.
- Candy-box. Outlet or junction box.
- Car journal-box. Packing box.
- Cash-box. Packing or shipping box.
- Cheese-box. Paper box.
- Cigar-box. Paper-board box.
- Cigarette-box. Pepper and salt box.
- Cigarette and match box. Photograph sound-box.
- Cigarette and the like box. Photographic-film-winding box.
- Coin-box. Pocket-box.
- Collapsible box. Pull or control box.
- Collar-box. Quick-opening box.
- Connection-box. Refrigerator-box.
- Cut-out box. Save-all box.
- Delivery-box. Self-locking box.
- Dice-box. Service-box.
- Display-box. Sheet-metal box.
- Dump-box. Shipping-box.
- Egg-box. Shipping and display box.
- Engineer's tool-box. Signal-box.
- Exhaust-box. Sound-box.
- Fare-box. Starting-box.
- Feed-box. Stop and waste box.
- File-box. Storage and shipping box.
- Film-box. Stuffing-box.
- Fire-box. Sugar-box.
- Fire-alarm box. Switch-box.
- Fire and police alarm box. Switch-point drain-box.
- Flag-box. Talking-machine sound-box.
- Flexible box. Terminal box.
- Floor-box. Tobacco-box.
- Flower-box. Tool-box.
- Flower and lawn box. Toy box.
- Foldable box. Type-mold box.
- Folded-blank box. Umbrella lock-box.
- Folding box. Vanity-box.
- Frost-proof box. Veneer box.
- Gear-box. Wagon-box.
- Hat-box. Water-meter box.
- Ice-box. Water or gas box.
- Ice-cream box. Well stuffing-box.
- Jewelry-box. Window and veranda box.
- Journal-box. Wire-bound box.
- Junction-box.
- Box. S. Bachmann. No. 1,157,285; Oct. 19; Gaz. vol. 219; p. 741.
- Box. W. B. Bowman. No. 1,145,665; July 6; Gaz. vol. 216; p. 241.
- Box. H. E. Brock and E. Z. Myre. No. 1,155,206; Sept. 28; Gaz. vol. 218; p. 1093.
- Box. J. F. Brooks. No. 1,133,791; Mar. 30; Gaz. vol. 212; p. 1556.
- Box. S. E. Butler. No. 1,146,307; July 13; Gaz. vol. 216; p. 485.
- Box. O. C. Fenlason. No. 1,148,372; July 27; Gaz. vol. 216; p. 1260.
- Box. F. A. Hornor. No. 1,131,520; Mar. 9; Gaz. vol. 212; p. 616.
- Box. J. M. Hothersall. No. 1,154,020; Sept. 21; Gaz. vol. 218; p. 657.
- Box. C. W. Hubbard, Jr. No. 1,128,312; Feb. 16; Gaz. vol. 211; p. 669.
- Box. J. P. Hummel. No. 1,144,130; June 22; Gaz. vol. 215; p. 1166.
- Box. L. J. Ives. No. 1,164,095; Dec. 14; Gaz. vol. 221; p. 522.
- Box. J. J. Jones. No. 1,126,025; Jan. 26; Gaz. vol. 210; p. 1109.
- Box. F. Kaye and R. W. Rogers. No. 1,156,531; Oct. 12; Gaz. vol. 219; p. 445.
- Box. M. M. King. No. 1,138,384; May 4; Gaz. vol. 214; p. 234.
- Box. H. J. McCabe and J. W. Wise. No. 1,137,341; Apr. 27; Gaz. vol. 213; p. 1279.
- Box. L. A. Negraval. No. 1,165,894; Dec. 28; Gaz. vol. 221; p. 1228.
- Box. L. C. Palmer. No. 1,163,684; Dec. 14; Gaz. vol. 221; p. 376.
- Box. E. E. Pinkerton. No. 1,143,551; June 15; Gaz. vol. 215; p. 939.
- Box. O. Raade. No. 1,123,591; Jan. 5; Gaz. vol. 210; p. 134.
- Box. P. Richard. No. 1,139,801; May 18; Gaz. vol. 214; p. 805.
- Box. W. Schalk. No. 1,152,054; Aug. 31; Gaz. vol. 217; p. 1520.
- Box. T. R. Thomas. No. 1,165,638; Dec. 28; Gaz. vol. 221; p. 1140.
- Box. H. B. Walter. No. 1,134,782; Apr. 6; Gaz. vol. 213; p. 256.
- Box. A. G. Watkins. No. 1,134,569; Apr. 6; Gaz. vol. 213; p. 178.
- Box and box-blank. L. M. Todd. No. 1,152,240; Aug. 31; Gaz. vol. 217; p. 1584.
- Box and case. H. Wildberg. No. 1,133,076; Mar. 23; Gaz. vol. 212; p. 1265.
- Box-assembling machine. J. A. Stock. No. 1,141,502; June 1; Gaz. vol. 215; p. 148.
- Box attachment. A. G. Plante. No. 1,143,066; June 15; Gaz. vol. 215; p. 771.
- Box-blank bundles. Machine for tying. E. G. Staude. No. 1,163,042; Dec. 7; Gaz. vol. 221; p. 107.
- Box blank. Collapsible. A. and J. Eichhorn. No. 1,125,987; Jan. 26; Gaz. vol. 210; p. 1096.
- Box-blank machine. S. F. Bauwens. No. 1,131,460; Mar. 9; Gaz. vol. 212; p. 596.
- Box-blank machine. H. Brown. No. 1,140,297; May 18; Gaz. vol. 214; p. 978.
- Box-blank machine. E. Craig. No. 1,132,515; Mar. 16; Gaz. vol. 212; p. 1011.
- Box-blank machine. J. H. Greenstreet. No. 1,145,834; July 6; Gaz. vol. 216; p. 301.
- Box-blank machine. J. J. Miller. No. 1,142,351; June 8; Gaz. vol. 215; p. 481.
- Box-blank machine. Adjustable. W. P. Healy. No. 1,159,379; Nov. 9; Gaz. vol. 220; p. 369.
- Box-blanks. Means for making. R. G. Inwood and P. C. Lavenberg. No. 1,128,145; Feb. 9; Gaz. vol. 211; p. 560.
- Box construction. J. A. Lafore. No. 1,127,902; Feb. 9; Gaz. vol. 211; p. 476.
- Box construction. J. A. Lafore. No. 1,135,117; Apr. 13; Gaz. vol. 213; p. 413.
- Box construction. G. W. Palmer. No. 1,161,072; Nov. 23; Gaz. vol. 220; p. 1068.
- Box-corner construction. C. E. Green. No. 1,158,802; Nov. 2; Gaz. vol. 220; p. 138.
- Box-corner construction. C. E. Green and C. T. Bloomer. No. 1,158,801; Nov. 2; Gaz. vol. 220; p. 138.
- Box-corner stays. Machine for applying. H. De Smith. No. 1,160,390; Nov. 16; Gaz. vol. 220; p. 780.
- Box-cover. Auxiliary. R. W. Douglas. No. 1,141,699; June 1; Gaz. vol. 215; p. 217.
- Box-cover fastener. H. J. Johnson. No. 1,123,544; Jan. 5; Gaz. vol. 210; p. 119.
- Box-cover fastener. F. D. Van Valkenburgh. No. 1,139,316; May 11; Gaz. vol. 214; p. 596.
- Box-cover fastener. W. Waidlich. No. 1,142,211; June 8; Gaz. vol. 215; p. 432.
- Box cover. Road-. C. E. Tyler. No. 1,165,044; Dec. 21; Gaz. vol. 221; p. 893.
- Box-cover. Supplemental. W. I. Tuttle. No. 1,153,276; Sept. 14; Gaz. vol. 218; p. 359.
- Box-covering machine. W. R. Comings. No. 1,147,144; July 20; Gaz. vol. 216; p. 799.
- Box-covering machine. H. S. Gipe and G. W. Henry. No. 1,127,879; Feb. 9; Gaz. vol. 211; p. 468.
- Box-covering machine. P. P. Racynski. No. 1,152,970; Sept. 7; Gaz. vol. 218; p. 217.
- Box-covering machines. Pneumatic device for feeding finishing-blanks to. M. E. Peters. No. 1,149,405; Aug. 10; Gaz. vol. 217; p. 430.
- Box cutting and scoring machines. Tympan for. H. M. Barber. No. 1,158,772; Nov. 2; Gaz. vol. 220; p. 127.
- Box-delivering mechanism. J. A. Stock. No. 1,141,501; June 1; Gaz. vol. 215; p. 148.
- Box-ending machine. S. T. Hobbs. No. 1,136,958; Apr. 27; Gaz. vol. 213; p. 1137.
- Box-fastener. T. J. Day. No. 1,136,896; Apr. 20; Gaz. vol. 213; p. 1079.
- Box-fastener. W. E. Hume. No. 1,152,179; Aug. 31; Gaz. vol. 217; p. 1562.
- Box-fastener. G. P. Wood. No. 1,136,500; Apr. 20; Gaz. vol. 213; p. 940.
- Box fastener and seal. W. M. Brooks. No. 1,147,142; July 20; Gaz. vol. 216; p. 798.
- Box fastener. Top-. C. A. Roberts. No. 1,130,338; Mar. 2; Gaz. vol. 212; p. 172.
- Box-flanging machine. S. T. Brown. No. 1,138,351; May 4; Gaz. vol. 214; p. 222.
- Box forming and sealing tray. F. V. Simpson. No. 1,146,357; July 13; Gaz. vol. 216; p. 503.
- Box forming and sealing tray. F. V. Simpson. (Re-issue.) No. 14,033; Dec. 14; Gaz. vol. 221; p. 704.
- Box handle and tying device. Combined. S. Heinken and H. Gonen. No. 1,147,745; July 27; Gaz. vol. 216; p. 1036.
- Box having solid ends. H. B. Walter. No. 1,125,782; Jan. 19; Gaz. vol. 210; p. 992.
- Box-hinging machine. H. R. Smith. No. 1,166,016; Dec. 28; Gaz. vol. 221; p. 1271.

Alphabetical list of inventions—Continued.

- Box holder, Adjustable. G. A. Mostizer. No. 1,146,199; July 13; Gaz. vol. 216; p. 449.
- Box-lid. G. Gardner. No. 1,141,625; June 1; Gaz. vol. 215; p. 191.
- Box-lid. A. C. Schoen. No. 1,135,728; Apr. 13; Gaz. vol. 213; p. 627.
- Box-lid retainer. W. and W. S. Vollmer. No. 1,144,881; June 29; Gaz. vol. 215; p. 1454.
- Box-lock. W. G. Magoveny. No. 1,152,116; Aug. 31; Gaz. vol. 217; p. 1541.
- Box-locking means. O. Anderson. No. 1,146,230; July 13; Gaz. vol. 216; p. 460.
- Box-machine. S. F. Bauwens. No. 1,142,008; June 8; Gaz. vol. 215; p. 360.
- Box machine, Flexible. E. G. Staude. No. 1,123,945; Jan. 5; Gaz. vol. 210; p. 254.
- Box machines, Combined carriage and former for wire-bound. R. G. Inwood and P. C. Lavenberg. No. 1,128,144; Feb. 9; Gaz. vol. 211; p. 560.
- Box-machines, Nailing mechanism for. W. X. Stevens. No. 1,156,109; Oct. 12; Gaz. vol. 219; p. 299.
- Box-machines, Strip-feeding device for. E. Jagenberg. No. 1,125,330; Jan. 19; Gaz. vol. 210; p. 829.
- Box-making machine. J. F. Adams. No. 1,160,558; Nov. 16; Gaz. vol. 220; p. 841.
- Box-making machine. J. P. Bird. No. 1,131,199; Mar. 9; Gaz. vol. 212; p. 505.
- Box-making machine. C. Burnham. No. 1,154,610; Sept. 28; Gaz. vol. 218; p. 888.
- Box-making machine. C. Burnham. No. 1,154,969; Sept. 28; Gaz. vol. 218; p. 1009.
- Box-making machine. B. Crebbin. No. 1,123,250; Jan. 5; Gaz. vol. 210; p. 16.
- Box-making machine. F. A. Graham. No. 1,136,795; Apr. 20; Gaz. vol. 213; p. 1043.
- Box-making machine. J. N. J. Hilbert. No. 1,131,131; Mar. 9; Gaz. vol. 212; p. 481.
- Box-making machine. J. N. J. Hilbert. No. 1,131,132; Mar. 9; Gaz. vol. 212; p. 482.
- Box-making machine. C. Holly. No. 1,158,211; Oct. 26; Gaz. vol. 219; p. 1127.
- Box-making machine. H. A. Inman. No. 1,142,575; June 8; Gaz. vol. 215; p. 560.
- Box-making machine. E. Jagenberg. No. 1,136,339; Apr. 20; Gaz. vol. 213; p. 881.
- Box-making machine. E. C. Northrup. No. 1,144,497; June 29; Gaz. vol. 215; p. 1321.
- Box-making machine. W. X. Stevens. No. 1,143,089; June 15; Gaz. vol. 215; p. 779.
- Box-making-machine feeding mechanism. C. Burnham. No. 1,154,968; Sept. 28; Gaz. vol. 218; p. 1009.
- Box-making, Machine for creasing card or other board for. L. A. Mayall. No. 1,126,816; Feb. 2; Gaz. vol. 211; p. 54.
- Box-making machines, Dieing mechanism for. R. A. Wood. No. 1,142,654; June 8; Gaz. vol. 215; p. 586.
- Box-marking machine. J. N. Shotwell. No. 1,138,985; May 11; Gaz. vol. 214; p. 482.
- Box-opener. R. H. Baker. No. 1,140,016; May 18; Gaz. vol. 214; p. 882.
- Box-opener. H. Clemens. No. 1,152,296; Aug. 31; Gaz. vol. 217; p. 1603.
- Box-opener. P. Libonati. No. 1,135,593; Apr. 13; Gaz. vol. 213; p. 578.
- Box or carton. W. S. Luckett. No. 1,165,612; Dec. 28; Gaz. vol. 221; p. 1130.
- Box or crate. H. Brown. No. 1,133,001; Mar. 23; Gaz. vol. 212; p. 1238.
- Box-press. C. B. Rumsey. No. 1,163,466; Dec. 7; Gaz. vol. 221; p. 256.
- Box-press. B. C. Skinner. No. 1,150,639; Aug. 17; Gaz. vol. 217; p. 932.
- Box-press. S. G. Smith. No. 1,140,410; May 25; Gaz. vol. 214; p. 1054.
- Box-rack, Sectional. S. Ruff. No. 1,147,975; July 27; Gaz. vol. 216; p. 1117.
- Box-shaping machine. J. A. Stock and M. J. Milmo. No. 1,132,632; Mar. 23; Gaz. vol. 212; p. 1102.
- Box-shells, Forming. H. B. Smith. No. 1,152,359; Aug. 31; Gaz. vol. 217; p. 1626.
- Box-strap, Metallic. C. Solomon, Jr. No. 1,145,932; July 13; Gaz. vol. 216; p. 354.
- Box-strapping machine. J. E. Godley and J. M. Carroll. No. 1,130,160; Mar. 2; Gaz. vol. 212; p. 110.
- Box-strapping, Wired-edge. G. C. D. Miller. No. 1,133,814; Mar. 30; Gaz. vol. 212; p. 1565.
- Box-support. H. A. Sackett. No. 1,159,277; Nov. 2; Gaz. vol. 220; p. 301.
- Box-toe and blank therefor. F. E. Butterfield. No. 1,124,694; Jan. 12; Gaz. vol. 210; p. 568.
- Boxes and containers, Locking device for. I. B. Keller. No. 1,157,942; Oct. 26; Gaz. vol. 219; p. 1032.
- Boxes and other similar packings, Device for assembling the parts of pasteboard. L. Planche. No. 1,148,985; Aug. 3; Gaz. vol. 217; p. 177.
- Boxes, Machine for making flexible. E. G. Staude. (Re-issue.) No. 13,937; June 22; Gaz. vol. 215; p. 1247.
- Boxes, Making. R. G. Inwood and P. C. Lavenberg. No. 1,128,252; Feb. 9; Gaz. vol. 211; p. 596.
- Boxes, Making sheet-metal. G. A. Long. No. 1,161,396; Nov. 23; Gaz. vol. 220; p. 1186.
- Boxes, Partition-holder for. F. S. Knapp. No. 1,154,778; Sept. 28; Gaz. vol. 218; p. 946.
- Boxes while being bound together, Device for holding a plurality of. C. F. Norton and M. S. Whaley. No. 1,166,243; Dec. 28; Gaz. vol. 221; p. 1356.
- Brace. *See—*
- Angle-brace. Furniture-brace.
- Automobile safety-brace. Post-brace.
- Broom-brace. Rail-brace.
- Cabinet-brace. Railway-bumping-post brace.
- Car end brace. Shoulder-brace.
- Clamp-brace. Tank-brace.
- Cycle-brace. Universal brace.
- Door-brace.
- Drill-brace.
- Brace. F. D. Allgood. No. 1,162,542; Nov. 30; Gaz. vol. 220; p. 1629.
- Bracelet. E. I. Coombs. No. 1,141,614; June 1; Gaz. vol. 215; p. 188.
- Bracelet. C. L. Depollier. No. 1,151,669; Aug. 31; Gaz. vol. 217; p. 1386.
- Bracelet. H. Ginnel. No. 1,150,859; Aug. 24; Gaz. vol. 217; p. 1066.
- Bracelet. H. Ginnel. No. 1,160,277; Nov. 16; Gaz. vol. 220; p. 742.
- Bracelet. A. Hadley. No. 1,140,677; May 25; Gaz. vol. 214; p. 1147.
- Bracelet. A. Hadley. No. 1,165,872; Dec. 28; Gaz. vol. 221; p. 1221.
- Bracelet. O. C. Jacobsen. No. 1,134,860; Apr. 6; Gaz. vol. 213; p. 279.
- Bracelet. H. L. Jeffery and A. W. Wadsworth. No. 1,130,405; Mar. 2; Gaz. vol. 212; p. 196.
- Bracelet. H. L. Jeffery and A. W. Wadsworth. No. 1,160,616; Nov. 16; Gaz. vol. 220; p. 862.
- Bracelet. H. Wiedmann. No. 1,142,070; June 8; Gaz. vol. 215; p. 383.
- Bracelet-chain, Extensible. R. King. No. 1,143,545; June 15; Gaz. vol. 215; p. 937.
- Bracelet, Curb-chain. R. Emrich. No. 1,144,408; June 29; Gaz. vol. 215; p. 1291.
- Bracelet, Expandible watch-. C. L. Depollier and E. C. Duncuff. (Reissue.) No. 13,951; July 27; Gaz. vol. 216; p. 1300.
- Bracelet-link. A. Eklund. No. 1,161,647; Nov. 23; Gaz. vol. 220; p. 1269.
- Bracelet-link. A. Eklund. No. 1,162,227; Nov. 30; Gaz. vol. 220; p. 1520.
- Bracelet-link. A. Eklund. No. 1,162,228; Nov. 30; Gaz. vol. 220; p. 1521.
- Bracelet-link. B. Goldstein. No. 1,142,160; June 8; Gaz. vol. 215; p. 414.
- Bracelet link, Expandible. R. King. No. 1,141,552; June 1; Gaz. vol. 215; p. 166.
- Bracelet or endless chain. R. King. No. 1,132,099; Mar. 16; Gaz. vol. 212; p. 857.
- Bracelets, Expandible securing device for watch-. C. L. Depollier and E. C. Duncuff. No. 1,151,927; Aug. 31; Gaz. vol. 217; p. 1476.
- Bracelets, Locking device for watch-. C. L. Depollier. No. 1,131,682; Mar. 16; Gaz. vol. 212; p. 707.
- Bracelets, Securing device for expandible. C. L. Depollier. No. 1,158,900; Nov. 2; Gaz. vol. 220; p. 172.
- Bracelets, Watch-holder attachment for. A. Y. Cunningham. No. 1,130,381; Mar. 2; Gaz. vol. 212; p. 188.
- Bracket. *See—*
- Adjustable bracket. Outlet-box bracket.
- Axle-bracket. Paper-bracket.
- Bedpost-bracket. Radiator-bracket.
- Bedstead corner-bracket. Rafter-bracket.
- Bumper-beam step-bracket. Roof-bracket.
- Car-door bracket. Roof-scaffold bracket.
- Car-door-supporting bracket. Roofing bracket.
- Collapsible bracket. Running-board bracket.
- Corner-bracket. Scaffold-bracket.
- Counter-bracket. Shade-bracket.
- Curtain-bracket. Shade and curtain bracket.
- Curtain-holding bracket. Shade-roller bracket.
- Curtain-rod bracket. Shingle-bracket.
- Drapery-bracket. Shingling-bracket.
- Headlight-bracket. Show-case bracket.
- Insulator-bracket. Slidable bracket.
- Ladder-bracket. Slidably-adjustable bracket.
- Lamp-bracket. Spring-bracket.
- Lamp-supporting deck-bracket. Supporting-bracket.
- Lightning-rod-point bracket. Tag-bracket.
- Mirror-bracket. Trolley-track bracket.
- Wind-shield ventilator bracket.
- Bracket. G. E. Anderson. No. 1,136,752; Apr. 20; Gaz. vol. 213; p. 1029.
- Bracket. B. A. Berger. No. 1,156,129; Oct. 12; Gaz. vol. 219; p. 306.
- Bracket. R. Kiesel. No. 1,157,787; Oct. 26; Gaz. vol. 219; p. 978.
- Bracket. F. J. Spuhler. No. 1,149,963; Aug. 10; Gaz. vol. 217; p. 632.
- Bracket and fixture. W. Lumley. No. 1,160,736; Nov. 16; Gaz. vol. 220; p. 906.
- Braid, Manufacture of tasseled. C. Webb. No. 1,158,603; Nov. 2; Gaz. vol. 220; p. 69.

Alphabetical list of inventions—Continued.

- Braider, Circular. A. L. De Leeuw. No. 1,141,382; June 1; Gaz. vol. 215; p. 106.
- Braider mechanism. F. Bentley. No. 1,154,964; Sept. 28; Gaz. vol. 218; p. 1008.
- Braiding and bobbin machines, Bobbin for. E. Schmachtl. No. 1,149,089; Aug. 3; Gaz. vol. 217; p. 213.
- Braiding-carrier. A. Henkels. No. 1,154,017; Sept. 21; Gaz. vol. 218; p. 656.
- Braiding, lace-making, and like machines, Spool-carrier for. E. Schmachtl. No. 1,149,088; Aug. 3; Gaz. vol. 217; p. 212.
- Braiding-machine. H. Z. Cobb. No. 1,133,364; Mar. 30; Gaz. vol. 212; p. 1403.
- Braiding-machine. E. Krenzler. No. 1,141,555; June 1; Gaz. vol. 215; p. 167.
- Braiding-machine. J. Lundgren. No. 1,144,716; June 29; Gaz. vol. 215; p. 1396.
- Braiding-machine. W. G. Pegg. No. 1,165,361; Dec. 21; Gaz. vol. 221; p. 1003.
- Braiding-machine. R. C. Rahm. No. 1,153,826; Sept. 14; Gaz. vol. 218; p. 556.
- Braiding-machine carrier. W. H. Joslin. No. 1,137,490; Apr. 27; Gaz. vol. 213; p. 1330.
- Braiding-machine carrier. A. Littlefield. No. 1,124,480; Jan. 12; Gaz. vol. 210; p. 491.
- Braiding-machine carrier. G. F. McCahey. No. 1,138,231; May 4; Gaz. vol. 214; p. 177.
- Braiding-machine carrier. A. Paquette. No. 1,138,243; May 4; Gaz. vol. 214; p. 182.
- Braiding-machine mold-feeding attachment. R. C. Rahm. No. 1,161,075; Nov. 23; Gaz. vol. 220; p. 1069.
- Braiding-machine thread-carrier. J. B. Chace. No. 1,125,651; Jan. 19; Gaz. vol. 210; p. 943.
- Brake; See—
- Air-brake. Hydraulic brake.
 - Automatic brake. Light and load brake.
 - Automobile safety-brake. Machine-brake.
 - Automobile steering-wheel brake. Motor-brake.
 - Band-brake. Press-brake.
 - Car-brake. Rail-brake.
 - Car and logging-sled brake. Railway-brake.
 - Centrifugally-operated brake. Railway band-brake.
 - Clasp-brake. Reel-brake.
 - Coaster-brake. Safety-brake.
 - Continuous brake. Shaft-brake.
 - Crane-brake. Ship-brake.
 - Drum-brake. Ship's emergency-brake.
 - Electromagnetic brake. Sled-brake.
 - Electropneumatic brake. Toe-brake.
 - Emergency-brake. Track-brake.
 - Fluid-brake. Truck-brake.
 - Fluid-pressure brake. Vehicle-brake.
 - Flying-machine brake. Wagon-brake.
 - Friction-brake. Water-brake.
 - Wheel-brake.
 - Windmill-brake.
- Brake. W. H. Benjamin. No. 1,135,872; Apr. 13; Gaz. vol. 213; p. 676.
- Brake. F. Fawver. No. 1,135,885; Apr. 13; Gaz. vol. 213; p. 680.
- Brake. G. G. Floyd. No. 1,135,512; Apr. 13; Gaz. vol. 213; p. 549.
- Brake. F. Frame. No. 1,136,788; Apr. 20; Gaz. vol. 213; p. 1041.
- Brake. H. Frood. No. 1,136,665; Apr. 20; Gaz. vol. 213; p. 997.
- Brake. A. H. Hale. No. 1,153,382; Sept. 14; Gaz. vol. 218; p. 399.
- Brake. W. C. Hedgcock. No. 1,165,669; Dec. 28; Gaz. vol. 221; p. 1151.
- Brake. N. E. Hirsch. No. 1,145,416; July 6; Gaz. vol. 216; p. 154.
- Brake. W. A. Hunter. No. 1,144,359; June 29; Gaz. vol. 215; p. 1275.
- Brake. J. T. Leonard. No. 1,159,238; Nov. 2; Gaz. vol. 220; p. 289.
- Brake. F. M. Moulton. No. 1,151,374; Aug. 24; Gaz. vol. 217; p. 1238.
- Brake. E. F. Orner. No. 1,154,426; Sept. 21; Gaz. vol. 218; p. 796.
- Brake. O. J. Peterson. No. 1,148,400; July 27; Gaz. vol. 216; p. 1269.
- Brake. E. W. Smith. No. 1,159,113; Nov. 2; Gaz. vol. 220; p. 243.
- Brake. J. Zoller and R. Schuster. No. 1,131,810; Mar. 16; Gaz. vol. 212; p. 754.
- Brake-actuating mechanism for vehicles and trains. E. Pennati and M. Cattori. No. 1,136,712; Apr. 20; Gaz. vol. 213; p. 1015.
- Brake-actuating mechanism, Wagon. P. H. Blazer. No. 1,165,648; Dec. 28; Gaz. vol. 221; p. 1144.
- Brake and brake-liner. W. T. Bonner. No. 1,141,606; June 1; Gaz. vol. 215; p. 186.
- Brake and lever lock. P. V. Carpenter. No. 1,135,435; Apr. 13; Gaz. vol. 213; p. 522.
- Brake and transmission rods, Coupling for. L. Cottingham. No. 1,157,618; Oct. 19; Gaz. vol. 219; p. 854.
- Brake apparatus. T. M. Peery. No. 1,162,805; Dec. 7; Gaz. vol. 221; p. 26.
- Brake apparatus, Electropneumatic. W. V. Turner. No. 1,165,639; Dec. 28; Gaz. vol. 221; p. 1141.
- Brake apparatus, Empty and load. W. V. Turner. No. 1,125,215; Jan. 19; Gaz. vol. 210; p. 789.
- Brake apparatus, Fluid-pressure. F. H. Whitney. No. 1,131,977; Mar. 16; Gaz. vol. 212; p. 814.
- Brake apparatus, Load. W. V. Turner. No. 1,131,967; Mar. 16; Gaz. vol. 212; p. 810.
- Brake-applying mechanism for trains. N. A. Oliver. No. 1,133,497; Mar. 30; Gaz. vol. 212; p. 1449.
- Brake attachment to vehicles. J. Holliday. No. 1,138,871; May 11; Gaz. vol. 214; p. 443.
- Brake-band clip. J. Geiss. No. 1,145,302; July 6; Gaz. vol. 216; p. 114.
- Brake-beam. C. E. Bauer. No. 1,151,650; Aug. 31; Gaz. vol. 217; p. 1380.
- Brake-beam. S. A. Crone. No. 1,142,498; June 8; Gaz. vol. 215; p. 535.
- Brake-beam. A. R. Peffers. No. 1,161,329; Nov. 23; Gaz. vol. 220; p. 1161.
- Brake-beam. J. M. Rohlfing. No. 1,140,614; May 25; Gaz. vol. 214; p. 1126.
- Brake-beam. J. M. Rohlfing. No. 1,140,615; May 25; Gaz. vol. 214; p. 1127.
- Brake-beam. L. L. Whitney. No. 1,140,089; May 18; Gaz. vol. 214; p. 908.
- Brake-beam. C. H. Williams, Jr. No. 1,144,403; June 29; Gaz. vol. 215; p. 1289.
- Brake-beam-assembling machine. F. R. Weaver. No. 1,144,974; June 29; Gaz. vol. 215; p. 1484.
- Brake-beam fulcrum. G. V. Tomlin. No. 1,145,527; July 6; Gaz. vol. 216; p. 193.
- Brake-beam holder. A. Holt. No. 1,129,094; Feb. 23; Gaz. vol. 211; p. 975.
- Brake-beam post or strut. E. M. Applebaugh and G. M. Keller. No. 1,152,262; Aug. 31; Gaz. vol. 217; p. 1591.
- Brake-beam safety-hanger. E. O. Elliott. No. 1,147,793; July 27; Gaz. vol. 216; p. 1052.
- Brake-beam strut. J. M. Rohlfing. No. 1,140,616; May 25; Gaz. vol. 214; p. 1127.
- Brake-beam strut, Reversible. N. H. Davis. No. 1,163,741; Dec. 14; Gaz. vol. 221; p. 398.
- Brake-beam support, Emergency. J. W. Weinland. No. 1,165,733; Dec. 28; Gaz. vol. 221; p. 1174.
- Brake-beams, Safety-hanger for. J. W. Weinland. No. 1,165,732; Dec. 28; Gaz. vol. 221; p. 1174.
- Brake-beams, Third-point support for. C. H. Williams, Jr. No. 1,126,328; Jan. 26; Gaz. vol. 210; p. 1220.
- Brake-beams, Third-point support for. C. H. Williams, Jr. No. 1,126,329; Jan. 26; Gaz. vol. 210; p. 1221.
- Brake-beams, Third-point support for. C. H. Williams, Jr. No. 1,148,134; July 27; Gaz. vol. 216; p. 1176.
- Brake-beams, Third-point support for. C. H. Williams, Jr. (Reissue.) No. 1,4034; Dec. 21; Gaz. vol. 221; p. 1009.
- Brake-block holder. P. Kruebling. No. 1,134,872; Apr. 6; Gaz. vol. 213; p. 283.
- Brake-block suspension device. J. E. Anger. No. 1,164,447; Dec. 14; Gaz. vol. 221; p. 645.
- Brake-control apparatus, Automatic train. W. V. Turner. No. 1,129,319; Feb. 23; Gaz. vol. 211; p. 1054.
- Brake device, Fluid-pressure. W. V. Turner. No. 1,153,275; Sept. 14; Gaz. vol. 218; p. 359.
- Brake device, Hydraulic. M. Houdaille. No. 1,141,246; June 1; Gaz. vol. 215; p. 55.
- Brake-dog. A. Willson. No. 1,137,300; Apr. 27; Gaz. vol. 213; p. 1263.
- Brake-drum. C. B. King, C. R. Weston, H. E. Roush, and G. Holmes. No. 1,159,502; Nov. 9; Gaz. vol. 220; p. 413.
- Brake for trolley-drums and the like. A. C. Johnston. No. 1,140,829; May 25; Gaz. vol. 214; p. 1200.
- Brake for use on hoisting devices. H. Graumüller. No. 1,154,508; Sept. 21; Gaz. vol. 218; p. 824.
- Brake-gear for motor-vehicles. E. D. Caldwell. No. 1,124,291; Jan. 12; Gaz. vol. 210; p. 423.
- Brake-handle. E. A. Evans and A. U. Willing. No. 1,162,994; Dec. 7; Gaz. vol. 221; p. 90.
- Brake-handle arrester. E. T. Gibson. No. 1,134,261; Apr. 6; Gaz. vol. 213; p. 65.
- Brake-hanger, Non-chattering. A. Wallace. No. 1,138,430; May 4; Gaz. vol. 214; p. 250.
- Brake-head. C. E. Bauer. No. 1,135,490; Apr. 13; Gaz. vol. 213; p. 541.
- Brake-head. W. L. Boyer. No. 1,152,391; Sept. 7; Gaz. vol. 218; p. 4.
- Brake-head. J. Bragg. No. 1,137,252; Apr. 27; Gaz. vol. 213; p. 1245.
- Brake-head. N. H. Davis. No. 1,163,742; Dec. 14; Gaz. vol. 221; p. 399.
- Brake-head. G. G. Floyd. No. 1,165,600; Dec. 28; Gaz. vol. 221; p. 1148.
- Brake-head. C. S. Knapp. No. 1,124,915; Jan. 12; Gaz. vol. 210; p. 646.
- Brake-head. A. H. Peycke. No. 1,140,058; May 18; Gaz. vol. 214; p. 897.
- Brake-head. F. Sargent. No. 1,126,874; Feb. 2; Gaz. vol. 211; p. 74.
- Brake-head. F. Sargent. No. 1,160,453; Nov. 16; Gaz. vol. 220; p. 802.
- Brake-head, Adjustable. W. C. Hedgcock. No. 1,140,035; May 18; Gaz. vol. 214; p. 889.
- Brake-head, Adjustable. A. H. Peycke. No. 1,140,057; May 18; Gaz. vol. 214; p. 896.

- Brake-head, Adjustable. J. W. Weinland. No. 1,143,671; June 22; Gaz. vol. 215; p. 1006.
- Brake jaw or fork. G. W. Kelly. No. 1,165,514; Dec. 28; Gaz. vol. 221; p. 1095.
- Brake leveling and safety device. W. C. Hedgecock. No. 1,143,704; June 22; Gaz. vol. 215; p. 1017.
- Brake-lever, Trussed. F. Schaefer. No. 1,164,405; Dec. 14; Gaz. vol. 221; p. 630.
- Brake-lock. A. A. Lhuam. No. 1,127,035; Feb. 2; Gaz. vol. 211; p. 132.
- Brake lock, Internal coaster. W. C. Chapman. No. 1,141,774; June 1; Gaz. vol. 215; p. 241.
- Brake-lock, Vehicle. A. H. Marlienne. No. 1,124,232; Jan. 5; Gaz. vol. 210; p. 354.
- Brake-mast. J. P. Anderson. No. 1,159,883; Nov. 9; Gaz. vol. 220; p. 531.
- Brake mechanism. G. S. Ackley. No. 1,158,764; Nov. 2; Gaz. vol. 220; p. 124.
- Brake mechanism. W. C. Baker. No. 1,132,540; Mar. 16; Gaz. vol. 212; p. 1020.
- Brake mechanism. W. C. Baker. No. 1,132,541; Mar. 16; Gaz. vol. 212; p. 1020.
- Brake mechanism. C. S. Blue. No. 1,123,471; Jan. 5; Gaz. vol. 210; p. 94.
- Brake mechanism. J. Farrell. No. 1,145,061; July 6; Gaz. vol. 216; p. 32.
- Brake mechanism. L. A. Hoerr. No. 1,149,579; Aug. 10; Gaz. vol. 217; p. 491.
- Brake mechanism. L. A. Hoerr. No. 1,156,479; Oct. 12; Gaz. vol. 219; p. 427.
- Brake mechanism. L. A. Hoerr. No. 1,156,480; Oct. 12; Gaz. vol. 219; p. 427.
- Brake mechanism. F. Horn. No. 1,147,507; July 20; Gaz. vol. 216; p. 926.
- Brake mechanism. I. A. Machamer. No. 1,159,240; Nov. 2; Gaz. vol. 220; p. 289.
- Brake mechanism. G. C. McNeil. No. 1,134,474; Apr. 6; Gaz. vol. 213; p. 143.
- Brake mechanism. F. H. Royce. No. 1,163,776; Dec. 14; Gaz. vol. 221; p. 410.
- Brake mechanism. S. E. Taft. No. 1,149,969; Aug. 10; Gaz. vol. 217; p. 634.
- Brake mechanism. S. E. Taft. No. 1,149,970; Aug. 10; Gaz. vol. 217; p. 635.
- Brake mechanism, Automatic. J. W. Beeler. No. 1,125,638; Jan. 19; Gaz. vol. 210; p. 938.
- Brake mechanism, Automatic. W. F. Conklin. No. 1,162,573; Nov. 30; Gaz. vol. 220; p. 1638.
- Brake mechanism, Electrically-controlled. E. H. Dewson and W. V. Turner. No. 1,131,218; Mar. 9; Gaz. vol. 212; p. 511.
- Brake mechanism for hoisting apparatus. E. Pavelka. No. 1,163,169; Dec. 7; Gaz. vol. 221; p. 152.
- Brake mechanism for maximum-traction trucks. J. A. Brooks. No. 1,138,842; May 11; Gaz. vol. 214; p. 433.
- Brake mechanism for motor-vehicles. A. C. Boyd. No. 1,146,918; July 20; Gaz. vol. 216; p. 720.
- Brake mechanism for shipper-shafts. C. B. King and H. T. Gracely. No. 1,162,074; Nov. 30; Gaz. vol. 220; p. 1467.
- Brake mechanism, Hydraulic. B. Nagelvoort. No. 1,149,938; Aug. 10; Gaz. vol. 217; p. 623.
- Brake mechanism, Hydraulic. F. H. Trego. No. 1,147,579; July 20; Gaz. vol. 216; p. 951.
- Brake mechanism, Load-regulated. W. G. Ransom. No. 1,133,667; Mar. 30; Gaz. vol. 212; p. 1513.
- Brake mechanism, Ratchet. R. H. Blackall. No. 1,136,090; Apr. 20; Gaz. vol. 213; p. 792.
- Brake mechanism, Shaft. J. H. Pringle. No. 1,136,266; Apr. 20; Gaz. vol. 213; p. 855.
- Brake mechanism, Windlass. H. Hanson. No. 1,140,374; May 25; Gaz. vol. 214; p. 1041.
- Brake-operating device. J. W. Brown. No. 1,124,998; Jan. 12; Gaz. vol. 210; p. 675.
- Brake-operating mechanism. J. S. McWhirter. No. 1,163,675; Dec. 14; Gaz. vol. 221; p. 373.
- Brake-pipe vent-valve device. W. V. Turner and P. H. Donovan. No. 1,133,341; Mar. 30; Gaz. vol. 212; p. 1394.
- Brake-ratchet. G. Sandifer. No. 1,145,217; July 6; Gaz. vol. 216; p. 83.
- Brake-release. W. C. Hedgecock. No. 1,143,705; June 22; Gaz. vol. 215; p. 1017.
- Brake-releaser, Automatic. E. O. Hentschel and F. C. Harting. No. 1,147,242; July 20; Gaz. vol. 216; p. 834.
- Brake-rigging. T. L. Burton. No. 1,166,176; Dec. 28; Gaz. vol. 221; p. 1329.
- Brake-rigging. T. L. Burton. No. 1,166,177; Dec. 28; Gaz. vol. 221; p. 1330.
- Brake-rigging. T. L. Burton. No. 1,166,178; Dec. 28; Gaz. vol. 221; p. 1330.
- Brake-rigging. C. F. Moore. No. 1,147,036; July 20; Gaz. vol. 216; p. 762.
- Brake-rigging, Clasp. T. L. Burton. No. 1,166,179; Dec. 28; Gaz. vol. 221; p. 1330.
- Brake-rigging, Foundation. T. L. Burton. No. 1,166,180; Dec. 28; Gaz. vol. 221; p. 1331.
- Brake-rigging, Locomotive. F. E. Schwentler. No. 1,138,253; May 4; Gaz. vol. 214; p. 185.
- Brake-rigging, Radial-truck. F. E. Schwentler. No. 1,138,252; May 4; Gaz. vol. 214; p. 185.
- Brake-rigging safety appliance. J. D. Thompson. No. 1,163,046; Dec. 7; Gaz. vol. 221; p. 109.
- Brake-rod, Adjustable. D. C. Lough. No. 1,156,789; Oct. 12; Gaz. vol. 219; p. 534.
- Brake-rod jaw. F. Schaefer. No. 1,164,406; Dec. 14; Gaz. vol. 221; p. 630.
- Brake-setting mechanism for pneumatic brakes, Automatic. R. J. Weldon. No. 1,124,082; Jan. 5; Gaz. vol. 210; p. 500.
- Brake-shaft. H. Pries. No. 1,137,082; Apr. 27; Gaz. vol. 213; p. 1183.
- Brake-shoe. A. Brake. No. 1,143,494; June 15; Gaz. vol. 215; p. 920.
- Brake-shoe. C. W. Blue. No. 1,153,753; Sept. 14; Gaz. vol. 218; p. 529.
- Brake-shoe. H. E. Bullock. No. 1,160,971; Nov. 16; Gaz. vol. 220; p. 988.
- Brake-shoe. G. J. Carter. No. 1,128,224; Feb. 9; Gaz. vol. 211; p. 587.
- Brake-shoe. G. W. Chipley. No. 1,136,936; Apr. 27; Gaz. vol. 213; p. 1129.
- Brake-shoe. J. A. Connelly. No. 1,153,154; Sept. 7; Gaz. vol. 218; p. 278.
- Brake-shoe. W. Duschnitz. No. 1,143,518; June 15; Gaz. vol. 215; p. 927.
- Brake-shoe. J. D. Gallagher and H. Jones. No. 1,159,007; Nov. 2; Gaz. vol. 220; p. 207.
- Brake-shoe. J. D. Gallagher and H. Jones. No. 1,159,009; Nov. 2; Gaz. vol. 220; p. 208.
- Brake-shoe. J. D. Gallagher and H. Jones. No. 1,159,010; Nov. 2; Gaz. vol. 220; p. 208.
- Brake-shoe. F. W. Grant. No. 1,134,609; Apr. 6; Gaz. vol. 213; p. 191.
- Brake-shoe. T. P. Hines. No. 1,163,923; Dec. 14; Gaz. vol. 221; p. 461.
- Brake-shoe. H. Jones. No. 1,130,171; Mar. 2; Gaz. vol. 212; p. 114.
- Brake-shoe. H. Jones. No. 1,132,944; Mar. 23; Gaz. vol. 212; p. 1217.
- Brake-shoe. H. Jones. No. 1,144,601; June 29; Gaz. vol. 215; p. 1355.
- Brake-shoe. A. T. Lockard. No. 1,158,517; Nov. 2; Gaz. vol. 220; p. 38.
- Brake-shoe. A. G. Olberding and T. Elliott. No. 1,145,031; July 6; Gaz. vol. 216; p. 20.
- Brake-shoe. C. D. Pettis. No. 1,138,784; May 11; Gaz. vol. 214; p. 412.
- Brake-shoe. W. L. Post. No. 1,139,798; May 18; Gaz. vol. 214; p. 804.
- Brake-shoe. M. P. Reynolds. No. 1,155,685; Oct. 5; Gaz. vol. 219; p. 126.
- Brake-shoe. F. Sargent. No. 1,158,561; Nov. 2; Gaz. vol. 220; p. 54.
- Brake-shoe. F. Sargent. No. 1,158,562; Nov. 2; Gaz. vol. 220; p. 55.
- Brake-shoe. G. H. Sargent. No. 1,165,453; Dec. 28; Gaz. vol. 221; p. 1075.
- Brake-shoe. R. J. Stokes. No. 1,165,143; Dec. 21; Gaz. vol. 221; p. 930.
- Brake-shoe. A. L. Streeter. No. 1,142,380; June 8; Gaz. vol. 215; p. 492.
- Brake-shoe. J. S. Thompson. No. 1,130,680; Mar. 2; Gaz. vol. 212; p. 293.
- Brake-shoe. C. N. Winter. No. 1,130,231; Mar. 2; Gaz. vol. 212; p. 135.
- Brake-shoe. J. E. Worswick. No. 1,134,715; Apr. 6; Gaz. vol. 213; p. 231.
- Brake-shoe. C. D. Young. No. 1,124,379; Jan. 12; Gaz. vol. 210; p. 454.
- Brake-shoe back. F. Sargent. No. 1,160,454; Nov. 16; Gaz. vol. 220; p. 802.
- Brake-shoe back. F. W. Sargent. No. 1,157,183; Oct. 19; Gaz. vol. 219; p. 704.
- Brake-shoe, Composition. J. D. Gallagher and H. Jones. No. 1,159,008; Nov. 2; Gaz. vol. 220; p. 207.
- Brake-shoe, Composition-body. H. Jones. No. 1,156,689; Oct. 12; Gaz. vol. 219; p. 501.
- Brake-shoe, Flanged. F. Sargent. No. 1,127,096; Feb. 2; Gaz. vol. 211; p. 153.
- Brake-shoe, Interlocking. G. W. Chipley. No. 1,144,639; June 29; Gaz. vol. 215; p. 1368.
- Brake-shoe holder. J. Davis. No. 1,161,849; Nov. 30; Gaz. vol. 220; p. 1388.
- Brake-shoe mechanism. M. Benkovic. No. 1,123,468; Jan. 5; Gaz. vol. 210; p. 93.
- Brake-shoe, Segmental. H. Jones. No. 1,129,986; Mar. 2; Gaz. vol. 212; p. 52.
- Brake-shoe, Two-piece welded. J. M. Yount. No. 1,127,841; Feb. 9; Gaz. vol. 211; p. 454.
- Brake-shoe, Vehicle. M. Stefanka. No. 1,130,939; Mar. 9; Gaz. vol. 212; p. 416.
- Brake-shoes, Forming. J. D. Gallagher and H. Jones. No. 1,160,398; Nov. 16; Gaz. vol. 220; p. 783.
- Brake-shoes, Reinforcing-back for. F. Sargent. No. 1,158,563; Nov. 2; Gaz. vol. 220; p. 55.
- Brake-shoes, Reinforcing-back for. F. Sargent. No. 1,158,564; Nov. 2; Gaz. vol. 220; p. 55.
- Brake slack-adjuster, Clasp. W. H. Sauvage. No. 1,124,813; Jan. 12; Gaz. vol. 210; p. 610.
- Brake slack-adjuster, Railway. C. O. Anderson. No. 1,125,035; Jan. 19; Gaz. vol. 210; p. 723.

Alphabetical list of inventions—Continued.

- Brake slack-adjuster, Railway-. W. H. Sauvage. No. 1,136,620; Apr. 20; Gaz. vol. 213; p. 982.
- Brake slack-adjuster, Railway-. W. H. Sauvage. No. 1,143,554; June 15; Gaz. vol. 215; p. 940.
- Brake-staff, Adjustable. F. L. Barber and E. W. Webb. No. 1,130,955; Mar. 9; Gaz. vol. 212; p. 421.
- Brake-step. W. S. Atwood. No. 1,154,160; Sept. 21; Gaz. vol. 218; p. 705.
- Brake-step. T. N. Russell. No. 1,160,090; Nov. 9; Gaz. vol. 220; p. 622.
- Brake-support for vehicle-axles. E. E. Arnold. No. 1,162,737; Dec. 7; Gaz. vol. 220; p. 3.
- Brake system for detachable-truck trains. C. W. Russell. No. 1,161,978; Nov. 30; Gaz. vol. 220; p. 1434.
- Brake systems, Slack take-up for fluid-pressure. G. Christenson. No. 1,158,177; Oct. 26; Gaz. vol. 219; p. 1116.
- Brake-valve device. B. S. Aikman. No. 1,156,871; Oct. 19; Gaz. vol. 219; p. 593.
- Brake-valve device. W. V. Turner. No. 1,133,339; Mar. 30; Gaz. vol. 212; p. 1393.
- Brake-valve device. W. V. Turner. No. 1,143,334; June 15; Gaz. vol. 215; p. 865.
- Brake wheel, Hand-. F. J. Harrison and W. J. Knox. No. 1,139,676; May 18; Gaz. vol. 214; p. 762.
- Brakes, Automatic-adjusting air-escape valve for railway-. S. Cheney. No. 1,137,576; Apr. 27; Gaz. vol. 213; p. 1359.
- Brakes, Automatic air-escape valve for railway-. S. Cheney. No. 1,137,575; Apr. 27; Gaz. vol. 213; p. 1359.
- Brakes, Automatic slack-adjuster for. H. F. Wood and J. Gullage. No. 1,144,453; June 29; Gaz. vol. 215; p. 1306.
- Brakes, Control-valve device for fluid-pressure. W. V. Turner. No. 1,141,159; June 1; Gaz. vol. 215; p. 24.
- Brakes, Device for graduating the release of the. W. V. Turner. No. 1,131,181; Mar. 9; Gaz. vol. 212; p. 498.
- Brakes, Mechanical releasing means for electric. G. M. Marr. No. 1,154,701; Sept. 28; Gaz. vol. 218; p. 950.
- Brakes or the like, Pump and pressure-reservoir for. C. J. Spencer and J. W. Dawson. No. 1,158,007; Oct. 26; Gaz. vol. 219; p. 1055.
- Brakes, Spring-release for. W. C. Hedgecock. No. 1,143,706; June 22; Gaz. vol. 215; p. 1017.
- Braking apparatus for electrically-propelled vehicles. P. N. Jones. No. 1,152,096; Aug. 31; Gaz. vol. 217; p. 1534.
- Braking controller, Dynamic-. C. T. Henderson. No. 1,154,016; Sept. 21; Gaz. vol. 218; p. 656.
- Braking mechanism. T. V. Buckwalter. No. 1,135,097; Apr. 13; Gaz. vol. 213; p. 406.
- Braking system applicable to long freight-trains with loose couplings, Continuous. C. H. V. Sabouret. No. 1,158,300; Oct. 26; Gaz. vol. 219; p. 1158.
- Bran and middlings finisher. T. McFeely and L. Romick. No. 1,141,969; June 8; Gaz. vol. 215; p. 345.
- Branch box. M. Havens, Jr. No. 1,135,894; Apr. 13; Gaz. vol. 213; p. 684.
- Branching-machine. C. Wiebke. No. 1,150,984; Aug. 24; Gaz. vol. 217; p. 1107.
- Branding-iron. F. E. Balden. No. 1,148,819; Aug. 3; Gaz. vol. 217; p. 120.
- Branding-iron. J. C. Garner and W. Gutman. No. 1,157,687; Oct. 26; Gaz. vol. 219; p. 944.
- Branding or printing machines, Pneumatic feeding mechanism for. O. C. Fenlason. No. 1,148,371; July 27; Gaz. vol. 216; p. 1260.
- Branding-tool. H. H. Moore. No. 1,164,742; Dec. 21; Gaz. vol. 221; p. 787.
- Brass, aluminum, and other metals of high conductivity for heat, Uniting sheets of. N. Pröstler. No. 1,126,655; Jan. 26; Gaz. vol. 210; p. 1339.
- Brass, aluminum, and other metals or alloys of high conductivity for heat, Uniting sheets of. N. Pröstler. No. 1,134,007; Mar. 30; Gaz. vol. 212; p. 1627.
- Brassière. A. Malsin. No. 1,145,204; July 6; Gaz. vol. 216; p. 80.
- Brassière. J. Rovira. No. 1,144,001; June 22; Gaz. vol. 215; p. 1119.
- Brassière, Rust-reducer. M. Perillat. No. 1,156,808; Oct. 12; Gaz. vol. 219; p. 540.
- Bread and pastry and making the same, Mixture for making. D. Girouard. No. 1,152,087; Aug. 31; Gaz. vol. 217; p. 1532.
- Bread and spreading butter or the like thereon, Machine for cutting or slicing. F. von Eulenfeld. No. 1,158,014; Oct. 26; Gaz. vol. 219; p. 1057.
- Bread and the like, Finishing. A. S. Wahl. No. 1,155,530; Oct. 5; Gaz. vol. 219; p. 72.
- Bread-board. T. H. Marcott. No. 1,159,695; Nov. 9; Gaz. vol. 220; p. 482.
- Bread board or peel. A. F. Szczepanski. No. 1,135,634; Apr. 13; Gaz. vol. 213; p. 593.
- Bread-cutting gage. U. G. Coon. No. 1,131,333; Mar. 9; Gaz. vol. 212; p. 552.
- Bread, Making germ and bran. H. B. Alexander. No. 1,148,815; Aug. 3; Gaz. vol. 217; p. 120.
- Bread-making, Yeast-saving composition in. H. A. Kohman, C. Hoffman, and T. M. Godfrey. No. 1,151,526; Aug. 24; Gaz. vol. 217; p. 1290.
- Bread, Manufacture of. W. A. Hobbs. No. 1,131,698; Mar. 16; Gaz. vol. 212; p. 713.
- Bread, Manufacture of. H. A. Kohman, C. Hoffman, and A. E. Blake. No. 1,158,933; Nov. 2; Gaz. vol. 220; p. 183.
- Bread, Manufacture of. H. A. Kohman, C. Hoffman, and A. E. Blake. No. 1,158,934; Nov. 2; Gaz. vol. 220; p. 184.
- Bread, Manufacture of. H. A. Kohman, C. Hoffman, and T. M. Godfrey. No. 1,148,328; July 27; Gaz. vol. 216; p. 1245.
- Bread, Manufacture of. H. A. Kohman, C. Hoffman, and T. M. Godfrey. No. 1,148,329; July 27; Gaz. vol. 216; p. 1245.
- Bread-mixer. W. P. Nelson. No. 1,157,576; Oct. 19; Gaz. vol. 219; p. 841.
- Bread-molding machine. J. A. Schreiber. No. 1,156,185; Oct. 12; Gaz. vol. 219; p. 324.
- Bread sponge and dough raiser. J. Corr. No. 1,152,299; Aug. 31; Gaz. vol. 217; p. 1604.
- Bread-wrapping machine. C. Mettler. No. 1,140,522; May 25; Gaz. vol. 214; p. 1095.
- Bread-wrapping machine and machine for similar purposes. R. J. Seator. No. 1,140,620; May 25; Gaz. vol. 214; p. 1128.
- Breast-drill. O. D. Hapgood. No. 1,157,218; Oct. 19; Gaz. vol. 219; p. 717.
- Breast-shield. A. C. Barrett. No. 1,156,202; Oct. 12; Gaz. vol. 219; p. 329.
- Breast-strap and yoke connector. J. Reichert. No. 1,125,397; Jan. 19; Gaz. vol. 210; p. 855.
- Breastwork, Portable. R. W. Davis. No. 1,155,895; Oct. 5; Gaz. vol. 219; p. 198.
- Breath-guard. R. J. Lemonds. No. 1,124,472; Jan. 12; Gaz. vol. 210; p. 489.
- Breathing apparatus, Artificial-. J. H. Dräger. No. 1,136,517; Apr. 20; Gaz. vol. 213; p. 946.
- Breathing, Apparatus for the attainment of correct. V. Brow. No. 1,134,320; Apr. 6; Gaz. vol. 213; p. 87.
- Breathing apparatus, Freely-portable. F. L. Claren. No. 1,144,812; June 29; Gaz. vol. 215; p. 1430.
- Breathing-shield, Sanitary. E. C. Gunnarson. No. 1,127,988; Feb. 9; Gaz. vol. 211; p. 505.
- Breeching-loops. J. Reichert. No. 1,166,258; Dec. 28; Gaz. vol. 221; p. 1362.
- Brewing. B. Hehle. No. 1,154,989; Sept. 28; Gaz. vol. 218; p. 1017.
- Brewing. M. Hessberg. No. 1,146,793; July 20; Gaz. vol. 216; p. 676.
- Brick and making the same, Pure-kieselguhr. A. C. Hesselmeier. No. 1,143,826; June 22; Gaz. vol. 215; p. 1058.
- Brick and supporting means therefor. Arch-. J. P. L. T. No. 1,138,036; May 4; Gaz. vol. 214; p. 109.
- Brick and tile cutting machine. D. Brown. No. 1,166,409; Dec. 28; Gaz. vol. 221; p. 1414.
- Brick, Arch-. J. P. Neff. No. 1,138,033; May 4; Gaz. vol. 214; p. 108.
- Brick cleaning and refacing machine. O. Van der Meersch. No. 1,135,127; Apr. 13; Gaz. vol. 213; p. 417.
- Brick conveyor and drier, Combination. C. Blaul and F. H. Kimmich. No. 1,129,444; Feb. 23; Gaz. vol. 211; p. 1098.
- Brick-cut-off table. J. G. Barbour. No. 1,152,873; Sept. 7; Gaz. vol. 218; p. 181.
- Brick-cutting machines, Guide means for. A. H. Nelson. No. 1,164,846; Dec. 21; Gaz. vol. 221; p. 824.
- Brick-die. C. C. Kesty. No. 1,138,573; May 4; Gaz. vol. 214; p. 296.
- Brick-die. C. C. Kesty. No. 1,138,663; May 11; Gaz. vol. 214; p. 367.
- Brick-drier. J. C. Boss. No. 1,147,601; July 20; Gaz. vol. 216; p. 959.
- Brick-drying pallet. E. P. Stevens. No. 1,150,074; Aug. 17; Gaz. vol. 217; p. 732.
- Brick, Fire-. H. Tanner. No. 1,164,680; Dec. 21; Gaz. vol. 221; p. 767.
- Brick-forming die. L. Warstler and P. F. Loichot. No. 1,140,640; May 25; Gaz. vol. 214; p. 1135.
- Brick, Forming paving-. J. G. Adderson. No. 1,156,574; Oct. 12; Gaz. vol. 219; p. 461.
- Brick-handling machine. E. Gurney. No. 1,131,507; Mar. 9; Gaz. vol. 212; p. 612.
- Brick-handling machine, Automatic. W. H. Allen. No. 1,125,630; Jan. 19; Gaz. vol. 210; p. 935.
- Brick-kiln. L. W. Flood. No. 1,160,156; Nov. 16; Gaz. vol. 220; p. 700.
- Brick-kiln. A. Klose. No. 1,160,987; Nov. 16; Gaz. vol. 220; p. 994.
- Brick-kiln. K. W. Klose. No. 1,138,387; May 4; Gaz. vol. 214; p. 235.
- Brick-kiln. F. W. Milles. No. 1,159,062; Nov. 2; Gaz. vol. 220; p. 225.
- Brick-kiln. J. V. Montrieff. No. 1,146,197; July 13; Gaz. vol. 216; p. 448.
- Brick-kiln. L. D. Oliver. No. 1,144,334; June 22; Gaz. vol. 215; p. 1237.
- Brick-kiln. C. Smith. No. 1,159,539; Nov. 9; Gaz. vol. 220; p. 425.
- Brick-kiln construction. K. W. Klose. No. 1,138,386; May 4; Gaz. vol. 214; p. 235.
- Brick-kilns, Air-box of. J. C. Boss. No. 1,138,532; May 4; Gaz. vol. 214; p. 283.

Alphabetical list of inventions—Continued.

- Brick lifting and transferring mechanism. W. P. Israel. No. 1,134,953; Apr. 6; Gaz. vol. 213; p. 310.
- Brick-lifting apparatus. R. C. Penfield. No. 1,144,779; June 29; Gaz. vol. 215; p. 1418.
- Brick-machine. H. J. Gerbsch. No. 1,157,862; Oct. 26; Gaz. vol. 219; p. 1004.
- Brick-machine. E. D. Mattes. No. 1,160,307; Nov. 16; Gaz. vol. 220; p. 752.
- Brick-machine. J. J. Palmer. No. 1,123,358; Jan. 5; Gaz. vol. 210; p. 56.
- Brick-machine. E. F. Wege. No. 1,136,743; Apr. 20; Gaz. vol. 213; p. 1026.
- Brick machine, Plastic. F. W. Smith and R. E. Gearhart. No. 1,165,632; Dec. 28; Gaz. vol. 221; p. 1137.
- Brick-mold-handling mechanism. G. J. Kerscher and E. H. Forster. No. 1,125,557; Jan. 19; Gaz. vol. 210; p. 909.
- Brick mold, Wet-process cement. J. G. Bowen. No. 1,158,973; Nov. 2; Gaz. vol. 220; p. 195.
- Brick-pallet. A. J. and F. F. Bentley. No. 1,140,104; May 18; Gaz. vol. 214; p. 914.
- Brick-sanding machine. R. C. Penfield. No. 1,161,516; Nov. 23; Gaz. vol. 220; p. 1228.
- Brick-setting machine. M. F. Bultge. No. 1,131,905; Mar. 16; Gaz. vol. 212; p. 788.
- Brick-surfacing machine. C. F. Thomas. No. 1,131,441; Mar. 9; Gaz. vol. 212; p. 589.
- Bricks, Device for simultaneously cutting and closing hollow. K. Johannemann. No. 1,131,705; Mar. 16; Gaz. vol. 212; p. 715.
- Bricks in stacked units, Apparatus for handling. R. C. Penfield. No. 1,150,061; Aug. 17; Gaz. vol. 217; p. 727.
- Bricks, Manufacturing. E. E. Trowbridge. No. 1,154,741; Sept. 28; Gaz. vol. 218; p. 933.
- Bricks, Ornamenting. F. A. Hoiles. No. 1,154,118; Sept. 21; Gaz. vol. 218; p. 691.
- Brickmaking-machine. F. E. Flack. No. 1,149,747; Aug. 10; Gaz. vol. 217; p. 554.
- Brickmaking-machine. E. Gurney. No. 1,131,506; Mar. 9; Gaz. vol. 212; p. 611.
- Brickmaking-machine. E. Gurney. No. 1,131,626; Mar. 9; Gaz. vol. 212; p. 652.
- Brickmaking-machine. E. Gurney. No. 1,131,627; Mar. 9; Gaz. vol. 212; p. 653.
- Brickmaking-machine. D. E. Reagan. No. 1,146,594; July 13; Gaz. vol. 216; p. 589.
- Brickmaking-machine attachment. W. B. Ferris. No. 1,146,144; July 13; Gaz. vol. 216; p. 430.
- Brickmaking-machines, Die for. H. R. Ireland. No. 1,138,114; May 4; Gaz. vol. 214; p. 139.
- Brickmaking, Off-bearing machine for. H. C. Kunkle. No. 1,129,208; Feb. 23; Gaz. vol. 211; p. 1015.
- Brickmaking process and machine. E. H. Rodgers. No. 1,157,421; Oct. 19; Gaz. vol. 219; p. 790.
- Bridge. T. J. and W. V. Moore. No. 1,153,099; Sept. 7; Gaz. vol. 218; p. 261.
- Bridge. J. B. Strauss. No. 1,150,975; Aug. 24; Gaz. vol. 217; p. 1104.
- Bridge. J. B. Strauss. No. 1,157,449; Oct. 19; Gaz. vol. 219; p. 799.
- Bridge. J. B. Strauss. No. 1,157,450; Oct. 19; Gaz. vol. 219; p. 799.
- Bridge-anchor. N. Cool. No. 1,162,038; Nov. 30; Gaz. vol. 220; p. 1454.
- Bridge, Bascule. T. E. Brown. No. 1,151,657; Aug. 31; Gaz. vol. 217; p. 1382.
- Bridge, Bascule. C. McKibben. No. 1,128,478; Feb. 16; Gaz. vol. 211; p. 725.
- Bridge, Bascule. J. B. Strauss. No. 1,124,356; Jan. 12; Gaz. vol. 210; p. 446.
- Bridge, Bascule. J. B. Strauss. No. 1,150,643; Aug. 17; Gaz. vol. 217; p. 933.
- Bridge, Lift. C. G. E. Larsson. No. 1,124,922; Jan. 12; Gaz. vol. 210; p. 648.
- Bridge-lifting mechanism. F. C. Osborn. No. 1,158,546; Nov. 2; Gaz. vol. 220; p. 49.
- Bridge-locking mechanism. D. L. Reehl. No. 1,145,166; July 6; Gaz. vol. 216; p. 67.
- Bridge-maneuvering apparatus. K. Ito. No. 1,150,941; Aug. 24; Gaz. vol. 217; p. 1093.
- Bridge-mold. J. G. Miller. No. 1,135,312; Apr. 13; Gaz. vol. 213; p. 479.
- Bridge, Pivotal suspension. A. C. Rush. No. 1,146,283; July 13; Gaz. vol. 216; p. 477.
- Bridge, Platform. J. E. Howard. No. 1,131,783; Mar. 16; Gaz. vol. 212; p. 744.
- Bridge, Safety. M. F. Slattey and C. A. Diehm. No. 1,158,866; Nov. 2; Gaz. vol. 220; p. 161.
- Bridge, Suspension. N. H. Sturgis. No. 1,143,866; June 22; Gaz. vol. 215; p. 1072.
- Bridge, Swing. J. B. Strauss. No. 1,158,084; Oct. 26; Gaz. vol. 219; p. 1083.
- Bridge, Vertical-lift. T. Rall. No. 1,140,316; May 18; Gaz. vol. 214; p. 985.
- Bridges, Rail-clamp for traveling. R. E. Brown and E. C. Gaines. No. 1,153,672; Sept. 14; Gaz. vol. 218; p. 501.
- Bridges, Waterproof concrete floor for. A. H. Rhett. No. 1,128,047; Feb. 9; Gaz. vol. 211; p. 526.
- Bridle. O. Brockman. No. 1,153,023; Sept. 7; Gaz. vol. 218; p. 235.
- Bridle. C. W. Campbell. No. 1,125,465; Jan. 19; Gaz. vol. 210; p. 877.
- Bridle. A. J. Hentschel. No. 1,132,182; Mar. 16; Gaz. vol. 212; p. 888.
- Bridle. H. Schmitz. No. 1,152,056; Aug. 31; Gaz. vol. 217; p. 1521.
- Bridle. J. D. Telford. No. 1,159,291; Nov. 2; Gaz. vol. 220; p. 306.
- Bridle-bit. J. C. Chenault. No. 1,124,108; Jan. 5; Gaz. vol. 210; p. 309.
- Bridle-bit. C. H. Falls. No. 1,140,971; May 25; Gaz. vol. 214; p. 1252.
- Bridle-bit. C. J. Harbec. No. 1,129,196; Feb. 23; Gaz. vol. 211; p. 1011.
- Bridle-bit. H. Schlueter. No. 1,130,638; Mar. 2; Gaz. vol. 212; p. 278.
- Bridle-bit curb. J. O. Fowler and G. W. Le Compte. No. 1,158,126; Oct. 26; Gaz. vol. 219; p. 1098.
- Bridle, Bitless. N. J. H. Duehr. No. 1,135,570; Apr. 13; Gaz. vol. 213; p. 570.
- Bridle-blind. O. Brockman. No. 1,134,816; Apr. 6; Gaz. vol. 213; p. 266.
- Bridle, Overdrive. B. F. Cayford. No. 1,157,207; Oct. 19; Gaz. vol. 219; p. 712.
- Bridle, Press-bit. J. Erickson. No. 1,133,115; Mar. 23; Gaz. vol. 212; p. 1279.
- Bridle-rod. C. M. Simpson. No. 1,127,927; Feb. 9; Gaz. vol. 211; p. 484.
- Bridle, Safety. A. W. Brown. No. 1,126,697; Feb. 2; Gaz. vol. 211; p. 10.
- Briquet. C. Schneider. No. 1,132,527; Mar. 16; Gaz. vol. 212; p. 1015.
- Briquet-cooling apparatus. P. Hein. No. 1,165,408; Dec. 28; Gaz. vol. 221; p. 1059.
- Briquet-machine. G. Komarek. No. 1,164,822; Dec. 21; Gaz. vol. 221; p. 816.
- Briquet-making machine. E. B. A. and R. A. Zwoyer. No. 1,152,468; Sept. 7; Gaz. vol. 218; p. 30.
- Briquets and other product composed of bonded divided material. D. H. Bibb. No. 1,158,365; Oct. 26; Gaz. vol. 219; p. 1181.
- Briquets, Binding means for. W. Schumacher. No. 1,146,455; July 13; Gaz. vol. 216; p. 540.
- Briquets from suitable briquet materials, Manufacture of. C. Fohr. No. 1,123,719; Jan. 5; Gaz. vol. 210; p. 177.
- Briquetting-machine. J. Iijima. No. 1,125,103; Jan. 19; Gaz. vol. 210; p. 747.
- Briquetting-press. G. J. Mashek. No. 1,164,657; Dec. 21; Gaz. vol. 221; p. 758.
- Briquetting-press. C. Schneider. No. 1,125,916; Jan. 19; Gaz. vol. 210; p. 1037.
- Broaching-machine. F. J. Lapointe. No. 1,164,004; Dec. 14; Gaz. vol. 221; p. 489.
- Broiler. E. Garraux. No. 1,133,850; Mar. 30; Gaz. vol. 212; p. 1578.
- Broiler. M. J. Green. No. 1,137,130; Apr. 27; Gaz. vol. 213; p. 1201.
- Broiler, Gas. W. J. Serrill. No. 1,140,338; May 18; Gaz. vol. 214; p. 993.
- Broiler-pan. W. J. Best and W. M. Mervin. No. 1,159,890; Nov. 9; Gaz. vol. 220; p. 553.
- Bromin, Making. E. O. Barstow. No. 1,141,921; June 8; Gaz. vol. 215; p. 330.
- Bromin, Making. E. O. Barstow. No. 1,141,922; June 8; Gaz. vol. 215; p. 331.
- Bronzing and like machine. M. Smith. No. 1,136,623; Apr. 20; Gaz. vol. 213; p. 983.
- Bronzing-machine. G. J. Hafner. No. 1,135,788; Apr. 13; Gaz. vol. 213; p. 646.
- Bronzing-machine. B. H. Jones. No. 1,134,203; Apr. 6; Gaz. vol. 213; p. 44.
- Bronzing-machine. M. Smith. No. 1,157,434; Oct. 19; Gaz. vol. 219; p. 795.
- Bronzing or metal-surfacing machine. E. Weingartner and W. Friess. No. 1,140,642; May 25; Gaz. vol. 214; p. 1136.
- Brooches, breastpins, &c., Safety-catch for. H. Hills. No. 1,124,899; Jan. 12; Gaz. vol. 210; p. 640.
- Brooder. J. F. Cary. No. 1,149,808; Aug. 10; Gaz. vol. 217; p. 575.
- Brooder. P. Daniell. No. 1,154,488; Sept. 21; Gaz. vol. 218; p. 817.
- Brooder. J. T. Ferres. No. 1,152,619; Sept. 7; Gaz. vol. 218; p. 87.
- Brooder. J. H. Lehmann. No. 1,129,806; Feb. 23; Gaz. vol. 211; p. 1220.
- Brooder. J. F. MacKay. No. 1,161,495; Nov. 23; Gaz. vol. 220; p. 1220.
- Brooder. J. F. MacKay. No. 1,163,936; Dec. 14; Gaz. vol. 221; p. 466.
- Brooder. P. S. Martin. No. 1,160,186; Nov. 16; Gaz. vol. 220; p. 710.
- Brooder. H. M. Opseth. No. 1,139,459; May 11; Gaz. vol. 214; p. 649.
- Brooder. H. E. Ringle. No. 1,134,229; Apr. 6; Gaz. vol. 213; p. 54.
- Brooder. R. R. Root. No. 1,138,508; May 4; Gaz. vol. 214; p. 275.
- Brooder. E. Rowe. No. 1,166,262; Dec. 28; Gaz. vol. 221; p. 1863.

Alphabetical list of inventions—Continued.

- Brooder. O. A. Schramm. No. 1,138,798; May 11; Gaz. vol. 214; p. 417.
- Brooder. J. T. Showalter. No. 1,123,811; Jan. 5; Gaz. vol. 210; p. 209.
- Brooder. E. Smith. No. 1,149,225; Aug. 10; Gaz. vol. 217; p. 365.
- Brooder. E. Taylor. No. 1,141,853; June 1; Gaz. vol. 215; p. 266.
- Brooder. F. L. Westcott. No. 1,135,477; Apr. 13; Gaz. vol. 213; p. 536.
- Brooder, Chicken-. C. S. Bordner. No. 1,152,700; Sept. 7; Gaz. vol. 218; p. 118.
- Brooder, Chicken-. E. Irwin. No. 1,165,509; Dec. 28; Gaz. vol. 221; p. 1093.
- Brooder, Chicken-. J. C. Webb. No. 1,146,603; July 13; Gaz. vol. 216; p. 592.
- Brooder, Fireless. A. B. Bond. No. 1,149,019; Aug. 3; Gaz. vol. 217; p. 189.
- Brooder-heater. H. A. George. No. 1,132,005; Mar. 16; Gaz. vol. 212; p. 824.
- Brooder-heater. C. V. Hill. No. 1,152,732; Sept. 7; Gaz. vol. 218; p. 129.
- Brooder-heater. C. V. Hill. No. 1,161,672; Nov. 23; Gaz. vol. 220; p. 1280.
- Brooders and incubators, Hot-water heater for. J. F. MacKay. No. 1,161,494; Nov. 23; Gaz. vol. 220; p. 1219.
- Brooders, Drinking attachment for. C. W. Smith. No. 1,159,540; Nov. 9; Gaz. vol. 220; p. 426.
- Brooders, Heat-regulator for. C. V. Hill. No. 1,152,814; Sept. 7; Gaz. vol. 218; p. 160.
- Broom. L. Blackard. No. 1,157,074; Oct. 19; Gaz. vol. 219; p. 666.
- Broom. S. F. Frazier. No. 1,164,801; Dec. 21; Gaz. vol. 221; p. 808.
- Broom. H. T. Gardner. No. 1,152,167; Aug. 31; Gaz. vol. 217; p. 1559.
- Broom. L. F. S. Hack. No. 1,161,308; Nov. 23; Gaz. vol. 220; p. 1154.
- Broom. R. A. Houston. No. 1,157,108; Oct. 19; Gaz. vol. 219; p. 677.
- Broom. H. W. Judevine. No. 1,133,035; Mar. 23; Gaz. vol. 212; p. 1251.
- Broom. H. M. Marsh. No. 1,138,303; May 4; Gaz. vol. 214; p. 203.
- Broom. W. P. Newell. No. 1,153,104; Sept. 7; Gaz. vol. 218; p. 262.
- Broom. H. Noppe and R. Ike. No. 1,144,309; June 22; Gaz. vol. 215; p. 1229.
- Broom. F. W. Pendergast. No. 1,139,716; May 18; Gaz. vol. 214; p. 776.
- Broom. L. W. Stanley. No. 1,140,543; May 25; Gaz. vol. 214; p. 1103.
- Broom and tool holder. M. Minnich. No. 1,156,168; Oct. 12; Gaz. vol. 219; p. 319.
- Broom and towel holder. G. W. Halley. No. 1,158,490; Nov. 2; Gaz. vol. 220; p. 27.
- Broom attachment. E. G. Skroder. No. 1,140,490; May 25; Gaz. vol. 214; p. 1084.
- Broom-handing plate. O. M. Irvine. No. 1,125,689; Jan. 19; Gaz. vol. 210; p. 958.
- Broom-brace. L. A. and A. A. Chmara. No. 1,164,924; Dec. 21; Gaz. vol. 221; p. 851.
- Broom-bridle. L. J. Kopischke. No. 1,154,781; Sept. 28; Gaz. vol. 218; p. 947.
- Broom-bridle. R. W. Morgan. No. 1,139,701; May 18; Gaz. vol. 214; p. 771.
- Broom-bridle holder. A. C. Althouse. No. 1,146,681; July 13; Gaz. vol. 216; p. 618.
- Broom-corn seeding, booting, and cleaning machine. G. H. Pallady. No. 1,149,281; Aug. 10; Gaz. vol. 217; p. 386.
- Broom-cover. M. Miller. No. 1,138,305; May 4; Gaz. vol. 214; p. 204.
- Broom-guard. S. G. Wilson. No. 1,139,320; May 11; Gaz. vol. 214; p. 597.
- Broom-handle, Detachable. J. Demjén. No. 1,149,429; Aug. 10; Gaz. vol. 217; p. 439.
- Broom-head. G. T. Cook. No. 1,138,934; May 11; Gaz. vol. 214; p. 464.
- Broom-head. E. Norbo. No. 1,124,507; Jan. 12; Gaz. vol. 210; p. 500.
- Broom-holder. C. A. Best. No. 1,134,813; Apr. 6; Gaz. vol. 213; p. 265.
- Broom-holder. A. L. Tiffany. No. 1,162,891; Dec. 7; Gaz. vol. 221; p. 55.
- Broom-machine. F. W. Reese. No. 1,130,765; Mar. 9; Gaz. vol. 212; p. 356.
- Broom or brush. N. S. Airhart and E. H. Gold. No. 1,131,890; Mar. 16; Gaz. vol. 212; p. 782.
- Broom press, Metal-case. G. Lemaux. No. 1,151,480; Aug. 24; Gaz. vol. 217; p. 1273.
- Broom-protecting jacket. A. E. Dolan. No. 1,125,981; Jan. 26; Gaz. vol. 210; p. 1094.
- Broom-protector. W. H. Fitz Gerald. No. 1,163,747; Dec. 14; Gaz. vol. 221; p. 401.
- Broom-protector. J. Rabasa. No. 1,134,906; Apr. 6; Gaz. vol. 213; p. 293.
- Broom, Push-. F. R. Hipkin. No. 1,134,076; Mar. 30; Gaz. vol. 212; p. 1651.
- Broom rack and holder. F. F. Ward. No. 1,140,422; May 25; Gaz. vol. 214; p. 1058.
- Brooms and the like, Attachment for the handles of. A. C. Obl. No. 1,160,440; Nov. 16; Gaz. vol. 220; p. 797.
- Brush. T. F. Barry. No. 1,148,565; Aug. 3; Gaz. vol. 217; p. 30.
- Brush. T. F. Barry. No. 1,148,566; Aug. 3; Gaz. vol. 217; p. 30.
- Brush. J. W. Bradshaw. No. 1,160,370; Nov. 16; Gaz. vol. 220; p. 773.
- Brush. B. W. Corley. No. 1,130,574; Mar. 2; Gaz. vol. 212; p. 258.
- Brush. E. L. H. Cosby. No. 1,125,068; Jan. 19; Gaz. vol. 210; p. 735.
- Brush. J. P. and G. J. Cummings. No. 1,127,195; Feb. 2; Gaz. vol. 211; p. 187.
- Brush. A. Du Puy. No. 1,128,667; Feb. 16; Gaz. vol. 211; p. 789.
- Brush. C. A. Fogarty. No. 1,138,466; May 4; Gaz. vol. 214; p. 262.
- Brush. J. A. Fritsch. No. 1,130,673; Mar. 2; Gaz. vol. 212; p. 291.
- Brush. J. D. Garvey. No. 1,144,355; June 29; Gaz. vol. 215; p. 1273.
- Brush. R. Haldenwang, Jr. No. 1,139,517; May 18; Gaz. vol. 214; p. 705.
- Brush. J. A. Houser. No. 1,165,259; Dec. 21; Gaz. vol. 221; p. 969.
- Brush. C. E. Jarvis. No. 1,152,180; Aug. 31; Gaz. vol. 217; p. 1563.
- Brush. H. Jeanne. No. 1,137,326; Apr. 27; Gaz. vol. 213; p. 1272.
- Brush. M. M. Lahue. No. 1,133,590; Apr. 13; Gaz. vol. 213; p. 577.
- Brush. A. Lightfoot. No. 1,131,068; Mar. 9; Gaz. vol. 212; p. 460.
- Brush. J. Speese. No. 1,130,442; Mar. 2; Gaz. vol. 212; p. 210.
- Brush. F. H. Sterling. No. 1,136,495; Apr. 20; Gaz. vol. 213; p. 938.
- Brush. W. F. Wolhaupter. No. 1,161,179; Nov. 23; Gaz. vol. 220; p. 1107.
- Brush, Air-. J. A. Paasche. No. 1,125,875; Jan. 19; Gaz. vol. 210; p. 1022.
- Brush and comb, Combination. G. H. Dunham. No. 1,127,746; Feb. 9; Gaz. vol. 211; p. 419.
- Brush and comb, Combined. W. E. Woodall. No. 1,135,645; Apr. 13; Gaz. vol. 213; p. 597.
- Brush and mop, Fountain. B. W. Glover. No. 1,159,582; Nov. 9; Gaz. vol. 220; p. 442.
- Brush attachment. W. A. Miller. No. 1,162,635; Nov. 30; Gaz. vol. 220; p. 1657.
- Brush, Automobile. O. Neufeld. No. 1,151,813; Aug. 31; Gaz. vol. 217; p. 1437.
- Brush, Automobile washing-. R. J. Montgomery. No. 1,133,390; Mar. 30; Gaz. vol. 212; p. 1412.
- Brush-back-boring machine. W. G. Liebig. No. 1,125,351; Jan. 19; Gaz. vol. 210; p. 837.
- Brush, Blacking-. T. Landis. No. 1,146,718; July 13; Gaz. vol. 216; p. 629.
- Brush, Bottle-washer. C. K. Volckening. No. 1,160,551; Nov. 16; Gaz. vol. 220; p. 838.
- Brush-bridle. G. C. Bemis. No. 1,152,474; Sept. 7; Gaz. vol. 218; p. 33.
- Brush, Cleaning-. G. C. Kimes. No. 1,153,118; Sept. 7; Gaz. vol. 218; p. 266.
- Brush-cleaning apparatus, Hair-. H. T. F. Gast. No. 1,152,168; Aug. 31; Gaz. vol. 217; p. 1559.
- Brush-cleaning machine. H. M. Schwartz. No. 1,125,188; Jan. 19; Gaz. vol. 210; p. 779.
- Brush, Combination-. E. W. Grove and G. P. Crumbaugh. No. 1,142,698; June 8; Gaz. vol. 215; p. 601.
- Brush, Electric-meter. R. S. White. No. 1,155,021; Sept. 28; Gaz. vol. 218; p. 1027.
- Brush, Eraser. F. D. Roberts. No. 1,161,250; Nov. 23; Gaz. vol. 220; p. 1134.
- Brush, Extensible radiator. S. Parker. No. 1,138,244; May 4; Gaz. vol. 214; p. 182.
- Brush, Fly-. A. F. Goddard. No. 1,151,174; Aug. 24; Gaz. vol. 217; p. 1172.
- Brush, Folding tooth-. L. Kalina. No. 1,134,459; Apr. 6; Gaz. vol. 213; p. 137.
- Brush for bolting-machines. N. M. Butts and C. L. Haworth. No. 1,135,762; Apr. 13; Gaz. vol. 213; p. 637.
- Brush for linotype-pots. L. Ewald. No. 1,133,716; Mar. 30; Gaz. vol. 212; p. 1530.
- Brush, Fountain-. H. W. Hicks. No. 1,151,100; Aug. 24; Gaz. vol. 217; p. 1146.
- Brush, Fountain-. B. D. Knickerbocker. No. 1,159,503; Nov. 9; Gaz. vol. 220; p. 413.
- Brush, Fountain-. W. Matthews. No. 1,138,772; May 11; Gaz. vol. 214; p. 407.
- Brush, Fountain-. A. J. Ricard. No. 1,165,208; Dec. 21; Gaz. vol. 221; p. 952.
- Brush, Fountain-. G. Riddiford. No. 1,142,911; June 15; Gaz. vol. 215; p. 715.
- Brush, Fountain-. J. Speese. No. 1,127,817; Feb. 9; Gaz. vol. 211; p. 446.
- Brush, Fountain-. J. Speese. No. 1,131,012; Mar. 9; Gaz. vol. 212; p. 440.
- Brush, Fountain-. W. H. Stoehr. No. 1,135,739; Apr. 13; Gaz. vol. 213; p. 630.

Alphabetical list of inventions—Continued.

- Brush, Fountain shaving. O. B. Block. No. 1,126,693; Feb. 2; Gaz. vol. 211; p. 9.
- Brush, Fountain shaving. H. A. Heath and J. E. Gray. No. 1,141,392; June 1; Gaz. vol. 215; p. 110.
- Brush, Fountain tooth. W. O. Campbell. No. 1,163,319; Dec. 7; Gaz. vol. 221; p. 204.
- Brush-handle, Detachable and adjustable. G. Rohrbach. No. 1,158,856; Nov. 2; Gaz. vol. 220; p. 158.
- Brush handle, Fountain. S. Kosinski. No. 1,142,439; June 8; Gaz. vol. 215; p. 514.
- Brush-head. J. Simpson and A. A. Luke. No. 1,165,292; Dec. 23; Gaz. vol. 221; p. 980.
- Brush-holder. C. O. Bergstrom. No. 1,150,486; Aug. 17; Gaz. vol. 217; p. 878.
- Brush-holder. L. Lord. No. 1,161,397; Nov. 23; Gaz. vol. 220; p. 1186.
- Brush-holder. E. Mattman. No. 1,126,546; Jan. 26; Gaz. vol. 210; p. 1299.
- Brush-holder. F. C. Stiefel. No. 1,143,090; June 15; Gaz. vol. 215; p. 779.
- Brush-holder. M. Walker. No. 1,166,161; Dec. 28; Gaz. vol. 221; p. 1325.
- Brush holder, Paint. B. P. Arnest. No. 1,125,931; Jan. 26; Gaz. vol. 210; p. 1075.
- Brush-holder, Reversible. G. L. Halvardson. No. 1,155,921; Oct. 5; Gaz. vol. 219; p. 208.
- Brush holder, Scrub. A. B. Boughan. No. 1,132,511; Mar. 16; Gaz. vol. 212; p. 1009.
- Brush holder, Shaving. A. L. Holtzman. No. 1,128,984; Feb. 16; Gaz. vol. 211; p. 902.
- Brush holder, Tooth. W. Miller. No. 1,139,134; May 11; Gaz. vol. 214; p. 536.
- Brush-holding device. J. H. Thompson. No. 1,153,730; Sept. 14; Gaz. vol. 218; p. 522.
- Brush-machine. H. M. Schwartz. No. 1,125,187; Jan. 19; Gaz. vol. 210; p. 778.
- Brush, Magazine. C. W. Jones. No. 1,134,865; Apr. 6; Gaz. vol. 213; p. 281.
- Brush-making. A. E. Silander. No. 1,137,915; May 4; Gaz. vol. 214; p. 67.
- Brush-making machine. C. Jobst. No. 1,144,711; June 29; Gaz. vol. 215; p. 1394.
- Brush-making machine. C. Jobst. No. 1,144,712; June 29; Gaz. vol. 215; p. 1394.
- Brush-making machine. F. E. Kress. No. 1,141,398; June 1; Gaz. vol. 215; p. 112.
- Brush-making machine. W. G. Liebig. No. 1,125,136; Jan. 19; Gaz. vol. 210; p. 759.
- Brush-making machine. A. W. Morey. No. 1,162,639; Nov. 30; Gaz. vol. 220; p. 1658.
- Brush-making machine. H. M. Schwartz. No. 1,125,189; Jan. 19; Gaz. vol. 210; p. 779.
- Brush-making machinery. W. G. Liebig. No. 1,161,394; Nov. 23; Gaz. vol. 220; p. 1185.
- Brush-making machinery. S. G. Roseman. No. 1,123,596; Jan. 5; Gaz. vol. 210; p. 136.
- Brush or mirror holder or back. S. G. Wilson. No. 1,134,712; Apr. 6; Gaz. vol. 213; p. 230.
- Brush, Paint. F. H. Osborn. No. 1,130,759; Mar. 9; Gaz. vol. 212; p. 355.
- Brush, Paper-hanger's. E. J. Brophy. No. 1,124,283; Jan. 12; Gaz. vol. 210; p. 421.
- Brush, Pictorial. J. Hetherington and C. E. Chapin. No. 1,155,063; Sept. 28; Gaz. vol. 218; p. 1043.
- Brush receptacle, Antiseptic tooth. R. M. Withycombe. No. 1,138,523; May 4; Gaz. vol. 214; p. 280.
- Brush, Rotary. E. N. Gaudron. No. 1,123,516; Jan. 5; Gaz. vol. 210; p. 109.
- Brush, Rotary. H. Nielson. No. 1,125,153; Jan. 19; Gaz. vol. 210; p. 766.
- Brush, Rotary fly. A. F. Goddard. No. 1,137,602; Apr. 27; Gaz. vol. 213; p. 1368.
- Brush, Rotary polishing. A. L. Radlein and G. Selander. No. 1,141,143; June 1; Gaz. vol. 215; p. 18.
- Brush, Rotary tooth. H. Allan. No. 1,133,907; Mar. 30; Gaz. vol. 212; p. 1596.
- Brush, Rotatable circular. E. Van Devoorde. No. 1,153,738; Sept. 14; Gaz. vol. 218; p. 525.
- Brush, Sanitary shaving. P. J. De Leeuw. No. 1,165,394; Dec. 28; Gaz. vol. 221; p. 1054.
- Brush, Scrubbing. A. B. Williams. No. 1,160,482; Nov. 16; Gaz. vol. 220; p. 813.
- Brush, Shaving. S. E. Guinn. No. 1,164,641; Dec. 21; Gaz. vol. 221; p. 752.
- Brush, Shaving. R. E. Reames. No. 1,155,096; Sept. 28; Gaz. vol. 218; p. 1056.
- Brush, Shaving. A. W. Skowbo. No. 1,143,451; June 15; Gaz. vol. 215; p. 907.
- Brush, Shaving. T. R. Wirsing. No. 1,155,859; Oct. 5; Gaz. vol. 219; p. 187.
- Brush, Shuttle. J. H. Hale. No. 1,166,204; Dec. 28; Gaz. vol. 221; p. 1341.
- Brush, Sterilized. F. J. Wild, Jr., and A. J. Gettinger. No. 1,142,386; June 8; Gaz. vol. 215; p. 494.
- Brush, Stipple. H. R. Kindt. No. 1,154,928; Sept. 28; Gaz. vol. 218; p. 996.
- Brush, Toilet. W. H. Bridges. No. 1,141,662; June 1; Gaz. vol. 215; p. 205.
- Brush, Tooth. A. C. Booth. No. 1,155,878; Oct. 5; Gaz. vol. 219; p. 193.
- Brush, Tooth. C. E. Carroll. No. 1,133,930; Mar. 30; Gaz. vol. 212; p. 1603.
- Brush, Tooth. R. A. Darling. No. 1,164,597; Dec. 14; Gaz. vol. 221; p. 695.
- Brush, Tooth. J. F. Fouyer. No. 1,132,326; Mar. 16; Gaz. vol. 212; p. 942.
- Brush, Tooth. E. S. Goldy. No. 1,134,450; Apr. 6; Gaz. vol. 213; p. 134.
- Brush, Tooth. E. Himmel. No. 1,125,532; Jan. 19; Gaz. vol. 210; p. 901.
- Brush, Tooth. J. P. Hoffman. No. 1,128,139; Feb. 9; Gaz. vol. 211; p. 558.
- Brush, Tooth. E. C. Hubbel. No. 1,138,568; May 4; Gaz. vol. 214; p. 295.
- Brush, Tooth. C. A. Jackson. No. 1,142,566; June 8; Gaz. vol. 215; p. 558.
- Brush, Tooth. H. Lipari. No. 1,140,690; May 25; Gaz. vol. 214; p. 1151.
- Brush, Tooth. R. L. Long. No. 1,153,801; Sept. 14; Gaz. vol. 218; p. 546.
- Brush, Tooth. E. Metivier. No. 1,137,651; Apr. 27; Gaz. vol. 213; p. 1384.
- Brush, Tooth. C. V. Nellany. No. 1,142,356; June 8; Gaz. vol. 215; p. 483.
- Brush, Tooth. H. H. Phillips. No. 1,131,863; Mar. 16; Gaz. vol. 212; p. 774.
- Brush, Tooth. J. Simmons. No. 1,137,916; May 4; Gaz. vol. 214; p. 67.
- Brush, Tooth. H. M. Smith. No. 1,166,269; Dec. 28; Gaz. vol. 221; p. 1365.
- Brushes and analogous toilet articles, Casing for. A. H. and D. A. Wolfe. No. 1,166,296; Dec. 28; Gaz. vol. 221; p. 1374.
- Brushes and analogous toilet articles, Casing for. A. H. and D. A. Wolfe. No. 1,166,297; Dec. 28; Gaz. vol. 221; p. 1374.
- Brushes, Device for connecting handles to. W. Vernon. No. 1,166,280; Dec. 28; Gaz. vol. 221; p. 1369.
- Brushes, Drip-cup for paint. C. R. Day. No. 1,161,378; Nov. 23; Gaz. vol. 220; p. 1180.
- Brusher and oiler, Floor. J. E. Reller. No. 1,135,616; Apr. 13; Gaz. vol. 213; p. 587.
- Brushing-machine. B. Lacroix. No. 1,137,009; Apr. 27; Gaz. vol. 213; p. 1157.
- Brushing machine, Shoe. J. Walsh. No. 1,127,834; Feb. 9; Gaz. vol. 211; p. 452.
- Bubble-blower. F. P. Blair. No. 1,124,204; Jan. 5; Gaz. vol. 210; p. 343.
- Bubbling fountain. L. N. Bryan. No. 1,158,104; Oct. 26; Gaz. vol. 219; p. 1090.
- Bucket. H. S. Atkinson. No. 1,128,398; Feb. 16; Gaz. vol. 211; p. 696.
- Bucket. H. S. Atkinson. No. 1,138,614; May 11; Gaz. vol. 214; p. 349.
- Bucket and hoisting mechanism therefor, Dumping. F. E. Arndt. No. 1,166,035; Dec. 28; Gaz. vol. 221; p. 1277.
- Bucket and pail cover. B. A. and A. H. Unversaw. No. 1,123,432; Jan. 5; Gaz. vol. 210; p. 81.
- Bucket apparatus, Traveling. J. C. French. No. 1,161,302; Nov. 23; Gaz. vol. 220; p. 1152.
- Bucket, Automatic tipping. W. J. S. Perkins. No. 1,152,342; Aug. 31; Gaz. vol. 217; p. 1620.
- Bucket, Bait. C. W. Patterson. No. 1,135,841; Apr. 13; Gaz. vol. 213; p. 666.
- Bucket, Bait. W. A. Rowe. No. 1,127,522; Feb. 9; Gaz. vol. 211; p. 341.
- Bucket buffer, Clam-shell-dredger. P. Peterson. No. 1,153,950; Sept. 21; Gaz. vol. 218; p. 633.
- Bucket, Conveyor. A. E. Elliott. No. 1,153,375; Sept. 14; Gaz. vol. 218; p. 396.
- Bucket, Drag-line. H. T. Dunbar. No. 1,132,078; Mar. 16; Gaz. vol. 212; p. 850.
- Bucket, Drag-line. H. T. Dunbar. No. 1,132,917; Mar. 23; Gaz. vol. 212; p. 1205.
- Bucket, Dumping. G. L. Stuebner. No. 1,131,748; Mar. 16; Gaz. vol. 212; p. 730.
- Bucket, Excavating. J. L. Potter. No. 1,147,432; July 20; Gaz. vol. 216; p. 901.
- Bucket, Excavator. W. N. Springer. No. 1,136,844; Apr. 20; Gaz. vol. 213; p. 1061.
- Bucket, Fish-bait. C. F. Long. No. 1,159,399; Nov. 9; Gaz. vol. 220; p. 377.
- Bucket, Fish-bait. C. F. Long. No. 1,163,836; Dec. 14; Gaz. vol. 221; p. 432.
- Bucket, Foldable and collapsible. W. H. Ross. No. 1,152,846; Sept. 7; Gaz. vol. 218; p. 172.
- Bucket, Fruit. W. G. Palmer. No. 1,135,944; Apr. 13; Gaz. vol. 213; p. 700.
- Bucket, Grab. H. P. Andresen. No. 1,134,987; Apr. 13; Gaz. vol. 213; p. 368.
- Bucket, Grab. C. G. Larson. No. 1,136,428; Apr. 20; Gaz. vol. 213; p. 914.
- Bucket, Grab. E. F. Oyster. No. 1,130,428; Mar. 2; Gaz. vol. 212; p. 205.
- Bucket, Hoisting. G. E. Cook. No. 1,166,400; Dec. 28; Gaz. vol. 221; p. 1412.
- Bucket, Hoisting. D. B. Youngblood. No. 1,128,397; Feb. 16; Gaz. vol. 211; p. 695.
- Bucket, Hoisting and dumping. F. E. Arndt. No. 1,152,472; Sept. 7; Gaz. vol. 218; p. 32.
- Bucket, Well. T. R. Spears. No. 1,123,944; Jan. 5; Gaz. vol. 210; p. 254.

Alphabetical list of inventions—Continued.

- Bucket-wheels, Manufacturing. J. E. Kilker and C. W. Dake. No. 1,141,190; June 1; Gaz. vol. 215; p. 35.
- Buckets, Device for operating dumping. A. Dahl. No. 1,145,564; July 6; Gaz. vol. 216; p. 205.
- Buckets, Operating means for dredging. A. N. Doud. No. 1,164,076; Dec. 14; Gaz. vol. 221; p. 516.
- Buckets, Protecting-plate for wooden. G. L. Pumphrey. No. 1,151,284; Aug. 24; Gaz. vol. 217; p. 1209.
- Buckle. O. H. Budge. No. 1,127,727; Feb. 9; Gaz. vol. 211; p. 412.
- Buckle. J. Chary. No. 1,138,539; May 4; Gaz. vol. 214; p. 286.
- Buckle. J. Chary. No. 1,138,540; May 4; Gaz. vol. 214; p. 286.
- Buckle. C. S. Comstock, Sr. No. 1,126,404; Jan. 26; Gaz. vol. 210; p. 1246.
- Buckle. O. F. Day. No. 1,136,213; Apr. 20; Gaz. vol. 213; p. 836.
- Buckle. H. Herz. No. 1,160,605; Nov. 16; Gaz. vol. 220; p. 657.
- Buckle. E. N. Humphrey. No. 1,161,804; Nov. 23; Gaz. vol. 220; p. 1326.
- Buckle. C. G. Johnson. No. 1,140,040; May 18; Gaz. vol. 214; p. 890.
- Buckle. S. B. Kahn. No. 1,127,895; Feb. 9; Gaz. vol. 211; p. 474.
- Buckle. W. Kops. No. 1,139,301; May 11; Gaz. vol. 213; p. 592.
- Buckle. W. Kops. No. 1,148,972; Aug. 3; Gaz. vol. 217; p. 173.
- Buckle. W. Kops and H. Giles. No. 1,142,523; June 8; Gaz. vol. 215; p. 543.
- Buckle. E. Langenbach. No. 1,145,151; July 6; Gaz. vol. 216; p. 62.
- Buckle. F. L. Langhammer. No. 1,147,955; July 27; Gaz. vol. 216; p. 1110.
- Buckle. H. Mortara. No. 1,153,100; Sept. 7; Gaz. vol. 218; p. 261.
- Buckle. A. J. Northey and F. A. McGee. No. 1,161,144; Nov. 23; Gaz. vol. 220; p. 1093.
- Buckle. E. Nystrom. No. 1,126,841; Feb. 2; Gaz. vol. 211; p. 63.
- Buckle. E. W. Padelford. No. 1,159,328; Nov. 2; Gaz. vol. 220; p. 319.
- Buckle. J. W. Parmenter. No. 1,133,396; Mar. 30; Gaz. vol. 212; p. 1414.
- Buckle. F. C. Rehm. No. 1,142,842; June 15; Gaz. vol. 215; p. 690.
- Buckle. J. C. Roach. No. 1,145,797; July 6; Gaz. vol. 216; p. 288.
- Buckle. A. T. Van Alstyn. No. 1,136,451; Apr. 20; Gaz. vol. 213; p. 922.
- Buckle. F. E. Vandercook. No. 1,145,448; July 6; Gaz. vol. 216; p. 166.
- Buckle. D. H. Warner. No. 1,132,051; Mar. 16; Gaz. vol. 212; p. 841.
- Buckle and loop. A. A. Colledge. No. 1,144,984; June 29; Gaz. vol. 215; p. 1487.
- Buckle, Arctic. W. C. Watkins. No. 1,148,132; July 27; Gaz. vol. 216; p. 1175.
- Buckle attachment. E. N. Humphrey. No. 1,125,023; Jan. 12; Gaz. vol. 210; p. 684.
- Buckle attachment. S. S. Stiles. No. 1,123,947; Jan. 5; Gaz. vol. 210; p. 255.
- Buckle, Bale-tie. R. L. Horsley. No. 1,124,227; Jan. 5; Gaz. vol. 210; p. 352.
- Buckle, Belt. E. N. Humphrey. No. 1,139,036; May 11; Gaz. vol. 214; p. 502.
- Buckle, Belt. G. H. Line. No. 1,134,686; Apr. 6; Gaz. vol. 213; p. 220.
- Buckle, Belt. G. E. Prentice. No. 1,131,550; Mar. 9; Gaz. vol. 212; p. 626.
- Buckle, Chain. L. L. Conkey. No. 1,134,994; Apr. 13; Gaz. vol. 213; p. 370.
- Buckle, Clasp. W. P. Bartel. No. 1,133,456; Mar. 30; Gaz. vol. 212; p. 1435.
- Buckle for cotton-ties, &c. L. W. Swafford. No. 1,163,870; Dec. 14; Gaz. vol. 221; p. 443.
- Buckle, Friction. J. J. Buchanan and J. Maltby. No. 1,165,930; Dec. 28; Gaz. vol. 221; p. 1244.
- Buckle, Harness. E. S. Nevills. No. 1,147,338; July 20; Gaz. vol. 216; p. 866.
- Buckle, Harness. P. Rasmussen. No. 1,148,988; Aug. 3; Gaz. vol. 217; p. 178.
- Buckle, Harness. J. P. Sawatzky and A. B. Gerbrand. No. 1,126,876; Feb. 2; Gaz. vol. 211; p. 75.
- Buckle, Harness. W. R. Shedrick. No. 1,151,833; Aug. 31; Gaz. vol. 217; p. 1444.
- Buckle, Harness. J. F. Smieja. No. 1,141,842; June 1; Gaz. vol. 215; p. 263.
- Buckle, Initial. L. Sanders. No. 1,134,016; Mar. 30; Gaz. vol. 212; p. 1629.
- Buckle, Prong-attached sliding-tongue. H. Kerngood and I. Blum. No. 1,132,856; Mar. 23; Gaz. vol. 212; p. 1185.
- Buckle, Shoe. W. S. Bechtold. No. 1,124,585; Jan. 12; Gaz. vol. 210; p. 529.
- Buckle, Side-strap. E. Hartmann. No. 1,126,205; Jan. 26; Gaz. vol. 210; p. 1176.
- Buckle-slide. C. S. Comstock, Sr. No. 1,150,850; Aug. 24; Gaz. vol. 217; p. 1062.
- Buckle, Suspender. J. H. Pilkington. No. 1,136,610; Apr. 20; Gaz. vol. 213; p. 978.
- Buckle with releasing-gear. E. Moricet. No. 1,158,827; Nov. 2; Gaz. vol. 220; p. 148.
- Buffer. R. P. Heron. No. 1,137,138; Apr. 27; Gaz. vol. 213; p. 1203.
- Buffer. H. C. Rogers. No. 1,163,463; Dec. 7; Gaz. vol. 221; p. 255.
- Buffer. A. R. White. No. 1,158,350; Oct. 26; Gaz. vol. 219; p. 1175.
- Buffer-coupling, Central. K. Künzi. No. 1,124,032; Jan. 5; Gaz. vol. 210; p. 283.
- Buffer, Finger-nail. L. Macomber. No. 1,152,330; Aug. 31; Gaz. vol. 217; p. 1615.
- Buffer-plate-supporting means. J. F. O'Connor. No. 1,128,355; Feb. 16; Gaz. vol. 211; p. 682.
- Buffer, Reversible. H. Mendelsohn. No. 1,134,088; Mar. 30; Gaz. vol. 212; p. 1656.
- Buffer-tube. G. B. Myers. No. 1,163,103; Dec. 7; Gaz. vol. 221; p. 128.
- Buffing and polishing and removing scratches, Machine for. E. Porter. No. 1,161,412; Nov. 23; Gaz. vol. 220; p. 1192.
- Buffing-machine. W. A. Reed and J. Foley. No. 1,157,725; Oct. 26; Gaz. vol. 219; p. 958.
- Buffing-machine. F. W. Richards. No. 1,139,371; May 11; Gaz. vol. 214; p. 617.
- Buffing mechanism. J. F. O'Connor. No. 1,139,709; May 18; Gaz. vol. 214; p. 773.
- Buffer-server. A. M. Blackwell. No. 1,151,923; Aug. 31; Gaz. vol. 217; p. 1474.
- Bug-eliminating machine. C. F. Bacon. No. 1,144,019; June 23; Gaz. vol. 215; p. 1126.
- Buggy-runner. W. P. Hossenberger. No. 1,159,643; Nov. 9; Gaz. vol. 220; p. 464.
- Buggy-top-bow protector. N. Frederick. No. 1,131,357; Mar. 9; Gaz. vol. 212; p. 559.
- Builder-motion. W. H. Goldsmith, Jr. No. 1,136,417; Apr. 20; Gaz. vol. 213; p. 910.
- Builder-motion. E. H. Kristek. No. 1,139,877; May 18; Gaz. vol. 214; p. 832.
- Building and analogous frames, Constructing. R. H. Robinson. No. 1,135,721; Apr. 13; Gaz. vol. 213; p. 624.
- Building apparatus. J. J. Dewey. No. 1,132,460; Mar. 16; Gaz. vol. 212; p. 990.
- Building-block. F. B. Fairbank. No. 1,153,900; Sept. 21; Gaz. vol. 218; p. 616.
- Building-block. W. F. Haskins. No. 1,150,363; Aug. 17; Gaz. vol. 217; p. 835.
- Building-block. E. T. Likes. No. 1,124,478; Jan. 12; Gaz. vol. 210; p. 490.
- Building-block. O. C. Schwarz. No. 1,131,740; Mar. 16; Gaz. vol. 212; p. 727.
- Building-block, Cement. F. E. Peters. No. 1,154,546; Sept. 21; Gaz. vol. 218; p. 836.
- Building-block construction. F. Gray. No. 1,147,015; July 20; Gaz. vol. 216; p. 754.
- Building-block for building-wall construction. J. J. Hinde. No. 1,142,518; June 8; Gaz. vol. 215; p. 541.
- Building-block for wall construction. R. C. D. Owen. No. 1,130,324; Mar. 2; Gaz. vol. 212; p. 167.
- Building-block pin, Child's. H. C. White. No. 1,142,471; June 8; Gaz. vol. 215; p. 525.
- Building-blocks, Binder for hollow-tile. H. H. Smith. (Reissue.) No. 1,398,0; Sept. 14; Gaz. vol. 218; p. 578.
- Building-blocks, Making. R. M. Jones. No. 1,162,172; Nov. 30; Gaz. vol. 220; p. 1502.
- Building, Collapsible. J. W. and A. R. Gallant. No. 1,143,697; June 22; Gaz. vol. 215; p. 1014.
- Building, Combination amusement and educational. J. C. Schleicher. No. 1,146,454; July 13; Gaz. vol. 216; p. 540.
- Building composition, Artificial. I. Ujházy. No. 1,141,591; June 1; Gaz. vol. 215; p. 180.
- Building construction. W. Doyle. No. 1,144,894; June 20; Gaz. vol. 215; p. 1458.
- Building construction. F. R. Hahn. No. 1,165,668; Dec. 28; Gaz. vol. 221; p. 1151.
- Building construction. C. B. Harp. No. 1,142,093; June 8; Gaz. vol. 215; p. 392.
- Building construction. J. H. Knox. No. 1,134,955; Apr. 6; Gaz. vol. 213; p. 311.
- Building construction. G. M. Marshall. No. 1,127,058; Feb. 2; Gaz. vol. 211; p. 139.
- Building construction. C. D. Page. No. 1,154,203; Sept. 21; Gaz. vol. 218; p. 718.
- Building construction. W. Rohm. No. 1,125,721; Jan. 19; Gaz. vol. 210; p. 970.
- Building construction. J. Stretch. No. 1,160,340; Nov. 16; Gaz. vol. 220; p. 763.
- Building construction. A. Treo. No. 1,137,297; Apr. 27; Gaz. vol. 213; p. 1262.
- Building construction, Metallic. J. R. Johnson. No. 1,159,039; Nov. 2; Gaz. vol. 220; p. 217.
- Building foundations and the like, Apparatus and method of. L. L. Brown. No. 1,159,171; Nov. 2; Gaz. vol. 220; p. 264.
- Building, Knockdown. C. D. Page. No. 1,154,204; Sept. 21; Gaz. vol. 218; p. 719.
- Building material. R. E. Booraem. No. 1,163,613; Dec. 7; Gaz. vol. 221; p. 308.

Alphabetical list of inventions—Continued.

- Building, Metallic. W. W. Taylor. No. 1,141,021; May 25; Gaz. vol. 214; p. 1267.
- Building, Metallic. W. W. Taylor. No. 1,155,969; Oct. 5; Gaz. vol. 219; p. 223.
- Building mold, Composition-. J. F. Webb and G. C. Crane. No. 1,126,323; Jan. 26; Gaz. vol. 210; p. 1219.
- Building parts, such as walls, pillars, and the like, Junction of reinforced. C. Werkenthin. No. 1,165,475; Dec. 28; Gaz. vol. 221; p. 1082.
- Building, Portable. O. W. Aagaard. No. 1,162,432; Nov. 30; Gaz. vol. 220; p. 1590.
- Building, Portable. C. I. Greer. No. 1,143,047; June 15; Gaz. vol. 215; p. 763.
- Building, Portable. J. Hagman. No. 1,160,882; Nov. 16; Gaz. vol. 220; p. 956.
- Building purposes, Stuccolike siding for. A. Applegate. No. 1,138,069; May 4; Gaz. vol. 214; p. 123.
- Building structure. P. Schmitz. No. 1,153,714; Sept. 14; Gaz. vol. 218; p. 517.
- Building structure, Ventilated. H. R. Straight. No. 1,154,219; Sept. 21; Gaz. vol. 218; p. 724.
- Building-tie. C. B. Harp. No. 1,146,251; July 13; Gaz. vol. 216; p. 467.
- Building-wood and for treating raw logs and trunks, Apparatus for smoothing. A. Svendsen. No. 1,139,383; May 11; Gaz. vol. 214; p. 621.
- Building, Wooden. B. S. Williams. No. 1,126,927; Feb. 2; Gaz. vol. 211; p. 92.
- Buildings against earthquakes, Device for protecting. L. Kohl. No. 1,158,932; Nov. 2; Gaz. vol. 220; p. 183.
- Buildings, Construction of. F. Burchartz. No. 1,149,180; Aug. 10; Gaz. vol. 217; p. 348.
- Buildings, Head-frame and haunch-reinforce for steel. C. H. Snyder. No. 1,128,912; Feb. 16; Gaz. vol. 211; p. 876.
- Buildings, Underpinning. J. B. Goldsborough. No. 1,129,192; Feb. 23; Gaz. vol. 211; p. 1009.
- Bulb-attaching means. T. A. De Vilbiss. No. 1,127,202; Feb. 2; Gaz. vol. 211; p. 190.
- Bulkhead. G. C. Bohn. No. 1,151,754; Aug. 31; Gaz. vol. 217; p. 1415.
- Bulkhead construction. J. R. Wemlinger. No. 1,137,938; May 4; Gaz. vol. 214; p. 75.
- Bulkhead-doors, Apparatus for operating. H. M. Gleason. No. 1,131,832; Mar. 16; Gaz. vol. 212; p. 763.
- Bulkhead, Elastic. W. Hovgaard. No. 1,164,814; Dec. 21; Gaz. vol. 221; p. 813.
- Bull-wheel. V. O. Zahniser. No. 1,143,012; June 15; Gaz. vol. 215; p. 751.
- Bull-wheel belt-lifter. E. Peterson. No. 1,133,180; Mar. 23; Gaz. vol. 212; p. 1302.
- Bullet. L. C. Booth. No. 1,124,279; Jan. 12; Gaz. vol. 210; p. 419.
- Bullet-deflector for cannons. F. B. Miezjewski. No. 1,151,116; Aug. 24; Gaz. vol. 217; p. 1151.
- Bullet, Expanding. M. L. Wood. No. 1,134,797; Apr. 6; Gaz. vol. 213; p. 261.
- Bullet feeding and swaging machine. C. H. A. F. L. Ross. No. 1,154,810; Sept. 28; Gaz. vol. 218; p. 956.
- Bullet, Mushroom-. R. G. Clyne. No. 1,135,357; Apr. 13; Gaz. vol. 213; p. 494.
- Bullet, Mushroom-. J. B. Duncan. No. 1,155,901; Oct. 5; Gaz. vol. 219; p. 201.
- Bullet or projectile for firearms. A. Dobregensky. No. 1,141,783; June 1; Gaz. vol. 215; p. 244.
- Bullets, Mushrooming. C. H. A. F. L. Ross. No. 1,141,212; June 1; Gaz. vol. 215; p. 44.
- Bullets or other articles of manufacture, Making. R. L. Wilcox and Z. P. Candee. No. 1,149,485; Aug. 10; Gaz. vol. 217; p. 458.
- Bulletin-board. A. S. Hickey. No. 1,128,249; Feb. 9; Gaz. vol. 211; p. 595.
- Bulletin-board, Interchangeable-letter. J. M. Schilling. No. 1,146,528; July 13; Gaz. vol. 216; p. 566.
- Bumper-beam step-bracket. F. J. Harrison and W. J. Knox. No. 1,135,522; Apr. 13; Gaz. vol. 213; p. 552.
- Bumping-post. W. M. Evans. No. 1,132,315; Mar. 16; Gaz. vol. 212; p. 939.
- Bun and bread molder and rounder. F. Streich. No. 1,152,348; Aug. 31; Gaz. vol. 217; p. 1622.
- Bunch-builder attachment. J. Lyle. No. 1,149,930; Aug. 10; Gaz. vol. 217; p. 620.
- Bundle-carrier. H. J. Case. No. 1,142,399; June 8; Gaz. vol. 215; p. 509.
- Bundle-tier. G. Seach. No. 1,135,853; Apr. 13; Gaz. vol. 213; p. 670.
- Bundle-tying device. S. C. Burlingame. No. 1,140,246; May 18; Gaz. vol. 214; p. 961.
- Bundling-machine. C. Thacker. No. 1,141,730; June 1; Gaz. vol. 215; p. 228.
- Bung. C. T. Childers. No. 1,127,961; Feb. 9; Gaz. vol. 211; p. 496.
- Bung. B. J. Schmelzer. No. 1,157,906; Oct. 26; Gaz. vol. 219; p. 1021.
- Bung bushing and closure for barrels. C. F. Terney. No. 1,129,832; Feb. 23; Gaz. vol. 211; p. 1229.
- Bung, Fermenting-. R. Memminger. No. 1,129,885; Mar. 2; Gaz. vol. 212; p. 18.
- Bung-key. B. Smith. No. 1,129,049; Feb. 16; Gaz. vol. 211; p. 925.
- Burg Safety-. W. H. McNutt. No. 1,142,902; June 15; Gaz. vol. 215; p. 712.
- Bunsen burner. L. J. Strause and O. Spahr. No. 1,157,734; Oct. 26; Gaz. vol. 219; p. 961.
- Buoy, Bell-. R. L. Williams. No. 1,164,772; Dec. 21; Gaz. vol. 221; p. 798.
- Buoy for submarine or submergible boats, Life-. H. Greishaber. No. 1,137,131; Apr. 27; Gaz. vol. 213; p. 1202.
- Buoy, Life-. W. Heinrich and F. Janssen. No. 1,165,503; Dec. 28; Gaz. vol. 221; p. 1091.
- Buoy, Log-. J. H. Johnson. No. 1,139,123; May 11; Gaz. vol. 214; p. 532.
- Buoy, Log-. J. H. Johnson. No. 1,163,931; Dec. 14; Gaz. vol. 221; p. 465.
- Bur-mills, Shoe for. J. A. Poplin. No. 1,131,548; Mar. 9; Gaz. vol. 212; p. 625.
- Bur-stand. R. B. Savin. No. 1,135,625; Apr. 13; Gaz. vol. 213; p. 590.
- Burs, Apparatus for removing. W. McKee. No. 1,135,705; Apr. 13; Gaz. vol. 213; p. 618.
- Burette. R. W. Curtis. No. 1,136,108; Apr. 20; Gaz. vol. 213; p. 798.
- Burglar-alarm. W. T. Bradshaw. No. 1,129,786; Feb. 23; Gaz. vol. 211; p. 1214.
- Burglar-alarm. H. T. Gay. No. 1,155,144; Sept. 28; Gaz. vol. 218; p. 1072.
- Burglar-alarm. J. Jones, Jr. No. 1,146,883; July 20; Gaz. vol. 216; p. 707.
- Burglar-alarm. C. W. Manning and A. C. M. Gould. No. 1,158,140; Oct. 26; Gaz. vol. 219; p. 1103.
- Burglar-alarm. S. Milano. No. 1,163,164; Dec. 7; Gaz. vol. 221; p. 150.
- Burglar-alarm. T. H. Nelson. No. 1,127,916; Feb. 9; Gaz. vol. 211; p. 480.
- Burglar-alarm. C. Possenti. No. 1,159,991; Nov. 9; Gaz. vol. 220; p. 589.
- Burglar-alarm. J. A. G. Schmiedeberg. No. 1,123,393; Jan. 5; Gaz. vol. 210; p. 68.
- Burglar-alarm and lock, Combined. A. Hamelin. No. 1,157,863; Oct. 26; Gaz. vol. 219; p. 1005.
- Burglar-alarm bolt. T. L. Pidgeon. No. 1,156,809; Oct. 12; Gaz. vol. 219; p. 540.
- Burglar-alarm for safes. T. Prushey. No. 1,124,169; Jan. 5; Gaz. vol. 210; p. 330.
- Burglar-alarm lock. J. Baltes. No. 1,139,152; May 11; Gaz. vol. 214; p. 543.
- Burglar-alarm system. S. D. Tomaso. No. 1,157,601; Oct. 19; Gaz. vol. 219; p. 848.
- Burglar-alarm system, Automatic. L. H. German. No. 1,141,327; June 1; Gaz. vol. 215; p. 86.
- Burglar-alarm system, Electric. J. P. Williams. No. 1,133,689; Mar. 30; Gaz. vol. 212; p. 1521.
- Burglar and fire alarm. M. J. Ryan. No. 1,156,497; Oct. 12; Gaz. vol. 219; p. 434.
- Burglar and fire alarm system and telephone service, Combined automatic. O. Asmussen. No. 1,150,239; Aug. 17; Gaz. vol. 217; p. 792.
- Burglar and fire alarm system, Combined automatic. O. Asmussen. No. 1,145,224; July 6; Gaz. vol. 216; p. 86.
- Burglar and signal device. A. Casper. No. 1,160,496; Nov. 16; Gaz. vol. 220; p. 818.
- Burglar, fire, and general alarm, Electric. H. W. Olney. No. 1,158,146; Oct. 26; Gaz. vol. 219; p. 1104.
- Burglar or fire alarm. G. Spitz. No. 1,140,081; May 18; Gaz. vol. 214; p. 905.
- Burial-case. G. L. Campbell. No. 1,137,696; Apr. 27; Gaz. vol. 213; p. 1397.
- Burial-cases, Manufacture of cement. V. E. Randall. No. 1,144,970; June 29; Gaz. vol. 215; p. 1482.
- Burial-cases, Reinforcing structure for. V. E. Randall and H. E. Russell. No. 1,163,853; Dec. 14; Gaz. vol. 221; p. 433.
- Burial-casket. O. G. Gompf. No. 1,149,907; Aug. 10; Gaz. vol. 217; p. 612.
- Burner: See—
- | | |
|----------------------------|---------------------------------|
| Blue-flame wick-burner. | Liquid and gaseous fuel burner. |
| Bone-burner. | Long-time burner. |
| Bunsen burner. | Liquid-fuel burner. |
| Centrifugal burner. | Oil-burner. |
| Coal-burner. | Oil and water burner. |
| Distillate-burner. | Oil-fuel burner. |
| Fluid-burner. | Pilot-burner. |
| Furnace-burner. | Range-burner. |
| Garbage-burner. | Refuse-burner. |
| Gas-burner. | Singeing-burner. |
| Gas-generating burner. | Spray-burner. |
| Gas-generating oil-burner. | Stove-burner. |
| Grass-burner. | Stump-burner. |
| Heater-burner. | Sulfur-burner. |
| Hull-burner. | Surface combustion burner. |
| Hydrocarbon-burner. | Vapor-burner. |
| Incandescing burner. | Weed-burner. |
| Kerosene-burner. | Wick-burner. |
| Lamp-burner. | |
| Liquid-burner. | |
- Burner. F. Antonuccio. No. 1,130,132; Mar. 2; Gaz. vol. 212; p. 101.
- Burner. G. W. Bartlett. No. 1,159,314; Nov. 2; Gaz. vol. 220; p. 315.
- Burner. A. H. Best. No. 1,146,395; July 13; Gaz. vol. 216; p. 517.
- Burner. L. S. Chadwick. No. 1,138,729; May 11; Gaz. vol. 214; p. 397.

Alphabetical list of inventions—Continued.

- Burner. W. F. Day. No. 1,130,070; Mar. 2; Gaz. vol. 212; p. 80.
 Burner, W. F. Day. No. 1,163,221; Dec. 7; Gaz. vol. 221; p. 170.
 Burner. W. F. Day. (Reissue.) No. 14,030; Dec. 14; Gaz. vol. 221; p. 703.
 Burner. F. M. Furber. No. 1,127,355; Feb. 2; Gaz. vol. 211; p. 240.
 Burner. G. W. Hopkins. No. 1,142,098; June 8; Gaz. vol. 215; p. 393.
 Burner. R. R. James. No. 1,156,845; Oct. 12; Gaz. vol. 219; p. 555.
 Burner. S. G. Johnston. No. 1,134,863; Apr. 6; Gaz. vol. 213; p. 280.
 Burner. C. R. Lambert. No. 1,137,148; Apr. 27; Gaz. vol. 213; p. 1207.
 Burner. C. I. Lindau. No. 1,131,718; Mar. 16; Gaz. vol. 212; p. 719.
 Burner. J. A. Mahr. No. 1,126,245; Jan. 26; Gaz. vol. 210; p. 1191.
 Burner. T. J. McAdams. No. 1,128,338; Feb. 16; Gaz. vol. 211; p. 677.
 Burner. R. F. Metcalfe. No. 1,162,942; Dec. 7; Gaz. vol. 221; p. 71.
 Burner. S. Thompson, Jr. No. 1,149,870; Aug. 10; Gaz. vol. 217; p. 598.
 Burner attachment. D. Davis. No. 1,157,511; Oct. 19; Gaz. vol. 219; p. 820.
 Burner attachment. F. Maurer. No. 1,166,140; Dec. 28; Gaz. vol. 221; p. 1317.
 Burner attachment. B. A. Tucker. No. 1,164,768; Dec. 21; Gaz. vol. 221; p. 796.
 Burner for gas and similar radiators, stoves, and the like. A. B. Walker. No. 1,155,630; Oct. 5; Gaz. vol. 219; p. 105.
 Burner-tip. H. Lyon. No. 1,154,421; Sept. 21; Gaz. vol. 218; p. 795.
 Burners. Adapter for Bunsen. J. I. Robin. No. 1,135,398; Apr. 13; Gaz. vol. 213; p. 508.
 Burners. Air-supplying means for liquid-fuel. C. Radi-guer. No. 1,163,108; Dec. 7; Gaz. vol. 221; p. 130.
 Burners by means of liquid fuel, System for operating. C. A. Brown. No. 1,160,371; Nov. 16; Gaz. vol. 220; p. 773.
 Burners. Chimney for incandescent. A. P. Storrs. No. 1,129,135; Feb. 23; Gaz. vol. 211; p. 990.
 Burners. Heat-radiating attachment for gas and oil illuminating. J. Weigel, Sr. No. 1,127,950; Feb. 9; Gaz. vol. 211; p. 493.
 Burners, &c., Liquid-feeder for. E. P. Noyes. No. 1,141,258; June 1; Gaz. vol. 215; p. 59.
 Burning explosive gaseous mixtures. C. E. Lucke. No. 1,146,724; July 13; Gaz. vol. 216; p. 631.
 Burning explosive gaseous mixtures. C. E. Lucke. No. 1,146,725; July 13; Gaz. vol. 216; p. 632.
 Burning finely-divided fuel, Apparatus for. E. H. Pea-body. No. 1,126,654; Jan. 26; Gaz. vol. 210; p. 1339.
 Burning finely-divided fuel, Apparatus for. E. H. Pea-body and D. J. Irish. No. 1,129,309; Feb. 23; Gaz. vol. 211; p. 1050.
 Burning fuel. E. F. Stewart and R. P. Perry. No. 1,134,421; Apr. 6; Gaz. vol. 213; p. 123.
 Burning liquid and other fuels. C. E. Lucke. No. 1,146,726; July 13; Gaz. vol. 216; p. 632.
 Burnishing-machine. L. J. Van Guelpen and P. Bernhardt. No. 1,162,829; Dec. 7; Gaz. vol. 221; p. 35.
 Bus-bar circuits. Protective device for. P. Torchio and H. R. Woodrow. No. 1,133,338; Mar. 30; Gaz. vol. 212; p. 1393.
 Bushing. L. A. Biggar. No. 1,156,582; Oct. 12; Gaz. vol. 219; p. 463.
 Bushing or bearing device. W. T. Richards. No. 1,126,276; Jan. 26; Gaz. vol. 210; p. 1201.
 Bushing. Removable. W. R. Widdup. No. 1,124,986; Jan. 12; Gaz. vol. 210; p. 671.
 Bushing. Terminal. S. W. Farnsworth. No. 1,129,460; Feb. 23; Gaz. vol. 211; p. 1104.
 Bushing. Terminal. C. L. Fortescue. No. 1,129,468; Feb. 23; Gaz. vol. 211; p. 1107.
 Bushing. Terminal. J. E. Mateer. No. 1,129,500; Feb. 23; Gaz. vol. 211; p. 1118.
 Bust-reducer. J. M. Bodensiek. No. 1,126,366; Jan. 26; Gaz. vol. 210; p. 1234.
 Bust-supporter. G. B. Smith. No. 1,139,448; May 11; Gaz. vol. 214; p. 645.
 Butcher-block cleaner. W. E. De Graff. No. 1,139,500; May 18; Gaz. vol. 214; p. 699.
 Butt and lock gage. R. Neumann. No. 1,144,049; June 22; Gaz. vol. 215; p. 1137.
 Butter and egg case, Combined. H. K. Parker and J. T. Nusbaum. No. 1,163,363; Dec. 7; Gaz. vol. 221; p. 221.
 Butter. Arrangement for severing single pieces from a bar of. E. Jagenberg. No. 1,132,938; Mar. 23; Gaz. vol. 212; p. 1214.
 Butter-case, Separable. W. M. Way. No. 1,146,219; July 13; Gaz. vol. 216; p. 456.
 Butter-coloring device. D. M. Dore. No. 1,163,982; Dec. 14; Gaz. vol. 221; p. 481.
 Butter container and cutter. G. E. Terry. No. 1,123,623; Jan. 5; Gaz. vol. 210; p. 146.
 Butter-cutter. S. Araki. No. 1,144,282; June 22; Gaz. vol. 215; p. 1219.
 Butter-cutter. W. Cole. No. 1,145,557; July 6; Gaz. vol. 216; p. 203.
 Butter-cutter. H. B. Drosin and M. Gordon. No. 1,141,784; June 1; Gaz. vol. 215; p. 244.
 Butter-cutter. C. A. Patterson. No. 1,132,378; Mar. 16; Gaz. vol. 212; p. 960.
 Butter-cutter. F. M. Schaefer. No. 1,165,716; Dec. 28; Gaz. vol. 221; p. 1168.
 Butter-cutting machine. E. Franke. No. 1,135,005; Apr. 13; Gaz. vol. 213; p. 374.
 Butter-dispensing apparatus. B. D. Straight. No. 1,146,972; July 20; Gaz. vol. 216; p. 740.
 Butter-dispensing apparatus, Automatic. E. M. Larson. No. 1,159,688; Nov. 9; Gaz. vol. 220; p. 479.
 Butter-finishers for working out buttermilk or water, Mechanism on. E. Hansen. No. 1,137,612; Apr. 27; Gaz. vol. 213; p. 1371.
 Butter-making machine. P. Hanson. No. 1,131,778; Mar. 16; Gaz. vol. 212; p. 742.
 Butter-merging apparatus. L. A. Brown. No. 1,141,762; June 1; Gaz. vol. 215; p. 237.
 Butter-mold. F. H. Delaney. No. 1,157,766; Oct. 26; Gaz. vol. 219; p. 970.
 Butter-separator. A. Fay. No. 1,155,306; Sept. 28; Gaz. vol. 218; p. 1122.
 Butter, Sterilizing and securing uniformity of edible quality in. J. M. W. Kitchen. No. 1,125,693; Jan. 19; Gaz. vol. 210; p. 960.
 Butterfly-gate. E. H. Martin. No. 1,147,112; July 20; Gaz. vol. 216; p. 788.
 Button. O. E. Backus. No. 1,127,847; Feb. 9; Gaz. vol. 211; p. 456.
 Button. R. C. Bradley. No. 1,164,460; Dec. 14; Gaz. vol. 221; p. 650.
 Button. L. J. Hare. No. 1,134,847; Apr. 6; Gaz. vol. 213; p. 275.
 Button. M. Koppelman. No. 1,139,425; May 11; Gaz. vol. 214; p. 637.
 Button. A. Mella. No. 1,136,692; Apr. 20; Gaz. vol. 213; p. 1007.
 Button. A. N. Newell. No. 1,164,744; Dec. 21; Gaz. vol. 221; p. 788.
 Button. J. O. Nygaard. No. 1,127,669; Feb. 9; Gaz. vol. 211; p. 389.
 Button. E. O. Presby. No. 1,137,789; May 4; Gaz. vol. 214; p. 24.
 Button. A. C. Rovelli. No. 1,150,886; Aug. 24; Gaz. vol. 217; p. 1073.
 Button. C. S. Winn. No. 1,141,090; Mar. 25; Gaz. vol. 214; p. 1290.
 Button and buttonhole marking device. W. S. Fredland. No. 1,140,304; May 18; Gaz. vol. 214; p. 981.
 Button and drawers-hook, Suspender. J. Loeffler. No. 1,132,595; Mar. 23; Gaz. vol. 212; p. 1087.
 Button and necktie-fastener, Combined collar. R. H. Kimsey. No. 1,143,834; June 22; Gaz. vol. 215; p. 1061.
 Button and safety-pin, Detachable. F. E. Williams. No. 1,141,162; June 1; Gaz. vol. 215; p. 25.
 Button and skirt-supporter, Interchangeable collar. T. S. Stewart. No. 1,157,818; Oct. 26; Gaz. vol. 219; p. 988.
 Button and tie-slide, Combined collar. W. W. Brown. No. 1,146,688; July 13; Gaz. vol. 216; p. 620.
 Button and watch-chain attachment, Combined. T. Cameron. No. 1,134,372; Apr. 6; Gaz. vol. 213; p. 105.
 Button-attaching machine. J. Kelly. No. 1,128,456; Feb. 16; Gaz. vol. 211; p. 717.
 Button-attaching machine. B. Kotkovský. No. 1,134,078; Mar. 30; Gaz. vol. 212; p. 1652.
 Button-attaching machine. W. H. Wyman. No. 1,142,004; June 8; Gaz. vol. 215; p. 359.
 Button-attaching-machine escapement. F. R. White. No. 1,157,743; Oct. 26; Gaz. vol. 219; p. 964.
 Button-attaching machines, Fastener-escapement for. F. R. White. No. 1,154,680; Sept. 28; Gaz. vol. 218; p. 913.
 Button-attaching tool, Hand. W. E. Elliott and D. S. Cole. No. 1,136,518; Apr. 20; Gaz. vol. 213; p. 946.
 Button attachment, Spring-pressed. H. Waldes. No. 1,151,310; Aug. 24; Gaz. vol. 217; p. 1218.
 Button-base. C. E. Cooper. No. 1,147,003; July 20; Gaz. vol. 216; p. 751.
 Button, Collar. C. W. Blackburn and L. C. Shattuck. No. 1,147,673; July 20; Gaz. vol. 216; p. 985.
 Button, Collar. C. E. Brown. No. 1,128,750; Feb. 16; Gaz. vol. 211; p. 817.
 Button, Collar. R. N. Saunders. No. 1,155,962; Oct. 5; Gaz. vol. 219; p. 221.
 Button, Collar. F. A. Sutphen. No. 1,150,644; Aug. 17; Gaz. vol. 217; p. 933.
 Button, Collar, cuff, and shirt. J. S. Mead. No. 1,148,112; July 27; Gaz. vol. 216; p. 1168.
 Button-container. F. C. Vetter. No. 1,156,644; Oct. 12; Gaz. vol. 219; p. 485.
 Button, Cuff. A. Hadley. No. 1,123,735; Jan. 5; Gaz. vol. 210; p. 183.
 Button, Cuff. D. M. Hensley and E. M. Sether. No. 1,133,859; Mar. 30; Gaz. vol. 212; p. 1581.
 Button-cutting machine. H. Chalmers. No. 1,129,166; Feb. 23; Gaz. vol. 211; p. 1000.
 Button-detaching tool. T. A. Meitz. No. 1,125,366; Jan. 19; Gaz. vol. 210; p. 844.

Alphabetical list of inventions—Continued.

- Button facing and drilling machine. J. H. Hammann. No. 1,160,997; Nov. 16; Gaz. vol. 220; p. 997.
- Button-fasteners, Machine for making. F. G. Neuberth. No. 1,128,352; Feb. 16; Gaz. vol. 211; p. 681.
- Button-fastening machine. A. H. De Voe. No. 1,157,621; Oct. 19; Gaz. vol. 219; p. 854.
- Button-feeding mechanism. W. L. Barron. No. 1,152,692; Sept. 7; Gaz. vol. 218; p. 115.
- Button-feeding mechanism. C. C. Hammond. No. 1,155,148; Sept. 28; Gaz. vol. 218; p. 1073.
- Button-feeding mechanism. D. C. Sassemann. No. 1,126,091; Jan. 26; Gaz. vol. 210; p. 1135.
- Button-fixture. A. Holter. No. 1,156,231; Oct. 12; Gaz. vol. 219; p. 339.
- Button, Garment. W. P. Gerber. No. 1,160,591; Nov. 16; Gaz. vol. 220; p. 852.
- Button, Link. A. Bippart. No. 1,148,821; Aug. 3; Gaz. vol. 217; p. 121.
- Button-locating attachment, Shirt. L. E. Burdick. No. 1,160,492; Nov. 16; Gaz. vol. 220; p. 817.
- Button magazine and feeding device. B. Kotkovsky. No. 1,145,774; July 6; Gaz. vol. 216; p. 280.
- Button-making machine. A. R. and J. R. Lopez. No. 1,152,111; Aug. 31; Gaz. vol. 217; p. 1540.
- Button, Pressure. J. A. Joron. No. 1,146,712; July 13; Gaz. vol. 216; p. 627.
- Button, Removable. I. Reid. No. 1,146,652; July 13; Gaz. vol. 216; p. 607.
- Button-remover. J. D. Freeman. No. 1,153,904; Sept. 21; Gaz. vol. 218; p. 617.
- Button-removing implement, Shoe. S. Klein. No. 1,133,803; Mar. 30; Gaz. vol. 212; p. 1561.
- Button-removing machine, Shoe. H. J. Bragdon. No. 1,133,226; Mar. 23; Gaz. vol. 212; p. 1316.
- Button, Safety collar. G. B. Manning. No. 1,148,978; Aug. 3; Gaz. vol. 217; p. 175.
- Button, Separable. I. Gause. No. 1,149,124; Aug. 3; Gaz. vol. 217; p. 223.
- Button, Separable. C. G. Sjöberg. No. 1,137,918; May 4; Gaz. vol. 214; p. 68.
- Button separator, Shoe. A. F. Seaman. No. 1,141,727; June 1; Gaz. vol. 215; p. 227.
- Button-setting machine. W. E. Elliott. No. 1,147,381; July 20; Gaz. vol. 216; p. 882.
- Button-setting machine. C. C. Hammond. No. 1,144,841; June 29; Gaz. vol. 215; p. 1439.
- Button, Shank. C. J. Spill. No. 1,143,457; June 15; Gaz. vol. 215; p. 908.
- Button, Shoe. J. Kopecky. No. 1,144,852; June 29; Gaz. vol. 215; p. 1444.
- Button, Snap. J. J. Brell. No. 1,152,785; Sept. 7; Gaz. vol. 218; p. 148.
- Button, Snap. A. J. Dieckmann. No. 1,147,618; July 20; Gaz. vol. 216; p. 965.
- Button-stapling machine. O. W. Nunn. No. 1,132,112; Mar. 16; Gaz. vol. 212; p. 862.
- Button, Tack-fastened. G. A. King. No. 1,127,637; Feb. 9; Gaz. vol. 211; p. 378.
- Button, Tack-fastened. F. E. Stanley. No. 1,142,376; June 8; Gaz. vol. 215; p. 490.
- Button-turning machine. H. Hastings. No. 1,152,315; Aug. 31; Gaz. vol. 217; p. 1609.
- Buttons and like articles, Machine for setting. O. S. Bickford. No. 1,151,998; Aug. 31; Gaz. vol. 217; p. 1500.
- Buttons and staples, Mounting for combined shoe. W. E. Elliott. No. 1,147,382; July 20; Gaz. vol. 216; p. 883.
- Buttons, Forming one-piece cuff. J. L. Herzog. No. 1,148,317; July 27; Gaz. vol. 216; p. 1240.
- Buttons, Making. A. F. Guyot. No. 1,147,320; July 20; Gaz. vol. 216; p. 858.
- Buttons, Making cuff. M. L. Robbins. No. 1,155,837; Oct. 5; Gaz. vol. 219; p. 180.
- Buttons on cards, Machine for attaching. E. G. Denniston. No. 1,145,353; July 6; Gaz. vol. 216; p. 130.
- Buttons, Safety device for cuff. H. R. Rogalsky. No. 1,139,137; May 11; Gaz. vol. 214; p. 537.
- Buttons to fabrics, Method and apparatus for attaching. F. A. Miner. No. 1,140,474; May 25; Gaz. vol. 214; p. 1078.
- Buttonhole cutting and sewing machine. E. B. Allen. No. 1,136,388; Apr. 20; Gaz. vol. 213; p. 899.
- Buttonhole cutting and stitching machine. E. B. Allen. No. 1,135,933; Apr. 13; Gaz. vol. 213; p. 696.
- Buttonhole-finishing machine. C. H. T. Hagelstein. No. 1,124,894; Jan. 12; Gaz. vol. 210; p. 639.
- Buttonhole for wearing-apparel. C. W. T. Davies. No. 1,147,485; July 20; Gaz. vol. 216; p. 919.
- Buttonhole-guide. I. Brown. No. 1,141,761; June 1; Gaz. vol. 215; p. 237.
- Buttonhole-marking machine. W. T. Benjamin. No. 1,156,580; Oct. 12; Gaz. vol. 219; p. 463.
- Buttonhole spacer and marker for buttonhole-machines. A. B. Wales. No. 1,134,966; Apr. 6; Gaz. vol. 213; p. 314.
- Buttonhole, Stitched. E. B. Allen. No. 1,136,389; Apr. 20; Gaz. vol. 213; p. 900.
- Buttonhole-strip. R. W. Sexton. No. 1,132,397; Mar. 16; Gaz. vol. 212; p. 967.
- Buttonhole-working device. J. J. Woodward. No. 1,126,152; Jan. 26; Gaz. vol. 210; p. 1156.
- Buttonholes, Forming reinforced. J. J. Woodward. No. 1,126,609; Jan. 26; Gaz. vol. 210; p. 1323.
- Buzz-effect-producing device. R. H. Mayland. No. 1,150,447; Aug. 17; Gaz. vol. 217; p. 863.
- C-bars, Apparatus for making. R. M. Hubler and D. E. Jones. No. 1,132,185; Mar. 16; Gaz. vol. 212; p. 889.
- Cab signal system. P. J. Simmen. No. 1,140,623; May 25; Gaz. vol. 214; p. 1130.
- Cabinet. G. S. Carter. No. 1,138,353; May 4; Gaz. vol. 214; p. 223.
- Cabinet. J. E. Collins and A. M. Clough. No. 1,127,189; Feb. 2; Gaz. vol. 211; p. 185.
- Cabinet. A. P. Dulgeroff. No. 1,162,146; Nov. 30; Gaz. vol. 220; p. 1493.
- Cabinet. F. P. Eldridge. No. 1,152,404; Sept. 7; Gaz. vol. 218; p. 8.
- Cabinet. E. B. H. A. Gourlay. No. 1,153,062; Sept. 7; Gaz. vol. 218; p. 247.
- Cabinet. M. L. Laurette. No. 1,135,300; Apr. 13; Gaz. vol. 213; p. 475.
- Cabinet. E. Nelson. No. 1,133,997; Mar. 30; Gaz. vol. 212; p. 1623.
- Cabinet. J. Parent. No. 1,125,591; Jan. 19; Gaz. vol. 210; p. 921.
- Cabinet. P. R. Vogel. No. 1,160,218; Nov. 16; Gaz. vol. 220; p. 721.
- Cabinet. F. L. Wadham. No. 1,146,977; July 20; Gaz. vol. 216; p. 742.
- Cabinet, Accounts-delivery. N. Olsen. No. 1,155,954; Oct. 5; Gaz. vol. 219; p. 219.
- Cabinet and disappearing table, Combined dresser. R. E. McKee. No. 1,128,477; Feb. 16; Gaz. vol. 211; p. 724.
- Cabinet and stove, Combination kitchen. W. Buttler. No. 1,153,597; Sept. 14; Gaz. vol. 218; p. 477.
- Cabinet and table, Combined. C. H. Harris. No. 1,129,800; Feb. 23; Gaz. vol. 211; p. 1218.
- Cabinet and table, Combined. E. E. Phelps. No. 1,133,743; Mar. 30; Gaz. vol. 212; p. 1539.
- Cabinet and table, Combined kitchen. J. Souk. No. 1,161,079; Nov. 23; Gaz. vol. 220; p. 1070.
- Cabinet and winding machine, Ribbon. L. W. Worsham and J. A. Hautier. No. 1,138,598; May 4; Gaz. vol. 214; p. 305.
- Cabinet-brace. N. O. Nelson. No. 1,130,426; Mar. 2; Gaz. vol. 212; p. 204.
- Cabinet, Button-display. E. B. Hammer. No. 1,147,235; July 20; Gaz. vol. 216; p. 831.
- Cabinet, Classifying. C. H. Middaugh. No. 1,135,038; Apr. 13; Gaz. vol. 213; p. 386.
- Cabinet, Collapsible. F. F. Burdick. No. 1,141,036; May 25; Gaz. vol. 214; p. 1272.
- Cabinet construction, Safe. A. H. Schaffert. No. 1,164,123; Dec. 14; Gaz. vol. 221; p. 532.
- Cabinet, Cooking. J. F. P. McMullen. No. 1,143,420; June 15; Gaz. vol. 215; p. 895.
- Cabinet, Credit. E. J. Von Fein. No. 1,134,248; Apr. 6; Gaz. vol. 213; p. 60.
- Cabinet, Delivering. C. R. Adair and F. A. Bane. No. 1,144,928; June 29; Gaz. vol. 215; p. 1467.
- Cabinet, Deliveryman's. M. Lester. No. 1,164,201; Dec. 14; Gaz. vol. 221; p. 557.
- Cabinet, Dental. E. Zinke and C. H. Bull. No. 1,123,830; Jan. 5; Gaz. vol. 210; p. 215.
- Cabinet, Developing. R. V. Tuttle. No. 1,132,808; Mar. 23; Gaz. vol. 212; p. 1168.
- Cabinet, Disk-record. B. E. Kingman. No. 1,127,091; Feb. 2; Gaz. vol. 211; p. 151.
- Cabinet, Dispensing. W. S. Hawk. No. 1,124,615; Jan. 12; Gaz. vol. 210; p. 540.
- Cabinet, Dispensing. D. M. Ross. No. 1,160,448; Nov. 16; Gaz. vol. 220; p. 800.
- Cabinet, Dispensing. S. Wheeler. No. 1,161,564; Nov. 23; Gaz. vol. 220; p. 1244.
- Cabinet-drawer. H. Clemetsen. No. 1,145,001; July 6; Gaz. vol. 216; p. 8.
- Cabinet-drawer and the like. B. G. Richards. No. 1,160,322; Nov. 16; Gaz. vol. 220; p. 757.
- Cabinet, Exhibition. C. B. Wingett. No. 1,123,638; Jan. 5; Gaz. vol. 210; p. 151.
- Cabinet, Feeding. F. H. Hoberg. No. 1,154,634; Sept. 28; Gaz. vol. 218; p. 897.
- Cabinet, Filing. C. and W. Liebert. No. 1,149,999; Aug. 10; Gaz. vol. 217; p. 645.
- Cabinet, Foldable drying. G. Dieckmann. No. 1,135,267; Apr. 13; Gaz. vol. 213; p. 463.
- Cabinet, Folding. J. J. Leighty. No. 1,133,866; Mar. 30; Gaz. vol. 212; p. 1584.
- Cabinet, Folding. H. Yamasaki. No. 1,149,012; Aug. 3; Gaz. vol. 217; p. 187.
- Cabinet for disk records. H. E. Stevens, Jr. No. 1,145,712; July 6; Gaz. vol. 216; p. 259.
- Cabinet for dispensing separate sheets from paper packs. C. P. Winter. No. 1,164,047; Dec. 14; Gaz. vol. 221; p. 505.
- Cabinet for drying films, plates, and prints. W. P. Henry. No. 1,153,688; Sept. 14; Gaz. vol. 218; p. 507.
- Cabinet for holding stationery. R. M. Henderson. No. 1,143,391; June 15; Gaz. vol. 215; p. 886.
- Cabinet for meat and other food products. W. P. Michel. No. 1,132,022; Mar. 16; Gaz. vol. 212; p. 831.

Alphabetical list of inventions—Continued.

- Cabinet for protecting milk, Automatically-controlled. A. J. Fager and J. W. Milbery. No. 1,130,384; Mar. 2; Gaz. vol. 212; p. 189.
- Cabinet for toilet purposes, Dispensing-. F. W. Calvert. No. 1,163,737; Dec. 14; Gaz. vol. 221; p. 396.
- Cabinet, Index-. C. E. Pittenger. No. 1,130,332; Mar. 2; Gaz. vol. 212; p. 170.
- Cabinet, Ironing-board. P. J. Sullivan. No. 1,129,315; Feb. 23; Gaz. vol. 211; p. 1052.
- Cabinet, Kitchen-. D. Powell and C. O. Brage. No. 1,124,655; Jan. 12; Gaz. vol. 210; p. 555.
- Cabinet, Kitchen-. H. J. Ritter. No. 1,146,521; July 13; Gaz. vol. 216; p. 563.
- Cabinet, Label-. E. N. Rowell. No. 1,151,402; Aug. 24; Gaz. vol. 217; p. 1247.
- Cabinet, Merchandise-. C. F. Stewart. No. 1,131,283; Mar. 9; Gaz. vol. 212; p. 534.
- Cabinet, Music-. A. Frommer and C. W. Zenker. No. 1,159,003; Nov. 2; Gaz. vol. 220; p. 206.
- Cabinet, Music-. M. A. Hawkins. No. 1,135,281; Apr. 13; Gaz. vol. 213; p. 468.
- Cabinet, Paper-. F. H. Hoberg. No. 1,154,632; Sept. 28; Gaz. vol. 218; p. 896.
- Cabinet, Paper-drinking-cup. W. E. Swift. No. 1,151,064; Aug. 24; Gaz. vol. 217; p. 1134.
- Cabinet, Paper-feeding. F. H. Hoberg. No. 1,154,633; Sept. 28; Gaz. vol. 218; p. 897.
- Cabinet, Portable dark. G. Leachman. No. 1,159,966; Nov. 9; Gaz. vol. 220; p. 581.
- Cabinet, Rubber-stamp. H. W. Roberts. No. 1,155,509; Oct. 5; Gaz. vol. 219; p. 65.
- Cabinet, Scale-. H. Holz. No. 1,151,788; Aug. 31; Gaz. vol. 217; p. 1427.
- Cabinet scraper-holder. T. W. Cottle. No. 1,135,361; Apr. 13; Gaz. vol. 213; p. 495.
- Cabinet, Shaving-. F. L. Parks. No. 1,128,497; Feb. 16; Gaz. vol. 211; p. 731.
- Cabinet, Shipper-. H. F. Keil. No. 1,131,143; Mar. 9; Gaz. vol. 212; p. 486.
- Cabinet, Shoe-polishing. I. M. Beemer. No. 1,147,779; July 27; Gaz. vol. 216; p. 1047.
- Cabinet, Sorting-. A. F. Walz. No. 1,143,668; June 22; Gaz. vol. 215; p. 1004.
- Cabinet, Spice-. B. V. Apfeld. No. 1,162,203; Nov. 30; Gaz. vol. 220; p. 1513.
- Cabinet, Suspended ink-well. H. M. Sturgis. No. 1,164,966; Dec. 21; Gaz. vol. 221; p. 866.
- Cabinet, Therapeutic. B. Leslie. No. 1,158,382; Oct. 26; Gaz. vol. 219; p. 1187.
- Cabinet, Toilet dispensing-. A. F. Lesler. No. 1,134,879; Apr. 6; Gaz. vol. 213; p. 285.
- Cabinet, Towel-. E. M. Mikkelsen. No. 1,156,917; Oct. 19; Gaz. vol. 219; p. 610.
- Cabinet, Towel-. J. Rouso. No. 1,157,046; Oct. 19; Gaz. vol. 219; p. 656.
- Cabinet, Window-. E. Byrum. No. 1,151,863; Aug. 31; Gaz. vol. 217; p. 1455.
- Cabinets, Red for card-. M. L. Crowe. No. 1,161,290; Nov. 23; Gaz. vol. 220; p. 1148.
- Cable-armor. H. R. Gilson. No. 1,134,119; Apr. 6; Gaz. vol. 213; p. 12.
- Cable-armor joint. W. P. Traver and L. F. Theis. No. 1,137,931; May 4; Gaz. vol. 214; p. 72.
- Cable-carrier apparatus. M. B. Lawrence. No. 1,150,128; Aug. 17; Gaz. vol. 217; p. 752.
- Cable-carrier apparatus. F. R. Taisey. No. 1,157,193; Oct. 19; Gaz. vol. 219; p. 708.
- Cable-carrier system. F. J. H. Hazard. No. 1,124,431; Jan. 12; Gaz. vol. 210; p. 473.
- Cable-carrier system. F. R. Taisey. No. 1,157,190; Oct. 19; Gaz. vol. 219; p. 706.
- Cable-carrier system. F. R. Taisey. No. 1,157,191; Oct. 19; Gaz. vol. 219; p. 707.
- Cable-carrier system. F. R. Taisey. No. 1,157,192; Oct. 19; Gaz. vol. 219; p. 707.
- Cable-clamp. I. Evans. No. 1,154,916; Sept. 28; Gaz. vol. 218; p. 992.
- Cable-clamp. J. E. Ogden. No. 1,151,380; Aug. 24; Gaz. vol. 217; p. 1240.
- Cable clamp and bushing, Combined. C. Horn. No. 1,142,709; June 8; Gaz. vol. 215; p. 605.
- Cable-connector. C. B. Mills. No. 1,144,225; June 22; Gaz. vol. 215; p. 1200.
- Cable cutter, Mine-. N. Pedersen. No. 1,148,714; Aug. 3; Gaz. vol. 217; p. 83.
- Cable-cutting tool. A. O. Taylor. No. 1,125,209; Jan. 19; Gaz. vol. 210; p. 786.
- Cable for the transmission of mechanical movements. N. Hermark. (Reissue.) No. 1,388,4; Feb. 23; Gaz. vol. 211; p. 1232.
- Cable device, Slack-. D. L. Lindquist and D. Larson. No. 1,148,240; July 27; Gaz. vol. 216; p. 1211.
- Cable-grip. W. Hutchings. No. 1,153,621; Sept. 14; Gaz. vol. 218; p. 484.
- Cable-grip. T. D. Rivers. No. 1,148,717; Aug. 3; Gaz. vol. 217; p. 84.
- Cable-grip, Automatic-releasing. R. M. Dixon. No. 1,138,197; May 4; Gaz. vol. 214; p. 167.
- Cable-hanger. J. Blackburn. No. 1,144,318; June 22; Gaz. vol. 215; p. 1232.
- Cable-hanger. W. L. Cockrell. No. 1,141,316; June 1; Gaz. vol. 215; p. 82.
- Cable-hanger. E. Jewell. No. 1,164,613; Dec. 14; Gaz. vol. 221; p. 701.
- Cable-hanger. J. Kennedy. No. 1,154,319; Sept. 21; Gaz. vol. 218; p. 760.
- Cable hanger, Electric-. M. Blumenthal and B. S. Barnard. No. 1,123,668; Jan. 5; Gaz. vol. 210; p. 161.
- Cable-hanger, Torsional-grip. J. E. Ogden. No. 1,151,215; Aug. 24; Gaz. vol. 217; p. 1187.
- Cable-hook. F. W. Cooper. No. 1,152,397; Sept. 7; Gaz. vol. 218; p. 6.
- Cable-lubricator. O. Löwenberg. No. 1,160,919; Nov. 16; Gaz. vol. 220; p. 969.
- Cable-making apparatus. F. Brückerböhm. No. 1,157,500; Oct. 19; Gaz. vol. 219; p. 817.
- Cable, Mechanism for making armored. H. R. Gilson. No. 1,127,616; Feb. 9; Gaz. vol. 211; p. 372.
- Cable, Multiple-conductor. C. W. Davis. No. 1,132,452; Mar. 16; Gaz. vol. 212; p. 987.
- Cable or track lock for suspended lines or tracks, and a cable-support, Automatic. G. E. La Forest. No. 1,161,695; Nov. 23; Gaz. vol. 220; p. 1289.
- Cable-protective device. W. Pfannkuch. No. 1,161,723; Nov. 23; Gaz. vol. 220; p. 1297.
- Cable-rack. J. Kraus. No. 1,133,976; Mar. 30; Gaz. vol. 212; p. 1617.
- Cable-reeling mechanism. F. L. Sessions. No. 1,135,468; Apr. 13; Gaz. vol. 213; p. 533.
- Cable-support. O. W. Breidner. No. 1,155,127; Sept. 28; Gaz. vol. 218; p. 1066.
- Cable-supporting sheaves, Conveying-. E. B. Shields and L. L. Tyler. No. 1,150,972; Aug. 24; Gaz. vol. 217; p. 1103.
- Cable-tap. C. B. Mills. No. 1,144,224; June 22; Gaz. vol. 215; p. 1200.
- Cable-terminal. F. B. Cook. No. 1,165,756; Dec. 28; Gaz. vol. 221; p. 1182.
- Cable-terminal. H. W. Dunbar. No. 1,126,733; Feb. 2; Gaz. vol. 211; p. 23.
- Cable-tightener. A. Barnes. No. 1,143,483; June 15; Gaz. vol. 215; p. 916.
- Cable, Towing-. B. B. Ayers. No. 1,147,914; July 27; Gaz. vol. 216; p. 1096.
- Cable-winding mechanism. N. D. Levin. No. 1,137,338; Apr. 27; Gaz. vol. 213; p. 1278.
- Cables, Coupling-connector for submarine. L. Clark. No. 1,152,005; Aug. 31; Gaz. vol. 217; p. 1502.
- Cables entering junction-boxes, Terminal for. C. W. Davis. No. 1,130,483; Mar. 2; Gaz. vol. 212; p. 226.
- Cables, Splice for lead-armored. H. T. Whaler. No. 1,142,213; June 8; Gaz. vol. 215; p. 433.
- Cableway. W. J. A. Rankin. No. 1,133,818; Mar. 30; Gaz. vol. 212; p. 1567.
- Cage-safety, Automatic. J. L. Clarkson. No. 1,150,341; Aug. 17; Gaz. vol. 217; p. 828.
- Caisson and limber. L. N. D. Mixsell and C. J. Julstedt. No. 1,161,784; Nov. 23; Gaz. vol. 220; p. 1319.
- Cake-canister stand. L. C. Rupp. No. 1,125,182; Jan. 19; Gaz. vol. 210; p. 777.
- Cake-cooler. C. C. Moore. No. 1,143,644; June 22; Gaz. vol. 215; p. 997.
- Cake-dropping machine. R. Humphreys. No. 1,151,465; Aug. 24; Gaz. vol. 217; p. 1268.
- Cake-holding band, Adjustable. A. C. Carlson. No. 1,154,972; Sept. 28; Gaz. vol. 218; p. 1010.
- Cake machine, Cup-. J. S. Clinton. No. 1,162,751; Dec. 7; Gaz. vol. 221; p. 7.
- Cake or dough filling device. E. Katzinger. No. 1,146,576; July 13; Gaz. vol. 216; p. 583.
- Cake-stripping machine. C. R. Miller. No. 1,150,873; Aug. 24; Gaz. vol. 217; p. 1070.
- Cakes and similar articles of pastry, Attachable top for. C. A. Langhammer. No. 1,129,406; Feb. 23; Gaz. vol. 211; p. 1085.
- Calclining and clinkering. A. Carnie. No. 1,158,371; Oct. 26; Gaz. vol. 219; p. 1183.
- Calclining-furnace. A. Carnie. No. 1,158,372; Oct. 26; Gaz. vol. 219; p. 1184.
- Calclining-furnace. W. R. Clymer. No. 1,147,706; July 27; Gaz. vol. 216; p. 1022.
- Calcium-bisulfite liquor, Production of. H. O. V. Bergström. No. 1,159,352; Nov. 9; Gaz. vol. 220; p. 360.
- Calcium carbide, Manufacture of. F. M. Becket. No. 1,137,567; Apr. 27; Gaz. vol. 213; p. 1356.
- Calcium carbonitride, Producing. S. Peacock. No. 1,129,511; Feb. 23; Gaz. vol. 211; p. 1121.
- Calcium cyanamid by the action of nitrogen or calcium carbide, Making. E. Guil. No. 1,164,087; Dec. 14; Gaz. vol. 221; p. 519.
- Calcium cyanamid, Hydrating commercial. K. F. Cooper. No. 1,155,797; Oct. 5; Gaz. vol. 219; p. 165.
- Calcium cyanamid, Producing. J. H. Lidholm. No. 1,125,350; Jan. 19; Gaz. vol. 210; p. 837.
- Calcium hypochlorite, Making. H. K. Moore. No. 1,155,605; Oct. 5; Gaz. vol. 219; p. 93.
- Calculating and listing machine. D. W. Shiek. No. 1,143,448; June 15; Gaz. vol. 215; p. 906.
- Calculating apparatus. E. H. Palmer. No. 1,152,542; Sept. 7; Gaz. vol. 218; p. 60.
- Calculating device. J. M. Spitzglass. No. 1,145,042; July 6; Gaz. vol. 216; p. 24.
- Calculating device. F. J. C. Van Hardenbroek van Amerstol. No. 1,162,828; Dec. 7; Gaz. vol. 221; p. 34.

- Calculating device, Date-. D. S. Kerr. No. 1,123,754; Jan. 5; Gaz. vol. 210; p. 191.
- Calculating device, Parcel-post. B. Morgan. No. 1,145,696; July 6; Gaz. vol. 216; p. 252.
- Calculating instrument. E. Hill. No. 1,145,020; July 6; Gaz. vol. 216; p. 16.
- Calculating-machine. S. B. Austin. No. 1,136,391; Apr. 20; Gaz. vol. 213; p. 901.
- Calculating-machine. H. S. Booth. No. 1,133,917; Mar. 30; Gaz. vol. 212; p. 1599.
- Calculating-machine. S. E. Carlin. No. 1,164,630; Dec. 21; Gaz. vol. 221; p. 748.
- Calculating-machine. H. Cordt. No. 1,158,374; Oct. 26; Gaz. vol. 219; p. 1184.
- Calculating-machine. L. I. Darby and C. N. Walsh. No. 1,155,048; Sept. 28; Gaz. vol. 218; p. 1036.
- Calculating-machine. C. W. Gooch. No. 1,128,679; Feb. 16; Gaz. vol. 211; p. 793.
- Calculating-machine. W. S. Gubelmann. No. 1,160,071; Nov. 9; Gaz. vol. 220; p. 615.
- Calculating-machine. A. D. Harmon. No. 1,136,797; Apr. 20; Gaz. vol. 213; p. 1044.
- Calculating-machine. L. M. Heron. No. 1,136,673; Apr. 20; Gaz. vol. 213; p. 999.
- Calculating-machine. W. W. Hopkins. No. 1,153,386; Sept. 14; Gaz. vol. 218; p. 400.
- Calculating-machine. F. L. Martindale. No. 1,157,320; Oct. 19; Gaz. vol. 219; p. 753.
- Calculating-machine. J. F. Mays. No. 1,127,061; Feb. 2; Gaz. vol. 211; p. 140.
- Calculating-machine. A. S. McCaskey. No. 1,147,957; July 27; Gaz. vol. 216; p. 1110.
- Calculating-machine. W. C. Michael. No. 1,147,034; July 20; Gaz. vol. 216; p. 761.
- Calculating-machine. R. Mohn. No. 1,145,386; July 6; Gaz. vol. 216; p. 143.
- Calculating-machine. S. E. Myers. No. 1,161,065; Nov. 23; Gaz. vol. 220; p. 1065.
- Calculating-machine. C. Rasmussen. No. 1,150,705; Aug. 17; Gaz. vol. 217; p. 954.
- Calculating-machine. F. Rauchwetter. No. 1,127,677; Feb. 9; Gaz. vol. 211; p. 392.
- Calculating-machine. H. Raucher. No. 1,136,484; Apr. 20; Gaz. vol. 213; p. 934.
- Calculating-machine. P. Reiss. No. 1,156,313; Oct. 12; Gaz. vol. 219; p. 366.
- Calculating-machine. F. C. Rinsche. No. 1,138,792; May 11; Gaz. vol. 214; p. 415.
- Calculating-machine. D. W. Shiek. No. 1,143,920; June 22; Gaz. vol. 215; p. 1089.
- Calculating-machine. J. Spurgeon. No. 1,160,337; Nov. 16; Gaz. vol. 220; p. 762.
- Calculating-machine. O. Thieme. No. 1,143,241; June 15; Gaz. vol. 215; p. 834.
- Calculating-machine. F. Trinks. No. 1,149,872; Aug. 10; Gaz. vol. 217; p. 598.
- Calculating-machine. F. Trinks. No. 1,160,015; Nov. 9; Gaz. vol. 220; p. 597.
- Calculating-machine. F. Trinks. No. 1,162,667; Nov. 30; Gaz. vol. 220; p. 1667.
- Calculating-machine. J. A. Turck. No. 1,154,897; Sept. 28; Gaz. vol. 218; p. 985.
- Calculating-machine. J. C. Wahl. No. 1,148,732; Aug. 3; Gaz. vol. 217; p. 90.
- Calculating-machine. J. C. Wahl. No. 1,148,733; Aug. 3; Gaz. vol. 217; p. 90.
- Calculating-machine. H. A. Wiberg. No. 1,154,150; Sept. 21; Gaz. vol. 218; p. 701.
- Calculating-machine. C. V. Wilgus. No. 1,133,596; Mar. 30; Gaz. vol. 212; p. 1486.
- Calculating-machine. C. V. Wilgus. No. 1,150,916; Aug. 24; Gaz. vol. 217; p. 1084.
- Calculating-machine totalizer. T. D. Crist and G. H. Spitzli. No. 1,158,641; Nov. 2; Gaz. vol. 220; p. 82.
- Calculating-machines and the like, Check-table and keyboard-cover for. F. C. Rinsche. No. 1,159,339; Nov. 2; Gaz. vol. 220; p. 823.
- Calculating-machines, Carriage-shifting mechanism for. O. Thieme. No. 1,153,354; Sept. 14; Gaz. vol. 218; p. 389.
- Calculating-machines, Carrying mechanism for. F. Trinks. No. 1,134,780; Apr. 6; Gaz. vol. 213; p. 255.
- Calculating-machines, Clearing and transfer mechanism for. A. J. Meier, W. L. Swift, and E. L. Reller. No. 1,160,742; Nov. 16; Gaz. vol. 220; p. 908.
- Calculating-machines, Decimal mechanism for. W. H. Brown. No. 1,160,372; Nov. 16; Gaz. vol. 220; p. 774.
- Calculating-machines, Duplicating attachment for. E. F. Mumm. No. 1,157,635; Oct. 19; Gaz. vol. 219; p. 859.
- Calculating-machines, Electric drive for. N. W. Perkins, Jr. No. 1,136,165; Apr. 20; Gaz. vol. 213; p. 819.
- Calculating-machines, Paper-feed and platen-operating mechanism for. A. J. Meier, W. L. Swift, and E. L. Reller. No. 1,134,694; Apr. 6; Gaz. vol. 213; p. 223.
- Calculating-machines, Tabulating mechanism for. O. Thieme. No. 1,130,639; Mar. 2; Gaz. vol. 212; p. 69.
- Calculating mechanism. F. L. Fuller. No. 1,151,677; Aug. 31; Gaz. vol. 217; p. 1388.
- Calculation and printing the results of said calculations, Machine for. H. Ellis. No. 1,136,321; Apr. 20; Gaz. vol. 213; p. 874.
- Calculation of interest and similar values, Machine for the. V. Bernovits. No. 1,145,179; July 6; Gaz. vol. 216; p. 71.
- Calculator. C. F. Backstrand and C. M. Hoag. No. 1,157,609; Oct. 19; Gaz. vol. 219; p. 851.
- Calculator. C. H. Duffy. No. 1,161,381; Nov. 23; Gaz. vol. 220; p. 1181.
- Calculator. G. M. Fritz. No. 1,156,770; Oct. 12; Gaz. vol. 219; p. 528.
- Calculator. C. A. Meilicke. No. 1,140,838; May 25; Gaz. vol. 214; p. 1202.
- Calculator. C. Musgrove. No. 1,127,492; Feb. 9; Gaz. vol. 211; p. 332.
- Calculator, Proportion-. M. Cashmore. No. 1,163,392; Dec. 7; Gaz. vol. 221; p. 230.
- Calculator, Tabular. A. W. Hoffman. No. 1,139,287; May 11; Gaz. vol. 214; p. 587.
- Calculators, Roll-holder for. W. R. De Camp. No. 1,158,453; Nov. 2; Gaz. vol. 220; p. 15.
- Calculators, Roll-holder for. J. C. Lotterhand. No. 1,158,519; Nov. 2; Gaz. vol. 220; p. 39.
- Calendar. E. V. Heaford. No. 1,162,606; Nov. 30; Gaz. vol. 220; p. 1648.
- Calendar. P. S. Kerr. No. 1,148,904; Aug. 3; Gaz. vol. 217; p. 149.
- Calendar. W. E. Ludlow. No. 1,124,926; Jan. 12; Gaz. vol. 210; p. 649.
- Calendar. J. M. Markham. No. 1,154,997; Sept. 28; Gaz. vol. 218; p. 1019.
- Calendar. H. E. Shedd. No. 1,158,317; Oct. 26; Gaz. vol. 219; p. 1165.
- Calendar and indicator, Perpetual. J. F. Dodd. No. 1,163,325; Dec. 7; Gaz. vol. 221; p. 206.
- Calendar, Desk-. R. M. Vick. No. 1,159,881; Nov. 9; Gaz. vol. 220; p. 550.
- Calendar, Desk-pad. I. Wexler. No. 1,129,931; Mar. 2; Gaz. vol. 212; p. 34.
- Calendar, Memorandum-. J. Bossart. No. 1,139,159; May 11; Gaz. vol. 214; p. 545.
- Calendar, Pencil-. C. M. Myers and J. A. Terhorst. No. 1,137,273; Apr. 27; Gaz. vol. 213; p. 1253.
- Calendar, Perpetual. R. 'R' Debacher. No. 1,164,266; Dec. 14; Gaz. vol. 221; p. 579.
- Calendar, Perpetual. R. 'R' Debacher. No. 1,164,267; Dec. 14; Gaz. vol. 221; p. 580.
- Calendar-cutter, Circular. F. W. Kremer. No. 1,130,909; Mar. 9; Gaz. vol. 212; p. 406.
- Calendar-rolls, Protector for. W. S. Horner. No. 1,161,676; Nov. 23; Gaz. vol. 220; p. 1282.
- Calendering-machine. J. H. Whitehouse. No. 1,123,968; Jan. 5; Gaz. vol. 210; p. 261.
- Calendering-machines, Doctor for. T. E. Warren. No. 1,144,802; June 29; Gaz. vol. 215; p. 1426.
- Caliper-gage. M. Berthold. No. 1,127,955; Feb. 9; Gaz. vol. 211; p. 495.
- Caliper, Micrometer. H. A. Rebelski. No. 1,155,440; Oct. 5; Gaz. vol. 219; p. 40.
- Caliper-register. W. J. Taylor. No. 1,163,794; Dec. 14; Gaz. vol. 221; p. 417.
- Calipers. A. V. Espinal. No. 1,131,351; Mar. 9; Gaz. vol. 212; p. 557.
- Calipers. M. L. Lockhart. No. 1,152,191; Aug. 31; Gaz. vol. 217; p. 1567.
- Calipers. J. A. Miller. No. 1,137,885; May 4; Gaz. vol. 214; p. 56.
- Calipers. G. H. Nasstrom. No. 1,146,439; July 13; Gaz. vol. 216; p. 533.
- Calipers. C. Roth. No. 1,156,100; Oct. 12; Gaz. vol. 219; p. 296.
- Calipers. W. Schramm. No. 1,145,852; July 6; Gaz. vol. 216; p. 307.
- Calipers. E. J. Stein. No. 1,163,278; Dec. 7; Gaz. vol. 221; p. 190.
- Calipers, Gear-teeth. T. Kopinski. No. 1,156,694; Oct. 12; Gaz. vol. 219; p. 502.
- Calipers, Micrometer. C. Reschke. No. 1,140,611; May 25; Gaz. vol. 214; p. 1126.
- Calipers, Micrometer. F. E. Valois. No. 1,144,623; June 29; Gaz. vol. 215; p. 1363.
- Calipers, Ratchet extension and protector for micrometer. F. Wilcox. No. 1,143,007; June 15; Gaz. vol. 215; p. 750.
- Calipers, scribing-blocks, and the like, Indicator for use with. J. H. Grant. No. 1,129,289; Feb. 23; Gaz. vol. 211; p. 1043.
- Calk, Emergency-. S. H. Roberts. No. 1,128,627; Feb. 16; Gaz. vol. 211; p. 776.
- Calking-machine. W. R. Jeavons and A. R. Whittaker. No. 1,152,513; Sept. 7; Gaz. vol. 218; p. 48.
- Call-box. A. A. Clokey. No. 1,164,069; Dec. 14; Gaz. vol. 221; p. 513.
- Call-box. P. A. P. Davis. No. 1,148,484; July 27; Gaz. vol. 216; p. 1297.
- Call-box. C. S. Rboads, Jr. No. 1,137,717; Apr. 27; Gaz. vol. 213; p. 1405.
- Call device, Selective. H. O. Rugh. No. 1,136,838; Apr. 20; Gaz. vol. 213; p. 1059.
- Call-distributing system. H. P. Clausen. No. 1,136,508; Apr. 20; Gaz. vol. 213; p. 942.
- Call-distributing system. C. S. Winston. No. 1,144,084; June 22; Gaz. vol. 215; p. 1148.

Alphabetical list of inventions—Continued.

- Call-distributing system, Automatic. J. G. Roberts. No. 1,163,953; Dec. 14; Gaz. vol. 221; p. 472.
- Call-distributing system, Manual. J. H. Levis, Jr. (Re-issue.) No. 13,890; Mar. 9; Gaz. vol. 212; p. 663.
- Call-registering mechanism. A. F. Dixon. No. 1,143,367; June 15; Gaz. vol. 215; p. 877.
- Call systems, Selective controller for vehicle. J. H. Kilegil. No. 1,160,416; Nov. 16; Gaz. vol. 220; p. 789.
- Calling apparatus, Selective. E. B. Craft and G. Brown. No. 1,140,120; May 18; Gaz. vol. 214; p. 919.
- Calling device. O. F. Forsberg. No. 1,161,854; Nov. 30; Gaz. vol. 220; p. 1390.
- Calling device. J. L. McQuarrie. No. 1,148,787; Aug. 3; Gaz. vol. 217; p. 110.
- Calling device, Operator's. W. Kaisling. No. 1,154,250; Sept. 21; Gaz. vol. 218; p. 736.
- Caloric engine. E. F. Engel and L. Anderson. No. 1,128,860; Feb. 16; Gaz. vol. 211; p. 856.
- Calorific apparatus. W. C. Hood. No. 1,148,840; Aug. 3; Gaz. vol. 217; p. 128.
- Calorimeter. H. L. Doherty. No. 1,150,836; Aug. 17; Gaz. vol. 217; p. 999.
- Calorimeter. C. E. Lucke. No. 1,136,884; Apr. 20; Gaz. vol. 213; p. 1074.
- Calorimeter. S. W. Parr. No. 1,136,360; Apr. 20; Gaz. vol. 213; p. 889.
- Calorimeter. J. F. Simmance and J. Abady. No. 1,143,790; June 22; Gaz. vol. 215; p. 1045.
- Calorimetric apparatus. S. W. Parr. No. 1,136,359; Apr. 20; Gaz. vol. 213; p. 888.
- Cam. C. M. Spencer. No. 1,146,035; July 13; Gaz. vol. 216; p. 392.
- Cam, Adjustable. W. S. Henry. No. 1,162,693; Nov. 30; Gaz. vol. 220; p. 1676.
- Cam-cutting device. R. C. Mitchell. No. 1,165,617; Dec. 28; Gaz. vol. 221; p. 1132.
- Cam device, Controller. C. F. Street. No. 1,141,503; June 1; Gaz. vol. 215; p. 149.
- Cam device, Controller. C. F. Street. No. 1,141,504; June 1; Gaz. vol. 215; p. 149.
- Cam device, Controller. C. F. Street. No. 1,145,337; July 6; Gaz. vol. 216; p. 125.
- Cam mechanism. J. Selligman. No. 1,166,089; Dec. 28; Gaz. vol. 221; p. 1296.
- Cam-movement. H. O. Carleton and E. W. Nelson. No. 1,152,600; Sept. 7; Gaz. vol. 218; p. 81.
- Cam-operating mechanism, Adjustable. E. Woerner. No. 1,147,910; July 27; Gaz. vol. 216; p. 1094.
- Cam-shaft drive. E. Bugatti. No. 1,124,107; Jan. 5; Gaz. vol. 210; p. 308.
- Cams, Tool for laying out. A. H. Simons. No. 1,133,585; Mar. 30; Gaz. vol. 212; p. 1482.
- Camera. J. W. Berwick. No. 1,149,493; Aug. 10; Gaz. vol. 217; p. 460.
- Camera. R. H. Broderick. No. 1,129,448; Feb. 23; Gaz. vol. 211; p. 1100.
- Camera. S. Brown. No. 1,160,136; Nov. 16; Gaz. vol. 220; p. 693.
- Camera. F. W. Calden. No. 1,134,725; Apr. 6; Gaz. vol. 213; p. 235.
- Camera. A. E. Chase and C. A. Briney. No. 1,137,185; Apr. 27; Gaz. vol. 213; p. 1220.
- Camera. L. L. Clarke. No. 1,132,070; Mar. 16; Gaz. vol. 212; p. 848.
- Camera. J. C. Drake. No. 1,127,870; Feb. 9; Gaz. vol. 211; p. 464.
- Camera. C. B. and C. W. Gartrell. No. 1,159,580; Nov. 9; Gaz. vol. 220; p. 441.
- Camera. H. W. Johnson. No. 1,156,362; Oct. 12; Gaz. vol. 219; p. 385.
- Camera. T. Kajiwara. No. 1,153,392; Sept. 14; Gaz. vol. 218; p. 402.
- Camera. A. F. Kellogg. No. 1,162,240; Nov. 30; Gaz. vol. 220; p. 1525.
- Camera. A. F. Kellogg. No. 1,165,181; Dec. 21; Gaz. vol. 221; p. 942.
- Camera. L. F. Leonhardt. No. 1,148,911; Aug. 3; Gaz. vol. 217; p. 151.
- Camera. I. V. Morrell. No. 1,142,904; June 15; Gaz. vol. 215; p. 713.
- Camera. O. E. Romare. No. 1,165,129; Dec. 21; Gaz. vol. 221; p. 925.
- Camera. E. F. Stratton. No. 1,148,127; July 27; Gaz. vol. 216; p. 1173.
- Camera. W. Swank. No. 1,133,891; Mar. 30; Gaz. vol. 212; p. 1592.
- Camera. J. H. Trumbull. No. 1,146,201; July 13; Gaz. vol. 216; p. 480.
- Camera. K. J. Van Sickle and F. G. Trulan. No. 1,144,267; June 22; Gaz. vol. 215; p. 1214.
- Camera and projecting device, Moving-picture. J. L. Roop. No. 1,133,580; Mar. 30; Gaz. vol. 212; p. 1480.
- Camera attachment. R. Bowen. No. 1,158,025; Oct. 26; Gaz. vol. 219; p. 1062.
- Camera attachment. W. E. Mulhollan. No. 1,131,410; Mar. 9; Gaz. vol. 212; p. 578.
- Camera attachment. J. A. Norton. No. 1,149,676; Aug. 10; Gaz. vol. 217; p. 530.
- Camera attachment. H. Whitaker. No. 1,148,346; July 27; Gaz. vol. 216; p. 1251.
- Camera, Automatic-focusing. J. Beck. No. 1,142,295; June 8; Gaz. vol. 215; p. 461.
- Camera-back fastener. J. Goddard and W. S. Hutchings. No. 1,151,781; Aug. 31; Gaz. vol. 217; p. 1425.
- Camera back, Photographic. R. Kroedel and C. F. Speidel. No. 1,144,140; June 22; Gaz. vol. 215; p. 1170.
- Camera bulb or contact-release, Automatic mechanism for operating. D. C. Wiseley. No. 1,155,981; Oct. 5; Gaz. vol. 219; p. 227.
- Camera, Cinematograph. T. E. C. Wheeler. No. 1,163,493; Dec. 7; Gaz. vol. 221; p. 264.
- Camera, Copying or enlarging. J. Becker. No. 1,126,352; Jan. 26; Gaz. vol. 210; p. 1229.
- Camera, Copying or enlarging. J. Becker. No. 1,126,353; Jan. 26; Gaz. vol. 210; p. 1229.
- Camera, Dry-plate. W. S. Benson. No. 1,127,164; Feb. 2; Gaz. vol. 211; p. 176.
- Camera, Enlarging. A. L. Gates. No. 1,155,142; Sept. 28; Gaz. vol. 218; p. 1071.
- Camera exposure device. J. S. Kaufman. No. 1,164,526; Dec. 14; Gaz. vol. 221; p. 673.
- Camera, Film. H. Fisher. No. 1,129,564; Feb. 23; Gaz. vol. 211; p. 1140.
- Camera, Film-pack. C. Bornmann. No. 1,154,285; Sept. 21; Gaz. vol. 218; p. 748.
- Camera-finder. C. Bornmann. No. 1,152,782; Sept. 7; Gaz. vol. 218; p. 147.
- Camera-finder. S. Brown. No. 1,154,966; Sept. 28; Gaz. vol. 218; p. 1009.
- Camera-focusing device. J. E. Woodbury. No. 1,166,032; Dec. 28; Gaz. vol. 221; p. 1276.
- Camera-focusing hood. J. Freud. No. 1,143,045; June 15; Gaz. vol. 215; p. 762.
- Camera-focusing hood. R. Matsuda. No. 1,141,970; June 8; Gaz. vol. 215; p. 345.
- Camera, Folding. F. Colonnese. No. 1,160,045; Nov. 9; Gaz. vol. 220; p. 606.
- Camera, Folding. F. C. Hesse. No. 1,123,740; Jan. 5; Gaz. vol. 210; p. 185.
- Camera, Folding. B. J. Nasief. No. 1,154,046; Sept. 21; Gaz. vol. 218; p. 666.
- Camera for color photography. R. Berthon and M. Audibert. No. 1,126,689; Feb. 2; Gaz. vol. 211; p. 7.
- Camera for taking pictures. P. Dietz. No. 1,150,814; Aug. 17; Gaz. vol. 217; p. 991.
- Camera-front. W. F. Folmer. No. 1,134,522; Apr. 6; Gaz. vol. 213; p. 160.
- Camera lens and diaphragm adjusting mechanism. J. Tessier. No. 1,152,238; Aug. 31; Gaz. vol. 217; p. 1583.
- Camera, Motion-picture. H. Casler. No. 1,151,566; Aug. 31; Gaz. vol. 217; p. 1351.
- Camera, Motion-picture. C. Van Deventer. No. 1,162,419; Nov. 30; Gaz. vol. 220; p. 1586.
- Camera, Moving-picture. J. A. Ramsey and C. P. Hulburd. No. 1,159,796; Nov. 9; Gaz. vol. 220; p. 520.
- Camera, Multiplying. J. W. Anderson. No. 1,158,019; Oct. 26; Gaz. vol. 219; p. 1060.
- Camera, Panoramic photographic. J. Becker. No. 1,136,761; Apr. 20; Gaz. vol. 213; p. 1032.
- Camera, Photo-engraving. F. V. Walsh and C. M. Reed. No. 1,162,956; Dec. 7; Gaz. vol. 221; p. 77.
- Camera, Photographic. J. A. De Bauzeuk. No. 1,130,576; Mar. 2; Gaz. vol. 212; p. 258.
- Camera, Photographic. W. F. Folmer. No. 1,139,022; May 11; Gaz. vol. 214; p. 497.
- Camera, Photographic. J. Goddard and W. S. Hutchings. No. 1,129,665; Feb. 23; Gaz. vol. 211; p. 1174.
- Camera, Photographic. F. E. Ives. No. 1,153,229; Sept. 14; Gaz. vol. 218; p. 343.
- Camera, Photographic. D. James and W. A. Peters. No. 1,141,091; May 25; Gaz. vol. 214; p. 1290.
- Camera, Photographic. A. N. Pierman. No. 1,124,313; Jan. 12; Gaz. vol. 210; p. 430.
- Camera, Photographic. A. Voris. No. 1,146,218; July 13; Gaz. vol. 216; p. 456.
- Camera, Photographic. W. A. Warman. No. 1,146,293; July 13; Gaz. vol. 216; p. 481.
- Camera, Photographic. R. L. Watkins. No. 1,161,556; Nov. 23; Gaz. vol. 220; p. 1241.
- Camera, Printing. J. Trimbach. No. 1,159,296; Nov. 2; Gaz. vol. 220; p. 308.
- Camera, Printing. J. Trimbach. No. 1,162,666; Nov. 30; Gaz. vol. 220; p. 1667.
- Camera provided with automatic fluid-treating mechanism. F. E. Oiler. No. 1,158,386; Oct. 26; Gaz. vol. 219; p. 1189.
- Cameras, Multiple-exposure attachment for. C. K. Pugh. No. 1,165,710; Dec. 28; Gaz. vol. 221; p. 1166.
- Camera, Reducing. G. Dietz. No. 1,133,369; Mar. 30; Gaz. vol. 212; p. 1404.
- Camera-shutter. J. Linder. No. 1,129,303; Feb. 23; Gaz. vol. 211; p. 1049.
- Camera-shutter. W. R. Savage. No. 1,150,544; Aug. 17; Gaz. vol. 217; p. 898.
- Camera-shutter. W. C. Sullender. No. 1,153,141; Sept. 7; Gaz. vol. 218; p. 273.
- Camera-shutter operator, Time-controlled. A. G. F. Kurowski and O. A. Martini. No. 1,151,196; Aug. 24; Gaz. vol. 217; p. 1180.
- Camera-shutter releaser. F. Huppertz. No. 1,149,832; Aug. 10; Gaz. vol. 217; p. 585.
- Camera-shutters, Trip mechanism for. J. M. Keil. No. 1,128,790; Feb. 16; Gaz. vol. 211; p. 831.

Alphabetical list of inventions—Continued.

- Camera-stand. H. Rottenburg. No. 1,138,417; May 4; Gaz. vol. 214; p. 246.
- Camera-support. J. H. Klenck. No. 1,153,320; Sept. 14; Gaz. vol. 218; p. 375.
- Camera-support. J. H. Klenck. No. 1,156,296; Oct. 12; Gaz. vol. 219; p. 360.
- Camera view-finder. E. A. Bradley. No. 1,151,157; Aug. 24; Gaz. vol. 217; p. 1167.
- Cameras, Automatic releasing mechanism for. H. Furukawa. No. 1,144,301; June 22; Gaz. vol. 215; p. 1226.
- Cameras, Automatic shutter-operating device for. B. L. Simpson. No. 1,146,964; July 20; Gaz. vol. 216; p. 736.
- Cameras, Combined finding and focusing device for. C. E. Akeley. No. 1,159,731; Nov. 9; Gaz. vol. 220; p. 496.
- Cameras, Dark slide for photographic. H. C. Andrews. No. 1,141,750; June 1; Gaz. vol. 215; p. 234.
- Cameras, Date-recording attachment for. C. C. Finn. No. 1,146,755; July 13; Gaz. vol. 216; p. 643.
- Cameras, Device for waterproofing. W. S. Stearns. No. 1,156,441; Oct. 12; Gaz. vol. 219; p. 413.
- Cameras, Direct-view finder for. S. Brown. No. 1,140,108; May 18; Gaz. vol. 214; p. 915.
- Cameras, Direct-view finder for folding. S. Brown. No. 1,151,564; Aug. 31; Gaz. vol. 217; p. 1350.
- Cameras, Film-box for motion-picture. C. E. Akeley. No. 1,159,732; Nov. 9; Gaz. vol. 220; p. 496.
- Cameras, Finding and focusing device for motion-picture. C. E. Akeley. No. 1,159,733; Nov. 9; Gaz. vol. 220; p. 496.
- Cameras, Focusing mechanism for. E. C. Allen. No. 1,146,837; July 20; Gaz. vol. 216; p. 691.
- Cameras, Lens-carriage for photographic. W. A. Riddell and R. Kroedel. No. 1,143,782; June 22; Gaz. vol. 215; p. 1042.
- Cameras, Panorama device for motion-picture. C. E. Akeley. No. 1,159,734; Nov. 9; Gaz. vol. 220; p. 497.
- Cameras, Safety shutter-controller for. W. L. Pollock, Jr. No. 1,131,160; Mar. 9; Gaz. vol. 212; p. 491.
- Cameras, Shutter for moving-picture. G. W. Bingham. No. 1,129,327; Feb. 23; Gaz. vol. 211; p. 1056.
- Cameras, Tripod for. W. E. Burnell. No. 1,152,071; Aug. 31; Gaz. vol. 217; p. 1526.
- Cameras, Tripod stand for panoramic cinematographic. A. Debre. No. 1,126,720; Feb. 2; Gaz. vol. 211; p. 18.
- Cameras, Vignetter for. S. E. Moine. No. 1,155,080; Sept. 28; Gaz. vol. 218; p. 1049.
- Cameras, Web-guide for photographic. J. S. Greene. No. 1,153,843; Sept. 14; Gaz. vol. 218; p. 562.
- Cameras, Winding-key for roll-holding. J. Goddard. No. 1,133,128; Mar. 23; Gaz. vol. 212; p. 1283.
- Camp equipment. T. F. Wilson. No. 1,158,356; Oct. 26; Gaz. vol. 219; p. 1177.
- Camp kit. J. Lajcak. No. 1,145,691; July 6; Gaz. vol. 216; p. 250.
- Camp-stool cane. W. Jasinski. No. 1,145,994; July 13; Gaz. vol. 216; p. 376.
- Camp-table. J. A. Thornton and W. A. Settle. No. 1,155,971; Oct. 5; Gaz. vol. 219; p. 224.
- Camp-table, Folding. J. Zelenák. No. 1,147,353; July 20; Gaz. vol. 216; p. 871.
- Can. *See*—
- | | |
|--------------------------------|--------------------------|
| Ash and garbage can. | Milk-can. |
| Cigar-can. | Oil-can. |
| Containing and dispensing can. | Paper can. |
| Cylindrical can. | Paper-jacketed can. |
| Dispensing-can. | Pouring-spout can. |
| Display-can. | Preserving and like can. |
| Friction-top can. | Sample-can. |
| Garbage-can. | Sheet-metal can. |
| Gasolene or like can. | Shipping-can. |
| Ice-can. | Tobacco-can. |
| | Vacuum-can. |
- Can. E. E. Hall. No. 1,154,627; Sept. 28; Gaz. vol. 218; p. 894.
- Can. E. Truxall. No. 1,144,159; June 22; Gaz. vol. 215; p. 1176.
- Can and closure therefor. A. R. Svenson. No. 1,160,010; Nov. 9; Gaz. vol. 220; p. 595.
- Can and stopper therefor. L. H. Brown. No. 1,124,999; Jan. 12; Gaz. vol. 210; p. 676.
- Can attachment. H. C. Merker. No. 1,142,601; June 8; Gaz. vol. 215; p. 569.
- Can bodies and heads, Machine for uniting. J. A. Gray. (Reissue.) No. 13,874; Feb. 2; Gaz. vol. 211; p. 250.
- Can-bodies, Machine for making cylindrical. L. C. Sharp. No. 1,165,721; Dec. 28; Gaz. vol. 221; p. 1170.
- Can-body. F. P. McColl. No. 1,160,183; Nov. 16; Gaz. vol. 220; p. 709.
- Can-body. J. M. Young. No. 1,157,278; Oct. 19; Gaz. vol. 219; p. 739.
- Can-body blank. J. M. Young. No. 1,124,682; Jan. 12; Gaz. vol. 210; p. 564.
- Can-body blanks, Feeding apparatus for. E. W. Conradi. No. 1,129,456; Feb. 23; Gaz. vol. 211; p. 1102.
- Can-body-compressing mechanism. J. A. Gray. No. 1,140,676; May 25; Gaz. vol. 214; p. 1147.
- Can-body-feeding mechanism. A. M. Augensen. No. 1,134,028; Mar. 30; Gaz. vol. 212; p. 1635.
- Can-body-flanging machine. W. F. Butler. No. 1,161,923; Nov. 30; Gaz. vol. 220; p. 1415.
- Can-body-flanging machine. H. L. Guenther. No. 1,144,839; June 29; Gaz. vol. 215; p. 1438.
- Can-body-flanging means. M. Karp. No. 1,162,930; Dec. 7; Gaz. vol. 221; p. 68.
- Can-body forming and soldering machine. L. C. Sharp. No. 1,153,454; Sept. 14; Gaz. vol. 218; p. 425.
- Can-body-forming machines, Automatic stop-motion for. C. W. Graham. No. 1,154,244; Sept. 21; Gaz. vol. 218; p. 733.
- Can-body-making machine. P. Kruse. No. 1,129,302; Feb. 23; Gaz. vol. 211; p. 1048.
- Can-body-making machine. E. L. Perry. No. 1,143,065; June 15; Gaz. vol. 215; p. 770.
- Can-body re-former. J. A. Gray. No. 1,152,312; Aug. 31; Gaz. vol. 217; p. 1608.
- Can-body support. F. Rudolph. No. 1,130,636; Mar. 2; Gaz. vol. 212; p. 278.
- Can-bumping presses, Expanding device for. R. L. Drake. No. 1,164,582; Dec. 14; Gaz. vol. 221; p. 689.
- Can-cap dropper. C. E. Forry. No. 1,128,967; Feb. 16; Gaz. vol. 211; p. 896.
- Can-cap with vent-shield. J. W. Nichols. No. 1,141,973; June 8; Gaz. vol. 215; p. 347.
- Can-caps, Applying vent-shields to. J. W. Nichols. No. 1,126,838; Feb. 2; Gaz. vol. 211; p. 62.
- Can capping and double-seaming tool. A. D. Sumner and R. O. Wilson. No. 1,124,553; Jan. 12; Gaz. vol. 210; p. 517.
- Can-capping machine. E. S. Hugunine. No. 1,142,564; June 8; Gaz. vol. 215; p. 556.
- Can-capping machine. E. M. Lang, Jr. No. 1,159,236; Nov. 2; Gaz. vol. 220; p. 288.
- Can case, Removable braced shipping. G. J. Record. No. 1,154,885; Sept. 28; Gaz. vol. 218; p. 980.
- Can casing or boxing machine. F. W. Weld, Jr. No. 1,152,997; Sept. 7; Gaz. vol. 218; p. 227.
- Can-caster. S. B. Brown. No. 1,130,684; Mar. 2; Gaz. vol. 212; p. 295.
- Can-closing machine. I. F. Warne. No. 1,132,291; Mar. 16; Gaz. vol. 212; p. 930.
- Can-closing machine. I. F. Warne. No. 1,151,840; Aug. 31; Gaz. vol. 217; p. 1446.
- Can-closing machine. J. P. Wing. No. 1,132,295; Mar. 16; Gaz. vol. 212; p. 931.
- Can-closure. B. Heller. No. 1,156,777; Oct. 12; Gaz. vol. 219; p. 531.
- Can-closure. D. B. Tamagno. No. 1,140,295; May 18; Gaz. vol. 214; p. 977.
- Can-closure. D. B. Tamagno. No. 1,164,144; Dec. 14; Gaz. vol. 221; p. 539.
- Can closure, Milk-. O. Boley. No. 1,163,804; Dec. 14; Gaz. vol. 221; p. 421.
- Can-closure, Ventilated. O. P. L. Olsen. No. 1,128,033; Feb. 9; Gaz. vol. 211; p. 521.
- Can-container. F. G. Dickerson. No. 1,161,631; Nov. 23; Gaz. vol. 220; p. 1265.
- Can container and perforator, Combined. B. A. Lange. No. 1,149,840; Aug. 10; Gaz. vol. 217; p. 588.
- Can container and server, Milk-. T. J. Davis. No. 1,165,229; Dec. 21; Gaz. vol. 221; p. 959.
- Can container and server, Milk-. T. Davis and A. Reininger. No. 1,142,940; June 15; Gaz. vol. 215; p. 726.
- Can cover, Ash-. C. S. Waldo, Jr. No. 1,161,089; Nov. 23; Gaz. vol. 220; p. 1074.
- Can cover, Garbage-. F. J. Clark. No. 1,153,288; Sept. 14; Gaz. vol. 218; p. 364.
- Can-cover tucking and fusing machine. W. E. Taylor. No. 1,152,450; Sept. 7; Gaz. vol. 218; p. 24.
- Can-covers, Apparatus for cutting and depositing ring-liners onto the flanges of. J. M. Young. No. 1,135,244; Apr. 13; Gaz. vol. 213; p. 455.
- Can-cutting machine. O. U. Peacott. No. 1,155,267; Sept. 28; Gaz. vol. 218; p. 1111.
- Can end. W. Ayres. No. 1,136,993; Apr. 27; Gaz. vol. 213; p. 1150.
- Can-end and gasket assembling machine. C. W. Graham. No. 1,154,245; Sept. 21; Gaz. vol. 218; p. 734.
- Can-end-feed mechanism. J. A. Gray. No. 1,162,157; Nov. 30; Gaz. vol. 220; p. 1497.
- Can-end-feed mechanism, Automatic. J. A. Gray. No. 1,162,156; Nov. 30; Gaz. vol. 220; p. 1496.
- Can-end-feeding device. A. L. Kronquest. No. 1,148,175; July 27; Gaz. vol. 216; p. 1190.
- Can ends, Apparatus for cutting and applying ring-liners to. J. A. Gray. No. 1,162,234; Nov. 30; Gaz. vol. 220; p. 1523.
- Can ends, Apparatus for cutting and applying ring-liners to the flange of. A. Johnson. No. 1,162,169; Nov. 30; Gaz. vol. 220; p. 1500.
- Can-filling machine. C. T. Small. No. 1,154,665; Sept. 28; Gaz. vol. 218; p. 908.
- Can-filling machine. H. C. Smart. No. 1,138,511; May 4; Gaz. vol. 214; p. 276.
- Can-filling machine. F. M. Wright. No. 1,151,146; Aug. 24; Gaz. vol. 217; p. 1162.
- Can-filling machine, Automatic. C. A. Larson. No. 1,141,561; June 1; Gaz. vol. 215; p. 169.
- Can-flange straightener. F. Rudolph. No. 1,152,437; Sept. 7; Gaz. vol. 218; p. 19.
- Can-head-feeding machine. J. W. Dixon. No. 1,154,237; Sept. 21; Gaz. vol. 218; p. 731.

Alphabetical list of inventions—Continued.

- Can-head-flange curling and coating machine. W. F. Butler. No. 1,152,395; Sept. 7; Gaz. vol. 218; p. 5.
- Can-heads and the like, Machine for handling. O. Dempe-wolf. No. 1,126,722; Feb. 2; Gaz. vol. 211; p. 19.
- Can-heads, Automatic feed for sheet-metal. C. W. Graham. No. 1,126,194; Jan. 26; Gaz. vol. 210; p. 1173.
- Can-heads, Feed mechanism for. P. Kruse. No. 1,133,383; Mar. 30; Gaz. vol. 212; p. 1409.
- Can-heads or other disks, Automatic feeding device for. J. W. Dixon. No. 1,161,931; Nov. 30; Gaz. vol. 220; p. 1418.
- Can-heading machine. F. Bruckmann, Jr. and O. Dempe-wolf. No. 1,146,474; July 13; Gaz. vol. 216; p. 548.
- Can holder, Oil-. C. W. Beck. No. 1,158,361; Oct. 26; Gaz. vol. 219; p. 1179.
- Can lid or top. C. T. Wootten. No. 1,151,322; Aug. 24; Gaz. vol. 217; p. 1222.
- Can lids, Lock for milk-. F. Joseph. No. 1,149,981; Aug. 10; Gaz. vol. 217; p. 639.
- Can-lids, pipes, shafts, and similar objects, Coupling de-vice for. J. Kildear. No. 1,164,197; Dec. 14; Gaz. vol. 221; p. 556.
- Can liner, Ice-cream-. C. Ottosen and H. R. Wright. No. 1,146,512; July 13; Gaz. vol. 216; p. 560.
- Can-lining machine. C. H. Workman. No. 1,160,965; Nov. 16; Gaz. vol. 220; p. 986.
- Can-locking device, Milk-. L. M. Mershimer. No. 1,132,598; Mar. 23; Gaz. vol. 212; p. 1088.
- Can-making machine. J. L. Neel. No. 1,156,619; Oct. 12; Gaz. vol. 219; p. 476.
- Can-making machine. F. Westerbeck. No. 1,129,532; Feb. 23; Gaz. vol. 211; p. 1128.
- Can-opener. E. A. Arbanasin. No. 1,164,776; Dec. 21; Gaz. vol. 221; p. 799.
- Can-opener. H. M. Caswell and F. Sherer. No. 1,153,600; Sept. 14; Gaz. vol. 218; p. 477.
- Can-opener. C. E. Dodd. No. 1,164,793; Dec. 21; Gaz. vol. 221; p. 806.
- Can-opener. W. Edge and A. H. Jones. No. 1,135,571; Apr. 13; Gaz. vol. 213; p. 570.
- Can-opener. G. J. Fitzpatrick. No. 1,159,917; Nov. 9; Gaz. vol. 220; p. 564.
- Can-opener. C. Fottler. No. 1,165,864; Dec. 28; Gaz. vol. 221; p. 1218.
- Can-opener. A. J. Frogue. No. 1,128,124; Feb. 9; Gaz. vol. 211; p. 552.
- Can-opener. C. T. Harding. No. 1,125,020; Jan. 12; Gaz. vol. 210; p. 683.
- Can-opener. G. W. Hinkley, Jr., and C. J. Staib. No. 1,148,229; July 27; Gaz. vol. 216; p. 1207.
- Can-opener. C. F. Hurley. No. 1,124,449; Jan. 12; Gaz. vol. 210; p. 480.
- Can-opener. O. J. Turner. No. 1,166,022; Dec. 28; Gaz. vol. 221; p. 1272.
- Can-opener. J. P. Walsh. No. 1,131,582; Mar. 9; Gaz. vol. 212; p. 636.
- Can-opener. H. G. Wernimont. No. 1,137,175; Apr. 27; Gaz. vol. 213; p. 1216.
- Can-opener. C. H. Workman. No. 1,145,343; July 6; Gaz. vol. 216; p. 127.
- Can or receptacle. F. Wall. No. 1,157,269; Oct. 19; Gaz. vol. 219; p. 736.
- Can perforator and pourer, Milk-. D. D. Du Boé. No. 1,130,967; Mar. 9; Gaz. vol. 212; p. 425.
- Can-receptacle cover, Garbage-. E. L. Brownson. No. 1,152,286; Aug. 31; Gaz. vol. 217; p. 1599.
- Can-reshaping machine. F. A. Batchelder. No. 1,151,995; Aug. 31; Gaz. vol. 217; p. 1499.
- Can rinser and sterilizer, Cream-. H. F. Burham. No. 1,146,845; July 20; Gaz. vol. 216; p. 694.
- Can-sealer, Household. A. Bepler. No. 1,131,901; Mar. 16; Gaz. vol. 212; p. 787.
- Can-seam-fusing machine. C. W. Graham. No. 1,152,411; Sept. 7; Gaz. vol. 218; p. 10.
- Can-sifter top. J. T. Lagois. No. 1,144,213; June 22; Gaz. vol. 215; p. 1196.
- Can-sorting machine. C. E. Fogarty. No. 1,158,669; Nov. 2; Gaz. vol. 220; p. 92.
- Can-spout, Pouring. A. G. Canby. No. 1,153,998; Sept. 21; Gaz. vol. 218; p. 649.
- Can stamping or marking machine. B. H. Barthold. No. 1,140,791; May 25; Gaz. vol. 214; p. 1185.
- Can-straightening means. F. P. Sonder. No. 1,135,732; Apr. 13; Gaz. vol. 213; p. 628.
- Can support, Garbage-. K. E. Craig. No. 1,162,575; Nov. 30; Gaz. vol. 220; p. 1638.
- Can-tester. J. W. Voris and C. E. Hover. No. 1,144,081; June 22; Gaz. vol. 215; p. 1147.
- Can-tester, Two-pocket. F. Rudolph. No. 1,126,089; Jan. 26; Gaz. vol. 210; p. 1134.
- Can-testing machine, Air. E. V. Swangren and M. E. Widell. No. 1,152,449; Sept. 7; Gaz. vol. 218; p. 23.
- Can-tipping machine. E. A. Simpson. No. 1,128,273; Feb. 9; Gaz. vol. 211; p. 604.
- Can-tipping machine, Rotary. H. E. Shaw. No. 1,156,634; Oct. 12; Gaz. vol. 219; p. 482.
- Can-t. A. J. Jones. No. 1,149,524; Aug. 10; Gaz. vol. 217; p. 472.
- Can-top guiding and ejecting mechanism. F. L. Fuller. No. 1,137,750; May 4; Gaz. vol. 214; p. 10.
- Can-top-seaming machine. P. Kruse. No. 1,164,103; Dec. 14; Gaz. vol. 221; p. 525.
- Can-topping machine. F. F. Levy. No. 1,159,848; Nov. 9; Gaz. vol. 220; p. 539.
- Can-washing machine. C. Doering, Jr. No. 1,149,812; Aug. 10; Gaz. vol. 217; p. 577.
- Can-washing machine. C. Doering, Jr. No. 1,149,813; Aug. 10; Gaz. vol. 217; p. 578.
- Can-washing machine. A. H. Goodhue. No. 1,165,664; Dec. 28; Gaz. vol. 221; p. 1149.
- Can-washing machine. E. Manning. No. 1,137,345; Apr. 27; Gaz. vol. 213; p. 1280.
- Can-wrapping machine. F. H. Knapp and W. H. Leister. No. 1,135,294; Apr. 13; Gaz. vol. 213; p. 472.
- Cans and other receptacles, Stand and lid-operating means for garbage-. M. J. Tierney. No. 1,130,774; Mar. 9; Gaz. vol. 212; p. 359.
- Cans and other receptacles, Top for. F. S. Hyatt. No. 1,152,817; Sept. 7; Gaz. vol. 218; p. 161.
- Cans and the like, Portage device for ash-. G. More. No. 1,153,081; Sept. 28; Gaz. vol. 218; p. 1050.
- Cans, Automatic closure for garbage-. I. G. Marks. No. 1,148,847; June 22; Gaz. vol. 215; p. 1065.
- Cans, Delivery-spout for. C. A. Mahn. No. 1,124,495; Jan. 12; Gaz. vol. 210; p. 497.
- Cans having hermetically-sealed taggers-tin tops, Cutter-lid closure for circular. J. J. Hourigan. No. 1,149,055; Aug. 3; Gaz. vol. 217; p. 202.
- Cans, Lacquer composition for. J. G. Hodgson. No. 1,148,168; July 27; Gaz. vol. 216; p. 1187.
- Cans, Machine for fitting closure-caps to. W. Sim. No. 1,132,221; Mar. 16; Gaz. vol. 212; p. 903.
- Cans, Machine for seaming heads on. P. Kruse. No. 1,152,188; Aug. 31; Gaz. vol. 217; p. 1566.
- Cans, Manufacturing-seamed. F. Eberhard. No. 1,148,158; July 27; Gaz. vol. 216; p. 1183.
- Cans or the like, Liquid-container for use with garbage-. J. Low. No. 1,124,925; Jan. 12; Gaz. vol. 210; p. 649.
- Cans, Resiliently-attached but removable cap for oil-. A. E. Ainslie. No. 1,154,829; Sept. 28; Gaz. vol. 218; p. 963.
- Cans, Screw-cap nozzle for. C. Stollberg. No. 1,129,917; Mar. 2; Gaz. vol. 212; p. 29.
- Cans, Sealed-nozzle pouring-spout for. J. M. Hothersall. No. 1,145,896; July 13; Gaz. vol. 216; p. 341.
- Cans, Stacking. W. E. Jones, Jr. No. 1,156,690; Oct. 12; Gaz. vol. 219; p. 501.
- Cans to closing-machines, Device for feeding filled. C. H. Englar. No. 1,140,807; May 25; Gaz. vol. 214; p. 1190.
- Canning. F. Shaffer. No. 1,162,520; Nov. 30; Gaz. vol. 220; p. 1622.
- Canning apparatus. S. J. Cochran. No. 1,133,430; Mar. 30; Gaz. vol. 212; p. 1426.
- Canning apparatus. W. Lawrence and G. Scott. No. 1,132,726; Mar. 23; Gaz. vol. 212; p. 1136.
- Canning-apparatus cutting means. J. and W. F. Schlothan. No. 1,125,737; Jan. 19; Gaz. vol. 210; p. 975.
- Canning apparatus, Cutting means for. J. and W. F. Schlothan. No. 1,152,441; Sept. 7; Gaz. vol. 218; p. 21.
- Canning foods. F. Hugh. No. 1,146,709; July 13; Gaz. vol. 216; p. 627.
- Canning machine, Fish-. T. Gowen. No. 1,157,527; Oct. 19; Gaz. vol. 219; p. 826.
- Canning, Machine for treating vegetable products for. E. J. Vaudreuil. No. 1,154,675; Sept. 28; Gaz. vol. 218; p. 912.
- Canning-machine-heating apparatus. H. W. Lowe. No. 1,129,698; Feb. 23; Gaz. vol. 211; p. 1184.
- Cancelling attachment for adding-machines and the like, Check-. W. B. Rearick. No. 1,148,535; Aug. 3; Gaz. vol. 217; p. 18.
- Cancelling attachment for adding-machines and the like, Check-. W. B. Rearick. No. 1,148,536; Aug. 3; Gaz. vol. 217; p. 18.
- Cancelling device, Stamp-. J. E. Ball. No. 1,145,052; July 6; Gaz. vol. 216; p. 28.
- Cancelling device, Stamp-. G. I. Hancock. No. 1,164,811; Dec. 21; Gaz. vol. 221; p. 812.
- Cancelling machine, Stamp-. J. O. Lamoureux. No. 1,162,700; Nov. 30; Gaz. vol. 220; p. 1679.
- Cancelling-machine trip. F. G. Jahn. No. 1,134,271; Apr. 6; Gaz. vol. 213; p. 69.
- Candelabrum. D. H. Lind. No. 1,128,884; Feb. 16; Gaz. vol. 211; p. 865.
- Candelabrum. J. Markowsky. No. 1,128,169; Feb. 9; Gaz. vol. 211; p. 568.
- Candle and attachment. J. A. Rossman. No. 1,144,728; June 29; Gaz. vol. 215; p. 1400.
- Candle-holder. J. W. Warbrick. No. 1,150,405; Aug. 17; Gaz. vol. 217; p. 850.
- Candle, Paraffin. E. Burke. No. 1,125,058; Jan. 19; Gaz. vol. 210; p. 732.
- Candle-shade stand. J. B. Shipman. No. 1,123,603; Jan. 5; Gaz. vol. 210; p. 139.
- Candlestick. F. T. Gause. No. 1,152,724; Sept. 7; Gaz. vol. 218; p. 126.
- Candlestick. L. P. Nash. No. 1,138,240; May 4; Gaz. vol. 214; p. 181.
- Candlestick, Miner's. J. Hansen. No. 1,163,912; Dec. 14; Gaz. vol. 221; p. 456.
- Candlestick, Miner's. T. D. Lance. No. 1,131,528; Mar. 9; Gaz. vol. 212; p. 619.
- Candy-box. L. W. Wheelock. No. 1,142,131; June 8; Gaz. vol. 215; p. 405.

- Candy-coating machine. E. J. Momenec. No. 1,166,240; Dec. 28; Gaz. vol. 221; p. 1355.
- Candy-coating machines, Feed mechanism for. J. Conte. No. 1,138,356; May 4; Gaz. vol. 214; p. 224.
- Candy-cooling apparatus. D. Humphrey. No. 1,132,936; Mar. 23; Gaz. vol. 212; p. 1213.
- Candy cutter, Stick-. A. E. Dempsey. No. 1,162,986; Dec. 7; Gaz. vol. 221; p. 87.
- Candy-drying machine. J. W. Greer. No. 1,147,939; July 27; Gaz. vol. 216; p. 1104.
- Candy machine, Honeycomb-. F. H. Woolf. No. 1,143,564; June 15; Gaz. vol. 215; p. 944.
- Candy-making. E. Weber. No. 1,133,205; Mar. 23; Gaz. vol. 212; p. 1311.
- Candy-making apparatus. R. J. Cleeland. No. 1,145,119; July 6; Gaz. vol. 216; p. 51.
- Candy-making apparatus. W. E. Schrafft, F. W. Blake, and G. A. Lorentzen. No. 1,123,934; Jan. 5; Gaz. vol. 210; p. 250.
- Candy-making machine. E. R. Knott. No. 1,138,576; May 4; Gaz. vol. 214; p. 297.
- Candy-making machine. W. B. Laskey. No. 1,142,893; June 15; Gaz. vol. 215; p. 709.
- Candy-making machine. R. J. Savage and C. E. Shultz. No. 1,123,933; Jan. 5; Gaz. vol. 210; p. 250.
- Candy-making machine. R. J. Savage and C. E. Shultz. No. 1,162,811; Dec. 7; Gaz. vol. 221; p. 28.
- Candy-making machine. P. H. Schlueter. No. 1,151,295; Aug. 24; Gaz. vol. 217; p. 1213.
- Candy-pulling machine. H. S. Brewington. No. 1,130,683; Mar. 2; Gaz. vol. 212; p. 294.
- Candy-pulling machine. M. E. W. W., A. E., and H. L. Buhse. No. 1,132,556; Mar. 23; Gaz. vol. 212; p. 1072.
- Candy-pulling machine. E. F. McCarthy and E. W. Wilson. No. 1,139,786; May 18; Gaz. vol. 214; p. 799.
- Candy-pulling machine. H. C. Sample. No. 1,162,711; Nov. 30; Gaz. vol. 220; p. 1683.
- Candy-ribbon-crimping machine. E. S. Klester. No. 1,162,616; Nov. 30; Gaz. vol. 220; p. 1651.
- Candy-wrapping machine. E. C. Thorschmidt. No. 1,163,709; Dec. 14; Gaz. vol. 221; p. 386.
- Cane and like mill returner-bar, Sugar-. A. M. Lang. No. 1,156,012; Oct. 5; Gaz. vol. 219; p. 238.
- Cane and similar saccharine material, Extraction of juice from sugar-. O. Mengelbier. No. 1,141,572; June 1; Gaz. vol. 215; p. 174.
- Cane-mill roller, Sugar-. R. R. Hind and G. F. Renton. No. 1,144,597; June 29; Gaz. vol. 215; p. 1354.
- Cane mill, Sugar-. J. Ogg. No. 1,124,643; Jan. 12; Gaz. vol. 210; p. 551.
- Cane mills, Grooving for rollers of sugar-. J. Ogg. No. 1,145,844; July 6; Gaz. vol. 216; p. 304.
- Cane mills, Pressure-regulating device for the rollers of sugar-. H. W. Aitken. No. 1,149,802; Aug. 10; Gaz. vol. 217; p. 573.
- Cane-stripper. F. Doze. No. 1,139,756; May 18; Gaz. vol. 214; p. 789.
- Cane, Treating sugar-. T. Lee. No. 1,155,741; Oct. 5; Gaz. vol. 219; p. 144.
- Cane, Treating sugar-. T. Lee and A. B. Monks. No. 1,153,934; Sept. 21; Gaz. vol. 218; p. 628.
- Canoe. U. R. Miller. No. 1,124,637; Jan. 12; Gaz. vol. 210; p. 548.
- Canoe motor-frame. D. McLaren. No. 1,141,196; June 1; Gaz. vol. 215; p. 37.
- Canopy. E. B. Nicholls. No. 1,143,774; June 22; Gaz. vol. 215; p. 1040.
- Canopy, Portable. A. Voorhies. No. 1,128,558; Feb. 16; Gaz. vol. 211; p. 752.
- Canvas, End-raising platform-. J. E. Brown. No. 1,123,842; Jan. 5; Gaz. vol. 210; p. 219.
- Canvas-stretcher. J. G. Holicky. No. 1,139,526; May 18; Gaz. vol. 214; p. 708.
- Caoutchouc from isoprene, Production of. A. Heinemann. No. 1,146,253; July 13; Gaz. vol. 216; p. 468.
- Caoutchouc or caoutchouc-like substances, Accelerating the vulcanization of natural or artificial. S. J. Peachey. No. 1,157,177; Oct. 19; Gaz. vol. 219; p. 702.
- Caoutchouc, Process and apparatus for purifying. H. Debaugé. No. 1,153,040; Sept. 7; Gaz. vol. 218; p. 240.
- Caoutchouc, Production of vulcanized synthetic. F. Hofmann and K. Gottlob. No. 1,130,903; Mar. 9; Gaz. vol. 212; p. 404.
- Caoutchouc substance and making same. K. Gottlob. No. 1,149,577; Aug. 10; Gaz. vol. 217; p. 491.
- Caoutchouc substance and vulcanization product thereof. F. Hofmann and K. Gottlob. No. 1,149,580; Aug. 10; Gaz. vol. 217; p. 492.
- Caoutchoucs and other colloidal matters, Purification of natural and regenerated. C. P. Bary. No. 1,136,462; Apr. 20; Gaz. vol. 213; p. 925.
- Cap. J. I. Benjamin. No. 1,145,463; July 6; Gaz. vol. 216; p. 172.
- Cap. W. S. Coppers. No. 1,156,980; Oct. 19; Gaz. vol. 219; p. 632.
- Cap. E. H. Dunn. No. 1,161,637; Nov. 23; Gaz. vol. 220; p. 1269.
- Cap. S. W. Ewer. No. 1,147,224; July 20; Gaz. vol. 216; p. 828.
- Cap. C. F. Henderson. No. 1,148,586; Aug. 3; Gaz. vol. 217; p. 37.
- Cap. M. Katcher. No. 1,153,927; Sept. 21; Gaz. vol. 218; p. 625.
- Cap. P. Levine. No. 1,144,366; June 29; Gaz. vol. 215; p. 1277.
- Cap. M. J. Novoson and J. B. Hill. No. 1,123,354; Jan. 5; Gaz. vol. 210; p. 54.
- Cap. I. Pachner. No. 1,133,056; Mar. 23; Gaz. vol. 212; p. 1259.
- Cap. W. H. Vatcher and C. H. Melcher. No. 1,155,774; Oct. 5; Gaz. vol. 219; p. 155.
- Cap and styptic-holder, Combined closure-. S. W. Caws. No. 1,144,892; June 29; Gaz. vol. 215; p. 1457.
- Cap, Bathing-. B. Iellinga. No. 1,153,687; Sept. 14; Gaz. vol. 218; p. 506.
- Cap, Bathing-. E. Hiller. No. 1,139,418; May 11; Gaz. vol. 214; p. 634.
- Cap, Bathing-. I. W. Litchfield. No. 1,156,238; Oct. 12; Gaz. vol. 219; p. 341.
- Cap, Bathing-. H. P. Rindskopf. No. 1,139,312; May 11; Gaz. vol. 214; p. 595.
- Cap-cover stretcher. E. C. Russell. No. 1,148,718; Aug. 3; Gaz. vol. 217; p. 84.
- Cap-dropper. E. M. Lang, Jr., and C. W. Sleeper. No. 1,159,235; Nov. 2; Gaz. vol. 220; p. 287.
- Cap, Dust-. L. Cobb and F. Pitman. No. 1,151,085; Aug. 24; Gaz. vol. 217; p. 1141.
- Cap, Motor-. J. A. Cohoon, Jr. No. 1,134,515; Apr. 6; Gaz. vol. 213; p. 158.
- Cap-placer. J. E. Foote. No. 1,128,435; Feb. 16; Gaz. vol. 211; p. 709.
- Cap-protector. Y. M. Marks. No. 1,128,170; Feb. 9; Gaz. vol. 211; p. 568.
- Cap-remover. J. D. Henderson. No. 1,150,190; Aug. 17; Gaz. vol. 217; p. 775.
- Cap-remover and cover. F. R. Fisher. No. 1,154,751; Sept. 28; Gaz. vol. 218; p. 936.
- Caps or crowns, Automatic apparatus for feeding. E. Alberti and N. J. Milano. No. 1,161,577; Nov. 23; Gaz. vol. 220; p. 1248.
- Capping-machine. W. C. Buhles. No. 1,162,025; Nov. 30; Gaz. vol. 220; p. 1450.
- Capping-machine. N. M. La Porte. No. 1,123,559; Jan. 5; Gaz. vol. 210; p. 123.
- Capping-machine. J. C. Peppers. No. 1,152,212; Aug. 31; Gaz. vol. 217; p. 1574.
- Cape. C. L. Simpson. No. 1,152,854; Sept. 7; Gaz. vol. 218; p. 175.
- Capsule-assembling machine. B. T. Winchester. No. 1,155,023; Sept. 28; Gaz. vol. 218; p. 1027.
- Capsule-filler. C. C. Abbey and E. L. Madden. No. 1,161,276; Nov. 23; Gaz. vol. 220; p. 1143.
- Capsule-filler. S. Broadwell and C. Holloway. No. 1,144,634; June 29; Gaz. vol. 215; p. 1366.
- Capsule-filler. W. J. Kirkland. No. 1,147,512; July 20; Gaz. vol. 216; p. 928.
- Capsule-filling device. J. H. Sullivan. No. 1,124,674; Jan. 12; Gaz. vol. 210; p. 561.
- Capsule, Gelatin. H. R. Planten. No. 1,134,156; Apr. 6; Gaz. vol. 213; p. 26.
- Capsule, Gelatin. H. R. Planten. No. 1,148,621; Aug. 3; Gaz. vol. 217; p. 50.
- Capsule-holder. F. J. Hubbard. No. 1,148,776; Aug. 3; Gaz. vol. 217; p. 106.
- Capsule-machine. B. T. Winchester. No. 1,125,619; Jan. 19; Gaz. vol. 210; p. 931.
- Capsule-machine. B. T. Winchester. No. 1,146,539; July 13; Gaz. vol. 216; p. 569.
- Car. D. W. Hawksworth. No. 1,137,967; May 4; Gaz. vol. 214; p. 86.
- Car. A. G. McGregor. No. 1,143,641; June 22; Gaz. vol. 215; p. 995.
- Car. M. P. Reynolds. No. 1,152,047; Aug. 31; Gaz. vol. 217; p. 1517.
- Car. J. B. Strauss. No. 1,141,987; June 8; Gaz. vol. 215; p. 352.
- Car. W. D. Thompson. No. 1,137,928; May 4; Gaz. vol. 214; p. 71.
- Car adjustable side bearing, Railway-. C. B. Patch. No. 1,140,184; May 18; Gaz. vol. 214; p. 941.
- Car anchor, Tank-. A. Becker. No. 1,151,651; Aug. 31; Gaz. vol. 217; p. 1381.
- Car and logging-sled stake, Disappearing. A. Gendreau. No. 1,142,879; June 15; Gaz. vol. 215; p. 704.
- Car and similar vehicle, Street-. G. C. Wing and L. P. Lipps. No. 1,142,867; June 15; Gaz. vol. 215; p. 700.
- Car, Armored motor-. J. Stankus. No. 1,155,450; Oct. 5; Gaz. vol. 219; p. 43.
- Car attachment. H. W. Graff. No. 1,144,189; June 22; Gaz. vol. 215; p. 1186.
- Car attachment. J. J. Peters. No. 1,147,813; July 27; Gaz. vol. 216; p. 1059.
- Car attachment. J. N. Suprunowski. No. 1,129,755; Feb. 23; Gaz. vol. 211; p. 1202.
- Car attachment, Freight-. J. S. McQuown. No. 1,126,243; Jan. 26; Gaz. vol. 210; p. 1190.
- Car axle and wheels. M. Kennedy. No. 1,149,836; Aug. 10; Gaz. vol. 217; p. 586.
- Car, Ballast-. J. O. Neikirk. No. 1,138,006; May 4; Gaz. vol. 214; p. 99.
- Car-bodies, Coating. M. E. McDonnell. No. 1,151,700; Aug. 31; Gaz. vol. 217; p. 1396.

Alphabetical list of inventions—Continued.

- Car-body. F. E. Pixley. No. 1,138,309; May 4; Gaz. vol. 214; p. 205.
- Car body, Motor-. R. S. Carter. No. 1,144,999; July 6; Gaz. vol. 216; p. 7.
- Car body, Motor-. A. G. Macdonald. No. 1,147,333; July 20; Gaz. vol. 216; p. 863.
- Car, Box-. A. Stuckl. No. 1,137,922; May 4; Gaz. vol. 214; p. 70.
- Car-brake. C. H. Boardman. No. 1,161,598; Nov. 23; Gaz. vol. 220; p. 1255.
- Car-brake. P. Boch. No. 1,153,151; Sept. 7; Gaz. vol. 218; p. 276.
- Car-brake. J. A. Brooks. No. 1,162,219; Nov. 30; Gaz. vol. 220; p. 1518.
- Car-brake. P. Brown. (Reissue.) No. 1,3964; Aug. 24; Gaz. vol. 217; p. 1301.
- Car-brake. P. Brown. (Reissue.) No. 1,3965; Aug. 24; Gaz. vol. 217; p. 1303.
- Car-brake. W. F. Kiesel, Jr. No. 1,162,242; Nov. 30; Gaz. vol. 220; p. 1526.
- Car-brake. J. H. Maxwell. No. 1,158,705; Nov. 2; Gaz. vol. 220; p. 103.
- Car-brake. W. Steinburg and D. Wegner. No. 1,132,695; Mar. 23; Gaz. vol. 212; p. 1124.
- Car-brake, Hand-operated. L. W. Horne and W. N. Crane. No. 1,166,214; Dec. 28; Gaz. vol. 221; p. 1345.
- Car-brake, Hand-operated. J. A. Noble. No. 1,156,849; Oct. 12; Gaz. vol. 219; p. 556.
- Car-brake-manipulating apparatus, Railway-. G. H. Gilman. No. 1,159,581; Nov. 9; Gaz. vol. 220; p. 441.
- Car brake, Mine-. C. E. Morgan. No. 1,154,041; Sept. 21; Gaz. vol. 218; p. 664.
- Car brake, Mine-. H. D. Scott. No. 1,155,964; Oct. 5; Gaz. vol. 219; p. 222.
- Car brake, Railway-. E. Castanho. No. 1,146,784; July 20; Gaz. vol. 216; p. 673.
- Car brake, Railway-. I. H. McArthur and A. J. Carter. No. 1,126,802; Feb. 2; Gaz. vol. 211; p. 49.
- Car-braking means for gravity-yards and the like, Railway-. E. H. Frank. No. 1,157,622; Oct. 19; Gaz. vol. 219; p. 855.
- Car buffer device, Railway-. W. H. Miner. No. 1,152,035; Aug. 31; Gaz. vol. 217; p. 1514.
- Car-buffing mechanism. J. F. O'Connor. No. 1,148,186; July 27; Gaz. vol. 216; p. 1193.
- Car bunk, Logging-. C. W. Russell. No. 1,124,530; Jan. 12; Gaz. vol. 210; p. 508.
- Car-cager, Automatic. J. A. Nolan. No. 1,144,374; June 29; Gaz. vol. 215; p. 1280.
- Car-card holder, Freight-. T. A. Biggs. No. 1,141,925; June 8; Gaz. vol. 215; p. 332.
- Car center-bearing. T. Elliott and W. E. Moore. No. 1,144,644; June 29; Gaz. vol. 215; p. 1370.
- Car center-bearing. B. D. Lockwood. No. 1,161,941; Nov. 30; Gaz. vol. 220; p. 1422.
- Car center-bearing, Railway-. L. W. Barber. No. 1,128,743; Feb. 16; Gaz. vol. 211; p. 815.
- Car, Charging-. F. D. Carney and R. V. McKay. No. 1,158,982; Nov. 2; Gaz. vol. 220; p. 199.
- Car, Cinder or hot-metal. E. A. Weimer. No. 1,151,312; Aug. 24; Gaz. vol. 217; p. 1218.
- Car closure, Freight-. F. J. Gilroy. No. 1,141,328; June 1; Gaz. vol. 215; p. 86.
- Car, Combined plow, gondola, and ballast. A. Campbell. No. 1,125,959; Jan. 26; Gaz. vol. 210; p. 1084.
- Car, Combined touring and sleeping. E. T. Zimmerman. No. 1,163,056; Dec. 7; Gaz. vol. 221; p. 112.
- Car, Compartment fruit-. J. W. Swartz. No. 1,134,423; Apr. 6; Gaz. vol. 213; p. 123.
- Car, Composite freight-. E. D. Levy. No. 1,132,195; Mar. 16; Gaz. vol. 212; p. 893.
- Car-connector. H. A. Boomer. No. 1,150,806; Aug. 17; Gaz. vol. 217; p. 988.
- Car construction. A. Galdyn and S. Lublin. No. 1,142,878; June 15; Gaz. vol. 215; p. 704.
- Car construction. J. Pearson. No. 1,145,262; July 6; Gaz. vol. 216; p. 100.
- Car construction. H. M. Pfager. No. 1,147,429; July 20; Gaz. vol. 216; p. 899.
- Car construction. W. E. Scott. No. 1,137,429; Apr. 27; Gaz. vol. 213; p. 1311.
- Car construction. A. H. Sisson. No. 1,130,853; Mar. 9; Gaz. vol. 212; p. 386.
- Car construction, Antitelescopic. H. M. Pfager. No. 1,140,059; May 18; Gaz. vol. 214; p. 897.
- Car construction, Box-. H. E. Moss. No. 1,162,943; Dec. 7; Gaz. vol. 221; p. 72.
- Car construction, Dump-. R. V. Sage. No. 1,158,006; Oct. 26; Gaz. vol. 219; p. 1054.
- Car construction, Railway-. J. F. O'Connor. No. 1,154,202; Sept. 21; Gaz. vol. 218; p. 718.
- Car-control system. F. Hedley and J. S. Doyle. No. 1,149,758; Aug. 10; Gaz. vol. 217; p. 558.
- Car-controlling apparatus, Electric-railway-. A. Sundh. No. 1,160,959; Nov. 16; Gaz. vol. 220; p. 984.
- Car, Convertible. P. M. Beard. No. 1,140,654; May 25; Gaz. vol. 214; p. 1140.
- Car, Convertible general-service ballast-. A. Campbell. No. 1,164,918; Dec. 21; Gaz. vol. 221; p. 849.
- Car, Convertible stock and dump. T. Bevington. No. 1,133,702; Mar. 30; Gaz. vol. 212; p. 1526.
- Car, Convertible street-. B. Hechler. No. 1,146,873; July 20; Gaz. vol. 216; p. 704.
- Car-coupling. J. L. G. Ballard. No. 1,125,252; Jan. 19; Gaz. vol. 210; p. 803.
- Car-coupling. A. J. Bazeley. No. 1,128,652; Feb. 16; Gaz. vol. 211; p. 784.
- Car-coupling. A. J. Bazeley. No. 1,144,315; June 22; Gaz. vol. 215; p. 1231.
- Car-coupling. A. J. Bazeley. No. 1,144,316; June 22; Gaz. vol. 215; p. 1231.
- Car-coupling. A. J. Bazeley. No. 1,144,317; June 22; Gaz. vol. 215; p. 1232.
- Car-coupling. A. J. Bazeley. No. 1,152,138; Aug. 31; Gaz. vol. 217; p. 1548.
- Car-coupling. J. Berriman. No. 1,151,154; Aug. 24; Gaz. vol. 217; p. 1166.
- Car-coupling. O. C. Billman. No. 1,151,559; Aug. 31; Gaz. vol. 217; p. 1349.
- Car-coupling. M. L. Blackman. No. 1,157,496; Oct. 19; Gaz. vol. 219; p. 815.
- Car-coupling. W. Blackmore. No. 1,144,024; June 22; Gaz. vol. 215; p. 1128.
- Car-coupling. M. A. Brown. No. 1,127,584; Feb. 9; Gaz. vol. 211; p. 361.
- Car-coupling. M. A. Brown. No. 1,146,233; July 13; Gaz. vol. 216; p. 461.
- Car-coupling. S. P. Bush. No. 1,132,434; Mar. 16; Gaz. vol. 212; p. 980.
- Car-coupling. S. P. Bush. No. 1,135,963; Apr. 13; Gaz. vol. 213; p. 708.
- Car-coupling. T. E. Cox. No. 1,123,694; Jan. 5; Gaz. vol. 210; p. 169.
- Car-coupling. T. E. Cox. No. 1,156,029; Oct. 5; Gaz. vol. 219; p. 244.
- Car-coupling. C. Dietz. No. 1,142,501; June 8; Gaz. vol. 215; p. 536.
- Car-coupling. H. E. Doerr. No. 1,138,198; May 4; Gaz. vol. 214; p. 167.
- Car-coupling. J. Driscoll. No. 1,158,189; Oct. 26; Gaz. vol. 219; p. 1120.
- Car-coupling. J. Dubois and J. E. Jones. No. 1,161,201; Nov. 23; Gaz. vol. 220; p. 1115.
- Car-coupling. I. Gause. No. 1,140,976; May 25; Gaz. vol. 214; p. 1253.
- Car-coupling. M. B. Giberson. No. 1,138,650; May 11; Gaz. vol. 214; p. 362.
- Car-coupling. M. B. Giberson. No. 1,151,780; Aug. 31; Gaz. vol. 217; p. 1425.
- Car-coupling. G. H. Gilbert. No. 1,126,979; Feb. 2; Gaz. vol. 211; p. 110.
- Car-coupling. O. T. Gregg. No. 1,156,072; Oct. 12; Gaz. vol. 219; p. 286.
- Car-coupling. O. T. Gregg. No. 1,156,073; Oct. 12; Gaz. vol. 219; p. 287.
- Car-coupling. R. E. L. Janney. No. 1,135,527; Apr. 13; Gaz. vol. 213; p. 554.
- Car-coupling. R. E. L. Janney and E. P. Kinne. No. 1,124,908; Jan. 12; Gaz. vol. 210; p. 644.
- Car-coupling. G. T. Johnson and G. M. Murphy. No. 1,128,087; Feb. 16; Gaz. vol. 211; p. 902.
- Car-coupling. J. Kelso. No. 1,148,021; July 27; Gaz. vol. 216; p. 1133.
- Car-coupling. J. Kelso. No. 1,148,022; July 27; Gaz. vol. 216; p. 1133.
- Car-coupling. W. Kelso. No. 1,148,020; July 27; Gaz. vol. 216; p. 1133.
- Car-coupling. W. and J. Kelso. No. 1,148,024; July 27; Gaz. vol. 216; p. 1134.
- Car-coupling. E. P. Kinne. No. 1,151,691; Aug. 31; Gaz. vol. 217; p. 1393.
- Car-coupling. S. F. Klohs. No. 1,142,104; June 8; Gaz. vol. 215; p. 395.
- Car-coupling. W. McConway, Jr. No. 1,148,027; July 27; Gaz. vol. 216; p. 1135.
- Car-coupling. W. McConway, Jr. No. 1,148,028; July 27; Gaz. vol. 216; p. 1136.
- Car-coupling. W. McConway, Jr., and W. J. Regan. No. 1,148,030; July 27; Gaz. vol. 216; p. 1137.
- Car-coupling. W. McConway, Jr., and W. J. Regan. No. 1,148,031; July 27; Gaz. vol. 216; p. 1137.
- Car-coupling. I. H. Milliken. No. 1,148,037; July 27; Gaz. vol. 216; p. 1139.
- Car-coupling. L. Olcsvary. No. 1,139,217; May 11; Gaz. vol. 214; p. 564.
- Car-coupling. I. Olivero. No. 1,163,447; Dec. 7; Gaz. vol. 221; p. 250.
- Car-coupling. G. H. Putnam. No. 1,155,683; Oct. 5; Gaz. vol. 219; p. 125.
- Car-coupling. W. J. Regan. No. 1,148,048; July 27; Gaz. vol. 216; p. 1143.
- Car-coupling. W. J. Regan. No. 1,148,049; July 27; Gaz. vol. 216; p. 1143.
- Car-coupling. W. F. Richards. No. 1,132,383; Mar. 16; Gaz. vol. 212; p. 962.
- Car-coupling. W. F. Richards. No. 1,136,554; Apr. 20; Gaz. vol. 213; p. 958.
- Car-coupling. W. F. Richards. No. 1,164,666; Dec. 21; Gaz. vol. 221; p. 762.
- Car-coupling. M. Sable. No. 1,138,321; May 4; Gaz. vol. 214; p. 211.
- Car-coupling. T. H. Simpson. No. 1,138,695; May 11; Gaz. vol. 214; p. 379.

- Car-coupling. J. Tate. No. 1,128,386; Feb. 16; Gaz. vol. 211; p. 691.
- Car-coupling. H. E. Van Dorn. No. 1,161,426; Nov. 23; Gaz. vol. 220; p. 1197.
- Car-coupling. G. J. Willett. No. 1,140,223; May 18; Gaz. vol. 214; p. 953.
- Car-coupling. J. Willison. No. 1,162,272; Nov. 30; Gaz. vol. 220; p. 1537.
- Car-coupling. M. Wuerpel. No. 1,127,145; Feb. 2; Gaz. vol. 211; p. 170.
- Car-coupling, Automatic. C. H. Stark. No. 1,139,382; May 11; Gaz. vol. 214; p. 621.
- Car-coupling, Automatic. M. Wuerpel. No. 1,131,194; Mar. 9; Gaz. vol. 212; p. 503.
- Car-coupling, Automatic-clench. W. T. and A. J. Lilly. No. 1,158,515; Nov. 2; Gaz. vol. 220; p. 37.
- Car-coupling-centering device. I. N. Russell. No. 1,150,457; Aug. 17; Gaz. vol. 217; p. 867.
- Car-coupling-centering device. I. N. Russell. No. 1,150,458; Aug. 17; Gaz. vol. 217; p. 867.
- Car-coupling draw-bars, Yoke for. W. Wright. No. 1,125,430; Jan. 19; Gaz. vol. 210; p. 866.
- Car-coupling, Locomotive. M. B. Giberson. No. 1,132,574; Mar. 23; Gaz. vol. 212; p. 1080.
- Car-coupling, Locomotive. M. B. Giberson. No. 1,132,575; Mar. 23; Gaz. vol. 212; p. 1080.
- Car coupling, Mine-. W. Towers. No. 1,150,980; Aug. 24; Gaz. vol. 217; p. 1106.
- Car-coupling pin-lifter. S. H. Campbell. No. 1,159,470; Nov. 9; Gaz. vol. 220; p. 402.
- Car-coupling pivot-pins. Securing device for railway. M. B. Giberson. No. 1,133,632; Mar. 30; Gaz. vol. 212; p. 1499.
- Car-coupling release-rigging. S. H. Conwell. No. 1,131,996; Mar. 16; Gaz. vol. 212; p. 821.
- Car-coupling stem. W. McCouway, Jr. No. 1,151,807; Aug. 31; Gaz. vol. 217; p. 1435.
- Car-coupling uncoupling device. W. J. Knox. No. 1,123,896; Jan. 5; Gaz. vol. 210; p. 238.
- Car-coupling uncoupling device. R. R. Weaver. No. 1,136,068; Apr. 20; Gaz. vol. 213; p. 785.
- Car-coupling-unlocking mechanism. F. M. Whyte. No. 1,151,982; Aug. 31; Gaz. vol. 217; p. 1495.
- Car-coupling-unlocking mechanism. F. M. Whyte. No. 1,162,269; Nov. 30; Gaz. vol. 220; p. 1536.
- Car-couplings, Device for adjusting. F. M. Turner and J. Dahlstrom. No. 1,151,228; Aug. 24; Gaz. vol. 217; p. 1191.
- Car-couplings, Knuckle-pin retainer for. I. H. Milliken. No. 1,148,036; July 27; Gaz. vol. 216; p. 1139.
- Car-couplings, Release-rigging for. S. H. Conwell. No. 1,164,631; Dec. 21; Gaz. vol. 221; p. 749.
- Car-couplings, Release-rigging for. W. P. Murphy. No. 1,151,376; Aug. 24; Gaz. vol. 217; p. 1238.
- Car-cushions or the like, Apparatus for treating. W. F. Service. No. 1,143,080; June 15; Gaz. vol. 215; p. 776.
- Car-derailer. G. S. Richter. No. 1,130,433; Mar. 2; Gaz. vol. 212; p. 207.
- Car-derailing device. A. P. Le Doux. No. 1,132,780; Mar. 23; Gaz. vol. 212; p. 1157.
- Car-diaphragm construction. H. H. Schroyer. No. 1,151,725; Aug. 31; Gaz. vol. 217; p. 1405.
- Car-diaphragm-hood construction. C. L. Bundy. No. 1,145,859; July 6; Gaz. vol. 216; p. 309.
- Car-door. E. H. Davis. No. 1,129,795; Feb. 23; Gaz. vol. 211; p. 1217.
- Car-door. J. M. Etiman. No. 1,125,826; Jan. 19; Gaz. vol. 210; p. 1006.
- Car-door. B. B. Harris, B. F. Donner, and R. H. McNair. No. 1,147,721; July 27; Gaz. vol. 216; p. 1028.
- Car-door. F. Jager. No. 1,143,121; June 15; Gaz. vol. 215; p. 789.
- Car-door. F. Jager. No. 1,143,122; June 15; Gaz. vol. 215; p. 790.
- Car-door. L. T. Johnson. No. 1,145,197; July 6; Gaz. vol. 216; p. 78.
- Car-door. P. A. Lacour. No. 1,158,510; Nov. 2; Gaz. vol. 220; p. 35.
- Car-door. E. L. Lee and E. T. De Witt. No. 1,142,588; June 8; Gaz. vol. 215; p. 565.
- Car-door. E. L. Lee and E. T. De Witt. No. 1,163,421; Dec. 7; Gaz. vol. 221; p. 240.
- Car-door. A. R. McDaniel. No. 1,153,803; Sept. 14; Gaz. vol. 218; p. 547.
- Car-door. E. F. McLaughlin. No. 1,126,241; Jan. 26; Gaz. vol. 210; p. 1190.
- Car-door. W. P. Murphy. No. 1,151,375; Aug. 24; Gaz. vol. 217; p. 1238.
- Car-door. W. L. Renner and M. A. Brown. No. 1,156,098; Oct. 12; Gaz. vol. 219; p. 295.
- Car-door. J. W. Rumsey. (Reissue.) No. 13,992; Oct. 12; Gaz. vol. 219; p. 565.
- Car-door. W. Sneddon. No. 1,152,665; Sept. 7; Gaz. vol. 218; p. 106.
- Car-door. G. Thompson. No. 1,159,550; Nov. 9; Gaz. vol. 220; p. 429.
- Car-door. A. W. Wilson and I. E. Rice. No. 1,154,681; Sept. 28; Gaz. vol. 218; p. 914.
- Car door-actuating mechanism, General-service-. W. E. Morey. No. 1,155,430; Oct. 5; Gaz. vol. 219; p. 37.
- Car door-actuating mechanism, General-service-. W. E. Morey. No. 1,157,893; Oct. 26; Gaz. vol. 219; p. 1016.
- Car door and step mechanism. C. H. Turner. No. 1,164,239; Dec. 14; Gaz. vol. 221; p. 569.
- Car door and step operating mechanism, Passenger-. G. B. Kohler. No. 1,164,362; Dec. 14; Gaz. vol. 221; p. 615.
- Car door, Box-. J. P. Müller. No. 1,144,048; June 22; Gaz. vol. 215; p. 1137.
- Car-door bracket. J. J. Byers. No. 1,156,587; Oct. 12; Gaz. vol. 219; p. 464.
- Car-door construction, Freight-. C. F. Allen. No. 1,141,513; June 1; Gaz. vol. 215; p. 152.
- Car-door device. W. C. and C. R. Martineau. No. 1,165,014; Dec. 21; Gaz. vol. 221; p. 882.
- Car door, Dump-. C. H. Clark. No. 1,136,317; Apr. 20; Gaz. vol. 213; p. 873.
- Car-door fastener. R. J. Blackburn. No. 1,164,456; Dec. 14; Gaz. vol. 221; p. 648.
- Car-door fastener. C. W. Booth. No. 1,130,470; Mar. 2; Gaz. vol. 212; p. 220.
- Car-door fastener. C. K. Brooks. No. 1,148,143; July 27; Gaz. vol. 216; p. 1179.
- Car-door fastener. J. M. Gray. No. 1,145,987; July 13; Gaz. vol. 216; p. 374.
- Car-door fastener. J. Hook and W. C. Rodney. No. 1,124,901; Jan. 12; Gaz. vol. 210; p. 641.
- Car-door fastener. W. C. and C. R. Martineau. No. 1,165,013; Dec. 21; Gaz. vol. 221; p. 882.
- Car-door fastener. W. C. and C. R. Martineau. No. 1,165,993; Dec. 28; Gaz. vol. 221; p. 1263.
- Car-door fastener. W. V. Osborne. No. 1,137,661; Apr. 27; Gaz. vol. 213; p. 1387.
- Car-door fastening. N. P. Kemp. No. 1,152,419; Sept. 7; Gaz. vol. 218; p. 13.
- Car-door-fastening device. E. A. Nix and E. C. Roddie. No. 1,145,164; July 6; Gaz. vol. 216; p. 66.
- Car door, Freight-. C. H. Andrus. No. 1,152,261; Aug. 31; Gaz. vol. 217; p. 1591.
- Car door, Freight-. J. Mapes. No. 1,132,202; Mar. 16; Gaz. vol. 212; p. 895.
- Car door, Freight-. W. H. V. Rosing. No. 1,164,120; Dec. 14; Gaz. vol. 221; p. 530.
- Car door, Freight-. J. Toney. No. 1,131,807; Mar. 16; Gaz. vol. 212; p. 754.
- Car-door gear. C. A. Lindström. No. 1,155,938; Oct. 5; Gaz. vol. 219; p. 212.
- Car door, Grain-. C. W. and A. Bash. No. 1,140,100; May 18; Gaz. vol. 214; p. 913.
- Car door, Grain-. C. A. Creapo. No. 1,159,651; Nov. 9; Gaz. vol. 220; p. 466.
- Car door, Grain-. G. H. Fahrenbruch. No. 1,137,747; May 4; Gaz. vol. 214; p. 9.
- Car door, Grain-. E. W. Hogan. No. 1,153,787; Sept. 14; Gaz. vol. 218; p. 541.
- Car door, Grain-. R. Kirkwood and C. Lee. No. 1,129,496; Feb. 23; Gaz. vol. 211; p. 1117.
- Car door, Grain-. C. W. F. Koch and U. G. Shuler. No. 1,125,344; Jan. 19; Gaz. vol. 210; p. 835.
- Car door, Grain-. S. Manuel. No. 1,143,846; June 22; Gaz. vol. 215; p. 1065.
- Car door, Grain-. W. B. Nicoll. No. 1,128,032; Feb. 9; Gaz. vol. 211; p. 521.
- Car door, Grain-. C. F. Rakow. No. 1,149,080; Aug. 3; Gaz. vol. 217; p. 210.
- Car door, Grain-. M. A. Ruble and C. M. Stevens. No. 1,157,124; Oct. 19; Gaz. vol. 219; p. 684.
- Car door, Grain-. N. C. Vidal and J. A. Mathers. No. 1,148,064; July 27; Gaz. vol. 216; p. 1149.
- Car-door hanger. J. F. Comee. No. 1,126,403; Jan. 26; Gaz. vol. 210; p. 1246.
- Car-door hanger. J. F. Comee. (Reissue.) No. 13,927; June 15; Gaz. vol. 215; p. 959.
- Car-door hanger. O. E. Gelbrich and G. W. Hintz. No. 1,136,118; Apr. 20; Gaz. vol. 213; p. 802.
- Car-door hanger. C. C. Russell. No. 1,142,532; June 8; Gaz. vol. 215; p. 546.
- Car-door hasp. J. A. Linn. No. 1,144,043; June 22; Gaz. vol. 215; p. 1135.
- Car-door lock. E. C. Brown and W. B. May. No. 1,144,345; June 29; Gaz. vol. 215; p. 1270.
- Car-door lock. O. E. Gelbrich and G. W. Hintz. No. 1,136,117; Apr. 20; Gaz. vol. 213; p. 801.
- Car-door lock. H. Gordon. No. 1,133,953; Mar. 30; Gaz. vol. 212; p. 1611.
- Car-door lock. C. F. Rakow. No. 1,151,392; Aug. 24; Gaz. vol. 217; p. 1244.
- Car-door lock. J. L. Rohr. No. 1,158,720; Nov. 2; Gaz. vol. 220; p. 108.
- Car-door lock. G. Standfest. No. 1,133,332; Mar. 30; Gaz. vol. 212; p. 1391.
- Car-door lock. J. Vanyo. No. 1,148,731; Aug. 3; Gaz. vol. 217; p. 89.
- Car-door mechanism, Railway-. E. G. Nylander. No. 1,136,971; Apr. 27; Gaz. vol. 213; p. 1142.
- Car-door, Metal. W. P. Murphy. No. 1,163,028; Dec. 7; Gaz. vol. 221; p. 103.
- Car-door operating and locking device. H. Pitts. No. 1,139,904; May 18; Gaz. vol. 214; p. 842.
- Car-door-operating mechanism. W. E. Harris. No. 1,155,922; Oct. 5; Gaz. vol. 219; p. 208.
- Car-door-operating mechanism. J. F. McElroy. No. 1,145,912; July 13; Gaz. vol. 216; p. 347.

Alphabetical list of inventions—Continued.

- Car-door-operating mechanism. B. T. Peterson. No. 1,132,683; Mar. 23; Gaz. vol. 212; p. 1120.
- Car-door-operating mechanism. M. H. Priddy. No. 1,154,053; Sept. 21; Gaz. vol. 218; p. 669.
- Car-door-operating mechanism. A. Taurman. No. 1,144,923; June 29; Gaz. vol. 215; p. 1466.
- Car-door-operating mechanism. Dump. A. Campbell. No. 1,140,111; May 18; Gaz. vol. 214; p. 916.
- Car-door-operating mechanism. Dump. R. G. Taylor. No. 1,133,336; Mar. 30; Gaz. vol. 212; p. 1392.
- Car-door-operating mechanism. Passenger. P. R. Forman. No. 1,147,854; July 27; Gaz. vol. 216; p. 1074.
- Car-door-operating mechanism. Railway. H. S. Hart and F. Seaberg. No. 1,131,236; Mar. 9; Gaz. vol. 212; p. 517.
- Car-door-operating mechanism. Railway. J. O. Nelskirk. No. 1,161,240; Nov. 23; Gaz. vol. 220; p. 1130.
- Car-door-operating mechanism. Railway. S. Otis. No. 1,129,421; Feb. 23; Gaz. vol. 211; p. 1090.
- Car-door-operating mechanism. Railway. S. Otis. No. 1,129,422; Feb. 23; Gaz. vol. 211; p. 1090.
- Car-door-operating mechanism. Railway. F. Seaberg. No. 1,154,407; Aug. 24; Gaz. vol. 217; p. 1349.
- Car-door-protector. Freight. L. Rothholz. No. 1,128,365; Dec. 16; Gaz. vol. 211; p. 685.
- Car-door roller. J. T. Ford. No. 1,163,396; Dec. 7; Gaz. vol. 221; p. 232.
- Car-door safety-lock. M. Bazille. No. 1,127,721; Feb. 9; Gaz. vol. 211; p. 410.
- Car-door stop. Adjustable. H. J. Clevenger. No. 1,162,978; Dec. 7; Gaz. vol. 221; p. 85.
- Car-door structure. Railway. E. W. Hartough and S. P. Alquist. No. 1,137,483; Apr. 27; Gaz. vol. 213; p. 1328.
- Car-door-supporting bracket. F. Mathews. No. 1,148,607; Aug. 3; Gaz. vol. 217; p. 45.
- Car-door-supporting bracket. F. Mathews. No. 1,149,667; Aug. 10; Gaz. vol. 217; p. 527.
- Car-door track structure. Freight. R. W. Burnett. No. 1,156,884; Oct. 19; Gaz. vol. 219; p. 598.
- Car, Double-deck. W. E. Fowler. Sr. No. 1,165,661; Dec. 28; Gaz. vol. 221; p. 1148.
- Car, Double-deck passenger. P. N. Jones, F. R. Phillips, and J. W. Welsh. No. 1,150,679; Aug. 17; Gaz. vol. 217; p. 945.
- Car draft and buffing mechanism. Railway. G. H. Forsyth. No. 1,123,511; Jan. 5; Gaz. vol. 210; p. 108.
- Car draft-arm. Railway. C. J. Nash. No. 1,136,159; Apr. 20; Gaz. vol. 213; p. 817.
- Car draft-gear. Railway. J. M. Moorman. No. 1,150,695; Aug. 17; Gaz. vol. 217; p. 951.
- Car draft-gear. Railway. J. F. O'Connor. No. 1,148,185; July 27; Gaz. vol. 216; p. 1193.
- Car draft-plate. Railway. H. I. Wrigley. No. 1,156,573; Oct. 12; Gaz. vol. 219; p. 460.
- Car draft-rigging. A. C. McCord. No. 1,149,662; Aug. 10; Gaz. vol. 217; p. 525.
- Car draft-rigging. Coupling-connector for railway. J. F. O'Connor. No. 1,123,355; Jan. 5; Gaz. vol. 210; p. 55.
- Car draft-rigging. Draft-yoke for railway. S. B. Haseltine. No. 1,125,314; Jan. 19; Gaz. vol. 210; p. 824.
- Car draft-rigging. Draft-yoke for railway. S. B. Haseltine. No. 1,130,692; Mar. 2; Gaz. vol. 212; p. 298.
- Car draft-rigging. Draft-yoke for railway. W. A. Mitchell. No. 1,128,347; Feb. 16; Gaz. vol. 211; p. 679.
- Car draft-rigging. Draft-yoke for railway. W. A. Mitchell. No. 1,136,032; Apr. 20; Gaz. vol. 213; p. 773.
- Car draft-rigging. Draft-yoke for railway. J. F. O'Connor. No. 1,128,353; Feb. 16; Gaz. vol. 211; p. 682.
- Car draft-rigging. Draft-yoke for railway. J. F. O'Connor. No. 1,128,356; Feb. 16; Gaz. vol. 211; p. 683.
- Car draft-rigging. Draft-yoke for railway. J. F. O'Connor. No. 1,136,036; Apr. 20; Gaz. vol. 213; p. 775.
- Car draft-rigging. Manufacturing a draft-yoke for railway. O. C. Cromwell. No. 1,125,665; Jan. 19; Gaz. vol. 210; p. 950.
- Car draft-rigging. Railway. R. W. Burnett. No. 1,127,958; Feb. 9; Gaz. vol. 211; p. 495.
- Car draft-rigging. Railway. C. E. Eklind. No. 1,148,580; Aug. 3; Gaz. vol. 217; p. 35.
- Car draft-rigging. Railway. G. H. Forsyth. No. 1,123,510; Jan. 5; Gaz. vol. 210; p. 107.
- Car draft-rigging. Railway. S. B. Haseltine. No. 1,136,008; Apr. 20; Gaz. vol. 213; p. 765.
- Car draft-rigging. Railway. S. B. Haseltine. No. 1,136,128; Apr. 20; Gaz. vol. 213; p. 805.
- Car draft-rigging. Railway. G. A. Johnson. No. 1,125,109; Jan. 19; Gaz. vol. 210; p. 749.
- Car draft-rigging. Railway. G. A. Johnson. No. 1,128,321; Feb. 16; Gaz. vol. 211; p. 671.
- Car draft-rigging. Railway. G. A. Johnson. No. 1,128,322; Feb. 16; Gaz. vol. 211; p. 671.
- Car draft-rigging. Railway. G. A. Johnson. No. 1,136,013; Apr. 20; Gaz. vol. 213; p. 767.
- Car draft-rigging. Railway. G. A. Johnson. No. 1,139,875; May 18; Gaz. vol. 214; p. 831.
- Car draft-rigging. Railway. G. A. Johnson. No. 1,140,162; May 18; Gaz. vol. 214; p. 933.
- Car draft-rigging. Railway. G. A. Johnson. No. 1,148,173; July 27; Gaz. vol. 216; p. 1189.
- Car draft-rigging. Railway. G. Q. Lewis. No. 1,123,328; Jan. 5; Gaz. vol. 210; p. 45.
- Car draft-rigging. Railway. W. H. Miner. No. 1,139,791; May 18; Gaz. vol. 214; p. 801.
- Car draft-rigging. Railway. W. H. Miner. No. 1,155,079; Sept. 28; Gaz. vol. 218; p. 1049.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,123,356; Jan. 5; Gaz. vol. 210; p. 55.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,128,354; Feb. 16; Gaz. vol. 211; p. 682.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,130,012; Mar. 2; Gaz. vol. 212; p. 60.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,136,037; Apr. 20; Gaz. vol. 213; p. 775.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,136,039; Apr. 20; Gaz. vol. 213; p. 775.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,136,040; Apr. 20; Gaz. vol. 213; p. 776.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,186,041; Apr. 20; Gaz. vol. 213; p. 776.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,136,042; Apr. 20; Gaz. vol. 213; p. 776.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,138,138; May 4; Gaz. vol. 214; p. 148.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,138,139; May 4; Gaz. vol. 214; p. 148.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,139,058; May 11; Gaz. vol. 214; p. 509.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,139,060; May 11; Gaz. vol. 214; p. 510.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,142,358; June 8; Gaz. vol. 215; p. 483.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,142,839; June 15; Gaz. vol. 215; p. 689.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,148,187; July 27; Gaz. vol. 216; p. 1193.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,149,399; Aug. 10; Gaz. vol. 217; p. 428.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,152,039; Aug. 31; Gaz. vol. 217; p. 1515.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,152,040; Aug. 31; Gaz. vol. 217; p. 1515.
- Car draft-rigging. Railway. J. F. O'Connor. No. 1,152,041; Aug. 31; Gaz. vol. 217; p. 1516.
- Car draft-rigging. Railway. C. B. Hatch. No. 1,137,891; May 4; Gaz. vol. 214; p. 58.
- Car draft-rigging. Railway. H. F. Schwartzberg. No. 1,146,286; July 13; Gaz. vol. 216; p. 478.
- Car draft-rigging. Railway. C. B. Young and G. G. Gilpin. No. 1,130,051; Mar. 2; Gaz. vol. 212; p. 73.
- Car draft-yoke. Railway. S. B. Haseltine. No. 1,130,083; Mar. 2; Gaz. vol. 212; p. 84.
- Car draft-yoke. Railway. H. F. Schwartzberg. No. 1,128,374; Feb. 16; Gaz. vol. 211; p. 688.
- Car draft-yoke. Railway. H. F. Schwartzberg. No. 1,136,053; Apr. 20; Gaz. vol. 213; p. 779.
- Car drive system. Motor. H. F. Hitner. No. 1,139,678; May 18; Gaz. vol. 214; p. 763.
- Car driving mechanism. Motor. L. Ravel. No. 1,142,621; June 8; Gaz. vol. 215; p. 575.
- Car, Dump. R. E. Cirtzdafer. No. 1,157,147; Oct. 19; Gaz. vol. 219; p. 692.
- Car, Dump. C. H. Clark. No. 1,136,315; Apr. 20; Gaz. vol. 213; p. 872.
- Car, Dump. J. J. Irvin. No. 1,134,859; Apr. 6; Gaz. vol. 213; p. 279.
- Car, Dump. J. S. Martin. No. 1,153,939; Sept. 21; Gaz. vol. 218; p. 629.
- Car, Dump. T. R. McKnight. No. 1,154,261; Sept. 21; Gaz. vol. 218; p. 740.
- Car, Dump. J. B. Rhodes. No. 1,161,159; Nov. 23; Gaz. vol. 220; p. 1099.
- Car, Dump. S. D. Wright. No. 1,124,233; Jan. 5; Gaz. vol. 210; p. 354.
- Car-dumper. F. W. Lovell. No. 1,145,907; July 13; Gaz. vol. 216; p. 345.
- Car-dumper. J. A. Morrison. No. 1,165,698; Dec. 28; Gaz. vol. 221; p. 1161.
- Car, Dumping. J. M. Goodwin. No. 1,154,761; Sept. 28; Gaz. vol. 218; p. 940.
- Car, Dumping. H. Greer, Jr. No. 1,125,307; Jan. 19; Gaz. vol. 210; p. 821.
- Car, Dumping. A. C. Murphy. No. 1,165,532; Dec. 28; Gaz. vol. 221; p. 1101.
- Car, Dumping. A. E. Ostrander and F. H. Gibbs. No. 1,140,606; May 25; Gaz. vol. 214; p. 1124.
- Car, Dumping. R. V. Sage and J. J. Tatum. No. 1,155,759; Oct. 5; Gaz. vol. 219; p. 150.
- Car, Dumping. W. D. Skidmore. No. 1,127,928; Feb. 9; Gaz. vol. 211; p. 484.
- Car, Dumping. W. D. Skidmore. No. 1,127,929; Feb. 9; Gaz. vol. 211; p. 485.
- Car, Dumping. W. D. Skidmore. No. 1,154,446; Sept. 21; Gaz. vol. 218; p. 803.
- Car, Dumping. R. R. Weaver. No. 1,124,980; Jan. 12; Gaz. vol. 210; p. 669.
- Car, Dumping. J. S. Worth. No. 1,133,248; Mar. 23; Gaz. vol. 212; p. 1324.
- Car-dumping apparatus. J. H. Cotton. No. 1,145,408; July 6; Gaz. vol. 216; p. 151.
- Car-dumping apparatus. G. H. Mueller. No. 1,136,829; Apr. 20; Gaz. vol. 213; p. 1056.
- Car, Dumping mine. C. Layton. No. 1,124,147; Jan. 5; Gaz. vol. 210; p. 322.

- Car end, Box-. A. Christianson. No. 1,158,444; Nov. 2; Gaz. vol. 220; p. 11.
- Car end brace, W. P. Murphy. No. 1,152,201; Aug. 31; Gaz. vol. 217; p. 1570.
- Car end brace, W. P. Murphy. No. 1,152,202; Aug. 31; Gaz. vol. 217; p. 1570.
- Car end construction, A. E. Lehmann. No. 1,124,037; Jan. 5; Gaz. vol. 210; p. 285.
- Car end construction, Tank-. H. E. Parsons. No. 1,140,707; May 25; Gaz. vol. 214; p. 1156.
- Car, End-dump. O. F. Hart. No. 1,163,235; Dec. 7; Gaz. vol. 221; p. 175.
- Car end framing, O. Hochberg. No. 1,140,680; May 25; Gaz. vol. 214; p. 1148.
- Car end, Sheet-metal. I. S. Downing. No. 1,159,573; Nov. 9; Gaz. vol. 220; p. 438.
- Car end sill and end reinforcing frame, Combined. A. E. Lehmann. No. 1,124,038; Jan. 5; Gaz. vol. 210; p. 285.
- Car extension-step, Passenger-. N. J. Wood. No. 1,148,423; July 27; Gaz. vol. 216; p. 1276.
- Car-fender, W. C. Abbott. No. 1,156,737; Oct. 12; Gaz. vol. 219; p. 517.
- Car-fender, G. Bernauer. No. 1,164,592; Dec. 14; Gaz. vol. 221; p. 693.
- Car-fender, G. H. Bolduc. No. 1,128,577; Feb. 16; Gaz. vol. 211; p. 758.
- Car-fender, J. C. Harris. No. 1,133,136; Mar. 23; Gaz. vol. 212; p. 1286.
- Car-fender, E. G. Hill. No. 1,151,684; Aug. 31; Gaz. vol. 217; p. 1391.
- Car-fender, F. E. Hutchings. No. 1,133,287; Mar. 30; Gaz. vol. 212; p. 1375.
- Car-fender, H. A. Mullett. No. 1,142,834; June 15; Gaz. vol. 215; p. 688.
- Car-fender, A. L. Patterson and A. M. Ferguson. No. 1,125,877; Jan. 19; Gaz. vol. 210; p. 1023.
- Car-fender, H. N. Roth. No. 1,128,189; Feb. 9; Gaz. vol. 211; p. 576.
- Car-fender, H. T. Williams-Eaton. No. 1,130,651; Mar. 2; Gaz. vol. 212; p. 283.
- Car fender and brake, Combined. T. W. Bush. No. 1,136,586; Apr. 20; Gaz. vol. 213; p. 970.
- Car-fender, Automatic hinge. W. R. King. No. 1,159,048; Nov. 2; Gaz. vol. 220; p. 220.
- Car fender, Motor-. G. A. Parmenter. No. 1,153,566; Sept. 14; Gaz. vol. 218; p. 466.
- Car fender, Railway-. C. S. Ranghart. No. 1,136,641; Apr. 20; Gaz. vol. 213; p. 988.
- Car fender, Street-. H. W. Bodendieck. No. 1,154,686; Sept. 28; Gaz. vol. 218; p. 915.
- Car fender, Street-. J. B. Colvin. No. 1,137,699; Apr. 27; Gaz. vol. 213; p. 1398.
- Car fender, Street-. M. J. Novick. No. 1,165,201; Dec. 21; Gaz. vol. 221; p. 949.
- Car fender, Street-. R. H. Pogue. No. 1,155,682; Oct. 5; Gaz. vol. 219; p. 124.
- Car-fenders, Automatic tripping mechanism for. J. S. McWhirter. No. 1,163,764; Dec. 14; Gaz. vol. 221; p. 406.
- Car, Fish-. C. E. Barba. No. 1,156,515; Oct. 12; Gaz. vol. 219; p. 440.
- Car, Fish-. M. Wenig. No. 1,162,422; Nov. 30; Gaz. vol. 220; p. 1587.
- Car-floor, W. E. Fowler, Sr. No. 1,146,859; July 20; Gaz. vol. 216; p. 698.
- Car floor, Steel-. C. H. Anderson. No. 1,147,999; July 27; Gaz. vol. 216; p. 1125.
- Car for transporting cement and the like, Tank-. R. P. White. No. 1,165,736; Dec. 28; Gaz. vol. 221; p. 1175.
- Car-frame, W. M. Smith. No. 1,141,845; June 1; Gaz. vol. 215; p. 264.
- Car frame, Charging-. C. F. Frede. No. 1,165,959; Dec. 28; Gaz. vol. 221; p. 1250.
- Car-framework, E. Fosson. No. 1,144,378; June 29; Gaz. vol. 215; p. 1281.
- Car, Freight-. J. E. Hart. No. 1,146,159; July 13; Gaz. vol. 216; p. 434.
- Car, Freight-. W. T. Manning. No. 1,146,728; July 13; Gaz. vol. 216; p. 633.
- Car, Freight-. D. E. Peterson and I. B. Ritter. No. 1,132,876; Mar. 23; Gaz. vol. 212; p. 1191.
- Car, Freight and stock, J. B. Shelton. No. 1,143,234; June 15; Gaz. vol. 215; p. 831.
- Car friction-buffer, Railway-. J. F. O'Connor. No. 1,125,383; Jan. 19; Gaz. vol. 210; p. 850.
- Car friction-buffer, Railway-. J. F. O'Connor. No. 1,146,344; July 13; Gaz. vol. 216; p. 498.
- Car friction draft-gear, Railway-. J. F. O'Connor. No. 1,156,092; Oct. 12; Gaz. vol. 219; p. 293.
- Car friction draft-rigging, Railway-. J. F. O'Connor. No. 1,130,323; Mar. 2; Gaz. vol. 212; p. 167.
- Car, Gondola. C. H. Clark. No. 1,136,318; Apr. 20; Gaz. vol. 213; p. 873.
- Car, Gondola. S. Otis. No. 1,135,132; Apr. 13; Gaz. vol. 213; p. 419.
- Car grain-door, Freight-. G. H. Saltsgiver and J. H. Burke. No. 1,123,387; Jan. 5; Gaz. vol. 210; p. 65.
- Car, Grain-tight box-. P. Parke. No. 1,153,249; Sept. 14; Gaz. vol. 218; p. 350.
- Car guard, Safety motor-. H. E. Keffer. No. 1,150,124; Aug. 17; Gaz. vol. 217; p. 750.
- Car, Hand-. W. L. Daughtry. No. 1,144,819; June 29; Gaz. vol. 215; p. 1432.
- Car-haulage plant, P. J. Fickinger. No. 1,125,283; Jan. 19; Gaz. vol. 210; p. 813.
- Car-haulage plant, F. W. Lovell. No. 1,125,354; Jan. 19; Gaz. vol. 210; p. 830.
- Car-haulage plant, F. W. Lovell. No. 1,155,748; Oct. 5; Gaz. vol. 219; p. 147.
- Car-haulage system, M. D. Jones. No. 1,125,110; Jan. 19; Gaz. vol. 210; p. 749.
- Car-haulage system, F. W. Lovell. No. 1,125,355; Jan. 19; Gaz. vol. 210; p. 839.
- Car, Heater-. J. P. Elmer. No. 1,156,988; Oct. 19; Gaz. vol. 219; p. 635.
- Car-heater, W. R. McKeen, Jr., and B. Julien. No. 1,146,187; July 13; Gaz. vol. 216; p. 444.
- Car heater, Freight-. G. G. Bayne. No. 1,164,058; Dec. 14; Gaz. vol. 221; p. 509.
- Car heater, Motor-. C. S. Pelton. No. 1,148,617; Aug. 3; Gaz. vol. 217; p. 48.
- Car heating and ventilating system, E. Varner. No. 1,139,089; May 11; Gaz. vol. 214; p. 519.
- Car-heating system, J. M. Coleman. No. 1,145,673; July 6; Gaz. vol. 216; p. 243.
- Car-heating system, E. H. Gold. No. 1,162,767; Dec. 7; Gaz. vol. 221; p. 12.
- Car-heating system, W. C. Squire. No. 1,129,048; Feb. 16; Gaz. vol. 211; p. 925.
- Car-heating system, Postal-. E. H. Gold. No. 1,131,926; Mar. 16; Gaz. vol. 212; p. 795.
- Car-heating system, Railway-. H. H. Vaughan. No. 1,131,879; Mar. 16; Gaz. vol. 212; p. 778.
- Car, Hopper-. F. L. Barber and E. W. Webb. No. 1,134,251; Apr. 6; Gaz. vol. 213; p. 62.
- Car, Hopper-bottom. M. C. Blest. No. 1,160,827; Nov. 16; Gaz. vol. 220; p. 938.
- Car-indicator, H. A. Humphrey. No. 1,155,817; Oct. 5; Gaz. vol. 219; p. 172.
- Car indicator, Street-. T. E. Kearney and A. J. McFarlane. No. 1,129,987; Mar. 2; Gaz. vol. 212; p. 52.
- Car insulation, A. G. Brown. No. 1,156,206; Oct. 12; Gaz. vol. 219; p. 331.
- Car journal-box, Railway-. H. C. Stickel. No. 1,157,446; Oct. 19; Gaz. vol. 219; p. 798.
- Car journal-boxes, Dust-guard for. H. L. Haskell. No. 1,153,551; Sept. 14; Gaz. vol. 218; p. 461.
- Car-journal cooler, Automatic. R. S. Kinnear. No. 1,134,620; Apr. 6; Gaz. vol. 213; p. 195.
- Car-journals and the like, Cooling device for. A. D. Kessler. No. 1,155,932; Oct. 5; Gaz. vol. 219; p. 211.
- Car, Kiln-. C. E. Evans. No. 1,128,119; Feb. 9; Gaz. vol. 211; p. 551.
- Car, Kiln-. C. E. Evans. No. 1,165,163; Dec. 21; Gaz. vol. 221; p. 936.
- Car lever and flag-scabard, Combination hand-. G. Bardwell. No. 1,150,093; Aug. 17; Gaz. vol. 217; p. 739.
- Car-line circuits, Automatic electric coupling mechanism for. J. S. Doyle and F. Hedley. No. 1,166,194; Dec. 28; Gaz. vol. 221; p. 1336.
- Car loader, Box-. J. M. Christy. No. 1,131,038; Mar. 9; Gaz. vol. 212; p. 450.
- Car lubricator, Mine-. C. Goyne. No. 1,160,067; Nov. 9; Gaz. vol. 220; p. 613.
- Car, Metal passenger-. C. H. Anderson. No. 1,148,002; July 27; Gaz. vol. 216; p. 1126.
- Car, Mine tippie-. J. Cozilets. No. 1,141,442; June 1; Gaz. vol. 215; p. 127.
- Car, Mining-tool. E. Pyle. No. 1,126,862; Feb. 2; Gaz. vol. 211; p. 70.
- Car, Motor-. F. Kadlec. No. 1,141,248; June 1; Gaz. vol. 215; p. 56.
- Car-moving device. R. Laframboise. No. 1,134,466; Apr. 6; Gaz. vol. 213; p. 140.
- Car, Mule or pusher-. P. J. Fickinger. No. 1,162,760; Dec. 7; Gaz. vol. 221; p. 10.
- Car, Oil-tank. E. Martinson. No. 1,146,636; July 13; Gaz. vol. 216; p. 603.
- Car, Oil-tank. E. Martinson. No. 1,156,794; Oct. 12; Gaz. vol. 219; p. 535.
- Car-operating mechanism, Dump-. C. F. Frede and A. J. Dinkel. No. 1,126,972; Feb. 2; Gaz. vol. 211; p. 108.
- Car operation by vapor-converters, System of. P. H. Thomas. No. 1,157,823; Oct. 26; Gaz. vol. 219; p. 990.
- Car operation by vapor-converters, System of. P. H. Thomas. No. 1,157,824; Oct. 26; Gaz. vol. 219; p. 990.
- Car, Ore-. W. S. Atwood. No. 1,123,655; Jan. 5; Gaz. vol. 210; p. 157.
- Car, Ore-. A. Campbell. No. 1,133,614; Mar. 30; Gaz. vol. 212; p. 1493.
- Car, Ore-. W. C. Carr. No. 1,140,497; May 25; Gaz. vol. 214; p. 1087.
- Car, Ore dump-. A. R. Chambers. No. 1,135,993; Apr. 20; Gaz. vol. 213; p. 760.
- Car, Ore dump-. C. H. Clark. No. 1,136,316; Apr. 20; Gaz. vol. 213; p. 873.
- Car part, W. D. Forsyth. No. 1,125,292; Jan. 19; Gaz. vol. 210; p. 817.
- Car part, W. D. Forsyth. No. 1,125,293; Jan. 19; Gaz. vol. 210; p. 817.
- Car parts, Making. W. D. Forsyth. No. 1,125,291; Jan. 19; Gaz. vol. 210; p. 816.

Alphabetical list of inventions—Continued.

- Car parts, Making. W. D. Forsyth. No. 1,125,294; Jan. 19; Gaz. vol. 210; p. 817.
- Car parts, Making. W. D. Forsyth. No. 1,125,296; Jan. 19; Gaz. vol. 210; p. 818.
- Car parts, Making. W. D. Forsyth. No. 1,125,297; Jan. 19; Gaz. vol. 210; p. 818.
- Car parts, Making. W. D. Forsyth. No. 1,125,300; Jan. 19; Gaz. vol. 210; p. 819.
- Car, Passenger-. C. H. Anderson. No. 1,148,001; July 27; Gaz. vol. 216; p. 1126.
- Car, Passenger-. P. N. Jones. No. 1,130,296; Mar. 2; Gaz. vol. 212; p. 158.
- Car, Passenger-. P. N. Jones, F. R. Phillips, and J. W. Welsh. No. 1,150,680; Aug. 17; Gaz. vol. 217; p. 945.
- Car, Passenger-. G. B. Kohler. No. 1,152,108; Aug. 31; Gaz. vol. 217; p. 1539.
- Car, Passenger-. G. B. Kohler. No. 1,164,530; Dec. 14; Gaz. vol. 221; p. 674.
- Car, Passenger-. D. M. McGill. No. 1,161,942; Nov. 30; Gaz. vol. 220; p. 1422.
- Car, Passenger-. W. S. Menden. No. 1,142,263; June 8; Gaz. vol. 215; p. 451.
- Car-platform. F. D. Ross. No. 1,148,932; Aug. 3; Gaz. vol. 217; p. 159.
- Car platform, Passenger-. W. M. Smith. No. 1,161,903; Nov. 30; Gaz. vol. 220; p. 1407.
- Car-platforms, Auxiliary step for. J. R. Kunzelman. No. 1,133,043; Mar. 23; Gaz. vol. 212; p. 1254.
- Car-platforms, Auxiliary step for. J. R. Kunzelman. No. 1,141,064; May 25; Gaz. vol. 214; p. 1281.
- Car platforms, Trap-door for railway-. E. F. Chaffee. No. 1,140,951; May 25; Gaz. vol. 214; p. 1244.
- Car polling device, Railway-. R. Arthur. No. 1,157,492; Oct. 19; Gaz. vol. 219; p. 814.
- Car, Poultry-. W. P. Johnson. No. 1,159,843; Nov. 9; Gaz. vol. 220; p. 538.
- Car, Prepayment-. C. C. Hunnicke. No. 1,134,387; Apr. 6; Gaz. vol. 213; p. 110.
- Car-rails, Insert for holding. E. L. How. No. 1,155,658; Oct. 5; Gaz. vol. 219; p. 116.
- Car, Railway-. W. S. Atwood and F. Ditchfield. No. 1,125,932; Jan. 26; Gaz. vol. 210; p. 1075.
- Car, Railway-. L. B. Buchanan. No. 1,125,056; Jan. 19; Gaz. vol. 210; p. 731.
- Car, Railway-. G. W. Carr. No. 1,161,025; Nov. 23; Gaz. vol. 220; p. 1052.
- Car, Railway-. W. E. Fowler, Sr. No. 1,157,304; Oct. 19; Gaz. vol. 219; p. 748.
- Car, Railway-. F. H. Gibbs. No. 1,164,601; Dec. 14; Gaz. vol. 221; p. 696.
- Car, Railway-. E. L. Stephens. No. 1,131,618; Mar. 9; Gaz. vol. 212; p. 650.
- Car, Railway-. J. B. Strauss. No. 1,150,154; Aug. 17; Gaz. vol. 217; p. 762.
- Car, Railway freight-. R. W. Burnett and H. H. Vaughan. No. 1,130,791; Mar. 9; Gaz. vol. 212; p. 365.
- Car, Railway tank-. J. W. Van Dyke. No. 1,148,730; Aug. 3; Gaz. vol. 217; p. 89.
- Car-record apparatus, Manifold record for. J. W. Taylor and O. Beecham. No. 1,164,030; Dec. 14; Gaz. vol. 221; p. 499.
- Car recorder, Freight-. J. R. Vedder. No. 1,130,452; Mar. 2; Gaz. vol. 212; p. 214.
- Car-replacer. J. W. Cassity. No. 1,128,583; Feb. 16; Gaz. vol. 211; p. 761.
- Car-replacer. A. Duval. No. 1,135,882; Apr. 13; Gaz. vol. 213; p. 679.
- Car-replacer. T. J. Harleman. No. 1,164,512; Dec. 14; Gaz. vol. 221; p. 667.
- Car-replacer. W. W. Jones. No. 1,150,037; Aug. 17; Gaz. vol. 217; p. 719.
- Car-replacer. A. E. Lineberg. No. 1,137,641; Apr. 27; Gaz. vol. 213; p. 1381.
- Car-replacer. D. W. Martin. No. 1,134,212; Apr. 6; Gaz. vol. 213; p. 48.
- Car-replacer. L. McEntyre. No. 1,142,340; June 8; Gaz. vol. 215; p. 477.
- Car-replacer. J. A. Moynihan. No. 1,131,941; Mar. 16; Gaz. vol. 212; p. 800.
- Car-replacer. J. A. Moynihan. No. 1,155,431; Oct. 5; Gaz. vol. 219; p. 37.
- Car replacer and derail. B. L. Zeagler and C. L. Strykes. No. 1,140,933; May 25; Gaz. vol. 214; p. 1239.
- Car-replacer, Rigid-block. W. O. Bunnell and Q. A. Gates. No. 1,162,334; Nov. 30; Gaz. vol. 220; p. 1558.
- Car-replacing device. C. Desher. No. 1,164,580; Dec. 14; Gaz. vol. 221; p. 689.
- Car-replacing device. W. E. Lalley. No. 1,162,867; Dec. 7; Gaz. vol. 221; p. 47.
- Car-report blank, Interchange-. N. D. Ballantine. No. 1,155,540; Oct. 5; Gaz. vol. 219; p. 76.
- Car reversible seat, Street-. H. Wiesenfeld. No. 1,158,612; Nov. 2; Gaz. vol. 220; p. 72.
- Car roller-bearing. E. W. Webb. No. 1,137,038; Apr. 27; Gaz. vol. 213; p. 1167.
- Car roller side bearing, Railway-. E. G. Busse and E. A. Le Beau. No. 1,142,398; June 8; Gaz. vol. 215; p. 499.
- Car-roof. P. Bateman. No. 1,164,057; Dec. 14; Gaz. vol. 221; p. 509.
- Car-roof. W. A. Brewer. No. 1,130,370; Mar. 2; Gaz. vol. 212; p. 183.
- Car-roof. W. A. Brewer. No. 1,130,371; Mar. 2; Gaz. vol. 212; p. 184.
- Car-roof. W. A. Brewer. No. 1,145,545; July 6; Gaz. vol. 216; p. 199.
- Car-roof. R. C. Dudley. No. 1,133,372; Mar. 30; Gaz. vol. 212; p. 1405.
- Car-roof. A. Gall. No. 1,149,572; Aug. 10; Gaz. vol. 217; p. 489.
- Car-roof. G. H. Gilman and H. M. Robertson. No. 1,155,563; Oct. 5; Gaz. vol. 219; p. 83.
- Car-roof. S. Hansson and I. Moeller. No. 1,155,807; Oct. 5; Gaz. vol. 219; p. 169.
- Car-roof. D. W. Hawksworth. No. 1,126,760; Feb. 2; Gaz. vol. 211; p. 34.
- Car-roof. D. W. Hawksworth. No. 1,130,279; Mar. 2; Gaz. vol. 212; p. 152.
- Car-roof. D. W. Hawksworth. No. 1,130,280; Mar. 2; Gaz. vol. 212; p. 153.
- Car-roof. D. W. Hawksworth. No. 1,137,968; May 4; Gaz. vol. 214; p. 87.
- Car-roof. D. W. Hawksworth. No. 1,144,761; June 29; Gaz. vol. 215; p. 1412.
- Car-roof. S. Herbert. No. 1,144,762; June 29; Gaz. vol. 215; p. 1412.
- Car-roof. F. Jager. No. 1,126,638; Jan. 26; Gaz. vol. 210; p. 1333.
- Car-roof. O. B. Johnson. No. 1,151,468; Aug. 24; Gaz. vol. 217; p. 1269.
- Car-roof. G. R. Joughins. No. 1,136,962; Apr. 27; Gaz. vol. 213; p. 1139.
- Car-roof. F. A. Lester. No. 1,150,133; Aug. 17; Gaz. vol. 217; p. 753.
- Car-roof. J. L. Mohun. No. 1,155,604; Oct. 5; Gaz. vol. 219; p. 97.
- Car-roof. C. C. Murphy. No. 1,133,493; Mar. 30; Gaz. vol. 212; p. 1447.
- Car-roof. D. Murphy. No. 1,161,508; Nov. 23; Gaz. vol. 220; p. 1225.
- Car-roof. W. P. Murphy. No. 1,156,617; Oct. 12; Gaz. vol. 219; p. 476.
- Car-roof. J. E. O'Brien and C. Harter. No. 1,154,425; Sept. 21; Gaz. vol. 218; p. 796.
- Car-roof. H. J. Small and O. B. Schoenky. No. 1,128,067; Feb. 9; Gaz. vol. 211; p. 533.
- Car-roof. W. D. Thompson. No. 1,126,915; Feb. 2; Gaz. vol. 211; p. 88.
- Car-roof. W. D. Thompson and S. Otis. No. 1,156,944; Oct. 19; Gaz. vol. 219; p. 619.
- Car-roof construction. W. S. Bidle and J. A. Costello. No. 1,124,276; Jan. 12; Gaz. vol. 210; p. 417.
- Car-roof construction. W. E. Jr., and W. E. Fowler, Sr. No. 1,134,117; Apr. 6; Gaz. vol. 213; p. 12.
- Car-roof construction. F. Mathews. No. 1,137,347; Apr. 27; Gaz. vol. 213; p. 1281.
- Car-roof construction. W. H. Slatten and W. F. Nolan. No. 1,145,708; July 6; Gaz. vol. 216; p. 257.
- Car-roof construction. W. H. Slatten and W. F. Nolan. No. 1,149,093; Aug. 3; Gaz. vol. 217; p. 214.
- Car-roof construction, Railway-. E. W. Summers. No. 1,133,335; Mar. 30; Gaz. vol. 212; p. 1392.
- Car-roof. Flexible metallic. E. D. Campbell. No. 1,164,063; Dec. 14; Gaz. vol. 221; p. 512.
- Car-roof, Metal. W. A. Brewer. No. 1,130,372; Mar. 2; Gaz. vol. 212; p. 184.
- Car-roof, Metal. F. W. Martin. No. 1,155,596; Oct. 5; Gaz. vol. 219; p. 94.
- Car-roof, Metal. C. C. Murphy. No. 1,140,842; May 25; Gaz. vol. 214; p. 1204.
- Car-roof, Metal. W. P. Murphy. No. 1,133,495; Mar. 30; Gaz. vol. 212; p. 1448.
- Car-roof, Metal. W. P. Murphy. No. 1,139,363; May 11; Gaz. vol. 214; p. 614.
- Car-roof, Metal. W. P. Murphy. No. 1,156,616; Oct. 12; Gaz. vol. 219; p. 475.
- Car-roof, Metallic. C. L. Belcher. No. 1,164,062; Dec. 14; Gaz. vol. 221; p. 511.
- Car-roof, Metallic. H. H. Schroyer. No. 1,128,373; Feb. 16; Gaz. vol. 211; p. 687.
- Car roof, Railway-. R. W. Burnett. No. 1,152,072; Aug. 31; Gaz. vol. 217; p. 1527.
- Car-roofing. W. C. Maness. No. 1,132,952; Mar. 23; Gaz. vol. 212; p. 1220.
- Car running-gear. J. F. Fox. (Reissue.) No. 14,008; Nov. 9; Gaz. vol. 220; p. 634.
- Car safety apparatus, Railway-. B. F. Williams. No. 1,141,737; June 1; Gaz. vol. 215; p. 230.
- Car safety appliance, Railway-. B. Hoover. No. 1,134,335; Apr. 6; Gaz. vol. 213; p. 92.
- Car safety appliance, Railway-. T. B. La Rue. No. 1,152,823; Sept. 7; Gaz. vol. 218; p. 163.
- Car safety appliance, Railway-. S. B. Rieg. No. 1,143,648; June 22; Gaz. vol. 215; p. 998.
- Car safety device, Mine-. F. Davis. No. 1,132,914; Mar. 23; Gaz. vol. 212; p. 1204.
- Car safety device, Mine-. B. F. Fern. No. 1,165,659; Dec. 28; Gaz. vol. 221; p. 1147.
- Car safety device, Railway-. S. V. Sherwood. No. 1,142,635; June 8; Gaz. vol. 215; p. 580.
- Car safety foot-guard, Dump-. A. E. Zimmer. No. 1,164,902; Dec. 21; Gaz. vol. 221; p. 843.
- Car-seat. B. F. Fortiner. No. 1,164,637; Dec. 29; Gaz. vol. 221; p. 751.

Alphabetical list of inventions—Continued.

- Car-seat. U. Kawasaki. No. 1,143,831; June 22; Gaz. vol. 215; p. 1060.
- Car-seat. A. C. Rader. No. 1,142,203; June 8; Gaz. vol. 215; p. 429.
- Car-seat. J. E. Smith. No. 1,161,899; Nov. 30; Gaz. vol. 220; p. 1406.
- Car-seat and securing means therefor. A. F. Horton. No. 1,165,880; Dec. 28; Gaz. vol. 221; p. 1224.
- Car-seats, Series of reversible. S. Smith. No. 1,138,420; May 4; Gaz. vol. 214; p. 247.
- Car seating arrangement. T. H. Menchion. No. 1,148,917; Aug. 3; Gaz. vol. 217; p. 153.
- Car side bearing. B. D. Lockwood. No. 1,164,202; Dec. 14; Gaz. vol. 221; p. 557.
- Car side bearing. F. G. Susemihl. No. 1,132,749; Mar. 23; Gaz. vol. 212; p. 1144.
- Car side bearing. Antifriction railway-. E. S. Woods. No. 1,162,429; Nov. 30; Gaz. vol. 220; p. 1589.
- Car side bearing, Railway-. G. A. Johnson. No. 1,153,792; Sept. 14; Gaz. vol. 218; p. 544.
- Car side bearing, Railway-. E. A. Le Beau. No. 1,139,543; May 18; Gaz. vol. 214; p. 713.
- Car side bearing, Railway-. E. A. Le Beau and E. G. Busse. No. 1,166,058; Dec. 28; Gaz. vol. 221; p. 1284.
- Car side bearing, Railway-. J. F. O'Connor. No. 1,132,610; Mar. 23; Gaz. vol. 212; p. 1094.
- Car side bearing, Railway-. J. F. O'Connor. No. 1,153,699; Sept. 14; Gaz. vol. 218; p. 511.
- Car side construction. C. A. Lindstrom. No. 1,124,479; Jan. 12; Gaz. vol. 210; p. 491.
- Car-signal. W. B. Eichholtz and F. L. Winters. No. 1,134,827; Apr. 6; Gaz. vol. 213; p. 269.
- Car-signal. J. F. McElroy. No. 1,129,305; Feb. 23; Gaz. vol. 211; p. 1049.
- Car-signal. S. Wideman. No. 1,141,509; June 1; Gaz. vol. 215; p. 151.
- Car-signal, Automatic. J. T. Moyer. No. 1,142,605; June 8; Gaz. vol. 215; p. 570.
- Car signal, Motor-. J. C. Butler. No. 1,152,704; Sept. 7; Gaz. vol. 218; p. 119.
- Car signal, Railway-. J. E. Johnson. No. 1,152,094; Aug. 31; Gaz. vol. 217; p. 1534.
- Car signaling apparatus, Street-railway-. E. Morris. No. 1,132,864; Mar. 23; Gaz. vol. 212; p. 1137.
- Car signaling device. H. Rowntree. No. 1,134,640; Apr. 6; Gaz. vol. 213; p. 204.
- Car, Sleeping-. O. M. Donaldson. No. 1,135,268; Apr. 13; Gaz. vol. 213; p. 463.
- Car springs and other uses, Joint for motor-. J. C. Wettergreen. No. 1,148,880; Aug. 3; Gaz. vol. 217; p. 140.
- Car-stake. H. H. Finn. No. 1,163,746; Dec. 14; Gaz. vol. 221; p. 400.
- Car-stake. F. J. Libby. No. 1,129,834; Feb. 23; Gaz. vol. 211; p. 1230.
- Car-stake pocket. P. Nikolai. No. 1,154,719; Sept. 28; Gaz. vol. 218; p. 925.
- Car stake-pocket, Freight-. C. H. Vandonk. No. 1,156,566; Oct. 12; Gaz. vol. 219; p. 458.
- Car starter, Motor-. C. E. L. Lipman. No. 1,127,036; Feb. 2; Gaz. vol. 211; p. 132.
- Car starter, Motor-. A. A. P. Neel. No. 1,126,555; Jan. 26; Gaz. vol. 210; p. 1303.
- Car station-indicator. F. Marzert. No. 1,160,739; Nov. 16; Gaz. vol. 220; p. 907.
- Car. Steel. C. H. Anderson. No. 1,123,651; Jan. 5; Gaz. vol. 210; p. 155.
- Car. Steel passenger-. C. H. Anderson. No. 1,123,652; Jan. 5; Gaz. vol. 210; p. 156.
- Car. Steel passenger-. C. H. Anderson. No. 1,148,000; July 27; Gaz. vol. 216; p. 1125.
- Car. Steel-sheathed box-. W. E. Fowler, Sr. No. 1,151,351; Aug. 24; Gaz. vol. 217; p. 1231.
- Car-step. F. D. Blake. No. 1,136,583; Apr. 20; Gaz. vol. 213; p. 969.
- Car-step. A. Fuller. No. 1,146,559; July 13; Gaz. vol. 216; p. 576.
- Car-step. C. McKay. No. 1,145,779; July 6; Gaz. vol. 216; p. 282.
- Car-step attachment. J. A. Chapman. No. 1,129,956; Mar. 2; Gaz. vol. 212; p. 42.
- Car-step, Extensible. C. W. Seitz. No. 1,129,238; Feb. 23; Gaz. vol. 211; p. 1025.
- Car-step, Extension. F. W. Chickering. No. 1,148,356; July 27; Gaz. vol. 216; p. 1254.
- Car-step, Extension. F. W. Cram. No. 1,165,761; Dec. 28; Gaz. vol. 221; p. 1184.
- Car-step, Extension. C. E. Gauthier. No. 1,130,390; Mar. 2; Gaz. vol. 212; p. 191.
- Car-step, Extension. I. C. Parrott. No. 1,163,106; Dec. 7; Gaz. vol. 221; p. 129.
- Car-step, Extension. J. N. Stokes. No. 1,159,288; Nov. 2; Gaz. vol. 220; p. 305.
- Car-step, Extension. S. J. Swanson. No. 1,138,998; May 11; Gaz. vol. 214; p. 488.
- Car-step, Extension. J. F. Thompson. No. 1,128,027; Feb. 16; Gaz. vol. 211; p. 916.
- Car-step, Extension. B. Underwood. No. 1,140,547; May 25; Gaz. vol. 214; p. 1104.
- Car-step, Folding. S. A. Campbell. No. 1,156,752; Oct. 12; Gaz. vol. 219; p. 522.
- Car-step, Folding. J. A. Maynard. No. 1,149,934; Aug. 10; Gaz. vol. 217; p. 622.
- Car-step, Folding. H. F. Schrage. No. 1,135,141; Apr. 13; Gaz. vol. 213; p. 422.
- Car-step, Folding and extension. J. S. Coxey. No. 1,141,615; June 1; Gaz. vol. 215; p. 188.
- Car-step, Folding double. H. G. Rego. No. 1,138,975; May 11; Gaz. vol. 214; p. 478.
- Car-step, Swinging reversible. F. J. Velox. No. 1,149,482; Aug. 10; Gaz. vol. 217; p. 456.
- Car-steps, Extension. G. E. Quiggle. No. 1,143,433; June 15; Gaz. vol. 215; p. 901.
- Car-steps, Folding. A. F. Biltgen. No. 1,136,581; Apr. 20; Gaz. vol. 213; p. 968.
- Car stop, Mine-. J. T. Pero. No. 1,126,562; Jan. 26; Gaz. vol. 210; p. 1306.
- Car-stopping apparatus, Motor-. P. Ghinelli and A. Buchignani. No. 1,132,332; Mar. 16; Gaz. vol. 212; p. 944.
- Car street-indicator. G. Rutters. No. 1,153,421; Sept. 14; Gaz. vol. 218; p. 413.
- Car tandem-spring draft-rigging, Railway-. W. H. Miner and J. F. O'Connor. No. 1,136,030; Apr. 20; Gaz. vol. 213; p. 773.
- Car, Tank-. G. P. Binder. No. 1,140,656; May 25; Gaz. vol. 214; p. 1140.
- Car, Tank-. J. Greer. No. 1,163,144; Dec. 7; Gaz. vol. 221; p. 143.
- Car, Tank-. W. J. Knox. No. 1,154,324; Sept. 21; Gaz. vol. 218; p. 762.
- Car time-finder. G. F. Wakefield. No. 1,153,471; Sept. 14; Gaz. vol. 218; p. 430.
- Car, Track-scale test-. A. H. Emery. No. 1,124,217; Jan. 5; Gaz. vol. 210; p. 348.
- Car, Transfer-. J. A. Gunn. No. 1,139,411; May 11; Gaz. vol. 214; p. 631.
- Car transferring and dumping mechanism. J. E. Chinnock. No. 1,126,392; Jan. 26; Gaz. vol. 210; p. 1242.
- Car truck-bolster, Railway-. J. A. Pilcher. No. 1,147,748; July 27; Gaz. vol. 216; p. 1037.
- Car-uncoupling device. A. E. Ostrander. No. 1,140,706; May 25; Gaz. vol. 214; p. 1156.
- Car uncoupling device, Railway-. E. Jones. No. 1,124,027; Jan. 5; Gaz. vol. 210; p. 281.
- Car-underframe. F. L. Barber and E. W. Webb. No. 1,126,343; Jan. 26; Gaz. vol. 210; p. 1225.
- Car-underframe. E. B. Bergendahl. No. 1,141,084; May 25; Gaz. vol. 214; p. 1287.
- Car-underframe. S. Hansson and I. Moeller. No. 1,164,644; Dec. 21; Gaz. vol. 221; p. 753.
- Car-underframe. C. A. Lindström and B. D. Lockwood. No. 1,159,398; Nov. 9; Gaz. vol. 220; p. 376.
- Car-underframe. A. E. Ostrander. No. 1,149,400; Aug. 10; Gaz. vol. 217; p. 428.
- Car-underframe. J. M. Rohlfing. No. 1,164,019; Dec. 14; Gaz. vol. 221; p. 495.
- Car-underframe. R. V. Sage. No. 1,128,054; Feb. 9; Gaz. vol. 211; p. 528.
- Car underframe, Railway-. P. M. Beard. No. 1,164,060; Dec. 14; Gaz. vol. 221; p. 510.
- Car underframe, Railway-. C. E. Dath. No. 1,128,298; Feb. 16; Gaz. vol. 211; p. 664.
- Car underframe, Railway-. P. M. Kling. No. 1,128,331; Feb. 16; Gaz. vol. 211; p. 674.
- Car underframe, Railway-. C. A. Lindström. No. 1,164,731; Dec. 21; Gaz. vol. 221; p. 783.
- Car underframe, Railway-. B. D. Lockwood. No. 1,157,707; Oct. 26; Gaz. vol. 219; p. 951.
- Car underframe, Railway-. J. F. O'Connor. No. 1,139,059; May 11; Gaz. vol. 214; p. 510.
- Car underframe, Railway-. C. T. Westlake and C. F. Frede. No. 1,146,220; July 13; Gaz. vol. 216; p. 456.
- Car-underframe structure. J. C. Barber. No. 1,138,615; May 11; Gaz. vol. 214; p. 350.
- Car-underframe structure, Flat-. J. C. Barber. No. 1,126,345; Jan. 26; Gaz. vol. 210; p. 1226.
- Car unloader, Box-. W. H. McGann. No. 1,146,267; July 13; Gaz. vol. 216; p. 472.
- Car unloader, Half-. M. P. and P. Scardino. No. 1,128,258; Feb. 9; Gaz. vol. 211; p. 598.
- Car-unloading apparatus. E. C. Gledhill. No. 1,126,748; Feb. 2; Gaz. vol. 211; p. 30.
- Car-unloading machine. M. B. Jennings. No. 1,140,461; May 25; Gaz. vol. 214; p. 1072.
- Car-ventilating system. D. I. Cooke. No. 1,145,868; July 6; Gaz. vol. 216; p. 312.
- Car-ventilating system. D. I. Cooke. No. 1,145,869; July 6; Gaz. vol. 216; p. 313.
- Car-ventilator. J. A. Dennis. No. 1,123,859; Jan. 5; Gaz. vol. 210; p. 226.
- Car-ventilator. W. T. Manning. No. 1,128,166; Feb. 9; Gaz. vol. 211; p. 567.
- Car-ventilator. W. E. McMullin. No. 1,142,110; June 8; Gaz. vol. 215; p. 397.
- Car-vestibule diaphragm. H. H. Schroyer. No. 1,125,740; Jan. 19; Gaz. vol. 210; p. 976.
- Car vestibule-diaphragm, Railway-. G. H. Sherwood. No. 1,143,734; June 22; Gaz. vol. 215; p. 1026.
- Car-vestibule door and trap. C. E. Griffith. No. 1,152,626; Sept. 7; Gaz. vol. 218; p. 91.
- Car, Water-. E. F. Ruffat. No. 1,162,565; Nov. 30; Gaz. vol. 220; p. 1636.
- Car-weighting apparatus. A. W. Epright. No. 1,142,407; June 8; Gaz. vol. 215; p. 503.

Alphabetical list of inventions—Continued.

- Car-wheel. P. Seidel. No. 1,136,839; Apr. 20; Gaz. vol. 213; p. 1059.
- Car-wheel. F. D. Ward. No. 1,163,721; Dec. 14; Gaz. vol. 221; p. 391.
- Car wheel and axle. W. A. Dorsey. No. 1,129,855; Mar. 2; Gaz. vol. 212; p. 8.
- Car wheel and axle. O. A. Eyerman and M. W. Himmler. No. 1,155,557; Oct. 5; Gaz. vol. 219; p. 81.
- Car wheel and axle. J. W. McCoy. No. 1,133,986; Mar. 30; Gaz. vol. 212; p. 1620.
- Car wheel and axle. Mine. F. A. Sweet. No. 1,141,990; June 8; Gaz. vol. 215; p. 353.
- Car-wheel bushing. Mine. C. A. Specht. No. 1,154,345; Sept. 21; Gaz. vol. 218; p. 769.
- Car-wheel, Compound. H. R. Keithley. No. 1,149,267; Aug. 10; Gaz. vol. 217; p. 381.
- Car-wheel, Differential. C. H. Schreiber, Jr. No. 1,163,781; Dec. 14; Gaz. vol. 221; p. 412.
- Car-wheel lubricator. Automatic. B. F. Smith. No. 1,125,750; Jan. 19; Gaz. vol. 210; p. 980.
- Car-wheel-making apparatus. C. W. Sherman. No. 1,149,410; Aug. 10; Gaz. vol. 217; p. 432.
- Car wheel, Mine. J. Coan. No. 1,164,470; Dec. 14; Gaz. vol. 221; p. 653.
- Car wheel, Mine. W. D. Hockensmith. No. 1,154,990; Sept. 23; Gaz. vol. 218; p. 1017.
- Car wheel, Mine. H. A. Holzer. No. 1,144,302; June 22; Gaz. vol. 215; p. 1226.
- Car wheel, Motor. F. Ilsemann. No. 1,126,474; Jan. 26; Gaz. vol. 210; p. 1271.
- Car-wheels, Forging steel. E. Ramsden. No. 1,132,213; Mar. 16; Gaz. vol. 212; p. 900.
- Car-wheels, Method and apparatus for producing cast-steel. C. G. Robinson and J. E. Schlieper. No. 1,153,258; Sept. 14; Gaz. vol. 218; p. 353.
- Car-window. G. B. Kohler. No. 1,162,494; Nov. 30; Gaz. vol. 220; p. 1613.
- Car-window cleaner. A. Johnson. No. 1,134,861; Apr. 6; Gaz. vol. 213; p. 279.
- Car-window cleaner. E. J. Martin. No. 1,153,095; Sept. 7; Gaz. vol. 218; p. 259.
- Car-window dust-guard. H. H. Schroyer. No. 1,126,883; Feb. 2; Gaz. vol. 211; p. 78.
- Car-window guard, Passenger. T. Elliott. No. 1,148,012; July 27; Gaz. vol. 216; p. 1130.
- Car windows, Ventilator for. C. L. Harrison. No. 1,150,002; Aug. 10; Gaz. vol. 217; p. 646.
- Cars, Adjustable side bearing for railway. J. F. O'Connor. No. 1,139,061; May 11; Gaz. vol. 214; p. 510.
- Cars, Air-motor for fans for railway. G. Festa. No. 1,133,117; Mar. 23; Gaz. vol. 212; p. 1279.
- Cars and flying-machines, Steering-wheel for motor. W. Wolff. No. 1,131,888; Mar. 16; Gaz. vol. 212; p. 781.
- Cars and other vehicles and traveling-machines, Spring suspension for motor. J. A. Shearer. No. 1,126,304; Jan. 26; Gaz. vol. 210; p. 1211.
- Cars and other vehicles, Spring suspension-gear for motor. J. A. Shearer. No. 1,160,775; Nov. 16; Gaz. vol. 220; p. 919.
- Cars and other vehicles, Underpan for motor. A. P. Brush. No. 1,163,317; Dec. 7; Gaz. vol. 221; p. 204.
- Cars and similar road-vehicles, Resilient suspension device for the bodies of motor. V. R. Collard. No. 1,131,118; Mar. 9; Gaz. vol. 212; p. 477.
- Cars and similar structures, Trap-door for railway. R. T. Axe. No. 1,138,070; May 4; Gaz. vol. 214; p. 123.
- Cars and the like, Brake means for railway. W. J. Miller. No. 1,158,706; Nov. 2; Gaz. vol. 220; p. 103.
- Cars and the like, Door-operating mechanism for. W. E. Erwin, J. N. Lloyd, M. D. Mann, Jr., and R. L. Winchell. No. 1,142,408; June 8; Gaz. vol. 215; p. 503.
- Cars and the like, Sewage system for railway. A. C. Clarke. No. 1,155,550; Oct. 5; Gaz. vol. 219; p. 79.
- Cars and the like, Underframe center-sill construction for. O. S. Pulliam. No. 1,159,534; Nov. 9; Gaz. vol. 220; p. 423.
- Cars and trains, Regenerative system for stopping and starting. W. H. Knight. No. 1,134,682; Apr. 6; Gaz. vol. 213; p. 218.
- Cars, Antitelescoping device for railway. I. H. Milliken. No. 1,148,038; July 27; Gaz. vol. 216; p. 1140.
- Cars, Automatic advertising device for street. J. W. Provard. No. 1,129,518; Feb. 23; Gaz. vol. 211; p. 1124.
- Cars, Automatic brake for railway. H. Harder. No. 1,127,886; Feb. 9; Gaz. vol. 211; p. 470.
- Cars, Automatic electrical-wire coupling for. H. S. Kimmel. No. 1,154,027; Sept. 21; Gaz. vol. 218; p. 660.
- Cars, Automatic uncoupler for. G. J. Janovisk. No. 1,144,709; June 29; Gaz. vol. 215; p. 1393.
- Cars, Bottom door-guide for freight. J. M. Hopkins. No. 1,146,073; July 13; Gaz. vol. 216; p. 404.
- Cars, Buffing mechanism for railway. W. H. Miner. No. 1,142,832; June 15; Gaz. vol. 215; p. 687.
- Cars, Card-box for railway. T. B. Hunt. No. 1,130,291; Mar. 2; Gaz. vol. 212; p. 156.
- Cars, Chain coupling for. N. D. Scott. No. 1,132,625; Mar. 23; Gaz. vol. 212; p. 1099.
- Cars, Chest for motor. C. A. Hawkins. No. 1,146,759; July 13; Gaz. vol. 216; p. 644.
- Cars, Coasting-registering mechanism for electric. G. H. Hill. No. 1,133,028; Mar. 23; Gaz. vol. 212; p. 1248.
- Cars, Combined buffer-beam and end reinforcement for. A. E. Lehmann. No. 1,124,040; Jan. 5; Gaz. vol. 210; p. 286.
- Cars, Combined folding door-step and seat for. C. G. Weatherly. No. 1,140,641; May 25; Gaz. vol. 214; p. 1136.
- Cars, Combined front-axle support and shock-absorber for motor. B. Monnich. No. 1,147,744; July 27; Gaz. vol. 216; p. 1036.
- Cars, Deck-sash for railway. H. H. Schroyer. No. 1,151,724; Aug. 31; Gaz. vol. 217; p. 1405.
- Cars, Detachable wheel for motor. H. Mayer and G. Schlatter. No. 1,142,113; June 8; Gaz. vol. 215; p. 398.
- Cars, Device for regulating the speed of motor. J. G. Wallmann. No. 1,160,472; Nov. 16; Gaz. vol. 220; p. 809.
- Cars, Device for securing petrol-cans or the like to motor. H. Lindblom. No. 1,158,247; Oct. 26; Gaz. vol. 219; p. 1139.
- Cars, Device to prevent theft from. R. R. Brown. No. 1,160,835; Nov. 16; Gaz. vol. 220; p. 941.
- Cars, Direct steam-heating system for railway. R. M. Dixon. No. 1,149,740; Aug. 10; Gaz. vol. 217; p. 551.
- Cars, Discharge appliance for railway tank. C. M. Bloxham. No. 1,135,254; Apr. 13; Gaz. vol. 213; p. 459.
- Cars, Discharge appliance for railway tank. A. E. Smith. No. 1,136,375; Apr. 20; Gaz. vol. 213; p. 894.
- Cars, Draft-arm and carry-iron for railway. B. J. Bernhard. No. 1,163,802; Dec. 14; Gaz. vol. 221; p. 420.
- Cars, Draft-plate for railway. H. I. Wrigley. No. 1,164,696; Dec. 21; Gaz. vol. 221; p. 772.
- Cars, Drop-door-operating mechanism for dumping. R. R. Weaver. No. 1,124,188; Jan. 5; Gaz. vol. 210; p. 337.
- Cars, Electric-lighting system for. J. L. Creveling. No. 1,145,468; July 6; Gaz. vol. 216; p. 174.
- Cars, Electropneumatic brake for railway. J. S. Doyle. No. 1,141,109; June 1; Gaz. vol. 215; p. 7.
- Cars, Equalizing draft-gear for railway. E. A. Nix and E. C. Roddie. No. 1,144,231; June 22; Gaz. vol. 215; p. 1202.
- Cars, Generator mounting and drive for railway. W. I. Thomson. No. 1,154,671; Sept. 28; Gaz. vol. 218; p. 911.
- Cars, Grip for cable. A. E. Norris. No. 1,154,652; Sept. 28; Gaz. vol. 218; p. 903.
- Cars, Ice-cutter for railway. J. J. Carnes and W. T. Strong. No. 1,148,754; Aug. 3; Gaz. vol. 217; p. 98.
- Cars in tipples, Means for clamping. W. K. Monroe. No. 1,126,550; Jan. 26; Gaz. vol. 210; p. 1301.
- Cars, Latitudinal running-board extension for freight. W. A. Brewer. No. 1,145,549; July 6; Gaz. vol. 216; p. 201.
- Cars, Liquid-fuel control for motor. J. G. Wallmann. No. 1,124,564; Jan. 12; Gaz. vol. 210; p. 521.
- Cars, Locking device for dumping-doors of self-unloading. K. Barth. No. 1,159,349; Nov. 9; Gaz. vol. 220; p. 358.
- Cars, Manufacturing a draft-yoke for railway. O. C. Cromwell. No. 1,125,664; Jan. 19; Gaz. vol. 210; p. 949.
- Cars, Manufacturing a draft-yoke for railway. G. A. Johnson. No. 1,125,108; Jan. 19; Gaz. vol. 210; p. 749.
- Cars, Means for connecting the draft-yoke to the draw-bar in railway. J. F. O'Connor. No. 1,160,642; Nov. 16; Gaz. vol. 220; p. 872.
- Cars, Means for supporting face-plates in railway. W. A. Geiger. No. 1,123,271; Jan. 5; Gaz. vol. 210; p. 23.
- Cars, Metal roof for railway. W. A. Brewer. No. 1,145,546; July 6; Gaz. vol. 216; p. 200.
- Cars, Money-deliverer for street. W. S. Overlin. No. 1,145,700; July 6; Gaz. vol. 216; p. 254.
- Cars, Nailless grain-door for. J. A. McNulty. No. 1,143,219; June 15; Gaz. vol. 215; p. 826.
- Cars of metal construction, Heating system for railway. E. H. Gold. No. 1,131,927; Mar. 16; Gaz. vol. 212; p. 796.
- Cars or other purposes, Divided door for street. J. B. Burdett. No. 1,134,668; Apr. 6; Gaz. vol. 213; p. 214.
- Cars or trains, Centrally-controlled coasting-indicating device for. W. A. and C. W. Hall. No. 1,165,592; Dec. 28; Gaz. vol. 221; p. 1122.
- Cars, Pivoted step for passenger. G. B. Kohler. No. 1,164,363; Dec. 14; Gaz. vol. 221; p. 616.
- Cars, Pneumatic jack for motor. E. B. Blakey and R. B. McCollum. No. 1,130,884; Mar. 9; Gaz. vol. 212; p. 398.
- Cars, Portable snow-scraper for trolley. N. Darols. No. 1,142,677; June 8; Gaz. vol. 215; p. 584.
- Cars, Power attachment for motor. A. M. McGill and L. B. Howland. No. 1,156,418; Oct. 12; Gaz. vol. 219; p. 406.
- Cars, Reicing. P. H. Tobin. No. 1,140,215; May 18; Gaz. vol. 214; p. 951.
- Cars, Reinforcing corner-bracket for. A. E. Lehmann. No. 1,124,039; Jan. 5; Gaz. vol. 210; p. 285.
- Cars, Revolving turret for motor. J. W. De Cou. No. 1,140,364; May 25; Gaz. vol. 214; p. 1037.
- Cars, Route-sign for street. H. E. Chubbuck. No. 1,142,491; June 8; Gaz. vol. 215; p. 532.
- Cars, Safety device for bridging freight. J. H. Fallon. No. 1,160,587; Nov. 16; Gaz. vol. 220; p. 851.

Alphabetical list of inventions—Continued.

- Cars, Safety device for mining. W. Kowalski. No. 1,159,050; Nov. 2; Gaz. vol. 220; p. 221.
- Cars, Sanding device for street. W. A. Sault. No. 1,140,618; May 25; Gaz. vol. 214; p. 1128.
- Cars, Sanitary drainage-retaining device for railway. J. C. Duner. No. 1,158,992; Nov. 2; Gaz. vol. 220; p. 202.
- Cars, Sliding door for pressed-steel freight. C. H. Andrus. No. 1,149,319; Aug. 10; Gaz. vol. 217; p. 400.
- Cars, Starting-gear for motor. F. Wullyamoz. No. 1,166,105; Dec. 28; Gaz. vol. 221; p. 1301.
- Cars, Station-indicator for. J. Paluch and J. Pañitzko. No. 1,147,970; July 27; Gaz. vol. 216; p. 1115.
- Cars, Steel end for. W. E. Williams. No. 1,129,769; Feb. 23; Gaz. vol. 211; p. 1207.
- Cars, Steel platform for wood-sill passenger-equipment. G. A. Johnson. No. 1,128,319; Feb. 16; Gaz. vol. 211; p. 670.
- Cars, Steel roof for freight. W. E. Symons. No. 1,157,339; Oct. 19; Gaz. vol. 219; p. 760.
- Cars, Steering-wheel for motor. T. W. McKenzie. No. 1,160,738; Nov. 16; Gaz. vol. 220; p. 907.
- Cars, Step-operating means controlling starting of electric. J. A. Van Groos and O. G. Gilstrap. No. 1,132,134; Mar. 16; Gaz. vol. 212; p. 871.
- Cars, Step raising and lowering device for railway. E. M. Moller. No. 1,163,359; Dec. 7; Gaz. vol. 221; p. 219.
- Cars, Support for running-boards of freight. W. A. Brewer. No. 1,145,548; July 6; Gaz. vol. 216; p. 200.
- Cars, Suspension device of motors on tramway or railway motor. C. Delmez. No. 1,136,779; Apr. 20; Gaz. vol. 213; p. 1037.
- Cars, Telephone attachment for. M. J. Bartol. No. 1,123,979; Jan. 5; Gaz. vol. 210; p. 265.
- Cars to tipples, Means for bringing up. E. G. Deucher. No. 1,165,947; Dec. 28; Gaz. vol. 221; p. 1247.
- Cars, Train-pipe and means for securing the same to railway. I. S. Downing. No. 1,151,092; Aug. 24; Gaz. vol. 217; p. 1143.
- Cars, Trap-door for platforms of vestibule railway. W. L. Conwell. No. 1,125,065; Jan. 19; Gaz. vol. 210; p. 734.
- Cars, Trap-door for railway. R. T. Axe. No. 1,144,983; June 29; Gaz. vol. 215; p. 1486.
- Cars upon mining-cages, Automatic releasing device for. S. Galli. No. 1,150,819; Aug. 17; Gaz. vol. 217; p. 992.
- Cars, Upper buffing mechanism for railway. L. J. Berg. No. 1,137,734; May 4; Gaz. vol. 214; p. 5.
- Cars, Vertically-adjustable brake-staff for. W. J. Gratrlick and J. F. Ferguson. No. 1,145,191; July 6; Gaz. vol. 216; p. 76.
- Cars, Weed-cutter attachment for hand. S. S. Button and J. A. McTaggart. No. 1,160,838; Nov. 16; Gaz. vol. 220; p. 942.
- Cars, Window for vestibules of street. C. H. Anderson and T. Elliott. No. 1,153,008; Sept. 7; Gaz. vol. 218; p. 230.
- Carbid-container, Multiple. A. L. Hansen. No. 1,137,755; May 4; Gaz. vol. 214; p. 12.
- Carbid-holder. W. L. Cash and I. B. Crowe. No. 1,164,465; Dec. 14; Gaz. vol. 221; p. 651.
- Carbid, Manufacturing. H. L. Hartenstein. No. 1,152,506; Sept. 7; Gaz. vol. 218; p. 45.
- Carbids of silicon and by-products, Producing. S. Peacock. No. 1,134,081; Mar. 30; Gaz. vol. 212; p. 1653.
- Carbon articles, Cementing. J. W. Brown. No. 1,158,171; Oct. 26; Gaz. vol. 219; p. 1114.
- Carbon articles, Quick graphitization of. J. W. Brown. No. 1,133,259; Mar. 30; Gaz. vol. 212; p. 1365.
- Carbon-assorting device. A. M. De Jeu. No. 1,123,703; Jan. 5; Gaz. vol. 210; p. 172.
- Carbon-black, Apparatus for making. G. L. Cabot. No. 1,162,131; Nov. 30; Gaz. vol. 220; p. 1488.
- Carbon compounds, Effecting dissociative reactions upon. W. O. Snelling. No. 1,124,347; Jan. 12; Gaz. vol. 210; p. 443.
- Carbon dioxide and solid sodium sulfite, Making. H. Howard. No. 1,164,649; Dec. 21; Gaz. vol. 221; p. 755.
- Carbon from pressed bodies of tungsten, Removing. F. Blau. No. 1,135,154; Apr. 13; Gaz. vol. 213; p. 427.
- Carbon-holder. W. W. Wile. No. 1,127,558; Feb. 9; Gaz. vol. 211; p. 353.
- Carbon in porous substances, Depositing. W. A. Beatty. No. 1,158,965; Nov. 2; Gaz. vol. 220; p. 193.
- Carbon, Manufacture of pure. H. Hennebutte. No. 1,155,419; Oct. 5; Gaz. vol. 219; p. 33.
- Carbon monoxid from carbon dioxide, Producing. C. B. Hillhouse. No. 1,163,922; Dec. 14; Gaz. vol. 221; p. 461.
- Carbon-remover. L. Bundy. No. 1,125,003; Jan. 12; Gaz. vol. 210; p. 678.
- Carbon-sheet. J. A. B. Smith. No. 1,133,331; Mar. 30; Gaz. vol. 212; p. 1390.
- Carbonaceous wastes, Utilization of. J. M. W. Kitchen. No. 1,127,777; Feb. 9; Gaz. vol. 211; p. 431.
- Carbonating apparatus, Liquid. A. R. Gross. No. 1,136,004; Apr. 20; Gaz. vol. 213; p. 764.
- Carbonating apparatus, Liquid. M. Stühler. No. 1,126,662; Jan. 26; Gaz. vol. 210; p. 1341.
- Carbonator for soda-fountains. S. L. Brown. No. 1,143,941; June 22; Gaz. vol. 215; p. 1098.
- Carbonators, Mixing-tank for. H. M. Smith. No. 1,165,210; Dec. 21; Gaz. vol. 221; p. 953.
- Carbonitrids, Producing. S. Peacock. No. 1,137,524; Apr. 27; Gaz. vol. 213; p. 1342.
- Carbonizing or pack-hardening box. M. D. Wilbur. No. 1,156,647; Oct. 12; Gaz. vol. 219; p. 487.
- Carborundum or emery wheels, Cutting surfaces on. T. W. Alm. No. 1,135,978; Apr. 20; Gaz. vol. 213; p. 755.
- Carboy-protector. L. A. Miller. No. 1,159,698; Nov. 9; Gaz. vol. 220; p. 483.
- Carbureter. R. Abell. No. 1,158,359; Oct. 26; Gaz. vol. 219; p. 1178.
- Carbureter. G. A. F. Ahlberg. No. 1,138,829; May 11; Gaz. vol. 214; p. 428.
- Carbureter. H. W. Allen. No. 1,140,232; May 18; Gaz. vol. 214; p. 956.
- Carbureter. M. W. Alley. No. 1,163,581; Dec. 7; Gaz. vol. 221; p. 296.
- Carbureter. E. H. Arqueembourg. No. 1,166,308; Dec. 28; Gaz. vol. 221; p. 1378.
- Carbureter. M. E. Babbitt and J. F. Beaumont. No. 1,133,452; Mar. 30; Gaz. vol. 212; p. 1434.
- Carbureter. B. G. Baker. No. 1,142,793; June 15; Gaz. vol. 215; p. 674.
- Carbureter. F. Balassa. No. 1,151,989; Aug. 31; Gaz. vol. 217; p. 1497.
- Carbureter. L. T. Barnes. No. 1,134,365; Apr. 6; Gaz. vol. 213; p. 103.
- Carbureter. L. T. Barnes. No. 1,134,366; Apr. 6; Gaz. vol. 213; p. 103.
- Carbureter. M. F. Bates. No. 1,160,239; Nov. 16; Gaz. vol. 220; p. 728.
- Carbureter. W. D. Reamer and J. F. Duffy. No. 1,131,312; Mar. 9; Gaz. vol. 212; p. 544.
- Carbureter. W. D. Reamer and J. F. Duffy. No. 1,161,437; Nov. 23; Gaz. vol. 220; p. 1201.
- Carbureter. H. H. Bell. No. 1,147,672; July 20; Gaz. vol. 216; p. 985.
- Carbureter. A. C. Bennett. No. 1,123,469; Jan. 5; Gaz. vol. 210; p. 93.
- Carbureter. A. C. Bennett. No. 1,130,700; Mar. 9; Gaz. vol. 212; p. 335.
- Carbureter. A. C. Bennett. No. 1,133,527; Mar. 30; Gaz. vol. 212; p. 1461.
- Carbureter. A. C. Bennett. No. 1,136,997; Apr. 27; Gaz. vol. 213; p. 1152.
- Carbureter. E. A. Bessom and R. M. Anderson. No. 1,134,942; Apr. 6; Gaz. vol. 213; p. 306.
- Carbureter. T. Beucus. No. 1,126,690; Feb. 2; Gaz. vol. 211; p. 7.
- Carbureter. B. H. Biays. No. 1,166,173; Dec. 28; Gaz. vol. 221; p. 1328.
- Carbureter. W. O. Ringaman. No. 1,151,156; Aug. 24; Gaz. vol. 217; p. 1166.
- Carbureter. R. Bjorklund. No. 1,161,374; Nov. 23; Gaz. vol. 220; p. 1179.
- Carbureter. J. O. Blomquist. No. 1,157,363; Oct. 19; Gaz. vol. 219; p. 768.
- Carbureter. T. F. Bourne. No. 1,158,435; Nov. 2; Gaz. vol. 220; p. 8.
- Carbureter. W. L. Breath. No. 1,153,891; Sept. 21; Gaz. vol. 218; p. 614.
- Carbureter. G. A. Breeze. No. 1,159,167; Nov. 2; Gaz. vol. 220; p. 262.
- Carbureter. G. M. Brown. No. 1,151,159; Aug. 24; Gaz. vol. 217; p. 1167.
- Carbureter. A. P. Brush. No. 1,130,474; Mar. 2; Gaz. vol. 212; p. 222.
- Carbureter. D. D. Bulck. No. 1,162,680; Nov. 30; Gaz. vol. 220; p. 1672.
- Carbureter. T. J. Burnham. No. 1,160,837; Nov. 16; Gaz. vol. 220; p. 941.
- Carbureter. J. W. T. Cadett. No. 1,165,224; Dec. 21; Gaz. vol. 221; p. 958.
- Carbureter. J. C. Carpenter. No. 1,153,999; Sept. 21; Gaz. vol. 218; p. 649.
- Carbureter. A. Černý. No. 1,157,507; Oct. 19; Gaz. vol. 219; p. 819.
- Carbureter. G. Christian. No. 1,166,112; Dec. 28; Gaz. vol. 221; p. 1305.
- Carbureter. C. A. Corbett. No. 1,163,393; Dec. 7; Gaz. vol. 221; p. 231.
- Carbureter. H. M. Coulter. No. 1,125,069; Jan. 19; Gaz. vol. 210; p. 735.
- Carbureter. A. Cox. No. 1,143,511; June 15; Gaz. vol. 215; p. 925.
- Carbureter. C. W. Cummings. No. 1,129,794; Feb. 23; Gaz. vol. 211; p. 1217.
- Carbureter. W. J. Cunningham. No. 1,162,041; Nov. 30; Gaz. vol. 220; p. 1455.
- Carbureter. J. M. Dayton. No. 1,139,851; May 18; Gaz. vol. 214; p. 822.
- Carbureter. R. Delaunay-Belleville. No. 1,130,490; Mar. 2; Gaz. vol. 212; p. 229.
- Carbureter. W. P. Deppé. No. 1,163,223; Dec. 7; Gaz. vol. 221; p. 171.
- Carbureter. C. H. Diener. No. 1,156,836; Oct. 12; Gaz. vol. 219; p. 551.
- Carbureter. E. E. E. Doué. No. 1,149,035; Aug. 3; Gaz. vol. 217; p. 195.
- Carbureter. J. L. Dougan. No. 1,155,407; Oct. 5; Gaz. vol. 219; p. 29.
- Carbureter. J. F. Duryea. No. 1,135,270; Apr. 13; Gaz. vol. 213; p. 464.

Alphabetical list of inventions—Continued.

- Carbureter. H. N. Edens. No. 1,137,307; Apr. 27; Gaz. vol. 213; p. 1266.
- Carbureter. T. B. Eiker. No. 1,132,314; Mar. 16; Gaz. vol. 212; p. 938.
- Carbureter. J. B. Entz. No. 1,151,578; Aug. 31; Gaz. vol. 217; p. 1355.
- Carbureter. A. W. Farrell. No. 1,123,508; Jan. 5; Gaz. vol. 210; p. 106.
- Carbureter. F. G. Folberth. No. 1,138,204; May 4; Gaz. vol. 214; p. 169.
- Carbureter. L. M. Francisco. No. 1,130,502; Mar. 2; Gaz. vol. 212; p. 232.
- Carbureter. W. M. Fulton. No. 1,145,476; July 6; Gaz. vol. 216; p. 176.
- Carbureter. W. M. Fulton. No. 1,165,087; Dec. 21; Gaz. vol. 221; p. 908.
- Carbureter. O. C. Funderburk. No. 1,151,778; Aug. 31; Gaz. vol. 217; p. 1424.
- Carbureter. O. C. Funderburk. No. 1,159,005; Nov. 2; Gaz. vol. 220; p. 207.
- Carbureter. R. W. Gallagher. No. 1,148,485; July 27; Gaz. vol. 216; p. 1297.
- Carbureter. R. W. Gallagher. No. 1,163,749; Dec. 14; Gaz. vol. 221; p. 402.
- Carbureter. W. M. Gentle. No. 1,124,724; Jan. 12; Gaz. vol. 210; p. 578.
- Carbureter. J. S. Goldberg. No. 1,128,773; Feb. 16; Gaz. vol. 211; p. 825.
- Carbureter. J. S. Goldberg. No. 1,145,138; July 6; Gaz. vol. 216; p. 57.
- Carbureter. M. Goudard and M. Mennesson. No. 1,149,908; Aug. 10; Gaz. vol. 217; p. 613.
- Carbureter. A. and L. Graplin. No. 1,148,378; July 27; Gaz. vol. 216; p. 1262.
- Carbureter. F. Greiner. No. 1,153,487; Sept. 14; Gaz. vol. 218; p. 436.
- Carbureter. G. Griffin. No. 1,147,940; July 27; Gaz. vol. 216; p. 1105.
- Carbureter. J. Grove. No. 1,159,933; Nov. 9; Gaz. vol. 220; p. 569.
- Carbureter. C. A. Haas. No. 1,129,864; Mar. 2; Gaz. vol. 212; p. 11.
- Carbureter. T. Haegeler. No. 1,152,173; Aug. 31; Gaz. vol. 217; p. 1560.
- Carbureter. F. W. Hagar. No. 1,155,232; Sept. 28; Gaz. vol. 218; p. 1100.
- Carbureter. R. W. Harroun. No. 1,135,689; Apr. 13; Gaz. vol. 213; p. 612.
- Carbureter. R. W. Harroun. No. 1,155,726; Oct. 5; Gaz. vol. 219; p. 140.
- Carbureter. R. W. Harroun. No. 1,158,494; Nov. 2; Gaz. vol. 220; p. 28.
- Carbureter. C. W. Hart. No. 1,137,135; Apr. 27; Gaz. vol. 213; p. 1203.
- Carbureter. C. W. Hartshorn. No. 1,127,992; Feb. 9; Gaz. vol. 211; p. 506.
- Carbureter. A. G. Hathcock. No. 1,125,525; Jan. 19; Gaz. vol. 210; p. 898.
- Carbureter. C. B. Haynes. No. 1,143,961; June 22; Gaz. vol. 215; p. 1105.
- Carbureter. J. D. Hazen. No. 1,132,580; Mar. 23; Gaz. vol. 212; p. 1081.
- Carbureter. J. O. Heinze, Jr. No. 1,150,115; Aug. 17; Gaz. vol. 217; p. 747.
- Carbureter. F. H. Heltger. No. 1,132,934; Mar. 23; Gaz. vol. 212; p. 1212.
- Carbureter. F. H. Heltger. No. 1,134,531; Apr. 6; Gaz. vol. 213; p. 163.
- Carbureter. F. H. Heltger. No. 1,134,532; Apr. 6; Gaz. vol. 213; p. 164.
- Carbureter. J. V. Henley. No. 1,148,898; Aug. 3; Gaz. vol. 217; p. 146.
- Carbureter. O. S. Herizog. No. 1,141,796; June 1; Gaz. vol. 215; p. 249.
- Carbureter. P. G. Hiddleston. No. 1,123,876; Jan. 5; Gaz. vol. 210; p. 231.
- Carbureter. W. H. C. Higgins, Jr. No. 1,145,990; July 13; Gaz. vol. 216; p. 375.
- Carbureter. W. H. C. Higgins, Jr. No. 1,154,630; Sept. 23; Gaz. vol. 218; p. 895.
- Carbureter. W. H. C. Higgins, Jr. No. 1,157,868; Oct. 26; Gaz. vol. 219; p. 1006.
- Carbureter. A. J. Hippel. No. 1,153,077; Sept. 7; Gaz. vol. 218; p. 252.
- Carbureter. F. W. Hodges. No. 1,159,029; Nov. 2; Gaz. vol. 220; p. 213.
- Carbureter. J. C. Houghton and L. A. Hill. No. 1,164,093; Dec. 14; Gaz. vol. 221; p. 521.
- Carbureter. F. S. Howe. No. 1,126,218; Jan. 26; Gaz. vol. 210; p. 1181.
- Carbureter. P. W. Huskisson. No. 1,157,541; Oct. 19; Gaz. vol. 219; p. 830.
- Carbureter. G. G. Huszár. No. 1,146,625; July 13; Gaz. vol. 216; p. 599.
- Carbureter. P. Hutchinson. No. 1,136,675; Apr. 20; Gaz. vol. 213; p. 1000.
- Carbureter. E. A. Johnston and C. I. Longenecker. No. 1,150,202; Aug. 17; Gaz. vol. 217; p. 779.
- Carbureter. J. Juhász. No. 1,144,206; June 22; Gaz. vol. 215; p. 1193.
- Carbureter. L. M. Keizer. No. 1,125,338; Jan. 19; Gaz. vol. 210; p. 832.
- Carbureter. L. M. Keizer. No. 1,125,339; Jan. 19; Gaz. vol. 210; p. 833.
- Carbureter. L. M. Keizer. No. 1,125,340; Jan. 19; Gaz. vol. 210; p. 833.
- Carbureter. W. S. Kellogg, Jr. No. 1,144,477; June 29; Gaz. vol. 215; p. 1314.
- Carbureter. J. G. Kennir, Jr. No. 1,165,676; Dec. 28; Gaz. vol. 221; p. 1154.
- Carbureter. C. B. Kent. No. 1,141,085; May 25; Gaz. vol. 214; p. 1288.
- Carbureter. C. B. Kent. No. 1,141,086; May 25; Gaz. vol. 214; p. 1288.
- Carbureter. H. L. Kimmell. No. 1,156,084; Oct. 12; Gaz. vol. 219; p. 290.
- Carbureter. F. L. Kingston. No. 1,156,149; Oct. 12; Gaz. vol. 219; p. 313.
- Carbureter. G. Kingston. No. 1,130,981; Mar. 9; Gaz. vol. 212; p. 430.
- Carbureter. C. H. Kirby. No. 1,159,049; Nov. 2; Gaz. vol. 220; p. 221.
- Carbureter. R. E. Krause. No. 1,124,918; Jan. 12; Gaz. vol. 210; p. 647.
- Carbureter. C. T. Lippold. No. 1,146,181; July 13; Gaz. vol. 216; p. 443.
- Carbureter. F. S. Lobdell. No. 1,152,031; Aug. 31; Gaz. vol. 217; p. 1512.
- Carbureter. C. A. Maino and P. Pellegrini. No. 1,157,116; Oct. 19; Gaz. vol. 219; p. 680.
- Carbureter. L. J. McAdam. No. 1,155,829; Oct. 5; Gaz. vol. 219; p. 177.
- Carbureter. H. McCormack. No. 1,141,570; June 1; Gaz. vol. 215; p. 173.
- Carbureter. H. E. McCray. No. 1,153,436; Sept. 14; Gaz. vol. 218; p. 418.
- Carbureter. H. L. McCurdy. No. 1,159,851; Nov. 9; Gaz. vol. 220; p. 540.
- Carbureter. H. C. Merriam and L. M. York. No. 1,154,530; Sept. 21; Gaz. vol. 218; p. 831.
- Carbureter. D., Jr., and I. V. Mitchell. No. 1,126,249; Jan. 26; Gaz. vol. 210; p. 1193.
- Carbureter. O. B. Monosmith. No. 1,125,368; Jan. 19; Gaz. vol. 210; p. 844.
- Carbureter. W. J. P. Moore. No. 1,148,247; July 27; Gaz. vol. 216; p. 1214.
- Carbureter. H. N. Motsinger. No. 1,165,359; Dec. 21; Gaz. vol. 221; p. 1002.
- Carbureter. W. W. Muir. No. 1,143,986; June 22; Gaz. vol. 215; p. 1113.
- Carbureter. W. W. Muir. No. 1,147,337; July 20; Gaz. vol. 216; p. 865.
- Carbureter. W. W. Muir. No. 1,164,661; Dec. 21; Gaz. vol. 221; p. 759.
- Carbureter. T. J. Nichols. No. 1,156,924; Oct. 19; Gaz. vol. 219; p. 612.
- Carbureter. R. P. Norton. No. 1,135,544; Apr. 13; Gaz. vol. 213; p. 560.
- Carbureter. J. H. Odell. No. 1,135,315; Apr. 13; Gaz. vol. 213; p. 480.
- Carbureter. W. Ottaway. No. 1,128,717; Feb. 16; Gaz. vol. 211; p. 806.
- Carbureter. W. Ottaway. No. 1,135,046; Apr. 13; Gaz. vol. 213; p. 389.
- Carbureter. J. J. Payne. No. 1,148,333; July 27; Gaz. vol. 216; p. 1246.
- Carbureter. C. J. Pembroke. No. 1,143,779; June 22; Gaz. vol. 215; p. 1041.
- Carbureter. F. Perry. No. 1,142,763; June 8; Gaz. vol. 215; p. 623.
- Carbureter. L. G. Pond. No. 1,162,308; Nov. 30; Gaz. vol. 220; p. 1549.
- Carbureter. S. I. Prescott. No. 1,143,227; June 15; Gaz. vol. 215; p. 828.
- Carbureter. H. L. Rakestraw. No. 1,140,064; May 18; Gaz. vol. 214; p. 899.
- Carbureter. J. W. Raymond. No. 1,124,949; Jan. 12; Gaz. vol. 210; p. 658.
- Carbureter. E. C. Richard. No. 1,149,291; Aug. 10; Gaz. vol. 217; p. 390.
- Carbureter. M. R. Rodrigues and M. J. Schmitt. No. 1,164,215; Dec. 14; Gaz. vol. 221; p. 561.
- Carbureter. W. F. Rothe. No. 1,140,071; May 18; Gaz. vol. 214; p. 902.
- Carbureter. A. F. Rowell. No. 1,151,286; Aug. 24; Gaz. vol. 217; p. 1210.
- Carbureter. W. J. Rubesky. No. 1,157,588; Oct. 19; Gaz. vol. 219; p. 844.
- Carbureter. E. F. L. Russell. No. 1,127,286; Feb. 2; Gaz. vol. 211; p. 219.
- Carbureter. J. E. Russell. No. 1,148,461; July 27; Gaz. vol. 216; p. 1288.
- Carbureter. C. K. Salisbury. No. 1,129,428; Feb. 23; Gaz. vol. 211; p. 1093.
- Carbureter. S. I. Sanders. No. 1,152,915; Sept. 7; Gaz. vol. 218; p. 197.
- Carbureter. A. J. Scaife. No. 1,136,276; Apr. 20; Gaz. vol. 213; p. 858.
- Carbureter. G. M. Schebler. No. 1,156,823; Oct. 12; Gaz. vol. 219; p. 546.
- Carbureter. V. E. Schmiedeknecht. No. 1,135,211; Apr. 13; Gaz. vol. 213; p. 445.
- Carbureter. W. Schoof, Jr. No. 1,135,729; Apr. 13; Gaz. vol. 213; p. 627.

- Carbureter. W. H. Schulte. No. 1,159,423; Nov. 9; Gaz. vol. 220; p. 385.
- Carbureter. W. Shakespeare, Jr., and W. Schmid. No. 1,128,129; Feb. 23; Gaz. vol. 211; p. 988.
- Carbureter. W. S. Sherman. No. 1,137,238; Apr. 27; Gaz. vol. 213; p. 1240.
- Carbureter. W. P. Shores. No. 1,156,716; Oct. 12; Gaz. vol. 219; p. 510.
- Carbureter. E. G. Shortt. No. 1,133,754; Mar. 30; Gaz. vol. 212; p. 1542.
- Carbureter. E. J. Simpson. No. 1,162,111; Nov. 30; Gaz. vol. 220; p. 1481.
- Carbureter. R. Slaby. No. 1,160,662; Nov. 16; Gaz. vol. 220; p. 879.
- Carbureter. R. H. Smille. No. 1,139,914; May 18; Gaz. vol. 214; p. 845.
- Carbureter. C. D. Smith. No. 1,145,871; July 6; Gaz. vol. 216; p. 314.
- Carbureter. E. S. Smith. No. 1,141,276; June 1; Gaz. vol. 215; p. 66.
- Carbureter. I. M. Smith. No. 1,158,324; Oct. 26; Gaz. vol. 219; p. 1167.
- Carbureter. F. Sohon. No. 1,134,021; Mar. 30; Gaz. vol. 212; p. 1631.
- Carbureter. J. A. Speed. No. 1,145,172; July 6; Gaz. vol. 216; p. 69.
- Carbureter. N. C. Stamps. No. 1,140,721; May 25; Gaz. vol. 214; p. 1160.
- Carbureter. N. C. Stamps. No. 1,140,722; May 25; Gaz. vol. 214; p. 1161.
- Carbureter. J. W. Swan. No. 1,126,127; Jan. 26; Gaz. vol. 210; p. 1147.
- Carbureter. E. J. Thompson. No. 1,130,350; Mar. 2; Gaz. vol. 212; p. 177.
- Carbureter. J. L. T. Thurot. No. 1,158,589; Nov. 2; Gaz. vol. 220; p. 64.
- Carbureter. P. S. Tice. No. 1,123,955; Jan. 5; Gaz. vol. 210; p. 257.
- Carbureter. S. M. Udale. No. 1,145,824; July 6; Gaz. vol. 216; p. 297.
- Carbureter. H. W. Unckles. No. 1,143,092; June 15; Gaz. vol. 215; p. 780.
- Carbureter. C. H. Veeder. No. 1,127,120; Feb. 2; Gaz. vol. 211; p. 161.
- Carbureter. F. E. Watts. No. 1,159,446; Nov. 9; Gaz. vol. 220; p. 493.
- Carbureter. J. A. Webb. No. 1,152,134; Aug. 31; Gaz. vol. 217; p. 1547.
- Carbureter. E. Wetterhahn. No. 1,155,457; Oct. 5; Gaz. vol. 219; p. 46.
- Carbureter. L. A. Williams. No. 1,130,950; Mar. 9; Gaz. vol. 212; p. 419.
- Carbureter. T. O. Winger. No. 1,155,184; Sept. 28; Gaz. vol. 218; p. 1086.
- Carbureter. H. B. Wyman. No. 1,133,904; Mar. 30; Gaz. vol. 212; p. 1595.
- Carbureter-adjusting mechanism. H. H. Frey. No. 1,146,322; July 13; Gaz. vol. 216; p. 491.
- Carbureter and vacuum-feed fuel-receptacle. Consolidated. W. Jay. No. 1,132,942; Mar. 23; Gaz. vol. 212; p. 1216.
- Carbureter attachment. J. R. Lund. No. 1,142,824; June 15; Gaz. vol. 215; p. 684.
- Carbureter device. H. W. Falk and W. K. Andrew. No. 1,146,316; July 13; Gaz. vol. 216; p. 489.
- Carbureter feed-pipes. Device for preventing obstruction of. C. E. Davis. No. 1,125,485; Jan. 19; Gaz. vol. 210; p. 884.
- Carbureter. Floatless. J. Dressel. No. 1,126,159; Jan. 26; Gaz. vol. 210; p. 1158.
- Carbureter for explosion-engines. Injector-. L. Lacoïn. No. 1,151,600; Aug. 31; Gaz. vol. 217; p. 1363.
- Carbureter for explosive-engines. M. L. Keller. No. 1,129,103; Feb. 23; Gaz. vol. 211; p. 979.
- Carbureter for explosive-engines. W. J. Rubesky. No. 1,140,000; May 18; Gaz. vol. 214; p. 876.
- Carbureter for explosive-engines. R. Shipman. (Reissue.) No. 13,903; Apr. 20; Gaz. vol. 213; p. 1087.
- Carbureter for explosive-engines. Heavy-oil. M. Beck. No. 1,149,710; Aug. 10; Gaz. vol. 217; p. 541.
- Carbureter for hydrocarbon-motors. E. E. Winkley and F. V. Hart. No. 1,145,854; July 6; Gaz. vol. 216; p. 307.
- Carbureter for internal-combustion engines. E. F. Abernethy. No. 1,137,727; May 4; Gaz. vol. 214; p. 3.
- Carbureter for internal-combustion engines. E. J. Kane. No. 1,144,549; June 29; Gaz. vol. 215; p. 1338.
- Carbureter for oil-engines. Vaporizing-. J. G. A. Kitchen and I. H. Storey. No. 1,131,934; Mar. 16; Gaz. vol. 212; p. 798.
- Carbureter-heater. J. B. Entz. No. 1,165,656; Dec. 28; Gaz. vol. 221; p. 1146.
- Carbureter. Internal-combustion-engine. O. D. Lucas. No. 1,150,782; Aug. 17; Gaz. vol. 217; p. 979.
- Carbureter. Kerosene-. F. N. Percival and W. Patterson. No. 1,150,619; Aug. 17; Gaz. vol. 217; p. 924.
- Carbureter-manifold. A. C. Bennett. No. 1,133,528; Mar. 30; Gaz. vol. 212; p. 1462.
- Carbureter or vaporizer for explosive-engines. E. F. Abernethy. No. 1,137,728; May 4; Gaz. vol. 214; p. 3.
- Carbureter. Pressure-. C. M. Carrel. No. 1,157,146; Oct. 19; Gaz. vol. 219; p. 691.
- Carbureter. Spray-. T. Wildy. No. 1,131,584; Mar. 9; Gaz. vol. 212; p. 637.
- Carbureter. Thermostatic control for the valve of a. A. E. England. No. 1,149,743; Aug. 10; Gaz. vol. 217; p. 553.
- Carbureter-throttles. Governor for. F. J. and H. M. Schults. No. 1,123,935; Jan. 5; Gaz. vol. 210; p. 251.
- Carbureter-valve. F. Sohon. No. 1,161,742; Nov. 23; Gaz. vol. 220; p. 1304.
- Carbureter. Visible. L. S. Gardner. No. 1,146,150; July 13; Gaz. vol. 216; p. 432.
- Carbureter-warmer. O. P. Nelson. No. 1,160,192; Nov. 16; Gaz. vol. 220; p. 712.
- Carbureter water-supply. H. W. Falk and W. K. Andrew. No. 1,142,877; June 15; Gaz. vol. 215; p. 703.
- Carbureters. Air-heater for. G. H. Joy. No. 1,159,773; Nov. 9; Gaz. vol. 220; p. 512.
- Carbureters. Air-heater for. W. R. McKeen, Jr. No. 1,132,199; Mar. 16; Gaz. vol. 212; p. 894.
- Carbureters. Air-supplying attachment for. W. E. Denney and W. H. Osborn. No. 1,152,080; Aug. 31; Gaz. vol. 217; p. 1529.
- Carbureters and spray-burners. Hydrocarbon-nozzle of spray-. E. Crémieu-Javal. No. 1,182,539; Mar. 16; Gaz. vol. 212; p. 1020.
- Carbureters. Antibackfiring attachment for. J. Von Wiadkowski. No. 1,130,553; Mar. 2; Gaz. vol. 212; p. 250.
- Carbureters. Device for preheating hydrocarbons in. R. E. Krause. No. 1,135,195; Apr. 13; Gaz. vol. 213; p. 439.
- Carbureters. Device for supplying heated air to. O. G. Erickson. No. 1,141,450; June 1; Gaz. vol. 215; p. 130.
- Carbureters. Fuel-supply system for. O. C. Funderburk. No. 1,149,192; Aug. 10; Gaz. vol. 217; p. 353.
- Carbureters. Jet-nozzle for. E. Terry. No. 1,147,763; July 27; Gaz. vol. 216; p. 1042.
- Carbureters. Needle-valve-operating mechanism for. W. C. Carter. No. 1,124,697; Jan. 12; Gaz. vol. 210; p. 569.
- Carbureters. Proportioning device especially designed for. H. N. Motsinger. No. 1,140,525; May 25; Gaz. vol. 214; p. 1097.
- Carbureters. Throttle-valve for. P. Daimler and R. Slaby. No. 1,162,576; Nov. 30; Gaz. vol. 220; p. 1639.
- Carbureters. Throttle-valve for. G. Plumm. No. 1,130,103; Mar. 2; Gaz. vol. 212; p. 91.
- Carbureters. Water-vaporizer for. R. Jensen. No. 1,163,930; Dec. 14; Gaz. vol. 221; p. 464.
- Carbureting. T. D. Rottome. No. 1,153,889; Sept. 21; Gaz. vol. 218; p. 613.
- Carbureting apparatus. F. S. Oliver. No. 1,146,441; July 13; Gaz. vol. 216; p. 534.
- Carbureting apparatus. G. F. Schmidt. No. 1,137,535; Apr. 27; Gaz. vol. 213; p. 1346.
- Carbureting device. E. J. Bell. No. 1,163,059; Dec. 7; Gaz. vol. 221; p. 113.
- Carbureting device. H. M. Reichenbach. No. 1,147,644; July 20; Gaz. vol. 216; p. 975.
- Carburizing material. C. Staff. No. 1,131,801; Mar. 16; Gaz. vol. 212; p. 752.
- Carcass-beater. W. R. Allbright. No. 1,164,053; Dec. 14; Gaz. vol. 221; p. 597.
- Carcass polishing and cleaning mechanism. J. W. Kohlhepp. No. 1,125,562; Jan. 19; Gaz. vol. 210; p. 911.
- Carcass scraping and cleaning mechanism. J. W. Kohlhepp. No. 1,125,561; Jan. 19; Gaz. vol. 210; p. 910.
- Carcass scraping, polishing, and cleaning mechanism. J. W. Kohlhepp. No. 1,125,560; Jan. 19; Gaz. vol. 210; p. 910.
- Carcass-splitting machine. D. E. Clifford. No. 1,165,389; Dec. 28; Gaz. vol. 221; p. 1052.
- Card. Arithmetical drill. H. D. Rickard. No. 1,150,624; Aug. 17; Gaz. vol. 217; p. 925.
- Card-case. C. J. Dieges. No. 1,151,248; Aug. 24; Gaz. vol. 217; p. 1198.
- Card-case. M. Goldsmith. No. 1,129,346; Feb. 23; Gaz. vol. 211; p. 1063.
- Card-case. E. Smykal. No. 1,143,654; June 22; Gaz. vol. 215; p. 1000.
- Card case and tray. Combined. T. O. Holland. No. 1,126,470; Jan. 26; Gaz. vol. 210; p. 1270.
- Card-clothing. E. Graf. No. 1,154,856; Sept. 28; Gaz. vol. 218; p. 971.
- Card. Cryptographic-code. E. H. Hebern. No. 1,136,875; Apr. 20; Gaz. vol. 213; p. 1072.
- Card curving and straightening device. C. F. Lundeberg. No. 1,150,608; Aug. 17; Gaz. vol. 217; p. 920.
- Card. Display-. J. G. Johnston. No. 1,132,854; Mar. 23; Gaz. vol. 212; p. 1184.
- Card-fleece-width controller. C. A. Allen. No. 1,152,389; Sept. 7; Gaz. vol. 218; p. 3.
- Card. Folded letter-. H. H. Clark. No. 1,141,172; June 1; Gaz. vol. 215; p. 29.
- Card for banking purposes. Combination-. G. H. Kent. No. 1,166,054; Dec. 28; Gaz. vol. 221; p. 1283.
- Card. Hand stripping-. H. Midgley. No. 1,127,486; Feb. 9; Gaz. vol. 211; p. 329.
- Card-holder. T. F. Brady. No. 1,148,887; Aug. 3; Gaz. vol. 217; p. 143.
- Card-holder. W. H. Rouse. No. 1,136,487; Apr. 20; Gaz. vol. 213; p. 935.

Alphabetical list of inventions—Continued.

- Card, Playing-. J. J. Coll. No. 1,152,605; Sept. 7; Gaz. vol. 218; p. 83.
- Card-rack, W. D. Hawley. No. 1,156,401; Oct. 12; Gaz. vol. 219; p. 400.
- Card-receptacle, L. J. Hogg. No. 1,130,597; Mar. 2; Gaz. vol. 212; p. 265.
- Card, Sample-, C. Green. No. 1,132,837; Mar. 16; Gaz. vol. 212; p. 946.
- Card, Score-, F. H. Heineck. No. 1,132,261; Mar. 16; Gaz. vol. 212; p. 918.
- Card-shuffler, C. T. Hall. No. 1,154,988; Sept. 28; Gaz. vol. 218; p. 1016.
- Card-shuffling machine, G. J. Perret. No. 1,157,898; Oct. 26; Gaz. vol. 219; p. 1018.
- Card, Statistic game-, J. R. Tercy. No. 1,123,622; Jan. 5; Gaz. vol. 210; p. 146.
- Card-support, T. O. Bittner. No. 1,135,874; Apr. 13; Gaz. vol. 213; p. 677.
- Card system, A. H. Bauer. No. 1,142,007; June 8; Gaz. vol. 215; p. 360.
- Card-table, F. J. Muspratt. No. 1,136,255; Apr. 20; Gaz. vol. 213; p. 851.
- Card-testing device, H. Hollerith. No. 1,132,345; Mar. 16; Gaz. vol. 212; p. 949.
- Card, Trick-, J. C. Mott. No. 1,124,639; Jan. 12; Gaz. vol. 210; p. 549.
- Cards and holder therefor, Recording and computing, A. H. Carrill. No. 1,153,761; Sept. 14; Gaz. vol. 218; p. 531.
- Cards, Musical educational game, J. A. Bostwick. No. 1,139,098; May 11; Gaz. vol. 214; p. 523.
- Cards or tickets, Machine for marking show-, E. E. Bernhard. No. 1,134,812; Apr. 6; Gaz. vol. 213; p. 265.
- Cards, Playing-, F. H. Behring. No. 1,143,595; June 15; Gaz. vol. 215; p. 955.
- Cards, Playing-, J. L. Brister. No. 1,138,534; May 4; Gaz. vol. 214; p. 284.
- Cards, Playing-, A. W. Browne. No. 1,140,441; May 25; Gaz. vol. 214; p. 1064.
- Cards, Playing-, J. C. Davis. No. 1,142,042; June 15; Gaz. vol. 215; p. 762.
- Cards, Playing-, E. V. Elcouin. No. 1,153,899; Sept. 21; Gaz. vol. 218; p. 616.
- Cards, Playing-, S. B. Miller. No. 1,146,808; July 20; Gaz. vol. 216; p. 682.
- Cardboard sheets, Device for applying adhesives to, E. Jagenberg. No. 1,151,596; Aug. 31; Gaz. vol. 217; p. 1362.
- Cardboard tubes, Apparatus for shaping, J. W. Paton. No. 1,132,283; Mar. 16; Gaz. vol. 212; p. 927.
- Carding and twisting machine, Combined, R. J. Hill and W. F. Bokum. No. 1,127,994; Feb. 9; Gaz. vol. 211; p. 507.
- Carding-engine, E. V. Bates. No. 1,160,367; Nov. 16; Gaz. vol. 220; p. 772.
- Carding-engine, A. H. Morton. No. 1,148,708; Aug. 3; Gaz. vol. 217; p. 80.
- Carding-engine, A. H. Morton. No. 1,161,067; Nov. 23; Gaz. vol. 220; p. 1066.
- Carding-engine doffers, Speed-controller for, J. Pilling. No. 1,132,878; Mar. 23; Gaz. vol. 212; p. 1192.
- Carding-machine, F. Garniss. No. 1,149,820; Aug. 10; Gaz. vol. 217; p. 581.
- Carding-machine, B. Gordon, Jr. No. 1,165,088; Dec. 21; Gaz. vol. 221; p. 908.
- Carding-machine, A. W., Sr., and J. A. Greer. No. 1,146,065; July 13; Gaz. vol. 216; p. 402.
- Carding-machine, A. F. Jealous. No. 1,146,711; July 13; Gaz. vol. 216; p. 627.
- Carding-machine breast, E. V. Bates. No. 1,162,846; Dec. 7; Gaz. vol. 221; p. 40.
- Carding-machine feeding mechanism, J. B. Howe. No. 1,138,567; May 4; Gaz. vol. 214; p. 294.
- Cargo-stowing apparatus, A. W. Curtis. No. 1,125,009; Jan. 12; Gaz. vol. 210; p. 680.
- Carline, F. Mathews. No. 1,161,498; Nov. 23; Gaz. vol. 220; p. 1221.
- Carline, C. F. Murray. No. 1,155,365; Oct. 5; Gaz. vol. 219; p. 14.
- Carline, T. N. Russell. No. 1,145,615; July 6; Gaz. vol. 216; p. 222.
- Carline, Pressed-steel, W. A. Brewer. No. 1,145,547; July 6; Gaz. vol. 216; p. 200.
- Carline, Sectional, P. M. Beard. No. 1,164,059; Dec. 14; Gaz. vol. 221; p. 510.
- Carline structure, S. F. Klohs. No. 1,136,964; Apr. 27; Gaz. vol. 213; p. 1139.
- Carlines, Bracing for, R. G. Ellis. No. 1,140,668; May 25; Gaz. vol. 214; p. 1144.
- Carob, Treating, L. Kleinbrod. No. 1,150,607; Aug. 17; Gaz. vol. 217; p. 920.
- Carousel, Motor-boat, J. O. Schmitt. No. 1,124,336; Jan. 12; Gaz. vol. 210; p. 437.
- Carpenter-tool, Combination, E. H. Krauth and E. Hamblin, Jr. No. 1,166,226; Dec. 28; Gaz. vol. 221; p. 1349.
- Carpenter's clamp, E. J. Kobert. No. 1,145,199; July 6; Gaz. vol. 216; p. 78.
- Carpenter's combination-tool, D. J. Annis. No. 1,138,722; May 11; Gaz. vol. 214; p. 389.
- Carpenter's combination-tool, J. L. Earl. No. 1,157,514; Oct. 19; Gaz. vol. 219; p. 821.
- Carpenter's combination-tool, O. A. Eckre. No. 1,134,826; Apr. 6; Gaz. vol. 213; p. 269.
- Carpenter's gage, R. M. Raymond. No. 1,136,367; Apr. 20; Gaz. vol. 213; p. 891.
- Carpenter's tool, W. H. Barron, Jr., and C. Leseman. No. 1,134,806; Apr. 6; Gaz. vol. 213; p. 263.
- Carpenter's tool, W. S. Burkhart. No. 1,160,103; Nov. 9; Gaz. vol. 220; p. 628.
- Carpenter's tool, B. A. Miller. No. 1,143,426; June 15; Gaz. vol. 215; p. 899.
- Carpenter's tool, R. F. Nash. No. 1,133,310; Mar. 30; Gaz. vol. 212; p. 1383.
- Carpenter's tool, F. C. Rowland. No. 1,157,587; Oct. 19; Gaz. vol. 219; p. 844.
- Carpet and rug clamp, W. D. Lloyd. No. 1,150,046; Aug. 17; Gaz. vol. 217; p. 722.
- Carpet-beater, J. S. Morrison. No. 1,155,952; Oct. 5; Gaz. vol. 219; p. 218.
- Carpet-cleaner, C. N. Allen. No. 1,164,904; Dec. 21; Gaz. vol. 221; p. 844.
- Carpet-cleaner, O. Englund. No. 1,155,556; Oct. 5; Gaz. vol. 219; p. 81.
- Carpet-cleaner, E. J. Tangeman. No. 1,129,817; Feb. 23; Gaz. vol. 211; p. 1224.
- Carpet-cleaner, Pneumatic, E. E. Overholt. No. 1,136,434; Apr. 20; Gaz. vol. 213; p. 916.
- Carpet-cleaning machine, J. R. Powell. No. 1,155,957; Oct. 5; Gaz. vol. 219; p. 220.
- Carpet fastener, Stair-, J. F. Billenstein. No. 1,126,361; Jan. 26; Gaz. vol. 210; p. 1232.
- Carpet fastener, Stair-, H. J. Bruehler. No. 1,141,524; June 1; Gaz. vol. 215; p. 157.
- Carpet fastener, Stair-, H. C. Schramm. No. 1,137,670; Apr. 27; Gaz. vol. 213; p. 1390.
- Carpet-stretcher, J. C. Owens. No. 1,160,647; Nov. 16; Gaz. vol. 220; p. 874.
- Carpet-strip, T. P. A. F. Dean. No. 1,137,587; Apr. 27; Gaz. vol. 213; p. 1363.
- Carpet-sweeper, W. A. Roach. No. 1,147,440; July 20; Gaz. vol. 216; p. 904.
- Carpet-sweeper, Suction, J. M. Spangler. No. 1,151,731; Aug. 31; Gaz. vol. 217; p. 1407.
- Carpet-sweeping appliance, C. L. Baender. No. 1,138,437; May 4; Gaz. vol. 214; p. 252.
- Carpets and the like, Device or means for the protection of, N. Harrop. No. 1,140,264; May 18; Gaz. vol. 214; p. 967.
- Carriage and like vehicle, Baby-, H. Becker. No. 1,149,111; Aug. 3; Gaz. vol. 217; p. 219.
- Carriage and movable track therefor, C. W. Rood. No. 1,144,793; June 29; Gaz. vol. 215; p. 1423.
- Carriage and suitcase, Combined, H. Schrek. No. 1,131,559; Mar. 9; Gaz. vol. 212; p. 629.
- Carriage-canopy, I. E. Lees. No. 1,126,236; Jan. 26; Gaz. vol. 210; p. 1188.
- Carriage, Child's, T. E. Barton. No. 1,157,610; Oct. 19; Gaz. vol. 219; p. 851.
- Carriage, Child's, F. W. Jaeger. No. 1,147,946; July 27; Gaz. vol. 216; p. 1106.
- Carriage, Collapsible, F. W. Jonas and C. S. Spofford. No. 1,161,315; Nov. 23; Gaz. vol. 220; p. 1156.
- Carriage, Collapsible, C. S. Spofford. No. 1,125,756; Jan. 19; Gaz. vol. 210; p. 982.
- Carriage, Collapsible, C. S. Spofford. No. 1,127,938; Feb. 9; Gaz. vol. 211; p. 488.
- Carriage-coupling, W. Atkins. No. 1,140,863; May 25; Gaz. vol. 214; p. 1212.
- Carriage, Reversible folding baby-, O. O. Richards. No. 1,148,407; July 27; Gaz. vol. 216; p. 1271.
- Carriage, Roller-, E. P. Jennings, Jr. No. 1,142,435; June 8; Gaz. vol. 215; p. 613.
- Carriage runner, Baby-, E. W. Johnson. No. 1,154,991; Sept. 28; Gaz. vol. 218; p. 1017.
- Carriage-top, M. Nakamizo. No. 1,149,162; Aug. 3; Gaz. vol. 217; p. 238.
- Carriage-top, A. P. Seramor. No. 1,152,662; Sept. 7; Gaz. vol. 218; p. 104.
- Carriage-top extender, M. Nakamizo. No. 1,149,163; Aug. 3; Gaz. vol. 217; p. 238.
- Carriage-window, J. T. Allmand. No. 1,147,837; July 27; Gaz. vol. 216; p. 1068.
- Carriages, Collapsible swinging carrier for baby-, S. W. Postel. No. 1,159,415; Nov. 9; Gaz. vol. 220; p. 382.
- Carriages, Runner attachment for baby-, E. A. Thomas. No. 1,158,584; Nov. 2; Gaz. vol. 220; p. 61.
- Carrier, See—
- Article-carrier.
- Automobile baggage-carrier.
- Basket-carrier.
- Bicycle parcel-carrier.
- Book-carrier.
- Bottle-carrier.
- Braiding-carrier.
- Braiding-machine carrier.
- Bundle-carrier.
- Cartridge-box carrier.
- Child-carrier.
- Coin-carrier.
- Collapsible carrier.
- Conveyer-carrier.
- Coupling-carrier.
- Cuspidor-carrier.
- Disinfectant pencil-carrier.
- Egg-carrier.
- Egg and butter carrier.
- Egg-carton carrier.
- Elevated carrier.
- Endless carrier.
- Fodder-carrier.
- Fragile-article carrier.
- Fuse-carrier.
- Grain-carrier.
- Gravity-carrier.
- Grout-carrier.
- Hay-carrier.

Alphabetical list of inventions—Continued.

Carrier—Continued.

Ice-cream-cone carrier.
 Infant's combination-carrier.
 Lamp-carrier.
 Lantern-carrier.
 License-plate carrier.
 Litter-carrier.
 Luggage-carrier.
 Manure-carrier.
 Overhead carrier.
 Pack-carrier.
 Package-carrier.
 Parcel-carrier.
 Reel-carrier.
 Rifle-carrier.
 Rotary carrier.
 Spool-carrier.
 Straw, &c., carrier.
 Target-carrier.
 Tire-carrier.
 Tong-carrier.
 Trace-carrier.
 Tramway-carrier.
 Trolley-harp carrier.
 Type-carrier.
 Work-carrier.
 Carrier, P. O. Robinson. No. 1,147,443; July 20; Gaz. vol. 216; p. 995.
 Carrier, J. T. Wellman. No. 1,127,556; Feb. 9; Gaz. vol. 211; p. 353.
 Carrier-track, B. Brudat. No. 1,164,779; Dec. 21; Gaz. vol. 221; p. 800.
 Carry-iron, Cast-steel, R. F. Darby. No. 1,143,689; June 22; Gaz. vol. 215; p. 1012.
 Carry-iron, Draw-bar, E. H. Crown. No. 1,157,088; Oct. 19; Gaz. vol. 219; p. 671.
 Carry-iron, Draw-bar, E. H. Crown, C. T. Westlake, and C. S. Shallenberger. No. 1,148,150; July 27; Gaz. vol. 216; p. 1181.
 Carry-iron, Draw-bar, C. T. Westlake and C. S. Shallenberger. No. 1,157,070; Oct. 19; Gaz. vol. 219; p. 664.
 Carrying and display case, C. M. Muffy. No. 1,163,256; Dec. 7; Gaz. vol. 221; p. 183.
 Carrying-case, Temporary, J. A. Cameron. No. 1,142,301; June 8; Gaz. vol. 215; p. 463.
 Carrying device, A. S. Reifsnnyder. No. 1,141,005; May 25; Gaz. vol. 214; p. 1262.
 Cart, Ash-, H. Mecking. No. 1,139,307; May 11; Gaz. vol. 214; p. 593.
 Cart, Barrel-, D. Rydell. No. 1,142,630; June 8; Gaz. vol. 215; p. 579.
 Cart, Child's, C. J. Jacobsen. No. 1,155,928; Oct. 5; Gaz. vol. 219; p. 209.
 Cart, Collapsible baby-, M. B. Lloyd. No. 1,124,153; Jan. 5; Gaz. vol. 210; p. 324.
 Cart, Drag-, H. Moen. No. 1,152,200; Aug. 31; Gaz. vol. 217; p. 1570.
 Cart, Drop-frame, C. J. Schroeder. No. 1,161,256; Nov. 23; Gaz. vol. 220; p. 1136.
 Cart, Hand-, J. Z. Benedict. No. 1,129,539; Feb. 23; Gaz. vol. 211; p. 1131.
 Cart, Supply-, T. Brown. No. 1,163,610; Dec. 7; Gaz. vol. 221; p. 307.
 Cart, Whirligig-, I. T. Williams. No. 1,142,214; June 8; Gaz. vol. 215; p. 433.
 Carton, P. Berkey. No. 1,124,266; Jan. 12; Gaz. vol. 210; p. 413.
 Carton, H. L. Betten. No. 1,123,470; Jan. 5; Gaz. vol. 210; p. 93.
 Carton, C. H. Butler. No. 1,143,250; June 15; Gaz. vol. 215; p. 836.
 Carton, F. Emmons. No. 1,150,105; Aug. 17; Gaz. vol. 217; p. 744.
 Carton, S. Goodkind. No. 1,138,469; May 4; Gaz. vol. 214; p. 263.
 Carton, L. D. Morton. No. 1,127,073; Feb. 2; Gaz. vol. 211; p. 144.
 Carton, C. F. Raynaud. No. 1,151,821; Aug. 31; Gaz. vol. 217; p. 1440.
 Carton, R. R. Richardson. No. 1,126,279; Jan. 26; Gaz. vol. 210; p. 1202.
 Carton-blank, K. I. Herman. No. 1,130,818; Mar. 9; Gaz. vol. 212; p. 374.
 Carton-blank, K. I. Herman. No. 1,159,024; Nov. 2; Gaz. vol. 220; p. 212.
 Carton-blank, G. A. Robinson. No. 1,140,288; May 18; Gaz. vol. 214; p. 975.
 Carton-bodies, Machine for making, G. W. Beadle. No. 1,133,913; Mar. 30; Gaz. vol. 212; p. 1598.
 Carton-capping machine, G. W. Beadle. No. 1,125,041; Jan. 19; Gaz. vol. 210; p. 725.
 Carton-capping machine, G. W. Beadle. No. 1,133,426; Mar. 30; Gaz. vol. 212; p. 1425.
 Carton-crimping machine, G. W. Beadle. No. 1,133,424; Mar. 30; Gaz. vol. 212; p. 1423.
 Carton drying machine, G. W. Beadle. No. 1,135,985; Apr. 20; Gaz. vol. 213; p. 757.
 Carton-feeding machine, R. H. Brown. No. 1,133,532; Mar. 30; Gaz. vol. 212; p. 1463.
 Carton-feeding mechanism, F. B. Martin. No. 1,137,227; Apr. 27; Gaz. vol. 213; p. 1236.
 Carton filling and sealing machine, W. L. and M. H. Montgomery. No. 1,165,695; Dec. 28; Gaz. vol. 221; p. 1160.
 Carton, Folding fiber-board, J. K. P. Bingham. No. 1,150,491; Aug. 17; Gaz. vol. 217; p. 879.
 Carton for cigarettes and the like, H. Phillips. No. 1,126,269; Jan. 26; Gaz. vol. 210; p. 1199.
 Carton-machine, C. Redd. No. 1,153,571; Sept. 14; Gaz. vol. 218; p. 468.
 Carton-machine, Automatic, E. Craig. No. 1,161,033; Nov. 23; Gaz. vol. 220; p. 1055.
 Carton-making and flap-sealing machine, F. B. Martin. No. 1,136,354; Apr. 20; Gaz. vol. 213; p. 886.

Carton or can bodies from fibrous sheets, Making, C. C. Woods. No. 1,164,153; Dec. 14; Gaz. vol. 221; p. 542.
 Carton or can bodies from fibrous sheets, Making, C. C. Woods. No. 1,164,154; Dec. 14; Gaz. vol. 221; p. 542.
 Carton-sealing device, H. L. Johnson. No. 1,132,586; Mar. 23; Gaz. vol. 212; p. 1083.
 Carton, Slatted, M. M. Cohn. No. 1,148,758; Aug. 3; Gaz. vol. 217; p. 89.
 Carton weighing and filling machine, C. Redd. No. 1,140,915; May 25; Gaz. vol. 214; p. 1231.
 Cartons, Machine for automatically capping, G. W. Beadle. No. 1,125,043; Jan. 19; Gaz. vol. 210; p. 726.
 Cartons, Machine for closing paper, G. W. Beadle. No. 1,133,425; Mar. 30; Gaz. vol. 212; p. 1424.
 Cartridge, P. Butler. No. 1,153,860; Sept. 14; Gaz. vol. 218; p. 569.
 Cartridge, P. O. Hoagland. No. 1,157,221; Oct. 19; Gaz. vol. 219; p. 718.
 Cartridge, J. B. Mackey. No. 1,149,387; Aug. 10; Gaz. vol. 217; p. 424.
 Cartridge, J. D. Pedersen. No. 1,123,362; Jan. 5; Gaz. vol. 210; p. 57.
 Cartridge and projectile, Gun, E. E. Gregory. No. 1,166,360; Dec. 28; Gaz. vol. 221; p. 1397.
 Cartridge-belt, F. R. Batchelder. No. 1,139,629; May 18; Gaz. vol. 214; p. 744.
 Cartridge-belt, C. W. Laird, P. M. Mentayne, and P. A. Degaille. No. 1,150,435; Aug. 17; Gaz. vol. 217; p. 859.
 Cartridge-belt for machine-guns, J. Henneveld and A. Lemci. No. 1,136,956; Apr. 27; Gaz. vol. 213; p. 1137.
 Cartridge belt or carrier, V. H. Jennings. No. 1,139,874; May 18; Gaz. vol. 214; p. 831.
 Cartridge, Blasting-, P. Heylandt. No. 1,154,770; Sept. 28; Gaz. vol. 218; p. 943.
 Cartridge, Blasting-, W. Weber. No. 1,157,270; Oct. 19; Gaz. vol. 219; p. 736.
 Cartridge-box carrier, J. P. Lenbarth. No. 1,139,779; May 18; Gaz. vol. 214; p. 797.
 Cartridge, Fuse-, E. Stranzky. No. 1,151,135; Aug. 24; Gaz. vol. 217; p. 1158.
 Cartridge-fuse, Renewable, A. L. Eustice. No. 1,129,459; Feb. 23; Gaz. vol. 211; p. 1103.
 Cartridge-fuse, Renewable, H. M. Huxley. No. 1,129,395; Feb. 23; Gaz. vol. 211; p. 1081.
 Cartridge-holder, G. Sergeeff. No. 1,137,543; Apr. 27; Gaz. vol. 213; p. 1348.
 Cartridge, Hydraulic, D. V. Sickman. No. 1,141,077; May 25; Gaz. vol. 214; p. 1285.
 Cartridge, Hydraulic, D. V. Sickman. No. 1,144,005; June 22; Gaz. vol. 215; p. 1120.
 Cartridge-loading clip, T. C. Johnson. No. 1,161,688; Nov. 23; Gaz. vol. 220; p. 1287.
 Cartridge-loading machine, J. F. O'Brien. No. 1,126,051; Jan. 26; Gaz. vol. 210; p. 1338.
 Cartridge-loading machine, A. von Henriquez. No. 1,164,433; Dec. 14; Gaz. vol. 221; p. 639.
 Cartridge-making machine, J. F. O'Brien. No. 1,129,809; Feb. 23; Gaz. vol. 211; p. 1221.
 Cartridge-shell, L. B. and W. E. Keplinger. No. 1,156,406; Oct. 12; Gaz. vol. 219; p. 402.
 Cartridge, Waterproof shot-, H. C. Iritham. No. 1,144,379; June 29; Gaz. vol. 215; p. 1281.
 Carving-fork, W. J. Hilton. No. 1,160,895; Nov. 16; Gaz. vol. 220; p. 960.
 Carving-machine, E. R. Lochman. No. 1,138,126; May 4; Gaz. vol. 214; p. 144.
 Case: See—
 Annunciator-case.
 Battery-case.
 Robbin-case.
 Bottle-case.
 Bottle-shipping case.
 Burlal-case.
 Butter-case.
 Butter and egg case.
 Can-case.
 Card-case.
 Carrying-case.
 Carrying and display case.
 Cell-case.
 Cigar-case.
 Cigarette-case.
 Cigarette-paper case.
 Collapsible case.
 Collar and necktie case.
 Corn-case.
 Demijohn-case.
 Disk-record case.
 Display-case.
 Displaying-case.
 Egg-case.
 Egg-mailing case.
 Egg-shipping case.
 Electric-switch wall-case.
 Exhibiting and vending case.
 Eyeglass-case.
 File-case.
 Filing-case.
 Flash-light case.
 Hinged case.
 Instrument-case.
 Key-case.
 Lamp-case.
 Lamp-socket case.
 Mailing-case.
 Match-case.
 Meat-case.
 Meter-case.
 Museum-case.
 Musical-instrument case.
 Noiseless case.
 Packing-case.
 Packing or shipping case.
 Piano-case.
 Picture-film case.
 Picture-shipping case.
 Pocket-case.
 Pulley-case.
 Record-filing case.
 Sample-case.
 Shipping-case.
 Shipping and display case.
 Show-case.
 Shuttle-case.
 Sorting and filing case.
 Suitcase.
 Ticket-case.
 Tire-case.
 Tobacco-case.
 Toilet-case.
 Transportation-case.
 Trick-case.
 Watch and clock holding case.
 Watchcase.

Alphabetical list of inventions—Continued.

- Case. F. S. Dickinson. No. 1,156,762; Oct. 12; Gaz. vol. 219; p. 526.
- Case for chewing-gum, tickets, or other similar articles. D. C. Brown. No. 1,131,112; Mar. 9; Gaz. vol. 212; p. 475.
- Case-hardening. A. W. Machlet. No. 1,152,959; Sept. 7; Gaz. vol. 218; p. 213.
- Case-hardening compound. A. O. Blaich. No. 1,138,073; May 4; Gaz. vol. 214; p. 124.
- Casing-coupling. J. A. Mason. No. 1,141,910; June 1; Gaz. vol. 215; p. 290.
- Casing-coupling. J. A. Talbot. No. 1,128,634; Feb. 16; Gaz. vol. 211; p. 778.
- Casing-head. A. G. Heggem. No. 1,165,253; Dec. 21; Gaz. vol. 221; p. 967.
- Casing-spear. H. L. Boardman. No. 1,150,095; Aug. 17; Gaz. vol. 217; p. 740.
- Casing-spear. J. J. Guise. No. 1,144,592; June 29; Gaz. vol. 215; p. 1352.
- Caseln from buttermilk, Making. L. Ellersen. No. 1,126,429; Jan. 26; Gaz. vol. 210; p. 1255.
- Caseln masses, Forming. F. Thomas. No. 1,159,878; Nov. 9; Gaz. vol. 220; p. 550.
- Caseln masses, Forming. F. Thomas. No. 1,159,879; Nov. 9; Gaz. vol. 220; p. 550.
- Casement-adjuster. W. L. Foster and H. J. Williams. No. 1,146,241; July 13; Gaz. vol. 216; p. 464.
- Casement-stays, Locking device for. D. Walter. No. 1,148,877; Aug. 3; Gaz. vol. 217; p. 139.
- Cash and autographic register. W. A. Chryst. No. 1,140,443; May 25; Gaz. vol. 214; p. 1065.
- Cash and autographic register. C. F. Kettering and W. A. Chryst. No. 1,137,062; Apr. 27; Gaz. vol. 213; p. 1176.
- Cash and autographic register. E. J. Von Pein. No. 1,131,753; Mar. 16; Gaz. vol. 212; p. 732.
- Cash and autographic register. J. A. Werner. No. 1,131,758; Mar. 16; Gaz. vol. 212; p. 734.
- Cash and autographic register. J. A. Werner. No. 1,131,759; Mar. 16; Gaz. vol. 212; p. 734.
- Cash and credit register. E. S. Church. No. 1,136,101; Apr. 20; Gaz. vol. 213; p. 796.
- Cash-box. E. Monteleone. No. 1,156,919; Oct. 19; Gaz. vol. 219; p. 610.
- Cash-register. T. Carroll. No. 1,131,771; Mar. 16; Gaz. vol. 212; p. 739.
- Cash-register. T. Carroll. No. 1,149,342; Aug. 10; Gaz. vol. 217; p. 409.
- Cash-register. T. Carroll. No. 1,163,738; Dec. 14; Gaz. vol. 221; p. 397.
- Cash-register. E. S. Church. No. 1,134,183; Apr. 6; Gaz. vol. 213; p. 36.
- Cash-register. J. P. Cleal. No. 1,128,409; Feb. 16; Gaz. vol. 211; p. 700.
- Cash-register. J. P. Cleal. No. 1,142,079; June 8; Gaz. vol. 215; p. 386.
- Cash-register. J. P. Cleal. No. 1,154,096; Sept. 21; Gaz. vol. 218; p. 684.
- Cash-register. J. P. Cleal. No. 1,161,809; Nov. 23; Gaz. vol. 220; p. 1328.
- Cash-register. K. Field. No. 1,149,903; Aug. 10; Gaz. vol. 217; p. 611.
- Cash-register. F. L. Fuller. No. 1,161,042; Nov. 23; Gaz. vol. 220; p. 1058.
- Cash-register. W. R. Heinitz. No. 1,134,195; Apr. 6; Gaz. vol. 213; p. 41.
- Cash-register. M. Jacob. No. 1,153,309; Sept. 14; Gaz. vol. 218; p. 371.
- Cash-register. C. F. Kettering and W. A. Chryst. No. 1,137,061; Apr. 27; Gaz. vol. 213; p. 1175.
- Cash-register. C. F. Kettering and W. A. Chryst. No. 1,144,418; June 29; Gaz. vol. 215; p. 1294.
- Cash-register. G. Macbeth. No. 1,130,182; Mar. 2; Gaz. vol. 212; p. 119.
- Cash-register. W. H. Muzzy. No. 1,140,476; May 25; Gaz. vol. 214; p. 1079.
- Cash-register. W. H. Muzzy. No. 1,153,330; Sept. 14; Gaz. vol. 218; p. 379.
- Cash-register. W. H. Muzzy. No. 1,158,537; Nov. 2; Gaz. vol. 220; p. 46.
- Cash-register. C. L. Nelson. No. 1,162,801; Dec. 7; Gaz. vol. 221; p. 24.
- Cash-register. J. H. Patterson. No. 1,150,958; Aug. 24; Gaz. vol. 217; p. 1099.
- Cash-register. E. J. Von Pein. No. 1,131,754; Mar. 16; Gaz. vol. 212; p. 732.
- Cash-register. E. J. Von Pein. No. 1,156,258; Oct. 12; Gaz. vol. 219; p. 348.
- Cash-register. J. Vuillaume and F. Marbach. No. 1,153,361; Sept. 14; Gaz. vol. 218; p. 392.
- Cash-register. J. A. Werner. No. 1,134,174; Apr. 6; Gaz. vol. 213; p. 33.
- Cash-register. J. A. Werner. No. 1,146,983; July 20; Gaz. vol. 216; p. 744.
- Cash-register. J. A. Werner. No. 1,161,094; Nov. 23; Gaz. vol. 220; p. 1076.
- Cash-register alarm and lock control. H. A. Martin. No. 1,136,152; Apr. 20; Gaz. vol. 213; p. 814.
- Cash-register and money-changer. K. Maier. No. 1,128,889; Feb. 16; Gaz. vol. 211; p. 866.
- Cash register and recorder, Multiple. C. F. Kettering and W. A. Chryst. No. 1,151,190; Aug. 24; Gaz. vol. 217; p. 1177.
- Cash-register attachment. M. Jacob. No. 1,123,302; Jan. 5; Gaz. vol. 210; p. 34.
- Cash-register attachment. M. Jacob. No. 1,123,303; Jan. 5; Gaz. vol. 210; p. 35.
- Cash-register attachment. W. H. Muzzy and F. L. Fuller. No. 1,161,069; Nov. 23; Gaz. vol. 220; p. 1067.
- Cash-register, Departmental. J. A. Werner. No. 1,152,582; Sept. 7; Gaz. vol. 218; p. 75.
- Cash-register-drawer mechanism. C. L. Nelson. No. 1,123,353; Jan. 5; Gaz. vol. 210; p. 54.
- Cash-register illuminator. N. R. Lippincott. No. 1,143,290; June 15; Gaz. vol. 215; p. 849.
- Cash-register indicator. C. L. Nelson. No. 1,156,091; Oct. 12; Gaz. vol. 219; p. 293.
- Cash-register indicator, illuminated. C. F. Kettering and W. A. Chryst. No. 1,131,246; Mar. 9; Gaz. vol. 212; p. 521.
- Cash-register, Multiple. F. M. Carroll. No. 1,163,739; Dec. 14; Gaz. vol. 221; p. 397.
- Cash-register, Multiple. T. Carroll. No. 1,150,997; Aug. 24; Gaz. vol. 217; p. 1111.
- Cash-register, Multiple. W. A. Chryst. No. 1,161,026; Nov. 23; Gaz. vol. 220; p. 1052.
- Cash-register, Multiple. E. J. Von Pein. No. 1,153,360; Sept. 14; Gaz. vol. 218; p. 391.
- Cash-register, Multiple-counter. F. Skerl. No. 1,137,919; May 4; Gaz. vol. 214; p. 68.
- Cash-register sales-indicator. C. Sulfer. No. 1,135,554; Apr. 13; Gaz. vol. 213; p. 564.
- Cash-register, Total-adding. C. Sulfer. No. 1,135,551; Apr. 13; Gaz. vol. 213; p. 563.
- Cash-register, Total-printing. J. A. Warner. No. 1,125,613; Jan. 19; Gaz. vol. 210; p. 929.
- Cash-registers, Check-printer attachment for. B. B. Wells. No. 1,151,747; Aug. 31; Gaz. vol. 217; p. 1412.
- Cashier, Automatic. E. J. Brandt. No. 1,143,167; June 15; Gaz. vol. 215; p. 805.
- Cask. H. C. Wiedeman. No. 1,145,106; July 6; Gaz. vol. 216; p. 47.
- Cask. H. C. Wiedeman and F. A. Schaum. No. 1,133,688; Mar. 30; Gaz. vol. 212; p. 1521.
- Cask, Metal. J. J. Wolf. No. 1,164,152; Dec. 14; Gaz. vol. 221; p. 541.
- Cask-washing machine. J. F. Bell. No. 1,151,334; Aug. 24; Gaz. vol. 217; p. 1225.
- Casks and the like, Apparatus for removing and applying coats of pitch and the like to. W. Arneemann. No. 1,128,278; Feb. 16; Gaz. vol. 211; p. 657.
- Casket. C. M. Callahan. No. 1,148,828; Aug. 3; Gaz. vol. 217; p. 124.
- Casket and grave-vault, Combined. J. W. Freeman. No. 1,128,865; Feb. 16; Gaz. vol. 211; p. 858.
- Casket, Burial-. W. F. Savidge. No. 1,124,065; Jan. 5; Gaz. vol. 210; p. 294.
- Casket-handle. E. R. Sargent. No. 1,164,220; Dec. 14; Gaz. vol. 221; p. 563.
- Casket-handle, Detachable. J. C. Beck and J. M. Doddridge. No. 1,128,573; Feb. 16; Gaz. vol. 211; p. 757.
- Casket, Metallic. J. F. Orr. No. 1,151,037; Aug. 24; Gaz. vol. 217; p. 1126.
- Caster. C. J. Adams. No. 1,136,915; Apr. 27; Gaz. vol. 213; p. 1123.
- Caster. G. S. Allen. No. 1,160,121; Nov. 16; Gaz. vol. 220; p. 688.
- Caster. E. H. Costlow. No. 1,139,105; May 11; Gaz. vol. 214; p. 526.
- Caster. T. G. Gellersbach. No. 1,164,181; Dec. 14; Gaz. vol. 221; p. 550.
- Caster. G. H. Greene. No. 1,150,359; Aug. 17; Gaz. vol. 217; p. 834.
- Caster. A. Grubba and J. Ponke. No. 1,148,837; Aug. 3; Gaz. vol. 217; p. 127.
- Caster. W. F. Harris. No. 1,156,287; Oct. 12; Gaz. vol. 219; p. 357.
- Caster. J. J. Lembke. No. 1,144,365; June 29; Gaz. vol. 215; p. 1277.
- Caster. C. S. Lenox. No. 1,147,106; July 20; Gaz. vol. 216; p. 785.
- Caster. W. H. McAllister. No. 1,162,627; Nov. 30; Gaz. vol. 220; p. 1655.
- Caster. C. J. Porter, Sr. No. 1,150,883; Aug. 24; Gaz. vol. 217; p. 1073.
- Caster. R. E. Tompkins. No. 1,135,226; Apr. 13; Gaz. vol. 213; p. 449.
- Caster. O. G. Wallace. No. 1,127,125; Feb. 2; Gaz. vol. 211; p. 163.
- Caster. J. M. Webster. No. 1,138,818; May 11; Gaz. vol. 214; p. 424.
- Caster, Adjustable. J. Hall and J. L. O. Connor. No. 1,162,602; Nov. 30; Gaz. vol. 220; p. 1647.
- Caster and the like, Ball-bearing. B. H. Bower and O. L. Osborn. No. 1,153,838; Sept. 14; Gaz. vol. 218; p. 560.
- Caster, Ball-. R. H. Schleicher. No. 1,154,448; Sept. 21; Gaz. vol. 218; p. 805.
- Caster device for stove-legs. C. G. Overmyer. No. 1,161,007; Nov. 16; Gaz. vol. 220; p. 1001.
- Caster for beds, operating-tables, and the like. D. K. Hall. No. 1,133,798; Mar. 30; Gaz. vol. 212; p. 1558.
- Caster for furniture, Ball-bearing. M. D. Gray. No. 1,139,271; May 11; Gaz. vol. 214; p. 582.
- Caster for pianos and other uses. A. B. Diss. No. 1,160,583; Nov. 16; Gaz. vol. 220; p. 849.

- Caster for pianos and other uses. A. B. Diss. No. 1,160,584; Nov. 16; Gaz. vol. 220; p. 850.
- Caster, Furniture-. H. L. Hermans. No. 1,163,537; Dec. 7; Gaz. vol. 221; p. 280.
- Caster, Furniture-. A. F. Thomes. No. 1,145,096; July 6; Gaz. vol. 216; p. 44.
- Caster, Glide-. A. T. Petersen. No. 1,155,269; Sept. 28; Gaz. vol. 218; p. 1111.
- Caster, Lock-lever. J. A. Johnson. No. 1,137,329; Apr. 27; Gaz. vol. 213; p. 1274.
- Caster-mounting. A. H. Neller. No. 1,155,606; Oct. 5; Gaz. vol. 219; p. 98.
- Caster-mounting. A. H. Neller. No. 1,155,607; Oct. 5; Gaz. vol. 219; p. 98.
- Caster or wheel. P. and C. R. Dosch. No. 1,162,145; Nov. 30; Gaz. vol. 220; p. 1492.
- Caster-pintles, Socket for. A. B. Diss. No. 1,125,272; Jan. 19; Gaz. vol. 210; p. 810.
- Caster raising and lowering device. O. A. Skibbe and B. Salvage. No. 1,129,429; Feb. 23; Gaz. vol. 211; p. 1093.
- Caster-socket. J. M. Adams. No. 1,136,201; Apr. 20; Gaz. vol. 213; p. 832.
- Caster-socket. C. N. Clark. No. 1,159,571; Nov. 9; Gaz. vol. 220; p. 437.
- Caster-socket. B. H. Jones. No. 1,141,342; June 1; Gaz. vol. 215; p. 91.
- Caster-socket. G. E. Neuberth. No. 1,128,623; Feb. 16; Gaz. vol. 211; p. 774.
- Caster-spring. C. A. Miller. No. 1,144,771; June 29; Gaz. vol. 215; p. 1415.
- Caster structure for tubular legs. H. Ill. No. 1,125,104; Jan. 19; Gaz. vol. 210; p. 748.
- Caster, Swivel-. J. L. Chesnutt. No. 1,142,930; June 15; Gaz. vol. 215; p. 723.
- Casting. H. Hess. No. 1,131,697; Mar. 16; Gaz. vol. 212; p. 712.
- Casting and making the same, White-metal. C. Pack. No. 1,156,093; Oct. 12; Gaz. vol. 219; p. 294.
- Casting and uniting metals. A. M. Craig. No. 1,153,197; Sept. 14; Gaz. vol. 218; p. 331.
- Casting apparatus. P. J. Bradley. No. 1,157,840; Oct. 26; Gaz. vol. 219; p. 997.
- Casting apparatus. J. M. Feerick. No. 1,141,788; June 1; Gaz. vol. 215; p. 246.
- Casting apparatus. F. C. Hinman. No. 1,130,974; Mar. 9; Gaz. vol. 212; p. 428.
- Casting apparatus, Distributer for rotary. J. Le May. No. 1,161,701; Nov. 23; Gaz. vol. 220; p. 1290.
- Casting, Apparatus for multiple-layer steel. A. Rojekoff. No. 1,148,801; Aug. 3; Gaz. vol. 217; p. 114.
- Casting apparatus, Metal-. J. A. Carl. No. 1,151,660; Aug. 31; Gaz. vol. 217; p. 1383.
- Casting blocks or shapes of cementitious, viscous, or other hardening materials, Apparatus for. G. Atterbury. No. 1,123,832; Jan. 5; Gaz. vol. 210; p. 216.
- Casting bodies of ceramic mass, Apparatus for. C. Eckstein. No. 1,163,328; Dec. 7; Gaz. vol. 221; p. 207.
- Casting fluid metals, Art or method of and apparatus for. O. G. Sandage. No. 1,156,557; Oct. 12; Gaz. vol. 219; p. 454.
- Casting-furnace. R. T. Johnston. No. 1,123,883; Jan. 5; Gaz. vol. 210; p. 234.
- Casting lead pigs, Machine for. J. F. Miller. No. 1,157,794; Oct. 26; Gaz. vol. 219; p. 980.
- Casting-machine. A. Blattstein. No. 1,124,841; Jan. 12; Gaz. vol. 210; p. 621.
- Casting-machine. C. M. Grey. No. 1,153,220; Sept. 14; Gaz. vol. 218; p. 340.
- Casting-machine. H. H. Hewitt. No. 1,158,921; Nov. 2; Gaz. vol. 220; p. 179.
- Casting-machine. P. S. Menough. No. 1,162,246; Nov. 30; Gaz. vol. 220; p. 1527.
- Casting-machine. R. Taylor and L. A. Miley. No. 1,156,446; Oct. 12; Gaz. vol. 219; p. 415.
- Casting-machine, Centrifugal. J. Le May and M. M. House. No. 1,128,009; Feb. 9; Gaz. vol. 211; p. 513.
- Casting-machine, Centrifugal. P. J. Pankratz. No. 1,142,840; June 15; Gaz. vol. 215; p. 689.
- Casting-machine, Continuous. G. Mellen. No. 1,139,887; May 18; Gaz. vol. 214; p. 836.
- Casting-machine guide, Continuous. G. Mellen. No. 1,139,889; May 18; Gaz. vol. 214; p. 836.
- Casting-machine, Rotary. H. A. W. Wood. No. 1,129,154; Feb. 23; Gaz. vol. 211; p. 996.
- Casting machine, Slug-. E. Price. No. 1,151,612; Aug. 31; Gaz. vol. 217; p. 1363.
- Casting-machines, Automatic metal-feed for continuous. G. Mellen. No. 1,139,888; May 18; Gaz. vol. 214; p. 836.
- Casting metal ingots, Apparatus for. C. W. Lummis. No. 1,143,215; June 15; Gaz. vol. 215; p. 824.
- Casting metals. S. P. Wetherill, Jr. No. 1,150,318; Aug. 17; Gaz. vol. 217; p. 820.
- Casting metals, Apparatus for. W. F. Sollis and J. Lambert. No. 1,150,974; Aug. 24; Gaz. vol. 217; p. 1104.
- Casting metals of high melting-point. A. L. J. Queneau. No. 1,126,079; Jan. 26; Gaz. vol. 210; p. 1131.
- Casting, Method of and apparatus for continuous. G. Mellen. No. 1,139,885; May 18; Gaz. vol. 214; p. 835.
- Casting-pot. G. Mellen. No. 1,139,886; May 18; Gaz. vol. 214; p. 835.
- Castings and the like, Device for dressing. T. Stieglmeyer. No. 1,152,570; Sept. 7; Gaz. vol. 218; p. 71.
- Castings, Apparatus for annealing malleable-iron. J. H. Fryer. No. 1,150,512; Aug. 17; Gaz. vol. 217; p. 887.
- Castings, Apparatus for preventing blow-holes in. P. Wineman. No. 1,161,101; Nov. 23; Gaz. vol. 220; p. 1078.
- Castings, Apparatus for producing. C. H. Bierbaum. No. 1,138,443; May 4; Gaz. vol. 214; p. 254.
- Castings-cleaning apparatus. C. A. Peterson. No. 1,159,707; Nov. 9; Gaz. vol. 220; p. 487.
- Castings, Forming. L. G. Woods. No. 1,166,167; Dec. 28; Gaz. vol. 221; p. 1327.
- Castings, Making. E. H. Mumford. No. 1,123,914; Jan. 5; Gaz. vol. 210; p. 244.
- Castings-making apparatus. G. M. Clark, Jr. No. 1,160,973; Nov. 16; Gaz. vol. 220; p. 989.
- Castings, Manufacturing iron-oxid. L. Scherbel. No. 1,163,467; Dec. 7; Gaz. vol. 221; p. 256.
- Castings, Method of and mold for making. C. B. Jacobs. No. 1,153,231; Sept. 14; Gaz. vol. 218; p. 344.
- Castings, Mold for composite steel. A. Rojekoff. No. 1,155,510; Oct. 5; Gaz. vol. 219; p. 66.
- Castings, Mold for producing composite metal. A. Rojekoff. No. 1,151,398; Aug. 24; Gaz. vol. 217; p. 1246.
- Castings, Molding steel. J. C. Davis. No. 1,165,651; Dec. 28; Gaz. vol. 221; p. 1144.
- Castings, Strengthening steel, cast-iron, and alloy. H. E. Field and F. C. T. Daniels. No. 1,164,487; Dec. 14; Gaz. vol. 221; p. 658.
- Catalogue and portfolio and art of compiling issuable catalogues therefrom, Combined commercial. I. E. Palmer. No. 1,127,370; Feb. 2; Gaz. vol. 211; p. 245.
- Catalyst for the production of ammonia and making the same. F. W. De Jahn. No. 1,143,366; June 15; Gaz. vol. 215; p. 877.
- Catalyst for the production of ammonia and making the same. F. W. De Jahn. No. 1,159,364; Nov. 9; Gaz. vol. 220; p. 364.
- Catalyst for the production of ammonia and making the same. F. W. De Jahn. No. 1,159,365; Nov. 9; Gaz. vol. 220; p. 364.
- Catalysts, Manufacture of. R. F. Bacon and B. H. Nicolet. No. 1,152,591; Sept. 7; Gaz. vol. 218; p. 79.
- Catalytic material and making same. C. Ellis. No. 1,151,003; Aug. 24; Gaz. vol. 217; p. 1113.
- Catalytic oxidizing or purifying means. N. Statham. No. 1,146,363; July 13; Gaz. vol. 216; p. 504.
- Catalyzer and making same. C. Ellis. No. 1,156,068; Oct. 12; Gaz. vol. 219; p. 285.
- Catalyzer and making same. W. D. Richardson. No. 1,151,718; Aug. 31; Gaz. vol. 217; p. 1402.
- Catalyzer containing silicon and making same. N. Sulzberger. No. 1,143,332; June 15; Gaz. vol. 215; p. 864.
- Catalyzer, Semireduced hydrogenation-. C. Ellis. No. 1,159,480; Nov. 9; Gaz. vol. 220; p. 406.
- Catalyzers, Making. C. Ellis. No. 1,156,674; Oct. 12; Gaz. vol. 219; p. 496.
- Catalyzers, Manufacture of. D. Wesson. No. 1,143,339; June 15; Gaz. vol. 215; p. 867.
- Catalyzers, Preparing. A. J. Spieler. No. 1,139,592; May 18; Gaz. vol. 214; p. 731.
- Catalyzing materials, Treating. C. B. Morey. No. 1,127,911; Feb. 9; Gaz. vol. 211; p. 479.
- Catamaran. M. Phillips. No. 1,130,627; Mar. 2; Gaz. vol. 212; p. 275.
- Catamenial appliance. F. C. Cornell. No. 1,159,362; Nov. 9; Gaz. vol. 220; p. 363.
- Catamenial appliance. J. Rubel. No. 1,144,253; June 22; Gaz. vol. 215; p. 1209.
- Catamenial sack. L. M. Goodnou. No. 1,157,774; Oct. 26; Gaz. vol. 219; p. 973.
- Catamenial sack. G. B. Smith. No. 1,148,548; Aug. 3; Gaz. vol. 217; p. 23.
- Catch. E. A. Reinke. No. 1,160,758; Nov. 16; Gaz. vol. 220; p. 914.
- Catch and release, Magazine. G. Hammond. No. 1,138,378; May 4; Gaz. vol. 214; p. 232.
- Catch, Automatic. P. T. Roeder. No. 1,140,852; May 25; Gaz. vol. 214; p. 1208.
- Catch, Sliding. J. Goddard. No. 1,163,002; Dec. 7; Gaz. vol. 221; p. 94.
- Catching and holding device. V. Winquist. No. 1,145,640; July 6; Gaz. vol. 216; p. 232.
- Catenary hanger. W. C. Starkey. No. 1,142,378; June 8; Gaz. vol. 215; p. 491.
- Catenary structure. T. Varney. No. 1,157,463; Oct. 19; Gaz. vol. 219; p. 804.
- Catheter-user's standard apparatus. J. F. Spalding. No. 1,154,668; Sept. 28; Gaz. vol. 218; p. 910.
- Catheter-user's traveling apparatus. J. F. Spalding. No. 1,161,261; Nov. 23; Gaz. vol. 220; p. 1138.
- Cathode for electrolytic cells. F. G. Wheeler. No. 1,152,772; Sept. 7; Gaz. vol. 218; p. 144.
- Cathode-forming sheets, Production of. E. A. Guggenheim. No. 1,163,337; Dec. 7; Gaz. vol. 221; p. 211.
- Cattle-guard. I. L. Bolinger. No. 1,156,856; Oct. 12; Gaz. vol. 219; p. 560.
- Cattle-guard. B. Estes and E. B. Robinson. No. 1,138,548; May 4; Gaz. vol. 214; p. 289.

Alphabetical list of inventions—Continued.

- Cattle-guard. W. J. Hickey. No. 1,125,095; Jan. 19; Gaz. vol. 210; p. 745.
- Cattle-guard. J. Lawrie and D. F. Brazel. No. 1,140,171; May 18; Gaz. vol. 214; p. 937.
- Cattle-guard. C. T. McCormick. No. 1,131,848; Mar. 16; Gaz. vol. 212; p. 768.
- Cattle-guard. J. J. Morse and W. B. Mallette. No. 1,136,158; Apr. 20; Gaz. vol. 213; p. 817.
- Cattle-guard. J. M. Mulligan. No. 1,165,276; Dec. 21; Gaz. vol. 221; p. 974.
- Cattle-guard. E. J. Pearson. No. 1,149,854; Aug. 10; Gaz. vol. 217; p. 593.
- Cattle-guard. D. A. Sims. No. 1,147,561; July 20; Gaz. vol. 216; p. 945.
- Cattle-guard. F. A. Stievenard. No. 1,131,284; Mar. 9; Gaz. vol. 212; p. 534.
- Cattle-guard. L. L. Tapp. No. 1,155,968; Oct. 5; Gaz. vol. 219; p. 223.
- Cattle-guard. Metal. E. Cook. No. 1,125,967; Jan. 26; Gaz. vol. 210; p. 1088.
- Cattle-tie. A. Hiatt. No. 1,129,093; Feb. 23; Gaz. vol. 211; p. 975.
- Cedar chest. E. H. Lane. No. 1,138,578; May 4; Gaz. vol. 214; p. 298.
- Ceiling-washing machine. N. J. Soderlund. No. 1,134,925; Apr. 6; Gaz. vol. 213; p. 299.
- Celery-bleaching device. J. Jr. and R. Ney. No. 1,124,640; Jan. 12; Gaz. vol. 210; p. 549.
- Celestial sphere for use in schools and colleges. G. W. Minkler. No. 1,162,300; Nov. 30; Gaz. vol. 220; p. 1546.
- Cell-case. A. E. Burtchell. No. 1,160,493; Nov. 16; Gaz. vol. 220; p. 817.
- Cell-case and blank therefor. J. B. Miller. No. 1,157,712; Oct. 26; Gaz. vol. 219; p. 952.
- Cell-case filler. F. O. Weiss. No. 1,140,643; May 25; Gaz. vol. 214; p. 1137.
- Celluloid-covered articles, Manufacture of. W. H. Kingston. No. 1,164,821; Dec. 21; Gaz. vol. 221; p. 815.
- Celluloid-like mass and production thereof, Non-inflammable. E. Bronnert. No. 1,153,596; Sept. 14; Gaz. vol. 218; p. 476.
- Cellulose and manufacture, Purified hydrated. A. Pellerin. No. 1,128,624; Feb. 16; Gaz. vol. 211; p. 775.
- Cellulose and other products, Producing. B. M. E. L. P. von Ehrenthal. No. 1,153,884; Sept. 14; Gaz. vol. 218; p. 559.
- Cellulose esters, cellulose compounds, india-rubber, and other ingredients, Manufacture of substances from. L. Collardon. No. 1,128,851; Feb. 16; Gaz. vol. 211; p. 853.
- Cellulose or lignocellulose material, Hydrated. J. A. De Cew. No. 1,141,799; May 25; Gaz. vol. 214; p. 1188.
- Cellulose, Preparing solutions of. R. Willstätter. No. 1,141,510; June 1; Gaz. vol. 215; p. 151.
- Cellulose, Producing sulfite. E. Öman. No. 1,130,192; Mar. 2; Gaz. vol. 212; p. 123.
- Cellulose, Solvent for acetyl. W. G. Lindsay. No. 1,143,979; June 22; Gaz. vol. 215; p. 1111.
- Cellulose, Utilizing the organic as well as the inorganic constituents of the waste liquor produced by the boiling of sulfite. R. W. Strehlenert. No. 1,149,420; Aug. 10; Gaz. vol. 217; p. 436.
- Cellulose which is intended for the manufacture of paper, Making innoxious the resin in. S. F. Lagermarck and W. Sverdrup. No. 1,161,696; Nov. 23; Gaz. vol. 220; p. 1289.
- Cement. G. S. Johnston. No. 1,132,721; Mar. 23; Gaz. vol. 212; p. 1134.
- Cement and concrete post mold. A. Z. Pierce. No. 1,146,949; July 20; Gaz. vol. 216; p. 731.
- Cement and fibrous material, Apparatus for mixing. J. Nešetřil. No. 1,138,397; May 4; Gaz. vol. 214; p. 239.
- Cement and like blocks, Machine for making. S. Deards. No. 1,166,353; Dec. 28; Gaz. vol. 221; p. 1387.
- Cement-applying machine. W. F. Lautenschlager. No. 1,140,602; May 25; Gaz. vol. 214; p. 1122.
- Cement-applying machine. W. F. Lautenschlager. No. 1,154,419; Sept. 21; Gaz. vol. 218; p. 794.
- Cement, Artificial-stone. G. Capece. No. 1,141,610; June 1; Gaz. vol. 215; p. 187.
- Cement-block construction. A. C. Shimer. No. 1,162,409; Nov. 30; Gaz. vol. 220; p. 1583.
- Cement-block machine. J. F. Berry and W. E. Burrill. No. 1,143,490; June 15; Gaz. vol. 215; p. 919.
- Cement buildings, Apparatus for construction of. J. M. Thompson. No. 1,130,647; Mar. 2; Gaz. vol. 212; p. 281.
- Cement clinker, Burning Portland-. T. A. Edison. No. 1,152,613; Sept. 7; Gaz. vol. 218; p. 85.
- Cement-coated fabrics, Apparatus for heating. W. B. Wescott. No. 1,124,566; Jan. 12; Gaz. vol. 210; p. 521.
- Cement-form holder. J. R. Mims. No. 1,149,076; Aug. 3; Gaz. vol. 217; p. 209.
- Cement leveling and finishing machine. S. O. Peterson. No. 1,157,899; Oct. 26; Gaz. vol. 219; p. 1018.
- Cement-making. H. Abraham and H. W. Hainis. No. 1,134,573; Apr. 6; Gaz. vol. 213; p. 179.
- Cement, Making hydraulic. H. E. Brown. No. 1,124,238; Jan. 5; Gaz. vol. 210; p. 356.
- Cement, Making hydraulic. W. R. Warren. No. 1,123,964; Jan. 5; Gaz. vol. 210; p. 260.
- Cement, Manufacturing hydraulic. A. V. Carlson. No. 1,130,143; Mar. 2; Gaz. vol. 212; p. 105.
- Cement-mixers, Ratchet mechanism for. E. H. Brandt. No. 1,125,052; Jan. 19; Gaz. vol. 210; p. 730.
- Cement-molds, Collapsible core for. J. Vickers. No. 1,137,932; May 4; Gaz. vol. 214; p. 73.
- Cement or concrete building-stone, Process and apparatus for making. H. Z. Kline. No. 1,164,099; Dec. 14; Gaz. vol. 221; p. 523.
- Cement or concrete steps, Form for making. H. L. Park. No. 1,124,327; Jan. 12; Gaz. vol. 210; p. 435.
- Cement or mortar mixer and elevator. F. Orth. No. 1,161,789; Nov. 23; Gaz. vol. 220; p. 1321.
- Cement-packing machine. A. V. Jensen. No. 1,148,780; Aug. 3; Gaz. vol. 217; p. 107.
- Cement-pipe-making apparatus. A. V. Jensen. No. 1,134,202; Apr. 6; Gaz. vol. 213; p. 43.
- Cement pipe, Mold for manufacturing. J. G. Zwicker. No. 1,160,235; Nov. 16; Gaz. vol. 220; p. 727.
- Cement tie and rail-clamping means, Combination. H. Hammons and E. M. Blacksher. No. 1,147,321; July 20; Gaz. vol. 216; p. 859.
- Cementing-machine. M. F. Brogan. No. 1,141,311; June 1; Gaz. vol. 215; p. 80.
- Cementing-machine. L. W. G. Flynt. No. 1,163,651; Dec. 14; Gaz. vol. 221; p. 365.
- Cementing-machine. J. B. Hadaway. No. 1,134,262; Apr. 6; Gaz. vol. 213; p. 66.
- Cementing-machine. H. Holden. No. 1,138,565; May 4; Gaz. vol. 214; p. 294.
- Cementing-machine. G. J. Julian. No. 1,145,996; July 13; Gaz. vol. 216; p. 377.
- Cementing-machine. C. P. Stanbon. No. 1,138,903; May 11; Gaz. vol. 214; p. 453.
- Cementitious product. C. Ellis. No. 1,151,515; Aug. 24; Gaz. vol. 217; p. 1287.
- Center and axis indicator. H. Jubinville. No. 1,141,396; June 1; Gaz. vol. 215; p. 111.
- Center-pin. J. E. Brogdon. No. 1,152,285; Aug. 31; Gaz. vol. 217; p. 1599.
- Center plate. J. C. Davis. No. 1,157,848; Oct. 26; Gaz. vol. 219; p. 999.
- Center sill. J. O. Neikirk. No. 1,129,416; Feb. 23; Gaz. vol. 211; p. 1088.
- Center-sill reinforcement. T. H. Symington. No. 1,145,944; July 13; Gaz. vol. 216; p. 358.
- Centering. J. B. Blaw. No. 1,125,943; Jan. 26; Gaz. vol. 210; p. 1079.
- Centering and measuring instrument, Combination. C. C. Jacobs. No. 1,164,353; Dec. 14; Gaz. vol. 221; p. 611.
- Centering device. A. Crook. No. 1,140,123; May 18; Gaz. vol. 214; p. 921.
- Centering device. C. D. McArthur. No. 1,134,543; Apr. 6; Gaz. vol. 213; p. 168.
- Centering mechanism. H. F. Marston and J. L. McKittrick. No. 1,134,145; Apr. 6; Gaz. vol. 213; p. 22.
- Centering or scaffolding. A. G. Pierce. No. 1,136,714; Apr. 20; Gaz. vol. 213; p. 1015.
- Centering-spindle, Automatic. B. W. Fjellman. No. 1,163,990; Dec. 14; Gaz. vol. 221; p. 484.
- Centering-tool. C. J. Bergeson. No. 1,152,070; Aug. 31; Gaz. vol. 217; p. 1526.
- Centering-tool. F. Pfeiderer, Jr. and J. N. Bagley. No. 1,160,752; Nov. 16; Gaz. vol. 221; p. 912.
- Centerless engine. L. Passmore. No. 1,153,702; Sept. 14; Gaz. vol. 218; p. 512.
- Centralized automatic control. S. Einstein. No. 1,124,117; Jan. 5; Gaz. vol. 210; p. 312.
- Centrifugal apparatus. W. L. D'Olier and H. H. Stephens. No. 1,124,715; Jan. 12; Gaz. vol. 210; p. 575.
- Centrifugal apparatus. W. L. D'Olier and H. H. Stephens. No. 1,129,178; Feb. 23; Gaz. vol. 211; p. 1004.
- Centrifugal apparatus. W. L. D'Olier and H. H. Stephens. No. 1,163,743; Dec. 14; Gaz. vol. 221; p. 399.
- Centrifugal apparatus. W. Mauss. No. 1,146,269; July 13; Gaz. vol. 216; p. 473.
- Centrifugal burner. J. H. King. No. 1,158,058; Oct. 26; Gaz. vol. 219; p. 1073.
- Centrifugal drier. C. A. Wendell. No. 1,136,988; Apr. 27; Gaz. vol. 213; p. 1148.
- Centrifugal extractor. F. Balzer. No. 1,152,266; Aug. 31; Gaz. vol. 217; p. 1592.
- Centrifugal extractor. W. Bartholomew. No. 1,151,992; Aug. 31; Gaz. vol. 217; p. 1498.
- Centrifugal extractors, Safety device for. G. Binder. No. 1,162,847; Dec. 7; Gaz. vol. 221; p. 41.
- Centrifugal hanger. H. H. Stephens. No. 1,141,430; June 1; Gaz. vol. 215; p. 124.
- Centrifugal machine. W. L. D'Olier. No. 1,132,915; Mar. 23; Gaz. vol. 212; p. 1205.
- Centrifugal machine. S. H. Hall. No. 1,156,285; Oct. 12; Gaz. vol. 219; p. 356.
- Centrifugal machine. E. D. Mackintosh. No. 1,133,811; Mar. 30; Gaz. vol. 212; p. 1564.
- Centrifugal machine. G. ter Meer. No. 1,160,635; Nov. 16; Gaz. vol. 220; p. 869.
- Centrifugal machine. A. R. Robertson. No. 1,124,807; Jan. 12; Gaz. vol. 210; p. 608.
- Centrifugal machine. A. R. Robertson. No. 1,127,824; Feb. 2; Gaz. vol. 211; p. 218.

- Centrifugal machine, Continuous automatic. H. A. Herr. No. 1,166,370; Dec. 28; Gaz. vol. 221; p. 1400.
- Centrifugal machine, Continuous-discharge. J. J. Armstrong. No. 1,153,367; Sept. 14; Gaz. vol. 218; p. 393.
- Centrifugal machines, Closure for. T. A. Bryson. No. 1,160,373; Nov. 16; Gaz. vol. 220; p. 774.
- Centrifugal machines, Disk liner for. M. Leitch. No. 1,160,624; Nov. 16; Gaz. vol. 220; p. 865.
- Centrifugal machines, Elastic bearing for. G. F. Fowler. No. 1,126,971; Feb. 2; Gaz. vol. 211; p. 107.
- Centrifugal machines, Means for driving. M. H. Barker and C. A. Adams. No. 1,146,767; July 13; Gaz. vol. 216; p. 647.
- Centrifugal machines, Suspension and driving means for. M. H. Barker. No. 1,139,473; May 18; Gaz. vol. 214; p. 689.
- Centrifugal separation. T. E. Brown. No. 1,159,741; Nov. 9; Gaz. vol. 220; p. 499.
- Centrifugal separation. T. E. Brown. No. 1,165,567; Dec. 28; Gaz. vol. 221; p. 1113.
- Centrifugal separator. E. W. Beach. No. 1,158,959; Nov. 2; Gaz. vol. 220; p. 192.
- Centrifugal separator. D. Burch. No. 1,161,839; Nov. 30; Gaz. vol. 220; p. 1385.
- Centrifugal separator. V. J. Gianelloni. No. 1,166,347; Dec. 28; Gaz. vol. 221; p. 1392.
- Centrifugal separator. J. McCallum. No. 1,154,575; Sept. 21; Gaz. vol. 218; p. 847.
- Centrifugal separator. J. M. Murphy. No. 1,146,438; July 13; Gaz. vol. 216; p. 533.
- Centrifugal separator. G. E. Sanford. No. 1,161,981; Nov. 30; Gaz. vol. 220; p. 1434.
- Centrifugal separator. D. B. Weston and M. H. Barker. No. 1,132,814; Mar. 23; Gaz. vol. 212; p. 1169.
- Centrifugal separator, Planetary. W. Mauss. No. 1,126,547; Jan. 26; Gaz. vol. 210; p. 1300.
- Centrifugal separators and the like, Lubricating means for. A. E. Johansson. No. 1,151,271; Aug. 24; Gaz. vol. 217; p. 1205.
- Centrifugal separators, Device for use in cleaning disks of. C. H. Hackett and T. W. Morgan. No. 1,127,435; Feb. 9; Gaz. vol. 211; p. 310.
- Centrifugal spray-producer. S. Crosbie. No. 1,149,810; Aug. 10; Gaz. vol. 217; p. 576.
- Centrifugal switch. H. M. Scheibe. No. 1,162,518; Nov. 30; Gaz. vol. 220; p. 1621.
- Centrifugal switch. M. L. Severy and G. B. Sinclair. No. 1,163,040; Dec. 7; Gaz. vol. 221; p. 107.
- Centrifugal switch. H. L. Zabriskie. No. 1,155,985; Oct. 5; Gaz. vol. 219; p. 228.
- Centrifugally-operated brake. W. and A. L. Speer. No. 1,162,411; Nov. 30; Gaz. vol. 220; p. 1583.
- Ceramic and other porous objects, Impregnating. M. Grunzweig. No. 1,124,891; Jan. 12; Gaz. vol. 210; p. 638.
- Ceramic materials, Shaping. E. R. Berry. No. 1,131,463; Mar. 9; Gaz. vol. 212; p. 597.
- Ceramic surfaces, Process and means for securing metallic coats on. L. Heller. No. 1,126,211; Jan. 26; Gaz. vol. 210; p. 1179.
- Cereal flake, Puffed. F. B. Martin. No. 1,161,323; Nov. 23; Gaz. vol. 220; p. 1159.
- Cereal former and toaster. O. M. Graves. No. 1,138,747; May 11; Gaz. vol. 214; p. 398.
- Cereal preparation. W. A. Rullman. No. 1,163,175; Dec. 7; Gaz. vol. 221; p. 155.
- Cereal product and making. F. M. Kellogg. No. 1,145,021; July 6; Gaz. vol. 216; p. 16.
- Cereal products, Preparing shredded. J. L. Kellogg. No. 1,159,045; Nov. 2; Gaz. vol. 220; p. 219.
- Cereal products to form, Means for reducing. H. D. Perky. No. 1,143,311; June 15; Gaz. vol. 215; p. 857.
- Cereals, Apparatus for bleaching and aging. J. M. Williams. No. 1,132,058; Mar. 16; Gaz. vol. 212; p. 843.
- Certificate, Composite stock. M. H. Avram. No. 1,148,946; Aug. 3; Gaz. vol. 217; p. 163.
- Certificate of deposit, Coupon. M. S. Senton. No. 1,141,838; June 1; Gaz. vol. 215; p. 262.
- Certificate, Premium-. R. E. Gregg. No. 1,149,044; Aug. 3; Gaz. vol. 217; p. 198.
- Certificates and the like, Machine for making and recording. W. I. Ohmer and J. E. McAllister. No. 1,139,567; May 18; Gaz. vol. 214; p. 722.
- Cesspool. L. E. Terry. No. 1,155,970; Oct. 5; Gaz. vol. 219; p. 224.
- Cesspool, Underground. B. F. Ellis and G. D. Greene. No. 1,150,510; Aug. 17; Gaz. vol. 217; p. 886.
- Chain. J. M. Dodge. No. 1,130,581; Mar. 2; Gaz. vol. 212; p. 260.
- Chain. I. G. Hedrick and V. H. Cochrane. No. 1,130,970; Mar. 9; Gaz. vol. 212; p. 426.
- Chain. C. A. Prindle. No. 1,135,843; Apr. 13; Gaz. vol. 213; p. 667.
- Chain. J. C. Wacha. No. 1,153,362; Sept. 14; Gaz. vol. 218; p. 392.
- Chain, Adjustable neck-. E. J. Qvarnstrom. No. 1,124,518; Jan. 12; Gaz. vol. 210; p. 504.
- Chain and flight and bucket connection. W. P. Coldren. No. 1,133,539; Mar. 30; Gaz. vol. 212; p. 1466.
- Chain, Buggy-pole stay-. L. J. Mattingly. No. 1,126,545; Jan. 26; Gaz. vol. 210; p. 1299.
- Chain-clamp. C. F. Smith and J. Robertson. No. 1,145,812; July 6; Gaz. vol. 216; p. 292.
- Chain connector, Bead-. O. H. Allen. No. 1,157,917; Oct. 26; Gaz. vol. 219; p. 1024.
- Chain connector, Neck-. W. R. Naylor. No. 1,141,575; June 1; Gaz. vol. 215; p. 175.
- Chain, Conveyer-. W. W. Connor. No. 1,135,158; Apr. 13; Gaz. vol. 213; p. 428.
- Chain, Detachable-link. F. Hamachek. No. 1,144,411; June 29; Gaz. vol. 215; p. 1292.
- Chain, Drive-. W. J. Belcher. No. 1,145,827; July 6; Gaz. vol. 216; p. 299.
- Chain, Drive-. H. E. Hayward. No. 1,126,462; Jan. 26; Gaz. vol. 210; p. 1267.
- Chain, Drive-. H. Hess. No. 1,151,587; Aug. 31; Gaz. vol. 217; p. 1358.
- Chain, Drive-. F. L. Morse. No. 1,126,254; Jan. 26; Gaz. vol. 210; p. 1194.
- Chain, Drive-. C. D. Seeberger. No. 1,127,684; Feb. 9; Gaz. vol. 211; p. 394.
- Chain-drive-lubricating means. H. S. Pierce. No. 1,161,724; Nov. 23; Gaz. vol. 220; p. 1297.
- Chain, Driving-. C. G. Renold. No. 1,161,821; Nov. 23; Gaz. vol. 220; p. 1331.
- Chain, Driving-. H. Renold. No. 1,134,010; Mar. 30; Gaz. vol. 212; p. 1628.
- Chain fastener, Log-. W. Forest and R. E. Hunt. No. 1,123,509; Jan. 5; Gaz. vol. 210; p. 107.
- Chain for transmitting power, Driving-. C. H. Douglas. No. 1,141,869; June 1; Gaz. vol. 215; p. 272.
- Chain-hook. A. S. Klock. No. 1,130,613; Mar. 2; Gaz. vol. 212; p. 271.
- Chain, Jewelry-. D. J. Pearce. No. 1,138,405; May 4; Gaz. vol. 214; p. 242.
- Chain-link. A. S. Bixby. No. 1,152,476; Sept. 7; Gaz. vol. 218; p. 34.
- Chain-link. A. S. Bixby. No. 1,152,477; Sept. 7; Gaz. vol. 218; p. 34.
- Chain-link. J. M. Dodge. No. 1,130,580; Mar. 2; Gaz. vol. 212; p. 259.
- Chain-link. J. M. Dodge. No. 1,130,582; Mar. 2; Gaz. vol. 212; p. 260.
- Chain-link. K. Dodge. No. 1,130,583; Mar. 2; Gaz. vol. 212; p. 260.
- Chain-link. H. E. Hayward. No. 1,126,461; Jan. 26; Gaz. vol. 210; p. 1267.
- Chain-link and making and assembling same. H. Osswald. No. 1,157,175; Oct. 19; Gaz. vol. 219; p. 701.
- Chain-link connector. W. H. McLaughlin. No. 1,166,068; Dec. 28; Gaz. vol. 221; p. 1288.
- Chain link, Reversible drive-. G. A. Jones. No. 1,165,263; Dec. 21; Gaz. vol. 221; p. 970.
- Chain-link-upsetting device. F. W. Schandoney. No. 1,155,513; Oct. 5; Gaz. vol. 219; p. 67.
- Chain-links, Making. J. M. Dodge. No. 1,125,275; Jan. 19; Gaz. vol. 210; p. 811.
- Chain-links, Making. J. M. Dodge. No. 1,139,019; May 11; Gaz. vol. 214; p. 456.
- Chain-mall fabric, Machine for making. N. Chargueraud. No. 1,163,067; Dec. 7; Gaz. vol. 221; p. 116.
- Chain mesh, Making. W. H. Eynon. No. 1,143,262; June 15; Gaz. vol. 215; p. 840.
- Chain, Metallic link. W. O. Stark. No. 1,126,904; Feb. 2; Gaz. vol. 211; p. 84.
- Chain, Mining-machine. G. B. Norris and C. C. Marshall. No. 1,159,861; Nov. 9; Gaz. vol. 220; p. 544.
- Chain, Multiplate drive-. F. L. Morse. No. 1,138,236; May 4; Gaz. vol. 214; p. 179.
- Chain, Multiplate power-. F. L. Morse. No. 1,138,237; May 4; Gaz. vol. 214; p. 179.
- Chain of the folded-metal-link type. E. H. Kerns. No. 1,126,228; Jan. 26; Gaz. vol. 210; p. 1185.
- Chain-pulling jack. P. Goodrow. No. 1,128,772; Feb. 16; Gaz. vol. 211; p. 824.
- Chain rack, Pattern-. L. H. Landry. No. 1,158,244; Oct. 26; Gaz. vol. 219; p. 1138.
- Chain-repairing implement. J. N. Macdonald. (Reissue.) No. 13,957; Aug. 3; Gaz. vol. 217; p. 241.
- Chain-safety. S. B. Taft and L. H. Landry. No. 1,148,937; Aug. 3; Gaz. vol. 217; p. 160.
- Chain shot. J. Wodiska. No. 1,165,053; Dec. 21; Gaz. vol. 221; p. 896.
- Chain, Sprocket-. E. S. Leaycraft. No. 1,138,766; May 11; Gaz. vol. 214; p. 404.
- Chain-stretcher. J. Shoos. No. 1,155,520; Oct. 5; Gaz. vol. 219; p. 69.
- Chain-tightener attachment. A. J. Steffensen. No. 1,132,496; Mar. 16; Gaz. vol. 212; p. 1004.
- Chain-tightening device. E. J. Benson. No. 1,160,823; Nov. 16; Gaz. vol. 220; p. 936.
- Chain-tool. T. C. Luce. No. 1,141,877; June 1; Gaz. vol. 215; p. 275.
- Chain-tool. E. P. McGuire. No. 1,133,870; Mar. 30; Gaz. vol. 212; p. 1585.
- Chain, Traction-. A. Huffman. No. 1,165,178; Dec. 21; Gaz. vol. 221; p. 941.
- Chain, Tractor-. C. L. Best. No. 1,159,163; Nov. 2; Gaz. vol. 220; p. 261.
- Chains and bracelets, Interchangeable links for. H. Wolcott. No. 1,159,311; Nov. 2; Gaz. vol. 220; p. 314.

Alphabetical list of inventions—Continued.

- Chains and ring-platings of precious metal, Making hollow soldered cable and curb. F. Maisenbacher. No. 1,145,429; July 6; Gaz. vol. 216; p. 158.
- Chains, Ball-and-socket attachment for. H. Scherer. No. 1,153,451; Sept. 14; Gaz. vol. 218; p. 424.
- Chains, Machine for making bead. W. W. Bradley. No. 1,130,253; Mar. 2; Gaz. vol. 212; p. 143.
- Chains, Machine for making welded. M. B. Ryan. No. 1,123,931; Jan. 5; Gaz. vol. 210; p. 249.
- Chains, Machine for manufacturing welded wire. M. B. Ryan. No. 1,123,599; Jan. 5; Gaz. vol. 210; p. 137.
- Chains, Manufacturing plate-links for drive. F. L. Morse. No. 1,127,072; Feb. 2; Gaz. vol. 211; p. 144.
- Chair: See—
- | | |
|-------------------------|-------------------------|
| Adjustable chair. | Nursery-chair. |
| Arm-chair. | Rail-chair. |
| Baby-chair. | Rail-joint chair. |
| Barber's chair. | Railway-chair. |
| Boat-chair. | Railway-joint chair. |
| Collapsible chair. | Reclining-chair. |
| Convertible chair. | Revolving chair. |
| Dental chair. | Rocking-chair. |
| Dresser-chair. | Rolling-chair. |
| Easy-chair. | Sand or lawn chair. |
| Electric chair. | Study-chair. |
| Folding chair. | Theater-chair. |
| Hammock and like chair. | Theater and like chair. |
| High chair. | Wheel-chair. |
| Invalid-chair. | Window-chair. |
| Morris chair. | |
- Chair. A. J. Altheide. No. 1,129,620; Feb. 23; Gaz. vol. 211; p. 1161.
- Chair. J. W. R. Andrews. No. 1,143,566; June 15; Gaz. vol. 215; p. 945.
- Chair. H. Bender. No. 1,159,158; Nov. 2; Gaz. vol. 220; p. 259.
- Chair. M. A. Brewer. No. 1,136,308; Apr. 20; Gaz. vol. 213; p. 870.
- Chair. H. B. Davis. No. 1,127,413; Feb. 9; Gaz. vol. 211; p. 301.
- Chair. S. M. Eisner. No. 1,165,654; Dec. 28; Gaz. vol. 221; p. 1145.
- Chair. P. L. Goodman and J. Peters. No. 1,131,365; Mar. 9; Gaz. vol. 212; p. 562.
- Chair. J. D. Heater. No. 1,150,189; Aug. 17; Gaz. vol. 217; p. 775.
- Chair. J. R. Hinman. No. 1,164,520; Dec. 14; Gaz. vol. 221; p. 671.
- Chair. G. Hunzinger. No. 1,154,021; Sept. 21; Gaz. vol. 218; p. 658.
- Chair. C. A. Johnson. No. 1,139,183; May 11; Gaz. vol. 214; p. 554.
- Chair. E. F. McCarthy. No. 1,150,783; Aug. 17; Gaz. vol. 217; p. 979.
- Chair. W. F. McDowell. No. 1,125,359; Jan. 19; Gaz. vol. 210; p. 841.
- Chair. E. M. Mosher. No. 1,147,965; July 27; Gaz. vol. 216; p. 1113.
- Chair. C. F. Roth. No. 1,130,021; Mar. 2; Gaz. vol. 212; p. 63.
- Chair. J. A. Sherry. No. 1,149,545; Aug. 10; Gaz. vol. 217; p. 479.
- Chair. H. H. Turner. No. 1,156,725; Oct. 12; Gaz. vol. 219; p. 513.
- Chair. J. F. Wilmot. No. 1,149,421; Aug. 10; Gaz. vol. 217; p. 437.
- Chair and adjustable ironing-board, Combination. J. J. Foss and J. D. Mayberry. No. 1,124,218; Jan. 5; Gaz. vol. 210; p. 349.
- Chair and cart, Combined baby. L. Zumino. No. 1,149,972; Aug. 10; Gaz. vol. 217; p. 636.
- Chair and couch, Combination Morris. D. Nasca. No. 1,144,859; June 29; Gaz. vol. 215; p. 1446.
- Chair and folding table-top, Combined. J. S. Alexander. No. 1,145,455; July 6; Gaz. vol. 216; p. 169.
- Chair and step, Convertible. E. J. Jones. No. 1,154,403; Sept. 21; Gaz. vol. 218; p. 789.
- Chair attachment. O. Hanson. No. 1,156,776; Oct. 12; Gaz. vol. 219; p. 530.
- Chair attachment, Barber's. T. J. Kolocotronis. No. 1,137,764; May 4; Gaz. vol. 214; p. 15.
- Chair attachment, Hair-dresser's. J. and G. Rees. No. 1,149,541; Aug. 10; Gaz. vol. 217; p. 578.
- Chair attachment, Rocking. F. Thedsen. No. 1,163,486; Dec. 7; Gaz. vol. 221; p. 262.
- Chair attachment, Rocking. H. M. Ziegler and E. L. Wirtz. No. 1,138,270; May 4; Gaz. vol. 214; p. 191.
- Chair-back, Barber's. G. C. Lutz. No. 1,157,992; Oct. 26; Gaz. vol. 219; p. 1050.
- Chair-base. F. Ritter. No. 1,136,617; Apr. 20; Gaz. vol. 213; p. 980.
- Chair fan attachment, Rocking. W. L. Kline. No. 1,139,299; May 11; Gaz. vol. 214; p. 591.
- Chair-lock. C. S. Cilley. No. 1,155,043; Sept. 28; Gaz. vol. 218; p. 1034.
- Chair-seat. S. Langford. No. 1,135,197; Apr. 13; Gaz. vol. 213; p. 440.
- Chair-seat. J. H. Wettengel, Jr. No. 1,147,287; July 20; Gaz. vol. 216; p. 848.
- Chair-seat-fastening device. J. W. Henry. No. 1,128,213; Jan. 26; Gaz. vol. 210; p. 1179.
- Chair-seat-scooping machine. C. J. Kummer. No. 1,151,276; Aug. 24; Gaz. vol. 217; p. 1207.
- Chair-seat-securing device. A. J. Baum. No. 1,162,281; Nov. 30; Gaz. vol. 220; p. 1540.
- Chair-tip. W. E. Hatheway. No. 1,144,962; June 29; Gaz. vol. 215; p. 1479.
- Chairs and like furniture, Apparatus for the manufacture of seats and backs for. E. E. Peck. No. 1,140,846; May 25; Gaz. vol. 214; p. 1205.
- Chairs, Extensible foot-rest for. C. A. Lee. No. 1,156,156; Oct. 12; Gaz. vol. 219; p. 315.
- Chairs, Hat-holder for. S. Henidson. No. 1,147,505; July 20; Gaz. vol. 216; p. 926.
- Chalk-holder. L. L. Pritchard. No. 1,142,458; June 8; Gaz. vol. 215; p. 521.
- Chalk-line reel. I. C. Richards. No. 1,152,221; Aug. 31; Gaz. vol. 217; p. 1577.
- Change-handler. P. Bochenek. No. 1,141,759; June 1; Gaz. vol. 215; p. 237.
- Change-maker. F. E. Farr. No. 1,149,744; Aug. 10; Gaz. vol. 217; p. 553.
- Change-maker. A. Lovenberg. No. 1,144,606; June 29; Gaz. vol. 215; p. 1356.
- Change-maker, Automatic. G. W. Hollingsworth. No. 1,140,458; May 25; Gaz. vol. 214; p. 1071.
- Change-making and coin-dispensing machine. J. A. Plopper. No. 1,141,410; June 1; Gaz. vol. 215; p. 116.
- Change-making machine. H. Abramovitz. No. 1,166,302; Dec. 28; Gaz. vol. 221; p. 1376.
- Change-making machine. L. J. Desenberg. No. 1,135,165; Apr. 13; Gaz. vol. 213; p. 429.
- Change-making machine. G. Hofmann. No. 1,136,801; Apr. 20; Gaz. vol. 213; p. 1045.
- Change-making machine. J. B. Lewis. No. 1,155,359; Oct. 5; Gaz. vol. 219; p. 12.
- Channeling-machine. A. Ball and H. H. Mercer. No. 1,130,660; Mar. 2; Gaz. vol. 212; p. 286.
- Channeling-tool. C. M. Thompson. No. 1,166,277; Dec. 28; Gaz. vol. 221; p. 1368.
- Chaplet. E. R. Swanson. No. 1,160,785; Nov. 16; Gaz. vol. 220; p. 922.
- Character-bearing surfaces, Means for operating upon. G. R. Cornwall. No. 1,130,798; Mar. 9; Gaz. vol. 212; p. 367.
- Character-forming machine. T. M. Lilleberg. No. 1,124,150; Jan. 5; Gaz. vol. 210; p. 323.
- Charcoal, Apparatus for making wood-. L. Félizat. No. 1,137,852; May 4; Gaz. vol. 214; p. 45.
- Charcoal, Making animal. R. Adler. No. 1,151,553; Aug. 31; Gaz. vol. 217; p. 1347.
- Charge-forming device. C. H. Corneliuss. No. 1,152,298; Aug. 31; Gaz. vol. 217; p. 1603.
- Charging and billing, Means facilitating. H. P. Wellman. No. 1,159,449; Nov. 9; Gaz. vol. 220; p. 395.
- Chart, Color-. L. M. Dunn. No. 1,125,073; Jan. 19; Gaz. vol. 210; p. 739.
- Chart, Color-. J. Van Heest. No. 1,144,266; June 22; Gaz. vol. 215; p. 1214.
- Chart, Combination-. A. A. and W. Nelson. No. 1,163,603; Dec. 7; Gaz. vol. 221; p. 304.
- Chart, Cutting-. S. G. Weiler. No. 1,163,874; Dec. 14; Gaz. vol. 221; p. 444.
- Chart, Designing or calculating. C. W. Schubert. No. 1,141,837; June 1; Gaz. vol. 215; p. 282.
- Chart, Educational. C. E. Birch. No. 1,139,329; May 11; Gaz. vol. 214; p. 601.
- Chart for garment-patterns. A. D. Smith. No. 1,136,055; Apr. 20; Gaz. vol. 213; p. 780.
- Chart for teaching number tests. J. H. Fassett. No. 1,151,171; Aug. 24; Gaz. vol. 217; p. 1171.
- Chart for the spinal column. O. Smith. No. 1,143,652; June 22; Gaz. vol. 215; p. 999.
- Chart-holder. A. L. Womack. No. 1,161,367; Nov. 23; Gaz. vol. 220; p. 1175.
- Chart, Penmanship-. J. H. Reed. No. 1,145,512; July 6; Gaz. vol. 216; p. 188.
- Chase. A. A. Henzi. No. 1,162,861; Dec. 7; Gaz. vol. 221; p. 45.
- Chase-lock bar. H. E. Fossenkemper. No. 1,152,162; Aug. 31; Gaz. vol. 217; p. 1557.
- Chase-locking device, Automatic. C. S. Hayes. No. 1,162,920; Dec. 7; Gaz. vol. 221; p. 64.
- Chassis. C. H. Butler. No. 1,123,481; Jan. 5; Gaz. vol. 210; p. 97.
- Chat-separator for concentrating-jigs. A. P. Standefer. No. 1,162,112; Nov. 30; Gaz. vol. 220; p. 1482.
- Check and check-book protector. E. F. Talley. No. 1,159,617; Nov. 9; Gaz. vol. 220; p. 455.
- Check, Bank-. H. E. Kinnear. No. 1,164,198; Dec. 14; Gaz. vol. 221; p. 556.
- Check-canceling machine or the like. J. Schylander and P. Erickson. No. 1,162,658; Nov. 30; Gaz. vol. 220; p. 1664.
- Check-controlled apparatus. A. D. Grover and E. E. Barber. No. 1,151,539; Aug. 24; Gaz. vol. 217; p. 1295.
- Check-controlled apparatus. W. L. Hamilton. No. 1,138,589; May 4; Gaz. vol. 214; p. 302.
- Check-controlled apparatus. H. J. Keating. No. 1,137,631; Apr. 27; Gaz. vol. 213; p. 1378.
- Check-controlled mechanism. L. J. Le Pontois. No. 1,162,701; Nov. 30; Gaz. vol. 220; p. 1679.

- Check-dispenser. J. T. Walker. No. 1,126,139; Jan. 26; Gaz. vol. 210; p. 1151.
- Check-displayer. H. M. Godbersen and T. H. Montgomery. No. 1,166,348; Dec. 28; Gaz. vol. 221; p. 1392.
- Check-holder. F. W. Baker. No. 1,131,591; Mar. 9; Gaz. vol. 212; p. 640.
- Check-holder. D. C. Cole. No. 1,127,188; Feb. 2; Gaz. vol. 211; p. 185.
- Check holder, Sales-. L. F. Hageman, Jr. No. 1,157,217; Oct. 19; Gaz. vol. 219; p. 716.
- Check holder, Sales-. G. W. Prouty. No. 1,130,629; Mar. 2; Gaz. vol. 212; p. 275.
- Check-identifying machine. E. H. Hebern. No. 1,126,463; Jan. 26; Gaz. vol. 210; p. 1268.
- Check-indorsing machine. W. E. and M. W. Marshall. No. 1,128,801; Feb. 16; Gaz. vol. 211; p. 835.
- Check-marker. L. Hand. No. 1,165,593; Dec. 28; Gaz. vol. 221; p. 1123.
- Check or draft, Bank. W. H. Dewees. No. 1,137,707; Apr. 27; Gaz. vol. 213; p. 1401.
- Check perforator, Scafe-. C. C. Carey. No. 1,129,639; Feb. 23; Gaz. vol. 211; p. 1166.
- Check-protecting device. E. Ocumpaugh. No. 1,160,645; Nov. 16; Gaz. vol. 220; p. 873.
- Check-protector. C. S. Carrier. No. 1,133,459; Mar. 30; Gaz. vol. 212; p. 1436.
- Check-protector. W. D. Doremus. No. 1,131,602; Mar. 9; Gaz. vol. 212; p. 644.
- Check-protector. W. D. Doremus. No. 1,148,831; Aug. 3; Gaz. vol. 217; p. 125.
- Check-protector. I. Engstrom. No. 1,156,000; Oct. 5; Gaz. vol. 219; p. 233.
- Check-protector. C. H. Epple. No. 1,163,988; Dec. 14; Gaz. vol. 221; p. 484.
- Check-protector. J. A. Huizenga. No. 1,146,571; July 13; Gaz. vol. 216; p. 581.
- Check-protector. L. W. Jaderstrom. No. 1,154,248; Sept. 21; Gaz. vol. 218; p. 735.
- Check-protector. E. Ocumpaugh. No. 1,161,514; Nov. 23; Gaz. vol. 220; p. 1227.
- Check-protector. H. R. Sinclair. No. 1,143,556; June 15; Gaz. vol. 215; p. 941.
- Check-protector. H. R. Sinclair. No. 1,143,557; June 15; Gaz. vol. 215; p. 941.
- Check-protector. S. T. Thorson. No. 1,153,832; Sept. 14; Gaz. vol. 218; p. 558.
- Check-protector, Paper-weight. V. M. Schmitz. No. 1,163,779; Dec. 14; Gaz. vol. 221; p. 411.
- Check-registering device. D. W. Thornton. No. 1,132,529; Mar. 16; Gaz. vol. 212; p. 1016.
- Check-up hook. W. J. Fricke. No. 1,164,491; Dec. 14; Gaz. vol. 221; p. 660.
- Check, Waiter's controlling-. A. N. E. Boos. No. 1,130,691; Mar. 2; Gaz. vol. 212; p. 297.
- Checkrein device. H. G. Weatherill. No. 1,128,642; Feb. 16; Gaz. vol. 211; p. 780.
- Cheese. L. E. Carpenter. No. 1,163,066; Dec. 7; Gaz. vol. 221; p. 115.
- Cheese-box. G. S. Gaylord. No. 1,148,486; July 27; Gaz. vol. 216; p. 1298.
- Cheese-cover. C. M. Hank. No. 1,140,153; May 18; Gaz. vol. 214; p. 930.
- Cheese-cutter. F. P. Dunn. No. 1,139,405; May 11; Gaz. vol. 214; p. 629.
- Cheese-cutter. A. L. Reed and T. S. Gettle. No. 1,142,622; June 8; Gaz. vol. 215; p. 575.
- Cheese-cutter. E. F. Tripp. No. 1,162,713; Nov. 30; Gaz. vol. 220; p. 1684.
- Cheese-cutter. F. M. Wilson. No. 1,160,026; Nov. 9; Gaz. vol. 220; p. 600.
- Cheese-cutter, Computing. J. H. Osborne. No. 1,131,949; Mar. 16; Gaz. vol. 212; p. 804.
- Cheese-follower. L. H. Pieper. No. 1,158,276; Oct. 26; Gaz. vol. 219; p. 1150.
- Cheese-hoop. W. R. and J. R. Cain. No. 1,133,261; Mar. 30; Gaz. vol. 212; p. 1365.
- Cheese, Making. J. W. Spencer and F. P. Schwingel. No. 1,159,808; Nov. 9; Gaz. vol. 220; p. 524.
- Chemical compounds, Apparatus for the manufacture of. C. J. Brockbank. No. 1,157,293; Oct. 19; Gaz. vol. 219; p. 744.
- Cherry-pitter. W. Muri. No. 1,141,355; June 1; Gaz. vol. 215; p. 95.
- Cherry-pitting machine. J. H. Smith. No. 1,155,449; Oct. 5; Gaz. vol. 219; p. 43.
- Chest. See—
Cedar chest. Tool-chest.
- Chicken-separator, Automatic. I. J. Ploughe. No. 1,147,641; July 20; Gaz. vol. 216; p. 974.
- Chicle substitute and making same. G. B. and W. H. Bradshaw. No. 1,134,073; Mar. 30; Gaz. vol. 212; p. 1650.
- Child-carrier. W. J. Sprong. No. 1,162,662; Nov. 30; Gaz. vol. 220; p. 1666.
- Child's seat. W. H. Gibson. No. 1,163,628; Dec. 7; Gaz. vol. 221; p. 313.
- Child's seat. C. H. Wolfert. No. 1,140,730; May 25; Gaz. vol. 214; p. 1164.
- Chilled rolls with steel centers, Making. J. T. Osler. No. 1,132,611; Mar. 23; Gaz. vol. 212; p. 1094.
- Chimney. M. Carney. No. 1,138,726; May 11; Gaz. vol. 214; p. 390.
- Chimney-cap. J. W. Meixell. No. 1,148,702; Aug. 3; Gaz. vol. 217; p. 79.
- Chimney-cap and storm-shield. C. W. Sillin. No. 1,133,324; Mar. 30; Gaz. vol. 212; p. 1387.
- Chimney-cowl. H. Gutschmidt. No. 1,166,362; Dec. 28; Gaz. vol. 221; p. 1397.
- Chimney-cowl. C. H. Hogan. No. 1,159,672; Nov. 9; Gaz. vol. 220; p. 473.
- Chimney draft device. E. Prat. No. 1,151,611; Aug. 31; Gaz. vol. 217; p. 1367.
- Chimney-hood. G. M. Murray. No. 1,154,044; Sept. 21; Gaz. vol. 218; p. 666.
- Chimney-lining apparatus. W. Coe. No. 1,147,374; July 20; Gaz. vol. 216; p. 879.
- Chimney. Mica. F. R. Huse. No. 1,131,931; Mar. 16; Gaz. vol. 212; p. 797.
- Chimney-motor. E. R. Lewis and L. Salzinger. No. 1,140,990; May 25; Gaz. vol. 214; p. 1258.
- Chimney structure, Brick. F. Dochnal. No. 1,156,468; Oct. 12; Gaz. vol. 219; p. 425.
- Chimneys, Sprinkler device for. F. Kramer. No. 1,161,319; Nov. 23; Gaz. vol. 220; p. 1158.
- Chimneys, Water and fire shield for. W. J. Carrier. No. 1,158,117; Oct. 26; Gaz. vol. 219; p. 1095.
- Chin-support for dead persons. J. H. Gilbaugh. No. 1,139,670; May 18; Gaz. vol. 214; p. 760.
- Chirographic reproducing-machine. F. Schorno. No. 1,159,280; Nov. 2; Gaz. vol. 220; p. 302.
- Chiropractic table. F. M. Naysmith. No. 1,145,503; July 6; Gaz. vol. 216; p. 185.
- Chlorates of alkalis and alkaline earths, Producing. W. Laib. No. 1,148,586; June 15; Gaz. vol. 215; p. 952.
- Chlorides of the alkali metals for the obtaining of useful products therefrom. Treatment of. J. A. Kendall. No. 1,124,143; Jan. 5; Gaz. vol. 210; p. 321.
- Chlorinating. M. Buchner. No. 1,129,165; Feb. 23; Gaz. vol. 211; p. 1000.
- Chlorination apparatus. F. Sparre and W. E. Masland. No. 1,148,259; July 27; Gaz. vol. 216; p. 1218.
- Chock-block. F. T. Roberts and F. W. Rapson. No. 1,159,997; Nov. 9; Gaz. vol. 220; p. 591.
- Chock-block-making machine. A. D. Catlin. No. 1,133,931; Mar. 30; Gaz. vol. 212; p. 1603.
- Chock, Vehicle-. A. Casper. No. 1,155,549; Oct. 5; Gaz. vol. 219; p. 79.
- Chock, Vehicle-. H. P. Cope. No. 1,153,607; Sept. 14; Gaz. vol. 218; p. 480.
- Chocolate-enrobing machine. W. Fritz. No. 1,132,253; Mar. 16; Gaz. vol. 212; p. 916.
- Chocolate-heater. F. P. Ziegler. No. 1,129,266; Feb. 23; Gaz. vol. 211; p. 1035.
- Chocolate in bulk, Manufacture of. H. C. Gallagher. No. 1,152,166; Aug. 31; Gaz. vol. 217; p. 1559.
- Chocolate-molding apparatus. A. A. Schneider. No. 1,155,839; Oct. 5; Gaz. vol. 219; p. 180.
- Chocolate-molding machines, Feeding device for. C. Clemens. No. 1,152,789; Sept. 7; Gaz. vol. 218; p. 149.
- Chocolate-tempering machine. A. L. Bausman. No. 1,141,683; June 1; Gaz. vol. 215; p. 212.
- Choker-hook. H. Hardisty. No. 1,141,333; June 1; Gaz. vol. 215; p. 87.
- Chopper. See—
Cotton-chopper. Food or meat chopper.
Food-chopper.
- Chopper. J. Peoples, Sr., and W. T. Clark. No. 1,160,955; Nov. 16; Gaz. vol. 220; p. 983.
- Chopping-machine. W. G. Doty. No. 1,145,755; July 6; Gaz. vol. 216; p. 273.
- Christmas-tree garden. J. A. Wiedersheim. No. 1,135,642; Apr. 13; Gaz. vol. 213; p. 596.
- Christmas-tree holder. C. A. Diederichs. No. 1,160,698; Nov. 16; Gaz. vol. 220; p. 894.
- Christmas tree, Mechanical. W. F. Krause. No. 1,163,093; Dec. 7; Gaz. vol. 221; p. 125.
- Christmas-tree stand. A. P. Danner. No. 1,127,866; Feb. 9; Gaz. vol. 211; p. 463.
- Christmas-tree stand or holder. A. Miller and H. Rumpel. No. 1,124,780; Jan. 12; Gaz. vol. 210; p. 598.
- Christmas-tree-supporting stand. J. Wagner. No. 1,151,745; Aug. 31; Gaz. vol. 217; p. 1412.
- Chromium compound. W. Beckers and I. Dreyfus. No. 1,162,210; Nov. 30; Gaz. vol. 220; p. 1514.
- Chromium oxid. Manufacture of. A. E. Gessler. No. 1,158,379; Oct. 26; Gaz. vol. 219; p. 1186.
- Chromium salts, Producing. J. H. Boner. No. 1,157,668; Oct. 26; Gaz. vol. 219; p. 937.
- Chronometer-movement. F. H. Corthell. No. 1,164,703; Dec. 21; Gaz. vol. 221; p. 774.
- Chuck. O. W. Berg. No. 1,141,305; June 1; Gaz. vol. 215; p. 78.
- Chuck. J. L. Bernard. No. 1,154,283; Sept. 21; Gaz. vol. 218; p. 748.
- Chuck. C. Bodmer. No. 1,132,550; Mar. 23; Gaz. vol. 212; p. 1070.
- Chuck. H. Boring. No. 1,140,567; May 25; Gaz. vol. 214; p. 1110.
- Chuck. H. A. Borresen. No. 1,153,995; Sept. 21; Gaz. vol. 218; p. 648.
- Chuck. S. M. Coffman. No. 1,141,613; June 1; Gaz. vol. 215; p. 187.
- Chuck. D. W. Edwards. No. 1,133,795; Mar. 30; Gaz. vol. 212; p. 1557.

Alphabetical list of inventions—Continued.

- Chuck, T. J. Fegley and G. O. Leopold. No. 1,138,465; May 4; Gaz. vol. 214; p. 262.
- Chuck, H. Hess. No. 1,131,696; Mar. 16; Gaz. vol. 212; p. 712.
- Chuck, J. M. Housel. No. 1,129,491; Feb. 23; Gaz. vol. 211; p. 1115.
- Chuck, A. I. Jacobs. No. 1,123,541; Jan. 5; Gaz. vol. 210; p. 118.
- Chuck, J. Kleinertz. No. 1,156,295; Oct. 12; Gaz. vol. 219; p. 360.
- Chuck, A. P. Morrow. No. 1,159,247; Nov. 2; Gaz. vol. 220; p. 292.
- Chuck, A. P. Morrow. No. 1,159,248; Nov. 2; Gaz. vol. 220; p. 292.
- Chuck, W. C. Osterholm. No. 1,135,045; Apr. 13; Gaz. vol. 213; p. 389.
- Chuck, H. A. Schultz. No. 1,130,768; Mar. 9; Gaz. vol. 212; p. 358.
- Chuck, H. E. Sloan. No. 1,159,875; Nov. 9; Gaz. vol. 20; p. 548.
- Chuck, E. Uhlig and K. Bauch. No. 1,154,898; Sept. 28; Gaz. vol. 218; p. 985.
- Chuck, V. J. Wahlstrom. No. 1,162,197; Nov. 30; Gaz. vol. 220; p. 1511.
- Chuck, G. A. Wood. No. 1,159,146; Nov. 2; Gaz. vol. 220; p. 254.
- Chuck-actuating device, Fluid-pressure. W. L. Miller. No. 1,146,193; July 13; Gaz. vol. 216; p. 446.
- Chuck-adjusting device, Tool-. M. Steudner. No. 1,157,817; Oct. 26; Gaz. vol. 219; p. 988.
- Chuck attachment, Drill-. J. E. Erickson. No. 1,131,918; Mar. 16; Gaz. vol. 212; p. 792.
- Chuck, Band-. M. D. Heyman. No. 1,158,216; Oct. 26; Gaz. vol. 219; p. 1128.
- Chuck, Drill-. F. E. Bocorselski. No. 1,131,990; Mar. 16; Gaz. vol. 212; p. 819.
- Chuck, Drill-. J. Carr. No. 1,125,649; Jan. 19; Gaz. vol. 210; p. 942.
- Chuck, Drill-. J. Carr. No. 1,125,650; Jan. 19; Gaz. vol. 210; p. 942.
- Chuck, Drill-. F. Cobey. No. 1,160,138; Nov. 16; Gaz. vol. 220; p. 693.
- Chuck, Drill-. W. Coulson. No. 1,153,033; Sept. 7; Gaz. vol. 218; p. 238.
- Chuck, Drill-. W. Farquharson. No. 1,154,299; Sept. 21; Gaz. vol. 218; p. 752.
- Chuck, Drill-. A. P. Morrow. No. 1,150,142; Aug. 17; Gaz. vol. 217; p. 757.
- Chuck, Drill-. H. E. Van Ness. No. 1,159,344; Nov. 2; Gaz. vol. 220; p. 325.
- Chuck for holding work-pieces. G. Weber. No. 1,141,594; June 1; Gaz. vol. 215; p. 181.
- Chuck-holder. A. F. Robbins. No. 1,161,888; Nov. 30; Gaz. vol. 220; p. 1401.
- Chuck-jaw, Intermediate. A. R. McKinney. No. 1,161,490; Nov. 23; Gaz. vol. 220; p. 1218.
- Chuck, Magnetic. W. S. Griffith. No. 1,146,867; July 20; Gaz. vol. 216; p. 701.
- Chuck, Magnetic. H. K. Spencer. No. 1,125,198; Jan. 19; Gaz. vol. 210; p. 782.
- Chuck, Rock-drill. M. T. Taylor and J. F. Gardiner. No. 1,132,636; Mar. 23; Gaz. vol. 212; p. 1103.
- Chuck, Self-centering. E. Rivett. No. 1,135,397; Apr. 13; Gaz. vol. 213; p. 505.
- Chuck, Spring-. L. M. Waite. No. 1,125,780; Jan. 19; Gaz. vol. 210; p. 991.
- Chuck, Stay-bolt. R. F. Whalen and H. D. Palmer. No. 1,127,836; Feb. 9; Gaz. vol. 211; p. 452.
- Chuck, Tap-leading. D. C. Klausmeyer. No. 1,140,905; May 25; Gaz. vol. 214; p. 1228.
- Chuck, Universal. D. Heggie. No. 1,152,175; Aug. 31; Gaz. vol. 217; p. 1561.
- Chucking mechanism for machine-tools. F. W. Garrett. No. 1,124,008; Jan. 5; Gaz. vol. 210; p. 275.
- Churn, S. Bailes. No. 1,133,909; Mar. 30; Gaz. vol. 212; p. 1597.
- Churn, C. B. Crofford. No. 1,131,336; Mar. 9; Gaz. vol. 212; p. 552.
- Churn, C. Ericson. No. 1,129,798; Feb. 23; Gaz. vol. 211; p. 1218.
- Churn, J. Herman. No. 1,145,483; July 6; Gaz. vol. 216; p. 179.
- Churn, M. J. H. Hughes. No. 1,144,598; June 29; Gaz. vol. 215; p. 1354.
- Churn, T. J. Jarnigan. No. 1,129,493; Feb. 23; Gaz. vol. 211; p. 1116.
- Churn, W. L. Logan. No. 1,128,336; Feb. 16; Gaz. vol. 211; p. 676.
- Churn, J. L. Ouzts. No. 1,163,030; Dec. 7; Gaz. vol. 221; p. 103.
- Churn, J. T. Reese. No. 1,142,459; June 8; Gaz. vol. 215; p. 521.
- Churn, J. G. Smith. No. 1,127,302; Feb. 2; Gaz. vol. 211; p. 223.
- Churn, J. A. Stringer. No. 1,155,766; Oct. 5; Gaz. vol. 219; p. 153.
- Churn-actuating mechanism. E. T. Jones. No. 1,156,146; Oct. 12; Gaz. vol. 219; p. 312.
- Churn and butter-worker, Combined. H. A. Hendrix. No. 1,141,706; June 1; Gaz. vol. 215; p. 219.
- Churn, Chair-operated. A. Szasz. No. 1,153,272; Sept. 14; Gaz. vol. 218; p. 358.
- Churn-driving means. L. A. Disbrow. No. 1,147,006; July 20; Gaz. vol. 216; p. 752.
- Churn-driving means. A. M. Mercer. No. 1,159,520; Nov. 9; Gaz. vol. 220; p. 419.
- Churn-driving mechanism. R. B. Disbrow and C. M. Carlson. No. 1,146,480; July 13; Gaz. vol. 216; p. 550.
- Churn for separating butter from milk and cream. W. L. Chandler. No. 1,132,702; Mar. 23; Gaz. vol. 212; p. 1127.
- Churn-motor-supporting device. G. H. Hayter. No. 1,149,048; Aug. 3; Gaz. vol. 217; p. 199.
- Churn-operating device. O. Palm. No. 1,133,177; Mar. 23; Gaz. vol. 212; p. 1301.
- Churn-operating means. G. S. Beemer. No. 1,135,655; Apr. 13; Gaz. vol. 213; p. 601.
- Churn power mechanism. J. Szentivanyi. No. 1,161,547; Nov. 23; Gaz. vol. 220; p. 1259.
- Churn, Sanitary. M. C. McKenney, W. H. Swan, and F. J. Peacock. No. 1,148,786; Aug. 3; Gaz. vol. 217; p. 109.
- Churns, Intermittent operating means for. J. Szabo and A. Judik. No. 1,152,237; Aug. 31; Gaz. vol. 217; p. 1582.
- Chute. W. L. McCabe. No. 1,157,019; Oct. 19; Gaz. vol. 219; p. 647.
- Chute. J. B. Strauss. No. 1,132,228; Mar. 16; Gaz. vol. 212; p. 906.
- Chute. O. E. West. No. 1,138,431; May 4; Gaz. vol. 214; p. 250.
- Chute and shaft in buildings. J. W. Farley. No. 1,152,309; Aug. 31; Gaz. vol. 217; p. 1607.
- Chute attachment. F. M. Schmidt. No. 1,164,124; Dec. 14; Gaz. vol. 221; p. 532.
- Chute-closure, Automatic. D. C. Boyd. No. 1,147,367; July 20; Gaz. vol. 216; p. 876.
- Chute, Coal-. A. L. Adams. No. 1,133,692; Mar. 30; Gaz. vol. 212; p. 1523.
- Chute, Coal-. D. Bruhn. No. 1,146,127; July 13; Gaz. vol. 216; p. 423.
- Chute, Coal-. J. M. Dodge. No. 1,126,418; Jan. 26; Gaz. vol. 210; p. 1251.
- Chute, Coal-. F. H. Mason and J. Allen. No. 1,155,942; Oct. 5; Gaz. vol. 219; p. 214.
- Chute, Coal-. V. I. Moser. No. 1,124,502; Jan. 12; Gaz. vol. 210; p. 498.
- Chute, Distributing-. O. E. West. No. 1,145,952; July 13; Gaz. vol. 216; p. 361.
- Chute for coal-pockets, Screening-. C. G. Pfeiffer. No. 1,125,709; Jan. 19; Gaz. vol. 210; p. 966.
- Chute for freight-cars. J. L. Ross. No. 1,151,719; Aug. 31; Gaz. vol. 217; p. 1402.
- Chute, Ice-. J. C. Warren. No. 1,153,658; Sept. 14; Gaz. vol. 218; p. 496.
- Chute-loader and hog-holder, Folding stock. R. L. Dillinger. No. 1,139,755; May 18; Gaz. vol. 214; p. 788.
- Chute, Loading-. A. V. Jensen. No. 1,123,882; Jan. 5; Gaz. vol. 210; p. 233.
- Chute, Multiple-coin. C. H. Green. No. 1,152,806; Sept. 7; Gaz. vol. 218; p. 156.
- Chute, Pomace-. W. C. Rose. No. 1,123,385; Jan. 5; Gaz. vol. 210; p. 65.
- Chute, Reversible ice-. J. B. Dowling. No. 1,126,731; Feb. 2; Gaz. vol. 211; p. 22.
- Chute, Silo-. W. A. Cockrum. No. 1,163,508; Dec. 7; Gaz. vol. 221; p. 270.
- Chute, Stock-. J. H. Stuepfert. No. 1,133,588; Mar. 30; Gaz. vol. 212; p. 1483.
- Chutes, Cut-off gate and spout for discharge. F. E. Arndt. No. 1,135,980; Apr. 20; Gaz. vol. 213; p. 755.
- Chutes, Line-gate for concrete-. W. H. Insley. No. 1,125,105; Jan. 19; Gaz. vol. 210; p. 748.
- Chutes, Sack-holder for grain-. C. E. Penrod. No. 1,154,722; Sept. 28; Gaz. vol. 218; p. 926.
- Cigar and making same. W. L. Ligety. No. 1,141,399; June 1; Gaz. vol. 215; p. 113.
- Cigar and tobacco moistening device. A. Zarella. No. 1,147,775; July 27; Gaz. vol. 216; p. 1046.
- Cigar, Applying a corn-shuck wrapper to a. C. J. Rossey. No. 1,145,268; July 6; Gaz. vol. 216; p. 102.
- Cigar-bands, &c., Severing device for. W. C. Goss. No. 1,124,223; Jan. 5; Gaz. vol. 210; p. 351.
- Cigar-box. J. Besser. No. 1,134,990; Apr. 13; Gaz. vol. 213; p. 368.
- Cigar-box opener. P. Hauser. No. 1,149,138; Aug. 3; Gaz. vol. 217; p. 229.
- Cigar-boxes, Card-holder for. I. Reenstierna. No. 1,135,323; Apr. 13; Gaz. vol. 213; p. 483.
- Cigar-bunch and making same. O. Hammerstein. No. 1,142,164; June 8; Gaz. vol. 215; p. 416.
- Cigar-bunch-forming machine. T. E. Fearon. No. 1,133,847; Mar. 30; Gaz. vol. 212; p. 1577.
- Cigar-can. E. B. Bicker. No. 1,164,913; Dec. 21; Gaz. vol. 221; p. 847.
- Cigar-cap, Sanitary. G. De Fermanzo. No. 1,135,504; Apr. 13; Gaz. vol. 213; p. 546.
- Cigar-case. R. Rey. No. 1,125,175; Jan. 19; Gaz. vol. 210; p. 774.
- Cigar, cigarette, and match dispenser. W. Dobrowski. No. 1,144,821; June 29; Gaz. vol. 215; p. 1433.
- Cigar clipper and lighter, Combined. R. E. Zellers. No. 1,158,017; Oct. 26; Gaz. vol. 219; p. 1059.

Alphabetical list of inventions—Continued.

- Cigar crimper or indenter. W. F. Metcalf and S. W. Leidich. No. 1,124,053; Jan. 5; Gaz. vol. 210; p. 290.
- Cigar-cutter. C. Asendorf, Jr. No. 1,154,158; Sept. 21; Gaz. vol. 218; p. 704.
- Cigar-cutter. E. O. Bulman. No. 1,124,288; Jan. 12; Gaz. vol. 210; p. 422.
- Cigar-cutter. A. Emrich. (Reissue.) No. 13,873; Feb. 2; Gaz. vol. 211; p. 250.
- Cigar-cutter. H. Leidel. No. 1,156,158; Oct. 12; Gaz. vol. 219; p. 316.
- Cigar-cutter. P. V. Perez. No. 1,149,942; Aug. 10; Gaz. vol. 217; p. 624.
- Cigar-cutter and match-deliverer, Combined. J. Hordubay. No. 1,136,130; Apr. 20; Gaz. vol. 213; p. 806.
- Cigar-cutter, Hygienic. G. A. Caspers and A. Lieberman. No. 1,124,590; Jan. 12; Gaz. vol. 210; p. 530.
- Cigar-display humidor. H. B. Tourtellot. No. 1,129,921; Mar. 2; Gaz. vol. 212; p. 31.
- Cigar-holder. E. W. McCarroll. No. 1,131,150; Mar. 9; Gaz. vol. 212; p. 488.
- Cigar-holder. J. V. Rowan and A. Zamrsky. No. 1,145,799; July 6; Gaz. vol. 216; p. 288.
- Cigar-holder. T. M. Terwilliger, Jr. No. 1,143,463; June 15; Gaz. vol. 215; p. 910.
- Cigar-holder and ash-receiver. L. Shlepp. No. 1,145,808; July 6; Gaz. vol. 216; p. 291.
- Cigar holder, Lighted. W. F. McManus. No. 1,132,201; Mar. 16; Gaz. vol. 212; p. 895.
- Cigar-lighter. H. W. Clark. No. 1,147,784; July 27; Gaz. vol. 216; p. 1049.
- Cigar-lighter. E. Faint. No. 1,133,544; Mar. 30; Gaz. vol. 212; p. 1467.
- Cigar-lighter and tip-cutter, Combined. H. Diamond. No. 1,147,220; July 20; Gaz. vol. 216; p. 826.
- Cigar-lighter, Electric. M. H. Spielman. No. 1,147,277; July 20; Gaz. vol. 216; p. 845.
- Cigar-lighter, Electric. M. H. Spielman. No. 1,164,767; Dec. 21; Gaz. vol. 221; p. 796.
- Cigar-machine. J. D. Lacroix. No. 1,128,989; Feb. 16; Gaz. vol. 211; p. 903.
- Cigar-machine. O. Tyberg. No. 1,134,246; Apr. 6; Gaz. vol. 213; p. 60.
- Cigar-maker's moistening device. S. Berger. No. 1,127,165; Feb. 2; Gaz. vol. 211; p. 177.
- Cigar-making machine. W. C. Lipe and J. W. Coughtry. No. 1,134,469; Apr. 6; Gaz. vol. 213; p. 141.
- Cigar-making machines, Heading and finishing mechanism for. W. C. Lipe and J. W. Coughtry. No. 1,134,470; Apr. 6; Gaz. vol. 213; p. 141.
- Cigar-moistener. A. I. Lewis. No. 1,148,595; Aug. 3; Gaz. vol. 217; p. 40.
- Cigar-mold press. A. Gordon. No. 1,128,598; Feb. 16; Gaz. vol. 211; p. 765.
- Cigar-package. I. L. Stern. No. 1,151,415; Aug. 24; Gaz. vol. 217; p. 1251.
- Cigar self-lighter. W. C. Birmeley. No. 1,153,419; Sept. 14; Gaz. vol. 218; p. 413.
- Cigar-tip cutter. L. v. Aronson. No. 1,127,576; Feb. 9; Gaz. vol. 211; p. 359.
- Cigar-tip cutter. J. H. Swift. No. 1,136,182; Apr. 20; Gaz. vol. 213; p. 825.
- Cigar-tip-protecting label. H. S. Dotts. No. 1,163,225; Dec. 7; Gaz. vol. 221; p. 172.
- Cigar, Wrapped. M. Wertheimer. No. 1,128,828; Feb. 16; Gaz. vol. 211; p. 846.
- Cigar-wrapping, Counter. D. Strasser. No. 1,133,333; Mar. 30; Gaz. vol. 212; p. 1391.
- Cigar-wrapping machine. W. A. Mooney. No. 1,125,149; Jan. 19; Gaz. vol. 210; p. 764.
- Cigars and other articles, Apparatus for displaying and vending. W. G. J. Collins. No. 1,135,964; Apr. 13; Gaz. vol. 213; p. 709.
- Cigars, Apparatus for curing or artificially aging. G. E. Goldstein. No. 1,137,752; May 4; Gaz. vol. 214; p. 11.
- Cigars, Forming. A. A. Heyman. No. 1,152,022; Aug. 31; Gaz. vol. 217; p. 1509.
- Cigars, Machine for applying bands to. W. C. Briggs. No. 1,138,275; May 4; Gaz. vol. 214; p. 193.
- Cigars, Machine for applying bands to. P. Pierson. No. 1,132,209; Mar. 16; Gaz. vol. 212; p. 898.
- Cigars, Means for applying wrappers to bunches in the manufacture of. J. D. Lacroix. No. 1,128,991; Feb. 16; Gaz. vol. 211; p. 904.
- Cigars or cigarettes, Machine for making tapered or conical. J. H. Chambers. No. 1,124,860; Jan. 12; Gaz. vol. 210; p. 627.
- Cigars or the like, Receptacle for. M. L. Kaufmann. No. 1,130,739; Mar. 9; Gaz. vol. 212; p. 347.
- Cigars, Packing means for. H. G. Slater. No. 1,148,806; Aug. 3; Gaz. vol. 217; p. 116.
- Cigarette and cigarette-sleeve machines, Knife-shifting attachment for. E. C. Mühlbauer. No. 1,148,250; July 27; Gaz. vol. 216; p. 1215.
- Cigarette and match box, Combined. T. H. White. No. 1,156,732; Oct. 12; Gaz. vol. 219; p. 516.
- Cigarette and the like box. B. Cohen. No. 1,164,782; Dec. 21; Gaz. vol. 221; p. 801.
- Cigarette-box. C. W. Hubbard, Jr. No. 1,152,815; Sept. 7; Gaz. vol. 218; p. 160.
- Cigarette-box. N. Jacovatos. No. 1,158,132; Oct. 26; Gaz. vol. 219; p. 1100.
- Cigarette-box. A. Mendelson. No. 1,158,826; Nov. 2; Gaz. vol. 220; p. 148.
- Cigarette-box. A. Mendelson. No. 1,160,930; Nov. 16; Gaz. vol. 220; p. 973.
- Cigarette-box. A. Mendelson and S. J. Goldberg. No. 1,144,559; June 29; Gaz. vol. 215; p. 1341.
- Cigarette-box. D. Stoll. No. 1,163,183; Dec. 7; Gaz. vol. 221; p. 157.
- Cigarette-box and match-holder, Combined. J. Heretyk. No. 1,143,627; June 22; Gaz. vol. 215; p. 990.
- Cigarette-box-grouping machine. J. Ibarra. No. 1,143,400; June 15; Gaz. vol. 215; p. 889.
- Cigarette box or case. A. Mendelson. No. 1,160,931; Nov. 16; Gaz. vol. 220; p. 973.
- Cigarette box or container. J. A. Shearman and F. De Gordy. No. 1,155,688; Oct. 5; Gaz. vol. 219; p. 127.
- Cigarette-case. C. E. Hansen. No. 1,129,484; Feb. 23; Gaz. vol. 211; p. 1113.
- Cigarette-case. T. F. Hathaway. No. 1,156,598; Oct. 12; Gaz. vol. 219; p. 468.
- Cigarette-case. S. Holtzclaw and D. H. Garnett. No. 1,140,305; May 18; Gaz. vol. 214; p. 981.
- Cigarette-case. A. Mendelson. No. 1,160,933; Nov. 16; Gaz. vol. 220; p. 974.
- Cigarette-case. V. Nivois. No. 1,165,996; Dec. 28; Gaz. vol. 221; p. 1264.
- Cigarette-case. P. S. O'Donnell. No. 1,131,856; Mar. 16; Gaz. vol. 212; p. 771.
- Cigarette-case. L. Potter. No. 1,133,745; Mar. 30; Gaz. vol. 212; p. 1540.
- Cigarette-container. M. Wolf. No. 1,154,589; Sept. 21; Gaz. vol. 218; p. 852.
- Cigarette cork-tipping machine. V. and J. Ragona. No. 1,131,790; Mar. 16; Gaz. vol. 212; p. 747.
- Cigarette cork-tipping machine. V. and J. Ragona. No. 1,131,791; Mar. 16; Gaz. vol. 212; p. 747.
- Cigarette-filling machines, Gearing for. M. C. Grahl. No. 1,162,478; Nov. 30; Gaz. vol. 220; p. 1607.
- Cigarette-holder. R. Wallenstein. No. 1,164,434; Dec. 14; Gaz. vol. 221; p. 640.
- Cigarette-machine. N. Du Brul. No. 1,133,844; Mar. 30; Gaz. vol. 212; p. 1575.
- Cigarette-machine. E. C. Gallup. No. 1,133,951; Mar. 30; Gaz. vol. 212; p. 1610.
- Cigarette-machine. S. Ragona. No. 1,134,638; Apr. 6; Gaz. vol. 213; p. 203.
- Cigarette-machine. L. E. R. Rogier. No. 1,164,118; Dec. 14; Gaz. vol. 221; p. 530.
- Cigarette-machines, Cutting mechanism for. J. M. Hornaday. No. 1,143,628; June 22; Gaz. vol. 215; p. 991.
- Cigarette-machines, Feed for. F. E. Ludington. No. 1,165,613; Dec. 28; Gaz. vol. 221; p. 1130.
- Cigarette-machines, Seam-sealing device for. A. L. Ewers. No. 1,130,720; Mar. 9; Gaz. vol. 212; p. 341.
- Cigarette-machines, Tobacco-feeding mechanism for. N. and A. Du Brul. No. 1,164,176; Dec. 14; Gaz. vol. 221; p. 549.
- Cigarette-making device. H. Knight. No. 1,133,972; Mar. 30; Gaz. vol. 212; p. 1616.
- Cigarette-making device. J. Preston. No. 1,136,720; Apr. 20; Gaz. vol. 213; p. 1017.
- Cigarette-making device, Pocket. H. C. Karlson. No. 1,150,824; Aug. 17; Gaz. vol. 217; p. 994.
- Cigarette-mouthpiece. J. Rovira and H. Ahrlé. No. 1,153,574; Sept. 14; Gaz. vol. 218; p. 469.
- Cigarette or cigar, Igniting. C. E. Rodriguez. No. 1,142,529; June 8; Gaz. vol. 215; p. 545.
- Cigarette-package. A. F. Hetherington. No. 1,138,382; May 4; Gaz. vol. 214; p. 233.
- Cigarette-package. M. J. Sheridan. No. 1,126,103; Jan. 26; Gaz. vol. 210; p. 1139.
- Cigarette packing and sealing machine. D. Pantazi. No. 1,155,002; Sept. 28; Gaz. vol. 218; p. 1020.
- Cigarette-paper case. P. Goursat. No. 1,131,505; Mar. 9; Gaz. vol. 212; p. 611.
- Cigarette-paper holder. E. S. Schuyler. No. 1,127,292; Feb. 2; Gaz. vol. 211; p. 221.
- Cigarette-rolling machine. J. E. Roache. No. 1,134,013; Mar. 30; Gaz. vol. 212; p. 1628.
- Cigarette-seam-finishing machine. P. A. Drucklieb. No. 1,152,716; Sept. 7; Gaz. vol. 218; p. 124.
- Cigarette-seam-finishing machine. P. A. Drucklieb. No. 1,152,717; Sept. 7; Gaz. vol. 218; p. 124.
- Cigarette-supporter. H. Saart. No. 1,140,072; May 18; Gaz. vol. 214; p. 903.
- Cigarette wrapping and tuckling machine. B. T. Burchard and B. E. Teale. No. 1,134,438; Apr. 6; Gaz. vol. 213; p. 129.
- Cigarettes into cases, Apparatus for distributing and filling. L. Chambon. No. 1,156,465; Oct. 12; Gaz. vol. 219; p. 422.
- Cinder-deflector. E. C. Sasser. No. 1,130,110; Mar. 2; Gaz. vol. 212; p. 93.
- Cinder-deflector. E. C. Sasser. No. 1,130,111; Mar. 2; Gaz. vol. 212; p. 94.
- Cinematograph and like machines, Film-holder for. H. Fisher. No. 1,126,436; Jan. 26; Gaz. vol. 210; p. 1257.
- Cinematograph and similar films, Apparatus for intermittently feeding. H. Fisher. No. 1,128,861; Feb. 16; Gaz. vol. 211; p. 856.
- Cinematograph and the like. H. W. Joy. No. 1,124,621; Jan. 12; Gaz. vol. 210; p. 542.

Alphabetical list of inventions—Continued.

- Cinematograph apparatus. L. Kamm. No. 1,165,513; Dec. 28; Gaz. vol. 221; p. 1094.
- Cinematograph apparatus. A. S. Newman. No. 1,144,774; June 29; Gaz. vol. 215; p. 1416.
- Cinematograph apparatus, Marking device for. W. H. Anderson. No. 1,127,155; Feb. 2; Gaz. vol. 211; p. 173.
- Cinematograph film-inspection or home projection apparatus. A. J. Bohringer. No. 1,128,841; Feb. 16; Gaz. vol. 211; p. 850.
- Cinematograph-films, Controlling the feed of. H. Fisher. No. 1,126,437; Jan. 26; Gaz. vol. 210; p. 1258.
- Cinematograph-machines. Fire-protection device for. E. W. Fox. No. 1,130,079; Mar. 2; Gaz. vol. 212; p. 82.
- Cinematograph-projector. F. M. H. Wunderlich. No. 1,162,430; Nov. 30; Gaz. vol. 220; p. 1589.
- Cinematograph, Stereo-. E. Cervenka. No. 1,163,892; Dec. 14; Gaz. vol. 221; p. 451.
- Cinematograph target apparatus. D. H. Corbin and A. W. Harris. No. 1,125,660; Jan. 19; Gaz. vol. 210; p. 947.
- Cinematograph target apparatus. D. H. Corbin and A. W. Harris. No. 1,125,661; Jan. 19; Gaz. vol. 210; p. 947.
- Cinematograph target apparatus. D. H. Corbin and A. W. Harris. No. 1,125,662; Jan. 19; Gaz. vol. 210; p. 948.
- Cinematographs, Lighting system for. A. Köhler. No. 1,143,287; June 15; Gaz. vol. 215; p. 848.
- Cinematographs, Lighting system of. R. Straubel. No. 1,143,663; June 22; Gaz. vol. 215; p. 1003.
- Cinematographs or the like, Apparatus for intermittently moving forward the picture-film for. S. Kucharski. No. 1,143,977; June 22; Gaz. vol. 215; p. 1110.
- Cinematographic apparatus. W. Bauersfeld. No. 1,154,835; Sept. 28; Gaz. vol. 218; p. 965.
- Cinematographic apparatus. W. Thorner. No. 1,151,978; Aug. 31; Gaz. vol. 217; p. 1494.
- Cinematographic films and the like, Machine for drying. J. Marett. No. 1,150,609; Aug. 17; Gaz. vol. 217; p. 920.
- Cinematographic films, Apparatus for developing and washing. R. Javault. No. 1,141,464; June 1; Gaz. vol. 215; p. 136.
- Cinematographic views, Apparatus for projecting. A. Müllner. No. 1,159,981; Nov. 9; Gaz. vol. 220; p. 586.
- Cinematography, Natural-color. P. Ulysse. No. 1,161,910; Nov. 30; Gaz. vol. 220; p. 1410.
- Cinnabar, Manufacture of. A. Elbner. No. 1,137,467; Apr. 27; Gaz. vol. 213; p. 1323.
- Cipher-code device. E. H. Hebern. No. 1,136,876; Apr. 20; Gaz. vol. 213; p. 1072.
- Circuit-breaker. B. F. Bailey. No. 1,141,300; June 1; Gaz. vol. 215; p. 76.
- Circuit-breaker. H. M. Boal. No. 1,148,437; July 27; Gaz. vol. 216; p. 1280.
- Circuit-breaker. J. Cuculie. No. 1,153,765; Sept. 14; Gaz. vol. 218; p. 533.
- Circuit-breaker. R. R. Dunlop. No. 1,125,077; Jan. 19; Gaz. vol. 210; p. 738.
- Circuit-breaker. L. L. Elden. No. 1,145,235; July 6; Gaz. vol. 216; p. 92.
- Circuit-breaker. F. W. Harris. No. 1,125,520; Jan. 19; Gaz. vol. 210; p. 897.
- Circuit-breaker. D. B. Hughes. No. 1,146,167; July 13; Gaz. vol. 216; p. 438.
- Circuit-breaker. R. B. Macnish. No. 1,139,789; May 18; Gaz. vol. 214; p. 800.
- Circuit-breaker. J. W. McMillion. No. 1,165,192; Dec. 21; Gaz. vol. 221; p. 946.
- Circuit-breaker. W. M. Scott. No. 1,125,745; Jan. 19; Gaz. vol. 210; p. 978.
- Circuit-breaker. W. M. Scott. No. 1,138,800; May 11; Gaz. vol. 214; p. 418.
- Circuit-breaker. A. M. Taylor. No. 1,164,320; Dec. 14; Gaz. vol. 221; p. 599.
- Circuit-breaker. C. A. Tucker. No. 1,151,739; Aug. 31; Gaz. vol. 217; p. 1410.
- Circuit-breaker, Automatic. A. R. Anderson. No. 1,161,278; Nov. 23; Gaz. vol. 220; p. 1143.
- Circuit-breaker, Automatic. J. P. Arndt. No. 1,164,906; Dec. 21; Gaz. vol. 221; p. 844.
- Circuit-breaker, Automatic. R. E. Hellmund. No. 1,123,288; Jan. 5; Gaz. vol. 210; p. 29.
- Circuit-breaker, Centrifugal. C. F. Rumold. No. 1,137,908; May 4; Gaz. vol. 214; p. 64.
- Circuit-breaker for magnetos. J. H. Richards. No. 1,125,715; Jan. 19; Gaz. vol. 210; p. 968.
- Circuit-breaker, Motor-protecting. J. T. Leonard. No. 1,134,752; Apr. 6; Gaz. vol. 213; p. 245.
- Circuit-breaker, Overload. D. Larson. No. 1,134,750; Apr. 6; Gaz. vol. 213; p. 244.
- Circuit-breaker, Time-limit. C. C. Badeau. No. 1,124,832; Jan. 12; Gaz. vol. 210; p. 617.
- Circuit-breaker, Time-limit. M. F. Owens. No. 1,144,233; June 22; Gaz. vol. 215; p. 1203.
- Circuit-breaker, Time-limit. H. A. Steen. No. 1,140,007; May 18; Gaz. vol. 214; p. 879.
- Circuit-breaker tripping apparatus. W. M. Scott. No. 1,123,809; Jan. 5; Gaz. vol. 210; p. 208.
- Circuit-breaker tripping apparatus. W. M. Scott. No. 1,124,179; Jan. 5; Gaz. vol. 210; p. 334.
- Circuit-breakers, Automatic replacing device for. G. S. Hoover. No. 1,165,602; Dec. 28; Gaz. vol. 221; p. 1126.
- Circuit-breakers, Mechanism for the control of. L. L. Elden. No. 1,157,930; Oct. 26; Gaz. vol. 219; p. 1028.
- Circuit-closer. J. E. Bishop. No. 1,161,594; Nov. 23; Gaz. vol. 220; p. 1254.
- Circuit-closer. M. A. Button. No. 1,148,750; Aug. 3; Gaz. vol. 217; p. 96.
- Circuit-closer. J. W. Darley, Jr. No. 1,155,302; Sept. 28; Gaz. vol. 218; p. 1121.
- Circuit-closer. W. C. Neahr. No. 1,134,547; Apr. 6; Gaz. vol. 213; p. 169.
- Circuit-closer. I. E. Rosenthal. No. 1,148,931; Aug. 3; Gaz. vol. 217; p. 158.
- Circuit-closer. F. E. Schinke. No. 1,151,828; Aug. 31; Gaz. vol. 217; p. 1443.
- Circuit-closer. P. Sebok, Jr. No. 1,149,787; Aug. 10; Gaz. vol. 217; p. 568.
- Circuit-closer. F. Williams. No. 1,143,676; June 22; Gaz. vol. 215; p. 1007.
- Circuit-closer, Float-operated. D. F. Thomson. No. 1,153,142; Sept. 7; Gaz. vol. 218; p. 273.
- Circuit-closer for electric-lighted levels or plumbs. A. R. Jones. No. 1,139,295; May 11; Gaz. vol. 214; p. 590.
- Circuit-closer for speed-indicators. J. Goldstein and L. Steiner. No. 1,149,042; Aug. 3; Gaz. vol. 217; p. 197.
- Circuit-closer, Thermal. J. F. Scheuer. No. 1,159,602; Nov. 9; Gaz. vol. 20; p. 449.
- Circuit-closer, Thermo. L. L. White. No. 1,151,142; Aug. 24; Gaz. vol. 217; p. 1161.
- Circuit-closing and circuit-breaking device, Electromagnetic. A. Pick. No. 1,146,734; July 13; Gaz. vol. 216; p. 635.
- Circuit-closing device. F. M. Rosenfeld. No. 1,154,130; Sept. 21; Gaz. vol. 218; p. 695.
- Circuit-closing device. J. W. Smith. No. 1,133,448; Mar. 30; Gaz. vol. 212; p. 1432.
- Circuit-control apparatus, Automatic. M. Barron. No. 1,157,663; Oct. 26; Gaz. vol. 219; p. 935.
- Circuit-controller. J. P. Coleman. No. 1,132,444; Mar. 16; Gaz. vol. 212; p. 984.
- Circuit-controller. A. H. Fleet. No. 1,130,969; Mar. 9; Gaz. vol. 212; p. 426.
- Circuit-controller. T. T. Gaff. No. 1,150,356; Aug. 17; Gaz. vol. 217; p. 833.
- Circuit-controller. C. I. Hall. No. 1,137,610; Apr. 27; Gaz. vol. 213; p. 1370.
- Circuit-controller. C. O. Harrington. No. 1,132,473; Mar. 16; Gaz. vol. 212; p. 994.
- Circuit-controller. F. W. Harris. No. 1,162,056; Nov. 30; Gaz. vol. 220; p. 1461.
- Circuit-controller. A. J. Horton. No. 1,161,477; Nov. 23; Gaz. vol. 220; p. 1214.
- Circuit-controller. F. R. Hoyt. No. 1,135,285; Apr. 13; Gaz. vol. 213; p. 469.
- Circuit-controller. A. C. Livermore. No. 1,126,043; Jan. 26; Gaz. vol. 210; p. 1115.
- Circuit-controller. E. Manson. No. 1,128,167; Feb. 9; Gaz. vol. 211; p. 567.
- Circuit-controller. W. Morrison. No. 1,130,320; Mar. 2; Gaz. vol. 212; p. 166.
- Circuit-controller. E. J. Murphy. No. 1,154,266; Sept. 21; Gaz. vol. 218; p. 741.
- Circuit-controller. W. C. Reed. No. 1,152,843; Sept. 7; Gaz. vol. 218; p. 171.
- Circuit-controller. A. Simon. No. 1,154,733; Sept. 28; Gaz. vol. 218; p. 930.
- Circuit-controller. L. L. Tatum. No. 1,138,808; May 11; Gaz. vol. 214; p. 420.
- Circuit-controller. T. Varney. No. 1,124,678; Jan. 12; Gaz. vol. 210; p. 563.
- Circuit-controller. P. H. Zimmer. No. 1,136,639; Apr. 20; Gaz. vol. 213; p. 987.
- Circuit-controlling apparatus. F. W. Roller. No. 1,124,809; Jan. 12; Gaz. vol. 210; p. 609.
- Circuit-controlling apparatus, Automatic. C. G. Cunningham. No. 1,132,654; Mar. 23; Gaz. vol. 212; p. 1110.
- Circuit-controlling device. F. J. Ackerman. No. 1,131,982; Mar. 16; Gaz. vol. 212; p. 817.
- Circuit-controlling device. M. Levison. No. 1,157,012; Oct. 19; Gaz. vol. 219; p. 644.
- Circuit-controlling device. W. P. Seng. No. 1,134,355; Apr. 6; Gaz. vol. 213; p. 99.
- Circuit-controlling device. P. H. Zimmer. No. 1,145,453; July 6; Gaz. vol. 216; p. 168.
- Circuit-controlling element. C. H. Kayser. No. 1,143,969; June 22; Gaz. vol. 215; p. 1107.
- Circuit-controlling means, Locking device for. R. Schoell. No. 1,142,732; June 8; Gaz. vol. 215; p. 611.
- Circuit-controlling mechanism. E. Schildhauer. No. 1,142,847; June 15; Gaz. vol. 215; p. 691.
- Circuit device, Separable. C. J. Klein. No. 1,139,687; May 18; Gaz. vol. 214; p. 765.
- Circuit-interrupter. W. Cooper. No. 1,140,957; May 25; Gaz. vol. 214; p. 1246.
- Circuit-interrupter. H. P. Davis and C. Aalborg. No. 1,123,255; Jan. 5; Gaz. vol. 210; p. 18.
- Circuit-interrupter. H. P. Davis and C. Aalborg. No. 1,140,961; May 25; Gaz. vol. 214; p. 1248.
- Circuit-interrupter. F. W. Harris. No. 1,123,282; Jan. 5; Gaz. vol. 210; p. 27.
- Circuit-interrupter. F. W. Harris. No. 1,132,772; Mar. 23; Gaz. vol. 212; p. 1153.
- Circuit-interrupter. F. W. Harris. No. 1,138,754; May 11; Gaz. vol. 214; p. 400.

Alphabetical list of inventions—Continued.

- Circuit-interrupter. F. W. Harris. No. 1,158,492; Nov. 2; Gaz. vol. 220; p. 28.
- Circuit-interrupter. C. Lichtenberg. No. 1,137,340; Apr. 27; Gaz. vol. 213; p. 1279.
- Circuit-interrupter. J. N. Mahoney. No. 1,132,786; Mar. 23; Gaz. vol. 212; p. 1159.
- Circuit-interrupter. J. A. Vahey. No. 1,158,086; Oct. 26; Gaz. vol. 219; p. 1084.
- Circuit-interrupting device. W. M. Austin and J. N. Mahoney. No. 1,156,655; Oct. 12; Gaz. vol. 219; p. 490.
- Circuit-interrupting device. E. R. Carichoff. No. 1,164,257; Dec. 14; Gaz. vol. 221; p. 576.
- Circuit maker and breaker, Automatic. M. Scholl. No. 1,158,729; Nov. 2; Gaz. vol. 220; p. 111.
- Circuit, Substation sender. A. E. Lundell. No. 1,148,912; Aug. 3; Gaz. vol. 217; p. 152.
- Circuit-switch. J. C. Wrasse. No. 1,123,829; Jan. 5; Gaz. vol. 210; p. 215.
- Circuit, Universal cord-. J. E. Hilbish. No. 1,127,437; Feb. 9; Gaz. vol. 211; p. 311.
- Circuit-wire terminal. A. A. Ziegler. No. 1,141,598; June 1; Gaz. vol. 215; p. 183.
- Circuits of low impedance, Gaseous repeater in. H. D. Arnold. No. 1,129,942; Mar. 2; Gaz. vol. 212; p. 38.
- Circuits of low impedance, Gaseous repeater in. H. D. Arnold. No. 1,129,943; Mar. 2; Gaz. vol. 212; p. 38.
- Circuits, Protective device for bus-bar. P. Torchio and H. R. Woodrow. No. 1,149,603; Aug. 10; Gaz. vol. 217; p. 500.
- Circular objects, Machine for covering. C. J. Landin. No. 1,134,208; Apr. 6; Gaz. vol. 213; p. 46.
- Circulating machine, Automatic stick-. W. F. Marresford. No. 1,125,363; Jan. 19; Gaz. vol. 210; p. 842.
- Circulating system. N. M. La Porte. No. 1,138,962; May 11; Gaz. vol. 214; p. 474.
- Circulation-control system. E. F. Edgecombe, Jr. No. 1,138,854; May 11; Gaz. vol. 214; p. 437.
- Circulator. F. W. Guibert. No. 1,138,864; May 11; Gaz. vol. 214; p. 441.
- Circulator. N. M. La Porte. No. 1,162,084; Nov. 30; Gaz. vol. 22; p. 1471.
- Cistern, Flushing-. C. L. Newland. No. 1,132,608; Mar. 23; Gaz. vol. 212; p. 1092.
- Cistern, Flushing-. A. Valois. No. 1,125,219; Jan. 19; Gaz. vol. 210; p. 790.
- Cistern neck-ring and cover. H. W. Farris. No. 1,152,618; Sept. 7; Gaz. vol. 218; p. 87.
- Cistern, Siphon-flushing. J. Holt. No. 1,154,186; Sept. 21; Gaz. vol. 218; p. 713.
- Cisterns, Automatic cut-out attachment for. L. C. Overmiller. No. 1,127,500; Feb. 9; Gaz. vol. 211; p. 334.
- Clam-digger and fishing-machine. L. R. Gage. No. 1,164,492; Dec. 14; Gaz. vol. 221; p. 660.
- Clam-rake. M. P. Simas. No. 1,141,423; June 1; Gaz. vol. 215; p. 121.
- Clamp: See—
- Adjustable clamp.
- Automobile-clamp.
- Bag-holder clamp.
- Basket-cover clamp.
- Basket-runner clamp.
- Beam-clamp.
- Bedclothes-clamp.
- Bench-clamp.
- Board-clamp.
- Book-pad clamp.
- Cable-clamp.
- Carpenter's clamp.
- Carpet and rug clamp.
- Chain-clamp.
- Cloth-clamp.
- Clothes-clamp.
- Clutch-clamp.
- Column-clamp.
- Concrete-column clamp.
- Concrete-form clamp.
- Cue-tip clamp.
- Derrick-clamp.
- Door-clamp.
- Door-supporting clamp.
- Fence-clamp.
- Fence-wire clamp.
- Floor-clamp.
- Fracture-clamp.
- Gluing-clamp.
- Ground-clamp.
- Hand-clamp.
- Hay-rack clamp.
- Hinge-clamp.
- Hose-clamp.
- Hose-supporter clamp.
- Insulator-clamp.
- Lasting-machine toe-clamp.
- Locking-clamp.
- Meat-clamp.
- Music-clamp.
- Needle-clamp.
- Pipe-clamp.
- Pipe and rod clamp.
- Plate-clamp.
- Plumber's clamp.
- Printing-frame clamp.
- Printing-press plate-clamp.
- Pulley-rim clamp.
- Rail-clamp.
- Rail-anticreeping clamp.
- Ring-clamp.
- Rod-clamp.
- Roller-clamp.
- Rope-clamp.
- Rubber-dam clamp.
- Saw-clamp.
- Shoe-clamp.
- Skate-clamp.
- Spring-clamp.
- Stitching-clamp.
- Stone-lifting clamp.
- Supporting-clamp.
- Suspension-clamp.
- Tape-clamp.
- Tie and rail-clamp.
- Tile or block clamp.
- Tire-clamp.
- Tool-clamp.
- Trolley-wire clamp.
- Undertaker's clamp.
- Vehicle top-bow clamp.
- Washboard-clamp.
- Well-drilling-cable clamp.
- Wheel-clamp.
- Wire-clamp.
- Wire-stretcher clamp.
- Wood-clamp.
- Work-holding clamp.
- Clamp. S. D. Butterworth. No. 1,127,585; Feb. 9; Gaz. vol. 211; p. 362.
- Clamp. C. H. Davis. No. 1,126,162; Jan. 26; Gaz. vol. 210; p. 1159.
- Clamp. A. Erman. No. 1,159,199; Nov. 2; Gaz. vol. 220; p. 275.
- Clamp. W. J. Hunkin. No. 1,153,552; Sept. 14; Gaz. vol. 218; p. 461.
- Clamp. W. D. Kennedy. No. 1,154,405; Sept. 21; Gaz. vol. 218; p. 790.
- Clamp. E. and A. Linton. No. 1,132,364; Mar. 16; Gaz. vol. 212; p. 955.
- Clamp. C. D. Platt. No. 1,135,612; Apr. 13; Gaz. vol. 213; p. 585.
- Clamp. G. H. Schiek and G. P. Bittermann. No. 1,145,514; July 6; Gaz. vol. 216; p. 188.
- Clamp. H. V. Steuernagel. No. 1,126,116; Jan. 26; Gaz. vol. 210; p. 1143.
- Clamp. S. W. Tate. No. 1,130,772; Mar. 9; Gaz. vol. 212; p. 359.
- Clamp. C. A. Taylor. No. 1,138,905; May 11; Gaz. vol. 214; p. 454.
- Clamp. J. J. Tracy. No. 1,140,632; May 25; Gaz. vol. 214; p. 1133.
- Clamp and collar-button, Combined. F. E. Glynn. No. 1,160,066; Nov. 9; Gaz. vol. 220; p. 613.
- Clamp-band. F. C. Stuckel. No. 1,165,464; Dec. 28; Gaz. vol. 221; p. 1078.
- Clamp-brace. J. S. Richardson. No. 1,157,327; Oct. 19; Gaz. vol. 219; p. 756.
- Clamp for angle-iron posts and the like. H. E. Atchison. No. 1,125,436; Jan. 19; Gaz. vol. 210; p. 868.
- Clamp for supporters. E. Gass. No. 1,149,905; Aug. 10; Gaz. vol. 217; p. 611.
- Clamp-joint, Flexible. C. P. Klorer. No. 1,137,333; Apr. 27; Gaz. vol. 213; p. 1275.
- Clamp-setting tool, Quarter-crack. F. A. Dresser. No. 1,163,617; Dec. 7; Gaz. vol. 221; p. 309.
- Clamps to strips of fabric, Machine for use in applying. K. F. Jensen. No. 1,154,249; Sept. 21; Gaz. vol. 218; p. 735.
- Clamping and supporting means. J. O. Casaday. No. 1,146,750; July 13; Gaz. vol. 216; p. 641.
- Clamping device. H. G. Christman. No. 1,128,585; Feb. 16; Gaz. vol. 211; p. 761.
- Clamping device. O. K. Dunbar. No. 1,128,423; Feb. 16; Gaz. vol. 211; p. 705.
- Clamping device. W. J. Kleinsteuber. No. 1,155,662; Oct. 5; Gaz. vol. 219; p. 117.
- Clamping device. E. J. Madden. No. 1,152,530; Sept. 7; Gaz. vol. 218; p. 56.
- Clamping device. B. Richards. No. 1,126,867; Feb. 2; Gaz. vol. 211; p. 72.
- Clamping device, Adjustable. F. J. Madell. No. 1,130,831; Mar. 9; Gaz. vol. 212; p. 378.
- Clamping device, Adjustable frictional. T. S. Lewis. No. 1,147,029; July 20; Gaz. vol. 216; p. 759.
- Clamping device for use with rods and the like. J. R. Brown. No. 1,125,953; Jan. 26; Gaz. vol. 210; p. 1083.
- Clamping or locking device. A. Zieve. No. 1,135,481; Apr. 13; Gaz. vol. 213; p. 538.
- Clamping-support. J. B. Oelkers. No. 1,143,990; June 22; Gaz. vol. 215; p. 1115.
- Clamping-tool. W. D. Henderson. No. 1,128,681; Feb. 16; Gaz. vol. 211; p. 794.
- Clapboard-marker. H. Neistadt. No. 1,153,171; Sept. 7; Gaz. vol. 218; p. 284.
- Clarifying device. G. E. Emanuel. No. 1,158,034; Oct. 26; Gaz. vol. 219; p. 1065.
- Clarinet tuning-slide. L. J. Dennis. No. 1,163,222; Dec. 7; Gaz. vol. 221; p. 171.
- Clasp: See—
- Bag-clasp.
- Belt-clasp.
- Brake-rigging clasp.
- Corset-clasp.
- Fabric-clasp.
- Footwear-clasp.
- Garment-clasp.
- Lingerie-clasp.
- Necklace-clasp.
- Paper-clasp.
- Safety-clasp.
- Shade-stick clasp.
- Shoe-clasp.
- Spring-clasp.
- Stay-clasp.
- Suspender-clasp.
- Tie-clasp.
- Vanity-clasp.
- Clasp. E. T. Childs. No. 1,151,084; Aug. 24; Gaz. vol. 217; p. 1141.
- Clasp. W. Conway. (Reissue.) No. 1,100,1; Oct. 26; Gaz. vol. 219; p. 1202.
- Clasp. J. F. Daniels. No. 1,147,147; July 20; Gaz. vol. 216; p. 800.
- Clasp. J. Grieve. No. 1,128,601; Feb. 16; Gaz. vol. 211; p. 766.
- Clasp. J. C. Hitchner. No. 1,135,968; Apr. 13; Gaz. vol. 213; p. 710.
- Clasp. C. W. McGinley. No. 1,132,785; Mar. 23; Gaz. vol. 212; p. 1159.
- Clasp. W. Moulton. No. 1,127,074; Feb. 2; Gaz. vol. 211; p. 144.
- Clasp. B. F. Stafford. No. 1,124,069; Jan. 5; Gaz. vol. 210; p. 296.
- Clasp-brake. W. C. Hedgcock. No. 1,146,874; July 20; Gaz. vol. 216; p. 704.
- Classifier. R. H. Richards. No. 1,129,522; Feb. 23; Gaz. vol. 211; p. 1125.

Alphabetical list of inventions—Continued.

- Classifier. A. E. Vandercook. No. 1,151,137; Aug. 24; Gaz. vol. 217; p. 1159.
- Classifier and dewaterer. W. J. Boudwin. No. 1,140,793; May 25; Gaz. vol. 214; p. 1186.
- Classifier, Rotary. C. O. Michaelsen. No. 1,140,700; May 25; Gaz. vol. 214; p. 1154.
- Claw-bar. F. Limer. No. 1,131,393; Mar. 9; Gaz. vol. 212; p. 572.
- Clay and like materials, Treating. F. Thompson. No. 1,132,537; Mar. 16; Gaz. vol. 212; p. 1019.
- Clay-cleaner. B. Jacquart and J. V. V. Booraem. No. 1,136,676; Apr. 20; Gaz. vol. 213; p. 1000.
- Clay-cleaner. B. Jacquart and J. V. V. Booraem. No. 1,136,677; Apr. 20; Gaz. vol. 213; p. 1001.
- Clay, Treating. J. L. Musser. No. 1,147,114; July 20; Gaz. vol. 216; p. 788.
- Cleaner: See—
- Bag-cleaner. Gin-saw cleaner.
 - Bean-cleaner. Glass-cleaner.
 - Beer-pipe and beer-coil cleaner. Gooseberry-cleaner.
 - Beet-cleaner. Gun-cleaner.
 - Belt-cleaner. Lamp-cleaner.
 - Blower-cleaner. Matrix-cleaner.
 - Boiler-cleaner. Pen-cleaner.
 - Boiler-flue cleaner. Pipe-cleaner.
 - Boiler-tube cleaner. Pipe and tube cleaner.
 - Bolting-cloth cleaner. Pneumatic cleaner.
 - Butcher-block cleaner. Pneumatic suction-cleaner.
 - Car-window cleaner. Railway-track cleaner.
 - Carpet-cleaner. Rake-cleaner.
 - Clay-cleaner. Rake-tooth cleaner.
 - Coal-cleaner. Rifle-cleaner.
 - Colter-cleaner. Seed-cleaner.
 - Comb-cleaner. Sewer-cleaner.
 - Cotton-cleaner. Shoe-cleaner.
 - Culinary cleaner. Soot-cleaner.
 - Ear and finger-nail cleaner. Spinning-machine cleaner.
 - Eraser-cleaner. Stone-ballast cleaner.
 - Excavating-dipper cleaner. Stovepipe-cleaner.
 - Eyeglass-cleaner. Street-cleaner.
 - Film-cleaner. Suction-cleaner.
 - Fish-screen cleaner. Tooth-cleaner.
 - Floor-cleaner. Track-cleaner.
 - Flue-cleaner. Tube-cleaner.
 - Fruit and vegetable cleaner. Vacuum-cleaner.
 - Gas-cleaner. Valve-cleaner.
 - Gasket-seat cleaner. Well-cleaner.
 - Gasket. Wind-shield cleaner.
 - Gasket. Window-cleaner.
- Cleaner. F. M. Case. No. 1,147,307; July 20; Gaz. vol. 216; p. 854.
- Cleaner and paper-hanger, Combined. J. W. Jones, A. E. and W. W. Price. No. 1,134,204; Apr. 6; Gaz. vol. 213; p. 44.
- Cleaners, Combined hydraulic motor and vacuum-creating means for. W. A. Doble. No. 1,138,852; May 11; Gaz. vol. 214; p. 436.
- Cleaning and bleaching composition. W. M. and H. Seigel. No. 1,165,027; Dec. 21; Gaz. vol. 221; p. 887.
- Cleaning and dyeing machine. A. Just. No. 1,125,691; Jan. 19; Gaz. vol. 210; p. 959.
- Cleaning and polishing composition. G. H. Keith. No. 1,146,173; July 13; Gaz. vol. 216; p. 440.
- Cleaning and polishing machine. L. H. Illing. No. 1,160,613; Nov. 16; Gaz. vol. 220; p. 861.
- Cleaning and polishing painted or varnished surfaces, Composition of matter for. F. C. Donovan. No. 1,123,709; Jan. 5; Gaz. vol. 210; p. 174.
- Cleaning apparatus. B. E. Harris. No. 1,143,959; June 22; Gaz. vol. 215; p. 1104.
- Cleaning apparatus. F. H. Ogilvie. No. 1,141,139; June 1; Gaz. vol. 215; p. 17.
- Cleaning apparatus. I. H. Spencer. No. 1,134,022; Mar. 30; Gaz. vol. 212; p. 1632.
- Cleaning apparatus. I. H. Spencer. No. 1,161,263; Nov. 23; Gaz. vol. 220; p. 1138.
- Cleaning apparatus, Article. E. L. Couch. (Reissue.) No. 14,007; Nov. 9; Gaz. vol. 220; p. 633.
- Cleaning apparatus, Pneumatic. A. E. Tolin. No. 1,123,426; Jan. 5; Gaz. vol. 210; p. 79.
- Cleaning apparatus, Surface-. G. Durham and C. W. McGuirk. No. 1,135,001; Apr. 13; Gaz. vol. 213; p. 372.
- Cleaning appliance. T. J. Browning. No. 1,154,369; Sept. 21; Gaz. vol. 218; p. 779.
- Cleaning articles. E. L. Couch. No. 1,150,101; Aug. 17; Gaz. vol. 217; p. 742.
- Cleaning-cloth and producing same. B. H. Criswell. No. 1,143,614; June 22; Gaz. vol. 215; p. 986.
- Cleaning device. J. A. De Vito. No. 1,139,352; May 11; Gaz. vol. 214; p. 609.
- Cleaning device. A. H. Kidney. No. 1,129,689; Feb. 23; Gaz. vol. 211; p. 1181.
- Cleaning, extracting, and drying machine, Combined clothes. C. C. Meutsch. No. 1,158,527; Nov. 2; Gaz. vol. 220; p. 41.
- Cleaning-machine. P. Killpatrick. No. 1,123,890; Jan. 5; Gaz. vol. 210; p. 236.
- Cleaning-machine. C. H. Krebs. No. 1,129,875; Mar. 2; Gaz. vol. 212; p. 15.
- Cleaning-powder. C. H. Schlabach. No. 1,124,664; Jan. 12; Gaz. vol. 210; p. 558.
- Cleaning surfaces. O. M. Foster. No. 1,141,243; June 1; Gaz. vol. 215; p. 54.
- Cleaning the exteriors of receptacles, Machine for. J. Merritt and E. W. Smith. No. 1,134,213; Apr. 6; Gaz. vol. 213; p. 48.
- Cleaning-tool. I. H. Spencer. No. 1,162,195; Nov. 30; Gaz. vol. 220; p. 1510.
- Cleaning-tool. I. H. Spencer. No. 1,162,412; Nov. 30; Gaz. vol. 220; p. 1583.
- Cleaning-tool. J. M. Stabel. No. 1,139,736; May 18; Gaz. vol. 214; p. 782.
- Cleaning-tool for jack-contacts. W. Kalsling. No. 1,151,274; Aug. 24; Gaz. vol. 217; p. 1206.
- Cleaning-tool, Suction. R. H. Morrow. No. 1,128,487; Feb. 16; Gaz. vol. 211; p. 727.
- Cleaning toothed articles, Appliance for. W. E. List. No. 1,155,747; Oct. 5; Gaz. vol. 219; p. 146.
- Cleaning-waste, Manufacture of. S. D. Stead. No. 1,157,816; Oct. 26; Gaz. vol. 219; p. 988.
- Cleansing and disinfecting fluid. I. L. Halman. No. 1,133,639; Mar. 30; Gaz. vol. 212; p. 1502.
- Cleansing apparatus. J. D. Haggerty and F. R. Monroe. No. 1,147,164; July 20; Gaz. vol. 216; p. 805.
- Cleansing apparatus, Floor-. H. F. Joseph. No. 1,149,835; Aug. 10; Gaz. vol. 217; p. 586.
- Cleansing receptacles, Apparatus for interiorly. P. G. Schmidt. No. 1,142,913; June 15; Gaz. vol. 215; p. 716.
- Clearer-cover. J. A. Cooper. No. 1,141,692; June 1; Gaz. vol. 215; p. 215.
- Cleat. H. B. Sherman. No. 1,163,269; Dec. 7; Gaz. vol. 221; p. 187.
- Cleat. P. W. Stansbury. No. 1,148,260; July 27; Gaz. vol. 216; p. 1219.
- Cleat, Traction-wheel. F. I. and B. P. Remy and A. Berger. No. 1,140,067; May 13; Gaz. vol. 214; p. 901.
- Cleat, Warp-line. J. Lucia. No. 1,141,807; June 1; Gaz. vol. 215; p. 252.
- Clevis. E. A. Allred. No. 1,148,275; July 27; Gaz. vol. 216; p. 1225.
- Clevis. M. Christopherson. No. 1,155,887; Oct. 5; Gaz. vol. 219; p. 196.
- Clevis. H. Clark. No. 1,163,215; Dec. 7; Gaz. vol. 221; p. 168.
- Clevis. J. W. Gibbs. No. 1,126,747; Feb. 2; Gaz. vol. 211; p. 29.
- Clevis. J. W. Hartley. No. 1,138,867; May 11; Gaz. vol. 214; p. 441.
- Clevis attachment for draft-eveners. J. P. Cormode. No. 1,142,148; June 8; Gaz. vol. 215; p. 410.
- Clevis, Combination-. E. Jones and E. J. Olson. No. 1,124,028; Jan. 5; Gaz. vol. 210; p. 282.
- Clevis construction. O. H. Eddy. No. 1,126,427; Jan. 26; Gaz. vol. 210; p. 1254.
- Clevis link connection. C. S. Pelton. No. 1,142,979; June 15; Gaz. vol. 215; p. 740.
- Clicking-die. T. Lund. No. 1,124,929; Jan. 12; Gaz. vol. 210; p. 650.
- Clicking-machine. F. X. Brodeur. No. 1,161,023; Nov. 23; Gaz. vol. 220; p. 1051.
- Clicking-machine. H. H. Eaton. No. 1,131,686; Mar. 16; Gaz. vol. 212; p. 709.
- Climber, Stack-. C. Stoolfire. No. 1,153,583; Sept. 14; Gaz. vol. 218; p. 471.
- Climbing device. R. Laborda. No. 1,148,457; July 27; Gaz. vol. 216; p. 1287.
- Climbing device, Hill-. J. Romanczak. No. 1,154,657; Sept. 28; Gaz. vol. 218; p. 905.
- Clip: See—
- Axle-clip. Paper-binding clip.
 - Bar-clip. Pen-clip.
 - Binder spring-clip. Pen and pencil clip.
 - Binding-clip. Pen or pencil clip.
 - Brake-band clip. Plow-beam clip.
 - Cartridge-loading clip. Pocket-clip.
 - Clothes-line clip. Reinforcing-rod clip.
 - Collar-clip. Reinforcing-rod clip.
 - Corner-bead clip. Spool-clip.
 - Doubletree-clip. Stentering-machine clip.
 - Fastening-clip. Surgical clip.
 - Fuse-clip. Tentering-machine clip.
 - Harrow-tooth clip. Terminal clip.
 - Locking-clip. Ticket-clip.
 - Necktie-clip. Whiffletree-clip.
 - Paper-clip.
- Clip. R. P. Barbour. No. 1,155,637; Oct. 5; Gaz. vol. 219; p. 108.
- Clip. W. Callaway. No. 1,135,353; Apr. 13; Gaz. vol. 213; p. 493.
- Clip. F. S. Rickerd. No. 1,141,145; June 1; Gaz. vol. 215; p. 19.
- Clip. W. Rodeck. No. 1,153,135; Sept. 7; Gaz. vol. 218; p. 271.
- Clip. J. J. Shuey. No. 1,148,934; Aug. 3; Gaz. vol. 217; p. 159.
- Clip-board shield. J. A. Lee. No. 1,133,979; Mar. 30; Gaz. vol. 212; p. 1618.
- Clip device. J. G. Peterson. No. 1,148,044; July 27; Gaz. vol. 216; p. 1142.
- Clip for developing-trays. F. W. Quidas. No. 1,125,092; Jan. 19; Gaz. vol. 210; p. 744.

- Clipper: *See*—
Hedge-clipper.
- Clipper, C. O. Rongstad. No. 1,161,342; Nov. 23; Gaz. vol. 220; p. 1166.
- Clipper, Hand-. L. H. La Chance. No. 1,164,532; Dec. 14; Gaz. vol. 221; p. 675.
- Clippers or dividers. F. I. Blake and M. D. Reldy. No. 1,135,095; Apr. 13; Gaz. vol. 213; p. 406.
- Clipping or shearing apparatus. E. H. Day. No. 1,128,765; Feb. 16; Gaz. vol. 211; p. 822.
- Clock. W. H. Thompson. No. 1,148,727; Aug. 3; Gaz. vol. 217; p. 88.
- Clock. W. H. Thompson. No. 1,148,728; Aug. 3; Gaz. vol. 217; p. 88.
- Clock. W. H. Thompson. No. 1,154,076; Sept. 21; Gaz. vol. 218; p. 677.
- Clock. L. F. Viner. No. 1,135,228; Apr. 13; Gaz. vol. 213; p. 449.
- Clock. F. Wehinger. No. 1,127,134; Feb. 2; Gaz. vol. 211; p. 166.
- Clock, Advertising-. H. Miller. No. 1,137,512; Apr. 27; Gaz. vol. 213; p. 1338.
- Clock, Alarm-. M. H. Kern. No. 1,148,969; Aug. 3; Gaz. vol. 217; p. 172.
- Clock, Alarm-. W. E. Porter and F. S. Cornwell. No. 1,156,554; Oct. 12; Gaz. vol. 219; p. 453.
- Clock, Alarm-. E. W. Weinmann. No. 1,126,599; Jan. 26; Gaz. vol. 210; p. 1319.
- Clock and other electrically-driven running mechanism. Electrically-driven. R. M. Lowne. No. 1,136,350; Apr. 20; Gaz. vol. 213; p. 884.
- Clock and savings-bank. Coin-controlled. J. Granz. No. 1,149,130; Aug. 3; Gaz. vol. 217; p. 225.
- Clock apparatus, Program-. F. F. Landis. No. 1,130,091; Mar. 2; Gaz. vol. 212; p. 87.
- Clock attachment. J. R. Moore. No. 1,142,604; June 8; Gaz. vol. 215; p. 570.
- Clock attachment, Alarm-. D. H. and T. H. Tillery. No. 1,159,622; Nov. 9; Gaz. vol. 220; p. 457.
- Clock, Automobile-. R. S. James. No. 1,158,502; Nov. 2; Gaz. vol. 220; p. 32.
- Clock, Calendar-. U. S. Hoitinga. No. 1,153,492; Sept. 14; Gaz. vol. 218; p. 438.
- Clock, Calendar-. O. M. Humphreys. No. 1,160,898; Nov. 16; Gaz. vol. 220; p. 961.
- Clock dial and case. K. Fukami. No. 1,136,520; Apr. 20; Gaz. vol. 213; p. 947.
- Clock-dial-moving mechanism. J. M. Blanchard. No. 1,137,182; Apr. 27; Gaz. vol. 213; p. 1219.
- Clock, Display or advertising. W. Swank. No. 1,160,461; Nov. 16; Gaz. vol. 220; p. 805.
- Clock, Eight-day alarm-. W. E. Porter. No. 1,156,552; Oct. 12; Gaz. vol. 219; p. 452.
- Clock, Eight-day nickel alarm-. F. X. Wehrle. No. 1,128,738; Feb. 16; Gaz. vol. 211; p. 813.
- Clock, Electric. F. Hardisty. No. 1,164,511; Dec. 14; Gaz. vol. 221; p. 667.
- Clock, Electric. F. F. Landis. No. 1,130,092; Mar. 2; Gaz. vol. 212; p. 87.
- Clock, Electric. W. H. Thompson. No. 1,150,979; Aug. 24; Gaz. vol. 217; p. 1106.
- Clock, Electric automobile-. W. H. Thompson. No. 1,160,466; Nov. 16; Gaz. vol. 220; p. 806.
- Clock, Electric illuminating alarm-. P. A. Huddleston. No. 1,133,562; Mar. 30; Gaz. vol. 212; p. 1473.
- Clock, Electric pendulum. A. Jabs. No. 1,132,012. Mar. 16; Gaz. vol. 212; p. 827.
- Clock, Electrically-driven. T. Rushton. No. 1,138,979; May 11; Gaz. vol. 214; p. 480.
- Clock, Illuminated. H. Kienzie. No. 1,143,632; June 22; Gaz. vol. 215; p. 992.
- Clock, Master-. W. F. Straub and A. A. Radtke. No. 1,164,557; Dec. 14; Gaz. vol. 221; p. 682.
- Clock mechanism. W. J. Herschede. No. 1,126,214; Jan. 26; Gaz. vol. 210; p. 1180.
- Clock mechanism. H. E. Warren. No. 1,160,346; Nov. 16; Gaz. vol. 220; p. 766.
- Clock mechanism, Time-. A. L. Sohm. No. 1,138,989; May 11; Gaz. vol. 214; p. 483.
- Clock-mounting. O. Ohlson. No. 1,145,698; July 6; Gaz. vol. 216; p. 253.
- Clock-movement. J. Lemire. No. 1,159,508; Nov. 9; Gaz. vol. 220; p. 415.
- Clock movement, Lever or marine strike. W. E. Porter. No. 1,149,683; Aug. 10; Gaz. vol. 217; p. 532.
- Clock-movement, Secondary. F. S. Atkinson. No. 1,141,752; June 1; Gaz. vol. 215; p. 234.
- Clock, Program-. C. O. Heon. No. 1,136,602; Apr. 20; Gaz. vol. 213; p. 975.
- Clock, Range-. A. H. Pollen and H. Isherwood. No. 1,162,510; Nov. 30; Gaz. vol. 220; p. 1618.
- Clock, Range-. A. H. Pollen and H. Isherwood. No. 1,162,511; Nov. 30; Gaz. vol. 220; p. 1619.
- Clock regulator, Marine-. W. E. Porter. No. 1,159,081; Nov. 2; Gaz. vol. 220; p. 231.
- Clock, Rim-winding. W. E. Porter. No. 1,156,553; Aug. 12; Gaz. vol. 219; p. 453.
- Clock, Self-winding. G. H. Myrick. No. 1,140,477; May 25; Gaz. vol. 214; p. 1079.
- Clock, Self-winding electric. U. L. Sundblad. No. 1,143,664; June 22; Gaz. vol. 215; p. 1003.
- Clock, Strike and chime. F. Wehinger. No. 1,128,737; Feb. 16; Gaz. vol. 211; p. 812.
- Clock striking apparatus. C. J. Rasmussen. No. 1,129,728; Feb. 23; Gaz. vol. 211; p. 1193.
- Clock, Striking, lever or marine. W. E. Porter. No. 1,139,369; May 11; Gaz. vol. 214; p. 616.
- Clock striking mechanism. H. J. Doolittle and O. W. Johnson. No. 1,142,943; June 15; Gaz. vol. 215; p. 727.
- Clock-support. C. S. Coolidge. No. 1,158,448; Nov. 2; Gaz. vol. 220; p. 13.
- Clock system, Electric-. L. J. Aron. No. 1,144,885; June 29; Gaz. vol. 215; p. 1455.
- Clock, Watchman's recording-. F. P. Fowler. No. 1,141,244; June 1; Gaz. vol. 215; p. 64.
- Clock winding and setting mechanism. S. Aronson. No. 1,153,533; Sept. 14; Gaz. vol. 218; p. 454.
- Clocks, Automatic spring-winding mechanism for. E. E. Wilkinson and S. Aronson. No. 1,125,617; Jan. 19; Gaz. vol. 210; p. 931.
- Clocks by Hertzian waves, Means for regulating. G. A. Goodson. No. 1,124,129; Jan. 5; Gaz. vol. 210; p. 316.
- Clocks, Calendar attachment for. W. W. Bass. No. 1,139,474; May 18; Gaz. vol. 214; p. 690.
- Clocks, Circuit-closer for electric. O. M. Todd. No. 1,162,263; Nov. 30; Gaz. vol. 220; p. 1534.
- Clocks, Locking device for dash-. T. B. Stephenson. No. 1,137,032; Apr. 27; Gaz. vol. 213; p. 1165.
- Clocks, Locking device for dash-. G. W. Whittemore and J. H. Warner. No. 1,158,611; Nov. 2; Gaz. vol. 220; p. 71.
- Clocks or similar mechanism, Electric apparatus for driving. H. E. Warren. No. 1,144,973; June 29; Gaz. vol. 215; p. 1483.
- Clocks, Phonograph attachment for. J. H. Pearson. No. 1,131,001; Mar. 9; Gaz. vol. 212; p. 437.
- Clocks, Winding-switch for self-winding. E. A. Hummel. No. 1,157,782; Oct. 26; Gaz. vol. 219; p. 975.
- Clockwork-escapement, especially applicable to mechanical time-fuses. H. Prahl. No. 1,148,402; July 27; Gaz. vol. 216; p. 1269.
- Clog, Dancing-. C. D. Neely. No. 1,138,684; May 11; Gaz. vol. 214; p. 375.
- Closet: *See*—
Portable closet. Seat-controlled closet.
Sanitary closet. Water-closet.
- Closet. C. C. Abbott and L. Hale. No. 1,124,098; Jan. 5; Gaz. vol. 210; p. 306.
- Closet. P. G. Emery. No. 1,148,668; Aug. 3; Gaz. vol. 217; p. 67.
- Closet. A. McGary. No. 1,149,529; Aug. 10; Gaz. vol. 217; p. 474.
- Closet attachment. E. E. Duff. No. 1,137,196; Apr. 27; Gaz. vol. 213; p. 1224.
- Closet attachment. J. Palmer. No. 1,150,301; Aug. 17; Gaz. vol. 217; p. 814.
- Closet attachment. L. B. Williams. No. 1,124,569; Jan. 12; Gaz. vol. 210; p. 523.
- Closet-bowl, Siphon. C. H. Muckenhirn. No. 1,132,866; Mar. 23; Gaz. vol. 212; p. 1188.
- Closet-bowl-supporting means. C. H. Muckenhirn. No. 1,165,016; Dec. 21; Gaz. vol. 221; p. 883.
- Closet-flange. G. J. Klindt. No. 1,149,269; Aug. 10; Gaz. vol. 217; p. 381.
- Closet installation and fixture. W. M. Ward. No. 1,147,664; July 20; Gaz. vol. 216; p. 982.
- Closet-partition. J. McClelland. No. 1,161,780; Nov. 23; Gaz. vol. 220; p. 1317.
- Closet-seat. H. P. Cope. No. 1,164,927; Dec. 21; Gaz. vol. 221; p. 852.
- Closet-seat. L. M. Hooper. No. 1,163,149; Dec. 7; Gaz. vol. 221; p. 144.
- Closet-seat buffer, Pneumatic. T. J. Florey. No. 1,158,039; Oct. 26; Gaz. vol. 219; p. 1066.
- Closet-trap. W. W. Marsh. No. 1,144,488; June 29; Gaz. vol. 215; p. 1318.
- Closet-trap. W. W. Marsh. No. 1,163,099; Dec. 7; Gaz. vol. 221; p. 126.
- Closets, commodes, and the like, Device for automatically closing the cover of seats of. M. M. Marcuse. No. 1,134,755; Apr. 6; Gaz. vol. 213; p. 246.
- Closing-die. C. Sonneborn. No. 1,151,625; Aug. 31; Gaz. vol. 217; p. 1372.
- Closing-machine. W. C. Buhles. No. 1,150,992; Aug. 24; Gaz. vol. 217; p. 1110.
- Closure. F. H. Berold. No. 1,159,736; Nov. 9; Gaz. vol. 220; p. 498.
- Closure. W. Bohleber. No. 1,123,670; Jan. 5; Gaz. vol. 210; p. 162.
- Closure. J. V. Hull. No. 1,134,067; Mar. 30; Gaz. vol. 212; p. 1648.
- Closure. S. P. Stevenson. No. 1,146,112; July 13; Gaz. vol. 216; p. 417.
- Closure. H. E. Townsend. No. 1,159,624; Nov. 9; Gaz. vol. 220; p. 457.
- Closure. W. P. White. No. 1,134,069; Mar. 30; Gaz. vol. 212; p. 1649.
- Closure-disk-manufacturing machines, Attachment for. H. L. Compton. No. 1,160,693; Nov. 16; Gaz. vol. 220; p. 892.
- Closure, Friction-. J. M. Hotherhall. No. 1,162,694; Nov. 30; Gaz. vol. 220; p. 1676.

Alphabetical list of inventions—Continued.

- Closure-retaining device. L. S. Chadwick. No. 1,126,389; Jan. 26; Gaz. vol. 210; p. 1241.
- Closures, Making. N. M. La Porte. No. 1,149,200; Aug. 10; Gaz. vol. 217; p. 356.
- Closures, Means for shifting. A. S. Nichols. No. 1,138,137; May 4; Gaz. vol. 214; p. 147.
- Cloth, Apparatus for the treatment of. D. Gessner. No. 1,154,758; Sept. 28; Gaz. vol. 218; p. 939.
- Cloth-board with cushioning edges. W. T. Wilson. No. 1,138,434; May 4; Gaz. vol. 214; p. 251.
- Cloth-boards, Mechanism for making. A. M. Chaffee. No. 1,138,537; May 4; Gaz. vol. 214; p. 285.
- Cloth-clamp. J. T. Foster. No. 1,159,755; Nov. 9; Gaz. vol. 220; p. 505.
- Cloth-cutting machine. M. Arendt. No. 1,125,434; Jan. 19; Gaz. vol. 210; p. 867.
- Cloth-cutting machine. E. W. Bortman. No. 1,130,369; Mar. 2; Gaz. vol. 212; p. 183.
- Cloth-cutting machine. F. J. Clark. No. 1,133,839; Mar. 30; Gaz. vol. 212; p. 1573.
- Cloth-cutting machine. J. B. Gury. No. 1,136,126; Apr. 20; Gaz. vol. 213; p. 804.
- Cloth-cutting machine. M. Siegel. No. 1,136,842; Apr. 20; Gaz. vol. 213; p. 1060.
- Cloth-cutting machine, Electric. N. Komow. No. 1,141,087; May 25; Gaz. vol. 214; p. 1289.
- Cloth-cutting machine for buttons. P. P. Moore. No. 1,151,032; Aug. 24; Gaz. vol. 217; p. 1124.
- Cloth-cutting machines, Grinder for. J. B. Gury. No. 1,150,265; Aug. 17; Gaz. vol. 217; p. 802.
- Cloth-cutting machines, Knife-guard for. M. Zawistowski, D. Perlman, and N. Komow. No. 1,147,690; July 20; Gaz. vol. 216; p. 990.
- Cloth-folding machine. C. A. Stewart. No. 1,135,630; Apr. 13; Gaz. vol. 213; p. 591.
- Cloth-handling apparatus. W. I. Lewis. No. 1,123,768; Jan. 5; Gaz. vol. 210; p. 195.
- Cloth or other material, Device for feeding liquid on the selvage of. A. M. Stevens. No. 1,159,729; Nov. 9; Gaz. vol. 220; p. 495.
- Cloth-piling machine. M. L. and C. M. Shapera. No. 1,131,647; Mar. 9; Gaz. vol. 212; p. 662.
- Cloth renapping and refinishing machine. E. J. Dunklee. No. 1,164,482; Dec. 14; Gaz. vol. 221; p. 656.
- Cloth-shearing machine. H. Haas. No. 1,147,088; July 20; Gaz. vol. 216; p. 779.
- Cloth-shearing machine. C. G. Richardson. No. 1,152,048; Aug. 31; Gaz. vol. 217; p. 1518.
- Cloth stretching and rolling machine. C. G. Richardson. No. 1,132,033; Mar. 16; Gaz. vol. 212; p. 834.
- Cloth-winding machine. D. Gessner. No. 1,139,513; May 18; Gaz. vol. 214; p. 704.
- Clothes-boller. W. Lindeberg. No. 1,154,786; Sept. 28; Gaz. vol. 218; p. 948.
- Clothes-clamp. R. V. Lee. No. 1,136,244; Apr. 20; Gaz. vol. 213; p. 847.
- Clothes-dampening machine. J. E. Kelso and G. Binder. No. 1,129,990; Mar. 2; Gaz. vol. 212; p. 53.
- Clothes-dampening machine. J. J. Seltenreich. No. 1,134,702; Apr. 6; Gaz. vol. 213; p. 226.
- Clothes-drier. J. Hébert and J. S. H. Gagnon. No. 1,134,850; Apr. 6; Gaz. vol. 213; p. 276.
- Clothes-drier. R. N. Holmes. No. 1,149,766; Aug. 10; Gaz. vol. 217; p. 561.
- Clothes-drier. F. T. Johnson. No. 1,128,318; Feb. 16; Gaz. vol. 211; p. 670.
- Clothes-drier. A. Kinzelt. No. 1,142,888; June 15; Gaz. vol. 215; p. 708.
- Clothes-drier. R. A. Schimanski. No. 1,126,575; Jan. 26; Gaz. vol. 210; p. 1311.
- Clothes-drier. H. Stevens. No. 1,159,606; Nov. 9; Gaz. vol. 220; p. 451.
- Clothes-drier. M. W. Walker. No. 1,139,605; May 15; Gaz. vol. 214; p. 735.
- Clothes-drier. A. Wayditch. No. 1,154,080; Sept. 21; Gaz. vol. 218; p. 678.
- Clothes-drier or the like. J. B. Clay. No. 1,163,639; Dec. 14; Gaz. vol. 221; p. 360.
- Clothes-drier, Revolving. B. E. Harreld. No. 1,159,217; Nov. 2; Gaz. vol. 220; p. 281.
- Clothes-drying rack. A. M. and R. J. Springer. No. 1,159,727; Nov. 9; Gaz. vol. 220; p. 494.
- Clothes-hanger. E. J. Deragon. No. 1,153,677; Sept. 14; Gaz. vol. 218; p. 503.
- Clothes-hanger. G. F. Peter. No. 1,144,058; June 22; Gaz. vol. 215; p. 1140.
- Clothes-hangers, Machine for making. F. M. Rauscher and L. Rexroth, Jr. No. 1,127,515; Feb. 9; Gaz. vol. 211; p. 339.
- Clothes-hook. A. K. Budd. No. 1,149,723; Aug. 10; Gaz. vol. 217; p. 545.
- Clothes-lifter. J. E. De Noon. No. 1,134,825; Apr. 6; Gaz. vol. 213; p. 268.
- Clothes-lifter. O. Ojala. No. 1,147,425; July 20; Gaz. vol. 216; p. 898.
- Clothes-line. H. Amacher. No. 1,148,818; Aug. 3; Gaz. vol. 217; p. 120.
- Clothes-line. F. S. Hetrick. No. 1,152,948; Sept. 7; Gaz. vol. 218; p. 209.
- Clothes-line. T. C. Kopetkee. No. 1,165,517; Dec. 28; Gaz. vol. 221; p. 1096.
- Clothes-line. T. Reilly. No. 1,151,043; Aug. 24; Gaz. vol. 217; p. 1128.
- Clothes-line apparatus. J. T. McDonough. No. 1,154,524; Sept. 21; Gaz. vol. 218; p. 829.
- Clothes-line attachment. W. F. Sholl. No. 1,164,414; Dec. 14; Gaz. vol. 221; p. 633.
- Clothes-line clip. E. W. Salkeld. No. 1,139,908; May 18; Gaz. vol. 214; p. 843.
- Clothes-line clip, Metallic. N. B. Winter. No. 1,157,747; Oct. 26; Gaz. vol. 219; p. 965.
- Clothes-line connector. F. Vancura. No. 1,164,559; Dec. 14; Gaz. vol. 221; p. 683.
- Clothes-line handling and measuring machine. J. A. Johnson. No. 1,161,687; Nov. 23; Gaz. vol. 220; p. 1286.
- Clothes-line hanger. F. Weinberg. No. 1,146,981; July 20; Gaz. vol. 216; p. 743.
- Clothes-line holder. J. Baemie. No. 1,140,787; May 25; Gaz. vol. 214; p. 1183.
- Clothes-line holder. H. H. Freeman. No. 1,162,763; Dec. 7; Gaz. vol. 221; p. 11.
- Clothes-line holder. C. B. Hayward. No. 1,149,757; Aug. 10; Gaz. vol. 217; p. 558.
- Clothes-line holder. T. H. Seifert. No. 1,137,796; May 4; Gaz. vol. 214; p. 25.
- Clothes-line pole, Adjustable. L. L. Street. No. 1,164,138; Dec. 14; Gaz. vol. 221; p. 538.
- Clothes-line prop. C. O. Lautz. No. 1,151,695; Aug. 31; Gaz. vol. 217; p. 1395.
- Clothes-line prop. S. G. Leyson. No. 1,154,704; Sept. 28; Gaz. vol. 218; p. 920.
- Clothes-line prop. A. J. Rhoads. No. 1,163,855; Dec. 14; Gaz. vol. 221; p. 439.
- Clothes-line prop. G. A. Taylor. No. 1,166,276; Dec. 28; Gaz. vol. 221; p. 1367.
- Clothes-line pulley. C. L. Blodgett. No. 1,157,143; Oct. 19; Gaz. vol. 219; p. 690.
- Clothes-line pulley. I. Johnson. No. 1,143,910; June 22; Gaz. vol. 215; p. 1086.
- Clothes-line reel. L. Bordwell. No. 1,147,599; July 20; Gaz. vol. 216; p. 958.
- Clothes-line reel. R. R. Lane. No. 1,137,217; Apr. 27; Gaz. vol. 213; p. 1232.
- Clothes-line reel. T. Schwalbach. No. 1,128,063; Feb. 9; Gaz. vol. 211; p. 531.
- Clothes-line reel and stretcher. D. T. Timberlake. No. 1,138,810; May 11; Gaz. vol. 214; p. 421.
- Clothes-line stretcher. S. N. Bunnell. No. 1,158,172; Oct. 26; Gaz. vol. 219; p. 1114.
- Clothes-line stretcher. M. Cahill. No. 1,136,096; Apr. 20; Gaz. vol. 213; p. 794.
- Clothes-line support. S. A. Boyd, Jr. No. 1,166,321; Dec. 28; Gaz. vol. 221; p. 1383.
- Clothes-line support. F. S. Budaji. No. 1,157,502; Oct. 19; Gaz. vol. 219; p. 817.
- Clothes-line support. W. J. Daly and B. Wimmer. No. 1,130,713; Mar. 9; Gaz. vol. 212; p. 339.
- Clothes-line support. D. Gamble. No. 1,137,395; Apr. 27; Gaz. vol. 213; p. 1298.
- Clothes-line support. G. F. Hoos. No. 1,166,212; Dec. 28; Gaz. vol. 221; p. 1344.
- Clothes-line support. J. Kelomasz. No. 1,128,458; Feb. 16; Gaz. vol. 211; p. 717.
- Clothes-line support. C. Koffer. No. 1,140,986; May 25; Gaz. vol. 214; p. 1256.
- Clothes-line support. J. T. Pilkington. No. 1,130,534; Mar. 2; Gaz. vol. 212; p. 244.
- Clothes-line support. L. F. Renault and C. J. Drago. No. 1,165,125; Dec. 21; Gaz. vol. 221; p. 923.
- Clothes-line support. A. Schultheis. No. 1,149,863; Aug. 10; Gaz. vol. 217; p. 596.
- Clothes-line support. C. F. Smith. No. 1,159,284; Nov. 2; Gaz. vol. 220; p. 303.
- Clothes-line support. M. Soldier. No. 1,130,033; Mar. 2; Gaz. vol. 212; p. 67.
- Clothes-line support. M. Stasaitis. No. 1,127,693; Feb. 9; Gaz. vol. 211; p. 397.
- Clothes-line support. W. E. Toelle. No. 1,150,646; Aug. 17; Gaz. vol. 217; p. 934.
- Clothes-line support. E. W. Walsh. No. 1,127,127; Feb. 2; Gaz. vol. 211; p. 164.
- Clothes-line support. J. O. Young. No. 1,145,536; July 6; Gaz. vol. 216; p. 196.
- Clothes-line support and adjuster. F. Luersen. No. 1,137,505; Apr. 27; Gaz. vol. 213; p. 1336.
- Clothes-line support, Swinging. F. M. Borja. No. 1,149,894; Aug. 10; Gaz. vol. 217; p. 607.
- Clothes-lines and hammocks, Support for. N. V. Dudley. No. 1,159,192; Nov. 2; Gaz. vol. 220; p. 273.
- Clothes-pin. T. A. Bourgeois. No. 1,136,768; Apr. 20; Gaz. vol. 213; p. 1034.
- Clothes-pin. C. S. Butterfield. No. 1,147,305; July 20; Gaz. vol. 216; p. 854.
- Clothes-pin. E. N. De Forge. No. 1,162,578; Nov. 30; Gaz. vol. 22; p. 1640.
- Clothes-pin. A. Dewinsky. No. 1,132,170; Mar. 16; Gaz. vol. 212; p. 884.
- Clothes-pin. A. J. Jeffery. No. 1,146,799; July 20; Gaz. vol. 216; p. 678.
- Clothes-pin. I. N. Kauffman. No. 1,146,713; July 13; Gaz. vol. 216; p. 628.
- Clothes-pin. F. Luersen. No. 1,155,254; Sept. 28; Gaz. vol. 218; p. 1107.

Alphabetical list of inventions—Continued.

- Clothes-pin. J. J. Plaster. No. 1,145,032; July 6; Gaz. vol. 216; p. 20.
- Clothes-pin. G. F. Ramm. No. 1,127,676; Feb. 9; Gaz. vol. 211; p. 392.
- Clothes-pin. A. Schuch. No. 1,150,229; Aug. 17; Gaz. vol. 217; p. 789.
- Clothes-pin. R. J. Schulz. No. 1,159,804; Nov. 9; Gaz. vol. 220; p. 523.
- Clothes-pin. H. H. Sell. No. 1,141,728; June 1; Gaz. vol. 215; p. 227.
- Clothes-pin. A. C. Smithson. No. 1,161,352; Nov. 23; Gaz. vol. 220; p. 1170.
- Clothes-pin. A. Wild. No. 1,134,710; Apr. 6; Gaz. vol. 213; p. 229.
- Clothes-pin, Wire. B. R. B. De Crevecoeur. No. 1,162,577; Nov. 30; Gaz. vol. 220; p. 1639.
- Clothes-pin, Wire. T. M. Price and J. W. Tillman. No. 1,156,810; Oct. 12; Gaz. vol. 219; p. 541.
- Clothes-pounder. W. C. Ellis. No. 1,127,606; Feb. 9; Gaz. vol. 211; p. 369.
- Clothes-pounder. A. J. Ruppert. No. 1,152,438; Sept. 7; Gaz. vol. 218; p. 20.
- Clothes-pressing machine. C. D. Lichtenstein. No. 1,129,408; Feb. 23; Gaz. vol. 211; p. 1085.
- Clothes-pressing machine. T. D. Palmer. No. 1,141,900; June 1; Gaz. vol. 215; p. 286.
- Clothes-pressing machine. T. D. Palmer. No. 1,141,901; June 1; Gaz. vol. 215; p. 286.
- Clothes-prop line-fastener. H. M. Krauser. No. 1,149,923; Aug. 10; Gaz. vol. 217; p. 618.
- Clothes-protector. A. B. Krebs. No. 1,136,346; Apr. 20; Gaz. vol. 213; p. 883.
- Clothes-rack. J. L. Clarke. No. 1,123,247; Jan. 5; Gaz. vol. 210; p. 15.
- Clothes-rack. C. Danielson. No. 1,126,717; Feb. 2; Gaz. vol. 211; p. 18.
- Clothes-rack. E. A. Foster. No. 1,157,858; Oct. 26; Gaz. vol. 219; p. 1003.
- Clothes-rack. W. T. Maxwell. No. 1,156,699; Oct. 12; Gaz. vol. 219; p. 504.
- Clothes-rack. J. R. Naylor. No. 1,125,372; Jan. 19; Gaz. vol. 210; p. 846.
- Clothes-rack. R. V. D. Stoutenburgh. No. 1,155,967; Oct. 5; Gaz. vol. 219; p. 223.
- Clothes-rack. M. W. Yela. No. 1,154,083; Sept. 21; Gaz. vol. 218; p. 679.
- Clothes rack or drier. O. E. Enell. No. 1,150,933; Aug. 24; Gaz. vol. 217; p. 1090.
- Clothes-reel. J. T. Harbin. No. 1,156,286; Oct. 12; Gaz. vol. 219; p. 357.
- Clothes-reel, Portable. J. T. Pilkington. No. 1,128,899; Feb. 16; Gaz. vol. 211; p. 871.
- Clothes-sprinkler. L. D. Carter. No. 1,151,244; Aug. 24; Gaz. vol. 217; p. 1197.
- Clothes-stick. A. E. Hamrin. No. 1,128,245; Feb. 9; Gaz. vol. 211; p. 593.
- Clothes-stick. A. S. Taylor. No. 1,156,112; Oct. 12; Gaz. vol. 219; p. 300.
- Clothes-washer. J. D. Austin. No. 1,160,361; Nov. 16; Gaz. vol. 220; p. 771.
- Clothes-washer. L. W. Serrell. No. 1,132,982; Mar. 23; Gaz. vol. 212; p. 1231.
- Clothes-wringer. A. W. Altorfer. No. 1,158,099; Oct. 26; Gaz. vol. 219; p. 1088.
- Clothes-wringer. A. J. Fisher. No. 1,136,221; Apr. 20; Gaz. vol. 213; p. 839.
- Clothes-wringer. W. J. Kelly. No. 1,162,492; Nov. 30; Gaz. vol. 220; p. 1612.
- Clothes-wringer. A. E. Schuffenhauer. No. 1,162,404; Nov. 30; Gaz. vol. 220; p. 1581.
- Clothes-wringer. S. T. White. No. 1,148,133; July 27; Gaz. vol. 216; p. 1175.
- Clothes-wringer, Centrifugal. P. F. Bubb. No. 1,145,291; July 6; Gaz. vol. 216; p. 110.
- Clothes-wringer, Safety. N. B. Hutton. No. 1,139,122; May 11; Gaz. vol. 214; p. 532.
- Clothing-support, Extensible. C. D. Wilt. No. 1,131,765; Mar. 16; Gaz. vol. 212; p. 736.
- Clover-huller. J. C. Kistler. No. 1,123,312; Jan. 5; Gaz. vol. 210; p. 39.
- Club. E. E. Wefen. No. 1,165,216; Dec. 21; Gaz. vol. 221; p. 955.
- Club and firearm, Combined. J. C. Tomaszewski. No. 1,160,343; Nov. 16; Gaz. vol. 220; p. 764.
- Clutch. T. Bickford. No. 1,163,803; Dec. 14; Gaz. vol. 221; p. 421.
- Clutch. A. Bonom. No. 1,129,784; Feb. 23; Gaz. vol. 211; p. 1213.
- Clutch. A. P. Brush. No. 1,158,629; Nov. 2; Gaz. vol. 220; p. 78.
- Clutch. L. J. Campbell. No. 1,125,646; Jan. 19; Gaz. vol. 210; p. 941.
- Clutch. J. W. Crowley. No. 1,165,392; Dec. 28; Gaz. vol. 221; p. 1053.
- Clutch. F. Engelhardt. No. 1,125,278; Jan. 19; Gaz. vol. 210; p. 812.
- Clutch. J. D. Ens. No. 1,140,367; May 25; Gaz. vol. 214; p. 1038.
- Clutch. F. E. Fisher. No. 1,159,753; Nov. 9; Gaz. vol. 220; p. 504.
- Clutch. P. R. Hahnemann. No. 1,126,452; Jan. 26; Gaz. vol. 210; p. 1264.
- Clutch. S. G. Hardy. No. 1,163,085; Dec. 7; Gaz. vol. 221; p. 122.
- Clutch. A. L. Herkenhoff. No. 1,130,972; Mar. 9; Gaz. vol. 212; p. 427.
- Clutch. J. Hribar. No. 1,139,977; May 18; Gaz. vol. 214; p. 867.
- Clutch. M. B. Ireland. (Reissue.) No. 13,893; Mar. 23; Gaz. vol. 212; p. 1325.
- Clutch. C. Kachel. No. 1,153,691; Sept. 14; Gaz. vol. 218; p. 507.
- Clutch. J. J. Kwis. No. 1,164,531; Dec. 14; Gaz. vol. 221; p. 674.
- Clutch. A. Lanzdorf. No. 1,157,789; Oct. 26; Gaz. vol. 219; p. 978.
- Clutch. D. F. Lepley. No. 1,161,393; Nov. 23; Gaz. vol. 220; p. 1185.
- Clutch. J. Machek. No. 1,161,943; Nov. 30; Gaz. vol. 220; p. 1422.
- Clutch. H. H. Marker. No. 1,136,025; Apr. 20; Gaz. vol. 213; p. 771.
- Clutch. J. F. Metten. No. 1,157,793; Oct. 26; Gaz. vol. 219; p. 980.
- Clutch. O. Miller. No. 1,132,958; Mar. 23; Gaz. vol. 212; p. 1221.
- Clutch. C. B. Mitchell. No. 1,141,648; June 1; Gaz. vol. 215; p. 200.
- Clutch. H. F. Molander. No. 1,161,325; Nov. 23; Gaz. vol. 220; p. 1160.
- Clutch. G. W. Moore. No. 1,143,298; June 15; Gaz. vol. 215; p. 852.
- Clutch. O. W. Mueller. No. 1,141,137; June 1; Gaz. vol. 215; p. 16.
- Clutch. W. H. Mursch. No. 1,134,283; Apr. 6; Gaz. vol. 213; p. 73.
- Clutch. F. V. Peterson. No. 1,125,708; Jan. 19; Gaz. vol. 210; p. 966.
- Clutch. O. G. Pfeiffer. No. 1,153,853; Sept. 14; Gaz. vol. 218; p. 566.
- Clutch. O. G. Pfeiffer. No. 1,153,854; Sept. 14; Gaz. vol. 218; p. 566.
- Clutch. C. F. Pinkham. No. 1,160,529; Nov. 16; Gaz. vol. 220; p. 830.
- Clutch. J. A. Randall. No. 1,162,190; Nov. 30; Gaz. vol. 220; p. 1508.
- Clutch. C. C. Rich. No. 1,156,819; Oct. 12; Gaz. vol. 219; p. 544.
- Clutch. J. R. Rogers. No. 1,132,216; Mar. 16; Gaz. vol. 212; p. 901.
- Clutch. G. J. Scofield. No. 1,134,699; Apr. 6; Gaz. vol. 213; p. 225.
- Clutch. G. J. Scofield. No. 1,143,076; June 15; Gaz. vol. 215; p. 774.
- Clutch. A. O. Slentz. No. 1,153,831; Sept. 14; Gaz. vol. 218; p. 558.
- Clutch. C. E. Swenson. No. 1,162,115; Nov. 30; Gaz. vol. 220; p. 1483.
- Clutch. C. H. Thayer. No. 1,133,893; Mar. 30; Gaz. vol. 212; p. 1592.
- Clutch. J. Weber. No. 1,150,237; Aug. 17; Gaz. vol. 217; p. 791.
- Clutch. A. White. No. 1,163,386; Dec. 7; Gaz. vol. 221; p. 227.
- Clutch. J. E. Willcox. No. 1,131,641; Mar. 9; Gaz. vol. 212; p. 660.
- Clutch and brake mechanism. C. W. Parker. No. 1,126,848; Feb. 2; Gaz. vol. 211; p. 66.
- Clutch and clutch-actuating means. C. F. Rigby. No. 1,142,120; June 8; Gaz. vol. 215; p. 401.
- Clutch and coupling, Friction. L. Taylor. No. 1,142,541; June 8; Gaz. vol. 215; p. 549.
- Clutch and guard, Driving-. E. H. Ahara. No. 1,130,237; Mar. 2; Gaz. vol. 212; p. 137.
- Clutch and means for operating same, Friction-. E. G. Turner. No. 1,141,670; June 1; Gaz. vol. 215; p. 207.
- Clutch and regulating mechanism. E. W. Woolley. No. 1,157,275; Oct. 19; Gaz. vol. 219; p. 738.
- Clutch and stop-motion, Combined. F. Zaleski. No. 1,164,901; Dec. 21; Gaz. vol. 221; p. 843.
- Clutch, Automatic. S. Smith. No. 1,147,126; July 20; Gaz. vol. 216; p. 792.
- Clutch, Automatic. A. Sundh. No. 1,132,746; Mar. 23; Gaz. vol. 212; p. 1143.
- Clutch, Centrifugal. A. H. Bakken. No. 1,135,092; Apr. 13; Gaz. vol. 213; p. 405.
- Clutch-clamp. F. Starr. No. 1,139,595; May 18; Gaz. vol. 214; p. 731.
- Clutch combination, Starting, stopping, and power-controlling. J. C. Kromer. No. 1,125,695; Jan. 19; Gaz. vol. 210; p. 960.
- Clutch-control and gear-shifting apparatus. A. M. Batsner. No. 1,127,581; Feb. 9; Gaz. vol. 211; p. 360.
- Clutch-control, Pneumatic. R. W. Welty. No. 1,133,206; Mar. 23; Gaz. vol. 212; p. 1311.
- Clutch, Cushion positive. M. Breth. No. 1,126,374; Jan. 26; Gaz. vol. 210; p. 1236.
- Clutch device. V. De Marais. No. 1,155,220; Sept. 28; Gaz. vol. 218; p. 1096.
- Clutch device. C. H. Fox. No. 1,145,888; July 13; Gaz. vol. 216; p. 339.
- Clutch device. J. G. Heaslet. No. 1,166,205; Dec. 28; Gaz. vol. 221; p. 1341.

Alphabetical list of inventions—Continued.

- Clutch device. B. Holt. No. 1,154,395; Sept. 21; Gaz. vol. 218; p. 786.
- Clutch device. J. C. Moore. No. 1,154,196; Sept. 21; Gaz. vol. 218; p. 716.
- Clutch device for preventing reverse rotation. C. A. Lindstrom. No. 1,153,557; Sept. 14; Gaz. vol. 218; p. 463.
- Clutch device, Safety. E. E. Hannah. No. 1,153,782; Sept. 14; Gaz. vol. 218; p. 540.
- Clutch device, Shifting multiple-. A. Bailey. No. 1,136,922; Apr. 27; Gaz. vol. 213; p. 1125.
- Clutch, Differential. D. M. Lasley. No. 1,126,234; Jan. 26; Gaz. vol. 210; p. 1187.
- Clutch, Differential. D. M. Lasley. No. 1,128,465; Feb. 16; Gaz. vol. 211; p. 720.
- Clutch, Drill-bit. J. W. Roby. No. 1,142,460; June 8; Gaz. vol. 215; p. 521.
- Clutch, Driving-. H. Elliott. No. 1,143,371; June 15; Gaz. vol. 215; p. 879.
- Clutch, Dynamo-electric. W. Morrison. No. 1,126,061; Jan. 26; Gaz. vol. 210; p. 1123.
- Clutch-engaging device, Automatic automobile. C. F. Degen. No. 1,165,230; Dec. 21; Gaz. vol. 221; p. 960.
- Clutch, Fluid-. H. H. Benson and A. H. Asprooth. No. 1,145,464; July 6; Gaz. vol. 216; p. 172.
- Clutch, Fluid-. D. Lake and M. U. Heiberger. No. 1,144,214; June 22; Gaz. vol. 215; p. 1196.
- Clutch, Fluid-actuated. R. L. Hibbard. No. 1,135,525; Apr. 13; Gaz. vol. 213; p. 553.
- Clutch for die-presses, Automatic. H. C. H. Walsh. No. 1,133,344; Mar. 30; Gaz. vol. 212; p. 1395.
- Clutch for hoisting-engines. G. P. Wern. No. 1,137,939; May 4; Gaz. vol. 214; p. 75.
- Clutch for power-plow-lifting mechanism. W. L. Walton. No. 1,150,795; Aug. 17; Gaz. vol. 217; p. 984.
- Clutch for power-winch-. A. T. Prescott. No. 1,158,555; Nov. 2; Gaz. vol. 220; p. 52.
- Clutch for reversing-gearing. H. A. Tuttle. No. 1,140,346; May 18; Gaz. vol. 214; p. 996.
- Clutch for traction-mowers. C. F. Radatz. No. 1,148,623; Aug. 3; Gaz. vol. 217; p. 51.
- Clutch for winding-engines or other machines. W. F. Smeeth. No. 1,140,293; May 18; Gaz. vol. 214; p. 976.
- Clutch for winding-machines and the like. J. E. Windle. No. 1,128,565; Feb. 16; Gaz. vol. 211; p. 754.
- Clutch, Friction-. O. M. Alexander. No. 1,139,249; May 11; Gaz. vol. 214; p. 574.
- Clutch, Friction-. C. M. Allen. No. 1,137,944; May 4; Gaz. vol. 214; p. 77.
- Clutch, Friction-. M. Beck. No. 1,132,903; Mar. 23; Gaz. vol. 212; p. 1200.
- Clutch, Friction-. G. W. Borg. No. 1,131,769; Mar. 16; Gaz. vol. 212; p. 738.
- Clutch, Friction-. R. and J. Bridge and E. Bradshaw. No. 1,127,724; Feb. 9; Gaz. vol. 211; p. 411.
- Clutch, Friction-. L. H. Cobb. No. 1,146,403; July 13; Gaz. vol. 216; p. 519.
- Clutch, Friction-. J. F. and H. E. Dodge. No. 1,141,322; June 1; Gaz. vol. 215; p. 84.
- Clutch, Friction-. G. Fornaca. No. 1,138,099; May 4; Gaz. vol. 214; p. 133.
- Clutch, Friction-. I. L. Haines. No. 1,134,193; Apr. 6; Gaz. vol. 213; p. 40.
- Clutch, Friction-. J. M. Hewitt. No. 1,143,908; June 22; Gaz. vol. 215; p. 1086.
- Clutch, Friction-. A. Jaekel. No. 1,139,765; May 18; Gaz. vol. 214; p. 792.
- Clutch, Friction-. H. J. M. Johnson and A. G. Anderson. No. 1,161,314; Nov. 23; Gaz. vol. 220; p. 1156.
- Clutch, Friction-. F. R. Jones. No. 1,126,779; Feb. 2; Gaz. vol. 211; p. 40.
- Clutch, Friction-. F. R. Jones. No. 1,126,780; Feb. 2; Gaz. vol. 211; p. 41.
- Clutch, Friction-. C. B. King and J. W. Fellmeth. No. 1,128,006; Feb. 9; Gaz. vol. 211; p. 511.
- Clutch, Friction-. L. E. Lasure. No. 1,149,924; Aug. 10; Gaz. vol. 217; p. 618.
- Clutch, Friction-. C. A. Lawton. No. 1,147,104; July 20; Gaz. vol. 216; p. 785.
- Clutch, Friction-. N. Lombard. No. 1,153,635; Sept. 14; Gaz. vol. 218; p. 489.
- Clutch, Friction-. H. W. Ludlam. No. 1,166,379; Dec. 28; Gaz. vol. 221; p. 1404.
- Clutch, Friction-. A. Master. No. 1,157,408; Oct. 19; Gaz. vol. 219; p. 785.
- Clutch, Friction-. W. C. Meyer. No. 1,165,799; Dec. 28; Gaz. vol. 221; p. 1196.
- Clutch, Friction-. E. B. Parkhurst and L. W. Witry. No. 1,143,063; June 15; Gaz. vol. 215; p. 769.
- Clutch, Friction-. S. W. Rhoads. No. 1,156,555; Oct. 12; Gaz. vol. 219; p. 454.
- Clutch, Friction-. R. E. Rosewarne. No. 1,163,690; Dec. 14; Gaz. vol. 221; p. 379.
- Clutch, Friction-. W. H. Sears. No. 1,148,998; Aug. 3; Gaz. vol. 217; p. 181.
- Clutch, Friction-. M. C. Sharpnack. No. 1,154,891; Sept. 28; Gaz. vol. 218; p. 982.
- Clutch, Friction-. J. H. Stull. No. 1,156,445; Oct. 12; Gaz. vol. 219; p. 415.
- Clutch, Friction-. J. Swanda. No. 1,161,423; Nov. 23; Gaz. vol. 220; p. 1196.
- Clutch, Friction-band. S. C. Carter. No. 1,128,947; Feb. 16; Gaz. vol. 211; p. 889.
- Clutch, Friction-coil. E. J. Scott. No. 1,159,717; Nov. 9; Gaz. vol. 220; p. 490.
- Clutch, Frictional locking hydraulic. C. C. Rich. No. 1,136,168; Apr. 20; Gaz. vol. 213; p. 820.
- Clutch, Governor-controlled. C. P. and A. J. Strite. No. 1,126,124; Jan. 26; Gaz. vol. 210; p. 1146.
- Clutch, Magnetic. A. W. Whitcomb. No. 1,139,005; May 11; Gaz. vol. 214; p. 490.
- Clutch, Mechanical. F. A. Kemp and E. C. Reeder. No. 1,125,555; Jan. 19; Gaz. vol. 210; p. 908.
- Clutch, Mechanical. E. C. Reeder and F. A. Kemp. No. 1,125,595; Jan. 19; Gaz. vol. 210; p. 923.
- Clutch mechanism. V. G. Apple. No. 1,156,576; Oct. 12; Gaz. vol. 219; p. 461.
- Clutch mechanism. O. N. Baldwin. No. 1,130,788; Mar. 9; Gaz. vol. 212; p. 364.
- Clutch mechanism. J. W. Barnes. No. 1,151,079; Aug. 24; Gaz. vol. 217; p. 1139.
- Clutch mechanism. W. E. Broughton. No. 1,165,066; Dec. 21; Gaz. vol. 221; p. 900.
- Clutch mechanism. R. C. Caughey. No. 1,146,135; July 13; Gaz. vol. 216; p. 426.
- Clutch mechanism. J. J. Doidge. No. 1,140,885; May 25; Gaz. vol. 214; p. 1221.
- Clutch mechanism. W. T. A. Faulkner. No. 1,165,327; Dec. 21; Gaz. vol. 221; p. 990.
- Clutch mechanism. E. Gruenewald. No. 1,126,448; Jan. 26; Gaz. vol. 210; p. 1262.
- Clutch mechanism. B. M. W. Hanson. No. 1,140,326; May 18; Gaz. vol. 214; p. 989.
- Clutch mechanism. A. R. Havener. No. 1,165,407; Dec. 28; Gaz. vol. 221; p. 1059.
- Clutch mechanism. L. A. Kling. No. 1,163,415; Dec. 7; Gaz. vol. 221; p. 238.
- Clutch mechanism. H. Kuntzler. No. 1,151,803; Aug. 31; Gaz. vol. 217; p. 1434.
- Clutch mechanism. J. G. MacPherson. No. 1,131,401; Mar. 9; Gaz. vol. 212; p. 575.
- Clutch mechanism. C. W. Michael. No. 1,143,221; June 15; Gaz. vol. 215; p. 826.
- Clutch mechanism. C. Pearson. No. 1,163,170; Dec. 7; Gaz. vol. 221; p. 152.
- Clutch mechanism. E. D. Roberts. No. 1,164,398; Dec. 14; Gaz. vol. 221; p. 627.
- Clutch mechanism for grinders and choppers. H. L. Johnston. No. 1,156,904; Oct. 19; Gaz. vol. 219; p. 605.
- Clutch mechanism for motor-cycles. R. L. Bailey. No. 1,145,225; July 6; Gaz. vol. 216; p. 87.
- Clutch mechanism for motor haulage-vehicles. H. Bauchet. No. 1,153,014; Sept. 7; Gaz. vol. 218; p. 232.
- Clutch mechanism for planters. H. L. Dooley. No. 1,135,442; Apr. 13; Gaz. vol. 213; p. 525.
- Clutch mechanism for transmitting motion. M. P. Otto. No. 1,166,075; Dec. 28; Gaz. vol. 221; p. 1291.
- Clutch-operating mechanism. G. P. Wern. No. 1,143,673; June 22; Gaz. vol. 215; p. 1006.
- Clutch or like apparatus. R. Guillery. No. 1,159,663; Nov. 9; Gaz. vol. 220; p. 470.
- Clutch, Positive. G. A. Peterson. No. 1,139,443; May 11; Gaz. vol. 214; p. 643.
- Clutch, Positive friction-. W. J. Robinson. No. 1,151,616; Aug. 31; Gaz. vol. 217; p. 1369.
- Clutch, Ratchet-. J. H. Smith. No. 1,140,199; May 18; Gaz. vol. 214; p. 946.
- Clutch, Releasing-. G. D. Bailey. No. 1,164,627; Dec. 21; Gaz. vol. 221; p. 747.
- Clutch, Self-releasing positive. L. Willis. No. 1,158,354; Oct. 26; Gaz. vol. 219; p. 1176.
- Clutch-shifting mechanism. H. P. Reston. No. 1,137,716; Apr. 27; Gaz. vol. 213; p. 1404.
- Clutch, Sucker-rod. R. A. and G. N. Kelly. No. 1,150,681; Aug. 17; Gaz. vol. 217; p. 946.
- Clutch transmission. W. E. Tullar. No. 1,128,079; Feb. 9; Gaz. vol. 211; p. 538.
- Clutch, Transmission-. E. Valoppi. No. 1,126,924; Feb. 2; Gaz. vol. 211; p. 91.
- Clutch transmission, Disk-. W. L. Fee. No. 1,154,749; Sept. 28; Gaz. vol. 218; p. 936.
- Clutches, Apparatus for controlling friction-. A. R. Hultin. No. 1,163,541; Dec. 7; Gaz. vol. 221; p. 281.
- Clutches, Integral nut and bearing for friction-. A. Lambert. No. 1,157,232; Oct. 19; Gaz. vol. 219; p. 722.
- Clutches, Operating device for punch-press. L. J. Campbell. No. 1,158,370; Oct. 26; Gaz. vol. 219; p. 1182.
- Coach, Funeral-. B. Lawson, Jr. No. 1,149,161; Aug. 3; Gaz. vol. 217; p. 237.
- Coagulant for water purification and making same. A. Jacobson. No. 1,137,005; Apr. 27; Gaz. vol. 213; p. 1155.
- Coal and ore separator, Fine. J. M. Draper. No. 1,151,448; Aug. 24; Gaz. vol. 217; p. 1262.
- Coal and rock drill. P. Jopling. No. 1,135,530; Apr. 13; Gaz. vol. 213; p. 555.
- Coal and sand reclaiming device. G. E. Alleman. No. 1,165,379; Dec. 28; Gaz. vol. 221; p. 1048.
- Coal breaker and scraper. J. P. Considine. No. 1,138,627; May 11; Gaz. vol. 214; p. 354.

Alphabetical list of inventions—Continued.

- Coal breaking and screening machine. J. L. Hiller. No. 1,135,796; Apr. 13; Gaz. vol. 213; p. 649.
- Coal-briquets, Apparatus for coking. P. Hein. No. 1,155,486; Oct. 5; Gaz. vol. 219; p. 57.
- Coal briquets, Manufacture of. H. J. and A. Phillips. No. 1,149,536; Aug. 10; Gaz. vol. 217; p. 476.
- Coal burner, Pulverized-. N. L. Warford. No. 1,147,833; July 27; Gaz. vol. 216; p. 1066.
- Coal-cleaner. J. R. Montgomery. No. 1,140,999; May 25; Gaz. vol. 214; p. 1261.
- Coal-cutter, Electric-motor-driven. R. Martin. No. 1,145,331; July 6; Gaz. vol. 216; p. 123.
- Coal-drill. J. G. Huntley. No. 1,128,878; Feb. 16; Gaz. vol. 211; p. 862.
- Coal-handling machinery. C. S. Williamson. No. 1,162,838; Dec. 7; Gaz. vol. 221; p. 38.
- Coal into a marketable fuel, Converting fine. J. Evans. No. 1,140,735; May 25; Gaz. vol. 214; p. 1166.
- Coal-jig. G. E. Reynolds. No. 1,166,078; Dec. 28; Gaz. vol. 221; p. 1292.
- Coal-jigging plant. C. Simon. No. 1,144,735; June 29; Gaz. vol. 215; p. 1403.
- Coal-loading apparatus, Tender. H. C. Buchwald. No. 1,157,366; Oct. 19; Gaz. vol. 219; p. 770.
- Coal-loading device. W. W. Jamison. No. 1,128,880; Feb. 16; Gaz. vol. 211; p. 863.
- Coal-loading machine. F. S. Converse. No. 1,133,008; Mar. 23; Gaz. vol. 212; p. 1241.
- Coal, ore, &c., Apparatus for separating. F. Pardee. No. 1,149,433; Aug. 10; Gaz. vol. 217; p. 451.
- Coal. Purification of. F. W. C. Schniewind. No. 1,153,182; Sept. 7; Gaz. vol. 218; p. 288.
- Coal-separating machine. W. A. Riley. No. 1,161,733; Nov. 23; Gaz. vol. 220; p. 1300.
- Coal, Separation of. F. W. C. Schniewind. No. 1,152,442; Sept. 7; Gaz. vol. 218; p. 21.
- Coal-tar, Treating. G. L. Davies and W. E. W. Richards. No. 1,148,011; July 27; Gaz. vol. 216; p. 1129.
- Coal-washer. A. F. Blair. No. 1,158,777; Nov. 2; Gaz. vol. 220; p. 129.
- Coal-washer. H. G. Cook. No. 1,162,753; Dec. 7; Gaz. vol. 221; p. 8.
- Coal-washer. A. J. Sayers. No. 1,142,060; June 8; Gaz. vol. 215; p. 379.
- Coal-washing apparatus. E. G. Burks and N. Hayes. No. 1,132,433; Mar. 16; Gaz. vol. 212; p. 980.
- Coal-washing apparatus. C. A. Wendell. No. 1,165,734; Dec. 28; Gaz. vol. 221; p. 1174.
- Coal-washing jig. C. A. Wendell. No. 1,163,292; Dec. 7; Gaz. vol. 221; p. 195.
- Coaling device. D. Hilleman. No. 1,133,141; Mar. 23; Gaz. vol. 212; p. 1288.
- Coaster. S. Hughes. No. 1,145,485; July 6; Gaz. vol. 216; p. 179.
- Coaster. F. X. La Chall. No. 1,150,773; Aug. 17; Gaz. vol. 217; p. 976.
- Coaster. J. B. Martin. No. 1,128,810; Feb. 16; Gaz. vol. 211; p. 839.
- Coaster. E. S. Taylor. No. 1,147,566; July 20; Gaz. vol. 216; p. 946.
- Coaster-brake. A. Elkin. No. 1,135,883; Apr. 13; Gaz. vol. 213; p. 680.
- Coaster-brake. M. H. Johnson. No. 1,138,956; May 11; Gaz. vol. 214; p. 471.
- Coaster-brake. C. Lutze. No. 1,125,142; Jan. 19; Gaz. vol. 210; p. 761.
- Coaster-brake. P. P. O'Horo and R. Keller. No. 1,149,149; Aug. 3; Gaz. vol. 217; p. 232.
- Coaster-brake. J. J. Tobin. No. 1,157,064; Oct. 19; Gaz. vol. 219; p. 663.
- Coaster-brake. G. W. Van Deren. No. 1,139,145; May 11; Gaz. vol. 214; p. 540.
- Coaster-brake. G. W. Van Deren. No. 1,158,337; Oct. 26; Gaz. vol. 219; p. 1171.
- Coaster-brake. G. W. Van Deren. No. 1,158,751; Nov. 2; Gaz. vol. 220; p. 119.
- Coaster-brake. O. C. Watkins. No. 1,139,090; May 11; Gaz. vol. 214; p. 520.
- Coaster-brake. F. Wilkinson. No. 1,133,774; Mar. 30; Gaz. vol. 212; p. 1550.
- Coaster-brake for bicycles, motor-cycles, or the like. M. J. Wald. (Reissue.) No. 1,394,6; July 13; Gaz. vol. 216; p. 652.
- Coaster-brake for motor-cycles. F. S. Ellett. No. 1,154,915; Sept. 28; Gaz. vol. 218; p. 991.
- Coaster, Child's locomotive-. R. W. Nicol. No. 1,145,209; July 6; Gaz. vol. 216; p. 81.
- Coaster, Convertible. E. Ellerman. No. 1,140,805; May 25; Gaz. vol. 214; p. 1190.
- Coat. W. Sihler. No. 1,136,282; Apr. 20; Gaz. vol. 213; p. 861.
- Coat. G. T. Smallwood. No. 1,162,523; Nov. 30; Gaz. vol. 220; p. 1623.
- Coat and hat hanger. G. Legros. No. 1,162,375; Nov. 30; Gaz. vol. 220; p. 1571.
- Coat and hat rack for theater-seats and the like. Combination. P. Stever. No. 1,161,539; Nov. 23; Gaz. vol. 220; p. 1235.
- Coat and jacket, Convertible. A. C. Yudelson. No. 1,125,789; Jan. 19; Gaz. vol. 210; p. 994.
- Coat and vest, Combination. J. Phillipson. No. 1,135,205; Apr. 13; Gaz. vol. 213; p. 443.
- Coat, hat, and pants hanger, Combination. E. U. Down. No. 1,143,693; June 22; Gaz. vol. 215; p. 1013.
- Coat-hook. J. T. White. No. 1,132,414; Mar. 16; Gaz. vol. 212; p. 973.
- Coat, Making wear-withstanding. E. A. Eckhardt. No. 1,162,149; Nov. 30; Gaz. vol. 220; p. 1494.
- Coat-pad. I. Isaacs. No. 1,146,710; July 13; Gaz. vol. 216; p. 627.
- Coat, Reversible. S. A. H. Rothstein. No. 1,161,735; Nov. 23; Gaz. vol. 220; p. 1301.
- Coat-sleeve. A. D. Goldman. No. 1,152,169; Aug. 31; Gaz. vol. 217; p. 1559.
- Coat, Storm-. W. S. Barker. No. 1,161,589; Nov. 23; Gaz. vol. 220; p. 1253.
- Coat-sweater. M. K. Pasco. No. 1,160,195; Nov. 16; Gaz. vol. 220; p. 714.
- Coat, vest, and trousers hanger, Combined. W. E. Pugley. No. 1,159,270; Nov. 2; Gaz. vol. 220; p. 299.
- Coated fabric. W. G. Ayres. No. 1,159,155; Nov. 2; Gaz. vol. 220; p. 258.
- Coating and applying same, Protective. C. P. Townsend. No. 1,146,214; July 13; Gaz. vol. 216; p. 454.
- Coating and impregnating purposes, Material for. M. Buchner. No. 1,165,222; Dec. 21; Gaz. vol. 221; p. 957.
- Coating and stroking or decorating device. P. Panoullas. No. 1,148,793; Aug. 3; Gaz. vol. 217; p. 112.
- Coating apparatus. J. Meade. No. 1,154,874; Sept. 28; Gaz. vol. 218; p. 976.
- Coating apparatus, Article-. L. Caruso and S. Morici. No. 1,124,858; Jan. 12; Gaz. vol. 210; p. 626.
- Coating composition and wooden articles. J. Adler. No. 1,147,066; July 20; Gaz. vol. 216; p. 772.
- Coating fabrics. J. Meade. No. 1,154,875; Sept. 28; Gaz. vol. 218; p. 977.
- Coating for the hands, Composition for use as a protective. E. L. Moore. No. 1,149,777; Aug. 10; Gaz. vol. 217; p. 565.
- Coating for wood, metal, or other surfaces. S. C. Graves. No. 1,124,012; Jan. 5; Gaz. vol. 210; p. 276.
- Coating-machine. A. L. Bausman. No. 1,160,991; Nov. 16; Gaz. vol. 220; p. 995.
- Coating-machine. C. F. Pease. No. 1,125,166; Jan. 19; Gaz. vol. 210; p. 771.
- Coating-machine. A. B. Starr. No. 1,149,154; Aug. 3; Gaz. vol. 217; p. 235.
- Coating-machine. F. H. Woolf. No. 1,132,895; Mar. 23; Gaz. vol. 212; p. 1197.
- Coating mechanism. F. E. Goldsmith. No. 1,147,161; July 20; Gaz. vol. 216; p. 804.
- Coating metal. J. A. Hanlon. No. 1,156,995; Oct. 19; Gaz. vol. 219; p. 637.
- Coating porous substances. J. W. Aylsworth. No. 1,139,470; May 18; Gaz. vol. 214; p. 689.
- Coating-pot. P. W. Everhart. No. 1,142,685; June 8; Gaz. vol. 215; p. 597.
- Coating process. F. E. Goldsmith. No. 1,162,349; Nov. 30; Gaz. vol. 220; p. 1563.
- Coating sheet, plate, and rolled metal, Apparatus for. L. S. Stoddard and B. Goldsmith. No. 1,142,856; June 15; Gaz. vol. 215; p. 696.
- Coating with aluminum. E. Morf. No. 1,154,651; Sept. 28; Gaz. vol. 218; p. 903.
- Coating with fusible material. C. F. Jenkins. No. 1,139,291; May 11; Gaz. vol. 214; p. 588.
- Coating woven fabrics, paper, and the like. O. C. E. P. Wawrzyniak. No. 1,141,224; June 1; Gaz. vol. 215; p. 48.
- Coatings, Producing transparent. E. N. Todd. No. 1,143,464; June 15; Gaz. vol. 215; p. 910.
- Coatings to metallic articles, Applying protective. C. and C. Mark, Jr. No. 1,155,317; Sept. 28; Gaz. vol. 218; p. 1127.
- Cobalt from ores or by-products, Separating. P. M. McKenna. No. 1,166,067; Dec. 28; Gaz. vol. 221; p. 1287.
- Cock. E. F. Goudard. No. 1,166,350; Dec. 28; Gaz. vol. 221; p. 1393.
- Cock and drain, Combined compression. L. M. Lancaster. No. 1,133,566; Mar. 30; Gaz. vol. 212; p. 1475.
- Cock and train-pipe clamp, Combined angle. S. H. Campbell. No. 1,156,463; Oct. 12; Gaz. vol. 219; p. 421.
- Cock, Angle-. J. B. Carroll. No. 1,128,846; Feb. 16; Gaz. vol. 211; p. 852.
- Cock, Angle-. C. G. Gustafson. No. 1,130,399; Mar. 2; Gaz. vol. 212; p. 194.
- Cock, Automatic cylinder-. E. A. Daymon. No. 1,153,770; Sept. 14; Gaz. vol. 218; p. 535.
- Cock, Automatic gas-. A. R. Weaver. No. 1,134,932; Apr. 6; Gaz. vol. 213; p. 302.
- Cock, Ball-. J. J. Cunningham. No. 1,159,182; Nov. 2; Gaz. vol. 220; p. 269.
- Cock, Ball-. T. J. Florey. No. 1,148,835; Aug. 3; Gaz. vol. 217; p. 126.
- Cock, Ball-. J. H. Johnson. No. 1,140,377; May 25; Gaz. vol. 214; p. 1042.
- Cock, Ball-. J. H. Johnson. No. 1,159,499; Nov. 9; Gaz. vol. 220; p. 412.
- Cock, Ball-. G. B. Moore and A. J. Pratt. No. 1,140,054; May 18; Gaz. vol. 214; p. 895.
- Cock, Ball-. A. F. Morency. No. 1,125,369; Jan. 19; Gaz. vol. 210; p. 845.

Alphabetical list of inventions—Continued.

- Cock, Ball-. T. H. Radcliffe. No. 1,142,620; June 8; Gaz. vol. 215; p. 575.
- Cock, Ball-. T. W. Ryan. No. 1,163,370; Dec. 7; Gaz. vol. 221; p. 223.
- Cock, Ball-. J. Shanks. No. 1,165,913; Dec. 28; Gaz. vol. 221; p. 1235.
- Cock, Blow-off. C. Hobbs and J. C. Rae. No. 1,160,285; Nov. 16; Gaz. vol. 220; p. 744.
- Cock, Blow-off. J. L. Roach and L. L. Dawson. No. 1,161,763; Nov. 23; Gaz. vol. 220; p. 1311.
- Cock, Blow-off. G. Roan and H. Helmholtz. No. 1,131,422; Mar. 9; Gaz. vol. 212; p. 583.
- Cock boxes, Cover-fastening for stop-. W. P. Taylor. No. 1,157,062; Oct. 19; Gaz. vol. 219; p. 662.
- Cock, By-pass gas-. J. Elser. No. 1,140,026; May 18; Gaz. vol. 214; p. 885.
- Cock, Cylinder-. A. E. Stachel. No. 1,126,900; Feb. 2; Gaz. vol. 211; p. 82.
- Cock device, Angle-. T. B. Ellwood. No. 1,131,224; Mar. 9; Gaz. vol. 212; p. 514.
- Cock, Drain-. W. E. Fisher. No. 1,161,648; Nov. 23; Gaz. vol. 220; p. 1271.
- Cock, Gage-. A. L. Farr. No. 1,129,970; Mar. 2; Gaz. vol. 212; p. 46.
- Cock, Gage-. R. I. Hogle. No. 1,128,982; Feb. 16; Gaz. vol. 211; p. 901.
- Cock, Gage-. J. T. Langley and E. Thomas. No. 1,149,374; Aug. 10; Gaz. vol. 217; p. 420.
- Cock, Gage-. F. W. Leidecker. No. 1,124,471; Jan. 12; Gaz. vol. 210; p. 488.
- Cock, Gage-. L. T. Mart. No. 1,162,630; Nov. 30; Gaz. vol. 220; p. 1656.
- Cock, Gas-. F. M. Brooks. No. 1,125,645; Jan. 19; Gaz. vol. 210; p. 940.
- Cock, Gas-. G. W. Campbell, Jr. No. 1,141,768; June 1; Gaz. vol. 215; p. 239.
- Cock, Gas-. T. J. Henning. No. 1,128,445; Feb. 16; Gaz. vol. 211; p. 712.
- Cock, Gas-. J. H. McMurray. No. 1,139,208; May 11; Gaz. vol. 214; p. 562.
- Cock, Gas-. R. M. G. Phillips. No. 1,152,213; Aug. 31; Gaz. vol. 217; p. 1574.
- Cock handle, Stop-. W. V. Turner. No. 1,131,177; Mar. 9; Gaz. vol. 212; p. 497.
- Cock holder, Angle-. S. H. Campbell. No. 1,162,030; Nov. 30; Gaz. vol. 220; p. 1451.
- Cock, Lock-. H. E. Dekebach. No. 1,123,858; Jan. 5; Gaz. vol. 210; p. 226.
- Cock-operating device, Train-pipe-. C. D. Morris. No. 1,134,546; Apr. 6; Gaz. vol. 213; p. 169.
- Cock operator, Air-. J. B. Doyle. No. 1,142,683; June 8; Gaz. vol. 215; p. 596.
- Cock or faucet, Self-closing. A. C. Brown. No. 1,153,370; Sept. 14; Gaz. vol. 218; p. 395.
- Cock or valve, Automatic compression stop and waste. F. G. Hirst. No. 1,147,399; July 20; Gaz. vol. 216; p. 889.
- Cock, Rapid-compression. A. C. Brown. No. 1,148,441; July 27; Gaz. vol. 216; p. 1282.
- Cock, Safety-. F. W. Piper. No. 1,134,904; Apr. 6; Gaz. vol. 213; p. 293.
- Cock, Safety gage-. E. Bellinger. No. 1,126,357; Jan. 26; Gaz. vol. 210; p. 1231.
- Cock, Safety water-gage. W. N. Rowe. No. 1,156,933; Oct. 19; Gaz. vol. 219; p. 615.
- Cock, Stop-. R. W. Bull. No. 1,156,269; Oct. 12; Gaz. vol. 219; p. 352.
- Cock, Stop-. J. W. Hays. No. 1,137,969; May 4; Gaz. vol. 214; p. 87.
- Cock, Stop-. M. S. Hollis. No. 1,134,678; Apr. 6; Gaz. vol. 213; p. 217.
- Cock, Stop-. J. Jeannotte. No. 1,160,176; Nov. 16; Gaz. vol. 220; p. 707.
- Cock, Stop and waste. H. F. Schroeder. No. 1,153,645; Sept. 14; Gaz. vol. 218; p. 491.
- Cock, Three-way. J. V. Miller. No. 1,129,889; Mar. 2; Gaz. vol. 212; p. 19.
- Cocks, Construction of. R. Bablon. No. 1,140,939; May 25; Gaz. vol. 214; p. 1240.
- Cocks, faucets, and valves, Handle for. O. G. Hitchcock. No. 1,145,587; July 6; Gaz. vol. 216; p. 213.
- Cocks, Muffler attachment for blow-off. F. Marsh. No. 1,153,327; Sept. 14; Gaz. vol. 218; p. 377.
- Cockeye. T. A. Bakken. No. 1,124,686; Jan. 12; Gaz. vol. 210; p. 565.
- Cocoonut-shells, Removing or breaking. R. W. P. Horn, J. H. Nissley, and D. B. Latimer. No. 1,161,811; Nov. 23; Gaz. vol. 220; p. 1328.
- Code-messages, Machine for interpreting. E. H. Hebern. No. 1,135,452; Apr. 13; Gaz. vol. 213; p. 528.
- Coffee-clearing compound and making same. J. Morley. No. 1,151,373; Aug. 24; Gaz. vol. 217; p. 1237.
- Coffee composition. T. A. Crawford. No. 1,161,925; Nov. 30; Gaz. vol. 220; p. 1416.
- Coffee extract. M. C. Whitaker and F. J. Metzger. No. 1,123,828; Jan. 5; Gaz. vol. 210; p. 215.
- Coffee extract, Water-soluble. M. C. Whitaker and F. J. Metzger. No. 1,123,827; Jan. 5; Gaz. vol. 210; p. 215.
- Coffee in tablet form and manufacturing the same, Cereal. J. L. Kellogg. No. 1,159,949; Nov. 9; Gaz. vol. 220; p. 576.
- Coffee-machine. C. Nelson and L. H. Dyer. No. 1,134,979; Apr. 6; Gaz. vol. 213; p. 320.
- Coffee-making device. H. Galt. No. 1,134,526; Apr. 6; Gaz. vol. 213; p. 162.
- Coffee, Making soluble. G. H. Benjamin. No. 1,158,431; Nov. 2; Gaz. vol. 220; p. 6.
- Coffee-pot. S. Adkins. No. 1,165,376; Dec. 28; Gaz. vol. 221; p. 1047.
- Coffee-pot. D. Camino. No. 1,125,812; Jan. 19; Gaz. vol. 210; p. 1002.
- Coffee-pot. L. Howard. No. 1,139,288; May 11; Gaz. vol. 214; p. 588.
- Coffee-pot. R. H. Talbutt and B. O. Hutchison. No. 1,143,239; June 15; Gaz. vol. 215; p. 833.
- Coffee-pot. R. T. Wood. No. 1,165,480; Dec. 28; Gaz. vol. 221; p. 1084.
- Coffee pot, Drip-. E. M. Swing. No. 1,160,011; Nov. 9; Gaz. vol. 220; p. 596.
- Coffee-roaster. R. Burns. No. 1,128,101; Feb. 9; Gaz. vol. 211; p. 545.
- Coffee-roaster. J. C. Prims. No. 1,160,650; Nov. 16; Gaz. vol. 220; p. 875.
- Coffee substitute or coffee cereal. J. L. Kellogg. No. 1,163,932; Dec. 14; Gaz. vol. 221; p. 465.
- Coffee substitutes, Manufacturing. J. H. Kellogg. No. 1,133,037; Mar. 23; Gaz. vol. 212; p. 1252.
- Coffee tablet and making same. R. Hübner. No. 1,137,265; Apr. 27; Gaz. vol. 213; p. 1251.
- Coffee, Treating and roasting. E. M. Potter. No. 1,147,888; July 27; Gaz. vol. 216; p. 1086.
- Coffin. P. Arnold. No. 1,143,018; June 15; Gaz. vol. 215; p. 754.
- Coffin. A. B. Benzing. No. 1,134,719; Apr. 6; Gaz. vol. 213; p. 233.
- Coffin. G. F. Brown. No. 1,139,254; May 11; Gaz. vol. 214; p. 576.
- Coffin-lowering device. W. Westerheide. No. 1,165,823; Dec. 28; Gaz. vol. 221; p. 1203.
- Coherer. E. R. Gill. No. 1,150,111; Aug. 17; Gaz. vol. 217; p. 746.
- Cohering mass and forming the same. D. H. Bibb. No. 1,158,363; Oct. 26; Gaz. vol. 219; p. 1180.
- Cohering masses, Making. D. H. Bibb. No. 1,158,364; Oct. 26; Gaz. vol. 219; p. 1181.
- Cohering masses, Making. D. H. Bibb. No. 1,158,366; Oct. 26; Gaz. vol. 219; p. 1181.
- Coil-forming apparatus. M. Sandfield. No. 1,153,344; Sept. 14; Gaz. vol. 218; p. 384.
- Coil-supporting reel, Wound-. F. Crawford. No. 1,147,680; July 27; Gaz. vol. 216; p. 987.
- Coil-taping machine. W. Deats. No. 1,132,765; Mar. 23; Gaz. vol. 212; p. 1150.
- Coil-tightening device. J. A. Cameron and G. B. Birch. No. 1,136,311; Apr. 20; Gaz. vol. 213; p. 871.
- Coil-wedge. A. B. Field. No. 1,150,022; Aug. 17; Gaz. vol. 217; p. 714.
- Coil-winding machine. H. S. Humphrey. No. 1,165,779; Dec. 28; Gaz. vol. 221; p. 1189.
- Coiling device. L. E. Haynes. No. 1,140,980; May 25; Gaz. vol. 214; p. 1254.
- Coin-actuated mechanism. A. F. Hauss. No. 1,146,620; July 13; Gaz. vol. 216; p. 597.
- Coin-actuated mechanism. W. N. Holloway. No. 1,131,628; Mar. 9; Gaz. vol. 212; p. 653.
- Coin and check operative lock. E. O. Bennett. No. 1,142,392; June 8; Gaz. vol. 215; p. 497.
- Coin and stamp depository. L. H. Briant. No. 1,144,526; June 29; Gaz. vol. 215; p. 1329.
- Coin-box. A. Troyaton. No. 1,161,909; Nov. 30; Gaz. vol. 220; p. 1409.
- Coin-box. R. L. Utter. No. 1,124,561; Jan. 12; Gaz. vol. 210; p. 520.
- Coin-carrier. T. L. Martin. No. 1,138,133; May 4; Gaz. vol. 214; p. 146.
- Coin-case. M. H. Metal. No. 1,131,406; Mar. 9; Gaz. vol. 212; p. 576.
- Coin construction. R. M. Hyde. No. 1,159,770; Nov. 9; Gaz. vol. 220; p. 510.
- Coin-container. E. Fusinelli. No. 1,163,173; Dec. 7; Gaz. vol. 221; p. 154.
- Coin-controlled apparatus. O. Jaeger. No. 1,151,791; Aug. 31; Gaz. vol. 217; p. 1428.
- Coin-controlled device. W. P. Andrus. No. 1,150,923; Aug. 24; Gaz. vol. 217; p. 1086.
- Coin-controlled lock. E. P. Baird. No. 1,149,990; Aug. 10; Gaz. vol. 217; p. 642.
- Coin-controlled lock. B. Garvin. No. 1,132,467; Mar. 16; Gaz. vol. 212; p. 992.
- Coin-controlled lock. J. W. Patterson. No. 1,146,018; July 13; Gaz. vol. 216; p. 385.
- Coin-controlled lock. A. A. Wyckoff. No. 1,136,197; Apr. 20; Gaz. vol. 213; p. 831.
- Coin-controlled lock. A. A. Wyckoff. No. 1,136,198; Apr. 20; Gaz. vol. 213; p. 831.
- Coin-controlled lock, Electric. G. G. F. Boswell. No. 1,148,438; July 27; Gaz. vol. 216; p. 1281.
- Coin-controlled machine. J. H. Egan and J. H. Frierson. No. 1,128,118; Feb. 9; Gaz. vol. 211; p. 551.
- Coin-controlled mechanism. G. B. Beale. No. 1,142,745; June 8; Gaz. vol. 215; p. 615.
- Coin-controlled mechanism. J. J. Lasher and W. B. Wasung. No. 1,149,270; Aug. 10; Gaz. vol. 217; p. 382.

Alphabetical list of inventions—Continued.

- Coin-controlled mechanism. B. E. Morse. No. 1,148,249; July 27; Gaz. vol. 216; p. 1215.
- Coin-controlled mechanism. P. D. Parsons. No. 1,164,856; Dec. 21; Gaz. vol. 221; p. 828.
- Coin-counter. J. F. Webendorfer. No. 1,128,561; Feb. 16; Gaz. vol. 211; p. 753.
- Coin-delivering machine. E. B. Birkenbeuel. No. 1,139,838; May 18; Gaz. vol. 214; p. 818.
- Coin-delivering machine. E. J. Brandt. No. 1,129,063; Feb. 23; Gaz. vol. 211; p. 964.
- Coin-delivery apparatus. E. J. Brandt. No. 1,160,251; Nov. 16; Gaz. vol. 220; p. 733.
- Coin-delivery machine. E. J. Brandt. No. 1,143,685; June 22; Gaz. vol. 215; p. 1010.
- Coin-delivery machines, Chute-gate for. N. White. No. 1,145,727; July 6; Gaz. vol. 216; p. 264.
- Coin-delivery machines, Record mechanism for. T. Bilyeu and W. S. Overlin. No. 1,165,491; Dec. 28; Gaz. vol. 221; p. 1088.
- Coin-delivery mechanism. F. C. Leonard and G. F. Rooke. No. 1,158,696; Nov. 2; Gaz. vol. 220; p. 100.
- Coin-detector. C. H. Green. No. 1,154,919; Sept. 28; Gaz. vol. 218; p. 993.
- Coin-gage for coin-controlled mechanism. F. N. Rosenstengel. No. 1,158,722; Nov. 2; Gaz. vol. 220; p. 108.
- Coin-handling apparatus. C. F. Hidden. No. 1,143,827; June 22; Gaz. vol. 215; p. 1059.
- Coin-handling device. F. H. Chapman. No. 1,146,921; July 20; Gaz. vol. 216; p. 721.
- Coin-handling device. E. E. Henry. No. 1,144,985; June 29; Gaz. vol. 215; p. 1487.
- Coin-handling machine. C. S. Batdorf. No. 1,130,245; Mar. 2; Gaz. vol. 212; p. 140.
- Coin-handling machine. E. B. Paul. No. 1,162,734; Nov. 30; Gaz. vol. 220; p. 1691.
- Coin-holder. J. B. Given. No. 1,126,192; Jan. 26; Gaz. vol. 210; p. 1172.
- Coin-holder. O. C. Whitcomb. No. 1,150,914; Aug. 24; Gaz. vol. 217; p. 1083.
- Coin-issuing apparatus, Indicator mechanism for. K. Maier. No. 1,128,888; Feb. 16; Gaz. vol. 211; p. 866.
- Coin-operated lock, Automatic. D. W. Corbet. No. 1,154,381; Sept. 21; Gaz. vol. 218; p. 782.
- Coin or token holder. M. Buchrim. No. 1,160,255; Nov. 16; Gaz. vol. 220; p. 734.
- Coin-package wrapper. C. S. Batdorf. No. 1,130,246; Mar. 2; Gaz. vol. 212; p. 140.
- Coin-paying-out machine. F. Correll. No. 1,160,580; Nov. 16; Gaz. vol. 220; p. 848.
- Coin-receptacle. J. D. Bradford. No. 1,145,743; July 6; Gaz. vol. 216; p. 269.
- Coin-receptacle. J. W. Elvyn and E. A. Christoph. No. 1,154,239; Sept. 21; Gaz. vol. 218; p. 732.
- Coin-receptacle, Pocket. J. Schut. No. 1,159,535; Nov. 9; Gaz. vol. 220; p. 424.
- Coin-register. W. G. Kirchhoff. No. 1,138,385; May 4; Gaz. vol. 214; p. 234.
- Coin-registering mechanism. W. P. Dun Lany. No. 1,154,239; Sept. 21; Gaz. vol. 218; p. 732.
- Coin-selector. G. B. Kohler. No. 1,123,759; Jan. 5; Gaz. vol. 210; p. 192.
- Coin-separator. C. S. Batdorf. No. 1,149,615; Aug. 10; Gaz. vol. 217; p. 507.
- Coin-trap. G. R. Perry. No. 1,158,552; Nov. 2; Gaz. vol. 220; p. 51.
- Coin-tray, Reserve. A. H. Hawley. No. 1,161,666; Nov. 23; Gaz. vol. 220; p. 1278.
- Coin tube and tray. F. Vogel. No. 1,139,604; May 18; Gaz. vol. 214; p. 735.
- Coin-wrapper. L. Lukacher. No. 1,134,687; Apr. 6; Gaz. vol. 213; p. 220.
- Coin-wrapper. C. Silberstein. No. 1,155,624; Oct. 5; Gaz. vol. 219; p. 103.
- Coin-wrapping device. A. C. Jackson. No. 1,130,978; Mar. 9; Gaz. vol. 212; p. 429.
- Coke and recovering by-products, Making. C. A. Weeks. No. 1,127,949; Feb. 9; Gaz. vol. 211; p. 493.
- Coke cakes, Apparatus for utilizing the heat of. C. Semmler. No. 1,153,453; Sept. 14; Gaz. vol. 218; p. 424.
- Coke-conveyer. D. F. Lepley. No. 1,142,895; June 15; Gaz. vol. 215; p. 710.
- Coke-oven. F. J. Collin. No. 1,157,368; Oct. 19; Gaz. vol. 219; p. 771.
- Coke-oven. K. Ellingen. No. 1,154,298; Sept. 21; Gaz. vol. 218; p. 752.
- Coke-oven. E. Hinselmann. No. 1,145,895; July 13; Gaz. vol. 216; p. 341.
- Coke-oven. F. Peiter. No. 1,146,442; July 13; Gaz. vol. 216; p. 535.
- Coke-oven. A. Roberts. No. 1,132,685; Mar. 23; Gaz. vol. 212; p. 1121.
- Coke-oven. L. L. Summers. No. 1,155,526; Oct. 5; Gaz. vol. 219; p. 71.
- Coke-oven, Continuous-process. J. A. Bishop. No. 1,166,175; Dec. 28; Gaz. vol. 221; p. 1329.
- Coke-oven door. E. C. Auld. No. 1,151,331; Aug. 24; Gaz. vol. 217; p. 1224.
- Coke-oven door. M. Cappelli. No. 1,159,827; Nov. 9; Gaz. vol. 220; p. 531.
- Coke-oven-door-operating device. C. V. McIntire. No. 1,141,132; June 1; Gaz. vol. 215; p. 14.
- Coke-oven-watering device. H. S. Murray. No. 1,129,000; Feb. 16; Gaz. vol. 211; p. 907.
- Coke-ovens, Heating. H. L. Doherty. No. 1,150,840; Aug. 17; Gaz. vol. 217; p. 1001.
- Coke-ovens, Leveler for charges of. D. F. Lepley. No. 1,129,352; Feb. 23; Gaz. vol. 211; p. 1065.
- Coke-ovens, Machine for leveling coal in beehive. J. H. Huhn. No. 1,155,066; Sept. 28; Gaz. vol. 218; p. 1043.
- Coke-ovens, Pusher for. D. F. Lepley. No. 1,129,354; Feb. 23; Gaz. vol. 211; p. 1066.
- Coke-producing plant. F. Tschudy. No. 1,139,088; May 11; Gaz. vol. 214; p. 519.
- Coke to produce battery-carbons, Reducing. H. T. Johnson. No. 1,141,117; June 1; Gaz. vol. 215; p. 9.
- Colander. M. J. Herbstreet. No. 1,139,033; May 11; Gaz. vol. 214; p. 501.
- Colander, strainer, and steamer, Combined. M. L. Fox. No. 1,134,837; Apr. 6; Gaz. vol. 213; p. 272.
- Collapsible and interchangeable block. R. Dunseath. No. 1,146,411; July 13; Gaz. vol. 216; p. 522.
- Collapsible box. G. F. Callery. No. 1,158,632; Nov. 2; Gaz. vol. 220; p. 79.
- Collapsible box. A. Dishmaker. No. 1,124,875; Jan. 12; Gaz. vol. 210; p. 633.
- Collapsible box. R. E. Fleming. No. 1,124,720; Jan. 12; Gaz. vol. 210; p. 577.
- Collapsible box. E. J. Haines. No. 1,158,046; Oct. 26; Gaz. vol. 219; p. 1069.
- Collapsible box. F. H. Houghland. No. 1,166,048; Dec. 28; Gaz. vol. 221; p. 1281.
- Collapsible box. J. A. Smith. No. 1,136,179; Apr. 20; Gaz. vol. 213; p. 824.
- Collapsible box. J. W. Weiss. No. 1,132,292; Mar. 16; Gaz. vol. 212; p. 930.
- Collapsible box. J. W. Weiss. No. 1,132,293; Mar. 16; Gaz. vol. 212; p. 931.
- Collapsible box. J. W. Weiss. No. 1,146,115; July 13; Gaz. vol. 216; p. 418.
- Collapsible bracket. A. M. Klepinger. No. 1,159,956; Nov. 9; Gaz. vol. 220; p. 578.
- Collapsible carrier. C. W. Beck. No. 1,158,885; Nov. 2; Gaz. vol. 220; p. 168.
- Collapsible case. S. A. Barry. No. 1,123,978; Jan. 5; Gaz. vol. 210; p. 265.
- Collapsible chair. O. Holgerson. No. 1,127,247; Feb. 2; Gaz. vol. 211; p. 205.
- Collapsible or interchangeable case. J. L. Buehl. No. 1,141,865; June 1; Gaz. vol. 215; p. 271.
- Collapsible pipe. A. Moses. No. 1,126,255; Jan. 26; Gaz. vol. 210; p. 1194.
- Collapsible seat. E. Hardtke. No. 1,165,250; Dec. 21; Gaz. vol. 221; p. 966.
- Collapsible table. C. A. Wright. No. 1,126,611; Jan. 26; Gaz. vol. 210; p. 1323.
- Collapsible table and lunch-box, Combined. C. Stephens and V. M. Carter. No. 1,130,550; Mar. 2; Gaz. vol. 212; p. 249.
- Collapsible table for paper-hangers' use. P. Scardino. No. 1,140,073; May 18; Gaz. vol. 214; p. 903.
- Collapsible tube. K. D. Bryson. No. 1,123,989; Jan. 5; Gaz. vol. 210; p. 268.
- Collapsible tube. W. Rodiger. No. 1,137,086; Apr. 27; Gaz. vol. 213; p. 1184.
- Collapsible tube. B. Ruysdael. No. 1,125,402; Jan. 19; Gaz. vol. 210; p. 857.
- Collapsible tube. P. Van Cleef. No. 1,125,773; Jan. 19; Gaz. vol. 210; p. 938.
- Collar. V. Antoni. No. 1,147,691; July 20; Gaz. vol. 216; p. 991.
- Collar. H. R. Fishel. No. 1,128,433; Feb. 16; Gaz. vol. 211; p. 709.
- Collar. J. W. Gardner. No. 1,132,254; Mar. 16; Gaz. vol. 212; p. 916.
- Collar. J. P. Gibson. No. 1,159,761; Nov. 9; Gaz. vol. 220; p. 507.
- Collar. J. Kaufman. No. 1,153,693; Sept. 14; Gaz. vol. 218; p. 508.
- Collar. C. F. Polk. No. 1,124,947; Jan. 12; Gaz. vol. 210; p. 657.
- Collar. A. L. Price. No. 1,153,134; Sept. 7; Gaz. vol. 218; p. 271.
- Collar. H. E. Shumway. No. 1,153,455; Sept. 14; Gaz. vol. 218; p. 425.
- Collar. E. F. Sibell. No. 1,127,297; Feb. 2; Gaz. vol. 211; p. 222.
- Collar. J. Sprinc. No. 1,158,118; Nov. 2; Gaz. vol. 220; p. 244.
- Collar. A. B. Stafford. No. 1,137,241; Apr. 27; Gaz. vol. 213; p. 1242.
- Collar and hames, Combined horse. M. R. Cowell. No. 1,164,071; Dec. 14; Gaz. vol. 221; p. 514.
- Collar and necktie case. G. L. Osgood. No. 1,163,683; Dec. 14; Gaz. vol. 221; p. 376.
- Collar attachment. J. I. Van Tochine. No. 1,147,577; July 20; Gaz. vol. 216; p. 951.
- Collar-band. W. J. Davidson. No. 1,154,909; Sept. 28; Gaz. vol. 218; p. 989.
- Collar-box, Combination. C. G. Hall. No. 1,132,578; Mar. 23; Gaz. vol. 212; p. 1081.
- Collar, Breast-. U. G. Speed. No. 1,148,632; Aug. 3; Gaz. vol. 217; p. 54.

Alphabetical list of inventions—Continued.

- Collar-clip. L. C. Weichman. No. 1,139,452; May 11; Gaz. vol. 214; p. 646.
- Collar-container. W. R. Buxton. No. 1,159,743; Nov. 9; Gaz. vol. 220; p. 500.
- Collar, Dog-. P. Hughes. No. 1,127,249; Feb. 2; Gaz. vol. 211; p. 206.
- Collar-fastener. F. S. Chasey. No. 1,128,658; Feb. 16; Gaz. vol. 211; p. 787.
- Collar-fastener. C. Tooley. No. 1,148,204; July 27; Gaz. vol. 216; p. 1199.
- Collar-fastener. W. F. Wallace. No. 1,147,057; July 20; Gaz. vol. 216; p. 770.
- Collar-fastener, Triple-hook. F. E. Sprague. No. 1,140,541; May 25; Gaz. vol. 214; p. 1102.
- Collar-finishing machine. F. W. Nevens. No. 1,134,548; Apr. 6; Gaz. vol. 213; p. 170.
- Collar-folding machine. C. J. Frankard, Jr. No. 1,153,337; Sept. 14; Gaz. vol. 218; p. 381.
- Collar for coats, Detachable storm-. H. F. Cates. No. 1,160,378; Nov. 16; Gaz. vol. 220; p. 776.
- Collar for garments. S. A. Myers. No. 1,156,090; Oct. 12; Gaz. vol. 219; p. 293.
- Collar-forming machine. J. J. Seltenreich. No. 1,157,329; Oct. 19; Gaz. vol. 219; p. 756.
- Collar, Hameless horse-. J. D. Aaron. No. 1,143,015; June 15; Gaz. vol. 215; p. 753.
- Collar, Horse-. J. J. Baarson and A. T. Thorson. No. 1,144,682; June 29; Gaz. vol. 215; p. 1383.
- Collar, Horse-. H. J. Daniel. No. 1,125,820; Jan. 19; Gaz. vol. 210; p. 1004.
- Collar, Horse-. A. W. Davis. No. 1,160,861; Nov. 16; Gaz. vol. 220; p. 949.
- Collar, Horse-. C. Eckerle. No. 1,146,057; July 13; Gaz. vol. 216; p. 399.
- Collar, Horse-. C. Eckerle. No. 1,148,667; Aug. 3; Gaz. vol. 217; p. 66.
- Collar, Horse-. J. G. Friberg. No. 1,129,659; Feb. 23; Gaz. vol. 211; p. 1172.
- Collar, Horse-. H. C. Guttridge. No. 1,159,665; Nov. 9; Gaz. vol. 220; p. 471.
- Collar, Horse-. H. C. Guttridge. No. 1,159,666; Nov. 9; Gaz. vol. 220; p. 471.
- Collar, Horse-. R. S. Mason. No. 1,155,943; Oct. 5; Gaz. vol. 219; p. 214.
- Collar, Horse-. W. A. Parr. No. 1,153,852; Sept. 14; Gaz. vol. 218; p. 565.
- Collar, Horse-. F. Schenkenberg. No. 1,143,728; June 22; Gaz. vol. 215; p. 1024.
- Collar, Horse-. T. Schock. No. 1,157,425; Oct. 19; Gaz. vol. 219; p. 792.
- Collar-pad. W. L. Stansberry. No. 1,146,534; July 13; Gaz. vol. 216; p. 568.
- Collar-pad, Metal. J. L. Dunn. No. 1,136,780; Apr. 20; Gaz. vol. 213; p. 1038.
- Collar-reducer. A. Morganfield. No. 1,156,307; Oct. 12; Gaz. vol. 219; p. 364.
- Collar, Shaft-. C. F. Starliper. No. 1,151,131; Aug. 24; Gaz. vol. 217; p. 1156.
- Collar shaping and edging machine. S. S. Matthes. No. 1,157,321; Oct. 19; Gaz. vol. 219; p. 754.
- Collar, Soft fold-over. R. Sudiah. No. 1,154,943; Sept. 28; Gaz. vol. 218; p. 1001.
- Collar-spacer. T. J. Buerger. No. 1,137,571; Apr. 27; Gaz. vol. 213; p. 1358.
- Collar stiffener, Horse-. T. Q. Jones. No. 1,135,190; Apr. 13; Gaz. vol. 213; p. 438.
- Collar-stuffing machine, Horse-. J. D. Randall. No. 1,151,714; Aug. 31; Gaz. vol. 217; p. 1401.
- Collar-support. D. Basch. No. 1,133,457; Mar. 30; Gaz. vol. 212; p. 1435.
- Collar-support. G. B. Smith. No. 1,143,453; June 15; Gaz. vol. 215; p. 907.
- Collar-support. P. H. Thorandt and A. Kohn. No. 1,154,550; Sept. 21; Gaz. vol. 218; p. 838.
- Collar support or adjuster, Soft-. R. S. Noakes. No. 1,133,880; Mar. 30; Gaz. vol. 212; p. 1589.
- Collar support, Shirt-. M. F. Scofield. No. 1,123,936; Jan. 5; Gaz. vol. 210; p. 251.
- Collar support, Soft-. W. E. Oliver. No. 1,123,573; Jan. 5; Gaz. vol. 210; p. 128.
- Collar-supporter. A. M. Grean. No. 1,159,931; Nov. 9; Gaz. vol. 220; p. 568.
- Collar supporting and fastening device. C. L. Taylor and G. A. Daidy. No. 1,128,635; Feb. 16; Gaz. vol. 211; p. 778.
- Collar-tipping machine. A. T. Hagen and G. Binder. No. 1,144,541; June 29; Gaz. vol. 215; p. 1335.
- Collar, Wing-. H. Bryce. No. 1,152,483; Sept. 7; Gaz. vol. 218; p. 37.
- Collar with tie-slide. W. A. Brown. No. 1,132,555; Mar. 23; Gaz. vol. 212; p. 1072.
- Collars, cuffs, and the like, Blank-folding machine for the manufacture of. M. M. Clearwater, J. Temple, and J. H. Ramsey. No. 1,149,184; Aug. 10; Gaz. vol. 217; p. 349.
- Collars, Forming curved tubular casings for horse-. L. J. Powers. No. 1,134,289; Apr. 6; Gaz. vol. 213; p. 76.
- Collars on collar-bands of shirts, Device for holding. M. Katz. No. 1,126,480; Jan. 26; Gaz. vol. 210; p. 1273.
- Collection and delivery apparatus. J. F. Montine. No. 1,132,863; Mar. 23; Gaz. vol. 212; p. 1187.
- Collection device. F. W. Lancaster. No. 1,142,891; June 15; Gaz. vol. 215; p. 709.
- Collision-prevention device. C. Martin. No. 1,156,366; Oct. 12; Gaz. vol. 219; p. 387.
- Colloidal substances, Drying. G. B. Bradshaw. No. 1,161,603; Nov. 23; Gaz. vol. 220; p. 1257.
- Color-cartridge. A. E. Nienstadt. No. 1,155,676; Oct. 5; Gaz. vol. 219; p. 122.
- Color-lakes. P. Thomaschewski and P. Tust. No. 1,126,664; Jan. 26; Gaz. vol. 210; p. 1342.
- Color-lakes, Alumina. P. Tust. No. 1,126,591; Jan. 26; Gaz. vol. 210; p. 1317.
- Color-lakes, Manufacture of. A. E. Gessler. No. 1,157,525; Oct. 19; Gaz. vol. 219; p. 826.
- Color-mixing apparatus. O. Schutz. No. 1,133,065; Mar. 23; Gaz. vol. 212; p. 1261.
- Color, Sulfur. J. Flachslaender, K. P. Gralert, and M. Buff. No. 1,132,922; Mar. 23; Gaz. vol. 212; p. 1207.
- Colors, Method of and apparatus for matching of. M. R. Pevear. No. 1,131,265; Mar. 9; Gaz. vol. 212; p. 528.
- Coloring-matter, Azo. K. Desamari. No. 1,125,073; Jan. 19; Gaz. vol. 210; p. 737.
- Coloring-matter, Azo. W. Neelmeier and A. Sigwart. No. 1,128,814; Feb. 16; Gaz. vol. 211; p. 840.
- Coloring-matter, Blue trisazo. A. Blank, C. Heidenrich, and J. Janssen. No. 1,125,050; Jan. 19; Gaz. vol. 210; p. 729.
- Coloring-matters, Azo. H. Jordan and W. Neelmeier. No. 1,147,803; July 27; Gaz. vol. 216; p. 1055.
- Coloring-matters of the anthraquinone series, Production of. H. Wolff. No. 1,133,081; Mar. 23; Gaz. vol. 212; p. 1267.
- Colter. S. H. Phelps. No. 1,149,945; Aug. 10; Gaz. vol. 217; p. 625.
- Colter attachment for gang-plows. J. Heitbrink. No. 1,136,525; Apr. 20; Gaz. vol. 213; p. 948.
- Colter attachment for lister-plows. G. L. Mosely. No. 1,137,162; Apr. 27; Gaz. vol. 213; p. 1212.
- Colter cleaner, Rolling-. W. J. Lee. No. 1,142,185; June 8; Gaz. vol. 215; p. 423.
- Colter for plows, Adjustable. J. F. Schainost. No. 1,135,403; Apr. 13; Gaz. vol. 213; p. 570.
- Colter, Plow-. O. Hough. No. 1,123,535; Jan. 5; Gaz. vol. 210; p. 116.
- Colter-scraper. W. J. Lee. No. 1,148,390; July 27; Gaz. vol. 216; p. 1266.
- Column. H. C. Drumm. No. 1,130,805; Mar. 9; Gaz. vol. 212; p. 370.
- Column-clamp. I. G. Engstrom. No. 1,164,335; Dec. 14; Gaz. vol. 221; p. 605.
- Column-footing. W. P. Anderson. No. 1,137,108; Apr. 27; Gaz. vol. 213; p. 1193.
- Column-forming machine. H. C. Drumm. No. 1,158,794; Nov. 2; Gaz. vol. 220; p. 135.
- Column, &c., Metallic. J. O. Ellinger. No. 1,141,385; June 1; Gaz. vol. 215; p. 107.
- Column-mold. P. A. and L. P. Deslauriers. No. 1,143,107; June 15; Gaz. vol. 215; p. 785.
- Column-reinforcement and making the same. C. A. P. Turner. No. 1,159,297; Nov. 2; Gaz. vol. 220; p. 309.
- Column-top mold. W. M. Venable. No. 1,129,145; Feb. 23; Gaz. vol. 211; p. 993.
- Column, Wooden. H. J. Beabes. No. 1,126,351; Jan. 26; Gaz. vol. 210; p. 1228.
- Columns, Apparatus for constructing plastic. A. G. Higgins. No. 1,156,077; Oct. 12; Gaz. vol. 219; p. 288.
- Comb. Sec—
- | | |
|---------------------|----------------------------------|
| Absorbent comb. | Sanitary and self-cleaning comb. |
| Currycomb. | Self-cleaning comb. |
| Hair-cleaning comb. | |
| Hair-drying comb. | |
- Comb. W. S. Bechtold. No. 1,153,669; Sept. 14; Gaz. vol. 218; p. 500.
- Comb. E. W. Grove. No. 1,166,361; Dec. 28; Gaz. vol. 221; p. 1397.
- Comb. L. M. Kellett. No. 1,155,247; Sept. 28; Gaz. vol. 218; p. 1105.
- Comb. C. North, C. J. Minning, and T. McWeeny. No. 1,159,789; Nov. 9; Gaz. vol. 220; p. 518.
- Comb-cleaner. T. C. Bamfield and G. Rechter. No. 1,133,910; Mar. 30; Gaz. vol. 212; p. 1597.
- Comb-head. I. B. Hubbard and C. E. Williams. No. 1,165,177; Dec. 21; Gaz. vol. 221; p. 941.
- Combs, Manufacture of hollow. C. Bensinger. No. 1,124,691; Jan. 12; Gaz. vol. 210; p. 567.
- Comber-board. E. Seckler. No. 1,150,396; Aug. 17; Gaz. vol. 217; p. 846.
- Comber, Heilman-type cotton-. G. M. Whitin. No. 1,131,976; Mar. 16; Gaz. vol. 212; p. 814.
- Combing-machine. M. Böhmer. No. 1,164,458; Dec. 14; Gaz. vol. 221; p. 649.
- Combing-machine. R. B. Chace. No. 1,133,006; Mar. 23; Gaz. vol. 212; p. 1240.
- Combing-machine. J. Jolly and P. E. Willis. No. 1,126,774; Feb. 2; Gaz. vol. 211; p. 38.
- Combing-machine. M. H. Piper. No. 1,130,928; Mar. 9; Gaz. vol. 212; p. 413.
- Combing-machine. C. Schleifer. No. 1,129,737; Feb. 23; Gaz. vol. 211; p. 1197.
- Combing machine, Wool-. T. H. Friend and J. F. Reynolds. No. 1,128,968; Feb. 16; Gaz. vol. 211; p. 896.

- Combing-machines, Driving mechanism for the drawing-off or detaching rollers of. P. A. Helmbold and J. Weinbrenner. No. 1,156,225; Oct. 12; Gaz. vol. 219; p. 337.
- Combing or the like, Dabbing mechanism used in wool-. E. and J. Greenwood. (Reissue.) No. 13,883; Feb. 23; Gaz. vol. 211; p. 1231.
- Combination-lock. N. S. G. Besharov. No. 1,144,887; June 29; Gaz. vol. 215; p. 1456.
- Combination-lock. W. W. Chenard. No. 1,129,641; Feb. 23; Gaz. vol. 211; p. 1167.
- Combination-lock. J. A. Elsesor. No. 1,147,794; July 27; Gaz. vol. 216; p. 1052.
- Combination-lock. A. Leonard. No. 1,146,720; July 13; Gaz. vol. 216; p. 630.
- Combination-lock. R. C. Lewis. No. 1,145,377; July 6; Gaz. vol. 216; p. 140.
- Combination-lock. D. J. Newman. No. 1,136,357; Apr. 20; Gaz. vol. 213; p. 887.
- Combination-lock. W. H. Shelbourne, E. W. Quisenberg, and P. Dickerson. No. 1,126,660; Jan. 26; Gaz. vol. 210; p. 1340.
- Combination-shovel. E. MacAdam. No. 1,148,180; July 27; Gaz. vol. 216; p. 1192.
- Combination-switch. A. F. Wise. No. 1,156,121; Oct. 12; Gaz. vol. 219; p. 303.
- Combining and emulsifying substances, Device for. J. B. Vogelsang. No. 1,140,548; May 25; Gaz. vol. 214; p. 1105.
- Combustible matter from refuse, Extracting or sorting. G. Hidoux. No. 1,142,706; June 8; Gaz. vol. 215; p. 604.
- Combustion. H. L. Doherty. No. 1,145,358; July 6; Gaz. vol. 216; p. 132.
- Combustion and heat regulation and regeneration. H. L. Doherty. No. 1,123,500; Jan. 5; Gaz. vol. 210; p. 103.
- Combustion apparatus. J. S. Cox. No. 1,140,802; May 25; Gaz. vol. 214; p. 1189.
- Combustion apparatus. A. Rector. No. 1,144,783; June 29; Gaz. vol. 215; p. 1419.
- Combustion apparatus. A. Rector. No. 1,144,785; June 29; Gaz. vol. 215; p. 1420.
- Combustion-chamber wall. H. Junkers. No. 1,125,113; Jan. 19; Gaz. vol. 210; p. 751.
- Combustion, Conducting. H. L. Doherty. No. 1,145,357; July 6; Gaz. vol. 216; p. 132.
- Combustion device. W. S. Barnett. No. 1,152,691; Sept. 7; Gaz. vol. 218; p. 114.
- Combustion device. O. G. Halliburton. No. 1,135,688; Apr. 13; Gaz. vol. 213; p. 612.
- Combustion device. S. W. Parr. No. 1,136,361; Apr. 20; Gaz. vol. 213; p. 889.
- Combustion, Device for detecting incomplete. A. E. Carr. No. 1,143,889; June 22; Gaz. vol. 215; p. 1080.
- Combustion-engine. A. Balloco. No. 1,124,193; Jan. 5; Gaz. vol. 210; p. 339.
- Combustion-engine. A. Büchi. No. 1,142,873; June 15; Gaz. vol. 215; p. 702.
- Combustion-engine. G. Fornaca. No. 1,146,788; July 20; Gaz. vol. 216; p. 674.
- Combustion-engine. G. Fornaca. No. 1,157,769; Oct. 26; Gaz. vol. 219; p. 971.
- Combustion-engine. W. A. Sorg. No. 1,147,455; July 20; Gaz. vol. 216; p. 909.
- Combustion-engine. W. A. Sorg. No. 1,153,526; Sept. 14; Gaz. vol. 218; p. 451.
- Combustion-engine. W. A. Sorg. No. 1,161,353; Nov. 23; Gaz. vol. 220; p. 1170.
- Combustion-engine. W. A. Sorg. No. 1,161,354; Nov. 23; Gaz. vol. 220; p. 1171.
- Combustion-engine. G. Westinghouse. No. 1,148,206; July 27; Gaz. vol. 216; p. 1200.
- Combustion-engine, Two-stroke-cycle. T. Reid. No. 1,152,659; Sept. 7; Gaz. vol. 218; p. 103.
- Combustion, Jetting method of. A. Rector. No. 1,144,784; June 29; Gaz. vol. 215; p. 1419.
- Combustion, Means for promoting. F. Olsen and A. Lyberg. No. 1,146,093; July 13; Gaz. vol. 216; p. 412.
- Combustion, Method of. A. Rector. No. 1,144,782; June 29; Gaz. vol. 215; p. 1419.
- Combustion products under pressure, Means for generating. W. J. Galbraith and J. Eaglesham. No. 1,163,333; Dec. 7; Gaz. vol. 221; p. 210.
- Combustion, Promoting. M. A. Malloy, (now by judicial change of name M. A. Taylor.) No. 1,152,333; Aug. 31; Gaz. vol. 217; p. 1616.
- Combustion-tube, Perforated. H. Ruppel. No. 1,159,102; Nov. 2; Gaz. vol. 220; p. 239.
- Combustion-tubes, Means for raising and lowering. E. Boekenkamp. No. 1,128,937; Feb. 16; Gaz. vol. 211; p. 885.
- Comminuted material, Process of and apparatus for classifying. H. N. Sutton and W. L. and E. G. Steele. No. 1,136,293; Apr. 20; Gaz. vol. 213; p. 865.
- Comminuted materials, Process of and apparatus for sizing or classifying. H. M. Sutton and W. L. and E. G. Steele. No. 1,141,852; June 1; Gaz. vol. 215; p. 266.
- Commode. G. W. Hardin. No. 1,150,862; Aug. 24; Gaz. vol. 217; p. 1066.
- Commodity, Combination. E. H. Galligan. No. 1,132,328; Mar. 16; Gaz. vol. 212; p. 943.
- Communionservice. J. Schaub. No. 1,156,319; Oct. 12; Gaz. vol. 219; p. 368.
- Commutating device for dynamo-electric machines. M. Walker. No. 1,158,598; Nov. 2; Gaz. vol. 220; p. 67.
- Commutator. H. W. Turner. No. 1,157,912; Oct. 26; Gaz. vol. 219; p. 1022.
- Commutator for dynamo-machines. C. A. Vandervell and A. H. Midgley. No. 1,143,666; June 22; Gaz. vol. 215; p. 1004.
- Commutator-machine, Stabilized. A. Scherblus. No. 1,164,223; Dec. 14; Gaz. vol. 221; p. 564.
- Commutator-machine, Variable-frequency. A. Scherblus. No. 1,127,290; Feb. 2; Gaz. vol. 211; p. 220.
- Commutator-motor. H. K. Schrage. (Reissue.) No. 14,031; Dec. 14; Gaz. vol. 221; p. 703.
- Commutator-turning tool. J. Moles. No. 1,158,532; Nov. 2; Gaz. vol. 220; p. 44.
- Compass. J. A. Howe. No. 1,136,232; Apr. 20; Gaz. vol. 213; p. 843.
- Compass, Azimuth. J. F. Cole. No. 1,145,056; July 6; Gaz. vol. 216; p. 30.
- Compass, Gyroscopic. A. S. Chessin. No. 1,137,258; Apr. 27; Gaz. vol. 213; p. 1248.
- Compass, Recording-. M. B. Benson. No. 1,131,622; Mar. 9; Gaz. vol. 212; p. 651.
- Compass tool, Caliper-. B. A. Burns. No. 1,162,748; Dec. 7; Gaz. vol. 221; p. 6.
- Compasses. J. Novak. No. 1,140,844; May 25; Gaz. vol. 214; p. 1204.
- Compasses. A. M. Struble. No. 1,160,782; Nov. 16; Gaz. vol. 220; p. 922.
- Compasses and dividers, Combination. T. Chabre. No. 1,140,800; May 25; Gaz. vol. 214; p. 1188.
- Compasses for describing ellipses. G. B. Cirigliano. No. 1,128,289; Feb. 16; Gaz. vol. 211; p. 660.
- Compasses or dividers. C. E. Hand. No. 1,145,016; July 6; Gaz. vol. 216; p. 14.
- Compensating device. J. E. Engleson. No. 1,126,433; Jan. 26; Gaz. vol. 210; p. 1256.
- Compo-board, Manufacturing. G. W. Beadle. No. 1,125,445; Jan. 19; Gaz. vol. 210; p. 872.
- Composing and casting machine, Line. W. E. Bertram. No. 1,161,796; Nov. 23; Gaz. vol. 220; p. 1323.
- Composing and casting machines, Rebound-check for line. W. R. Brack. No. 1,161,798; Nov. 23; Gaz. vol. 220; p. 1324.
- Composing and type-casting machine, Line-. S. E. Sperry. No. 1,124,180; Jan. 5; Gaz. vol. 210; p. 334.
- Composing-machine. H. H. Hardinge. No. 1,131,643; Mar. 9; Gaz. vol. 212; p. 661.
- Composing machine, Line-. T. S. Homans. No. 1,153,079; Sept. 7; Gaz. vol. 218; p. 253.
- Composing-machine, Record-strip. J. S. Bancroft and M. C. Indahl. No. 1,149,175; Aug. 10; Gaz. vol. 217; p. 346.
- Composing-machine, Record-strip. L. M. Walden. No. 1,149,232; Aug. 10; Gaz. vol. 217; p. 367.
- Composing machines, Escapement mechanism for line-. H. A. Armstrong. No. 1,152,688; Sept. 7; Gaz. vol. 218; p. 113.
- Composing machines, Galley mechanism for type-. J. S. Bancroft and M. C. Indahl. No. 1,149,177; Aug. 10; Gaz. vol. 217; p. 347.
- Composing machines, Galley mechanism for type-. M. C. Indahl. No. 1,149,197; Aug. 10; Gaz. vol. 217; p. 354.
- Composing machines, Galley mechanism for type-. M. C. Indahl and A. L. Knight. No. 1,149,198; Aug. 10; Gaz. vol. 217; p. 355.
- Composing machines, Magazine-entrance guide for line-. S. E. Sperry. No. 1,130,641; Mar. 2; Gaz. vol. 212; p. 279.
- Composing machines, Matrix-delivery mechanism for line-. K. S. Reist. No. 1,146,653; July 13; Gaz. vol. 216; p. 608.
- Composing-machines, Mechanism for removing ribs from the die-cylinders of record-strip. F. Sally. No. 1,140,854; May 25; Gaz. vol. 214; p. 1209.
- Composing mechanism, Controller. J. S. Bancroft and M. C. Indahl. No. 1,149,176; Aug. 10; Gaz. vol. 217; p. 347.
- Composite block. S. J. Anderson. No. 1,132,996; Mar. 23; Gaz. vol. 212; p. 1236.
- Composite utensil. S. Peter. No. 1,135,318; Apr. 13; Gaz. vol. 213; p. 481.
- Composition of matter. B. B. Goldsmith. No. 1,152,625; Sept. 7; Gaz. vol. 218; p. 90.
- Composition of matter. V. Lograsso. No. 1,160,731; Nov. 16; Gaz. vol. 220; p. 904.
- Composition of matter and producing same. F. Meyer. No. 1,129,109; Feb. 23; Gaz. vol. 211; p. 981.
- Compound bolt. J. A. Fraenheim. No. 1,135,515; Apr. 13; Gaz. vol. 213; p. 550.
- Compound engine, Combined. J. Combs. No. 1,141,173; June 1; Gaz. vol. 215; p. 29.
- Compound sheets, Method and apparatus for producing. J. Peterson. No. 1,137,279; Apr. 27; Gaz. vol. 213; p. 1255.
- Compressed-air and suction water-elevator. W. L. Jones. No. 1,135,023; Apr. 13; Gaz. vol. 213; p. 381.
- Compressed-air clstern. W. T. Clark. No. 1,162,572; Nov. 30; Gaz. vol. 220; p. 1638.
- Compressing-machine. W. M. Gentile. No. 1,161,305; Nov. 23; Gaz. vol. 220; p. 1153.

Alphabetical list of inventions—Continued.

- Compressing-machine. J. E. Glidden. No. 1,147,160; July 20; Gaz. vol. 216; p. 804.
- Compressing-machine. T. Lund. No. 1,130,749; Mar. 9; Gaz. vol. 212; p. 351.
- Compressing-rolls and mountings therefor. P. H. Schendler. No. 1,137,028; Apr. 27; Gaz. vol. 213; p. 1164.
- Compression and suction device. J. B. Vernon and M. J. Siefert. No. 1,142,544; June 8; Gaz. vol. 215; p. 550.
- Compression-coupling. C. H. Duffy. No. 1,143,815; June 22; Gaz. vol. 215; p. 1054.
- Compression-coupling. C. H. Duffy. No. 1,143,816; June 22; Gaz. vol. 215; p. 1054.
- Compressor. W. W. Brown. No. 1,142,299; June 8; Gaz. vol. 215; p. 462.
- Compressor. S. Cooper. No. 1,155,798; Oct. 5; Gaz. vol. 219; p. 166.
- Compressor. H. Dechamps. No. 1,158,030; Oct. 26; Gaz. vol. 219; p. 1064.
- Compressor. C. H. Leinert. No. 1,123,327; Jan. 5; Gaz. vol. 210; p. 45.
- Compressor. G. F. Steedman. No. 1,159,123; Nov. 2; Gaz. vol. 220; p. 246.
- Compressor, Centrifugal. S. A. Moss. No. 1,156,613; Oct. 12; Gaz. vol. 219; p. 473.
- Compressor cooler, Rotary. W. Grun. No. 1,126,004; Jan. 26; Gaz. vol. 210; p. 1101.
- Compressor-governor. J. L. Osborne. No. 1,136,607; Apr. 20; Gaz. vol. 213; p. 977.
- Compressor, Multistage. A. C. E. Rateau. No. 1,140,065; May 18; Gaz. vol. 214; p. 900.
- Compressor, Rotary. C. F. Hettinger. No. 1,136,957; Apr. 27; Gaz. vol. 213; p. 1137.
- Compressor, Rotary. W. Shore. No. 1,153,874; Sept. 14; Gaz. vol. 218; p. 574.
- Compressor unloading device. H. W. Cheney. No. 1,133,792; Mar. 30; Gaz. vol. 212; p. 1556.
- Compressors, Air-regulating device for centrifugal. C. P. Crissey. No. 1,141,938; June 8; Gaz. vol. 215; p. 336.
- Compressors, Regulating device for mixed-pressure turbo. R. H. Rice. No. 1,154,594; Sept. 21; Gaz. vol. 218; p. 855.
- Compressors, Regulating device for motor-driven. F. L. Luckner and A. O. Carpenter. No. 1,129,878; Mar. 2; Gaz. vol. 212; p. 16.
- Compressors, Regulating means for centrifugal. O. Banner. No. 1,154,959; Sept. 28; Gaz. vol. 218; p. 1006.
- Computer, Library-fine. H. S. Hirschberg. No. 1,149,516; Aug. 10; Gaz. vol. 217; p. 469.
- Computing and recording machine. S. F. Smith. No. 1,152,664; Sept. 7; Gaz. vol. 218; p. 105.
- Computing and writing machine. W. W. Hopkins. No. 1,133,029; Mar. 23; Gaz. vol. 212; p. 1249.
- Computing circumferences or fractions thereof, Means for. L. J. R. Holst. No. 1,148,588; Aug. 3; Gaz. vol. 217; p. 37.
- Computing device. P. F. W. C. Krippendorff. No. 1,142,182; June 8; Gaz. vol. 215; p. 422.
- Computing device. H. Oberg. No. 1,153,565; Sept. 14; Gaz. vol. 218; p. 465.
- Computing device. A. C. Sargent. No. 1,150,228; Aug. 17; Gaz. vol. 217; p. 788.
- Computing device. W. I. Webber. No. 1,138,817; May 11; Gaz. vol. 214; p. 424.
- Computing instrument. Y. Wang. No. 1,160,798; Nov. 16; Gaz. vol. 220; p. 927.
- Computing instrument. J. J. White. No. 1,163,294; Dec. 7; Gaz. vol. 221; p. 195.
- Computing-machine. C. A. Jacobson. No. 1,149,143; Aug. 3; Gaz. vol. 217; p. 230.
- Computing-machine. H. W. Jones. No. 1,140,684; May 25; Gaz. vol. 214; p. 1149.
- Computing-machine. C. R. Rings. No. 1,158,854; Nov. 2; Gaz. vol. 220; p. 157.
- Computing-machine. D. W. Shiek. No. 1,143,447; June 15; Gaz. vol. 215; p. 905.
- Computing-machine. D. W. Shiek. No. 1,151,055; Aug. 24; Gaz. vol. 217; p. 1131.
- Computing-machine. J. N. Thornton. No. 1,146,371; July 13; Gaz. vol. 216; p. 508.
- Computing-machine counting device. J. E. W. Greve. No. 1,128,972; Feb. 16; Gaz. vol. 211; p. 898.
- Computing-machine counting device. J. E. W. Greve. No. 1,128,973; Feb. 16; Gaz. vol. 211; p. 898.
- Computing-machine, Keyboard. C. Wales. No. 1,154,355; Sept. 21; Gaz. vol. 218; p. 773.
- Computing-machine or the like. D. W. Shiek. No. 1,136,725; Apr. 20; Gaz. vol. 213; p. 1019.
- Computing-machine or the like. D. W. Shiek. No. 1,149,472; Aug. 10; Gaz. vol. 217; p. 453.
- Computing-machine stands, Foldable slip-tray. H. E. Lewis. No. 1,166,062; Dec. 28; Gaz. vol. 221; p. 1286.
- Computing-machines, Paper-carriage-shifting mechanism for. J. E. W. Greve. No. 1,144,192; June 22; Gaz. vol. 215; p. 1187.
- Computing-machines, Totalizing mechanism for. J. E. W. Greve. No. 1,127,434; Feb. 9; Gaz. vol. 211; p. 310.
- Computing mechanism. A. G. Snyder. No. 1,132,804; Mar. 23; Gaz. vol. 212; p. 1166.
- Computing merchandise-cutter. F. M. Wilson. No. 1,155,183; Sept. 28; Gaz. vol. 218; p. 1086.
- Computing the cost of engravings, Device for. E. I. Kramer. No. 1,158,508; Nov. 2; Gaz. vol. 220; p. 35.
- Computing valuations of investment securities, Device for. C. A. Richmond. No. 1,157,043; Oct. 19; Gaz. vol. 219; p. 655.
- Concaving-machine cutter. J. Strootman. No. 1,153,461; Sept. 14; Gaz. vol. 218; p. 427.
- Concentrating-table. R. Hunter. No. 1,151,466; Aug. 24; Gaz. vol. 217; p. 1269.
- Concentrating-tables, Rocking support for. E. Deister. No. 1,135,965; Apr. 13; Gaz. vol. 213; p. 709.
- Concentrator. J. F. Isbell. No. 1,163,344; Dec. 7; Gaz. vol. 221; p. 214.
- Concentrator. A. J. Matter. No. 1,161,945; Nov. 30; Gaz. vol. 220; p. 1423.
- Concentrator. C. F. Paige. No. 1,140,764; May 25; Gaz. vol. 214; p. 1176.
- Concentrator, Combined batea, jig, and pan-motion. K. Senn. No. 1,141,419; June 1; Gaz. vol. 215; p. 120.
- Concentrator head-motion. J. F. Isbell. No. 1,163,345; Dec. 7; Gaz. vol. 221; p. 214.
- Concentrator head-motion. W. H. Reagan, Jr., and J. R. McMurray. No. 1,159,272; Nov. 2; Gaz. vol. 220; p. 299.
- Concentrator, Pan-motion. C. H. Muhleman. No. 1,141,972; June 8; Gaz. vol. 215; p. 346.
- Concentrator-tables and applying the same, Protective covering for. E. A. Baylis. (Reissue.) No. 1,398,1; Sept. 21; Gaz. vol. 218; p. 855.
- Concrete and masonry structure, Reinforced. W. C. Ricketts. No. 1,128,514; Feb. 16; Gaz. vol. 211; p. 737.
- Concrete and other plastic materials, Mixer and spreader for. F. E. Raleigh. No. 1,142,841; June 15; Gaz. vol. 215; p. 690.
- Concrete and steel construction. W. C. Parmley. No. 1,131,646; Mar. 9; Gaz. vol. 212; p. 662.
- Concrete, Apparatus for manufacture of posts and the like of reinforced. R. Panzl. No. 1,152,210; Aug. 31; Gaz. vol. 217; p. 1573.
- Concrete articles, Machine for manufacturing. P. B. Jagger. No. 1,142,522; June 8; Gaz. vol. 215; p. 543.
- Concrete-basement-wall mold. J. W. Keenan. No. 1,142,887; June 15; Gaz. vol. 215; p. 707.
- Concrete block, Hollow. A. G. Higgins. No. 1,148,228; July 27; Gaz. vol. 216; p. 1207.
- Concrete-block machine. J. Rotarius. No. 1,127,521; Feb. 9; Gaz. vol. 211; p. 340.
- Concrete-block machine, Multimolding. F. H. Folden. No. 1,157,522; Oct. 19; Gaz. vol. 219; p. 824.
- Concrete-block-making apparatus. W. H. Barten. No. 1,166,312; Dec. 28; Gaz. vol. 221; p. 1380.
- Concrete-block-making machine. W. Graf and C. F. Nickel. No. 1,142,696; June 8; Gaz. vol. 215; p. 600.
- Concrete-block-making machine. G. W. Kramer. No. 1,164,726; Dec. 21; Gaz. vol. 221; p. 781.
- Concrete-block mold, Tongue-and-groove. J. J. Hostetter and W. O. Rice. No. 1,153,846; Sept. 14; Gaz. vol. 218; p. 563.
- Concrete bricks or blocks, Mold for poured. W. D. Moore. No. 1,140,840; May 25; Gaz. vol. 214; p. 1203.
- Concrete building. W. C. Broughton. No. 1,155,037; Sept. 28; Gaz. vol. 218; p. 1032.
- Concrete building. W. C. Broughton. No. 1,155,038; Sept. 28; Gaz. vol. 218; p. 1032.
- Concrete building. W. B. Featherstone. No. 1,124,404; Jan. 12; Gaz. vol. 210; p. 462.
- Concrete building. H. E. Willis. No. 1,152,253; Aug. 31; Gaz. vol. 217; p. 1588.
- Concrete-building-block-molding machine. O. Nolan. No. 1,151,531; Aug. 24; Gaz. vol. 217; p. 1293.
- Concrete building construction. J. O. Davison. No. 1,141,445; June 1; Gaz. vol. 215; p. 128.
- Concrete building construction. K. R. Schuster. No. 1,134,164; Apr. 6; Gaz. vol. 213; p. 29.
- Concrete building construction, Reinforced. F. M. Barton. No. 1,155,461; Oct. 5; Gaz. vol. 219; p. 48.
- Concrete building construction, Reinforced. G. B. Waite. No. 1,141,160; June 1; Gaz. vol. 215; p. 24.
- Concrete building, Reinforced. C. M. Leonard. No. 1,128,011; Feb. 9; Gaz. vol. 211; p. 513.
- Concrete buildings, Constructing. S. I. Bush. No. 1,163,210; Dec. 7; Gaz. vol. 221; p. 166.
- Concrete buildings, Mold for use in the construction of. W. H. Roughsedge. No. 1,153,447; Sept. 14; Gaz. vol. 218; p. 422.
- Concrete-burial-vault mold. W. G. Lerch. No. 1,164,106; Dec. 14; Gaz. vol. 221; p. 526.
- Concrete burial-vaults, Molding-machine for. F. J. Paffner. No. 1,123,586; Jan. 5; Gaz. vol. 210; p. 132.
- Concrete-casing. J. W. Kenny. No. 1,157,226; Oct. 19; Gaz. vol. 219; p. 720.
- Concrete cell for the electrolysis of salt, &c. N. Statham. No. 1,125,201; Jan. 19; Gaz. vol. 210; p. 783.
- Concrete-column clamp. F. Kees. No. 1,148,322; July 27; Gaz. vol. 216; p. 1242.
- Concrete-column mold. C. L. Meyer. No. 1,154,998; Sept. 28; Gaz. vol. 218; p. 1019.
- Concrete columns, Apparatus for constructing. H. S. Taft. No. 1,139,384; May 11; Gaz. vol. 214; p. 622.
- Concrete columns, Apparatus for forming. J. Peterson. No. 1,126,853; Feb. 2; Gaz. vol. 211; p. 68.

Alphabetical list of inventions—Continued.

- Concrete construction. W. P. Francis. No. 1,143,527; June 15; Gaz. vol. 215; p. 930.
- Concrete construction. J. H. Knox. No. 1,142,259; June 8; Gaz. vol. 215; p. 450.
- Concrete construction. F. M. Vogan. No. 1,141,671; June 1; Gaz. vol. 215; p. 208.
- Concrete-construction apparatus. S. L. Fraser and A. E. Jacobson. No. 1,165,586; Dec. 28; Gaz. vol. 221; p. 1120.
- Concrete-construction apparatus. G. S. Mumford. No. 1,143,429; June 15; Gaz. vol. 215; p. 900.
- Concrete construction, Centering-form for reinforced. G. E. Dale. No. 1,131,479; Mar. 9; Gaz. vol. 212; p. 602.
- Concrete construction, Corner-form for. J. H. Foy. No. 1,129,658; Feb. 23; Gaz. vol. 211; p. 1172.
- Concrete construction, Deformed bar for reinforced. G. E. Dale and E. A. Tucker. No. 1,164,477; Dec. 14; Gaz. vol. 221; p. 655.
- Concrete-construction form. J. O. Ellinger. No. 1,142,805; June 15; Gaz. vol. 215; p. 679.
- Concrete construction, Hanger for use in. A. N. Wright. No. 1,136,460; Apr. 20; Gaz. vol. 213; p. 924.
- Concrete-construction mold. T. A. Edison. No. 1,123,261; Jan. 5; Gaz. vol. 210; p. 20.
- Concrete construction, Reinforced. J. O. Ellinger. No. 1,145,576; July 6; Gaz. vol. 216; p. 209.
- Concrete construction, Reinforced. H. P. Green. No. 1,157,381; Oct. 19; Gaz. vol. 219; p. 775.
- Concrete construction, Reinforced. W. B. Hough. No. 1,127,995; Feb. 9; Gaz. vol. 211; p. 507.
- Concrete construction, Reinforced. W. B. Hough. No. 1,133,801; Mar. 30; Gaz. vol. 212; p. 1560.
- Concrete construction, Reinforced. M. H. McKee. No. 1,142,109; June 8; Gaz. vol. 215; p. 397.
- Concrete construction, Reinforced. A. H. Schuett. No. 1,131,092; Mar. 9; Gaz. vol. 212; p. 468.
- Concrete construction, Reinforced. E. Smulski. No. 1,154,548; Sept. 21; Gaz. vol. 218; p. 837.
- Concrete construction, Reinforced. H. S. Taft. No. 1,150,077; Aug. 17; Gaz. vol. 217; p. 733.
- Concrete construction, Reinforcement for. J. O. Ellinger. No. 1,145,577; July 6; Gaz. vol. 216; p. 210.
- Concrete construction, Reinforcing means for. M. C. Boyer. No. 1,147,603; July 20; Gaz. vol. 216; p. 960.
- Concrete-construction socket. F. M. Barton. No. 1,145,462; July 6; Gaz. vol. 216; p. 171.
- Concrete conveying and placing apparatus. A. V. Jensen. No. 1,142,567; June 8; Gaz. vol. 215; p. 558.
- Concrete construction, Laying or constructing. E. L. Rau some. No. 1,163,770; Dec. 14; Gaz. vol. 221; p. 408.
- Concrete culvert. N. Brown. No. 1,124,284; Jan. 12; Gaz. vol. 210; p. 421.
- Concrete culvert, Sectional. O. S. Hall. No. 1,130,508; Mar. 2; Gaz. vol. 212; p. 235.
- Concrete culverts, Collapsible core for. A. E. Camblin. No. 1,142,669; June 8; Gaz. vol. 215; p. 591.
- Concrete dikes, Machine for forming. J. J. Crall. No. 1,164,072; Dec. 14; Gaz. vol. 221; p. 514.
- Concrete elevating and mixing machine. A. W. Althoff. No. 1,155,190; Sept. 28; Gaz. vol. 218; p. 1088.
- Concrete fence construction. G. Auer. No. 1,149,613; Aug. 10; Gaz. vol. 217; p. 506.
- Concrete-fence-post mold. J. C. Sterling and C. A. Becker. No. 1,145,625; July 6; Gaz. vol. 216; p. 227.
- Concrete fence-posts, Machine for making. J. Rogers. No. 1,126,571; Jan. 26; Gaz. vol. 210; p. 1309.
- Concrete fence-posts, Reinforcement for. J. Rogers. No. 1,126,570; Jan. 26; Gaz. vol. 210; p. 1308.
- Concrete finishing and puddling implement. A. B. Dodge. No. 1,162,462; Nov. 30; Gaz. vol. 220; p. 1601.
- Concrete floor and ceiling construction, Reinforced. F. Burchartz. No. 1,140,571; May 25; Gaz. vol. 214; p. 1111.
- Concrete floor construction. E. F. Crane. No. 1,160,384; Nov. 16; Gaz. vol. 220; p. 778.
- Concrete floor construction. O. W. Norcross. No. 1,133,658; Mar. 30; Gaz. vol. 212; p. 1509.
- Concrete floor constructions, Adjustable centering for reinforced. G. B. Waite. No. 1,163,188; Dec. 7; Gaz. vol. 221; p. 159.
- Concrete floor, Tie-. A. S. Lindau. No. 1,165,985; Dec. 28; Gaz. vol. 221; p. 1260.
- Concrete floors and the like, Laying. P. M. Bruner. No. 1,127,957; Feb. 9; Gaz. vol. 211; p. 495.
- Concrete floors or walls, Form for. W. M. Venable. No. 1,130,453; Mar. 2; Gaz. vol. 212; p. 214.
- Concrete-form. J. R. Selfridge. No. 1,163,375; Dec. 7; Gaz. vol. 221; p. 225.
- Concrete-form. J. R. Selfridge. No. 1,163,376; Dec. 7; Gaz. vol. 221; p. 225.
- Concrete-form. W. M. Smith. No. 1,135,858; Apr. 13; Gaz. vol. 213; p. 671.
- Concrete-form. M. Stieler. No. 1,164,319; Dec. 14; Gaz. vol. 221; p. 599.
- Concrete-form clamp. G. W. Parish. No. 1,144,778; June 29; Gaz. vol. 215; p. 1417.
- Concrete-form clamp. A. H. Symons. No. 1,160,212; Nov. 16; Gaz. vol. 220; p. 719.
- Concrete-form, Collapsible. E. G. Watson. No. 1,130,947; Mar. 9; Gaz. vol. 212; p. 419.
- Concrete-form construction. C. F. Long and A. B. Hersman. No. 1,134,051; Mar. 30; Gaz. vol. 212; p. 1643.
- Concrete-form for curbs, walks, &c. A. R. Teters. No. 1,140,776; May 25; Gaz. vol. 214; p. 1179.
- Concrete girder construction, Form for. H. Ericsson. No. 1,152,307; Aug. 31; Gaz. vol. 217; p. 1606.
- Concrete-insert. C. J. Branch. No. 1,146,686; July 13; Gaz. vol. 216; p. 619.
- Concrete-insert. J. E. Marble. No. 1,145,385; July 6; Gaz. vol. 216; p. 143.
- Concrete material, Producing uniform density in. C. L. Norton. No. 1,140,703; May 25; Gaz. vol. 214; p. 1155.
- Concrete, Method of and apparatus for transporting and treating. J. H. McMichael. No. 1,127,660; Feb. 9; Gaz. vol. 211; p. 386.
- Concrete-mixer. D. R. Childress. No. 1,129,453; Feb. 23; Gaz. vol. 211; p. 1101.
- Concrete-mixer. E. H. Cowan. No. 1,154,383; Sept. 21; Gaz. vol. 218; p. 783.
- Concrete-mixer. J. H. Dupre. No. 1,154,295; Sept. 21; Gaz. vol. 218; p. 751.
- Concrete-mixer. H. F. Feuhrer. No. 1,157,096; Oct. 19; Gaz. vol. 219; p. 673.
- Concrete-mixer. J. L. Galyean. No. 1,161,304; Nov. 23; Gaz. vol. 220; p. 1153.
- Concrete-mixer. R. Gemmrig. No. 1,144,650; June 29; Gaz. vol. 215; p. 1372.
- Concrete-mixer. J. F. Klann. No. 1,158,236; Oct. 26; Gaz. vol. 219; p. 1136.
- Concrete-mixer. P. A. Koehring. No. 1,126,487; Jan. 26; Gaz. vol. 210; p. 1275.
- Concrete-mixer. G. F. Nye. No. 1,142,613; June 8; Gaz. vol. 215; p. 572.
- Concrete-mixer. J. S. Owens. No. 1,154,051; Sept. 21; Gaz. vol. 218; p. 668.
- Concrete-mixer. T. L. Smith. No. 1,145,171; July 6; Gaz. vol. 216; p. 69.
- Concrete-mixer. T. L. Smith. No. 1,147,903; July 27; Gaz. vol. 216; p. 1092.
- Concrete-mixer. C. H. Vinal. No. 1,134,300; Apr. 6; Gaz. vol. 213; p. 79.
- Concrete-mixer and the like. A. E. Smith. No. 1,129,132; Feb. 23; Gaz. vol. 211; p. 989.
- Concrete-mixer drum. T. L. Smith. No. 1,150,896; Aug. 24; Gaz. vol. 217; p. 1076.
- Concrete mixers, Actuating means for dumping. J. M. Bruns. No. 1,140,298; May 18; Gaz. vol. 214; p. 978.
- Concrete mixers, Distributing mechanism for. E. H. Lichtenberg. No. 1,141,470; June 1; Gaz. vol. 215; p. 138.
- Concrete-mixing machines, Side loader for. H. C. Dilliard. No. 1,133,941; Mar. 30; Gaz. vol. 212; p. 1607.
- Concrete-mold. E. A. Berry. No. 1,162,554; Nov. 30; Gaz. vol. 220; p. 1633.
- Concrete-mold. L. Giguère. No. 1,125,837; Jan. 19; Gaz. vol. 210; p. 1009.
- Concrete-mold. L. Giguère. No. 1,136,225; Apr. 20; Gaz. vol. 213; p. 840.
- Concrete-mold. W. D. Horning. No. 1,162,924; Dec. 7; Gaz. vol. 221; p. 66.
- Concrete-mold. C. W. Jones. No. 1,148,517; Aug. 3; Gaz. vol. 217; p. 12.
- Concrete-mold. W. H. Tuohy. No. 1,126,318; Jan. 26; Gaz. vol. 210; p. 1216.
- Concrete-mold or the like. S. M. Randolph. No. 1,153,254; Sept. 14; Gaz. vol. 218; p. 352.
- Concrete-molding machine. C. M. Dolen. No. 1,154,387; Sept. 21; Gaz. vol. 218; p. 784.
- Concrete pavement. E. F. Wilcox. No. 1,134,306; Apr. 6; Gaz. vol. 213; p. 82.
- Concrete pile. L. E. Lyon. No. 1,123,773; Jan. 5; Gaz. vol. 216; p. 197.
- Concrete-pile form. J. R. Selfridge. No. 1,163,377; Dec. 7; Gaz. vol. 221; p. 225.
- Concrete piles in the ground, Apparatus for making. G. Feder. No. 1,140,303; May 18; Gaz. vol. 214; p. 980.
- Concrete piles, Making. R. J. Beall, Jr. No. 1,127,393; Feb. 9; Gaz. vol. 211; p. 295.
- Concrete piling, Incased. G. W. Noble. No. 1,127,081; Feb. 2; Gaz. vol. 211; p. 147.
- Concrete piling, Removable pile for forming. R. J. Beall, Jr. No. 1,127,392; Feb. 9; Gaz. vol. 211; p. 294.
- Concrete pipe. W. C. Parmley. No. 1,133,313; Mar. 30; Gaz. vol. 212; p. 1383.
- Concrete pipe and mold. W. H. Beery. No. 1,126,355; Jan. 26; Gaz. vol. 210; p. 1230.
- Concrete-pipe-forming mold. P. B. Jagger. No. 1,157,987; Oct. 26; Gaz. vol. 219; p. 1048.
- Concrete-pipe machine. A. H. Sanders and O. Hood. No. 1,158,301; Oct. 26; Gaz. vol. 219; p. 1159.
- Concrete-pipe machine, Continuous. J. H. Carr and A. C. Routh. No. 1,153,599; Sept. 14; Gaz. vol. 218; p. 477.
- Concrete-pipe mold. F. H. Souder. No. 1,150,828; Aug. 17; Gaz. vol. 217; p. 996.
- Concrete pipes or tiles, Means for making continuous. T. O. Berry. No. 1,150,487; Aug. 17; Gaz. vol. 217; p. 378.
- Concrete-pole mold. W. S. Morris. No. 1,124,164; Jan. 5; Gaz. vol. 210; p. 328.
- Concrete-post machine. L. M. Vance. No. 1,148,063; July 27; Gaz. vol. 216; p. 1149.
- Concrete-post mold. E. W. Hadley and H. W. Gossett. No. 1,130,507; Mar. 2; Gaz. vol. 212; p. 234.

Alphabetical list of inventions—Continued.

- Concrete post, Reinforced-. J. P. Kimble. No. 1,137,982; May 4; Gaz. vol. 214; p. 91.
- Concrete post, Reinforced-. J. P. Kimble. No. 1,163,241; Dec. 7; Gaz. vol. 221; p. 177.
- Concrete-press. W. H. Fulcher. No. 1,160,996; Nov. 16; Gaz. vol. 220; p. 997.
- Concrete reinforcement. N. E. Clark. No. 1,138,932; May 11; Gaz. vol. 214; p. 463.
- Concrete reinforcement. J. F. Golding. No. 1,142,087; June 8; Gaz. vol. 215; p. 389.
- Concrete reinforcement, Collapsible. J. O. Ellinger. No. 1,142,031; June 8; Gaz. vol. 215; p. 370.
- Concrete reinforcements, Machine for manufacturing. J. Rogers. No. 1,126,572; Jan. 26; Gaz. vol. 210; p. 1310.
- Concrete reinforcing and binding means. G. E. Escher. No. 1,144,536; June 29; Gaz. vol. 215; p. 1333.
- Concrete-reinforcing bars, Support and tie for. G. R. Schoenthaler. No. 1,124,536; Jan. 12; Gaz. vol. 210; p. 511.
- Concrete-reinforcing bars, Support and tie for. G. R. Schoenthaler. No. 1,132,735; Mar. 23; Gaz. vol. 212; p. 1139.
- Concrete-reinforcing bars, Support and tie for. G. R. Schoenthaler. No. 1,143,323; June 15; Gaz. vol. 215; p. 862.
- Concrete-reinforcing means. J. F. Havemeyer. No. 1,151,947; Aug. 31; Gaz. vol. 217; p. 1481.
- Concrete-reinforcing rods, Support and tie for. G. R. Schoenthaler. No. 1,124,537; Jan. 12; Gaz. vol. 210; p. 511.
- Concrete-reinforcing structure. U. M. Cervello. No. 1,161,112; Nov. 25; Gaz. vol. 220; p. 1082.
- Concrete-reinforcing ties, Applying-tool for. J. B. Neevel. No. 1,135,042; Apr. 13; Gaz. vol. 213; p. 388.
- Concrete revetment. J. McGillivray. No. 1,154,867; Sept. 28; Gaz. vol. 218; p. 974.
- Concrete road-guard, Reinforced-. C. F. Buente. No. 1,162,282; Nov. 30; Gaz. vol. 220; p. 1540.
- Concrete roof for a silo, Form or mold for. A. A. Bielenberg. No. 1,124,995; Jan. 12; Gaz. vol. 210; p. 674.
- Concrete sewer constructions, Fastener for. W. C. Flannery. No. 1,155,411; Oct. 5; Gaz. vol. 219; p. 30.
- Concrete silo. J. A. Brodrick. No. 1,130,958; Mar. 9; Gaz. vol. 212; p. 422.
- Concrete silo. C. O. Culver. No. 1,148,151; July 27; Gaz. vol. 216; p. 1181.
- Concrete silo and like mold. W. A. Doyle. No. 1,159,366; Nov. 9; Gaz. vol. 220; p. 364.
- Concrete silos and the like, Apparatus for constructing. L. F. Williams. No. 1,163,798; Dec. 14; Gaz. vol. 221; p. 419.
- Concrete-slab construction. B. B. Layton. No. 1,162,085; Nov. 30; Gaz. vol. 220; p. 1472.
- Concrete-slab construction for the protection of embankments. F. S. Edinger. No. 1,164,708; Dec. 21; Gaz. vol. 221; p. 775.
- Concrete slab construction, Reinforced-. C. A. P. Turner. No. 1,131,019; Mar. 9; Gaz. vol. 212; p. 444.
- Concrete-slab floor construction. G. B. Waite. No. 1,163,187; Dec. 7; Gaz. vol. 221; p. 159.
- Concrete-slab-revetment construction for embankments. Flexible. F. S. Edinger. No. 1,164,707; Dec. 21; Gaz. vol. 221; p. 775.
- Concrete slabs or plates, Machine for making. C. L. Norton. No. 1,140,702; May 25; Gaz. vol. 214; p. 1155.
- Concrete slabs or plates, Machine for making. C. L. Norton. No. 1,140,704; May 25; Gaz. vol. 214; p. 1155.
- Concrete-stave silo, Reinforced-. W. L. Reynolds. No. 1,161,973; Nov. 30; Gaz. vol. 220; p. 1432.
- Concrete structure. J. J. Moran. No. 1,159,526; Nov. 9; Gaz. vol. 220; p. 421.
- Concrete structure, Reinforced. W. F. Tubesing. No. 1,127,702; Feb. 9; Gaz. vol. 211; p. 401.
- Concrete structures, Apparatus for forming. A. S. Merriett. No. 1,137,998; May 4; Gaz. vol. 214; p. 96.
- Concrete structures, Apparatus for use in building. J. Wilson. No. 1,162,963; Dec. 7; Gaz. vol. 221; p. 80.
- Concrete structures, Bracket to support moldboards for. D. W. Daley. No. 1,149,635; Aug. 10; Gaz. vol. 217; p. 515.
- Concrete structures, Combined reinforce and mold-support for. H. Fuehrer. No. 1,126,190; Jan. 26; Gaz. vol. 210; p. 1171.
- Concrete structures, Means for suspending objects from reinforced. A. Jordahl. No. 1,155,243; Sept. 28; Gaz. vol. 218; p. 1103.
- Concrete structures, Mold for building poured. L. C. Stewart and M. A. Quinn. No. 1,163,480; Dec. 7; Gaz. vol. 221; p. 260.
- Concrete structures, Mold for tubular. R. O. Blayne. No. 1,145,228; July 6; Gaz. vol. 216; p. 89.
- Concrete-tank-lining material. H. Boesari-Fischer. No. 1,152,783; Sept. 7; Gaz. vol. 218; p. 147.
- Concrete tie. W. T. Dickey. No. 1,158,790; Nov. 2; Gaz. vol. 220; p. 134.
- Concrete tie, Reinforced-. H. S. Adams and G. F. Wagner. No. 1,147,132; July 20; Gaz. vol. 216; p. 794.
- Concrete tile, Machine for making hollow. G. Weiss. No. 1,159,448; Nov. 9; Gaz. vol. 220; p. 394.
- Concrete tops for cisterns, &c., Form for. G. Morgan. No. 1,127,070; Feb. 2; Gaz. vol. 211; p. 143.
- Concrete, Treating masses of. C. Ellis. No. 1,130,717; Mar. 9; Gaz. vol. 212; p. 340.
- Concrete-tunnel form. A. A. Brewer. No. 1,139,335; May 11; Gaz. vol. 214; p. 603.
- Concrete tunnels, Mold for constructing. G. R. Abbott. No. 1,137,442; Apr. 27; Gaz. vol. 213; p. 1315.
- Concrete wall and column construction, Forms for reinforced-. G. E. Dale. No. 1,159,184; Nov. 2; Gaz. vol. 220; p. 269.
- Concrete wall construction, Mold for. J. P. Jackson. No. 1,164,352; Dec. 14; Gaz. vol. 221; p. 611.
- Concrete-wall mold. J. W. Alexander. No. 1,142,388; June 8; Gaz. vol. 215; p. 495.
- Concrete-wall mold. T. Lightbody. No. 1,123,769; Jan. 5; Gaz. vol. 210; p. 196.
- Concrete walls, Apparatus for casting. G. S. Mumford. No. 1,137,416; Apr. 27; Gaz. vol. 213; p. 1306.
- Concrete walls, Apparatus for constructing hollow reinforced-. R. S. Marvin. No. 1,148,246; July 27; Gaz. vol. 216; p. 1213.
- Concrete walls, Bracket for constructing. R. G. Wilson. No. 1,132,059; Mar. 16; Gaz. vol. 212; p. 844.
- Concrete walls, Means for fixing anchorages in. J. L. Murphy and J. Richmond. No. 1,157,895; Oct. 26; Gaz. vol. 219; p. 1017.
- Concrete walls, Mold for constructing hollow reinforced-. S. Markel. No. 1,123,563; Jan. 5; Gaz. vol. 210; p. 125.
- Concrete walls, Support and stay for moldboards used for one side of. D. W. Daley. No. 1,149,636; Aug. 10; Gaz. vol. 217; p. 515.
- Concrete water-pipes, Expansion-joint for. A. M. Hirsh, C. Meriwether, and J. C. Mitchell. No. 1,151,949; Aug. 31; Gaz. vol. 217; p. 1482.
- Concrete, Waterproofing and strengthening compound for. L. E. Levi. No. 1,128,696; Feb. 16; Gaz. vol. 211; p. 799.
- Concrete window-sash. A. G. Higgins. No. 1,147,090; July 20; Gaz. vol. 216; p. 780.
- Concrete work, Device for spacing and supporting reinforcing-bars in. L. N. Lukens. No. 1,139,987; May 18; Gaz. vol. 214; p. 871.
- Concreting piles, Method and apparatus for. E. W. Scowden. No. 1,157,328; Oct. 19; Gaz. vol. 219; p. 756.
- Concreting wooden piles, Reinforcement for. J. L. McCall. No. 1,133,484; Mar. 30; Gaz. vol. 212; p. 1444.
- Condensation. H. Hibbert. No. 1,164,647; Dec. 21; Gaz. vol. 221; p. 454.
- Condensation products, Producing. H. W. Matheson. No. 1,151,113; Aug. 24; Gaz. vol. 217; p. 1150.
- Condenser. A. Day. No. 1,134,518; Apr. 6; Gaz. vol. 213; p. 159.
- Condenser. R. N. Ehrhart. No. 1,142,784; June 8; Gaz. vol. 215; p. 632.
- Condenser. G. H. Gibson. No. 1,143,380; June 15; Gaz. vol. 215; p. 882.
- Condenser. J. F. Grace. No. 1,153,217; Sept. 14; Gaz. vol. 218; p. 339.
- Condenser. E. G. Helander. No. 1,144,197; June 22; Gaz. vol. 215; p. 1189.
- Condenser. E. G. Helander. No. 1,144,198; June 22; Gaz. vol. 215; p. 1190.
- Condenser. J. N. Husher. No. 1,127,252; Feb. 2; Gaz. vol. 211; p. 207.
- Condenser. C. V. Kerr. No. 1,158,231; Oct. 26; Gaz. vol. 219; p. 1133.
- Condenser. C. V. Kerr. No. 1,159,775; Nov. 9; Gaz. vol. 220; p. 512.
- Condenser. P. J. Leyendecker. No. 1,146,722; July 13; Gaz. vol. 216; p. 631.
- Condenser. J. F. Metten. No. 1,149,276; Aug. 10; Gaz. vol. 217; p. 383.
- Condenser. L. L. Pratt. No. 1,145,334; July 6; Gaz. vol. 216; p. 124.
- Condenser. A. K. Sloan. No. 1,150,895; Aug. 24; Gaz. vol. 217; p. 1076.
- Condenser and self-condensing turbine, Rotary. E. S. G. Rees. No. 1,154,434; Sept. 21; Gaz. vol. 218; p. 799.
- Condenser and vaporizer. J. D. Schenk. No. 1,151,054; Aug. 24; Gaz. vol. 217; p. 1131.
- Condenser arrangement. A. R. Bullock. (Reissue.) No. 14,015; Nov. 23; Gaz. vol. 220; p. 1335.
- Condenser, Barometric. L. A. Woodard. No. 1,153,001; Sept. 7; Gaz. vol. 218; p. 228.
- Condenser, Counter-current. H. E. Beyer. No. 1,162,969; Dec. 7; Gaz. vol. 221; p. 82.
- Condenser-guide. T. Bellwood and H. Garth. No. 1,130,467; Mar. 2; Gaz. vol. 212; p. 219.
- Condenser, Microscope. H. Siedentopf. No. 1,157,257; Oct. 19; Gaz. vol. 219; p. 732.
- Condenser, Smoke and cinder. E. S. Jones. No. 1,166,132; Dec. 28; Gaz. vol. 221; p. 1314.
- Condenser, Steam-. H. A. Duc, Jr. No. 1,139,505; May 18; Gaz. vol. 214; p. 701.
- Condenser, Steam-. D. B. Morison. No. 1,153,814; Sept. 14; Gaz. vol. 218; p. 551.
- Condenser, Steam-. G. Peterson. No. 1,139,135; May 11; Gaz. vol. 214; p. 537.
- Condenser, Steam-. Z. T. Scott. No. 1,156,501; Oct. 12; Gaz. vol. 219; p. 435.

Alphabetical list of inventions—Continued.

- Condenser, Surface. L. D. Lovekin. No. 1,139,547; May 18; Gaz. vol. 214; p. 715.
- Condenser, Surface. C. A. Parsons and S. S. Cook. No. 1,144,235; June 22; Gaz. vol. 215; p. 1204.
- Condenser, Surface. F. Ray. No. 1,137,422; Apr. 27; Gaz. vol. 213; p. 1308.
- Condensers, Apparatus for drawing aerated vapor and condensate from steam-. D. B. Morison. No. 1,160,943; Nov. 16; Gaz. vol. 220; p. 978.
- Condensers, Apparatus for measuring or indicating the efficiency of steam-. A. E. L. Scanes and K. Baumann. No. 1,161,254; Nov. 23; Gaz. vol. 220; p. 1135.
- Condensers, Apparatus for withdrawing aerated vapor and condensate from steam-. D. B. Morison. No. 1,155,951; Oct. 5; Gaz. vol. 219; p. 217.
- Condensing apparatus. J. J. Brown. No. 1,144,104; June 22; Gaz. vol. 215; p. 1157.
- Condensing apparatus. E. W. Christie. No. 1,135,661; Apr. 13; Gaz. vol. 213; p. 603.
- Condensing apparatus. P. Christlein and G. Möller. No. 1,166,324; Dec. 28; Gaz. vol. 221; p. 1384.
- Condensing apparatus. G. H. Gibson. No. 1,143,381; June 15; Gaz. vol. 215; p. 882.
- Condensing apparatus. C. V. Kerr. No. 1,158,232; Oct. 26; Gaz. vol. 219; p. 1134.
- Condensing apparatus. C. V. Kerr. No. 1,159,778; Nov. 9; Gaz. vol. 220; p. 513.
- Condensing apparatus. M. Leblanc. No. 1,140,172; May 18; Gaz. vol. 214; p. 937.
- Condensing apparatus. O. P. Ostergren. No. 1,155,090; Sept. 28; Gaz. vol. 218; p. 1053.
- Condensing apparatus. Jet. F. Ray. No. 1,160,652; Nov. 16; Gaz. vol. 220; p. 876.
- Condensing apparatus. Steam-. G. H. Gibson and P. A. Bancel. No. 1,143,382; June 15; Gaz. vol. 215; p. 883.
- Condiment-holder. G. M. Bright. No. 1,139,841; May 18; Gaz. vol. 214; p. 819.
- Condiment-holder. P. L. Ferguson. No. 1,165,238; Dec. 21; Gaz. vol. 221; p. 962.
- Condiment-holder. C. L. Friday. No. 1,127,611; Feb. 9; Gaz. vol. 211; p. 370.
- Condiment-holder. W. G. Hughes. No. 1,151,881; Aug. 31; Gaz. vol. 217; p. 1461.
- Condiment-holder and cutlery utensil, Combination. G. M. Dennis. No. 1,155,802; Oct. 5; Gaz. vol. 219; p. 167.
- Condiment-holders, Closure for. J. Pulford. No. 1,130,019; Mar. 2; Gaz. vol. 212; p. 62.
- Condiment-shaker. W. C. Boeck. No. 1,123,228; Jan. 5; Gaz. vol. 210; p. 9.
- Condiment-shaker. M. Devine. No. 1,161,293; Nov. 23; Gaz. vol. 220; p. 1149.
- Conductor, Armored, flat, electrical. M. Kallmann. No. 1,162,614; Nov. 30; Gaz. vol. 220; p. 1651.
- Conductor, Leading-in. E. Weintraub. No. 1,154,081; Sept. 21; Gaz. vol. 218; p. 678.
- Conductor-support. W. M. Mordey, J. W. Astley, and D. B. Saunderson. No. 1,153,813; Sept. 14; Gaz. vol. 218; p. 550.
- Conductors, Device for temporarily retaining. J. S. Stewart. No. 1,142,282; June 8; Gaz. vol. 215; p. 457.
- Conductors, Treating. R. Jacoby. No. 1,142,172; June 8; Gaz. vol. 215; p. 419.
- Conduit clamping-plate and disk. W. A. Bonnell. No. 1,128,842; Feb. 16; Gaz. vol. 211; p. 850.
- Conduit construction, Underground-. M. H. Loughridge. No. 1,143,412; June 15; Gaz. vol. 215; p. 893.
- Conduit, Flexible. M. P. McLaughlin. No. 1,128,798; Feb. 16; Gaz. vol. 211; p. 834.
- Conduit, Hot-air. A. H. Robinson. No. 1,158,855; Nov. 2; Gaz. vol. 220; p. 158.
- Conduit-outlet fitting. C. H. Bissell. No. 1,126,362; Jan. 26; Gaz. vol. 210; p. 1232.
- Conduit-rod coupling. E. L. Brockway. No. 1,165,747; Dec. 28; Gaz. vol. 221; p. 1179.
- Conduit, Sectional. R. D. Kimball. No. 1,149,920; Aug. 10; Gaz. vol. 217; p. 617.
- Conduit-mold. T. De La Mare. No. 1,144,692; June 29; Gaz. vol. 215; p. 1387.
- Conduit, Underground. J. W. Orrock. No. 1,155,610; Oct. 5; Gaz. vol. 219; p. 99.
- Conduits conveying loose, abrasive, and disintegrated materials, Suction-machine for. L. A. Griffin. No. 1,153,684; Sept. 14; Gaz. vol. 218; p. 505.
- Conduits, Locking device for sectional. I. Stearns. No. 1,152,568; Sept. 7; Gaz. vol. 218; p. 70.
- Conduits, Outlet-hood for. W. M. Webb. No. 1,158,346; Oct. 26; Gaz. vol. 219; p. 1174.
- Cone-making machine. W. M. and P. D. Roberts. No. 1,150,625; Aug. 17; Gaz. vol. 217; p. 926.
- Confectionery-casting machine. M. Oppenheim. No. 1,162,391; Nov. 30; Gaz. vol. 220; p. 1576.
- Confectionery centers of fruit products or other food-stuffs, Depositing into chocolate. W. Boyd. No. 1,138,929; May 11; Gaz. vol. 214; p. 462.
- Confectionery-coating machine. H. W. and E. C. Becht. No. 1,133,789; Mar. 30; Gaz. vol. 212; p. 1555.
- Confectionery-machines, Conveyor-belt for. A. L. Bausman. No. 1,141,861; June 1; Gaz. vol. 215; p. 269.
- Confectionery, Manufacture of. H. Walker and R. B. Hay. No. 1,142,129; June 8; Gaz. vol. 215; p. 405.
- Confectionery wholly or partially covered with chocolate, Manufacturing filled sticks of. J. Rousseau. No. 1,144,794; June 29; Gaz. vol. 215; p. 1423.
- Confections, Manufacture of. F. White. No. 1,136,074; Apr. 20; Gaz. vol. 213; p. 786.
- Connecting device. D. D. Gordon. No. 1,146,325; July 13; Gaz. vol. 216; p. 492.
- Connecting device. H. A. Hart. No. 1,162,354; Nov. 30; Gaz. vol. 220; p. 1565.
- Connecting device, Resilient. J. P. Wilson. No. 1,139,319; May 11; Gaz. vol. 214; p. 597.
- Connecting-rod. R. S. Kinkead. No. 1,130,982; Mar. 9; Gaz. vol. 212; p. 431.
- Connecting-rod. G. W. Seaman. No. 1,126,888; Feb. 2; Gaz. vol. 211; p. 79.
- Connecting-rod. F. E. Stanley. No. 1,134,973; Apr. 6; Gaz. vol. 213; p. 317.
- Connecting-rods, Apparatus for babbitting. A. L. Eckman. No. 1,165,079; Dec. 21; Gaz. vol. 221; p. 905.
- Connecting-rods, Apparatus for testing or proving the center of gravity of. A. W. Brown. No. 1,124,389; Jan. 12; Gaz. vol. 210; p. 457.
- Connection. R. L. Wilcox. No. 1,157,072; Oct. 19; Gaz. vol. 219; p. 665.
- Connection adjustment. S. W. Hayes. No. 1,156,997; Oct. 19; Gaz. vol. 219; p. 638.
- Connection-box. W. F. Bouché. No. 1,153,019; Sept. 7; Gaz. vol. 218; p. 234.
- Connection-protector and trolley-replacer. A. J. Conlon, P. J. Murphy, and J. T. Tighe. No. 1,129,277; Feb. 23; Gaz. vol. 211; p. 1039.
- Connector. W. A. Bonnell. No. 1,138,074; May 4; Gaz. vol. 214; p. 124.
- Connector. H. A. Douglas. No. 1,134,673; Apr. 6; Gaz. vol. 213; p. 216.
- Connector. E. C. G. Mueller. No. 1,125,370; Jan. 19; Gaz. vol. 210; p. 845.
- Connector, Detachable. A. McLane and J. Churnside. No. 1,143,218; June 15; Gaz. vol. 215; p. 825.
- Conservatory, Window-. H. J. Moore. No. 1,152,899; Sept. 7; Gaz. vol. 218; p. 191.
- Conserving organic substances. H. Goslar. No. 1,138,602; May 4; Gaz. vol. 214; p. 307.
- Construction-block. T. L. Bostwick. No. 1,155,035; Sept. 28; Gaz. vol. 218; p. 1032.
- Construction member. F. F. Whittam and H. C. Witt. No. 1,148,643; Aug. 3; Gaz. vol. 217; p. 58.
- Contact device. L. W. Chubb. No. 1,162,571; Nov. 30; Gaz. vol. 220; p. 1637.
- Contact device, Centrifugally-operated. C. G. Cunningham. No. 1,132,653; Mar. 23; Gaz. vol. 212; p. 1109.
- Contact device for interrupters. A. Pollak. No. 1,164,313; Dec. 14; Gaz. vol. 221; p. 597.
- Contact feeding mechanism for base-making machines. W. Jost. No. 1,151,273; Aug. 24; Gaz. vol. 217; p. 1205.
- Contact maker and interrupter. W. C. Brinton, Jr. No. 1,129,446; Feb. 23; Gaz. vol. 211; p. 1098.
- Contact maker and interrupter for ignition systems. W. C. Brinton, Jr. No. 1,129,445; Feb. 23; Gaz. vol. 211; p. 1098.
- Contact member. W. F. Hosford. No. 1,132,094; Mar. 16; Gaz. vol. 212; p. 856.
- Contact or spark devices, Terminal for. P. R. Heyl. No. 1,166,129; Dec. 28; Gaz. vol. 221; p. 1312.
- Contact-points, Making. B. E. Eldred. No. 1,130,077; Mar. 2; Gaz. vol. 212; p. 82.
- Contacts, Means for securing. C. J. Klein. No. 1,143,633; June 22; Gaz. vol. 215; p. 993.
- Container. J. W. Appleton. No. 1,145,286; July 6; Gaz. vol. 216; p. 108.
- Container. J. F. Brady. No. 1,162,560; Nov. 30; Gaz. vol. 220; p. 1634.
- Container. F. B. Davidson. No. 1,150,852; Aug. 24; Gaz. vol. 217; p. 1063.
- Container. F. L. Eager. No. 1,138,853; May 11; Gaz. vol. 214; p. 437.
- Container. H. O. Elkins. No. 1,144,643; June 29; Gaz. vol. 215; p. 1369.
- Container. J. J. Farrar. No. 1,156,767; Oct. 12; Gaz. vol. 219; p. 527.
- Container. A. M. Hulbert. No. 1,138,954; May 11; Gaz. vol. 214; p. 471.
- Container. C. Kormanshaus. No. 1,137,268; Apr. 27; Gaz. vol. 213; p. 1252.
- Container. W. L. Lape. No. 1,130,988; Mar. 9; Gaz. vol. 212; p. 433.
- Container. W. Mangold. No. 1,154,710; Sept. 28; Gaz. vol. 218; p. 923.
- Container. V. Nivois. No. 1,156,019; Oct. 5; Gaz. vol. 219; p. 240.
- Container. G. W. Reinhardt. No. 1,148,858; Aug. 3; Gaz. vol. 217; p. 133.
- Container. R. R. Richardson. No. 1,141,489; June 1; Gaz. vol. 215; p. 144.
- Container. M. C. Rosenfeld. No. 1,158,558; Nov. 2; Gaz. vol. 220; p. 53.
- Container. F. Westerbeck. No. 1,166,395; Dec. 28; Gaz. vol. 221; p. 1410.
- Container and dispenser. J. Tournadre. No. 1,154,351; Sept. 21; Gaz. vol. 218; p. 772.
- Container and holder therefor, Liquid-. H. Welsch. No. 1,158,757; Nov. 2; Gaz. vol. 220; p. 121.

Alphabetical list of inventions—Continued.

- Container-casing. B. K. Ford and L. E. Birch. No. 1,131,689; Mar. 16; Gaz. vol. 212; p. 709.
- Container-closure. M. Bye. No. 1,163,888; Dec. 14; Gaz. vol. 221; p. 449.
- Container, Collapsible. E. M. Anderson. No. 1,160,815; Nov. 16; Gaz. vol. 220; p. 934.
- Container construction. C. W. Kress. No. 1,134,540; Apr. 6; Gaz. vol. 213; p. 166.
- Container, Dispensing-. J. W. Schloss. No. 1,161,533; Nov. 23; Gaz. vol. 220; p. 1233.
- Container, Food-. E. E. Henderson. No. 1,145,139; July 6; Gaz. vol. 216; p. 57.
- Container for goods in transit. H. H. Johnson. No. 1,154,775; Sept. 28; Gaz. vol. 218; p. 945.
- Container for inflammable liquids. E. Hurlbrink. No. 1,151,184; Aug. 24; Gaz. vol. 217; p. 1175.
- Container for receptacles. W. J. Graham. No. 1,159,491; Nov. 9; Gaz. vol. 220; p. 410.
- Container for use in shipment of fragile articles. I. A. Milliron. No. 1,150,140; Aug. 17; Gaz. vol. 217; p. 756.
- Container, Friction-cover. I. J. Marcuse. No. 1,161,236; Nov. 23; Gaz. vol. 220; p. 1129.
- Container, Hinged-cover. J. R. Harbeck. No. 1,148,676; Aug. 3; Gaz. vol. 217; p. 70.
- Container, Knockdown. M. Lachman. No. 1,133,293; Mar. 30; Gaz. vol. 212; p. 1377.
- Container, Metallic. E. C. Kline. No. 1,148,238; July 27; Gaz. vol. 216; p. 1210.
- Container or caddy. F. B. Davidson. No. 1,134,998; Apr. 13; Gaz. vol. 213; p. 871.
- Container or caddy. F. B. Davidson. No. 1,151,570; Aug. 31; Gaz. vol. 217; p. 1352.
- Container or receptacle. E. C. Angell. No. 1,160,561; Nov. 16; Gaz. vol. 220; p. 842.
- Container, Pocket-. W. H. and C. W. Bartels. No. 1,124,257; Jan. 12; Gaz. vol. 210; p. 409.
- Container, Reinforced-fiber. H. C. Herr. No. 1,145,415; July 6; Gaz. vol. 216; p. 154.
- Container, Sanitary. E. E. McFarland. No. 1,157,883; Oct. 26; Gaz. vol. 219; p. 1012.
- Container, Sealed. J. S. Stokes. No. 1,152,354; Aug. 31; Gaz. vol. 217; p. 1624.
- Container, Sheet-metal. J. Komorous. No. 1,158,935; Nov. 2; Gaz. vol. 220; p. 184.
- Container, Spouted. A. S. Whitney. No. 1,137,248; Apr. 27; Gaz. vol. 213; p. 1244.
- Container-stopper. H. M. Abrahamson. No. 1,144,678; June 29; Gaz. vol. 215; p. 1382.
- Container vessel, Pouring-spout. H. W. Jones. No. 1,152,416; Sept. 7; Gaz. vol. 218; p. 12.
- Containers, Combined cover and carrier device for liquid-. J. Carney. No. 1,125,469; Jan. 19; Gaz. vol. 210; p. 879.
- Containers, Exhauster for original commercial. M. B. Leavens and H. D. Wilson. No. 1,163,021; Dec. 7; Gaz. vol. 221; p. 100.
- Containers, Lining. L. and H. L. Bradley. No. 1,124,281; Jan. 12; Gaz. vol. 210; p. 419.
- Containers, Making. C. Kormanshaus. No. 1,137,269; Apr. 27; Gaz. vol. 213; p. 1252.
- Containers, Making composition. F. B. Hays. No. 1,149,440; Aug. 10; Gaz. vol. 217; p. 444.
- Containers, Manufacturing. A. B. Starr. No. 1,161,795; Nov. 23; Gaz. vol. 220; p. 1323.
- Containers, Receptacle for original. T. Strothmann. No. 1,156,506; Oct. 12; Gaz. vol. 219; p. 437.
- Containing and dispensing can, Sheet-metal. F. Rudolph. No. 1,158,077; Oct. 26; Gaz. vol. 219; p. 1080.
- Containing-tube. G. M. Stratton. No. 1,126,909; Feb. 2; Gaz. vol. 211; p. 86.
- Continuous brake. W. R. Smith. No. 1,161,543; Nov. 23; Gaz. vol. 220; p. 1237.
- Continuous-burning furnace for burning enamel ware. C. Bickmeier and D. A. Liston. No. 1,140,105; May 18; Gaz. vol. 214; p. 914.
- Contour-recorder. C. W. Baldrige. No. 1,154,596; Sept. 28; Gaz. vol. 218; p. 883.
- Control apparatus. N. W. Storer. No. 1,135,412; Apr. 13; Gaz. vol. 213; p. 514.
- Control device, Automatic. C. F. Johnson. No. 1,162,170; Nov. 30; Gaz. vol. 220; p. 1501.
- Control mechanism. F. E. Baker. No. 1,127,160; Feb. 2; Gaz. vol. 211; p. 175.
- Control mechanism. W. MacGlashan. No. 1,125,575; Jan. 19; Gaz. vol. 210; p. 915.
- Control mechanism. E. T. Shaw. No. 1,157,963; Oct. 26; Gaz. vol. 219; p. 1040.
- Control mechanism. W. L. Watson. No. 1,130,227; Mar. 2; Gaz. vol. 212; p. 134.
- Control system. A. J. Hall. No. 1,140,901; May 25; Gaz. vol. 214; p. 1226.
- Control system. A. J. Hall. No. 1,157,777; Oct. 26; Gaz. vol. 219; p. 974.
- Control system. H. D. James. No. 1,150,035; Aug. 17; Gaz. vol. 217; p. 718.
- Control system. R. H. McLain. No. 1,164,297; Dec. 14; Gaz. vol. 221; p. 591.
- Control system. H. A. Steen. No. 1,149,150; Aug. 3; Gaz. vol. 217; p. 233.
- Control system. N. W. Storer. (Reissue.) No. 13,998; Oct. 19; Gaz. vol. 219; p. 877.
- Control system. N. W. Storer. No. 1,157,820; Oct. 26; Gaz. vol. 219; p. 989.
- Control system. N. W. Storer and A. J. Hall. No. 1,157,821; Oct. 26; Gaz. vol. 219; p. 989.
- Control system and means. J. S. Hadden and F. H. Johnson. No. 1,163,818; Dec. 14; Gaz. vol. 221; p. 426.
- Control, System and means of. J. S. Hadden and F. H. Johnson. No. 1,156,841; Oct. 12; Gaz. vol. 219; p. 553.
- Control system, Geometrically-progressive. C. J. Henschel and C. Messick. No. 1,139,972; May 18; Gaz. vol. 214; p. 865.
- Control system, Series-parallel. J. F. Tritle. No. 1,160,673; Nov. 16; Gaz. vol. 220; p. 884.
- Controller. H. E. Goldberg. No. 1,165,663; Dec. 28; Gaz. vol. 221; p. 1149.
- Controller. A. Stern. No. 1,144,872; June 29; Gaz. vol. 215; p. 1450.
- Controller, Clock-driven. C. I. Hall. No. 1,156,400; Oct. 12; Gaz. vol. 219; p. 399.
- Controller-regulator. J. Y. Porter. No. 1,132,525; Mar. 16; Gaz. vol. 212; p. 1014.
- Controllers or composing-ribbons, Machine for making. G. R. Cornwall. No. 1,136,080; Apr. 20; Gaz. vol. 213; p. 788.
- Controlling and indicating device, Automatic. J. J. Sarsfield and A. W. Daily. No. 1,164,221; Dec. 14; Gaz. vol. 221; p. 563.
- Controlling apparatus. C. R. Pratt. No. 1,165,121; Dec. 21; Gaz. vol. 221; p. 921.
- Controlling apparatus. A. Sundh. No. 1,159,612; Nov. 9; Gaz. vol. 220; p. 453.
- Controlling device. J. M. Andersen. No. 1,165,935; Dec. 28; Gaz. vol. 221; p. 1242.
- Controlling device. G. W. Edwards. No. 1,137,054; Apr. 27; Gaz. vol. 213; p. 1173.
- Controlling device. C. M. Rice. No. 1,163,688; Dec. 14; Gaz. vol. 221; p. 378.
- Controlling device. A. C. Stewart. No. 1,161,265; Nov. 23; Gaz. vol. 220; p. 1139.
- Controlling mechanism. C. J. Powell. No. 1,164,749; Dec. 21; Gaz. vol. 221; p. 789.
- Controlling mechanism. E. E. Winkley. No. 1,129,371; Feb. 23; Gaz. vol. 211; p. 1072.
- Controlling system. H. W. Cheney. No. 1,127,185; Feb. 2; Gaz. vol. 211; p. 184.
- Controlling variable mechanisms, Means for. A. Sundh. No. 1,134,771; Apr. 6; Gaz. vol. 213; p. 252.
- Converter. C. L. Cadle. No. 1,129,330; Feb. 23; Gaz. vol. 211; p. 1057.
- Converter. H. Haas. No. 1,123,868; Jan. 5; Gaz. vol. 210; p. 229.
- Converter and transformer, Rotary. W. F. Rosebrock. No. 1,125,914; Jan. 19; Gaz. vol. 210; p. 1037.
- Converter system, High-tension. P. C. Hewitt. No. 1,161,670; Nov. 23; Gaz. vol. 220; p. 1280.
- Converters and furnaces, Means for increasing the air-blast of. R. Baggaley. No. 1,135,489; Apr. 13; Gaz. vol. 213; p. 541.
- Convertible bench. O. F. Malmberg. No. 1,139,693; May 18; Gaz. vol. 214; p. 767.
- Convertible bench. A. Nelson. No. 1,147,537; July 20; Gaz. vol. 216; p. 936.
- Convertible chair. L. J. Persson. No. 1,157,802; Oct. 26; Gaz. vol. 219; p. 983.
- Convertible chair. W. H. Pool. No. 1,158,280; Oct. 26; Gaz. vol. 219; p. 1151.
- Convertible chair. R. Rappel. No. 1,150,622; Aug. 17; Gaz. vol. 217; p. 925.
- Convertible chair. G. W. Rundle. No. 1,147,191; July 20; Gaz. vol. 216; p. 815.
- Convertible chair and bed. H. Bittel. No. 1,154,685; Sept. 28; Gaz. vol. 218; p. 915.
- Convertible table. J. M. Duchez. No. 1,150,349; Aug. 17; Gaz. vol. 217; p. 831.
- Convertible table. C. F. Kade. No. 1,151,470; Aug. 24; Gaz. vol. 217; p. 1270.
- Convex or concave bodies of felt or other flexible substances, Making. D. W. Anderson. No. 1,145,654; July 6; Gaz. vol. 216; p. 237.
- Conveyer. B. H. Alvey. No. 1,144,337; June 22; Gaz. vol. 215; p. 1238.
- Conveyer. W. S. Ayres. No. 1,136,578; Apr. 20; Gaz. vol. 213; p. 967.
- Conveyer. N. Brigham. No. 1,126,696; Feb. 2; Gaz. vol. 211; p. 10.
- Conveyer. G. D. Francisco. No. 1,132,713; Mar. 23; Gaz. vol. 212; p. 1130.
- Conveyer. E. L. Gale, Jr. No. 1,138,100; May 4; Gaz. vol. 214; p. 134.
- Conveyer. R. Keinanen. No. 1,149,919; Aug. 10; Gaz. vol. 217; p. 616.
- Conveyer. C. L. Lawton. No. 1,124,469; Jan. 12; Gaz. vol. 210; p. 487.
- Conveyer. J. J. Phillips. No. 1,128,898; Feb. 16; Gaz. vol. 211; p. 871.
- Conveyer. E. A. Reed. No. 1,158,848; Nov. 2; Gaz. vol. 220; p. 155.
- Conveyer. C. A. Stewart. No. 1,135,631; Apr. 13; Gaz. vol. 213; p. 592.
- Conveyer. O. Strunk. No. 1,156,721; Oct. 12; Gaz. vol. 219; p. 512.

Alphabetical list of inventions—Continued.

- Conveyer. F. R. Willson, Jr. No. 1,156,385; Oct. 12; Gaz. vol. 219; p. 394.
- Conveyer. H. B. Wycokoff. No. 1,130,458; Mar. 2; Gaz. vol. 212; p. 216.
- Conveyer and distributor, Automatic. H. C. Christoe. No. 1,142,025; June 8; Gaz. vol. 215; p. 368.
- Conveyer-carrier, Endless. B. N. Davis. No. 1,155,340; Oct. 5; Gaz. vol. 219; p. 6.
- Conveyer, Continuous. H. A. Carpenter. No. 1,144,323; June 22; Gaz. vol. 215; p. 1234.
- Conveyer for levee construction. J. Menzies. No. 1,153,851; Sept. 14; Gaz. vol. 218; p. 565.
- Conveyer for liquids, Rigid. T. M. Morewood. No. 1,147,421; July 20; Gaz. vol. 216; p. 897.
- Conveyer for metal rods. J. R. George. No. 1,139,027; May 11; Gaz. vol. 214; p. 499.
- Conveyer, Inclined. G. John. No. 1,162,783; Dec. 7; Gaz. vol. 221; p. 18.
- Conveyer mechanism. L. Tellefson. No. 1,159,129; Nov. 2; Gaz. vol. 220; p. 248.
- Conveyer or screen, Reciprocating. B. Norton. No. 1,146,947; July 20; Gaz. vol. 216; p. 731.
- Conveyer pipe and spout. A. H. Baysore. No. 1,124,259; Jan. 12; Gaz. vol. 210; p. 410.
- Conveyer, Reciprocating. A. C. Jefferson. No. 1,148,688; Aug. 3; Gaz. vol. 217; p. 74.
- Conveyer, Rotary. A. H. Koepp. No. 1,124,145; Jan. 5; Gaz. vol. 210; p. 321.
- Conveyer, Screening-. A. R. Houston. No. 1,136,674; Apr. 20; Gaz. vol. 213; p. 1000.
- Conveyer, Screening-. T. F. Webster. No. 1,142,648; June 8; Gaz. vol. 215; p. 584.
- Conveyer-sheet. E. O. Cartwright. No. 1,151,082; Aug. 24; Gaz. vol. 217; p. 1140.
- Conveyer, Spiral. M. U. Bernheim. No. 1,129,781; Feb. 23; Gaz. vol. 211; p. 1211.
- Conveyer, Swinging. J. N. Kailor. No. 1,137,979; May 4; Gaz. vol. 214; p. 90.
- Conveyer system. W. McClave. No. 1,165,791; Dec. 28; Gaz. vol. 221; p. 1193.
- Conveyer system. S. Olson. No. 1,135,316; Apr. 13; Gaz. vol. 213; p. 480.
- Conveyer system. J. A. Thornton. No. 1,145,525; July 6; Gaz. vol. 216; p. 192.
- Conveyers, Automatic control of. E. H. Messiter. No. 1,125,704; Jan. 19; Gaz. vol. 210; p. 964.
- Conveying and discharging apparatus. V. Vjecha. No. 1,157,466; Oct. 19; Gaz. vol. 219; p. 805.
- Conveying and separating apparatus. F. A. Middlestate. No. 1,150,286; Aug. 17; Gaz. vol. 217; p. 810.
- Conveying apparatus. T. Emtman. No. 1,123,715; Jan. 5; Gaz. vol. 210; p. 176.
- Conveying apparatus. J. L. Potter. No. 1,145,438; July 6; Gaz. vol. 216; p. 162.
- Conveying mechanism. A. O. Dupuy. No. 1,123,999; Jan. 5; Gaz. vol. 210; p. 271.
- Conveying mechanism. H. Marcus. No. 1,160,427; Nov. 16; Gaz. vol. 220; p. 793.
- Conveying, sorting, and screening system. G. Tollefson. No. 1,159,134; Nov. 2; Gaz. vol. 220; p. 250.
- Conveying system. M. U. Bernheim. No. 1,130,877; Mar. 9; Gaz. vol. 212; p. 395.
- Cooker. W. J. Burnett. No. 1,161,838; Nov. 30; Gaz. vol. 220; p. 1384.
- Cooker. A. J. Keast. No. 1,153,177; Sept. 7; Gaz. vol. 218; p. 286.
- Cooker. A. J. Kercher. No. 1,154,993; Sept. 28; Gaz. vol. 218; p. 1018.
- Cooker. J. J. Sleeper. No. 1,137,359; Apr. 27; Gaz. vol. 213; p. 1285.
- Cooker, Agricultural. C. F. Huffman. No. 1,148,684; Aug. 3; Gaz. vol. 217; p. 72.
- Cooker, Automatic. O. E. Vance and P. S. Baker. No. 1,139,932; May 18; Gaz. vol. 214; p. 851.
- Cooker, Continuous. A. L. Bausman. No. 1,141,862; June 1; Gaz. vol. 215; p. 270.
- Cooker, Electrically-heated. A. J. Kercher. No. 1,151,189; Aug. 24; Gaz. vol. 217; p. 1177.
- Cooker, Fireless. W. E. Coyle-Irving. No. 1,129,050; Feb. 16; Gaz. vol. 211; p. 925.
- Cooker, Fireless. F. H. Harper. No. 1,136,600; Apr. 20; Gaz. vol. 213; p. 974.
- Cooker, Fireless. H. Kibele. No. 1,145,998; July 13; Gaz. vol. 216; p. 378.
- Cooker, Fireless. H. Mock. No. 1,160,939; Nov. 16; Gaz. vol. 220; p. 976.
- Cooker, Fireless. W. C. Strauss. No. 1,152,861; Sept. 7; Gaz. vol. 218; p. 177.
- Cooker for oil bearing material and the like. A. W. French. No. 1,153,212; Sept. 14; Gaz. vol. 218; p. 336.
- Cooker or evaporator, Continuous. A. R. Morse. No. 1,153,170; Sept. 7; Gaz. vol. 218; p. 283.
- Cooker, Solar. H. A. Cherrier. No. 1,158,175; Oct. 26; Gaz. vol. 219; p. 1115.
- Cooker, Steam-. C. Wood. No. 1,146,225; July 13; Gaz. vol. 216; p. 457.
- Cookers and analogous apparatus, Gate-operating mechanism for meal. A. W. French. No. 1,161,041; Nov. 23; Gaz. vol. 220; p. 1058.
- Cooking apparatus. F. V. Detwiler. No. 1,125,075; Jan. 19; Gaz. vol. 210; p. 738.
- Cooking apparatus. R. M. G. Phillips. No. 1,161,522; Nov. 23; Gaz. vol. 220; p. 1229.
- Cooking apparatus. F. A. Vath. No. 1,135,473; Apr. 13; Gaz. vol. 213; p. 535.
- Cooking apparatus, Automatic. R. M. G. Phillips. No. 1,161,523; Nov. 23; Gaz. vol. 220; p. 1230.
- Cooking apparatus, Automatic. R. M. G. Phillips. No. 1,161,525; Nov. 23; Gaz. vol. 220; p. 1231.
- Cooking apparatus, Automatic liquid-fuel. R. M. G. Phillips. No. 1,150,620; Aug. 17; Gaz. vol. 217; p. 924.
- Cooking-apparatus cooking-compartment, Automatic. R. M. G. Phillips. No. 1,166,001; Dec. 28; Gaz. vol. 221; p. 1266.
- Cooking apparatus, Electric. R. Sprenger. No. 1,157,731; Oct. 26; Gaz. vol. 219; p. 960.
- Cooking apparatus, Portable or field. J. F. G. Roberts. No. 1,141,490; June 1; Gaz. vol. 215; p. 144.
- Cooking apparatus, Steam. S. Sacerdote. No. 1,144,002; June 22; Gaz. vol. 215; p. 1119.
- Cooking device. S. F. Pierce. No. 1,136,261; Apr. 20; Gaz. vol. 213; p. 853.
- Cooking device, Electrical. F. E. Carlson. No. 1,137,050; Apr. 27; Gaz. vol. 213; p. 1171.
- Cooking device, Portable gas. M. J. Green. No. 1,146,257; Aug. 10; Gaz. vol. 217; p. 377.
- Cooking-machine, Pressure. H. L. Stafford. No. 1,159,728; Nov. 9; Gaz. vol. 220; p. 495.
- Cooking oil-bearing material, Apparatus for and method of. A. W. French. No. 1,158,476; Nov. 2; Gaz. vol. 220; p. 22.
- Cooking oil-bearing material, Method of and apparatus for. A. W. French. No. 1,140,808; May 25; Gaz. vol. 214; p. 1191.
- Cooking or treating food. W. H. Tomlinson. No. 1,152,241; Aug. 31; Gaz. vol. 217; p. 1534.
- Cooking outfit, Camp. E. M. Chandler. No. 1,163,211; Dec. 7; Gaz. vol. 221; p. 167.
- Cooking pulse. E. J. Vaudreuil. No. 1,159,136; Nov. 2; Gaz. vol. 220; p. 250.
- Cooking pulse, Apparatus for. E. J. Vaudreuil. No. 1,131,299; Mar. 9; Gaz. vol. 212; p. 540.
- Cooking purposes, Heat-distributor plate for. S. Sauvage. No. 1,158,727; Nov. 2; Gaz. vol. 220; p. 110.
- Cooking-receptacle. V. T. Taylor. No. 1,141,020; May 25; Gaz. vol. 214; p. 1267.
- Cooking retort, Continuous can-. F. W. Burpee. No. 1,154,611; Sept. 28; Gaz. vol. 218; p. 888.
- Cooking utensil. L. S. Platau. No. 1,162,762; Dec. 7; Gaz. vol. 221; p. 10.
- Cooking utensil. E. K. Linton. No. 1,157,991; Oct. 26; Gaz. vol. 219; p. 1050.
- Cooking utensil. G. Mayer. No. 1,128,995; Feb. 16; Gaz. vol. 211; p. 905.
- Cooking utensil. R. B. McGee. No. 1,125,581; Jan. 19; Gaz. vol. 210; p. 917.
- Cooking utensil. E. R. Meyer. No. 1,160,934; Nov. 16; Gaz. vol. 220; p. 974.
- Cooking utensil. F. Mitchell-Colson. No. 1,133,168; Mar. 23; Gaz. vol. 212; p. 1298.
- Cooking utensil. J. Muller. No. 1,162,641; Nov. 30; Gaz. vol. 220; p. 1658.
- Cooking utensil. M. Overpack. No. 1,159,078; Nov. 2; Gaz. vol. 220; p. 230.
- Cooking utensil. H. A. Paquette. No. 1,142,052; June 8; Gaz. vol. 215; p. 376.
- Cooking utensil. W. Wrobel. No. 1,130,234; Mar. 2; Gaz. vol. 212; p. 136.
- Cooking-utensil attachment. F. J. Brending. No. 1,153,757; Sept. 14; Gaz. vol. 218; p. 530.
- Cooking-utensil attachment. D. A. Smith. No. 1,128,538; Feb. 16; Gaz. vol. 211; p. 745.
- Cooking-utensil cover. W. Post and A. Kleinfeldt. No. 1,149,289; Aug. 10; Gaz. vol. 217; p. 389.
- Cooking utensil, Electrically-heated. F. Kuhn and F. E. Shailor. No. 1,154,418; Sept. 21; Gaz. vol. 218; p. 794.
- Cooking utensil, High-pressure. T. J. Nash. No. 1,125,371; Jan. 19; Gaz. vol. 210; p. 845.
- Cooking utensils, Drain-lid for. G. Stricker. No. 1,148,634; Aug. 3; Gaz. vol. 217; p. 54.
- Cooking vessel. P. H. Schlueter. No. 1,135,210; Apr. 13; Gaz. vol. 213; p. 444.
- Cooking vessel. P. H. Schlueter. No. 1,136,277; Apr. 20; Gaz. vol. 213; p. 859.
- Cooking-vessel handle. J. B. J. Fournier. No. 1,143,898; June 22; Gaz. vol. 215; p. 1083.
- Cooking-vessel lid. F. W. Haverley. No. 1,123,285; Jan. 5; Gaz. vol. 210; p. 28.
- Cooking vessels, Detachable closure for. W. Domann and H. McPhee. No. 1,126,730; Feb. 2; Gaz. vol. 211; p. 22.
- Cooler. See—
- | | |
|---------------------------|------------------------------|
| Beer-cooler. | Feed-cooler. |
| Car-journal cooler. | Liquid-cooler. |
| Cake-cooler. | Milk-cooler. |
| Compressor-cooler. | Telephone-instrument cooler. |
| Cream, milk, &c., cooler. | |
| Engine-cooler. | |
- Cooler. R. Bonnell. No. 1,125,450; Jan. 19; Gaz. vol. 210; p. 874.
- Cooler. V. V. Pittman. No. 1,138,505; May 4; Gaz. vol. 214; p. 274.

Alphabetical list of inventions—Continued.

- Cooling and condensing apparatus. W. Schmidt. No. 1,123,392; Jan. 5; Gaz. vol. 210; p. 67.
- Cooling and disinfecting device. S. W. Womack. No. 1,129,772; Feb. 23; Gaz. vol. 211; p. 1208.
- Cooling fluids and the like. Device for. M. K. Willcox. No. 1,126,149; Jan. 26; Gaz. vol. 210; p. 1155.
- Cooling system. W. F. Doyle. No. 1,133,712; Mar. 30; Gaz. vol. 212; p. 1529.
- Cooling system. G. M. Eaton and S. W. Farnsworth. No. 1,159,910; Nov. 9; Gaz. vol. 220; p. 561.
- Cooling-tower. B. H. Coffey. No. 1,158,107; Oct. 26; Gaz. vol. 219; p. 1091.
- Coop. C. W. Ferguson. No. 1,135,886; Apr. 13; Gaz. vol. 213; p. 681.
- Coop. H. C. Hettesheimer. No. 1,135,583; Apr. 13; Gaz. vol. 213; p. 575.
- Coop. Automatic trap-nest. C. E. Sharp. No. 1,157,595; Oct. 19; Gaz. vol. 219; p. 846.
- Coop. Collapsible. J. C. Bledsoe. No. 1,161,108; Nov. 23; Gaz. vol. 220; p. 1080.
- Coop. Collapsible. A. P. Willoughby. No. 1,151,844; Aug. 31; Gaz. vol. 217; p. 1448.
- Coop. Collapsible chicken-. C. Gentry. No. 1,133,851; Mar. 30; Gaz. vol. 212; p. 1578.
- Coop. Collapsible chicken-. C. Wright. No. 1,145,646; July 6; Gaz. vol. 216; p. 235.
- Coop. Collapsible poultry-. J. M. Vaughan. No. 1,146,217; July 13; Gaz. vol. 216; p. 455.
- Coop. Folding. J. A. Reeder. No. 1,136,269; Apr. 20; Gaz. vol. 213; p. 856.
- Coop. Hen-. F. Nellen. No. 1,162,386; Nov. 30; Gaz. vol. 220; p. 1575.
- Coop or crate. Knockdown. A. J. Thunemann. No. 1,129,759; Feb. 23; Gaz. vol. 211; p. 1204.
- Coop or crate. Poultry. G. W. Roberts. No. 1,131,423; Mar. 9; Gaz. vol. 212; p. 583.
- Coop. Portable chicken-. H. E. Maltby. No. 1,159,323; Nov. 2; Gaz. vol. 220; p. 318.
- Coop. Poultry-. R. A. Bivins. No. 1,162,971; Dec. 7; Gaz. vol. 221; p. 83.
- Coop. Poultry-. J. C. Bledsoe. No. 1,164,457; Dec. 14; Gaz. vol. 221; p. 648.
- Coop. Poultry-. R. C. and D. W. Boxley. No. 1,127,583; Feb. 9; Gaz. vol. 211; p. 361.
- Coop. Poultry-. L. Clippinger. No. 1,151,865; Aug. 31; Gaz. vol. 217; p. 1456.
- Coop. Poultry-. B. Danley. No. 1,132,764; Mar. 23; Gaz. vol. 212; p. 1150.
- Cooperating keys. C. C. Chamberlin. No. 1,137,256; Apr. 27; Gaz. vol. 213; p. 1247.
- Coping-head. F. R. Patch. No. 1,149,533; Aug. 10; Gaz. vol. 217; p. 475.
- Copper-ammonia solutions of cellulose for the purpose of manufacturing artificial-silk threads or similar products. Precipitating. E. G. Legrand. No. 1,130,830; Mar. 9; Gaz. vol. 212; p. 378.
- Copper and making same. Reinforced. W. M. Page. No. 1,125,162; Jan. 19; Gaz. vol. 210; p. 769.
- Copper and making same. Reinforced. W. M. Page. No. 1,125,163; Jan. 19; Gaz. vol. 210; p. 769.
- Copper and producing the same. W. M. Page and W. Tassib. No. 1,125,164; Jan. 19; Gaz. vol. 210; p. 770.
- Copper constituents from cupriferous ores and their gangues. Extracting valuable. E. Erdős. No. 1,162,044; Nov. 30; Gaz. vol. 220; p. 1456.
- Copper. Effecting oxidation of. S. G. Martin. No. 1,164,838; Dec. 21; Gaz. vol. 221; p. 822.
- Copper. Electrolytic process for the extraction of. N. V. Hybinette. No. 1,136,424; Apr. 20; Gaz. vol. 213; p. 912.
- Copper. Electrolytic process of producing. M. Perreux-Lloyd. No. 1,133,059; Mar. 23; Gaz. vol. 212; p. 1259.
- Copper. Extracting. C. H. Benedict. No. 1,131,986; Mar. 16; Gaz. vol. 212; p. 818.
- Copper from a sulfate solution. Extracting. N. V. Hybinette. No. 1,140,682; May 25; Gaz. vol. 214; p. 1148.
- Copper from nickel and matte and other products. Separating. N. V. Hybinette. No. 1,128,313; Feb. 16; Gaz. vol. 211; p. 669.
- Copper from solution. Precipitating. G. D. Van Arsdale. No. 1,147,466; July 20; Gaz. vol. 216; p. 913.
- Copper. Metallurgy of. L. Addicks and C. L. Brower. No. 1,148,814; Aug. 3; Gaz. vol. 217; p. 119.
- Copper. Metallurgy of. R. F. Bacon. No. 1,151,236; Aug. 24; Gaz. vol. 217; p. 1194.
- Copper. Metallurgy of. E. A. C. Smith. No. 1,134,767; Apr. 6; Gaz. vol. 213; p. 250.
- Copper-nickel anodes. Producing. N. V. Hybinette. No. 1,128,314; Feb. 16; Gaz. vol. 211; p. 669.
- Copy-holder. F. A. Allen. No. 1,130,559; Mar. 2; Gaz. vol. 212; p. 252.
- Copy-holder. M. W. Swabb. No. 1,160,211; Nov. 16; Gaz. vol. 220; p. 719.
- Copy-holder and guide. Extensible. J. I. Woodstrom. No. 1,127,570; Feb. 9; Gaz. vol. 211; p. 357.
- Copy-holder, book-holder, &c. Combination. L. Putnam. No. 1,161,339; Nov. 23; Gaz. vol. 220; p. 1165.
- Copy-holder's line-guide. J. J. Snyder. No. 1,162,312; Nov. 30; Gaz. vol. 220; p. 1551.
- Copy-holders. Line-marking mechanism for. W. E. Gray. No. 1,144,190; June 22; Gaz. vol. 215; p. 1186.
- Copying and measuring curved outlines. Instrument for. P. D. E. Huguenin. No. 1,141,640; June 1; Gaz. vol. 215; p. 196.
- Copying device. W. Bauersfeld. No. 1,158,347; May 4; Gaz. vol. 214; p. 220.
- Copying-machine. Multiple. J. J. Flanagan. No. 1,141,702; June 1; Gaz. vol. 215; p. 218.
- Copying or printing machine. Rotary reproducing. E. Glas and B. C. Kal. No. 1,124,725; Jan. 12; Gaz. vol. 210; p. 579.
- Cord-adjuster. F. J. Gammache. No. 1,128,305; Feb. 16; Gaz. vol. 211; p. 666.
- Cord and twine cutter. S. Ball. No. 1,158,159; Oct. 26; Gaz. vol. 219; p. 1109.
- Cord-cutting device. W. Conness. No. 1,128,663; Feb. 16; Gaz. vol. 211; p. 788.
- Cord-fastener. A. J. MacKenzie. No. 1,148,847; Aug. 3; Gaz. vol. 217; p. 131.
- Cord-holder. E. J. Tichenor. No. 1,165,816; Dec. 28; Gaz. vol. 221; p. 1201.
- Cord-lead. S. Heyman. No. 1,138,476; May 4; Gaz. vol. 214; p. 266.
- Cord-support. C. H. Bissell and D. C. Gridley. No. 1,129,782; Feb. 23; Gaz. vol. 211; p. 1212.
- Cordage-machine. J. R. A. Vincent. No. 1,127,551; Feb. 9; Gaz. vol. 211; p. 351.
- Core-binder. A. J. Roy. No. 1,127,523; Feb. 9; Gaz. vol. 211; p. 341.
- Core. Collapsible. A. Adamson. No. 1,124,381; Jan. 12; Gaz. vol. 210; p. 455.
- Core. Collapsible. A. Adams. No. 1,125,431; Jan. 19; Gaz. vol. 210; p. 866.
- Core. Collapsible. D. R. Hanawalt. No. 1,164,345; Dec. 14; Gaz. vol. 221; p. 609.
- Core. Collapsible. G. E. Horton and C. S. Wagner. No. 1,136,805; Apr. 20; Gaz. vol. 213; p. 1047.
- Core. Collapsible. T. Sr. and T. Midgley, Jr. No. 1,157,117; Oct. 19; Gaz. vol. 219; p. 681.
- Core. Collapsible. G. H. Naylor. No. 1,133,445; Mar. 30; Gaz. vol. 212; p. 1431.
- Core. Collapsible. A. E. Williams. No. 1,162,961; Dec. 7; Gaz. vol. 221; p. 79.
- Core-drill. C. E. Wilder. No. 1,145,822; July 6; Gaz. vol. 216; p. 296.
- Core for molding. L. C. Howe. No. 1,143,399; June 15; Gaz. vol. 215; p. 889.
- Core for molds. L. C. Stewart and M. A. Quinn. No. 1,161,356; Nov. 23; Gaz. vol. 220; p. 1172.
- Core for molds. Sectional. O. B. Lindquist. No. 1,165,685; Dec. 28; Gaz. vol. 221; p. 1157.
- Core for paper and similar rolls. Expandable and contractible. C. E. Miser. No. 1,135,888; Apr. 13; Gaz. vol. 213; p. 505.
- Core for use in molds and forms. J. G. Chalfant and H. G. Haun. No. 1,140,499; May 25; Gaz. vol. 214; p. 1087.
- Core-making apparatus. G. E. Pickup. No. 1,143,861; June 22; Gaz. vol. 215; p. 1070.
- Core-making device. W. Johnston and C. H. Romer. No. 1,149,448; Aug. 10; Gaz. vol. 217; p. 446.
- Core-making machine. P. P. Busch. No. 1,150,497; Aug. 17; Gaz. vol. 217; p. 882.
- Core-mold. C. D. McArthur. No. 1,141,193; June 1; Gaz. vol. 215; p. 36.
- Core. Pile-. O. D. Wallett. No. 1,164,435; Dec. 14; Gaz. vol. 221; p. 640.
- Core-retaining device. M. D. Kuhlke. No. 1,140,045; May 18; Gaz. vol. 214; p. 892.
- Cores. Constructing collapsible. T. Sr. and T. Midgley, Jr. No. 1,157,118; Oct. 19; Gaz. vol. 219; p. 682.
- Cores from solid substances. Instrument for cutting. E. B. Canterbury. No. 1,162,901; Dec. 7; Gaz. vol. 221; p. 57.
- Cores. Making collapsible. P. Bacher. No. 1,139,325; May 11; Gaz. vol. 214; p. 599.
- Cores. Reinforcing-bushing for. T. Elixman. No. 1,137,470; Apr. 27; Gaz. vol. 213; p. 1323.
- Corer. I. C. Hunt. No. 1,135,185; Apr. 13; Gaz. vol. 213; p. 436.
- Coring and slicing fruit and the like. Device for. W. E. Kellaway and E. A. Christoph. No. 1,148,488; July 27; Gaz. vol. 216; p. 1298.
- Coring and slicing machine. Apple. S. J. McVey. No. 1,146,085; July 13; Gaz. vol. 216; p. 409.
- Coring and slicing machine. Pineapple. F. W. Wolf. No. 1,142,216; June 8; Gaz. vol. 215; p. 434.
- Coring and slicing machine. Pineapple-corer in a. F. W. Wolf. No. 1,142,217; June 8; Gaz. vol. 215; p. 434.
- Coring-machine. J. W. Linville and C. C. Tillman. No. 1,155,252; Sept. 28; Gaz. vol. 218; p. 1106.
- Cork articles. Making artificial. H. Paschke. No. 1,131,860; Mar. 16; Gaz. vol. 212; p. 772.
- Cork. Artificial. M. Marsa. No. 1,152,193; Aug. 31; Gaz. vol. 217; p. 1568.
- Cork compressor. Composition-. A. H. Biertuempfel. No. 1,128,840; Feb. 16; Gaz. vol. 211; p. 850.
- Cork-cutting-machine feeding attachment. A. Bogdanffy. No. 1,125,923; Jan. 26; Gaz. vol. 210; p. 1071.
- Cork-drawing appliance. K. Freuler. No. 1,123,723; Jan. 5; Gaz. vol. 210; p. 179.

Alphabetical list of inventions—Continued.

- Cork-extractor. E. Balthazar. No. 1,155,193; Sept. 28; Gaz. vol. 218; p. 1089.
- Cork-extractor. H. Beckley. No. 1,149,112; Aug. 3; Gaz. vol. 217; p. 219.
- Cork-extractor. J. H. Du Bose. No. 1,123,259; Jan. 5; Gaz. vol. 210; p. 19.
- Cork-extractor. N. Freres. No. 1,124,125; Jan. 5; Gaz. vol. 210; p. 315.
- Cork-extractor. J. H. A. Stapley. No. 1,140,082; May 18; Gaz. vol. 214; p. 905.
- Cork-machine. A. Caminiti. No. 1,162,567; Nov. 30; Gaz. vol. 220; p. 1636.
- Cork, Mold for forming blocks of. F. R. Metz and E. Hornstein. No. 1,139,699; May 18; Gaz. vol. 214; p. 770.
- Cork-puller. J. J. Barrett. No. 1,162,017; Nov. 30; Gaz. vol. 220; p. 1448.
- Cork-soaking device. J. D. McIntyre. No. 1,126,239; Jan. 26; Gaz. vol. 210; p. 1189.
- Cork-sorting machine. Crown. A. Bogdanffy. No. 1,148,005; July 27; Gaz. vol. 216; p. 1127.
- Cork, Treatment of. M. Grunzweig. No. 1,155,057; Sept. 28; Gaz. vol. 218; p. 1040.
- Corks, Guard for bottle. T. W. Chapman. No. 1,158,028; Oct. 26; Gaz. vol. 219; p. 1063.
- Corks in bottles, Machine for inserting shell. E. Horn and E. Sherman. No. 1,125,326; Jan. 19; Gaz. vol. 210; p. 828.
- Corks, Machine for manufacturing wood-top. A. Bogdanffy. No. 1,132,238; Mar. 16; Gaz. vol. 212; p. 910.
- Corn and cotton stalk cutter. R. B. Pair. No. 1,128,496; Feb. 16; Gaz. vol. 211; p. 731.
- Corn-binder attachment. G. A. Helsz. No. 1,129,674; Feb. 23; Gaz. vol. 211; p. 1177.
- Corn case, Seed-. R. E. Locke. No. 1,157,790; Oct. 26; Gaz. vol. 219; p. 978.
- Corn-cutter. F. Fournier. No. 1,139,856; May 18; Gaz. vol. 214; p. 824.
- Corn-cutter. E. P. Turner. No. 1,127,548; Feb. 9; Gaz. vol. 211; p. 349.
- Corn cutting and shocking machine. A. N. Hadley. No. 1,145,863; July 6; Gaz. vol. 216; p. 311.
- Corn-cutting machine. C. Royer. No. 1,137,667; Apr. 27; Gaz. vol. 213; p. 1388.
- Corn, Device for topping. Kafir. A. Nicholson. No. 1,125,379; Jan. 19; Gaz. vol. 210; p. 849.
- Corn-drier. J. Q. Clarke. No. 1,155,889; Oct. 5; Gaz. vol. 219; p. 196.
- Corn drier and tester. H. McCabe. No. 1,152,329; Aug. 31; Gaz. vol. 217; p. 1614.
- Corn-extractor. E. K. Ostness. No. 1,133,881; Mar. 30; Gaz. vol. 212; p. 1589.
- Corn hanger or drying-rack, Seed-. E. E. Brown. No. 1,142,484; June 8; Gaz. vol. 215; p. 529.
- Corn hanger, Seed-. W. Weaver. No. 1,145,104; July 6; Gaz. vol. 216; p. 47.
- Corn header, Kafir-. J. W. Hoover. No. 1,138,953; May 11; Gaz. vol. 214; p. 470.
- Corn header, Kafir-. W. F. Reschke. No. 1,160,759; Nov. 16; Gaz. vol. 220; p. 914.
- Corn header, Kafir-. W. P. Shelhamer. No. 1,131,091; Mar. 9; Gaz. vol. 212; p. 468.
- Corn header, Kafir-. C. Woodall. No. 1,141,372; June 1; Gaz. vol. 215; p. 102.
- Corn-husker. A. J. Markham. No. 1,133,736; Mar. 30; Gaz. vol. 212; p. 1537.
- Corn-husker. F. H. Scherbring. No. 1,146,285; July 13; Gaz. vol. 216; p. 478.
- Corn-husker. W. H. Sells. No. 1,147,756; July 27; Gaz. vol. 216; p. 1040.
- Corn husker and stripper, Combined. R. N. Thomas. No. 1,134,245; Apr. 6; Gaz. vol. 213; p. 59.
- Corn-husker feeding mechanism. J. H. Pierce. No. 1,160,088; Nov. 9; Gaz. vol. 220; p. 621.
- Corn-husker shredder. F. N. G. Kranich. No. 1,142,181; June 8; Gaz. vol. 215; p. 422.
- Corn huskers and shredders, Elevator for. J. E. Graper. No. 1,146,866; July 20; Gaz. vol. 216; p. 701.
- Corn husking and harvesting machine. B. C. Small. No. 1,160,777; Nov. 16; Gaz. vol. 220; p. 920.
- Corn husking and shredding machines, Self-feeder for. A. Rosenthal. No. 1,142,844; June 15; Gaz. vol. 215; p. 690.
- Corn-husking device. J. A. Nelson. No. 1,165,534; Dec. 28; Gaz. vol. 221; p. 1102.
- Corn-husking implement. C. M. Bobbitt. No. 1,161,020; Nov. 23; Gaz. vol. 220; p. 1050.
- Corn-husking machine. S. German. No. 1,134,449; Apr. 6; Gaz. vol. 213; p. 134.
- Corn-husking machine. F. J. Noechel. No. 1,149,280; Aug. 10; Gaz. vol. 217; p. 385.
- Corn-husking machine. G. L. Phelps. No. 1,157,038; Oct. 19; Gaz. vol. 219; p. 654.
- Corn-husking machine. J. J. Power. No. 1,133,817; Mar. 30; Gaz. vol. 212; p. 1566.
- Corn-husking machine. R. Schmidt. No. 1,145,037; July 6; Gaz. vol. 216; p. 22.
- Corn-husking machine. W. H. Tschantz. No. 1,155,173; Sept. 28; Gaz. vol. 218; p. 1082.
- Corn-kiln. R. D. King. No. 1,152,644; Sept. 7; Gaz. vol. 218; p. 97.
- Corn-mill. R. C. Meadows. No. 1,133,993; Mar. 30; Gaz. vol. 212; p. 1622.
- Corn-picker. B. Gronke. No. 1,145,890; July 13; Gaz. vol. 216; p. 339.
- Corn picking and husking machine. P. J. Staab. No. 1,131,800; Mar. 16; Gaz. vol. 212; p. 751.
- Corn-popper. F. A. Traver. No. 1,153,465; Sept. 14; Gaz. vol. 218; p. 428.
- Corn-popper. W. Williams. No. 1,160,231; Nov. 16; Gaz. vol. 220; p. 726.
- Corn-popping device. D. H. Talbert. No. 1,165,556; Dec. 28; Gaz. vol. 221; p. 1109.
- Corn-popping machines and the like, Hot-plate-heating means for. F. Hoke. No. 1,152,950; Sept. 7; Gaz. vol. 218; p. 209.
- Corn-sheller. C. Graves. No. 1,143,186; June 15; Gaz. vol. 215; p. 813.
- Corn-sheller. W. Watts. No. 1,137,100; Apr. 27; Gaz. vol. 213; p. 1189.
- Corn-shelling machine. J. F. Kienzle. No. 1,155,155; Sept. 28; Gaz. vol. 218; p. 1076.
- Corn-shelling machine. C. P. Oeth. No. 1,138,779; May 11; Gaz. vol. 214; p. 409.
- Corn-shredders, Feeding device for. P. Weymann. No. 1,141,736; June 1; Gaz. vol. 215; p. 230.
- Corn snapping and husking rolls. H. E. Rupp. No. 1,123,806; Jan. 5; Gaz. vol. 210; p. 207.
- Corn-stringing device. R. Harden. No. 1,135,791; Apr. 13; Gaz. vol. 213; p. 647.
- Corn-tipper. J. J. Mathey. No. 1,131,938; Mar. 16; Gaz. vol. 212; p. 800.
- Corn-topper. G. Hill. No. 1,130,085; Mar. 2; Gaz. vol. 212; p. 85.
- Corn-topping machine. W. Lancaster. No. 1,128,464; Feb. 16; Gaz. vol. 211; p. 720.
- Corn-topping machine. A. F. Tucker. No. 1,135,079; Apr. 13; Gaz. vol. 213; p. 400.
- Corner-bead blanks, Machine for making. N. E. Clark. No. 1,142,493; June 8; Gaz. vol. 215; p. 533.
- Corner-bead clip. G. S. Knapp. No. 1,145,198; July 6; Gaz. vol. 216; p. 78.
- Corner-bead, &c., Machine for making. N. E. Clark. No. 1,129,454; Feb. 23; Gaz. vol. 211; p. 1101.
- Corner-bead manufacture. N. E. Clark. No. 1,142,494; June 8; Gaz. vol. 215; p. 533.
- Corner-bead, Metal. R. C. Alyn. No. 1,151,554; Aug. 31; Gaz. vol. 217; p. 1347.
- Corner-bracket. C. S. Skillen. No. 1,147,901; July 27; Gaz. vol. 216; p. 1091.
- Corner cutting and bending machine. H. B. Smith and J. D. Reifsnnyder. No. 1,160,540; Nov. 16; Gaz. vol. 220; p. 834.
- Corner-joint for screen and other frames. F. W. and R. S. Van Fleet. No. 1,161,169; Nov. 23; Gaz. vol. 220; p. 1104.
- Corner-post fastener. A. Wolf and A. Governale. No. 1,143,796; June 22; Gaz. vol. 215; p. 1047.
- Corner-post fastening. A. Wolf. No. 1,161,432; Nov. 23; Gaz. vol. 220; p. 1199.
- Cornet. M. J. Kalashen. No. 1,139,297; May 11; Gaz. vol. 214; p. 520.
- Cornet. C. L. W. Nelson. No. 1,165,278; Dec. 21; Gaz. vol. 221; p. 975.
- Cornets and the like, Mouthpiece for. D. A. McDonald. No. 1,166,137; Dec. 28; Gaz. vol. 221; p. 1316.
- Cornice-mold. T. F. Horan. No. 1,149,367; Aug. 10; Gaz. vol. 217; p. 418.
- Cornices, Streak-preventing device for. H. E. Harris. No. 1,142,253; June 8; Gaz. vol. 215; p. 447.
- Cornucopia-holder. J. Lindberg. No. 1,139,128; May 11; Gaz. vol. 214; p. 534.
- Corona loss, Means for preventing. E. Thomson. No. 1,157,344; Oct. 19; Gaz. vol. 219; p. 762.
- Corrugated board, Machine for making wired. L. Schmidt. No. 1,159,716; Nov. 9; Gaz. vol. 220; p. 490.
- Corrugated board, Machine for manufacturing double-faced. T. E. Raffel. No. 1,146,771; July 13; Gaz. vol. 216; p. 648.
- Corrugated-link bed fabric. G. B. Smith. No. 1,148,722; Aug. 3; Gaz. vol. 217; p. 85.
- Corrugated pipe. F. N. Holmquist. No. 1,140,981; May 25; Gaz. vol. 214; p. 1254.
- Corrugating-machine. R. W. Nazel. No. 1,128,621; Feb. 16; Gaz. vol. 211; p. 774.
- Corrugating-machine. R. W. Nazel. No. 1,161,510; Nov. 23; Gaz. vol. 220; p. 1225.
- Corset. A. Abt. No. 1,155,864; Oct. 5; Gaz. vol. 219; p. 188.
- Corset. S. F. Colman. No. 1,143,944; June 22; Gaz. vol. 215; p. 1099.
- Corset. J. Goldberg. No. 1,150,593; Aug. 17; Gaz. vol. 217; p. 915.
- Corset. C. E. Hayes. No. 1,126,207; Jan. 26; Gaz. vol. 210; p. 1177.
- Corset. L. Margolis. No. 1,136,024; Apr. 20; Gaz. vol. 213; p. 770.
- Corset. F. J. McDermott. No. 1,133,485; Mar. 30; Gaz. vol. 212; p. 1444.
- Corset. C. H. Schopbach. No. 1,133,824; Mar. 30; Gaz. vol. 212; p. 1569.
- Corset. E. Schweinburg. No. 1,137,539; Apr. 27; Gaz. vol. 213; p. 1347.

Alphabetical list of inventions—Continued.

- Corset. E. Schweinburg. No. 1,137,540; Apr. 27; Gaz. vol. 213; p. 1347.
- Corset. T. F. Somers. No. 1,147,453; July 20; Gaz. vol. 216; p. 908.
- Corset. A. Spiegel. No. 1,134,023; Mar. 30; Gaz. vol. 212; p. 1633.
- Corset. Apparel. D. Kops. No. 1,127,023; Feb. 2; Gaz. vol. 211; p. 127.
- Corset. Apparel. D. Kops. No. 1,127,024; Feb. 2; Gaz. vol. 211; p. 128.
- Corset. Apparel. D. Kops. No. 1,135,698; Apr. 13; Gaz. vol. 213; p. 616.
- Corset. Apparel. D. Kops. No. 1,152,109; Aug. 31; Gaz. vol. 217; p. 1539.
- Corset. Apparel. D. Kops. No. 1,152,954; Sept. 7; Gaz. vol. 218; p. 211.
- Corset-busk and fastening means therefor. E. Schweinburg. No. 1,137,542; Apr. 27; Gaz. vol. 213; p. 1347.
- Corset clasp or stay. Extensible. W. Birse. No. 1,156,205; Oct. 12; Gaz. vol. 219; p. 330.
- Corset front post. E. J. Agee. No. 1,150,726; Aug. 17; Gaz. vol. 217; p. 961.
- Corset. Invalid's. J. M. Bodensiek. No. 1,152,595; Sept. 7; Gaz. vol. 218; p. 80.
- Corset. Life-saving. P. F. Leitner. No. 1,139,043; May 11; Gaz. vol. 214; p. 504.
- Corset or waist. W. McCabe. No. 1,123,907; Jan. 5; Gaz. vol. 210; p. 242.
- Corset. Reinforced. F. G. McDermott. No. 1,140,691; May 25; Gaz. vol. 214; p. 1152.
- Corset-steel. K. B. Montre. No. 1,144,912; June 29; Gaz. vol. 215; p. 1463.
- Corset-steel. T. F. Somers. No. 1,147,454; July 20; Gaz. vol. 216; p. 909.
- Corset. Surgical. H. E. Curtis. No. 1,134,441; Apr. 6; Gaz. vol. 213; p. 130.
- Corset. Surgical. H. A. Prince. No. 1,137,899; May 4; Gaz. vol. 214; p. 61.
- Corset. Washable. Y. Saynisch. No. 1,147,555; July 20; Gaz. vol. 216; p. 943.
- Corsets and the like. Closing contrivance for. G. Kosel. No. 1,133,479; Mar. 30; Gaz. vol. 212; p. 1442.
- Costumer. T. P. Forman. No. 1,136,787; Apr. 20; Gaz. vol. 213; p. 1041.
- Costumer. L. L. Moses. No. 1,160,313; Nov. 16; Gaz. vol. 220; p. 754.
- Cot and stretcher. Combination folding. J. Fekete. No. 1,144,760; June 29; Gaz. vol. 215; p. 1411.
- Cot. Foldable. J. Tomassi and Z. Lobodzinski. No. 1,130,122; Mar. 2; Gaz. vol. 212; p. 97.
- Cot. Portable knockdown sheltered. H. Mattes. No. 1,135,707; Apr. 13; Gaz. vol. 213; p. 619.
- Cots or couch-beds. Locking means for folding. H. J. Quincy. No. 1,157,254; Oct. 19; Gaz. vol. 219; p. 731.
- Cotter-forming die. H. H. Shelton. No. 1,151,411; Aug. 24; Gaz. vol. 217; p. 1250.
- Cotter-key. R. W. Fouts. No. 1,154,753; Sept. 28; Gaz. vol. 218; p. 937.
- Cotter-making die. H. H. Shelton. No. 1,151,410; Aug. 24; Gaz. vol. 217; p. 1250.
- Cotter-pin. H. G. McComb. No. 1,157,946; Oct. 26; Gaz. vol. 219; p. 1034.
- Cotter-pin-extracting tool. J. W. Lovering. No. 1,153,849; Sept. 14; Gaz. vol. 218; p. 565.
- Cotters or keys. Machine for making. H. H. Shelton. No. 1,151,409; Aug. 24; Gaz. vol. 217; p. 1250.
- Cotton and the like. Apparatus for blooming and cleansing. J. E. Reardon. No. 1,129,902; Mar. 2; Gaz. vol. 212; p. 24.
- Cotton-boll picker. D. Hewitt. No. 1,138,952; May 11; Gaz. vol. 214; p. 470.
- Cotton-boll separator. W. A. Patterson. No. 1,130,102; Mar. 2; Gaz. vol. 212; p. 90.
- Cotton-bolls. Maturing immature and frost-bitten. J. E. Lee. No. 1,166,060; Dec. 28; Gaz. vol. 221; p. 1285.
- Cotton-bolls. Treating. J. B. Hall. No. 1,166,127; Dec. 28; Gaz. vol. 221; p. 1311.
- Cotton-chopper. J. B. Adams and L. M. Miller. No. 1,132,543; Mar. 23; Gaz. vol. 212; p. 1067.
- Cotton-chopper. W. A. Baker. No. 1,131,028; Mar. 9; Gaz. vol. 212; p. 447.
- Cotton-chopper. J. L. Barr. No. 1,145,964; July 13; Gaz. vol. 216; p. 365.
- Cotton-chopper. M. A. Crum. No. 1,123,699; Jan. 5; Gaz. vol. 210; p. 171.
- Cotton-chopper. O. B. Elkins. No. 1,165,162; Dec. 21; Gaz. vol. 221; p. 935.
- Cotton-chopper. A. M. Finch. No. 1,127,220; Feb. 2; Gaz. vol. 211; p. 196.
- Cotton-chopper. J. P. Findley. No. 1,140,144; May 18; Gaz. vol. 214; p. 928.
- Cotton-chopper. D. B. Fultz. No. 1,133,553; Mar. 30; Gaz. vol. 212; p. 1470.
- Cotton-chopper. J. B. Gant. No. 1,132,656; Mar. 23; Gaz. vol. 212; p. 1111.
- Cotton-chopper. R. Hamilton. No. 1,135,790; Apr. 13; Gaz. vol. 213; p. 647.
- Cotton-chopper. M. A. Jones. No. 1,163,240; Dec. 7; Gaz. vol. 221; p. 177.
- Cotton-chopper. J. H. Lanham. No. 1,133,044; Mar. 23; Gaz. vol. 212; p. 1254.
- Cotton-chopper. J. W. Patterson. No. 1,145,790; July 6; Gaz. vol. 216; p. 285.
- Cotton-chopper. S. M. Pool and W. Bunch. No. 1,134,060; Mar. 30; Gaz. vol. 212; p. 1646.
- Cotton-chopper. I. A. Rice. No. 1,125,714; Jan. 19; Gaz. vol. 210; p. 968.
- Cotton-chopper. J. T. Richey. No. 1,152,975; Sept. 7; Gaz. vol. 218; p. 219.
- Cotton-chopper. H. Strong. No. 1,164,029; Dec. 14; Gaz. vol. 221; p. 499.
- Cotton-chopper and cultivator. J. J. Eargle. No. 1,166,195; Dec. 28; Gaz. vol. 221; p. 1337.
- Cotton-chopping machine. M. C. Brewer. No. 1,136,930; Apr. 27; Gaz. vol. 213; p. 1127.
- Cotton-chopping machine. H. V. Jobe. No. 1,135,287; Apr. 13; Gaz. vol. 213; p. 470.
- Cotton-cleaner. J. E. Haney and E. C. Young. No. 1,146,066; July 13; Gaz. vol. 216; p. 402.
- Cotton-cleaner. C. D. Terrell and J. L. Mask. No. 1,141,366; June 1; Gaz. vol. 215; p. 99.
- Cotton-comber. G. M. Whitin. No. 1,151,143; Aug. 24; Gaz. vol. 217; p. 1161.
- Cotton-combers. Nipper-motion drive for. H. A. Owen. No. 1,157,033; Oct. 19; Gaz. vol. 219; p. 652.
- Cotton. Combing. G. M. Whitin. No. 1,141,673; June 1; Gaz. vol. 215; p. 209.
- Cotton-compress. W. Hill. No. 1,164,519; Dec. 14; Gaz. vol. 221; p. 670.
- Cotton device. Cleaning. E. E. Dickerson. No. 1,149,253; Aug. 10; Gaz. vol. 217; p. 375.
- Cotton-drying apparatus. A. A. Evans. No. 1,128,592; Feb. 16; Gaz. vol. 211; p. 763.
- Cotton extracting and cleaning machine. J. E. Mitchell. No. 1,129,220; Feb. 23; Gaz. vol. 211; p. 1019.
- Cotton extracting and cleaning machine. J. E. Mitchell. No. 1,166,072; Dec. 28; Gaz. vol. 221; p. 1289.
- Cotton fabrics. Production of pattern effects upon. G. Heberlein. No. 1,144,655; June 29; Gaz. vol. 215; p. 1374.
- Cotton from bolls. Picking and separating. J. Meier. No. 1,146,013; July 13; Gaz. vol. 216; p. 384.
- Cotton-gathering machine. T. E. Brown and C. T. Westlin. No. 1,129,164; Feb. 23; Gaz. vol. 211; p. 999.
- Cotton-gin. E. A. Carmouche. No. 1,151,565; Aug. 31; Gaz. vol. 217; p. 1351.
- Cotton-gin. M. E. Murphy. No. 1,163,946; Dec. 14; Gaz. vol. 221; p. 469.
- Cotton-gin. N. P. Pearse. No. 1,157,720; Oct. 26; Gaz. vol. 219; p. 955.
- Cotton-gin. L. K. Stephens. No. 1,125,203; Jan. 19; Gaz. vol. 210; p. 784.
- Cotton-gin. J. Wooldridge. No. 1,124,094; Jan. 5; Gaz. vol. 210; p. 304.
- Cotton-gin. A. A. Zalondek. No. 1,155,188; Sept. 28; Gaz. vol. 218; p. 1087.
- Cotton-gin roller. I. Meurling. No. 1,128,706; Feb. 16; Gaz. vol. 211; p. 802.
- Cotton-gins. Pneumatic seed and dust conveyor for. S. Willis. No. 1,156,196; Oct. 12; Gaz. vol. 219; p. 327.
- Cotton ginning and cleaning. W. E. Moore. No. 1,136,969; Apr. 27; Gaz. vol. 213; p. 1141.
- Cotton-ginning-mechanism separator. C. C. Broome. No. 1,159,168; Nov. 2; Gaz. vol. 220; p. 262.
- Cotton-holder and massage device. Combined. K. W. Hester. No. 1,158,214; Oct. 26; Gaz. vol. 219; p. 1128.
- Cotton-buller. J. C. Conrad. No. 1,139,345; May 11; Gaz. vol. 214; p. 607.
- Cotton-lint picker. I. Meurling. No. 1,123,344; Jan. 5; Gaz. vol. 210; p. 51.
- Cotton-loader. A. Newell. No. 1,138,007; May 4; Gaz. vol. 214; p. 99.
- Cotton-packer. R. L. Wright. No. 1,148,067; July 27; Gaz. vol. 216; p. 1150.
- Cotton packing or baling device. P. K. Richardson. No. 1,154,655; Sept. 28; Gaz. vol. 218; p. 904.
- Cotton-picker. L. H. Creekmore. No. 1,139,492; May 18; Gaz. vol. 214; p. 696.
- Cotton-picker. W. E. Pehl. No. 1,160,446; Nov. 16; Gaz. vol. 220; p. 800.
- Cotton-picker. E. S. Scheble. No. 1,123,601; Jan. 5; Gaz. vol. 210; p. 138.
- Cotton-picker. T. E. Straus. No. 1,123,620; Jan. 5; Gaz. vol. 210; p. 144.
- Cotton-picker. L. C. Stukenborg. No. 1,131,804; Mar. 16; Gaz. vol. 212; p. 752.
- Cotton-picker. C. Volkmann. No. 1,145,174; July 6; Gaz. vol. 216; p. 70.
- Cotton-picker's knee-rest. P. Prince. No. 1,138,973; May 11; Gaz. vol. 214; p. 478.
- Cotton-picking device. G. H. Vincent. No. 1,128,556; Feb. 16; Gaz. vol. 211; p. 751.
- Cotton-picking machine. T. Matlock. No. 1,147,961; July 27; Gaz. vol. 216; p. 1112.
- Cotton-picking machine. J. Meier. No. 1,135,202; Apr. 13; Gaz. vol. 213; p. 442.
- Cotton-picking machine. G. A. Pruser. No. 1,134,158; Apr. 6; Gaz. vol. 213; p. 26.
- Cotton-picking machine. E. H. Schofield. No. 1,130,847; Mar. 9; Gaz. vol. 212; p. 335.
- Cotton-picking machines. Picking mechanism for. B. C. Calderwood. No. 1,161,611; Nov. 23; Gaz. vol. 220; p. 1260.

Alphabetical list of inventions—Continued.

- Cotton-picking machines, Suction-cup for. J. Meier. No. 1,127,482; Feb. 9; Gaz. vol. 211; p. 328.
- Cotton-plant and product thereof, Utilizing waste substances of the. M. W. Marsden. No. 1,143,587; June 15; Gaz. vol. 215; p. 952.
- Cotton-press. A. L. Treese. No. 1,125,768; Jan. 19; Gaz. vol. 210; p. 986.
- Cotton-scraper. T. D. and C. W. Folsom. No. 1,124,120; Jan. 5; Gaz. vol. 210; p. 313.
- Cotton-seed meal, cotton-seed meats, and cotton-seed flour, Treating. J. G. Falls. No. 1,142,243; June 8; Gaz. vol. 215; p. 443.
- Cotton-separator. J. Y. Hughes. No. 1,153,180; Sept. 7; Gaz. vol. 218; p. 287.
- Cotton-stalk cutter. W. B. Hickey. No. 1,129,675; Feb. 23; Gaz. vol. 211; p. 1177.
- Cotton-stalk puller. W. A. Graves. No. 1,146,762; July 13; Gaz. vol. 216; p. 645.
- Cotton-stalk puller and cutter. L. Walters. No. 1,148,878; Aug. 3; Gaz. vol. 217; p. 140.
- Cotton-tramper. R. Murray. No. 1,163,843; Dec. 14; Gaz. vol. 221; p. 434.
- Cotton-trampers, Automatic controller for. T. W. Sparks. No. 1,141,218; June 1; Gaz. vol. 215; p. 45.
- Couch and bed, Combined. C. Pessarra. No. 1,139,442; May 11; Gaz. vol. 214; p. 643.
- Couch and chair, Convertible and folding. J. Luppino. No. 1,145,777; July 6; Gaz. vol. 216; p. 281.
- Couch, Exercising-. R. S. Bolger. No. 1,158,779; Nov. 2; Gaz. vol. 220; p. 130.
- Couch, Folding. F. L. Andren. No. 1,155,779; Oct. 5; Gaz. vol. 219; p. 157.
- Couch, Folding. J. L. Moore and F. L. Musser. No. 1,156,704; Oct. 12; Gaz. vol. 219; p. 506.
- Couch or davenport bed. H. and N. M. Freedman. No. 1,131,358; Mar. 9; Gaz. vol. 212; p. 559.
- Couch-roll, Suction. F. H. Hoberg and C. S. Thomas, Jr. No. 1,159,381; Nov. 9; Gaz. vol. 220; p. 370.
- Counter. E. P. Baird. No. 1,143,021; June 15; Gaz. vol. 215; p. 754.
- Counter and stop device, Automatic. P. Hanson. No. 1,147,798; July 27; Gaz. vol. 216; p. 1053.
- Counter-bracket. S. A. Hathorne. No. 1,155,149; Sept. 28; Gaz. vol. 218; p. 1073.
- Counter for blanks. E. G. Staude. No. 1,154,451; Sept. 21; Gaz. vol. 218; p. 805.
- Counter mechanism. C. J. Fancher. No. 1,141,623; June 1; Gaz. vol. 215; p. 191.
- Counter-molding machine. R. A. Lancey. No. 1,138,123; May 4; Gaz. vol. 214; p. 142.
- Counter-shaft, Variable-speed. E. F. Beugler. No. 1,127,166; Feb. 2; Gaz. vol. 211; p. 177.
- Counter-torque exerting device. W. S. Henry. No. 1,164,517; Dec. 14; Gaz. vol. 221; p. 669.
- Counter-train. J. K. Stewart. No. 1,158,579; Nov. 2; Gaz. vol. 220; p. 60.
- Counters, Resetting mechanism for. J. F. Ohmer and E. H. Bridenbaugh. No. 1,166,383; Dec. 28; Gaz. vol. 221; p. 1406.
- Counterbalancing device. J. B. Strauss. No. 1,150,153; Aug. 17; Gaz. vol. 217; p. 762.
- Counterbalancing device. J. J. Strong. No. 1,155,846; Oct. 5; Gaz. vol. 219; p. 183.
- Counting and stamping mechanism, Combined. A. M. Augensen. No. 1,130,682; Mar. 2; Gaz. vol. 212; p. 294.
- Counting and weighing machine. G. W. Drexelius. No. 1,134,112; Apr. 6; Gaz. vol. 213; p. 10.
- Counting apparatus. F. S. Tayman. No. 1,146,975; July 20; Gaz. vol. 216; p. 741.
- Counting attachment, Line-. O. Thieme. No. 1,163,282; Dec. 7; Gaz. vol. 221; p. 191.
- Counting cans and other articles, Device for. O. J. Johnson. No. 1,123,545; Jan. 5; Gaz. vol. 210; p. 119.
- Counting device. H. Foster. No. 1,128,594; Feb. 16; Gaz. vol. 211; p. 764.
- Counting device. E. G. McGinley. No. 1,144,487; June 29; Gaz. vol. 215; p. 1318.
- Counting machine, Coin-. A. C. O. Bock. No. 1,160,830; Nov. 16; Gaz. vol. 220; p. 939.
- Counting machine, Money-. I. D. Fuller. No. 1,162,597; Nov. 30; Gaz. vol. 220; p. 1645.
- Counting mechanism. J. Rousso. No. 1,147,552; July 20; Gaz. vol. 216; p. 941.
- Counting paper money, Machine for. J. P. Buckley. No. 1,159,826; Nov. 9; Gaz. vol. 220; p. 531.
- Coupling. *See—*
- Adjustable coupling.
- Air and steam coupling.
- Air-brake coupling.
- Automatic coupling.
- Automobile trailer coupling.
- Buffer-coupling.
- Car-coupling.
- Carriage-coupling.
- Casing-coupling.
- Compression-coupling.
- Conduit-rod coupling.
- Drill-rod coupling.
- Driving-coupling.
- Electric coupling.
- Engine-coupling.
- Everener-coupling.
- Fire-hose coupling.
- Flexible coupling.
- Flume-joint coupling.
- Frictional coupling.
- Hose-coupling.
- Hose-pipe coupling.
- Hose-repair coupling.
- Hydraulic coupling.
- Lightning-rod coupling.
- Pin-coupling.
- Pipe-coupling.
- Coupling—Continued.
- Pipe automatic coupling.
- Pipe, hose, shaft, &c., coupling.
- Pitman-coupling.
- Pneumatic coupling.
- Pocket-coupling.
- Pole-coupling.
- Pump-rod coupling.
- Railway-coupling.
- Railway-rail coupling.
- Railway-vehicle coupling.
- Reversible coupling.
- Ring-coupling.
- Rod-coupling.
- Safety-coupling.
- Coupling. W. C. Banks. No. 1,157,921; Oct. 26; Gaz. vol. 219; p. 1025.
- Coupling. G. N. Barrie and A. P. Hanscom. No. 1,149,491; Aug. 10; Gaz. vol. 217; p. 459.
- Coupling. C. W. Beaufort. No. 1,138,072; May 4; Gaz. vol. 214; p. 124.
- Coupling. C. Boyd. No. 1,134,179; Apr. 6; Gaz. vol. 213; p. 35.
- Coupling. F. Bushey. No. 1,131,820; Mar. 16; Gaz. vol. 212; p. 758.
- Coupling. D. A. Cook. No. 1,125,067; Jan. 19; Gaz. vol. 210; p. 735.
- Coupling. T. J. Costello. No. 1,145,562; July 6; Gaz. vol. 216; p. 205.
- Coupling. J. K. Dalton. No. 1,160,050; Nov. 9; Gaz. vol. 220; p. 608.
- Coupling. J. B. Elliott. No. 1,138,946; May 11; Gaz. vol. 214; p. 468.
- Coupling. W. T. Gerstner. No. 1,126,002; Jan. 26; Gaz. vol. 210; p. 1101.
- Coupling. E. E. Gold. No. 1,145,363; July 6; Gaz. vol. 216; p. 135.
- Coupling. L. W. Greve. No. 1,130,726; Mar. 9; Gaz. vol. 212; p. 343.
- Coupling. R. E. L. Janney. No. 1,130,824; Mar. 9; Gaz. vol. 212; p. 376.
- Coupling. R. E. Janney and E. P. Kinne. No. 1,131,139; Mar. 9; Gaz. vol. 212; p. 484.
- Coupling. P. F. La Gree. No. 1,157,401; Oct. 19; Gaz. vol. 219; p. 782.
- Coupling. T. J. Madigan. No. 1,126,056; Jan. 26; Gaz. vol. 210; p. 1120.
- Coupling. I. H. Milliken. No. 1,148,039; July 27; Gaz. vol. 216; p. 1140.
- Coupling. G. O. Parker. No. 1,158,714; Nov. 2; Gaz. vol. 220; p. 106.
- Coupling. E. A. Rundlöf. No. 1,144,067; June 22; Gaz. vol. 215; p. 1142.
- Coupling. A. Schmidt. No. 1,160,534; Nov. 16; Gaz. vol. 220; p. 832.
- Coupling. A. C. Spencer. No. 1,141,281; June 1; Gaz. vol. 215; p. 68.
- Coupling. L. F. Tabbert. No. 1,162,527; Nov. 30; Gaz. vol. 220; p. 1624.
- Coupling. C. A. Tilly. No. 1,154,944; Sept. 28; Gaz. vol. 218; p. 1001.
- Coupling. W. S. Tyler. No. 1,162,417; Nov. 30; Gaz. vol. 220; p. 1585.
- Coupling. J. Weiss. No. 1,123,445; Jan. 5; Gaz. vol. 210; p. 85.
- Coupling. J. Willison. No. 1,162,271; Nov. 30; Gaz. vol. 220; p. 1537.
- Coupling-applying apparatus. J. B. Thomas. No. 1,155,108; Sept. 28; Gaz. vol. 218; p. 1059.
- Coupling carrier and centering device. H. C. Buhoup. No. 1,129,547; Feb. 23; Gaz. vol. 211; p. 1134.
- Coupling-centering device. W. Kelso. No. 1,155,069; Sept. 28; Gaz. vol. 218; p. 1045.
- Coupling-centering device. E. P. Kinne. No. 1,165,678; Dec. 28; Gaz. vol. 221; p. 1154.
- Coupling-centralizing mechanism. H. C. Buhoup. No. 1,150,495; Aug. 17; Gaz. vol. 217; p. 881.
- Coupling-centralizing mechanism. W. Kelso. No. 1,164,194; Dec. 14; Gaz. vol. 221; p. 555.
- Coupling connection. A. E. Norris. No. 1,133,312; Mar. 30; Gaz. vol. 212; p. 1383.
- Coupling-controlling mechanism. I. H. Milliken. No. 1,154,040; Sept. 21; Gaz. vol. 218; p. 664.
- Coupling device. W. D. Himes. No. 1,144,128; June 22; Gaz. vol. 215; p. 1165.
- Coupling device. H. Schmidt. No. 1,165,541; Dec. 28; Gaz. vol. 221; p. 1104.
- Coupling device. D. H. Wingerd. No. 1,143,873; June 22; Gaz. vol. 215; p. 1074.
- Coupling device. F. Winkler. No. 1,163,298; Dec. 7; Gaz. vol. 221; p. 197.
- Coupling device, Automatic. W. Rachals. No. 1,155,006; Sept. 28; Gaz. vol. 218; p. 1022.
- Coupling draw-bar. A. C. McCord. No. 1,165,190; Dec. 21; Gaz. vol. 221; p. 945.
- Coupling-head, Fluid-pressure. H. S. Kimmel. No. 1,154,029; Sept. 21; Gaz. vol. 218; p. 660.
- Coupling-knuckle reinforcement. R. E. L. Janney and E. P. Kinne. No. 1,135,528; Apr. 13; Gaz. vol. 213; p. 554.
- Shaft-coupling.
- Socket-coupling.
- Spring-coupling.
- Thill-coupling.
- Tongue-coupling.
- Train-line coupling.
- Truck-coupling.
- Truss-coupling.
- Tubing-coupling.
- Universal coupling.
- Valve-coupling.
- Vehicle-coupling.
- Well-coupling.
- Yoke-coupling.

Alphabetical list of inventions—Continued.

- Coupling-link. W. T. Durham. No. 1,124,877; Jan. 12; Gaz. vol. 210; p. 633.
- Coupling-lock. E. P. Kinne. No. 1,140,166; May 18; Gaz. vol. 214; p. 935.
- Coupling, Making a male member of a union-. H. G. Carlson. No. 1,150,249; Aug. 17; Gaz. vol. 217; p. 797.
- Coupling-operating mechanism. I. H. Milliken. No. 1,154,039; Sept. 21; Gaz. vol. 218; p. 664.
- Coupling-release rigging. H. C. Buhoup. No. 1,162,333; Nov. 30; Gaz. vol. 220; p. 1557.
- Coupling-releasing rigging. W. Kelso. No. 1,148,023; July 27; Gaz. vol. 216; p. 1134.
- Coupling shank and yoke connection. W. E. Coffin. (Re-issue.) No. 13,889; Mar. 9; Gaz. vol. 212; p. 663.
- Coupling shank and yoke connection. W. E. Coffin. No. 1,157,084; Oct. 19; Gaz. vol. 219; p. 669.
- Coupling shank and yoke connection. E. H. Schmidt. No. 1,132,980; Mar. 23; Gaz. vol. 212; p. 1230.
- Coupling shank and yoke connection. E. H. Schmidt. No. 1,144,384; June 29; Gaz. vol. 215; p. 1283.
- Coupling-washer, Self-retaining. R. Mueller. No. 1,157,574; Oct. 19; Gaz. vol. 219; p. 840.
- Couplings, Draft-rigging for pilot-. E. P. Kinne. No. 1,157,874; Oct. 26; Gaz. vol. 219; p. 1008.
- Cover. H. L. Bruggemann. No. 1,125,956; Jan. 26; Gaz. vol. 210; p. 1084.
- Cover. A. Pittelkow. No. 1,148,620; Aug. 3; Gaz. vol. 217; p. 50.
- Cover, Container-. W. Plagg. No. 1,131,080; Mar. 9; Gaz. vol. 212; p. 464.
- Cover-fastening device. T. E. Pope. No. 1,149,464; Aug. 10; Gaz. vol. 217; p. 451.
- Cover for boxed goods, Supplemental. J. F. Flaherty and C. Gerlach. No. 1,144,326; June 22; Gaz. vol. 215; p. 1234.
- Cover for containers, Removable. F. R. Woods. No. 1,136,747; Apr. 20; Gaz. vol. 213; p. 1027.
- Cover for dictating-machines and the like, Foldable. M. Kellogg. No. 1,144,417; June 29; Gaz. vol. 215; p. 1294.
- Cover-locking device, Vessel-. M. Pearl. No. 1,123,918; Jan. 5; Gaz. vol. 210; p. 246.
- Cover-opener. F. J. Leonard. No. 1,142,446; June 8; Gaz. vol. 215; p. 517.
- Cover or awning, Foldable. T. C. and F. M. Hocking. No. 1,150,764; Aug. 17; Gaz. vol. 217; p. 973.
- Cover-plate and locking device therefor. J. Anderson. No. 1,130,238; Mar. 2; Gaz. vol. 212; p. 137.
- Cover, Receptacle-. W. A. Cottrell. No. 1,124,395; Jan. 12; Gaz. vol. 210; p. 459.
- Cover-receptacle. D. A. Ripley. No. 1,146,816; July 20; Gaz. vol. 216; p. 685.
- Cover-releasing device. G. G. Schuele. No. 1,160,204; Nov. 16; Gaz. vol. 220; p. 716.
- Cover, Sanitary lid-. W. T. Brown. No. 1,133,091; Mar. 23; Gaz. vol. 212; p. 1270.
- Cover-shifting mechanism. F. Merian. No. 1,141,573; June 1; Gaz. vol. 215; p. 174.
- Cover, Transparent. C. H. Myers. No. 1,126,257; Jan. 26; Gaz. vol. 210; p. 1195.
- Cover, Transparent. C. H. Myers. No. 1,126,258; Jan. 26; Gaz. vol. 210; p. 1195.
- Covering for bread or the like. M. and S. Blogg. No. 1,149,713; Aug. 10; Gaz. vol. 217; p. 541.
- Covering or armor, Protective. O. P. Houben. No. 1,164,521; Dec. 14; Gaz. vol. 221; p. 671.
- Covering surfaces. J. P. Boulton. No. 1,138,928; May 11; Gaz. vol. 214; p. 461.
- Covering-wheel. L. E. Roby. No. 1,150,537; Aug. 17; Gaz. vol. 217; p. 895.
- Cow-tail holder. N. P. Bengston. No. 1,136,395; Apr. 20; Gaz. vol. 213; p. 902.
- Cow-tail holder. J. L. Kunkle. No. 1,131,527; Mar. 9; Gaz. vol. 212; p. 619.
- Cow-tail holder. E. Quick. No. 1,140,186; May 18; Gaz. vol. 214; p. 942.
- Cow-tail holder. M. E. Rollins. No. 1,144,727; June 29; Gaz. vol. 215; p. 1400.
- Cow-tail holder. J. Zenke. No. 1,141,746; June 1; Gaz. vol. 215; p. 232.
- Cow's-tail holder. R. McGahey. No. 1,164,373; Dec. 14; Gaz. vol. 221; p. 619.
- Crack-filling machine. J. F. Goetz. No. 1,154,305; Sept. 21; Gaz. vol. 218; p. 755.
- Cracker-cutting machines, Mechanical movement for. D. K. Allison and B. D. Pinkney. No. 1,165,378; Dec. 28; Gaz. vol. 221; p. 1048.
- Cracker or food, Beet-root. W. L. Breyfogle. No. 1,161,450; Nov. 23; Gaz. vol. 220; p. 1205.
- Cracker-pipe for saturating apparatus. F. Tschudy. No. 1,135,472; Apr. 13; Gaz. vol. 213; p. 535.
- Cracking-off machine. F. W. Bartlett. No. 1,135,652; Apr. 13; Gaz. vol. 213; p. 600.
- Cradle-bit. F. H. Troville. No. 1,152,770; Sept. 7; Gaz. vol. 218; p. 142.
- Cradle, Folding. L. Rakowsky. No. 1,138,247; May 4; Gaz. vol. 214; p. 183.
- Cradle, Swinging. P. Christensen. No. 1,133,429; Mar. 30; Gaz. vol. 212; p. 1426.
- Crane. R. Kimmel. No. 1,147,176; July 20; Gaz. vol. 216; p. 810.
- Crane. G. A. True. No. 1,144,972; June 29; Gaz. vol. 215; p. 1483.
- Crane and other hoisting apparatus. A. Wilson and J. Robson. No. 1,139,944; May 18; Gaz. vol. 214; p. 855.
- Crane, Automatic train-order. D. A. Pool. No. 1,141,411; June 1; Gaz. vol. 215; p. 117.
- Crane, Autotractor-. P. E. Holt. No. 1,159,841; Nov. 9; Gaz. vol. 220; p. 537.
- Crane-brake. L. H. Lindsey. No. 1,128,797; Feb. 16; Gaz. vol. 211; p. 833.
- Crane, Pontoon-. F. E. Hulett and R. E. Sheal. No. 1,161,679; Nov. 23; Gaz. vol. 220; p. 1283.
- Crane, Pontoon-. F. E. Hulett and R. E. Sheal. No. 1,161,680; Nov. 23; Gaz. vol. 220; p. 1283.
- Crane, Portable. T. W. Shelton. No. 1,161,258; Nov. 23; Gaz. vol. 220; p. 1137.
- Crane, Sluing. F. Smulders. No. 1,139,915; May 18; Gaz. vol. 214; p. 846.
- Crane, Traveling. H. Shoemaker. No. 1,140,076; May 18; Gaz. vol. 214; p. 903.
- Crane-trolley. E. H. Kendall. No. 1,148,323; July 27; Gaz. vol. 216; p. 1243.
- Cranes, Electric control-gear for automatic grab-. K. Brüll. No. 1,134,370; Apr. 6; Gaz. vol. 213; p. 105.
- Cranes, Grab-bucket-operating mechanism for. H. Sawyer. No. 1,157,962; Oct. 26; Gaz. vol. 219; p. 1040.
- Cranes, Yoke for wrecking-. J. W. Riley. No. 1,126,282; Jan. 26; Gaz. vol. 210; p. 1202.
- Crank, Adjustable. M. Leitch and S. H. Hall. No. 1,159,054; Nov. 2; Gaz. vol. 220; p. 222.
- Crank and lever. L. D. Keiswetter and W. S. Roberts. No. 1,145,865; July 6; Gaz. vol. 216; p. 311.
- Crank-casing. H. W. Bolens. No. 1,143,093; June 15; Gaz. vol. 215; p. 782.
- Crank-handle. A. J. Broling. No. 1,150,659; Aug. 17; Gaz. vol. 217; p. 938.
- Crank-handle. A. O. Curry. No. 1,146,054; July 13; Gaz. vol. 216; p. 398.
- Crank-movement. F. N. Livingston. No. 1,128,885; Feb. 16; Gaz. vol. 211; p. 865.
- Crank-pin connection. R. Hartwig. No. 1,136,524; Apr. 20; Gaz. vol. 213; p. 948.
- Crank-releasing mechanism, Automatic. M. C. Levine. No. 1,128,012; Feb. 9; Gaz. vol. 211; p. 514.
- Crank-shaft. F. W. Spacke, D. T. Brownlee, and W. Spacke. No. 1,136,376; Apr. 20; Gaz. vol. 213; p. 895.
- Crank-shaft, Balanced. S. I. Fekete. No. 1,165,861; Dec. 28; Gaz. vol. 221; p. 1216.
- Crank-shaft casing, Reinforcing-nut-bar. E. Stage. No. 1,146,533; July 13; Gaz. vol. 216; p. 567.
- Crank-shaft connection. W. Kielling. No. 1,159,231; Nov. 2; Gaz. vol. 220; p. 286.
- Crank support, Starting-. A. J. Robinson. No. 1,161,248; Nov. 23; Gaz. vol. 220; p. 1133.
- Crank-wheel. F. Clark. No. 1,149,029; Aug. 3; Gaz. vol. 217; p. 193.
- Cranking device. J. Dunner. No. 1,143,517; June 15; Gaz. vol. 215; p. 926.
- Cranking device. D. Stewart. No. 1,134,974; Apr. 6; Gaz. vol. 213; p. 317.
- Cranking device. J. G. Welsh. No. 1,151,842; Aug. 31; Gaz. vol. 217; p. 1447.
- Crate. R. F. Hamilton and D. Lepsech. No. 1,148,017; July 27; Gaz. vol. 216; p. 1131.
- Crate. J. Holbrook. No. 1,156,230; Oct. 12; Gaz. vol. 219; p. 338.
- Crate. C. J. Rothermel. No. 1,123,804; Jan. 5; Gaz. vol. 210; p. 207.
- Crate and adapter therefor, Bottle-. G. F. Behringer. No. 1,143,166; June 15; Gaz. vol. 215; p. 805.
- Crate and drier, Seed-corn. O. C. Vold. No. 1,166,283; Dec. 28; Gaz. vol. 221; p. 1370.
- Crate, Banana-. W. K. Bayless. No. 1,125,255; Jan. 19; Gaz. vol. 210; p. 803.
- Crate, Banana-. J. Diaferia. No. 1,155,406; Oct. 5; Gaz. vol. 219; p. 28.
- Crate, Bottle-. L. J. Berkley. No. 1,154,906; Sept. 28; Gaz. vol. 218; p. 988.
- Crate, Bottle-. G. Klenk. No. 1,139,535; May 18; Gaz. vol. 214; p. 711.
- Crate, Collapsible. A. J. and W. H. Bodker. No. 1,123,227; Jan. 5; Gaz. vol. 210; p. 9.
- Crate, Collapsible. C. D. Campbell. No. 1,143,888; June 22; Gaz. vol. 215; p. 1079.
- Crate, Collapsible. W. I. Claiborn. No. 1,158,984; Nov. 2; Gaz. vol. 220; p. 199.
- Crate, Collapsible. S. Craig. No. 1,159,902; Nov. 9; Gaz. vol. 220; p. 557.
- Crate, Collapsible. F. A. Focks. No. 1,156,221; Oct. 12; Gaz. vol. 219; p. 335.
- Crate, Collapsible. H. B. Leary. No. 1,133,648; Mar. 30; Gaz. vol. 212; p. 1505.
- Crate, Collapsible. C. A. Master and O. T. Wolnitzek. No. 1,133,166; Mar. 23; Gaz. vol. 212; p. 1297.
- Crate, Collapsible. F. H. McLain. No. 1,135,598; Apr. 13; Gaz. vol. 213; p. 579.
- Crate, Collapsible. P. Potucek. No. 1,161,336; Nov. 23; Gaz. vol. 220; p. 1163.
- Crate, Collapsible egg-. F. Hubbard. No. 1,143,197; June 15; Gaz. vol. 215; p. 817.
- Crate, Collapsible egg-. W. M. Way. No. 1,127,328; Feb. 2; Gaz. vol. 211; p. 231.

- Crate, Collapsible poultry-. C. Highers. No. 1,129,676; Feb. 23; Gaz. vol. 211; p. 1177.
- Crate-cover fastener. J. S. Snodgrass and J. B. Carter. No. 1,151,057; Aug. 24; Gaz. vol. 217; p. 1132.
- Crate, Delivery-. H. N. Backus. No. 1,152,366; Aug. 31; Gaz. vol. 217; p. 1629.
- Crate, Egg-. E. Forsyth. No. 1,148,475; July 27; Gaz. vol. 216; p. 1294.
- Crate, Egg-. T. H. Gibbon. No. 1,139,669; May 18; Gaz. vol. 214; p. 759.
- Crate, Egg-. E. L. Heninger and D. Reed, Jr. No. 1,138,475; May 4; Gaz. vol. 214; p. 265.
- Crate, Egg-. J. A. Jones. No. 1,153,495; Sept. 14; Gaz. vol. 218; p. 439.
- Crate, Egg-. R. E. Miller. No. 1,143,913; June 22; Gaz. vol. 215; p. 1087.
- Crate, Egg-. W. Wolz and J. V. Paxson. No. 1,141,167; June 1; Gaz. vol. 215; p. 27.
- Crate, Egg-shipping. S. E. Gainer. No. 1,133,849; Mar. 30; Gaz. vol. 212; p. 1577.
- Crate, Extension-. W. M. Way. No. 1,135,231; Apr. 13; Gaz. vol. 213; p. 450.
- Crate, Foldable. E. T. Bond. No. 1,127,582; Feb. 9; Gaz. vol. 211; p. 360.
- Crate, Folding. A. F. Amman. No. 1,123,461; Jan. 5; Gaz. vol. 210; p. 91.
- Crate, Folding. R. M. Crouse. No. 1,155,404; Oct. 5; Gaz. vol. 219; p. 28.
- Crate, Folding. W. Gillingham. No. 1,143,532; June 15; Gaz. vol. 215; p. 932.
- Crate, Folding. V. W. Goens. No. 1,149,193; Aug. 10; Gaz. vol. 217; p. 353.
- Crate, Folding. C. F. Miesen. No. 1,127,909; Feb. 9; Gaz. vol. 211; p. 478.
- Crate, Folding. W. H. Nauman. No. 1,141,574; June 1; Gaz. vol. 215; p. 174.
- Crate, Folding egg-. F. W. Robertson. No. 1,134,557; Apr. 6; Gaz. vol. 213; p. 173.
- Crate, Folding egg-. A. D. Wallen. No. 1,166,097; Dec. 28; Gaz. vol. 221; p. 1299.
- Crate, Folding shipping-. W. M. Dight. No. 1,132,000; Mar. 16; Gaz. vol. 212; p. 822.
- Crate, Folding shipping-. J. O. Engle. No. 1,138,096; May 4; Gaz. vol. 214; p. 132.
- Crate, Folding shipping-. G. W. Pyle. No. 1,129,011; Feb. 16; Gaz. vol. 211; p. 911.
- Crate, Fruit-. E. B. Williams. No. 1,160,681; Nov. 16; Gaz. vol. 220; p. 887.
- Crate, Hog-. E. G. and F. D. Miller. No. 1,147,879; July 27; Gaz. vol. 216; p. 1083.
- Crate, Knockdown. O. B. Andrews. No. 1,154,831; Sept. 28; Gaz. vol. 218; p. 964.
- Crate-lock. H. N. Backus. No. 1,133,254; Mar. 30; Gaz. vol. 212; p. 1364.
- Crate, Metal folding. W. P. Griffith. No. 1,164,502; Dec. 14; Gaz. vol. 221; p. 663.
- Crate, Metallic. J. R. Freeze. No. 1,146,149; July 13; Gaz. vol. 216; p. 431.
- Crate or basket. C. A. Wilson. No. 1,161,755; Nov. 23; Gaz. vol. 220; p. 1308.
- Crate or box. O. A. Lane, D. Guice, and H. P. Dohrmeier. No. 1,137,407; Apr. 27; Gaz. vol. 213; p. 1303.
- Crate or box. G. F. Turner. No. 1,135,866; Apr. 13; Gaz. vol. 213; p. 675.
- Crate or box, Folding. D. Guice, H. P. Dohrmeier, and O. A. Lane. No. 1,129,088; Feb. 23; Gaz. vol. 211; p. 973.
- Crate or box, Folding. A. Von Schluembach. No. 1,138,814; May 11; Gaz. vol. 214; p. 422.
- Crate or box, Metal. R. F. Hamilton. No. 1,146,327; July 13; Gaz. vol. 216; p. 493.
- Crate or case, Bottle. H. D. Bokop. No. 1,132,157; Mar. 16; Gaz. vol. 212; p. 879.
- Crate or case for eggs or the like, Shipping. R. O. Hammond. No. 1,155,234; Sept. 28; Gaz. vol. 218; p. 1100.
- Crate, Poultry-. W. R. White. No. 1,138,918; May 11; Gaz. vol. 214; p. 458.
- Crate, Revolvable egg-. O. Opsjon. No. 1,134,481; Apr. 6; Gaz. vol. 213; p. 145.
- Crate, Shipping-. C. A. Agar. No. 1,140,231; May 18; Gaz. vol. 214; p. 956.
- Crate, Shipping-. J. M. Alderfer. No. 1,135,485; Apr. 13; Gaz. vol. 213; p. 539.
- Crate, Shipping-. G. A. Colby. No. 1,157,509; Oct. 19; Gaz. vol. 219; p. 820.
- Crate, Shipping-. J. Kellenberger. No. 1,129,687; Feb. 23; Gaz. vol. 211; p. 1180.
- Crate, Shipping-. F. Marquardt. No. 1,136,027; Apr. 20; Gaz. vol. 213; p. 772.
- Crate, Shipping-. F. H. McLain. No. 1,135,599; Apr. 13; Gaz. vol. 213; p. 580.
- Crate, Shipping-. W. J. Schreiner. No. 1,155,105; Sept. 28; Gaz. vol. 218; p. 1058.
- Crate, Shipping-. A. H. Thoms. No. 1,132,637; Mar. 23; Gaz. vol. 212; p. 1104.
- Crate, Shipping-. F. T. Wing and J. D. Stires. No. 1,149,011; Aug. 3; Gaz. vol. 217; p. 187.
- Crate, Ventilated produce-. F. M. Burnham and C. A. Myers. No. 1,142,300; June 8; Gaz. vol. 215; p. 463.
- Crates, boxes, &c., Fastener for. G. C. D. Miller. No. 1,153,941; Sept. 21; Gaz. vol. 218; p. 630.
- Crayon and lead holder, Magazine. H. M. Fuller. No. 1,153,055; Sept. 7; Gaz. vol. 218; p. 245.
- Crayon composition. H. W. Smith. No. 1,131,432; Mar. 9; Gaz. vol. 212; p. 586.
- Crayon-cutter. H. W. Smith. No. 1,131,431; Mar. 9; Gaz. vol. 212; p. 585.
- Crayon-holder. C. C. Fleming. No. 1,151,933; Aug. 31; Gaz. vol. 217; p. 1477.
- Crayon-making machine. F. M. Blanchard. No. 1,123,667; Jan. 5; Gaz. vol. 210; p. 161.
- Crayons, Making. H. W. Smith. No. 1,131,433; Mar. 9; Gaz. vol. 212; p. 586.
- Cream, milk, &c., cooler. J. O'Connell and H. H. Kerr. No. 1,161,513; Nov. 23; Gaz. vol. 220; p. 1226.
- Cream-separator. O. M. Page. No. 1,150,533; Aug. 17; Gaz. vol. 217; p. 893.
- Cream-separator. F. D. Vickers. No. 1,125,776; Jan. 19; Gaz. vol. 210; p. 989.
- Cream-separator, Centrifugal. W. E. Callane. No. 1,136,654; Apr. 20; Gaz. vol. 213; p. 994.
- Cream-separators, Milk-feed regulator for. P. L. Kimball. No. 1,146,579; July 13; Gaz. vol. 216; p. 584.
- Cream-separators, Speed-indicator for. W. O. Nelson. No. 1,162,707; Nov. 30; Gaz. vol. 220; p. 1682.
- Creases, Device for retaining. K. Link. No. 1,147,520; July 20; Gaz. vol. 216; p. 930.
- Creasing-machine. J. S. Hansen. No. 1,126,758; Feb. 2; Gaz. vol. 211; p. 33.
- Credit-marking system. J. J. Leidigh. No. 1,145,152; July 6; Gaz. vol. 216; p. 62.
- Credit-register. C. P. Byrnes and J. B. Heller. No. 1,145,552; July 6; Gaz. vol. 216; p. 202.
- Credit-register. J. J. Snyder. No. 1,164,883; Dec. 21; Gaz. vol. 221; p. 837.
- Creels, Skewer-support for. C. A. Allen. No. 1,152,388; Sept. 7; Gaz. vol. 218; p. 3.
- Creeper. F. N. Bierce. No. 1,128,746; Feb. 16; Gaz. vol. 211; p. 816.
- Cremation-furnace. W. Cheetham. No. 1,147,310; July 20; Gaz. vol. 216; p. 855.
- Crematory. A. K. Fischer. No. 1,156,398; Oct. 12; Gaz. vol. 219; p. 399.
- Crematory, Portable. E. D. Lewis. No. 1,153,871; Sept. 14; Gaz. vol. 218; p. 572.
- Crescendo device. B. R. Van Valkenburg. No. 1,126,137; Jan. 26; Gaz. vol. 210; p. 1151.
- Crib. B. Brzozowski. No. 1,132,432; Mar. 16; Gaz. vol. 212; p. 980.
- Crib. E. S. Kolb. No. 1,158,507; Nov. 2; Gaz. vol. 220; p. 34.
- Crib. M. Lowy. No. 1,143,292; June 15; Gaz. vol. 215; p. 850.
- Crib. B. McIntosh. No. 1,135,122; Apr. 13; Gaz. vol. 213; p. 415.
- Crib and settee, Combined. D. Wasserman. No. 1,164,243; Dec. 14; Gaz. vol. 221; p. 571.
- Crib, Baby-. H. H. Bugele. No. 1,138,451; May 4; Gaz. vol. 214; p. 257.
- Crib, Child's. R. Bradshaw. No. 1,140,439; May 25; Gaz. vol. 214; p. 1064.
- Crib, Folding. A. C. Hummel. No. 1,135,022; Apr. 13; Gaz. vol. 213; p. 380.
- Crib-gates and the like, Catch device for. L. Appugliese. No. 1,143,881; June 22; Gaz. vol. 215; p. 1077.
- Crib joint, Sliding-side. W. B. Foster. No. 1,151,775; Aug. 31; Gaz. vol. 217; p. 1423.
- Crib, Knockdown. O. G. Esterbrook. No. 1,142,948; June 15; Gaz. vol. 215; p. 729.
- Cribs, Gravity-catch for sliding-side. W. B. Foster. No. 1,151,774; Aug. 31; Gaz. vol. 217; p. 1423.
- Crimping-machine. J. N. Humphreys. No. 1,149,520; Aug. 10; Gaz. vol. 217; p. 471.
- Crimping or corrugating machine. W. S. Lougee. No. 1,160,732; Nov. 16; Gaz. vol. 220; p. 904.
- Crimping or corrugating machine. W. S. Lougee and A. M. English. No. 1,129,355; Feb. 23; Gaz. vol. 211; p. 1066.
- Crochet-machines, Stitch-controller for. S. W. Avis. No. 1,125,437; Jan. 19; Gaz. vol. 210; p. 868.
- Crochet-needle. A. White. No. 1,131,621; Mar. 9; Gaz. vol. 212; p. 651.
- Crocheted article and producing the same. F. Mahnen and L. L. Van Nice. No. 1,139,989; May 18; Gaz. vol. 214; p. 871.
- Crockery-washing apparatus. H. M. Pearman. No. 1,143,858; June 22; Gaz. vol. 215; p. 1069.
- Cross. J. E. Rigall. No. 1,136,274; Apr. 20; Gaz. vol. 213; p. 857.
- Cross-head. R. W. Davis. No. 1,128,109; Feb. 9; Gaz. vol. 211; p. 547.
- Cross-head. G. L. Kollberg. No. 1,154,780; Sept. 28; Gaz. vol. 218; p. 946.
- Cross-head. K. Steinbecker. No. 1,158,328; Oct. 26; Gaz. vol. 219; p. 1168.
- Cross-head pin. S. M. Mosher and W. G. Wood. No. 1,131,073; Mar. 9; Gaz. vol. 212; p. 462.
- Cross protection device. W. J. Plogsted. No. 1,163,171; Dec. 7; Gaz. vol. 221; p. 153.
- Cross-tie. J. F. Carpenter. No. 1,138,080; May 4; Gaz. vol. 214; p. 127.
- Cross-tie. T. Davis. No. 1,141,444; June 1; Gaz. vol. 215; p. 128.

Alphabetical list of inventions—Continued.

- Cross-tie. C. Partington. No. 1,133,314; Mar. 30; Gaz. vol. 212; p. 1384.
- Cross-tie for switches, Reversible. J. J. Ross. No. 1,150,630; Aug. 17; Gaz. vol. 217; p. 928.
- Cross-tie, Steel cushion. J. Godfrey. No. 1,149,128; Aug. 3; Gaz. vol. 217; p. 225.
- Crossing, Continuous. L. L. Hartzler. No. 1,133,723; Mar. 30; Gaz. vol. 212; p. 1532.
- Crossing-gate, Automatic. A. Alary. No. 1,125,925; Jan. 26; Gaz. vol. 210; p. 1072.
- Crossing-gate, Automatic. C. I. Hall. No. 1,143,190; June 15; Gaz. vol. 215; p. 815.
- Crossing-gate, Automatic electric. J. Briggs. No. 1,134,584; Apr. 6; Gaz. vol. 213; p. 183.
- Crossing-signal. O. H. Whitman. No. 1,158,610; Nov. 2; Gaz. vol. 220; p. 71.
- Crossing-signal, Automatic. J. R. Crow. No. 1,151,665; Aug. 31; Gaz. vol. 217; p. 1385.
- Crossing-signal, Train-controlled electric recording. H. Wilkins. No. 1,155,535; Oct. 5; Gaz. vol. 219; p. 74.
- Crossover. S. P. Miller. No. 1,130,005; Mar. 2; Gaz. vol. 212; p. 58.
- Crow-hick. J. T. Ashton. No. 1,125,632; Jan. 19; Gaz. vol. 210; p. 936.
- Crowbar. F. O. Woodson. No. 1,164,155; Dec. 14; Gaz. vol. 221; p. 542.
- Crown-cleaning machine. E. H. Schaefer. No. 1,143,231; June 15; Gaz. vol. 215; p. 830.
- Crown-opener. E. Walker. No. 1,150,083; Aug. 17; Gaz. vol. 217; p. 735.
- Crown-post. E. J. Huff, Jr., and F. A. Johnston. No. 1,145,368; July 6; Gaz. vol. 216; p. 136.
- Crucible and like furnace. A. C. Ionides, Jr. No. 1,138,482; May 4; Gaz. vol. 214; p. 268.
- Crucible-furnace. E. Hallgren. No. 1,138,866; May 11; Gaz. vol. 214; p. 441.
- Crucible-furnace. F. M. Her. No. 1,129,983; Mar. 2; Gaz. vol. 212; p. 50.
- Crucible-lifting mechanism. T. B. Barr and F. G. Hoyer. No. 1,148,138; July 27; Gaz. vol. 216; p. 1177.
- Cruller-cutter. A. Verstraete. No. 1,140,219; May 18; Gaz. vol. 214; p. 952.
- Crumb-collecting device. L. Lelong and J. R. Millward. No. 1,143,840; June 22; Gaz. vol. 215; p. 1063.
- Crushed material, Method and apparatus for classifying. F. W. Huber. No. 1,146,624; July 13; Gaz. vol. 216; p. 598.
- Crusher. *See—*
- | | |
|--------------------|-----------------|
| Gyratory crusher. | Roll-crusher. |
| Ring-roll crusher. | Rotary crusher. |
| Rock-crusher. | Stone-crusher. |
- Crusher. E. P. Le Compte and R. Colvin. No. 1,135,824; Apr. 13; Gaz. vol. 213; p. 660.
- Crusher. W. H. Lieber. No. 1,149,146; Aug. 3; Gaz. vol. 217; p. 231.
- Crusher. C. S. Lincoln. No. 1,128,015; Feb. 9; Gaz. vol. 211; p. 515.
- Crusher. R. Linn. No. 1,166,403; Dec. 28; Gaz. vol. 221; p. 1413.
- Crusher. T. F. Philippi. No. 1,131,002; Mar. 9; Gaz. vol. 212; p. 437.
- Crusher. A. E. Smith and C. G. Simonds. No. 1,127,101; Feb. 2; Gaz. vol. 211; p. 154.
- Crusher. T. L. Smith. No. 1,145,929; July 13; Gaz. vol. 216; p. 353.
- Crusher. A. W. Warsen. No. 1,130,864; Mar. 9; Gaz. vol. 212; p. 390.
- Crusher. A. W. Warsen. No. 1,148,345; July 27; Gaz. vol. 216; p. 1250.
- Crusher-mantle. G. F. De Wein. No. 1,154,100; Sept. 21; Gaz. vol. 218; p. 685.
- Crusher-mantle. R. C. Newhouse. No. 1,151,119; Aug. 24; Gaz. vol. 217; p. 1153.
- Crusher-roll. B. W. Traylor. No. 1,162,892; Dec. 7; Gaz. vol. 221; p. 55.
- Crushing and pulverizing machine. J. E. Kennedy. No. 1,143,203; June 15; Gaz. vol. 215; p. 819.
- Crushing apparatus. J. Boero. No. 1,152,141; Aug. 31; Gaz. vol. 217; p. 1550.
- Crushing-mill. H. L. Kent. No. 1,150,864; Aug. 24; Gaz. vol. 217; p. 1067.
- Crushing-mill. J. D. Millar. No. 1,139,790; May 18; Gaz. vol. 214; p. 801.
- Crushing-mills, Bearing for rolls of. T. J. Sturtevant. No. 1,164,672; Dec. 21; Gaz. vol. 221; p. 763.
- Crushing or recrushing rocks, ores, &c., Apparatus for. M. T. Thompson. No. 1,132,047; Mar. 16; Gaz. vol. 212; p. 840.
- Crushing-rolls, Keying means for. C. G. Buchanan. No. 1,149,626; Aug. 10; Gaz. vol. 217; p. 512.
- Crustacean-trap. R. M. Franklin. No. 1,146,698; July 13; Gaz. vol. 216; p. 623.
- Crutch. J. C. Hover. No. 1,127,893; Feb. 9; Gaz. vol. 211; p. 473.
- Crutch. F. Kindermann. No. 1,137,008; Apr. 27; Gaz. vol. 213; p. 1157.
- Crutch. E. P. Le Compte and R. Colvin. No. 1,157,314; Oct. 19; Gaz. vol. 219; p. 751.
- Crutch, Adjustable. I. M. and C. Briscoe. No. 1,156,747; Oct. 12; Gaz. vol. 219; p. 521.
- Crutch and furniture tip. F. G. Town. No. 1,133,514; Mar. 30; Gaz. vol. 212; p. 1456.
- Crutch and the like. T. Care. No. 1,164,608; Dec. 14; Gaz. vol. 221; p. 699.
- Crutch attachment. W. G. Restorff and M. M. Lile. No. 1,132,119; Mar. 16; Gaz. vol. 212; p. 865.
- Crutches and canes, Combination tip for. S. E. Louden. No. 1,158,943; Nov. 2; Gaz. vol. 220; p. 187.
- Crypt. J. H. Stewart. No. 1,148,200; July 27; Gaz. vol. 216; p. 1198.
- Cryptograph. B. M. Des Jardins. No. 1,138,851; May 11; Gaz. vol. 214; p. 436.
- Cryptographic apparatus. R. Guzmán M. No. 1,152,808; Sept. 7; Gaz. vol. 218; p. 157.
- Crystal detectors, Holder for. J. J. Ghegan. No. 1,162,765; Dec. 7; Gaz. vol. 221; p. 11.
- Cue and game-indicator, Combined. J. Thomson. No. 1,159,133; Nov. 2; Gaz. vol. 220; p. 249.
- Cue-chalker. L. Warden. No. 1,129,768; Feb. 23; Gaz. vol. 211; p. 1207.
- Cue-chalker, Automatic. L. L. Landis. No. 1,160,988; Nov. 16; Gaz. vol. 220; p. 994.
- Cue, Game-. J. M. Robinette. No. 1,152,908; Sept. 7; Gaz. vol. 218; p. 194.
- Cue-guide. J. S. James. No. 1,149,834; Aug. 10; Gaz. vol. 217; p. 585.
- Cue-rack and the like. F. C. Hobbs. No. 1,141,060; May 25; Gaz. vol. 214; p. 1280.
- Cue-tip. E. W. Womack. No. 1,134,796; Apr. 6; Gaz. vol. 213; p. 260.
- Cue-tip clamp. H. Broberg. No. 1,131,111; Mar. 9; Gaz. vol. 212; p. 475.
- Cuff. G. P. Helmers. No. 1,143,626; June 22; Gaz. vol. 215; p. 990.
- Cuff. B. S. Nichols. No. 1,161,511; Nov. 23; Gaz. vol. 220; p. 1226.
- Cuff-fastener. C. Holl. No. 1,163,148; Dec. 7; Gaz. vol. 221; p. 144.
- Cuff, Folding. C. W. T. Davies. No. 1,141,942; June 8; Gaz. vol. 215; p. 337.
- Cuff-holder. P. T. Moller. No. 1,163,943; Dec. 14; Gaz. vol. 221; p. 469.
- Cuff-press. W. Bartholomew. No. 1,151,239; Aug. 24; Gaz. vol. 217; p. 1195.
- Culinary beater. E. Baltzley. No. 1,165,307; Dec. 21; Gaz. vol. 221; p. 984.
- Culinary cleaner. J. Helstrom. No. 1,127,244; Feb. 2; Gaz. vol. 211; p. 204.
- Culinary implement. M. R. Crowe. No. 1,164,785; Dec. 21; Gaz. vol. 221; p. 803.
- Culinary implement. J. Herboldt. No. 1,127,620; Feb. 9; Gaz. vol. 211; p. 373.
- Culinary timing apparatus. A. Tuerk. No. 1,153,466; Sept. 14; Gaz. vol. 218; p. 429.
- Culinary utensil. A. D. Elzy. No. 1,134,376; Apr. 6; Gaz. vol. 213; p. 107.
- Culinary utensil. M. A. Taylor. No. 1,148,129; July 27; Gaz. vol. 216; p. 1174.
- Culinary vessel. C. S. Miller. No. 1,126,821; Feb. 2; Gaz. vol. 211; p. 56.
- Culinary-vessel handle. L. D. Cahn. No. 1,155,792; Oct. 5; Gaz. vol. 219; p. 163.
- Culm-burning furnace. J. S. S. Fulton. No. 1,130,389; Mar. 2; Gaz. vol. 212; p. 190.
- Cultivating-tool. J. B. Johnson. No. 1,134,538; Apr. 6; Gaz. vol. 213; p. 165.
- Cultivating tool, Soil-. M. Strom and E. Hoglund. No. 1,155,289; Sept. 28; Gaz. vol. 218; p. 1117.
- Cultivator. C. D. Atkinson. No. 1,162,544; Nov. 30; Gaz. vol. 220; p. 1629.
- Cultivator. J. B. Bartholomew. No. 1,138,925; May 11; Gaz. vol. 214; p. 460.
- Cultivator. W. L. Beall. No. 1,143,248; June 15; Gaz. vol. 215; p. 836.
- Cultivator. W. L. Beall. No. 1,154,084; Sept. 21; Gaz. vol. 218; p. 680.
- Cultivator. J. H. Berry. No. 1,135,756; Apr. 13; Gaz. vol. 213; p. 635.
- Cultivator. A. Bowdish. No. 1,131,110; Mar. 9; Gaz. vol. 212; p. 474.
- Cultivator. E. J. Brady. No. 1,124,845; Jan. 12; Gaz. vol. 210; p. 622.
- Cultivator. F. Braune. No. 1,154,841; Sept. 28; Gaz. vol. 218; p. 966.
- Cultivator. C. C. Carpenter. No. 1,130,887; Mar. 9; Gaz. vol. 212; p. 399.
- Cultivator. R. R. Colclough. No. 1,158,788; Nov. 2; Gaz. vol. 220; p. 133.
- Cultivator. F. E. Davis. No. 1,138,635; May 11; Gaz. vol. 214; p. 357.
- Cultivator. F. L. Dewey. No. 1,161,114; Nov. 23; Gaz. vol. 220; p. 1083.
- Cultivator. J. E. Evans. No. 1,140,970; May 25; Gaz. vol. 214; p. 1251.
- Cultivator. I. T. Ferguson. No. 1,143,524; June 15; Gaz. vol. 215; p. 929.
- Cultivator. J. L. Graham. No. 1,132,842; Mar. 23; Gaz. vol. 212; p. 1180.
- Cultivator. W. P. Harper. No. 1,139,118; May 11; Gaz. vol. 214; p. 531.
- Cultivator. E. M. Heylman. No. 1,155,569; Oct. 5; Gaz. vol. 219; p. 85.

- Cultivator. S. J. Higgins. No. 1,133,140; Mar. 23; Gaz. vol. 212; p. 1287.
- Cultivator. E. C. Hodges. No. 1,137,621; Apr. 27; Gaz. vol. 213; p. 1374.
- Cultivator. J. T. Holland. No. 1,161,674; Nov. 23; Gaz. vol. 220; p. 1281.
- Cultivator. C. Johnson. No. 1,162,068; Nov. 30; Gaz. vol. 220; p. 1465.
- Cultivator. J. B. Johnson. No. 1,144,039; June 22; Gaz. vol. 215; p. 1134.
- Cultivator. I. K. Klassen. No. 1,137,331; Apr. 27; Gaz. vol. 213; p. 1274.
- Cultivator. H. J. Kuhlman. No. 1,123,761; Jan. 5; Gaz. vol. 210; p. 193.
- Cultivator. W. F. Lamp. No. 1,166,135; Dec. 28; Gaz. vol. 221; p. 1315.
- Cultivator. D. J. Lamprell and F. Cook. No. 1,141,804; June 1; Gaz. vol. 215; p. 252.
- Cultivator. V. Linderblad. No. 1,135,305; Apr. 13; Gaz. vol. 213; p. 477.
- Cultivator. E. Melton. No. 1,155,833; Oct. 5; Gaz. vol. 219; p. 178.
- Cultivator. C. W. Michael. No. 1,141,135; June 1; Gaz. vol. 215; p. 15.
- Cultivator. C. H. Moore. No. 1,128,486; Feb. 16; Gaz. vol. 211; p. 727.
- Cultivator. W. P. Morrow. No. 1,130,924; Mar. 9; Gaz. vol. 212; p. 411.
- Cultivator. H. Petersen. No. 1,161,964; Nov. 30; Gaz. vol. 220; p. 1430.
- Cultivator. C. H. Pidgeon and J. R. M. Boyd. No. 1,159,532; Nov. 9; Gaz. vol. 220; p. 423.
- Cultivator. S. D. Poole. No. 1,140,767; May 25; Gaz. vol. 214; p. 1176.
- Cultivator. J. R. Porter. No. 1,153,952; Sept. 21; Gaz. vol. 218; p. 634.
- Cultivator. W. M. Reynolds. No. 1,131,957; Mar. 16; Gaz. vol. 212; p. 806.
- Cultivator. P. Richardson. No. 1,133,884; Mar. 30; Gaz. vol. 212; p. 1590.
- Cultivator. J. F. Rogers. No. 1,149,785; Aug. 10; Gaz. vol. 217; p. 567.
- Cultivator. J. S. Smith. No. 1,157,433; Oct. 19; Gaz. vol. 219; p. 795.
- Cultivator. C. Strasser. No. 1,124,183; Jan. 5; Gaz. vol. 210; p. 335.
- Cultivator. W. P. Sutphin. No. 1,128,197; Feb. 9; Gaz. vol. 211; p. 578.
- Cultivator. F. C. Warne. No. 1,150,158; Aug. 17; Gaz. vol. 217; p. 764.
- Cultivator. S. Wilder. No. 1,131,303; Mar. 9; Gaz. vol. 212; p. 541.
- Cultivator, Adjustable-frame. F. Beasley. No. 1,140,019; May 18; Gaz. vol. 214; p. 882.
- Cultivator, Alfalfa-. C. Raszman. No. 1,135,051; Apr. 13; Gaz. vol. 213; p. 391.
- Cultivator and drag, Combined. H. Steinfert. No. 1,138,024; May 4; Gaz. vol. 214; p. 104.
- Cultivator and fertilizer-distributor, Combined. W. T. Leavelle. No. 1,123,325; Jan. 5; Gaz. vol. 210; p. 44.
- Cultivator and weed-cutter, Combined. J. H. Eccles. No. 1,158,906; Nov. 2; Gaz. vol. 220; p. 174.
- Cultivator and weeder. J. S. Harris. No. 1,134,194; Apr. 6; Gaz. vol. 213; p. 40.
- Cultivator attachment. C. Bergstrom. No. 1,143,591; June 15; Gaz. vol. 215; p. 954.
- Cultivator attachment. L. O. Davidson. No. 1,125,974; Jan. 26; Gaz. vol. 210; p. 1091.
- Cultivator attachment. C. Doak. No. 1,164,792; Dec. 21; Gaz. vol. 221; p. 805.
- Cultivator attachment. G. L. Miller. No. 1,166,144; Dec. 28; Gaz. vol. 221; p. 1318.
- Cultivator attachment. B. L. Parkes. No. 1,126,849; Feb. 2; Gaz. vol. 211; p. 67.
- Cultivator attachment. L. G. Petsch. No. 1,147,814; July 27; Gaz. vol. 216; p. 1059.
- Cultivator attachment. A. Wood. No. 1,132,504; Mar. 16; Gaz. vol. 212; p. 1007.
- Cultivator-cuff. R. E. Forrester. No. 1,154,180; Sept. 21; Gaz. vol. 218; p. 712.
- Cultivator, Disk. J. Herdlein. No. 1,164,518; Dec. 14; Gaz. vol. 221; p. 670.
- Cultivator, Disk. C. W. Michael. No. 1,144,151; June 22; Gaz. vol. 215; p. 1174.
- Cultivator, Double-row. D. E. Long. No. 1,132,480; Mar. 16; Gaz. vol. 212; p. 997.
- Cultivator fan attachment. S. G. Craver. No. 1,123,854; Jan. 5; Gaz. vol. 210; p. 224.
- Cultivator-fender. P. Schmitt. No. 1,154,063; Sept. 21; Gaz. vol. 218; p. 672.
- Cultivator-foot. J. C. Graves. No. 1,132,335; Mar. 16; Gaz. vol. 212; p. 945.
- Cultivator-foot. C. C. Vance. No. 1,141,732; June 1; Gaz. vol. 215; p. 228.
- Cultivator front frame. L. Sessler. No. 1,161,163; Nov. 23; Gaz. vol. 219; p. 1101.
- Cultivator, Hand-. J. Sheckler. No. 1,135,062; Apr. 13; Gaz. vol. 213; p. 394.
- Cultivator harrow attachment. L. E. Fawver. No. 1,131,499; Mar. 9; Gaz. vol. 212; p. 610.
- Cultivator-hopple. J. D. Hill. No. 1,133,284; Mar. 30; Gaz. vol. 212; p. 1374.
- Cultivator, Lister-. C. H. Melvin. No. 1,150,380; Aug. 17; Gaz. vol. 217; p. 841.
- Cultivator, Lister-. W. A. Paul. No. 1,148,613; Aug. 3; Gaz. vol. 217; p. 47.
- Cultivator or other vehicle having manually-controlled steering-wheels. A. S. Krotz. No. 1,162,077; Nov. 30; Gaz. vol. 220; p. 1469.
- Cultivator or plow attachment. W. W. E. Boyer. No. 1,139,840; May 18; Gaz. vol. 214; p. 819.
- Cultivator, Power-propelled. L. J. Monahan. No. 1,124,162; Jan. 5; Gaz. vol. 210; p. 328.
- Cultivator, Radial. B. F. Cranwell and W. J. Robertson. No. 1,126,712; Feb. 2; Gaz. vol. 211; p. 15.
- Cultivator, Roller-. H. E. Colleys. No. 1,162,902; Dec. 7; Gaz. vol. 221; p. 58.
- Cultivator seeder attachment. C. A. Rutherford. No. 1,152,224; Aug. 31; Gaz. vol. 217; p. 1578.
- Cultivator-shovel. D. S. Buffalow. No. 1,124,106; Jan. 5; Gaz. vol. 210; p. 308.
- Cultivator-shovel. J. H. Wright. No. 1,160,027; Nov. 9; Gaz. vol. 220; p. 600.
- Cultivator-tooth. C. Berg. No. 1,133,221; Mar. 23; Gaz. vol. 212; p. 1315.
- Cultivator, Two-row. L. E. Waterman. No. 1,137,935; May 4; Gaz. vol. 214; p. 74.
- Cultivator, Weed-cutting. G. F. Bush. No. 1,159,568; Nov. 9; Gaz. vol. 220; p. 436.
- Cultivator weeder attachment. W. W. Bunce. No. 1,163,586; Dec. 7; Gaz. vol. 221; p. 298.
- Cultivator weeder attachment, Corn-. H. A. Wilson. No. 1,127,560; Feb. 9; Gaz. vol. 211; p. 354.
- Cultivator, Wheeled. R. E. Meloen. No. 1,164,543; Dec. 14; Gaz. vol. 221; p. 678.
- Cultivators, Fertilizing attachment for. V. Terry. No. 1,127,317; Feb. 2; Gaz. vol. 211; p. 228.
- Cultivators, Insect-collecting attachment for. H. C. Mayerhoff. No. 1,156,303; Oct. 12; Gaz. vol. 219; p. 363.
- Cultivators, Spraying attachment for. F. Oldham. No. 1,156,622; Oct. 12; Gaz. vol. 219; p. 477.
- Culvert. A. W. Crottsly and W. M. Sawyer. No. 1,149,736; Aug. 10; Gaz. vol. 217; p. 549.
- Culvert. W. S. Hervett. No. 1,144,200; June 22; Gaz. vol. 215; p. 1191.
- Culvert. T. F. Lundergan. No. 1,165,425; Dec. 28; Gaz. vol. 221; p. 1065.
- Culvert. T. L. C. Vall. No. 1,149,702; Aug. 10; Gaz. vol. 217; p. 538.
- Culvert-core. C. Older, C. M. Slaymaker, and H. E. Bilger. No. 1,154,720; Sept. 28; Gaz. vol. 218; p. 926.
- Culvert-form. J. M. Cooper. No. 1,163,640; Dec. 14; Gaz. vol. 221; p. 361.
- Culvert-form. L. H. Townner. No. 1,134,778; Apr. 6; Gaz. vol. 213; p. 254.
- Culvert-form, Adjustable. E. E. Peoples and R. E. Lee. No. 1,144,862; June 29; Gaz. vol. 215; p. 1446.
- Culvert-pipe, Cast-iron. R. C. White. No. 1,160,554; Nov. 16; Gaz. vol. 220; p. 839.
- Culvert, Sheet-metal. J. H. Dean. No. 1,140,362; May 25; Gaz. vol. 214; p. 1036.
- Culverts, drainage-casings, &c., and connecting means therefor, Double-walled strainer for. A. Smith. No. 1,165,137; Dec. 21; Gaz. vol. 221; p. 927.
- Cup. *See—*
- | | |
|------------------|---------------------|
| Drinking-cup. | Paper drinking-cup. |
| Filtering-cup. | Priming-cup. |
| Force-cup. | Shaving-cup. |
| Grease-cup. | Soda-cup. |
| Lubricating-cup. | Sponge-cup. |
| Lubricator-cup. | Teat-cup. |
| Melting-cup. | Vacuum massage-cup. |
| Oil-cup. | |
- Cup-dispensing device. E. A. Claus. No. 1,145,350; July 6; Gaz. vol. 216; p. 130.
- Cup-holder. A. R. Hussey. No. 1,138,758; May 11; Gaz. vol. 214; p. 402.
- Cup-making machine. E. H. Taylor. No. 1,163,572; Dec. 7; Gaz. vol. 221; p. 292.
- Cup shield, Drinking-. R. S. Reynolds. No. 1,161,730; Nov. 23; Gaz. vol. 220; p. 1299.
- Cups, Locking device for grease-. R. G. Kissinger. No. 1,149,268; Aug. 10; Gaz. vol. 217; p. 381.
- Cupola-furnace. M. Zippler, Jr. No. 1,145,648; July 6; Gaz. vol. 216; p. 236.
- Curbs, Form for making. F. W. Eschen. No. 1,138,740; May 11; Gaz. vol. 214; p. 395.
- Curling-iron. B. Biss and L. Kohn. No. 1,147,296; July 20; Gaz. vol. 216; p. 850.
- Curling-iron heater. W. S. Hadaway, Jr. No. 1,146,758; July 13; Gaz. vol. 216; p. 644.
- Currency-handling machine. F. L. Sattley. No. 1,156,101; Oct. 12; Gaz. vol. 219; p. 296.
- Currency-wrapper. T. P. Martin, Jr. No. 1,162,501; Nov. 30; Gaz. vol. 220; p. 1615.
- Current apparatus, Alternating-. A. S. Hubbard. No. 1,160,610; Nov. 16; Gaz. vol. 220; p. 859.
- Current arc, Depositing repair metal across an alternating-. M. Arendt. No. 1,146,988; July 20; Gaz. vol. 216; p. 745.
- Current arrester, Directional-. P. C. Hewitt. No. 1,163,664; Dec. 14; Gaz. vol. 221; p. 369.

Alphabetical list of inventions—Continued.

- Current circuits, Apparatus for producing directive forces by induction in alternating. H. Abraham. No. 1,157,281; Oct. 19; Gaz. vol. 219; p. 740.
- Current-collector, Roller-bearing. R. E. Hewitt and W. W. Whitmore. No. 1,158,215; Oct. 26; Gaz. vol. 219; p. 1128.
- Current commutator machinery, Alternating. H. Meyer-Delius. No. 1,157,948; Oct. 26; Gaz. vol. 219; p. 1035.
- Current control for motor-vehicles. B. F. Schmidt. No. 1,150,545; Aug. 17; Gaz. vol. 217; p. 898.
- Current-controlling device. H. N. Ott. No. 1,135,608; Apr. 13; Gaz. vol. 213; p. 583.
- Current-controlling means, Direct. C. D. Lanning. No. 1,131,251; Mar. 9; Gaz. vol. 212; p. 523.
- Current-corrector. N. C. Darby. No. 1,142,041; June 15; Gaz. vol. 215; p. 761.
- Current-distributor blocks, Means for mounting. G. L. Lang and A. D. T. Libby. No. 1,125,852; Jan. 19; Gaz. vol. 210; p. 1015.
- Current-distributing device. C. N. Bergmann. No. 1,162,553; Nov. 30; Gaz. vol. 220; p. 1632.
- Current-distribution system. C. L. Fortescue. No. 1,154,852; Sept. 28; Gaz. vol. 218; p. 969.
- Current-distribution systems, Protective apparatus for alternating. G. Harlow and K. M. Faye-Hansen. No. 1,151,783; Aug. 31; Gaz. vol. 217; p. 1426.
- Current-diverter. T. D. Robinson. No. 1,140,317; May 18; Gaz. vol. 214; p. 985.
- Current-impulse transmitter. J. G. Roberts. No. 1,148,800; Aug. 3; Gaz. vol. 217; p. 114.
- Current-indicator. J. W. Ryan. No. 1,148,481; July 27; Gaz. vol. 216; p. 1296.
- Current indicator, Alternating. C. Krämer and J. Krell. No. 1,128,008; Feb. 9; Gaz. vol. 211; p. 512.
- Current installations, Device for working weak. F. Schröter. No. 1,141,836; June 1; Gaz. vol. 215; p. 261.
- Current-interrupter. C. F. Kettering. No. 1,162,073; Nov. 30; Gaz. vol. 220; p. 1467.
- Current machine, Direct. C. W. Girvin. No. 1,139,203; May 11; Gaz. vol. 214; p. 560.
- Current meter, Oscillating. J. L. Hogan, Jr. No. 1,152,632; Sept. 7; Gaz. vol. 218; p. 93.
- Current-motor. S. E. Bemiss and P. Johnson. No. 1,153,416; Sept. 14; Gaz. vol. 218; p. 412.
- Current-motor. E. C. Britt. No. 1,148,074; July 27; Gaz. vol. 216; p. 1153.
- Current-motor. C. C. Cooke. No. 1,131,680; Mar. 16; Gaz. vol. 212; p. 706.
- Current-motor. B. T. Sams and W. H. Hout. No. 1,164,403; Dec. 14; Gaz. vol. 221; p. 629.
- Current-motor. E. A. Speegle. No. 1,131,617; Mar. 9; Gaz. vol. 212; p. 649.
- Current-motor. S. Terzian. No. 1,128,636; Feb. 16; Gaz. vol. 211; p. 778.
- Current motor, Alternating. D. M. Bliss. No. 1,126,363; Jan. 26; Gaz. vol. 210; p. 1233.
- Current motor, Alternating. V. A. Fynn. No. 1,152,622; Sept. 7; Gaz. vol. 218; p. 89.
- Current motor, Alternating. O. Knöpfli. No. 1,148,592; Aug. 3; Gaz. vol. 217; p. 39.
- Current motors, Controller for alternating. A. Simon. No. 1,132,741; Mar. 23; Gaz. vol. 212; p. 1141.
- Current rectification, System of. C. L. Fortescue. No. 1,158,474; Nov. 2; Gaz. vol. 220; p. 22.
- Current rectifier, Alternating. E. C. Ballman. No. 1,131,896; Mar. 16; Gaz. vol. 212; p. 784.
- Current rectifier, Alternating. E. Fässler. No. 1,131,919; Mar. 16; Gaz. vol. 212; p. 793.
- Current rectifier, Alternating. E. Fässler. No. 1,131,920; Mar. 16; Gaz. vol. 212; p. 793.
- Current rectifier, Alternating. S. G. Langley. No. 1,152,646; Sept. 7; Gaz. vol. 218; p. 98.
- Current rectifier and rectifying system, Alternating. J. Chesler. No. 1,145,116; July 6; Gaz. vol. 216; p. 50.
- Current rectifier and similar apparatus, Vapor alternating. B. Schaefer. No. 1,126,877; Feb. 2; Gaz. vol. 211; p. 75.
- Current rectifier system, Constant. C. P. Steinmetz. No. 1,131,282; Mar. 9; Gaz. vol. 212; p. 534.
- Current, Rectifying alternating. E. Weintraub. No. 1,134,786; Apr. 6; Gaz. vol. 213; p. 257.
- Current, Rectifying alternating. E. Weintraub. No. 1,134,787; Apr. 6; Gaz. vol. 213; p. 257.
- Current-rectifying apparatus, Transformer for use with. F. Conrad. No. 1,123,248; Jan. 5; Gaz. vol. 210; p. 16.
- Current-rectifying system. C. W. Sirch. No. 1,133,447; Mar. 30; Gaz. vol. 212; p. 1432.
- Current-rectifying system, Alternating. D. M. Bliss. No. 1,152,594; Sept. 7; Gaz. vol. 218; p. 79.
- Current-rectifying system, Alternating. T. A. Edison. No. 1,152,615; Sept. 7; Gaz. vol. 218; p. 86.
- Current-responsive apparatus, Alternating. H. J. Van der Bijl. No. 1,130,043; Mar. 2; Gaz. vol. 212; p. 70.
- Current starter, Polyphase. E. Besag. No. 1,147,071; July 20; Gaz. vol. 216; p. 773.
- Current system, Alternating. L. C. Marburg. No. 1,144,149; June 22; Gaz. vol. 215; p. 1173.
- Current, tension, and power by self-acting resistances, Device for the comparison of. M. Kallmann. No. 1,136,810; Apr. 20; Gaz. vol. 213; p. 1049.
- Currents, Detector for oscillating. W. E. Beakes. No. 1,158,112; Oct. 26; Gaz. vol. 219; p. 1093.
- Currents, Means and method for varying the voltage of alternating. E. H. Schwarz. No. 1,163,268; Dec. 7; Gaz. vol. 221; p. 186.
- Currents, Production of high-frequency. E. Weintraub. No. 1,131,190; Mar. 9; Gaz. vol. 212; p. 502.
- Currents, System for producing high-tension. C. I. Zimmerman. No. 1,139,623; May 18; Gaz. vol. 214; p. 742.
- Currycomb. E. L. Adams. No. 1,135,482; Apr. 13; Gaz. vol. 213; p. 538.
- Currycomb. H. E. Anderson. No. 1,135,246; Apr. 13; Gaz. vol. 213; p. 456.
- Currycomb. A. C. Decker. No. 1,126,721; Feb. 2; Gaz. vol. 211; p. 19.
- Currycomb. J. F. Green. No. 1,125,840; Jan. 19; Gaz. vol. 210; p. 1010.
- Currycomb. W. W. Harris. No. 1,137,613; Apr. 27; Gaz. vol. 213; p. 1371.
- Currycomb. G. S. Miller. No. 1,136,156; Apr. 20; Gaz. vol. 213; p. 816.
- Currycomb. E. R. Mullett and W. D. Fowler. No. 1,164,204; Dec. 14; Gaz. vol. 221; p. 558.
- Currycomb. J. W. Wilson. No. 1,149,608; Aug. 10; Gaz. vol. 217; p. 504.
- Currycomb and brush, Double. H. Cole. No. 1,135,664; Apr. 13; Gaz. vol. 213; p. 604.
- Currycomb, Suction. A. D. Vandergon. No. 1,149,481; Aug. 10; Gaz. vol. 217; p. 456.
- Curtain. J. H. Boughton. No. 1,161,444; Nov. 23; Gaz. vol. 220; p. 1203.
- Curtain. L. O. Woolery. No. 1,127,571; Feb. 9; Gaz. vol. 211; p. 357.
- Curtain and fastening means. L. Bigger. No. 1,148,950; Aug. 3; Gaz. vol. 217; p. 164.
- Curtain and shade fixture. A. W. S. Rothermel. No. 1,129,907; Mar. 2; Gaz. vol. 212; p. 25.
- Curtain and shade fixture, Combined. R. Kurtz. No. 1,129,694; Feb. 23; Gaz. vol. 211; p. 1182.
- Curtain and shade holder, Window. J. H. Linn. No. 1,138,493; May 4; Gaz. vol. 214; p. 271.
- Curtain and shade roller holder. L. and H. Zevin. No. 1,147,355; July 20; Gaz. vol. 216; p. 871.
- Curtain and shade roller supporter. L. and H. Zevin. No. 1,147,354; July 20; Gaz. vol. 216; p. 871.
- Curtain, Auto. H. E. Miller. No. 1,161,149; Nov. 23; Gaz. vol. 220; p. 1095.
- Curtain-bracket. C. R. Meyer. No. 1,163,840; Dec. 14; Gaz. vol. 221; p. 433.
- Curtain, Combined transom and door. E. J. Croft. No. 1,140,665; May 25; Gaz. vol. 214; p. 1144.
- Curtain drier and stretcher. W. P. Ballard. No. 1,162,738; Dec. 7; Gaz. vol. 221; p. 3.
- Curtain-fastener. H. A. Poppenhusen. No. 1,128,719; Feb. 16; Gaz. vol. 211; p. 806.
- Curtain-fastener. J. W. Tilton. No. 1,131,293; Mar. 9; Gaz. vol. 212; p. 588.
- Curtain-fixture. J. Becker. No. 1,132,151; Mar. 16; Gaz. vol. 212; p. 877.
- Curtain-fixture. P. Holdensen. No. 1,147,944; July 27; Gaz. vol. 216; p. 1106.
- Curtain-fixture. E. E. Ruffner and G. F. Oakley. No. 1,151,050; Aug. 24; Gaz. vol. 217; p. 1130.
- Curtain-fixture. F. Young. No. 1,128,396; Feb. 16; Gaz. vol. 211; p. 695.
- Curtain frame or support, Mosquito. W. T. Gough. No. 1,124,420; Jan. 12; Gaz. vol. 210; p. 468.
- Curtain-hanger. A. Dickey. No. 1,148,083; July 27; Gaz. vol. 216; p. 1157.
- Curtain, Heating. B. E. Kigans. No. 1,159,952; Nov. 9; Gaz. vol. 220; p. 577.
- Curtain-holder. A. H. Ewing. No. 1,164,339; Dec. 14; Gaz. vol. 221; p. 607.
- Curtain-holder. H. A. Richter. No. 1,147,548; July 20; Gaz. vol. 216; p. 940.
- Curtain-holder. S. B. Walker. No. 1,139,451; May 11; Gaz. vol. 214; p. 646.
- Curtain-holder, Adjustable. A. Urdzela. No. 1,141,370; June 1; Gaz. vol. 215; p. 101.
- Curtain-holding bracket. J. F. Miser. No. 1,146,642; July 13; Gaz. vol. 216; p. 605.
- Curtain-light. G. White. No. 1,162,268; Nov. 30; Gaz. vol. 220; p. 1536.
- Curtain-pole. A. and A. Schmalz. No. 1,140,074; May 18; Gaz. vol. 214; p. 903.
- Curtain-pole. W. W. Smalley. No. 1,125,749; Jan. 19; Gaz. vol. 210; p. 979.
- Curtain-pole and window-shade bracket, Combined. E. Thieme. No. 1,131,571; Mar. 9; Gaz. vol. 212; p. 633.
- Curtain-pole holder and shade-bracket, Combined. P. J. Hamill. No. 1,150,760; Aug. 17; Gaz. vol. 217; p. 972.
- Curtain-pole-lifting device. C. V. Anderson. No. 1,159,819; Nov. 9; Gaz. vol. 220; p. 528.
- Curtain-pole support. J. W. Cordingley. No. 1,140,255; May 18; Gaz. vol. 214; p. 964.
- Curtain-pole-supporting attachment. E. Pratt. No. 1,165,625; Dec. 28; Gaz. vol. 221; p. 1135.
- Curtain ring and clamp, Combined. M. Wogan. No. 1,130,362; Mar. 2; Gaz. vol. 212; p. 180.
- Curtain-rod and bracket. C. F. Laun. No. 1,127,459; Feb. 9; Gaz. vol. 211; p. 319.

Alphabetical list of inventions—Continued.

- Curtain-rod bracket. J. N. Henry. No. 1,156,976; Oct. 12; Gaz. vol. 219; p. 288.
- Curtain-rod bracket. F. L. Lathrop. No. 1,150,274; Aug. 17; Gaz. vol. 217; p. 805.
- Curtain-rod, Double-spring adjustable. G. A. Buckley. No. 1,140,570; May 25; Gaz. vol. 214; p. 1111.
- Curtain-rod lock. C. W. Kirsch. No. 1,142,438; June 8; Gaz. vol. 215; p. 514.
- Curtain rod, Sash-. C. M. Norwood. No. 1,148,252; July 27; Gaz. vol. 216; p. 1216.
- Curtain-roller. C. L. Bundy and W. Grant. No. 1,133,227; Mar. 23; Gaz. vol. 212; p. 1317.
- Curtain-roller. C. L. Bundy and W. Grant. No. 1,149,993; Aug. 10; Gaz. vol. 217; p. 643.
- Curtain-roller. W. H. Forsyth. No. 1,132,655; Mar. 23; Gaz. vol. 212; p. 1110.
- Curtain-roller. E. E. Whitmore. No. 1,147,834; July 27; Gaz. vol. 216; p. 1067.
- Curtain-roller, Extensible. H. Klein. No. 1,132,100; Mar. 16; Gaz. vol. 212; p. 857.
- Curtain-roller, Reinforced. E. E. Whitmore. No. 1,132,643; Mar. 23; Gaz. vol. 212; p. 1106.
- Curtain-securing device. F. Swickard. No. 1,154,670; Sept. 28; Gaz. vol. 218; p. 910.
- Curtain, Storm-. O. L. White. No. 1,136,570; Apr. 20; Gaz. vol. 213; p. 964.
- Curtain-stretcher. L. I. Lockwood. No. 1,142,823; June 15; Gaz. vol. 215; p. 684.
- Curtain-stretcher. P. Schneider. No. 1,154,732; Sept. 28; Gaz. vol. 218; p. 929.
- Curtain-stretching frame. W. P. Hough. No. 1,151,594; Aug. 31; Gaz. vol. 217; p. 1362.
- Curtain-support. J. V. King, Jr., and G. E. Ruffley. No. 1,155,823; Oct. 5; Gaz. vol. 219; p. 175.
- Curtain-support. G. M. Weitzel. No. 1,138,336; May 4; Gaz. vol. 214; p. 217.
- Curtain, Vehicle-. F. E. Liger. No. 1,159,321; Nov. 2; Gaz. vol. 220; p. 317.
- Curve device for drawing-office and other purposes, Flexible. H. Brotherton. No. 1,161,451; Nov. 23; Gaz. vol. 220; p. 1205.
- Curved strips, Machine for cutting. T. Bradshaw. No. 1,162,331; Nov. 30; Gaz. vol. 220; p. 1557.
- Cushion: *See—*
- Air-cushion. Orthopedic cushion.
 - Bed-pan cushion. Pincushion.
 - Billiard-cushion. Pneumatic cushion.
 - Foot-toe cushion. Sash-cushion.
 - Heel-cushion. Seat-cushion.
 - Invalid-cushion. Sound-box cushion.
 - Life-preserver cushion. Tire-cushion.
- Cushion. B. F. Fortner and J. G. Main. No. 1,143,182; June 15; Gaz. vol. 215; p. 812.
- Cushion. W. J. Williams and J. C. Bowman. No. 1,165,052; Dec. 21; Gaz. vol. 221; p. 896.
- Cushion construction, Seat-back-. E. C. Niehauser. No. 1,162,870; Dec. 7; Gaz. vol. 221; p. 48.
- Cushion construction, Spring-. F. J. Foill. No. 1,133,119; Mar. 23; Gaz. vol. 212; p. 1280.
- Cushion device for nigger-bars. W. A. Harrold. No. 1,143,267; June 15; Gaz. vol. 215; p. 841.
- Cushion device, Spring-. C. P. Byrnes. No. 1,162,283; Nov. 30; Gaz. vol. 220; p. 1541.
- Cushion-seat. F. J. Foill. No. 1,140,973; May 25; Gaz. vol. 214; p. 1252.
- Cushion-spring. C. W. Schultz. No. 1,146,026; July 13; Gaz. vol. 216; p. 388.
- Cushion-spring and shock-absorber, Combined. J. C. Schleicher. No. 1,136,489; Apr. 20; Gaz. vol. 213; p. 936.
- Cushion structure, Seat-. F. P. D'Arcy. No. 1,129,337; Feb. 23; Gaz. vol. 211; p. 1059.
- Cushion structure, Seat-. F. P. D'Arcy. No. 1,139,644; May 18; Gaz. vol. 214; p. 749.
- Cushion-wheel. G. E. Alton. No. 1,158,422; Nov. 2; Gaz. vol. 220; p. 3.
- Cushion-wheel. C. T. Miller. No. 1,156,242; Oct. 12; Gaz. vol. 219; p. 342.
- Cushion-wheel. J. F. Nettle. No. 1,143,304; June 15; Gaz. vol. 215; p. 854.
- Cushion-wheel. E. H. Schur. No. 1,140,771; May 25; Gaz. vol. 214; p. 1178.
- Cushion-wheel. J. Thissen. No. 1,124,675; Jan. 12; Gaz. vol. 210; p. 562.
- Cushion wheel, Single-spoke-. A. Moon. No. 1,143,427; June 15; Gaz. vol. 215; p. 899.
- Cushioned wheel. J. F. Franklin and B. S. Cowell. No. 1,129,860; Mar. 2; Gaz. vol. 212; p. 10.
- Cuspidor. L. Berger. No. 1,148,283; July 27; Gaz. vol. 216; p. 1227.
- Cuspidor. W. G. Beye. No. 1,155,202; Sept. 28; Gaz. vol. 218; p. 1091.
- Cuspidor. B. Ewing. No. 1,151,169; Aug. 24; Gaz. vol. 217; p. 1170.
- Cuspidor. W. J. Fittall and W. E. Tayman. No. 1,147,156; July 20; Gaz. vol. 216; p. 803.
- Cuspidor. S. Fragoulis. No. 1,131,829; Mar. 16; Gaz. vol. 212; p. 761.
- Cuspidor. W. F. Hagen and W. F. Budenbach. No. 1,129,976; Mar. 2; Gaz. vol. 212; p. 48.
- Cuspidor. H. W. Hancock. No. 1,165,968; Dec. 28; Gaz. vol. 221; p. 1254.
- Cuspidor. W. P. Hayes. No. 1,148,897; Aug. 3; Gaz. vol. 217; p. 146.
- Cuspidor. C. H. Lane. No. 1,156,605; Oct. 12; Gaz. vol. 219; p. 470.
- Cuspidor. W. S. C. Megill. No. 1,125,909; Jan. 19; Gaz. vol. 210; p. 1035.
- Cuspidor. A. Miheleisch. No. 1,166,236; Dec. 28; Gaz. vol. 221; p. 1353.
- Cuspidor. J. P. Miller. No. 1,148,703; Aug. 3; Gaz. vol. 217; p. 79.
- Cuspidor. J. R. Roberts. No. 1,130,107; Mar. 2; Gaz. vol. 212; p. 92.
- Cuspidor. F. S. Smelik. No. 1,130,937; Mar. 9; Gaz. vol. 212; p. 416.
- Cuspidor. H. Task. No. 1,123,954; Jan. 5; Gaz. vol. 210; p. 257.
- Cuspidor. S. O. Walters. No. 1,141,734; June 1; Gaz. vol. 215; p. 229.
- Cuspidor. A. Wospil. No. 1,166,298; Dec. 28; Gaz. vol. 221; p. 1375.
- Cuspidor-carrier. E. Rusfeldt. No. 1,137,909; May 4; Gaz. vol. 214; p. 65.
- Cuspidor, Flushing-. H. F. Black. No. 1,130,249; Mar. 2; Gaz. vol. 212; p. 141.
- Cuspidor-handling device. J. G. MacRae. No. 1,138,131; May 4; Gaz. vol. 214; p. 145.
- Cuspidor-lifter. A. Dulin. No. 1,125,983; Jan. 26; Gaz. vol. 210; p. 1094.
- Cuspidor lifter and carrier. O. M. Evans. No. 1,147,316; July 20; Gaz. vol. 216; p. 857.
- Cuspidor, Sanitary. C. S. Harper. No. 1,125,093; Jan. 19; Gaz. vol. 210; p. 744.
- Cuspidor-support. S. Y. Goldberg. No. 1,123,519; Jan. 5; Gaz. vol. 210; p. 110.
- Cut-off. J. L. Steel. No. 1,144,259; June 22; Gaz. vol. 215; p. 1211.
- Cut-off, Automatic. A. A. Cummings. No. 1,140,666; May 25; Gaz. vol. 214; p. 1144.
- Cut-off, Automatic. H. A. Hayward. No. 1,125,315; Jan. 19; Gaz. vol. 210; p. 824.
- Cut-off, Automatic. J. E. Williams. No. 1,132,415; Mar. 16; Gaz. vol. 212; p. 974.
- Cut-off, Automatic time. A. J. Richardson. No. 1,150,453; Aug. 17; Gaz. vol. 217; p. 865.
- Cut-off mechanism. M. B. Lloyd. No. 1,124,762; Jan. 12; Gaz. vol. 210; p. 592.
- Cut-off-stop table. F. L. Park and W. R. Moore. No. 1,128,896; Feb. 16; Gaz. vol. 211; p. 870.
- Cut-out box. R. C. Cole. No. 1,135,358; Apr. 13; Gaz. vol. 213; p. 494.
- Cut-out box. A. L. Pierce. No. 1,132,116; Mar. 16; Gaz. vol. 212; p. 864.
- Cut-out, Centrifugal. L. W. Horting. No. 1,135,801; Apr. 13; Gaz. vol. 213; p. 651.
- Cut-out switch. T. E. Murray. No. 1,158,535; Nov. 2; Gaz. vol. 220; p. 45.
- Cuts and dams, Resecuring slipped slopes of. O. Paech. No. 1,151,608; Aug. 31; Gaz. vol. 217; p. 1366.
- Cuts, Making. L. W. Burgess. No. 1,155,128; Sept. 28; Gaz. vol. 218; p. 1067.
- Cutlery article. H. C. Hart. No. 1,161,665; Nov. 23; Gaz. vol. 220; p. 1278.
- Cutlery articles, tools, and other instruments or purposes, Forming metal blanks or the like for. H. Tolputt. No. 1,135,863; Apr. 13; Gaz. vol. 213; p. 673.
- Cutlery implements and the bolster-blank therefor, Forming and attaching bolsters to. J. F. Lamb. No. 1,136,603; Apr. 20; Gaz. vol. 213; p. 975.
- Cutlery, Making. W. F. Gorton. No. 1,155,229; Sept. 28; Gaz. vol. 218; p. 1099.
- Cutlery, Package for table. C. F. Williams. No. 1,129,437; Feb. 23; Gaz. vol. 211; p. 1095.
- Cutter: *See—*
- Asparagus-cutter. Flue-cutter.
 - Band-cutter. Food-cutter.
 - Bandage-roll cutter. Fruit and vegetable cutter.
 - Bolt-cutter. Fruit or vegetable cutter.
 - Butter-cutter. Glass-cutter.
 - Cable-cutter. Hedge-cutter.
 - Calender-cutter. Heel-seat cutter.
 - Candy-cutter. Host-cutter.
 - Cheese-cutter. Insulation-cutter.
 - Cigar-cutter. Meat and food cutter.
 - Cigar-tip cutter. Milling-cutter.
 - Coal-cutter. Nail-cutter.
 - Computing merchandise-cutter. Needle-cutter.
 - Cord and twine cutter. Paper-cutter.
 - Corn-cutter. Paper and twine cutter.
 - Corn and cotton stalk cutter. Phonograph-needle cutter.
 - Cotton-stalk cutter. Pipe-cutter.
 - Crayon-cutter. Pipe and iron cutter.
 - Cruller-cutter. Pocket-cutter.
 - Dental disk-cutter. Potato-cutter.
 - Dough-cutter. Potato-chip cutter.
 - Edible-cutter. Pretzel-cutter.
 - Ensilage-cutter. Reciprocating cutter.
 - Feed-cutter. Ridge-cutter.
 - Flue-cutter. Rod-cutter.
 - Food-cutter. Rotary cutter.
 - Fruit and vegetable cutter.
 - Fruit or vegetable cutter.
 - Glass-cutter.
 - Hedge-cutter.
 - Heel-seat cutter.
 - Host-cutter.
 - Insulation-cutter.
 - Meat and food cutter.
 - Milling-cutter.
 - Nail-cutter.
 - Needle-cutter.
 - Paper-cutter.
 - Paper and twine cutter.
 - Phonograph-needle cutter.
 - Pipe-cutter.
 - Pipe and iron cutter.
 - Pocket-cutter.
 - Potato-cutter.
 - Potato-chip cutter.
 - Pretzel-cutter.
 - Reciprocating cutter.
 - Ridge-cutter.
 - Rod-cutter.
 - Rotary cutter.

Alphabetical list of inventions—Continued.

- Cutter—Continued.
 Screw-cutter.
 Salvage-cutter.
 Sewing-machine thread-cutter.
 Sheet-metal cutter.
 Snow-cutter.
 Sole-cutter.
 Stalk-cutter.
 Tenon-cutter.
 Thread-cutter.
 Trench-cutter.
 Tube-cutter.
 Tube or flue cutter.
 Twine-cutter.
 Vegetable-cutter.
 Vine-cutter.
 Weed-cutter.
 Wire-cutter.
 Wrapper-cutter.
- Cutter. J. C. Backert. No. 1,136,085; Apr. 20; Gaz. vol. 213; p. 790.
 Cutter. A. Bluege. No. 1,144,750; June 29; Gaz. vol. 215; p. 1407.
 Cutter. C. A. Schmitt. No. 1,140,402; May 25; Gaz. vol. 214; p. 1052.
 Cutter. W. P. Shortridge. No. 1,133,753; Mar. 30; Gaz. vol. 212; p. 1542.
 Cutter. B. Von Bültzingslöwen. No. 1,152,577; Sept. 7; Gaz. vol. 218; p. 74.
 Cutter and chopper. Combined. S. Simon. No. 1,155,843; Oct. 5; Gaz. vol. 219; p. 182.
 Cutter attachment. A. E. Berglund. No. 1,154,837; Sept. 28; Gaz. vol. 218; p. 965.
 Cutter-bar. E. A. Bartges. No. 1,145,739; July 6; Gaz. vol. 216; p. 268.
 Cutter-bar construction. A. R. Conner. No. 1,134,588; Apr. 6; Gaz. vol. 213; p. 184.
 Cutter-bar for mowers, reapers, and corn-blinders. G. D. Knapp. No. 1,152,322; Aug. 31; Gaz. vol. 217; p. 1612.
 Cutter-bars. Device for alining. E. Camburn. No. 1,161,024; Nov. 23; Gaz. vol. 220; p. 1052.
 Cutter-head. C. J. Klingborg. No. 1,137,216; Apr. 27; Gaz. vol. 213; p. 1232.
 Cutter-head. V. R. Koontz. No. 1,123,315; Jan. 5; Gaz. vol. 210; p. 40.
 Cutter-head. V. R. Koontz. No. 1,149,452; Aug. 10; Gaz. vol. 217; p. 447.
 Cutter-head. A. B. Landis. No. 1,127,457; Feb. 9; Gaz. vol. 211; p. 319.
 Cutter-head. C. Lutze. No. 1,162,792; Dec. 7; Gaz. vol. 221; p. 21.
 Cutter-head. E. S. Shimer. No. 1,142,776; June 8; Gaz. vol. 215; p. 629.
 Cutter-head. E. S. Shimer. No. 1,143,449; June 15; Gaz. vol. 215; p. 906.
 Cutter-head. W. M. Tagart. No. 1,149,304; Aug. 10; Gaz. vol. 217; p. 394.
 Cutter-head. E. H. Waugh. No. 1,137,937; May 4; Gaz. vol. 214; p. 75.
 Cutter-head. E. H. Waugh. No. 1,138,816; May 11; Gaz. vol. 214; p. 423.
 Cutter-head. C. G. Wilderson. No. 1,147,473; July 20; Gaz. vol. 216; p. 915.
 Cutter-head, Rotary. E. Harrold. No. 1,153,910; Sept. 21; Gaz. vol. 218; p. 619.
 Cutter-holder. R. G. Brackett. No. 1,131,818; Mar. 16; Gaz. vol. 212; p. 757.
 Cutters. Mechanism for relieving the teeth of. C. Bonillon. No. 1,132,551; Mar. 23; Gaz. vol. 212; p. 1070.
 Cutters. Ratchet-driving mechanism for. C. P. Bass. No. 1,141,682; June 1; Gaz. vol. 215; p. 212.
 Cutting and conveying mechanism. E. C. Thorschmidt. No. 1,160,788; Nov. 16; Gaz. vol. 220; p. 923.
 Cutting apparatus. M. F. Freeman. No. 1,124,124; Jan. 5; Gaz. vol. 210; p. 315.
 Cutting apparatus. G. Hansen. No. 1,139,179; May 11; Gaz. vol. 214; p. 552.
 Cutting apparatus. J. H. Munro. No. 1,134,217; Apr. 6; Gaz. vol. 213; p. 49.
 Cutting apparatus. Rock. F. Lobnitz. No. 1,149,846; Aug. 10; Gaz. vol. 217; p. 590.
 Cutting, counting, and packaging machine. G. C. Bauman. No. 1,134,941; Apr. 6; Gaz. vol. 213; p. 305.
 Cutting device. W. G. Patton. No. 1,143,857; June 22; Gaz. vol. 215; p. 1069.
 Cutting-die. A. Geiger. No. 1,129,478; Feb. 23; Gaz. vol. 211; p. 1111.
 Cutting-die. J. J. Heys. No. 1,165,599; Dec. 28; Gaz. vol. 221; p. 1125.
 Cutting-die. D. N. Prime. No. 1,150,147; Aug. 17; Gaz. vol. 217; p. 759.
 Cutting-disk for metal-cutting machines. H. Heynau. No. 1,129,980; Mar. 2; Gaz. vol. 212; p. 50.
 Cutting, drawing, and measuring instrument. G. T. Chancellor. No. 1,159,569; Nov. 9; Gaz. vol. 220; p. 437.
 Cutting forms. Machine for. E. L. Patten. No. 1,144,429; June 29; Gaz. vol. 215; p. 1299.
 Cutting implement. A. O. Brigrance. No. 1,138,076; May 4; Gaz. vol. 214; p. 125.
 Cutting-knife for calenders. G. H. Lewis. No. 1,151,527; Aug. 24; Gaz. vol. 217; p. 1290.
 Cutting-machine. J. C. Backert. No. 1,137,251; Apr. 27; Gaz. vol. 213; p. 1245.
 Cutting-machine. O. C. L. Hirsch. No. 1,133,142; Mar. 23; Gaz. vol. 212; p. 1288.
 Cutting-machine. A. B. F. L. and H. A. Ireland. No. 1,164,650; Dec. 21; Gaz. vol. 221; p. 755.
- Cutting-machine. O. Johne. No. 1,131,706; Mar. 16; Gaz. vol. 212; p. 715.
 Cutting-machine. F. W. Johnson. No. 1,130,979; Mar. 9; Gaz. vol. 212; p. 429.
 Cutting-machine. A. Latham. No. 1,129,876; Mar. 2; Gaz. vol. 212; p. 15.
 Cutting-machine. F. W. Nübling. No. 1,129,360; Feb. 23; Gaz. vol. 211; p. 1068.
 Cutting-machine. M. Oppenheim. No. 1,124,792; Jan. 12; Gaz. vol. 210; p. 603.
 Cutting-machine. L. E. Parmelee. No. 1,165,119; Dec. 21; Gaz. vol. 221; p. 921.
 Cutting-machine. R. D. Pearson. No. 1,123,919; Jan. 5; Gaz. vol. 210; p. 246.
 Cutting-machine. R. C. Simmons. No. 1,129,131; Feb. 23; Gaz. vol. 211; p. 989.
 Cutting-machine. E. E. Winkley. No. 1,136,193; Apr. 20; Gaz. vol. 213; p. 829.
 Cutting-machine clamp. Bias. E. Pickett. No. 1,162,727; Nov. 30; Gaz. vol. 220; p. 1688.
 Cutting-machine knife. A. E. Hopkins and O. S. Fellows. No. 1,131,838; Mar. 16; Gaz. vol. 212; p. 765.
 Cutting-machine. Metal friction. E. T. Hendee. No. 1,126,212; Jan. 26; Gaz. vol. 210; p. 1179.
 Cutting mechanism. F. G. Feeley. No. 1,138,369; May 4; Gaz. vol. 214; p. 229.
 Cutting mechanism. L. M. Jones. No. 1,147,802; July 27; Gaz. vol. 216; p. 1055.
 Cutting mechanism. E. Koella. No. 1,143,285; June 15; Gaz. vol. 215; p. 847.
 Cutting mechanism. C. McNeil. No. 1,143,421; June 15; Gaz. vol. 215; p. 896.
 Cutting mechanism. E. C. Morgan. No. 1,140,841; May 25; Gaz. vol. 214; p. 1203.
 Cutting mechanism. E. C. Morgan. No. 1,141,254; June 1; Gaz. vol. 215; p. 57.
 Cutting mechanism. L. A. Schmidt. No. 1,148,337; July 27; Gaz. vol. 216; p. 1247.
 Cutting slices of meat or the like. Machine for. C. Knudsen. No. 1,152,029; Aug. 31; Gaz. vol. 217; p. 1511.
 Cutting strips of material into predetermined lengths. Machine for. J. T. Wood. No. 1,145,450; July 6; Gaz. vol. 216; p. 166.
 Cutting-tool. W. L. Cooley and W. F. Bach. No. 1,128,294; Feb. 16; Gaz. vol. 211; p. 662.
 Cutting-tool. H. K. Porter. No. 1,145,082; July 6; Gaz. vol. 216; p. 39.
 Cutting-tool. S. A. Wegland. No. 1,156,336; Oct. 12; Gaz. vol. 219; p. 375.
 Cutting-tool. J. Whitaker. No. 1,130,649; Mar. 2; Gaz. vol. 212; p. 282.
 Cutting-tool for high-speed work. M. Walser. No. 1,129,925; Mar. 2; Gaz. vol. 212; p. 32.
 Cutting-tools. Hardening the cutting portions of. J. Whitaker. No. 1,130,650; Mar. 2; Gaz. vol. 212; p. 282.
 Cyanding apparatus. F. E. Carman. No. 1,146,783; July 20; Gaz. vol. 216; p. 672.
 Cyands. Making. A. C. Spencer and K. P. McElroy. No. 1,156,108; Oct. 12; Gaz. vol. 219; p. 299.
 Cyanogen compounds. Producing. C. Beindl. No. 1,144,457; June 29; Gaz. vol. 215; p. 1308.
 Cycle and saddle therefor. Motor. D. S. Troxel. No. 1,128,735; Feb. 16; Gaz. vol. 211; p. 811.
 Cycle and saddle therefor. Motor. D. S. Troxel. No. 1,140,724; May 25; Gaz. vol. 214; p. 1162.
 Cycle and the like frame. R. Incerti. No. 1,148,170; July 27; Gaz. vol. 216; p. 1188.
 Cycle and the like wheel. Motor. H. A. and C. R. Collier. No. 1,132,831; Mar. 23; Gaz. vol. 212; p. 1176.
 Cycle appliance. Water. E. Burns. No. 1,160,257; Nov. 16; Gaz. vol. 220; p. 735.
 Cycle brace. Motor. C. J. Hunter. No. 1,160,079; Nov. 9; Gaz. vol. 220; p. 618.
 Cycle engine. Compound self-igniting two. C. G. Whitmarsh. No. 1,150,723; Aug. 17; Gaz. vol. 217; p. 960.
 Cycle-frame. L. H. Cobb. No. 1,132,829; Mar. 23; Gaz. vol. 212; p. 1175.
 Cycle frame. Motor. A. S. Terhaar. No. 1,130,038; Mar. 2; Gaz. vol. 212; p. 69.
 Cycle frame. Motor. E. Y. White. No. 1,152,773; Sept. 7; Gaz. vol. 218; p. 144.
 Cycle lighting system. Motor. A. H. Neuland. No. 1,151,530; Aug. 24; Gaz. vol. 217; p. 1292.
 Cycle-lock. G. Baumann. No. 1,137,691; Apr. 27; Gaz. vol. 213; p. 1396.
 Cycle. Motor. F. A. Etwell. No. 1,162,993; Dec. 7; Gaz. vol. 221; p. 90.
 Cycle. Motor. W. G. Johnson. No. 1,157,547; Oct. 19; Gaz. vol. 219; p. 832.
 Cycle. Motor. A. Strand. No. 1,143,793; June 22; Gaz. vol. 215; p. 1046.
 Cycle. Motor. J. N. Williams. No. 1,139,616; May 18; Gaz. vol. 214; p. 739.
 Cycle. Motor. A. H. W. Yordl. No. 1,139,622; May 18; Gaz. vol. 214; p. 742.
 Cycle. Motor. H. St. Yves. No. 1,164,122; Dec. 14; Gaz. vol. 221; p. 531.
 Cycle, motor-cycle, and analogous saddle and seat. B. Brooks. No. 1,128,940; Feb. 16; Gaz. vol. 211; p. 886.
 Cycle prop. Motor. M. Vesich. No. 1,137,368; Apr. 27; Gaz. vol. 213; p. 1289.

- Cycle-riders, Protective armor for. F. Marcovsky. No. 1,144,150; June 22; Gaz. vol. 215: p. 1173.
- Cycle-saddle. M. M. Deem. No. 1,157,512; Oct. 19; Gaz. vol. 219; p. 821.
- Cycle-saddle. J. G. Jelley. No. 1,130,606; Mar. 2; Gaz. vol. 212; p. 268.
- Cycle-saddle. D. F. Printz. No. 1,151,613; Aug. 31; Gaz. vol. 217; p. 1368.
- Cycle saddle, Motor-. C. J. Gustafson. No. 1,152,172; Aug. 31; Gaz. vol. 217; p. 1560.
- Cycle saddle, Motor-. F. Mesinger. No. 1,133,389; Mar. 30; Gaz. vol. 212; p. 1412.
- Cycle saddle, Motor-. F. Mesinger. No. 1,157,711; Oct. 26; Gaz. vol. 219; p. 952.
- Cycle saddle, Motor-. H. Mesinger. No. 1,130,316; Mar. 2; Gaz. vol. 212; p. 165.
- Cycle saddle, Motor-. I. A. Oliver. No. 1,153,817; Sept. 14; Gaz. vol. 218; p. 553.
- Cycle seat and carrier attachment, Motor-. E. and H. Pawsat. No. 1,139,715; May 18; Gaz. vol. 214; p. 776.
- Cycle seat, Motor-. B. S. Chilson. No. 1,144,588; June 29; Gaz. vol. 215; p. 1351.
- Cycle side-car frame, Motor-. R. F. Rogers. No. 1,140,069; May 18; Gaz. vol. 214; p. 901.
- Cycle spring-frame, Motor-. F. Mackey. No. 1,142,344; June 8; Gaz. vol. 215; p. 479.
- Cycle spring, Motor-. C. M. A. Rosendahl. No. 1,135,927; Apr. 13; Gaz. vol. 213; p. 694.
- Cycle sprocket-guard. A. O. Davis. No. 1,136,411; Apr. 20; Gaz. vol. 213; p. 908.
- Cycle-stand. A. Pava. No. 1,156,369; Oct. 12; Gaz. vol. 219; p. 338.
- Cycle stand, Motor-. F. W. Cooper and A. R. Evered. No. 1,123,490; Jan. 5; Gaz. vol. 210; p. 100.
- Cycle stand, Motor-. E. H. Foster. No. 1,160,397; Nov. 16; Gaz. vol. 220; p. 783.
- Cycle stand, Motor-. J. M. Nelson. No. 1,134,893; Apr. 6; Gaz. vol. 213; p. 290.
- Cycle stand, Motor-. H. Vermeer. No. 1,156,567; Oct. 12; Gaz. vol. 219; p. 458.
- Cycle stand, Motor-. H. Vermeer. No. 1,156,568; Oct. 12; Gaz. vol. 219; p. 458.
- Cycle supplementary seat and carrier, Motor-. F. P. Fentress. No. 1,144,646; June 29; Gaz. vol. 215; p. 1370.
- Cycle support, Motor-. W. M. Conover. No. 1,124,109; Jan. 5; Gaz. vol. 210; p. 309.
- Cycle, Water-. J. Jones. No. 1,138,571; May 4; Gaz. vol. 214; p. 296.
- Cycles and like machines, Spring-frame for motor-. S. Whiting. No. 1,154,821; Sept. 28; Gaz. vol. 218; p. 960.
- Cycles and like machines, Spring front fork for motor-. S. Whiting. No. 1,155,458; Oct. 5; Gaz. vol. 219; p. 46.
- Cycles and the like, Adjustable support for motor-. J. C. Pinto. No. 1,143,780; June 22; Gaz. vol. 215; p. 1042.
- Cycles and the like, Means for regulating the tension on the driving-belts of motor-. G. Greer and M. Carney. No. 1,141,539; June 1; Gaz. vol. 215; p. 162.
- Cycles and the like, Rear framing of motor-. G. F. Shimmmin. No. 1,157,431; Oct. 19; Gaz. vol. 219; p. 794.
- Cycles, Auxiliary car for motor-. G. Havenstein. No. 1,145,682; July 6; Gaz. vol. 216; p. 246.
- Cycles, Back-rest for motor-. J. P. Johnson. No. 1,139,184; May 11; Gaz. vol. 214; p. 554.
- Cycles, Balancing attachment for motor-. R. F. Bryant. No. 1,154,089; Sept. 21; Gaz. vol. 218; p. 681.
- Cycles, Bracket for supporting the prestolite-tanks on motor-. G. A. Leonard. No. 1,124,924; Jan. 12; Gaz. vol. 210; p. 649.
- Cycles, Foot steering attachment for motor-. J. H. Nordin. No. 1,132,872; Mar. 23; Gaz. vol. 212; p. 1190.
- Cycles, motor-cycles, and the like, Spring-fork for. G. F. Shimmmin. No. 1,166,156; Dec. 28; Gaz. vol. 221; p. 1323.
- Cycles or like vehicles, Mud-guard support for motor-. F. J. Cornell. No. 1,144,463; June 29; Gaz. vol. 215; p. 1309.
- Cycles, Resilient rear-wheel fork for motor-. J. E. McLeod. No. 1,147,415; July 20; Gaz. vol. 216; p. 895.
- Cycles, Side-car attachment for motor-. J. R. Bruce. No. 1,130,061; Mar. 2; Gaz. vol. 212; p. 77.
- Cycles, Side-car chassis for motor-. A. A. Scott. No. 1,125,743; Jan. 19; Gaz. vol. 210; p. 977.
- Cycles, Speed-indicating means for motor-. G. J. Gagne. No. 1,138,208; May 4; Gaz. vol. 214; p. 170.
- Cycles, Twin saddle attachment for motor-. R. G. Hanna. No. 1,154,308; Sept. 21; Gaz. vol. 218; p. 756.
- Cycles, Two-speed-transmission mechanism for motor-. G. J. Fergodo. No. 1,125,282; Jan. 19; Gaz. vol. 210; p. 813.
- Cycles, Variable-speed gearing for motor-. E. A. Black. No. 1,139,330; May 11; Gaz. vol. 214; p. 601.
- Cycloharmonograph. R. E. Moritz. No. 1,126,252; Jan. 26; Gaz. vol. 210; p. 1194.
- Cylinder-boring machine. C. S. Anderson. No. 1,152,590; Sept. 7; Gaz. vol. 218; p. 78.
- Cylinder-lock. E. Epstein. No. 1,135,998; Apr. 20; Gaz. vol. 213; p. 762.
- Cylinder-lock. N. B. Hurd. No. 1,141,463; June 1; Gaz. vol. 215; p. 135.
- Cylinder-lock. R. Schoell. No. 1,163,470; Dec. 7; Gaz. vol. 221; p. 257.
- Cylinder-rake. W. M. Bering. No. 1,144,992; July 6; Gaz. vol. 216; p. 4.
- Cylinder, Wood-treating. G. B. Shipley. No. 1,144,669; June 29; Gaz. vol. 215; p. 1378.
- Cylinders, Making bilged. W. C. Winfield. No. 1,151,984; Aug. 31; Gaz. vol. 217; p. 1496.
- Cylinders of sheet metal, Machine for cutting and crimping. C. H. Phinney. No. 1,130,677; Mar. 2; Gaz. vol. 212; p. 292.
- Cylindrical can. P. I. Andrews. No. 1,166,168; Dec. 28; Gaz. vol. 221; p. 1327.
- Cystoscope. J. London. No. 1,150,214; Aug. 17; Gaz. vol. 217; p. 783.
- Cystoscope. R. H. Wappler. No. 1,127,948; Feb. 9; Gaz. vol. 211; p. 492.
- Dairy-register. R. L. Lachapelle. No. 1,134,873; Apr. 6; Gaz. vol. 213; p. 284.
- Dam apparatus for irrigation-ditches. F. E. Mendenhall and W. G. Erskine. No. 1,129,703; Feb. 23; Gaz. vol. 211; p. 1185.
- Dam, Automatic. W. L. Marshall. No. 1,128,891; Feb. 16; Gaz. vol. 211; p. 867.
- Dam for canal-locks, Constant-level-controlling. F. A. Rodriguez. No. 1,158,295; Oct. 26; Gaz. vol. 219; p. 1157.
- Dam-spillways, Power mechanism for. J. M. Maher. No. 1,137,156; Apr. 27; Gaz. vol. 213; p. 1211.
- Dams, Building. O. Wartemann. No. 1,133,768; Mar. 30; Gaz. vol. 212; p. 1547.
- Dampener, Seam-. F. C. Barnes. No. 1,134,434; Apr. 6; Gaz. vol. 213; p. 128.
- Dampener. C. M. Brown. No. 1,136,209; Apr. 20; Gaz. vol. 213; p. 835.
- Dampener. L. L. Brown and C. H. Patek. No. 1,140,871; May 25; Gaz. vol. 214; p. 1215.
- Dampener. O. M. Daugherty. No. 1,136,212; Apr. 20; Gaz. vol. 213; p. 836.
- Dampener. H. Deichman. No. 1,159,363; Nov. 9; Gaz. vol. 220; p. 363.
- Dampener. C. M. Jensen. No. 1,163,929; Dec. 14; Gaz. vol. 221; p. 464.
- Dampener. F. D. Leighton and F. H. Drake. No. 1,142,894; June 15; Gaz. vol. 215; p. 710.
- Dampener. H. G. Thompson. No. 1,144,971; June 29; Gaz. vol. 215; p. 1483.
- Dampener. C. M. Tyler. No. 1,147,201; July 20; Gaz. vol. 216; p. 820.
- Dampener and air-check, Combined. C. S. Hood. No. 1,125,536; Jan. 19; Gaz. vol. 210; p. 902.
- Dampener and draft-regulator for furnaces. S. B. Waters. No. 1,163,385; Dec. 7; Gaz. vol. 221; p. 227.
- Dampener, Automatic. A. W. Arnold. No. 1,133,214; Mar. 23; Gaz. vol. 212; p. 1313.
- Dampener, Automatic. J. W. Blood. No. 1,135,568; Apr. 13; Gaz. vol. 213; p. 569.
- Dampener, Automatic. E. Johnsgaard. No. 1,162,239; Nov. 30; Gaz. vol. 220; p. 1525.
- Dampener, Automatic. J. V. Kammers and J. H. Brophy. No. 1,123,749; Jan. 5; Gaz. vol. 210; p. 188.
- Dampener, Automatic stove. T. Meador. No. 1,143,422; June 15; Gaz. vol. 215; p. 897.
- Dampener-controlling apparatus. D. Belden. No. 1,154,600; Sept. 28; Gaz. vol. 218; p. 884.
- Dampener-controlling mechanism. J. A. Collin. No. 1,142,553; June 8; Gaz. vol. 215; p. 553.
- Dampener-controlling mechanism. H. Wilgus. No. 1,137,369; Apr. 27; Gaz. vol. 213; p. 1289.
- Dampener for heater-pipes, Heat-controlled. D. S. Watson. No. 1,125,416; Jan. 19; Gaz. vol. 210; p. 862.
- Dampener for locomotive smoke-boxes, Draft-regulating. H. C. Woodbridge. No. 1,124,377; Jan. 12; Gaz. vol. 210; p. 453.
- Dampener for stove and furnace flues. A. Nelson. No. 1,165,115; Dec. 21; Gaz. vol. 221; p. 919.
- Dampener for stoves, Automatic dust-. S. V. Reeves. No. 1,156,930; Oct. 19; Gaz. vol. 219; p. 614.
- Dampener-regulating mechanism. J. M. Beech. No. 1,127,954; Feb. 9; Gaz. vol. 211; p. 494.
- Dampener-regulator. W. M. Fulton. No. 1,153,214; Sept. 14; Gaz. vol. 218; p. 337.
- Dampener-regulator. H. Munzer. No. 1,148,612; Aug. 3; Gaz. vol. 217; p. 47.
- Dampener-regulator mechanism for steam-pressure apparatus. J. L. Kimball. No. 1,155,822; Oct. 5; Gaz. vol. 219; p. 174.
- Dampener-regulator relief-valve, gage, and alarm, Combined. L. A. Cherry. No. 1,148,755; Aug. 3; Gaz. vol. 217; p. 98.
- Dampener, Stove-. C. A. Massing. No. 1,146,807; July 20; Gaz. vol. 216; p. 681.
- Dampener, Stove-. G. Y. Parlier. No. 1,126,652; Jan. 26; Gaz. vol. 210; p. 1338.
- Dampers, Thermostatic automatic regulator for. J. A. Bunch. No. 1,125,810; Jan. 19; Gaz. vol. 210; p. 1001.
- Damping-machine. W. S. Eaton. No. 1,138,095; May 4; Gaz. vol. 214; p. 132.
- Damping-machine. W. H. Smith and B. McHugh. No. 1,124,346; Jan. 12; Gaz. vol. 210; p. 442.
- Dandy-roll. J. R. Sinclair. No. 1,140,856; May 25; Gaz. vol. 214; p. 1210.
- Dandy-roll. P. S. Sinclair. No. 1,147,900; July 27; Gaz. vol. 216; p. 1091.

Alphabetical list of inventions—Continued.

- Darning machine, Mantle. S. Cohn. No. 1,161,847; Nov. 30; Gaz. vol. 220; p. 1387.
- Dart or arrow. M. E. Winans. No. 1,162,200; Nov. 30; Gaz. vol. 220; p. 1512.
- Dash-light, trouble-light, and cigar-lighter, Combined. W. H. Collier. No. 1,144,172; June 22; Gaz. vol. 215; p. 1181.
- Dash-pot. R. E. Benner. No. 1,150,925; Aug. 24; Gaz. vol. 217; p. 1087.
- Dash-pot. H. W. Cheney. No. 1,130,375; Mar. 2; Gaz. vol. 212; p. 186.
- Dash-pot. T. Hughes. No. 1,129,394; Feb. 23; Gaz. vol. 211; p. 1081.
- Dash-pot. W. C. Pritchard. No. 1,128,041; Feb. 9; Gaz. vol. 211; p. 524.
- Dash-pot. L. J. Tetlow. No. 1,149,869; Aug. 10; Gaz. vol. 217; p. 597.
- Dash-pot accelerating device. D. Larson. No. 1,159,590; Nov. 9; Gaz. vol. 220; p. 444.
- Date-finder and calendar. J. H. Johnston. No. 1,153,926; Sept. 21; Gaz. vol. 218; p. 625.
- Dating-machine. D. C. Hughes. No. 1,152,637; Sept. 7; Gaz. vol. 218; p. 95.
- Davenport. L. C. Phenix. No. 1,142,053; June 8; Gaz. vol. 215; p. 376.
- Davenport. G. A. Stackhouse. No. 1,165,030; Dec. 21; Gaz. vol. 221; p. 888.
- Davenport. Folding-seat. P. E. Kroehler. No. 1,145,071; July 6; Gaz. vol. 216; p. 35.
- Davenport. Revolving-seat. R. R. Miller. No. 1,143,848; June 22; Gaz. vol. 215; p. 1066.
- Davenport. Revolving-seat. W. F. Seng and J. Kaltcok. No. 1,135,930; Apr. 13; Gaz. vol. 213; p. 695.
- Davit. J. Cameron. No. 1,162,132; Nov. 30; Gaz. vol. 220; p. 1488.
- Davit. R. De Lan. No. 1,163,977; Dec. 14; Gaz. vol. 221; p. 479.
- Davit-fall attachment. F. W. Krogh. No. 1,165,183; Dec. 21; Gaz. vol. 221; p. 943.
- Davit for raising and lowering ships' boats. H. W. Broady. No. 1,128,845; Feb. 16; Gaz. vol. 211; p. 851.
- Davits apparatus, Duplex. B. Glanese. No. 1,134,118; Apr. 6; Gaz. vol. 213; p. 12.
- Dead-ends, Device for overcoming. W. H. Walker and A. L. Kichline. No. 1,125,225; Jan. 19; Gaz. vol. 210; p. 792.
- Decarbonizing compound. R. D. Price. No. 1,148,403; July 27; Gaz. vol. 216; p. 1269.
- Decoloring agent. G. A. Kerr. No. 1,163,827; Dec. 14; Gaz. vol. 221; p. 429.
- Decolorizer, Making a. F. W. Spanutius. No. 1,135,216; Apr. 13; Gaz. vol. 213; p. 446.
- Decorative support. T. C. Fisher, Sr. No. 1,134,834; Apr. 6; Gaz. vol. 213; p. 271.
- Decorticating fibrous plants, Machine for. W. J. Hollier. No. 1,127,439; Feb. 9; Gaz. vol. 211; p. 312.
- Decorticating fibrous plants, Machine for. W. J. Hollier. No. 1,155,730; Oct. 5; Gaz. vol. 219; p. 141.
- Decorticating fibrous plants, Machine for. W. J. Hollier. No. 1,157,780; Oct. 26; Gaz. vol. 219; p. 974.
- Decorticating machine, Fiber. O. Sheehan. No. 1,156,103; Oct. 12; Gaz. vol. 219; p. 297.
- Decoy. A. Koyen and F. B. Snyder. No. 1,157,627; Oct. 19; Gaz. vol. 219; p. 857.
- Defecator. M. B. Cresswell. No. 1,134,997; Apr. 13; Gaz. vol. 213; p. 371.
- Deflector. F. J. Norton. No. 1,166,244; Dec. 28; Gaz. vol. 221; p. 1356.
- Dehorner. D. E. Weaver. No. 1,141,025; May 25; Gaz. vol. 214; p. 1268.
- Dehumidizer. G. O'Brien. No. 1,143,061; June 15; Gaz. vol. 215; p. 769.
- Deinking. O. C. Winestock. No. 1,138,596; May 4; Gaz. vol. 214; p. 304.
- Deinking apparatus. O. C. Winestock. No. 1,138,597; May 4; Gaz. vol. 214; p. 305.
- Delivering material from a container, Device for. A. Clemens. No. 1,131,117; Mar. 9; Gaz. vol. 212; p. 477.
- Delivery and counting mechanism. M. Dünneber and A. Winkler. No. 1,153,294; Sept. 14; Gaz. vol. 218; p. 365.
- Delivery-box. B. Siegel. No. 1,126,893; Feb. 2; Gaz. vol. 211; p. 80.
- Delivery mechanism. -R. A. Freeman. No. 1,164,802; Dec. 21; Gaz. vol. 221; p. 808.
- Delivery mechanism. N. W. Harrison. No. 1,161,309; Nov. 23; Gaz. vol. 220; p. 1155.
- Delivery mechanism. I. F. Niles. No. 1,149,214; Aug. 10; Gaz. vol. 217; p. 361.
- Delivery mechanism. F. M. Spurr. No. 1,135,068; Apr. 13; Gaz. vol. 213; p. 396.
- Delivery-receptacle, Safety. E. P. Wolf. No. 1,155,778; Oct. 5; Gaz. vol. 219; p. 157.
- Demagnetization of tools working magnetically-mounted work-pieces. J. Bing. No. 1,136,646; Apr. 20; Gaz. vol. 213; p. 990.
- Demand apparatus. J. T. Dempster. No. 1,139,169; May 11; Gaz. vol. 214; p. 548.
- Demand apparatus. W. E. Porter. No. 1,138,787; May 11; Gaz. vol. 214; p. 413.
- Demand apparatus. L. T. Robinson and J. T. Dempster. No. 1,139,466; May 11; Gaz. vol. 214; p. 651.
- Demand-indicator. W. E. Porter. No. 1,138,785; May 11; Gaz. vol. 214; p. 412.
- Demand-indicator. W. E. Porter. No. 1,138,786; May 11; Gaz. vol. 214; p. 412.
- Demijohn-case. B. Boley. No. 1,162,444; Nov. 30; Gaz. vol. 220; p. 1595.
- Demonstrator, Compensation-balance. E. A. Marsh. No. 1,149,847; Aug. 10; Gaz. vol. 217; p. 591.
- Demountable wheel. T. I. Duffy. No. 1,125,498; Jan. 19; Gaz. vol. 210; p. 889.
- Demountable wheel. J. B. Kelly. No. 1,144,136; June 22; Gaz. vol. 215; p. 1168.
- Demountable wheel. J. T. Wade. No. 1,143,870; June 22; Gaz. vol. 215; p. 1073.
- Demounting device. W. N. Booth. No. 1,146,301; July 13; Gaz. vol. 216; p. 483.
- Density and freezing-point indicator, Compound. D. Benjamin. No. 1,159,889; Nov. 9; Gaz. vol. 220; p. 553.
- Dental amalgam. T. J. Davis. No. 1,164,997; Dec. 21; Gaz. vol. 221; p. 877.
- Dental appliance. T. Craig, Jr. No. 1,137,585; Apr. 27; Gaz. vol. 213; p. 1362.
- Dental articulator. H. F. Smith and H. S. Dano. No. 1,135,629; Apr. 13; Gaz. vol. 213; p. 591.
- Dental articulator. G. B. Snow. No. 1,160,114; Nov. 9; Gaz. vol. 220; p. 632.
- Dental bite-tray. M. E. Sanders. No. 1,134,017; Mar. 30; Gaz. vol. 212; p. 1630.
- Dental bridge. G. W. Todd and C. D. Mendlik. No. 1,136,184; Apr. 20; Gaz. vol. 213; p. 825.
- Dental bridge and crown. F. H. Skinner. No. 1,140,537; May 25; Gaz. vol. 214; p. 1102.
- Dental bridge and crown plates, Anchorage for. F. H. Skinner. No. 1,140,538; May 25; Gaz. vol. 214; p. 1102.
- Dental bridge attachment, Removable. F. H. Skinner. No. 1,140,539; May 25; Gaz. vol. 214; p. 1102.
- Dental bridges and the like, Instrument for recementing. E. H. Crawford. No. 1,139,017; May 11; Gaz. vol. 214; p. 495.
- Dental -broach -cutting machine. J. F. Hardy. No. 1,124,728; Jan. 12; Gaz. vol. 210; p. 580.
- Dental broaches, Making. W. W. Fowler. No. 1,160,706; Nov. 16; Gaz. vol. 220; p. 897.
- Dental casting apparatus. W. A. Adams. No. 1,124,099; Jan. 5; Gaz. vol. 210; p. 306.
- Dental casting apparatus, Suction apparatus for. E. L. Chott. No. 1,142,023; June 8; Gaz. vol. 215; p. 367.
- Dental chair. F. Ritter. No. 1,137,903; May 4; Gaz. vol. 214; p. 62.
- Dental chair. F. Ritter. No. 1,159,996; Nov. 2; Gaz. vol. 220; p. 591.
- Dental chair. H. E. Weber. No. 1,157,351; Oct. 19; Gaz. vol. 219; p. 764.
- Dental chairs, Adjustable operator's seat for. J. B. Bardin. No. 1,155,541; Oct. 5; Gaz. vol. 219; p. 76.
- Dental chip-blower. F. S. Yoder. No. 1,166,033; Dec. 28; Gaz. vol. 221; p. 1276.
- Dental crowns and molar projections, Apparatus for making. B. Proskauer and A. Irrgang. No. 1,143,432; June 15; Gaz. vol. 215; p. 900.
- Dental disk -cutter, Selective. F. O. Jaques, Jr. No. 1,128,450; Feb. 16; Gaz. vol. 211; p. 714.
- Dental-engine tool-guard. F. F. Fischer and C. M. Kaletsky. No. 1,134,833; Apr. 6; Gaz. vol. 213; p. 271.
- Dental engines, Latch for drill-heads of handpieces of. R. C. Krebs. No. 1,142,443; June 8; Gaz. vol. 215; p. 516.
- Dental face-bow. G. B. Snow. No. 1,154,942; Sept. 28; Gaz. vol. 218; p. 1001.
- Dental facings, Replacing broken. J. K. Bishop. No. 1,147,597; July 20; Gaz. vol. 216; p. 958.
- Dental filling materials, Introduction and retention of. C. H. Frink. No. 1,151,352; Aug. 24; Gaz. vol. 217; p. 1231.
- Dental-flask-closing device. R. Booty. No. 1,165,937; Dec. 28; Gaz. vol. 221; p. 1243.
- Dental floss-holder. C. B. Bowling. No. 1,158,890; Nov. 2; Gaz. vol. 220; p. 169.
- Dental floss-holder. I. W. Litchfield. No. 1,152,825; Sept. 7; Gaz. vol. 218; p. 164.
- Dental fulcrum-forceps. J. F. Turner. No. 1,147,580; July 20; Gaz. vol. 216; p. 952.
- Dental grinding-wheel and mandrel therefor. E. P. Binford. No. 1,162,970; Dec. 7; Gaz. vol. 221; p. 82.
- Dental handpiece. W. Wood, Jr. No. 1,160,805; Nov. 16; Gaz. vol. 220; p. 930.
- Dental handpiece connecting-bracket. O. C. Samphere. No. 1,152,122; Aug. 31; Gaz. vol. 217; p. 1544.
- Dental handpieces, Hygienic protector for. L. L. Martin and R. A. McTavish. No. 1,162,941; Dec. 7; Gaz. vol. 221; p. 71.
- Dental impression-tray. R. M. Kerr. No. 1,127,635; Feb. 9; Gaz. vol. 211; p. 378.
- Dental inlay-holder. C. W. Millar. No. 1,124,498; Jan. 12; Gaz. vol. 210; p. 497.
- Dental instrument. G. H. Bretsch. No. 1,152,281; Aug. 31; Gaz. vol. 217; p. 1597.
- Dental instrument. H. M. Brock. No. 1,136,649; Apr. 20; Gaz. vol. 213; p. 991.
- Dental instrument. H. E. S. Chayes. No. 1,136,100; Apr. 20; Gaz. vol. 213; p. 795.

Alphabetical list of inventions—Continued.

- Dental instrument. T. D. Craig. No. 1,132,565; Mar. 23; Gaz. vol. 212; p. 1076.
- Dental instrument. H. M. Crawford. No. 1,138,631; May 11; Gaz. vol. 214; p. 355.
- Dental instrument, Combination. W. E. Allen. No. 1,143,927; June 22; Gaz. vol. 215; p. 1092.
- Dental jig-polisher. W. L. Hunter. No. 1,151,361; Aug. 24; Gaz. vol. 217; p. 1234.
- Dental mandrel. S. E. Smith. No. 1,133,409; Mar. 30; Gaz. vol. 212; p. 1420.
- Dental marking and spacing tool. W. L. Mason. No. 1,134,692; Apr. 6; Gaz. vol. 213; p. 222.
- Dental matrix for approximal fillings. J. G. Hollingsworth. No. 1,133,379; Mar. 30; Gaz. vol. 212; p. 1408.
- Dental matrix-retainer. C. J. Emerson. No. 1,151,252; Aug. 24; Gaz. vol. 217; p. 1199.
- Dental matrix-retainer. C. J. Emerson. No. 1,151,253; Aug. 24; Gaz. vol. 217; p. 1199.
- Dental models, Manufacture of. W. Nielsen. No. 1,152,964; Sept. 7; Gaz. vol. 218; p. 215.
- Dental molding apparatus. J. Burns. No. 1,146,550; July 13; Gaz. vol. 216; p. 573.
- Dental plate-holder. H. P. Boos. No. 1,140,566; May 25; Gaz. vol. 214; p. 1110.
- Dental plate-retainer. J. S. Naulder. No. 1,133,570; Mar. 30; Gaz. vol. 212; p. 1477.
- Dental plate with rugæ on the lingual side. G. A. Critcherson. No. 1,129,335; Feb. 23; Gaz. vol. 211; p. 1059.
- Dental plates, Casting. J. R. Cruickshank. No. 1,150,102; Aug. 17; Gaz. vol. 217; p. 743.
- Dental pliers. E. H. Angle. No. 1,163,196; Dec. 7; Gaz. vol. 221; p. 162.
- Dental polishing device. W. L. Hough. No. 1,138,479; May 4; Gaz. vol. 214; p. 267.
- Dental prop and mirror, Combined. J. E. Mayer. No. 1,157,565; Oct. 19; Gaz. vol. 219; p. 837.
- Dental saliva-tube. A. B. Cosad and C. F. Wise. No. 1,124,299; Jan. 12; Gaz. vol. 210; p. 426.
- Dental splint. W. S. Kelly. No. 1,146,264; July 13; Gaz. vol. 216; p. 472.
- Dental stool. C. M. Hedman. No. 1,164,715; Dec. 21; Gaz. vol. 221; p. 777.
- Dental syringe. M. Payne. No. 1,150,879; Aug. 24; Gaz. vol. 217; p. 1072.
- Dental tool. C. C. Ball. No. 1,147,594; July 20; Gaz. vol. 216; p. 957.
- Dental tool. C. M. Carr. No. 1,138,355; May 4; Gaz. vol. 214; p. 224.
- Dental tool. E. L. Chott. No. 1,142,024; June 8; Gaz. vol. 215; p. 367.
- Dental tool. H. G. Dressel. No. 1,130,716; Mar. 9; Gaz. vol. 212; p. 340.
- Dental tool. M. Maier. No. 1,125,576; Jan. 19; Gaz. vol. 210; p. 916.
- Dental tool. F. E. Perkins. No. 1,125,168; Jan. 19; Gaz. vol. 210; p. 772.
- Dental tool. F. W. Trabold and J. T. Knox. No. 1,158,872; Nov. 2; Gaz. vol. 220; p. 162.
- Dental tray. T. L. Riley. No. 1,139,581; May 18; Gaz. vol. 214; p. 727.
- Dental vulcanizer attachment. T. T. Cater. No. 1,157,759; Oct. 26; Gaz. vol. 219; p. 969.
- Dental vulcanizing-flask. E. Hewes. No. 1,152,317; Aug. 31; Gaz. vol. 217; p. 1610.
- Dental work, Impression-holder for. A. L. Dearth. No. 1,140,363; May 25; Gaz. vol. 214; p. 1036.
- Dentifrice. W. M. Ruthrauff. No. 1,133,250; Mar. 23; Gaz. vol. 212; p. 1325.
- Dentifrice-containers. Brush-guide for. J. Rebrovich. No. 1,135,922; Apr. 13; Gaz. vol. 213; p. 692.
- Dentist's anvil. A. S. Levy. No. 1,151,200; Aug. 24; Gaz. vol. 217; p. 1181.
- Dentist's vulcanizing-flask. W. E. Pappert. No. 1,145,433; July 6; Gaz. vol. 216; p. 159.
- Denture and removable bridge, Partial. W. L. Hough. No. 1,128,876; Feb. 16; Gaz. vol. 211; p. 861.
- Denture, Artificial. W. J. Curry. No. 1,128,664; Feb. 16; Gaz. vol. 211; p. 788.
- Denture, Artificial. A. E. J. Gregg. No. 1,153,486; Sept. 14; Gaz. vol. 218; p. 436.
- Denture-plates, Rugæ-mold for. G. A. Critcherson. No. 1,129,336; Feb. 23; Gaz. vol. 211; p. 1059.
- Deodorizing device. G. H. Albertson. No. 1,130,681; Mar. 2; Gaz. vol. 212; p. 293.
- Deodorizing device. W. H. Sartain. No. 1,140,533; May 25; Gaz. vol. 214; p. 1101.
- Depositing-machine. F. Westerman. (Reissue.) No. 13,999; Oct. 19; Gaz. vol. 219; p. 882.
- Depth-indicator, Pneumatic. H. S. Parks. No. 1,131,412; Mar. 9; Gaz. vol. 212; p. 579.
- Depurating process and apparatus. F. E. Coombs. No. 1,156,060; Oct. 12; Gaz. vol. 219; p. 282.
- Depurator and surgical instrument, Combined. W. T. McFarland. No. 1,138,881; May 11; Gaz. vol. 214; p. 446.
- Derailing device. E. Rock. No. 1,143,439; June 15; Gaz. vol. 215; p. 903.
- Derailment-guard. M. Hascasák. No. 1,123,284; Jan. 5; Gaz. vol. 210; p. 28.
- Derrick. H. Auchu. No. 1,141,919; June 8; Gaz. vol. 215; p. 330.
- Derrick. H. Auchu. No. 1,143,019; June 15; Gaz. vol. 215; p. 754.
- Derrick. D. F. Hogan. No. 1,135,799; Apr. 13; Gaz. vol. 213; p. 650.
- Derrick. W. O'Brien. No. 1,160,948; Nov. 16; Gaz. vol. 220; p. 980.
- Derrick. D. T. Phillips. No. 1,143,314; June 15; Gaz. vol. 215; p. 858.
- Derrick. M. J. Sasgen. No. 1,130,766; Mar. 9; Gaz. vol. 212; p. 357.
- Derrick. M. J. Sasgen. No. 1,156,558; Oct. 12; Gaz. vol. 219; p. 454.
- Derrick. F. O. Swanburg. No. 1,164,679; Dec. 21; Gaz. vol. 221; p. 766.
- Derrick apparatus. T. B. Walston. No. 1,154,460; Sept. 21; Gaz. vol. 218; p. 808.
- Derrick, Blower-pipe-assembling. T. Muldowney. No. 1,157,248; Oct. 19; Gaz. vol. 219; p. 729.
- Derrick-clamp. F. Kinney. No. 1,127,450; Feb. 9; Gaz. vol. 211; p. 316.
- Derrick-crane in connection with motor-trucks, Movable. S. Zied. No. 1,165,483; Dec. 28; Gaz. vol. 221; p. 1085.
- Derrick for hay-wagons. E. Miksch. No. 1,165,015; Dec. 21; Gaz. vol. 221; p. 883.
- Derrick-fork. G. E. Cruson. No. 1,153,764; Sept. 14; Gaz. vol. 218; p. 532.
- Derricks, Pulling attachment for oil-well. C. H. Overly and O. A. Thompson. No. 1,162,392; Nov. 30; Gaz. vol. 220; p. 1577.
- Derricks, Safety device for. J. Farmer. No. 1,165,583; Dec. 28; Gaz. vol. 221; p. 1119.
- Derricks, Splice for oil-. P. Foukes. No. 1,146,756; July 13; Gaz. vol. 216; p. 643.
- Desiccating. S. H. Bunnell. No. 1,149,627; Aug. 10; Gaz. vol. 217; p. 512.
- Desiccating. I. S. and O. E. Merrell. No. 1,141,879; June 1; Gaz. vol. 215; p. 276.
- Desiccating apparatus. S. H. Bunnell. No. 1,141,102; June 1; Gaz. vol. 215; p. 5.
- Desiccating apparatus. W. R. Clayton. No. 1,130,890; Mar. 9; Gaz. vol. 212; p. 400.
- Desiccating apparatus. E. E. Eldredge. No. 1,134,731; Apr. 6; Gaz. vol. 213; p. 237.
- Desiccating apparatus. J. C. MacLachlan. No. 1,138,769; May 11; Gaz. vol. 214; p. 405.
- Desiccating food products. D. J. Hauss. No. 1,163,339; Dec. 7; Gaz. vol. 221; p. 212.
- Desiccating human corpses, Apparatus for. F. Wetterauer and G. A. Wegner. No. 1,127,140; Feb. 2; Gaz. vol. 211; p. 168.
- Desiccating liquid substances, Method of and apparatus for. C. E. Gray. No. 1,157,935; Oct. 26; Gaz. vol. 219; p. 1030.
- Desiccating, Method of. I. S. Merrell. No. 1,133,051; Mar. 23; Gaz. vol. 212; p. 1257.
- Desiccation. G. A. Krause. No. 1,166,225; Dec. 28; Gaz. vol. 221; p. 1349.
- Designs, Machine for transferring. A. H. Motley, Jr. No. 1,128,351; Feb. 16; Gaz. vol. 211; p. 681.
- Designs, Producing shaded effects in. F. Knowles. No. 1,143,407; June 15; Gaz. vol. 215; p. 892.
- Desk. F. B. Stevens. No. 1,156,443; Oct. 12; Gaz. vol. 219; p. 414.
- Desk. W. Wills. No. 1,139,943; May 18; Gaz. vol. 214; p. 855.
- Desk and file-cabinet, Combined writing-. S. W. Cooper. No. 1,128,415; Feb. 16; Gaz. vol. 211; p. 702.
- Desk and filing-cabinet, Combination. J. W. Harris. No. 1,158,493; Nov. 2; Gaz. vol. 220; p. 28.
- Desk and seat, Combination adjustable hygienic. A. C. Armstrong. No. 1,142,657; June 8; Gaz. vol. 215; p. 588.
- Desk and seat, School. W. P. Getchell. No. 1,133,797; Mar. 30; Gaz. vol. 212; p. 1558.
- Desk and the like, Office-. J. Dunne. No. 1,143,259; June 15; Gaz. vol. 215; p. 839.
- Desk, Knockdown. R. H. Browne. No. 1,135,975; Apr. 13; Gaz. vol. 213; p. 712.
- Desk, Portable. D. C. Collier. No. 1,147,077; July 20; Gaz. vol. 216; p. 776.
- Desk, School-. G. H. Heitmuller. No. 1,131,376; Mar. 9; Gaz. vol. 212; p. 566.
- Desk-stand. C. G. Stoll. No. 1,126,120; Jan. 26; Gaz. vol. 210; p. 1145.
- Desk utensil, Office-. J. V. Washburne. No. 1,156,194; Oct. 12; Gaz. vol. 219; p. 327.
- Desk, Writing-. A. B. Matthews. No. 1,143,416; June 15; Gaz. vol. 215; p. 894.
- Desks and the like, Locking device for. C. T. Westmoreland. No. 1,139,939; May 18; Gaz. vol. 214; p. 853.
- Desks and the like, Locking device for. C. T. Westmoreland. No. 1,139,940; May 18; Gaz. vol. 214; p. 854.
- Desks and the like, Reference device for. E. R. Probert. No. 1,156,812; Oct. 12; Gaz. vol. 219; p. 541.
- Desks, chairs, &c., Supporting structure for. G. M. Huntley. No. 1,156,232; Oct. 12; Gaz. vol. 219; p. 339.
- Despatch or conveyer system. C. S. Jennings. No. 1,143,829; June 22; Gaz. vol. 215; p. 1059.
- Despatch system. C. P. Hidden. No. 1,142,429; June 8; Gaz. vol. 215; p. 510.

Alphabetical list of inventions—Continued.

- Detachable-blade knife. M. Parker. No. 1,139,796; May 18; Gaz. vol. 214; p. 804.
- Detachable handle. S. A. Duncan. No. 1,140,967; May 25; Gaz. vol. 214; p. 1250.
- Detachable handle. A. V. Young. No. 1,133,420; Mar. 30; Gaz. vol. 212; p. 1422.
- Detachable handle for household and other articles. A. R. McNeill and M. B. Parrish. No. 1,147,332; July 20; Gaz. vol. 216; p. 863.
- Detachable wheel. J. V. Pugh. No. 1,145,701; July 6; Gaz. vol. 216; p. 254.
- Detachable wheel. J. V. Pugh and F. Pountney. No. 1,145,702; July 6; Gaz. vol. 216; p. 255.
- Detectometer. A. G. Carlson. No. 1,155,338; Oct. 5; Gaz. vol. 219; p. 5.
- Detector: *See—*
- Time-detector.
- Detector. A. K. Sloan, Jr. No. 1,152,444; Sept. 7; Gaz. vol. 218; p. 22.
- Detector. F. B. Turner. No. 1,128,552; Feb. 16; Gaz. vol. 211; p. 750.
- Detector-bar. J. Reid. No. 1,157,726; Oct. 26; Gaz. vol. 219; p. 958.
- Detergent for scouring and dyeing and making same, Alkali-free. J. Barrington. No. 1,139,326; May 11; Gaz. vol. 214; p. 599.
- Detinning, Electrolytic process of. H. Goldschmidt. No. 1,160,400; Nov. 16; Gaz. vol. 220; p. 734.
- Detinning system, Electrolytic. H. Goldschmidt. No. 1,160,401; Nov. 16; Gaz. vol. 220; p. 734.
- Detinning tin scrap, boxes, or the like, Apparatus for. H. Goldschmidt. No. 1,139,410; May 11; Gaz. vol. 214; p. 631.
- Detonating composition. W. L. Main. No. 1,147,958; July 27; Gaz. vol. 216; p. 1111.
- Detonating mechanism for night guards or alarms. E. C. Winchester. No. 1,159,458; Nov. 9; Gaz. vol. 220; p. 399.
- Detonator-casings, Charge for. L. Wöhler. No. 1,128,394; Feb. 16; Gaz. vol. 211; p. 694.
- Detritus from liquids, Separating. J. M. Davidson. No. 1,138,634; May 11; Gaz. vol. 214; p. 356.
- Developing and fixing tanks, Combined. J. S. Wilson. No. 1,158,879; Nov. 2; Gaz. vol. 220; p. 165.
- Developing apparatus. G. C. Beidler. No. 1,160,240; Nov. 16; Gaz. vol. 220; p. 728.
- Developing apparatus. B. J. Nasief. No. 1,159,700; Nov. 9; Gaz. vol. 220; p. 484.
- Developing-machine. C. K. Neshime and S. J. Rognlie. No. 1,136,703; Apr. 20; Gaz. vol. 213; p. 1011.
- Developing-tank. G. W. Betz. No. 1,131,817; Mar. 16; Gaz. vol. 212; p. 757.
- Developing-tank. R. A. Woodman. No. 1,164,773; Dec. 21; Gaz. vol. 221; p. 798.
- Dextrin, Moistening and cooling. H. Wulkan. No. 1,139,621; May 18; Gaz. vol. 214; p. 741.
- Diacyldiaminophenol compounds. D. Maron. No. 1,159,403; Nov. 9; Gaz. vol. 220; p. 378.
- Diagnostic and treating table. O. Smith. No. 1,143,651; June 22; Gaz. vol. 215; p. 999.
- Dial-disks, Method of and apparatus for making. C. F. Semon. No. 1,147,979; July 27; Gaz. vol. 216; p. 1119.
- Dial test-indicator. F. Zhorik. No. 1,152,686; Sept. 7; Gaz. vol. 218; p. 113.
- Dial mechanism. Z. F. Candee. No. 1,136,891; Apr. 20; Gaz. vol. 213; p. 1077.
- Diamond-cutter's dop. L. Lang. No. 1,147,517; July 20; Gaz. vol. 216; p. 930.
- Diaper. J. D. Farkas. No. 1,133,945; Mar. 30; Gaz. vol. 212; p. 1608.
- Diaper-drying rack, Adjustable. H. W. Hayes. No. 1,134,045; Mar. 30; Gaz. vol. 212; p. 1641.
- Diaphragm. J. H. Kinealy. No. 1,150,606; Aug. 17; Gaz. vol. 217; p. 919.
- Diaphragm-actuating means. G. A. Inman. No. 1,159,387; Nov. 9; Gaz. vol. 220; p. 372.
- Diaphragm-covering. P. W. Hill. No. 1,146,622; July 13; Gaz. vol. 216; p. 598.
- Diaphragm, Mechanically-actuated. M. R. Hutchison. No. 1,147,866; July 27; Gaz. vol. 216; p. 1078.
- Diastase, Manufacture of. S. Fränkel. No. 1,129,387; Feb. 23; Gaz. vol. 211; p. 1078.
- Diastase preparations and making same. I. Pollak. No. 1,153,640; Sept. 14; Gaz. vol. 218; p. 490.
- Diastatic product and producing the same. J. Takamine. No. 1,148,938; Aug. 3; Gaz. vol. 217; p. 160.
- Dice-box. C. A. Son. No. 1,127,303; Feb. 2; Gaz. vol. 211; p. 223.
- Die: *See—*
- Axle-die.
- Brick-die.
- Brick-forming die.
- Clicking-die.
- Closing-die.
- Cotter-forming die.
- Cotter-making die.
- Cutting-die.
- Edging-die.
- Gripping and forging die.
- Insulator-die.
- Printing-die.
- Reversible die.
- Screw-cutting die.
- Self-opening die.
- Sole-cutting die.
- Threading-die.
- Tubing-die.
- Wire-drawing die.
- Die. G. Donaldson. No. 1,129,079; Feb. 23; Gaz. vol. 211; p. 964.
- Die. G. Kurschus. No. 1,163,933; Dec. 14; Gaz. vol. 221; p. 465.
- Die. O. A. Smith and B. F. Rindfleisch. No. 1,157,259; Oct. 19; Gaz. vol. 219; p. 733.
- Die. R. L. Wilcox. No. 1,147,994; July 27; Gaz. vol. 216; p. 1123.
- Die-block. W. R. Forsyth. No. 1,158,670; Nov. 2; Gaz. vol. 220; p. 93.
- Die-casting construction. J. Le May and M. M. House. No. 1,149,842; Aug. 10; Gaz. vol. 217; p. 589.
- Die-casting machine. J. Bate. No. 1,153,749; Sept. 14; Gaz. vol. 218; p. 528.
- Die-head. H. L. Fisher. No. 1,157,210; Oct. 19; Gaz. vol. 219; p. 714.
- Die-head. W. Shaw. No. 1,146,354; July 13; Gaz. vol. 216; p. 501.
- Die-head, Self-opening adjustable. W. H. Gates. No. 1,148,510; Aug. 3; Gaz. vol. 217; p. 9.
- Die-holder. J. M. Carpenter. No. 1,155,211; Sept. 28; Gaz. vol. 218; p. 1094.
- Die-plates, Making. W. R. Bardsley. No. 1,157,493; Oct. 19; Gaz. vol. 219; p. 814.
- Die-press. A. W. Roovers. No. 1,162,883; Dec. 7; Gaz. vol. 221; p. 51.
- Die-press. H. C. H. Walsh. No. 1,146,978; July 20; Gaz. vol. 216; p. 742.
- Die-stock. L. B. Curtis. No. 1,140,504; May 25; Gaz. vol. 214; p. 1089.
- Die-stock. J. C. Fletcher. No. 1,137,004; Apr. 27; Gaz. vol. 213; p. 1155.
- Die-stock. L. F. Hart. No. 1,143,960; June 22; Gaz. vol. 215; p. 1104.
- Die-stock. L. F. Hart. No. 1,146,871; July 20; Gaz. vol. 216; p. 703.
- Die-stock. E. A. Oakes. No. 1,154,424; Sept. 21; Gaz. vol. 218; p. 796.
- Die-stock. H. W. Oster. No. 1,128,034; Feb. 9; Gaz. vol. 211; p. 522.
- Die-stock. H. W. Oster. No. 1,150,449; Aug. 17; Gaz. vol. 217; p. 864.
- Die-stock. F. W. Whelpley. No. 1,158,016; Oct. 26; Gaz. vol. 219; p. 1059.
- Die-stock and tap-wrench. E. G. Reid. No. 1,148,406; July 27; Gaz. vol. 216; p. 1270.
- Die-stock, Self-lubricating. O. G. Larson. No. 1,137,496; Apr. 27; Gaz. vol. 213; p. 1332.
- Die-stocks, Reamer attachment for. W. S. Donaldson. No. 1,141,045; May 25; Gaz. vol. 214; p. 1275.
- Die-threading machine. W. H. Potter and J. E. Benson. No. 1,137,020; Apr. 27; Gaz. vol. 213; p. 1161.
- Dies. W. E. Sherbondy. No. 1,147,273; July 20; Gaz. vol. 216; p. 843.
- Dies, Forming. C. Sonneborn. No. 1,149,694; Aug. 10; Gaz. vol. 217; p. 536.
- Dies, Making. J. M. Lynch. No. 1,160,179; Nov. 16; Gaz. vol. 220; p. 708.
- Dies, Making. F. E. Wells. No. 1,125,784; Jan. 19; Gaz. vol. 210; p. 993.
- Dies, Means for cutting threading. W. A. Leonard. No. 1,137,408; Apr. 27; Gaz. vol. 213; p. 1303.
- Dies, Set of. H. G. Carlson. No. 1,142,782; June 8; Gaz. vol. 215; p. 631.
- Dies, Trimming. C. Sonneborn. No. 1,149,695; Aug. 10; Gaz. vol. 217; p. 536.
- Dieing-machine trimmer. G. B. Grover. No. 1,155,655; Oct. 5; Gaz. vol. 219; p. 114.
- Diesel engine, Two-cycle multiple-expansion. G. C. Davison. No. 1,138,933; May 11; Gaz. vol. 214; p. 465.
- Differential lock. G. W. Miller. No. 1,142,831; June 15; Gaz. vol. 215; p. 687.
- Diffusing apparatus. C. F. Blake. No. 1,144,525; June 29; Gaz. vol. 215; p. 1329.
- Digger: *See—*
- Clam-digger. Plant and tree digger.
- Grass-digger. Post-hole digger.
- Peanut-digger. Potato-digger.
- Peanut and potato digger.
- Digging-machine. D. A. Penedo. No. 1,154,545; Sept. 21; Gaz. vol. 218; p. 836.
- Digging-machine. C. G. von Post. No. 1,164,039; Dec. 14; Gaz. vol. 221; p. 502.
- Digging machine, Hole. A. W. Enstrom. No. 1,150,180; Aug. 17; Gaz. vol. 217; p. 771.
- Digging peanuts, potatoes, and the like, Machine for. W. H. Rice. No. 1,131,419; Mar. 9; Gaz. vol. 212; p. 582.
- Dihalogen paraffins, Manufacture of. F. E. Matthews and H. J. W. Bliss. No. 1,158,524; Nov. 2; Gaz. vol. 220; p. 41.
- Dining-table. E. G. Penny. No. 1,150,701; Aug. 17; Gaz. vol. 217; p. 952.
- Dipper-front. E. E. Vanderhoef and F. E. Johnson. No. 1,126,319; Jan. 26; Gaz. vol. 210; p. 1217.
- Dipper-handle spacer. C. B. King, C. B. Weston, and G. Holmes. No. 1,128,152; Feb. 9; Gaz. vol. 211; p. 563.
- Dipper-tooth. J. W. Harrell. No. 1,126,759; Feb. 2; Gaz. vol. 211; p. 34.
- Dipping and drying articles, Machine for. D. W. Roberts. No. 1,140,068; May 18; Gaz. vol. 214; p. 901.
- Dipping and drying machine. B. T. Richert. No. 1,133,820; Mar. 30; Gaz. vol. 212; p. 1567.

Alphabetical list of inventions—Continued.

- Dipping device. H. T. Roseen. No. 1,150,065; Aug. 17; Gaz. vol. 217; p. 728.
- Dipping-machine. C. M. Green. No. 1,128,308; Feb. 16; Gaz. vol. 211; p. 667.
- Dipping-machine. A. K. Lewis. No. 1,146,180; July 13; Gaz. vol. 216; p. 442.
- Dipping-machine. C. Mettler and G. C. Moore. No. 1,166,071; Dec. 28; Gaz. vol. 221; p. 1289.
- Direct-return trap, Unlimited-capacity. J. P. Cunningham. No. 1,148,959; Aug. 3; Gaz. vol. 217; p. 168.
- Direction-indicating device. E. Aufero. No. 1,130,690; Mar. 2; Gaz. vol. 212; p. 297.
- Direction-indicator. H. D. Ball, J. I. Floyd, and L. S. Carr. No. 1,126,684; Feb. 2; Gaz. vol. 211; p. 5.
- Direction-indicator. H. F. Delmanhorst. No. 1,134,595; Apr. 6; Gaz. vol. 213; p. 187.
- Direction-indicator. J. Henry. No. 1,146,706; July 13; Gaz. vol. 216; p. 626.
- Direction-indicator. H. E. Stout. No. 1,158,083; Oct. 26; Gaz. vol. 219; p. 1083.
- Direction-indicator, Automatic. N. W. Kleinman. No. 1,136,814; Apr. 20; Gaz. vol. 213; p. 1050.
- Direction-indicator, Vehicle. W. W. Bell. No. 1,138,834; May 11; Gaz. vol. 214; p. 430.
- Direction-post. E. Davies. No. 1,164,996; Dec. 21; Gaz. vol. 221; p. 876.
- Directory-board. A. Merk-Wirz. No. 1,132,168; Mar. 16; Gaz. vol. 212; p. 861.
- Dirigible fender. J. R. Holt and C. L. Rippey. No. 1,146,937; July 20; Gaz. vol. 216; p. 727.
- Dirigible light. E. E. Krumbein. No. 1,133,292; Mar. 30; Gaz. vol. 212; p. 1377.
- Dirigible light. L. M. G. Lourdin. No. 1,127,463; Feb. 9; Gaz. vol. 211; p. 321.
- Dirt, sand, and manure loader. L. A. Crist. No. 1,156,889; Oct. 19; Gaz. vol. 219; p. 599.
- Discharge-tube. E. Reisz. No. 1,142,625; June 8; Gaz. vol. 215; p. 577.
- Disconnective switch. B. G. Jamieson. No. 1,164,524; Dec. 14; Gaz. vol. 221; p. 672.
- Discus. W. F. Reach. No. 1,134,008; Mar. 30; Gaz. vol. 212; p. 1627.
- Dish and vegetable washer and fruit-canner, Combined. V. Likely. No. 1,149,656; Aug. 10; Gaz. vol. 217; p. 523.
- Dish-forming machine. P. R. Simmons. No. 1,147,759; July 27; Gaz. vol. 216; p. 1041.
- Dish, Fruit, salad, and dessert. T. F. Pick. No. 1,123,793; Jan. 5; Gaz. vol. 210; p. 204.
- Dish-holder. W. B. Barley. No. 1,125,444; Jan. 19; Gaz. vol. 210; p. 871.
- Dish, Nut-. J. M. Harper. No. 1,138,288; May 4; Gaz. vol. 214; p. 198.
- Dish-pan. A. B. Lloyd. No. 1,154,521; Sept. 21; Gaz. vol. 218; p. 828.
- Dish-rag holder. R. C. Odoms. No. 1,139,565; May 18; Gaz. vol. 214; p. 721.
- Dish-washer. C. H. Baer. No. 1,140,561; May 25; Gaz. vol. 214; p. 1109.
- Dish-washer. J. B. Davis. No. 1,158,452; Nov. 2; Gaz. vol. 220; p. 15.
- Dish-washer. C. J. Dusseau. No. 1,123,260; Jan. 5; Gaz. vol. 210; p. 19.
- Dish-washer. P. Frazier and E. A. Nation. No. 1,148,305; July 27; Gaz. vol. 216; p. 1235.
- Dish-washer. T. W. Heermans. No. 1,149,195; Aug. 10; Gaz. vol. 217; p. 354.
- Dish-washer. E. Maurer. No. 1,124,318; Jan. 12; Gaz. vol. 210; p. 432.
- Dish-washer. G. F. Ray. No. 1,141,414; June 1; Gaz. vol. 215; p. 118.
- Dish-washer. F. H. Stevens. No. 1,139,313; May 11; Gaz. vol. 214; p. 595.
- Dish-washer. A. Tanaka. No. 1,154,349; Sept. 21; Gaz. vol. 218; p. 771.
- Dish-washer, Steam and hot-water. R. W. Dodge. No. 1,142,083; June 8; Gaz. vol. 215; p. 388.
- Dish-washing apparatus. F. A. Barney. No. 1,126,347; Jan. 26; Gaz. vol. 210; p. 1227.
- Dish-washing apparatus. A. Bouchery. No. 1,143,099; June 15; Gaz. vol. 215; p. 782.
- Dish-washing apparatus. L. Gschwind. No. 1,135,108; Apr. 13; Gaz. vol. 213; p. 410.
- Dish-washing device. M. Aaron. No. 1,133,691; Mar. 30; Gaz. vol. 212; p. 1522.
- Dish-washing device. A. Kraut. No. 1,139,426; May 11; Gaz. vol. 214; p. 637.
- Dish-washing machine. W. B. Barley. No. 1,161,916; Nov. 30; Gaz. vol. 220; p. 1412.
- Dish-washing machine. F. W. Beardsley. No. 1,150,924; Aug. 24; Gaz. vol. 217; p. 1087.
- Dish-washing machine. M. O. Denton. No. 1,123,995; Jan. 5; Gaz. vol. 210; p. 269.
- Dish-washing machine. G. Gorton. No. 1,159,661; Nov. 9; Gaz. vol. 220; p. 470.
- Dish-washing machine. J. Holey. No. 1,159,768; Nov. 9; Gaz. vol. 220; p. 509.
- Dish-washing machine. U. Hutchinson. No. 1,131,137; Mar. 9; Gaz. vol. 212; p. 483.
- Dish-washing machine. E. A. Johanson. No. 1,155,930; Oct. 5; Gaz. vol. 219; p. 210.
- Dish-washing machine. H. P. Marshall and G. E. Daniels. No. 1,152,532; Sept. 7; Gaz. vol. 218; p. 57.
- Dish-washing machine. J. T. McGrath. No. 1,142,187; June 8; Gaz. vol. 215; p. 424.
- Dish-washing machine. J. T. McGrath. No. 1,143,216; June 15; Gaz. vol. 215; p. 824.
- Dish-washing machine. J. T. McGrath. No. 1,143,217; June 15; Gaz. vol. 215; p. 825.
- Dish-washing machine. A. W. Morris. No. 1,145,607; July 6; Gaz. vol. 216; p. 220.
- Dish-washing machine. T. E. Murray. No. 1,156,424; Oct. 12; Gaz. vol. 219; p. 408.
- Dish-washing machine. A. Oberheim. No. 1,127,801; Feb. 9; Gaz. vol. 211; p. 440.
- Dish-washing machine. M. F. Redmon. No. 1,153,255; Sept. 14; Gaz. vol. 218; p. 352.
- Dish-washing machine. J. J. Sleeper. No. 1,123,604; Jan. 5; Gaz. vol. 210; p. 139.
- Dish-washing machine. N. Zaninovich. No. 1,162,966; Dec. 7; Gaz. vol. 221; p. 81.
- Dish-washing machines, Mechanical motor for. W. R. Walker. No. 1,158,409; Oct. 26; Gaz. vol. 219; p. 1198.
- Dishes and similar articles, Cleaning-machine for. E. A. Fagerlund and A. A. H. Björjeson. No. 1,139,406; May 11; Gaz. vol. 214; p. 629.
- Dishes or other receptacles, Machine for making butter-. E. Craig. No. 1,135,666; Apr. 13; Gaz. vol. 213; p. 605.
- Disinfectant. P. Flemming. No. 1,162,152; Nov. 30; Gaz. vol. 220; p. 1495.
- Disinfectant apparatus. J. H. Reamer. No. 1,136,268; Apr. 20; Gaz. vol. 213; p. 856.
- Disinfectant-container. B. L. Behrendt. No. 1,149,890; Aug. 10; Gaz. vol. 217; p. 606.
- Disinfectant-container. A. H. Ekman and P. J. Gallagher. No. 1,155,343; Oct. 5; Gaz. vol. 219; p. 7.
- Disinfectant-holder. E. Sayles. No. 1,163,267; Dec. 7; Gaz. vol. 221; p. 186.
- Disinfectant-holder, Urinal. D. A. Brown. No. 1,130,139; Mar. 2; Gaz. vol. 212; p. 103.
- Disinfectant-holder, Water-closet. D. A. Brown. No. 1,145,669; July 6; Gaz. vol. 216; p. 242.
- Disinfectant pencil-carrier. L. C. Witkowski. No. 1,138,524; May 4; Gaz. vol. 214; p. 280.
- Disinfecting and deodorizing device, Self-feeding. G. F. Chapman. No. 1,156,974; Oct. 19; Gaz. vol. 219; p. 630.
- Disinfecting apparatus. D. J. Doran. No. 1,127,207; Feb. 2; Gaz. vol. 211; p. 191.
- Disinfecting apparatus. J. R. Van Dyne. No. 1,139,740; May 18; Gaz. vol. 214; p. 783.
- Disinfecting composition. A. S. Horovitz. No. 1,154,925; Sept. 28; Gaz. vol. 218; p. 995.
- Disinfecting means, Toilet-seat. R. D. Mayo. No. 1,132,204; Mar. 16; Gaz. vol. 212; p. 896.
- Disintegrating fibrous material, Apparatus for. W. H. Stobie. No. 1,165,033; Dec. 21; Gaz. vol. 221; p. 889.
- Disintegrator. J. F. Dierdorff. No. 1,126,416; Jan. 26; Gaz. vol. 210; p. 1250.
- Disk attachment. E. R. Beeman and T. Brennan, Jr. No. 1,130,699; Mar. 9; Gaz. vol. 212; p. 334.
- Disk attachment. W. E. Helin. No. 1,155,657; Oct. 5; Gaz. vol. 219; p. 115.
- Disk attachment. H. W. Wachter. No. 1,147,662; July 20; Gaz. vol. 216; p. 981.
- Disk blade. O. B. Bullard. No. 1,141,765; June 1; Gaz. vol. 215; p. 239.
- Disk drill, Single-. H. R. Hughes. No. 1,124,243; Jan. 5; Gaz. vol. 210; p. 358.
- Disk-holder. J. A. Maker. No. 1,130,914; Mar. 9; Gaz. vol. 212; p. 408.
- Disk implement. W. J. Teeters. No. 1,152,061; Aug. 31; Gaz. vol. 217; p. 1523.
- Disk jointer. G. Baldwin. No. 1,163,200; Dec. 7; Gaz. vol. 221; p. 163.
- Disk jointer. S. H. Phelps. No. 1,162,645; Nov. 30; Gaz. vol. 220; p. 1660.
- Disk-record case. W. A. E. Noble. No. 1,136,256; Apr. 20; Gaz. vol. 213; p. 852.
- Disk-scraper. R. M. Miller. No. 1,160,638; Nov. 16; Gaz. vol. 220; p. 871.
- Disks, Apparatus for embossing the rims of. M. Singewald. No. 1,153,965; Sept. 21; Gaz. vol. 218; p. 638.
- Dispensing apparatus. J. J. Alley. No. 1,132,545; Mar. 23; Gaz. vol. 212; p. 1068.
- Dispensing apparatus. A. B. Branch and T. G. Ball. No. 1,132,429; Mar. 16; Gaz. vol. 212; p. 978.
- Dispensing apparatus. F. W. Calvert. No. 1,144,890; June 29; Gaz. vol. 215; p. 1456.
- Dispensing apparatus. H. E. Erwin and F. A. Bowers. No. 1,127,215; Feb. 2; Gaz. vol. 211; p. 194.
- Dispensing apparatus. M. P. Henvis. No. 1,144,764; June 29; Gaz. vol. 215; p. 1412.
- Dispensing apparatus. W. A. Hilliard. No. 1,138,201; May 4; Gaz. vol. 214; p. 199.
- Dispensing apparatus. J. F. Huber. No. 1,164,350; Dec. 14; Gaz. vol. 221; p. 610.
- Dispensing apparatus. O. Jaeger. No. 1,151,792; Aug. 31; Gaz. vol. 217; p. 1429.
- Dispensing apparatus. L. W. Luellen. No. 1,131,255; Mar. 9; Gaz. vol. 212; p. 524.

Alphabetical list of inventions—Continued.

- Dispensing apparatus. W. Millard. No. 1,157,645; Oct. 19; Gaz. vol. 219; p. 863.
- Dispensing apparatus. A. Philippsen. No. 1,151,532; Aug. 24; Gaz. vol. 217; p. 1293.
- Dispensing apparatus. O. M. Stiegler. No. 1,163,571; Dec. 7; Gaz. vol. 221; p. 292.
- Dispensing apparatus. Check-controlled. C. S. Batdorf. No. 1,135,252; Apr. 13; Gaz. vol. 213; p. 458.
- Dispensing apparatus. Coin-controlled. C. H. Brazell. No. 1,156,746; Oct. 12; Gaz. vol. 219; p. 520.
- Dispensing apparatus. Multiple-receiver. W. Millard. No. 1,159,245; Nov. 2; Gaz. vol. 220; p. 291.
- Dispensing-bin. W. C. Templeton. (Reissue.) No. 1,39,975; Aug. 31; Gaz. vol. 217; p. 1641.
- Dispensing-can. F. M. Furber. No. 1,158,676; Nov. 2; Gaz. vol. 220; p. 94.
- Dispensing-can. H. W. J. Gruettner. No. 1,133,134; Mar. 23; Gaz. vol. 212; p. 1285.
- Dispensing cap or cover. A. C. Crimmel. No. 1,157,679; Oct. 26; Gaz. vol. 219; p. 941.
- Dispensing-container. J. W. and M. W. Schloss. No. 1,154,212; Sept. 21; Gaz. vol. 218; p. 722.
- Dispensing device. W. S. Barney. No. 1,133,698; Mar. 30; Gaz. vol. 212; p. 1524.
- Dispensing device. L. Fissenne. No. 1,139,758; May 18; Gaz. vol. 214; p. 789.
- Dispensing device. A. M. Roland. No. 1,159,275; Nov. 2; Gaz. vol. 220; p. 300.
- Dispensing-machine. F. O. Bullis. (Reissue.) No. 1,3859; Jan. 5; Gaz. vol. 210; p. 363.
- Dispensing-machine. F. C. Kainer. No. 1,132,587; Mar. 23; Gaz. vol. 212; p. 1084.
- Dispensing-machine. F. L. Stocking. No. 1,165,034; Dec. 21; Gaz. vol. 221; p. 889.
- Dispensing-package. F. P. Wood. No. 1,158,093; Oct. 26; Gaz. vol. 219; p. 1086.
- Dispensing-receptacle. A. Beck. No. 1,156,456; Oct. 12; Gaz. vol. 219; p. 419.
- Dispensing-receptacle for paste, &c. L. H. Ballou. No. 1,154,163; Sept. 21; Gaz. vol. 218; p. 706.
- Dispacement apparatus. A. H. Neuland. No. 1,164,546; Dec. 14; Gaz. vol. 221; p. 678.
- Display and dispensing package. M. B. Macdonald. No. 1,127,053; Feb. 2; Gaz. vol. 211; p. 137.
- Display and dispensing receptacle. J. Macnaughtan. No. 1,127,054; Feb. 2; Gaz. vol. 211; p. 138.
- Display and vending apparatus for spectacles. D. D. Sullivan. No. 1,132,406; Mar. 16; Gaz. vol. 212; p. 970.
- Display apparatus. C. Boudreaux. No. 1,128,938; Feb. 16; Gaz. vol. 211; p. 886.
- Display apparatus. V. H. Mankey. No. 1,161,062; Nov. 23; Gaz. vol. 220; p. 1065.
- Display apparatus. C. G. Miller. No. 1,150,053; Aug. 17; Gaz. vol. 217; p. 724.
- Display-board, Electric. N. L. Wine. No. 1,141,740; June 1; Gaz. vol. 215; p. 231.
- Display-box. A. M. Billstein. No. 1,149,891; Aug. 10; Gaz. vol. 217; p. 606.
- Display-box. W. T. Clinger. No. 1,150,176; Aug. 17; Gaz. vol. 217; p. 770.
- Display-box. W. J. O'Donnell. No. 1,131,075; Mar. 9; Gaz. vol. 212; p. 462.
- Display-box. H. Waldes. No. 1,136,187; Apr. 20; Gaz. vol. 213; p. 826.
- Display-box, Folding. W. F. Ware. No. 1,146,827; July 20; Gaz. vol. 216; p. 688.
- Display-box for bakery products. D. K. Oxley. No. 1,147,041; July 20; Gaz. vol. 216; p. 763.
- Display-box for writing-paper. W. A. Pike. No. 1,140,061; May 18; Gaz. vol. 214; p. 898.
- Display-cabinet. F. A. Crowder. No. 1,164,578; Dec. 14; Gaz. vol. 221; p. 688.
- Display-cabinet. W. C. Fogle. No. 1,127,223; Feb. 2; Gaz. vol. 211; p. 197.
- Display-cabinet. W. C. Heller. No. 1,129,389; Feb. 23; Gaz. vol. 211; p. 1079.
- Display-cabinet. M. Lennards. No. 1,163,162; Dec. 7; Gaz. vol. 221; p. 150.
- Display-cabinet. J. W. Millen. No. 1,162,299; Nov. 30; Gaz. vol. 220; p. 1546.
- Display-cabinet. J. B. Tinsley. No. 1,138,913; May 11; Gaz. vol. 214; p. 456.
- Display-cabinet, Sectional. A. L. Eaton. No. 1,154,240; Sept. 21; Gaz. vol. 218; p. 732.
- Display-can. T. M. Campbell. No. 1,130,256; Mar. 2; Gaz. vol. 212; p. 143.
- Display-card. A. R. Larrabee. No. 1,141,349; June 1; Gaz. vol. 215; p. 93.
- Display-card. W. R. Minnick. No. 1,162,503; Nov. 30; Gaz. vol. 220; p. 1616.
- Display-card holder. B. S. Wright. No. 1,152,461; Sept. 7; Gaz. vol. 218; p. 27.
- Display-case. A. W. Gussner and L. H. Carufel. No. 1,138,753; May 11; Gaz. vol. 214; p. 400.
- Display-case. J. F. Huckel. No. 1,161,387; Nov. 23; Gaz. vol. 220; p. 1183.
- Display-case. A. C. Mowitz. No. 1,125,870; Jan. 19; Gaz. vol. 210; p. 1020.
- Display-case mechanism. T. R. Treiber. No. 1,123,428; Jan. 5; Gaz. vol. 210; p. 80.
- Display-case, Supplemental. P. A. Becker. No. 1,150,329; Aug. 17; Gaz. vol. 217; p. 823.
- Display-cases, Combination end and coupling for. L. J. Smith. No. 1,124,345; Jan. 12; Gaz. vol. 210; p. 442.
- Display-container. J. P. Carver. No. 1,142,020; June 8; Gaz. vol. 215; p. 365.
- Display-container. F. Clough. No. 1,160,262; Nov. 16; Gaz. vol. 220; p. 736.
- Display-counter. F. C. Locke. No. 1,159,336; Nov. 2; Gaz. vol. 220; p. 322.
- Display-counter. W. G. and S. J. Sberer. No. 1,163,868; Dec. 14; Gaz. vol. 221; p. 443.
- Display-cover for boxes. P. Rappaport. No. 1,141,144; June 1; Gaz. vol. 215; p. 18.
- Display-cover for containers of various types. M. Block. No. 1,148,655; Aug. 3; Gaz. vol. 217; p. 62.
- Display-cover for packages. M. Block. No. 1,148,654; Aug. 3; Gaz. vol. 217; p. 62.
- Display device. S. Adler. No. 1,135,484; Apr. 13; Gaz. vol. 213; p. 539.
- Display device. W. J. Anderson. No. 1,144,341; June 29; Gaz. vol. 215; p. 1269.
- Display device. I. M. Cutler. No. 1,152,795; Sept. 7; Gaz. vol. 218; p. 152.
- Display device. F. Kiefer. No. 1,156,603; Oct. 12; Gaz. vol. 219; p. 470.
- Display device. C. S. Miller. No. 1,128,028; Feb. 9; Gaz. vol. 211; p. 519.
- Display device. W. T. Phillips and T. C. De Lisle. No. 1,157,252; Oct. 19; Gaz. vol. 219; p. 730.
- Display device. O. G. Rust. No. 1,140,318; May 18; Gaz. vol. 214; p. 986.
- Display device. O. L. Smith. No. 1,161,901; Nov. 30; Gaz. vol. 220; p. 1406.
- Display device. O. L. Smith. No. 1,161,902; Nov. 30; Gaz. vol. 220; p. 1407.
- Display device. J. Strandars. No. 1,147,461; July 20; Gaz. vol. 216; p. 911.
- Display device. A. Vanderveld. No. 1,157,651; Oct. 19; Gaz. vol. 219; p. 865.
- Display device, Advertising. C. P. Ross. No. 1,128,522; Feb. 16; Gaz. vol. 211; p. 740.
- Display device for bottles, &c. M. S. Achenbach. No. 1,144,086; June 22; Gaz. vol. 215; p. 1149.
- Display door, Sample. M. M. Harris. No. 1,126,633; Jan. 26; Gaz. vol. 210; p. 1331.
- Display-fixture for garments. A. Gustafson. No. 1,138,601; May 4; Gaz. vol. 214; p. 306.
- Display-form. H. Schack. No. 1,163,110; Dec. 7; Gaz. vol. 221; p. 131.
- Display-form covering. J. L. Burr. No. 1,141,313; June 1; Gaz. vol. 215; p. 80.
- Display-frames, Adjustable support for portable. M. Smernoff. No. 1,149,692; Aug. 10; Gaz. vol. 217; p. 535.
- Display hanger or rack. Trousers-. W. C. Fogle. No. 1,127,222; Feb. 2; Gaz. vol. 211; p. 197.
- Display-holder. P. R. Warren. No. 1,136,453; Apr. 20; Gaz. vol. 213; p. 923.
- Display holder, Card-. C. Bernstein. No. 1,148,742; Aug. 3; Gaz. vol. 217; p. 94.
- Display lighting apparatus. W. H. Spencer. No. 1,124,544; Jan. 12; Gaz. vol. 210; p. 514.
- Display-machine. J. G. C. Mantle. No. 1,158,258; Oct. 26; Gaz. vol. 219; p. 1143.
- Display machine, Poster-. G. F. Havens. No. 1,130,084; Mar. 2; Gaz. vol. 212; p. 84.
- Display-rack. T. W. Downing. No. 1,136,516; Apr. 20; Gaz. vol. 213; p. 945.
- Display-rack. O. K. Dunbar. No. 1,150,256; Aug. 17; Gaz. vol. 217; p. 799.
- Display-rack. L. Feldmann, Jr., and T. E. Creclius. No. 1,125,994; Jan. 26; Gaz. vol. 210; p. 1098.
- Display-rack. A. F. Flanders. No. 1,150,109; Aug. 17; Gaz. vol. 217; p. 745.
- Display-rack. C. C. Fleming. No. 1,125,681; Jan. 19; Gaz. vol. 210; p. 955.
- Display-rack. L. A. Folsom. No. 1,155,558; Oct. 5; Gaz. vol. 215; p. 81.
- Display-rack. E. S. Frazier and A. Gustafson. No. 1,133,600; May 4; Gaz. vol. 214; p. 306.
- Display-rack. S. Himmel and G. Eble. No. 1,130,166; Mar. 2; Gaz. vol. 212; p. 112.
- Display-rack. L. D. Hincer. No. 1,127,002; Feb. 2; Gaz. vol. 211; p. 119.
- Display-rack. W. T. Holmes. No. 1,133,861; Mar. 30; Gaz. vol. 212; p. 1582.
- Display-rack. W. T. Holmes. No. 1,145,864; July 6; Gaz. vol. 216; p. 311.
- Display-rack. O. F. Kime. No. 1,138,488; May 4; Gaz. vol. 214; p. 270.
- Display-rack. A. E. Miller. No. 1,133,873; Mar. 30; Gaz. vol. 212; p. 1586.
- Display-rack. A. C. Mills, Jr. No. 1,145,205; July 6; Gaz. vol. 216; p. 80.
- Display-rack. R. G. Nicholas. No. 1,126,837; Feb. 2; Gaz. vol. 211; p. 62.
- Display-rack. R. G. Nicholas. No. 1,161,955; Nov. 30; Gaz. vol. 220; p. 1427.
- Display-rack. J. Reichert. No. 1,137,900; May 4; Gaz. vol. 214; p. 61.
- Display-rack. J. Seamans. No. 1,149,691; Aug. 10; Gaz. vol. 217; p. 535.

Alphabetical list of inventions—Continued.

- Display-rack. C. F. Stewart. No. 1,138,995; May 11; Gaz. vol. 214; p. 486.
- Display rack, Clothes-. T. F. Graham. No. 1,131,056; Mar. 9; Gaz. vol. 212; p. 456.
- Display-rack, Folding. M. Finkelstein. No. 1,146,488; July 13; Gaz. vol. 216; p. 552.
- Display-rack for whips. C. H. Baumeister. No. 1,140,102; May 18; Gaz. vol. 214; p. 913.
- Display rack or cabinet. O. T. Romsos. No. 1,134,908; Apr. 6; Gaz. vol. 213; p. 294.
- Display rack, Post-card-. E. Peterson. No. 1,134,485; Apr. 6; Gaz. vol. 213; p. 147.
- Display rack, Post-card-. E. Peterson. No. 1,160,197; Nov. 16; Gaz. vol. 220; p. 714.
- Display-rack, Rotary. A. Vanderveld. (Reissue.) No. 13,920; May 18; Gaz. vol. 214; p. 998.
- Display rack, Rug-. J. H. Doran. No. 1,162,989; Dec. 7; Gaz. vol. 221; p. 89.
- Display-sign, Means for mounting a lens. O. Smith. No. 1,127,102; Feb. 2; Gaz. vol. 211; p. 155.
- Display-stand. G. T. F. Clarke. No. 1,142,933; June 15; Gaz. vol. 215; p. 724.
- Display-stand. J. A. Imhof. No. 1,157,542; Oct. 19; Gaz. vol. 219; p. 831.
- Display-stand. J. J. Karges. No. 1,156,083; Oct. 12; Gaz. vol. 219; p. 290.
- Display-stand. H. A. Sackett. No. 1,124,175; Jan. 5; Gaz. vol. 210; p. 332.
- Display-stand. T. C. Sheehan. No. 1,134,704; Apr. 6; Gaz. vol. 213; p. 227.
- Display-stand. J. Sigmund. No. 1,125,194; Jan. 19; Gaz. vol. 210; p. 781.
- Display-stand. C. C. Vosburgh. No. 1,138,265; May 4; Gaz. vol. 214; p. 190.
- Display stand, Ax-. C. L. Samuel. No. 1,132,392; Mar. 16; Gaz. vol. 212; p. 965.
- Display-stand, Vender's. E. Brunhoff. No. 1,137,947; May 4; Gaz. vol. 214; p. 79.
- Display-stand, Vender's. E. Brunhoff. No. 1,141,687; June 1; Gaz. vol. 215; p. 214.
- Display switching mechanism, Electric-. E. H. Bickley. No. 1,155,466; Oct. 5; Gaz. vol. 219; p. 49.
- Display-tray. H. A. Sackett. No. 1,166,263; Dec. 28; Gaz. vol. 221; p. 1363.
- Displaying apparatus, Card-. D. W. Barrow. No. 1,140,348; May 25; Gaz. vol. 214; p. 1031.
- Displaying cards and the like, Machine for. W. H. Clegg. No. 1,161,616; Nov. 23; Gaz. vol. 220; p. 1261.
- Displaying cards, Means for. B. Appleby. No. 1,136,919; Apr. 27; Gaz. vol. 213; p. 1124.
- Displaying case, Sample-. M. Steinthal. No. 1,128,542; Feb. 16; Gaz. vol. 211; p. 747.
- Displaying closure, Sample-. S. G. Maloney. No. 1,147,033; July 20; Gaz. vol. 216; p. 761.
- Displaying posters and the like, Machine for intermittently. E. W. Brown. No. 1,132,910; Mar. 23; Gaz. vol. 212; p. 1203.
- Distance and direction determining apparatus. P. W. Fuller. No. 1,149,122; Aug. 3; Gaz. vol. 217; p. 222.
- Distance-finder. W. L. Fry. No. 1,163,594; Dec. 7; Gaz. vol. 221; p. 300.
- Distender-wire. H. H. Klein. No. 1,128,688; Feb. 16; Gaz. vol. 211; p. 796.
- Distillate-burner. A. and H. Berg. No. 1,162,552; Nov. 30; Gaz. vol. 220; p. 1632.
- Distillate-burner. T. E. Potts. No. 1,153,516; Sept. 14; Gaz. vol. 218; p. 448.
- Distillation. A. Woolner, Jr. No. 1,153,992; Sept. 21; Gaz. vol. 218; p. 647.
- Distillation and rectification of alcoholic liquids, Continuous process for the. V. Slavicek. No. 1,136,559; Apr. 20; Gaz. vol. 213; p. 960.
- Distillation and rectification, Separating the first and last runnings in. F. Pampe. No. 1,145,332; July 6; Gaz. vol. 216; p. 123.
- Distillation of heavy oils. J. Rosen. No. 1,162,654; Nov. 30; Gaz. vol. 220; p. 1663.
- Distillation of hydrocarbons. H. Hennebutte. No. 1,165,878; Dec. 28; Gaz. vol. 221; p. 1223.
- Distillation of petroleum. W. P. Thompson. No. 1,160,670; Nov. 16; Gaz. vol. 220; p. 883.
- Distillation of resinous wood, Redistillation of products resulting from destructive. H. M. Chase and J. L. Graffin. No. 1,162,036; Nov. 30; Gaz. vol. 220; p. 1453.
- Distillation of wood, Destructive. B. R. and M. J. Lyster. No. 1,157,316; Oct. 19; Gaz. vol. 219; p. 752.
- Distillation of wood, Process of and apparatus for the destructive. A. Cameron. No. 1,137,255; Apr. 27; Gaz. vol. 213; p. 1246.
- Distillation of zinc, Muffle for the. M. Engels. No. 1,136,519; Apr. 20; Gaz. vol. 213; p. 947.
- Distillation, Petroleum. E. M. Clark. No. 1,129,034; Feb. 16; Gaz. vol. 211; p. 919.
- Distillation, Petroleum. E. M. Clark. No. 1,132,163; Mar. 16; Gaz. vol. 212; p. 331.
- Distillation, Process and apparatus for continuous. F. Raschig. No. 1,141,265; June 1; Gaz. vol. 215; p. 62.
- Distillation, Redistillation of products of destructive. H. M. Chase and J. L. Graffin. No. 1,161,844; Nov. 30; Gaz. vol. 220; p. 1386.
- Distillery-slop, Manufacture of by-products from. A. Von Laszloffy. No. 1,147,767; July 27; Gaz. vol. 216; p. 1043.
- Distillery-slop, Manufacture of by-products from. A. Von Laszloffy. No. 1,147,769; July 27; Gaz. vol. 216; p. 1044.
- Distillery-slop, Obtaining by-products from. A. Von Laszloffy. No. 1,147,768; July 27; Gaz. vol. 216; p. 1044.
- Distillery-slop, Recovering by-products from. A. Von Laszloffy. No. 1,147,770; July 27; Gaz. vol. 216; p. 1044.
- Distilling apparatus, Petroleum-oil-. J. B. Moore. No. 1,130,318; Mar. 2; Gaz. vol. 212; p. 165.
- Distilling apparatus, Turpentine-. H. E. Bryant. No. 1,130,743; Mar. 9; Gaz. vol. 212; p. 349.
- Distilling hydrocarbon-oil. C. W. Turner. No. 1,151,422; Aug. 24; Gaz. vol. 217; p. 1254.
- Distilling oil, Method of and apparatus for. J. T. Davis. No. 1,159,186; Nov. 2; Gaz. vol. 220; p. 270.
- Distilling petroleum, Fractional condenser for separating hydrocarbons in. J. W. Van Dyke and W. M. Irish. No. 1,130,862; Mar. 9; Gaz. vol. 212; p. 389.
- Distilling petroleum, Process and apparatus for. L. Stewart. No. 1,163,570; Dec. 7; Gaz. vol. 221; p. 291.
- Distilling petroleum, Process of and apparatus for. J. W. Van Dyke and W. M. Irish. No. 1,143,466; June 15; Gaz. vol. 215; p. 911.
- Distributor. H. T. Clark. No. 1,123,246; Jan. 5; Gaz. vol. 210; p. 15.
- Distributor-elbow. A. Rosenthal. No. 1,154,658; Sept. 28; Gaz. vol. 218; p. 905.
- Distributing apparatus. C. Capsoni. No. 1,146,132; July 13; Gaz. vol. 216; p. 425.
- Distributing device. L. C. Josephs, Jr. No. 1,164,286; Dec. 14; Gaz. vol. 221; p. 587.
- Distributing device. J. C. Shirley. No. 1,155,763; Oct. 5; Gaz. vol. 219; p. 151.
- Distributing-machine, Portable. W. H. Calnan. No. 1,139,844; May 18; Gaz. vol. 214; p. 820.
- Distributing mechanism. J. H. Michener, Jr. No. 1,139,133; May 11; Gaz. vol. 214; p. 536.
- Distribution system. J. Bijur. No. 1,124,277; Jan. 12; Gaz. vol. 210; p. 418.
- Distribution system. L. E. Bogen and L. C. Nichols. No. 1,150,416; Aug. 17; Gaz. vol. 217; p. 853.
- Distribution system. L. A. Hawkins. No. 1,131,237; Mar. 9; Gaz. vol. 212; p. 518.
- Distribution system. J. L. Johnson. No. 1,139,294; May 11; Gaz. vol. 214; p. 539.
- Distribution system. L. C. Marburg. No. 1,147,417; July 20; Gaz. vol. 216; p. 895.
- Distribution system. H. F. Perkins. No. 1,160,750; Nov. 16; Gaz. vol. 220; p. 911.
- Distribution system. E. O. Schweitzer. No. 1,162,405; Nov. 30; Gaz. vol. 220; p. 1581.
- Distribution system. R. B. Williamson. No. 1,138,341; May 4; Gaz. vol. 214; p. 219.
- Distribution system. E. C. Wright. No. 1,134,659; Apr. 6; Gaz. vol. 213; p. 211.
- Ditch-gate. A. J. Collar. No. 1,133,619; Mar. 30; Gaz. vol. 212; p. 1494.
- Ditch-guard. J. Bates. No. 1,153,186; Sept. 14; Gaz. vol. 218; p. 328.
- Ditcher and grader. G. W. Jory. No. 1,146,261; July 13; Gaz. vol. 213; p. 471.
- Ditcher, Secret. G. K. Sweeney. No. 1,160,549; Nov. 16; Gaz. vol. 220; p. 837.
- Ditcher, Walking. C. Van Antwerp. No. 1,155,975; Oct. 5; Gaz. vol. 219; p. 225.
- Ditching and grading machine. W. T. Phipps. No. 1,166,251; Dec. 28; Gaz. vol. 221; p. 1359.
- Ditching-machine. E. T. Heggland. No. 1,153,916; Sept. 21; Gaz. vol. 218; p. 621.
- Ditching-machine. W. Hubertz. No. 1,152,893; Sept. 7; Gaz. vol. 218; p. 189.
- Ditching-machine. G. A. Kimbrel. No. 1,139,190; May 11; Gaz. vol. 214; p. 556.
- Ditching-machine. S. L. Moser. No. 1,138,002; May 4; Gaz. vol. 214; p. 97.
- Ditching-machine apparatus. T. Linga. No. 1,152,524; Sept. 7; Gaz. vol. 218; p. 53.
- Ditching-machines, Caterpillar-wheel for. T. Linga. No. 1,152,525; Sept. 7; Gaz. vol. 218; p. 54.
- Diver-saving apparatus. C. Christiansen. No. 1,133,932; Mar. 30; Gaz. vol. 212; p. 1604.
- Diver's dress consisting of a shirt or jacket and separate trousers. F. L. Claren. No. 1,153,030; Sept. 7; Gaz. vol. 218; p. 237.
- Divers' suits, Distribution of the weights on. H. Stelzner. No. 1,162,525; Nov. 30; Gaz. vol. 220; p. 1623.
- Diving apparatus. A. B. Dräger. No. 1,131,490; Mar. 9; Gaz. vol. 212; p. 606.
- Diving apparatus. W. J. Rogers. No. 1,139,805; May 18; Gaz. vol. 214; p. 806.
- Dividers. F. W. Gregory. No. 1,137,605; Apr. 27; Gaz. vol. 213; p. 1369.
- Dividers. E. Thompson. No. 1,150,556; Aug. 17; Gaz. vol. 217; p. 903.
- Dividers and center-punch. C. Antrobus. No. 1,157,020; Oct. 26; Gaz. vol. 219; p. 1060.

Alphabetical list of inventions—Continued.

- Dividing instrument, Proportional. L. M. Parrett. No. 1,125,388; Jan. 19; Gaz. vol. 210; p. 852.
- Dividing-machine. C. Oskamp. No. 1,125,386; Jan. 19; Gaz. vol. 210; p. 851.
- Dividing-plate, Perishable. F. W. Stocker. No. 1,131,872; Mar. 16; Gaz. vol. 212; p. 776.
- Dobby pattern-cylinder. A. A. Gordon, Jr. No. 1,145,677; July 6; Gaz. vol. 216; p. 244.
- Dock-constructing apparatus, Dry-. D. D. McBean. No. 1,160,180; Nov. 16; Gaz. vol. 220; p. 708.
- Docks, Construction of dry or graving. F. R. Harris. No. 1,134,333; Apr. 6; Gaz. vol. 213; p. 92.
- Documents, Production of safety-grounds for. C. G. Pettit. No. 1,153,131; Sept. 7; Gaz. vol. 218; p. 270.
- Doffer. B. A. Peterson. No. 1,127,674; Feb. 9; Gaz. vol. 211; p. 391.
- Doffer-ring. O. L. Taft. No. 1,137,925; May 4; Gaz. vol. 214; p. 71.
- Doffing-machine. A. G. Boozer, Jr., and G. Hill. No. 1,142,014; June 8; Gaz. vol. 215; p. 363.
- Doffing-machine. A. G. Boozer, Jr., and G. Hill. No. 1,142,015; June 8; Gaz. vol. 215; p. 363.
- Doffing-machine. A. G. Boozer, Jr., and G. Hill. No. 1,142,748; June 8; Gaz. vol. 215; p. 617.
- Dog. C. A. Palmgren. No. 1,158,832; Nov. 2; Gaz. vol. 220; p. 149.
- Doll. L. V. Aronson. No. 1,140,651; May 25; Gaz. vol. 214; p. 1139.
- Doll. F. Harrington. No. 1,162,604; Nov. 30; Gaz. vol. 220; p. 1648.
- Doll. F. W. Parsons. No. 1,136,482; Apr. 20; Gaz. vol. 213; p. 933.
- Doll. S. H. Rosofsky. No. 1,163,368; Dec. 7; Gaz. vol. 221; p. 222.
- Doll. H. A. Sancier. No. 1,148,540; Aug. 3; Gaz. vol. 217; p. 20.
- Doll, Cut-out. C. T. Switzler. No. 1,150,792; Aug. 17; Gaz. vol. 217; p. 983.
- Doll, Expression-. C. Z. Ito. No. 1,160,080; Nov. 9; Gaz. vol. 220; p. 618.
- Doll-eye adjuster. S. T. Mori. No. 1,157,119; Oct. 19; Gaz. vol. 219; p. 682.
- Doll-head. H. Klagsbrunn. No. 1,135,292; Apr. 13; Gaz. vol. 213; p. 472.
- Doll-head. I. A. Rommer. No. 1,149,858; Aug. 10; Gaz. vol. 217; p. 594.
- Doll-head. A. Röth. No. 1,146,596; July 13; Gaz. vol. 216; p. 589.
- Doll-head-molding machine. F. Pany. No. 1,152,208; Aug. 31; Gaz. vol. 217; p. 1572.
- Doll-mold. S. Haskell. No. 1,154,247; Sept. 21; Gaz. vol. 218; p. 735.
- Doll, puppet, toy figure, and the like, Stuffed. L. Rees. No. 1,139,997; May 18; Gaz. vol. 214; p. 875.
- Doll, Rag. A. Maxwell. No. 1,127,662; Feb. 9; Gaz. vol. 211; p. 387.
- Doll, Smoking. S. W. Stern. No. 1,143,458; June 15; Gaz. vol. 215; p. 908.
- Doll's head. M. E. Radick. No. 1,138,412; May 4; Gaz. vol. 214; p. 244.
- Dolls or the like, Printed sheet for making up stuffed. A. L. Wheeldon. No. 1,135,746; Apr. 13; Gaz. vol. 213; p. 632.
- Dolls, Sleeping-eyes for. O. E. Denivelle. No. 1,156,761; Oct. 12; Gaz. vol. 219; p. 525.
- Dolly-bar. H. H. Hughes. No. 1,156,142; Oct. 12; Gaz. vol. 219; p. 311.
- Door. A. F. Husz. No. 1,158,807; Nov. 2; Gaz. vol. 220; p. 140.
- Door. J. G. Wallace and A. Bell. No. 1,156,950; Oct. 19; Gaz. vol. 219; p. 621.
- Door, Adjustable sheet-metal. E. D. Fitzpatrick. No. 1,148,304; July 27; Gaz. vol. 216; p. 1234.
- Door-alarm. W. H. Roche and F. F. Pontius. No. 1,123,802; Jan. 5; Gaz. vol. 210; p. 206.
- Door and door-post construction. A. Moorhouse. No. 1,148,248; July 27; Gaz. vol. 216; p. 1214.
- Door and lock for safe-deposit boxes and the like. T. S. Spivey. No. 1,155,625; Oct. 5; Gaz. vol. 219; p. 103.
- Door and similar device, Metal. J. W. Rapp. No. 1,124,660; Jan. 12; Gaz. vol. 210; p. 557.
- Door and the like, Metallic. C. W. Larson and C. Olofson. No. 1,166,228; Dec. 28; Gaz. vol. 221; p. 1350.
- Door and the like, Sheet-metal. A. L. Kirby. No. 1,136,238; Apr. 20; Gaz. vol. 213; p. 845.
- Door and window securer. S. H. Zink. No. 1,127,344; Feb. 2; Gaz. vol. 211; p. 236.
- Door attachment, Screen-. B. Moore. No. 1,158,533; Nov. 2; Gaz. vol. 220; p. 44.
- Door, Automatic. T. Klos. No. 1,163,760; Dec. 14; Gaz. vol. 221; p. 405.
- Door, Automatic stair-. W. F. Rodgers. No. 1,156,556; Oct. 12; Gaz. vol. 219; p. 454.
- Door-bolt. E. J. G. Phillips. No. 1,150,450; Aug. 17; Gaz. vol. 217; p. 864.
- Door-bolt-operating device. E. F. Florcken. No. 1,133,948; Mar. 30; Gaz. vol. 212; p. 1609.
- Door-bolt, Three-point. J. H. Stewart. No. 1,146,366; July 13; Gaz. vol. 216; p. 506.
- Door-brace. N. Bohannon. No. 1,154,087; Sept. 21; Gaz. vol. 218; p. 681.
- Door-bracing device, Screen-. P. Christensen. No. 1,128,848; Feb. 16; Gaz. vol. 211; p. 852.
- Door-buffer. A. S. Newton. No. 1,126,836; Feb. 2; Gaz. vol. 211; p. 62.
- Door-buffer. O. M. Otte. No. 1,149,078; Aug. 3; Gaz. vol. 217; p. 210.
- Door bumper and holder, Combined. U. G. Miller. No. 1,128,173; Feb. 9; Gaz. vol. 211; p. 570.
- Door-catch. F. E. Howard. No. 1,139,869; May 18; Gaz. vol. 214; p. 830.
- Door-catch. R. L. Thompson. No. 1,128,550; Feb. 16; Gaz. vol. 211; p. 750.
- Door catch and lock, Combined. D. Donald. No. 1,137,195; Apr. 27; Gaz. vol. 213; p. 1223.
- Door catch, Cupboard-. R. M. Ross. No. 1,128,523; Feb. 16; Gaz. vol. 211; p. 740.
- Door-catch-operating mechanism. A. Akerhielm. No. 1,158,881; Nov. 2; Gaz. vol. 220; p. 166.
- Door-check. H. Ball. No. 1,133,453; Mar. 30; Gaz. vol. 212; p. 1434.
- Door-check. J. J. Daly. No. 1,131,121; Mar. 9; Gaz. vol. 212; p. 478.
- Door-check. J. J. Daly. No. 1,131,122; Mar. 9; Gaz. vol. 212; p. 478.
- Door-check. C. G. Fairchild. No. 1,149,902; Aug. 10; Gaz. vol. 217; p. 610.
- Door-check. C. E. Kinard. No. 1,131,711; Mar. 16; Gaz. vol. 212; p. 716.
- Door-check. J. F. Mullaney. No. 1,143,773; June 22; Gaz. vol. 215; p. 1039.
- Door-check. L. C. Norton. No. 1,152,339; Aug. 31; Gaz. vol. 217; p. 1618.
- Door-check. J. H. Pearson. No. 1,131,264; Mar. 9; Gaz. vol. 212; p. 528.
- Door-check. W. D. Putnam. No. 1,141,485; June 1; Gaz. vol. 215; p. 143.
- Door-check. J. C. Schmidt. No. 1,155,280; Sept. 28; Gaz. vol. 218; p. 1114.
- Door-check. E. H. Shaw. No. 1,135,061; Apr. 13; Gaz. vol. 213; p. 394.
- Door-check. J. H. Shaw. No. 1,123,810; Jan. 5; Gaz. vol. 210; p. 209.
- Door-check. W. B. Smith. No. 1,127,689; Feb. 9; Gaz. vol. 211; p. 396.
- Door-check. W. J. West. No. 1,154,148; Sept. 21; Gaz. vol. 218; p. 700.
- Door-check. D. E. Willard. No. 1,140,320; May 18; Gaz. vol. 214; p. 986.
- Door-check. D. E. Willard. No. 1,140,321; May 18; Gaz. vol. 214; p. 987.
- Door check and closer. C. V. Berry. No. 1,123,226; Jan. 5; Gaz. vol. 210; p. 8.
- Door check and closer. J. Gérard. No. 1,148,308; July 27; Gaz. vol. 216; p. 1236.
- Door check and closer. W. K. Henry. No. 1,140,457; May 25; Gaz. vol. 214; p. 1070.
- Door check and closer. J. Hoferle. No. 1,133,725; Mar. 30; Gaz. vol. 212; p. 1533.
- Door check and closer, Combined. J. Doro. No. 1,134,111; Apr. 6; Gaz. vol. 213; p. 10.
- Door check and closer, Combined. G. H. White. No. 1,126,148; Jan. 26; Gaz. vol. 210; p. 1154.
- Door check and holder. H. Williams. No. 1,146,378; July 13; Gaz. vol. 216; p. 511.
- Door check and lock. C. E. Berry. No. 1,147,921; July 27; Gaz. vol. 216; p. 1098.
- Door-check, Concealed. W. E. Williams. No. 1,147,909; July 27; Gaz. vol. 216; p. 1094.
- Door-check, Link. R. Kraus. No. 1,127,454; Feb. 9; Gaz. vol. 211; p. 318.
- Door-check, Liquid. T. Mooney. No. 1,123,780; Jan. 5; Gaz. vol. 210; p. 199.
- Door-clamp. R. H. Crowel. No. 1,138,088; May 4; Gaz. vol. 214; p. 130.
- Door-closer. R. F. Le Brocq and K. J. J. Schmutzler. No. 1,143,288; June 15; Gaz. vol. 215; p. 848.
- Door closer and check. W. K. Henry. No. 1,126,635; Jan. 26; Gaz. vol. 210; p. 1332.
- Door closer and check. L. C. Norton. No. 1,124,941; Jan. 12; Gaz. vol. 210; p. 655.
- Door closer and check, Combined. H. G. Voight. No. 1,140,637; May 25; Gaz. vol. 214; p. 1134.
- Door-closer, Automatic. J. Neyer. No. 1,129,712; Feb. 23; Gaz. vol. 211; p. 1188.
- Door-closer or door-check. J. C. Moore. No. 1,130,923; Mar. 9; Gaz. vol. 212; p. 411.
- Door-closing device. C. W. Stites. No. 1,132,405; Mar. 16; Gaz. vol. 212; p. 970.
- Door, Composite. C. K. Olberg. No. 1,159,411; Nov. 9; Gaz. vol. 220; p. 381.
- Door construction, Sheet-metal. J. E. Frey and T. F. Berrill. No. 1,161,121; Nov. 23; Gaz. vol. 220; p. 1086.
- Door-controller. W. K. Henry. No. 1,155,310; Sept. 28; Gaz. vol. 218; p. 1124.
- Door-controlling device. E. Wyld and S. Schenck. (Re-issue.) No. 13,932; June 15; Gaz. vol. 215; p. 964.
- Door, Convertible. D. O. Clerkin. No. 1,125,061; Jan. 19; Gaz. vol. 210; p. 733.
- Door, Double. H. M. Leonard. No. 1,123,767; Jan. 5; Gaz. vol. 210; p. 195.

Alphabetical list of inventions—Continued.

- Door extension, Curtain. J. R. Elberg. No. 1,162,990; Dec. 7; Gaz. vol. 221; p. 89.
- Door-fastener. C. V. Hill. No. 1,123,741; Jan. 5; Gaz. vol. 210; p. 186.
- Door-fastener. R. Nies and W. Bowen. No. 1,165,895; Dec. 28; Gaz. vol. 221; p. 1229.
- Door-fastener. C. W. Worthington. No. 1,126,929; Feb. 2; Gaz. vol. 211; p. 93.
- Door fastener, Emergency-exit-. C. B. Woodard. No. 1,136,989; Apr. 27; Gaz. vol. 213; p. 1148.
- Door fastener, Screen-. W. B. Morrow. No. 1,155,953; Oct. 5; Gaz. vol. 219; p. 219.
- Door fastener, Sliding-. W. W. Decker. No. 1,128,420; Feb. 16; Gaz. vol. 211; p. 704.
- Door fastener, Sliding-. E. P. Farley and J. L. Rifer. No. 1,145,409; July 6; Gaz. vol. 216; p. 152.
- Door fastener, Sliding-. S. P. Glunt. No. 1,162,232; Nov. 30; Gaz. vol. 220; p. 1522.
- Door fastener, Sliding-. J. Pickering. No. 1,134,004; Mar. 30; Gaz. vol. 212; p. 1066.
- Door-fastening mechanism, Double-. A. F. Shepherd. No. 1,142,463; June 8; Gaz. vol. 215; p. 522.
- Door, Fire-resisting. T. Lee. No. 1,126,794; Feb. 2; Gaz. vol. 211; p. 46.
- Door, Grain-. B. Milbert. No. 1,165,694; Dec. 28; Gaz. vol. 221; p. 1160.
- Door, Grain-. O. J. Miller. No. 1,153,509; Sept. 14; Gaz. vol. 213; p. 445.
- Door, Grain-. G. R. Pratt. No. 1,127,089; Feb. 2; Gaz. vol. 211; p. 150.
- Door guide, Pivoted-. G. B. Kohler. No. 1,163,418; Dec. 7; Gaz. vol. 221; p. 239.
- Door-handle. W. Paton. No. 1,164,958; Dec. 21; Gaz. vol. 221; p. 863.
- Door-handle attachment. P. and J. Chorvath. No. 1,143,360; June 15; Gaz. vol. 215; p. 874.
- Door-hanger. J. F. Comee. No. 1,128,293; Feb. 16; Gaz. vol. 211; p. 662.
- Door-hanger. W. Coss and W. Stockhill. No. 1,154,001; Sept. 21; Gaz. vol. 218; p. 650.
- Door-hanger. C. Davidson. No. 1,136,658; Apr. 20; Gaz. vol. 213; p. 995.
- Door-hanger. H. F. Franklin. No. 1,130,159; Mar. 2; Gaz. vol. 212; p. 110.
- Door-hanger. P. Frantz. No. 1,165,329; Dec. 21; Gaz. vol. 221; p. 991.
- Door-hanger. F. M. Hahn. No. 1,144,901; June 29; Gaz. vol. 215; p. 1460.
- Door-hanger. P. L. Hoffman. No. 1,150,192; Aug. 17; Gaz. vol. 217; p. 775.
- Door-hanger. A. McPherson. No. 1,156,419; Oct. 12; Gaz. vol. 219; p. 406.
- Door-hanger. E. A. Nix. No. 1,145,163; July 6; Gaz. vol. 216; p. 66.
- Door-hanger. T. V. Plice. No. 1,134,288; Apr. 6; Gaz. vol. 213; p. 75.
- Door-hanger. L. Trabue. (Reissue.) No. 1,931; June 15; Gaz. vol. 215; p. 963.
- Door-hanger. G. F. Voight. No. 1,157,467; Oct. 19; Gaz. vol. 219; p. 805.
- Door-hanger. D. E. Willard. No. 1,155,390; Oct. 5; Gaz. vol. 219; p. 23.
- Door-hanger. S. J. Willner and G. Foleen. No. 1,133,080; Mar. 23; Gaz. vol. 212; p. 1266.
- Door-hanger means. A. B. Springstead. No. 1,139,734; May 18; Gaz. vol. 214; p. 781.
- Door-hanging mechanism. J. J. Byers. No. 1,126,955; Feb. 2; Gaz. vol. 211; p. 101.
- Door-hasp. J. D. Cessna. No. 1,149,809; Aug. 10; Gaz. vol. 217; p. 576.
- Door-holder. W. M. Brown. No. 1,149,424; Aug. 10; Gaz. vol. 217; p. 438.
- Door-holder. E. Franckaerts. No. 1,157,376; Oct. 19; Gaz. vol. 219; p. 773.
- Door-holder. E. O. Iversen. No. 1,159,036; Nov. 2; Gaz. vol. 220; p. 216.
- Door-holder. S. W. Parsons. No. 1,151,122; Aug. 24; Gaz. vol. 217; p. 1154.
- Door-holder. J. M. Spencer. No. 1,152,446; Sept. 7; Gaz. vol. 218; p. 22.
- Door-indicator. F. Williams. No. 1,162,837; Dec. 7; Gaz. vol. 221; p. 37.
- Door-lock. F. Bennett. No. 1,124,992; Jan. 12; Gaz. vol. 210; p. 673.
- Door-lock. L. F. Bonaly. No. 1,164,982; Dec. 21; Gaz. vol. 221; p. 872.
- Door-lock. W. R. Brennan. No. 1,131,992; Mar. 16; Gaz. vol. 212; p. 820.
- Door-lock. J. W. Clemmer, A. Rosendahl, and A. N. Halvorson. No. 1,124,862; Jan. 12; Gaz. vol. 210; p. 628.
- Door-lock. J. Ezykowich. No. 1,157,978; Oct. 26; Gaz. vol. 219; p. 1046.
- Door-lock. G. H. Johnson. No. 1,165,102; Dec. 21; Gaz. vol. 221; p. 914.
- Door-lock. W. F. Kemble and C. R. Underhill. No. 1,154,573; Sept. 21; Gaz. vol. 218; p. 847.
- Door-lock. A. W. MacKenzie. No. 1,146,086; July 13; Gaz. vol. 216; p. 410.
- Door-lock. E. Nilsen. No. 1,164,849; Dec. 21; Gaz. vol. 221; p. 825.
- Door-lock. W. Rehfuß. No. 1,161,972; Nov. 30; Gaz. vol. 220; p. 1431.
- Door-lock. J. Sedlacek. No. 1,154,271; Sept. 21; Gaz. vol. 218; p. 743.
- Door-lock. T. A. Spradley. No. 1,130,034; Mar. 2; Gaz. vol. 212; p. 67.
- Door-lock. W. E. Walker. No. 1,152,865; Sept. 7; Gaz. vol. 218; p. 179.
- Door-lock. B. E. Westlin. No. 1,132,755; Mar. 23; Gaz. vol. 212; p. 1147.
- Door-lock. I. W. Wilson. No. 1,124,373; Jan. 12; Gaz. vol. 210; p. 452.
- Door-lock. L. Zajac. No. 1,127,714; Feb. 9; Gaz. vol. 211; p. 407.
- Door-lock, Antirattling. E. F. Stoddard. No. 1,147,459; July 20; Gaz. vol. 216; p. 910.
- Door-lock, Electric. O. B. Schnerre. No. 1,165,542; Dec. 23; Gaz. vol. 221; p. 1105.
- Door-lock for fire-doors, Automatic. H. Scherer. No. 1,126,574; Jan. 26; Gaz. vol. 210; p. 1311.
- Door lock, Grain-. R. W. Burnett; No. 1,133,534; Mar. 30; Gaz. vol. 212; p. 1464.
- Door-lock, Gravity. M. Cossey. No. 1,130,150; Mar. 2; Gaz. vol. 212; p. 107.
- Door lock or fastener. J. G. Schneider. No. 1,166,009; Dec. 28; Gaz. vol. 221; p. 1263.
- Door lock, Sliding-. E. Bársony. No. 1,156,341; Oct. 12; Gaz. vol. 219; p. 376.
- Door lock, Sliding-. C. E. P. Gabriel. No. 1,144,537; June 29; Gaz. vol. 215; p. 1334.
- Door lock, Sliding-. W. B. Smith. No. 1,143,653; June 22; Gaz. vol. 215; p. 999.
- Door lock, Sliding-. E. W. Test and N. A. Leist. No. 1,161,085; Nov. 23; Gaz. vol. 220; p. 1073.
- Door lock, Sliding-. W. S. Woodward. No. 1,141,439; June 1; Gaz. vol. 215; p. 127.
- Door locking and operating mechanism. A. G. Sohn. No. 1,125,754; Jan. 19; Gaz. vol. 210; p. 981.
- Door locking and releasing device. W. L. Conwell. No. 1,125,066; Jan. 19; Gaz. vol. 210; p. 734.
- Door-locking device. A. Voigt. No. 1,131,752; Mar. 16; Gaz. vol. 212; p. 732.
- Door-locking device, Automatic. J. Dorneth. No. 1,150,422; Aug. 17; Gaz. vol. 217; p. 855.
- Door-locking mechanism. J. H. Willich. No. 1,124,372; Jan. 12; Gaz. vol. 210; p. 452.
- Door-mat. H. J. Otis. No. 1,139,899; May 18; Gaz. vol. 214; p. 840.
- Door mechanism, Drop-. C. E. Wickersham. No. 1,153,146; Sept. 7; Gaz. vol. 218; p. 275.
- Door, Metal. A. L. Abrahams. No. 1,143,245; June 15; Gaz. vol. 215; p. 835.
- Door, Metal. S. G. Bolin. No. 1,138,837; May 11; Gaz. vol. 214; p. 431.
- Door, Metal. J. E. Frey and T. F. Berrill. No. 1,150,755; Aug. 17; Gaz. vol. 217; p. 970.
- Door, Metal. E. Gustafson. No. 1,153,549; Sept. 14; Gaz. vol. 218; p. 460.
- Door, Metal. P. E. Hegstedt. No. 1,138,105; May 4; Gaz. vol. 214; p. 135.
- Door, Metal. P. E. Hegstedt. No. 1,153,306; Sept. 14; Gaz. vol. 218; p. 369.
- Door, Metal. O. H. Jacobson. No. 1,162,722; Nov. 30; Gaz. vol. 220; p. 1687.
- Door, Metal. C. W. Renner. No. 1,159,993; Nov. 9; Gaz. vol. 220; p. 590.
- Door, Metallic. J. I. Lempera. No. 1,150,132; Aug. 17; Gaz. vol. 217; p. 753.
- Door, Metallic. A. J. Malmberg. No. 1,129,041; Feb. 16; Gaz. vol. 211; p. 922.
- Door, Metallic. A. J. Malmberg. No. 1,129,042; Feb. 16; Gaz. vol. 211; p. 922.
- Door, Metallic. A. J. Malmberg. No. 1,129,043; Feb. 16; Gaz. vol. 211; p. 923.
- Door-motor. J. F. McElroy. No. 1,145,908; July 13; Gaz. vol. 216; p. 345.
- Door-opener. G. O. Hyland. No. 1,142,171; June 8; Gaz. vol. 215; p. 418.
- Door opening and closing apparatus, Automatic. G. M. Beerbower. No. 1,134,810; Apr. 6; Gaz. vol. 213; p. 264.
- Door opening and closing means. A. Höhne and H. Krake. No. 1,129,391; Feb. 23; Gaz. vol. 211; p. 1079.
- Door operating and closing mechanism. A. P. Felsberg. No. 1,151,773; Aug. 31; Gaz. vol. 217; p. 1422.
- Door operating and controlling mechanism. C. Anderson. No. 1,145,736; July 6; Gaz. vol. 216; p. 267.
- Door operating and locking device. L. C. Norton. No. 1,129,046; Feb. 16; Gaz. vol. 211; p. 924.
- Door operating and locking device. H. Pitts. No. 1,139,905; May 18; Gaz. vol. 214; p. 842.
- Door operating and locking mechanism, Jail-. J. A. Loyster. No. 1,136,351; Apr. 20; Gaz. vol. 213; p. 885.
- Door-operating device. L. C. Norton. No. 1,132,027; Mar. 16; Gaz. vol. 212; p. 832.
- Door-operating device. L. C. Norton. No. 1,138,306; May 4; Gaz. vol. 214; p. 204.
- Door-operating device, Fluid-pressure. A. Gottschalk. No. 1,134,608; Apr. 6; Gaz. vol. 213; p. 191.
- Door-operating mechanism. H. T. Anderson. No. 1,160,559; Nov. 16; Gaz. vol. 220; p. 841.
- Door-operating mechanism. M. C. Blest. No. 1,160,828; Nov. 16; Gaz. vol. 220; p. 938.

Alphabetical list of inventions—Continued.

- Door-operating mechanism. G. M. Derry. No. 1,142,405; June 8; Gaz. vol. 215; p. 502.
- Door-operating mechanism. J. S. Doyle. No. 1,145,881; July 13; Gaz. vol. 216; p. 337.
- Door-operating mechanism. R. N. Flint. No. 1,134,325; Apr. 6; Gaz. vol. 213; p. 89.
- Door-operating mechanism. L. C. Norton. No. 1,124,940; Jan. 12; Gaz. vol. 210; p. 655.
- Door-operating mechanism. J. M. Rohlfing. No. 1,149,219; Aug. 10; Gaz. vol. 217; p. 362.
- Door or window adjuster. C. J. Hagstrom. No. 1,125,517; Jan. 19; Gaz. vol. 210; p. 896.
- Door, Pier-. H. T. Goss. No. 1,163,907; Dec. 14; Gaz. vol. 221; p. 455.
- Door-pivot. J. A. Cross. No. 1,161,623; Nov. 23; Gaz. vol. 220; p. 1264.
- Door, Pivoted. G. Benisch. No. 1,147,361; July 20; Gaz. vol. 216; p. 874.
- Door-releasing apparatus, Automatic. L. M. Mochau. No. 1,165,436; Dec. 28; Gaz. vol. 221; p. 1069.
- Door, Revolving. H. W. Dyer. No. 1,159,367; Nov. 9; Gaz. vol. 220; p. 365.
- Door safety-bolt. E. M. Hoagland. No. 1,154,862; Sept. 28; Gaz. vol. 218; p. 972.
- Door-securer. F. B. Prante. No. 1,150,621; Aug. 17; Gaz. vol. 217; p. 925.
- Door-securer. F. Robinson. No. 1,128,363; Feb. 16; Gaz. vol. 211; p. 685.
- Door securer, holder, or fastener. O. H. Willard. No. 1,154,822; Sept. 28; Gaz. vol. 218; p. 960.
- Door-securing mechanism. E. E. Allen. No. 1,160,814; Nov. 16; Gaz. vol. 220; p. 933.
- Door, Self-sorting hog-house. W. L. Gillilan. No. 1,154,760; Sept. 28; Gaz. vol. 218; p. 940.
- Door-sheave. J. Millan. No. 1,150,288; Aug. 17; Gaz. vol. 217; p. 810.
- Door, Sheet-metal. J. C. Anderson. No. 1,146,470; July 13; Gaz. vol. 216; p. 546.
- Door, Silo-. C. Cammack. No. 1,123,680; Jan. 5; Gaz. vol. 210; p. 165.
- Door, Silo-. G. A. Leonard. No. 1,123,560; Jan. 5; Gaz. vol. 210; p. 123.
- Door-skid, Antifriction. I. A. Lake. No. 1,124,033; Jan. 5; Gaz. vol. 210; p. 283.
- Door, Sliding. D. B. Bryan. No. 1,163,065; Dec. 7; Gaz. vol. 221; p. 115.
- Door, Sliding. J. Van Kolken. No. 1,134,781; Apr. 6; Gaz. vol. 213; p. 255.
- Door-spring. C. Wirth. No. 1,145,731; July 6; Gaz. vol. 216; p. 266.
- Door-spring. W. W. Wolfe. No. 1,157,274; Oct. 19; Gaz. vol. 219; p. 738.
- Door-stop. J. H. Snow. No. 1,163,478; Dec. 7; Gaz. vol. 221; p. 260.
- Door stop and holder. H. Weder, Sr., and C. H. Wolff. No. 1,132,412; Mar. 16; Gaz. vol. 212; p. 972.
- Door stop and retainer. S. Belanski. No. 1,127,854; Feb. 9; Gaz. vol. 211; p. 459.
- Door stop, Sliding-. F. Coe. No. 1,145,974; July 13; Gaz. vol. 216; p. 369.
- Door-support. S. J. Hopper and H. Soley. No. 1,130,975; Mar. 9; Gaz. vol. 212; p. 428.
- Door-supporting clamp. O. E. Johnson. No. 1,165,975; Dec. 28; Gaz. vol. 221; p. 1256.
- Door-supporting clamp. A. B. Morse. No. 1,136,701; Apr. 20; Gaz. vol. 213; p. 1010.
- Door-supporting means, Sliding. J. L. Dean. No. 1,161,626; Nov. 23; Gaz. vol. 220; p. 1265.
- Door, Swinging. U. E. Tuomi. No. 1,160,676; Nov. 16; Gaz. vol. 220; p. 885.
- Door-trim, Metal. C. J. Swanson. No. 1,150,790; Aug. 17; Gaz. vol. 217; p. 982.
- Doors, Automatic locking and unlocking of railway-carriage. M. Evans. No. 1,165,581; Dec. 28; Gaz. vol. 221; p. 1118.
- Doors, Buffer device for. A. S. Cheston. No. 1,128,105; Feb. 9; Gaz. vol. 211; p. 543.
- Doors, gates, &c., Apparatus for opening and closing. F. D. Brown and J. H. Werling. No. 1,126,380; Jan. 26; Gaz. vol. 210; p. 1238.
- Doors, Means for operating and locking sliding. M. J. Flannery. No. 1,151,260; Aug. 24; Gaz. vol. 217; p. 1201.
- Doors, Means for slidingly supporting folding. E. J. G. Phillips. No. 1,160,193; Nov. 16; Gaz. vol. 220; p. 714.
- Doors, partitions, and the like, Making sheet-metal. J. H. Gravell. No. 1,156,898; Oct. 19; Gaz. vol. 219; p. 603.
- Doors, Pilot for sliding. H. W. Troth. No. 1,146,673; July 13; Gaz. vol. 216; p. 615.
- Doors, Separator and track for sliding. A. Voigt. No. 1,136,631; Apr. 20; Gaz. vol. 213; p. 985.
- Doors, Stay-roller for sliding. F. H. Heise. No. 1,123,287; Jan. 5; Gaz. vol. 210; p. 29.
- Doors, steps, or the like, Pneumatic operating mechanism for. G. M. Spencer. No. 1,134,648; Apr. 6; Gaz. vol. 213; p. 206.
- Doors, Universal adjustable pivot for swinging. G. Benisch. No. 1,147,360; July 20; Gaz. vol. 216; p. 874.
- Doors, windows, and the like, Fastening for. T. Markham. No. 1,136,430; Apr. 20; Gaz. vol. 213; p. 915.
- Dose-indicator. J. S. Dunn and C. A. Weiss. No. 1,129,384; Feb. 23; Gaz. vol. 211; p. 1077.
- Double-acting leaf-spring. A. Travis. No. 1,147,578; July 20; Gaz. vol. 216; p. 951.
- Doubletree-clip. D. B. Jacobs. No. 1,126,477; Jan. 26; Gaz. vol. 210; p. 1272.
- Doubling, twisting, and quilling machine. F. Seymour. No. 1,146,027; July 13; Gaz. vol. 216; p. 389.
- Dough and like plastic material, Apparatus for treating. L. Embrey. No. 1,147,491; July 20; Gaz. vol. 216; p. 921.
- Dough and like plastic materials, Apparatus for molding, shaping, and compressing. J. Callow. No. 1,131,328; Mar. 9; Gaz. vol. 212; p. 550.
- Dough and like plastic substances, Machine for dividing. G. S. and G. R. Baker. No. 1,162,898; Dec. 7; Gaz. vol. 221; p. 57.
- Dough and other plastic material, Apparatus for dividing and molding. J. and H. L. Callow. No. 1,131,329; Mar. 9; Gaz. vol. 212; p. 551.
- Dough-cutter. M. Devine. No. 1,147,380; July 20; Gaz. vol. 216; p. 882.
- Dough-divider, Automatic. F. H. Van Houten. No. 1,129,765; Feb. 23; Gaz. vol. 211; p. 1206.
- Dough dividing and working machine. H. Bertram. No. 1,150,655; Aug. 17; Gaz. vol. 217; p. 937.
- Dough-dividing machine. F. H. Van Houten. No. 1,158,339; Oct. 26; Gaz. vol. 219; p. 1171.
- Dough-dividing machine. A. F. Ward. No. 1,144,952; June 29; Gaz. vol. 215; p. 1475.
- Dough-holding apparatus. L. Eckel. No. 1,163,814; Dec. 14; Gaz. vol. 221; p. 424.
- Dough-leaf support or receptacle. F. J. Wolff. No. 1,162,427; Nov. 30; Gaz. vol. 220; p. 1539.
- Dough, Machine for forming loaves from masses of. R. Wolf. No. 1,126,606; Jan. 26; Gaz. vol. 210; p. 1322.
- Dough, Machine for spacing lumps of. F. H. Van Houten. No. 1,160,791; Nov. 16; Gaz. vol. 220; p. 924.
- Dough, Machine for spacing lumps of. F. H. Van Houten. No. 1,160,792; Nov. 16; Gaz. vol. 220; p. 924.
- Dough-mixer and process. H. W. Buschmeyer. No. 1,147,924; July 27; Gaz. vol. 216; p. 1099.
- Dough, Mixing. J. C. Gordon. No. 1,134,329; Apr. 6; Gaz. vol. 213; p. 90.
- Dough mixing and kneading machine. S. W. Noggle. No. 1,153,246; Sept. 14; Gaz. vol. 218; p. 349.
- Dough-mixing machine. J. C. Gordon. No. 1,134,328; Apr. 6; Gaz. vol. 213; p. 90.
- Dough-mixing machine. A. Roth. No. 1,142,461; June 8; Gaz. vol. 215; p. 522.
- Dough-mixing machinery, Bread-. L. A. Roberts. No. 1,123,595; Jan. 5; Gaz. vol. 210; p. 135.
- Dough-molding machine. D. K. Allison. No. 1,163,626; Dec. 7; Gaz. vol. 221; p. 312.
- Dough-molding machinery. J. E. Poynton. No. 1,157,579; Oct. 19; Gaz. vol. 219; p. 842.
- Dough-molding machinery. W. H. Rippin. No. 1,125,399; Jan. 19; Gaz. vol. 210; p. 856.
- Dough preparatory to baking, Apparatus for proving. G. S. Baker. No. 1,141,600; June 1; Gaz. vol. 215; p. 183.
- Dough-proofing machine. F. J. Wolff. No. 1,147,352; July 20; Gaz. vol. 216; p. 870.
- Dough-proving apparatus. J. Callow. No. 1,130,568; Mar. 2; Gaz. vol. 212; p. 255.
- Dough-raiser. E. C. Meyer. No. 1,164,299; Dec. 14; Gaz. vol. 221; p. 591.
- Dough-raiser. A. Schnebelen. No. 1,143,787; June 22; Gaz. vol. 215; p. 1044.
- Dough-raising device. B. Ames. No. 1,162,897; Dec. 7; Gaz. vol. 221; p. 56.
- Dough-rolling-machine feeding device. W. Ehrhart. No. 1,158,908; Nov. 2; Gaz. vol. 220; p. 174.
- Dough-rounding-up machine. F. H. Van Houten, Jr. No. 1,153,359; Sept. 14; Gaz. vol. 218; p. 391.
- Dough sheeting and feeding mechanism, Continuous. K. D. Loose. No. 1,134,971; Apr. 6; Gaz. vol. 213; p. 316.
- Dough-sheeting mechanism, Continuous. E. E. Lawrence. No. 1,134,970; Apr. 6; Gaz. vol. 213; p. 316.
- Dough, Treatment of. G. Lunt. No. 1,143,413; June 15; Gaz. vol. 215; p. 894.
- Doughnut-drainer. L. M. Schultz. No. 1,154,812; Sept. 28; Gaz. vol. 218; p. 957.
- Dovetailing mechanism. O. C. Wysong. No. 1,166,299; Dec. 28; Gaz. vol. 221; p. 1375.
- Dowel. C. E. Evans. (Reissue.) No. 13,915; May 11; Gaz. vol. 214; p. 653.
- Dowel connection. R. W. Erwin. No. 1,136,111; Apr. 20; Gaz. vol. 213; p. 799.
- Dowel-feeding machine. E. Curran. No. 1,132,533; Mar. 16; Gaz. vol. 212; p. 1017.
- Dowel-pin. J. T. Gilmer. No. 1,150,358; Aug. 17; Gaz. vol. 217; p. 834.
- Doweling device. E. Earle. No. 1,153,841; Sept. 14; Gaz. vol. 218; p. 561.
- Doweling-machine. J. R. Frantz. No. 1,137,854; May 4; Gaz. vol. 214; p. 46.
- Downdraft continuous kiln. F. D. Shaw. No. 1,133,582; Mar. 30; Gaz. vol. 212; p. 1481.
- Downdraft continuous kiln. F. D. Shaw. No. 1,140,719; May 25; Gaz. vol. 214; p. 1160.

Alphabetical list of inventions—Continued.

- Draft and buffing apparatus, Friction. J. H. McCormick. No. 1,130,416; Mar. 2; Gaz. vol. 212; p. 200.
- Draft and buffing apparatus, Friction. J. H. McCormick. No. 1,136,022; Apr. 20; Gaz. vol. 213; p. 770.
- Draft appliance. L. L. Goller. No. 1,143,535; June 15; Gaz. vol. 215; p. 933.
- Draft appliance. H. C. Huff. No. 1,130,516; Mar. 2; Gaz. vol. 212; p. 237.
- Draft appliance. J. B. Pyles. No. 1,161,340; Nov. 23; Gaz. vol. 220; p. 1165.
- Draft appliance, Convertible. C. D. Long. No. 1,133,981; Mar. 30; Gaz. vol. 212; p. 1619.
- Draft-arm. W. H. Miner. No. 1,128,346; Feb. 16; Gaz. vol. 211; p. 679.
- Draft-arm. J. R. Stuart. No. 1,151,734; Aug. 31; Gaz. vol. 217; p. 1408.
- Draft attachment. J. E. Nix. No. 1,159,983; Nov. 9; Gaz. vol. 220; p. 587.
- Draft attachment for chimneys or stacks. J. L. Retaliata, Jr. No. 1,136,914; Apr. 20; Gaz. vol. 213; p. 1086.
- Draft connection, Tandem. H. B. Sperry. No. 1,161,991; Nov. 30; Gaz. vol. 220; p. 1438.
- Draft device. M. R. Cowell. No. 1,123,993; Jan. 5; Gaz. vol. 210; p. 269.
- Draft device. J. Dain. No. 1,152,936; Sept. 7; Gaz. vol. 218; p. 203.
- Draft device. P. R. Kusske. No. 1,135,116; Apr. 13; Gaz. vol. 213; p. 413.
- Draft device. N. K. Olmsted. No. 1,141,259; June 1; Gaz. vol. 215; p. 59.
- Draft-equalizer. A. G. Dunnuck. No. 1,123,998; Jan. 5; Gaz. vol. 210; p. 270.
- Draft-equalizer. A. G. Dunnuck. No. 1,154,104; Sept. 21; Gaz. vol. 218; p. 686.
- Draft-equalizer. J. Gross. No. 1,133,279; Mar. 30; Gaz. vol. 212; p. 1372.
- Draft-equalizer. O. T. Hoyt. No. 1,153,388; Sept. 14; Gaz. vol. 218; p. 401.
- Draft-equalizer. R. A. McCall. No. 1,129,997; Mar. 2; Gaz. vol. 212; p. 56.
- Draft-equalizer. C. Peterson. No. 1,133,179; Mar. 23; Gaz. vol. 212; p. 1302.
- Draft-equalizer. W. Raduechel. No. 1,144,915; June 29; Gaz. vol. 215; p. 1463.
- Draft-equalizer. L. H. Ruch. No. 1,147,647; July 20; Gaz. vol. 216; p. 976.
- Draft-equalizer. L. H. Soens. No. 1,163,379; Dec. 7; Gaz. vol. 221; p. 226.
- Draft-equalizer. J. N. Taylor. No. 1,146,823; July 20; Gaz. vol. 216; p. 686.
- Draft-equalizer. F. W. Ziemendorf. No. 1,146,297; July 13; Gaz. vol. 216; p. 482.
- Draft-elever. E. J. Brady. No. 1,162,021; Nov. 30; Gaz. vol. 220; p. 1449.
- Draft-gage. L. M. Ellison. No. 1,145,676; July 6; Gaz. vol. 216; p. 244.
- Draft-gear. L. T. Canfield. No. 1,123,482; Jan. 5; Gaz. vol. 210; p. 97.
- Draft-gear. J. R. Cardwell. No. 1,137,951; May 4; Gaz. vol. 214; p. 80.
- Draft-gear. H. A. Christy. No. 1,165,751; Dec. 28; Gaz. vol. 221; p. 1180.
- Draft-gear. H. A. Christy. No. 1,165,752; Dec. 28; Gaz. vol. 221; p. 1180.
- Draft-gear. W. H. Cotton. No. 1,158,449; Nov. 2; Gaz. vol. 220; p. 14.
- Draft-gear. J. F. Courson. No. 1,123,853; Jan. 5; Gaz. vol. 210; p. 223.
- Draft-gear. J. F. Courson. No. 1,131,472; Mar. 9; Gaz. vol. 212; p. 600.
- Draft-gear. J. F. Courson. No. 1,149,733; Aug. 10; Gaz. vol. 217; p. 548.
- Draft-gear. J. F. Courson. No. 1,156,670; Oct. 12; Gaz. vol. 219; p. 495.
- Draft-gear. J. F. Courson. No. 1,161,032; Nov. 23; Gaz. vol. 220; p. 1054.
- Draft-gear. J. F. Courson. No. 1,162,574; Nov. 30; Gaz. vol. 220; p. 1638.
- Draft-gear. W. D. Forsyth. No. 1,130,387; Mar. 2; Gaz. vol. 212; p. 190.
- Draft-gear. W. D. Forsyth. No. 1,130,388; Mar. 2; Gaz. vol. 212; p. 190.
- Draft-gear. S. Hansson and I. Moeller. No. 1,155,808; Oct. 5; Gaz. vol. 219; p. 169.
- Draft-gear. C. J. Nash. No. 1,140,311; May 18; Gaz. vol. 214; p. 983.
- Draft-gear. T. H. Symington. No. 1,126,663; Jan. 26; Gaz. vol. 210; p. 1341.
- Draft-gear. J. M. Waugh. No. 1,123,443; Jan. 5; Gaz. vol. 210; p. 85.
- Draft-gear. J. M. Waugh. No. 1,143,154; June 15; Gaz. vol. 215; p. 801.
- Draft-gear attachment. H. F. Woernley. No. 1,136,079; Apr. 20; Gaz. vol. 213; p. 788.
- Draft-gear, Friction. E. W. Newell. No. 1,141,138; June 1; Gaz. vol. 215; p. 16.
- Draft-gear, Friction. E. W. Newell. No. 1,165,622; Dec. 28; Gaz. vol. 221; p. 1134.
- Draft-gear, Friction. J. M. Rohlfing. No. 1,141,093; May 25; Gaz. vol. 214; p. 1291.
- Draft-gear, Friction. J. M. Rohlfing. No. 1,141,094; May 25; Gaz. vol. 214; p. 1292.
- Draft-gear, Friction. J. J. Tatum. No. 1,146,772; July 13; Gaz. vol. 216; p. 648.
- Draft-gear, Friction. H. H. Westinghouse. No. 1,136,073; Apr. 20; Gaz. vol. 213; p. 786.
- Draft-gear, High-capacity twin friction. J. F. O'Connor. No. 1,130,998; Mar. 9; Gaz. vol. 212; p. 436.
- Draft-gear mechanism. D. F. Crawford. (Reissue.) No. 13,894; Mar. 30; Gaz. vol. 212; p. 1856.
- Draft-gear, Twin-arranged friction. J. F. O'Connor. No. 1,130,013; Mar. 2; Gaz. vol. 212; p. 60.
- Draft-gears, Removable assembled. W. D. Forsyth. No. 1,130,386; Mar. 2; Gaz. vol. 212; p. 190.
- Draft-hook. J. R. King. No. 1,165,606; Dec. 28; Gaz. vol. 221; p. 1128.
- Draft mechanism. S. J. Matthews. No. 1,146,339; July 13; Gaz. vol. 216; p. 496.
- Draft-regulator. A. J. Anderson. No. 1,157,490; Oct. 19; Gaz. vol. 219; p. 813.
- Draft-regulator. S. E. Burke. No. 1,131,036; Mar. 9; Gaz. vol. 212; p. 450.
- Draft-regulator. D. W. Gutting. No. 1,148,164; July 27; Gaz. vol. 216; p. 1186.
- Draft-regulator. H. E. Reece. No. 1,143,917; June 22; Gaz. vol. 215; p. 1088.
- Draft-regulator and smoke-purifier. J. A. and M. L. McFerran. No. 1,142,721; June 8; Gaz. vol. 215; p. 607.
- Draft-rigging. A. Anderson. No. 1,153,007; Sept. 7; Gaz. vol. 218; p. 230.
- Draft-rigging. O. Anderson. No. 1,134,576; Apr. 8; Gaz. vol. 213; p. 180.
- Draft-rigging. P. Brown. No. 1,131,205; Mar. 9; Gaz. vol. 212; p. 507.
- Draft-rigging. P. Brown. No. 1,156,881; Oct. 19; Gaz. vol. 219; p. 596.
- Draft-rigging. G. De Fernanzo. No. 1,141,696; June 1; Gaz. vol. 215; p. 216.
- Draft-rigging. G. H. Forsyth. No. 1,145,887; July 13; Gaz. vol. 216; p. 338.
- Draft-rigging. S. B. Haseltine. No. 1,160,603; Nov. 16; Gaz. vol. 220; p. 857.
- Draft-rigging. C. J. Nash. No. 1,143,303; June 15; Gaz. vol. 215; p. 854.
- Draft-rigging construction. G. H. Forsyth. No. 1,145,886; July 13; Gaz. vol. 216; p. 338.
- Draft-rigging, Friction. C. K. Brooks. No. 1,163,735; Dec. 14; Gaz. vol. 221; p. 395.
- Draft-rigging, Friction. J. F. O'Connor. No. 1,136,035; Apr. 20; Gaz. vol. 213; p. 774.
- Draft-rigging, Friction. J. F. O'Connor. No. 1,151,379; Aug. 24; Gaz. vol. 217; p. 1239.
- Draft-rigging, Friction. E. H. Schmidt. No. 1,130,439; Mar. 2; Gaz. vol. 212; p. 209.
- Draft-rigging, Friction. C. A. Tower. No. 1,154,967; Sept. 28; Gaz. vol. 218; p. 1009.
- Draft-rigging, Machine for testing and registering the action of. W. H. Miner. No. 1,137,999; May 4; Gaz. vol. 214; p. 96.
- Draft-rigging mechanism. G. H. Forsyth. No. 1,137,961; May 4; Gaz. vol. 214; p. 84.
- Draft-rigging parts, Making. G. Q. Lewis. No. 1,125,570; Jan. 19; Gaz. vol. 210; p. 914.
- Draft-rigging, Railway. J. F. O'Connor. No. 1,136,038; Apr. 20; Gaz. vol. 213; p. 775.
- Draft-rigging, Single-center-sill. A. Copony. No. 1,137,950; May 4; Gaz. vol. 214; p. 80.
- Draft-rigging stop member. W. A. Geiger. No. 1,139,665; May 18; Gaz. vol. 214; p. 758.
- Draft-wheel. N. L. Olson. No. 1,151,381; Aug. 24; Gaz. vol. 217; p. 1240.
- Drafting-board. C. B. Ulrich. No. 1,147,908; July 27; Gaz. vol. 216; p. 1093.
- Drafting conic sections, Instrument for. J. D. Keppy. No. 1,139,298; May 11; Gaz. vol. 214; p. 590.
- Drafting implement. V. A. Rigaumont. No. 1,145,922; July 13; Gaz. vol. 216; p. 350.
- Drafting implement. C. L. Van Ness. No. 1,154,673; Sept. 28; Gaz. vol. 218; p. 911.
- Drafting implement, Combination. J. E. Bailey. No. 1,139,746; May 18; Gaz. vol. 214; p. 785.
- Drafting instrument. R. B. Allyn. No. 1,156,512; Oct. 12; Gaz. vol. 219; p. 439.
- Drafting instrument. E. Z. Lesh. No. 1,127,033; Feb. 2; Gaz. vol. 211; p. 131.
- Drafting instrument. P. Olmsted. No. 1,143,431; June 15; Gaz. vol. 215; p. 900.
- Drafting instrument. C. G. Row. No. 1,142,368; June 8; Gaz. vol. 215; p. 487.
- Drafting instrument, Skirt. F. Breirly. No. 1,142,298; June 8; Gaz. vol. 215; p. 462.
- Draftsman's tool. L. J. Heathcote. No. 1,155,059; Sept. 28; Gaz. vol. 218; p. 1040.
- Drag, grader, and ditcher, Combination. M. H. McCaulou. No. 1,126,805; Feb. 2; Gaz. vol. 211; p. 50.
- Drag-link device. F. H. Whitman. No. 1,135,237; Apr. 13; Gaz. vol. 213; p. 452.
- Drag or grader, Road. G. E. Smith. No. 1,151,835; Aug. 31; Gaz. vol. 217; p. 1444.
- Drag, Road. J. Bolton. No. 1,127,380; Feb. 2; Gaz. vol. 211; p. 249.
- Drag, Road. H. K. Clemons. No. 1,146,476; July 13; Gaz. vol. 216; p. 548.

Alphabetical list of inventions—Continued.

- Drag, Road-. H. M. Davis. No. 1,138,735; May 11; Gaz. vol. 214; p. 394.
- Drag, Road-. H. G. Moscherrosch and C. F. Brocker. No. 1,129,359; Feb. 23; Gaz. vol. 211; p. 1068.
- Drain. G. J. Dehn. No. 1,139,647; May 18; Gaz. vol. 214; p. 751.
- Drain. J. Hirschstein. No. 1,127,246; Feb. 2; Gaz. vol. 211; p. 205.
- Drain, Floor-. C. B. Comstock. No. 1,143,174; June 15; Gaz. vol. 215; p. 808.
- Drain, Floor-. G. J. Dehn. No. 1,123,705; Jan. 5; Gaz. vol. 210; p. 173.
- Drain-head. J. W. Stewart. No. 1,150,400; Aug. 17; Gaz. vol. 217; p. 848.
- Drain, Land-. A. C. Johnson. No. 1,140,903; May 25; Gaz. vol. 214; p. 1227.
- Drain-pipe trap. J. L. Werbach. No. 1,142,469; June 8; Gaz. vol. 215; p. 524.
- Drain-trap. H. A. Poppenhusen. No. 1,127,510; Feb. 9; Gaz. vol. 211; p. 337.
- Drains, vents, and other purposes, Flange for. J. R. Smith. No. 1,150,231; Aug. 17; Gaz. vol. 217; p. 789.
- Drainage and reclamation of inundated surfaces of land, System and apparatus for the. E. C. Sooy. No. 1,142,125; June 8; Gaz. vol. 215; p. 404.
- Drainage and vent fitting. C. S. C. Rock. No. 1,165,127; Dec. 21; Gaz. vol. 221; p. 924.
- Drainage apparatus. G. A. Bricker. No. 1,143,938; June 22; Gaz. vol. 215; p. 1097.
- Drainage-system tester. G. L. Kelly. No. 1,159,950; Nov. 9; Gaz. vol. 220; p. 576.
- Drainage-trap. D. A. Deacon. No. 1,128,418; Feb. 16; Gaz. vol. 211; p. 703.
- Drainboard for sinks. J. F. Tighe. No. 1,149,478; Aug. 10; Gaz. vol. 217; p. 455.
- Drainer, Dish-. O. P. Grande. No. 1,165,665; Dec. 28; Gaz. vol. 221; p. 1150.
- Draining device. A. J. Zamzow. No. 1,163,877; Dec. 14; Gaz. vol. 221; p. 445.
- Draining land. E. W. Appelman. No. 1,129,324; Feb. 23; Gaz. vol. 211; p. 1055.
- Drapery-bracket. C. E. Huffman. No. 1,131,242; Mar. 9; Gaz. vol. 212; p. 520.
- Drapery-hanger. T. F. Byron. No. 1,149,628; Aug. 10; Gaz. vol. 217; p. 512.
- Drapery-hanger. T. F. Byron. No. 1,160,573; Nov. 16; Gaz. vol. 220; p. 846.
- Drapery-hook. H. S. Brewington. No. 1,143,100; June 15; Gaz. vol. 215; p. 783.
- Drapery-pole support. A. L. Holland. No. 1,134,535; Apr. 6; Gaz. vol. 213; p. 165.
- Draw-bar and coupling-connector. W. H. Mahoney. No. 1,141,810; June 1; Gaz. vol. 215; p. 253.
- Draw-bar attachment. E. P. Clark. No. 1,135,880; Apr. 13; Gaz. vol. 213; p. 678.
- Draw-bar carry-iron. C. T. Westlake. No. 1,125,420; Jan. 19; Gaz. vol. 210; p. 863.
- Draw-bar-centering mechanism. F. S. Gallagher. No. 1,156,283; Oct. 12; Gaz. vol. 219; p. 355.
- Draw-bar, Collapsible. A. A. Nelson. No. 1,148,791; Aug. 3; Gaz. vol. 217; p. 111.
- Draw-bench. G. W. Frohlich. No. 1,129,660; Feb. 23; Gaz. vol. 211; p. 1172.
- Draw-gear and buffing apparatus. J. H. McCormick. No. 1,127,657; Feb. 9; Gaz. vol. 211; p. 385.
- Draw-gear and buffing apparatus. J. H. McCormick. No. 1,127,658; Feb. 9; Gaz. vol. 211; p. 385.
- Draw-head. J. H. Richey. No. 1,124,952; Jan. 12; Gaz. vol. 210; p. 659.
- Draw-head and air-coupling. Combined. L. and J. Le Compte. No. 1,140,382; May 25; Gaz. vol. 214; p. 1043.
- Drawbridge. H. A. Icke. No. 1,140,984; May 25; Gaz. vol. 214; p. 1255.
- Drawbridge, circuit-controller. F. Marsellis. No. 1,139,047; May 11; Gaz. vol. 214; p. 506.
- Drawer construction, Cabinet-. J. C. and W. A. Moore and E. Wade. No. 1,143,297; June 15; Gaz. vol. 215; p. 852.
- Drawer construction, Extension-. J. F. Schaefer. No. 1,160,455; Nov. 16; Gaz. vol. 220; p. 802.
- Drawer-equalizer. J. A. Carlson. No. 1,148,573; Aug. 3; Gaz. vol. 217; p. 33.
- Drawer-follower. A. H. Schaffert. No. 1,154,211; Sept. 21; Gaz. vol. 218; p. 721.
- Drawer for cabinets and other articles of furniture. A. H. Schaffert. No. 1,129,831; Feb. 23; Gaz. vol. 211; p. 1229.
- Drawer-guide. W. O. Gottwalls. No. 1,159,490; Nov. 9; Gaz. vol. 220; p. 409.
- Drawer-locking mechanism. E. Ohnstrand. No. 1,124,791; Jan. 12; Gaz. vol. 210; p. 602.
- Drawer-locking mechanism. E. Ohnstrand. No. 1,157,032; Oct. 19; Gaz. vol. 219; p. 652.
- Drawer, Metallic furniture-. A. T. Weiss. No. 1,136,071; Apr. 20; Gaz. vol. 213; p. 786.
- Drawer or slide equalizer. A. M. Woltz. No. 1,124,570; Jan. 12; Gaz. vol. 210; p. 523.
- Drawer, Roller extension-. A. T. Weiss. No. 1,135,235; Apr. 13; Gaz. vol. 213; p. 452.
- Drawer, Secret. A. A. Anderson. No. 1,147,998; July 27; Gaz. vol. 216; p. 1125.
- Drawer-slide and the like. H. J. Pfeiffer. No. 1,161,330; Nov. 23; Gaz. vol. 220; p. 1161.
- Drawer-slide, Reinforced extension. A. K. Loftin and C. S. Murphy. No. 1,135,704; Apr. 13; Gaz. vol. 213; p. 618.
- Drawer-support. M. R. Bodine. No. 1,164,571; Dec. 14; Gaz. vol. 221; p. 686.
- Drawer, Tilting. E. Morris. No. 1,137,074; Apr. 27; Gaz. vol. 213; p. 1180.
- Drawers, Dust-joint for. E. Morris. No. 1,137,073; Apr. 27; Gaz. vol. 213; p. 1180.
- Drawers, &c., Fastener for. R. L. Telford. No. 1,142,994; June 15; Gaz. vol. 215; p. 745.
- Drawers, Man's and boy's. T. M. Browning. No. 1,134,102; Apr. 6; Gaz. vol. 213; p. 7.
- Drawing-board. A. G. Borntraeger. No. 1,164,253; Dec. 14; Gaz. vol. 221; p. 574.
- Drawing-board and writing-desk, Educational-chart. G. A. Henderson. No. 1,158,212; Oct. 26; Gaz. vol. 219; p. 1127.
- Drawing-board attachment. E. E. Barnard. No. 1,139,011; May 11; Gaz. vol. 214; p. 493.
- Drawing-board attachment. W. N. Spitzer. No. 1,129,243; Feb. 23; Gaz. vol. 211; p. 1027.
- Drawing-board foldable support. J. A. Daly. No. 1,126,410; Jan. 26; Gaz. vol. 210; p. 1248.
- Drawing-board support. F. W. Hutton and E. F. Worst. No. 1,163,755; Dec. 14; Gaz. vol. 221; p. 404.
- Drawing-frames, Clearer for. F. MarcAurele. No. 1,151,281; Aug. 24; Gaz. vol. 217; p. 1209.
- Drawing implement, Curve-. B. Szillard. No. 1,136,295; Apr. 20; Gaz. vol. 213; p. 866.
- Drawing instrument. W. D. Rees. No. 1,148,122; July 27; Gaz. vol. 216; p. 1172.
- Drawing-machine. J. D. Fortune. No. 1,149,120; Aug. 3; Gaz. vol. 217; p. 222.
- Drawing machine, Sheet-metal-. C. L. Terry. No. 1,129,756; Feb. 23; Gaz. vol. 211; p. 1202.
- Drawing on stencils, Apparatus for. A. B. Dick. No. 1,163,647; Dec. 14; Gaz. vol. 221; p. 363.
- Drawing-press. W. Klocke. No. 1,130,176; Mar. 2; Gaz. vol. 212; p. 116.
- Drawing-press. W. Klocke. No. 1,132,018; Mar. 16; Gaz. vol. 212; p. 829.
- Drawing-press. J. Koenig. No. 1,162,374; Nov. 30; Gaz. vol. 220; p. 1571.
- Drawing-ring. R. S. Pease. No. 1,155,507; Oct. 5; Gaz. vol. 219; p. 65.
- Dredge. B. Bernard. No. 1,123,982; Jan. 5; Gaz. vol. 210; p. 266.
- Dredge. J. R. Hart and J. R. Davis. No. 1,159,937; Nov. 9; Gaz. vol. 220; p. 571.
- Dredge or sifter-top can. L. J. Freundt. No. 1,141,535; June 1; Gaz. vol. 215; p. 160.
- Dredges, Floating discharge-pipe for hydraulic. A. W. Robinson. No. 1,143,321; June 15; Gaz. vol. 215; p. 861.
- Dredges, Gathering-head for. E. Bartholomew. No. 1,144,406; June 29; Gaz. vol. 215; p. 1290.
- Dredges, Power-spud for. E. W. Dotten. No. 1,154,492; Sept. 21; Gaz. vol. 218; p. 818.
- Dredger. A. Watkins. No. 1,134,708; Apr. 6; Gaz. vol. 213; p. 229.
- Dredging and ramming device, Combined. K. Borschutzky. No. 1,132,510; Mar. 16; Gaz. vol. 212; p. 1009.
- Dredging apparatus. S. Lake. No. 1,129,351; Feb. 23; Gaz. vol. 211; p. 1064.
- Dredging-machine. G. E. Alleman. No. 1,148,816; Aug. 3; Gaz. vol. 217; p. 120.
- Dress. S. Abrams. No. 1,123,212; Jan. 5; Gaz. vol. 210; p. 3.
- Dress. L. Borgenicht. No. 1,149,619; Aug. 10; Gaz. vol. 217; p. 508.
- Dress-fastening. A. B. Crawford. No. 1,148,444; July 27; Gaz. vol. 216; p. 1283.
- Dress-marker, Self-marking. J. E. Ackerman. No. 1,125,790; Jan. 19; Gaz. vol. 210; p. 994.
- Dress-shield protector. A. E. Bienstock. No. 1,137,452; Apr. 27; Gaz. vol. 213; p. 1318.
- Dress-shield supporter, Adjustable. A. H. Ross and B. B. Gibbs. No. 1,127,093; Feb. 2; Gaz. vol. 211; p. 152.
- Dress-weight. M. Mittendorf. No. 1,147,880; July 27; Gaz. vol. 216; p. 1083.
- Dresses and the like, Means for supporting covers for. R. Widlöf. No. 1,165,051; Dec. 21; Gaz. vol. 221; p. 895.
- Dresser and wardrobe, Baby. C. T. West. No. 1,127,139; Feb. 2; Gaz. vol. 211; p. 168.
- Dresser-chair. A. Truchan. No. 1,165,918; Dec. 28; Gaz. vol. 221; p. 1237.
- Drier. See—
- | | |
|--------------------|---------------------------|
| Air-drier. | Lumber-drier. |
| Brick-drier. | Paper-drier. |
| Centrifugal drier. | Rotary drier. |
| Clothes-drier. | Sand-drier. |
| Corn-drier. | Seed-drier. |
| Curtain-drier. | Sheet-material drier. |
| Fruit-drier. | Tobacco-drier. |
| Grain-drier. | Vacuum-drier. |
| Hat-frame drier. | Vat-drier. |
| Hay-drier. | Yeast and the like drier. |
- Drier. E. B. Ayres. No. 1,147,593; July 20; Gaz. vol. 216; p. 956.

- Drier, H. P. Coe. No. 1,138,086; May 4; Gaz. vol. 214; p. 129.
- Drier, D. M. Cooper. No. 1,137,306; Apr. 27; Gaz. vol. 213; p. 1265.
- Drier, W. R. Fitch. No. 1,144,185; June 22; Gaz. vol. 215; p. 1185.
- Drier, C. E. Geiger. No. 1,139,663; May 18; Gaz. vol. 214; p. 757.
- Drier, A. F. Grambauer. No. 1,165,774; Dec. 28; Gaz. vol. 221; p. 1188.
- Drier, G. Merriman. No. 1,146,894; July 20; Gaz. vol. 216; p. 710.
- Drier, R. Rea. No. 1,126,567; Jan. 26; Gaz. vol. 210; p. 1307.
- Drier, A. Slaysman, Jr. No. 1,139,815; May 18; Gaz. vol. 214; p. 810.
- Drier, tempering-heater, and cooker, C. O. Anderson. No. 1,132,422; Mar. 16; Gaz. vol. 212; p. 976.
- Drier, tempering-heater, and cooker, F. B. Anderson. No. 1,132,421; Mar. 16; Gaz. vol. 212; p. 976.
- Dry battery, I. Koretzky. No. 1,160,907; Nov. 16; Gaz. vol. 220; p. 966.
- Dry battery, L. J. Schatzel. No. 1,147,753; July 27; Gaz. vol. 216; p. 1039.
- Dry-blast system, B. Walter. No. 1,134,568; Apr. 6; Gaz. vol. 213; p. 177.
- Dry cell, M. A. Foos. No. 1,143,181; June 15; Gaz. vol. 215; p. 811.
- Dry cell, E. C. Smith. No. 1,137,030; Apr. 27; Gaz. vol. 213; p. 1164.
- Dry-kiln for lumber, &c. J. M. Leaver. No. 1,135,301; Apr. 13; Gaz. vol. 213; p. 475.
- Dry-kiln for lumber, &c. J. M. Leaver. No. 1,135,302; Apr. 13; Gaz. vol. 213; p. 476.
- Dry-room, L. F. Bowers. No. 1,147,298; July 20; Gaz. vol. 216; p. 851.
- Dry separator and concentrator, F. H. Gordon. No. 1,123,728; Jan. 5; Gaz. vol. 210; p. 181.
- Dry separator, Gravity-trap, D. F. Platner. No. 1,131,081; Mar. 9; Gaz. vol. 212; p. 464.
- Drying and cooling substances, Apparatus for, G. H. Hess. No. 1,151,268; Aug. 24; Gaz. vol. 217; p. 1203.
- Drying and extracting apparatus, A. Seidenberg. No. 1,164,667; Dec. 21; Gaz. vol. 221; p. 762.
- Drying and heating apparatus, T. A. T., Jr., and F. Coleman. No. 1,144,640; June 29; Gaz. vol. 215; p. 1368.
- Drying and superheating system, Steam, G. Restucci. No. 1,157,901; Oct. 26; Gaz. vol. 219; p. 1019.
- Drying apparatus, E. B. Ayres. No. 1,161,587; Nov. 23; Gaz. vol. 220; p. 1252.
- Drying apparatus, J. J. F. Bales. No. 1,166,311; Dec. 28; Gaz. vol. 221; p. 1380.
- Drying apparatus, F. W. Bartlett. No. 1,123,833; Jan. 5; Gaz. vol. 210; p. 216.
- Drying apparatus, G. Binder. No. 1,136,645; Apr. 20; Gaz. vol. 213; p. 990.
- Drying apparatus, J. W. Dale. No. 1,144,817; June 29; Gaz. vol. 215; p. 1431.
- Drying apparatus, G. J. Hagan. No. 1,126,197; Jan. 26; Gaz. vol. 210; p. 1174.
- Drying apparatus, S. J. Rand. No. 1,149,948; Aug. 10; Gaz. vol. 217; p. 627.
- Drying apparatus, J. O. Ross. No. 1,150,540; Aug. 17; Gaz. vol. 217; p. 896.
- Drying apparatus, A. Tegoli. No. 1,135,556; Apr. 13; Gaz. vol. 213; p. 565.
- Drying apparatus, A. Tegoli. No. 1,165,917; Dec. 28; Gaz. vol. 221; p. 1236.
- Drying apparatus, J. K. Toles. No. 1,124,186; Jan. 5; Gaz. vol. 210; p. 336.
- Drying apparatus and process, W. M. Grosvenor. No. 1,138,751; May 11; Gaz. vol. 214; p. 399.
- Drying apparatus, Centrifugal, C. W. Howard. No. 1,123,536; Jan. 5; Gaz. vol. 210; p. 116.
- Drying apparatus, Finely-divided-material, R. S. Kent. No. 1,146,265; July 13; Gaz. vol. 216; p. 472.
- Drying boards and the like, J. Vogt. No. 1,134,247; Apr. 6; Gaz. vol. 213; p. 60.
- Drying copra, Apparatus for, C. Pombo and T. del Casal. No. 1,141,003; May 25; Gaz. vol. 214; p. 1262.
- Drying-cylinder, O. W. Dodge. No. 1,163,224; Dec. 7; Gaz. vol. 221; p. 171.
- Drying granular material, Apparatus for, E. Bornmann. No. 1,155,402; Oct. 5; Gaz. vol. 219; p. 27.
- Drying granular materials, Apparatus for, J. G. Cross. No. 1,157,087; Oct. 19; Gaz. vol. 219; p. 671.
- Drying-machine, A. T. Bryant. No. 1,154,560; Sept. 21; Gaz. vol. 218; p. 842.
- Drying-machine, J. M. Cameron. No. 1,136,933; Apr. 27; Gaz. vol. 213; p. 1128.
- Drying-machine, W. H. Rihl and E. B. Ayres. No. 1,161,732; Nov. 23; Gaz. vol. 220; p. 1300.
- Drying-machine, Automatically-acting horizontal, T. Suzuki. No. 1,126,587; Jan. 26; Gaz. vol. 210; p. 1315.
- Drying machine, Clothes-, C. W. Collins. No. 1,155,468; Oct. 5; Gaz. vol. 219; p. 50.
- Drying-machine feeder, C. E. Geiger. No. 1,139,664; May 18; Gaz. vol. 214; p. 758.
- Drying-machine tray, W. H. Rihl and E. B. Ayres. No. 1,126,280; Jan. 26; Gaz. vol. 210; p. 1202.
- Drying-machines, Suction-hood for, J. O. Woodsome. No. 1,129,155; Feb. 23; Gaz. vol. 211; p. 996.
- Drying objects formed of plastic masses, O. Eberhard. No. 1,131,047; Mar. 9; Gaz. vol. 212; p. 453.
- Drying or roasting apparatus or the like, H. Löfquist. No. 1,151,203; Aug. 24; Gaz. vol. 217; p. 1183.
- Drying-room, E. B. Perkins. No. 1,164,391; Dec. 14; Gaz. vol. 221; p. 625.
- Drying sheet material, O. Minton. No. 1,147,808; July 27; Gaz. vol. 216; p. 1057.
- Drying sheet material, Method and apparatus for, O. Minton. No. 1,147,809; July 27; Gaz. vol. 216; p. 1057.
- Drying sheets of paper, cloth, and the like, Regulating apparatus for, C. Stickie. No. 1,127,540; Feb. 9; Gaz. vol. 211; p. 347.
- Drying system, W. M. Grosvenor. No. 1,141,705; June 1; Gaz. vol. 215; p. 219.
- Drying-tank, J. J. Gage. No. 1,146,618; July 13; Gaz. vol. 216; p. 596.
- Drying washed goods, Device for, H. Löfquist. No. 1,155,668; Oct. 5; Gaz. vol. 219; p. 119.
- Drift, Automatic, D. E. Hennessy. No. 1,161,310; Nov. 23; Gaz. vol. 220; p. 1155.
- Drift-pin puller, M. T. Devine. No. 1,130,071; Mar. 2; Gaz. vol. 212; p. 80.
- Drill: See—
- Anchor-drill. Multiple-spindle drill.
 - Boring-drill. Percussion-drill.
 - Breast-drill. Percussive drill.
 - Chuck-drill. Pneumatic drill.
 - Coal-drill. Post-drill.
 - Coal and rock drill. Power-drill.
 - Core-drill. Rail-drill.
 - Disk drill. Ratchet-drill.
 - Electric drill. Rock-drill.
 - Gang-drill. Rotary drill.
 - Grain-drill. Seed-drill.
 - Hammer-drill. Speed-drill.
 - Hand-drill. Variable-speed drill.
 - Miner's drill. Well-casing drill.
 - Multiple drill.
- Drill, W. H. Bloss. No. 1,162,441; Nov. 30; Gaz. vol. 220; p. 1594.
- Drill, J. M. Bowman. No. 1,147,674; July 20; Gaz. vol. 216; p. 986.
- Drill, H. R. Decker. No. 1,152,151; Aug. 31; Gaz. vol. 217; p. 1554.
- Drill, W. R. Hockabout. No. 1,154,636; Sept. 28; Gaz. vol. 218; p. 898.
- Drill, G. A. Humason. No. 1,151,104; Aug. 24; Gaz. vol. 217; p. 1147.
- Drill, B. Kunitz. No. 1,140,988; May 25; Gaz. vol. 214; p. 1257.
- Drill, I. Lapidus. No. 1,138,490; May 4; Gaz. vol. 214; p. 270.
- Drill, A. Scott and J. G. Grattan. No. 1,124,337; Jan. 12; Gaz. vol. 210; p. 438.
- Drill, F. R. Weathersby. No. 1,131,448; Mar. 9; Gaz. vol. 212; p. 591.
- Drill and tool holder, Safety, P. E. Edelman. No. 1,158,190; Oct. 26; Gaz. vol. 219; p. 1120.
- Drill attachment, C. Swanberg. No. 1,138,423; May 4; Gaz. vol. 214; p. 248.
- Drill-bit, J. Blass. No. 1,162,211; Nov. 30; Gaz. vol. 220; p. 1515.
- Drill-bit, G. W. McAllister. No. 1,133,161; Mar. 23; Gaz. vol. 212; p. 1295.
- Drill-bit, G. W. McAllister. No. 1,133,162; Mar. 23; Gaz. vol. 212; p. 1295.
- Drill-bit making and sharpening machine, S. V. Rawlings. No. 1,140,396; May 25; Gaz. vol. 214; p. 1049.
- Drill-bit-retaining device, G. H. Gilman. No. 1,126,628; Jan. 26; Gaz. vol. 210; p. 1330.
- Drill-bit-retaining device, R. S. Weiner. No. 1,164,560; Dec. 14; Gaz. vol. 221; p. 683.
- Drill-brace, H. Sawyer. No. 1,124,663; Jan. 12; Gaz. vol. 210; p. 558.
- Drill-chuck, J. A. Domplier. No. 1,157,513; Oct. 19; Gaz. vol. 219; p. 821.
- Drill-collar, G. S. Myers. No. 1,132,375; Mar. 16; Gaz. vol. 212; p. 959.
- Drill-driving mechanism, H. B. Keiper. No. 1,137,330; Apr. 27; Gaz. vol. 213; p. 1274.
- Drill-extractor, M. Conley. No. 1,133,709; Mar. 30; Gaz. vol. 212; p. 1528.
- Drill hanger, Air-, L. Stas. No. 1,150,312; Aug. 17; Gaz. vol. 217; p. 818.
- Drill-head, Multiple-spindle, E. W. Cleveland. No. 1,146,768; July 13; Gaz. vol. 216; p. 647.
- Drill-head, Multiple-spindle, F. W. and C. A. Hoefer. No. 1,164,818; Dec. 21; Gaz. vol. 221; p. 812.
- Drill-heads, Rock-reamer for, J. P. Karns. No. 1,156,147; Oct. 12; Gaz. vol. 219; p. 312.
- Drill-holder, H. C. Lawson. No. 1,156,088; Oct. 12; Gaz. vol. 219; p. 292.
- Drill holes, Device for ascertaining the vertical angle and direction of diamond, H. A. Borresen. No. 1,152,701; Sept. 7; Gaz. vol. 218; p. 118.
- Drill-jar, A. S. Calhoun. No. 1,154,483; Sept. 21; Gaz. vol. 218; p. 816.

Alphabetical list of inventions—Continued.

- Drill-jar. E. L. Cleveland. No. 1,144,814; June 29; Gaz. vol. 215; p. 1430.
- Drill-jars, Making well. W. A. Sparks. No. 1,134,926; Apr. 6; Gaz. vol. 213; p. 300.
- Drill-lubricating device, Rotary. H. R. Hughes. No. 1,136,134; Apr. 20; Gaz. vol. 213; p. 807.
- Drill-operating tool. R. Gabrielsky. No. 1,140,811; May 25; Gaz. vol. 214; p. 1192.
- Drill-press. F. E. Connor. No. 1,155,891; Oct. 5; Gaz. vol. 219; p. 197.
- Drill-press. H. G. Kaiser. No. 1,144,602; June 29; Gaz. vol. 215; p. 1355.
- Drill-press. M. Merliss. No. 1,125,147; Jan. 19; Gaz. vol. 210; p. 763.
- Drill-presses and the like, Belt-gearing for. J. G. Hey. No. 1,148,677; Aug. 3; Gaz. vol. 217; p. 70.
- Drill reaming-bit, Prospecting. W. T. Underwood. No. 1,138,332; May 4; Gaz. vol. 214; p. 215.
- Drill-rod couplings. E. J. Lowe. No. 1,148,977; Aug. 3; Gaz. vol. 217; p. 174.
- Drill-rod extractor. W. Schildwachter. No. 1,163,560; Dec. 7; Gaz. vol. 221; p. 288.
- Drill-rod tap. W. Schildwachter. No. 1,163,561; Dec. 7; Gaz. vol. 221; p. 288.
- Drill-spindles, Feed mechanism for. G. O. Leopold. No. 1,124,149; Jan. 5; Gaz. vol. 210; p. 322.
- Drill-support. B. F. Williams and J. W. Mayfield. No. 1,161,097; Nov. 23; Gaz. vol. 220; p. 1077.
- Drill support, Breast. T. Bergman. No. 1,164,327; Dec. 14; Gaz. vol. 221; p. 602.
- Drills, Auxiliary operating attachment for. A. G. McCormack. No. 1,138,767; May 11; Gaz. vol. 214; p. 405.
- Drills, Boxing for. J. A. Hallander. No. 1,148,313; July 27; Gaz. vol. 216; p. 1238.
- Drills, Cutter for rotary boring. H. R. Hughes. No. 1,143,271; June 15; Gaz. vol. 215; p. 843.
- Drills, Device for rotating pneumatic. H. J. Cook and H. E. Marsden. No. 1,152,882; Sept. 7; Gaz. vol. 218; p. 185.
- Drills, Drill-steel-turning device for percussive fluid-operated. C. H. Peck. No. 1,160,648; Nov. 16; Gaz. vol. 220; p. 874.
- Drills, Front-head construction for self-rotating hammer. L. C. Bayles. No. 1,130,957; Mar. 9; Gaz. vol. 212; p. 421.
- Drills, Roller-cutter attachment for. T. Barnes. No. 1,148,428; July 27; Gaz. vol. 216; p. 1278.
- Drills, Rolls for simultaneously reducing and relief-ribbing twist. S. Denk. No. 1,151,247; Aug. 24; Gaz. vol. 217; p. 1198.
- Drills, Rotation mechanism for percussive. L. C. Bayles. No. 1,148,649; Aug. 3; Gaz. vol. 217; p. 60.
- Drilling and blasting gage. A. Harrigan. No. 1,155,355; Oct. 5; Gaz. vol. 219; p. 11.
- Drilling and boring machine. J. L. Didier. No. 1,142,802; June 15; Gaz. vol. 215; p. 677.
- Drilling and like machines, Tool-holder for rotary. B. O. Gage. No. 1,131,777; Mar. 16; Gaz. vol. 212; p. 741.
- Drilling and tapping machines, Gaging and reversing means for. R. W. Egan. No. 1,154,296; Sept. 21; Gaz. vol. 218; p. 751.
- Drilling apparatus. J. Kammerdiner. No. 1,128,326; Feb. 16; Gaz. vol. 211; p. 672.
- Drilling apparatus, Rotary. L. J. Black. No. 1,144,098; June 22; Gaz. vol. 215; p. 1154.
- Drilling equipment. L. E. Shoup. No. 1,165,723; Dec. 28; Gaz. vol. 221; p. 1171.
- Drilling-machine. J. M. Dellinger. No. 1,136,319; Apr. 20; Gaz. vol. 213; p. 874.
- Drilling-machine. J. A. Eden, Jr. No. 1,159,196; Nov. 2; Gaz. vol. 220; p. 274.
- Drilling-machine. J. E. Evans. No. 1,143,178; June 15; Gaz. vol. 215; p. 810.
- Drilling-machine. L. Garrison. No. 1,146,243; July 13; Gaz. vol. 216; p. 465.
- Drilling-machine. C. H. Haeseler. No. 1,146,870; July 20; Gaz. vol. 216; p. 702.
- Drilling-machine. A. Hossfeld. No. 1,127,003; Feb. 2; Gaz. vol. 211; p. 119.
- Drilling-machine. H. B. Kelper. No. 1,165,357; Dec. 21; Gaz. vol. 221; p. 1001.
- Drilling-machine. C. H. A. F. L. Ross. No. 1,125,181; Jan. 19; Gaz. vol. 210; p. 776.
- Drilling-machine. M. W. Sherwood. No. 1,161,259; Nov. 23; Gaz. vol. 220; p. 1137.
- Drilling-machine. H. Wanamaker and J. McAllister. No. 1,135,475; Apr. 13; Gaz. vol. 213; p. 536.
- Drilling-machine. B. Wehner. No. 1,148,640; Aug. 3; Gaz. vol. 217; p. 56.
- Drilling machine, Ceiling. H. G. Carlson. No. 1,137,837; May 4; Gaz. vol. 214; p. 40.
- Drilling-machine, Fluid-operated. L. W. Greve. No. 1,129,347; Feb. 23; Gaz. vol. 211; p. 1063.
- Drilling-machine, Multiple-spindle. C. J. Wetsel. No. 1,135,974; Apr. 13; Gaz. vol. 213; p. 712.
- Drilling-machine, Rotary. C. S. Wright. No. 1,131,100; Mar. 9; Gaz. vol. 212; p. 471.
- Drilling-machines, Direction-indicating attachment for. R. A. Bowen. No. 1,131,596; Mar. 9; Gaz. vol. 212; p. 641.
- Drilling-rig. W. A. Huelsdonk. No. 1,145,418; July 6; Gaz. vol. 216; p. 155.
- Drilling-rig feed device. L. E. Shoup. No. 1,165,722; Dec. 28; Gaz. vol. 221; p. 1170.
- Drilling-rig, Portable. C. D. Randall. No. 1,138,506; May 4; Gaz. vol. 214; p. 274.
- Drilling-rigs, Walking-beam for. T. J. Griffin. No. 1,129,348; Feb. 23; Gaz. vol. 211; p. 1063.
- Drilling, Set-protector for. J. W. Reason. No. 1,148,537; Aug. 3; Gaz. vol. 217; p. 19.
- Drilling, tapping, &c., Driving mechanism for machines for. J. M. Housel. No. 1,160,607; Nov. 16; Gaz. vol. 220; p. 858.
- Drilling-tools, Demountable cutting edge for. H. R. Hughes. No. 1,143,275; June 15; Gaz. vol. 215; p. 844.
- Drink-mixing machine. R. W. Portmann. No. 1,141,358; June 1; Gaz. vol. 215; p. 96.
- Drinks, Dispenser for mixed. N. Jacovatos. No. 1,151,270; Aug. 24; Gaz. vol. 217; p. 1204.
- Drinks or other liquids, Apparatus for delivering and mixing. A. J. L. Eckersley. No. 1,140,888; May 25; Gaz. vol. 214; p. 1221.
- Drinking-cup. J. K. Champ. No. 1,142,304; June 8; Gaz. vol. 215; p. 464.
- Drinking-cup. H. B. Cooley. No. 1,148,149; July 27; Gaz. vol. 216; p. 1181.
- Drinking-cup. H. B. Cooley. No. 1,163,615; Dec. 7; Gaz. vol. 221; p. 308.
- Drinking-cup. E. J. Covert. No. 1,127,739; Feb. 9; Gaz. vol. 211; p. 417.
- Drinking-cup. J. P. Doran. No. 1,124,308; Jan. 12; Gaz. vol. 210; p. 428.
- Drinking-cup. C. H. Freeburg. No. 1,151,869; Aug. 31; Gaz. vol. 217; p. 1457.
- Drinking-cup. C. Mettler. No. 1,127,793; Feb. 9; Gaz. vol. 211; p. 437.
- Drinking-cup. J. G. Sharon. No. 1,134,916; Apr. 6; Gaz. vol. 213; p. 297.
- Drinking-cup. J. K. Shaw. No. 1,129,130; Feb. 23; Gaz. vol. 211; p. 989.
- Drinking-cup. W. E. Swift. No. 1,145,093; July 6; Gaz. vol. 216; p. 44.
- Drinking-cup. W. R. Watkins. No. 1,155,178; Sept. 28; Gaz. vol. 218; p. 1034.
- Drinking-cup attachment, Sanitary. W. W. Mace. No. 1,133,871; Mar. 30; Gaz. vol. 212; p. 1585.
- Drinking-cup, Collapsible. O. A. Hollis. No. 1,154,185; Sept. 21; Gaz. vol. 218; p. 713.
- Drinking-cup, Collapsible. L. K. Mearkle. No. 1,133,050; Mar. 23; Gaz. vol. 212; p. 1256.
- Drinking-cup dispenser. F. Yearicks. No. 1,128,566; Feb. 16; Gaz. vol. 211; p. 755.
- Drinking-cup, Folding. E. C. Baldwin. No. 1,129,778; Feb. 23; Gaz. vol. 211; p. 1210.
- Drinking-cup fountain. F. G. Partington. (Reissue.) No. 13,902; Apr. 13; Gaz. vol. 213; p. 717.
- Drinking-cup holder. G. J. Bohlman. No. 1,130,882; Mar. 9; Gaz. vol. 212; p. 397.
- Drinking-cup, Individual. G. W. Weber. No. 1,137,039; Apr. 27; Gaz. vol. 213; p. 1167.
- Drinking-cup receptacle, Collapsible. W. E. Swift. No. 1,142,284; June 8; Gaz. vol. 215; p. 458.
- Drinking-cup, Sanitary. W. J. Paul. No. 1,137,018; Apr. 27; Gaz. vol. 213; p. 1160.
- Drinking-cup, Sanitary. A. P. Willoughby. No. 1,133,831; Mar. 30; Gaz. vol. 212; p. 1571.
- Drinking device. L. A. Asquith and J. Greene. No. 1,146,383; July 13; Gaz. vol. 216; p. 512.
- Drinking device, Sanitary. E. M. Parlett. No. 1,162,644; Nov. 30; Gaz. vol. 220; p. 1659.
- Drinking-fount. A. C. Brown. No. 1,124,693; Jan. 12; Gaz. vol. 210; p. 568.
- Drinking-fount. A. Corthaus. No. 1,133,105; Mar. 23; Gaz. vol. 212; p. 1275.
- Drinking-fountain. A. A. Bailey, Jr. No. 1,146,766; July 13; Gaz. vol. 216; p. 646.
- Drinking-fountain. R. S. Brooks. No. 1,125,806; Jan. 19; Gaz. vol. 210; p. 1000.
- Drinking-fountain. G. E. Cripps and N. Price. No. 1,161,622; Nov. 23; Gaz. vol. 220; p. 1264.
- Drinking-fountain. R. W. E. Hayes. No. 1,135,690; Apr. 13; Gaz. vol. 213; p. 613.
- Drinking-fountain. J. Imschweller. No. 1,160,511; Nov. 16; Gaz. vol. 220; p. 823.
- Drinking-fountain. A. E. Kenney. No. 1,127,633; Feb. 9; Gaz. vol. 211; p. 377.
- Drinking-fountain. T. H. Kenney. No. 1,156,011; Oct. 5; Gaz. vol. 219; p. 237.
- Drinking-fountain. D. W. McNeil. No. 1,165,428; Dec. 28; Gaz. vol. 221; p. 1066.
- Drinking-fountain. K. Murdock. No. 1,146,946; July 20; Gaz. vol. 216; p. 730.
- Drinking-fountain. W. H. Schulte. No. 1,155,621; Oct. 5; Gaz. vol. 219; p. 102.
- Drinking-fountain and faucet. G. E. Sweet. No. 1,156,190; Oct. 12; Gaz. vol. 219; p. 325.
- Drinking-fountain and faucet, Sanitary. O. F. Kritzner. No. 1,161,054; Nov. 23; Gaz. vol. 220; p. 1062.
- Drinking-fountain and waste-receptacle. D. L. Harris. No. 1,141,794; June 1; Gaz. vol. 215; p. 248.
- Drinking-fountain attachment. J. L. Cunningham. No. 1,142,675; June 8; Gaz. vol. 215; p. 693.

Alphabetical list of inventions—Continued.

- Drinking-fountain, Automatic. S. Dyer. No. 1,131,046; Mar. 9; Gaz. vol. 212; p. 453.
- Drinking-fountain for poultry. F. Enos, Jr. No. 1,158,035; Oct. 26; Gaz. vol. 219; p. 1065.
- Drinking-fountain for poultry, Antifreezing. F. Enos, Jr. No. 1,148,802; July 27; Gaz. vol. 216; p. 1233.
- Drinking fountain or faucet. A. I. Fischer. No. 1,140,507; May 25; Gaz. vol. 214; p. 1090.
- Drinking-fountain or waterer for fowls. E. Blumer. No. 1,136,092; Apr. 20; Gaz. vol. 213; p. 793.
- Drinking-fountain, Poultry. F. B. Wilde and M. W. Lawlor. No. 1,150,159; Aug. 17; Gaz. vol. 217; p. 764.
- Drinking-fountain, Sanitary. E. Graham. No. 1,124,889; Jan. 12; Gaz. vol. 210; p. 638.
- Drinking-fountain, Sanitary. P. Mueller. No. 1,157,173; Oct. 19; Gaz. vol. 219; p. 701.
- Drinking-fountain, Sanitary. P. Mueller and A. C. Schuermann. (Reissue.) No. 1,390,600; Aug. 10; Gaz. vol. 217; p. 649.
- Drinking-fountain, Sanitary. F. G. Partington. No. 1,135,917; Apr. 13; Gaz. vol. 213; p. 691.
- Drinking-glass. F. E. Anderson. No. 1,128,216; Feb. 9; Gaz. vol. 211; p. 584.
- Drinking-glasses, Sanitary cap for. J. A. Conard. No. 1,156,391; Oct. 12; Gaz. vol. 219; p. 396.
- Drinking-trough, &c. A. Hopkins. No. 1,144,129; June 22; Gaz. vol. 215; p. 1165.
- Drinking-trough, Metallic. H. A. Eilers. No. 1,160,498; Nov. 16; Gaz. vol. 220; p. 819.
- Drinking vessel made of ice, Apparatus for the manufacture of a. H. D. P. Huizer. No. 1,123,537; Jan. 5; Gaz. vol. 210; p. 117.
- Drip-pan alarm. M. Jacobson. No. 1,142,577; June 8; Gaz. vol. 215; p. 561.
- Drip-pan alarm. G. R. Wald. No. 1,123,629; Jan. 5; Gaz. vol. 210; p. 148.
- Drip-pan and wiper, Combination. C. L. Hicks. No. 1,129,390; Feb. 23; Gaz. vol. 211; p. 1079.
- Drip-pan signal. H. C. Twibell. No. 1,123,819; Jan. 5; Gaz. vol. 210; p. 212.
- Drip-pan signal. B. Weiss. No. 1,163,491; Dec. 7; Gaz. vol. 221; p. 264.
- Drive-chains, Correcting the pitch of. S. D. Locke. No. 1,139,044; May 11; Gaz. vol. 214; p. 505.
- Drive for concentric cylinders or mills, Compensating. A. L. West. No. 1,144,272; June 22; Gaz. vol. 215; p. 1216.
- Drive, Four-wheel. E. C. Hodges. No. 1,137,140; Apr. 27; Gaz. vol. 213; p. 1204.
- Drive, Four-wheel. J. L. Ware. No. 1,135,085; Apr. 13; Gaz. vol. 213; p. 402.
- Drive, Friction-. C. R. Day. No. 1,128,111; Feb. 9; Gaz. vol. 211; p. 548.
- Drive machine, Central-control cone-. R. T. Hazelton and S. Einstein. No. 1,126,634; Jan. 26; Gaz. vol. 210; p. 1331.
- Drive mechanism. H. H. Buffum. No. 1,158,027; Oct. 26; Gaz. vol. 219; p. 1063.
- Drive mechanism. H. G. Coykendall. No. 1,141,319; June 1; Gaz. vol. 215; p. 83.
- Drive mechanism, Differential. M. J. Kelly. No. 1,134,138; Apr. 6; Gaz. vol. 213; p. 20.
- Drive mechanism, Steerable traction. F. I. and B. P. Remy and A. Berger. No. 1,124,951; Jan. 12; Gaz. vol. 210; p. 659.
- Drive, Reversible variable-speed. R. B. Oman. No. 1,155,368; Oct. 5; Gaz. vol. 219; p. 15.
- Drive-shoe. G. A. Montgomery. No. 1,153,811; Sept. 14; Gaz. vol. 218; p. 550.
- Driver's helmet. H. Stelzner. No. 1,159,125; Nov. 2; Gaz. vol. 220; p. 247.
- Driving and steering mechanism, Friction. W. O. Stark. No. 1,135,218; Apr. 13; Gaz. vol. 213; p. 447.
- Driving-box cellars, Tool for removing. W. Queitsch. No. 1,155,274; Sept. 28; Gaz. vol. 218; p. 1113.
- Driving connection, Mechanical. W. H. Herdman. No. 1,163,920; Dec. 14; Gaz. vol. 221; p. 460.
- Driving connection, Resilient. G. M. Eaton. No. 1,130,264; Mar. 2; Gaz. vol. 212; p. 146.
- Driving connection, Resilient. J. E. Webster. No. 1,126,143; Jan. 26; Gaz. vol. 210; p. 1153.
- Driving-coupling, Ignition-magneto. J. W. Montague. No. 1,150,694; Aug. 17; Gaz. vol. 217; p. 950.
- Driving-coupling, Resilient. E. Schneider. No. 1,125,739; Jan. 19; Gaz. vol. 210; p. 976.
- Driving device, Friction. P. E. Gilling. No. 1,126,443; Jan. 26; Gaz. vol. 210; p. 1260.
- Driving device, Reversible rotary. H. J. Perkins. No. 1,131,861; Mar. 16; Gaz. vol. 212; p. 773.
- Driving-gear. M. E. Blood. No. 1,155,467; Oct. 5; Gaz. vol. 219; p. 49.
- Driving-gear, Reversible. M. J. Mulhall. No. 1,134,480; Apr. 6; Gaz. vol. 213; p. 145.
- Driving-gear, Variable-speed. B. W. Bronander. No. 1,135,990; Apr. 20; Gaz. vol. 213; p. 759.
- Driving mechanism. A. W. Altorfer. No. 1,152,377; Aug. 31; Gaz. vol. 217; p. 1633.
- Driving mechanism. A. W. Altorfer. No. 1,158,098; Oct. 26; Gaz. vol. 219; p. 1088.
- Driving mechanism. F. C. Barton. No. 1,155,123; Sept. 28; Gaz. vol. 218; p. 1065.
- Driving mechanism. A. Bozym. No. 1,161,601; Nov. 23; Gaz. vol. 220; p. 1256.
- Driving mechanism. J. T. Brisson. No. 1,139,634; May 18; Gaz. vol. 214; p. 746.
- Driving mechanism. L. Brown. No. 1,135,496; Apr. 13; Gaz. vol. 213; p. 543.
- Driving mechanism. P. T. Coffield and J. Bremer. No. 1,131,466; Mar. 9; Gaz. vol. 212; p. 598.
- Driving mechanism. J. P. Doran. No. 1,156,135; Oct. 12; Gaz. vol. 219; p. 308.
- Driving mechanism. J. Feyer. No. 1,132,174; Mar. 16; Gaz. vol. 212; p. 885.
- Driving mechanism. W. H. George. No. 1,153,157; Sept. 7; Gaz. vol. 218; p. 279.
- Driving mechanism. C. T. Henderson. No. 1,157,307; Oct. 19; Gaz. vol. 219; p. 749.
- Driving mechanism. J. J. Hesse and L. Stanek. No. 1,162,922; Dec. 7; Gaz. vol. 221; p. 65.
- Driving mechanism. J. W. McQueen. No. 1,126,812; Feb. 2; Gaz. vol. 211; p. 52.
- Driving mechanism. F. H. Van Houten. No. 1,140,319; May 18; Gaz. vol. 214; p. 986.
- Driving mechanism. G. R. Walker. No. 1,127,123; Feb. 2; Gaz. vol. 211; p. 163.
- Driving mechanism. E. R. Whitney. No. 1,149,106; Aug. 3; Gaz. vol. 217; p. 217.
- Driving mechanism. H. Williams. No. 1,162,119; Nov. 30; Gaz. vol. 220; p. 1484.
- Driving mechanism, Change-speed. F. E. Miller. No. 1,156,848; Oct. 12; Gaz. vol. 219; p. 556.
- Driving mechanism, Compensating. B. B. Farnham. No. 1,134,187; Apr. 6; Gaz. vol. 213; p. 38.
- Driving mechanism, Differential. H. V. Green. No. 1,143,537; June 15; Gaz. vol. 215; p. 934.
- Driving mechanism, Differential. B. M. Lindsley. No. 1,145,378; July 6; Gaz. vol. 216; p. 140.
- Driving mechanism for reversely-rotatable elements. A. J. Hoffman. No. 1,159,767; Nov. 9; Gaz. vol. 220; p. 509.
- Driving mechanism for turrets and the like. T. E. Barnum. No. 1,130,053; Mar. 2; Gaz. vol. 212; p. 74.
- Driving mechanism for turrets and the like. T. E. Barnum. No. 1,130,054; Mar. 2; Gaz. vol. 212; p. 74.
- Driving mechanism for variable-speed machines. E. M. Woodward. No. 1,143,679; June 22; Gaz. vol. 215; p. 1009.
- Driving mechanism, Four-wheel. F. L. Freeman. No. 1,145,762; July 6; Gaz. vol. 216; p. 275.
- Driving mechanism, Friction. M. L. Severy. No. 1,135,628; Apr. 13; Gaz. vol. 213; p. 591.
- Driving mechanism, Treadle-operated. G. G. White. No. 1,141,026; May 25; Gaz. vol. 214; p. 1268.
- Driving mechanism, Variable-speed-gear. M. E. Dewstoe. No. 1,158,990; Nov. 2; Gaz. vol. 220; p. 202.
- Drop and jack, Combined. W. Leaver. No. 1,131,389; Mar. 9; Gaz. vol. 212; p. 570.
- Drop-ball. E. E. Slick. No. 1,154,734; Sept. 28; Gaz. vol. 218; p. 930.
- Drop-feed lubricator. F. Lowry. No. 1,131,396; Mar. 9; Gaz. vol. 212; p. 573.
- Drop-feed lubricator. F. Lowry. No. 1,156,488; Oct. 12; Gaz. vol. 219; p. 430.
- Drop-light. J. I. Steen. No. 1,159,124; Nov. 2; Gaz. vol. 220; p. 246.
- Drop-light winding device. C. V. Johnson. No. 1,136,533; Apr. 20; Gaz. vol. 213; p. 950.
- Dropper. See—
 Batter-dropper. Cap-dropper.
 Can-cap dropper. Medicine-dropper.
- Dropper device. J. Neger. No. 1,147,882; July 27; Gaz. vol. 216; p. 1084.
- Drum. G. M. Carnes. No. 1,127,589; Feb. 9; Gaz. vol. 211; p. 363.
- Drum and cymbal beater. G. W. Bowman. No. 1,138,839; May 11; Gaz. vol. 214; p. 432.
- Drum and cymbal beater, Combination. J. Hubmann. No. 1,128,142; Feb. 9; Gaz. vol. 211; p. 559.
- Drum-beater. F. F. Hendrickson. No. 1,142,095; June 8; Gaz. vol. 215; p. 392.
- Drum-brake. W. S. Hutchinson. No. 1,152,511; Sept. 7; Gaz. vol. 218; p. 47.
- Drum for machines for stretching hides and skins. D. Mercler. No. 1,126,057; Jan. 26; Gaz. vol. 210; p. 1121.
- Drum for the working of any kind of grain. L. Topf. No. 1,138,331; May 4; Gaz. vol. 214; p. 215.
- Drum, Germinating. L. Topf. No. 1,127,547; Feb. 9; Gaz. vol. 211; p. 349.
- Drum, Heating-. L. L. Moore. No. 1,141,200; June 1; Gaz. vol. 215; p. 39.
- Drum-pedal. G. Kendrick. No. 1,154,120; Sept. 21; Gaz. vol. 218; p. 692.
- Drum-pedal. G. Kendrick. No. 1,154,121; Sept. 21; Gaz. vol. 218; p. 692.
- Drum, Snare-. A. A. Rose. No. 1,142,843; June 15; Gaz. vol. 215; p. 690.
- Drum, Snare-. C. B. Wanamaker. No. 1,144,452; June 29; Gaz. vol. 215; p. 1306.
- Drum-switch with maximum cut-out. M. Vogelsang. No. 1,155,978; Oct. 5; Gaz. vol. 219; p. 226.
- Drums. Means for tightening the cords upon. C. S. Gurney. No. 1,165,666; Dec. 28; Gaz. vol. 221; p. 1150.

Alphabetical list of inventions—Continued.

- Dulcimer-action. N. J. Winlund. No. 1,137,562; Apr. 27; Gaz. vol. 213; p. 1354.
- Dumb-bell. C. T. Day. No. 1,138,459; May 4; Gaz. vol. 214; p. 260.
- Dumb-bell and exerciser, Spring-grip. Y. Malvisi. No. 1,130,620; Mar. 2; Gaz. vol. 212; p. 272.
- Dumb-waiter. W. A. Lighthouse. No. 1,127,462; Feb. 9; Gaz. vol. 211; p. 321.
- Dumb-waiter, elevator, or the like, Door for a chute of a. E. W. Dugdale. No. 1,133,794; Mar. 30; Gaz. vol. 212; p. 1557.
- Dumb-waiter machine. R. M. Sypher. No. 1,129,434; Feb. 23; Gaz. vol. 211; p. 1094.
- Dumb-waiter ropes, Rope-guide for. L. Wiebke. No. 1,152,775; Sept. 7; Gaz. vol. 218; p. 144.
- Dumb-waiter-shaft attachment. L. Wiebke and A. W. Bull. No. 1,144,516; June 29; Gaz. vol. 215; p. 1327.
- Dummy container. P. Compton. No. 1,127,734; Feb. 9; Gaz. vol. 211; p. 415.
- Dump and elevator, Combined. A. Meyer. No. 1,165,109; Dec. 21; Gaz. vol. 221; p. 917.
- Dump-box. R. Matthies and J. A. Shepherd. No. 1,127,479; Feb. 9; Gaz. vol. 211; p. 327.
- Dump, Hydraulic. G. A. Wood. No. 1,165,825; Dec. 28; Gaz. vol. 221; p. 1204.
- Dump-rack. T. N. Bjørndahl. No. 1,123,666; Jan. 5; Gaz. vol. 210; p. 160.
- Dump, Skip-. C. L. Lawton. No. 1,151,955; Aug. 31; Gaz. vol. 217; p. 1484.
- Dumping-cage safety dog or catch. S. Galli. No. 1,150,818; Aug. 17; Gaz. vol. 217; p. 992.
- Dumping device. L. Merrow. No. 1,129,886; Mar. 2; Gaz. vol. 212; p. 19.
- Dumping-machine. W. Macnaughtan. No. 1,148,244; July 27; Gaz. vol. 216; p. 1213.
- Dumping-trap. A. C. Dunlap. No. 1,126,962; Feb. 2; Gaz. vol. 211; p. 104.
- Duplicating device. L. O. Packard. No. 1,146,731; July 13; Gaz. vol. 216; p. 634.
- Duplicating-machine. C. F. Green. No. 1,139,117; May 11; Gaz. vol. 214; p. 530.
- Duplicating-machine. G. A. W. Rushworth. No. 1,149,953; Aug. 10; Gaz. vol. 217; p. 629.
- Duplicating-machine. J. B. West. No. 1,149,607; Aug. 10; Gaz. vol. 217; p. 501.
- Duplicating-machine, Rotary. A. B. Dick. No. 1,159,907; Nov. 9; Gaz. vol. 220; p. 559.
- Duplicating machine, Stencil-. A. B. Dick. No. 1,140,883; May 25; Gaz. vol. 214; p. 1220.
- Duplicating or printing machine. C. E. Adamson. No. 1,155,696; Oct. 5; Gaz. vol. 219; p. 129.
- Duplicating roll or sheet and making same. A. Isaacs. No. 1,151,951; Aug. 31; Gaz. vol. 217; p. 1483.
- Duplicator. C. A. Kenworthy. No. 1,159,834; Nov. 2; Gaz. vol. 220; p. 321.
- Duplicator-machine and the like. G. A. W. Rushworth. No. 1,149,952; Aug. 10; Gaz. vol. 217; p. 628.
- Dust and the like, Apparatus employed in the removal of. W. G. Hay. No. 1,127,242; Feb. 2; Gaz. vol. 211; p. 204.
- Dust and weather proofing construction. J. B. Glowacki. No. 1,131,693; Mar. 16; Gaz. vol. 212; p. 711.
- Dust-cap and waterproof hat-shield, Combined. J. T. Craw and F. L. Schley. No. 1,160,049; Nov. 9; Gaz. vol. 220; p. 608.
- Dust-catcher. J. M. Goodell. No. 1,125,032; Jan. 12; Gaz. vol. 210; p. 686.
- Dust-cloth holder. W. T. Moss. No. 1,139,561; May 18; Gaz. vol. 214; p. 720.
- Dust-collecting machine. J. C. Luden. No. 1,160,628; Nov. 16; Gaz. vol. 220; p. 867.
- Dust-collecting mechanism, Window-ventilator. N. M. Rosendahl. No. 1,154,060; Sept. 21; Gaz. vol. 218; p. 671.
- Dust-collector. W. J. Fender. No. 1,165,401; Dec. 28; Gaz. vol. 221; p. 1057.
- Dust-collector. F. W. Lehrack and E. P. Koehn. No. 1,145,903; July 13; Gaz. vol. 216; p. 344.
- Dust-collector. F. Marx. No. 1,123,564; Jan. 5; Gaz. vol. 210; p. 125.
- Dust-collector. F. J. Matchette. No. 1,157,242; Oct. 19; Gaz. vol. 219; p. 727.
- Dust-collector. J. E. Mitchell. (Reissue.) No. 13,963; Aug. 17; Gaz. vol. 217; p. 1004.
- Dust-collector. A. C. Posner. No. 1,159,267; Nov. 2; Gaz. vol. 220; p. 298.
- Dust-collector. F. J. Quist. No. 1,128,510; Feb. 16; Gaz. vol. 211; p. 735.
- Dust-collector. R. H. Recents. No. 1,145,704; July 6; Gaz. vol. 216; p. 255.
- Dust-collector. G. F. Sherwood. No. 1,152,125; Aug. 31; Gaz. vol. 217; p. 1545.
- Dust-collector, Wet. G. A. Helson. No. 1,152,414; Sept. 7; Gaz. vol. 218; p. 11.
- Dust-collectors, Jarring device for. H. Lechtenberg. No. 1,135,905; Apr. 13; Gaz. vol. 213; p. 687.
- Dust during the working up of Panama bark, Suppression of. R. Mandelbaum. No. 1,128,472; Feb. 16; Gaz. vol. 211; p. 723.
- Dust from air or vapor, Apparatus for extracting. J. Herbing. No. 1,130,596; Mar. 2; Gaz. vol. 212; p. 264.
- Dust from carpets and other articles, Apparatus for the extraction of. F. V. Schödt. (Reissue.) No. 14,020; Dec. 7; Gaz. vol. 221; p. 816.
- Dust-guard. F. W. Caughling. No. 1,137,120; Apr. 27; Gaz. vol. 213; p. 1197.
- Dust-guard. J. Schmid-Roost. No. 1,145,516; July 6; Gaz. vol. 216; p. 189.
- Dust-guard. L. Y. Williams. No. 1,156,959; Oct. 19; Gaz. vol. 219; p. 625.
- Dust, &c., Means for preventing the escape of. A. W. Warner. No. 1,137,558; Apr. 27; Gaz. vol. 213; p. 1353.
- Dust-pan. R. Haldenwang, Jr. No. 1,135,519; Apr. 13; Gaz. vol. 213; p. 551.
- Dust-pan. W. E. A. Pipher. No. 1,138,504; May 4; Gaz. vol. 214; p. 274.
- Dust-pan. L. S. Tyler. No. 1,161,087; Nov. 23; Gaz. vol. 220; p. 1073.
- Dust-pan. H. Zuber. No. 1,141,031; May 25; Gaz. vol. 214; p. 1270.
- Dust-removers, Driving device for pneumatic. N. Clouette. No. 1,154,379; Sept. 21; Gaz. vol. 218; p. 782.
- Dust-separator. H. F. Bickel. No. 1,124,199; Jan. 5; Gaz. vol. 210; p. 342.
- Dust-separator. J. Robertson. No. 1,136,836; Apr. 20; Gaz. vol. 213; p. 1058.
- Dust-separator, Self-cleaning. F. Graffenberger. No. 1,136,953; Apr. 27; Gaz. vol. 213; p. 1136.
- Duster. M. P. Allen. No. 1,138,922; May 11; Gaz. vol. 214; p. 459.
- Duster. A. G. Barron. No. 1,153,011; Sept. 7; Gaz. vol. 218; p. 231.
- Duster. F. M. Page. No. 1,130,325; Mar. 2; Gaz. vol. 212; p. 167.
- Duster, Shoe and pants. M. M. Hitt. No. 1,135,453; Apr. 13; Gaz. vol. 213; p. 529.
- Dye and making same, Composition of matter containing artificial. F. Reissmann. No. 1,134,486; Apr. 6; Gaz. vol. 213; p. 147.
- Dye, Azo. O. Günther. No. 1,159,375; Nov. 9; Gaz. vol. 220; p. 368.
- Dye, Azo. M. Herzberg. No. 1,160,406; Nov. 16; Gaz. vol. 220; p. 786.
- Dye, Brown sulfur. K. P. Gräler, M. Buff, and J. Flachslander. No. 1,126,630; Jan. 26; Gaz. vol. 210; p. 1330.
- Dye, Brown sulfur. C. Müller and W. Stober. No. 1,165,531; Dec. 28; Gaz. vol. 221; p. 1100.
- Dye, Mordant-dyeing azo. C. Mettler. No. 1,157,169; Oct. 19; Gaz. vol. 219; p. 699.
- Dye, Red vat. W. Bauer and A. Herre. No. 1,147,778; July 27; Gaz. vol. 216; p. 1047.
- Dye, Sulfur. B. Jaekel. No. 1,140,745; May 25; Gaz. vol. 214; p. 1170.
- Dye, Yellow azo. J. Huismann. No. 1,159,386; Nov. 9; Gaz. vol. 220; p. 372.
- Dyes and making same, Vat. G. Kalischer and D. Nissen. No. 1,129,574; Feb. 23; Gaz. vol. 211; p. 1143.
- Dyes and making same, Vat. G. Kalischer and D. Nissen. No. 1,129,575; Feb. 23; Gaz. vol. 211; p. 1144.
- Dyes, Azo. K. Desamari. No. 1,125,074; Jan. 19; Gaz. vol. 210; p. 737.
- Dyes, Azo. H. Jordan and W. Neelmeier. No. 1,127,261; Feb. 2; Gaz. vol. 211; p. 210.
- Dyes, Azo. R. Kothe and O. Dressel. No. 1,126,489; Jan. 26; Gaz. vol. 210; p. 1276.
- Dyes, Azo. W. Neelmeier and A. Sigwart. No. 1,128,813; Feb. 16; Gaz. vol. 211; p. 840.
- Dyes, Azo. H. Reindel. No. 1,126,656; Jan. 26; Gaz. vol. 210; p. 1339.
- Dyes for furs, hairs, and the like. A. Erlenbach and K. Marx. No. 1,144,181; June 22; Gaz. vol. 215; p. 1184.
- Dyes of the anthraquinone series and making same, Vat. A. L. Laska and E. J. Rath. No. 1,162,496; Nov. 30; Gaz. vol. 220; p. 1613.
- Dyes of the anthraquinone series, Greenish-blue. W. Herzberg and G. Hoppe. No. 1,131,516; Mar. 9; Gaz. vol. 212; p. 615.
- Dyes, Treating insoluble indigoid. R. Hutzler. No. 1,133,031; Mar. 23; Gaz. vol. 212; p. 1250.
- Dyes, Vat. O. Bally. No. 1,128,836; Feb. 16; Gaz. vol. 211; p. 849.
- Dyes, Yellow disazo. H. Geldermann and F. Haas. No. 1,166,346; Dec. 28; Gaz. vol. 221; p. 1391.
- Dyes, Yellow to brown vat. M. H. Isler. No. 1,126,475; Jan. 26; Gaz. vol. 210; p. 1271.
- Dyeing. A. J. Rau. No. 1,131,083; Mar. 9; Gaz. vol. 212; p. 465.
- Dyeing. J. Schmitz. No. 1,160,001; Nov. 9; Gaz. vol. 220; p. 592.
- Dyeing and like machinery, Compact. J., T., and E. Brandwood. No. 1,145,858; July 6; Gaz. vol. 216; p. 309.
- Dyeing and like treatment of textile material, Apparatus for. J. T., and E. Brandwood. No. 1,125,803; Jan. 19; Gaz. vol. 210; p. 999.
- Dyeing, Anilin-black. J. Steynis. No. 1,157,908; Oct. 26; Gaz. vol. 219; p. 1022.
- Dyeing apparatus. A. J. and J. A. Rau. No. 1,131,084; Mar. 9; Gaz. vol. 212; p. 465.
- Dyeing apparatus. J. T. Wood. No. 1,151,916; Aug. 31; Gaz. vol. 217; p. 1472.

Alphabetical list of inventions—Continued.

- Dyeing, Beam for use in. J. T. Wood. No. 1,151,917; Aug. 31; Gaz. vol. 217; p. 1473.
- Dyeing fabrics and similar purposes, Jigger for. H. L. Quick. No. 1,131,269; Mar. 9; Gaz. vol. 212; p. 530.
- Dyeing fabrics and similar purposes, Jigger for. H. L. Quick. No. 1,165,803; Dec. 28; Gaz. vol. 221; p. 1197.
- Dyeing hairs, furs, and the like, Preparation for. A. Erlenbach. No. 1,144,325; June 22; Gaz. vol. 215; p. 1234.
- Dyeing-machine. S. Barker. No. 1,141,301; June 1; Gaz. vol. 215; p. 77.
- Dyeing-machine. J. H. and D. M. Giles. No. 1,146,324; July 13; Gaz. vol. 216; p. 492.
- Dyeing-machine. J. T. Psarski. No. 1,155,438; Oct. 5; Gaz. vol. 219; p. 40.
- Dyeing-machine. W. Sehlbach. No. 1,162,259; Nov. 30; Gaz. vol. 220; p. 1532.
- Dyeing-machine. W. H. Shainline. No. 1,129,128; Feb. 23; Gaz. vol. 211; p. 938.
- Dyeing-machine, Circulating. T. Allsop and W. W. Sibson. No. 1,142,476; June 8; Gaz. vol. 215; p. 526.
- Dyeing-machine, Circulating. W. W. Sibson and T. Allsop. No. 1,150,306; Aug. 17; Gaz. vol. 217; p. 815.
- Dyeing-machine, Circulating rotary. G. E. Drum and J. H. Skitt. No. 1,125,497; Jan. 19; Gaz. vol. 210; p. 888.
- Dyeing machine, Warp-. J. G. King. No. 1,148,695; Aug. 3; Gaz. vol. 217; p. 76.
- Dyeing-machines, Spreader attachment for collapsible beams for. J. M. Payne. No. 1,140,283; May 18; Gaz. vol. 214; p. 973.
- Dyeing mechanism. W. W. Sibson and B. A. Parkes. No. 1,125,747; Jan. 19; Gaz. vol. 210; p. 979.
- Dyeing, Vat-. J. C. Hebden. No. 1,148,966; Aug. 3; Gaz. vol. 217; p. 171.
- Dyeings on cotton, Producing. H. Eichwede. No. 1,123,263; Jan. 5; Gaz. vol. 210; p. 21.
- Dyestuff, Azo. K. Desamari. No. 1,126,413; Jan. 26; Gaz. vol. 210; p. 1249.
- Dyestuff, Claret-red trisazo. F. Klingemann. No. 1,150,825; Aug. 17; Gaz. vol. 217; p. 995.
- Dyestuff, Red wool-. W. Tropp. No. 1,123,430; Jan. 5; Gaz. vol. 210; p. 80.
- Dyestuffs and making same, Arylamino-anthraquinone. G. Kränzlein, R. Hagenbach, and F. Giloy. No. 1,138,670; May 11; Gaz. vol. 214; p. 370.
- Dyestuffs and making same, Brownish-yellow wool-. R. Schmidlin. No. 1,162,109; Nov. 30; Gaz. vol. 220; p. 1480.
- Dyestuffs and making same, Finely-divided vat. A. Steindorff and R. Welde. No. 1,145,934; July 13; Gaz. vol. 216; p. 355.
- Dyestuffs and making same, Red wool-. O. Wulff. No. 1,154,826; Sept. 28; Gaz. vol. 218; p. 962.
- Dyestuffs and making same, Sulfur. A. Schmidt and G. Kränzlein. No. 1,128,371; Feb. 16; Gaz. vol. 211; p. 687.
- Dyestuffs and making same, Vat. K. Schirmacher and A. Voss. No. 1,123,390; Jan. 5; Gaz. vol. 210; p. 66.
- Dyestuffs and making same, Vat. A. Schmidt, K. Thiess, and E. Bryk. No. 1,123,368; Feb. 16; Gaz. vol. 211; p. 686.
- Dyestuffs and making same, Vat. K. Thiess. No. 1,151,628; Aug. 31; Gaz. vol. 217; p. 1373.
- Dyestuffs and making same, Yellow. H. Wagner and J. Erber. No. 1,160,471; Nov. 16; Gaz. vol. 220; p. 808.
- Dyestuffs and making same, Yellow chrome-mordant. H. Wagner, J. Erber, and E. Hoffa. No. 1,149,231; Aug. 10; Gaz. vol. 217; p. 367.
- Dyestuffs, Arylamino-anthraquinone. G. Kränzlein. No. 1,139,540; May 18; Gaz. vol. 214; p. 713.
- Dyestuffs, Azo. A. Blank, C. Heidenreich, and J. Jansen. No. 1,150,656; Aug. 17; Gaz. vol. 217; p. 937.
- Dyestuffs, Azo. O. Günther. No. 1,150,675; Aug. 17; Gaz. vol. 217; p. 943.
- Dyestuffs, Azo. M. Herzberg. No. 1,126,466; Jan. 26; Gaz. vol. 210; p. 1269.
- Dyestuffs, Azo. H. Levinstein and J. Baddiley. No. 1,153,555; Sept. 14; Gaz. vol. 218; p. 462.
- Dyestuffs insoluble in water and making them, Azo. A. L. Laska and A. Zitscher. No. 1,145,072; July 6; Gaz. vol. 216; p. 36.
- Dyestuffs, Manufacture of black vat. E. Wray. No. 1,157,485; Oct. 19; Gaz. vol. 219; p. 811.
- Dyestuffs, Manufacture of vat. E. Wray and F. Hess. No. 1,144,577; June 29; Gaz. vol. 215; p. 1347.
- Dyestuffs, Monoazo. K. Hagemann. No. 1,127,234; Feb. 2; Gaz. vol. 211; p. 201.
- Dyestuffs, Mordant azo. O. Staehlin. No. 1,155,765; Oct. 5; Gaz. vol. 219; p. 152.
- Dyestuffs of the triphenylmethane series and making same. A. Stock and F. Heim. (Reissue.) No. 13,969; Aug. 24; Gaz. vol. 217; p. 1310.
- Dyestuffs on the fiber by means of the one-bath method, Producing. F. Kunert and E. Acker. No. 1,127,027; Feb. 2; Gaz. vol. 211; p. 129.
- Dyestuffs, Triaryl-methane. E. Gartner and G. Köhres. No. 1,149,575; Aug. 10; Gaz. vol. 217; p. 490.
- Dynamic-braking controller. C. T. Henderson. No. 1,134,197; Apr. 6; Gaz. vol. 213; p. 41.
- Dynamic return indication-signal. W. S. Henry. No. 1,127,436; Feb. 9; Gaz. vol. 211; p. 310.
- Dynamo. M. S. Lysinger. No. 1,129,700; Feb. 23; Gaz. vol. 211; p. 1184.
- Dynamo-driving mechanism. J. L. Creveling. No. 1,139,493; May 18; Gaz. vol. 214; p. 696.
- Dynamo, Ignition-. C. T. Mason. No. 1,126,676; Jan. 26; Gaz. vol. 210; p. 1346.
- Dynamo, Ignition-. C. T. Mason. No. 1,133,990; Mar. 30; Gaz. vol. 212; p. 1622.
- Dynamo, Ignition-. C. T. Mason. No. 1,140,386; May 25; Gaz. vol. 214; p. 1045.
- Dynamo, Ignition-. C. T. Mason. No. 1,140,993; May 25; Gaz. vol. 214; p. 1259.
- Dynamo, Ignition-. C. T. Mason. No. 1,165,374; Dec. 21; Gaz. vol. 221; p. 1008.
- Dynamo-machine, Direct-current. W. Luyken. No. 1,139,201; May 11; Gaz. vol. 214; p. 559.
- Dynamo-mounting. W. I. Thomson. No. 1,148,551; Aug. 3; Gaz. vol. 217; p. 24.
- Dynamo-mounting. W. I. Thomson. No. 1,162,196; Nov. 30; Gaz. vol. 220; p. 1510.
- Dynamos, Distributer for ignition-. H. H. Wixon. No. 1,123,971; Jan. 5; Gaz. vol. 210; p. 262.
- Dynamos from car-axes, Means for driving. W. F. Bouché. No. 1,145,465; July 6; Gaz. vol. 216; p. 172.
- Dynamos, Power-transmission means for operating. A. Churchward. No. 1,153,372; Sept. 14; Gaz. vol. 218; p. 395.
- Dynamos, Reversible brush-holder for. J. L. Creveling. No. 1,164,260; Dec. 14; Gaz. vol. 221; p. 577.
- Dynamos, Reversible brush-holder for use with. J. L. Creveling. No. 1,164,263; Dec. 14; Gaz. vol. 221; p. 578.
- Dynamometer. J. A. Randall. No. 1,134,418; Apr. 6; Gaz. vol. 213; p. 121.
- Dynamometer. J. A. Randall. No. 1,136,366; Apr. 20; Gaz. vol. 213; p. 891.
- Dynamometer, Absorption. N. C. Johnson. No. 1,141,802; June 1; Gaz. vol. 215; p. 251.
- Ear and finger-nail cleaner. G. J. Metzger. No. 1,138,967; May 11; Gaz. vol. 214; p. 476.
- Ear-muff hinge. D. Basch. No. 1,149,806; Aug. 10; Gaz. vol. 217; p. 575.
- Ear-protector. C. M. Belanger. No. 1,158,966; Nov. 2; Gaz. vol. 220; p. 193.
- Ear-protector. A. Mallocc. No. 1,148,849; Aug. 3; Gaz. vol. 217; p. 131.
- Ear-ring, Hoop. C. F. Nesler. No. 1,139,309; May 11; Gaz. vol. 214; p. 594.
- Earth-anchor. C. R. Pleper. No. 1,123,368; Jan. 5; Gaz. vol. 210; p. 59.
- Earth-boring machine, Portable. A. Flesher. No. 1,139,176; May 11; Gaz. vol. 214; p. 551.
- Earth-handling machine. W. F. Brunt. No. 1,134,254; Apr. 6; Gaz. vol. 213; p. 63.
- Earth-handling mechanism. F. A. Renner. No. 1,160,199; Nov. 16; Gaz. vol. 220; p. 715.
- Earth-treating process and product. M. J. Welsh. No. 1,132,054; Mar. 16; Gaz. vol. 212; p. 842.
- Earth-treating process and product. M. J. Welsh. No. 1,159,450; Nov. 9; Gaz. vol. 220; p. 396.
- Earth working and handling machine. T. G. Schmeiser. No. 1,150,459; Aug. 17; Gaz. vol. 217; p. 868.
- Earthenware, Manufacture of hollow or like. E. W. Leigh. No. 1,135,825; Apr. 13; Gaz. vol. 213; p. 660.
- Earthenware-marking device. W. B. Gray. No. 1,157,380; Oct. 19; Gaz. vol. 219; p. 775.
- Earthworking implement. H. L. Bell. No. 1,132,152; Mar. 16; Gaz. vol. 212; p. 877.
- Easel. C. A. Agar. No. 1,134,802; Apr. 6; Gaz. vol. 213; p. 262.
- Easel. W. M. Carter. No. 1,124,294; Jan. 12; Gaz. vol. 210; p. 424.
- Easel. E. S. French and W. H. Carson. No. 1,141,704; June 1; Gaz. vol. 215; p. 219.
- Easel. C. T. Springman. No. 1,132,628; Mar. 23; Gaz. vol. 212; p. 1100.
- Easel. C. T. Springman. No. 1,132,629; Mar. 23; Gaz. vol. 212; p. 1101.
- Easel and paint-box holder, Combined. W. G. A. Jones. No. 1,128,324; Feb. 16; Gaz. vol. 211; p. 672.
- Easel, Photographer's. A. and L. Vandenburg. No. 1,148,554; Aug. 3; Gaz. vol. 217; p. 25.
- Easy-chair, Folding. W. Sievert. No. 1,165,548; Dec. 28; Gaz. vol. 221; p. 1107.
- Eaves-trough hanger. H. G. Andreas. No. 1,160,124; Nov. 16; Gaz. vol. 220; p. 689.
- Eaves-trough spouts, Automatic cut-off for. J. Kessler. No. 1,124,458; Jan. 12; Gaz. vol. 210; p. 483.
- Eccentric. H. H. Schuette. No. 1,144,731; June 29; Gaz. vol. 215; p. 1401.
- Edge setting and indenting machine. Z. Beaudry. No. 1,125,894; Jan. 19; Gaz. vol. 210; p. 1029.
- Edge-setting machine. E. N. Chandler. No. 1,144,170; June 22; Gaz. vol. 215; p. 1183.
- Edge-setting machine. F. B. Keall. No. 1,161,868; Nov. 30; Gaz. vol. 220; p. 1394.
- Edge-setting-machine attachment. R. J. B. Monchamp. No. 1,138,884; May 11; Gaz. vol. 214; p. 447.
- Edge-trimmer. J. Anderson. No. 1,140,233; May 18; Gaz. vol. 214; p. 957.
- Edger set-works. J. Sparks. No. 1,150,551; Aug. 17; Gaz. vol. 217; p. 901.
- Edging-die. C. Sonneborn. No. 1,151,624; Aug. 31; Gaz. vol. 217; p. 1372.

Alphabetical list of inventions—Continued.

- Edging, Embroidered. R. Loeb. No. 1,162,498; Nov. 30; Gaz. vol. 220; p. 1614.
- Edging-machine. H. C. Hart. No. 1,124,430; Jan. 12; Gaz. vol. 210; p. 472.
- Edging or jointing machines, Attachment for. J. H. Hiscock. No. 1,141,709; June 1; Gaz. vol. 215; p. 220.
- Edible-cutter. C. H. Payne. No. 1,129,223; Feb. 23; Gaz. vol. 211; p. 1020.
- Edible pastes, Die for forming. K. Gammel. No. 1,159,489; Nov. 9; Gaz. vol. 220; p. 409.
- Educational apparatus. L. M. Houseknecht. No. 1,141,340; June 1; Gaz. vol. 215; p. 90.
- Educational appliance. J. D. Beard. No. 1,158,774; Nov. 2; Gaz. vol. 220; p. 128.
- Educational appliance. A. Bechmann. No. 1,163,125; Dec. 7; Gaz. vol. 221; p. 136.
- Educational appliance. S. J. James. No. 1,161,685; Nov. 23; Gaz. vol. 220; p. 1285.
- Educational appliance. J. E. Peoples. No. 1,141,409; June 1; Gaz. vol. 215; p. 116.
- Educational appliance. E. Rooney. No. 1,129,019; Feb. 16; Gaz. vol. 211; p. 914.
- Educational appliance. W. H. Snyder. No. 1,150,550; Aug. 17; Gaz. vol. 217; p. 900.
- Educational appliance. S. J. Spitler. No. 1,138,807; May 11; Gaz. vol. 214; p. 420.
- Educational appliance. T. Winiecki. No. 1,142,651; June 8; Gaz. vol. 215; p. 585.
- Educational construction set. J. L. Pringle. No. 1,163,851; Dec. 14; Gaz. vol. 221; p. 437.
- Educational device. J. R. Clark. No. 1,139,256; May 11; Gaz. vol. 214; p. 577.
- Educational device. J. L. Ells. No. 1,142,947; June 15; Gaz. vol. 215; p. 729.
- Educational device. J. H. Fox. No. 1,136,663; Apr. 20; Gaz. vol. 213; p. 997.
- Educational device. A. E. Paul and W. F. Preuss. No. 1,148,616; Aug. 3; Gaz. vol. 217; p. 48.
- Educational device. T. E. Thompson. No. 1,163,184; Dec. 7; Gaz. vol. 221; p. 158.
- Educational device. S. Utsunomiya. No. 1,132,409; Mar. 16; Gaz. vol. 212; p. 971.
- Effervescent compound. E. H. Strickler. No. 1,150,901; Aug. 24; Gaz. vol. 217; p. 1078.
- Efficiency-recorder. M. H. Avram. No. 1,131,104; Mar. 9; Gaz. vol. 212; p. 472.
- Egg and butter carrier. A. J. Coughenour. No. 1,148,958; Aug. 3; Gaz. vol. 217; p. 167.
- Egg and cream beater. E. M. C. Schmidt. No. 1,154,940; Sept. 28; Gaz. vol. 218; p. 1000.
- Egg-beater. E. H. Cooley. No. 1,155,215; Sept. 28; Gaz. vol. 218; p. 1095.
- Egg-beater. O. C. Smith. No. 1,145,275; July 6; Gaz. vol. 216; p. 104.
- Egg-beater. R. Washburn. No. 1,134,170; Apr. 6; Gaz. vol. 213; p. 31.
- Egg-beater. M. Wickstrom. No. 1,124,567; Jan. 12; Gaz. vol. 210; p. 522.
- Egg-beater. E. Yiakas. No. 1,164,443; Dec. 14; Gaz. vol. 221; p. 643.
- Egg-beater, Automatic. J. J. McLoy. No. 1,148,032; July 27; Gaz. vol. 216; p. 1137.
- Egg-beater or the like. A. W. Johnston and A. A. Norton. No. 1,140,341; May 18; Gaz. vol. 214; p. 994.
- Egg-boiler. W. L. Deming. No. 1,138,850; May 11; Gaz. vol. 214; p. 436.
- Egg-boiler. H. Moe. No. 1,149,590; Aug. 10; Gaz. vol. 217; p. 495.
- Egg-boiler. J. F. Nichols. No. 1,137,657; Apr. 27; Gaz. vol. 213; p. 1385.
- Egg-boiler. C. W. Shields. No. 1,159,537; Nov. 9; Gaz. vol. 220; p. 425.
- Egg-boiling machine, Time-registering. G. W. and D. S. Wemple. No. 1,124,982; Jan. 12; Gaz. vol. 210; p. 670.
- Egg-box. C. T. Bloomer. No. 1,143,745; June 22; Gaz. vol. 215; p. 1030.
- Egg-box. J. E. Gavin. No. 1,161,652; Nov. 23; Gaz. vol. 220; p. 1273.
- Egg-box. W. A. Schurmann. No. 1,156,436; Oct. 12; Gaz. vol. 219; p. 412.
- Egg-candle. H. Johnson and A. C. Hollingworth. No. 1,141,062; May 25; Gaz. vol. 214; p. 1281.
- Egg-candleing machine. B. J. Shimota and G. B. Caraway. No. 1,142,535; June 8; Gaz. vol. 215; p. 547.
- Egg-carrier. M. H. Allen. No. 1,153,185; Sept. 14; Gaz. vol. 218; p. 327.
- Egg-carrier. M. Barrow. No. 1,139,628; May 18; Gaz. vol. 214; p. 744.
- Egg-carrier. L. A. Degginger. No. 1,124,713; Jan. 12; Gaz. vol. 210; p. 574.
- Egg-carrier. L. A. Degginger. No. 1,144,111; June 22; Gaz. vol. 215; p. 1159.
- Egg-carrier. F. A. Droz. No. 1,126,185; Jan. 26; Gaz. vol. 210; p. 1170.
- Egg-carrier. E. Duerr. No. 1,128,117; Feb. 9; Gaz. vol. 211; p. 550.
- Egg-carrier. G. Flesher. No. 1,134,445; Apr. 6; Gaz. vol. 213; p. 132.
- Egg-carrier. J. P. Harper and A. W. Krupp. No. 1,125,313; Jan. 19; Gaz. vol. 210; p. 824.
- Egg-carrier. H. S. Jenne. No. 1,128,148; Feb. 9; Gaz. vol. 211; p. 561.
- Egg-carrier. W. P. King. No. 1,136,237; Apr. 20; Gaz. vol. 213; p. 844.
- Egg-carrier. B. Schverma. No. 1,140,005; May 18; Gaz. vol. 214; p. 878.
- Egg-carrier. M. K. Swartz. No. 1,138,514; May 4; Gaz. vol. 214; p. 278.
- Egg-carrier. W. D. Ticknor. No. 1,155,972; Oct. 5; Gaz. vol. 219; p. 225.
- Egg-carrier. H. S. Willis. No. 1,144,674; June 29; Gaz. vol. 215; p. 1380.
- Egg carrier or box. P. J. Nagle. No. 1,131,728; Mar. 16; Gaz. vol. 212; p. 722.
- Egg-carrier, Parcel-post. M. B. Wallace. No. 1,131,579; Mar. 9; Gaz. vol. 212; p. 635.
- Egg-carton. O. Opsjón. No. 1,125,872; Jan. 19; Gaz. vol. 210; p. 1021.
- Egg-carton carrier. E. F. Yulke. No. 1,158,095; Oct. 26; Gaz. vol. 219; p. 1087.
- Egg carton or case. I. N. Phipps. No. 1,150,384; Aug. 17; Gaz. vol. 217; p. 842.
- Egg-case. A. J. Coughenour. No. 1,163,394; Dec. 7; Gaz. vol. 221; p. 231.
- Egg-case. A. T. Holton. No. 1,124,438; Jan. 12; Gaz. vol. 210; p. 475.
- Egg-case. J. J. Lassalette. No. 1,136,882; Apr. 20; Gaz. vol. 213; p. 1074.
- Egg-case. C. A. Perkins. No. 1,130,840; Mar. 9; Gaz. vol. 212; p. 382.
- Egg-case. J. A. Reynolds. No. 1,126,274; Jan. 26; Gaz. vol. 210; p. 1200.
- Egg-case. F. Rittich. No. 1,151,046; Aug. 24; Gaz. vol. 217; p. 1129.
- Egg-case. J. M. Shelton. No. 1,143,146; June 15; Gaz. vol. 215; p. 797.
- Egg-case. E. S. Wetsel. No. 1,135,564; Apr. 13; Gaz. vol. 213; p. 568.
- Egg-case, Collapsible. W. E. Peyton. No. 1,141,357; June 1; Gaz. vol. 215; p. 96.
- Egg-case filler. J. H. Carter. No. 1,143,036; June 15; Gaz. vol. 215; p. 759.
- Egg-case filler. C. F. Daly. No. 1,134,823; Apr. 6; Gaz. vol. 213; p. 268.
- Egg-case filler. J. Petrich. No. 1,165,204; Dec. 21; Gaz. vol. 221; p. 950.
- Egg-case filler or container for fragile articles. J. G. McCarthy. No. 1,159,400; Nov. 9; Gaz. vol. 220; p. 377.
- Egg-case fillers, Apparatus for preparing flats for use in. P. Mandeville. No. 1,143,055; June 15; Gaz. vol. 215; p. 766.
- Egg case or crate, Folding. F. F. Lee. No. 1,165,885; Dec. 28; Gaz. vol. 221; p. 1225.
- Egg-container. W. H. Lewis. No. 1,139,302; May 11; Gaz. vol. 214; p. 592.
- Egg-conveyer. W. N. Bauer. No. 1,134,807; Apr. 6; Gaz. vol. 213; p. 263.
- Egg-drying apparatus. A. L. Galusha. No. 1,158,477; Nov. 2; Gaz. vol. 220; p. 23.
- Egg-filler. A. C. Bussey. No. 1,146,749; July 13; Gaz. vol. 216; p. 640.
- Egg-filler. J. W. Eggleston. No. 1,156,219; Oct. 12; Gaz. vol. 219; p. 335.
- Egg-grip. W. M. Brown. No. 1,156,459; Oct. 12; Gaz. vol. 219; p. 420.
- Egg-holder. R. L. Marvin. No. 1,124,050; Jan. 5; Gaz. vol. 210; p. 289.
- Egg-mailing case. O. W. Ward. No. 1,149,877; Aug. 10; Gaz. vol. 217; p. 600.
- Egg-package. L. S. Bache. No. 1,149,489; Aug. 10; Gaz. vol. 217; p. 459.
- Egg-shipping case. O. O. Gilbertson. No. 1,128,868; Feb. 16; Gaz. vol. 211; p. 859.
- Egg-shipping case. H. C. Hackett. No. 1,153,620; Sept. 14; Gaz. vol. 218; p. 484.
- Egg-shipping container. E. T. Nowell. No. 1,140,280; May 18; Gaz. vol. 214; p. 972.
- Egg-sorting device. W. H. Collins. No. 1,143,613; June 22; Gaz. vol. 215; p. 986.
- Egg-stamp. J. E. Lomas. No. 1,150,280; Aug. 17; Gaz. vol. 217; p. 807.
- Egg substitute and making it. B. Ray. No. 1,154,805; Sept. 28; Gaz. vol. 218; p. 954.
- Egg-tester. F. W. Dobbel. No. 1,144,466; June 29; Gaz. vol. 215; p. 1310.
- Egg-tester. S. A. Eberle. No. 1,135,101; Apr. 13; Gaz. vol. 213; p. 407.
- Egg-tester. W. E. Frost. No. 1,149,358; Aug. 10; Gaz. vol. 217; p. 414.
- Egg-tester. J. M. Halley. No. 1,130,270; Mar. 2; Gaz. vol. 212; p. 149.
- Egg-tester. O. Meyer. No. 1,127,794; Feb. 9; Gaz. vol. 211; p. 437.
- Egg-tester. H. Niehoff. No. 1,135,837; Apr. 13; Gaz. vol. 213; p. 665.
- Egg-tester. A. L. Schooler. No. 1,148,997; Aug. 3; Gaz. vol. 217; p. 131.
- Egg-tester. F. W. Schroeder. No. 1,161,793; Nov. 23; Gaz. vol. 220; p. 1322.
- Egg-tester and mailing-tube, Combined. G. W. Goudy. No. 1,156,476; Oct. 12; Gaz. vol. 219; p. 426.

- Egg tester or container. J. H. Emkins. No. 1,153,298; Sept. 14; Gaz. vol. 218; p. 367.
- Egg-testing apparatus. Y. Van Woerden. No. 1,141,593; June 1; Gaz. vol. 215; p. 180.
- Egg-testing device. T. McLaughlin. No. 1,146,434; July 13; Gaz. vol. 216; p. 531.
- Egg-testing machine. S. J. Fish. No. 1,155,905; Oct. 5; Gaz. vol. 219; p. 202.
- Egg tray and carrier. J. L. Webster. No. 1,149,103; Aug. 3; Gaz. vol. 217; p. 216.
- Egg-turning device. E. V. Anderson. No. 1,136,918; Apr. 27; Gaz. vol. 213; p. 1123.
- Egg-turning tray. H. D. A. Miller. No. 1,123,567; Jan. 5; Gaz. vol. 210; p. 126.
- Egg-wrapper. J. F. Jones and L. P. Rexford. No. 1,123,884; Jan. 5; Gaz. vol. 210; p. 234.
- Eggs and similar articles, Transporting-receptacle for. I. A. Milliron. No. 1,165,110; Dec. 21; Gaz. vol. 221; p. 917.
- Eggs, &c., Carrier for. F. B. McKenney. No. 1,123,565; Jan. 5; Gaz. vol. 210; p. 125.
- Eggs, Device for safe transportation of. F. K. Plumbly. No. 1,129,119; Feb. 23; Gaz. vol. 211; p. 984.
- Eggs, fruits, and the like carrier. L. A. Degginger. No. 1,143,593; June 15; Gaz. vol. 215; p. 955.
- Eggs or the like, Carrier for. B. M. Schaubman. No. 1,165,133; Dec. 21; Gaz. vol. 221; p. 926.
- Eggs, Preservation of. H. J. Keith. No. 1,137,761; May 4; Gaz. vol. 214; p. 14.
- Eggs, Preserving. V. Clairemont. No. 1,127,733; Feb. 9; Gaz. vol. 211; p. 414.
- Eggs, Preserving. E. R. Gill. No. 1,161,124; Nov. 23; Gaz. vol. 220; p. 1087.
- Eggs, Treating. H. E. Thornburgh. No. 1,163,873; Dec. 14; Gaz. vol. 221; p. 444.
- Ejecting device. R. Wood. No. 1,133,601; Mar. 30; Gaz. vol. 212; p. 1487.
- Ejector. M. Leblanc. No. 1,137,767; May 4; Gaz. vol. 214; p. 16.
- Ejector, Fluid-pressure-operated. W. Buckley. No. 1,127,726; Feb. 9; Gaz. vol. 211; p. 412.
- Elastic connection. L. Brown. No. 1,165,839; Dec. 28; Gaz. vol. 221; p. 1208.
- Elastic-fluid engine. S. Z. de Ferranti. No. 1,132,456; Mar. 16; Gaz. vol. 212; p. 989.
- Elastic or cushioned wheel. C. P. McMullen. No. 1,127,790; Feb. 9; Gaz. vol. 211; p. 435.
- Elastic product and producing same. G. Nüth. No. 1,159,257; Nov. 2; Gaz. vol. 220; p. 295.
- Elastic products and substitutes for natural lacs, Preparation of. G. Nüth. No. 1,159,258; Nov. 2; Gaz. vol. 220; p. 295.
- Elastic substances, Manufacture of. F. W. Herbold. No. 1,151,948; Aug. 31; Gaz. vol. 217; p. 1481.
- Elastic wheel. E. Aimond. No. 1,155,865; Oct. 5; Gaz. vol. 219; p. 189.
- Elastic wheel. A. W. Delane. No. 1,131,775; Mar. 16; Gaz. vol. 212; p. 741.
- Elastic wheel. J. Kohler. No. 1,151,019; Aug. 24; Gaz. vol. 217; p. 1119.
- Elastic wheel. P. B. Marcus and E. R. Böhme. No. 1,139,429; May 11; Gaz. vol. 214; p. 638.
- Elbow, Flexible. J. H. Moore. No. 1,136,548; Apr. 20; Gaz. vol. 213; p. 956.
- Elbow-forming machine. R. R. Robertson. No. 1,160,326; Nov. 16; Gaz. vol. 220; p. 758.
- Elbow-machine. P. F. Flagg. No. 1,161,852; Nov. 30; Gaz. vol. 220; p. 1389.
- Electric accumulator. H. A. Kinney. No. 1,123,756; Jan. 5; Gaz. vol. 210; p. 191.
- Electric alarm. R. S. Smith. No. 1,148,411; July 27; Gaz. vol. 216; p. 1272.
- Electric apparatus. C. L. Fortescue. No. 1,144,648; June 29; Gaz. vol. 215; p. 1371.
- Electric apparatus for motor-vehicles. E. A. Halbleib. No. 1,150,676; Aug. 17; Gaz. vol. 217; p. 944.
- Electric apparatus, Gas or vapor. P. H. Thomas. No. 1,156,257; Oct. 12; Gaz. vol. 219; p. 348.
- Electric apparatus, Gas or vapor. P. H. Thomas. No. 1,156,825; Oct. 12; Gaz. vol. 219; p. 547.
- Electric apparatus, Means for suppressing the resistance of the negative-electrode flame in vapor. P. C. Hewitt. No. 1,157,779; Oct. 26; Gaz. vol. 219; p. 974.
- Electric apparatus, Operating vapor. P. H. Thomas. No. 1,163,706; Dec. 14; Gaz. vol. 221; p. 385.
- Electric apparatus, Protecting device for vapor. J. C. Pole. No. 1,158,842; Nov. 2; Gaz. vol. 220; p. 153.
- Electric apparatus, Single-phase gas or vapor. P. H. Thomas. No. 1,163,707; Dec. 14; Gaz. vol. 221; p. 385.
- Electric-apparatus terminal. W. S. Hadaway, Jr. No. 1,154,626; Sept. 23; Gaz. vol. 218; p. 894.
- Electric apparatus, Therapeutic. R. H. Wappler. No. 1,127,554; Feb. 9; Gaz. vol. 211; p. 352.
- Electric apparatus, Vapor. E. B. Darrois and M. A. E. Leblanc. No. 1,161,801; Nov. 23; Gaz. vol. 220; p. 1325.
- Electric apparatus, Vapor. P. C. Hewitt. No. 1,163,666; Dec. 14; Gaz. vol. 221; p. 370.
- Electric apparatus, Vapor. Y. Sakai. No. 1,148,628; Aug. 3; Gaz. vol. 217; p. 52.
- Electric apparatus, Vapor. E. Weintraub. No. 1,134,785; Apr. 6; Gaz. vol. 213; p. 257.
- Electric-arc extinguisher. F. M. Locke. No. 1,127,043; Feb. 2; Gaz. vol. 211; p. 134.
- Electric attachment device. C. J. Klein. No. 1,160,610; Nov. 16; Gaz. vol. 220; p. 863.
- Electric battery. W. C. Bauer. No. 1,134,093; Apr. 6; Gaz. vol. 213; p. 4.
- Electric battery. H. Csanyi. No. 1,130,710. Mar. 9; Gaz. vol. 212; p. 338.
- Electric battery. F. S. B. de Mello. No. 1,148,152; July 27; Gaz. vol. 216; p. 1182.
- Electric battery. G. P. Heinrich and J. E. Dunn. No. 1,161,668; Nov. 23; Gaz. vol. 220; p. 1279.
- Electric battery. V. Holzappel, Jr. No. 1,132,846; Mar. 23; Gaz. vol. 212; p. 1181.
- Electric battery. F. N. Mason. No. 1,149,665; Aug. 10; Gaz. vol. 217; p. 526.
- Electric battery, Primary. G. A. Lutz. No. 1,161,322; Nov. 23; Gaz. vol. 220; p. 1159.
- Electric battery, Primary. G. A. Lutz. No. 1,163,163; Dec. 7; Gaz. vol. 221; p. 160.
- Electric battery, Refillable. F. N. Mason. No. 1,149,666; Aug. 10; Gaz. vol. 217; p. 526.
- Electric binding-post. R. K. Witz. No. 1,164,440; Dec. 14; Gaz. vol. 221; p. 643.
- Electric-bulb holder. H. Scherer. No. 1,151,219; Aug. 24; Gaz. vol. 217; p. 1188.
- Electric cable. J. L. Conrad. No. 1,157,208; Oct. 19; Gaz. vol. 219; p. 713.
- Electric cable, Brush-holder and terminal for connecting. R. H. Cunningham. No. 1,132,304; Mar. 16; Gaz. vol. 212; p. 935.
- Electric-cable splices, Insulator for high-voltage. F. Klenk. No. 1,146,717; July 13; Gaz. vol. 216; p. 629.
- Electric-cable terminal. G. L. Herz. No. 1,139,973; May 18; Gaz. vol. 214; p. 866.
- Electric cables, Combined bushing and clamp for. O. Moessner. No. 1,161,150; Nov. 23; Gaz. vol. 220; p. 1096.
- Electric cables, Manufacture of. G. A. Anderegg. No. 1,124,249; Jan. 12; Gaz. vol. 210; p. 406.
- Electric cables, Means for preventing current leakage in. S. D. Sprong and W. E. McCoy. No. 1,165,140; Dec. 21; Gaz. vol. 221; p. 929.
- Electric cables, Means for preventing current leakage in. S. D. Sprong and W. E. McCoy. No. 1,165,141; Dec. 21; Gaz. vol. 221; p. 929.
- Electric cables, Mechanism for winding insulated. G. A. Johnson. No. 1,159,947; Nov. 9; Gaz. vol. 220; p. 575.
- Electric cables or the like, Suspender for. P. Huntington. No. 1,128,606; Feb. 16; Gaz. vol. 211; p. 768.
- Electric cables to subway or junction boxes, Union for connecting. D. C. Hooker. No. 1,135,376; Apr. 13; Gaz. vol. 213; p. 500.
- Electric chair. J. J. Odenwald. No. 1,164,205; Dec. 14; Gaz. vol. 221; p. 558.
- Electric change-over switch. T. Jessen. No. 1,152,516; Sept. 7; Gaz. vol. 218; p. 49.
- Electric charges in fibrous materials, Apparatus for neutralizing. P. Rasehorn and G. Grossmann. No. 1,154,127; Sept. 21; Gaz. vol. 218; p. 693.
- Electric-circuit connector. W. P. Mulligan. No. 1,158,708; Nov. 2; Gaz. vol. 220; p. 103.
- Electric-circuit controller. C. H. Carter. No. 1,123,484; Jan. 5; Gaz. vol. 210; p. 98.
- Electric-circuit controller. A. F. Feller. No. 1,126,434; Jan. 26; Gaz. vol. 210; p. 1257.
- Electric-circuit controller. H. D. James. No. 1,164,001; Dec. 14; Gaz. vol. 221; p. 488.
- Electric-circuit controller. F. Ptok. No. 1,123,373; Jan. 5; Gaz. vol. 210; p. 61.
- Electric-circuit-controlling switch. W. E. Gorton. No. 1,146,064; July 13; Gaz. vol. 216; p. 401.
- Electric-circuit-controlling switch. E. Oppenheim and T. J. Burns. No. 1,146,016; July 13; Gaz. vol. 216; p. 384.
- Electric-circuit current-controlling device. G. A. Burnham. No. 1,124,290; Jan. 12; Gaz. vol. 210; p. 422.
- Electric-circuit-protecting apparatus. G. R. Fessenden, Jr. No. 1,124,599; Jan. 12; Gaz. vol. 210; p. 533.
- Electric-circuit protective apparatus. W. E. Britton. No. 1,150,926; Aug. 24; Gaz. vol. 217; p. 1088.
- Electric-circuit regulator. G. Honold. No. 1,159,674; Nov. 9; Gaz. vol. 220; p. 474.
- Electric-circuit regulator. T. Varney. No. 1,140,926; May 25; Gaz. vol. 214; p. 1236.
- Electric-circuit-timing device. R. C. Leake. No. 1,155,322; Sept. 28; Gaz. vol. 218; p. 1129.
- Electric circuits, Lock-switch for. S. M. Blake and J. W. Bates. No. 1,132,700; Mar. 23; Gaz. vol. 212; p. 1126.
- Electric circuits, Make-and-break device for. J. T. Boyle. No. 1,165,312; Dec. 21; Gaz. vol. 221; p. 986.
- Electric circuits, Plug-receptacle box for. W. F. Meschenmoser. No. 1,160,187; Nov. 16; Gaz. vol. 220; p. 711.
- Electric circuits, Teletype system for. C. E. Beach. No. 1,134,435; Apr. 6; Gaz. vol. 213; p. 128.
- Electric circuits, Time-controlled switch mechanism for. H. B. McCabe. No. 1,129,996; Mar. 2; Gaz. vol. 212; p. 55.
- Electric compensator. G. A. Burnham. No. 1,140,247; May 18; Gaz. vol. 214; p. 961.

Alphabetical list of inventions—Continued.

- Electric condenser. G. Reuthe. No. 1,151,824; Aug. 31; Gaz. vol. 217; p. 1441.
- Electric condenser or Leyden jar. A. N. Hovland. No. 1,139,976; May 18; Gaz. vol. 214; p. 867.
- Electric-conductor-protecting means. J. T. Hickey. No. 1,147,021; July 20; Gaz. vol. 216; p. 756.
- Electric conductors. Device for relieving the pull on the rope for coupling devices for. W. Schmidt. No. 1,139,138; May 11; Gaz. vol. 214; p. 537.
- Electric conductors. Means for smoothing and ironing the insulating-wrapping of. A. Finckbein. No. 1,155,345; Oct. 5; Gaz. vol. 219; p. 7.
- Electric conductors. Support for. T. J. Cope. No. 1,129,553; Feb. 23; Gaz. vol. 211; p. 1136.
- Electric conductors. Take-up for flexible. E. F. Rueckert. No. 1,153,829; Sept. 14; Gaz. vol. 218; p. 557.
- Electric-conduit fitting. C. H. Bissell and F. Smith. No. 1,156,583; Oct. 12; Gaz. vol. 219; p. 463.
- Electric-conduit fitting. J. C. Phelps. No. 1,165,205; Dec. 21; Gaz. vol. 221; p. 951.
- Electric conduits. Terminal fitting for. J. C. Phelps. No. 1,141,484; June 1; Gaz. vol. 215; p. 143.
- Electric connector. J. C. Stearns. (Reissue.) No. 14,020; Nov. 23; Gaz. vol. 220; p. 1339.
- Electric connector. E. F. Wakefield. No. 1,154,354; Sept. 21; Gaz. vol. 218; p. 772.
- Electric connector or tapping devices. Apparatus for handling. J. M. Downs. No. 1,128,956; Feb. 16; Gaz. vol. 211; p. 892.
- Electric contact device. A. A. Kent. No. 1,152,642; Sept. 7; Gaz. vol. 218; p. 97.
- Electric control for delivery of power. C. R. Pratt. No. 1,159,082; Nov. 2; Gaz. vol. 220; p. 232.
- Electric controlling device. W. K. Howe. No. 1,163,154; Dec. 7; Gaz. vol. 221; p. 146.
- Electric cord-plug. T. F. Clark. No. 1,126,394; Jan. 26; Gaz. vol. 210; p. 1243.
- Electric coupling. A. Schmidt. No. 1,166,087; Dec. 28; Gaz. vol. 221; p. 1295.
- Electric coupling or connector. J. Wilkie. No. 1,132,294; Mar. 16; Gaz. vol. 212; p. 931.
- Electric-current collector. T. B. G. Janssen. No. 1,123,543; Jan. 5; Gaz. vol. 210; p. 119.
- Electric-current conducting and distributing means. F. A. Zika. No. 1,133,524; Mar. 30; Gaz. vol. 212; p. 1460.
- Electric-current-controlling means. C. R. England. No. 1,154,849; Sept. 28; Gaz. vol. 218; p. 968.
- Electric-current economizer. W. L. Inlay. No. 1,126,016; Jan. 26; Gaz. vol. 210; p. 1106.
- Electric-current generator. J. M. Wilson. No. 1,136,078; Apr. 20; Gaz. vol. 213; p. 788.
- Electric-current generator. J. M. Wilson. No. 1,142,866; June 15; Gaz. vol. 215; p. 699.
- Electric-current generator. Intermittent. J. Carter. No. 1,130,257; Mar. 2; Gaz. vol. 212; p. 144.
- Electric-current tap. C. D. McLean and G. H. Holt. No. 1,146,084; July 13; Gaz. vol. 216; p. 408.
- Electric-current-translating devices, fuses, &c.. Testing device for. H. L. Bartlett. No. 1,139,832; May 18; Gaz. vol. 214; p. 816.
- Electric currents into unidirectional currents. Method and apparatus for converting alternating or pulsating. R. W. Lohman. No. 1,143,213; June 15; Gaz. vol. 215; p. 823.
- Electric currents. Limiter and interrupter of alternating. A. W. Burke. No. 1,123,677; Jan. 5; Gaz. vol. 210; p. 164.
- Electric currents. Means for increasing the strength of. L. De Forest. No. 1,134,594; Apr. 6; Gaz. vol. 213; p. 187.
- Electric currents. Method of and apparatus for arresting. A. R. Sharples. No. 1,133,671; Mar. 30; Gaz. vol. 212; p. 1515.
- Electric currents. Solid rectifier for feeble. G. W. Pickard. No. 1,137,714; Apr. 27; Gaz. vol. 213; p. 1403.
- Electric cut-out. W. C. Arsem. No. 1,157,919; Oct. 26; Gaz. vol. 219; p. 1025.
- Electric despatch system. K. E. Stuart. No. 1,150,902; Aug. 24; Gaz. vol. 217; p. 1078.
- Electric-despatch system. Alternating-current. K. E. Stuart. No. 1,164,671; Dec. 21; Gaz. vol. 221; p. 763.
- Electric device for therapeutics. Thermo. J. B. Wagoner. No. 1,154,144; Sept. 21; Gaz. vol. 218; p. 699.
- Electric device. Low-resistance vapor. P. C. Hewitt. No. 1,156,227; Oct. 12; Gaz. vol. 219; p. 337.
- Electric device. Starter for vapor. P. H. Thomas. No. 1,144,396; June 29; Gaz. vol. 215; p. 1287.
- Electric device. Vapor. F. Conrad. No. 1,159,900; Nov. 9; Gaz. vol. 220; p. 557.
- Electric device. Vapor. W. W. Crawford. No. 1,151,345; Aug. 24; Gaz. vol. 217; p. 1229.
- Electric device. Vapor. L. E. Frost. No. 1,159,922; Nov. 9; Gaz. vol. 220; p. 566.
- Electric device. Vapor. R. P. Jackson. No. 1,159,944; Nov. 9; Gaz. vol. 220; p. 574.
- Electric device. Vapor. M. A. E. Leblanc. No. 1,161,485; Nov. 23; Gaz. vol. 220; p. 1216.
- Electric device. Vapor. Y. Sakai. No. 1,159,869; Nov. 9; Gaz. vol. 220; p. 546.
- Electric device. Vapor. R. G. Standerwick. No. 1,128,070; Feb. 9; Gaz. vol. 211; p. 534.
- Electric device. Vapor. E. Weintraub. No. 1,138,162; May 4; Gaz. vol. 214; p. 155.
- Electric device. Vapor. E. Weintraub. No. 1,138,163; May 4; Gaz. vol. 214; p. 156.
- Electric devices. Starting means for vapor. F. Conrad. No. 1,166,186; Dec. 28; Gaz. vol. 221; p. 1333.
- Electric door-operating apparatus. Floor selector-switch for. H. Pitts. No. 1,139,902; May 18; Gaz. vol. 214; p. 840.
- Electric drill. R. A. Norling. No. 1,158,543; Nov. 2; Gaz. vol. 220; p. 48.
- Electric drop-lights. Cord-adjuster for. G. E. Thorberg. No. 1,130,860; Mar. 9; Gaz. vol. 212; p. 389.
- Electric elevator. A. Rozier. No. 1,141,979; June 8; Gaz. vol. 215; p. 349.
- Electric energy. Wireless transmission of. R. C. Gallette. No. 1,140,150; May 18; Gaz. vol. 214; p. 929.
- Electric fitting. C. Wagner. No. 1,156,727; Oct. 12; Gaz. vol. 219; p. 514.
- Electric fixture. J. E. Keough. No. 1,134,954; Apr. 6; Gaz. vol. 213; p. 310.
- Electric fixture. L. Schepmoes. No. 1,123,389; Jan. 5; Gaz. vol. 210; p. 66.
- Electric-fixture support. C. H. Groffman. No. 1,131,059; Mar. 9; Gaz. vol. 212; p. 457.
- Electric fluid-heater. T. J. Nash. No. 1,132,604; Mar. 23; Gaz. vol. 212; p. 1090.
- Electric furnace. J. Blatchford. No. 1,129,842; Mar. 2; Gaz. vol. 212; p. 4.
- Electric furnace. P. A. Boeck. No. 1,158,971; Nov. 2; Gaz. vol. 220; p. 195.
- Electric furnace. P. A. Boeck. No. 1,158,972; Nov. 2; Gaz. vol. 220; p. 195.
- Electric furnace. J. W. Brown. No. 1,134,817; Apr. 6; Gaz. vol. 213; p. 266.
- Electric furnace. J. W. Brown. No. 1,143,940; June 22; Gaz. vol. 215; p. 1097.
- Electric furnace. J. W. Brown. No. 1,147,703; July 27; Gaz. vol. 216; p. 1021.
- Electric furnace. P. Bunet. No. 1,145,748; July 6; Gaz. vol. 216; p. 271.
- Electric furnace. E. F. Collins. No. 1,156,668; Oct. 12; Gaz. vol. 219; p. 494.
- Electric furnace. A. Dow. No. 1,161,634; Nov. 23; Gaz. vol. 220; p. 1267.
- Electric furnace. S. Guggenheim. No. 1,157,691; Oct. 26; Gaz. vol. 219; p. 946.
- Electric furnace. C. Hering. No. 1,162,773; Dec. 7; Gaz. vol. 221; p. 14.
- Electric furnace. W. S. Horry. No. 1,130,734; Mar. 9; Gaz. vol. 212; p. 346.
- Electric furnace. J. M. Lohr and H. W. Gillett. No. 1,162,178; Nov. 30; Gaz. vol. 220; p. 1504.
- Electric furnace. J. M. Lohr and H. W. Gillett. No. 1,162,179; Nov. 30; Gaz. vol. 220; p. 1505.
- Electric furnace. J. G. Marshall. No. 1,127,475; Feb. 9; Gaz. vol. 211; p. 326.
- Electric furnace. J. G. Marshall. No. 1,149,203; Aug. 10; Gaz. vol. 217; p. 357.
- Electric furnace. S. Peacock. No. 1,129,512; Feb. 23; Gaz. vol. 211; p. 1122.
- Electric furnace. E. Stassano. No. 1,157,819; Oct. 26; Gaz. vol. 219; p. 988.
- Electric furnace. P. Wright. No. 1,152,586; Sept. 7; Gaz. vol. 218; p. 77.
- Electric furnace. W. J. Wrighton. No. 1,165,055; Dec. 21; Gaz. vol. 221; p. 896.
- Electric furnace and process of heating substances uniformly and at a controllable temperature. E. F. Von Wilmowsky. No. 1,128,640; Feb. 16; Gaz. vol. 211; p. 779.
- Electric furnace intended chiefly for the manufacture of nitrids. G. Coutagne. No. 1,158,899; Nov. 2; Gaz. vol. 220; p. 172.
- Electric fusible cut-out. H. P. Liversidge. No. 1,124,230; Jan. 5; Gaz. vol. 210; p. 353.
- Electric gang-fitting. G. B. Thomas. No. 1,133,197; Mar. 23; Gaz. vol. 212; p. 1308.
- Electric generator. J. Bell. No. 1,163,501; Dec. 7; Gaz. vol. 221; p. 268.
- Electric generator. J. L. Milton. No. 1,130,755; Mar. 9; Gaz. vol. 212; p. 353.
- Electric generator. C. A. Stickney. No. 1,143,662; June 22; Gaz. vol. 215; p. 1003.
- Electric-generator controller. R. A. Hoppe and T. L. Lee. No. 1,149,054; Aug. 3; Gaz. vol. 217; p. 201.
- Electric generator. Dynamo. F. Elchert. No. 1,145,575; July 6; Gaz. vol. 216; p. 209.
- Electric generator. Dynamo. J. O. Heinze, Jr. No. 1,153,076; Sept. 7; Gaz. vol. 218; p. 251.
- Electric generator. Dynamo. G. and L. Inrig. No. 1,128,270; Feb. 9; Gaz. vol. 211; p. 603.
- Electric generator. Dynamo. G. and L. Inrig. No. 1,149,998; Aug. 10; Gaz. vol. 217; p. 645.
- Electric generator. Magneto. N. M. Hopkins. No. 1,150,520; Aug. 17; Gaz. vol. 217; p. 889.
- Electric generator. Magneto. C. A. Stone and G. C. Brown. No. 1,128,914; Feb. 16; Gaz. vol. 211; p. 877.
- Electric-generator-operating device. W. S. Fiscus. No. 1,156,594; Oct. 12; Gaz. vol. 219; p. 467.
- Electric-generator prime movers. Controlling. T. H. Kerr. No. 1,165,418; Dec. 28; Gaz. vol. 221; p. 1063.

Alphabetical list of inventions—Continued.

- Electric generator, Thermo-. E. Garretson and E. W. Schlenker. No. 1,162,049; Nov. 30; Gaz. vol. 220; p. 1458.
- Electric generators, Apparatus for regulating the field density of. G. S. Neeley. No. 1,155,001; Sept. 28; Gaz. vol. 218; p. 1020.
- Electric generators, Voltage-regulator for. A. H. Olmsted. No. 1,162,506; Nov. 30; Gaz. vol. 220; p. 1617.
- Electric globes in sockets, Device for placing. F. A. Johnson. No. 1,128,453; Feb. 16; Gaz. vol. 211; p. 715.
- Electric governor. M. L. Severy and G. B. Sinclair. No. 1,161,349; Nov. 23; Gaz. vol. 220; p. 1169.
- Electric heater. C. M. Angell. No. 1,126,935; Feb. 2; Gaz. vol. 211; p. 95.
- Electric heater. A. O. Bailey. No. 1,147,916; July 27; Gaz. vol. 216; p. 1096.
- Electric heater. A. O. Bailey. No. 1,147,917; July 27; Gaz. vol. 216; p. 1096.
- Electric heater. H. W. Denhard. No. 1,143,572; June 15; Gaz. vol. 215; p. 947.
- Electric heater. H. W. Denhard. No. 1,143,578; June 15; Gaz. vol. 215; p. 949.
- Electric heater. H. W. Denhard. No. 1,143,579; June 15; Gaz. vol. 215; p. 949.
- Electric heater. H. W. Denhard. No. 1,145,977; July 13; Gaz. vol. 216; p. 370.
- Electric heater. E. E. Gold. No. 1,147,388; July 20; Gaz. vol. 216; p. 885.
- Electric heater. W. S. Hadaway, Jr. No. 1,131,060; Mar. 9; Gaz. vol. 212; p. 457.
- Electric heater. W. S. Hadaway, Jr. No. 1,150,426; Aug. 17; Gaz. vol. 217; p. 856.
- Electric heater. W. S. Hadaway, Jr. No. 1,150,429; Aug. 17; Gaz. vol. 217; p. 857.
- Electric heater. W. S. Hadaway, Jr. No. 1,154,111; Sept. 21; Gaz. vol. 218; p. 689.
- Electric heater. W. S. Hadaway, Jr. No. 1,154,115; Sept. 21; Gaz. vol. 218; p. 690.
- Electric heater. W. S. Hadaway, Jr. No. 1,155,483; Oct. 5; Gaz. vol. 219; p. 56.
- Electric heater. W. S. Hadaway, Jr. and E. N. Lightfoot. No. 1,145,988; July 13; Gaz. vol. 216; p. 374.
- Electric heater. H. H. Ingersoll. No. 1,162,363; Nov. 30; Gaz. vol. 220; p. 1568.
- Electric heater. F. F. Kitchen. No. 1,147,951; July 27; Gaz. vol. 216; p. 1108.
- Electric heater. F. Kuhn and F. E. Shailor. No. 1,154,410; Sept. 21; Gaz. vol. 218; p. 792.
- Electric heater. F. Kuhn and F. E. Shailor. No. 1,154,411; Sept. 21; Gaz. vol. 218; p. 792.
- Electric heater. E. N. Lightfoot. No. 1,144,981; June 29; Gaz. vol. 215; p. 1486.
- Electric heater. W. A. Miller. No. 1,137,513; Apr. 27; Gaz. vol. 213; p. 1338.
- Electric heater. S. I. Phelps. No. 1,153,703; Sept. 14; Gaz. vol. 218; p. 513.
- Electric heater. R. H. Read. No. 1,127,373; Feb. 2; Gaz. vol. 211; p. 246.
- Electric heater. R. H. Read. No. 1,127,374; Feb. 2; Gaz. vol. 211; p. 246.
- Electric heater. E. B. Ryce and W. Wallace. No. 1,151,403; Aug. 24; Gaz. vol. 217; p. 1247.
- Electric heater. G. J. Schneider. No. 1,127,526; Feb. 9; Gaz. vol. 211; p. 342.
- Electric heater. W. B. Underwood. No. 1,128,554; Feb. 16; Gaz. vol. 211; p. 750.
- Electric heater. B. Van Steenberg. No. 1,144,801; June 29; Gaz. vol. 215; p. 1426.
- Electric heater units, Socket for. W. S. Hadaway, Jr. and J. Amon. No. 1,154,112; Sept. 21; Gaz. vol. 218; p. 689.
- Electric heaters, Resistance for. E. A. Rutenber. No. 1,139,076; May 11; Gaz. vol. 214; p. 515.
- Electric heating element. R. J. M. Parke and E. D. Brand. No. 1,123,789; Jan. 5; Gaz. vol. 210; p. 202.
- Electric heating element. E. J. Rohne. No. 1,133,579; Mar. 30; Gaz. vol. 212; p. 1480.
- Electric heating-pad. H. E. Bloomer. No. 1,142,393; June 8; Gaz. vol. 215; p. 498.
- Electric heating-stopper for liquid-containers. E. C. Webster and H. Gruenhagen. No. 1,133,346; Mar. 30; Gaz. vol. 212; p. 1396.
- Electric horn. C. E. Avery. No. 1,148,348; July 27; Gaz. vol. 216; p. 1252.
- Electric-igniter distributor. C. T. Blake. No. 1,147,598; July 20; Gaz. vol. 216; p. 958.
- Electric igniters, Machine for preparing the conducting-wires of. J. Krannichfeldt. No. 1,147,516; July 20; Gaz. vol. 216; p. 929.
- Electric ignition device. J. E. Gallant. No. 1,164,082; Dec. 14; Gaz. vol. 221; p. 518.
- Electric ignition system. G. Honold. No. 1,124,023; Jan. 5; Gaz. vol. 210; p. 280.
- Electric ignition system. J. A. Struthers. No. 1,123,621; Jan. 5; Gaz. vol. 210; p. 145.
- Electric illumination. H. Deschere. No. 1,156,064; Oct. 12; Gaz. vol. 219; p. 283.
- Electric immersion-heater. H. A. Newcomb. No. 1,158,539; Nov. 2; Gaz. vol. 220; p. 47.
- Electric implement. L. Paulero. No. 1,128,036; Feb. 9; Gaz. vol. 211; p. 522.
- Electric indicating system. J. H. Boyden. No. 1,131,202; Mar. 9; Gaz. vol. 212; p. 506.
- Electric indicator. P. M. Lincoln. No. 1,156,414; Oct. 12; Gaz. vol. 219; p. 405.
- Electric installation, Box-connector for. W. H. Vibber. No. 1,134,565; Apr. 6; Gaz. vol. 213; p. 176.
- Electric insulation. J. A. Heany. No. 1,155,812; Oct. 5; Gaz. vol. 219; p. 171.
- Electric insulation. J. A. Heany. No. 1,155,813; Oct. 5; Gaz. vol. 219; p. 171.
- Electric iron. W. S. Hadaway, Jr. No. 1,150,427; Aug. 17; Gaz. vol. 217; p. 856.
- Electric iron. W. S. Hadaway, Jr. No. 1,150,428; Aug. 17; Gaz. vol. 217; p. 857.
- Electric iron. A. S. Heineinan. No. 1,150,431; Aug. 17; Gaz. vol. 217; p. 858.
- Electric-light attachment for bedsteads. C. W. Henderson. No. 1,135,523; Apr. 13; Gaz. vol. 213; p. 553.
- Electric-light-bath apparatus. B. Wiener. No. 1,162,424; Nov. 30; Gaz. vol. 220; p. 1588.
- Electric-light fitting. P. M. Hotchkiss. No. 1,129,982; Mar. 2; Gaz. vol. 212; p. 50.
- Electric-light fixture. W. J. Bohan. No. 1,156,585; Oct. 12; Gaz. vol. 219; p. 464.
- Electric-light fixture and the like. W. D. Herwig, Jr. No. 1,141,637; June 1; Gaz. vol. 215; p. 195.
- Electric-light hanger and adjuster for mast-arms. R. W. Van Dorn. No. 1,154,818; Sept. 28; Gaz. vol. 218; p. 959.
- Electric light, Portable. C. Hubert. No. 1,157,395; Oct. 19; Gaz. vol. 219; p. 780.
- Electric light, Portable. I. Koretzky. No. 1,146,628; July 13; Gaz. vol. 216; p. 600.
- Electric light, Portable. B. Tauber. No. 1,132,751; Mar. 23; Gaz. vol. 212; p. 1145.
- Electric-light-socket shell, Single-piece. H. W. Lawrence. No. 1,150,275; Aug. 17; Gaz. vol. 217; p. 806.
- Electric-light streamers, Making. J. A. Covit. No. 1,161,454; Nov. 23; Gaz. vol. 220; p. 1206.
- Electric-light support or base, Adjustable portable. J. L. Power. No. 1,162,394; Nov. 30; Gaz. vol. 220; p. 1578.
- Electric-light switch, Snap. J. Yuill. No. 1,143,876; June 22; Gaz. vol. 215; p. 1076.
- Electric-light switch, Time-controlled. W. C. Marrow and J. M. Biddle. No. 1,154,193; Sept. 21; Gaz. vol. 218; p. 715.
- Electric lights, Bowl-hanger for. L. G. Mitchell and G. H. Norquist. No. 1,162,504; Nov. 30; Gaz. vol. 220; p. 1616.
- Electric lights, Chain switch-pull for. J. E. Eade. No. 1,148,299; July 27; Gaz. vol. 216; p. 1232.
- Electric lights, Electric switch for portable. B. Tauber. No. 1,132,750; Mar. 23; Gaz. vol. 212; p. 1144.
- Electric lighting. W. W. Coblentz. No. 1,135,663; Apr. 13; Gaz. vol. 213; p. 604.
- Electric-lighting and battery-charging system for vehicles. A. Churchward. No. 1,152,878; Sept. 7; Gaz. vol. 218; p. 183.
- Electric-lighting device. C. E. Campbell. No. 1,161,840; Nov. 30; Gaz. vol. 220; p. 1385.
- Electric-lighting device for vehicles. D. C. Hughes. No. 1,146,939; July 20; Gaz. vol. 216; p. 728.
- Electric-lighting fixture. G. W. Bayley. No. 1,156,454; Oct. 12; Gaz. vol. 219; p. 418.
- Electric-lighting fixture. C. A. Brown. No. 1,157,294; Oct. 19; Gaz. vol. 219; p. 744.
- Electric-lighting fixture. J. H. Dale. No. 1,160,859; Nov. 16; Gaz. vol. 220; p. 949.
- Electric-lighting fixture. J. H. Dale. No. 1,160,860; Nov. 16; Gaz. vol. 220; p. 949.
- Electric-lighting fixture. W. W. Dean. No. 1,157,765; Oct. 26; Gaz. vol. 219; p. 970.
- Electric-lighting fixture. J. D. Raymond. No. 1,158,286; Oct. 26; Gaz. vol. 219; p. 1154.
- Electric-lighting fixture. P. W. Sprecher. No. 1,154,070; Sept. 21; Gaz. vol. 218; p. 674.
- Electric-lighting systems, Switch for. T. Spencer. No. 1,145,041; July 6; Gaz. vol. 216; p. 24.
- Electric-line construction, Overhead. T. Varney. No. 1,138,701; May 11; Gaz. vol. 214; p. 380.
- Electric-line support. T. Varney. No. 1,138,702; May 11; Gaz. vol. 214; p. 381.
- Electric lines, Transposition device for. G. W. Neel. No. 1,136,433; Apr. 20; Gaz. vol. 213; p. 916.
- Electric lock. W. A. Schutzmann. No. 1,124,666; Jan. 12; Gaz. vol. 210; p. 559.
- Electric machine. F. Ljungström. No. 1,147,107; July 20; Gaz. vol. 216; p. 786.
- Electric machine. J. B. Roche. No. 1,125,913; Jan. 19; Gaz. vol. 210; p. 1036.
- Electric machine, Alternating-current dynamo-. L. J. Hunt. No. 1,160,717; Nov. 16; Gaz. vol. 220; p. 900.
- Electric machine, Alternating-current synchronous dynamo-. J. Sachs. No. 1,125,728; Jan. 19; Gaz. vol. 210; p. 973.
- Electric machine and means for cooling same, Dynamo-. E. H. Porter. No. 1,145,612; July 6; Gaz. vol. 216; p. 221.
- Electric-machine casing, Dynamo-. A. C. Rutzen. No. 1,163,265; Dec. 7; Gaz. vol. 221; p. 186.
- Electric machine, Dynamo-. C. E. F. Ahlm. No. 1,132,144; Mar. 16; Gaz. vol. 212; p. 875.
- Electric machine, Dynamo-. C. E. F. Ahlm. No. 1,132,145; Mar. 16; Gaz. vol. 212; p. 875.

Alphabetical list of inventions—Continued.

- Electric machine, Dynamo-. V. G. Apple. No. 1,127,158; Feb. 2; Gaz. vol. 211; p. 174.
- Electric machine, Dynamo-. D. Balachowsky and P. Caire. No. 1,133,834; Mar. 30; Gaz. vol. 212; p. 1572.
- Electric machine, Dynamo-. B. A. Behrend. No. 1,135,656; Apr. 13; Gaz. vol. 213; p. 601.
- Electric machine, Dynamo-. A. J. Brown. No. 1,151,860; Aug. 31; Gaz. vol. 217; p. 1454.
- Electric machine, Dynamo-. E. F. Collins. No. 1,144,351; June 29; Gaz. vol. 215; p. 1272.
- Electric machine, Dynamo-. E. B. Cutten. No. 1,136,943; Apr. 27; Gaz. vol. 213; p. 1132.
- Electric machine, Dynamo-. W. W. Dean. No. 1,127,414; Feb. 9; Gaz. vol. 211; p. 301.
- Electric machine, Dynamo-. J. B. Entz. No. 1,162,991; Dec. 7; Gaz. vol. 221; p. 89.
- Electric machine, Dynamo-. H. F. T. Erben and W. J. Delles. No. 1,156,675; Oct. 12; Gaz. vol. 219; p. 497.
- Electric machine, Dynamo-. F. I. Hiss. No. 1,162,483; Nov. 30; Gaz. vol. 220; p. 1608.
- Electric machine, Dynamo-. F. I. Hiss, Jr. No. 1,162,482; Nov. 30; Gaz. vol. 220; p. 1606.
- Electric machine, Dynamo-. T. Hoock. No. 1,159,224; Nov. 2; Gaz. vol. 220; p. 283.
- Electric machine, Dynamo-. F. R. Kunkel. No. 1,123,319; Jan. 5; Gaz. vol. 210; p. 42.
- Electric machine, Dynamo-. B. G. Lamme. No. 1,138,672; May 11; Gaz. vol. 214; p. 370.
- Electric machine, Dynamo-. B. G. Lamme. No. 1,150,043; Aug. 17; Gaz. vol. 217; p. 721.
- Electric machine, Dynamo-. H. Lippelt. No. 1,124,630; Jan. 12; Gaz. vol. 210; p. 546.
- Electric machine, Dynamo-. H. Lippelt. No. 1,157,014; Oct. 19; Gaz. vol. 219; p. 645.
- Electric machine, Dynamo-. B. Mattman. No. 1,137,510; Apr. 27; Gaz. vol. 213; p. 1337.
- Electric machine, Dynamo-. H. McQuillin. No. 1,157,024; Oct. 19; Gaz. vol. 219; p. 648.
- Electric machine, Dynamo-. A. H. Neuland. No. 1,157,414; Oct. 19; Gaz. vol. 219; p. 787.
- Electric machine, Dynamo-. A. H. Neuland. No. 1,160,087; Nov. 9; Gaz. vol. 220; p. 621.
- Electric machine, Dynamo-. M. Osnos. No. 1,157,325; Oct. 19; Gaz. vol. 219; p. 755.
- Electric machine, Dynamo-. P. P. Polkowski. No. 1,145,081; July 6; Gaz. vol. 216; p. 39.
- Electric machine, Dynamo-. A. A. Price. No. 1,131,551; Mar. 9; Gaz. vol. 212; p. 626.
- Electric machine, Dynamo-. M. A. Savage. No. 1,135,327; Apr. 13; Gaz. vol. 213; p. 484.
- Electric machine, Dynamo-. O. F. Sire. No. 1,138,204; May 4; Gaz. vol. 214; p. 185.
- Electric machine, Dynamo-. C. W. Starker. No. 1,130,211; Mar. 2; Gaz. vol. 212; p. 128.
- Electric machine, Dynamo-. C. W. Starker. No. 1,156,639; Oct. 12; Gaz. vol. 219; p. 484.
- Electric machine, Dynamo-. C. W. Starker. No. 1,159,121; Nov. 2; Gaz. vol. 220; p. 245.
- Electric machine, Dynamo-. M. E. Thompson. No. 1,138,912; May 11; Gaz. vol. 214; p. 456.
- Electric machine, Dynamo-. W. Walker. No. 1,145,721; July 6; Gaz. vol. 216; p. 261.
- Electric machine, Dynamo-. M. Walker. No. 1,156,645; Oct. 12; Gaz. vol. 219; p. 486.
- Electric machine, Dynamo-. J. B. Wiard. No. 1,157,970; Oct. 26; Gaz. vol. 219; p. 1043.
- Electric machine, Dynamo-. R. B. Williamson. No. 1,152,683; Sept. 7; Gaz. vol. 218; p. 112.
- Electric machine, Dynamo-. R. B. Williamson. No. 1,157,137; Oct. 19; Gaz. vol. 219; p. 688.
- Electric machine, Dynamo-. G. Winter. No. 1,127,563; Feb. 9; Gaz. vol. 211; p. 354.
- Electric machine, Dynamo-. G. Winter. No. 1,127,564; Feb. 9; Gaz. vol. 211; p. 355.
- Electric machine, Dynamo-. J. J. Wood. No. 1,132,992; Mar. 23; Gaz. vol. 212; p. 1235.
- Electric machine for combined ignition and illumination purposes, Magneto-. F. R. Simms. No. 1,130,206; Mar. 2; Gaz. vol. 212; p. 127.
- Electric machine, Magneto-. F. Baier. No. 1,161,434; Nov. 23; Gaz. vol. 220; p. 1199.
- Electric machine, Magneto-. J. B. Frawley. No. 1,160,995; Nov. 16; Gaz. vol. 220; p. 997.
- Electric machine, Magneto-. O. Heins. No. 1,165,596; Dec. 28; Gaz. vol. 221; p. 1124.
- Electric machine, Magneto-. F. R. Simms. No. 1,155,521; Oct. 5; Gaz. vol. 219; p. 70.
- Electric machine, Means for exciting the commutating poles of a dynamo-. J. L. Woodbridge. No. 1,130,686; Mar. 2; Gaz. vol. 212; p. 296.
- Electric machine, Portable magneto-. C. Klemmer. No. 1,131,063; Mar. 9; Gaz. vol. 212; p. 458.
- Electric machine, Radial-pole dynamo-. O. T. Blathy. No. 1,142,009; June 8; Gaz. vol. 215; p. 361.
- Electric-machine support, Dynamo-. W. L. Bliss. No. 1,131,200; Mar. 9; Gaz. vol. 212; p. 506.
- Electric machines, Adjustable bearing for dynamo-. R. B. Williamson. No. 1,144,627; June 29; Gaz. vol. 215; p. 1364.
- Electric machines and the like, Brush for dynamo-. E. O. Schweitzer. No. 1,145,926; July 13; Gaz. vol. 216; p. 352.
- Electric machines, Assembling core structures for dynamo-. G. M. Eaton. No. 1,158,463; Nov. 2; Gaz. vol. 220; p. 18.
- Electric machines, Method of and means for operating synchronous dynamo-. W. J. Foster. No. 1,160,705; Nov. 16; Gaz. vol. 220; p. 896.
- Electric machines, Oil-guard for dynamo-. J. E. Webster. No. 1,135,087; Apr. 13; Gaz. vol. 213; p. 403.
- Electric machines, Regulation of dynamo-. L. L. Tatum. No. 1,134,244; Apr. 6; Gaz. vol. 213; p. 59.
- Electric machines, Retaining-ring for dynamo-. E. R. Knight. No. 1,131,249; Mar. 9; Gaz. vol. 212; p. 522.
- Electric machines, Reversible brush-holder for dynamo-. J. L. Creveling. No. 1,164,261; Dec. 14; Gaz. vol. 221; p. 577.
- Electric machines, Reversible brush-holder for dynamo-. J. L. Creveling. No. 1,164,262; Dec. 14; Gaz. vol. 221; p. 578.
- Electric machines, Rotor for dynamo-. A. Kingsbury. No. 1,162,493; Nov. 30; Gaz. vol. 220; p. 1612.
- Electric machines, Slot-closing device for dynamo-. W. L. R. Emmet. No. 1,154,496; Sept. 21; Gaz. vol. 218; p. 820.
- Electric machinery, Dynamo-. L. V. Grillet and J. B. Truchetet. No. 1,138,286; May 4; Gaz. vol. 214; p. 197.
- Electric mains, Safety connection for. M. Höchstädter. No. 1,154,394; Sept. 21; Gaz. vol. 218; p. 786.
- Electric metal-working apparatus. A. F. Rietzel and G. E. Barstow. No. 1,133,578; Mar. 30; Gaz. vol. 212; p. 1479.
- Electric meter. A. G. Davis. No. 1,157,926; Oct. 26; Gaz. vol. 219; p. 1027.
- Electric meter. E. Evans and H. Ziemendorf. No. 1,163,226; Dec. 7; Gaz. vol. 221; p. 172.
- Electric meter. M. Helm. No. 1,157,937; Oct. 26; Gaz. vol. 219; p. 1031.
- Electric meter. C. F. Kettering. No. 1,154,025; Sept. 21; Gaz. vol. 218; p. 659.
- Electric meter. W. M. Stempel. No. 1,138,513; May 4; Gaz. vol. 214; p. 277.
- Electric meter. J. Vivell. No. 1,156,827; Oct. 12; Gaz. vol. 219; p. 548.
- Electric meter, Recording. A. Herz. No. 1,156,226; Oct. 12; Gaz. vol. 219; p. 337.
- Electric meters, Method of and means for calibrating. O. T. Blathy. No. 1,160,567; Nov. 16; Gaz. vol. 220; p. 844.
- Electric metering, System of. E. Heilborn. No. 1,142,425; June 8; Gaz. vol. 215; p. 509.
- Electric motor. H. E. Adams. No. 1,137,729; May 4; Gaz. vol. 214; p. 4.
- Electric motor. W. Barnes, Jr. No. 1,135,093; Apr. 13; Gaz. vol. 213; p. 405.
- Electric motor. W. J. Bauroth. No. 1,125,039; Jan. 19; Gaz. vol. 210; p. 725.
- Electric motor. S. C. Bryant. No. 1,150,169; Aug. 17; Gaz. vol. 217; p. 767.
- Electric motor. J. B. Conrad. No. 1,132,445; Mar. 16; Gaz. vol. 212; p. 984.
- Electric motor. R. M. Gilson. No. 1,147,168; July 20; Gaz. vol. 216; p. 807.
- Electric motor. E. G. Hoffmann. No. 1,129,036; Feb. 16; Gaz. vol. 211; p. 920.
- Electric motor. J. S. Holliday. No. 1,147,170; July 20; Gaz. vol. 216; p. 808.
- Electric motor. B. G. Lamme. No. 1,151,804; Aug. 31; Gaz. vol. 217; p. 1434.
- Electric motor. N. D. Levin. No. 1,157,945; Oct. 26; Gaz. vol. 219; p. 1034.
- Electric motor. A. A. Radtke. No. 1,131,614; Mar. 9; Gaz. vol. 212; p. 648.
- Electric motor. F. L. Sessions. No. 1,130,547; Mar. 2; Gaz. vol. 212; p. 249.
- Electric motor or generator. H. A. Balcome. No. 1,141,860; June 1; Gaz. vol. 215; p. 269.
- Electric motor, Portable. F. Bisch. No. 1,142,482; June 8; Gaz. vol. 215; p. 528.
- Electric motor, Reversible. F. M. Spencer, G. W. Warnholz, and W. J. Wigmore. No. 1,149,601; Aug. 10; Gaz. vol. 217; p. 499.
- Electric needle. G. H. Murphy. No. 1,127,665; Feb. 9; Gaz. vol. 211; p. 388.
- Electric oscillations, Apparatus for receiving and strengthening. J. Schiessler. No. 1,165,454; Dec. 28; Gaz. vol. 221; p. 1075.
- Electric oscillations, Apparatus for the transmission of energy by. R. A. Fessenden. No. 1,156,677; Oct. 12; Gaz. vol. 219; p. 497.
- Electric oscillators, Magnetic lift for electrodes in. A. H. Cohen. No. 1,142,496; June 8; Gaz. vol. 215; p. 534.
- Electric permutation-switch mechanism. O. D. Bowers. No. 1,157,923; Oct. 26; Gaz. vol. 219; p. 1026.
- Electric plant, Portable self-contained. W. H. Palmer, Jr. No. 1,134,222; Apr. 6; Gaz. vol. 213; p. 51.
- Electric plate-condenser. G. Seibt. No. 1,155,448; Oct. 5; Gaz. vol. 219; p. 43.
- Electric power plant. H. F. Waters. No. 1,125,783; Jan. 19; Gaz. vol. 210; p. 992.
- Electric-power-transmission pole. G. D. Cangia. No. 1,139,487; May 18; Gaz. vol. 214; p. 695.

Alphabetical list of inventions—Continued.

- Electric protective system. E. G. Waters. No. 1,152,362; Aug. 31; Gaz. vol. 217; p. 1628.
- Electric pull-switch. C. A. Billee. No. 1,132,154; Mar. 16; Gaz. vol. 212; p. 878.
- Electric pulsations. Device for producing. J. F. Kelly. No. 1,134,137; Apr. 6; Gaz. vol. 213; p. 19.
- Electric regenerative motor and system of control. R. Lundell. No. 1,127,464; Feb. 9; Gaz. vol. 211; p. 321.
- Electric regulation. J. L. Creveling. No. 1,123,251; Jan. 5; Gaz. vol. 210; p. 17.
- Electric regulation. J. L. Creveling. No. 1,125,267; Jan. 19; Gaz. vol. 210; p. 808.
- Electric regulation. J. L. Creveling. No. 1,126,620; Jan. 26; Gaz. vol. 210; p. 1326.
- Electric regulation. J. L. Creveling. No. 1,137,121; Apr. 27; Gaz. vol. 213; p. 1198.
- Electric regulation. J. L. Creveling. No. 1,138,632; May 11; Gaz. vol. 214; p. 356.
- Electric regulation. J. L. Creveling. No. 1,144,299; June 22; Gaz. vol. 215; p. 1225.
- Electric regulation. J. L. Creveling. No. 1,147,005; July 20; Gaz. vol. 216; p. 751.
- Electric regulation. J. L. Creveling. No. 1,155,643; Oct. 5; Gaz. vol. 219; p. 110.
- Electric regulation. J. L. Creveling. No. 1,162,459; Nov. 30; Gaz. vol. 220; p. 1600.
- Electric regulation. J. L. Creveling. No. 1,162,460; Nov. 30; Gaz. vol. 220; p. 1601.
- Electric regulation. J. L. Creveling. No. 1,165,075; Dec. 21; Gaz. vol. 221; p. 903.
- Electric regulator. J. L. Creveling. No. 1,162,458; Nov. 30; Gaz. vol. 220; p. 1600.
- Electric regulator. G. S. Neeley. No. 1,157,955; Oct. 26; Gaz. vol. 219; p. 1037.
- Electric regulator. F. E. Ricketts. No. 1,125,717; Jan. 19; Gaz. vol. 210; p. 969.
- Electric regulator. F. E. Ricketts. No. 1,146,954; July 20; Gaz. vol. 216; p. 733.
- Electric regulator. F. E. Ricketts. No. 1,146,955; July 20; Gaz. vol. 216; p. 733.
- Electric regulator. F. E. Ricketts. No. 1,146,956; July 20; Gaz. vol. 216; p. 733.
- Electric regulator, Automatic. E. B. H. Tower, Jr. No. 1,154,945; Sept. 28; Gaz. vol. 218; p. 1001.
- Electric regulator, Fluid-controlled. E. V. Anderson. No. 1,164,159; Dec. 14; Gaz. vol. 221; p. 543.
- Electric relay. H. A. Parrish. No. 1,161,073; Nov. 23; Gaz. vol. 220; p. 1068.
- Electric relay system. J. Bergman. No. 1,129,541; Feb. 23; Gaz. vol. 211; p. 1132.
- Electric relays, Electrical connection for. C. Stille. No. 1,160,547; Nov. 16; Gaz. vol. 220; p. 837.
- Electric-resistance device and means for regulating the same. G. E. Bernecker. No. 1,123,225; Jan. 5; Gaz. vol. 210; p. 8.
- Electric-resistance element. H. W. Denhard. No. 1,143,574; June 15; Gaz. vol. 215; p. 947.
- Electric-resistance element. H. W. Denhard. No. 1,143,575; June 15; Gaz. vol. 215; p. 948.
- Electric-resistance element. J. R. Quain. No. 1,146,518; July 13; Gaz. vol. 216; p. 562.
- Electric-resistance unit. H. W. Denhard. No. 1,143,576; June 15; Gaz. vol. 215; p. 948.
- Electric-resistance unit. H. W. Denhard. No. 1,143,577; June 15; Gaz. vol. 215; p. 949.
- Electric safety appliance. C. A. Benedict. No. 1,125,936; Jan. 26; Gaz. vol. 210; p. 1076.
- Electric safety device. T. J. Tobin. No. 1,159,294; Nov. 2; Gaz. vol. 220; p. 308.
- Electric security device. C. Stille. No. 1,159,128; Nov. 2; Gaz. vol. 220; p. 248.
- Electric-service cut-out. R. C. Cole. No. 1,158,896; Nov. 2; Gaz. vol. 220; p. 171.
- Electric-service pipes or conduits, Entrance-fitting or pipe-cap for. W. D. Woodley. No. 1,146,118; July 13; Gaz. vol. 216; p. 419.
- Electric signal. J. Lièvre. No. 1,141,127; June 1; Gaz. vol. 215; p. 13.
- Electric signal. C. H. Light. No. 1,157,990; Oct. 26; Gaz. vol. 219; p. 1049.
- Electric signal. C. M. Saeger. No. 1,142,912; June 15; Gaz. vol. 215; p. 715.
- Electric signal and train control. E. W. Conkell. No. 1,141,936; June 8; Gaz. vol. 215; p. 835.
- Electric snap-switch. M. Guett. No. 1,163,084; Dec. 7; Gaz. vol. 221; p. 122.
- Electric snap-switch. H. H. Hansen. No. 1,126,455; Jan. 26; Gaz. vol. 210; p. 1265.
- Electric snap-switch. J. Zakrzewski and J. Karasinski. No. 1,154,473; Sept. 21; Gaz. vol. 218; p. 813.
- Electric socket. F. M. Rosenfeld. No. 1,157,181; Oct. 19; Gaz. vol. 219; p. 704.
- Electric socket and shade-holder. G. P. Knapp. No. 1,138,297; May 4; Gaz. vol. 214; p. 201.
- Electric-socket shells, Snap-lock for. T. A. C. Both. No. 1,143,937; June 22; Gaz. vol. 215; p. 1096.
- Electric spark-gap. H. Boas. No. 1,152,272; Aug. 31; Gaz. vol. 217; p. 1594.
- Electric spark-gap. F. G. Simpson. No. 1,163,568; Dec. 7; Gaz. vol. 221; p. 291.
- Electric stations provided with accumulators. Sectioning means for. E. Brandenburg. No. 1,137,046; Apr. 27; Gaz. vol. 213; p. 1169.
- Electric switch. C. E. Anderson. No. 1,164,446; Dec. 14; Gaz. vol. 221; p. 644.
- Electric switch. T. E. Barnum. No. 1,149,325; Aug. 10; Gaz. vol. 217; p. 402.
- Electric switch. F. Barr. No. 1,158,426; Nov. 2; Gaz. vol. 220; p. 4.
- Electric switch. F. Barr. No. 1,158,427; Nov. 2; Gaz. vol. 220; p. 5.
- Electric switch. C. A. Bates. No. 1,127,379; Feb. 2; Gaz. vol. 211; p. 249.
- Electric switch. G. Breed. No. 1,164,984; Dec. 21; Gaz. vol. 221; p. 873.
- Electric switch. P. D. Bucknum. No. 1,126,951; Feb. 2; Gaz. vol. 211; p. 100.
- Electric switch. C. Carson. No. 1,151,162; Aug. 24; Gaz. vol. 217; p. 1168.
- Electric switch. R. C. Cole. No. 1,127,408; Feb. 9; Gaz. vol. 211; p. 300.
- Electric switch. R. C. Cole. No. 1,159,361; Nov. 9; Gaz. vol. 220; p. 362.
- Electric switch. J. L. Creveling. No. 1,149,735; Aug. 10; Gaz. vol. 217; p. 549.
- Electric switch. W. E. Date. No. 1,145,569; July 6; Gaz. vol. 216; p. 207.
- Electric switch. W. H. Farmer. No. 1,156,282; Oct. 12; Gaz. vol. 219; p. 355.
- Electric switch. D. T. Fisher. No. 1,142,318; June 8; Gaz. vol. 215; p. 469.
- Electric switch. H. G. French. No. 1,156,681; Oct. 12; Gaz. vol. 219; p. 498.
- Electric switch. F. P. Gates. No. 1,134,732; Apr. 3; Gaz. vol. 213; p. 237.
- Electric switch. M. Guett. No. 1,141,460; June 1; Gaz. vol. 215; p. 134.
- Electric switch. J. H. Hall. No. 1,138,212; May 4; Gaz. vol. 214; p. 171.
- Electric switch. G. H. Hart. No. 1,139,278; May 11; Gaz. vol. 214; p. 584.
- Electric switch. E. M. Hewlett. No. 1,155,814; Oct. 5; Gaz. vol. 219; p. 171.
- Electric switch. P. A. Huddleston. No. 1,162,361; Nov. 30; Gaz. vol. 220; p. 1567.
- Electric switch. P. V. Hunter. No. 1,127,996; Feb. 9; Gaz. vol. 211; p. 507.
- Electric switch. E. H. Jacobs. No. 1,144,038; June 22; Gaz. vol. 215; p. 1133.
- Electric switch. F. Kemmerer. No. 1,141,803; June 1; Gaz. vol. 215; p. 251.
- Electric switch. J. A. Keyes. No. 1,166,055; Dec. 28; Gaz. vol. 221; p. 1283.
- Electric switch. C. J. Klein. No. 1,127,779; Feb. 9; Gaz. vol. 211; p. 431.
- Electric switch. C. J. Klein. No. 1,136,240; Apr. 20; Gaz. vol. 213; p. 846.
- Electric switch. C. J. Klein. No. 1,136,680; Apr. 20; Gaz. vol. 213; p. 1002.
- Electric switch. C. J. Klein. No. 1,138,763; May 11; Gaz. vol. 214; p. 403.
- Electric switch. C. J. Klein. No. 1,138,874; May 11; Gaz. vol. 214; p. 444.
- Electric switch. C. J. Klein. No. 1,144,419; June 29; Gaz. vol. 215; p. 1294.
- Electric switch. C. J. Klein. No. 1,149,586; Aug. 10; Gaz. vol. 217; p. 494.
- Electric switch. C. J. Klein. No. 1,154,030; Sept. 21; Gaz. vol. 218; p. 661.
- Electric switch. C. J. Klein. No. 1,157,310; Oct. 19; Gaz. vol. 219; p. 750.
- Electric switch. C. J. Klein. No. 1,158,060; Oct. 26; Gaz. vol. 219; p. 1074.
- Electric switch. C. J. Klein. No. 1,160,620; Nov. 16; Gaz. vol. 220; p. 863.
- Electric switch. C. J. Klein. No. 1,162,076; Nov. 30; Gaz. vol. 220; p. 1468.
- Electric switch. C. J. Klein. No. 1,162,864; Dec. 7; Gaz. vol. 221; p. 46.
- Electric switch. C. J. Klein. No. 1,162,865; Dec. 7; Gaz. vol. 221; p. 46.
- Electric switch. C. J. Klein. No. 1,162,866; Dec. 7; Gaz. vol. 221; p. 47.
- Electric switch. O. M. Knoblock. No. 1,123,758; Jan. 5; Gaz. vol. 210; p. 192.
- Electric switch. L. F. Kries. No. 1,126,788; Feb. 2; Gaz. vol. 211; p. 44.
- Electric switch. M. Levison. No. 1,126,494; Jan. 26; Gaz. vol. 210; p. 1278.
- Electric switch. A. E. G. Maage. No. 1,135,199; Apr. 13; Gaz. vol. 213; p. 441.
- Electric switch. J. F. McElroy. No. 1,160,921; Nov. 16; Gaz. vol. 220; p. 970.
- Electric switch. E. B. Merriam. No. 1,144,047; June 22; Gaz. vol. 215; p. 1136.
- Electric switch. E. B. Merriam. No. 1,156,542; Oct. 12; Gaz. vol. 219; p. 448.
- Electric switch. E. B. Merriam. No. 1,161,716; Nov. 23; Gaz. vol. 220; p. 1295.
- Electric switch. J. F. Monnot. No. 1,155,364; Oct. 5; Gaz. vol. 219; p. 14.

Alphabetical list of inventions—Continued.

- Electric switch. C. D. Platt. No. 1,152,758; Sept. 7; Gaz. vol. 218; p. 138.
- Electric switch. D. E. Robinson. No. 1,129,812; Feb. 23; Gaz. vol. 211; p. 1222.
- Electric switch. H. R. Schultz and F. B. Holt. No. 1,130,204; Mar. 2; Gaz. vol. 212; p. 126.
- Electric switch. J. C. Smith. No. 1,123,413; Jan. 5; Gaz. vol. 210; p. 74.
- Electric switch. H. F. Stratton. No. 1,134,422; Apr. 6; Gaz. vol. 213; p. 123.
- Electric switch. G. A. Tate. No. 1,159,547; Nov. 9; Gaz. vol. 220; p. 428.
- Electric switch. G. B. Thomas. No. 1,136,737; Apr. 20; Gaz. vol. 213; p. 1024.
- Electric switch. G. B. Thomas. No. 1,161,752; Nov. 23; Gaz. vol. 220; p. 1307.
- Electric switch. A. A. Tirrill. No. 1,142,859; June 15; Gaz. vol. 215; p. 696.
- Electric switch. A. A. Tirrill. No. 1,161,361; Nov. 23; Gaz. vol. 220; p. 1174.
- Electric switch. A. A. Tirrill. No. 1,161,362; Nov. 23; Gaz. vol. 220; p. 1174.
- Electric switch. A. J. Tizley. No. 1,162,665; Nov. 30; Gaz. vol. 220; p. 1667.
- Electric switch. L. Weldlich. No. 1,152,580; Sept. 7; Gaz. vol. 218; p. 75.
- Electric switch. A. R. Wittwer. No. 1,165,479; Dec. 28; Gaz. vol. 221; p. 1083.
- Electric switch. C. J. Zigler and W. P. Holden. No. 1,149,315; Aug. 10; Gaz. vol. 217; p. 399.
- Electric switch and controlling mechanism therefor, Progressively-movable. B. G. Dunham. No. 1,164,271; Dec. 14; Gaz. vol. 221; p. 581.
- Electric-switch device and receptacle. C. J. Klein. No. 1,143,206; June 15; Gaz. vol. 215; p. 821.
- Electric-switch devices, Attachment for. C. J. Klein. No. 1,136,239; Apr. 20; Gaz. vol. 213; p. 845.
- Electric switch, fuse, and protector therefor. E. Charpier. No. 1,156,887; Oct. 19; Gaz. vol. 219; p. 599.
- Electric-switch lock. E. M. Fuller. No. 1,145,764; July 6; Gaz. vol. 216; p. 276.
- Electric-switch mechanism. J. B. Lee. No. 1,165,683; Dec. 28; Gaz. vol. 221; p. 1156.
- Electric-switch operator. J. F. Dunn. No. 1,146,485; July 13; Gaz. vol. 216; p. 551.
- Electric switch or contactor. T. E. Barnum. No. 1,156,201; Oct. 12; Gaz. vol. 219; p. 329.
- Electric switch, Quick-break. E. Schwartz. No. 1,149,409; Aug. 10; Gaz. vol. 217; p. 431.
- Electric-switch safety device. F. C. Harris. No. 1,159,668; Nov. 9; Gaz. vol. 220; p. 472.
- Electric switch, Thermostatic. F. Kuhn. No. 1,130,985; Mar. 9; Gaz. vol. 212; p. 432.
- Electric-switch wall case. M. Guett. No. 1,161,046; Nov. 23; Gaz. vol. 220; p. 1060.
- Electric switches, Centering device for. A. C. Smith. No. 1,140,408; May 25; Gaz. vol. 214; p. 1053.
- Electric switches, Time-limit controlling device for. G. A. Burnham. No. 1,140,248; May 18; Gaz. vol. 214; p. 962.
- Electric system. J. L. Creveling. No. 1,143,176; June 15; Gaz. vol. 215; p. 810.
- Electric system, Composite. R. M. Eaton. No. 1,138,739; May 11; Gaz. vol. 214; p. 395.
- Electric system, Composite. A. D. T. Libby. No. 1,137,150; Apr. 27; Gaz. vol. 213; p. 1208.
- Electric system, Composite. A. D. T. Libby. No. 1,137,151; Apr. 27; Gaz. vol. 213; p. 1209.
- Electric system, Composite. A. D. T. Libby. No. 1,137,152; Apr. 27; Gaz. vol. 213; p. 1209.
- Electric system, Composite. A. D. T. Libby. No. 1,139,127; May 11; Gaz. vol. 214; p. 533.
- Electric system, Composite. A. D. T. Libby. No. 1,163,762; Dec. 14; Gaz. vol. 221; p. 406.
- Electric system for vehicles. R. H. Manson. No. 1,131,402; Mar. 9; Gaz. vol. 212; p. 575.
- Electric terminal. E. Weintraub. No. 1,134,788; Apr. 6; Gaz. vol. 213; p. 258.
- Electric terminal, High-tension. A. A. Stupe. No. 1,138,258; May 4; Gaz. vol. 214; p. 187.
- Electric testing instrument. H. Schade. No. 1,144,255; June 22; Gaz. vol. 215; p. 1210.
- Electric time-switch. W. B. Garrett. No. 1,146,151; July 13; Gaz. vol. 216; p. 432.
- Electric time-switch. K. F. Richmond. No. 1,162,516; Nov. 30; Gaz. vol. 220; p. 1620.
- Electric time-switch. J. H. Robertson. No. 1,127,375; Feb. 2; Gaz. vol. 211; p. 247.
- Electric timing device. J. T. Dempster. No. 1,157,300; Oct. 19; Gaz. vol. 219; p. 746.
- Electric train control. L. J. Filitti. No. 1,141,953; June 8; Gaz. vol. 215; p. 340.
- Electric trap. J. Satlover. No. 1,150,835; Aug. 17; Gaz. vol. 217; p. 998.
- Electric trolleyway and a floating passenger-car, Floating. S. C. Menier. No. 1,159,519; Nov. 9; Gaz. vol. 220; p. 419.
- Electric vulcanizer. O. C. Dennis. No. 1,147,847; July 27; Gaz. vol. 216; p. 1072.
- Electric vulcanizer. C. A. Pfanstiehl. No. 1,139,069; May 11; Gaz. vol. 214; p. 513.
- Electric-wave amplifier. H. D. Arnold. No. 1,128,279; Feb. 16; Gaz. vol. 211; p. 657.
- Electric-wave amplifier. E. H. Colpitts. No. 1,128,292; Feb. 16; Gaz. vol. 211; p. 662.
- Electric-wave detector. C. D. Ainsworth. No. 1,145,735; July 6; Gaz. vol. 216; p. 267.
- Electric waves, System for amplifying. E. H. Colpitts. No. 1,129,959; Mar. 2; Gaz. vol. 212; p. 43.
- Electric-wire conduit. E. Mueller and W. R. McKenney. No. 1,165,530; Dec. 28; Gaz. vol. 221; p. 1100.
- Electric-wire conduits, Tool for detaching obstructions from. M. Blumenthal. No. 1,160,829; Nov. 16; Gaz. vol. 220; p. 938.
- Electric-wire-display rack. L. Gray. No. 1,130,591; Mar. 2; Gaz. vol. 212; p. 263.
- Electric-wire terminal. V. C. H. Gibson. No. 1,149,437; Aug. 10; Gaz. vol. 217; p. 442.
- Electric wires, Tool for stripping insulation-covering from. H. D. Cahill. No. 1,153,286; Sept. 14; Gaz. vol. 218; p. 363.
- Electric-wiring fitting. S. R. Frailek. No. 1,150,935; Aug. 24; Gaz. vol. 217; p. 1091.
- Electric work-light. T. F. Butzen and M. W. Kingsley. No. 1,129,846; Mar. 2; Gaz. vol. 212; p. 5.
- Electrical accumulator. C. de Sedneff. No. 1,149,558; Aug. 10; Gaz. vol. 217; p. 484.
- Electrical apparatus. W. S. Hadaway, Jr., and E. E. Rose. No. 1,158,488; Nov. 2; Gaz. vol. 220; p. 27.
- Electrical apparatus. A. Hundt. No. 1,160,716; Nov. 16; Gaz. vol. 220; p. 900.
- Electrical apparatus. F. C. Jamieson. No. 1,151,185; Aug. 24; Gaz. vol. 217; p. 1176.
- Electrical apparatus. J. H. Lehman. No. 1,142,973; June 15; Gaz. vol. 215; p. 738.
- Electrical apparatus, Air-cooled tank for. I. Harter. No. 1,155,656; Oct. 5; Gaz. vol. 219; p. 115.
- Electrical apparatus and circuit. A. L. Sohm. No. 1,138,991; May 11; Gaz. vol. 214; p. 484.
- Electrical apparatus, Assembling cores of. E. R. Knight. No. 1,156,297; Oct. 12; Gaz. vol. 219; p. 361.
- Electrical-apparatus contact. T. A. Edison. No. 1,152,616; Sept. 7; Gaz. vol. 218; p. 87.
- Electrical-apparatus-controlling system. S. K. Thompson. No. 1,144,264; June 22; Gaz. vol. 215; p. 1213.
- Electrical apparatus, Insulating-body for. K. C. Randall, S. W. Farnsworth, and C. L. Fortescue. No. 1,129,520; Feb. 23; Gaz. vol. 211; p. 1124.
- Electrical apparatus, Laminated core for. E. B. Cutten. No. 1,136,942; Apr. 27; Gaz. vol. 213; p. 1132.
- Electrical apparatus, Making. S. Trood. No. 1,150,081; Aug. 17; Gaz. vol. 217; p. 734.
- Electrical apparatus, Terminal. C. L. Fortescue. No. 1,129,467; Feb. 23; Gaz. vol. 211; p. 1107.
- Electrical appliance. R. H. Olley. No. 1,126,842; Feb. 2; Gaz. vol. 211; p. 64.
- Electrical appliances, Automatic current cut-off for. U. S. Smith. No. 1,150,973; Aug. 24; Gaz. vol. 217; p. 1103.
- Electrical battery. W. Hoppie. No. 1,140,826; May 25; Gaz. vol. 214; p. 1199.
- Electrical cable, Multiple-conductor. C. W. Davis. No. 1,132,451; Mar. 16; Gaz. vol. 212; p. 986.
- Electrical-circuit-changing mechanism. A. L. Sohm. No. 1,138,990; May 11; Gaz. vol. 214; p. 484.
- Electrical-circuit regulator. F. Conrad. No. 1,146,926; July 20; Gaz. vol. 216; p. 723.
- Electrical-circuit regulator. F. Conrad. No. 1,146,927; July 20; Gaz. vol. 216; p. 723.
- Electrical circuits, Tube-coupling for. J. H. Jackson. No. 1,148,844; Aug. 3; Gaz. vol. 217; p. 129.
- Electrical coils, Machine for producing. C. R. Underhill. No. 1,160,469; Nov. 16; Gaz. vol. 220; p. 808.
- Electrical conductor. F. H. Pritchard. No. 1,146,348; July 13; Gaz. vol. 216; p. 500.
- Electrical conductor. L. Roebel. No. 1,144,252; June 22; Gaz. vol. 215; p. 1209.
- Electrical-conductor-fastening device. J. Schade, Jr. No. 1,163,371; Dec. 7; Gaz. vol. 221; p. 224.
- Electrical conductors, Binding-post for. C. J. Klein. No. 1,154,583; Sept. 21; Gaz. vol. 218; p. 851.
- Electrical conductors, Connector for. H. E. Denman. No. 1,156,349; Oct. 12; Gaz. vol. 219; p. 379.
- Electrical conductors, Drying and impregnating. D. Hurley and J. E. O'Shea. No. 1,163,342; Dec. 7; Gaz. vol. 221; p. 213.
- Electrical conductors, Fuse-carrying connecting device for. F. N. Wake. No. 1,153,657; Sept. 14; Gaz. vol. 218; p. 495.
- Electrical conductors, Mounting structures for. F. B. Cook. No. 1,161,192; Nov. 23; Gaz. vol. 220; p. 1112.
- Electrical conductors, Separable connector for. C. J. Klein. No. 1,141,121; June 1; Gaz. vol. 215; p. 11.
- Electrical conductors, Separable connector for. C. J. Klein. No. 1,145,424; July 6; Gaz. vol. 216; p. 156.
- Electrical conductors, Terminal clip for. A. Klinger. No. 1,158,930; Nov. 2; Gaz. vol. 220; p. 183.
- Electrical-conduit attachment. A. McMurtrie and L. H. Church. No. 1,128,106; Feb. 9; Gaz. vol. 211; p. 546.
- Electrical conduits, Making pipes for. N. H. Raymond. No. 1,143,916; June 22; Gaz. vol. 215; p. 1088.
- Electrical connecting-socket. J. C. Stearns. No. 1,165,553; Dec. 28; Gaz. vol. 221; p. 1108.

Alphabetical list of inventions—Continued.

- Electrical connection or pigtail. A. S. McDaniel. No. 1,141,069; May 25; Gaz. vol. 214; p. 1283.
- Electrical connector. C. L. Sheppy. No. 1,153,580; Sept. 14; Gaz. vol. 218; p. 470.
- Electrical connector. C. L. Sheppy. No. 1,153,581; Sept. 14; Gaz. vol. 218; p. 471.
- Electrical connector. E. B. Wilcox. No. 1,159,456; Nov. 9; Gaz. vol. 220; p. 398.
- Electrical connector or socket. J. C. Stearns. No. 1,137,295; Apr. 27; Gaz. vol. 213; p. 1262.
- Electrical contact-governor. W. Deats. No. 1,148,295; July 27; Gaz. vol. 216; p. 1230.
- Electrical contact-maker, Synchronous. F. G. Cottrell and H. A. Burns. No. 1,143,175; June 15; Gaz. vol. 215; p. 808.
- Electrical control system. W. N. McComb. No. 1,123,341; Jan. 5; Gaz. vol. 210; p. 50.
- Electrical control system. E. W. Stull. No. 1,160,092; Nov. 9; Gaz. vol. 220; p. 623.
- Electrical controller. F. W. Van Ness. No. 1,153,978; Sept. 21; Gaz. vol. 218; p. 642.
- Electrical controlling apparatus. J. D. Ihlder. No. 1,156,481; Oct. 12; Gaz. vol. 219; p. 428.
- Electrical controlling apparatus. D. L. Lindquist. No. 1,156,415; Oct. 12; Gaz. vol. 219; p. 405.
- Electrical controlling system. E. Tobiesen. No. 1,164,035; Dec. 14; Gaz. vol. 221; p. 501.
- Electrical device. M. Setter. No. 1,161,010; Nov. 16; Gaz. vol. 220; p. 1002.
- Electrical devices, Individual or group cut-outs for. C. and C. Johnston. No. 1,138,222; May 4; Gaz. vol. 214; p. 174.
- Electrical devices, Insulated support for. A. W. Burke. No. 1,162,747; Dec. 7; Gaz. vol. 221; p. 6.
- Electrical discharge apparatus. W. C. White. No. 1,159,307; Nov. 2; Gaz. vol. 220; p. 313.
- Electrical distribution. N. Joleen. No. 1,159,040; Nov. 2; Gaz. vol. 220; p. 217.
- Electrical distribution system. E. F. W. Alexanderson. No. 1,150,652; Aug. 17; Gaz. vol. 217; p. 936.
- Electrical distribution system. F. G. Beetam. No. 1,147,692; July 20; Gaz. vol. 216; p. 991.
- Electrical distribution system. J. Bijur. No. 1,131,316; Mar. 9; Gaz. vol. 212; p. 546.
- Electrical distribution system. F. Castiglioni. No. 1,160,842; Nov. 16; Gaz. vol. 220; p. 942.
- Electrical distribution system. W. H. Cole. No. 1,152,881; Sept. 7; Gaz. vol. 218; p. 184.
- Electrical distribution system. H. P. Davis and F. Conrad. No. 1,138,637; May 11; Gaz. vol. 214; p. 358.
- Electrical distribution system. H. P. Davis and F. Conrad. No. 1,159,904; Nov. 9; Gaz. vol. 220; p. 558.
- Electrical distribution system. J. B. Dyer and G. A. Johnstone. No. 1,150,019; Aug. 17; Gaz. vol. 217; p. 713.
- Electrical distribution system. E. Evans. No. 1,158,037; Oct. 26; Gaz. vol. 219; p. 1066.
- Electrical distribution system. G. R. Fessenden, Jr. No. 1,164,635; Dec. 21; Gaz. vol. 221; p. 750.
- Electrical distribution system. F. W. Harris. No. 1,159,936; Nov. 9; Gaz. vol. 220; p. 570.
- Electrical distribution system. F. W. Harris. No. 1,163,997; Dec. 14; Gaz. vol. 221; p. 487.
- Electrical distribution system. A. S. Hubbard. No. 1,134,837; Apr. 6; Gaz. vol. 213; p. 93.
- Electrical distribution system. A. S. Hubbard. No. 1,160,608; Nov. 16; Gaz. vol. 220; p. 859.
- Electrical distribution system. A. S. Hubbard. No. 1,160,609; Nov. 16; Gaz. vol. 220; p. 859.
- Electrical distribution system. J. W. Jepson. No. 1,134,338; Apr. 6; Gaz. vol. 213; p. 93.
- Electrical distribution system. J. W. Jepson. No. 1,160,289; Nov. 16; Gaz. vol. 220; p. 745.
- Electrical distribution system. J. L. Johnson. No. 1,132,478; Mar. 16; Gaz. vol. 212; p. 996.
- Electrical distribution system. G. S. Neeley. No. 1,160,749; Nov. 16; Gaz. vol. 220; p. 911.
- Electrical distribution system. K. C. Randall. No. 1,164,015; Dec. 14; Gaz. vol. 221; p. 493.
- Electrical distribution system. G. B. Schley. No. 1,133,187; Mar. 23; Gaz. vol. 212; p. 1305.
- Electrical distribution system. P. H. Thomas. No. 1,137,174; Apr. 27; Gaz. vol. 213; p. 1216.
- Electrical distribution system. W. A. Turbayne. No. 1,123,626; Jan. 5; Gaz. vol. 210; p. 147.
- Electrical distribution system. W. A. Turbayne. No. 1,131,174; Mar. 9; Gaz. vol. 212; p. 496.
- Electrical distribution system. W. A. Turbayne. No. 1,141,506; June 1; Gaz. vol. 215; p. 150.
- Electrical distribution system. W. A. Turbayne. No. 1,160,344; Nov. 16; Gaz. vol. 220; p. 765.
- Electrical distribution system. W. A. Turbayne. No. 1,163,960; Dec. 14; Gaz. vol. 221; p. 474.
- Electrical distribution system. E. Van Wagenen. No. 1,145,339; July 6; Gaz. vol. 216; p. 126.
- Electrical distribution system. J. L. Woodbridge. No. 1,147,696; July 20; Gaz. vol. 216; p. 992.
- Electrical distribution system. F. A. Zika. No. 1,133,525; Mar. 30; Gaz. vol. 212; p. 1460.
- Electrical distribution system and circuit control. F. W. Harris. No. 1,123,283; Jan. 5; Gaz. vol. 210; p. 27.
- Electrical distribution systems, Protecting means for. G. A. Burnham. No. 1,165,844; Dec. 28; Gaz. vol. 221; p. 1210.
- Electrical driving system. H. C. Leake. No. 1,138,299; May 4; Gaz. vol. 214; p. 202.
- Electrical energy, Apparatus for the transmission and receipt of. R. A. Fessenden. No. 1,141,453; June 1; Gaz. vol. 215; p. 131.
- Electrical energy, Transmitting and receiving. R. A. Fessenden. No. 1,141,386; June 1; Gaz. vol. 215; p. 108.
- Electrical fitting. W. F. Anklaam. No. 1,161,582; Nov. 23; Gaz. vol. 220; p. 1250.
- Electrical fitting. R. W. Davenport. No. 1,145,057; July 6; Gaz. vol. 216; p. 30.
- Electrical fitting. J. C. Stearns. No. 1,144,949; June 29; Gaz. vol. 215; p. 1475.
- Electrical-fixture fitting. F. J. Smith. No. 1,129,024; Feb. 16; Gaz. vol. 211; p. 915.
- Electrical fixtures and their attachment to conduits. C. W. Abbott and H. R. Gilson. No. 1,127,333; Feb. 9; Gaz. vol. 211; p. 291.
- Electrical fixtures to outlet-boxes, Attachment of. H. R. Gilson and J. M. G. Fullman. No. 1,155,350; Oct. 5; Gaz. vol. 219; p. 9.
- Electrical furnace. W. H. Hampton. No. 1,147,165; July 20; Gaz. vol. 216; p. 806.
- Electrical furnace. W. H. Hampton. No. 1,152,505; Sept. 7; Gaz. vol. 218; p. 45.
- Electrical generator, Magneto. A. L. Helzer. No. 1,135,898; Apr. 13; Gaz. vol. 213; p. 685.
- Electrical heater. F. E. Carlson. No. 1,129,381; Feb. 23; Gaz. vol. 211; p. 1075.
- Electrical heater. F. G. Cook. No. 1,134,995; Apr. 13; Gaz. vol. 213; p. 370.
- Electrical heater. E. D. Johnson and G. A. Cathey. No. 1,124,910; Jan. 12; Gaz. vol. 210; p. 644.
- Electrical heater. F. T. Klitchen. No. 1,147,952; July 27; Gaz. vol. 216; p. 1109.
- Electrical heater. F. Kuhn. No. 1,130,987; Mar. 9; Gaz. vol. 212; p. 433.
- Electrical heater. F. Kuhn. No. 1,154,417; Sept. 21; Gaz. vol. 218; p. 794.
- Electrical heater. F. Kuhn and F. E. Shallor. No. 1,154,412; Sept. 21; Gaz. vol. 218; p. 792.
- Electrical heater. A. S. Mack. No. 1,141,197; June 1; Gaz. vol. 215; p. 38.
- Electrical heater. A. W. Mansbridge. No. 1,155,593; Oct. 5; Gaz. vol. 219; p. 93.
- Electrical heater for liquids. U. Wedge. No. 1,154,356; Sept. 21; Gaz. vol. 218; p. 773.
- Electrical heating unit. R. W. Davenport. No. 1,147,789; July 27; Gaz. vol. 216; p. 1050.
- Electrical heating unit. F. Kuhn and F. E. Shallor. No. 1,154,409; Sept. 21; Gaz. vol. 218; p. 791.
- Electrical heating units, Embedding material for. S. P. Wilbur. No. 1,125,615; Jan. 19; Gaz. vol. 210; p. 930.
- Electrical heating units, Embedding material for. S. P. Wilbur. No. 1,125,616; Jan. 19; Gaz. vol. 210; p. 930.
- Electrical hot-plate. R. W. Davenport. No. 1,158,451; Nov. 2; Gaz. vol. 220; p. 14.
- Electrical ignition apparatus. E. C. Wilcox. No. 1,138,522; May 4; Gaz. vol. 214; p. 280.
- Electrical ignition device. G. Honold. No. 1,165,601; Dec. 28; Gaz. vol. 221; p. 1126.
- Electrical ignition systems, Mechanical interrupter for. G. Honold. No. 1,154,311; Sept. 21; Gaz. vol. 218; p. 757.
- Electrical-impulse transmitter. W. Aitken. No. 1,150,007; Aug. 17; Gaz. vol. 217; p. 709.
- Electrical impulses, Amplifying. R. A. Fessenden. No. 1,154,750; Sept. 28; Gaz. vol. 218; p. 936.
- Electrical impulses, Means for strengthening weak. W. Schloemilch and A. Leib. No. 1,163,180; Dec. 7; Gaz. vol. 221; p. 156.
- Electrical impulses or oscillations, Method of and apparatus for. R. H. Goddard. No. 1,159,209; Nov. 2; Gaz. vol. 220; p. 278.
- Electrical indicating and regulating apparatus. V. G. Apple and G. B. Sayre. No. 1,158,954; Nov. 2; Gaz. vol. 220; p. 190.
- Electrical indicator. R. S. Smith, Jr. No. 1,152,986; Sept. 7; Gaz. vol. 218; p. 223.
- Electrical indicator for mail-boxes. R. Stegemann and A. Johannes. No. 1,124,352; Jan. 12; Gaz. vol. 210; p. 445.
- Electrical instrument. G. W. W. Cornman. No. 1,166,410; Dec. 28; Gaz. vol. 221; p. 1415.
- Electrical instruments, Connector-plug for. F. E. Shallor. No. 1,130,935; Mar. 9; Gaz. vol. 212; p. 415.
- Electrical machine. J. E. Seeley. No. 1,157,592; Oct. 19; Gaz. vol. 219; p. 845.
- Electrical machines, Apparatus for driving. A. Schalkau. No. 1,160,771; Nov. 16; Gaz. vol. 220; p. 918.
- Electrical machines, Brush or collector for. E. Gindre. No. 1,138,746; May 11; Gaz. vol. 214; p. 398.
- Electrical machines mounted on vessels, Cooling device for. H. Weiss. No. 1,156,829; Oct. 12; Gaz. vol. 219; p. 549.
- Electrical meter. H. Tolle. No. 1,155,384; Oct. 5; Gaz. vol. 219; p. 20.

Alphabetical list of inventions—Continued.

- Electrical oscillator. F. K. Vreeland. No. 1,152,675; Sept. 7; Gaz. vol. 218; p. 109.
- Electrical oscillatory circuits, Self-inductive means for. G. von Arco and R. H. Rendahl. No. 1,131,187; Mar. 9; Gaz. vol. 212; p. 500.
- Electrical oscillatory circuits, Self-inductive means for. G. von Arco and R. H. Rendahl. No. 1,148,279; July 27; Gaz. vol. 216; p. 1226.
- Electrical plug and receptacle. W. R. Kelting. No. 1,137,634; Apr. 27; Gaz. vol. 213; p. 1379.
- Electrical protective device. H. W. Brown. No. 1,159,892; Nov. 9; Gaz. vol. 220; p. 554.
- Electrical protective device. A. J. Loguin. No. 1,161,320; Nov. 23; Gaz. vol. 220; p. 1158.
- Electrical push-button. C. A. Franck. No. 1,143,264; June 15; Gaz. vol. 215; p. 840.
- Electrical receiving apparatus. T. B. Booth. No. 1,139,632; May 18; Gaz. vol. 214; p. 745.
- Electrical receptacle. G. B. Thomas. No. 1,145,717; July 6; Gaz. vol. 216; p. 261.
- Electrical recorder. M. E. Leeds. No. 1,125,699; Jan. 19; Gaz. vol. 210; p. 962.
- Electrical recording apparatus. A. L. Sohm. No. 1,132,884; Mar. 23; Gaz. vol. 212; p. 1194.
- Electrical regulating device. R. E. Sagie. No. 1,152,913; Sept. 7; Gaz. vol. 218; p. 196.
- Electrical regulation. W. and J. A. Snee, Jr. No. 1,131,434; Mar. 9; Gaz. vol. 212; p. 586.
- Electrical regulation system. W. A. Turbayne. No. 1,131,175; Mar. 9; Gaz. vol. 212; p. 496.
- Electrical regulator. F. Conrad. No. 1,146,925; July 20; Gaz. vol. 216; p. 722.
- Electrical regulator. O. S. Schairer. No. 1,147,686; July 20; Gaz. vol. 216; p. 989.
- Electrical regulator. O. S. Schairer. No. 1,147,687; July 20; Gaz. vol. 216; p. 990.
- Electrical regulator. O. S. Schairer. No. 1,147,688; July 20; Gaz. vol. 216; p. 990.
- Electrical regulator. A. A. Tirrill. No. 1,147,570; July 20; Gaz. vol. 216; p. 948.
- Electrical regulator. A. A. Tirrill. No. 1,147,571; July 20; Gaz. vol. 216; p. 948.
- Electrical regulator. A. A. Tirrill. No. 1,147,572; July 20; Gaz. vol. 216; p. 949.
- Electrical regulator. A. A. Tirrill. No. 1,147,573; July 20; Gaz. vol. 216; p. 949.
- Electrical regulator. A. A. Tirrill. No. 1,147,574; July 20; Gaz. vol. 216; p. 949.
- Electrical regulator. A. A. Tirrill. No. 1,147,575; July 20; Gaz. vol. 216; p. 950.
- Electrical regulator. A. A. Tirrill. No. 1,147,576; July 20; Gaz. vol. 216; p. 950.
- Electrical resistance. C. O. Bastian. No. 1,160,488; Nov. 16; Gaz. vol. 220; p. 816.
- Electrical resistance. C. E. Hay and H. W. Sullivan. No. 1,155,058; Sept. 28; Gaz. vol. 218; p. 1040.
- Electrical resistance device. A. Simon. No. 1,158,572; Nov. 2; Gaz. vol. 220; p. 58.
- Electrical selective mechanism. A. H. F. Schaar. No. 1,159,714; Nov. 9; Gaz. vol. 220; p. 489.
- Electrical signal. G. C. Murphy. No. 1,133,307; Mar. 30; Gaz. vol. 212; p. 1381.
- Electrical switch. J. L. Adams, Jr. No. 1,162,541; Nov. 30; Gaz. vol. 220; p. 1629.
- Electrical switch. B. D. Horton. No. 1,127,442; Feb. 9; Gaz. vol. 211; p. 313.
- Electrical switch. B. D. Horton. No. 1,129,568; Feb. 23; Gaz. vol. 211; p. 1142.
- Electrical switch. B. D. Horton. No. 1,129,569; Feb. 23; Gaz. vol. 211; p. 1142.
- Electrical switch. A. A. Tirrill. No. 1,158,749; Nov. 2; Gaz. vol. 220; p. 118.
- Electrical switch. O. S. Walker and I. F. Williams. No. 1,162,831; Dec. 7; Gaz. vol. 221; p. 35.
- Electrical switch and clutch-actuating mechanism, Combination. E. V. Hartford. No. 1,146,872; July 20; Gaz. vol. 216; p. 703.
- Electrical switch, Automatic. W. H. Hill. No. 1,134,534; Apr. 6; Gaz. vol. 213; p. 164.
- Electrical switching systems, Controlling apparatus for. J. N. Reynolds. No. 1,162,514; Nov. 30; Gaz. vol. 220; p. 1620.
- Electrical system. G. W. Hallock. No. 1,143,191; June 15; Gaz. vol. 215; p. 815.
- Electrical-system-protecting means. F. Conrad. No. 1,155,134; Sept. 28; Gaz. vol. 218; p. 1069.
- Electrical-system protective means. F. Conrad. No. 1,155,133; Sept. 28; Gaz. vol. 218; p. 1068.
- Electrical terminals, Connection for. A. C. Taylor. No. 1,163,703; Dec. 14; Gaz. vol. 221; p. 384.
- Electrical testing apparatus. H. J. Blakeslee. No. 1,159,354; Nov. 9; Gaz. vol. 220; p. 360.
- Electrical transmission system. R. A. Engler. No. 1,134,983; Apr. 6; Gaz. vol. 213; p. 322.
- Electrical transmitting and receiving apparatus, Step-by-step. A. Barr, W. Stroud, and J. W. French. No. 1,147,359; July 20; Gaz. vol. 216; p. 873.
- Electrical variations, Apparatus for amplifying or detecting. G. W. Pierce. No. 1,127,371; Feb. 2; Gaz. vol. 211; p. 245.
- Electrical variations, Method of and apparatus for transmitting. P. C. Hewitt. No. 1,144,596; June 29; Gaz. vol. 215; p. 1354.
- Electrical-wire-regulating apparatus. H. S. Cassel. No. 1,164,920; Dec. 21; Gaz. vol. 221; p. 850.
- Electrical wiring system. W. J. Kistler. No. 1,132,355; Mar. 16; Gaz. vol. 212; p. 952.
- Electrically actuating apparatus at a distance from a central station, Installation permitting of. E. Schneider. No. 1,141,363; June 1; Gaz. vol. 215; p. 98.
- Electrically-charged particles, Method of and means for producing. R. H. Goddard. No. 1,137,964; May 4; Gaz. vol. 214; p. 85.
- Electrically-controlled lock. L. Cadenel. No. 1,165,943; Dec. 23; Gaz. vol. 221; p. 1245.
- Electrically-energized heater. O. B. Brush. No. 1,124,849; Jan. 12; Gaz. vol. 210; p. 623.
- Electrically-heated apparatus. O. A. Colby. No. 1,146,310; July 13; Gaz. vol. 216; p. 486.
- Electrically-heated apparatus. T. Hooock. No. 1,146,164; July 13; Gaz. vol. 216; p. 437.
- Electrically-heated apparatus. T. Hooock. No. 1,146,328; July 13; Gaz. vol. 216; p. 493.
- Electrically-heated apparatus. T. Hooock. No. 1,146,329; July 13; Gaz. vol. 216; p. 494.
- Electrically-heated apparatus. T. Hooock. No. 1,146,330; July 13; Gaz. vol. 216; p. 494.
- Electrically-heated apparatus. T. Hooock. No. 1,146,623; July 13; Gaz. vol. 216; p. 598.
- Electrically-heated appliance. A. J. Block. No. 1,142,769; June 8; Gaz. vol. 215; p. 626.
- Electrically-heated boiler. W. S. Hadaway, Jr., and E. E. Rose. No. 1,158,486; Nov. 2; Gaz. vol. 220; p. 26.
- Electrically-heated devices, Automatic cut-off for. H. W. Denhard. No. 1,143,573; June 15; Gaz. vol. 215; p. 947.
- Electrically-heated implement. E. E. Rose. No. 1,158,557; Nov. 2; Gaz. vol. 220; p. 53.
- Electrically-heated instruments, Connector for. F. Kuhn and F. E. Shalor. No. 1,154,413; Sept. 21; Gaz. vol. 218; p. 792.
- Electrically-heated instruments, Handle and terminal connection for. F. Kuhn and F. E. Shalor. No. 1,154,415; Sept. 21; Gaz. vol. 218; p. 793.
- Electrically-operated device. F. Conrad. No. 1,158,898; Nov. 2; Gaz. vol. 220; p. 171.
- Electrically-operated mechanisms and the like, Means for controlling. H. H. R. Green. No. 1,130,161; Mar. 2; Gaz. vol. 212; p. 111.
- Electrically-operated switch. W. O. Lum. No. 1,138,677; May 11; Gaz. vol. 214; p. 372.
- Electrically transmitting indications, Electrical instrument for. M. Durr. No. 1,146,486; July 13; Gaz. vol. 216; p. 551.
- Electrically transmitting signs, System of. H. Hoffmann. No. 1,142,572; June 8; Gaz. vol. 215; p. 559.
- Electrically uniting metallic members. L. S. Lachman. No. 1,133,806; Mar. 30; Gaz. vol. 212; p. 1562.
- Electricity-meter. G. A. Scheeffer. No. 1,137,027; Apr. 27; Gaz. vol. 213; p. 1163.
- Electricity-meter. R. Ziegenberg. No. 1,156,964; Oct. 19; Gaz. vol. 219; p. 626.
- Electricity-meter, Integrating. C. I. Hall. No. 1,125,312; Jan. 19; Gaz. vol. 210; p. 823.
- Electricity-meter, Variable-rate integrating. V. Karapetoff. No. 1,146,172; July 13; Gaz. vol. 216; p. 439.
- Electricity, Method and apparatus for generating. D. F. Comstock. No. 1,128,229; Feb. 9; Gaz. vol. 211; p. 588.
- Electro-optical cell. C. Stille. No. 1,148,936; Aug. 3; Gaz. vol. 217; p. 160.
- Electro-osmotic processes, Apparatus for. H. Illig and B. Schwerin. No. 1,133,967; Mar. 30; Gaz. vol. 212; p. 1614.
- Electrocalculograph. J. Bricken. No. 1,157,079; Oct. 19; Gaz. vol. 219; p. 667.
- Electrocardiographs, oscillographs, &c., Apparatus for checking. G. Mylo. No. 1,151,118; Aug. 24; Gaz. vol. 217; p. 1152.
- Electrochemical controlling apparatus. W. J. Pike and R. J. Sutton. No. 1,145,509; July 6; Gaz. vol. 216; p. 186.
- Electrochemical process of treating waters, liquids, and sewage. C. P. Landreth. No. 1,139,778; May 18; Gaz. vol. 214; p. 797.
- Electrocuting device. J. T. Adams. No. 1,165,485; Dec. 28; Gaz. vol. 221; p. 1086.
- Electrode. C. R. Krueger. No. 1,156,696; Oct. 12; Gaz. vol. 219; p. 503.
- Electrode. C. E. Osmer and J. B. Roach. No. 1,127,499; Feb. 9; Gaz. vol. 211; p. 334.
- Electrode. W. H. Rowley. No. 1,156,315; Oct. 12; Gaz. vol. 219; p. 367.
- Electrode-adjusting means. D. E. Carpenter. No. 1,162,031; Nov. 30; Gaz. vol. 220; p. 1452.
- Electrode and forming the same, Discharging. F. W. Steere. No. 1,130,215; Mar. 2; Gaz. vol. 212; p. 130.
- Electrode and making the same, Negative. W. Tassin. No. 1,129,918; Feb. 23; Gaz. vol. 211; p. 1224.
- Electrode and operating same, Vacuum-tube. W. D. Coolidge. No. 1,157,925; Oct. 26; Gaz. vol. 219; p. 1026.
- Electrode, Arc-lamp. A. T. Baldwin. No. 1,127,578; Feb. 9; Gaz. vol. 211; p. 359.

Alphabetical list of inventions—Continued.

- Electrode, Arc-lamp. C. Field, 3d. No. 1,158,997; Nov. 2; Gaz. vol. 220; p. 204.
- Electrode, Arc-lamp. G. M. Little. No. 1,159,511; Nov. 9; Gaz. vol. 220; p. 417.
- Electrode, Arc-lamp. G. M. Little and B. J. Gudge. No. 1,158,516; Nov. 2; Gaz. vol. 220; p. 38.
- Electrode, Arc-lamp. W. R. Mott. No. 1,148,183; July 27; Gaz. vol. 216; p. 1193.
- Electrode, Arc-lamp. E. J. Watzl. No. 1,161,173; Nov. 23; Gaz. vol. 220; p. 1105.
- Electrode, Arc-light. I. Ladoff. No. 1,164,728; Dec. 21; Gaz. vol. 221; p. 782.
- Electrode, Arc-light. W. R. Mott. No. 1,134,148; Apr. 6; Gaz. vol. 213; p. 23.
- Electrode, Arc-light. W. R. Mott. No. 1,147,422; July 20; Gaz. vol. 216; p. 897.
- Electrode, Battery-. C. B. Schoenmehl. No. 1,140,403; May 25; Gaz. vol. 214; p. 1052.
- Electrode-cooling system. L. M. Aspinwall. No. 1,159,884; Nov. 9; Gaz. vol. 220; p. 551.
- Electrode-cooling system. D. C. Davis. No. 1,159,903; Nov. 9; Gaz. vol. 220; p. 558.
- Electrode, Drawn. W. G. Abbott, Jr. No. 1,157,280; Oct. 19; Gaz. vol. 219; p. 740.
- Electrode for arc-lights. C. W. Hill. No. 1,154,393; Sept. 21; Gaz. vol. 218; p. 786.
- Electrode for arc-lamps. G. M. Little. No. 1,148,696; Aug. 3; Gaz. vol. 217; p. 77.
- Electrode for electrolytic cells. J. B. Burdett. No. 1,154,092; Sept. 21; Gaz. vol. 218; p. 683.
- Electrode for projection apparatus. M. H. Moffett. No. 1,165,619; Dec. 28; Gaz. vol. 221; p. 1133.
- Electrode for spark-plugs, Pendulum-. T. De Roode. No. 1,162,850; Dec. 7; Gaz. vol. 221; p. 41.
- Electrode for vapor electric apparatus. C. A. Kraus and R. D. Mailey. No. 1,147,026; July 20; Gaz. vol. 216; p. 758.
- Electrode for vapor electric apparatus, Starting-. S. W. Farnsworth. D. E. Carpenter and L. E. Frost. No. 1,159,914; Nov. 9; Gaz. vol. 220; p. 563.
- Electrode for vapor electric devices, Starting-. S. W. Farnsworth and O. P. Schuster. No. 1,159,915; Nov. 9; Gaz. vol. 220; p. 563.
- Electrode-holder. J. R. Pratt. No. 1,166,256; Dec. 28; Gaz. vol. 221; p. 1361.
- Electrode-shield for vapor electric apparatus. S. W. Farnsworth. D. E. Carpenter, L. E. Frost, D. H. Rose, and E. F. Sipher. No. 1,159,916; Nov. 9; Gaz. vol. 220; p. 564.
- Electrode, Therapeutical. R. H. Wappler. No. 1,146,292; July 13; Gaz. vol. 216; p. 480.
- Electrodes for accumulators, Producing perforated tubular. J. Krannishfeldt. No. 1,127,025; Feb. 2; Gaz. vol. 211; p. 128.
- Electrodes in arc-furnaces, Method and apparatus for protecting the. J. I. Bronn and W. Schemmann. No. 1,129,377; Feb. 23; Gaz. vol. 211; p. 1074.
- Electrodes, Making. W. H. Rowley. No. 1,156,316; Oct. 12; Gaz. vol. 219; p. 367.
- Electrodes, Metal coating for arc-light. B. Perris. No. 1,148,189; July 27; Gaz. vol. 216; p. 1194.
- Electrodes, Molding. G. Favier. No. 1,150,021; Aug. 17; Gaz. vol. 217; p. 714.
- Electrodes, Preparing arc-lamp. G. M. Little and B. J. Gudge. No. 1,138,674; May 11; Gaz. vol. 214; p. 371.
- Electrolier. R. B. Benjamin. No. 1,158,113; Oct. 26; Gaz. vol. 219; p. 1093.
- Electrolier and telephone-cover, Combined. J. McIntosh. No. 1,153,507; Sept. 14; Gaz. vol. 218; p. 444.
- Electrolysis. C. A. Hall. No. 1,163,911; Dec. 14; Gaz. vol. 221; p. 456.
- Electrolysis, Anode for. N. V. Hybinette. No. 1,128,316; Feb. 16; Gaz. vol. 211; p. 669.
- Electrolysis, Circulating solution for. N. V. Hybinette. No. 1,128,315; Feb. 16; Gaz. vol. 211; p. 669.
- Electrolysis, Method of. H. R. Nelson. No. 1,149,211; Aug. 10; Gaz. vol. 217; p. 360.
- Electrolyte. R. Hurley. No. 1,138,221; May 4; Gaz. vol. 214; p. 174.
- Electrolyte for the production of alkali and alkaline-earth metals. C. E. Acker. No. 1,142,220; June 8; Gaz. vol. 215; p. 435.
- Electrolyte, Means for circulating. W. L. Bliss. No. 1,160,133; Nov. 16; Gaz. vol. 220; p. 692.
- Electrolytes, Regenerating. O. C. Martin and F. Jaeger. No. 1,148,522; Aug. 3; Gaz. vol. 217; p. 13.
- Electrolytic apparatus. J. B. Burdett. No. 1,154,091; Sept. 21; Gaz. vol. 218; p. 682.
- Electrolytic apparatus. W. E. Greenawalt. No. 1,144,538; June 29; Gaz. vol. 215; p. 1334.
- Electrolytic apparatus. I. H. Levin. No. 1,153,168; Sept. 7; Gaz. vol. 218; p. 282.
- Electrolytic apparatus. C. A. Parks. No. 1,131,859; Mar. 16; Gaz. vol. 212; p. 772.
- Electrolytic apparatus employing filmed electrodes. R. D. Mershon. No. 1,141,402; June 1; Gaz. vol. 215; p. 113.
- Electrolytic cell. E. A. and H. I. Allen. No. 1,148,274; July 27; Gaz. vol. 216; p. 1224.
- Electrolytic cell. H. C. Jenkins. No. 1,150,370; Aug. 17; Gaz. vol. 217; p. 837.
- Electrolytic cell. H. R. Nelson. No. 1,149,210; Aug. 10; Gaz. vol. 217; p. 359.
- Electrolytic cell. E. E. Norquist. No. 1,153,438; Sept. 14; Gaz. vol. 218; p. 419.
- Electrolytic cell and maintaining the efficiency thereof. W. M. Jewell. No. 1,145,593; July 6; Gaz. vol. 216; p. 215.
- Electrolytic cell, Operating an. E. E. Werner. No. 1,139,389; May 11; Gaz. vol. 214; p. 623.
- Electrolytic condenser and operating the same. R. D. Mershon. No. 1,132,957; Mar. 23; Gaz. vol. 212; p. 1221.
- Electrolytic interrupter. J. R. Kelley. No. 1,138,761; May 11; Gaz. vol. 214; p. 403.
- Electrolytic meter. J. N. Tuttle. No. 1,156,826; Oct. 12; Gaz. vol. 219; p. 547.
- Electrolytic rectifier. L. W. Chubb. No. 1,156,666; Oct. 12; Gaz. vol. 219; p. 493.
- Electrolytic rectifier. A. Le Blanc. No. 1,165,983; Dec. 28; Gaz. vol. 221; p. 1259.
- Electrolytic refining or extracting process. F. R. Pyne and H. M. Green. No. 1,148,798; Aug. 3; Gaz. vol. 217; p. 113.
- Electromagnet. C. A. Kaiser. No. 1,164,356; Dec. 14; Gaz. vol. 221; p. 612.
- Electromagnet. W. D. Lutz. No. 1,132,783; Mar. 23; Gaz. vol. 212; p. 1158.
- Electromagnet. J. F. McElroy. No. 1,149,275; Aug. 10; Gaz. vol. 217; p. 383.
- Electromagnet. C. R. Moore. No. 1,155,502; Oct. 5; Gaz. vol. 219; p. 63.
- Electromagnet. W. C. Reed. No. 1,165,904; Dec. 28; Gaz. vol. 221; p. 1232.
- Electromagnet. A. R. Trezise, Sr. No. 1,134,779; Apr. 6; Gaz. vol. 213; p. 255.
- Electromagnet. H. G. Webster. No. 1,128,562; Feb. 16; Gaz. vol. 211; p. 753.
- Electromagnet structure. W. W. Dean. No. 1,125,489; Jan. 19; Gaz. vol. 210; p. 885.
- Electromagnets, Core for. P. F. Gerding. No. 1,142,034; June 8; Gaz. vol. 215; p. 370.
- Electromagnetic brake. J. L. Earl. No. 1,148,157; July 27; Gaz. vol. 216; p. 1183.
- Electromagnetic coils, Producing. C. H. Thordarson. No. 1,165,558; Dec. 28; Gaz. vol. 221; p. 1110.
- Electromagnetic controlling device. W. K. Howe. No. 1,146,165; July 13; Gaz. vol. 216; p. 437.
- Electromagnetic device. E. B. Craft. No. 1,139,956; May 18; Gaz. vol. 214; p. 859.
- Electromagnetic device. O. F. Forsberg. No. 1,163,903; Dec. 14; Gaz. vol. 221; p. 454.
- Electromagnetic radiations, Receiving system for. L. De Forest. No. 1,134,593; Apr. 6; Gaz. vol. 213; p. 186.
- Electromagnetic reciprocating devices, Interrupter for. A. Le Blanc. No. 1,124,470; Jan. 12; Gaz. vol. 210; p. 488.
- Electromagnetic regulator. A. Krauss. No. 1,162,174; Nov. 30; Gaz. vol. 220; p. 1503.
- Electromagnetic retaining device. O. A. Ross. No. 1,165,362; Dec. 21; Gaz. vol. 221; p. 1003.
- Electromagnetic selecting apparatus. G. L. Anders. No. 1,124,192; Jan. 5; Gaz. vol. 210; p. 339.
- Electromagnetic switch. C. W. Coleman and A. V. T. Day. No. 1,163,068; Dec. 7; Gaz. vol. 221; p. 116.
- Electromagnetic switch. L. G. Copeman. No. 1,141,174; June 1; Gaz. vol. 215; p. 30.
- Electromagnetic switch. J. Eaton. No. 1,166,339; Dec. 28; Gaz. vol. 221; p. 1389.
- Electromagnetic switch. S. E. Gamble. No. 1,129,287; Feb. 23; Gaz. vol. 211; p. 1043.
- Electromagnetic switch. J. J. Wood. No. 1,159,818; Nov. 9; Gaz. vol. 220; p. 528.
- Electromagnetic waves, Apparatus for generating and receiving. R. A. Fessenden. No. 1,158,123; Oct. 26; Gaz. vol. 219; p. 1097.
- Electromagnetic waves, Means for generating and radiating. G. Seibt. No. 1,153,717; Sept. 14; Gaz. vol. 218; p. 518.
- Electromagnetic waves, Sending mechanism for. R. A. Fessenden. No. 1,126,966; Feb. 2; Gaz. vol. 211; p. 105.
- Electromagnetically-operated device. H. G. Pape. No. 1,124,796; Jan. 12; Gaz. vol. 210; p. 605.
- Electromechanical controlling means for fluid-supplies. W. O. Raymond. No. 1,137,401; Apr. 27; Gaz. vol. 213; p. 1300.
- Electromedical apparatus. C. Santos and R. Boerner. No. 1,156,317; Oct. 12; Gaz. vol. 219; p. 367.
- Electromegaphone-receiver, &c. C. K. Cregier. No. 1,142,875; June 15; Gaz. vol. 215; p. 703.
- Electroplating. C. B. Mills. No. 1,144,226; June 22; Gaz. vol. 215; p. 1200.
- Electroplating apparatus. H. Aderer. No. 1,148,272; July 27; Gaz. vol. 216; p. 1223.
- Electroplating apparatus. H. G. Allers. No. 1,144,680; June 29; Gaz. vol. 215; p. 1382.
- Electroplating apparatus. W. F. Koken and H. J. Richards. No. 1,161,226; Nov. 23; Gaz. vol. 220; p. 1124.
- Electroplating apparatus. C. N. Smith. No. 1,129,241; Feb. 23; Gaz. vol. 211; p. 1027.
- Electroplating device. H. R. Boissier. No. 1,154,604; Sept. 28; Gaz. vol. 218; p. 886.

Alphabetical list of inventions—Continued.

- Electroplating-generator. D. McDermid. No. 1,164,734; Dec. 21; Gaz. vol. 221; p. 784.
- Electropneumatic apparatus. J. M. Stansell and C. D. Oland. No. 1,164,134; Dec. 14; Gaz. vol. 221; p. 536.
- Electropneumatic brake. J. W. Cloud. No. 1,134,440; Apr. 6; Gaz. vol. 213; p. 130.
- Electropneumatic brake. C. N. Holcombe. No. 1,134,853; Apr. 6; Gaz. vol. 213; p. 277.
- Electropneumatic brake. W. V. Turner. No. 1,136,062; Apr. 20; Gaz. vol. 213; p. 783.
- Electropneumatic brake device. W. V. Turner. No. 1,131,968; Mar. 16; Gaz. vol. 212; p. 810.
- Electropneumatic brake mechanism. W. V. Turner. No. 1,131,971; Mar. 16; Gaz. vol. 212; p. 812.
- Electropneumatic switch. W. M. Scott. No. 1,147,820; July 27; Gaz. vol. 216; p. 1062.
- Electropneumatic vent-valve device. E. H. Dewson and W. V. Turner. No. 1,131,219; Mar. 9; Gaz. vol. 212; p. 512.
- Electroresponsive regulator. J. B. Entz. No. 1,125,279; Jan. 19; Gaz. vol. 210; p. 812.
- Electroresponsive regulator. L. L. Tatum. No. 1,142,858; June 15; Gaz. vol. 215; p. 696.
- Electrostatic separator for sorting out the constituent parts of commodities according to their permeability. A. Bibolini and P. Riboni. No. 1,154,907; Sept. 28; Gaz. vol. 218; p. 988.
- Electrotherapeutic apparatus. S. Brooks, Jr., and C. R. Anderson. No. 1,155,036; Sept. 28; Gaz. vol. 218; p. 1032.
- Electrotype-casts and type-forms, Apparatus for cleaning. E. C. Williams. No. 1,152,460; Sept. 7; Gaz. vol. 218; p. 27.
- Electrotype embossing-dies, Making. D. D. Evins. No. 1,154,179; Sept. 21; Gaz. vol. 218; p. 711.
- Electrotype-fastening device. C. J. Thomson. No. 1,139,925; May 18; Gaz. vol. 214; p. 848.
- Electrotype form and plate. A. R. Warren. No. 1,147,130; July 20; Gaz. vol. 216; p. 794.
- Electrotype-insert in an etched plate, Securing an. J. J. Cook. No. 1,148,148; July 27; Gaz. vol. 216; p. 1180.
- Electrotype-plates, Manufacture of. C. P. Cottrell. No. 1,139,259; May 11; Gaz. vol. 214; p. 578.
- Electrotype-shells, Apparatus for backing up. G. E. Dunton. No. 1,125,672; Jan. 19; Gaz. vol. 210; p. 952.
- Electrotype-shells in the manufacture of electrotype printing-plates, Backing up. G. E. Dunton. No. 1,125,671; Jan. 19; Gaz. vol. 210; p. 952.
- Electrotyping, Apparatus for backing up electrotype-shells in the art of. G. E. Dunton. No. 1,164,078; Dec. 14; Gaz. vol. 221; p. 517.
- Electrotyping, Apparatus for treating molds used in. G. E. Dunton. No. 1,128,666; Feb. 16; Gaz. vol. 211; p. 789.
- Electrotyping, Backing up electrotype-shells in the art of. G. E. Dunton. No. 1,164,079; Dec. 14; Gaz. vol. 221; p. 517.
- Electrotyping, Treating molds used in. G. E. Dunton. No. 1,128,427; Feb. 16; Gaz. vol. 211; p. 706.
- Elevated carrier. R. B. Phillips. No. 1,144,060; June 22; Gaz. vol. 215; p. 1140.
- Elevating and dumping apparatus. H. U. Prindle. No. 1,165,284; Dec. 21; Gaz. vol. 221; p. 977.
- Elevating and dumping body. G. W. Lally. No. 1,158,812; Nov. 2; Gaz. vol. 220; p. 142.
- Elevating and dumping body. G. W. Lally. No. 1,158,813; Nov. 2; Gaz. vol. 220; p. 142.
- Elevating apparatus, Liquid-. E. Chamberlin and A. M. Gardner. No. 1,131,209; Mar. 9; Gaz. vol. 212; p. 509.
- Elevating device. L. J. Evans. No. 1,150,752; Aug. 17; Gaz. vol. 217; p. 969.
- Elevator. *See—*
- | | |
|--------------------------|----------------------------|
| Ball-and-screw elevator. | Portable elevator. |
| Electric elevator. | Rope-drive elevator. |
| Fluid-elevator. | Safety-elevator. |
| Freight-elevator. | Silo-elevator. |
| Grain-elevator. | Traction-elevator. |
| Grain-shock elevator. | Vehicle-elevator. |
| Hydraulic elevator. | Water and material lifting |
| Inclinable elevator. | elevator. |
| Plunger-elevator. | |
- Elevator. A. T. Adams. No. 1,163,057; Dec. 7; Gaz. vol. 221; p. 112.
- Elevator. H. J. Buck. No. 1,140,110; May 18; Gaz. vol. 214; p. 915.
- Elevator. M. G. Bunnell. No. 1,145,971; July 13; Gaz. vol. 216; p. 368.
- Elevator. G. F. Chapman. No. 1,136,773; Apr. 20; Gaz. vol. 213; p. 1036.
- Elevator. J. T. Cowley. No. 1,123,493; Jan. 5; Gaz. vol. 210; p. 101.
- Elevator. F. W. Grady. No. 1,150,515; Aug. 17; Gaz. vol. 217; p. 888.
- Elevator. G. John. No. 1,141,964; June 8; Gaz. vol. 215; p. 343.
- Elevator. C. A. Larson. No. 1,159,237; Nov. 2; Gaz. vol. 220; p. 288.
- Elevator. A. Magnuson. No. 1,145,914; July 13; Gaz. vol. 216; p. 348.
- Elevator. J. H. Morrow. No. 1,160,523; Nov. 16; Gaz. vol. 220; p. 827.
- Elevator. F. R. Steely. No. 1,159,809; Nov. 9; Gaz. vol. 220; p. 525.
- Elevator automatic stop. P. L. Manlet. No. 1,158,255; Oct. 26; Gaz. vol. 219; p. 1141.
- Elevator automatic stop. P. L. Manlet. No. 1,158,256; Oct. 26; Gaz. vol. 219; p. 1142.
- Elevator-brake apparatus. M. E. Neenan. No. 1,126,261; Jan. 26; Gaz. vol. 210; p. 1196.
- Elevator-buckets, Disintegrator attachment for. C. C. Jacobs. No. 1,156,291; Oct. 12; Gaz. vol. 219; p. 359.
- Elevator-cage safety device. T. McWatters. No. 1,165,010; Dec. 21; Gaz. vol. 221; p. 881.
- Elevator-car-controlling mechanism. A. W. Hubers. No. 1,155,065; Sept. 28; Gaz. vol. 218; p. 1043.
- Elevator control, Automatic. E. L. Dunn. No. 1,156,987; Oct. 19; Gaz. vol. 219; p. 634.
- Elevator-control mechanism. F. M. Fitzgerald and R. S. Hatch. No. 1,149,746; Aug. 10; Gaz. vol. 217; p. 554.
- Elevator-controlling device, Hydraulic. J. E. Boyce. No. 1,152,481; Sept. 7; Gaz. vol. 218; p. 36.
- Elevator-despatcher. G. W. Meyers. No. 1,156,610; Oct. 12; Gaz. vol. 219; p. 472.
- Elevator device, Safety. H. W. Ganswindt. No. 1,142,693; June 8; Gaz. vol. 215; p. 599.
- Elevator device, Safety. H. Wernigg. No. 1,135,339; Apr. 13; Gaz. vol. 213; p. 488.
- Elevator-door hanger. H. Beltz and R. Moir. No. 1,148,652; Aug. 3; Gaz. vol. 217; p. 61.
- Elevator-door lock. J. D. Ihlder. No. 1,159,586; Nov. 9; Gaz. vol. 220; p. 443.
- Elevator-door lock, Safety. H. L. Goodwin and J. G. Lund. No. 1,146,153; July 13; Gaz. vol. 216; p. 433.
- Elevator-door-locking mechanism. P. G. Wiegert. No. 1,163,387; Dec. 7; Gaz. vol. 221; p. 228.
- Elevator-door opening and closing apparatus, Automatic. C. M. Einfeldt. No. 1,149,742; Aug. 10; Gaz. vol. 217; p. 552.
- Elevator-door-operating apparatus. H. Pitts. No. 1,139,901; May 18; Gaz. vol. 214; p. 840.
- Elevator-door-operating device. L. C. Norton. No. 1,163,104; Dec. 7; Gaz. vol. 221; p. 128.
- Elevator-door-operating device, Electric. C. D. Lawrence. No. 1,158,064; Oct. 26; Gaz. vol. 219; p. 1076.
- Elevator-door-releasing device. F. J. Charland. No. 1,158,174; Oct. 26; Gaz. vol. 219; p. 1114.
- Elevator-door sill. L. W. Doren. No. 1,152,012; Aug. 31; Gaz. vol. 217; p. 1505.
- Elevator-dredge. W. Sheppard. No. 1,126,306; Jan. 26; Gaz. vol. 210; p. 1212.
- Elevator driving-gearing. E. L. Dunn. No. 1,150,424; Aug. 17; Gaz. vol. 217; p. 855.
- Elevator driving mechanism. B. F. Mechlin, Jr. No. 1,149,206; Aug. 10; Gaz. vol. 217; p. 358.
- Elevator electric control. A. Ward. No. 1,160,678; Nov. 16; Gaz. vol. 220; p. 886.
- Elevator-gate. J. C. Bennett. No. 1,156,204; Oct. 12; Gaz. vol. 219; p. 330.
- Elevator-gate and gate-operating mechanism. A. E. Hager. No. 1,135,279; Apr. 13; Gaz. vol. 213; p. 467.
- Elevator-gate lock, Automatic. R. Wilson. No. 1,159,457; Nov. 9; Gaz. vol. 220; p. 398.
- Elevator-gate locking and releasing mechanism, Automatic. J. Mutton. No. 1,162,799; Dec. 7; Gaz. vol. 221; p. 23.
- Elevator-gate-locking mechanism. F. Barlow. No. 1,155,870; Oct. 5; Gaz. vol. 219; p. 191.
- Elevator-gate operating and locking mechanism. A. MacLeod. No. 1,160,520; Nov. 16; Gaz. vol. 220; p. 826.
- Elevator-gate-operating mechanism. A. Landry. No. 1,141,874; June 1; Gaz. vol. 215; p. 273.
- Elevator-gate, Safety. W. G. Johnson. No. 1,143,766; June 22; Gaz. vol. 215; p. 1037.
- Elevator-guards, Automatic. J. H. Cole. No. 1,160,263; Nov. 16; Gaz. vol. 220; p. 737.
- Elevator-hatchway safety-gate. J. C. Collier. No. 1,136,655; Apr. 20; Gaz. vol. 213; p. 994.
- Elevator-indicator system. F. A. Boedtscher. No. 1,165,383; Dec. 28; Gaz. vol. 221; p. 1049.
- Elevator-lock. R. F. Le Brocq. No. 1,128,993; Feb. 16; Gaz. vol. 211; p. 904.
- Elevator mechanism and the like, Control for. J. R. Watson. No. 1,158,344; Oct. 26; Gaz. vol. 219; p. 1173.
- Elevator-operating means. T. Larsson. No. 1,125,133; Jan. 19; Gaz. vol. 210; p. 758.
- Elevator-operating mechanism. P. G. Wiegert. No. 1,163,578; Dec. 7; Gaz. vol. 221; p. 294.
- Elevator-plungers, Safety-grip for. W. E. Small and H. R. Hilton. No. 1,156,324; Oct. 12; Gaz. vol. 219; p. 370.
- Elevator-position indicator. G. Harding. No. 1,135,014; Apr. 13; Gaz. vol. 213; p. 377.
- Elevator safety appliance. H. Burmann. No. 1,134,182; Apr. 6; Gaz. vol. 213; p. 36.
- Elevator safety appliance. H. C. Guffey. No. 1,124,609; Jan. 12; Gaz. vol. 210; p. 537.
- Elevator safety appliance. S. L. McKinney. No. 1,144,965; June 29; Gaz. vol. 215; p. 1480.
- Elevator safety appliance. S. M. Miller. No. 1,144,966; June 29; Gaz. vol. 215; p. 1480.
- Elevator safety attachment. J. C. Clark. No. 1,127,592; Feb. 9; Gaz. vol. 211; p. 364.

Alphabetical list of inventions—Continued.

- Elevator safety attachment. J. E. Dunn. No. 1,151,094; Aug. 24; Gaz. vol. 217; p. 1144.
- Elevator safety-catch. W. J. Webb. No. 1,126,598; Jan. 26; Gaz. vol. 210; p. 1819.
- Elevator safety device. A. Barash. No. 1,129,536; Feb. 23; Gaz. vol. 211; p. 1130.
- Elevator safety device. E. Bårson. No. 1,133,084; Mar. 23; Gaz. vol. 212; p. 1267.
- Elevator safety device. M. Bartos. No. 1,151,854; Aug. 31; Gaz. vol. 217; p. 1451.
- Elevator safety device. M. M. Beam. No. 1,134,582; Apr. 6; Gaz. vol. 213; p. 182.
- Elevator safety device. T. T. Boyle. No. 1,125,948; Jan. 26; Gaz. vol. 210; p. 1081.
- Elevator safety device. E. D. Engledove and C. W. Kitterman. No. 1,164,796; Dec. 21; Gaz. vol. 221; p. 806.
- Elevator safety device. E. L. Gale, Sr. No. 1,132,770; Mar. 23; Gaz. vol. 212; p. 1152.
- Elevator safety device. A. Kampfe. No. 1,149,450; Aug. 10; Gaz. vol. 217; p. 446.
- Elevator safety device. J. A. Keyes. No. 1,144,479; June 29; Gaz. vol. 215; p. 1315.
- Elevator safety device. J. Kovacs. No. 1,161,136; Nov. 23; Gaz. vol. 220; p. 1091.
- Elevator safety device. E. Matava. No. 1,145,250; July 6; Gaz. vol. 216; p. 97.
- Elevator safety device. W. Mielcarek. No. 1,131,152; Mar. 9; Gaz. vol. 212; p. 488.
- Elevator safety device. G. S. Mogyorós. No. 1,157,322; Oct. 19; Gaz. vol. 219; p. 754.
- Elevator safety device. A. Mueller. No. 1,163,165; Dec. 7; Gaz. vol. 221; p. 151.
- Elevator safety device. T. W. Neumuth. No. 1,134,403; Apr. 6; Gaz. vol. 213; p. 116.
- Elevator safety device. O. I. Nigh. No. 1,159,074; Nov. 2; Gaz. vol. 220; p. 229.
- Elevator safety device. F. Pastor. No. 1,139,570; May 18; Gaz. vol. 214; p. 723.
- Elevator safety device. J. P. Proshek. No. 1,161,969; Nov. 30; Gaz. vol. 220; p. 1431.
- Elevator safety device. J. Remjas. No. 1,124,804; Jan. 12; Gaz. vol. 210; p. 607.
- Elevator safety device. J. H. Schwebel. No. 1,162,110; Nov. 30; Gaz. vol. 220; p. 1451.
- Elevator safety device. A. C. Smith. No. 1,148,257; July 27; Gaz. vol. 216; p. 1218.
- Elevator safety device. E. A. Smith. No. 1,132,744; Mar. 23; Gaz. vol. 212; p. 1142.
- Elevator safety device. I. Spiradek, S. Kalisz, and W. Wilkosz. No. 1,165,916; Dec. 28; Gaz. vol. 221; p. 1236.
- Elevator safety device. W. C. Strang. No. 1,141,986; June 8; Gaz. vol. 215; p. 351.
- Elevator safety device. J. Wolski. No. 1,161,571; Nov. 23; Gaz. vol. 220; p. 1247.
- Elevator safety device. M. Zaradzki. No. 1,165,929; Dec. 28; Gaz. vol. 221; p. 1240.
- Elevator safety devices, Appliance for. D. L. Lindquist. No. 1,134,753; Apr. 6; Gaz. vol. 213; p. 245.
- Elevator safety-gate. F. C. Rojahn. No. 1,131,963; Mar. 16; Gaz. vol. 212; p. 809.
- Elevator safety-lock. S. M. Miller. No. 1,144,967; June 29; Gaz. vol. 215; p. 1481.
- Elevator safety or emergency appliance. C. Scott and A. Sundh. No. 1,134,765; Apr. 6; Gaz. vol. 213; p. 250.
- Elevator safety-stop. C. Andrews, Jr. No. 1,143,017; June 15; Gaz. vol. 215; p. 753.
- Elevator safety-stop. E. Claxton. No. 1,163,217; Dec. 7; Gaz. vol. 221; p. 169.
- Elevator safety-stop. J. W. Iron. No. 1,163,239; Dec. 7; Gaz. vol. 221; p. 176.
- Elevator safety-stop. A. Petit. No. 1,158,150; Oct. 26; Gaz. vol. 219; p. 1106.
- Elevator-service register. H. A. Desper. No. 1,148,296; July 27; Gaz. vol. 216; p. 1231.
- Elevator-shaft gate. A. F. Bataille. No. 1,129,537; Feb. 23; Gaz. vol. 211; p. 1130.
- Elevator-signal. R. H. Gaylord and G. B. Capps. No. 1,134,448; Apr. 6; Gaz. vol. 213; p. 183.
- Elevator signal system. J. D. Bowne. No. 1,132,552; Mar. 23; Gaz. vol. 212; p. 1071.
- Elevator signal system. C. S. Johnson. No. 1,127,008; Feb. 2; Gaz. vol. 211; p. 121.
- Elevator signal system. J. G. Somers. No. 1,165,139; Dec. 21; Gaz. vol. 221; p. 928.
- Elevator signaling apparatus. E. R. Newell. No. 1,160,315; Nov. 16; Gaz. vol. 220; p. 754.
- Elevator signaling device. H. L. Kilbourne. No. 1,140,165; May 18; Gaz. vol. 214; p. 934.
- Elevator signaling system. W. B. Lucas. No. 1,124,632; Jan. 12; Gaz. vol. 210; p. 546.
- Elevator signaling system. E. R. Newell. No. 1,132,607; Mar. 23; Gaz. vol. 212; p. 1092.
- Elevator-stop, Automatic. J. D. Kooyman. No. 1,136,144; Apr. 20; Gaz. vol. 213; p. 812.
- Elevator-stopping mechanism, Automatic. T. Larsson. No. 1,127,032; Feb. 2; Gaz. vol. 211; p. 131.
- Elevator-valve. S. C. Greer. No. 1,136,899; Apr. 20; Gaz. vol. 213; p. 1080.
- Elevator-valve mechanism. E. L. Dunn. No. 1,165,053; Dec. 28; Gaz. vol. 221; p. 1145.
- Elevator-valve mechanism. T. Larsson. No. 1,127,031; Feb. 2; Gaz. vol. 211; p. 130.
- Elevators, Automatic safety stopping device for. A. A. Fuller. No. 1,148,450; July 27; Gaz. vol. 216; p. 1285.
- Elevators, Electric signaling mechanism for. H. A. Humphrey. No. 1,129,292; Feb. 23; Gaz. vol. 211; p. 1044.
- Elevators, Electric switch for. F. N. Wake. No. 1,153,656; Sept. 14; Gaz. vol. 218; p. 495.
- Elevators, Gear-drive hoist for. W. L. Rupnow. No. 1,128,525; Feb. 16; Gaz. vol. 211; p. 741.
- Elevators, Landing-chair for. J. M. Howarth. No. 1,152,318; Aug. 31; Gaz. vol. 217; p. 1610.
- Embalming purposes, Draining device for. W. E. Gilmore. No. 1,143,046; June 15; Gaz. vol. 215; p. 763.
- Emblematic pin. M. Eitel. No. 1,135,781; Apr. 13; Gaz. vol. 213; p. 643.
- Embossing and printing machine. T. J. Edwards and W. P. Osgood. No. 1,155,999; Oct. 5; Gaz. vol. 219; p. 233.
- Embossing apparatus. L. A. Brila and W. Andrews. No. 1,133,922; Mar. 30; Gaz. vol. 212; p. 1600.
- Embossing apparatus. F. W. Reindel. No. 1,134,227; Apr. 6; Gaz. vol. 213; p. 53.
- Embossing apparatus, Electric. E. N. Chandler. No. 1,141,689; June 1; Gaz. vol. 215; p. 214.
- Embossing, Heated press-plate for. G. W. Ehrhardt and M. Schiavon. No. 1,129,182; Feb. 23; Gaz. vol. 211; p. 1006.
- Embossing-machine. D. R. Campbell. No. 1,144,340; June 22; Gaz. vol. 215; p. 1240.
- Embossing-machine. P. A. Gardner. No. 1,143,379; June 15; Gaz. vol. 215; p. 881.
- Embossing-machine. H. C. Roos. No. 1,142,273; June 8; Gaz. vol. 215; p. 454.
- Embossing means. J. H. Matthews. No. 1,145,251; July 6; Gaz. vol. 216; p. 97.
- Embossing printed matter, Machine for. J. W. Turner. No. 1,149,303; Aug. 10; Gaz. vol. 217; p. 396.
- Embroidered fabric. J. Schwarz. No. 1,149,956; Aug. 10; Gaz. vol. 217; p. 629.
- Embroidering attachment. C. Stafford. No. 1,147,457; July 20; Gaz. vol. 216; p. 910.
- Embroidering-machine. R. Cornely. No. 1,143,945; June 22; Gaz. vol. 215; p. 1099.
- Embroidering-machine. K. Eggart. No. 1,123,504; Jan. 5; Gaz. vol. 210; p. 105.
- Embroidering-machine. J. A. Groebli. No. 1,123,732; Jan. 5; Gaz. vol. 210; p. 182.
- Embroidering-machine. G. Hübner. No. 1,137,623; Apr. 27; Gaz. vol. 213; p. 1374.
- Embroidering-machine. J. J. Knecht. No. 1,160,417; Nov. 16; Gaz. vol. 220; p. 790.
- Embroidering-machine. M. Schoenfeld. No. 1,139,587; May 18; Gaz. vol. 214; p. 728.
- Embroidering-machine. M. Schoenfeld and B. Wetstein. No. 1,124,176; Jan. 5; Gaz. vol. 210; p. 332.
- Embroidering-machine. W. A. Stellmacher. No. 1,160,338; Nov. 16; Gaz. vol. 220; p. 763.
- Embroidering-machine. E. Weber. No. 1,148,557; Aug. 3; Gaz. vol. 217; p. 26.
- Embroidering-machine. P. Weller. No. 1,145,951; July 13; Gaz. vol. 216; p. 260.
- Embroidering-machine. R. Zahn. No. 1,162,009; Nov. 30; Gaz. vol. 220; p. 1445.
- Embroidering-machine, Automatic. K. Eggart. No. 1,128,962; Feb. 16; Gaz. vol. 211; p. 894.
- Embroidering-machine, Automatic. K. Eggart. No. 1,139,506; May 18; Gaz. vol. 214; p. 702.
- Embroidering-machine, Automatic. H. Saurer. No. 1,155,007; Sept. 28; Gaz. vol. 218; p. 1022.
- Embroidering-machine, Jacquard. H. Saurer. No. 1,139,375; May 11; Gaz. vol. 214; p. 618.
- Embroidering-machine, Shuttle. R. Zahn. No. 1,137,826; May 4; Gaz. vol. 214; p. 36.
- Embroidering-machines, Fabric-tension mechanism for. R. Zahn. No. 1,143,811; Aug. 3; Gaz. vol. 217; p. 118.
- Embroidering-machines, Frame-actuating mechanism for. J. J. Knecht. No. 1,136,815; Apr. 20; Gaz. vol. 213; p. 1051.
- Embroidering-machines, Needle-holding attachment for. W. A. White and E. W. Keller. No. 1,125,787; Jan. 19; Gaz. vol. 210; p. 993.
- Embroidering-machines, Parallel-motion device for. M. Schoenfeld. No. 1,126,881; Feb. 2; Gaz. vol. 211; p. 77.
- Embroidering-machines, Presser-finger-operating mechanism for. R. Zahn. No. 1,158,096; Oct. 26; Gaz. vol. 219; p. 1088.
- Embroidering-machines, Reeling device for fabric-rollers of. K. Keller. No. 1,162,491; Nov. 30; Gaz. vol. 220; p. 1612.
- Embroidering-machines, Roller-spreading device for. J. A. Groebli. No. 1,137,312; Apr. 27; Gaz. vol. 213; p. 1268.
- Embroidering-machines, Shuttle mechanism for. J. A. Groebli. No. 1,126,987; Feb. 2; Gaz. vol. 211; p. 114.
- Embroidering-machines, Shuttle mechanism for. M. Schoenfeld. No. 1,126,880; Feb. 2; Gaz. vol. 211; p. 76.
- Embroidering-machines, Tambour-frame-moving mechanism for. G. Hübner. No. 1,154,397; Sept. 21; Gaz. vol. 218; p. 787.

Alphabetical list of inventions—Continued.

- Embroidering-machines, Tension device for. W. A. White and E. W. Keller. No. 1,124,827; Jan. 12; Gaz. vol. 210; p. 615.
- Embroidering-machines, Tensioning device for. J. A. Groebli. No. 1,137,311; Apr. 27; Gaz. vol. 213; p. 1267.
- Embroidery-cutting machine. K. Keller. No. 1,153,498; Sept. 14; Gaz. vol. 218; p. 440.
- Embroidery device. P. Solaini. No. 1,141,217; June 1; Gaz. vol. 215; p. 45.
- Embroidery-foundation. J. M. Reis. No. 1,124,803; Jan. 12; Gaz. vol. 210; p. 607.
- Embroidery-frame. H. Schoenfeld. No. 1,129,607; Feb. 23; Gaz. vol. 211; p. 1156.
- Embroidery-machine. F. Egge. No. 1,134,040; Mar. 30; Gaz. vol. 212; p. 1639.
- Embroidery-machine. F. Egge. No. 1,134,041; Mar. 30; Gaz. vol. 212; p. 1640.
- Embroidery-machine. F. Marschalek. No. 1,154,871; Sept. 28; Gaz. vol. 218; p. 975.
- Embroidery-machine. F. Marschalek. No. 1,154,872; Sept. 28; Gaz. vol. 218; p. 976.
- Embroidery-machine. M. Schoenfeld. No. 1,126,879; Feb. 2; Gaz. vol. 211; p. 76.
- Embroidery-machine, Circular-shuttle. M. Schoenfeld. No. 1,142,534; June 8; Gaz. vol. 215; p. 546.
- Embroidery-machine, Jacquard. H. Saurer. No. 1,138,015; May 4; Gaz. vol. 214; p. 102.
- Embroidery-machine take-up. C. Farmer. No. 1,139,958; May 18; Gaz. vol. 214; p. 860.
- Embroidery-machines, Jacquard mechanism for. H. Saurer. No. 1,125,730; Jan. 19; Gaz. vol. 215; p. 973.
- Embroidery-machines, Machine for punching Jacquard-cards for automatic. J. J. Knecht. No. 1,151,191; Aug. 24; Gaz. vol. 217; p. 1178.
- Embroidery-pattern machine. C. Keller. No. 1,130,172; Mar. 2; Gaz. vol. 212; p. 114.
- Embroidery, Reinforced scalloped edging for. L. Dinkelsoel. No. 1,152,713; Sept. 7; Gaz. vol. 218; p. 123.
- Embroidery-ring. C. Donahue. No. 1,140,506; May 25; Gaz. vol. 214; p. 1089.
- Embroidery-trimming machine. G. L. Bourquin and R. Loeb. No. 1,143,884; June 22; Gaz. vol. 215; p. 1078.
- Embroidery-trimming machine. G. L. Bourquin and R. Loeb. No. 1,144,320; June 22; Gaz. vol. 215; p. 1232.
- Emergency-brake. A. A. Doty. No. 1,124,716; Jan. 12; Gaz. vol. 210; p. 575.
- Emergency-brake. M. B. Fischer. No. 1,123,718; Jan. 5; Gaz. vol. 210; p. 177.
- Emergency-brake. J. B. Knudsen. No. 1,145,595; July 6; Gaz. vol. 216; p. 216.
- Emergency-brake for automobiles. A. L. Ray. No. 1,148,047; July 27; Gaz. vol. 216; p. 1143.
- Emergency-exit. E. H. Peabody and W. B. Tardy. No. 1,147,885; July 27; Gaz. vol. 216; p. 1085.
- Emery-wheel and grindstone, Superimposed. D. Hall. No. 1,130,163; Mar. 2; Gaz. vol. 212; p. 111.
- Emery-wheel guard. D. W. Cartwright. No. 1,160,841; Nov. 16; Gaz. vol. 220; p. 942.
- Emery-wheel guard and supporting-bracket therefor. F. Geiger. No. 1,158,127; Oct. 26; Gaz. vol. 219; p. 1098.
- Emulsifier. M. Leitch and B. R. Wright. No. 1,145,600; July 6; Gaz. vol. 216; p. 218.
- Emulsifier. C. D. McHenry. No. 1,154,868; Sept. 28; Gaz. vol. 218; p. 974.
- Emulsifier. J. L. Stackpole. No. 1,152,127; Aug. 31; Gaz. vol. 217; p. 1546.
- Emulsifying apparatus. S. H. Blichfeldt. No. 1,166,319; Dec. 28; Gaz. vol. 221; p. 1382.
- Emulsions and substances for use therein, Manufacture of. C. Bückel. No. 1,143,499; June 15; Gaz. vol. 215; p. 921.
- Emulsions, Apparatus for treating. R. E. Laird and J. H. Roney. No. 1,142,760; June 8; Gaz. vol. 215; p. 622.
- Emulsions, Treater for petroleum. R. E. Laird and J. H. Roney. No. 1,142,759; June 8; Gaz. vol. 215; p. 621.
- Enamel and the like, White. I. Kreidl. No. 1,129,300; Feb. 23; Gaz. vol. 211; p. 1047.
- Enamel bar and fountain work-bench. Cast. C. F. Eikenberg. No. 1,129,183; Feb. 23; Gaz. vol. 211; p. 1006.
- Enamel, Manufacturing opaquing agents for white. I. Kreidl. No. 1,123,760; Jan. 5; Gaz. vol. 210; p. 193.
- Enamel or glaze composition, Opaque. C. Baezner. No. 1,153,748; Sept. 14; Gaz. vol. 218; p. 528.
- Enamels, Opaquing agents for the production of white. I. Kreidl. No. 1,150,772; Aug. 17; Gaz. vol. 217; p. 976.
- Enamels, &c., Opaquing composition for. J. Weber. No. 1,150,467; Aug. 17; Gaz. vol. 217; p. 871.
- Enameling-machine. F. W. Miles. No. 1,146,507; July 13; Gaz. vol. 216; p. 559.
- End-cell regulator. W. L. Bliss. No. 1,135,494; Apr. 13; Gaz. vol. 213; p. 543.
- End-cell switch. J. W. Achard. No. 1,140,322; May 18; Gaz. vol. 214; p. 987.
- End construction. T. H. Symington. No. 1,125,917; Jan. 19; Gaz. vol. 210; p. 1038.
- End-gate. C. D. Brown. No. 1,162,561; Nov. 30; Gaz. vol. 220; p. 1635.
- End-gate. F. D. Howe. No. 1,150,195; Aug. 17; Gaz. vol. 217; p. 776.
- End-gate. C. Larson. No. 1,134,877; Apr. 6; Gaz. vol. 213; p. 285.
- End-gate. W. L. Meink. No. 1,131,404; Mar. 9; Gaz. vol. 212; p. 576.
- End-gate. A. A. Merrill. No. 1,135,540; Apr. 13; Gaz. vol. 213; p. 559.
- End-gate. H. Pederson. No. 1,150,961; Aug. 24; Gaz. vol. 217; p. 1100.
- End-gate. W. H. Seals. No. 1,156,498; Oct. 12; Gaz. vol. 219; p. 434.
- End-gate fastener. T. D. Harvey. No. 1,128,870; Feb. 16; Gaz. vol. 211; p. 859.
- End-gate fastener. P. A. Reyner. No. 1,144,062; June 22; Gaz. vol. 215; p. 1141.
- End-gate for wagons and vehicles. S. Dufala. No. 1,125,982; Jan. 26; Gaz. vol. 210; p. 1094.
- End-gate rod and lock. E. P. Carlin. No. 1,140,796; May 25; Gaz. vol. 214; p. 1187.
- End-gate tightener. H. S. Kiesau. No. 1,138,762; May 11; Gaz. vol. 214; p. 403.
- End-gate, Vehicle. J. A. Ramsey. No. 1,135,844; Apr. 13; Gaz. vol. 213; p. 667.
- End-gate, Wagon. W. E. Crawford. No. 1,124,300; Jan. 12; Gaz. vol. 210; p. 426.
- End-gate, Wagon. C. J. Donat. No. 1,130,495; Mar. 2; Gaz. vol. 212; p. 230.
- End-gate, Wagon. T. Ryan. No. 1,156,182; Oct. 12; Gaz. vol. 219; p. 323.
- End-matching machines, Automatic trip mechanism for. W. Taylor. No. 1,152,990; Sept. 7; Gaz. vol. 218; p. 224.
- End-stake pockets and end-sill brace, Combined. E. R. Viberg. No. 1,137,812; May 4; Gaz. vol. 214; p. 31.
- Endless carrier. W. J. Turnbull. No. 1,140,923; May 25; Gaz. vol. 214; p. 1235.
- Energy from one body of gaseous fluid to another and the utilization of the resulting product, Means for imparting. J. A. Hart. No. 1,131,511; Mar. 9; Gaz. vol. 212; p. 613.
- Energy reservoir, Kinetic. H. E. Goldberg. No. 1,126,750; Feb. 2; Gaz. vol. 211; p. 30.
- Engine: See—
- Air-engine.
 - Automobile chemical-engine.
 - Beating-engine.
 - Blowing-engine.
 - Caloric engine.
 - Carding-engine.
 - Centerless engine.
 - Combustion-engine.
 - Compound engine.
 - Cycle-engine.
 - Diesel engine.
 - Elastic-fluid engine.
 - Expansion-engine.
 - Explosion-engine.
 - Explosive-engine.
 - Fluid-actuated engine.
 - Fluid-operated engine.
 - Fluid-pressure engine.
 - Four-cycle engine.
 - Gas-engine.
 - Gasolene-engine.
 - Heat-engine.
 - Hoisting-engine.
 - Horizontal-cylinder engine.
 - Hydrocarbon-engine.
 - Internal-combustion engine.
 - Internal-combustion or explosion engine.
 - Internal-combustion pumping-engine.
 - Internal-combustion turbine-engine.
 - Internal-explosion engine.
 - Magnetic engine.
 - Multicylinder engine.
 - Oil-engine.
 - Oscillating engine.
 - Portable engine.
 - Pressure-engine.
 - Pumping-engine.
 - Reciprocating-piston engine.
 - Refining-engine.
 - Revolving-cylinder engine.
 - Rotary engine.
 - Rotary combustion-engine.
 - Rotary-cylinder engine.
 - Rotary explosive-engine.
 - Rotary gas-engine.
 - Rotary internal-combustion engine.
 - Rotary oscillating engine.
 - Rotary-piston engine.
 - Rotary steam-engine.
 - Rotary-valve gas-engine.
 - Saw-engine.
 - Self-starting engine.
 - Steam-engine.
 - Steam and other fluid-pressure engine.
 - Thermal engine.
 - Traction-engine.
 - Tractor-engine.
 - Turbine-engine.
 - Two-cycle engine.
 - Two-cylinder engine.
 - Well-drilling engine.
- Engine. A. D. Baker. No. 1,145,177; July 6; Gaz. vol. 216; p. 70.
- Engine. J. D. Barter. No. 1,150,734; Aug. 17; Gaz. vol. 217; p. 963.
- Engine. D. Berry. No. 1,125,641; Jan. 19; Gaz. vol. 210; p. 939.
- Engine. A. Burkhardt. No. 1,137,118; Apr. 27; Gaz. vol. 213; p. 1196.
- Engine. A. Burkhardt. No. 1,149,335; Aug. 10; Gaz. vol. 217; p. 406.
- Engine. E. A. Burrow. No. 1,144,584; June 29; Gaz. vol. 215; p. 1349.
- Engine. J. A. Charter. No. 1,127,184; Feb. 2; Gaz. vol. 211; p. 183.
- Engine. M. Fischer. No. 1,164,610; Dec. 14; Gaz. vol. 221; p. 700.
- Engine. S. O. Gould. No. 1,129,086; Feb. 23; Gaz. vol. 211; p. 972.
- Engine. E. F. Howe. No. 1,150,768; Aug. 17; Gaz. vol. 217; p. 974.
- Engine. E. I. Hunter. No. 1,149,521; Aug. 10; Gaz. vol. 217; p. 471.
- Engine. C. J. Lake. No. 1,154,034; Sept. 21; Gaz. vol. 218; p. 662.
- Engine. C. Larson. No. 1,126,035; Jan. 26; Gaz. vol. 210; p. 1112.
- Engine. J. McElrain. No. 1,127,267; Feb. 2; Gaz. vol. 211; p. 212.

- Engine. W. E. Minue. No. 1,151,602; Aug. 31; Gaz. vol. 217; p. 1364.
- Engine. B. V. Nordberg. No. 1,157,029; Oct. 19; Gaz. vol. 219; p. 650.
- Engine. L. Panosh. No. 1,133,057; Mar. 23; Gaz. vol. 212; p. 1259.
- Engine. J. Whitelaw. No. 1,143,563; June 15; Gaz. vol. 215; p. 943.
- Engine. W. H. Winslow. No. 1,150,830; Aug. 17; Gaz. vol. 217; p. 996.
- Engine. F. J. Zellar. No. 1,144,276; June 22; Gaz. vol. 215; p. 1217.
- Engine and clutch control. E. J. Armstrong. No. 1,165,831; Dec. 28; Gaz. vol. 221; p. 1206.
- Engine and compressor. Combined. H. T. Herr. No. 1,161,128; Nov. 23; Gaz. vol. 220; p. 1088.
- Engine and controlling means for operation of same. C. A. Kinney. No. 1,150,683; Aug. 17; Gaz. vol. 217; p. 946.
- Engine and friction-clutch control. C. B. Weston. No. 1,154,149; Sept. 21; Gaz. vol. 218; p. 701.
- Engine attachment. F. R. Nyberg. No. 1,142,612; June 8; Gaz. vol. 215; p. 572.
- Engine attachment. C. W. Shepard and H. W. Payne. No. 1,161,538; Nov. 23; Gaz. vol. 220; p. 1235.
- Engine attachment, Automobile. A. De Clairmont. No. 1,164,930; Dec. 21; Gaz. vol. 221; p. 853.
- Engine attachment, Gas-. J. M. Manes. No. 1,133,872; Mar. 30; Gaz. vol. 212; p. 1586.
- Engine attachment, Hydrocarbon-. F. G. Folberth. No. 1,142,951; June 15; Gaz. vol. 215; p. 730.
- Engine attachment, Traction-. V. M. Horacek. No. 1,129,291; Feb. 23; Gaz. vol. 211; p. 1044.
- Engine charge-forming apparatus, Internal-combustion-. H. C. Snyder. No. 1,146,969; July 20; Gaz. vol. 216; p. 738.
- Engine construction. A. Hjelte. No. 1,127,623; Feb. 9; Gaz. vol. 211; p. 374.
- Engine control, Hoisting-. W. J. Lilly. No. 1,153,124; Sept. 7; Gaz. vol. 218; p. 267.
- Engine controller, Explosion-. A. Winton. No. 1,124,987; Jan. 12; Gaz. vol. 210; p. 671.
- Engine controller, Internal-combustion-. C. O. Pearson. No. 1,156,430; Oct. 12; Gaz. vol. 219; p. 410.
- Engine-controlling apparatus, Hoisting-. C. R. Welch. No. 1,150,720; Aug. 17; Gaz. vol. 217; p. 958.
- Engine-controlling apparatus, Hoisting-. C. R. Welch. No. 1,150,721; Aug. 17; Gaz. vol. 217; p. 959.
- Engine-controlling device, Hoisting-. S. T. Nelson. No. 1,129,045; Feb. 16; Gaz. vol. 211; p. 923.
- Engine-controlling device, Hoisting-. C. R. Welch. No. 1,150,722; Aug. 17; Gaz. vol. 217; p. 959.
- Engine-controlling device, Internal-combustion-. W. W. Brown. No. 1,137,254; Apr. 27; Gaz. vol. 213; p. 1246.
- Engine-controlling mechanism, Internal-combustion-. W. W. Brown. No. 1,132,301; Mar. 16; Gaz. vol. 212; p. 933.
- Engine-controlling mechanism, Internal-combustion-. B. Kramer. No. 1,153,629; Sept. 14; Gaz. vol. 218; p. 487.
- Engine-controlling mechanism, Internal-combustion-. H. Lemp. No. 1,154,785; Sept. 28; Gaz. vol. 218; p. 948.
- Engine-controlling mechanism, Internal-combustion-. A. G. Moreton. No. 1,158,000; Oct. 26; Gaz. vol. 219; p. 1052.
- Engine cooler, Internal-combustion-. H. C. Gibson. No. 1,147,232; July 20; Gaz. vol. 216; p. 830.
- Engine-cooling apparatus, Gas-. C. Kelley. No. 1,160,291; Nov. 16; Gaz. vol. 220; p. 746.
- Engine-cooling apparatus, Internal-combustion-. F. W. George. No. 1,145,137; July 6; Gaz. vol. 216; p. 57.
- Engine-cooling device. G. S. Jacobs. No. 1,139,289; May 11; Gaz. vol. 214; p. 588.
- Engine-cooling device, Rotary-gas-. A. J. Seaman. No. 1,123,403; Jan. 5; Gaz. vol. 210; p. 71.
- Engine-cooling means, Internal-combustion-. V. Ulmer. No. 1,123,431; Jan. 5; Gaz. vol. 210; p. 80.
- Engine-cooling system. F. E. Kube. No. 1,140,987; May 25; Gaz. vol. 214; p. 1257.
- Engine-cooling system, Internal-combustion-. P. Montbarbon. No. 1,155,950; Oct. 5; Gaz. vol. 219; p. 217.
- Engine-coupling link. E. P. Stack. No. 1,124,966; Jan. 12; Gaz. vol. 210; p. 664.
- Engine coupling, Traction-. A. E. Fraedrich. No. 1,129,188; Feb. 23; Gaz. vol. 211; p. 1008.
- Engine-crank casing. E. R. Hewitt. No. 1,135,524; Apr. 13; Gaz. vol. 213; p. 553.
- Engine-cranking device, Explosive-. H. M. Kauffman. No. 1,141,189; June 1; Gaz. vol. 215; p. 35.
- Engine-cranking mechanism. T. and W. M. Carroll. No. 1,161,841; Nov. 30; Gaz. vol. 220; p. 1385.
- Engine-cylinder. A. I. Sandbo. No. 1,142,631; June 8; Gaz. vol. 215; p. 579.
- Engine-cylinder, Divided. K. Steinbecker. No. 1,157,334; Oct. 19; Gaz. vol. 219; p. 758.
- Engine cylinder-head, Explosive-. E. Rounds. No. 1,129,605; Feb. 23; Gaz. vol. 211; p. 1155.
- Engine cylinder, Internal-combustion-. C. Regenbogen and P. A. Ritter. No. 1,156,312; Oct. 12; Gaz. vol. 219; p. 366.
- Engine cylinder, Steam-. H. F. Ball and H. R. Stafford. No. 1,151,237; Aug. 24; Gaz. vol. 217; p. 1194.
- Engine-cylinders, Arrangement in steam-engines for taking working steam from the. W. Schmidt. No. 1,142,370; June 8; Gaz. vol. 215; p. 488.
- Engine cylinders, Cooling means for gas-. W. W. Macfarren. No. 1,161,493; Nov. 23; Gaz. vol. 220; p. 1219.
- Engine-cylinders, Construction of. E. Jaenisch. No. 1,132,937; Mar. 23; Gaz. vol. 212; p. 1214.
- Engine-cylinders, Device for re boring. L. E. Davis. No. 1,160,267; Nov. 16; Gaz. vol. 220; p. 738.
- Engine-cylinders, Excess-lubricant-collecting means for. C. Radiguer. No. 1,143,914; June 22; Gaz. vol. 215; p. 1087.
- Engine-detector. G. B. Gilman. No. 1,125,510; Jan. 19; Gaz. vol. 210; p. 893.
- Engine, Device for indicating the horse-power of an. W. H. Hollstein. No. 1,159,769; Nov. 9; Gaz. vol. 220; p. 510.
- Engine device, Stationary-. M. P. Singer. No. 1,151,908; Aug. 31; Gaz. vol. 217; p. 1470.
- Engine equipment, Internal-combustion-. E. M. Kramer. No. 1,129,405; Feb. 23; Gaz. vol. 211; p. 1085.
- Engine for utilizing powdered fuel. W. G. Miner. No. 1,156,702; Oct. 12; Gaz. vol. 219; p. 505.
- Engine-gearing. J. W. Jepson. No. 1,148,478; July 27; Gaz. vol. 216; p. 1295.
- Engine gearing, Traction-. M. A. Thoreson. No. 1,131,572; Mar. 9; Gaz. vol. 212; p. 633.
- Engine guide, Traction-. C. S. Whitworth. No. 1,132,139; Mar. 16; Gaz. vol. 212; p. 873.
- Engine header attachment. J. A. Baker. No. 1,154,595; Sept. 28; Gaz. vol. 218; p. 883.
- Engine heater, Internal-combustion-. W. P. Deppé. No. 1,154,617; Sept. 28; Gaz. vol. 218; p. 881.
- Engine-hood cover. C. D. Miller. (Reissue.) No. 13,916; May 11; Gaz. vol. 214; p. 654.
- Engine-house, &c., smoke-jack, Locomotive-. J. W. Orrock. No. 1,150,878; Aug. 24; Gaz. vol. 217; p. 1072.
- Engine igniter, Gas-. J. E. Amerman. No. 1,162,206; Nov. 30; Gaz. vol. 220; p. 1513.
- Engine igniter, Internal-combustion-. M. P. Ryder. No. 1,129,234; Feb. 23; Gaz. vol. 211; p. 1023.
- Engine igniter, Gas-. C. C. Preston. No. 1,141,051; May 25; Gaz. vol. 214; p. 1277.
- Engine igniter, Internal-combustion-. J. A. Warren. No. 1,161,555; Nov. 23; Gaz. vol. 220; p. 1241.
- Engine igniter mechanism, Internal-combustion-. H. R. Van Deventer. No. 1,153,767; Sept. 14; Gaz. vol. 218; p. 534.
- Engine igniting device, Explosive-. W. J. Martin. No. 1,161,400; Nov. 23; Gaz. vol. 220; p. 1187.
- Engine igniting device, Internal-combustion-. J. G. Newman. No. 1,147,811; July 27; Gaz. vol. 216; p. 1058.
- Engine ignition apparatus, Explosion-. F. B. Williams. No. 1,158,762; Nov. 23; Gaz. vol. 220; p. 123.
- Engine ignition device, Explosive-. H. R. Stuart. No. 1,150,463; Aug. 17; Gaz. vol. 217; p. 869.
- Engine ignition device, Internal-combustion-. J. S. Kendall. No. 1,146,800; July 20; Gaz. vol. 216; p. 679.
- Engine ignition device, Internal-combustion-. L. T. Rhoades. No. 1,155,372; Oct. 5; Gaz. vol. 219; p. 17.
- Engine ignition system, Internal-combustion-. H. R. Van Deventer. No. 1,142,920; June 15; Gaz. vol. 215; p. 719.
- Engine ignition systems, Combination cut-out for. J. C. Sims. No. 1,149,001; Aug. 3; Gaz. vol. 217; p. 183.
- Engine, Improving the roving produced on a carding-. H. Maly. No. 1,154,870; Sept. 28; Gaz. vol. 218; p. 975.
- Engine installation, Marine-. A. Büchi. No. 1,138,077; May 4; Gaz. vol. 214; p. 125.
- Engine-lubricating device. J. J. P. Smith. No. 1,144,257; June 22; Gaz. vol. 215; p. 1211.
- Engine-lubricating means, Steam-. W. S. Peavey. No. 1,156,432; Oct. 12; Gaz. vol. 219; p. 410.
- Engine-lubricating system and transmission. E. A. Nelson. No. 1,144,496; June 29; Gaz. vol. 215; p. 1320.
- Engine-lubricating system, Explosion-. G. W. Dunham. No. 1,136,219; Apr. 20; Gaz. vol. 213; p. 838.
- Engine-lubricating system, Gas-. H. H. Wilburn. No. 1,125,238; Jan. 19; Gaz. vol. 210; p. 797.
- Engine-lubricator. A. G. Cooper. No. 1,158,121; Oct. 26; Gaz. vol. 219; p. 1096.
- Engine lubricator, Steam-. J. F. Derhammer. No. 1,135,164; Apr. 13; Gaz. vol. 213; p. 429.
- Engine-manifold. E. R. Greer. No. 1,150,264; Aug. 17; Gaz. vol. 217; p. 802.
- Engine-manifold. F. C. Merrege. No. 1,160,744; Nov. 16; Gaz. vol. 220; p. 909.
- Engine-mounting. C. G. Mahana. No. 1,157,168; Oct. 19; Gaz. vol. 219; p. 699.
- Engine muffler, Explosion-. C. H. Kenney. No. 1,152,381; Aug. 31; Gaz. vol. 217; p. 1634.
- Engine or vehicle motion when traveling, Mechanism or apparatus for controlling, retarding, and arresting. P. J. Simmen. No. 1,150,308; Aug. 17; Gaz. vol. 217; p. 816.
- Engine primer and speeder, Internal-combustion-. L. Weglein, Jr. No. 1,123,444; Jan. 5; Gaz. vol. 210; p. 85.
- Engine primer, Explosive-. J. B. Wetmore. No. 1,128,643; Feb. 16; Gaz. vol. 211; p. 780.
- Engine primer, Gas-. R. B. Brauer. No. 1,155,205; Sept. 28; Gaz. vol. 218; p. 1092.

Alphabetical list of inventions—Continued.

- Engine primer, Gas-. E. H. Bauer. No. 1,155,871; Oct. 5; Gaz. vol. 219; p. 191.
- Engine primer, Internal-combustion-. J. and B. Bowman. No. 1,130,705; Mar. 9; Gaz. vol. 212; p. 336.
- Engine-priming apparatus, Explosive-. W. Gay. No. 1,125,548; Jan. 19; Gaz. vol. 210; p. 906.
- Engine-priming apparatus, Internal-combustion-. C. L. Shockley and H. E. Stratey. No. 1,126,581; Jan. 26; Gaz. vol. 210; p. 1313.
- Engine-priming device. J. L. Parkes. No. 1,162,803; Dec. 7; Gaz. vol. 221; p. 25.
- Engine-priming system, Internal-combustion-. G. W. Dunham. No. 1,133,011; Mar. 23; Gaz. vol. 212; p. 1242.
- Engine-rack. C. A. Arnholm. No. 1,131,027; Mar. 9; Gaz. vol. 212; p. 447.
- Engine-rack. C. Reisel. No. 1,164,395; Dec. 14; Gaz. vol. 221; p. 626.
- Engine recorder, Gas-. H. C. Morrow. No. 1,161,875; Nov. 30; Gaz. vol. 220; p. 1397.
- Engine-regulating means, Internal-combustion-. A. L. Riker. No. 1,136,368; Apr. 20; Gaz. vol. 213; p. 892.
- Engine-regulating means, Internal-combustion-. A. L. Riker. No. 1,149,597; Aug. 10; Gaz. vol. 217; p. 498.
- Engine regulator, Combustion-. C. G. Sprado. No. 1,143,328; June 15; Gaz. vol. 215; p. 863.
- Engine revalorizer, Internal-combustion-. B. MacNutt. No. 1,152,744; Sept. 7; Gaz. vol. 218; p. 133.
- Engine-reversing arrangement, Internal-combustion-. M. R. Matti. No. 1,130,833; Mar. 9; Gaz. vol. 212; p. 379.
- Engine-reversing gear, Internal-combustion-. R. Landolt. No. 1,163,160; Dec. 7; Gaz. vol. 221; p. 149.
- Engine-rod connection. W. L. Brown and A. J. Meuwly. No. 1,152,876; Sept. 7; Gaz. vol. 218; p. 182.
- Engine safety appliance, Steam-. W. T. Robinson. No. 1,132,795; Mar. 23; Gaz. vol. 212; p. 1162.
- Engine safety appliance, Steam-. H. M. St. John. No. 1,154,549; Sept. 21; Gaz. vol. 218; p. 838.
- Engine safety device, Blowing-. H. G. O'Reilly. No. 1,137,164; Apr. 27; Gaz. vol. 213; p. 1213.
- Engine safety device, Marine-. G. C. Ellerton. No. 1,123,264; Jan. 5; Gaz. vol. 210; p. 21.
- Engine safety starting device, Internal-combustion-. A. Liberty. No. 1,148,176; July 27; Gaz. vol. 216; p. 1190.
- Engine self-starter. E. A. Ford. No. 1,157,211; Oct. 19; Gaz. vol. 219; p. 714.
- Engine self-starter, Explosive-. B. F. Hutches, Jr. No. 1,134,537; Apr. 6; Gaz. vol. 213; p. 165.
- Engine self-starter, Hydrocarbon-. W. M. Craig. No. 1,124,866; Jan. 12; Gaz. vol. 210; p. 630.
- Engine self-starter, Internal-combustion-. W. D. Lutz. No. 1,147,956; July 27; Gaz. vol. 216; p. 1110.
- Engine self-starter, Internal-combustion-. A. H. Midgley and C. A. Vandervell. No. 1,159,061; Nov. 2; Gaz. vol. 220; p. 225.
- Engine self-starter, Internal-combustion-. J. J. Rowe. No. 1,129,814; Feb. 23; Gaz. vol. 211; p. 1222.
- Engine sparkler, Explosive-. W. H. Ferguson. No. 1,152,085; Aug. 31; Gaz. vol. 217; p. 1531.
- Engine sparking device. W. M. Stempel. No. 1,138,512; May 4; Gaz. vol. 214; p. 277.
- Engine speed-controller, Gas-. R. S. Anderson. No. 1,130,563; Mar. 2; Gaz. vol. 212; p. 253.
- Engine-starter. V. Bendix. No. 1,124,264; Jan. 12; Gaz. vol. 210; p. 412.
- Engine-starter. V. Bendix. No. 1,125,935; Jan. 26; Gaz. vol. 210; p. 1076.
- Engine-starter. V. Bendix. No. 1,134,975; Apr. 6; Gaz. vol. 213; p. 318.
- Engine-starter. V. Bendix. No. 1,146,992; July 20; Gaz. vol. 216; p. 747.
- Engine-starter. G. G. Chute and C. A. Groat. No. 1,136,464; Apr. 20; Gaz. vol. 213; p. 926.
- Engine-starter. J. H. Clark. No. 1,157,761; Oct. 26; Gaz. vol. 219; p. 969.
- Engine-starter. W. D. Everly. No. 1,145,130; July 6; Gaz. vol. 216; p. 55.
- Engine-starter. W. S. Harley. No. 1,137,314; Apr. 27; Gaz. vol. 213; p. 1268.
- Engine-starter. M. A. Harris. No. 1,157,533; Oct. 19; Gaz. vol. 219; p. 828.
- Engine-starter. A. H. Klahn. No. 1,143,406; June 15; Gaz. vol. 215; p. 891.
- Engine-starter. J. L. Lake and G. W. Beyerle. No. 1,125,130; Jan. 19; Gaz. vol. 210; p. 757.
- Engine-starter. W. H. Laraway. No. 1,162,619; Nov. 30; Gaz. vol. 220; p. 1652.
- Engine-starter. L. W. Needham. No. 1,147,424; July 20; Gaz. vol. 216; p. 898.
- Engine-starter. C. Pohl. No. 1,149,783; Aug. 10; Gaz. vol. 217; p. 566.
- Engine-starter. J. F. Raleigh. No. 1,131,417; Mar. 9; Gaz. vol. 212; p. 581.
- Engine-starter. A. I. Sandbo. No. 1,128,055; Feb. 9; Gaz. vol. 211; p. 528.
- Engine-starter. A. I. Sandbo. No. 1,136,722; Apr. 20; Gaz. vol. 213; p. 1018.
- Engine-starter. G. B. Sinclair. No. 1,137,358; Apr. 27; Gaz. vol. 213; p. 1285.
- Engine-starter. R. A. Stabler. No. 1,156,718; Oct. 12; Gaz. vol. 219; p. 510.
- Engine-starter. R. H. Stull. No. 1,143,460; June 15; Gaz. vol. 215; p. 909.
- Engine starter and electric generator, Combined gas-. J. D. Taylor. No. 1,140,011; May 18; Gaz. vol. 214; p. 880.
- Engine-starter, Automatic. J. W. Beck. No. 1,161,827; Nov. 30; Gaz. vol. 220; p. 1380.
- Engine-starter, Automatic. A. W. Knutson. No. 1,145,690; July 6; Gaz. vol. 216; p. 250.
- Engine-starter, Automatic automobile. J. W. Hoffner. No. 1,165,506; Dec. 28; Gaz. vol. 221; p. 1092.
- Engine-starter, Automobile. J. W. Ulrich. No. 1,145,529; July 6; Gaz. vol. 216; p. 194.
- Engine-starter control, Explosive-. H. A. Myers. No. 1,132,602; Mar. 23; Gaz. vol. 212; p. 1090.
- Engine-starter, dynamo, and ignition-timer for automobiles, Combined. G. R. Wadsworth. No. 1,158,597; Nov. 2; Gaz. vol. 220; p. 66.
- Engine-starter, Electric. M. P. Mitchell. No. 1,139,210; May 11; Gaz. vol. 214; p. 562.
- Engine starter, Explosion-. C. R. Miller. No. 1,133,737; Mar. 30; Gaz. vol. 212; p. 1537.
- Engine starter, Explosive-. J. B. Aufuldish. No. 1,143,930; June 22; Gaz. vol. 215; p. 1093.
- Engine starter, Explosive-. J. B. Aufuldish. No. 1,151,987; Aug. 31; Gaz. vol. 217; p. 1496.
- Engine starter, Explosive-. J. B. Aufuldish. No. 1,155,781; Oct. 5; Gaz. vol. 219; p. 159.
- Engine starter, Explosive-. J. R. Binns. No. 1,148,071; July 27; Gaz. vol. 216; p. 1151.
- Engine starter, Explosive-. W. H. Enders. No. 1,127,212; Feb. 2; Gaz. vol. 211; p. 193.
- Engine starter, Explosive-. C. E. Hunt. No. 1,153,085; Sept. 7; Gaz. vol. 218; p. 255.
- Engine-starter for automobiles and the like. J. W. Moore. No. 1,142,191; June 8; Gaz. vol. 215; p. 425.
- Engine starter, Gas-. V. Bendix. No. 1,144,097; June 22; Gaz. vol. 215; p. 1154.
- Engine starter, Gas-. S. S. Krayer. No. 1,138,765; May 11; Gaz. vol. 214; p. 404.
- Engine starter, Gas-. C. K. Salisbury. No. 1,129,427; Feb. 23; Gaz. vol. 211; p. 1092.
- Engine starter, Gas-. C. C. Wedge. No. 1,157,829; Oct. 26; Gaz. vol. 219; p. 992.
- Engine starter, Internal-combustion-. F. J. Bordeaux. No. 1,128,219; Feb. 9; Gaz. vol. 211; p. 585.
- Engine starter, Internal-combustion-. F. E. Fisher. No. 1,159,752; Nov. 9; Gaz. vol. 220; p. 503.
- Engine starter, Internal-combustion-. H. W. Hamilton. No. 1,149,133; Aug. 3; Gaz. vol. 217; p. 226.
- Engine starter, Internal-combustion-. H. W. Hamilton. No. 1,149,135; Aug. 3; Gaz. vol. 217; p. 227.
- Engine starter, Internal-combustion-. G. J. Spohrer. No. 1,132,224; Mar. 16; Gaz. vol. 212; p. 904.
- Engine-starter mechanism. H. R. Sieverkropp. No. 1,162,410; Nov. 30; Gaz. vol. 220; p. 1583.
- Engine-starters, Reduction-gearing for. T. J. Gray. No. 1,125,091; Jan. 19; Gaz. vol. 210; p. 744.
- Engine starting and generating apparatus, Gas-. J. A. Heany. No. 1,124,736; Jan. 12; Gaz. vol. 210; p. 583.
- Engine starting and reversing devices, Marine internal-combustion. P. Praetorius. No. 1,165,539; Dec. 28; Gaz. vol. 221; p. 1104.
- Engine-starting apparatus, Explosive-. J. A. Allison. No. 1,151,151; Aug. 24; Gaz. vol. 217; p. 1165.
- Engine-starting apparatus, Internal-combustion-. J. A. Allison and O. H. Skinner. No. 1,151,150; Aug. 24; Gaz. vol. 217; p. 1164.
- Engine-starting apparatus, Internal-combustion-. W. E. Eastman. No. 1,137,847; May 4; Gaz. vol. 214; p. 43.
- Engine-starting arrangement, Internal-combustion-. H. Lentz. No. 1,151,481; Aug. 24; Gaz. vol. 217; p. 1274.
- Engine-starting attachment, Internal-combustion-. B. A. Powell. No. 1,129,723; Feb. 23; Gaz. vol. 211; p. 1191.
- Engine-starting crank. W. E. Dale. No. 1,145,294; July 6; Gaz. vol. 216; p. 111.
- Engine-starting device. G. H. Bubel. No. 1,123,240; Jan. 5; Gaz. vol. 210; p. 13.
- Engine-starting device. J. O. Hobbs. No. 1,150,033; Aug. 17; Gaz. vol. 217; p. 718.
- Engine-starting device. C. F. Kettering. No. 1,150,523; Aug. 17; Gaz. vol. 217; p. 890.
- Engine-starting device. E. Kneezell. No. 1,135,819; Apr. 13; Gaz. vol. 213; p. 658.
- Engine-starting device. C. E. Sargent. No. 1,162,193; Nov. 30; Gaz. vol. 220; p. 1509.
- Engine-starting device, Automobile-. H. A. Miller. No. 1,160,637; Nov. 16; Gaz. vol. 220; p. 870.
- Engine-starting device, Explosive-. C. J. Gustafson. No. 1,125,842; Jan. 19; Gaz. vol. 210; p. 1011.
- Engine-starting device, Explosive-. C. F. and C. C. Poole. No. 1,136,913; Apr. 20; Gaz. vol. 213; p. 1085.
- Engine-starting device, Explosive-. L. C. Van Riper. No. 1,129,250; Feb. 23; Gaz. vol. 211; p. 1029.
- Engine-starting device, Explosive-. L. C. Van Riper. No. 1,129,251; Feb. 23; Gaz. vol. 211; p. 1030.
- Engine-starting device, Explosive-. R. F. Webber. No. 1,160,475; Nov. 16; Gaz. vol. 220; p. 811.
- Engine-starting device, Explosive-. R. F. Webber. No. 1,160,476; Nov. 16; Gaz. vol. 220; p. 811.
- Engine-starting device for motor-cycles. F. S. Ellett. No. 1,141,787; June 1; Gaz. vol. 215; p. 246.

- Engine-starting device, Gas-. R. W. Knapp. No. 1,142,889; June 15; Gaz. vol. 215; p. 708.
- Engine-starting device, Gas-. R. W. Knapp. No. 1,142,890; June 15; Gaz. vol. 215; p. 708.
- Engine-starting device, Gas-operated-automobile-. H. M. Sprague. No. 1,151,130; Aug. 24; Gaz. vol. 217; p. 1156.
- Engine-starting device, Internal-combustion-. H. B. Anderson. No. 1,145,655; July 6; Gaz. vol. 216; p. 238.
- Engine-starting device, Internal-combustion-. F. Balassa. No. 1,136,394; Apr. 20; Gaz. vol. 213; p. 902.
- Engine-starting device, Internal-combustion-. O. Brisbois. No. 1,140,331; May 18; Gaz. vol. 214; p. 991.
- Engine-starting device, Internal-combustion-. P. Daimler and M. Friz. No. 1,136,512; Apr. 20; Gaz. vol. 213; p. 944.
- Engine-starting device, Internal-combustion-. H. W. Hamilton. No. 1,149,132; Aug. 3; Gaz. vol. 217; p. 226.
- Engine-starting device, Internal-combustion-. W. D. Lutz. No. 1,136,688; Apr. 20; Gaz. vol. 213; p. 1005.
- Engine-starting device, Internal-combustion-. T. J. McCarthy. No. 1,149,661; Aug. 10; Gaz. vol. 217; p. 525.
- Engine-starting device, Internal-combustion-. D. D. Miles, Jr. No. 1,160,521; Nov. 16; Gaz. vol. 220; p. 827.
- Engine-starting device, Internal-combustion-. F. Morgan. No. 1,142,193; June 8; Gaz. vol. 215; p. 426.
- Engine-starting device, Internal-combustion-. W. J. Perkins. No. 1,145,435; July 6; Gaz. vol. 216; p. 160.
- Engine-starting device, Internal-combustion-. A. Peter. No. 1,126,072; Jan. 26; Gaz. vol. 210; p. 1128.
- Engine-starting device, Internal-combustion-. P. Povlotzky. No. 1,156,173; Oct. 12; Gaz. vol. 219; p. 320.
- Engine-starting device, Internal-combustion-. M. P. Ryder. No. 1,166,084; Dec. 28; Gaz. vol. 221; p. 1294.
- Engine-starting device, Internal-combustion-. B. Swan. No. 1,148,635; Aug. 3; Gaz. vol. 217; p. 54.
- Engine-starting device, Internal-combustion-. L. C. Van Riper. No. 1,129,146; Feb. 23; Gaz. vol. 211; p. 994.
- Engine-starting device, Multicylinder-internal-combustion-. K. Feilner. No. 1,127,218; Feb. 2; Gaz. vol. 211; p. 195.
- Engine-starting gearing, Internal-combustion-. D. Flanagan. No. 1,145,475; July 6; Gaz. vol. 216; p. 176.
- Engine-starting ignition system, Internal-combustion-. O. Heins. No. 1,150,032; Aug. 17; Gaz. vol. 217; p. 717.
- Engine-starting means, J. F. Taten. No. 1,146,906; July 20; Gaz. vol. 216; p. 715.
- Engine-starting mechanism, W. H. Bunch. No. 1,150,742; Aug. 17; Gaz. vol. 217; p. 966.
- Engine-starting mechanism, Explosion-. A. I. Clark. No. 1,165,849; Dec. 28; Gaz. vol. 221; p. 1212.
- Engine-starting mechanism, Explosive-. L. C. Van Riper. No. 1,129,252; Feb. 23; Gaz. vol. 211; p. 1030.
- Engine-starting mechanism, Internal-combustion-. G. C. Davison and J. W. Anderson. No. 1,157,849; Oct. 26; Gaz. vol. 219; p. 999.
- Engine-starting mechanism, Internal-combustion-. A. Loomis. No. 1,139,783; May 18; Gaz. vol. 214; p. 798.
- Engine-steering attachment, Traction-. E. Johnson. No. 1,131,523; Mar. 9; Gaz. vol. 212; p. 617.
- Engine-steering wheel, Traction-. G. W. Price. No. 1,151,713; Aug. 31; Gaz. vol. 217; p. 1401.
- Engine-stop, G. H. McFeaters. No. 1,140,694; May 25; Gaz. vol. 214; p. 1152.
- Engine-stopping device, L. Wilt. No. 1,131,193; Mar. 9; Gaz. vol. 212; p. 503.
- Engine-support, C. Wilber. No. 1,127,708; Feb. 9; Gaz. vol. 211; p. 404.
- Engine-tender platform, H. T. Krakau. No. 1,144,713; June 29; Gaz. vol. 215; p. 1395.
- Engine-throttling apparatus, Marine-. O. J. McGowan. No. 1,155,669; Oct. 5; Gaz. vol. 219; p. 120.
- Engine vaporizer, Internal-combustion-. H. S. Griesbach. No. 1,142,090; June 8; Gaz. vol. 215; p. 390.
- Engine vaporizer, Internal-combustion-. H. E. Whiting. No. 1,130,228; Mar. 2; Gaz. vol. 212; p. 134.
- Engine vaporizing-chambers, Ignition device for explosive-. W. C. and S. Pollock. No. 1,165,020; Dec. 21; Gaz. vol. 221; p. 884.
- Engine with rotating piston, P. Conrady. No. 1,136,409; Apr. 20; Gaz. vol. 213; p. 907.
- Engine working cylinder, Internal-combustion-. E. Daiber and P. A. Ritter. No. 1,159,832; Nov. 9; Gaz. vol. 220; p. 533.
- Engines, Additional air-supply for explosive-. N. Isachson. No. 1,130,293; Mar. 2; Gaz. vol. 212; p. 157.
- Engines, Adjustable coupling for traction-. J. Schuler. No. 1,128,259; Feb. 9; Gaz. vol. 211; p. 599.
- Engines, Adjustable regulating means for explosion and internal-combustion-. J. A. Weyland. No. 1,129,616; Feb. 23; Gaz. vol. 211; p. 1159.
- Engines, Admission and exhaust mechanism for. R. Gullery. No. 1,134,124; Apr. 6; Gaz. vol. 213; p. 14.
- Engines, Air-cooling system for internal-combustion-. A. M. Chase. No. 1,163,129; Dec. 7; Gaz. vol. 221; p. 137.
- Engines, Air-cooling system for internal-combustion-. J. Wilkinson. No. 1,159,633; Nov. 9; Gaz. vol. 220; p. 460.
- Engines, Air-controlled device for gas-. W. A. Root. No. 1,143,280; June 15; Gaz. vol. 215; p. 829.
- Engines, Air-heater for gasoline-. J. O. Snyder. No. 1,157,189; Oct. 19; Gaz. vol. 219; p. 706.
- Engines, Air-heating device for explosive-. E. Thornton and G. M. Wheeler. No. 1,131,016; Mar. 9; Gaz. vol. 212; p. 442.
- Engines, Air-heating device for internal-combustion-. E. D. Strange and M. M. Heffren. No. 1,143,331; June 15; Gaz. vol. 215; p. 864.
- Engines, Air-inlet valve for intake-manifolds of internal-combustion-. F. Jackson. No. 1,151,105; Aug. 24; Gaz. vol. 217; p. 1147.
- Engines and other stuff-working machines, Attachment for beating-. J. A. Noble. No. 1,165,118; Dec. 21; Gaz. vol. 221; p. 920.
- Engines, Apparatus for feeding fuel to oil-. C. W. Baker and J. J. Swan. No. 1,149,323; Aug. 10; Gaz. vol. 217; p. 401.
- Engines, Apparatus for heating the combustible charges of internal-combustion-. A. J. K. Wilesmith. No. 1,151,503; Aug. 24; Gaz. vol. 217; p. 1283.
- Engines, Appliance for indicating explosive pressures in gas-. O. P. Loomis. No. 1,143,639; June 22; Gaz. vol. 215; p. 995.
- Engines, Automatic fuel-feeder for internal-combustion-. C. D. Miller. No. 1,147,336; July 20; Gaz. vol. 216; p. 865.
- Engines, Automatically-controlled auxiliary air-inlet device for internal-combustion-. W. G. Morris. No. 1,160,640; Nov. 16; Gaz. vol. 220; p. 871.
- Engines, Auxiliary air-inlet device for internal-combustion-. A. B. Conrad. No. 1,164,576; Dec. 14; Gaz. vol. 221; p. 688.
- Engines, Auxiliary air-inlet for. L. H. Kirby. No. 1,134,276; Apr. 6; Gaz. vol. 213; p. 71.
- Engines, Balancing device for reciprocating. F. W. Lancaster. No. 1,164,367; Dec. 14; Gaz. vol. 221; p. 617.
- Engines, Balancing means for reciprocating. F. W. Lancaster. No. 1,163,832; Dec. 14; Gaz. vol. 221; p. 431.
- Engines, Bearing-wheel for traction-. O. C. Houghton. No. 1,137,974; May 4; Gaz. vol. 214; p. 88.
- Engines, Belt shifter and guide for traction-. H. F. Dodrick. No. 1,146,055; July 13; Gaz. vol. 216; p. 399.
- Engines, Boiler-levelev for traction-. J. Moon. No. 1,129,221; Feb. 23; Gaz. vol. 211; p. 1019.
- Engines, Breather for internal-combustion-. L. H. Cobb. No. 1,124,297; Jan. 12; Gaz. vol. 210; p. 425.
- Engines, Charge-forming device for explosive-. B. W. Scott and C. J. Schlemer. No. 1,149,296; Aug. 10; Gaz. vol. 217; p. 392.
- Engines, Charge-forming device for internal-combustion-. J. H. Shumaker. No. 1,131,742; Mar. 16; Gaz. vol. 212; p. 728.
- Engines, Charge-forming device for internal-combustion-. J. H. Shumaker. No. 1,138,581; May 4; Gaz. vol. 214; p. 299.
- Engines, Charge-heating attachment for explosive-. W. H. Russell. No. 1,153,448; Sept. 14; Gaz. vol. 218; p. 422.
- Engines, Circulating system for internal-combustion-. C. F. Johnson. No. 1,145,995; July 13; Gaz. vol. 216; p. 376.
- Engines, Combined fuel and cooling system for vehicle-. F. Honnold. No. 1,156,780; Oct. 12; Gaz. vol. 219; p. 531.
- Engines, Compression-controlling mechanism for. B. V. Nordberg. No. 1,157,030; Oct. 19; Gaz. vol. 219; p. 651.
- Engines, Compression-space annex for internal-combustion-. D. T. Brownlee, F. W. Spacke, and J. D. Lowe. No. 1,134,967; Apr. 6; Gaz. vol. 213; p. 315.
- Engines, Controlling device for the electric ignition systems of internal-combustion-. F. H. Royce. No. 1,163,692; Dec. 14; Gaz. vol. 221; p. 380.
- Engines, Controlling mechanism for reversing-. W. W. McBane. No. 1,130,993; Mar. 9; Gaz. vol. 212; p. 434.
- Engines, Cooling device for the water circulation of automobile-. A. P. Wolfe. No. 1,141,511; June 1; Gaz. vol. 215; p. 151.
- Engines, Cooling internal-combustion-. J. Gunther. No. 1,124,424; Jan. 12; Gaz. vol. 210; p. 469.
- Engines, Coordinating actuating means for magnetos and igniters of internal-combustion-. T. C. Menges. No. 1,155,500; Oct. 5; Gaz. vol. 219; p. 62.
- Engines, Crank connection for. R. S. Moore and J. L. Simmons. No. 1,134,545; Apr. 6; Gaz. vol. 213; p. 168.
- Engines, Crank-shaft mounting for internal-combustion-. T. J. Sturtevant. No. 1,164,674; Dec. 21; Gaz. vol. 221; p. 764.
- Engines, Cross-head guide or box for. J. P. Golden. No. 1,164,500; Dec. 14; Gaz. vol. 221; p. 663.
- Engines, Current-generator and igniter for internal-combustion-. E. Podlesak. (Reissue.) No. 13,878; Feb. 9; Gaz. vol. 211; p. 607.
- Engines, Cylinder and piston construction for internal-combustion-. C. M. Blanchard. No. 1,124,839; Jan. 12; Gaz. vol. 210; p. 620.
- Engines, Cylinder construction for internal-combustion-. C. M. Blanchard. No. 1,124,840; Jan. 12; Gaz. vol. 210; p. 620.
- Engines, Cylinder construction for multiple-piston. K. Steinbecker. No. 1,157,335; Oct. 19; Gaz. vol. 219; p. 758.

Alphabetical list of inventions—Continued.

- Engines, Decarbonizing internal-combustion. W. E. Ahern. No. 1,160,682; Nov. 16; Gaz. vol. 220; p. 888.
- Engines, Device for heating charges for explosive. F. A. Beasley. No. 1,125,446; Jan. 19; Gaz. vol. 210; p. 872.
- Engines, Device for the injection of water at high pressure into the air-reheaters of torpedo. E. Schneider. No. 1,144,385; June 29; Gaz. vol. 215; p. 1283.
- Engines, Differential gearing for traction. C. H. Weitlauf. No. 1,148,418; July 27; Gaz. vol. 216; p. 1274.
- Engines, Distributing device for four-stroke-cycle internal-combustion. L. Chevance. No. 1,124,861; Jan. 12; Gaz. vol. 210; p. 628.
- Engines, Drive-wheel for traction. L. H. Wellensick. No. 1,126,600; Jan. 26; Gaz. vol. 210; p. 1319.
- Engines, Economizer for internal-combustion. A. W. Wharton. No. 1,128,830; Feb. 16; Gaz. vol. 211; p. 846.
- Engines, Electric ignition apparatus for internal-combustion. G. Cowcher. No. 1,126,407; Jan. 26; Gaz. vol. 210; p. 1247.
- Engines, Electric starter for automobile. A. W. Smith. No. 1,144,438; June 29; Gaz. vol. 215; p. 1301.
- Engines, Electric starter for internal-combustion. B. Brooks and W. Holt. No. 1,151,439; Aug. 24; Gaz. vol. 217; p. 1259.
- Engines, Electric starting device for internal-combustion. L. Renault. No. 1,162,309; Nov. 30; Gaz. vol. 220; p. 1550.
- Engines, Emergency mechanism for internal-combustion. W. E. Ver Planck. No. 1,166,281; Dec. 28; Gaz. vol. 221; p. 1369.
- Engines, End-play device for rotary. R. W. Bott. No. 1,153,888; Sept. 21; Gaz. vol. 218; p. 613.
- Engines, Electrical arrangement for the control of the speed of sea. S. Rumolino. No. 1,134,490; Apr. 6; Gaz. vol. 213; p. 149.
- Engines, Electrical equipment for internal-combustion. V. G. Apple. No. 1,132,297; Mar. 16; Gaz. vol. 212; p. 932.
- Engines, Electrical equipment for internal-combustion. V. G. Apple. No. 1,142,791; June 15; Gaz. vol. 215; p. 674.
- Engines, Electrical ignition system for internal-combustion. O. Heins and C. M. Wild. No. 1,130,729; Mar. 9; Gaz. vol. 212; p. 343.
- Engines, Electrical ignition system for internal-combustion. G. Honold. No. 1,139,121; May 11; Gaz. vol. 214; p. 532.
- Engines, Electrically-controlled vaporizer for internal-combustion. W. F. Vose. No. 1,150,562; Aug. 17; Gaz. vol. 217; p. 905.
- Engines, Exhaust for internal-combustion. J. M. Underwood. No. 1,156,447; Oct. 12; Gaz. vol. 219; p. 416.
- Engines, Exhaust-silencer for use in connection with internal-combustion. H. T. Hutton. No. 1,162,064; Nov. 30; Gaz. vol. 220; p. 1463.
- Engines, Feed mechanism for carding. J. C. Potter. No. 1,126,858; Feb. 2; Gaz. vol. 211; p. 69.
- Engines, Fire-prevention means for internal-combustion. F. A. Shaw. No. 1,165,914; Dec. 28; Gaz. vol. 221; p. 1235.
- Engines, Fly-wheel for explosion. W. A. Dashwood. No. 1,134,110; Apr. 6; Gaz. vol. 213; p. 9.
- Engines, Foot-accelerator for Ford automobile. G. S. Gunderson. No. 1,157,099; Oct. 19; Gaz. vol. 219; p. 675.
- Engines for the utilization of waste heat, Controlling means for. J. H. Missong. No. 1,138,774; May 11; Gaz. vol. 214; p. 407.
- Engines, Forming and igniting explosive charges in internal-combustion. G. F. Wheeler. No. 1,160,480; Nov. 16; Gaz. vol. 220; p. 813.
- Engines, Fuel-atomizer for internal-combustion. T. C. Crouch. No. 1,142,674; June 8; Gaz. vol. 215; p. 593.
- Engines, Fuel connection for internal-combustion. P. M. Orlopp. No. 1,159,985; Nov. 9; Gaz. vol. 220; p. 587.
- Engines, Fuel economizer and decarbonizer for internal-combustion. J. Adams. No. 1,138,828; May 11; Gaz. vol. 214; p. 427.
- Engines, Fuel-economizer for internal-combustion. O. Glover. No. 1,165,871; Dec. 28; Gaz. vol. 221; p. 1221.
- Engines, Fuel-economizer for internal-combustion. H. A. Stone. No. 1,139,081; May 11; Gaz. vol. 214; p. 517.
- Engines, Fuel-feeding device for internal-combustion. W. Jay. No. 1,153,089; Sept. 7; Gaz. vol. 218; p. 257.
- Engines, Fuel-feeding means for automobile. W. Jay. No. 1,134,457; Apr. 6; Gaz. vol. 213; p. 136.
- Engines, Fuel-gasifier for internal-combustion. H. F. Leissner. No. 1,136,818; Apr. 20; Gaz. vol. 213; p. 1052.
- Engines, Fuel-igniting means of internal-combustion. H. Junkers. No. 1,162,173; Nov. 30; Gaz. vol. 220; p. 1502.
- Engines, Fuel-injector for internal-combustion. H. F. Shepherd. No. 1,164,022; Dec. 14; Gaz. vol. 221; p. 496.
- Engines, Fuel-mixing device for internal-combustion. C. B. Hatfield. No. 1,130,278; Mar. 2; Gaz. vol. 212; p. 152.
- Engines, Fuel-mixing device for internal-combustion. C. B. Hatfield. No. 1,131,371; Mar. 9; Gaz. vol. 212; p. 564.
- Engines, Fuel-mixing device for internal-combustion. W. F. and R. L. Jenkins. No. 1,132,351; Mar. 16; Gaz. vol. 212; p. 950.
- Engines, Fuel-pulverizer for internal-combustion. B. Krämer. No. 1,142,440; June 8; Gaz. vol. 215; p. 515.
- Engines, Fuel-supply apparatus for internal-combustion. F. Weinberg. No. 1,153,660; Sept. 14; Gaz. vol. 218; p. 496.
- Engines, Fuel-supply system for. O. Lasche. No. 1,154,994; Sept. 28; Gaz. vol. 218; p. 1018.
- Engines, Gas-producer for explosive. C. C. Butler. No. 1,152,003; Aug. 31; Gaz. vol. 217; p. 1502.
- Engines, Gaseous-fuel heater and mixer for internal-combustion. T. H. Haberkorn. No. 1,143,902; June 22; Gaz. vol. 215; p. 1084.
- Engines, Governing and throttling device for internal-combustion. A. H. Ziegler. No. 1,142,219; June 8; Gaz. vol. 215; p. 435.
- Engines, Governing mechanism for centrifugal blowing. O. Banner. No. 1,160,562; Nov. 16; Gaz. vol. 220; p. 842.
- Engines having irregular order of ignition, Ignition for multiple-cylinder combustion. G. Honold. No. 1,124,022; Jan. 5; Gaz. vol. 210; p. 279.
- Engines, Heat-retaining system for. W. J. Hagman. No. 1,128,133; Feb. 9; Gaz. vol. 211; p. 556.
- Engines, Heating system for. J. A. Sommers. No. 1,159,726; Nov. 9; Gaz. vol. 220; p. 494.
- Engines, Heavy-oil-carbureting system for internal-combustion. T. E. Halliday. No. 1,137,057; Apr. 27; Gaz. vol. 213; p. 1174.
- Engines, Hitching device for traction. W. L. Mast. No. 1,130,311; Mar. 2; Gaz. vol. 212; p. 163.
- Engines, Holder for starting-cranks of. V. A. Johnson. No. 1,127,257; Feb. 2; Gaz. vol. 211; p. 209.
- Engines, Hot-air-supply means for internal-combustion. W. J. Bracken. No. 1,142,871; June 15; Gaz. vol. 215; p. 701.
- Engines, Ignition apparatus for explosion. E. L. Parris, Jr. No. 1,134,058; Mar. 30; Gaz. vol. 212; p. 1645.
- Engines, Ignition apparatus for internal-combustion. I. J. Daily. No. 1,125,971; Jan. 26; Gaz. vol. 210; p. 1090.
- Engines, Ignition apparatus for internal-combustion. L. C. Daucher. No. 1,160,388; Nov. 16; Gaz. vol. 220; p. 780.
- Engines, Ignition apparatus for starting internal-combustion. G. Unterberg. No. 1,132,987; Mar. 23; Gaz. vol. 212; p. 1233.
- Engines, Ignition system for internal-combustion. W. W. Dean. No. 1,145,232; July 6; Gaz. vol. 216; p. 90.
- Engines, Ignition-timer for gas. J. T. Pedersen. No. 1,127,805; Feb. 9; Gaz. vol. 211; p. 442.
- Engines, Indicating device for internal-combustion. F. Greiner. No. 1,165,501; Dec. 28; Gaz. vol. 221; p. 1091.
- Engines, Injection of liquid fuel in internal-combustion. J. McKechnie. No. 1,147,806; July 27; Gaz. vol. 216; p. 1056.
- Engines, Inspirator for internal-combustion. H. E. Dunham. No. 1,143,258; June 15; Gaz. vol. 215; p. 839.
- Engines, Jordan shaft for paper-stock-refining. A. C. Pierce and G. C. Kaufman. No. 1,158,277; Oct. 26; Gaz. vol. 219; p. 1150.
- Engines, Knife-bar for beating. H. R. Simonds. No. 1,149,791; Aug. 10; Gaz. vol. 217; p. 569.
- Engines, Liquid-supply system for explosive. W. Jay. No. 1,132,273; Mar. 16; Gaz. vol. 212; p. 923.
- Engines, Lubricating. W. S. Peavey. No. 1,156,431; Oct. 12; Gaz. vol. 219; p. 410.
- Engines, Lubrication of internal-combustion. J. J. Hogan. No. 1,157,308; Oct. 19; Gaz. vol. 219; p. 749.
- Engines, Manifold for internal-combustion. W. Knudsen. No. 1,124,916; Jan. 12; Gaz. vol. 210; p. 646.
- Engines, Means for controlling the injection-air of combustion. J. Müller. No. 1,126,831; Feb. 2; Gaz. vol. 211; p. 60.
- Engines, Means for delivering oil to oil-burning. R. M. Hvid. No. 1,134,858; Apr. 6; Gaz. vol. 213; p. 279.
- Engines, Means for packing the working parts of rotary. K. P. zu Löwenstein. No. 1,133,982; Mar. 30; Gaz. vol. 212; p. 1619.
- Engines, Means for reversing two-cycle. K. A. Norrman. No. 1,148,042; July 27; Gaz. vol. 216; p. 1141.
- Engines, Means for starting internal-combustion. W. F. and C. P. Groll. No. 1,149,978; Aug. 10; Gaz. vol. 217; p. 638.
- Engines, Means for withdrawing steam from steam. C. A. Hartung. No. 1,155,811; Oct. 5; Gaz. vol. 219; p. 170.
- Engines, Mechanical starter for internal-combustion. W. W. Leach. No. 1,165,008; Dec. 21; Gaz. vol. 221; p. 880.
- Engines, Mechanical starter for internal-combustion. W. S. Pattison. No. 1,127,804; Feb. 9; Gaz. vol. 211; p. 441.
- Engines, Mechanical starting device for explosion. M. P. Mitchell. No. 1,141,198; June 1; Gaz. vol. 215; p. 38.
- Engines, Mechanical starting mechanism for internal-combustion. J. Severa. No. 1,155,687; Oct. 5; Gaz. vol. 219; p. 126.

Alphabetical list of inventions—Continued.

- Engines, Mechanical starting mechanism for internal-combustion. N. T. Woods. No. 1,127,710; Feb. 9; Gaz. vol. 211; p. 405.
- Engines, Method of and apparatus for delivering liquid fuel to oil-. C. W. Baker. No. 1,149,321; Aug. 10; Gaz. vol. 217; p. 401.
- Engines, Method of and apparatus for feeding liquid fuel to internal-combustion. C. W. Baker. No. 1,149,322; Aug. 10; Gaz. vol. 217; p. 401.
- Engines, Method of and means for feeding fluid combustible to internal-combustion. K. Steinbecker. No. 1,154,816; Sept. 28; Gaz. vol. 218; p. 958.
- Engines, Motor mechanism for reversing fluid-operated. G. W. Coyle. No. 1,145,123; July 6; Gaz. vol. 216; p. 53.
- Engines, Nozzle-area and draft regulator for locomotive. A. Lieb. No. 1,137,067; Apr. 27; Gaz. vol. 213; p. 1178.
- Engines off a dead-center, Mechanism for removing. G. C. Brittain. No. 1,140,355; May 25; Gaz. vol. 214; p. 1033.
- Engines, Oil-feed for internal-combustion. E. Teeter. No. 1,137,926; May 4; Gaz. vol. 214; p. 71.
- Engines, Oil-indicator for internal-combustion. H. N. Speer. No. 1,140,080; May 18; Gaz. vol. 214; p. 905.
- Engines, Oil-injection device for oil-. R. M. Hvid. No. 1,134,857; Apr. 6; Gaz. vol. 213; p. 278.
- Engines, Oil-separator for steam-. N. M. Lower. No. 1,144,331; June 22; Gaz. vol. 215; p. 1236.
- Engines, Oil-vaporizer for combustion-. A. Winton. No. 1,146,679; July 13; Gaz. vol. 216; p. 617.
- Engines, Operating combustion-. H. H. Hein. No. 1,132,581; Mar. 23; Gaz. vol. 212; p. 1082.
- Engines, Operating four-cycle explosive-. B. Zinke. No. 1,147,474; July 20; Gaz. vol. 216; p. 915.
- Engines, Operating internal-combustion. J. W. Pitts. No. 1,136,715; Apr. 20; Gaz. vol. 213; p. 1016.
- Engines or transmission mechanisms on motor-vehicles. Mounting. F. H. Royce. No. 1,161,531; Nov. 23; Gaz. vol. 220; p. 1233.
- Engines, Packing-ring for internal-combustion. J. A. Chopska. No. 1,127,962; Feb. 9; Gaz. vol. 211; p. 497.
- Engines, Pilot attachment for traction-. R. B. Hart-sough. No. 1,138,590; May 4; Gaz. vol. 214; p. 302.
- Engines, Pneumatic starter for internal-combustion. G. A. Gemmer. No. 1,129,661; Feb. 23; Gaz. vol. 211; p. 1172.
- Engines, Pressure-cylinder for. H. L. Hurd. No. 1,145,065; July 6; Gaz. vol. 216; p. 33.
- Engines, Pulverizer for oil-. W. H. Frost. No. 1,157,305; Oct. 19; Gaz. vol. 219; p. 748.
- Engines, Push-rod for. J. W. Nilson. No. 1,161,406; Nov. 23; Gaz. vol. 220; p. 1190.
- Engines, Regulator for mixed-pressure. O. Banner. No. 1,148,738; Aug. 3; Gaz. vol. 217; p. 92.
- Engines, Removable cylinder-lining for explosive and other. W. A. Leimer. No. 1,127,783; Feb. 9; Gaz. vol. 211; p. 432.
- Engines, Roll for beating-. G. Miller. No. 1,138,393; May 4; Gaz. vol. 214; p. 237.
- Engines, Safety-crank for explosive-. C. T. Williams. (Reissue). No. 13,862; Jan. 5; Gaz. vol. 210; p. 364.
- Engines, Self-starter for explosive-. A. A. Grose. No. 1,144,410; June 29; Gaz. vol. 215; p. 1291.
- Engines, Self-starter for internal-combustion. C. A. Place. No. 1,137,788; May 4; Gaz. vol. 214; p. 23.
- Engines, Single-spark apparatus for internal-combustion. E. W. Stevens. No. 1,128,383; Feb. 16; Gaz. vol. 211; p. 690.
- Engines, Spark-plug for internal-combustion. E. Bauer. No. 1,127,390; Feb. 9; Gaz. vol. 211; p. 293.
- Engines, Speed-changing device for. V. E. McMullen. No. 1,144,909; June 29; Gaz. vol. 215; p. 1462.
- Engines, Starting mechanism for explosive-. S. A. Strickland. No. 1,140,416; May 25; Gaz. vol. 214; p. 1056.
- Engines, Starting mechanism for high-compression. B. Krämer. No. 1,131,387; Mar. 9; Gaz. vol. 212; p. 570.
- Engines, Steam generator and intake for internal-combustion. J. J. Riley. No. 1,162,807; Dec. 7; Gaz. vol. 221; p. 26.
- Engines, Steam-supply system for a plurality of. C. B. Weston. No. 1,161,429; Nov. 23; Gaz. vol. 220; p. 1198.
- Engines, Stroke-adjuster for direct-acting. R. W. Allerton. No. 1,142,789; June 15; Gaz. vol. 215; p. 673.
- Engines, Support for vehicle. H. F. Knecht. No. 1,145,070; July 6; Gaz. vol. 216; p. 35.
- Engines, Timer for gas-. E. Stephens. No. 1,125,600; Jan. 19; Gaz. vol. 210; p. 925.
- Engines, Timing device for explosion-. F. H. Lansdell. No. 1,165,610; Dec. 28; Gaz. vol. 221; p. 1129.
- Engines, Traction appliance for. C. C. Hofer. No. 1,163,822; Dec. 14; Gaz. vol. 221; p. 428.
- Engines, Vapor-heater for internal-combustion. F. I. Hitchcock. No. 1,135,113; Apr. 13; Gaz. vol. 213; p. 412.
- Engines, Vaporizer and carburetor for gas-. R. U. Wolfe. No. 1,127,709; Feb. 9; Gaz. vol. 211; p. 405.
- Engines, Vaporizer for internal-combustion. G. J. Boutet. No. 1,140,944; May 25; Gaz. vol. 214; p. 1242.
- Engines, Vaporizer for internal-combustion. D. Roberts. No. 1,124,061; Jan. 5; Gaz. vol. 210; p. 293.
- Engines, Vaporizer for use with internal-combustion. T. E. Halliday. No. 1,157,101; Oct. 19; Gaz. vol. 219; p. 675.
- Engines, Water-circulating system for explosive-. W. B. Pyle. No. 1,142,055; June 8; Gaz. vol. 215; p. 377.
- Engines, Wiring mechanism for automobile. I. H. Sare. No. 1,162,106; Nov. 30; Gaz. vol. 220; p. 1479.
- Engineer's tool-box. R. B. Greenway. No. 1,147,086; July 20; Gaz. vol. 216; p. 779.
- Engraving-machine. G. Hamilton. No. 1,153,550; Sept. 14; Gaz. vol. 218; p. 460.
- Engraving-machine. F. C. F. Hirschmann. No. 1,131,379; Mar. 9; Gaz. vol. 212; p. 566.
- Ensilage and silo cutters, Self-feeder for. P. Klumb. No. 1,129,992; Mar. 2; Gaz. vol. 212; p. 54.
- Ensilage-cutter. C. F. Haldeman. No. 1,129,349; Feb. 23; Gaz. vol. 211; p. 1064.
- Ensilage-cutter. F. N. G. Kranich. No. 1,137,334; Apr. 27; Gaz. vol. 213; p. 1276.
- Ensilage-cutting machines, Feeding device for. E. H. Scott. No. 1,136,978; Apr. 27; Gaz. vol. 213; p. 1144.
- Ensilage-machines, Friction-clutch for. N. M. Brown. No. 1,128,942; Feb. 16; Gaz. vol. 211; p. 887.
- Ensilage-packer. F. M. Howell. No. 1,123,879; Jan. 5; Gaz. vol. 210; p. 232.
- Ensilage-packing device. U. J. Bocock. No. 1,148,569; Aug. 3; Gaz. vol. 217; p. 31.
- Entomological mount. N. L. G., and C. F. McGlashan. No. 1,151,280; Aug. 24; Gaz. vol. 217; p. 1208.
- Entrainment-tester. H. S. Truscott. No. 1,142,287; June 8; Gaz. vol. 215; p. 459.
- Envelop. H. Baer. No. 1,126,341; Jan. 26; Gaz. vol. 210; p. 1225.
- Envelop. I. A. Bean. No. 1,155,198; Sept. 28; Gaz. vol. 218; p. 1090.
- Envelop. L. Beltrami. No. 1,141,603; June 1; Gaz. vol. 215; p. 184.
- Envelop. C. L. Benedict. No. 1,148,433; July 27; Gaz. vol. 216; p. 1279.
- Envelop. E. F. Bergstrom. No. 1,135,429; Apr. 13; Gaz. vol. 213; p. 520.
- Envelop. T. J. Brown. No. 1,141,312; June 1; Gaz. vol. 215; p. 80.
- Envelop. G. Camillieri. No. 1,161,110; Nov. 23; Gaz. vol. 220; p. 1081.
- Envelop. C. H. Chambers. No. 1,125,472; Jan. 19; Gaz. vol. 210; p. 879.
- Envelop. A. W. Clapp. No. 1,125,964; Jan. 26; Gaz. vol. 210; p. 1087.
- Envelop. L. M. Doddridge. No. 1,142,942; June 15; Gaz. vol. 215; p. 727.
- Envelop. A. B. and J. Drygas. No. 1,129,653; Feb. 23; Gaz. vol. 211; p. 1170.
- Envelop. M. S. Elkes. No. 1,135,444; Apr. 13; Gaz. vol. 213; p. 526.
- Envelop. G. P. Fitzsimmons. No. 1,128,862; Feb. 16; Gaz. vol. 211; p. 857.
- Envelop. G. P. Fitzsimmons. No. 1,148,671; Aug. 3; Gaz. vol. 217; p. 68.
- Envelop. H. F. Flint. No. 1,134,075; Mar. 30; Gaz. vol. 212; p. 1651.
- Envelop. A. B. Francis. No. 1,125,683; Jan. 19; Gaz. vol. 210; p. 956.
- Envelop. P. A. Hoffman. No. 1,125,535; Jan. 19; Gaz. vol. 210; p. 901.
- Envelop. B. A. Hopper. No. 1,124,440; Jan. 12; Gaz. vol. 210; p. 476.
- Envelop. E. V. Hudson. No. 1,131,135; Mar. 9; Gaz. vol. 212; p. 483.
- Envelop. F. W. Jacques. No. 1,142,712; June 8; Gaz. vol. 215; p. 606.
- Envelop. O. Katzenberger. No. 1,158,229; Oct. 26; Gaz. vol. 219; p. 1133.
- Envelop. M. Kojima. No. 1,159,686; Nov. 9; Gaz. vol. 220; p. 479.
- Envelop. W. F. Krone. No. 1,150,524; Aug. 17; Gaz. vol. 217; p. 890.
- Envelop. F. X. J. Lacroix and J. E. Roy. No. 1,155,740; Oct. 5; Gaz. vol. 219; p. 144.
- Envelop. J. Logan. No. 1,142,339; June 8; Gaz. vol. 215; p. 477.
- Envelop. J. M. Longerbon. No. 1,165,189; Dec. 21; Gaz. vol. 221; p. 945.
- Envelop. J. A. Lunday. No. 1,164,372; Dec. 14; Gaz. vol. 221; p. 619.
- Envelop. R. A. Merrill. No. 1,142,349; June 8; Gaz. vol. 215; p. 480.
- Envelop. H. G. Piel. No. 1,136,713; Apr. 20; Gaz. vol. 213; p. 1015.
- Envelop. I. L. Rheutan. No. 1,136,614; Apr. 20; Gaz. vol. 213; p. 979.
- Envelop. I. L. Rheutan. No. 1,163,459; Dec. 7; Gaz. vol. 221; p. 253.
- Envelop. E. D. Sanxay. No. 1,131,276; Mar. 9; Gaz. vol. 212; p. 532.
- Envelop. G. W. Shipley. No. 1,135,064; Apr. 13; Gaz. vol. 213; p. 395.
- Envelop. G. W. Swift, Jr. No. 1,151,305; Aug. 24; Gaz. vol. 217; p. 1216.
- Envelop. E. N. Todd. No. 1,123,424; Jan. 5; Gaz. vol. 210; p. 78.

Alphabetical list of inventions—Continued.

- Envelop. F. L. Toupal. No. 1,163,381; Dec. 7; Gaz. vol. 221; p. 226.
- Envelop. E. F. Turner. No. 1,124,677; Jan. 12; Gaz. vol. 210; p. 562.
- Envelop. C. Valenta. No. 1,148,874; Aug. 3; Gaz. vol. 217; p. 138.
- Envelop. L. C. Van Riper. No. 1,127,703; Feb. 9; Gaz. vol. 211; p. 402.
- Envelop. P. H. Waggener. No. 1,155,388; Oct. 5; Gaz. vol. 219; p. 22.
- Envelop. C. C. Wallace. No. 1,126,596; Jan. 26; Gaz. vol. 210; p. 1318.
- Envelop. W. E. Westberg. No. 1,139,003; May 11; Gaz. vol. 214; p. 489.
- Envelop. J. H. Wittmann. No. 1,164,606; Dec. 14; Gaz. vol. 221; p. 698.
- Envelop. Advertising. F. G. Shuman. No. 1,159,719; Nov. 9; Gaz. vol. 220; p. 491.
- Envelop and check. Combined. F. P. D'Arcy. No. 1,126,411; Jan. 26; Gaz. vol. 210; p. 1248.
- Envelop-blank-cutting dies. Centering means for. E. W. Sauerman. No. 1,132,979; Mar. 23; Gaz. vol. 212; p. 1230.
- Envelop-blanks. Forming. W. E. Swift. No. 1,144,950; June 29; Gaz. vol. 215; p. 1475.
- Envelop-blanks. Machine for making perfected. W. H. Banzett. No. 1,123,658; Jan. 5; Gaz. vol. 210; p. 158.
- Envelop blanks. Making window-. W. H. Banzett. No. 1,123,659; Jan. 5; Gaz. vol. 210; p. 158.
- Envelop-delivering apparatus. S. M. Coffman. No. 1,147,375; July 20; Gaz. vol. 216; p. 880.
- Envelop. Double. C. P. Chamberlin and C. T. Fezzey. No. 1,141,688; June 1; Gaz. vol. 215; p. 214.
- Envelop. Double-seal. L. Kittka. No. 1,126,784; Feb. 2; Gaz. vol. 211; p. 43.
- Envelop-fastener. G. W. Boblit. No. 1,123,983; Jan. 5; Gaz. vol. 210; p. 266.
- Envelop-fastener. J. H. Husted. No. 1,150,521; Aug. 17; Gaz. vol. 217; p. 889.
- Envelop-feed device. A. G. Moody. No. 1,127,796; Feb. 9; Gaz. vol. 211; p. 438.
- Envelop-feeding machine. D. G. Saunders, Jr. No. 1,136,171; Apr. 20; Gaz. vol. 213; p. 821.
- Envelop. Filing-. H. L. Loft. No. 1,149,657; Aug. 10; Gaz. vol. 217; p. 523.
- Envelop. Filing-. J. E. Ralph. No. 1,132,972; Mar. 23; Gaz. vol. 212; p. 1227.
- Envelop for phonograph disk records and other filing purposes. Filing-. J. P. Eisenbauer. No. 1,154,297; Sept. 21; Gaz. vol. 218; p. 751.
- Envelop holder and feeder. F. M. Spurr. No. 1,135,067; Apr. 13; Gaz. vol. 213; p. 396.
- Envelop-machine. W. H. Cook. No. 1,142,402; June 8; Gaz. vol. 215; p. 501.
- Envelop-machine. F. L. Schmidt. No. 1,152,555; Sept. 7; Gaz. vol. 218; p. 65.
- Envelop-machine. E. G. Staude. No. 1,147,762; July 27; Gaz. vol. 216; p. 1042.
- Envelop machine. Patch-. M. Berkowitz. No. 1,161,829; Nov. 30; Gaz. vol. 220; p. 1381.
- Envelop. Mailing-. H. L. Greve. No. 1,160,280; Nov. 16; Gaz. vol. 220; p. 743.
- Envelop. Mailing-. W. H. Hart, Jr. No. 1,160,600; Nov. 16; Gaz. vol. 220; p. 856.
- Envelop-making machine. M. Dünnebler and A. Winkler. No. 1,153,293; Sept. 14; Gaz. vol. 218; p. 365.
- Envelop-making machine. E. F. Sheldon. No. 1,126,305; Jan. 26; Gaz. vol. 210; p. 1211.
- Envelop-making machine. E. G. Staude. No. 1,144,506; June 29; Gaz. vol. 215; p. 1323.
- Envelop. Merchandise-. W. E. Swift. No. 1,144,951; June 29; Gaz. vol. 215; p. 1475.
- Envelop. Merchandise-. W. E. Swift. No. 1,155,016; Sept. 28; Gaz. vol. 218; p. 1026.
- Envelop. Money-transmitting. W. P. Faulkner. No. 1,136,948; Apr. 27; Gaz. vol. 213; p. 1134.
- Envelop-opener. A. Marks. No. 1,126,542; Jan. 26; Gaz. vol. 210; p. 1298.
- Envelop-opener. E. L. Perry. No. 1,139,572; May 18; Gaz. vol. 214; p. 724.
- Envelop-opener. H. D. Taylor. No. 1,137,726; Apr. 27; Gaz. vol. 213; p. 1408.
- Envelop-opening device. E. Prutzman. No. 1,141,142; June 1; Gaz. vol. 215; p. 18.
- Envelop-opening machine. E. J. Scott. No. 1,143,919; June 22; Gaz. vol. 215; p. 1089.
- Envelop-opening machine. H. D. Taylor. No. 1,137,552; Apr. 27; Gaz. vol. 213; p. 1351.
- Envelop-opening machine. H. D. Taylor. No. 1,137,678; Apr. 27; Gaz. vol. 213; p. 1392.
- Envelop-opening machine. H. D. Taylor. No. 1,150,905; Aug. 24; Gaz. vol. 217; p. 1079.
- Envelop-opening machine. H. D. Taylor. No. 1,158,583; Nov. 2; Gaz. vol. 220; p. 61.
- Envelop or container. Metal-foil. A. Bryner. No. 1,143,609; June 22; Gaz. vol. 215; p. 985.
- Envelop or letter opener. H. A. Guderjahn. No. 1,148,896; Aug. 3; Gaz. vol. 217; p. 146.
- Envelop or the like. J. L. O'Brien. No. 1,136,163; Apr. 20; Gaz. vol. 213; p. 818.
- Envelop. Parcel-post. M. R. Mace. No. 1,139,552; May 18; Gaz. vol. 214; p. 717.
- Envelop. Parcel-post. H. A. Truscott. No. 1,154,276; Sept. 21; Gaz. vol. 218; p. 745.
- Envelop. Parcel-post. H. A. Truscott. No. 1,156,507; Oct. 12; Gaz. vol. 219; p. 438.
- Envelop. Return-reply. H. A. Steinke. No. 1,145,935; July 13; Gaz. vol. 216; p. 355.
- Envelop. Safety-. J. S. Alden. No. 1,152,364; Aug. 31; Gaz. vol. 217; p. 1629.
- Envelop. Safety-. J. K. Dalton. No. 1,148,220; July 27; Gaz. vol. 216; p. 1205.
- Envelop. Safety-. E. Heitmann. No. 1,157,983; Oct. 26; Gaz. vol. 219; p. 1047.
- Envelop. Safety-. S. Hurwitz. No. 1,129,096; Feb. 23; Gaz. vol. 211; p. 976.
- Envelop. Safety-. T. O. Huston. No. 1,140,595; May 25; Gaz. vol. 214; p. 1120.
- Envelop. Safety-. E. S. Jones. No. 1,126,675; Jan. 26; Gaz. vol. 210; p. 1346.
- Envelop. Safety-. F. R. Larson. No. 1,142,444; June 8; Gaz. vol. 215; p. 516.
- Envelop. Safety-. C. Miller. No. 1,153,940; Sept. 21; Gaz. vol. 218; p. 630.
- Envelop. Safety-. W. J. Norris. No. 1,154,878; Sept. 28; Gaz. vol. 218; p. 978.
- Envelop. Safety-. J. D. and W. O'Donoghue and M. A. Trigg. No. 1,126,557; Jan. 26; Gaz. vol. 210; p. 1304.
- Envelop. Safety-. G. A. Russell. No. 1,150,888; Aug. 24; Gaz. vol. 217; p. 1074.
- Envelop. Safety-. J. E. Swanson. No. 1,124,358; Jan. 12; Gaz. vol. 210; p. 447.
- Envelop. Safety-. R. V. and J. W. Tuttle. No. 1,136,850; Apr. 20; Gaz. vol. 213; p. 1063.
- Envelop. Safety and sanitary. H. H. Palmer. No. 1,142,615; June 8; Gaz. vol. 215; p. 573.
- Envelop. shipping-tag, and index-card. Combined. R. R. Simpson and J. S. Wilmoth. No. 1,157,432; Oct. 19; Gaz. vol. 219; p. 794.
- Envelops. cards, or the like. Packer for. S. L. Long. No. 1,129,107; Feb. 23; Gaz. vol. 211; p. 980.
- Envelops. Machine for attaching flap-securing means to. W. E. Swift. No. 1,131,805; Mar. 16; Gaz. vol. 212; p. 753.
- Envelops. Making. N. E. Funk. No. 1,135,786; Apr. 13; Gaz. vol. 213; p. 645.
- Equalizing-wheel for chain or rope drives. H. S. Pierce. No. 1,148,190; July 27; Gaz. vol. 216; p. 1195.
- Eraser. Adjustable. J. J. Ferrari. No. 1,136,592; Apr. 20; Gaz. vol. 213; p. 972.
- Eraser. Blackboard-. R. A. Costello. No. 1,153,894; Sept. 21; Gaz. vol. 218; p. 615.
- Eraser. Blackboard-. R. A. Costello. No. 1,157,369; Oct. 19; Gaz. vol. 219; p. 771.
- Eraser. Blackboard-. J. F. Palmer. No. 1,157,718; Oct. 26; Gaz. vol. 219; p. 954.
- Eraser-cleaner. J. W. Johnson. No. 1,155,242; Sept. 28; Gaz. vol. 218; p. 1103.
- Eraser-cleaning machine. G. U. Thompson. No. 1,163,283; Dec. 7; Gaz. vol. 221; p. 191.
- Eraser-cleaning machine. G. U. Thompson. No. 1,163,384; Dec. 7; Gaz. vol. 221; p. 192.
- Eraser-holder for pencils. A. F. W. Bowen. No. 1,136,094; Apr. 20; Gaz. vol. 213; p. 794.
- Eraser. Vacuum blackboard-. M. V. Wolf. No. 1,147,064; July 20; Gaz. vol. 216; p. 772.
- Erasing-tool. L. Kaiser. No. 1,151,364; Aug. 24; Gaz. vol. 217; p. 1235.
- Escapement. H. A. Myers. No. 1,138,775; May 11; Gaz. vol. 214; p. 408.
- Escapement mechanism. J. F. Mays. No. 1,165,337; Dec. 21; Gaz. vol. 221; p. 994.
- Escapement mechanism. Multiple-zero. O. Thieme. No. 1,143,240; June 15; Gaz. vol. 215; p. 833.
- Escutcheon-plate. C. Sikorski. No. 1,124,819; Jan. 12; Gaz. vol. 210; p. 612.
- Escutcheon-plate. L. A. Wilbur. No. 1,137,823; May 4; Gaz. vol. 214; p. 35.
- Esters and product thereof. Colloiding carbohydrate. H. W. Matheson. No. 1,161,063; Nov. 23; Gaz. vol. 220; p. 1065.
- Esters of the tertiary alcohols. Production of the. P. Neumann and J. Zeitner. No. 1,123,572; Jan. 5; Gaz. vol. 210; p. 128.
- Esters used as solvents of cellulose compounds. Recovery of formic. J. Duclaux. No. 1,127,871; Feb. 9; Gaz. vol. 211; p. 465.
- Etcher's cleaning-table. R. B. Friese and L. La Pointe. No. 1,148,449; July 27; Gaz. vol. 216; p. 1284.
- Etching apparatus. F. A. Flick. No. 1,133,547; Mar. 30; Gaz. vol. 212; p. 1468.
- Etching apparatus. L. E. Levy. No. 1,166,378; Dec. 28; Gaz. vol. 221; p. 1403.
- Etching apparatus. L. E. and H. S. Levy. No. 1,137,339; Apr. 27; Gaz. vol. 213; p. 1278.
- Etching apparatus. R. R. Page. No. 1,152,435; Sept. 7; Gaz. vol. 218; p. 19.
- Etching-machine. G. H. Brown. No. 1,132,911; Mar. 23; Gaz. vol. 212; p. 1203.
- Etching-machine. H. A. Burger. No. 1,145,183; July 6; Gaz. vol. 216; p. 73.
- Evaporating. T. F. Sanborn. No. 1,143,074; June 15; Gaz. vol. 215; p. 774.

Alphabetical list of inventions—Continued.

- Evaporating apparatus. L. P. Bauer. No. 1,143,743; June 22; Gaz. vol. 215; p. 1029.
- Evaporating apparatus. L. P. Bauer. No. 1,143,744; June 22; Gaz. vol. 215; p. 1030.
- Evaporating apparatus. E. Kuhnke. No. 1,126,491; Jan. 26; Gaz. vol. 210; p. 1277.
- Evaporating apparatus. W. Wiegand. No. 1,145,728; July 6; Gaz. vol. 216; p. 264.
- Evaporating apparatus. C. W. Zastrow. No. 1,124,096; Jan. 5; Gaz. vol. 210; p. 305.
- Evaporating liquids. Device for. E. R. Williams. No. 1,124,369; Jan. 12; Gaz. vol. 210; p. 451.
- Evaporating or concentrating apparatus. Liquid. E. Shaw. No. 1,164,413; Dec. 14; Gaz. vol. 221; p. 632.
- Evaporation. F. B. Holmes. No. 1,126,471; Jan. 26; Gaz. vol. 210; p. 1270.
- Evaporator. F. M. De Beers. No. 1,140,881; May 25; Gaz. vol. 214; p. 1219.
- Evaporator. G. H. Grimm. No. 1,159,213; Nov. 2; Gaz. vol. 220; p. 280.
- Evaporator. E. W. Holmes. No. 1,153,788; Sept. 14; Gaz. vol. 218; p. 542.
- Evaporator. L. M. and M. Jennings. No. 1,126,767; Feb. 2; Gaz. vol. 211; p. 36.
- Evaporator. M. J. Kermer. No. 1,150,605; Aug. 17; Gaz. vol. 217; p. 919.
- Evaporator. R. R. Row. No. 1,131,738; Mar. 16; Gaz. vol. 212; p. 726.
- Evaporator. O. Söderlund. No. 1,150,713; Aug. 17; Gaz. vol. 217; p. 956.
- Evaporator. G. W. Tower. No. 1,133,762; Mar. 30; Gaz. vol. 212; p. 1545.
- Evaporator. Fruit. W. M. Luther. No. 1,132,019; Mar. 16; Gaz. vol. 212; p. 830.
- Evaporator. Fruit. W. M. Luther. No. 1,132,020; Mar. 16; Gaz. vol. 212; p. 830.
- Evaporator-shells. Automatic feed apparatus for. J. Sorensen. No. 1,166,273; Dec. 28; Gaz. vol. 221; p. 1366.
- Evaporators. Testing device for liquid-. F. L. Ellis. No. 1,148,506; Aug. 3; Gaz. vol. 217; p. 7.
- Evener-coupling. G. F. Thompson. (Reissue.) No. 1,39,907; Apr. 27; Gaz. vol. 213; p. 1411.
- Ewe and lamb shield and protector. F. J. Heinsbaugh. No. 1,160,167; Nov. 16; Gaz. vol. 220; p. 704.
- Excavating and conveying apparatus. J. L. Potter. No. 1,142,457; June 8; Gaz. vol. 215; p. 520.
- Excavating and filling apparatus. T. F. Gannon. No. 1,142,692; June 8; Gaz. vol. 215; p. 599.
- Excavating apparatus. J. W. Hensley. No. 1,133,960; Mar. 30; Gaz. vol. 212; p. 1612.
- Excavating apparatus. C. R. West. No. 1,154,357; Sept. 21; Gaz. vol. 218; p. 774.
- Excavating apparatus. Tooth-plate for. H. S. Atkinson. No. 1,128,399; Feb. 16; Gaz. vol. 211; p. 696.
- Excavating-dipper cleaner. E. A. Anderson. No. 1,128,215; Feb. 9; Gaz. vol. 211; p. 583.
- Excavating-dipper tooth. W. L. E. Mahon. No. 1,133,234; Mar. 23; Gaz. vol. 212; p. 1319.
- Excavating-machine. M. Arnold. No. 1,164,448; Dec. 14; Gaz. vol. 221; p. 645.
- Excavating-machine. M. G. Bunnell. No. 1,131,114; Mar. 9; Gaz. vol. 212; p. 475.
- Excavating-machine. M. G. Bunnell. No. 1,159,173; Nov. 2; Gaz. vol. 220; p. 265.
- Excavating-machine. P. D. Converse. No. 1,157,209; Oct. 19; Gaz. vol. 219; p. 713.
- Excavating-machine. J. W. Fairbanks. No. 1,143,619; June 22; Gaz. vol. 215; p. 988.
- Excavating-machine. H. H. Harris. No. 1,126,203; Jan. 26; Gaz. vol. 210; p. 1176.
- Excavating-machine. M. E. Howard. No. 1,161,938; Nov. 30; Gaz. vol. 220; p. 1420.
- Excavating-machine. E. E. Hubbard. No. 1,132,720; Mar. 23; Gaz. vol. 212; p. 1134.
- Excavating-machine. B. Ketelsen. No. 1,128,003; Feb. 3; Gaz. vol. 211; p. 510.
- Excavating-machine. C. B. King, G. Holmes, R. Jacoby, and H. E. Roush. No. 1,128,151; Feb. 9; Gaz. vol. 211; p. 562.
- Excavating-machine. C. B. King and C. B. Weston. No. 1,164,652; Dec. 21; Gaz. vol. 221; p. 756.
- Excavating-machine. H. McDermott. No. 1,139,690; May 18; Gaz. vol. 214; p. 766.
- Excavating-machine. J. Pronovost. No. 1,161,337; Nov. 23; Gaz. vol. 220; p. 1164.
- Excavating-machine. Clam-shell. C. E. Bathrick. No. 1,162,740; Dec. 7; Gaz. vol. 221; p. 4.
- Excavating-machines. Dipper-tooth for. F. O. Rush. No. 1,131,426; Mar. 9; Gaz. vol. 212; p. 584.
- Excavating-machines. Open-type bucket for. F. J. Monahan. No. 1,131,071; Mar. 9; Gaz. vol. 212; p. 461.
- Excavating-shovel. R. Holmes. No. 1,155,153; Sept. 28; Gaz. vol. 218; p. 1075.
- Excavating-shovel. C. A. Morris. No. 1,139,559; May 18; Gaz. vol. 214; p. 719.
- Excavations and horizontal sheeting. Lining. J. B. Goldsborough. No. 1,143,184; June 15; Gaz. vol. 215; p. 813.
- Excavator. M. G. Bunnell. No. 1,140,662; May 25; Gaz. vol. 214; p. 1143.
- Excavator. W. Kelly. No. 1,163,826; Dec. 14; Gaz. vol. 221; p. 429.
- Excavator. W. Stansell. No. 1,137,171; Apr. 27; Gaz. vol. 213; p. 1215.
- Excavator. Bucket. W. I. Bettis. No. 1,162,676; Nov. 30; Gaz. vol. 220; p. 1670.
- Excavator, Bucket. M. G. Bunnell. No. 1,160,572; Nov. 16; Gaz. vol. 220; p. 845.
- Excavator. Drag-line. L. Roys. No. 1,135,928; Apr. 13; Gaz. vol. 213; p. 694.
- Excavator. Hillside. M. G. Bunnell. No. 1,125,896; Jan. 19; Gaz. vol. 210; p. 1029.
- Excavator-shield. D. W. Murphy. No. 1,149,937; Aug. 10; Gaz. vol. 217; p. 623.
- Excavator. Two-way bucket. M. G. Bunnell. No. 1,153,997; Sept. 21; Gaz. vol. 218; p. 649.
- Excavators. Cable-brake for drag-line. W. Ferris. No. 1,149,357; Aug. 10; Gaz. vol. 217; p. 414.
- Excavators. Cutter for shale. J. M. Powell. No. 1,129,517; Feb. 23; Gaz. vol. 211; p. 1123.
- Excelsior-cutting machine. W. A. Walker. No. 1,141,222; June 1; Gaz. vol. 215; p. 47.
- Excelsior for bedding and packing purposes. Manufacture from cellulose of a fireproof substitute for. A. C. Borzner. No. 1,165,062; Dec. 21; Gaz. vol. 221; p. 899.
- Excess-indicator. H. O. Swoboda. No. 1,144,335; June 22; Gaz. vol. 215; p. 1238.
- Exchange system. Semi-automatic. A. M. Bullard. No. 1,144,997; July 6; Gaz. vol. 216; p. 6.
- Excrement-receptacle. J. C. White. No. 1,139,941; May 18; Gaz. vol. 214; p. 854.
- Exerciser. N. Pszysztas. No. 1,133,746; Mar. 30; Gaz. vol. 212; p. 1540.
- Exercising apparatus. E. R. Bathrick. No. 1,142,137; June 8; Gaz. vol. 215; p. 407.
- Exercising apparatus. E. A. Brown. No. 1,146,843; July 20; Gaz. vol. 216; p. 693.
- Exercising apparatus. R. N. Diehl. No. 1,138,196; May 4; Gaz. vol. 214; p. 166.
- Exercising apparatus for use by musicians for developing the muscles of the hand. H. Ostrovsky. No. 1,136,481; Apr. 20; Gaz. vol. 213; p. 933.
- Exercising apparatus for use in a lying position. A. Abplanalp. No. 1,144,085; June 22; Gaz. vol. 215; p. 1149.
- Exercising device. W. R. Goodman. No. 1,123,272; Jan. 5; Gaz. vol. 210; p. 23.
- Exercising-machine. M. De Palkowska and A. Bullard. No. 1,157,003; Oct. 26; Gaz. vol. 219; p. 1053.
- Exercising-machine. E. J. Kerns. No. 1,139,126; May 11; Gaz. vol. 214; p. 533.
- Exercising-machine. F. E. Patterson. No. 1,137,339; Apr. 27; Gaz. vol. 213; p. 1282.
- Exercising or gaming apparatus. D. H. Kleinschmidt. No. 1,132,101; Mar. 16; Gaz. vol. 212; p. 857.
- Exhaust-box. F. Kankkonen. No. 1,133,565; Mar. 30; Gaz. vol. 212; p. 1474.
- Exhaust-muffler. C. A. Orr. No. 1,131,543; Mar. 9; Gaz. vol. 212; p. 624.
- Exhaust-silencer. J. F. Spiegel. No. 1,150,898; Aug. 24; Gaz. vol. 217; p. 1077.
- Exhauster. A. L. Duncan. No. 1,132,172; Mar. 16; Gaz. vol. 212; p. 885.
- Exhibiting and advertising apparatus. H. Reichenbach. No. 1,133,504; Mar. 30; Gaz. vol. 212; p. 1452.
- Exhibiting and vending case. F. A. Canfield. No. 1,162,750; Dec. 7; Gaz. vol. 221; p. 7.
- Exhibiting and vending device. F. A. Canfield. No. 1,164,166; Dec. 14; Gaz. vol. 221; p. 546.
- Exhibitor. J. S. Fritz. No. 1,165,239; Dec. 21; Gaz. vol. 221; p. 962.
- Exhibitor. J. J. Monawad. No. 1,155,083; Sept. 28; Gaz. vol. 218; p. 1050.
- Exhibitor. Changeable. R. P. Stephens. No. 1,150,314; Aug. 17; Gaz. vol. 217; p. 818.
- Exit-lock. Panic. A. M. Kelley. No. 1,136,141; Apr. 20; Gaz. vol. 213; p. 810.
- Expanding-roller. C. Ugnon. No. 1,140,546; May 25; Gaz. vol. 214; p. 1104.
- Expanding wrench or tool. P. Courembis. No. 1,164,704; Dec. 21; Gaz. vol. 221; p. 774.
- Expansible chamber. S. D. Ingham. No. 1,151,595; Aug. 31; Gaz. vol. 217; p. 1362.
- Expansion and fastening device. G. C. Raeger. No. 1,146,651; July 13; Gaz. vol. 216; p. 607.
- Expansion and toggle bolt and parts thereof. Combined. H. W. Pleister. No. 1,161,155; Nov. 23; Gaz. vol. 220; p. 1098.
- Expansion-bolt. C. J. Clements. No. 1,161,617; Nov. 23; Gaz. vol. 220; p. 1261.
- Expansion-bolt. D. Masor. No. 1,130,003; Mar. 2; Gaz. vol. 212; p. 57.
- Expansion-bolt. H. G. Osborne. No. 1,139,712; May 18; Gaz. vol. 214; p. 774.
- Expansion-bolt. W. C. Yeatman. No. 1,164,322; Dec. 14; Gaz. vol. 221; p. 600.
- Expansion-bolt. L. R. Zifferer. No. 1,136,638; Apr. 20; Gaz. vol. 213; p. 987.
- Expansion-bolt. L. R. Zifferer. No. 1,138,345; May 4; Gaz. vol. 214; p. 220.
- Expansion-bolt. Drive and screw. H. W. Pleister. No. 1,153,335; Sept. 14; Gaz. vol. 218; p. 380.

Alphabetical list of inventions—Continued.

- Expansion engine, Multiple-. J. H. Sebal. No. 1,124,339; Jan. 12; Gaz. vol. 210; p. 439.
- Expansion engine, Multiple-. J. H. Sebal. No. 1,124,340; Jan. 12; Gaz. vol. 210; p. 439.
- Expansion-joint. T. Miller. No. 1,163,941; Dec. 14; Gaz. vol. 221; p. 468.
- Expansion-tank. F. C. Smith. No. 1,149,865; Aug. 10; Gaz. vol. 217; p. 596.
- Expansive bit. H. O. Davis. No. 1,165,854; Dec. 28; Gaz. vol. 221; p. 1214.
- Explosion-engine. J. W. Bradley. No. 1,155,297; Sept. 28; Gaz. vol. 218; p. 1119.
- Explosion-engine. H. E. Coffin. No. 1,153,675; Sept. 14; Gaz. vol. 218; p. 502.
- Explosion-engine. H. E. Coffin. No. 1,153,676; Sept. 14; Gaz. vol. 218; p. 502.
- Explosion-engine. J. T. Curtis. No. 1,165,324; Dec. 21; Gaz. vol. 221; p. 989.
- Explosion-engine. G. W. Dunham. No. 1,165,858; Dec. 28; Gaz. vol. 221; p. 1215.
- Explosion-engine. E. R. Fried. No. 1,147,855; July 27; Gaz. vol. 216; p. 1074.
- Explosion-engine. B. Neuteboom and C. H. Taylor. No. 1,160,438; Nov. 16; Gaz. vol. 220; p. 797.
- Explosion-engine. M. Pazos. No. 1,147,640; July 20; Gaz. vol. 216; p. 974.
- Explosion-engine. E. U. Stewart. No. 1,152,859; Sept. 7; Gaz. vol. 218; p. 177.
- Explosion-engine. C. H. Taylor and B. Neuteboom. No. 1,135,074; Apr. 13; Gaz. vol. 213; p. 398.
- Explosion-engine. E. Wolff. No. 1,142,073; June 8; Gaz. vol. 215; p. 384.
- Explosion-engine and operating the same. N. T. Harrington. No. 1,148,166; July 27; Gaz. vol. 216; p. 1187.
- Explosion-motor. T. Berlize. No. 1,151,654; Aug. 31; Gaz. vol. 217; p. 1381.
- Explosion-motor, Two-stroke-cycle. F. Pilain. No. 1,147,118; July 20; Gaz. vol. 216; p. 789.
- Explosive. G. Burghschmiet. No. 1,139,339; May 11; Gaz. vol. 214; p. 605.
- Explosive. A. B. Cole. No. 1,126,401; Jan. 26; Gaz. vol. 210; p. 1245.
- Explosive. J. F. O'Brien. No. 1,132,873; Mar. 23; Gaz. vol. 212; p. 1191.
- Explosive. C. Schanandoah. No. 1,141,009; May 25; Gaz. vol. 214; p. 1263.
- Explosive. F. Sparre. No. 1,128,380; Feb. 16; Gaz. vol. 211; p. 689.
- Explosive. C. M. Stine. No. 1,143,330; June 15; Gaz. vol. 215; p. 864.
- Explosive. C. A. Woodbury. No. 1,124,679; Jan. 12; Gaz. vol. 210; p. 563.
- Explosive. C. A. Woodbury. No. 1,149,487; Aug. 10; Gaz. vol. 217; p. 458.
- Explosive barrier. G. E. Elia. No. 1,140,137; May 18; Gaz. vol. 214; p. 925.
- Explosive-cap protector. C. H. Allison. No. 1,163,965; Dec. 14; Gaz. vol. 221; p. 476.
- Explosive containing liquid air or oxygen and lampblack. G. Claude. No. 1,131,994; Mar. 16; Gaz. vol. 212; p. 820.
- Explosive-engine. C. E. Baker and E. M. De Long. No. 1,154,475; Sept. 21; Gaz. vol. 218; p. 813.
- Explosive-engine. O. M. Bergstrom. No. 1,150,244; Aug. 17; Gaz. vol. 217; p. 795.
- Explosive-engine. O. M. Bergstrom. No. 1,161,184; Nov. 23; Gaz. vol. 220; p. 1109.
- Explosive-engine. W. W. Connors. No. 1,135,501; Apr. 13; Gaz. vol. 213; p. 545.
- Explosive-engine. H. T. Crew. No. 1,126,713; Feb. 2; Gaz. vol. 211; p. 16.
- Explosive-engine. J. T. Curtis. No. 1,141,443; June 1; Gaz. vol. 215; p. 128.
- Explosive-engine. G. E. Dick and R. M. Bigler. No. 1,126,723; Feb. 2; Gaz. vol. 211; p. 19.
- Explosive-engine. A. G. Ellis. No. 1,138,648; May 11; Gaz. vol. 214; p. 362.
- Explosive-engine. G. W. Farnsworth. No. 1,133,845; Mar. 30; Gaz. vol. 212; p. 1576.
- Explosive-engine. T. J. Flanagan. No. 1,143,526; June 15; Gaz. vol. 215; p. 930.
- Explosive-engine. C. A. Johnson. No. 1,150,199; Aug. 17; Gaz. vol. 217; p. 778.
- Explosive-engine. C. A. Johnson. No. 1,150,200; Aug. 17; Gaz. vol. 217; p. 778.
- Explosive-engine. B. W. King. No. 1,147,101; July 20; Gaz. vol. 216; p. 784.
- Explosive-engine. C. E. Mead. No. 1,154,647; Sept. 28; Gaz. vol. 218; p. 902.
- Explosive-engine. J. F. Moen. No. 1,149,670; Aug. 10; Gaz. vol. 217; p. 528.
- Explosive-engine. F. Mueller. No. 1,127,799; Feb. 9; Gaz. vol. 211; p. 439.
- Explosive-engine. E. G. Plummer. No. 1,136,265; Apr. 20; Gaz. vol. 213; p. 855.
- Explosive-engine. R. Ragan. No. 1,139,578; May 18; Gaz. vol. 214; p. 726.
- Explosive-engine. J. Spiess. No. 1,128,540; Feb. 16; Gaz. vol. 211; p. 746.
- Explosive-engine. C. M. Stroud. No. 1,149,867; Aug. 10; Gaz. vol. 217; p. 597.
- Explosive-engine, Rotary hydrocarbon. C. W. Horn. No. 1,138,566; May 4; Gaz. vol. 214; p. 294.
- Explosive-engine, Single-valve four-cycle. J. Keister. No. 1,144,208; June 22; Gaz. vol. 215; p. 1194.
- Explosive, Gelatin. J. Maire. No. 1,128,471; Feb. 16; Gaz. vol. 211; p. 722.
- Explosive shell. A. Lijewski. No. 1,163,022; Dec. 7; Gaz. vol. 221; p. 100.
- Explosives from flying-machines, Apparatus for discharging. W. G. Price. No. 1,151,967; Aug. 31; Gaz. vol. 217; p. 1490.
- Explosives known as gelatin into paper shells, Machine for packing. F. Lavan. No. 1,144,216; June 22; Gaz. vol. 215; p. 1197.
- Explosives, Manufacture of. A. T. Cocking. No. 1,164,170; Dec. 14; Gaz. vol. 221; p. 547.
- Explosives, Manufacture of. T. Hawkins. No. 1,151,180; Aug. 24; Gaz. vol. 217; p. 1174.
- Explosives, Manufacturing. C. Hartmann. No. 1,135,792; Apr. 13; Gaz. vol. 213; p. 648.
- Exposing-table. H. C. Knudsen. No. 1,151,477; Aug. 24; Gaz. vol. 217; p. 1272.
- Extensible stand or support, Self-locking. E. Levin. No. 1,136,147; Apr. 20; Gaz. vol. 213; p. 813.
- Extensible table. W. T. Fink. No. 1,158,125; Oct. 26; Gaz. vol. 219; p. 1098.
- Extensible table. C. H. Harris. No. 1,146,068; July 13; Gaz. vol. 216; p. 403.
- Extension dining-table, Knockdown. C. J. Brown. No. 1,143,805; June 22; Gaz. vol. 215; p. 1051.
- Extension-step, Folding. D. Schultz. No. 1,164,226; Dec. 14; Gaz. vol. 221; p. 565.
- Extension-table. H. Amsel and B. Reichard. No. 1,153,666; Sept. 14; Gaz. vol. 218; p. 499.
- Extension-table. A. De Kubber. No. 1,150,813; Aug. 17; Gaz. vol. 217; p. 991.
- Extension-table. M. Elather. No. 1,159,000; Nov. 2; Gaz. vol. 220; p. 205.
- Extension-table. I. Karish. No. 1,135,115; Apr. 13; Gaz. vol. 213; p. 412.
- Extension-table. I. Karish. No. 1,154,023; Sept. 21; Gaz. vol. 218; p. 658.
- Extension-table. S. Kjellgren. No. 1,148,907; Aug. 3; Gaz. vol. 217; p. 150.
- Extension-table. J. Krasnodemski. No. 1,140,466; May 25; Gaz. vol. 214; p. 1075.
- Extension-table. T. Maia. No. 1,164,376; Dec. 14; Gaz. vol. 221; p. 619.
- Extension-table. H. Manoogian. No. 1,128,808; Feb. 16; Gaz. vol. 211; p. 838.
- Extension-table. E. L. Marston. No. 1,161,399; Nov. 23; Gaz. vol. 220; p. 1187.
- Extension-table. D. F. Oliver. No. 1,134,000; Mar. 30; Gaz. vol. 212; p. 1625.
- Extension-table. B. E. Olson. No. 1,143,853; June 22; Gaz. vol. 215; p. 1068.
- Extension-table. W. L. Pfefferkorn, A. P. Schloerb, and A. H. Hammett. No. 1,128,038; Feb. 9; Gaz. vol. 211; p. 523.
- Extension-table. C. F. Schlueter. No. 1,139,730; May 18; Gaz. vol. 214; p. 780.
- Extension-table. H. O. Schold and A. A. Swenson. No. 1,145,802; July 6; Gaz. vol. 216; p. 289.
- Extension-table. J. Stein. No. 1,151,733; Aug. 31; Gaz. vol. 217; p. 1408.
- Extension-table. M. Wurm. No. 1,154,827; Sept. 28; Gaz. vol. 218; p. 962.
- Extension-table, Library. A. H. Stone and E. O. Brostrom. No. 1,124,970; Jan. 12; Gaz. vol. 210; p. 665.
- Exterminator. J. E. Dunham. No. 1,153,044; Sept. 7; Gaz. vol. 218; p. 241.
- Extracting apparatus. J. S. Foretich and E. L. Grooms. No. 1,149,039; Aug. 3; Gaz. vol. 217; p. 196.
- Extractor. See—
- | | |
|------------------------|---------------------------------|
| Bilge-water extractor. | Laundry-extractor. |
| Bottle-top extractor. | Pen-extractor. |
| Centrifugal extractor. | Pin-extractor. |
| Cork-extractor. | Pump-lining extractor. |
| Corn-extractor. | Spike-extractor. |
| Drill-extractor. | Stopper-extractor. |
| Drill-rod extractor. | Tar-extractor. |
| Flue-stub extractor. | Tie-extractor. |
| Gold-extractor. | Turpentine and resin extractor. |
| Hydro-extractor. | Wax-extractor. |
| Juice-extractor. | |
- Extractor. C. G. R. Hammar. No. 1,153,070; Sept. 7; Gaz. vol. 218; p. 250.
- Extracts, Manufacture of beverage. J. L. Kellogg. No. 1,163,759; Dec. 14; Gaz. vol. 221; p. 405.
- Extrusion-machine. C. F. Burroughs and F. B. Northrup. No. 1,162,335; Nov. 30; Gaz. vol. 220; p. 1558.
- Eye, Appliance for refracting the. W. Lamb. No. 1,128,693; Feb. 16; Gaz. vol. 211; p. 797.
- Eye, Mechanical. J. A. Manning. No. 1,128,342; Feb. 16; Gaz. vol. 211; p. 678.
- Eye, Mechanical. J. A. Manning. No. 1,137,772; May 4; Gaz. vol. 214; p. 17.
- Eye-patch. I. R. Lush. No. 1,161,321; Nov. 23; Gaz. vol. 220; p. 1159.
- Eye-protector. G. H. Day. No. 1,142,313; June 8; Gaz. vol. 215; p. 467.

Alphabetical list of inventions—Continued.

- Eye-protector. F. H. Rextrew. No. 1,123,376; Jan. 5; Gaz. vol. 210; p. 62.
- Eye-shade. J. C. White. No. 1,149,706; Aug. 10; Gaz. vol. 217; p. 539.
- Eye-shade and program. Combined. E. J. Williams. No. 1,163,054; Dec. 7; Gaz. vol. 221; p. 111.
- Eye-shield. R. Malcom. No. 1,161,061; Nov. 23; Gaz. vol. 220; p. 1065.
- Eye-shield. S. S. Mullen. No. 1,152,431; Sept. 7; Gaz. vol. 218; p. 17.
- Eye-shield. G. T. Phelps. No. 1,139,444; May 11; Gaz. vol. 214; p. 643.
- Eye-shield. F. E. Weeks. No. 1,163,290; Dec. 7; Gaz. vol. 221; p. 194.
- Eye-testing device. A. L. Jones. No. 1,162,489; Nov. 30; Gaz. vol. 220; p. 1611.
- Eyeglass. C. E. Miller. No. 1,124,781; Jan. 12; Gaz. vol. 210; p. 598.
- Eyeglass-case. J. M. Bradley and C. F. Pike. No. 1,158,169; Oct. 26; Gaz. vol. 219; p. 1113.
- Eyeglass-case. J. M. Bradley and C. F. Pike. No. 1,158,170; Oct. 26; Gaz. vol. 219; p. 1113.
- Eyeglass-cases and the like. Name-plate for. H. R. Goodell. No. 1,156,772; Oct. 12; Gaz. vol. 219; p. 529.
- Eyeglass-cases. Machine for covering. L. E. Brown. No. 1,130,790; Mar. 9; Gaz. vol. 212; p. 365.
- Eyeglass-chain reel. O. B. Wedell. No. 1,141,855; June 1; Gaz. vol. 215; p. 267.
- Eyeglass-cleaner. J. T. Leonard. No. 1,144,483; June 29; Gaz. vol. 215; p. 1316.
- Eyeglass construction. L. C. Martin. No. 1,131,610; Mar. 9; Gaz. vol. 212; p. 647.
- Eyeglass-guard. J. S. Galeski. No. 1,124,126; Jan. 5; Gaz. vol. 210; p. 315.
- Eyeglass-guard. I. M. Schwab. No. 1,141,011; May 25; Gaz. vol. 214; p. 1264.
- Eyeglass-guard. F. J. Witts. No. 1,153,000; Sept. 7; Gaz. vol. 218; p. 228.
- Eyeglass-lens mounting. L. F. Tate. No. 1,164,145; Dec. 14; Gaz. vol. 221; p. 539.
- Eyeglass-lenses. Fastening for. A. F. Thompson. No. 1,163,872; Dec. 14; Gaz. vol. 221; p. 444.
- Eyeglass-mounting. L. F. Adt. No. 1,154,743; Sept. 28; Gaz. vol. 218; p. 933.
- Eyeglass-mounting. L. L. Houchin. No. 1,125,022; Jan. 12; Gaz. vol. 210; p. 684.
- Eyeglass-mounting. J. T. Laughlin. No. 1,161,699; Nov. 23; Gaz. vol. 220; p. 1290.
- Eyeglass-mounting. E. B. Meyrowitz. No. 1,164,300; Dec. 14; Gaz. vol. 221; p. 592.
- Eyeglass-mounting. A. J. Morrarty. No. 1,162,184; Nov. 30; Gaz. vol. 220; p. 1506.
- Eyeglass-mounting. H. Newbold. No. 1,145,077; July 6; Gaz. vol. 216; p. 38.
- Eyeglass-mounting. H. Silbert. No. 1,145,442; July 6; Gaz. vol. 216; p. 163.
- Eyeglass-mountings. Cement for. W. R. Uhlemann. No. 1,137,366; Apr. 27; Gaz. vol. 213; p. 1288.
- Eyeglass nose-guard. G. Mayerle. No. 1,151,282; Aug. 24; Gaz. vol. 217; p. 1209.
- Eyeglass-protector. I. G. Burton. No. 1,143,502; June 15; Gaz. vol. 215; p. 922.
- Eyeglass-rim. W. C. Jones. No. 1,129,402; Feb. 23; Gaz. vol. 211; p. 1084.
- Eyeglass-stud. C. S. Steelman. No. 1,135,219; Apr. 13; Gaz. vol. 213; p. 447.
- Eyeglasses. L. F. Adt. No. 1,150,845; Aug. 24; Gaz. vol. 217; p. 1031.
- Eyeglasses. J. Friedlander. No. 1,154,241; Sept. 21; Gaz. vol. 218; p. 733.
- Eyeglasses. P. Sallas. No. 1,144,068; June 22; Gaz. vol. 215; p. 1143.
- Eyeglasses. L. E. Sibley. No. 1,161,987; Nov. 30; Gaz. vol. 220; p. 1437.
- Eyeglasses. J. C. Wells. No. 1,158,605; Nov. 2; Gaz. vol. 220; p. 69.
- Eyeglasses. Adjustable nose-piece for. W. J. Taylor. No. 1,136,736; Apr. 20; Gaz. vol. 213; p. 1023.
- Eyeglasses and spectacles. Lenses for. E. W. Laisne. No. 1,144,853; June 29; Gaz. vol. 215; p. 1444.
- Eyeglasses and the like articles. Holder for. G. H. Clapham. No. 1,140,024; May 18; Gaz. vol. 214; p. 885.
- Eyeglasses. Folding. H. E. Leibe. No. 1,152,521; Sept. 7; Gaz. vol. 218; p. 51.
- Eyeglasses. Tool for inserting springs in. A. R. Feistel. No. 1,162,592; Nov. 30; Gaz. vol. 220; p. 1644.
- Eyeletting apparatus. C. Stoeber. No. 1,126,908; Feb. 2; Gaz. vol. 211; p. 85.
- Eyeletting-machine. R. E. Dodge. No. 1,131,123; Mar. 9; Gaz. vol. 212; p. 478.
- Eyeletting-machine. A. F. Engel. No. 1,132,567; Mar. 23; Gaz. vol. 212; p. 1076.
- Eyeletting-machine. E. S. Ensign. No. 1,159,576; Nov. 9; Gaz. vol. 220; p. 439.
- Eyeletting-machine. R. C. Simmons. No. 1,156,936; Oct. 19; Gaz. vol. 219; p. 616.
- Eyeletting-machine. R. B. Smith. No. 1,163,699; Dec. 14; Gaz. vol. 221; p. 383.
- Eyeletting-machine. A. B. Wales. No. 1,143,741; June 22; Gaz. vol. 215; p. 1029.
- Eyelets and hooks. Device for clenching. R. Burrell. No. 1,142,797; June 15; Gaz. vol. 215; p. 675.
- Fabric. *See—*
- Adhesive-coated fabric.
- Bed fabric.
- Bed-spring fabric.
- Coated fabric.
- Coating fabric.
- Cotton fabric.
- Corrugated-link bed fabric.
- Embroidered fabric.
- Fence fabric.
- Hose fabric.
- Insulating fabric.
- Jewelry fabric.
- Knitted fabric.
- Lace fabric.
- Laminated fabric.
- Mattress fabric.
- Metal fabric.
- Metallic fabric.
- Mohair fabric.
- Net fabric.
- Ornamental fabric.
- Pile fabric.
- Plaited fabric.
- Plaster fabric.
- Rubberized fabric.
- Textile fabric.
- Tire fabric.
- Tabular fabric.
- Tucked fabric.
- Waterproof fabric.
- Wire fabric.
- Wire link fabric.
- Woven fabric.
- Fabric. C. W. Royce. No. 1,163,262; Dec. 7; Gaz. vol. 221; p. 185.
- Fabric. N. Zuck and F. G. Pfäster. No. 1,144,519; June 29; Gaz. vol. 215; p. 1328.
- Fabric-clasp. L. E. Berebaum. No. 1,154,362; Sept. 21; Gaz. vol. 218; p. 776.
- Fabric-coating apparatus. J. P. Devine. No. 1,164,174; Dec. 14; Gaz. vol. 221; p. 548.
- Fabric connection. C. A. Hansen. No. 1,135,112; Apr. 13; Gaz. vol. 213; p. 411.
- Fabric covering and making the same. Woven. J. N. Wiggin. No. 1,124,087; Jan. 5; Gaz. vol. 210; p. 302.
- Fabric-cutting device. H. Fuhry. No. 1,143,594; June 15; Gaz. vol. 215; p. 955.
- Fabric-doubling machine. A. Leisel. No. 1,133,440; Mar. 30; Gaz. vol. 212; p. 1429.
- Fabric-drying machine. B. A. Parkes. No. 1,125,707; Jan. 19; Gaz. vol. 210; p. 966.
- Fabric-folding machine. W. S. Mills. No. 1,140,388; May 25; Gaz. vol. 214; p. 1046.
- Fabric for mats, &c. C. O. Ryberg. No. 1,160,201; Nov. 16; Gaz. vol. 220; p. 715.
- Fabric-frame-motion mechanism. R. Zahn. No. 1,127,148; Feb. 2; Gaz. vol. 211; p. 171.
- Fabric-making machine. C. H. Frederick. No. 1,148,766; Aug. 3; Gaz. vol. 217; p. 102.
- Fabric, Manufacturing. P. F. Vogel. No. 1,137,434; Apr. 27; Gaz. vol. 213; p. 1312.
- Fabric or other sheet material. Machine for feeding together the marginal portions of thin flexible. E. E. Winkley. No. 1,158,763; Nov. 2; Gaz. vol. 220; p. 124.
- Fabric-pressing machine. W. H. Ermentrout and E. H. Zacharias. No. 1,147,383; July 20; Gaz. vol. 216; p. 883.
- Fabric-roll holder. C. Banks. No. 1,161,106; Nov. 23; Gaz. vol. 220; p. 1080.
- Fabric-stretching machine. T. Midgley. No. 1,161,956; Nov. 30; Gaz. vol. 220; p. 1425.
- Fabric strips. Means for holding the ends of. C. P. Kuehn. No. 1,128,334; Feb. 16; Gaz. vol. 211; p. 676.
- Fabric-tearing device. W. C. Stevens. No. 1,134,293; Apr. 6; Gaz. vol. 213; p. 77.
- Fabric-tensile-strength testers. Attachment for. S. N. Senna. No. 1,166,266; Dec. 28; Gaz. vol. 221; p. 1364.
- Fabric-treating machine. A. B. Tozer. No. 1,123,427; Jan. 5; Gaz. vol. 210; p. 79.
- Fabric-trimming machine. G. L. Bourquin and R. Loeb. No. 1,144,319; June 22; Gaz. vol. 215; p. 1232.
- Fabrics. Apparatus for treating coated. B. F. Chamberlin, Jr., and J. N. Moulton. No. 1,131,993; Mar. 16; Gaz. vol. 212; p. 820.
- Fabrics. Apparatus for treating coated. C. J. Landin. No. 1,160,724; Nov. 16; Gaz. vol. 220; p. 902.
- Fabrics. Machine for forming openings in woven. B. R. Benjamin. No. 1,157,754; Oct. 26; Gaz. vol. 219; p. 968.
- Fabrics. Manufacture of woven. T. Holt. No. 1,166,211; Dec. 28; Gaz. vol. 221; p. 1343.
- Fabrics. Ornamenting. M. Linfoot. No. 1,137,501; Apr. 27; Gaz. vol. 213; p. 1334.
- Fabrics. Process and apparatus for treating. W. W. Sibson. No. 1,137,719; Apr. 27; Gaz. vol. 213; p. 1405.
- Fabrics. Removing stains from. G. E. Darrow. No. 1,164,705; Dec. 21; Gaz. vol. 221; p. 774.
- Fabrics. Satinizing cotton. H. Dutschke. No. 1,132,001; Mar. 16; Gaz. vol. 212; p. 823.
- Fabrics. Treating. H. L. Quick. No. 1,131,270; Mar. 9; Gaz. vol. 212; p. 530.
- Fabrics. Treatment of open-mesh textile. M. Ratignier. No. 1,133,062; Mar. 23; Gaz. vol. 212; p. 1260.
- Facial expressions. Device for making. W. Huston. No. 1,164,816; Dec. 21; Gaz. vol. 221; p. 814.
- Facing-blocks. F. G. Niemeyer. No. 1,140,913; May 25; Gaz. vol. 214; p. 1231.
- Facing-tool. R. Gesswein. No. 1,124,885; Jan. 12; Gaz. vol. 210; p. 637.
- False work. Adjustable. R. A. Cummings. No. 1,163,641; Dec. 14; Gaz. vol. 221; p. 361.
- Fan. R. Haldenwang, Jr. No. 1,141,957; June 8; Gaz. vol. 215; p. 341.
- Fan. M. Lichter. No. 1,126,797; Feb. 2; Gaz. vol. 211; p. 47.

Alphabetical list of inventions—Continued.

- Fan. J. P. Mann. No. 1,148,520; Aug. 3; Gaz. vol. 217; p. 13.
- Fan. C. P. Mosher. No. 1,126,256; Jan. 26; Gaz. vol. 210; p. 1195.
- Fan. W. Sparks. No. 1,137,240; Apr. 27; Gaz. vol. 213; p. 1241.
- Fan-actuating means. J. Gitz. No. 1,162,154; Nov. 30; Gaz. vol. 220; p. 1495.
- Fan-actuating mechanism. J. H. Everitt. No. 1,134,830; Apr. 6; Gaz. vol. 213; p. 270.
- Fan and fixture support. D. H. Murph. No. 1,141,203; June 1; Gaz. vol. 215; p. 40.
- Fan and map-guide, Combined. A. H. Pleasants. No. 1,148,479; July 27; Gaz. vol. 216; p. 1295.
- Fan and pump, Centrifugal. S. C. Davidson. No. 1,143,365; June 15; Gaz. vol. 215; p. 876.
- Fan and pump, Centrifugal. S. C. Davidson. No. 1,149,638; Aug. 10; Gaz. vol. 217; p. 517.
- Fan attachment. R. W. Walker. No. 1,134,495; Apr. 6; Gaz. vol. 213; p. 150.
- Fan attachment, Electric. W. B. Hill. No. 1,142,708; June 8; Gaz. vol. 215; p. 605.
- Fan-blade. C. P. Banzhof. No. 1,150,241; Aug. 17; Gaz. vol. 217; p. 794.
- Fan, Blower. J. E. Foster. No. 1,149,904; Aug. 10; Gaz. vol. 217; p. 611.
- Fan, Centrifugal. A. A. Criqui. No. 1,161,926; Nov. 30; Gaz. vol. 220; p. 1416.
- Fan, Centrifugal. R. Warg. No. 1,156,118; Oct. 12; Gaz. vol. 219; p. 302.
- Fan, Electric. C. F. Stauffer. C. P. Banzhof, and B. G. Stauffer. No. 1,150,313; Aug. 17; Gaz. vol. 217; p. 818.
- Fan, Electrically-driven. A. Schaeffer. No. 1,160,770; Nov. 16; Gaz. vol. 220; p. 918.
- Fan for umbrellas, Electric. S. Onyskow. No. 1,148,332; July 27; Gaz. vol. 216; p. 1246.
- Fan-guard attachment, Electric. T. G. Dabney. No. 1,158,184; Oct. 26; Gaz. vol. 219; p. 1118.
- Fan, Mechanical. A. F. Carlin. No. 1,135,257; Apr. 13; Gaz. vol. 213; p. 460.
- Fan member, Rotatable. F. A. Heath. No. 1,135,451; Apr. 13; Gaz. vol. 213; p. 528.
- Fan-motor. C. I. Hall. No. 1,156,901; Oct. 19; Gaz. vol. 219; p. 604.
- Fan-mounting. R. Huff. No. 1,148,514; Aug. 3; Gaz. vol. 217; p. 11.
- Fan or air-propeller. T. Shepherd and J. S. Hayes. No. 1,143,082; June 15; Gaz. vol. 215; p. 777.
- Fan or blower, Suction. E. E. Dickerson. No. 1,147,078; July 20; Gaz. vol. 216; p. 775.
- Fan or pump, Centrifugal. N. W. Akimoff. No. 1,165,931; Dec. 28; Gaz. vol. 221; p. 1241.
- Fan, Oscillating. E. Marelli. No. 1,138,390; May 4; Gaz. vol. 214; p. 236.
- Fan, Rotary. W. H. Carrier. No. 1,138,083; May 4; Gaz. vol. 214; p. 128.
- Fan, Rotary. W. Takesuye. No. 1,128,633; Feb. 16; Gaz. vol. 211; p. 778.
- Fan, Ventilating. S. M. Keyte. No. 1,132,187; Mar. 16; Gaz. vol. 212; p. 890.
- Fan, Ventilator. D. W. Matsler. No. 1,153,872; Sept. 14; Gaz. vol. 218; p. 573.
- Fan-wheel, Centrifugal. E. B. Williams. No. 1,154,152; Sept. 21; Gaz. vol. 218; p. 702.
- Fan-wheel, Ventilating. D. F. Lepley. No. 1,150,278; Aug. 17; Gaz. vol. 217; p. 806.
- Fanning-mill. D. A. Maanum. No. 1,144,368; June 29; Gaz. vol. 215; p. 1278.
- Fanning-mill. J. Volz. No. 1,132,501; Mar. 16; Gaz. vol. 212; p. 1006.
- Fare-box. W. T. Cook. No. 1,129,552; Feb. 23; Gaz. vol. 211; p. 1136.
- Fare-box. W. Cox. No. 1,135,260; Apr. 13; Gaz. vol. 213; p. 460.
- Fare-box. W. Cox. No. 1,135,261; Apr. 13; Gaz. vol. 213; p. 461.
- Fare-box. W. Cox. No. 1,135,262; Apr. 13; Gaz. vol. 213; p. 461.
- Fare-box. W. Cox. No. 1,135,263; Apr. 13; Gaz. vol. 213; p. 461.
- Fare-box. W. Cox. No. 1,135,264; Apr. 13; Gaz. vol. 213; p. 462.
- Fare-box. H. H. Fefell. No. 1,142,244; June 8; Gaz. vol. 215; p. 444.
- Fare-box. C. E. Pratt. No. 1,127,675; Feb. 9; Gaz. vol. 211; p. 391.
- Fare-box-supporting stand. W. Cox. No. 1,141,318; June 1; Gaz. vol. 215; p. 83.
- Fare-boxes, Coin-sorter for. J. Fafard. No. 1,128,672; Feb. 16; Gaz. vol. 211; p. 791.
- Fare-register. T. Carroll. No. 1,143,747; June 22; Gaz. vol. 215; p. 1031.
- Fare-register. S. F. Huntington. No. 1,144,475; June 29; Gaz. vol. 215; p. 1314.
- Fare-register. J. M. Johnson and H. J. Baur. No. 1,159,771; Nov. 9; Gaz. vol. 220; p. 511.
- Fare-register. J. M. Johnson and H. J. Baur. No. 1,159,772; Nov. 9; Gaz. vol. 220; p. 511.
- Fare-register. F. B. Kennedy. No. 1,144,478; June 29; Gaz. vol. 215; p. 1315.
- Fare-register. J. A. Turck. No. 1,160,215; Nov. 16; Gaz. vol. 220; p. 720.
- Fare-register, Total-adding. H. J. Baur. No. 1,163,881; Dec. 14; Gaz. vol. 221; p. 446.
- Fares in public conveyances, Means for the collection of. A. B. Masters. No. 1,148,979; Aug. 3; Gaz. vol. 217; p. 175.
- Farm and garden implement. J. De Falco. No. 1,161,627; Nov. 23; Gaz. vol. 220; p. 1265.
- Farm-gate. G. M. Bates. No. 1,155,463; Oct. 5; Gaz. vol. 219; p. 48.
- Farm-gate. G. W. Blazer. No. 1,131,109; Mar. 9; Gaz. vol. 212; p. 474.
- Farm-gate. C. E. Cardwell. No. 1,135,434; Apr. 13; Gaz. vol. 213; p. 522.
- Farm-gate. J. Flinner. No. 1,134,601; Apr. 6; Gaz. vol. 213; p. 189.
- Farm-gate. Z. F. Jones. No. 1,149,449; Aug. 10; Gaz. vol. 217; p. 446.
- Farm-gate. H. Kirch. No. 1,146,716; July 13; Gaz. vol. 216; p. 628.
- Farm-gate. B. S. Lunsford. No. 1,133,246; Mar. 23; Gaz. vol. 212; p. 1324.
- Farm-gate. J. D. Rodgers. No. 1,130,931; Mar. 9; Gaz. vol. 212; p. 414.
- Farm-gate. M. A. Stickley. No. 1,136,734; Apr. 20; Gaz. vol. 213; p. 1023.
- Farm implement. G. L. Dodds. No. 1,147,079; July 20; Gaz. vol. 216; p. 776.
- Farm machinery. A. J. Albracht and J. Wessel. No. 1,138,720; May 11; Gaz. vol. 214; p. 388.
- Farrow-house. J. H. Donaldson. No. 1,151,671; Aug. 31; Gaz. vol. 217; p. 1387.
- Fastener. D. Bailey. No. 1,150,482; Aug. 17; Gaz. vol. 217; p. 877.
- Fastener. C. A. Courtois. No. 1,135,439; Apr. 13; Gaz. vol. 213; p. 523.
- Fastener. E. G. Dustin. No. 1,131,347; Mar. 9; Gaz. vol. 212; p. 556.
- Fastener. F. Fitz Gibbon and C. Fitzpatrick. No. 1,162,467; Nov. 30; Gaz. vol. 220; p. 1603.
- Fastener. G. S. Hice. No. 1,163,088; Dec. 7; Gaz. vol. 221; p. 123.
- Fastener. F. N. Mertes. No. 1,144,222; June 22; Gaz. vol. 215; p. 1199.
- Fastener. H. Seabury. No. 1,164,227; Dec. 14; Gaz. vol. 221; p. 565.
- Fastener. E. M. Strong. No. 1,154,074; Sept. 21; Gaz. vol. 218; p. 676.
- Fastener. J. Wilson. No. 1,143,244; June 15; Gaz. vol. 215; p. 835.
- Fastener. W. W. Wilson. No. 1,144,576; June 29; Gaz. vol. 215; p. 1346.
- Fastener assembling and attaching means. J. Draher. No. 1,165,078; Dec. 21; Gaz. vol. 221; p. 904.
- Fastener, Automatic. A. E. Pollock and L. Rosenberg. (Reissue.) No. 14,005; Nov. 2; Gaz. vol. 220; p. 326.
- Fastener, Corrugated. J. J. Englert. No. 1,129,968; Mar. 2; Gaz. vol. 212; p. 46.
- Fastener, Corrugated-iron. M. A. McCoy. No. 1,133,164; Mar. 23; Gaz. vol. 212; p. 1296.
- Fastener-driving machine, Sheet-metal. W. H. Ray. No. 1,152,840; Sept. 7; Gaz. vol. 218; p. 169.
- Fastener for articles of wearing-apparel. K. E. Allport. No. 1,153,366; Sept. 14; Gaz. vol. 218; p. 393.
- Fastener for papers. J. C. Hub. No. 1,131,700; Mar. 16; Gaz. vol. 212; p. 713.
- Fastener-inserting machine. E. E. Winkley. No. 1,125,620; Jan. 19; Gaz. vol. 210; p. 932.
- Fastener, Separable. E. N. Humphrey. No. 1,156,008; Oct. 5; Gaz. vol. 219; p. 236.
- Fastener, Separable. L. Reiter and H. Fulford. No. 1,150,623; Aug. 17; Gaz. vol. 217; p. 925.
- Fastener-setting implement. P. Fontan. No. 1,149,642; Aug. 10; Gaz. vol. 217; p. 518.
- Fastener-setting machine. I. Epstein. No. 1,152,719; Sept. 7; Gaz. vol. 218; p. 125.
- Fastener-setting machine. D. N. Prime. No. 1,136,166; Apr. 20; Gaz. vol. 213; p. 819.
- Fastener-setting machine. W. Shaw. No. 1,139,449; May 11; Gaz. vol. 214; p. 645.
- Fasteners, Attachment for machines for driving. T. B. Rice, Jr. No. 1,153,955; Sept. 21; Gaz. vol. 218; p. 635.
- Fastening-clip. C. W. Beck. No. 1,142,479; June 8; Gaz. vol. 215; p. 527.
- Fastening device. H. B. Anderson. No. 1,127,574; Feb. 9; Gaz. vol. 211; p. 358.
- Fastening device. E. Battisti. No. 1,152,778; Sept. 7; Gaz. vol. 218; p. 146.
- Fastening device. L. K. Engle. No. 1,142,510; June 8; Gaz. vol. 215; p. 539.
- Fastening device. E. T. Epling and C. Woelfen. No. 1,129,969; Mar. 2; Gaz. vol. 212; p. 46.
- Fastening device. E. Erickson. No. 1,153,209; Sept. 14; Gaz. vol. 218; p. 336.
- Fastening device. W. H. Hoell. No. 1,165,257; Dec. 21; Gaz. vol. 221; p. 969.
- Fastening device. P. C. McCormick. No. 1,154,708; Sept. 28; Gaz. vol. 218; p. 922.
- Fastening device. J. E. Pierce. No. 1,157,039; Oct. 19; Gaz. vol. 219; p. 654.
- Fastening device. C. A. Rugg. No. 1,132,037; Mar. 16; Gaz. vol. 212; p. 836.

Alphabetical list of inventions—Continued.

- Fastening device. W. T. Scott. No. 1,140,291; May 18; Gaz. vol. 214; p. 976.
- Fastening device. B. R. Simmons. No. 1,124,540; Jan. 12; Gaz. vol. 210; p. 513.
- Fastening device. G. B. Sinclair and L. O. Whitman. No. 1,158,573; Nov. 2; Gaz. vol. 220; p. 58.
- Fastening device. G. C. Snyder. No. 1,138,020; May 4; Gaz. vol. 214; p. 103.
- Fastening device. H. L. Vaughan. No. 1,145,173; July 6; Gaz. vol. 216; p. 69.
- Fastening device for packages. E. C. Lawrence. No. 1,134,390; Apr. 6; Gaz. vol. 213; p. 112.
- Fastening devices, Attaching. G. C. Snyder. No. 1,138,021; May 4; Gaz. vol. 214; p. 103.
- Fastening, Fusible. F. L. Saino. No. 1,151,289; Aug. 24; Gaz. vol. 217; p. 1211.
- Fastening-inserting machine. T. Briggs. No. 1,136,095; Apr. 20; Gaz. vol. 213; p. 794.
- Fastening-inserting machine. J. W. Cosgrove. No. 1,164,784; Dec. 21; Gaz. vol. 221; p. 802.
- Fastening-inserting machine. P. R. Glass. No. 1,132,926; Mar. 23; Gaz. vol. 212; p. 1209.
- Fastening-inserting machine. G. Goddu. No. 1,124,417; Jan. 12; Gaz. vol. 210; p. 467.
- Fastening-inserting machine. J. P. Pride. No. 1,161,074; Nov. 23; Gaz. vol. 220; p. 1069.
- Fastening-inserting machine. R. C. Simmons. No. 1,163,697; Dec. 14; Gaz. vol. 221; p. 382.
- Fastening-inserting mechanism. R. F. McFeely. No. 1,135,955; Apr. 13; Gaz. vol. 213; p. 705.
- Fastening means. A. F. Brown. No. 1,127,176; Feb. 2; Gaz. vol. 211; p. 181.
- Fat and oil compounds, Dry. M. Hamburg. No. 1,124,611; Jan. 12; Gaz. vol. 210; p. 538.
- Fat complex and making same, Edible. C. Ellis. No. 1,151,002; Aug. 24; Gaz. vol. 217; p. 1113.
- Fat-cutting machine. M. Oehler. No. 1,157,799; Oct. 26; Gaz. vol. 219; p. 982.
- Fat or oil substances, Producing. O. T. Joslin. No. 1,152,023; Aug. 31; Gaz. vol. 217; p. 1509.
- Fats and fatty emulsions and the like, Apparatus for cooling hot or molten. H. G. R. Naumann. No. 1,163,439; Dec. 7; Gaz. vol. 221; p. 247.
- Fats and oils and the products derived from the same, Aromatizing. N. Sulzberger. No. 1,140,629; May 25; Gaz. vol. 214; p. 1132.
- Fats and oils, Apparatus for treating. P. G. Kaiser and B. E. Reuter. No. 1,156,905; Oct. 19; Gaz. vol. 219; p. 606.
- Fats, oils, and waxes, Hydrogenating. T. B. Walker. No. 1,123,962; Jan. 5; Gaz. vol. 210; p. 259.
- Fats, Treating animal. S. Zahner. No. 1,123,644; Jan. 5; Gaz. vol. 210; p. 153.
- Fatty and oleous materials from watery emulsions and finely-subdivided solid materials insoluble in water, Separation of. G. Bottaro. No. 1,159,355; Nov. 9; Gaz. vol. 220; p. 361.
- Fatty matters, Hydrogenizing. F. W. De Jahn. No. 1,131,339; Mar. 9; Gaz. vol. 212; p. 553.
- Fatty or other organic compounds, Effecting reduction of. E. C. Kayser. No. 1,134,746; Apr. 6; Gaz. vol. 213; p. 242.
- Fatigue-testing machine. G. B. Upton and G. W. Lewis. No. 1,156,726; Oct. 12; Gaz. vol. 219; p. 514.
- Faucet. I. S. Blattner. No. 1,149,892; Aug. 10; Gaz. vol. 217; p. 606.
- Faucet. W. S. Bridges. No. 1,138,187; May 4; Gaz. vol. 214; p. 164.
- Faucet. F. C. Busch. No. 1,165,940; Dec. 28; Gaz. vol. 221; p. 1244.
- Faucet. G. M. Charles. No. 1,148,217; July 27; Gaz. vol. 216; p. 1203.
- Faucet. M. Denzinger. No. 1,139,754; May 18; Gaz. vol. 214; p. 788.
- Faucet. G. G. Ekonomou. No. 1,145,128; July 6; Gaz. vol. 216; p. 54.
- Faucet. M. A. Forster. No. 1,164,600; Dec. 14; Gaz. vol. 221; p. 696.
- Faucet. R. Hilton. No. 1,165,672; Dec. 28; Gaz. vol. 221; p. 1152.
- Faucet. C. M. Hoffman. No. 1,147,943; July 27; Gaz. vol. 216; p. 1106.
- Faucet. H. B. Killefer and W. J. Boyd. No. 1,159,685; Nov. 9; Gaz. vol. 220; p. 478.
- Faucet. N. Krohn. No. 1,125,564; Jan. 19; Gaz. vol. 210; p. 912.
- Faucet. H. Luft. No. 1,135,907; Apr. 13; Gaz. vol. 213; p. 688.
- Faucet. H. Macdonald. No. 1,138,604; May 4; Gaz. vol. 214; p. 307.
- Faucet. P. A. Mahoney. No. 1,161,873; Nov. 30; Gaz. vol. 220; p. 1396.
- Faucet. C. E. McLaren. No. 1,129,215; Feb. 23; Gaz. vol. 211; p. 1017.
- Faucet. A. W. Oare. No. 1,154,048; Sept. 21; Gaz. vol. 218; p. 667.
- Faucet. E. C. Post. No. 1,134,157; Apr. 6; Gaz. vol. 213; p. 26.
- Faucet. J. C. Ross and G. F. McCulley. No. 1,148,193; July 27; Gaz. vol. 216; p. 1196.
- Faucet. D. Scanlan. No. 1,145,271; July 6; Gaz. vol. 216; p. 103.
- Faucet. E. C. Stearns. No. 1,164,556; Dec. 14; Gaz. vol. 221; p. 682.
- Faucet. G. M. Woodman. No. 1,133,521; Mar. 30; Gaz. vol. 212; p. 1458.
- Faucet. C. F. Wray. No. 1,155,984; Oct. 5; Gaz. vol. 219; p. 228.
- Faucet and fountain, Combined. G. H. Penrod. No. 1,150,963; Aug. 24; Gaz. vol. 217; p. 1100.
- Faucet attachment. C. Gluckman. No. 1,163,081; Dec. 7; Gaz. vol. 221; p. 121.
- Faucet attachment. F. A. Jones. No. 1,142,579; June 8; Gaz. vol. 215; p. 562.
- Faucet attachment. J. Regar. No. 1,163,457; Dec. 7; Gaz. vol. 221; p. 253.
- Faucet attachment for shower-baths. C. E. Shapley. No. 1,146,353; July 13; Gaz. vol. 216; p. 501.
- Faucet, Beer-. R. A. Champion. No. 1,162,035; Nov. 30; Gaz. vol. 220; p. 1453.
- Faucet, Beer-. W. Griesser. No. 1,156,774; Oct. 12; Gaz. vol. 219; p. 530.
- Faucet, Combination-. F. M. Wright. No. 1,160,484; Nov. 16; Gaz. vol. 220; p. 814.
- Faucet, Double-seat. R. J. Holzer. No. 1,163,236; Dec. 7; Gaz. vol. 221; p. 175.
- Faucet, Filtering-. M. Harloe. No. 1,149,911; Aug. 10; Gaz. vol. 217; p. 614.
- Faucet for dispensing soda-water. L. E. Green. No. 1,159,836; Nov. 9; Gaz. vol. 220; p. 534.
- Faucet for liquid-dispensing fountains. M. J. Hopkins. No. 1,135,877; Apr. 13; Gaz. vol. 213; p. 501.
- Faucet for urns. C. Harvey. No. 1,153,428; Sept. 14; Gaz. vol. 218; p. 415.
- Faucet, Fountain-. S. Schwartz. No. 1,127,683; Feb. 9; Gaz. vol. 211; p. 394.
- Faucet, Liquid-measuring. A. Mass. No. 1,159,976; Nov. 9; Gaz. vol. 220; p. 584.
- Faucet, Measuring-. T. F. Staley. No. 1,164,233; Dec. 14; Gaz. vol. 221; p. 567.
- Faucet, Mineral-. R. E. Ball. No. 1,135,345; Apr. 13; Gaz. vol. 213; p. 490.
- Faucet or cock. H. J. McGivern. No. 1,137,343; Apr. 27; Gaz. vol. 213; p. 1280.
- Faucet or valve. W. E. Taft. No. 1,160,342; Nov. 16; Gaz. vol. 220; p. 764.
- Faucet, Safety-. C. Frank. No. 1,153,863; Sept. 14; Gaz. vol. 218; p. 569.
- Faucet, Self-closing. T. H. Kenney. No. 1,156,010; Oct. 5; Gaz. vol. 219; p. 237.
- Faucet, Soda-water. J. A. McCormick. No. 1,141,472; June 1; Gaz. vol. 215; p. 139.
- Faucets, Attachable two-way outlet for hot and cold water. I. W. Little. No. 1,146,804; July 20; Gaz. vol. 216; p. 680.
- Faucets, Connecting-pipe for. R. D. Gould. No. 1,133,954; Mar. 30; Gaz. vol. 212; p. 1611.
- Faucets, Safety attachment for valves for. B. E. Smith. No. 1,153,264; Sept. 14; Gaz. vol. 218; p. 356.
- Faucets, Self-closing attachment for. A. J. Collar. No. 1,142,145; June 8; Gaz. vol. 215; p. 409.
- Faucets, Two-way outlet for hot and cold water. I. W. Little. No. 1,160,627; Nov. 16; Gaz. vol. 220; p. 866.
- Fault-detector. W. H. Cole. No. 1,152,880; Sept. 7; Gaz. vol. 218; p. 184.
- Feather, Artificial. S. Aronson. No. 1,152,137; Aug. 31; Gaz. vol. 217; p. 1548.
- Feather, Artificial. G. R. Shevill. No. 1,126,104; Jan. 26; Gaz. vol. 210; p. 1140.
- Feather-curling machine. A. E. Zumpe. No. 1,142,868; June 15; Gaz. vol. 215; p. 700.
- Feather-fastener. W. T. J. Lynch. No. 1,155,428; Oct. 5; Gaz. vol. 219; p. 36.
- Feed and water dispenser, Automatic. K. and J. Wood-izka. No. 1,134,934; Apr. 6; Gaz. vol. 213; p. 303.
- Feed-bag. D. J. Bowen. No. 1,154,229; Sept. 21; Gaz. vol. 218; p. 728.
- Feed-bag. J. Bresnahan. No. 1,145,744; July 6; Gaz. vol. 216; p. 270.
- Feed-bag. W. H. Steffens. No. 1,155,845; Oct. 5; Gaz. vol. 219; p. 182.
- Feed-bag. G. W. Waddell. No. 1,157,471; Oct. 19; Gaz. vol. 219; p. 807.
- Feed-bag for horses. J. H. Huckle, Jr. No. 1,155,238; Sept. 28; Gaz. vol. 218; p. 1102.
- Feed-bag support. L. Lazarus. No. 1,161,700; Nov. 23; Gaz. vol. 220; p. 1290.
- Feed-box, Metallic. H. M. Thayer. No. 1,153,729; Sept. 14; Gaz. vol. 218; p. 522.
- Feed-controlling device. G. H. Gilman. No. 1,151,261; Aug. 24; Gaz. vol. 217; p. 1202.
- Feed-cooler. J. E. Josey and R. C. Miller. No. 1,145,772; July 6; Gaz. vol. 216; p. 279.
- Feed-cutter. J. C. Haldeman. No. 1,155,353; Oct. 5; Gaz. vol. 219; p. 10.
- Feed-cutter. W. A. Hance. No. 1,159,935; Nov. 9; Gaz. vol. 220; p. 570.
- Feed-cutters, Comminuting attachment for. O. C. Frick. No. 1,157,095; Oct. 19; Gaz. vol. 219; p. 673.
- Feed-driving mechanism. F. Pierce. No. 1,138,970; May 11; Gaz. vol. 214; p. 477.
- Feed-gate, Automatic. J. Grimes. No. 1,126,756; Feb. 2; Gaz. vol. 211; p. 33.

Alphabetical list of inventions—Continued.

- Feed-grinder. L. Pethoud. No. 1,141,825; June 1; Gaz. vol. 215; p. 258.
- Feed-holder. E. N. Stroup. No. 1,144,157; June 22; Gaz. vol. 215; p. 1176.
- Feed mechanism. R. M. Vinyard. No. 1,135,868; Apr. 13; Gaz. vol. 213; p. 675.
- Feed mechanism. R. L. Wilcox. No. 1,135,239; Apr. 13; Gaz. vol. 213; p. 453.
- Feed, Mechanism independently controlling each. R. T. Hazelton. No. 1,125,905; Jan. 19; Gaz. vol. 210; p. 1033.
- Feed mixer and carrier. J. M. Moore. No. 1,141,000; May 25; Gaz. vol. 214; p. 1261.
- Feed-mixing machine. W. D. Nash. No. 1,134,220; Apr. 6; Gaz. vol. 213; p. 50.
- Feed-pressure regulator. G. S. Melcher. No. 1,155,076; Sept. 28; Gaz. vol. 218; p. 1047.
- Feed-rack. J. A. Murr. No. 1,137,653; Apr. 27; Gaz. vol. 213; p. 1384.
- Feed-rack. F. B. Towle. No. 1,129,761; Feb. 23; Gaz. vol. 211; p. 1205.
- Feed-regulator. W. C. Lane and E. J. Allen. No. 1,143,634; June 22; Gaz. vol. 215; p. 993.
- Feed-regulator. J. Woodward. No. 1,155,459; Oct. 5; Gaz. vol. 219; p. 47.
- Feed-roller mechanism for pinion-rod cutting. E. Pederquist. (Reissue.) No. 13,971; Aug. 24; Gaz. vol. 217; p. 1311.
- Feed-trough. J. P. Kendrick. No. 1,142,176; June 8; Gaz. vol. 215; p. 420.
- Feed-trough. J. Matthews. No. 1,126,815; Feb. 2; Gaz. vol. 211; p. 53.
- Feed-trough. M. D. Stocking. No. 1,126,907; Feb. 2; Gaz. vol. 211; p. 85.
- Feed-trough, Animal. J. H. Derr. No. 1,159,190; Nov. 2; Gaz. vol. 220; p. 272.
- Feed-water heater. C. H. Billingsley. No. 1,143,605; June 22; Gaz. vol. 215; p. 983.
- Feed-water heater. F. Eberhart. No. 1,151,577; Aug. 31; Gaz. vol. 217; p. 1355.
- Feed-water heater. O. Fisher. No. 1,134,324; Apr. 6; Gaz. vol. 213; p. 88.
- Feed-water heater. S. S. Lawson. No. 1,130,412; Mar. 2; Gaz. vol. 212; p. 199.
- Feed-water heater. F. Mankowsky. No. 1,151,893; Aug. 31; Gaz. vol. 217; p. 1465.
- Feed-water heater. F. McHugh. No. 1,148,605; Aug. 3; Gaz. vol. 217; p. 44.
- Feed-water heater. C. V. Wallace. No. 1,157,472; Oct. 19; Gaz. vol. 219; p. 807.
- Feed-water heater and weir-meter, Combined. D. R. Yarnall. No. 1,159,148; Nov. 2; Gaz. vol. 220; p. 255.
- Feed-water-heater regulator. J. O. Thiel. No. 1,146,669; July 13; Gaz. vol. 216; p. 613.
- Feed-water-heater separator. J. M. Noll and F. J. Miller. No. 1,134,633; Apr. 6; Gaz. vol. 213; p. 200.
- Feed-water-heating apparatus. Boiler. D. B. Morison. No. 1,148,182; July 27; Gaz. vol. 216; p. 1192.
- Feed-water-heating apparatus. Boiler. D. B. Morison. No. 1,163,436; Dec. 7; Gaz. vol. 221; p. 245.
- Feed-water-heating system. S. S. Lawson. No. 1,162,937; Dec. 7; Gaz. vol. 221; p. 70.
- Feed-water purifier. K. Pecz and K. Rejtö. No. 1,147,044; July 20; Gaz. vol. 216; p. 765.
- Feed-water purifier and boiler-skimmer. H. M. Nye. No. 1,166,245; Dec. 28; Gaz. vol. 221; p. 1357.
- Feed-water regulator. A. R. Dodge. No. 1,154,592; Sept. 21; Gaz. vol. 218; p. 854.
- Feed-water regulator. L. B. Fulton. No. 1,123,270; Jan. 5; Gaz. vol. 210; p. 23.
- Feed-water regulator. L. B. Fulton. No. 1,123,864; Jan. 5; Gaz. vol. 210; p. 228.
- Feed-water regulator. L. B. Fulton. No. 1,131,690; Mar. 16; Gaz. vol. 212; p. 710.
- Feed-water regulator. R. B. Hobson. No. 1,124,225; Jan. 5; Gaz. vol. 210; p. 351.
- Feed-water regulator. H. McCabe. No. 1,148,107; July 27; Gaz. vol. 216; p. 1165.
- Feed-water regulator. H. McCabe. No. 1,148,108; July 27; Gaz. vol. 216; p. 1166.
- Feed-water regulator. H. McCabe. No. 1,148,109; July 27; Gaz. vol. 216; p. 1166.
- Feed-water regulator, Automatic. A. R. Dodge. No. 1,154,591; Sept. 21; Gaz. vol. 218; p. 853.
- Feed-water regulator, Steam-boiler. H. W. Spencer. No. 1,150,399; Aug. 17; Gaz. vol. 217; p. 848.
- Feed-water system. W. A. Moffat. No. 1,162,638; Nov. 30; Gaz. vol. 220; p. 1658.
- Feed-water tank. J. W. Heid. No. 1,162,356; Nov. 30; Gaz. vol. 220; p. 1566.
- Feeder. J. Q. and A. T. Adams. No. 1,150,091; Aug. 17; Gaz. vol. 217; p. 738.
- Feeder and exerciser, Chicken. H. J. Becker. No. 1,144,920; June 29; Gaz. vol. 215; p. 1468.
- Feeder, Animal. F. M. Giltner. No. 1,188,102; May 4; Gaz. vol. 214; p. 134.
- Feeder, Automatic live-stock. J. C. Simpson. No. 1,164,416; Dec. 14; Gaz. vol. 221; p. 634.
- Feeder, Automatic poultry. W. A. Sexton. No. 1,141,981; June 8; Gaz. vol. 215; p. 349.
- Feeder, Automatic stock. C. Caspari. No. 1,124,859; Jan. 12; Gaz. vol. 210; p. 627.
- Feeder, Automatic stock. E. J. Smith. No. 1,136,843; Apr. 20; Gaz. vol. 213; p. 1060.
- Feeder, Calif. J. Moore. No. 1,127,797; Feb. 9; Gaz. vol. 211; p. 438.
- Feeder, Chick. F. Enos, Jr. No. 1,138,365; May 4; Gaz. vol. 214; p. 227.
- Feeder, Chicken. W. F. Dreibelbis. No. 1,123,501; Jan. 5; Gaz. vol. 210; p. 104.
- Feeder, Chicken. W. F. Dreibelbis. No. 1,143,756; June 22; Gaz. vol. 215; p. 1034.
- Feeder, Chicken. J. B. Yeakel. No. 1,127,572; Feb. 9; Gaz. vol. 211; p. 357.
- Feeder, Economical. J. Beane. No. 1,125,044; Jan. 19; Gaz. vol. 210; p. 727.
- Feeder for comminuted material, Siphonic. H. B. Pruden. No. 1,165,444; Dec. 28; Gaz. vol. 221; p. 1072.
- Feeder, Hog. J. B. Hershey. No. 1,141,059; May 25; Gaz. vol. 214; p. 1280.
- Feeder, Hog. C. H. Stocking. No. 1,154,073; Sept. 21; Gaz. vol. 218; p. 675.
- Feeder, Live-stock. R. Henderson. No. 1,138,950; May 11; Gaz. vol. 214; p. 470.
- Feeder, Poultry. S. A. Drake. No. 1,131,491; Mar. 9; Gaz. vol. 212; p. 606.
- Feeder, Poultry. F. Enos, Jr. No. 1,148,301; July 27; Gaz. vol. 216; p. 1233.
- Feeder, Poultry. W. J. R. Long. No. 1,147,180; July 20; Gaz. vol. 216; p. 811.
- Feeder, Poultry. I. S. Rector. No. 1,148,405; July 27; Gaz. vol. 216; p. 1270.
- Feeder, Poultry. C. H. Stocking. No. 1,148,873; Aug. 3; Gaz. vol. 217; p. 138.
- Feeder, Poultry. S. F. Zenger. No. 1,162,010; Nov. 30; Gaz. vol. 220; p. 1445.
- Feeder, Stock. J. and W. Rau. No. 1,151,901; Aug. 31; Gaz. vol. 217; p. 1468.
- Feeder, Swine. J. F. Myers. No. 1,156,428; Oct. 12; Gaz. vol. 219; p. 409.
- Feeders, Register device for. W. B. Story. No. 1,160,210; Nov. 16; Gaz. vol. 220; p. 718.
- Feeders, Register device for. W. B. Story. No. 1,161,014; Nov. 16; Gaz. vol. 220; p. 1003.
- Feeders, Stripping device for. H. J. Rogers. No. 1,146,282; July 13; Gaz. vol. 216; p. 477.
- Feeding apparatus. H. C. Colburn. No. 1,149,426; Aug. 10; Gaz. vol. 217; p. 438.
- Feeding apparatus. H. C. Colburn. No. 1,149,427; Aug. 10; Gaz. vol. 217; p. 439.
- Feeding apparatus. G. P. Rexroat. No. 1,155,684; Oct. 5; Gaz. vol. 219; p. 125.
- Feeding device. A. Ensor. No. 1,136,322; Apr. 20; Gaz. vol. 213; p. 875.
- Feeding device. J. T. Quigley. No. 1,156,037; Oct. 5; Gaz. vol. 219; p. 247.
- Feeding device. O. Sharp. No. 1,146,108; July 13; Gaz. vol. 216; p. 416.
- Feeding device. J. Tomlinson. No. 1,159,623; Nov. 9; Gaz. vol. 220; p. 457.
- Feeding device for fowls, Adjustable hopper and trough. J. E. Thompson. No. 1,149,477; Aug. 10; Gaz. vol. 217; p. 455.
- Feeding device, Horse. R. O. Gallinger. No. 1,144,936; June 29; Gaz. vol. 215; p. 1470.
- Feeding device, Poultry. L. C. Edwards. No. 1,132,836; Mar. 23; Gaz. vol. 212; p. 1177.
- Feeding device, Poultry. F. Feuerstein. No. 1,142,687; June 8; Gaz. vol. 215; p. 597.
- Feeding device, Poultry. R. S. Gitt. No. 1,125,839; Jan. 19; Gaz. vol. 210; p. 1010.
- Feeding device, Poultry. I. M. Graham. No. 1,128,971; Feb. 16; Gaz. vol. 211; p. 898.
- Feeding finely-divided material, Apparatus for. W. S. Quigley. No. 1,128,043; Feb. 9; Gaz. vol. 211; p. 524.
- Feeding individual pieces, Device for. C. W. Graham. No. 1,158,045; Oct. 26; Gaz. vol. 219; p. 1069.
- Feeding live stock, Composition of matter to be used for. J. F. Weaver. No. 1,135,417; Apr. 13; Gaz. vol. 213; p. 516.
- Feeding mechanism. C. A. Cheshire. No. 1,160,846; Nov. 16; Gaz. vol. 220; p. 944.
- Feeding mechanism. M. Kraut. No. 1,162,291; Nov. 30; Gaz. vol. 220; p. 1543.
- Feeding mechanism. F. B. Redington and M. J. Milroe. No. 1,158,287; Oct. 26; Gaz. vol. 219; p. 1154.
- Feeding mechanism, Alternating. T. Ward. No. 1,158,088; Oct. 26; Gaz. vol. 219; p. 1084.
- Feeding mechanism, Differential. D. S. Seymour. No. 1,147,047; July 20; Gaz. vol. 216; p. 765.
- Feeding sheep and cattle, Means for use in. F. Adams. No. 1,155,189; Sept. 28; Gaz. vol. 218; p. 1088.
- Feeding trough, Hog. E. Carlson. No. 1,137,460; Apr. 27; Gaz. vol. 213; p. 1321.
- Feeding utensil. H. C. Roultry. No. 1,128,190; Feb. 9; Gaz. vol. 211; p. 576.
- Feldspar for use as a fertilizer, Treating. C. W. Drury. No. 1,150,815; Aug. 17; Gaz. vol. 217; p. 991.
- Feldspar, leucite, and the like, Treatment of. F. A. Rody. No. 1,151,533; Aug. 24; Gaz. vol. 217; p. 1293.
- Feldspar, leucite, and the like, Treatment of. F. A. Rody and H. M. Burkey. No. 1,151,498; Aug. 24; Gaz. vol. 217; p. 1281.

Alphabetical list of inventions—Continued.

- Felling machine, Blindstitch-. W. Arbetter. No. 1,152,871; Sept. 7; Gaz. vol. 218; p. 181.
- Felly-band. J. Kelsey. No. 1,139,772; May 18; Gaz. vol. 214; p. 795.
- Felly-band for vehicle-wheels, Demountable. J. E. Perault. No. 1,152,543; Sept. 7; Gaz. vol. 218; p. 61.
- Felly-tightener. E. Miller. No. 1,142,903; June 15; Gaz. vol. 215; p. 712.
- Felt-making machines, Wrist-pin for. F. A. Headson. No. 1,137,757; May 4; Gaz. vol. 214; p. 12.
- Felt-whipper. B. D. Coppage. No. 1,145,407; July 6; Gaz. vol. 216; p. 151.
- Felting device. E. J. Noble. No. 1,145,917; July 13; Gaz. vol. 216; p. 349.
- Fence. J. L. Bondy. No. 1,136,999; Apr. 27; Gaz. vol. 213; p. 1153.
- Fence. F. Fisher. No. 1,146,857; July 20; Gaz. vol. 216; p. 698.
- Fence. J. Krolkowski. No. 1,130,089; Mar. 2; Gaz. vol. 212; p. 86.
- Fence-anchor. H. Mann. No. 1,146,191; July 13; Gaz. vol. 216; p. 445.
- Fence and conveyer for the same, Portable. G. Ljeso. No. 1,161,704; Nov. 23; Gaz. vol. 220; p. 1291.
- Fence clamp, Wire-. M. S. Eglinton. No. 1,133,625; Mar. 30; Gaz. vol. 212; p. 1497.
- Fence clamp, Wire-. W. E. Payne. No. 1,130,328; Mar. 2; Gaz. vol. 212; p. 168.
- Fence clamp, Wire-. T. L. Randall and G. W. Lester. No. 1,144,432; June 29; Gaz. vol. 215; p. 1300.
- Fence clamp, Wire-. W. G. Robinson. No. 1,155,276; Sept. 28; Gaz. vol. 218; p. 1113.
- Fence clamp, Wire-. D. E. Stevens. No. 1,133,192; Mar. 23; Gaz. vol. 212; p. 1306.
- Fence-fabric machines, Stay-feed regulator for wire-. W. Herman. No. 1,151,784; Aug. 31; Gaz. vol. 217; p. 1426.
- Fence-fabric stretcher, Woven-wire-. S. W. Tate. No. 1,139,238; May 11; Gaz. vol. 214; p. 571.
- Fence fabric, Wire-. N. C. Bull. No. 1,161,607; Nov. 23; Gaz. vol. 220; p. 1258.
- Fence, Flood-. S. Blye. No. 1,161,375; Nov. 23; Gaz. vol. 220; p. 1179.
- Fence, Folding. I. Krawczyk. No. 1,147,409; July 20; Gaz. vol. 216; p. 893.
- Fence-machine. J. Slomer. No. 1,160,332; Nov. 16; Gaz. vol. 220; p. 760.
- Fence-machine feeding mechanism, Wire-. A. C. Mills. No. 1,146,195; July 13; Gaz. vol. 216; p. 447.
- Fence machine, Wire-. C. H. Haisley. No. 1,163,404; Dec. 7; Gaz. vol. 221; p. 234.
- Fence machine, Wire-. G. A. Raymond. No. 1,149,596; Aug. 10; Gaz. vol. 217; p. 497.
- Fence machine, Wire-. F. A. and W. V. Reid and J. Kelley. No. 1,160,089; Nov. 9; Gaz. vol. 220; p. 622.
- Fence-making machine. A. C. Mills. No. 1,146,194; July 13; Gaz. vol. 216; p. 447.
- Fence-making machine, Wire-. G. H. Cocks. No. 1,130,570; Mar. 2; Gaz. vol. 212; p. 256.
- Fence, Portable. J. Demares. No. 1,131,681; Mar. 16; Gaz. vol. 212; p. 707.
- Fence, Portable. J. Horvath. No. 1,130,287; Mar. 2; Gaz. vol. 212; p. 155.
- Fence, Portable. S. H. Wells. No. 1,131,302; Mar. 9; Gaz. vol. 212; p. 541.
- Fence-post. H. K. Bente. No. 1,144,288; June 22; Gaz. vol. 215; p. 1222.
- Fence-post. J. M. Dillon. No. 1,142,406; June 8; Gaz. vol. 215; p. 503.
- Fence-post. W. J. Faunt. No. 1,125,827; Jan. 19; Gaz. vol. 210; p. 1007.
- Fence-post. H. L. Ferris. No. 1,158,911; Nov. 2; Gaz. vol. 220; p. 176.
- Fence-post. J. E. Fussell. No. 1,153,380; Sept. 14; Gaz. vol. 218; p. 398.
- Fence-post. H. H. Gerken. No. 1,160,709; Nov. 16; Gaz. vol. 220; p. 897.
- Fence-post. S. G. Gillespie. No. 1,165,589; Dec. 28; Gaz. vol. 221; p. 1121.
- Fence-post. F. Grandjean. No. 1,142,321; June 8; Gaz. vol. 215; p. 470.
- Fence-post. F. Grandjean. No. 1,160,068; Nov. 9; Gaz. vol. 220; p. 614.
- Fence-post. P. J. Hindmarsh. No. 1,140,156; May 18; Gaz. vol. 214; p. 931.
- Fence-post. H. F. Jones and D. Hathaway. No. 1,161,865; Nov. 30; Gaz. vol. 220; p. 1394.
- Fence-post. L. H. Jones. No. 1,150,373; Aug. 17; Gaz. vol. 217; p. 838.
- Fence-post. J. Kukosz. No. 1,129,350; Feb. 23; Gaz. vol. 211; p. 1064.
- Fence-post. J. Lucas. No. 1,123,333; Jan. 5; Gaz. vol. 210; p. 47.
- Fence-post. C. L. Michod. No. 1,159,856; Nov. 9; Gaz. vol. 220; p. 542.
- Fence-post. W. H. Phelps. No. 1,124,511; Jan. 12; Gaz. vol. 210; p. 501.
- Fence-post. W. C. Stuber. No. 1,154,740; Sept. 28; Gaz. vol. 218; p. 932.
- Fence-post. E. T. Warren. No. 1,153,983; Sept. 21; Gaz. vol. 218; p. 644.
- Fence-post and wire-fastening means therefor, Metal. H. L. Leilich and F. W. Burger. No. 1,136,471; Apr. 20; Gaz. vol. 213; p. 929.
- Fence-post and wire-fence-fastening means, Metallic. H. A. Paxton. No. 1,153,403; Sept. 14; Gaz. vol. 218; p. 406.
- Fence-post cap. J. Eisenmenger. No. 1,130,076; Mar. 2; Gaz. vol. 212; p. 81.
- Fence-post-making machine. E. E. McCord. No. 1,135,538; Apr. 13; Gaz. vol. 213; p. 558.
- Fence-post mold. M. Burris. No. 1,147,075; July 20; Gaz. vol. 216; p. 775.
- Fence-post mold, Cement-. S. D. Hoy. No. 1,134,854; Apr. 6; Gaz. vol. 213; p. 277.
- Fence-post mold, Portable. G. Armbruster. No. 1,131,653; Mar. 16; Gaz. vol. 212; p. 696.
- Fence-post, Plastic. L. A. Wagner. No. 1,162,322; Nov. 30; Gaz. vol. 220; p. 1554.
- Fence-repairer, Wire-. W. J. Smith. No. 1,161,740; Nov. 23; Gaz. vol. 220; p. 1303.
- Fence, Sectional. P. L. Bryning. No. 1,142,233; June 8; Gaz. vol. 215; p. 440.
- Fence, Snow-. G. M. Rhoades. No. 1,165,906; Dec. 28; Gaz. vol. 221; p. 1233.
- Fence-stay. A. C. Benson. No. 1,136,088; Apr. 20; Gaz. vol. 213; p. 791.
- Fence stretcher, Wire-. J. Olson. No. 1,157,324; Oct. 19; Gaz. vol. 219; p. 755.
- Fence stretcher, Wire-. S. S. Roberts. No. 1,144,064; June 22; Gaz. vol. 215; p. 1141.
- Fence stretching and holding tool, Wire-. C. M. Himes. No. 1,151,013; Aug. 24; Gaz. vol. 217; p. 1117.
- Fence-stretching device. L. Losure. No. 1,158,942; Nov. 2; Gaz. vol. 220; p. 186.
- Fence tightener, Wire-. G. Bull. No. 1,151,161; Aug. 24; Gaz. vol. 217; p. 1168.
- Fence-tightening device. C. L. Loftus. No. 1,138,127; May 4; Gaz. vol. 214; p. 144.
- Fence, Tile. H. R. Straight. No. 1,151,974; Aug. 31; Gaz. vol. 217; p. 1492.
- Fence tool, Wire-. W. Kyllonen. No. 1,158,242; Oct. 26; Gaz. vol. 219; p. 1138.
- Fence tool, Wire-. J. C. Mahan. No. 1,143,414; June 15; Gaz. vol. 215; p. 894.
- Fence tool, Wire-. G. W. Murphy. No. 1,131,539; Mar. 9; Gaz. vol. 212; p. 622.
- Fence, Wire. G. Hutchinson. No. 1,141,394; June 1; Gaz. vol. 215; p. 110.
- Fence-wire clamp. H. J. Folkerts. No. 1,146,489; July 13; Gaz. vol. 216; p. 553.
- Fence-wire fastener. C. B. Duden. No. 1,165,158; Dec. 21; Gaz. vol. 221; p. 934.
- Fence-wire stretcher. T. F. Gleason. No. 1,126,445; Jan. 26; Gaz. vol. 210; p. 1261.
- Fences, Combined post and tension device for wire. C. D. Bennett. No. 1,128,095; Feb. 9; Gaz. vol. 211; p. 543.
- Fencing-droppers, Machine for making. F. H. Sleeper. No. 1,148,467; July 27; Gaz. vol. 216; p. 1290.
- Fencing-fastener. E. T. Silvius. No. 1,129,610; Feb. 23; Gaz. vol. 211; p. 1157.
- Fencing-posts and the like, Anchorage for. G. Hutchinson. No. 1,145,312; July 6; Gaz. vol. 216; p. 117.
- Fencing-strand. T. L. Sturtevant. No. 1,142,126; June 8; Gaz. vol. 215; p. 404.
- Fencing-wires to standards or droppers, Means for use in attaching. P. A. McHardy. No. 1,162,628; Nov. 30; Gaz. vol. 220; p. 1655.
- Fender: See—
- | | |
|----------------------------------|---------------------|
| Agricultural - implement fender. | Illuminated fender. |
| Auto-fender. | Plow-fender. |
| Automatic fender. | Safety-fender. |
| Automobile-fender. | Ship-fender. |
| Car-fender. | Truck-fender. |
| Cultivator-fender. | Vehicle-fender. |
| Dirigible fender. | Wheel-fender. |
| | Wheel-tread fender. |
- Fender. V. A. Adamec. No. 1,160,030; Nov. 9; Gaz. vol. 220; p. 601.
- Fender. C. S. Banghart. No. 1,136,642; Apr. 20; Gaz. vol. 213; p. 989.
- Fender. C. H. Barton. No. 1,137,829; May 4; Gaz. vol. 214; p. 37.
- Fender. R. D. Braddy. No. 1,154,478; Sept. 21; Gaz. vol. 218; p. 814.
- Fender. J. H. Brown. No. 1,159,170; Nov. 2; Gaz. vol. 220; p. 263.
- Fender. J. W. Clickstine. No. 1,137,577; Apr. 27; Gaz. vol. 213; p. 1360.
- Fender. O. M. Goode. No. 1,153,779; Sept. 14; Gaz. vol. 218; p. 539.
- Fender. J. F. Green and H. B. Mauck. No. 1,137,606; Apr. 27; Gaz. vol. 213; p. 1369.
- Fender. W. H. Jennings. No. 1,137,627; Apr. 27; Gaz. vol. 213; p. 1376.
- Fender. J. E. Jones. No. 1,148,091; July 27; Gaz. vol. 216; p. 1160.
- Fender. E. V. Peterson. No. 1,159,263; Nov. 2; Gaz. vol. 220; p. 207.
- Fender. F. Robinson. No. 1,145,705; July 6; Gaz. vol. 216; p. 256.
- Fender. M. M. Shaw. No. 1,149,958; Aug. 10; Gaz. vol. 217; p. 630.

Alphabetical list of inventions—Continued.

- Fender. M. Soldate and F. J. Klaas. No. 1,126,897; Feb. 2; Gaz. vol. 211; p. 81.
- Fender. J. J. Toland. No. 1,150,557; Aug. 17; Gaz. vol. 217; p. 903.
- Fender. M. Warner. No. 1,157,198; Oct. 19; Gaz. vol. 219; p. 710.
- Fender and brake, Combined. W. S. Milner. No. 1,125,865; Jan. 19; Gaz. vol. 210; p. 1018.
- Fender and wheel-brake, Combined. W. L. Bennett. No. 1,164,569; Dec. 14; Gaz. vol. 221; p. 685.
- Fender, Automatic. F. R. Woolley, Jr. No. 1,137,563; Apr. 27; Gaz. vol. 213; p. 1355.
- Fender or the like. O. A. Ross. No. 1,140,336; May 18; Gaz. vol. 214; p. 993.
- Fender-shovel. E. Gausman. No. 1,165,965; Dec. 28; Gaz. vol. 221; p. 1252.
- Fenestration, System of. H. C. Leichenring. No. 1,165,684; Dec. 28; Gaz. vol. 221; p. 1156.
- Ferment and producing and preserving the same. H. A. Kohman. No. 1,149,839; Aug. 10; Gaz. vol. 217; p. 588.
- Fermentation. A. Molhant. No. 1,124,500; Jan. 12; Gaz. vol. 210; p. 498.
- Ferries, Automatic coupling device for. W. H. Seltzer. No. 1,154,133; Sept. 21; Gaz. vol. 218; p. 696.
- Ferry-landing mechanism. H. T. Goss. No. 1,160,506; Nov. 16; Gaz. vol. 220; p. 822.
- Ferrochromium, Producing carbon-free. H. Goldschmidt and O. Weil. No. 1,136,669; Apr. 20; Gaz. vol. 213; p. 999.
- Ferrosilicon alloys of a definite composition. H. C. Harrison. No. 1,134,129; Apr. 6; Gaz. vol. 213; p. 16.
- Ferrosilicon product and continuously producing the same. H. C. Harrison. No. 1,134,128; Apr. 6; Gaz. vol. 213; p. 16.
- Ferrosilicon product and making the same, Crystalline. H. C. Harrison. No. 1,134,127; Apr. 6; Gaz. vol. 213; p. 16.
- Ferruginous zinc-chlorid solution, Treating. S. H. Lawton. No. 1,137,871; May 4; Gaz. vol. 214; p. 52.
- Ferrule for bobbins, Protecting. L. C. Baldwin and J. N. Anderson. No. 1,145,662; July 6; Gaz. vol. 216; p. 241.
- Ferrule, Handle. E. J. Renkenberger. No. 1,144,382; June 29; Gaz. vol. 215; p. 1282.
- Fertilizer. T. A. Hilliard. No. 1,128,446; Feb. 16; Gaz. vol. 211; p. 713.
- Fertilizer. T. L. Willson and M. M. Haff. No. 1,146,222; July 13; Gaz. vol. 216; p. 457.
- Fertilizer. T. L. Willson and M. M. Haff. No. 1,166,104; Dec. 28; Gaz. vol. 221; p. 1301.
- Fertilizer-agitator. W. A. Van Brunt and N. R. Nelson. No. 1,151,742; Aug. 31; Gaz. vol. 217; p. 1411.
- Fertilizer and making the same, Nitrate. A. Messerschmitt. No. 1,135,387; Apr. 13; Gaz. vol. 213; p. 505.
- Fertilizer and manufacturing same. L. Kern. No. 1,144,905; June 29; Gaz. vol. 215; p. 1461.
- Fertilizer and producing same. C. A. Black and W. H. Teare. No. 1,140,437; May 25; Gaz. vol. 214; p. 1063.
- Fertilizer composition and making it. T. L. Willson and M. M. Haff. No. 1,145,107; July 6; Gaz. vol. 216; p. 48.
- Fertilizer containing lime nitrogen and tankage material. F. S. Washburn. No. 1,135,639; Apr. 13; Gaz. vol. 213; p. 595.
- Fertilizer. Converting meadow or swamp land into. B. Reichelt. No. 1,154,760; Apr. 6; Gaz. vol. 213; p. 248.
- Fertilizer device. H. Ray. No. 1,133,182; Mar. 23; Gaz. vol. 212; p. 1303.
- Fertilizer-distributor. J. R. Ayers. No. 1,161,371; Nov. 23; Gaz. vol. 220; p. 1177.
- Fertilizer-distributor. E. L. Beezley and F. Lane. No. 1,135,492; Apr. 13; Gaz. vol. 213; p. 542.
- Fertilizer-distributor. L. A. Bevis. No. 1,165,490; Dec. 28; Gaz. vol. 221; p. 1087.
- Fertilizer-distributor. W. W. Birnstock. No. 1,155,204; Sept. 28; Gaz. vol. 218; p. 1092.
- Fertilizer-distributor. W. D. Cameron. No. 1,162,903; Dec. 7; Gaz. vol. 221; p. 58.
- Fertilizer-distributor. A. D. Cox. No. 1,157,370; Oct. 19; Gaz. vol. 219; p. 771.
- Fertilizer-distributor. J. D. Curtis. No. 1,164,579; Dec. 14; Gaz. vol. 221; p. 688.
- Fertilizer-distributor. R. Love. No. 1,125,139; Jan. 19; Gaz. vol. 210; p. 760.
- Fertilizer-distributor. J. J. McDonald. No. 1,158,700; Nov. 2; Gaz. vol. 220; p. 101.
- Fertilizer-distributor. A. McWhorter. No. 1,134,688; Apr. 6; Gaz. vol. 213; p. 221.
- Fertilizer-distributor. J. M. Walker. No. 1,151,426; Aug. 24; Gaz. vol. 217; p. 1255.
- Fertilizer-distributor attachment. J. H. Crumpler. No. 1,144,464; June 29; Gaz. vol. 215; p. 1310.
- Fertilizer-distributors, Two-row attachment for. S. Q. Harper. No. 1,157,532; Oct. 19; Gaz. vol. 219; p. 828.
- Fertilizer, Manufacturing artificial. H. Herzfeld and O. Hauser. No. 1,125,318; Jan. 19; Gaz. vol. 210; p. 825.
- Fertilizer material and producing the same. F. S. Washburn. No. 1,151,633; Aug. 31; Gaz. vol. 217; p. 1374.
- Fertilizer-mixing machine. R. D. Soars. No. 1,123,943; Jan. 5; Gaz. vol. 210; p. 253.
- Fertilizer, Producing. S. B. Newberry and H. N. Barrett. No. 1,158,711; Nov. 2; Gaz. vol. 220; p. 105.
- Fertilizer-spreader. R. H. Watts. No. 1,132,053; Mar. 16; Gaz. vol. 212; p. 842.
- Fertilizers, disinfectants, and the like Distributor for. J. W. White, Jr. No. 1,142,292; June 8; Gaz. vol. 215; p. 460.
- Fertilizers, Making phosphate. S. B. Newberry and H. N. Barrett. No. 1,162,944; Dec. 7; Gaz. vol. 221; p. 72.
- Fertilizers, Manufacture of. W. B. Chisolm. No. 1,147,926; July 27; Gaz. vol. 216; p. 1099.
- Fertilizers, Manufacturing. J. H. Connor. No. 1,163,130; Dec. 7; Gaz. vol. 221; p. 138.
- Fertilizing, Obtaining alkali compounds useful for. T. L. Willson and M. M. Haff. No. 1,144,405; June 29; Gaz. vol. 215; p. 1290.
- Fiber and fabric treating machine, Vacuo-centrifugal. H. P. Jefferson. No. 1,164,619; Dec. 14; Gaz. vol. 221; p. 702.
- Fiber-cleaning machine. P. R. Nelson. No. 1,157,575; Oct. 19; Gaz. vol. 219; p. 840.
- Fiber feeder and mixer, Combined. H. C. Chase. No. 1,129,167; Feb. 23; Gaz. vol. 211; p. 1000.
- Fiber, Machine for making hard sheet. C. Mehlum. No. 1,124,937; Jan. 12; Gaz. vol. 210; p. 653.
- Fiber-plants, Retting and ungumming. B. Loomis. No. 1,148,698; Aug. 3; Gaz. vol. 217; p. 77.
- Fiber process. H. J. Young. No. 1,146,987; July 20; Gaz. vol. 216; p. 745.
- Fiber-trimming apparatus. M. S. Weaver. No. 1,139,609; May 18; Gaz. vol. 214; p. 737.
- Fiber-working process and product. A. L. Clapp. No. 1,148,359; July 27; Gaz. vol. 216; p. 1255.
- Fibers, Production of artificial. P. Girard and J. Sonnerly. No. 1,164,084; Dec. 14; Gaz. vol. 221; p. 519.
- Fibers, Softening and strengthening degummed vegetable. G. D. Burton. No. 1,156,462; Oct. 12; Gaz. vol. 219; p. 421.
- Fibrous composition and manufacture. J. C. Woodley. No. 1,156,122; Oct. 12; Gaz. vol. 219; p. 303.
- Fibrous composition, Manufacturing a. J. C. Woodley. No. 1,166,166; Dec. 28; Gaz. vol. 221; p. 1327.
- Fibrous material, Method and apparatus for retting. J. K. Toles. No. 1,133,590; Mar. 30; Gaz. vol. 212; p. 1483.
- Fibrous material, Mixing loose. G. M. Schüller. No. 1,134,163; Apr. 6; Gaz. vol. 213; p. 29.
- Fibrous materials, Apparatus for treating. E. D. Jefferson. No. 1,128,451; Feb. 16; Gaz. vol. 211; p. 714.
- Fibrous materials, Manufacturing stratified. M. Meirowsky. No. 1,124,777; Jan. 12; Gaz. vol. 210; p. 597.
- Fibrous pad. H. Faurot. No. 1,127,748; Feb. 9; Gaz. vol. 211; p. 419.
- Fibrous plants, Machine for treating. R. R. Roberts. No. 1,132,122; Mar. 16; Gaz. vol. 212; p. 866.
- Fibrous plants, Method and means for stripping. J. P. Chuley. No. 1,134,514; Apr. 6; Gaz. vol. 213; p. 157.
- Fibrous ring and making the same. A. H. Bogani. No. 1,146,125; July 13; Gaz. vol. 216; p. 422.
- Fifth-wheel. F. P. Buchanan. No. 1,146,235; July 13; Gaz. vol. 216; p. 461.
- Fifth-wheel. J. A. Moxey. No. 1,139,703; May 18; Gaz. vol. 214; p. 771.
- Fifth-wheel. H. S. Rader. No. 1,130,538; Mar. 2; Gaz. vol. 212; p. 246.
- Fifth-wheel for vehicles. W. O. Shadbolt. No. 1,155,623; Oct. 5; Gaz. vol. 219; p. 103.
- Fifth-wheel, Vehicle. W. O. Shadbolt. No. 1,136,176; Apr. 20; Gaz. vol. 213; p. 823.
- Figure, Air-operated. L. A. Mapel. No. 1,155,074; Sept. 28; Gaz. vol. 218; p. 1047.
- Filament and other product, Artificial. W. A. Beatty. No. 1,156,969; Oct. 19; Gaz. vol. 219; p. 628.
- Filament, Ductile. O. M. Thowless. No. 1,149,701; Aug. 10; Gaz. vol. 217; p. 538.
- Filament for audions. A. M. Nicolson. No. 1,137,275; Apr. 27; Gaz. vol. 213; p. 1254.
- Filament for incandescent electric lamps. T. A. Edison. No. 1,163,329; Dec. 7; Gaz. vol. 221; p. 208.
- Filament for incandescent lamps. F. G. Keyes. No. 1,164,614; Dec. 14; Gaz. vol. 221; p. 701.
- Filament-mounting apparatus. L. Borzychowski. No. 1,143,493; June 15; Gaz. vol. 215; p. 910.
- Filament-support. M. M. Merritt. No. 1,160,745; Nov. 16; Gaz. vol. 220; p. 910.
- Filaments, Manufacturing incandescent. R. H. Henderson. No. 1,144,595; June 29; Gaz. vol. 215; p. 1353.
- Filaments of metallic tungsten or molybdenum for electric incandescent lamps, Manufacture of incandescent. A. Lederer. No. 1,132,523; Mar. 16; Gaz. vol. 212; p. 1014.
- Filaments, Support for incandescent-lamp. A. S. Knight. No. 1,125,121; Jan. 19; Gaz. vol. 210; p. 753.
- Filaments to current-supply wires, Joining lamp. E. Weintraub. No. 1,131,189; Mar. 9; Gaz. vol. 212; p. 501.
- File. R. Savoye and H. Zacconi. No. 1,125,734; Jan. 19; Gaz. vol. 210; p. 975.
- File. C. B. Ulrich. No. 1,126,922; Feb. 2; Gaz. vol. 211; p. 90.
- File. C. B. Ulrich. No. 1,126,923; Feb. 2; Gaz. vol. 211; p. 91.
- File and binder. W. E. McLean and T. C. Coull. No. 1,150,442; Aug. 17; Gaz. vol. 217; p. 861.
- File, Bill. F. J. Kristofek. No. 1,140,750; May 25; Gaz. vol. 214; p. 1172.

Alphabetical list of inventions—Continued.

- File, Bill-. J. M. Teamer. No. 1,155,382; Oct. 5; Gaz. vol. 219; p. 19.
- File, Bill or letter. L. S. Riley. No. 1,130,631; Mar. 2; Gaz. vol. 212; p. 276.
- File-box. J. P. Hernandez. No. 1,135,282; Apr. 13; Gaz. vol. 213; p. 468.
- File-cabinet. M. Perreten. No. 1,125,391; Jan. 19; Gaz. vol. 210; p. 853.
- File-cabinet. O. M. Shannon. No. 1,146,738; July 13; Gaz. vol. 216; p. 636.
- File-cabinet. O. M. Shannon. No. 1,146,739; July 13; Gaz. vol. 216; p. 637.
- File-cabinet. A. Whitlow. No. 1,149,313; Aug. 10; Gaz. vol. 217; p. 398.
- File-case. C. A. Farmer. No. 1,148,369; July 27; Gaz. vol. 216; p. 1259.
- File-case. C. H. Smith. No. 1,133,889; Mar. 30; Gaz. vol. 212; p. 1591.
- File-containers, Follower-supporting cross-wall for. R. F. Schmidt. No. 1,163,373; Dec. 7; Gaz. vol. 221; p. 224.
- File-cutting machine. J. A. Hess. No. 1,133,800; Mar. 30; Gaz. vol. 212; p. 1559.
- File, Document-. M. Kummer. No. 1,137,765; May 4; Gaz. vol. 214; p. 15.
- File, Drawing-. A. H. Memmler. No. 1,135,310; Apr. 13; Gaz. vol. 213; p. 478.
- File, Drawing-. A. H. Memmler. No. 1,165,108; Dec. 21; Gaz. vol. 221; p. 916.
- File, Duplicate-sales-slip. S. F. Ellsworth. No. 1,129,458; Feb. 23; Gaz. vol. 211; p. 1103.
- File fastener, Letter-. J. C. Hub, Jr. No. 1,138,872; May 11; Gaz. vol. 214; p. 443.
- File for cards and the like. L. A. Lebowich. No. 1,123,326; Jan. 5; Gaz. vol. 210; p. 44.
- File holder, Card-. F. L. Hoaglin. No. 1,133,377; Mar. 30; Gaz. vol. 212; p. 1407.
- File, Loose-leaf. C. F. McBee. No. 1,151,806; Aug. 31; Gaz. vol. 217; p. 1435.
- File or account-register. F. Moinett. No. 1,158,531; Nov. 2; Gaz. vol. 220; p. 43.
- File or like cutting-tool. W. H. Denley. No. 1,154,578; Sept. 21; Gaz. vol. 218; p. 849.
- File, Paper-. O. Olsen. No. 1,164,855; Dec. 21; Gaz. vol. 221; p. 828.
- File protector, Clip-. W. R. Smith. No. 1,136,729; Apr. 20; Gaz. vol. 213; p. 1021.
- File, Vertical. L. H. Evans. No. 1,137,389; Apr. 27; Gaz. vol. 213; p. 1296.
- File, Vertical. C. B. Ulrich. No. 1,126,921; Feb. 2; Gaz. vol. 211; p. 90.
- Files, File-sheet for loose-leaf. C. F. McBee. No. 1,134,143; Apr. 6; Gaz. vol. 213; p. 22.
- Files, Manufacture of. W. H. Denley, B. Makin, and H. B. Denley. No. 1,165,231; Dec. 21; Gaz. vol. 221; p. 960.
- Filing apparatus. E. C. Deal. No. 1,142,941; June 15; Gaz. vol. 215; p. 726.
- Filing apparatus. C. A. Grünwald. No. 1,150,674; Aug. 17; Gaz. vol. 217; p. 943.
- Filing appliance. H. J. Hick. No. 1,139,677; May 18; Gaz. vol. 214; p. 762.
- Filing appliance. H. J. Hick. No. 1,157,159; Oct. 19; Gaz. vol. 219; p. 695.
- Filing appliance. H. J. Hick. No. 1,160,173; Nov. 16; Gaz. vol. 220; p. 706.
- Filing appliance. H. J. Hick. No. 1,160,407; Nov. 16; Gaz. vol. 220; p. 786.
- Filing appliance. H. J. Hick. No. 1,165,972; Dec. 28; Gaz. vol. 221; p. 1255.
- Filing appliance. H. J. Hick and A. F. Staples. No. 1,157,160; Oct. 19; Gaz. vol. 219; p. 696.
- Filing appliance. G. Jacobs. No. 1,142,965; June 15; Gaz. vol. 215; p. 734.
- Filing appliance. G. Jacobs. No. 1,160,412; Nov. 16; Gaz. vol. 220; p. 788.
- Filing appliance. S. S. Kurtz. No. 1,142,971; June 15; Gaz. vol. 215; p. 737.
- Filing appliance. T. G. Maxwell. No. 1,141,401; June 1; Gaz. vol. 215; p. 113.
- Filing appliance. E. B. Moseley. No. 1,141,403; June 1; Gaz. vol. 215; p. 114.
- Filing appliance. E. B. Moseley. No. 1,141,404; June 1; Gaz. vol. 215; p. 114.
- Filing appliance. E. B. Moseley. No. 1,141,405; June 1; Gaz. vol. 215; p. 115.
- Filing appliance. E. B. Moseley. No. 1,142,115; June 8; Gaz. vol. 215; p. 399.
- Filing appliance. E. B. Moseley. No. 1,153,562; Sept. 14; Gaz. vol. 218; p. 464.
- Filing appliance. E. B. Moseley. No. 1,154,593; Sept. 21; Gaz. vol. 218; p. 854.
- Filing appliance. E. T. Silvius. No. 1,136,177; Apr. 20; Gaz. vol. 213; p. 823.
- Filing appliance. E. T. Silvius. No. 1,141,422; June 1; Gaz. vol. 215; p. 121.
- Filing appliance. E. T. Silvius. No. 1,142,122; June 8; Gaz. vol. 215; p. 402.
- Filing appliance. E. T. Silvius. No. 1,147,980; July 27; Gaz. vol. 216; p. 1119.
- Filing appliance. E. T. Silvius. No. 1,154,135; Sept. 21; Gaz. vol. 218; p. 696.
- Filing appliance. E. T. Silvius. No. 1,160,538; Nov. 16; Gaz. vol. 220; p. 833.
- Filing appliance. R. M. Vick. No. 1,147,055; July 20; Gaz. vol. 216; p. 769.
- Filing appliance. H. B. White. No. 1,127,706; Feb. 9; Gaz. vol. 211; p. 403.
- Filing appliance. H. B. White. No. 1,166,396; Dec. 28; Gaz. vol. 221; p. 1410.
- Filing appliances, Leaf for. E. B. Moseley. No. 1,162,303; Nov. 30; Gaz. vol. 220; p. 1548.
- Filing-cabinet. V. G. Gilbreath and S. T. Williamson. No. 1,140,589; May 25; Gaz. vol. 214; p. 1117.
- Filing-cabinet. A. Martin. No. 1,124,775; Jan. 12; Gaz. vol. 210; p. 597.
- Filing-cabinet. J. L. Tindale. No. 1,141,089; May 25; Gaz. vol. 214; p. 1290.
- Filing-cabinet. H. A. Wardy. No. 1,146,464; July 13; Gaz. vol. 216; p. 544.
- Filing-cabinet. H. A. Wardy. No. 1,146,777; July 13; Gaz. vol. 216; p. 650.
- Filing-cabinet. H. A. Wardy. No. 1,146,778; July 13; Gaz. vol. 216; p. 651.
- Filing-case. R. N. Hawkins. No. 1,134,266; Apr. 6; Gaz. vol. 213; p. 67.
- Filing-case. L. A. Lebowich. No. 1,134,052; Mar. 30; Gaz. vol. 212; p. 1643.
- Filing-case, Sectional. D. G. Hoffman and J. F. Schaefer. No. 1,147,022; July 20; Gaz. vol. 216; p. 757.
- Film delivering and severing means. G. C. Beidler. No. 1,160,564; Nov. 16; Gaz. vol. 220; p. 843.
- Film-developing apparatus, Roll-. B. J. Nasief and F. F. Dorsey. No. 1,156,922; Oct. 19; Gaz. vol. 219; p. 612.
- Filing device. H. S. Benjamin. No. 1,154,476; Sept. 21; Gaz. vol. 218; p. 813.
- Filing device. J. Bodenstein. No. 1,160,104; Nov. 9; Gaz. vol. 220; p. 628.
- Filing device. R. S. Graham. No. 1,158,129; Oct. 26; Gaz. vol. 219; p. 1099.
- Filing device. R. H. Irwin. No. 1,158,808; Nov. 2; Gaz. vol. 220; p. 140.
- Filing device. J. H. and J. H. Rand, Jr. No. 1,158,074; Oct. 26; Gaz. vol. 219; p. 1079.
- Filing device. H. A. Wardy. No. 1,146,465; July 13; Gaz. vol. 216; p. 544.
- Filing device, Account-. P. A. McCaskey. No. 1,164,830; Dec. 21; Gaz. vol. 221; p. 819.
- Filing device for tracings, maps, charts, &c. G. H. Johanson. No. 1,134,616; Apr. 6; Gaz. vol. 213; p. 194.
- Filing-drawers, Compressor for. E. H. Ellison. No. 1,129,282; Feb. 23; Gaz. vol. 211; p. 1040.
- Filing-drawers, Suspension for. W. W. Watson. No. 1,144,670; June 29; Gaz. vol. 215; p. 1379.
- Filing means for records, letters, and other documents. A. Vesterling. No. 1,142,643; June 8; Gaz. vol. 215; p. 583.
- Filing of records, letters, and other documents. A. Vesterling. No. 1,142,644; June 8; Gaz. vol. 215; p. 583.
- Filing-receptacles, Follower for. A. T. Weiss. No. 1,135,234; Apr. 13; Gaz. vol. 213; p. 451.
- Filing system, Credit. J. Habein. No. 1,164,344; Dec. 14; Gaz. vol. 221; p. 608.
- Filler-tube cap. W. R. Webster. No. 1,125,229; Jan. 19; Gaz. vol. 210; p. 794.
- Filling and capping machine. P. J. Schloemer and H. E. Krueger. No. 1,141,271; June 1; Gaz. vol. 215; p. 64.
- Filling and packing machine. E. W. Seamans. No. 1,151,970; Aug. 31; Gaz. vol. 217; p. 1491.
- Filing apparatus. K. Kiefer. No. 1,164,360; Dec. 14; Gaz. vol. 221; p. 614.
- Filing apparatus. N. M. La Porte. No. 1,140,169; May 18; Gaz. vol. 214; p. 936.
- Filing-changer. J. E. Hume and G. S. Thompson. No. 1,133,286; Mar. 30; Gaz. vol. 212; p. 1375.
- Filing-machine. K. Kiefer. No. 1,145,068; July 6; Gaz. vol. 216; p. 34.
- Filing stop-motion. E. H. Ryon. No. 1,151,287; Aug. 24; Gaz. vol. 217; p. 1210.
- Filing stop-motion. E. H. Ryon. No. 1,151,288; Aug. 24; Gaz. vol. 217; p. 1210.
- Filing vessels and apparatus therefor, Isobarometrically. A. Casparé. No. 1,148,574; Aug. 3; Gaz. vol. 217; p. 33.
- Film. R. Bjerregaard. No. 1,130,702; Mar. 9; Gaz. vol. 212; p. 335.
- Film and like reel mechanism. E. Lytton. No. 1,132,369; Mar. 16; Gaz. vol. 212; p. 957.
- Film and sprocket-drum. O. J. Holmes. No. 1,144,414; June 29; Gaz. vol. 215; p. 1292.
- Film-box, Fireproof. E. A. Rupert and J. T. Drum. No. 1,152,052; Aug. 31; Gaz. vol. 217; p. 1519.
- Film-cleaner. J. E. Leland. No. 1,165,265; Dec. 21; Gaz. vol. 221; p. 971.
- Film-developing apparatus. V. C. De Ybarrondo. No. 1,143,892; June 22; Gaz. vol. 215; p. 1081.
- Film-feeding mechanism. E. Schneider. No. 1,165,629; Dec. 28; Gaz. vol. 221; p. 1136.
- Film-feeding mechanism. A. Schustek. No. 1,139,731; May 18; Gaz. vol. 214; p. 780.
- Film-guiding mechanism. J. Tessier. No. 1,126,589; Jan. 26; Gaz. vol. 210; p. 1316.
- Film holder, Cut-. F. W. Barnes and F. W. Lovejoy. No. 1,151,153; Aug. 24; Gaz. vol. 217; p. 1165.
- Film-machines, Regulator for. M. G. Delaney. No. 1,144,694; June 29; Gaz. vol. 215; p. 1387.

Alphabetical list of inventions—Continued.

- Film-mover, Automatic. B. Edmond and N. E. Barnes. No. 1,124,879; Jan. 12; Gaz. vol. 210; p. 634.
- Film-reel. M. G. Delaney. No. 1,144,693; June 29; Gaz. vol. 215; p. 1387.
- Film-reel. M. G. Delaney. No. 1,144,697; June 29; Gaz. vol. 215; p. 1389.
- Film-reel. H. J. Rickon. No. 1,135,846; Apr. 13; Gaz. vol. 213; p. 668.
- Film-reel, Adjustable. M. G. Delaney. No. 1,132,766; Mar. 23; Gaz. vol. 212; p. 1151.
- Film-reel holder. A. E. Sengstock. No. 1,153,963; Sept. 21; Gaz. vol. 218; p. 637.
- Film-reels, Adjustable casing for. M. G. Delaney. No. 1,144,695; June 29; Gaz. vol. 215; p. 1388.
- Film-rewinding device. C. V. Foote. No. 1,138,205; May 4; Gaz. vol. 214; p. 169.
- Film-rewinding mechanism. W. H. Akin. No. 1,156,025; Oct. 5; Gaz. vol. 219; p. 243.
- Film-roll holder. L. Mandel. No. 1,137,771; May 4; Gaz. vol. 214; p. 17.
- Film-roll holder. L. Mandel. No. 1,164,835; Dec. 21; Gaz. vol. 221; p. 821.
- Film-washer. C. W. College. No. 1,146,136; July 13; Gaz. vol. 216; p. 426.
- Film-winder. A. F. Hetherington. No. 1,136,335; Apr. 20; Gaz. vol. 213; p. 879.
- Film-winding apparatus. F. L. Kempff and H. W. Smith. No. 1,144,362; June 29; Gaz. vol. 215; p. 1276.
- Films and the like, Apparatus for coloring. P. E. Stow. No. 1,162,886; Dec. 7; Gaz. vol. 221; p. 53.
- Films, Coloring. P. E. Stow. No. 1,130,645; Mar. 2; Gaz. vol. 212; p. 281.
- Filter. C. Butters. No. 1,136,863; Apr. 20; Gaz. vol. 213; p. 1067.
- Filter. C. Butters. No. 1,165,068; Dec. 21; Gaz. vol. 221; p. 901.
- Filter. M. Cole. No. 1,137,581; Apr. 27; Gaz. vol. 213; p. 1361.
- Filter. A. W. Collins. No. 1,162,455; Nov. 30; Gaz. vol. 220; p. 1599.
- Filter. J. M. Colven. No. 1,125,899; Jan. 19; Gaz. vol. 210; p. 1031.
- Filter. H. B. Faber. No. 1,133,944; Mar. 30; Gaz. vol. 212; p. 1608.
- Filter. W. E. Gorton. No. 1,154,507; Sept. 21; Gaz. vol. 218; p. 824.
- Filter. V. B. Hagg. No. 1,157,776; Oct. 26; Gaz. vol. 219; p. 973.
- Filter. A. N. Hamlet. No. 1,164,508; Dec. 14; Gaz. vol. 221; p. 666.
- Filter. E. E. Hauer. No. 1,163,662; Dec. 14; Gaz. vol. 221; p. 368.
- Filter. J. Hotchkiss. No. 1,153,920; Sept. 21; Gaz. vol. 218; p. 623.
- Filter. W. M. Jewell. No. 1,158,226; Oct. 26; Gaz. vol. 219; p. 1132.
- Filter. J. S. Keithline. No. 1,133,289; Mar. 30; Gaz. vol. 212; p. 1376.
- Filter. I. Kitsee. No. 1,162,244; Nov. 30; Gaz. vol. 220; p. 1527.
- Filter. A. E. Krause. No. 1,145,372; July 6; Gaz. vol. 216; p. 138.
- Filter. W. P. Lass. No. 1,144,854; June 29; Gaz. vol. 215; p. 1444.
- Filter. H. B. Miller. No. 1,153,437; Sept. 14; Gaz. vol. 218; p. 419.
- Filter. W. L. Morris. No. 1,137,075; Apr. 27; Gaz. vol. 213; p. 1180.
- Filter. W. L. Morris. No. 1,143,985; June 22; Gaz. vol. 215; p. 1113.
- Filter. C. G. Osgood. No. 1,128,495; Feb. 16; Gaz. vol. 211; p. 730.
- Filter. C. S. Pelton. No. 1,166,000; Dec. 28; Gaz. vol. 221; p. 1265.
- Filter. H. Reisert. No. 1,142,270; June 8; Gaz. vol. 215; p. 453.
- Filter. W. E. Richardson. No. 1,137,902; May 4; Gaz. vol. 214; p. 62.
- Filter. J. G. Utz and C. S. Pelton. No. 1,165,640; Dec. 28; Gaz. vol. 221; p. 1141.
- Filter. W. F. Warden. No. 1,140,726; May 25; Gaz. vol. 214; p. 1163.
- Filter. W. Wheeler. No. 1,151,313; Aug. 24; Gaz. vol. 217; p. 1219.
- Filter. C. A. Youngman. No. 1,131,456; Mar. 9; Gaz. vol. 212; p. 595.
- Filter. E. Zahm. No. 1,153,282; Sept. 14; Gaz. vol. 218; p. 361.
- Filter and air-chamber, Combination. E. A. Gehrke. No. 1,157,934; Oct. 26; Gaz. vol. 219; p. 1029.
- Filter-bed-scraping machine. E. M. Nichols. No. 1,150,876; Aug. 24; Gaz. vol. 217; p. 1071.
- Filter-cell. G. M. Kneuper. No. 1,148,237; July 27; Gaz. vol. 216; p. 1210.
- Filter-cleaning apparatus. W. F. L. Beth. No. 1,153,751; Sept. 14; Gaz. vol. 218; p. 528.
- Filter, Faucet-. J. Bouliard. No. 1,139,331; May 11; Gaz. vol. 214; p. 602.
- Filter, Fluid-fuel. C. A. Phelps and J. C. Goller. No. 1,124,166; Jan. 5; Gaz. vol. 210; p. 329.
- Filter for pipes and the like. C. A. Jones. No. 1,127,771; Feb. 9; Gaz. vol. 211; p. 429.
- Filter, Fume and smoke. E. H. Gagnon. No. 1,148,508; Aug. 3; Gaz. vol. 217; p. 8.
- Filter, Gasolene-. A. R. Gwynn. No. 1,137,480; Apr. 27; Gaz. vol. 213; p. 1327.
- Filter, Heater-. C. Jr. and A. E. Joerin. No. 1,162,782; Dec. 7; Gaz. vol. 221; p. 18.
- Filter-mass washer. J. Kraus. No. 1,139,776; May 18; Gaz. vol. 214; p. 796.
- Filter medium or other article of manufacture. E. J. Sweetland. No. 1,147,279; July 20; Gaz. vol. 216; p. 845.
- Filter, Oil-. E. P. Baum. No. 1,135,150; Apr. 13; Gaz. vol. 213; p. 426.
- Filter, Oil-. F. F. Emory. No. 1,148,834; Aug. 3; Gaz. vol. 217; p. 126.
- Filter, Oil-. J. H. Packer. No. 1,157,717; Oct. 26; Gaz. vol. 219; p. 954.
- Filter, Oil-. W. F. Warden. No. 1,140,727; May 25; Gaz. vol. 214; p. 1163.
- Filter plate, Mash-. J. Schaefer. No. 1,138,251; May 4; Gaz. vol. 214; p. 184.
- Filter-press. J. Johnson. No. 1,139,767; May 18; Gaz. vol. 214; p. 793.
- Filter-press. J. Johnson. No. 1,151,186; Aug. 24; Gaz. vol. 217; p. 1176.
- Filter-press, Electro-osmotic. B. Schwerin. No. 1,156,715; Oct. 12; Gaz. vol. 219; p. 509.
- Filter-press switch-cock and double-gutter construction. B. E. Sperry. No. 1,157,907; Oct. 26; Gaz. vol. 219; p. 1021.
- Filter, Pressure-. H. Reisert. No. 1,165,124; Dec. 21; Gaz. vol. 221; p. 922.
- Filter, Rain-water-. P. Bernard. No. 1,130,663; Mar. 2; Gaz. vol. 212; p. 287.
- Filter, Ray-. J. T. Clarke. No. 1,151,245; Aug. 24; Gaz. vol. 217; p. 1197.
- Filter, Self-cleaning liquid-. T. Linke. No. 1,149,926; Aug. 10; Gaz. vol. 217; p. 619.
- Filter-stuff by the employment of coal or similar filter material, Production of a. L. von Jaraczewski. No. 1,147,991; July 27; Gaz. vol. 216; p. 1122.
- Filter, Water-. A. L. Gammage. No. 1,163,334; Dec. 7; Gaz. vol. 221; p. 210.
- Filter, Water-. H. Herzbruch. No. 1,141,959; June 8; Gaz. vol. 215; p. 342.
- Filter, Water-. H. L. Kuenzli. No. 1,136,538; Apr. 20; Gaz. vol. 213; p. 952.
- Filter, Water-. T. H. and B. H. T. Mulch. No. 1,143,129; June 15; Gaz. vol. 215; p. 792.
- Filter, Water-. H. Woods. No. 1,141,744; June 1; Gaz. vol. 215; p. 232.
- Filter, Well-. F. Jaskowiak. No. 1,146,499; July 13; Gaz. vol. 216; p. 556.
- Filters, Charging mash-. G. Hannen. No. 1,151,582; Aug. 31; Gaz. vol. 217; p. 1357.
- Filtering. A. Burger. No. 1,164,065; Dec. 14; Gaz. vol. 221; p. 512.
- Filtering apparatus. A. H. Baldwin. No. 1,135,753; Apr. 13; Gaz. vol. 213; p. 634.
- Filtering apparatus. C. J. Brockbank. No. 1,152,875; Sept. 7; Gaz. vol. 218; p. 182.
- Filtering apparatus. J. B. Davis. No. 1,156,592; Oct. 12; Gaz. vol. 219; p. 466.
- Filtering apparatus. M. Deacon and W. Gore. No. 1,123,704; Jan. 5; Gaz. vol. 210; p. 172.
- Filtering apparatus. M. Deacon and W. Gore. No. 1,130,382; Mar. 2; Gaz. vol. 212; p. 188.
- Filtering apparatus. W. E. Holderman. No. 1,146,256; July 13; Gaz. vol. 216; p. 469.
- Filtering apparatus. W. E. Holderman. No. 1,150,369; Aug. 17; Gaz. vol. 217; p. 837.
- Filtering apparatus. D. J. Kelly. No. 1,158,056; Oct. 26; Gaz. vol. 219; p. 1072.
- Filtering apparatus. K. Kiefer. No. 1,123,310; Jan. 5; Gaz. vol. 210; p. 38.
- Filtering-cup. F. B. Clark. No. 1,137,462; Apr. 27; Gaz. vol. 213; p. 1321.
- Filtering device. G. A. and A. F. Schütz. No. 1,141,213; June 1; Gaz. vol. 215; p. 44.
- Filtering element for air-purifiers and the like. M. Combemale. No. 1,125,966; Jan. 26; Gaz. vol. 210; p. 1087.
- Filtering or purifying device. Oil. M. C. Rogers. No. 1,148,990; Aug. 3; Gaz. vol. 217; p. 179.
- Filtering-pan. W. E. Trent. No. 1,125,769; Jan. 19; Gaz. vol. 210; p. 937.
- Filtering process. D. J. Kelly. No. 1,158,055; Oct. 26; Gaz. vol. 219; p. 1072.
- Filtering sugar-juices, Centrifugal device for. L. G. G. Dibbets. No. 1,138,608; May 4; Gaz. vol. 214; p. 309.
- Filtering system, Sewage-. R. W. Amos. No. 1,165,741; Dec. 28; Gaz. vol. 221; p. 1177.
- Filtration, Water-. W. M. Jewell. No. 1,158,225; Oct. 26; Gaz. vol. 219; p. 1131.
- Finely-divided solids, Collecting apparatus for. I. S. Merrill. No. 1,157,947; Oct. 26; Gaz. vol. 219; p. 1034.
- Finger-bar-aligning mechanism. E. C. Smith. No. 1,146,968; July 20; Gaz. vol. 216; p. 738.
- Finger-bowl attachment. G. B. Weldon. No. 1,123,967; Jan. 5; Gaz. vol. 210; p. 261.
- Finger-bowl, Paper-lined. H. P. Sayford. No. 1,164,962; Dec. 21; Gaz. vol. 221; p. 864.

Alphabetical list of inventions—Continued.

- Finger-nail clipper. J. P. Manypenny. No. 1,125,577; Jan. 19; Gaz. vol. 210; p. 916.
- Finger-nail clipper. R. C. Miner. No. 1,135,462; Apr. 13; Gaz. vol. 213; p. 531.
- Finger-nail shield. A. D. Kindred. No. 1,135,382; Apr. 13; Gaz. vol. 213; p. 503.
- Finger-ring. J. Schmidt. No. 1,129,738; Feb. 23; Gaz. vol. 211; p. 1197.
- Finger-shield. H. B. Morris. No. 1,160,522; Nov. 16; Gaz. vol. 220; p. 827.
- Finger stall or cot. P. A. Waller. No. 1,123,630; Jan. 5; Gaz. vol. 210; p. 148.
- Finger-tip infiltrator. H. Leidel. No. 1,158,695; Nov. 2; Gaz. vol. 220; p. 99.
- Finish-remover. C. Ellis. No. 1,130,499; Mar. 2; Gaz. vol. 212; p. 231.
- Finish-remover. C. Ellis. No. 1,140,449; May 25; Gaz. vol. 214; p. 1068.
- Finish-remover. C. Ellis. No. 1,145,980; July 13; Gaz. vol. 216; p. 371.
- Finish-remover. C. Ellis. No. 1,147,851; July 27; Gaz. vol. 216; p. 1073.
- Finish-remover. C. Ellis. No. 1,160,394; Nov. 16; Gaz. vol. 220; p. 782.
- Finish-remover. L. Hambrock, Jr. No. 1,143,387; June 15; Gaz. vol. 215; p. 885.
- Finish-remover. H. A. Harris. No. 1,145,365; July 6; Gaz. vol. 216; p. 135.
- Finish-remover and the preparation thereof. C. Ellis. No. 1,147,852; July 27; Gaz. vol. 216; p. 1073.
- Finish-remover-applying device. C. Ellis. No. 1,139,353; May 11; Gaz. vol. 214; p. 609.
- Finishing-machine. F. Holbrook and J. J. Donlon. No. 1,165,600; Dec. 28; Gaz. vol. 221; p. 1125.
- Fire-alarm. W. H. Bowman. No. 1,162,020; Nov. 30; Gaz. vol. 220; p. 1449.
- Fire-alarm. R. L. Brinkley. No. 1,154,480; Sept. 21; Gaz. vol. 218; p. 815.
- Fire-alarm. C. B. and M. C. Eastman. No. 1,125,674; Jan. 19; Gaz. vol. 210; p. 953.
- Fire-alarm. F. Franek. No. 1,124,410; Jan. 12; Gaz. vol. 210; p. 465.
- Fire-alarm. E. E. Fryberg. No. 1,145,763; July 6; Gaz. vol. 216; p. 276.
- Fire-alarm. D. McClanahan. No. 1,132,103; Mar. 16; Gaz. vol. 212; p. 858.
- Fire-alarm. J. H. Owen. No. 1,135,916; Apr. 13; Gaz. vol. 213; p. 690.
- Fire-alarm. C. E. Rogers. No. 1,125,720; Jan. 19; Gaz. vol. 210; p. 970.
- Fire-alarm and sprinkler operating apparatus. A. Marcante. No. 1,140,837; May 25; Gaz. vol. 214; p. 1202.
- Fire-alarm. Automatic. W. F. Caldwell. No. 1,152,932; Sept. 7; Gaz. vol. 218; p. 203.
- Fire-alarm. Automatic. J. B. Smith. No. 1,156,717; Oct. 12; Gaz. vol. 219; p. 510.
- Fire-alarm. Automatic. A. L. Stewart, L. O. Hawkins, and A. E. Mosher. No. 1,123,614; Jan. 5; Gaz. vol. 210; p. 142.
- Fire-alarm box. W. E. Fastnacht. No. 1,146,239; July 13; Gaz. vol. 216; p. 463.
- Fire-alarm box. A. Młodzierz. No. 1,156,705; Oct. 12; Gaz. vol. 219; p. 506.
- Fire-alarm box. N. H. Suren. No. 1,158,742; Nov. 2; Gaz. vol. 220; p. 115.
- Fire-alarm-box attachment. A. and L. Cudsky. No. 1,164,786; Dec. 21; Gaz. vol. 221; p. 803.
- Fire-alarm boxes. Tampering-preventing device for. J. Karoly. No. 1,149,199; Aug. 10; Gaz. vol. 217; p. 355.
- Fire-alarm. Electric. W. E. Howells. No. 1,128,141; Feb. 9; Gaz. vol. 211; p. 558.
- Fire-alarm guard. S. Jarosz. No. 1,150,945; Aug. 24; Gaz. vol. 217; p. 1094.
- Fire-alarm signaling-machine. Non-interfering succession-movement. G. O. Cramer and G. V. Tudhope. No. 1,152,710; Sept. 7; Gaz. vol. 218; p. 121.
- Fire-alarm system. J. B. Ammons. No. 1,131,245; Mar. 16; Gaz. vol. 212; p. 913.
- Fire-alarm system. J. B. Ammons. No. 1,134,064; Mar. 30; Gaz. vol. 212; p. 1647.
- Fire-alarm system. C. F. Christman. No. 1,143,809; June 22; Gaz. vol. 215; p. 1052.
- Fire-alarm system. W. L. Denio. No. 1,159,905; Nov. 9; Gaz. vol. 220; p. 558.
- Fire-alarm system. F. Gottschalk. No. 1,148,014; July 27; Gaz. vol. 216; p. 1130.
- Fire-alarm system. F. Gottschalk. No. 1,152,942; Sept. 7; Gaz. vol. 218; p. 207.
- Fire-alarm system. F. Gottschalk. No. 1,155,722; Oct. 5; Gaz. vol. 219; p. 138.
- Fire-alarm system. J. McFell. No. 1,152,527; Sept. 7; Gaz. vol. 218; p. 54.
- Fire-alarm system. N. H. Suren. No. 1,132,499; Mar. 16; Gaz. vol. 212; p. 1005.
- Fire-alarm system. F. X. Veranich. No. 1,160,795; Nov. 16; Gaz. vol. 220; p. 926.
- Fire-alarm system. Automatic. J. B. Ammons. No. 1,132,419; Mar. 16; Gaz. vol. 212; p. 975.
- Fire-alarm system. Automatic. F. Gottschalk. No. 1,139,859; May 18; Gaz. vol. 214; p. 825.
- Fire-alarm system. Automatic. F. Gottschalk. No. 1,147,014; July 20; Gaz. vol. 216; p. 754.
- Fire-alarm-telegraph system. N. H. Suren. No. 1,145,941; July 13; Gaz. vol. 216; p. 357.
- Fire-alarm transmitter. W. R. Hamilton. No. 1,126,199; Jan. 26; Gaz. vol. 210; p. 1174.
- Fire-alarm-transmitter movement. W. R. Hamilton. No. 1,126,200; Jan. 26; Gaz. vol. 210; p. 1175.
- Fire-alarms. Circuit-closer for. F. W. Bost. No. 1,153,755; Sept. 14; Gaz. vol. 218; p. 530.
- Fire and police alarm box. W. F. Smith. No. 1,147,052; July 20; Gaz. vol. 216; p. 767.
- Fire and water proof composition and preparing the same. J. A. Scharwath. No. 1,136,370; Apr. 20; Gaz. vol. 213; p. 893.
- Fire apparatus for oil-tanks. O. J. Holmes. No. 1,142,520; June 8; Gaz. vol. 215; p. 542.
- Fire apparatus. Motor-propelled. S. W. Luitwieler. No. 1,162,113; Aug. 31; Gaz. vol. 217; p. 1541.
- Fire-box. R. E. Jackson and F. E. Bell. No. 1,135,286; Apr. 13; Gaz. vol. 213; p. 469.
- Fire-box construction. J. M. McClellon. No. 1,124,490; Jan. 12; Gaz. vol. 210; p. 495.
- Fire-box construction. Locomotive. L. Parish. No. 1,156,368; Oct. 12; Gaz. vol. 219; p. 387.
- Fire-box. Corrugated. J. M. McClellon. No. 1,124,489; Jan. 12; Gaz. vol. 210; p. 494.
- Fire-boxes. Combined steam and air feeder for. C. F. Gregory. No. 1,135,276; Apr. 13; Gaz. vol. 213; p. 466.
- Fire. Chemically extinguishing. J. A. Thomas. No. 1,164,681; Dec. 21; Gaz. vol. 221; p. 767.
- Fire-clay feeder. J. H. Meininger. No. 1,137,650; Apr. 27; Gaz. vol. 213; p. 1383.
- Fire-detecting conductors. Protective duct for. C. A. Harsch. No. 1,142,094; June 8; Gaz. vol. 215; p. 392.
- Fire-detector apparatus. C. H. Kayser and W. H. Hampton. No. 1,143,970; June 22; Gaz. vol. 215; p. 1108.
- Fire-door. T. E. Collins. No. 1,149,732; Aug. 10; Gaz. vol. 217; p. 548.
- Fire-door. M. Gilmore. No. 1,147,857; July 27; Gaz. vol. 216; p. 1075.
- Fire-door for furnaces and the like. J. M. Van den Bergh. No. 1,132,064; Mar. 16; Gaz. vol. 212; p. 846.
- Fire door or shutter. F. L. Saino. No. 1,146,960; July 20; Gaz. vol. 216; p. 735.
- Fire-door pedal device. A. G. Elvin and F. W. Martin. No. 1,148,581; Aug. 3; Gaz. vol. 217; p. 36.
- Fire-door pedal device. A. G. Elvin and J. J. L. Molun. No. 1,148,582; Aug. 3; Gaz. vol. 217; p. 36.
- Fire-engine system. Electric. C. Loeffler. No. 1,160,422; Nov. 16; Gaz. vol. 220; p. 792.
- Fire-escape. A. F. Amman. No. 1,158,952; Nov. 2; Gaz. vol. 220; p. 189.
- Fire-escape. R. L. Ball. No. 1,135,248; Apr. 13; Gaz. vol. 213; p. 456.
- Fire-escape. W. H. Bell. No. 1,149,616; Aug. 10; Gaz. vol. 217; p. 507.
- Fire-escape. W. Bergenroth. No. 1,125,797; Jan. 19; Gaz. vol. 210; p. 996.
- Fire-escape. W. Bergenroth. No. 1,164,980; Dec. 21; Gaz. vol. 221; p. 871.
- Fire-escape. T. Booth. No. 1,123,229; Jan. 5; Gaz. vol. 210; p. 9.
- Fire-escape. J. T. Boufford. No. 1,162,679; Nov. 30; Gaz. vol. 220; p. 1671.
- Fire-escape. J. Bouliou and P. Brady. No. 1,147,365; July 20; Gaz. vol. 216; p. 876.
- Fire-escape. C. A. Brickell. No. 1,136,931; Apr. 27; Gaz. vol. 213; p. 1128.
- Fire-escape. D. S. Burkhardt. No. 1,164,988; Dec. 21; Gaz. vol. 221; p. 874.
- Fire-escape. J. J. Daniels. No. 1,153,200; Sept. 14; Gaz. vol. 218; p. 332.
- Fire-escape. A. F. Fornelius. No. 1,164,489; Dec. 14; Gaz. vol. 221; p. 659.
- Fire-escape. H. D. Hartog. No. 1,133,722; Mar. 30; Gaz. vol. 212; p. 1532.
- Fire-escape. D. C. Hibbard. No. 1,123,295; Jan. 5; Gaz. vol. 210; p. 32.
- Fire-escape. O. Ihde. No. 1,153,622; Sept. 14; Gaz. vol. 218; p. 484.
- Fire-escape. L. Jankovits. No. 1,160,175; Nov. 16; Gaz. vol. 220; p. 707.
- Fire-escape. J. Kish. No. 1,156,908; Oct. 19; Gaz. vol. 219; p. 607.
- Fire-escape. E. Lemons. No. 1,134,468; Apr. 6; Gaz. vol. 213; p. 140.
- Fire-escape. J. Martin. No. 1,159,975; Nov. 9; Gaz. vol. 220; p. 584.
- Fire-escape. A. G. Mass. No. 1,128,025; Feb. 9; Gaz. vol. 211; p. 518.
- Fire-escape. A. Merrettig. No. 1,166,141; Dec. 28; Gaz. vol. 221; p. 1317.
- Fire-escape. P. J. Meyer. No. 1,123,776; Jan. 5; Gaz. vol. 210; p. 198.
- Fire-escape. C. H. Morand. No. 1,152,961; Sept. 7; Gaz. vol. 218; p. 214.
- Fire-escape. I. F. Otto. No. 1,140,281; May 18; Gaz. vol. 214; p. 973.
- Fire-escape. C. S. Parris. No. 1,163,032; Dec. 7; Gaz. vol. 221; p. 104.
- Fire-escape. S. F. Rolston. No. 1,145,923; July 13; Gaz. vol. 216; p. 351.

Alphabetical list of inventions—Continued.

- Fire-escape. M. Rosner. No. 1,149,689; Aug. 10; Gaz. vol. 217; p. 534.
- Fire-escape. J. J. Schaules. No. 1,125,918; Jan. 19; Gaz. vol. 210; p. 1038.
- Fire-escape. H. Sperling. No. 1,162,413; Nov. 30; Gaz. vol. 220; p. 1584.
- Fire-escape. A. A. Stinchcomb. No. 1,135,738; Apr. 13; Gaz. vol. 213; p. 629.
- Fire-escape. G. F. Upton. No. 1,141,995; June 8; Gaz. vol. 215; p. 355.
- Fire-escape and alarm, Combined. C. R. Kjellstrom. No. 1,141,716; June 1; Gaz. vol. 215; p. 223.
- Fire-escape attachment. M. L. Sobra. No. 1,126,583; Jan. 26; Gaz. vol. 210; p. 1314.
- Fire-escape, Automatic. L. T. Hunter. No. 1,142,710; June 8; Gaz. vol. 215; p. 605.
- Fire-escape, Automatic. W. E. Payne and W. S. Eklund. No. 1,136,436; Apr. 20; Gaz. vol. 213; p. 917.
- Fire-escape extension. J. Pauly. No. 1,140,708; May 25; Gaz. vol. 214; p. 1156.
- Fire-escape, Portable. A. A. Abbot. No. 1,160,809; Nov. 16; Gaz. vol. 220; p. 931.
- Fire-escape, Portable. F. A. Forest. No. 1,144,702; June 29; Gaz. vol. 215; p. 1390.
- Fire-escape, Portable. P. F. Morrissey and H. W. Traub. No. 1,149,394; Aug. 10; Gaz. vol. 217; p. 426.
- Fire-extinguisher. C. D. Allan. No. 1,134,498; Apr. 6; Gaz. vol. 213; p. 151.
- Fire-extinguisher. A. E. Allen. No. 1,137,827; May 4; Gaz. vol. 214; p. 36.
- Fire-extinguisher. H. J. Carmody. No. 1,162,133; Nov. 30; Gaz. vol. 220; p. 1489.
- Fire-extinguisher. M. N. Connor. No. 1,129,850; Mar. 2; Gaz. vol. 212; p. 6.
- Fire-extinguisher. H. W. Doughty. No. 1,157,090; Oct. 19; Gaz. vol. 219; p. 671.
- Fire-extinguisher. J. Emmett. No. 1,145,883; July 13; Gaz. vol. 216; p. 337.
- Fire-extinguisher. G. B. Gallup. No. 1,137,202; Apr. 27; Gaz. vol. 213; p. 1226.
- Fire-extinguisher. A. L. Hansen. No. 1,162,914; Dec. 7; Gaz. vol. 221; p. 62.
- Fire-extinguisher. A. L. Hansen. No. 1,163,087; Dec. 7; Gaz. vol. 221; p. 123.
- Fire-extinguisher. J. L. Kozmowski. No. 1,147,410; July 20; Gaz. vol. 216; p. 893.
- Fire-extinguisher. H. V. R. Read. No. 1,145,796; July 6; Gaz. vol. 216; p. 287.
- Fire-extinguisher. A. C. Seeger. No. 1,147,557; July 20; Gaz. vol. 216; p. 943.
- Fire-extinguisher. L. W. Serrell. No. 1,150,634; Aug. 17; Gaz. vol. 217; p. 929.
- Fire-extinguisher. W. P. Stewart. No. 1,158,580; Nov. 2; Gaz. vol. 220; p. 60.
- Fire-extinguisher and fire-alarm, Combined. C. Caselli. No. 1,133,706; Mar. 30; Gaz. vol. 212; p. 1527.
- Fire-extinguisher, Automatic. E. Daucher. No. 1,140,960; May 25; Gaz. vol. 214; p. 1247.
- Fire-extinguisher, Automatic. G. O. Liljegren. No. 1,123,329; Jan. 5; Gaz. vol. 210; p. 45.
- Fire-extinguisher, Automatic. P. G. MacGregor. No. 1,151,207; Aug. 24; Gaz. vol. 217; p. 1184.
- Fire-extinguisher, Chemical. M. L. Dunbar. No. 1,158,904; Nov. 2; Gaz. vol. 220; p. 173.
- Fire-extinguisher, Chemical. E. M. E. Hansen. No. 1,165,502; Dec. 28; Gaz. vol. 221; p. 1091.
- Fire-extinguisher, Chemical. R. J. Logan. No. 1,132,596; Mar. 23; Gaz. vol. 212; p. 1088.
- Fire-extinguisher system, Automatic. S. W. Brainard. No. 1,165,386; Dec. 28; Gaz. vol. 221; p. 1051.
- Fire-extinguishers and the like, Holder for. R. C. Iddings. No. 1,129,198; Feb. 23; Gaz. vol. 211; p. 1011.
- Fire-extinguishers, Element for automatic. E. M. Cook. No. 1,155,339; Oct. 5; Gaz. vol. 219; p. 5.
- Fire-extinguishing apparatus. C. Brent. No. 1,157,614; Oct. 19; Gaz. vol. 219; p. 852.
- Fire-extinguishing apparatus. E. R. Brodton. No. 1,143,169; June 15; Gaz. vol. 215; p. 806.
- Fire-extinguishing apparatus. H. H. Cockburn. No. 1,128,412; Feb. 16; Gaz. vol. 211; p. 701.
- Fire-extinguishing apparatus. J. R. and O. R. Erwin. No. 1,128,768; Feb. 16; Gaz. vol. 211; p. 823.
- Fire-extinguishing apparatus, Chemical. C. Wokes. No. 1,141,293; June 1; Gaz. vol. 215; p. 73.
- Fire-extinguishing bomb. A. L. Cole. No. 1,149,975; Aug. 10; Gaz. vol. 217; p. 637.
- Fire-extinguishing composition. W. W. Walker. No. 1,161,090; Nov. 23; Gaz. vol. 220; p. 1074.
- Fire-extinguishing device, Thermostatic. J. J. Hooks. No. 1,143,762; June 22; Gaz. vol. 215; p. 1035.
- Fire-extinguishing liquid. J. W. Aylsworth. No. 1,154,161; Sept. 21; Gaz. vol. 218; p. 705.
- Fire-extinguishing means for boilers. J. Shiery. No. 1,150,657; Aug. 17; Gaz. vol. 217; p. 930.
- Fire-extinguishing system. G. H. Lawrence. No. 1,143,053; June 15; Gaz. vol. 215; p. 765.
- Fire-extinguishing system, Chemical. P. B. Barringer. No. 1,165,744; Dec. 28; Gaz. vol. 221; p. 1177.
- Fire-extinguishing systems, Valve mechanism for. W. A. Perry. No. 1,159,794; Nov. 9; Gaz. vol. 220; p. 519.
- Fire-fighting apparatus. W. P. Rickard. No. 1,155,958; Oct. 5; Gaz. vol. 219; p. 220.
- Fire-fighting apparatus. J. A. Thomas. No. 1,152,452; Sept. 7; Gaz. vol. 218; p. 25.
- Fire-fighting tower. L. L. Heureux. No. 1,136,604; Apr. 20; Gaz. vol. 213; p. 976.
- Fire-hose bridge and car-wheel replacer, Combined. C. C. Hamilton. No. 1,137,313; Apr. 27; Gaz. vol. 213; p. 1268.
- Fire-hose cart. W. C. Lang. No. 1,127,029; Feb. 2; Gaz. vol. 211; p. 130.
- Fire-hose coupling. H. W. Sisson. No. 1,153,406; Sept. 14; Gaz. vol. 218; p. 408.
- Fire-hose, Play-pipe for use with. J. M. Baker. No. 1,132,899; Mar. 23; Gaz. vol. 212; p. 1199.
- Fire-hydrant. M. M. Emerson. No. 1,126,431; Jan. 26; Gaz. vol. 210; p. 1256.
- Fire-hydrant. C. C. Steiner. No. 1,123,418; Jan. 5; Gaz. vol. 210; p. 76.
- Fire-hydrant, Street. C. L. Howes. No. 1,145,838; July 6; Gaz. vol. 216; p. 302.
- Fire in guns, Method of and apparatus for extinguishing. P. D. Tsukalas and A. H. Kersting. No. 1,128,639; Feb. 16; Gaz. vol. 211; p. 779.
- Fire-lighter. H. E. Griffin. No. 1,153,065; Sept. 7; Gaz. vol. 218; p. 248.
- Fire-lighter. R. J. Griffin. No. 1,124,015; Jan. 5; Gaz. vol. 210; p. 277.
- Fire protection, Sprinkling device for. G. W. Kirkpatrick. No. 1,147,513; July 20; Gaz. vol. 216; p. 928.
- Fire-resisting closure, Sheet-metal. J. Brogden and J. W. Watkins. No. 1,139,842; May 18; Gaz. vol. 214; p. 819.
- Fire-resisting. Rendering wood. H. A. Gardner. No. 1,148,013; July 27; Gaz. vol. 216; p. 1130.
- Fire screen or guard. F. Nagy. No. 1,127,493; Feb. 9; Gaz. vol. 211; p. 332.
- Fire-shield. D. S. Watson. (Reissue.) No. 14,028; Dec. 7; Gaz. vol. 221; p. 316.
- Fire-stream distorter. H. J. Hopkins. No. 1,132,935; Mar. 23; Gaz. vol. 212; p. 1213.
- Fires, Automatically extinguishing. J. B. and O. R. Erwin. No. 1,130,719; Mar. 9; Gaz. vol. 212; p. 341.
- Fires, Extinguishing. J. G. Fagan. No. 1,148,763; Aug. 3; Gaz. vol. 217; p. 101.
- Fires, Extinguishing well-. W. R. Sink. No. 1,127,816; Feb. 9; Gaz. vol. 211; p. 446.
- Fires in compartments at a distance, Apparatus for indicating. W. Rich. No. 1,154,128; Sept. 21; Gaz. vol. 218; p. 694.
- Firearm. J. M. Browning. No. 1,143,170; June 15; Gaz. vol. 215; p. 807.
- Firearm. L. H. Cobb. No. 1,142,934; June 15; Gaz. vol. 215; p. 724.
- Firearm. A. P. Curtis. No. 1,159,183; Nov. 2; Gaz. vol. 220; p. 269.
- Firearm. C. A. Godshalk. No. 1,137,477; Apr. 27; Gaz. vol. 213; p. 1326.
- Firearm. G. Hammond. No. 1,124,427; Jan. 12; Gaz. vol. 210; p. 470.
- Firearm. G. Hammond. No. 1,138,376; May 4; Gaz. vol. 214; p. 231.
- Firearm. G. Hammond. No. 1,138,377; May 4; Gaz. vol. 214; p. 232.
- Firearm. G. Hammond. No. 1,138,379; May 4; Gaz. vol. 214; p. 232.
- Firearm. G. Hammond. No. 1,140,512; May 25; Gaz. vol. 214; p. 1091.
- Firearm. G. Hammond. No. 1,140,513; May 25; Gaz. vol. 214; p. 1092.
- Firearm. H. Hengelhaup and L. Möller. No. 1,147,860; July 27; Gaz. vol. 216; p. 1076.
- Firearm. T. C. Johnson. No. 1,146,502; July 13; Gaz. vol. 216; p. 557.
- Firearm. T. C. Johnson. No. 1,146,503; July 13; Gaz. vol. 216; p. 557.
- Firearm. T. C. Johnson. No. 1,163,156; Dec. 7; Gaz. vol. 221; p. 147.
- Firearm. G. S. Lewis. No. 1,136,247; Apr. 20; Gaz. vol. 213; p. 848.
- Firearm. C. A. Nelson. No. 1,152,750; Sept. 7; Gaz. vol. 218; p. 136.
- Firearm. C. A. Nelson. No. 1,165,621; Dec. 28; Gaz. vol. 221; p. 1133.
- Firearm. L. B. Purcell. No. 1,140,715; May 25; Gaz. vol. 214; p. 1159.
- Firearm. C. H. A. F. L. Ross. No. 1,141,582; June 1; Gaz. vol. 215; p. 177.
- Firearm. R. Rychiger. No. 1,135,722; Apr. 13; Gaz. vol. 213; p. 624.
- Firearm. W. L. Swartz. No. 1,141,285; June 1; Gaz. vol. 215; p. 70.
- Firearm. C. G. Swebilus and H. T. R. Hanitz. No. 1,147,906; July 27; Gaz. vol. 216; p. 1093.
- Firearm. C. G. Swebilus and H. T. R. Hanitz. No. 1,149,795; Aug. 10; Gaz. vol. 217; p. 570.
- Firearm. C. G. Swebilus and H. T. R. Hanitz. No. 1,157,656; Oct. 19; Gaz. vol. 219; p. 868.
- Firearm. R. von Frommer. No. 1,161,172; Nov. 23; Gaz. vol. 220; p. 1105.
- Firearm. J. H. Wesson. No. 1,146,984; July 20; Gaz. vol. 216; p. 744.
- Firearm. F. K. Young. No. 1,157,750; Oct. 26; Gaz. vol. 219; p. 966.

Alphabetical list of inventions—Continued.

- Firearm attachment. A. Weigel. No. 1,128,739; Feb. 16; Gaz. vol. 211; p. 813.
- Firearm, Automatic. R. Becker. No. 1,144,285; June 22; Gaz. vol. 215; p. 1220.
- Firearm, Automatic. I. N. Lewis. No. 1,142,896; June 15; Gaz. vol. 215; p. 711.
- Firearm, Automatic. P. Mauser. No. 1,125,578; Jan. 19; Gaz. vol. 210; p. 916.
- Firearm, Automatic. P. Mauser. No. 1,130,312; Mar. 2; Gaz. vol. 212; p. 163.
- Firearm, Automatic. P. Mauser. No. 1,131,721; Mar. 16; Gaz. vol. 212; p. 720.
- Firearm, Automatic. P. Mauser. No. 1,159,059; Nov. 2; Gaz. vol. 220; p. 224.
- Firearm, Automatic. B. Orman. No. 1,128,180; Feb. 9; Gaz. vol. 211; p. 572.
- Firearm, Automatic. B.-A. Revelli. No. 1,159,417; Nov. 9; Gaz. vol. 220; p. 383.
- Firearm, Automatic hand-. A. Fyrberg. No. 1,131,360; Mar. 9; Gaz. vol. 212; p. 560.
- Firearm, Automatic magazine-. F. A. Diestelkamp. No. 1,126,726; Feb. 2; Gaz. vol. 211; p. 21.
- Firearm, Breech-loading. W. O. Barnes. No. 1,131,984; Mar. 16; Gaz. vol. 212; p. 818.
- Firearm, Breech-loading. G. H. Giddings. No. 1,156,222; Oct. 12; Gaz. vol. 219; p. 336.
- Firearm breech-lock. J. Dufek. No. 1,163,516; Dec. 7; Gaz. vol. 221; p. 274.
- Firearm firing mechanism, Automatic. P. Mauser. No. 1,150,611; Aug. 17; Gaz. vol. 217; p. 921.
- Firearm-magazine. J. H. Carl. No. 1,158,981; Nov. 2; Gaz. vol. 220; p. 198.
- Firearm, Repeating. C. G. Swebillus and H. T. R. Hanitz. No. 1,146,536; July 13; Gaz. vol. 216; p. 568.
- Firearm, Repeating. C. G. Swebillus and H. T. R. Hanitz. No. 1,147,659; July 20; Gaz. vol. 216; p. 980.
- Firearm safety device. P. Mauser. No. 1,150,610; Aug. 17; Gaz. vol. 217; p. 921.
- Firearm, Self-loading. H. Stamm. No. 1,132,044; Mar. 16; Gaz. vol. 212; p. 838.
- Firearm-sight. G. L. Barnes. No. 1,131,029; Mar. 9; Gaz. vol. 212; p. 447.
- Firearm-sight. D. Grant. No. 1,131,057; Mar. 9; Gaz. vol. 212; p. 456.
- Firearm-sight. R. L. Warner. (Reissue.) No. 14,009; Nov. 9; Gaz. vol. 220; p. 635.
- Firearm-sight. J. Windridge. No. 1,138,708; May 11; Gaz. vol. 214; p. 383.
- Firearm-sight. J. Windridge. No. 1,138,709; May 11; Gaz. vol. 214; p. 383.
- Firearm, Single-trigger. A. E. Lard. No. 1,147,737; July 27; Gaz. vol. 216; p. 1034.
- Firearm with toggle-joint, Automatic. H. Borchardt. No. 1,160,831; Nov. 16; Gaz. vol. 220; p. 940.
- Firearms, Box-magazine for. P. Mauser. No. 1,129,884; Mar. 2; Gaz. vol. 212; p. 18.
- Firearms, Breech-closure for. J. Blish. No. 1,131,319; Mar. 9; Gaz. vol. 212; p. 547.
- Firearms, Cleaning attachment for. A. O. Niedner. No. 1,133,571; Mar. 30; Gaz. vol. 212; p. 1477.
- Firearms, Device for securing telescope-sights to. P. Mauser. No. 1,132,105; Mar. 16; Gaz. vol. 212; p. 859.
- Firearms, Firing mechanism for automatic. R. Frommer. No. 1,159,004; Nov. 2; Gaz. vol. 220; p. 206.
- Firearms, Frame and receiver construction for. C. H. Barnes. No. 1,157,752; Oct. 26; Gaz. vol. 219; p. 967.
- Firearms, Magazine for. A. V. Dickey. No. 1,148,297; July 27; Gaz. vol. 216; p. 1232.
- Firearms, Mechanism for attaching sighting-telescopes to. T. A. Fildjeland. No. 1,144,647; June 29; Gaz. vol. 215; p. 1371.
- Firearms, Protector for the front sights of shoulder-. T. C. Johnson. No. 1,162,367; Nov. 30; Gaz. vol. 220; p. 1569.
- Firearms, Registering device for repeating. H. Home-wood and F. G. Normart. No. 1,128,784; Feb. 16; Gaz. vol. 211; p. 829.
- Firearms, Safety mechanism for. G. Hammond. No. 1,126,201; Jan. 26; Gaz. vol. 210; p. 1175.
- Firearms, Safety mechanism for. C. G. Swebillus and H. T. R. Hanitz. No. 1,129,527; Feb. 23; Gaz. vol. 211; p. 1127.
- Firearms, Search-light for. E. S. Ward. No. 1,149,705; Aug. 10; Gaz. vol. 217; p. 539.
- Firearms, Sight for. J. W. Atlee. No. 1,129,326; Feb. 23; Gaz. vol. 211; p. 1056.
- Firearms, Telescope-sight for. O. Jones. No. 1,129,298; Feb. 23; Gaz. vol. 211; p. 1047.
- Firearms, Toggle breech mechanism for automatic. H. Borchardt. No. 1,147,780; July 27; Gaz. vol. 216; p. 1047.
- Fireman's helmet. J. M. Ganzer. No. 1,139,177; May 11; Gaz. vol. 214; p. 551.
- Fireplace. G. B. Haggard. No. 1,150,029; Aug. 17; Gaz. vol. 217; p. 716.
- Fireplace-back. F. P. Nale and E. J. Hudnall. No. 1,154,045; Sept. 21; Gaz. vol. 218; p. 666.
- Fireplace-heater, Mantel. R. E. Parker. No. 1,145,387; July 6; Gaz. vol. 216; p. 143.
- Fireplace heating appliance. G. H. Russell. No. 1,152,912; Sept. 7; Gaz. vol. 218; p. 195.
- Fireplace-lining. B. R. Williams. No. 1,136,856; Apr. 20; Gaz. vol. 213; p. 1065.
- Fireplaces, Combined throat and smoke-chamber for. H. C. Wayland. No. 1,161,914; Nov. 30; Gaz. vol. 220; p. 1411.
- Fireproof and waterproof covering and making same. W. J. Moeller. No. 1,141,136; June 1; Gaz. vol. 215; p. 16.
- Fireproof building construction. J. G. Braun. No. 1,157,078; Oct. 19; Gaz. vol. 219; p. 667.
- Fireproof cabinet. R. Friedrich. No. 1,140,670; May 25; Gaz. vol. 214; p. 1145.
- Fireproof construction. S. J. Hayde. No. 1,136,874; Apr. 20; Gaz. vol. 213; p. 1071.
- Fireproof door. L. W. Doren. No. 1,152,011; Aug. 31; Gaz. vol. 217; p. 1504.
- Fireproof door. F. W. Hargrave and J. A. Wheeler. No. 1,163,913; Dec. 14; Gaz. vol. 221; p. 457.
- Fireproof door. F. W. Hargrave and J. A. Wheeler. No. 1,163,914; Dec. 14; Gaz. vol. 221; p. 458.
- Fireproof door. J. A. Wheeler. No. 1,123,450; Jan. 5; Gaz. vol. 210; p. 87.
- Fireproof door. J. A. Wheeler. No. 1,123,451; Jan. 5; Gaz. vol. 210; p. 87.
- Fireproof guideway for doors and shutters. W. B. Gervais. No. 1,131,924; Mar. 16; Gaz. vol. 212; p. 795.
- Fireproof insulating composition. F. M. Keener. No. 1,133,380; Mar. 30; Gaz. vol. 212; p. 1408.
- Fireproof metal window-frame. E. Linck. No. 1,134,392; Apr. 6; Gaz. vol. 213; p. 112.
- Fireproof partition. I. E. Gleason. No. 1,134,736; Apr. 6; Gaz. vol. 213; p. 239.
- Fireproof partition. J. D. Maitland. No. 1,146,586; July 13; Gaz. vol. 216; p. 586.
- Fireproof partition. H. K. Paxson and E. J. Hedden. No. 1,137,165; Apr. 27; Gaz. vol. 213; p. 1213.
- Fireproof structures, Fusible washer for. W. B. Gervais. No. 1,131,925; Mar. 16; Gaz. vol. 212; p. 795.
- Fireproof utensils from refractory oxides, Manufacture of. H. Arnold. No. 1,157,662; Oct. 26; Gaz. vol. 219; p. 935.
- Fireproof waste-pail. C. H. Stephenson. No. 1,148,261; July 27; Gaz. vol. 216; p. 1219.
- Fireproof window for warehouses. O. M. Beck. No. 1,128,402; Feb. 16; Gaz. vol. 211; p. 697.
- Fireproofing composition. A. M. J. Tumminelli. No. 1,126,132; Jan. 26; Gaz. vol. 210; p. 1149.
- Fireworks and making same. A. Jedel. No. 1,145,421; July 6; Gaz. vol. 216; p. 155.
- Firing device, Underfeed. O. Virden. No. 1,153,979; Sept. 21; Gaz. vol. 218; p. 642.
- Fish-catcher. I. B. Knapp. No. 1,164,528; Dec. 14; Gaz. vol. 221; p. 673.
- Fish, Cleaning. A. Hauber. No. 1,134,530; Apr. 6; Gaz. vol. 213; p. 163.
- Fish-cleaning apparatus. A. Hauber. No. 1,134,529; Apr. 6; Gaz. vol. 213; p. 163.
- Fish-cleaning machine. N. B. Anderson. No. 1,137,448; Apr. 27; Gaz. vol. 213; p. 1317.
- Fish-cutting machine, endless-chain conveyer. F. D. Cleveland. No. 1,125,654; Jan. 19; Gaz. vol. 210; p. 944.
- Fish-dressing machines, Cleaning attachment for. N. B. Anderson. No. 1,137,449; Apr. 27; Gaz. vol. 213; p. 1317.
- Fish-grapple. T. H. Batla. No. 1,148,740; Aug. 3; Gaz. vol. 217; p. 93.
- Fish-holding frame. A. O. Alexander. No. 1,132,417; Mar. 16; Gaz. vol. 212; p. 974.
- Fish-hook. S. T. Bonner. No. 1,152,698; Sept. 7; Gaz. vol. 218; p. 117.
- Fish-hook. J. S. Bosserman. No. 1,154,168; Sept. 21; Gaz. vol. 218; p. 708.
- Fish-hook. V. Gebhardt. No. 1,157,772; Oct. 26; Gaz. vol. 219; p. 972.
- Fish-hook. C. Heddon. No. 1,133,724; Mar. 30; Gaz. vol. 212; p. 1533.
- Fish-hook. W. L. C. Koch. No. 1,134,622; Apr. 6; Gaz. vol. 213; p. 196.
- Fish-hook. C. A. Krennick. No. 1,156,152; Oct. 12; Gaz. vol. 219; p. 314.
- Fish-hook. C. C. Mau. No. 1,156,795; Oct. 12; Gaz. vol. 219; p. 536.
- Fish-hook bait-retaining attachment. J. W. Rife. No. 1,150,386; Aug. 17; Gaz. vol. 217; p. 843.
- Fish-hook spreader. R. S. Wiensfeld. No. 1,123,636; Jan. 5; Gaz. vol. 210; p. 150.
- Fish-hook striker, Automatic. C. A. Wymore. No. 1,148,810; Aug. 3; Gaz. vol. 217; p. 118.
- Fish-line reel. A. B. Nichols. No. 1,125,377; Jan. 19; Gaz. vol. 210; p. 848.
- Fish-line-reel holder. H. E. Manning. No. 1,154,123; Sept. 21; Gaz. vol. 218; p. 692.
- Fish-lure. F. L. Clarkson and O. P. Hummon. No. 1,131,909; Mar. 16; Gaz. vol. 212; p. 789.
- Fish, Machine for cutting off heads and tails of. F. D. Cleveland. No. 1,129,168; Feb. 23; Gaz. vol. 211; p. 1001.
- Fish-meat from liquids, Apparatus for recovering particles of. J. E. Marsh. No. 1,124,774; Jan. 12; Gaz. vol. 210; p. 596.

Alphabetical list of inventions—Continued.

- Fish-net and tent frame. G. W. Halley. No. 1,158,489; Nov. 2; Gaz. vol. 220; p. 27.
- Fish-net-casting device. H. F. Dorsey. No. 1,154,563; Sept. 21; Gaz. vol. 218; p. 843.
- Fish-plate. J. Rundgren. No. 1,126,289; Jan. 26; Gaz. vol. 210; p. 1205.
- Fish positioning and cutting machine. F. D. Cleveland. No. 1,125,656; Jan. 19; Gaz. vol. 210; p. 945.
- Fish, Preserving and marketing fresh. A. M. McDougall. No. 1,140,178; May 18; Gaz. vol. 214; p. 939.
- Fish, rotary carrier, Machine for positioning. F. D. Cleveland. No. 1,125,655; Jan. 19; Gaz. vol. 210; p. 944.
- Fish-screen. J. Seppo. No. 1,132,041; Mar. 16; Gaz. vol. 212; p. 837.
- Fish-screen. R. A. Sherwood. No. 1,143,147; June 15; Gaz. vol. 215; p. 793.
- Fish-screen cleaner, Automatic. L. Briles. No. 1,143,496; June 15; Gaz. vol. 215; p. 920.
- Fish screen or barrier. G. K. Parker. No. 1,129,005; Feb. 16; Gaz. vol. 211; p. 909.
- Fish-splitting machine. C. Letin and F. Frey. No. 1,138,300; May 4; Gaz. vol. 214; p. 202.
- Fish-stop. H. Broberg. No. 1,147,301; July 20; Gaz. vol. 216; p. 852.
- Fish-stop. J. H. Dreher. No. 1,150,348; Aug. 17; Gaz. vol. 217; p. 830.
- Fish-tail bit. H. A. Bardeen. No. 1,136,203; Apr. 20; Gaz. vol. 213; p. 833.
- Fish-trap. N. H. Butcher. No. 1,161,186; Nov. 23; Gaz. vol. 220; p. 1110.
- Fish-trap. J. Umstätter. No. 1,134,428; Apr. 6; Gaz. vol. 213; p. 125.
- Fish-trap. G. W. Wilkerson. No. 1,146,911; July 20; Gaz. vol. 216; p. 717.
- Fish-trap, Floating. E. N. Paine. No. 1,157,417; Oct. 19; Gaz. vol. 219; p. 789.
- Fish-trap-operating means. J. R. Whelen. No. 1,164,898; Dec. 21; Gaz. vol. 221; p. 841.
- Fishing and other tackle, Link for. L. Mitchell-Henry. No. 1,159,325; Nov. 2; Gaz. vol. 220; p. 319.
- Fishing apparatus. A. Althoff. No. 1,163,193; Dec. 7; Gaz. vol. 221; p. 161.
- Fishing apparatus. C. Lawrence. No. 1,163,244; Dec. 7; Gaz. vol. 221; p. 178.
- Fishing-bob. J. G. and E. T. Tussing. No. 1,163,285; Dec. 7; Gaz. vol. 221; p. 192.
- Fishing device. D. Conekin. No. 1,138,541; May 4; Gaz. vol. 214; p. 286.
- Fishing device. D. Conekin. No. 1,138,542; May 4; Gaz. vol. 214; p. 287.
- Fishing device. H. P. Gandy. No. 1,163,078; Dec. 7; Gaz. vol. 221; p. 119.
- Fishing-flies and bait-books having snells, Book and book-leaf for holding. G. H. Fath. No. 1,133,846; Mar. 30; Gaz. vol. 212; p. 1576.
- Fishing-float. W. A. Easlick. No. 1,157,517; Oct. 19; Gaz. vol. 219; p. 823.
- Fishing-float attachment. S. W. Davis. No. 1,149,033; Aug. 3; Gaz. vol. 217; p. 194.
- Fishing-hook. J. S. Evans. No. 1,158,666; Nov. 2; Gaz. vol. 220; p. 91.
- Fishing-hook, Weedless. J. B. Fischer. No. 1,124,719; Jan. 12; Gaz. vol. 210; p. 577.
- Fishing-line attachment. S. Forster. No. 1,153,053; Sept. 7; Gaz. vol. 218; p. 244.
- Fishing-line float. L. W. Lory. No. 1,126,045; Jan. 26; Gaz. vol. 210; p. 1116.
- Fishing-line, Waterproofed. J. E. H. Hyde. No. 1,165,179; Dec. 21; Gaz. vol. 221; p. 941.
- Fishing-pole. J. G. Heirich, Jr. No. 1,157,106; Oct. 19; Gaz. vol. 219; p. 677.
- Fishing-pole attachment. G. Becher. No. 1,141,684; June 1; Gaz. vol. 215; p. 213.
- Fishing-pole hanger. M. V. B. Green. No. 1,127,987; Feb. 9; Gaz. vol. 211; p. 505.
- Fishing-reel. W. G. Blodgett. No. 1,150,575; Aug. 17; Gaz. vol. 217; p. 910.
- Fishing-reel. V. Bordner. No. 1,139,252; May 11; Gaz. vol. 214; p. 576.
- Fishing-reel. B. F. Flegel. No. 1,151,349; Aug. 24; Gaz. vol. 217; p. 1230.
- Fishing-reel. F. E. Horn. No. 1,159,031; Nov. 2; Gaz. vol. 220; p. 214.
- Fishing-reel. A. G. Lavertine. No. 1,123,764; Jan. 5; Gaz. vol. 210; p. 194.
- Fishing-reel. F. V. Phillips. No. 1,140,608; May 25; Gaz. vol. 214; p. 1125.
- Fishing-reel. F. C. Schramm. No. 1,145,038; July 6; Gaz. vol. 216; p. 23.
- Fishing-reel throw-off mechanism. P. Catucci. No. 1,135,497; Apr. 13; Gaz. vol. 213; p. 544.
- Fishing-rod. W. L. Bristow. No. 1,159,466; Nov. 9; Gaz. vol. 220; p. 401.
- Fishing-rod support. A. C. Hall. No. 1,131,508; Mar. 9; Gaz. vol. 212; p. 612.
- Fishing-rod support and alarm, Combined. H. Brewer and J. K. Shanaman. No. 1,132,158; Mar. 16; Gaz. vol. 212; p. 879.
- Fishing-seine. R. Dingwell. No. 1,152,081; Aug. 31; Gaz. vol. 217; p. 1530.
- Fishing-sinker. H. J. Fackenthal. No. 1,127,747; Feb. 9; Gaz. vol. 211; p. 419.
- Fishing-tackle. G. L. Gabler. No. 1,159,006; Nov. 2; Gaz. vol. 220; p. 207.
- Fishing-tackle. G. W. Upton. No. 1,140,779; May 25; Gaz. vol. 214; p. 1180.
- Fishing-tip. F. E. Brugman. No. 1,142,796; June 15; Gaz. vol. 215; p. 675.
- Fishing-tool. B. F. Blanchard. No. 1,130,881; Mar. 9; Gaz. vol. 212; p. 397.
- Fishing-tool. C. Moore. No. 1,152,335; Aug. 31; Gaz. vol. 217; p. 1617.
- Fishing-tool. C. W. Henderson. No. 1,156,289; Oct. 12; Gaz. vol. 219; p. 358.
- Fishing-trawl. W. P. Ryan. No. 1,138,896; May 11; Gaz. vol. 214; p. 451.
- Fishway. E. E. Prince. No. 1,157,639; Oct. 19; Gaz. vol. 219; p. 861.
- Fitting-platform for ladies' garments. A. Yelin and J. O. Houser. No. 1,131,101; Mar. 9; Gaz. vol. 212; p. 471.
- Fixture-lock. P. H. D. Walker. No. 1,128,560; Feb. 16; Gaz. vol. 211; p. 752.
- Fixture-support. J. G. Knight. No. 1,126,486; Jan. 26; Gaz. vol. 210; p. 1275.
- Fixture support and bracket. W. R. Blain. No. 1,148,436; July 27; Gaz. vol. 216; p. 1280.
- ixture, Ventilated. T. W. Dixon. No. 1,149,560; Aug. 10; Gaz. vol. 217; p. 484.
- Flag box, Signal-. C. E. Lundborg and A. J. Hall. No. 1,159,056; Nov. 2; Gaz. vol. 220; p. 223.
- Flags, Non-tangling device for. J. J. Buckley. No. 1,151,658; Aug. 31; Gaz. vol. 217; p. 1382.
- Flagpole. J. Dahlberg. No. 1,148,362; July 27; Gaz. vol. 216; p. 1257.
- Flagpole-ball. R. F. Prather. No. 1,124,056; Jan. 12; Gaz. vol. 210; p. 555.
- Flagpole, Surveyor's. W. A. Davidson. No. 1,131,915; Mar. 16; Gaz. vol. 212; p. 791.
- Flagstaff. E. E. Carr. No. 1,132,303; Mar. 16; Gaz. vol. 212; p. 934.
- Flagstaff. M. T. Olstad. No. 1,134,002; Mar. 30; Gaz. vol. 212; p. 1625.
- Flagstaff for golf-links and the like. C. Gibson. No. 1,135,372; Apr. 13; Gaz. vol. 213; p. 499.
- Flame and spark checking device. A. Hausam. No. 1,130,593; Mar. 2; Gaz. vol. 212; p. 263.
- Flame-extinguishing device. S. Kramer. No. 1,159,960; Nov. 9; Gaz. vol. 220; p. 579.
- Flames in tanks, Extinguishing. P. Steiner and O. Ad. No. 1,164,234; Dec. 14; Gaz. vol. 221; p. 568.
- Flange-lubricator. R. Wood. No. 1,134,363; Apr. 6; Gaz. vol. 213; p. 102.
- Flange-lubricator, Automatic. T. F. Bellhouse. No. 1,143,681; June 22; Gaz. vol. 215; p. 1009.
- Flange-union wrench. C. G. Dennis. No. 1,152,885; Sept. 7; Gaz. vol. 218; p. 186.
- Flanged shapes, Making. E. E. Slick. No. 1,143,735; June 22; Gaz. vol. 215; p. 1026.
- Flangeway-guard for highway-crossings. W. S. Newhall. No. 1,130,996; Mar. 9; Gaz. vol. 212; p. 435.
- Flangeway-guard for highway-crossings. W. S. Newhall. No. 1,130,997; Mar. 9; Gaz. vol. 212; p. 436.
- Flap folding and sealing machine. F. B. Martin. No. 1,136,353; Apr. 20; Gaz. vol. 213; p. 886.
- Flanging and heading machine, Combined. L. C. Shann. No. 1,154,661; Sept. 28; Gaz. vol. 218; p. 906.
- Flanging-machine. H. McCabe. No. 1,164,732; Dec. 21; Gaz. vol. 221; p. 733.
- Flanging-machine. C. W. Sievert. No. 1,124,963; Jan. 12; Gaz. vol. 210; p. 663.
- Flash-lettering machine. G. F. Bagge. No. 1,149,490; Aug. 10; Gaz. vol. 217; p. 459.
- Flash-light. A. J. Dupont. No. 1,132,173; Mar. 16; Gaz. vol. 212; p. 885.
- Flash-light. E. Grab. No. 1,162,287; Nov. 30; Gaz. vol. 220; p. 1542.
- Flash-light. A. J. Harnack. No. 1,148,839; Aug. 3; Gaz. vol. 217; p. 127.
- Flash-light. H. H. and H. T. Hipwell. No. 1,149,913; Aug. 10; Gaz. vol. 217; p. 614.
- Flash-light. H. T. Hipwell. No. 1,143,966; June 22; Gaz. vol. 215; p. 1106.
- Flash-light. H. M. Koretzky. No. 1,155,249; Sept. 28; Gaz. vol. 218; p. 1105.
- Flash-light. L. B. Lincoln. No. 1,151,201; Aug. 24; Gaz. vol. 217; p. 1182.
- Flash-light. G. Matthies and A. Rehberg, Jr. No. 1,151,114; Aug. 24; Gaz. vol. 217; p. 1150.
- Flash-light. W. S. McGuire. No. 1,130,529; Mar. 2; Gaz. vol. 212; p. 242.
- Flash-light apparatus. J. L. Courson. No. 1,159,179; Nov. 2; Gaz. vol. 220; p. 267.
- Flash-light apparatus. F. C. Schofield. No. 1,124,177; Jan. 5; Gaz. vol. 210; p. 333.
- Flash-light apparatus and lamps, Cartridge for. F. C. Schofield. No. 1,166,265; Dec. 28; Gaz. vol. 221; p. 1364.
- Flash-light apparatus, Automatic double. F. J. H. Rustige. No. 1,146,453; July 13; Gaz. vol. 216; p. 540.
- Flash-light belt, Collapsible duplex. J. F. Spalding. No. 1,155,377; Oct. 5; Gaz. vol. 219; p. 18.

- Flash-light case, Pocket. A. S. Lyhne. No. 1,160,519; Nov. 16; Gaz. vol. 220; p. 826.
- Flash-light, Pocket. H. H. and H. T. Hipwell. No. 1,134,977; Apr. 6; Gaz. vol. 213; p. 319.
- Flash-light, Pocket. A. S. Lyhne. No. 1,160,518; Nov. 16; Gaz. vol. 220; p. 826.
- Flash-light, Pocket. F. M. Rosenfeld. No. 1,150,066; Aug. 17; Gaz. vol. 217; p. 29.
- Flash-light, Portable. H. H. and H. T. Hipwell. No. 1,144,201; June 22; Gaz. vol. 215; p. 1191.
- Flash-light, Portable electric. C. J. Sagebrecht. No. 1,155,100; Sept. 28; Gaz. vol. 218; p. 1057.
- Flash-lights, Push and pinch contact-plug for. A. Brody. No. 1,153,420; Sept. 14; Gaz. vol. 218; p. 413.
- Flashing-block. I. Pomerantz. No. 1,161,791; Nov. 23; Gaz. vol. 220; p. 1322.
- Flask**—See—
Dental vulcanizing-flask. Molding-flask.
Dentist's vulcanizing-flask. Snap-flask.
Molder's flask.
- Flask. W. C. Bogenschütz. No. 1,134,368; Apr. 6; Gaz. vol. 213; p. 104.
- Flask-drying apparatus. A. McCarte. No. 1,134,398; Apr. 6; Gaz. vol. 213; p. 114.
- Flask or guard. A. Bruebach. No. 1,141,929; June 8; Gaz. vol. 215; p. 333.
- Flat-iron. S. Kako. No. 1,143,050; June 15; Gaz. vol. 215; p. 764.
- Flat-iron. R. P. Shannon. No. 1,131,277; Mar. 9; Gaz. vol. 212; p. 532.
- Flat-iron, Electric. H. P. Ball. No. 1,132,299; Mar. 16; Gaz. vol. 212; p. 933.
- Flat-iron, Electric. H. P. Ball. No. 1,149,172; Aug. 10; Gaz. vol. 217; p. 345.
- Flat-iron, Electric. W. H. Dalton. No. 1,124,303; Jan. 12; Gaz. vol. 210; p. 426.
- Flat-iron, Electric. W. J. Keep. No. 1,155,423; Oct. 5; Gaz. vol. 219; p. 35.
- Flat-iron holder and waxer. G. W. Hawkins. No. 1,140,265; May 18; Gaz. vol. 214; p. 967.
- Flat-iron, Magnetic. J. W. Moore. No. 1,135,389; Apr. 13; Gaz. vol. 213; p. 505.
- Flat-iron, Self-heating. H. W. Schoff, D. W. Young, Jr., and A. C. Dobrick. No. 1,146,025; July 13; Gaz. vol. 216; p. 388.
- Flat-iron support and safety-guard. F. Schuller. No. 1,141,272; June 1; Gaz. vol. 215; p. 65.
- Flax, Apparatus for removing seed and seed-pods from. N. E. Funk and L. P. Whitaker. No. 1,145,011; July 6; Gaz. vol. 216; p. 11.
- Flax felt, Producing. J. E. Lappen. No. 1,125,347; Jan. 19; Gaz. vol. 210; p. 836.
- Flax, hemp, and the like, Apparatus for steeping or retting. E. Feuillette. No. 1,152,159; Aug. 31; Gaz. vol. 217; p. 1556.
- Flax-machine. C. G. Cooke. No. 1,134,671; Apr. 6; Gaz. vol. 213; p. 215.
- Flax or other long-staple fibers to form slivers or yarn. Machine for drawing. J. V. Eves. No. 1,132,316; Mar. 16; Gaz. vol. 212; p. 939.
- Flax-puller. C. L. Spellman. No. 1,148,058; July 27; Gaz. vol. 216; p. 1147.
- Flax pulling and harvesting machine. N. E. Funk and L. P. Whitaker. No. 1,145,010; July 6; Gaz. vol. 216; p. 11.
- Flax pulling and harvesting machine. N. E. Funk and L. P. Whitaker. No. 1,145,012; July 6; Gaz. vol. 216; p. 12.
- Flax-straw fiber into paper-pulp, Converting. J. H. Melchers. No. 1,162,797; Dec. 7; Gaz. vol. 221; p. 23.
- Flexible box. W. C. Willets. No. 1,124,088; Jan. 5; Gaz. vol. 210; p. 302.
- Flexible coupling. C. H. Clark. No. 1,147,373; July 20; Gaz. vol. 216; p. 879.
- Flexible coupling. A. N. Classon. No. 1,164,468; Dec. 14; Gaz. vol. 221; p. 652.
- Flexible coupling. W. J. Francke. No. 1,155,227; Sept. 28; Gaz. vol. 218; p. 1098.
- Flexible coupling. C. V. Kerr. No. 1,159,774; Nov. 9; Gaz. vol. 220; p. 512.
- Flexible coupling. C. V. Kerr. No. 1,159,777; Nov. 9; Gaz. vol. 220; p. 513.
- Flexible coupling. W. Kleinow. No. 1,157,553; Oct. 19; Gaz. vol. 219; p. 834.
- Flexible coupling. E. M. Lloyd. No. 1,143,054; June 15; Gaz. vol. 215; p. 766.
- Flexible coupling. J. Loose. No. 1,150,441; Aug. 17; Gaz. vol. 217; p. 860.
- Flexible coupling. R. A. Smith. No. 1,165,551; Dec. 28; Gaz. vol. 221; p. 1108.
- Flexible coupling. D. Tappan. No. 1,160,213; Nov. 16; Gaz. vol. 220; p. 719.
- Flexible joint. E. F. Berry. No. 1,153,187; Sept. 14; Gaz. vol. 218; p. 328.
- Flexible joint. T. H. Mooney. No. 1,160,639; Nov. 16; Gaz. vol. 220; p. 871.
- Flexible joint. C. G. Sater. No. 1,148,862; Aug. 3; Gaz. vol. 217; p. 134.
- Flexible joint for dolls, &c. G. R. Dice. No. 1,155,135; Sept. 28; Gaz. vol. 218; p. 1069.
- Flexible strips, Mechanism for applying. R. E. Bates. No. 1,132,901; Mar. 23; Gaz. vol. 212; p. 1200.
- Float. H. C. Jorgensen. No. 1,143,830; June 22; Gaz. vol. 215; p. 1060.
- Float apparatus, Multiplier of efficiency for. O. Roschanek. No. 1,157,583; Oct. 19; Gaz. vol. 219; p. 843.
- Float, Blade-and-chain field-. M. A. Gullickson. No. 1,146,155; July 13; Gaz. vol. 216; p. 433.
- Float feed control. O. L. Ibrig. No. 1,147,800; July 27; Gaz. vol. 216; p. 1054.
- Float, Field-. M. A. Gullickson. No. 1,158,803; Nov. 2; Gaz. vol. 220; p. 138.
- Floats, Combination guide and line-clasp for. L. F. Perron. No. 1,152,755; Sept. 7; Gaz. vol. 218; p. 137.
- Floater or glass-drawing ring. J. J. Quertinmont. No. 1,130,537; Mar. 2; Gaz. vol. 212; p. 245.
- Floating crafts, and particularly of flying-boats, Device for preventing the capsizing of. K. Schultze. No. 1,128,062; Feb. 9; Gaz. vol. 211; p. 531.
- Flood and spot light, Adjustable. W. J. Davis, Jr., and A. P. Nirdlinger. No. 1,140,880; May 25; Gaz. vol. 214; p. 1218.
- Floor and ceiling construction. F. Burchartz. No. 1,142,486; June 8; Gaz. vol. 215; p. 530.
- Floor and ceiling plate. H. J. Kast. No. 1,159,392; Nov. 9; Gaz. vol. 220; p. 374.
- Floor-block for building constructions. R. W. Lyle. No. 1,125,908; Jan. 19; Gaz. vol. 210; p. 1035.
- Floor-box, Universal. W. A. Bonnell. No. 1,136,929; Apr. 27; Gaz. vol. 213; p. 1127.
- Floor-clamp. H. H. Meadows. No. 1,145,160; July 6; Gaz. vol. 216; p. 65.
- Floor-cleaner. A. W. Buchanan. No. 1,130,064; Mar. 2; Gaz. vol. 212; p. 78.
- Floor-cleaning machine. E. J. Stewart. No. 1,128,384; Feb. 16; Gaz. vol. 211; p. 691.
- Floor-covering. C. D. Armstrong. No. 1,134,578; Apr. 6; Gaz. vol. 213; p. 181.
- Floor-covering. C. S. Bird. No. 1,131,317; Mar. 9; Gaz. vol. 212; p. 547.
- Floor-covering. C. S. Bird and G. R. Wyman. No. 1,131,595; Mar. 9; Gaz. vol. 212; p. 641.
- Floor-covering. E. Hopkinson. No. 1,158,051; Oct. 26; Gaz. vol. 219; p. 1071.
- Floor-covering. P. C. N. Pederson. No. 1,128,182; Feb. 9; Gaz. vol. 211; p. 573.
- Floor-covering. P. C. N. Pederson. No. 1,158,835; Nov. 2; Gaz. vol. 220; p. 150.
- Floor-covering, Composition. W. Cowan. No. 1,140,958; May 25; Gaz. vol. 214; p. 1247.
- Floor, Endless. W. S. Ayres. No. 1,140,236; May 18; Gaz. vol. 214; p. 958.
- Floor-jack. H. O. Purdy. No. 1,148,046; July 27; Gaz. vol. 216; p. 1142.
- Floor-laying tool. A. N. Landgraf. No. 1,159,963; Nov. 9; Gaz. vol. 220; p. 580.
- Floor-mat. F. St. Louis. No. 1,144,442; June 29; Gaz. vol. 215; p. 1303.
- Floor or ceiling construction. F. Burchartz. No. 1,162,028; Nov. 30; Gaz. vol. 220; p. 1451.
- Floor-plate. C. F. Christian. No. 1,124,210; Jan. 5; Gaz. vol. 210; p. 345.
- Floor-polisher. L. A. McGrath. No. 1,136,150; Apr. 20; Gaz. vol. 213; p. 814.
- Floor-polisher. F. A. Schultz. No. 1,139,809; May 18; Gaz. vol. 214; p. 808.
- Floor-polisher. W. B. Thayer. No. 1,141,287; June 1; Gaz. vol. 215; p. 71.
- Floor-polisher. G. W. Van Alstyne. No. 1,164,893; Dec. 21; Gaz. vol. 221; p. 839.
- Floor-polishing machine. E. Cavicchi. No. 1,126,615; Jan. 26; Gaz. vol. 210; p. 1324.
- Floor, Portable knockdown. A. B. Eldred. No. 1,160,155; Nov. 16; Gaz. vol. 220; p. 700.
- Floor, Revolving dining-room. A. Martzolf. No. 1,140,176; May 18; Gaz. vol. 214; p. 938.
- Floor-scraper. W. F. Stern. No. 1,135,220; Apr. 13; Gaz. vol. 213; p. 447.
- Floor scraper or cleaner. P. E. Luethjohn. No. 1,156,790; Oct. 12; Gaz. vol. 219; p. 534.
- Floor-section, Tilting. C. E. Glessner. No. 1,144,651; June 29; Gaz. vol. 215; p. 1372.
- Floor structure. W. P. Francis. No. 1,158,196; Oct. 26; Gaz. vol. 219; p. 1122.
- Floor-surfacing machine. O. H. Holderer. No. 1,142,961; June 15; Gaz. vol. 215; p. 733.
- Floor-surfacing machine. C. H. Werner. No. 1,129,929; Mar. 2; Gaz. vol. 212; p. 33.
- Floor-treating machine. G. W. Meyers. No. 1,164,740; Dec. 21; Gaz. vol. 221; p. 786.
- Floors or floor-coverings, Appliance for polishing. W. Mount. No. 1,141,478; June 1; Gaz. vol. 215; p. 141.
- Floors, walls, and other surfaces, Composition for covering. G. Lizieri. No. 1,141,897; June 1; Gaz. vol. 215; p. 284.
- Flooring-driver. A. Hagel. No. 1,161,207; Nov. 23; Gaz. vol. 220; p. 1118.
- Flooring, Making imitation-tile. W. F. Walling. No. 1,132,502; Mar. 16; Gaz. vol. 212; p. 1006.
- Flooring or board, Matched. R. Houston. No. 1,124,228; Jan. 5; Gaz. vol. 210; p. 353.
- Flooring-tool. U. Ohlsen. No. 1,153,106; Sept. 7; Gaz. vol. 218; p. 262.

Alphabetical list of inventions—Continued.

- Floral frame.** C. Osborne. No. 1,151,382; Aug. 24; Gaz. vol. 217; p. 1240.
- Flotation-machine.** C. E. Rork. No. 1,136,485; Apr. 20; Gaz. vol. 213; p. 934.
- Flour.** S. S. and S. H. Nordin. No. 1,164,112; Dec. 14; Gaz. vol. 221; p. 528.
- Flour-aerating apparatus.** W. M. Nissley. No. 1,134,757; Apr. 6; Gaz. vol. 213; p. 246.
- Flour and product thereof, Treating.** T. T. Vernon. No. 1,155,977; Oct. 5; Gaz. vol. 219; p. 226.
- Flour bolting and dressing machines, Beater-blade for.** L. F. Little. No. 1,150,213; Aug. 17; Gaz. vol. 217; p. 782.
- Flour dressing and bolting machines, Partition-ring for.** L. F. Little. No. 1,161,487; Nov. 23; Gaz. vol. 220; p. 1217.
- Flour during the manufacture thereof, Purifying.** G. T. Smith. No. 1,154,547; Sept. 21; Gaz. vol. 218; p. 837.
- Flour, Manufacture of.** C. A. Patterson. No. 1,163,168; Dec. 7; Gaz. vol. 221; p. 151.
- Flour purifier and drier.** G. T. Smith. No. 1,154,067; Sept. 21; Gaz. vol. 218; p. 674.
- Flour-sprinkler.** C. P. Wagner. No. 1,128,559; Feb. 16; Gaz. vol. 211; p. 752.
- Flour, Treating.** W. G. Andrews. No. 1,136,501; Apr. 20; Gaz. vol. 213; p. 940.
- Flour, Treating.** F. D. Larabee. No. 1,136,881; Apr. 20; Gaz. vol. 213; p. 1073.
- Flow controller, Fluid.** W. A. Stevenson. No. 1,146,457; July 13; Gaz. vol. 216; p. 541.
- Flow-measuring apparatus.** G. H. Gibson. No. 1,152,310; Aug. 31; Gaz. vol. 217; p. 1607.
- Flow-measuring device.** F. N. Connet. No. 1,129,073; Feb. 23; Gaz. vol. 211; p. 967.
- Flow-meter.** A. R. Dodge. No. 1,157,301; Oct. 19; Gaz. vol. 219; p. 747.
- Flow-meter.** J. W. Shepherdson. No. 1,156,635; Oct. 12; Gaz. vol. 219; p. 482.
- Flow-meter.** L. A. Simmons. No. 1,156,638; Oct. 12; Gaz. vol. 219; p. 483.
- Flow-meter.** J. Wilkinson. No. 1,160,679; Nov. 16; Gaz. vol. 220; p. 886.
- Flow meter, Continuous.** F. Lambert. No. 1,148,593; Aug. 3; Gaz. vol. 217; p. 39.
- Flow meter, Liquid.** C. E. Anderson. No. 1,161,279; Nov. 23; Gaz. vol. 220; p. 1144.
- Flow-meter of the Venturi type.** R. H. Rice. No. 1,126,275; Jan. 26; Gaz. vol. 210; p. 1200.
- Flow meter, Steam.** L. A. Sheldon. No. 1,156,503; Oct. 12; Gaz. vol. 219; p. 436.
- Flow-meters, Integrating mechanism for.** A. R. Dodge. No. 1,155,303; Sept. 28; Gaz. vol. 218; p. 1121.
- Flow of a fluid, Device for regulating.** F. Filczer. No. 1,132,175; Mar. 16; Gaz. vol. 212; p. 886.
- Flow of combustible fluids, Safety device for controlling the.** W. H. Paine. No. 1,140,313; May 18; Gaz. vol. 214; p. 984.
- Flow of dirt-laden fluid, Apparatus for creating.** I. H. Spencer. No. 1,146,602; July 13; Gaz. vol. 216; p. 591.
- Flow of fluid, Regulator to control the.** I. H. Spencer. No. 1,155,525; Oct. 5; Gaz. vol. 219; p. 71.
- Flow of fluids, Means for controlling.** L. A. Merk. No. 1,141,647; June 1; Gaz. vol. 215; p. 199.
- Flow of fluids, Method and apparatus for measuring the.** E. J. Berg. No. 1,156,660; Oct. 12; Gaz. vol. 219; p. 492.
- Flow of fluids, Method of and means for measuring the.** M. A. Savage. No. 1,156,630; Oct. 12; Gaz. vol. 219; p. 480.
- Flow of fluids through conduits, Apparatus for controlling.** J. J. M. Gueux. No. 1,159,214; Nov. 2; Gaz. vol. 220; p. 280.
- Flow of liquids in closed conduits, Apparatus for measuring the.** F. Simpson and A. R. T. Woods. No. 1,132,399; Mar. 16; Gaz. vol. 212; p. 968.
- Flow of various materials, Apparatus for regulating the.** J. D. Webber. No. 1,162,002; Nov. 30; Gaz. vol. 220; p. 1442.
- Flow of water through turbine-gates, Mechanism for measuring and integrating the amount of.** H. E. Warren. No. 1,156,042; Oct. 5; Gaz. vol. 219; p. 249.
- Flows, Means for measuring and indicating.** H. Chrisman. No. 1,134,373; Apr. 6; Gaz. vol. 213; p. 106.
- Flower and lawn box, Subirrigated.** C. W. Courtney. No. 1,129,554; Feb. 23; Gaz. vol. 211; p. 1136.
- Flower, Artificial.** E. Allison. No. 1,148,208; July 27; Gaz. vol. 216; p. 1200.
- Flower-box.** T. P. Bolger. No. 1,133,836; Mar. 30; Gaz. vol. 212; p. 1572.
- Flower-box.** I. N. Shane. No. 1,142,634; June 8; Gaz. vol. 215; p. 580.
- Flower-box and the like.** A. L. Poessel. No. 1,132,210; Mar. 16; Gaz. vol. 212; p. 898.
- Flower-holder.** R. C. Lewis. No. 1,162,176; Nov. 30; Gaz. vol. 220; p. 1504.
- Flower-holder.** A. Salari. No. 1,135,401; Apr. 13; Gaz. vol. 213; p. 509.
- Flower-pot.** W. H. Malone and R. S. Jenkins. No. 1,133,735; Mar. 30; Gaz. vol. 212; p. 1536.
- Flower-pot handle and plant-support.** R. H. Comstock and R. J. McKie. No. 1,127,191; Feb. 2; Gaz. vol. 211; p. 186.
- Flue and hopper for fume-arresting apparatus, Cooler.** A. U. Field. No. 1,146,319; July 13; Gaz. vol. 216; p. 490.
- Flue-attaching device.** F. J. Colberg. No. 1,125,063; Jan. 19; Gaz. vol. 210; p. 733.
- Flue-cleaner.** C. Leonard and F. J. Thompson. No. 1,150,376; Aug. 17; Gaz. vol. 217; p. 840.
- Flue-cleaner.** C. Maier. No. 1,134,342; Apr. 6; Gaz. vol. 213; p. 95.
- Flue-cleaner.** A. C. Schmelzer. No. 1,160,658; Nov. 16; Gaz. vol. 220; p. 878.
- Flue-cleaner.** S. A. Soule. No. 1,147,824; July 27; Gaz. vol. 216; p. 1063.
- Flue-cleaner, Fluid-operable.** P. J. Darlington. No. 1,150,419; Aug. 17; Gaz. vol. 217; p. 854.
- Flue cleaning and straightening machine.** K. Matheus. No. 1,140,387; May 25; Gaz. vol. 214; p. 1045.
- Flue construction for buildings, Heating.** A. F. Thornburg. No. 1,148,061; July 27; Gaz. vol. 216; p. 1148.
- Flue-cutter.** P. Wagner. No. 1,160,019; Nov. 9; Gaz. vol. 220; p. 598.
- Flue-dust or other finely-divided material, Agglomerating.** C. Giesecke. No. 1,162,600; Nov. 30; Gaz. vol. 220; p. 1646.
- Flue-opening closure.** F. Archibald. No. 1,129,535; Feb. 23; Gaz. vol. 211; p. 1130.
- Flue-protector.** W. P. Tyree, Jr. No. 1,127,323; Feb. 2; Gaz. vol. 211; p. 230.
- Flue-stop, Adjustable.** W. E. Hart. No. 1,139,279; May 11; Gaz. vol. 214; p. 585.
- Flue-stub extractor.** W. H. Phillips. No. 1,151,712; Aug. 31; Gaz. vol. 217; p. 1400.
- Flue-supporting structure.** R. T. Anderson. No. 1,127,844; Feb. 9; Gaz. vol. 211; p. 455.
- Flue, Valved.** H. J. De Long. No. 1,165,946; Dec. 28; Gaz. vol. 221; p. 1246.
- Fluid-actuated engine.** A. J. Rich, Jr. No. 1,165,023; Dec. 21; Gaz. vol. 221; p. 885.
- Fluid-actuated motor.** G. Akans. No. 1,156,855; Oct. 12; Gaz. vol. 219; p. 559.
- Fluid-actuated motor.** D. S. Waugh. No. 1,159,303; Nov. 2; Gaz. vol. 220; p. 311.
- Fluid-brake.** R. N. Ehrhart. No. 1,161,116; Nov. 23; Gaz. vol. 220; p. 1083.
- Fluid-brake, Rotary.** C. R. Harris and R. G. Goldman. No. 1,127,237; Feb. 2; Gaz. vol. 211; p. 202.
- Fluid-circulating apparatus.** P. R. McCrary. No. 1,124,160; Jan. 5; Gaz. vol. 210; p. 327.
- Fluid-compressor.** E. E. Davis. No. 1,135,671; Apr. 13; Gaz. vol. 213; p. 607.
- Fluid-compressor.** E. E. Davis. (Reissue.) No. 13,949; July 20; Gaz. vol. 216; p. 995.
- Fluid-compressor.** E. H. Dewson. No. 1,162,851; Dec. 7; Gaz. vol. 221; p. 42.
- Fluid-compressor, regulator.** W. M. Donaldson. No. 1,138,199; May 4; Gaz. vol. 214; p. 167.
- Fluid-compressors, Suspension device for.** W. J. Richards. No. 1,162,881; Dec. 7; Gaz. vol. 221; p. 51.
- Fluid-distributing device.** C. C. Thomas. No. 1,159,549; Nov. 9; Gaz. vol. 220; p. 429.
- Fluid-distributing device.** C. C. Thomas. No. 1,165,637; Dec. 28; Gaz. vol. 221; p. 1140.
- Fluid-ejector.** M. Leblanc. No. 1,138,125; May 4; Gaz. vol. 214; p. 143.
- Fluid-elevating device.** W. J. McGuire. No. 1,142,762; June 8; Gaz. vol. 215; p. 623.
- Fluid-elevator.** F. C. Deemer. No. 1,153,373; Sept. 14; Gaz. vol. 218; p. 395.
- Fluid-feeding apparatus.** J. C. W. Greth and M. F. Newman. No. 1,150,673; Aug. 17; Gaz. vol. 217; p. 942.
- Fluid-fuel burner.** H. T. Petersen. No. 1,148,796; Aug. 3; Gaz. vol. 217; p. 113.
- Fluid-gage.** W. S. W. Edgar. No. 1,158,907; Nov. 2; Gaz. vol. 220; p. 174.
- Fluid-gage.** H. Hastings. No. 1,126,997; Feb. 2; Gaz. vol. 211; p. 117.
- Fluid-gage.** C. W. Stahle. No. 1,141,499; June 1; Gaz. vol. 215; p. 147.
- Fluid-gage.** C. W. Stahle. No. 1,141,500; June 1; Gaz. vol. 215; p. 148.
- Fluid-gage.** N. S. Wright. No. 1,129,265; Feb. 23; Gaz. vol. 211; p. 1035.
- Fluid-gage for automobiles and the like.** W. and T. M. Hampe and E. H. Rollin. No. 1,162,352; Nov. 30; Gaz. vol. 220; p. 1564.
- Fluid generator and motor mechanism, Elastic.** S. D. Simmons. No. 1,149,000; Aug. 3; Gaz. vol. 217; p. 182.
- Fluid heating and cooling apparatus.** L. D. Lovekin. No. 1,139,549; May 18; Gaz. vol. 214; p. 716.
- Fluid-holder.** S. S. Crippen. No. 1,130,802; Mar. 9; Gaz. vol. 212; p. 370.
- Fluid-indicating meter.** J. Wilkinson. No. 1,147,995; July 27; Gaz. vol. 216; p. 1124.
- Fluid-indicator.** I. Harrison. No. 1,162,916; Dec. 7; Gaz. vol. 221; p. 63.
- Fluid-level indicator.** M. M. Hart and R. W. Carpenter. No. 1,133,023; Mar. 23; Gaz. vol. 212; p. 1246.
- Fluid material, Method of and apparatus for treating.** C. Hering. No. 1,160,169; Nov. 16; Gaz. vol. 220; p. 705.
- Fluid-medium heater.** R. W. Ford. No. 1,160,870; Nov. 16; Gaz. vol. 220; p. 952.

- Fluid-meter. H. S. Dolbey. No. 1,146,409; July 13; Gaz. vol. 216; p. 521.
- Fluid-meter. P. Gaeth. No. 1,134,604; Apr. 6; Gaz. vol. 213; p. 189.
- Fluid-meter. H. C. Hayes. No. 1,141,631; June 1; Gaz. vol. 215; p. 193.
- Fluid-meter. H. W. King. No. 1,124,144; Jan. 5; Gaz. vol. 210; p. 321.
- Fluid-meter. F. Lambert. No. 1,155,667; Oct. 5; Gaz. vol. 219; p. 119.
- Fluid-meter. J. W. Ledoux. No. 1,135,119; Apr. 13; Gaz. vol. 213; p. 413.
- Fluid-meter. S. A. Reeve. No. 1,125,712; Jan. 19; Gaz. vol. 210; p. 967.
- Fluid-meter. B. M. Walpole. No. 1,146,377; July 13; Gaz. vol. 216; p. 510.
- Fluid-meter, Elastic-. T. Scott. No. 1,151,406; Aug. 24; Gaz. vol. 217; p. 1249.
- Fluid, Method and means for the generation of compound motive. B. L. Rinehart. No. 1,142,271; June 8; Gaz. vol. 215; p. 453.
- Fluid-mixing apparatus. W. W. Kemp and W. H. Van Horn. No. 1,141,466; June 1; Gaz. vol. 215; p. 136.
- Fluid-mixing device. F. A. Heath. No. 1,165,875; Dec. 28; Gaz. vol. 221; p. 1222.
- Fluid-molding press. H. M. Brookfield and S. Olsen. No. 1,137,000; Apr. 27; Gaz. vol. 213; p. 1153.
- Fluid-motor. H. W. Kimis. No. 1,132,188; Mar. 16; Gaz. vol. 212; p. 891.
- Fluid-motor. C. C. Wilkinson. No. 1,166,028; Dec. 28; Gaz. vol. 221; p. 1275.
- Fluid motor or pump. A. Sundh. No. 1,159,610; Nov. 9; Gaz. vol. 220; p. 452.
- Fluid motor or pump. A. Sundh. No. 1,159,611; Nov. 9; Gaz. vol. 220; p. 453.
- Fluid motor or pump. A. Sundh. No. 1,159,613; Nov. 9; Gaz. vol. 220; p. 454.
- Fluid motor, pump, and the like. C. H. Birch. No. 1,158,621; Nov. 2; Gaz. vol. 220; p. 75.
- Fluid-motor, Reciprocating. W. J. Meiluk. No. 1,147,963; July 27; Gaz. vol. 216; p. 1112.
- Fluid-operated engine. J. F. M. Patitz. No. 1,160,445; Nov. 16; Gaz. vol. 220; p. 799.
- Fluid-operated machines, Lock for handle-sleeves of. R. W. Rhodes. No. 1,131,794; Mar. 16; Gaz. vol. 212; p. 749.
- Fluid-operated motor. M. V. B. Ethridge. No. 1,163,330; Dec. 7; Gaz. vol. 221; p. 208.
- Fluid-pressure-actuated device, Controller for. C. T. Henderson. No. 1,141,114; June 1; Gaz. vol. 215; p. 9.
- Fluid-pressure and for operating integrating or control devices which have to be regulated by said differences of pressure, Apparatus for indicating and recording small differences of. F. Simpson. No. 1,132,400; Mar. 16; Gaz. vol. 212; p. 968.
- Fluid-pressure brake. W. V. Turner. No. 1,129,318; Feb. 23; Gaz. vol. 211; p. 1053.
- Fluid-pressure brake. W. V. Turner. No. 1,130,449; Mar. 2; Gaz. vol. 212; p. 213.
- Fluid-pressure brake. W. V. Turner. No. 1,130,450; Mar. 2; Gaz. vol. 212; p. 213.
- Fluid-pressure brake. W. V. Turner. No. 1,131,179; Mar. 9; Gaz. vol. 212; p. 498.
- Fluid-pressure brake. W. V. Turner. No. 1,131,969; Mar. 16; Gaz. vol. 212; p. 811.
- Fluid-pressure brake. W. V. Turner. No. 1,131,970; Mar. 16; Gaz. vol. 212; p. 811.
- Fluid-pressure brake. W. V. Turner. No. 1,131,972; Mar. 16; Gaz. vol. 212; p. 812.
- Fluid-pressure brake. W. V. Turner. No. 1,133,340; Mar. 30; Gaz. vol. 212; p. 1394.
- Fluid-pressure brake. W. V. Turner. No. 1,134,426; Apr. 6; Gaz. vol. 213; p. 125.
- Fluid-pressure brake. W. V. Turner. No. 1,136,061; Apr. 20; Gaz. vol. 213; p. 782.
- Fluid-pressure brake. W. V. Turner. No. 1,142,860; June 15; Gaz. vol. 215; p. 697.
- Fluid-pressure brake. W. V. Turner. No. 1,159,434; Nov. 9; Gaz. vol. 220; p. 389.
- Fluid-pressure brake. W. V. Turner. No. 1,162,826; Dec. 7; Gaz. vol. 221; p. 33.
- Fluid-pressure brake for locomotives. W. V. Turner. No. 1,130,448; Mar. 2; Gaz. vol. 212; p. 212.
- Fluid-pressure brake system. W. H. Sauvage. No. 1,139,376; May 11; Gaz. vol. 214; p. 618.
- Fluid-pressure brakes, Triple-valve device for. W. V. Turner. No. 1,131,178; Mar. 9; Gaz. vol. 212; p. 497.
- Fluid-pressure-controlling device. D. Scanlan. No. 1,146,526; July 13; Gaz. vol. 216; p. 565.
- Fluid-pressure cushioning and weighing mechanism. L. R. Gruss. No. 1,142,162; June 8; Gaz. vol. 215; p. 415.
- Fluid-pressure cut-off, Automatic. M. L. Grove. No. 1,155,915; Oct. 5; Gaz. vol. 219; p. 206.
- Fluid-pressure device. C. Dantsizen. No. 1,158,029; Oct. 26; Gaz. vol. 219; p. 1063.
- Fluid-pressure device. R. Liebau. No. 1,146,335; July 13; Gaz. vol. 216; p. 495.
- Fluid-pressure distributing and control system. L. E. Howard. No. 1,124,443; Jan. 12; Gaz. vol. 210; p. 477.
- Fluid-pressure engine. J. D. Roots. No. 1,125,722; Jan. 19; Gaz. vol. 210; p. 971.
- Fluid-pressure generator. J. F. Lindberg. No. 1,126,799; Feb. 2; Gaz. vol. 211; p. 48.
- Fluid-pressure-indicating gage. C. J. Manning. No. 1,166,070; Dec. 28; Gaz. vol. 221; p. 1288.
- Fluid-pressure motor. G. W. Burnhart. No. 1,142,551; June 8; Gaz. vol. 215; p. 552.
- Fluid-pressure motor. E. W. Meredith. No. 1,158,525; Nov. 2; Gaz. vol. 220; p. 41.
- Fluid-pressure motor. C. J. Olson. No. 1,138,969; May 11; Gaz. vol. 214; p. 476.
- Fluid-pressure motor for driving torpedoes. G. H. M. Canton. No. 1,152,004; Aug. 31; Gaz. vol. 217; p. 1502.
- Fluid-pressure motor, Rotary. F. M. Floyd. No. 1,124,409; Jan. 12; Gaz. vol. 210; p. 464.
- Fluid-pressure motor, Rotary. F. M. Floyd. No. 1,166,044; Dec. 28; Gaz. vol. 221; p. 1280.
- Fluid-pressure motor, Rotary. H. J. Hanzlik. No. 1,123,527; Jan. 5; Gaz. vol. 210; p. 113.
- Fluid pressure or flow regulator or controller. E. L. Sage. No. 1,136,619; Apr. 20; Gaz. vol. 213; p. 981.
- Fluid-pressure regulator. P. M. Grant. No. 1,166,358; Dec. 28; Gaz. vol. 221; p. 1396.
- Fluid-pressure regulator. A. Pfau. No. 1,157,957; Oct. 26; Gaz. vol. 219; p. 1038.
- Fluid-pressure regulator. J. M. Swanstrom. No. 1,159,431; Nov. 9; Gaz. vol. 220; p. 388.
- Fluid-pressure regulator and safety valve, Combined. A. L. Smyly. No. 1,161,990; Nov. 30; Gaz. vol. 220; p. 1438.
- Fluid-receptacles, Discharge control for. J. E. Carroll and W. H. Andrews. No. 1,152,485; Sept. 7; Gaz. vol. 218; p. 37.
- Fluid to a vessel containing variable pressures, Delivering. M. P. Miller. No. 1,145,866; July 6; Gaz. vol. 216; p. 312.
- Fluid-translating device. E. Seaver, Jr. No. 1,148,992; Aug. 3; Gaz. vol. 217; p. 179.
- Fluid transmission and differential, Combined. J. Zagora. No. 1,150,478; Aug. 17; Gaz. vol. 217; p. 875.
- Fluids, Apparatus for the production and utilization of working. O. Kraus. No. 1,151,366; Aug. 24; Gaz. vol. 217; p. 1235.
- Fluids by elastic fluid-pressure, Method of and apparatus for elevating. R. C. Browne. No. 1,154,745; Sept. 28; Gaz. vol. 218; p. 934.
- Fluids non-corrosive, Rendering corrosive. G. E. Ferguson. No. 1,151,255; Aug. 24; Gaz. vol. 217; p. 1200.
- Fluids of different characteristics and particularly for separating liquids and gases from vapors, Trap for separating. C. S. Brown. No. 1,163,316; Dec. 7; Gaz. vol. 221; p. 203.
- Fluids with coagulants, Apparatus for the treatment of. A. P. Strohmenger. No. 1,161,750; Nov. 23; Gaz. vol. 220; p. 1307.
- Flume-gate. A. J. Blakely. No. 1,158,165; Oct. 26; Gaz. vol. 219; p. 1111.
- Flume-joint coupling. W. D. Himes. No. 1,138,657; May 11; Gaz. vol. 214; p. 364.
- Flush bolt. J. E. Matthews. No. 1,162,795; Dec. 7; Gaz. vol. 221; p. 22.
- Flush bolt for doors, Extension. E. Ohnstrand. No. 1,162,945; Dec. 7; Gaz. vol. 221; p. 73.
- Flush receptacle. G. W. Goodridge. No. 1,142,695; June 8; Gaz. vol. 215; p. 600.
- Flush-tank. W. Briggs. No. 1,149,494; Aug. 10; Gaz. vol. 217; p. 461.
- Flush-tank. G. T. Hanchett. No. 1,134,126; Apr. 6; Gaz. vol. 213; p. 15.
- Flush-tank. D. S. McIlroy and W. Gibb. No. 1,140,053; May 18; Gaz. vol. 214; p. 895.
- Flush-tank control. H. M. Friesleben. No. 1,154,695; Sept. 28; Gaz. vol. 218; p. 918.
- Flush-tank for water-closet apparatus. W. U. Griffiths. No. 1,142,250; June 8; Gaz. vol. 215; p. 446.
- Flushing apparatus. W. Barnett. No. 1,149,887; Aug. 10; Gaz. vol. 217; p. 604.
- Flushing apparatus. A. J. Coburn. No. 1,165,228; Dec. 21; Gaz. vol. 221; p. 959.
- Flushing apparatus. A. J. Coburn and F. Hardie. No. 1,137,578; Apr. 27; Gaz. vol. 213; p. 1360.
- Flushing apparatus. J. Denton. No. 1,149,430; Aug. 10; Gaz. vol. 217; p. 440.
- Flushing apparatus. R. Pozzi. No. 1,155,005; Sept. 28; Gaz. vol. 218; p. 1021.
- Flushing apparatus. L. Simmons. No. 1,145,622; July 6; Gaz. vol. 216; p. 225.
- Flushing apparatus. L. Simmons. No. 1,142,917; June 15; Gaz. vol. 215; p. 717.
- Flushing apparatus. J. S. Taylor. No. 1,131,570; Mar. 9; Gaz. vol. 212; p. 632.
- Flushing apparatus. H. A. Thompson. No. 1,146,114; July 13; Gaz. vol. 216; p. 418.
- Flushing apparatus, Closet-. M. Mauer. No. 1,141,354; June 1; Gaz. vol. 215; p. 94.
- Flushing apparatus for water-closets. J. Hearl. No. 1,153,784; Sept. 14; Gaz. vol. 218; p. 540.
- Flushing apparatus, Sanitary. R. C. Sayer. No. 1,161,736; Nov. 23; Gaz. vol. 220; p. 1302.
- Flushing apparatus, Siphonic. C. E. Blackburn. No. 1,157,667; Oct. 26; Gaz. vol. 219; p. 937.

Alphabetical list of inventions—Continued.

- Flushing apparatus, Water-closet. J. Flockhart. No. 1,149,568; Aug. 10; Gaz. vol. 217; p. 487.
- Flushing apparatus, Water-closet. E. Hoerichs. No. 1,132,719; Mar. 23; Gaz. vol. 212; p. 1133.
- Flushing-cistern, R. H. Paus. No. 1,142,118; June 8; Gaz. vol. 215; p. 400.
- Flushing device. C. S. Burns. No. 1,130,885; Mar. 9; Gaz. vol. 212; p. 398.
- Flushing device. F. W. O. Kreter. No. 1,135,028; Apr. 13; Gaz. vol. 213; p. 382.
- Flushing device. A. J. Podmore and J. P. Croasdale. No. 1,148,253; July 27; Gaz. vol. 216; p. 1216.
- Flushing device, Closet. E. Thiry. No. 1,160,093; Nov. 9; Gaz. vol. 220; p. 623.
- Flushing device for hydraulic elevators. J. F. Hughes. No. 1,162,165; Nov. 30; Gaz. vol. 220; p. 1499.
- Flushing mechanism. B. Bensen. No. 1,139,397; May 11; Gaz. vol. 214; p. 626.
- Flushing mechanism for closets, Automatic. G. Schwibinger. No. 1,157,186; Oct. 19; Gaz. vol. 219; p. 705.
- Flushing mechanism for closets, Automatic. G. Schwibinger. No. 1,157,187; Oct. 19; Gaz. vol. 219; p. 705.
- Flushing-tank. M. Ainsworth. No. 1,151,148; Aug. 24; Gaz. vol. 217; p. 1164.
- Flushing-tank. W. A. Keen. No. 1,132,353; Mar. 16; Gaz. vol. 212; p. 951.
- Flushing-tank. G. Schommeyer. No. 1,134,234; Apr. 6; Gaz. vol. 213; p. 55.
- Flushing-tank, Disinfecter for. W. B. Campbell. No. 1,131,677; Mar. 16; Gaz. vol. 212; p. 706.
- Flushing-tank, Sanitary. J. L. Gish. No. 1,147,935; July 27; Gaz. vol. 216; p. 1103.
- Flushing-tank valve mechanism. C. T. Packer. No. 1,160,441; Nov. 16; Gaz. vol. 220; p. 798.
- Flushing-trap. C. A. Dunham. No. 1,161,202; Nov. 23; Gaz. vol. 220; p. 1116.
- Flushometer. D. M. McLaughlin. No. 1,161,781; Nov. 23; Gaz. vol. 220; p. 1317.
- Fly-catcher. W. A. and O. E. Hemenway. No. 1,154,310; Sept. 21; Gaz. vol. 218; p. 757.
- Fly-catcher. T. Kaiser. No. 1,128,454; Feb. 16; Gaz. vol. 211; p. 716.
- Fly-catcher. F. Rea. No. 1,165,712; Dec. 28; Gaz. vol. 221; p. 1166.
- Fly-catcher. O. J. Wilkens. No. 1,137,370; Apr. 27; Gaz. vol. 213; p. 1289.
- Fly-exterminator. E. L. Lee. No. 1,153,123; Sept. 7; Gaz. vol. 218; p. 267.
- Fly-killer. W. E. Titus. No. 1,143,738; June 22; Gaz. vol. 215; p. 1027.
- Fly-killer, Electric. R. B. Irvine. No. 1,163,823; Dec. 14; Gaz. vol. 221; p. 428.
- Fly-killer, Fountain-feed. S. Goldhammer. No. 1,139,030; May 11; Gaz. vol. 214; p. 500.
- Fly-killing apparatus. F. J. Anderson. No. 1,155,697; Oct. 5; Gaz. vol. 219; p. 129.
- Fly-paper guard. A. G. Harris. No. 1,165,251; Dec. 21; Gaz. vol. 221; p. 966.
- Fly-paper guard and holder. J. J. Connell. No. 1,158,119; Oct. 26; Gaz. vol. 219; p. 1095.
- Fly-paper holder. R. Hart. No. 1,132,007; Mar. 16; Gaz. vol. 212; p. 825.
- Fly-paper holder. C. P. Pfeifer. No. 1,152,544; Sept. 7; Gaz. vol. 218; p. 61.
- Fly-paper holder. C. M. Suck. No. 1,127,310; Feb. 2; Gaz. vol. 211; p. 226.
- Fly-paper holder. L. A. Walradt. No. 1,149,101; Aug. 3; Gaz. vol. 217; p. 216.
- Fly paper holder and trap. A. A. Semendinger. No. 1,159,718; Nov. 9; Gaz. vol. 220; p. 491.
- Fly-rod tip. P. A. Haberl and E. F. Warren. No. 1,149,131; Aug. 3; Gaz. vol. 217; p. 226.
- Fly-screen. R. N. Pitcher. No. 1,139,574; May 18; Gaz. vol. 214; p. 725.
- Fly-swatter. E. Brockman. No. 1,138,448; May 4; Gaz. vol. 214; p. 256.
- Fly-swatter. J. Jackson. No. 1,123,138; Jan. 5; Gaz. vol. 210; p. 319.
- Fly-swatter. F. E. Kendrick. No. 1,146,332; July 13; Gaz. vol. 216; p. 495.
- Fly-swatter. K. D. Saulpaw. No. 1,164,875; Dec. 21; Gaz. vol. 221; p. 834.
- Fly-swatter mechanism for screen-doors. T. E. Ericson. No. 1,128,301; Feb. 16; Gaz. vol. 211; p. 665.
- Fly-trap. A. L. Amend. No. 1,166,306; Dec. 28; Gaz. vol. 221; p. 1378.
- Fly-trap. R. H. Cox. No. 1,141,039; May 25; Gaz. vol. 214; p. 1273.
- Fly-trap, &c. R. H. Cox. No. 1,164,596; Dec. 14; Gaz. vol. 221; p. 694.
- Fly-trap. J. Crawford. No. 1,131,120; Mar. 9; Gaz. vol. 212; p. 478.
- Fly-trap. A. Csizmar. No. 1,148,660; Aug. 3; Gaz. vol. 217; p. 64.
- Fly-trap. A. Dunlap. No. 1,136,414; Apr. 20; Gaz. vol. 213; p. 909.
- Fly-trap. G. W. Holt. No. 1,159,384; Nov. 9; Gaz. vol. 220; p. 371.
- Fly-trap. L. D. and G. B. McLean. No. 1,131,535; Mar. 9; Gaz. vol. 212; p. 621.
- Fly-trap. J. Reinhart. No. 1,159,273; Nov. 2; Gaz. vol. 220; p. 300.
- Fly-trap. V. H. Weber. No. 1,163,489; Dec. 7; Gaz. vol. 221; p. 264.
- Fly-trap. M. E. Wilson. No. 1,132,141; Mar. 16; Gaz. vol. 212; p. 874.
- Fly-trap attachment for screens. L. B. Kimball and O. V. Hawk. No. 1,124,030; Jan. 5; Gaz. vol. 210; p. 282.
- Fly-trap, Collapsible. C. W. Von Dorn. No. 1,136,452; Apr. 20; Gaz. vol. 213; p. 922.
- Fly-trap, Electric. W. A. Bass. No. 1,159,157; Nov. 2; Gaz. vol. 220; p. 259.
- Fly-trap, Knockdown. A. E. Chapman. No. 1,136,210; Apr. 20; Gaz. vol. 213; p. 835.
- Flying-machine. J. F. Claesgens and F. A. Geiger. No. 1,133,707; Mar. 30; Gaz. vol. 212; p. 1527.
- Flying-machine. W. B. Clements. No. 1,145,406; July 6; Gaz. vol. 216; p. 151.
- Flying-machine. L. H. Dyer. No. 1,165,580; Dec. 28; Gaz. vol. 221; p. 1118.
- Flying-machine. G. M. Eckenwiler. No. 1,143,817; June 22; Gaz. vol. 215; p. 1055.
- Flying-machine. H. C. Gammeter. No. 1,135,009; Apr. 13; Gaz. vol. 213; p. 375.
- Flying-machine. C. Girolami. No. 1,124,415; Jan. 12; Gaz. vol. 210; p. 466.
- Flying-machine. G. Grandini. No. 1,139,860; May 18; Gaz. vol. 214; p. 826.
- Flying-machine. D. Hartley. No. 1,123,737; Jan. 5; Gaz. vol. 210; p. 184.
- Flying-machine. J. W. Headly. No. 1,133,643; Mar. 30; Gaz. vol. 212; p. 1503.
- Flying-machine. W. S. Isham. No. 1,135,455; Apr. 13; Gaz. vol. 213; p. 529.
- Flying-machine. M. F. J. L. Jumeau. No. 1,135,191; Apr. 13; Gaz. vol. 213; p. 438.
- Flying-machine. T. A. E. Lake. No. 1,127,028; Feb. 2; Gaz. vol. 211; p. 129.
- Flying-machine. W. B. McCarley. No. 1,133,984; Mar. 30; Gaz. vol. 212; p. 1619.
- Flying-machine. M. J. Mustonen. No. 1,130,623; Mar. 2; Gaz. vol. 212; p. 273.
- Flying-machine. J. F. O'Rourke. No. 1,144,052; June 22; Gaz. vol. 215; p. 1138.
- Flying-machine. C. H. Oumpough. No. 1,132,377; Mar. 16; Gaz. vol. 212; p. 960.
- Flying-machine. H. Reiche. No. 1,137,533; Apr. 27; Gaz. vol. 213; p. 1345.
- Flying-machine. A. Rochon. No. 1,145,388; July 6; Gaz. vol. 216; p. 144.
- Flying-machine. G. H. Schanck. No. 1,133,748; Mar. 30; Gaz. vol. 212; p. 1540.
- Flying-machine. J. Schröder. No. 1,151,297; Aug. 24; Gaz. vol. 217; p. 1213.
- Flying-machine. M. Schütze. No. 1,163,694; Dec. 14; Gaz. vol. 221; p. 380.
- Flying-machine. E. W. Smith. No. 1,132,288; Mar. 16; Gaz. vol. 212; p. 929.
- Flying-machine. R. M. Smith. No. 1,128,378; Feb. 16; Gaz. vol. 211; p. 688.
- Flying-machine. R. M. Smith. No. 1,128,379; Feb. 16; Gaz. vol. 211; p. 689.
- Flying-machine. R. M. Smith. No. 1,130,208; Mar. 2; Gaz. vol. 212; p. 127.
- Flying-machine. S. R. Smith. No. 1,139,820; May 18; Gaz. vol. 214; p. 812.
- Flying-machine. W. E. Somerville. No. 1,154,214; Sept. 21; Gaz. vol. 218; p. 723.
- Flying-machine. F. Steinmann. No. 1,141,431; June 1; Gaz. vol. 215; p. 124.
- Flying-machine. J. S. Stephens. No. 1,125,202; Jan. 19; Gaz. vol. 210; p. 784.
- Flying-machine. F. Stumpf. No. 1,157,337; Oct. 19; Gaz. vol. 219; p. 759.
- Flying-machine. J. H. Timbrell. No. 1,145,526; July 6; Gaz. vol. 216; p. 192.
- Flying-machine. W. I. Twombly. No. 1,165,048; Dec. 21; Gaz. vol. 221; p. 892.
- Flying-machine. G. Vorndran. No. 1,135,638; Apr. 13; Gaz. vol. 213; p. 595.
- Flying-machine. C. G. Walker. No. 1,153,143; Sept. 7; Gaz. vol. 218; p. 274.
- Flying-machine. F. Wallberg. No. 1,123,438; Jan. 5; Gaz. vol. 210; p. 83.
- Flying-machine. C. W. Waller. No. 1,132,049; Mar. 16; Gaz. vol. 212; p. 840.
- Flying-machine. E. Warner. No. 1,160,473; Nov. 16; Gaz. vol. 220; p. 810.
- Flying-machine. F. Wels. No. 1,154,466; Sept. 21; Gaz. vol. 218; p. 810.
- Flying-machine. C. S. White. No. 1,125,235; Jan. 19; Gaz. vol. 210; p. 796.
- Flying-machine. C. A. Worfel. No. 1,133,451; Mar. 30; Gaz. vol. 212; p. 1433.
- Flying-machine. C. C. Worthington. No. 1,135,242; Apr. 13; Gaz. vol. 213; p. 454.
- Flying-machine, Aerohydroplane. D. Hartley. No. 1,131,779; Mar. 16; Gaz. vol. 212; p. 742.
- Flying-machine, Aeroplane. J. H. Ostrander. No. 1,135,131; Apr. 13; Gaz. vol. 213; p. 418.
- Flying-machine brake. J. Schroeder. No. 1,156,633; Oct. 12; Gaz. vol. 219; p. 481.

Alphabetical list of inventions—Continued.

- Flying-machine, Heavier-than-air. G. H. Curtiss. No. 1,156,215; Oct. 12; Gaz. vol. 219; p. 333.
- Flying-machine, Heavier-than-air. C. B. Nichols. No. 1,134,756; Apr. 6; Gaz. vol. 213; p. 246.
- Flying-machine of the aeroplane type. M. B. Pupp. No. 1,128,272; Feb. 9; Gaz. vol. 211; p. 603.
- Flying-machine safety appliance. J. Messikommer. No. 1,143,643; June 22; Gaz. vol. 215; p. 996.
- Flying-machines, Automatic controller for. W. W. Swan. No. 1,150,903; Aug. 24; Gaz. vol. 217; p. 1079.
- Flying-machines, Stabilizing apparatus for. O. Wittkowski. No. 1,132,503; Mar. 16; Gaz. vol. 212; p. 1007.
- Fob-guard. H. A. Baer. No. 1,155,032; Sept. 28; Gaz. vol. 218; p. 1031.
- Focusing device, Automatic. L. W. Butler. No. 1,142,767; June 8; Gaz. vol. 215; p. 625.
- Fodder-binder. E. P. Gadow. No. 1,131,501; Mar. 9; Gaz. vol. 212; p. 610.
- Fodder-bundler. J. L. Wolfe. No. 1,144,275; June 22; Gaz. vol. 215; p. 1217.
- Fodder-carrier. G. A. Wirt. No. 1,130,786; Mar. 9; Gaz. vol. 212; p. 363.
- Fodder-squeezer. I. F. Boots. No. 1,146,047; July 13; Gaz. vol. 216; p. 396.
- Fog-signal for vessels. F. E. Pernot. No. 1,134,554; Apr. 6; Gaz. vol. 213; p. 172.
- Foil, bronze-foil, and metal foil, Manufacture of colored. C. and H. Sturm. No. 1,152,060; Aug. 31; Gaz. vol. 217; p. 1523.
- Foil package for tobacco and other substances. J. Peterson. No. 1,137,280; Apr. 27; Gaz. vol. 213; p. 1256.
- Foil sheet, Composite. J. Peterson. No. 1,137,278; Apr. 27; Gaz. vol. 213; p. 1255.
- Foldable box. J. H. Carter. No. 1,136,099; Apr. 20; Gaz. vol. 213; p. 795.
- Foldable box. B. F. McKeage, Jr. No. 1,127,052; Feb. 2; Gaz. vol. 211; p. 137.
- Folded-blank box. J. R. Van Wormer. No. 1,123,628; Jan. 5; Gaz. vol. 210; p. 148.
- Folded-blank box. J. R. Van Wormer. No. 1,157,462; Oct. 19; Gaz. vol. 219; p. 803.
- Folding and wrapping machine. S. C. Cox. No. 1,152,794; Sept. 7; Gaz. vol. 218; p. 151.
- Folding box. O. H. Beauregard. No. 1,129,627; Feb. 23; Gaz. vol. 211; p. 1162.
- Folding box. G. Dieckmann. No. 1,156,673; Oct. 12; Gaz. vol. 219; p. 496.
- Folding box. G. Dramis. No. 1,155,899; Oct. 5; Gaz. vol. 219; p. 200.
- Folding box. S. B. Field. No. 1,162,466; Nov. 30; Gaz. vol. 220; p. 1603.
- Folding box. J. Francis. No. 1,163,652; Dec. 14; Gaz. vol. 221; p. 365.
- Folding box. F. Geza. No. 1,154,697; Sept. 28; Gaz. vol. 218; p. 918.
- Folding box. I. Stancic. No. 1,164,668; Dec. 21; Gaz. vol. 221; p. 762.
- Folding box and cover. J. A. Scott. No. 1,156,250; Oct. 12; Gaz. vol. 219; p. 345.
- Foldable box and trunk. J. Rosko. No. 1,126,088; Jan. 26; Gaz. vol. 210; p. 1134.
- Folding and delivering mechanism. E. W. Cooper. No. 1,133,365; Mar. 30; Gaz. vol. 212; p. 1403.
- Folding and stapling device. H. A. W. Wood. No. 1,124,375; Jan. 12; Gaz. vol. 210; p. 453.
- Folding box. T. R. Barrabee. No. 1,149,805; Aug. 10; Gaz. vol. 217; p. 575.
- Folding box. S. Bergstein. No. 1,131,462; Mar. 9; Gaz. vol. 212; p. 507.
- Folding box. F. L. Carpenter. No. 1,146,847; July 20; Gaz. vol. 216; p. 694.
- Folding box. G. C. Cornell. No. 1,148,219; July 27; Gaz. vol. 216; p. 1204.
- Folding box. W. Grunow, Jr. No. 1,140,741; May 25; Gaz. vol. 214; p. 1168.
- Folding box. C. M. Johnson. No. 1,137,759; May 4; Gaz. vol. 214; p. 13.
- Folding box. J. J. Jones. No. 1,142,175; June 8; Gaz. vol. 215; p. 420.
- Folding box. G. Maier. No. 1,126,246; Jan. 26; Gaz. vol. 210; p. 1192.
- Folding box. B. L. Mareness. No. 1,144,770; June 29; Gaz. vol. 215; p. 1414.
- Folding box. B. B. McFadden. No. 1,142,186; June 8; Gaz. vol. 215; p. 424.
- Folding box. C. H. Seegmiller. No. 1,127,293; Feb. 2; Gaz. vol. 211; p. 221.
- Folding box. P. R. Warren. No. 1,136,454; Apr. 20; Gaz. vol. 213; p. 923.
- Folding box. G. Wedoo. No. 1,134,783; Apr. 6; Gaz. vol. 213; p. 256.
- Folding box. W. C. Willets. No. 1,144,803; June 29; Gaz. vol. 215; p. 1427.
- Folding box. W. C. Willets. No. 1,144,804; June 29; Gaz. vol. 215; p. 1427.
- Folding box. W. H. Woodard. No. 1,132,505; Mar. 16; Gaz. vol. 212; p. 1007.
- Folding box. W. C. Ziegler. No. 1,144,746; June 29; Gaz. vol. 215; p. 1407.
- Folding box and show-card. F. Schutze. No. 1,129,608; Feb. 23; Gaz. vol. 211; p. 1157.
- Folding box or case. H. Collins. No. 1,152,145; Aug. 31; Gaz. vol. 217; p. 1552.
- Folding box or shipping-case. S. B. Field. No. 1,126,967; Feb. 2; Gaz. vol. 211; p. 105.
- Folding chair. B. A. Adler. No. 1,135,647; Apr. 13; Gaz. vol. 213; p. 598.
- Folding chair. A. W. Brown and G. W. Sinclair. No. 1,143,355; June 15; Gaz. vol. 215; p. 872.
- Folding chair. J. Burkhardtmeier. No. 1,161,609; Nov. 23; Gaz. vol. 220; p. 1259.
- Folding chair. C. L. Craig. No. 1,129,793; Feb. 23; Gaz. vol. 211; p. 1216.
- Folding chair. A. S. Kinner and M. H. Palne. No. 1,148,905; Aug. 3; Gaz. vol. 217; p. 149.
- Folding chair. T. Lambeth. No. 1,162,618; Nov. 30; Gaz. vol. 220; p. 1652.
- Folding chair. O. P. Robinson. No. 1,162,104; Nov. 30; Gaz. vol. 220; p. 1479.
- Folding chair. H. L. Stull. No. 1,126,911; Feb. 2; Gaz. vol. 211; p. 86.
- Folding device for envelop, paper-bag, and like machines. M. Wescher and R. E. Fischer. No. 1,150,085; Aug. 17; Gaz. vol. 217; p. 735.
- Folding frame for portable machines. S. G. Todd. No. 1,123,425; Jan. 5; Gaz. vol. 210; p. 78.
- Folding gate. A. Fritz. No. 1,151,518; Aug. 24; Gaz. vol. 217; p. 1288.
- Folding gate. A. Fritz. No. 1,162,231; Nov. 30; Gaz. vol. 220; p. 1522.
- Folding hanger. W. S. C. Megill. No. 1,163,101; Dec. 7; Gaz. vol. 221; p. 127.
- Folding-machine. W. R. Allen. No. 1,152,259; Aug. 31; Gaz. vol. 217; p. 1590.
- Folding-machine. A. Bates and A. S. Kemp. No. 1,160,127; Nov. 16; Gaz. vol. 220; p. 690.
- Folding-machine. A. A. Boyce. No. 1,138,185; May 4; Gaz. vol. 214; p. 163.
- Folding-machine. F. C. Curtis. No. 1,129,556; Feb. 23; Gaz. vol. 211; p. 1137.
- Folding-machine. G. J. Dormandy. No. 1,126,421; Jan. 26; Gaz. vol. 210; p. 1252.
- Folding-machine. H. H. Freer. No. 1,161,040; Nov. 23; Gaz. vol. 220; p. 1057.
- Folding-machine. T. F. Hart. No. 1,125,845; Jan. 19; Gaz. vol. 210; p. 1012.
- Folding-machine. O. W. Johnson. No. 1,151,015; Aug. 24; Gaz. vol. 217; p. 1117.
- Folding-machine. A. Malm. No. 1,142,828; June 15; Gaz. vol. 215; p. 686.
- Folding-machine, Automatic. E. B. Roby. No. 1,160,957; Nov. 16; Gaz. vol. 220; p. 983.
- Folding-machine-operating mechanism. W. J. Beattie. No. 1,164,976; Dec. 21; Gaz. vol. 221; p. 870.
- Folding screen, Portable. E. G. McGinley. No. 1,141,808; June 1; Gaz. vol. 215; p. 253.
- Folding seat, Automatically. F. W. Rasmussen. No. 1,141,724; June 1; Gaz. vol. 215; p. 226.
- Folding table. F. W. Anderson. No. 1,165,382; Dec. 28; Gaz. vol. 221; p. 1049.
- Folding table. A. J. Baeker. No. 1,132,061; Mar. 16; Gaz. vol. 212; p. 844.
- Folding table. F. R. Dehullu. No. 1,154,692; Sept. 28; Gaz. vol. 218; p. 917.
- Folding table. H. L. Haskell. No. 1,131,780; Mar. 16; Gaz. vol. 212; p. 743.
- Folding table. H. L. Haskell. No. 1,136,129; Apr. 20; Gaz. vol. 213; p. 806.
- Folding table. C. H. Maggs. No. 1,165,991; Dec. 28; Gaz. vol. 221; p. 1262.
- Folding table. B. F. Orear. No. 1,145,505; July 6; Gaz. vol. 216; p. 185.
- Folding table. A. C. Rockwell. No. 1,164,753; Dec. 21; Gaz. vol. 221; p. 791.
- Folding table with adjustable drawing-board and artist's easel, Collapsible. L. S. Cozzens. No. 1,142,673; June 8; Gaz. vol. 215; p. 592.
- Font, Holy-water. A. H. De Lage. No. 1,144,175; June 22; Gaz. vol. 215; p. 1182.
- Food and confectionery compounds. H. H. Root and L. W. Boyden. No. 1,156,181; Oct. 12; Gaz. vol. 219; p. 323.
- Food and making it. A. Vartanian. No. 1,152,132; Aug. 31; Gaz. vol. 217; p. 1547.
- Food and preparing the same. Stock. T. B. Walker. No. 1,140,638; May 25; Gaz. vol. 214; p. 1135.
- Food cereal and making the same. E. B. Cox. No. 1,130,575; Mar. 2; Gaz. vol. 212; p. 258.
- Food-chopper. M. A. Rollman. No. 1,132,035; Mar. 16; Gaz. vol. 212; p. 835.
- Food-chopper. C. Schock. No. 1,130,024; Mar. 2; Gaz. vol. 212; p. 64.
- Food-chopper. C. Schock. No. 1,130,025; Mar. 2; Gaz. vol. 212; p. 64.
- Food compound. R. G. Jackson. No. 1,153,925; Sept. 21; Gaz. vol. 218; p. 624.
- Food compound. H. H. Root. No. 1,158,297; Oct. 26; Gaz. vol. 219; p. 1158.
- Food container and heater. J. Wachtelschneider. No. 1,130,222; Mar. 2; Gaz. vol. 212; p. 132.
- Food for cattle and other animals, Manufacture of. J. J. Easteck and J. J. A. De Whalley. No. 1,147,489; July 20; Gaz. vol. 216; p. 920.

Alphabetical list of inventions—Continued.

- Food from banana and milk and preparing same. H. E. Plunkett. No. 1,165,802; Dec. 28; Gaz. vol. 221; p. 1197.
- Food from bean-vines, Manufacture of. D. Y. Strauss. No. 1,141,079; May 25; Gaz. vol. 214; p. 1286.
- Food-inspecting device. H. M. Foster. No. 1,154,501; Sept. 21; Gaz. vol. 218; p. 821.
- Food, Making animal. P. Altenfeld. No. 1,124,831; Jan. 12; Gaz. vol. 210; p. 617.
- Food, Manufacture of cereal. W. T. Bailey. No. 1,165,646; Dec. 28; Gaz. vol. 221; p. 1143.
- Food or meat chopper. G. A. Downs. No. 1,123,710; Jan. 5; Gaz. vol. 210; p. 174.
- Food preparation and making same, Condensed molluscous. G. L. Lebritter. No. 1,155,743; Oct. 5; Gaz. vol. 219; p. 145.
- Food, Preparing a fish and cereal. W. Lamb. No. 1,125,131; Jan. 19; Gaz. vol. 210; p. 758.
- Food product. J. J. Burchenal. No. 1,135,351; Apr. 13; Gaz. vol. 213; p. 492.
- Food product. J. J. Burchenal. No. 1,135,935; Apr. 13; Gaz. vol. 213; p. 696.
- Food product. G. P. Mariner. No. 1,142,346; June 8; Gaz. vol. 215; p. 479.
- Food product. T. R. T. Maurice. No. 1,163,433; Dec. 7; Gaz. vol. 221; p. 245.
- Food product. C. A. O. Rosell. No. 1,154,059; Sept. 21; Gaz. vol. 218; p. 671.
- Food product and making same. H. Forscher. No. 1,130,723; Mar. 9; Gaz. vol. 212; p. 342.
- Food product and making the same. V. A. Parrott. No. 1,154,721; Sept. 28; Gaz. vol. 218; p. 926.
- Food product and preparing the same. H. L. Stafford. No. 1,143,087; June 15; Gaz. vol. 215; p. 778.
- Food product, Cereal. I. Pieser and C. G. Livingston. No. 1,155,093; Sept. 28; Gaz. vol. 218; p. 1055.
- Food product, Producing a. E. J. Mooklar. No. 1,141,816; June 1; Gaz. vol. 215; p. 255.
- Food products, Inclosing. C. W. Graham. No. 1,158,044; Oct. 26; Gaz. vol. 219; p. 1068.
- Food products, Preserving. W. B. Fenn. No. 1,141,238; June 1; Gaz. vol. 215; p. 52.
- Food remnants, Treating. E. C. Emery. No. 1,141,622; June 1; Gaz. vol. 215; p. 190.
- Food, Stock. T. B. Walker. No. 1,155,531; Oct. 5; Gaz. vol. 219; p. 73.
- Foods, Preparing. F. W. Lotz. No. 1,157,016; Oct. 19; Gaz. vol. 219; p. 646.
- Foodstuff containing free lecithin and making same. H. Martin. No. 1,150,691; Aug. 17; Gaz. vol. 217; p. 949.
- Foodstuffs from sulfite cellulose waste liquors, Making. J. König. No. 1,128,154; Feb. 9; Gaz. vol. 211; p. 564.
- Foodstuffs, Preparation of. O. I. Thorsen. No. 1,164,034; Dec. 14; Gaz. vol. 221; p. 501.
- Foot-arch support. F. S. Sargent. No. 1,126,296; Jan. 26; Gaz. vol. 210; p. 1208.
- Foot-arch-supporting saddle. I. Custar. No. 1,140,879; May 25; Gaz. vol. 214; p. 1218.
- Foot, Artificial. O. L. Savitz. No. 1,160,112; Nov. 9; Gaz. vol. 220; p. 631.
- Foot, Artificial. J. E. Wofe and T. Browning. No. 1,151,144; Aug. 24; Gaz. vol. 217; p. 1161.
- Foot-ball. H. Bromley. No. 1,128,099; Feb. 9; Gaz. vol. 211; p. 544.
- Foot-corset. J. O'Dwyer. No. 1,156,621; Oct. 12; Gaz. vol. 219; p. 477.
- Foot, Extension-. C. L. McFarland. No. 1,128,018; Feb. 9; Gaz. vol. 211; p. 516.
- Foot-gear. E. A. Llewellyn and J. R. Briggs. No. 1,139,197; May 11; Gaz. vol. 214; p. 558.
- Foot-gear attachment. H. F. Davis. No. 1,164,788; Dec. 21; Gaz. vol. 221; p. 804.
- Foot-protector for shoe-wearing animals. S. Alexander. No. 1,129,774; Feb. 23; Gaz. vol. 211; p. 1209.
- Foot-rest, Folding. R. Derbyshire. No. 1,133,109; Mar. 23; Gaz. vol. 212; p. 1276.
- Foot-rest, Junior. H. Selmann. No. 1,164,127; Dec. 14; Gaz. vol. 221; p. 533.
- Foot-scraper for vehicles. M. V. Brown. No. 1,146,399; July 13; Gaz. vol. 216; p. 518.
- Foot, Support for the anterior metatarsal arch of the. A. E. Block. No. 1,127,349; Feb. 2; Gaz. vol. 211; p. 238.
- Foot-toe cushion and shield. C. Hardesty. No. 1,129,670; Feb. 23; Gaz. vol. 211; p. 1175.
- Footboard. M. Feist. No. 1,129,342; Feb. 23; Gaz. vol. 211; p. 1061.
- Footmobile. W. S. Hasskarl. No. 1,124,897; Jan. 12; Gaz. vol. 210; p. 640.
- Footwear. F. E. W. Möller. No. 1,166,239; Dec. 28; Gaz. vol. 221; p. 1355.
- Footwear-clasp. L. P. Tindall. No. 1,153,732; Sept. 14; Gaz. vol. 218; p. 523.
- Footwear, Machine for the manufacture of. H. J. Asmus. No. 1,160,968; Nov. 16; Gaz. vol. 220; p. 987.
- Footwear, Spading-plate for waterproof. K. F. W. Koch. No. 1,152,185; Aug. 31; Gaz. vol. 217; p. 1564.
- Footwear tread-surface. R. Smith. No. 1,160,206; Nov. 16; Gaz. vol. 220; p. 717.
- Forge-curing device. J. Franklin. No. 1,148,894; Aug. 3; Gaz. vol. 217; p. 145.
- Force-cup. G. C. Reeves. No. 1,154,055; Sept. 21; Gaz. vol. 218; p. 670.
- Force-cup. W. F. Schacht. No. 1,152,981; Sept. 7; Gaz. vol. 218; p. 221.
- Force-feed lubricator. J. C. Gunn. No. 1,159,664; Nov. 9; Gaz. vol. 220; p. 470.
- Force-feed lubricator. W. J. Schlacks. No. 1,145,515; July 6; Gaz. vol. 216; p. 189.
- Force-feed lubricator. H. Smith. No. 1,132,627; Mar. 23; Gaz. vol. 212; p. 1100.
- Force-feed lubricator. C. C. Wakefield. No. 1,134,566; Apr. 6; Gaz. vol. 213; p. 176.
- Force-feed lubricator. G. W. Woods. No. 1,125,245; Jan. 19; Gaz. vol. 210; p. 799.
- Force-feed lubricator and governor for rotatable spindles. E. C. Wood. No. 1,134,714; Apr. 6; Gaz. vol. 213; p. 231.
- Forgery detection. H. M. Pilkington. No. 1,135,919; Apr. 13; Gaz. vol. 213; p. 691.
- Forging bucket-wheels, Process and apparatus for. F. S. White. No. 1,137,440; Apr. 27; Gaz. vol. 213; p. 1314.
- Forging couplings, Apparatus for. T. Patterson. No. 1,157,637; Oct. 19; Gaz. vol. 219; p. 860.
- Forging-dies. W. D. Forsyth. No. 1,157,212; Oct. 19; Gaz. vol. 219; p. 714.
- Forging-dies. W. D. Forsyth. No. 1,157,213; Oct. 19; Gaz. vol. 219; p. 715.
- Forging for car-truck side frames. W. D. Forsyth. No. 1,125,287; Jan. 19; Gaz. vol. 210; p. 815.
- Forging fulcrums. C. E. Bauer. No. 1,157,833; Oct. 26; Gaz. vol. 219; p. 994.
- Forging-machine. F. P. Bates. No. 1,151,753; Aug. 31; Gaz. vol. 217; p. 1415.
- Forging mechanism. J. T. Zwiker. No. 1,150,479; Aug. 17; Gaz. vol. 217; p. 876.
- Forging-presses, shears, &c., Mechanism for operating tables for. T. E. Holmes. No. 1,165,174; Dec. 21; Gaz. vol. 221; p. 939.
- Forging projectiles. F. S. White. No. 1,131,973; Mar. 16; Gaz. vol. 212; p. 813.
- Forging projectiles, Compound die for. F. S. White. No. 1,131,974; Mar. 16; Gaz. vol. 212; p. 813.
- Forging wheels. A. R. Hunt and J. H. Grose. No. 1,140,681; May 25; Gaz. vol. 214; p. 1148.
- Fork: See—
- Carving-fork. Hay-fork.
- Derrick-fork. Potato-fork.
- Grab-fork. Tuning-fork.
- Fork and spoon holder. D. J. Favreault. No. 1,151,452; Aug. 24; Gaz. vol. 217; p. 1263.
- Fork attachment, Agricultural. W. H. Eagan. No. 1,142,783; June 8; Gaz. vol. 215; p. 632.
- Fork-rack. C. E. Nilsson. No. 1,165,702; Dec. 28; Gaz. vol. 221; p. 1163.
- Form, Adjustable dress-. J. F. Dinn. No. 1,137,744; May 4; Gaz. vol. 214; p. 8.
- Form, Adjustable dress-. F. B. Granger. No. 1,153,218; Sept. 14; Gaz. vol. 218; p. 339.
- Form, Adjustable dress-. C. A. Ufford. No. 1,127,946; Feb. 9; Gaz. vol. 211; p. 491.
- Form, Centering-. H. Cooper. No. 1,160,382; Nov. 16; Gaz. vol. 220; p. 778.
- Form, Design-. J. L. Wiley. No. 1,125,423; Jan. 19; Gaz. vol. 210; p. 864.
- Form, Dress-. G. W. Bardwell. No. 1,140,941; May 25; Gaz. vol. 214; p. 1241.
- Form, Dress-. L. T. Furnas. No. 1,158,199; Oct. 26; Gaz. vol. 219; p. 1123.
- Form, Dress-. A. M. Jones. No. 1,125,336; Jan. 19; Gaz. vol. 210; p. 832.
- Form, Dress-. L. Penny. No. 1,147,427; July 20; Gaz. vol. 216; p. 899.
- Form, Expansible dress-. C. A. Ufford. No. 1,165,045; Dec. 21; Gaz. vol. 221; p. 893.
- Form for neckscarfs. W. H. Blanchard, Jr. No. 1,128,403; Feb. 16; Gaz. vol. 211; p. 698.
- Form for preserving and displaying waists and other garments. H. Moschowitz. No. 1,150,246; Oct. 12; Gaz. vol. 219; p. 344.
- Form, Garment-. N. Gloddy. No. 1,159,926; Nov. 9; Gaz. vol. 220; p. 567.
- Form, Garment-. E. Levin. No. 1,136,148; Apr. 20; Gaz. vol. 213; p. 813.
- Form, Garment-. A. J. Lundberg. No. 1,149,456; Aug. 10; Gaz. vol. 217; p. 448.
- Form, Garment-. D. H. Shapiro. No. 1,140,407; May 25; Gaz. vol. 214; p. 1053.
- Form, Garment-holding. S. D. Gihkerson. No. 1,132,841; Mar. 23; Gaz. vol. 212; p. 1180.
- Form, Mechanically-operated dress-. L. F. C. Haas and E. Jeheber. No. 1,134,844; Apr. 6; Gaz. vol. 213; p. 274.
- Form registering and line-up means. R. H. Kiebler. No. 1,158,133; Oct. 26; Gaz. vol. 219; p. 1100.
- Form, Sectional dress-. F. B. Granger. No. 1,153,219; Sept. 14; Gaz. vol. 218; p. 339.
- Form, Sectional garment-. E. Levin. No. 1,160,420; Nov. 16; Gaz. vol. 220; p. 791.
- Form, Sectional garment-. I. Levin. No. 1,153,633; Sept. 14; Gaz. vol. 218; p. 488.
- Form, Shirt-waist. G. Wordingham. No. 1,158,358; Oct. 26; Gaz. vol. 219; p. 1178.
- Form, Sleeve-. F. A. Monahan. No. 1,125,587; Jan. 19; Gaz. vol. 210; p. 919.

Alphabetical list of inventions—Continued.

- Form stand, Collapsible garment-. I. Levin. No. 1,153,634; Sept. 14; Gaz. vol. 218; p. 488.
- Forming device. J. B. Couture. No. 1,132,074; Mar. 16; Gaz. vol. 212; p. 849.
- Forming-machine. G. H. Petri. No. 1,141,884; June 1; Gaz. vol. 215; p. 278.
- Formaldehyde and phenol, Manufacturing condensation products from. H. Stockhausen and R. Grühl. No. 1,150,642; Aug. 17; Gaz. vol. 217; p. 933.
- Formaldehyde solution. G. P. Fuller. No. 1,143,114; June 15; Gaz. vol. 215; p. 787.
- Formaldehyde-sulfurous acid with aluminium oxid, Manufacture of salts of. L. G. Bleckwenn. No. 1,149,712; Aug. 10; Gaz. vol. 217; p. 541.
- Fortune-telling device. A. F. Raldeano. No. 1,157,581; Oct. 19; Gaz. vol. 219; p. 842.
- Foundry-cupola. G. M. Klug. No. 1,135,025; Apr. 13; Gaz. vol. 213; p. 381.
- Foundry molding-machine. W. D. Oddy. No. 1,137,658; Apr. 27; Gaz. vol. 213; p. 1386.
- Foundry-riddle. E. W. Beach. No. 1,131,768; Mar. 16; Gaz. vol. 212; p. 738.
- Foundry-riddle. M. F. Gleeson. No. 1,147,858; July 27; Gaz. vol. 216; p. 1076.
- Fountain: *See—*
- Bubbling fountain.
 - Drinking-fountain.
 - Drinking-cup fountain.
 - Poultry-fountain.
 - Printing-machine ink-fountain.
 - Printing-press ink-fountain.
 - Soap-fountain.
 - Soda-fountain.
 - Water-fountain.
 - Watering-fountain.
- Fountain. W. H. Cotton. No. 1,130,800; Mar. 9; Gaz. vol. 212; p. 369.
- Fountain-divider. J. Thompson. No. 1,158,334; Oct. 26; Gaz. vol. 219; p. 1170.
- Fountains, Automatic valve for stock-. E. B. Grunden-dike. No. 1,127,359; Feb. 2; Gaz. vol. 211; p. 241.
- Four-cycle engine. C. W. Snyder. No. 1,126,309; Jan. 26; Gaz. vol. 210; p. 1213.
- 4-ketones of the quinolin series, Producing. A. Kaufmann. No. 1,145,487; July 6; Gaz. vol. 216; p. 180.
- Fourdrinier machine. G. D. Kilberry. No. 1,147,871; July 27; Gaz. vol. 216; p. 1080.
- Fracture-clamp. J. X. Smith. No. 1,156,440; Oct. 12; Gaz. vol. 219; p. 413.
- Fragile-article carrier. W. D. Thomas. No. 1,140,857; May 25; Gaz. vol. 214; p. 1210.
- Frame: *See—*
- Awning-frame.
 - Bag-frame.
 - Bed-frame.
 - Bed-spring frame.
 - Bicycle-frame.
 - Blinder-frame.
 - Canoe motor-frame.
 - Car-frame.
 - Cultivator front frame.
 - Curtain-frame.
 - Curtain-stretching frame.
 - Cycle-frame.
 - Cycle and the like frame.
 - Cycle side-car frame.
 - Cycle spring-frame.
 - Embroidery-frame.
 - Fireproof metal window-frame.
 - Fish-handling frame.
 - Floral frame.
 - Folding frame.
 - Furnace-door frame.
 - Grader-frame.
 - Grave-mound frame.
 - Hacksaw-frame.
 - Hair-drying frame.
 - Heddle-frame.
 - Honeycomb-frame.
 - Hosiery-frame.
 - Lantern guard-frame.
 - Locomotive-frame.
 - Mattress-frame.
 - Metallic frame.
 - Mining-drill extension-frame.
 - Pack-frame.
 - Photographic-printing frame.
 - Piano-frame.
 - Picture-frame.
 - Plov-frame.
 - Poultry-picking frame.
 - Printing-frame.
 - Pulley-frame.
 - Quilting-frame.
 - Roving-frame.
 - Saw-frame.
 - Screen-frame.
 - Sewing-machine frame.
 - Shaping-machine frame.
 - Sheet-metal frame.
 - Side frame.
 - Spacing-frame.
 - Spectacle-frame.
 - Spinning-frame.
 - Stacking-frame.
 - Stanchion-supporting frame.
 - Tennis-racket frame.
 - Tent-frame.
 - Transit-frame.
 - Trestle-frame.
 - Truck-frame.
 - Truck side frame.
 - Turbo-driven-machine frame.
 - Umbrella-frame.
 - Umbrella and parasol frame.
 - Vehicle-frame.
 - Velocipede-frame.
 - Vestibule-frame.
 - Wagon-body frame.
 - Warp-frame.
 - Window-frame.
- Frame. J. L. Rawbon. No. 1,128,362; Feb. 16; Gaz. vol. 211; p. 684.
- Frame-joint. C. Fingerhut. No. 1,130,807; Mar. 9; Gaz. vol. 212; p. 371.
- Frames, Affixing covering materials to. L. E. Brown. No. 1,152,786; Sept. 7; Gaz. vol. 218; p. 148.
- Framing-joint, Metal. H. E. White. No. 1,165,049; Dec. 21; Gaz. vol. 221; p. 895.
- Framing-joint (welded), Metal. H. E. White. No. 1,165,048; Dec. 21; Gaz. vol. 221; p. 894.
- Framing, Metallic. C. A. Fullerton, L. A. Rushworth, and W. H. Paeth. No. 1,158,378; Oct. 26; Gaz. vol. 219; p. 1185.
- Framing-tool. A. Holmberg. No. 1,145,311; July 6; Gaz. vol. 216; p. 116.
- Framing-tool, Combination. N. Olsen. No. 1,142,527; June 8; Gaz. vol. 215; p. 544.
- Freezer. E. E. Phillips. No. 1,155,680; Oct. 5; Gaz. vol. 219; p. 124.
- Freight and baggage handling system. M. U. Bernheim. No. 1,124,272; Jan. 12; Gaz. vol. 210; p. 415.
- Freight and baggage transferring system. M. U. Bernheim. No. 1,124,267; Jan. 12; Gaz. vol. 210; p. 413.
- Freight and baggage transferring system. M. U. Bernheim. No. 1,124,268; Jan. 12; Gaz. vol. 210; p. 413.
- Freight and baggage transferring system. M. U. Bernheim. No. 1,124,269; Jan. 12; Gaz. vol. 210; p. 414.
- Freight and baggage transferring system. M. U. Bernheim. No. 1,124,270; Jan. 12; Gaz. vol. 210; p. 414.
- Freight and baggage transferring system. M. U. Bernheim. No. 1,124,271; Jan. 12; Gaz. vol. 210; p. 414.
- Freight and baggage transferring system. M. U. Bernheim. No. 1,124,273; Jan. 12; Gaz. vol. 210; p. 415.
- Freight-elevator. J. A. Butkus. No. 1,163,391; Dec. 7; Gaz. vol. 221; p. 230.
- Frequency-indicator. D. R. Price. No. 1,156,491; Oct. 12; Gaz. vol. 219; p. 432.
- Frequency-meter. F. Gordon. No. 1,137,965; May 4; Gaz. vol. 214; p. 86.
- Friction-brake. S. H. Keefer. No. 1,162,370; Nov. 30; Gaz. vol. 220; p. 1570.
- Friction-demonstrator. M. O. Reeves. No. 1,146,448; July 13; Gaz. vol. 216; p. 538.
- Friction device. P. H. Custis. No. 1,127,600; Feb. 9; Gaz. vol. 211; p. 367.
- Friction-lining. E. F. Kelley. No. 1,151,690; Aug. 31; Gaz. vol. 217; p. 1393.
- Friction-spring. R. D. Gallagher, Jr. No. 1,146,933; July 20; Gaz. vol. 216; p. 726.
- Friction-surface and forming same. P. H. Franz. No. 1,155,054; Sept. 28; Gaz. vol. 218; p. 1039.
- Friction-top can. J. C. Taliaferro. No. 1,128,076; Feb. 9; Gaz. vol. 211; p. 536.
- Frictional coupling. W. J. Bennett. No. 1,138,926; May 11; Gaz. vol. 214; p. 461.
- Frictional resistance device. J. J. Jones. No. 1,129,297; Feb. 23; Gaz. vol. 211; p. 1046.
- Fringe-knotting machine. W. E. Brassell. No. 1,134,721; Apr. 6; Gaz. vol. 213; p. 233.
- Frog, Rigid-point. H. F. Roach. No. 1,129,905; Mar. 2; Gaz. vol. 212; p. 25.
- Frogs, Adjustable block for. B. T. Gibbs, Jr. No. 1,151,097; Aug. 24; Gaz. vol. 217; p. 1144.
- Front drive mechanism. C. M. Mattes. No. 1,163,677; Dec. 14; Gaz. vol. 221; p. 374.
- Front-registering mechanism. F. L. Cross. No. 1,134,822; Apr. 6; Gaz. vol. 213; p. 267.
- Front-wheel-centering device. F. Y. Bowland. No. 1,154,908; Sept. 28; Gaz. vol. 218; p. 988.
- Frost-proof box. E. P. Stary. No. 1,151,132; Aug. 24; Gaz. vol. 217; p. 1157.
- Frosting and cake mixing device. R. L. Beck. No. 1,144,749; June 29; Gaz. vol. 215; p. 1407.
- Frozen confection and making the same. A. Toca. No. 1,134,777; Apr. 6; Gaz. vol. 213; p. 254.
- Fruit and vegetable cleaner and potato-sprouter. J. N. Hoffman. No. 1,128,981; Feb. 16; Gaz. vol. 211; p. 901.
- Fruit and vegetable cutter. C. Keebaugh. No. 1,155,931; Oct. 5; Gaz. vol. 219; p. 211.
- Fruit and vegetable dust and making same. H. Friedenthal. No. 1,130,588; Mar. 2; Gaz. vol. 212; p. 262.
- Fruit and vegetable grader. W. D. Wright and J. H. McCarthy. No. 1,159,460; Nov. 9; Gaz. vol. 220; p. 399.
- Fruit and vegetables, Machine for sizing. J. Rogge. No. 1,146,102; July 13; Gaz. vol. 216; p. 414.
- Fruit-bracing gate. C. W. McKinney. No. 1,147,637; July 20; Gaz. vol. 216; p. 972.
- Fruit-cell, Adjustable. R. Wheeler. No. 1,153,365; Sept. 14; Gaz. vol. 218; p. 393.
- Fruit-collecting apparatus. J. H. Brewer. No. 1,138,930; May 11; Gaz. vol. 214; p. 462.
- Fruit-crushing device. E. T. Meakin. No. 1,128,026; Feb. 9; Gaz. vol. 211; p. 519.
- Fruit-decorating implement. M. Altman. No. 1,146,610; July 13; Gaz. vol. 216; p. 594.
- Fruit-drier. J. H. Sprague. No. 1,142,465; June 8; Gaz. vol. 215; p. 523.
- Fruit-drying apparatus. G. D. Parker. No. 1,158,388; Oct. 26; Gaz. vol. 219; p. 1189.
- Fruit-drying machine. J. A. Byington. No. 1,158,980; Nov. 2; Gaz. vol. 220; p. 198.
- Fruit-gatherer. E. H. Crocker. No. 1,146,052; July 13; Gaz. vol. 216; p. 398.
- Fruit-gatherer. R. G. Cruson. No. 1,143,512; June 15; Gaz. vol. 215; p. 925.
- Fruit-gatherer. R. Fountain, J. K. Waters, and W. C. Winchester. No. 1,132,325; Mar. 16; Gaz. vol. 212; p. 942.
- Fruit-gatherer. P. H. Lint. No. 1,136,249; Apr. 20; Gaz. vol. 213; p. 849.
- Fruit-gatherer. T. M. Raney. No. 1,138,789; May 11; Gaz. vol. 214; p. 414.
- Fruit-gatherer. P. Tokaji. No. 1,159,810; Nov. 9; Gaz. vol. 220; p. 525.
- Fruit-gathering bag. C. A. Carpenter. No. 1,137,803; Apr. 27; Gaz. vol. 213; p. 1264.

Alphabetical list of inventions—Continued.

- Fruit-grader. H. H. Hardie. No. 1,148,165; July 27; Gaz. vol. 216; p. 1186.
- Fruit-grader. J. McGaffick. No. 1,148,914; Aug. 3; Gaz. vol. 217; p. 153.
- Fruit-grader. G. D. Parker. No. 1,139,714; May 18; Gaz. vol. 214; p. 775.
- Fruit-grader. G. D. Parker. No. 1,149,402; Aug. 10; Gaz. vol. 217; p. 429.
- Fruit-grading machine. H. R. Francis. No. 1,139,510; May 18; Gaz. vol. 214; p. 703.
- Fruit-grading machine. H. W. Welton. No. 1,140,782; May 25; Gaz. vol. 214; p. 1181.
- Fruit-grading machine. J. A. Woods, Jr. No. 1,132,506; Mar. 16; Gaz. vol. 212; p. 1008.
- Fruit-holder. E. Hyslin. No. 1,129,492; Feb. 23; Gaz. vol. 211; p. 1116.
- Fruit in cans, Machine for syringing. E. J. Engelhardt. No. 1,135,102; Apr. 13; Gaz. vol. 213; p. 408.
- Fruit-jar. F. Brelle, Sr. No. 1,142,231; June 8; Gaz. vol. 215; p. 439.
- Fruit-jar. C. Burnett. No. 1,165,314; Dec. 21; Gaz. vol. 221; p. 786.
- Fruit-jar. J. Conway. No. 1,146,137; July 13; Gaz. vol. 216; p. 427.
- Fruit-jar. J. Schnell. No. 1,164,553; Dec. 14; Gaz. vol. 221; p. 681.
- Fruit-jar. L. A. Scholz. No. 1,140,486; May 25; Gaz. vol. 214; p. 1082.
- Fruit-juices, Clarifying and concentrating. E. Monti. No. 1,158,261; Oct. 26; Gaz. vol. 219; p. 1144.
- Fruit, Marking. F. Ahlburg. No. 1,151,506; Aug. 24; Gaz. vol. 217; p. 1284.
- Fruit, Marking. F. Ahlburg. No. 1,151,507; Aug. 24; Gaz. vol. 217; p. 1284.
- Fruit or vegetable cutter. J. G. Denis. No. 1,142,681; June 8; Gaz. vol. 215; p. 595.
- Fruit-picker. P. A. Angesk. No. 1,158,158; Oct. 26; Gaz. vol. 219; p. 1109.
- Fruit-picker. A. Beverly. No. 1,130,057; Mar. 2; Gaz. vol. 212; p. 75.
- Fruit-picker. J. Bolton. No. 1,134,099; Apr. 6; Gaz. vol. 213; p. 6.
- Fruit-picker. E. D. Buzard. No. 1,133,927; Mar. 30; Gaz. vol. 212; p. 1602.
- Fruit-picker. J. L. Hawkins. No. 1,134,849; Apr. 6; Gaz. vol. 213; p. 275.
- Fruit-picker. E. F. Howell. No. 1,153,083; Sept. 7; Gaz. vol. 218; p. 254.
- Fruit-picker. A. W. Johnson. No. 1,134,862; Apr. 6; Gaz. vol. 213; p. 280.
- Fruit-picker. J. Jubert. No. 1,159,588; Nov. 9; Gaz. vol. 220; p. 444.
- Fruit-picker. C. F. A. Kellogg. No. 1,133,381; Mar. 30; Gaz. vol. 212; p. 1409.
- Fruit-picker. H. T. Lucas. No. 1,166,066; Dec. 28; Gaz. vol. 221; p. 1287.
- Fruit-picker. J. J. Mahoney. No. 1,152,331; Aug. 31; Gaz. vol. 217; p. 1615.
- Fruit-picker. C. Mann. No. 1,157,025; Oct. 19; Gaz. vol. 219; p. 649.
- Fruit-picker. L. E. Porter. No. 1,132,794; Mar. 23; Gaz. vol. 212; p. 1162.
- Fruit picker and conveyor, Automatic. J. W. Willis. No. 1,132,818; Mar. 23; Gaz. vol. 212; p. 1171.
- Fruit-picker conveyor. O. C. Gramling. No. 1,133,436; Mar. 30; Gaz. vol. 212; p. 1428.
- Fruit-picker, Hand. A. G. Critchfield. No. 1,151,441; Aug. 24; Gaz. vol. 217; p. 1260.
- Fruit-picker's bag. S. Mochida. No. 1,147,419; July 20; Gaz. vol. 216; p. 896.
- Fruit-picker's receptacle. R. Randall. No. 1,152,217; Aug. 31; Gaz. vol. 217; p. 1576.
- Fruit-pitting machine. O. Colborne and D. W. Smith. No. 1,136,509; Apr. 20; Gaz. vol. 213; p. 943.
- Fruit-press. C. Doma. No. 1,147,222; July 20; Gaz. vol. 216; p. 827.
- Fruit-press. J. J. Markovich. No. 1,149,530; Aug. 10; Gaz. vol. 217; p. 474.
- Fruit-press. S. E. Thoman. No. 1,137,808; May 4; Gaz. vol. 214; p. 30.
- Fruit-sizing apparatus. G. D. Parker. No. 1,145,079; July 6; Gaz. vol. 216; p. 38.
- Fruit-sizing machine. R. A. and W. P. Gill and C. A. Burke. No. 1,159,208; Nov. 2; Gaz. vol. 220; p. 278.
- Fruit-sorting machine. J. L. Maull. No. 1,124,486; Jan. 12; Gaz. vol. 210; p. 493.
- Fruit-stoning apparatus. B. Mai. No. 1,161,496; Nov. 23; Gaz. vol. 220; p. 1220.
- Fruit, Stuffed. H. C. Newcomb. No. 1,133,054; Mar. 23; Gaz. vol. 212; p. 1258.
- Fruit-treating apparatus. A. J. Nye. No. 1,125,382; Jan. 19; Gaz. vol. 210; p. 850.
- Fruit-washer. F. C. Randall. No. 1,161,727; Nov. 23; Gaz. vol. 220; p. 1298.
- Fruit-washing machine. J. L. Maull. No. 1,124,487; Jan. 12; Gaz. vol. 210; p. 494.
- Fuel, Air-feed for pulverized. S. H. Harrison. No. 1,155,725; Oct. 5; Gaz. vol. 219; p. 140.
- Fuel and making the same, Artificial. E. J. Babcock. No. 1,130,564; Mar. 2; Gaz. vol. 212; p. 254.
- Fuel, Apparatus for conveying liquid. C. Martini. No. 1,132,482; Mar. 16; Gaz. vol. 212; p. 998.
- Fuel, Artificial. A. H. Ege. No. 1,130,075; Mar. 2; Gaz. vol. 212; p. 81.
- Fuel-brick. W. Rakowski. No. 1,140,395; May 25; Gaz. vol. 214; p. 1049.
- Fuel-briquet. C. J. Schneider. No. 1,138,016; May 4; Gaz. vol. 214; p. 102.
- Fuel-briquet composition for iron-ore reduction. W. Loesch. No. 1,131,531; Mar. 9; Gaz. vol. 212; p. 620.
- Fuel-burning apparatus. H. B. Bozard. No. 1,154,606; Sept. 28; Gaz. vol. 218; p. 887.
- Fuel, Burning powdered. H. L. Doherty. No. 1,145,356; July 6; Gaz. vol. 216; p. 132.
- Fuel, Carbonaceous. W. H. Aldrich. No. 1,124,382; Jan. 12; Gaz. vol. 210; p. 455.
- Fuel carried by a locomotive-tender, Means for determining the weight of. L. S. Watres. No. 1,136,633; Apr. 20; Gaz. vol. 213; p. 985.
- Fuel carried by a locomotive-tender, Means for determining the weight of. L. S. Watres. No. 1,136,634; Apr. 20; Gaz. vol. 213; p. 986.
- Fuel, Combustion of. P. O. Perkins. No. 1,146,732; July 13; Gaz. vol. 216; p. 634.
- Fuel, Compound. N. A. Papadimitropoulos. No. 1,123,581; Jan. 5; Gaz. vol. 210; p. 131.
- Fuel-controlling device. L. A. Drago. (Reissue.) No. 1,139,333; June 22; Gaz. vol. 215; p. 1240.
- Fuel-controlling device. H. D. Yates. No. 1,158,094; Oct. 26; Gaz. vol. 219; p. 1087.
- Fuel-economizer. W. E. Bennett. No. 1,153,994; Sept. 21; Gaz. vol. 218; p. 648.
- Fuel-economizer. D. J. Freese. No. 1,124,411; Jan. 12; Gaz. vol. 210; p. 465.
- Fuel-economizer. J. C. Landefeld. No. 1,152,955; Sept. 7; Gaz. vol. 218; p. 212.
- Fuel-economizer. H. G. Tucker. No. 1,151,308; Aug. 21; Gaz. vol. 217; p. 1217.
- Fuel-economizers, Header-joint for. H. Slade. No. 1,161,078; Nov. 23; Gaz. vol. 220; p. 1070.
- Fuel-feeder. F. E. Bocorselski. No. 1,131,988; Mar. 16; Gaz. vol. 212; p. 819.
- Fuel-feeder. F. E. Bocorselski. No. 1,131,989; Mar. 16; Gaz. vol. 212; p. 819.
- Fuel feeder, Communitated. J. F. Hay. No. 1,160,283; Nov. 16; Gaz. vol. 220; p. 743.
- Fuel feeder, Powdered. W. L. Caven. No. 1,162,221; Nov. 30; Gaz. vol. 220; p. 1518.
- Fuel-feeding apparatus. R. Niedergesaess. No. 1,139,708; May 18; Gaz. vol. 214; p. 773.
- Fuel-feeding apparatus. J. H. Porter. No. 1,142,364; June 8; Gaz. vol. 215; p. 486.
- Fuel-feeding apparatus. G. L. Swift. No. 1,140,207; May 18; Gaz. vol. 214; p. 948.
- Fuel-feeding apparatus, Fine. J. A. Welton. No. 1,127,136; Feb. 2; Gaz. vol. 211; p. 166.
- Fuel-feeding apparatus, Finely-divided. C. Longenecker. No. 1,145,905; July 13; Gaz. vol. 216; p. 344.
- Fuel-feeding apparatus, Mechanical. I. Stordahl. No. 1,144,156; June 22; Gaz. vol. 215; p. 1175.
- Fuel-feeding apparatus, Pulverized. R. R. Lassiter. No. 1,165,520; Dec. 28; Gaz. vol. 221; p. 1097.
- Fuel-feeding device, Pulverized. A. D. Heyl. No. 1,145,894; July 13; Gaz. vol. 216; p. 340.
- Fuel-feeding system, Vacuum. H. C. Suckert. No. 1,162,819; Dec. 7; Gaz. vol. 221; p. 31.
- Fuel for kinetic engines and making the same. G. Blumberger. No. 1,158,367; Oct. 26; Gaz. vol. 219; p. 1181.
- Fuel-holder. J. L. Diehm. No. 1,133,940; Mar. 30; Gaz. vol. 212; p. 1607.
- Fuel-igniter. T. J. Crilly and F. M. Wilson. No. 1,150,177; Aug. 17; Gaz. vol. 217; p. 770.
- Fuel-injecting device. C. Pasel. No. 1,155,266; Sept. 28; Gaz. vol. 218; p. 1110.
- Fuel-injector. W. W. Brown. No. 1,164,064; Dec. 14; Gaz. vol. 221; p. 511.
- Fuel-injector. H. Lemp. No. 1,157,315; Oct. 19; Gaz. vol. 219; p. 751.
- Fuel-injector. C. Regenbogen. No. 1,142,623; June 8; Gaz. vol. 215; p. 576.
- Fuel-injector. G. E. Windeler. No. 1,157,273; Oct. 19; Gaz. vol. 219; p. 737.
- Fuel-lighter. R. W. Dull. No. 1,164,934; Dec. 21; Gaz. vol. 221; p. 855.
- Fuel, Making liquid. C. H. Warth. No. 1,131,880; Mar. 16; Gaz. vol. 212; p. 779.
- Fuel, Manufacture of various products from bituminous. R. Maclairin. No. 1,130,001; Mar. 2; Gaz. vol. 212; p. 57.
- Fuel-pressing machine. N. S. Clarke and A. L. Bowen. No. 1,129,455; Feb. 23; Gaz. vol. 211; p. 1102.
- Fuel-saver and smoke-consumer. J. L. Webster. No. 1,125,228; Jan. 19; Gaz. vol. 210; p. 793.
- Fuel-saving device. W. C. Blaske. No. 1,134,943; Apr. 6; Gaz. vol. 213; p. 306.
- Fuel-saving device. G. O'Neill. No. 1,153,333; Sept. 14; Gaz. vol. 218; p. 380.
- Fuel-saving device. E. Schaefer. No. 1,141,657; June 1; Gaz. vol. 215; p. 203.
- Fuel, Short-flame method of burning pulverized. J. G. Coutant. No. 1,149,734; Aug. 10; Gaz. vol. 217; p. 548.
- Fuel-supply apparatus. W. C. Carter. No. 1,146,133; July 13; Gaz. vol. 216; p. 425.

Alphabetical list of inventions—Continued.

- Fuel-supply apparatus. W. C. Carter. No. 1,146,134; July 13; Gaz. vol. 216; p. 425.
- Fuel-supplying means. T. A. Edison, Jr. No. 1,160,585; Nov. 16; Gaz. vol. 220; p. 850.
- Fuel-tank for motor-vehicles, Emergency. L. S. Hart and N. E. Lee. No. 1,126,995; Feb. 2; Gaz. vol. 211; p. 116.
- Fuel-tank pressure system. R. Huff. No. 1,126,012; Jan. 26; Gaz. vol. 210; p. 1104.
- Fuel-vaporizer. T. W. Dixon. No. 1,148,892; Aug. 3; Gaz. vol. 217; p. 144.
- Fulcrum, Brake-beam. W. E. Fowler, Jr. No. 1,146,860; July 20; Gaz. vol. 216; p. 698.
- Fulcrums, Producing brake-beam. F. J. Schroeder. No. 1,161,737; Nov. 23; Gaz. vol. 220; p. 1302.
- Fullers' earth, Treating. R. Claus. No. 1,156,466; Oct. 12; Gaz. vol. 219; p. 425.
- Fulling-machine. F. J. Mansfield. No. 1,158,257; Oct. 26; Gaz. vol. 219; p. 1142.
- Fumigating composition. F. Signoret. No. 1,159,109; Nov. 2; Gaz. vol. 220; p. 241.
- Fumigating device. L. Appleton. No. 1,164,624; Dec. 21; Gaz. vol. 221; p. 745.
- Fumigator. C. H. Freese. No. 1,162,690; Nov. 30; Gaz. vol. 220; p. 1675.
- Fumigator. F. M. Gilbert. No. 1,151,353; Aug. 24; Gaz. vol. 217; p. 1231.
- Fumigator. W. H. Griffiths. No. 1,162,911; Dec. 7; Gaz. vol. 221; p. 61.
- Fumigator and disinfecter. J. A. Buttress. No. 1,147,306; July 20; Gaz. vol. 216; p. 854.
- Funnel, Measuring. R. De la Rosa. No. 1,165,130; Dec. 21; Gaz. vol. 221; p. 925.
- Funnel-strainer. A. P. Warmlington. No. 1,150,910; Aug. 24; Gaz. vol. 217; p. 1081.
- Fur-beating machine. C. Eschwei. (Reissue.) No. 1,134,447; July 13; Gaz. vol. 216; p. 651.
- Fur-glaze and manufacturing same. J. A. Kosofsky. No. 1,150,208; Aug. 17; Gaz. vol. 217; p. 781.
- Furnace: *See*—
- Adjustable-combustion-chamber furnace.
 - Annealing-furnace.
 - Barbecue-furnace.
 - Boiler-furnace.
 - Calcining-furnace.
 - Casting-furnace.
 - Continuous-burning furnace.
 - Cremation-furnace.
 - Crucible-furnace.
 - Crucible and like furnace.
 - Culm-burning furnace.
 - Cupola-furnace.
 - Electric furnace.
 - Electrical furnace.
 - Galvanizing-furnace.
 - Garbage-burning furnace.
 - Gas-furnace.
 - Gas-floor furnace.
 - Gas-generating furnace.
 - Gas-producing furnace.
 - Glass-furnace.
 - Glass-drawing furnace.
 - Glass-making furnace.
 - Glass-melting tank-furnace.
 - Heat-generating furnace.
 - Heat-treating furnace.
 - Heating-furnace.
 - Hot-air furnace.
 - Hot-mill furnace.
 - Hydrocarbon-furnace.
 - Liquid and solid fuel furnace.
 - Liquid-fuel-fired furnace.
 - Locomotive-furnace.
 - Melting-furnace.
 - Metal-working furnace.
 - Metallurgical furnace.
 - Muffle-furnace.
 - Multiple-combustion furnace.
 - Oil-burning furnace.
 - Open-hearth furnace.
 - Ore-furnace.
 - Ore-roasting furnace.
 - Plumber's furnace.
 - Pot-furnace.
 - Recuperative furnace.
 - Reduction-furnace.
 - Retort-furnace.
 - Rivet-heating furnace.
 - Rotary furnace.
 - Shaft-furnace.
 - Smelting-furnace.
 - Smoke-consuming furnace.
 - Smokeless furnace.
 - Sulfate-furnace.
 - Underfeed furnace.
 - Vapor-burner furnace.
 - Water-heater furnace.
 - Zinc-producing furnace.
- Furnace. T. W. Atterbury and P. W. Matthews. No. 1,160,360; Nov. 16; Gaz. vol. 220; p. 770.
- Furnace. W. N. Best. No. 1,140,732; May 25; Gaz. vol. 214; p. 1165.
- Furnace. J. Brouwers. No. 1,145,970; July 13; Gaz. vol. 216; p. 367.
- Furnace. J. Cory. No. 1,124,110; Jan. 5; Gaz. vol. 210; p. 310.
- Furnace. W. J. Doyle and J. J. Wollenhaupt. No. 1,133,242; Mar. 23; Gaz. vol. 212; p. 1322.
- Furnace. W. M. Duncan. No. 1,145,573; July 6; Gaz. vol. 216; p. 208.
- Furnace. J. G. Engelhart. No. 1,135,169; Apr. 13; Gaz. vol. 213; p. 431.
- Furnace. E. Fitts. No. 1,158,998; Nov. 2; Gaz. vol. 220; p. 204.
- Furnace. M. L. Fox. No. 1,154,502; Sept. 21; Gaz. vol. 218; p. 822.
- Furnace. W. N. Furthmann. No. 1,135,678; Apr. 13; Gaz. vol. 213; p. 609.
- Furnace. G. Furuholmen. No. 1,132,573; Mar. 23; Gaz. vol. 212; p. 1079.
- Furnace. L. E. G. Hubert. No. 1,133,561; Mar. 30; Gaz. vol. 212; p. 1473.
- Furnace. H. Iserman. No. 1,125,543; Jan. 19; Gaz. vol. 210; p. 904.
- Furnace. D. S. Jacobus. No. 1,161,133; Nov. 23; Gaz. vol. 220; p. 1090.
- Furnace. D. S. Jacobus and N. E. Lewis. No. 1,161,134; Nov. 23; Gaz. vol. 220; p. 1090.
- Furnace. W. V. Jean. No. 1,146,626; July 13; Gaz. vol. 216; p. 599.
- Furnace. F. G. Johnson. No. 1,163,014; Dec. 7; Gaz. vol. 221; p. 98.
- Furnace. G. Le Mont. No. 1,161,779; Nov. 23; Gaz. vol. 220; p. 1317.
- Furnace. W. S. Lincoln and J. F. Whitt. No. 1,129,995; Mar. 2; Gaz. vol. 212; p. 55.
- Furnace. W. G. Lunger. No. 1,130,306; Mar. 2; Gaz. vol. 212; p. 161.
- Furnace. P. H. Ma Girl. No. 1,163,676; Dec. 14; Gaz. vol. 221; p. 373.
- Furnace. V. MacKay. No. 1,151,208; Aug. 24; Gaz. vol. 217; p. 1184.
- Furnace. M. A. Malloy. No. 1,152,332; Aug. 31; Gaz. vol. 217; p. 1615.
- Furnace. H. Misostow. No. 1,123,911; Jan. 5; Gaz. vol. 210; p. 243.
- Furnace. F. O. Moll. No. 1,132,373; Mar. 16; Gaz. vol. 212; p. 958.
- Furnace. M. J. Mooney. No. 1,136,828; Apr. 20; Gaz. vol. 213; p. 1056.
- Furnace. R. S. Moore. No. 1,139,558; May 18; Gaz. vol. 214; p. 719.
- Furnace. A. Mt. Joy. No. 1,151,705; Aug. 31; Gaz. vol. 217; p. 1398.
- Furnace. W. J. A. Muirhead. No. 1,154,717; Sept. 28; Gaz. vol. 218; p. 925.
- Furnace. O. P. Ostergren. No. 1,159,862; Nov. 9; Gaz. vol. 220; p. 544.
- Furnace. F. C. Parsons. No. 1,132,681; Mar. 23; Gaz. vol. 212; p. 1118.
- Furnace. E. Pemberton. No. 1,132,875; Mar. 23; Gaz. vol. 212; p. 1191.
- Furnace. F. J. Pioch. No. 1,150,451; Aug. 17; Gaz. vol. 217; p. 864.
- Furnace. J. Pomeroy. No. 1,137,420; Apr. 27; Gaz. vol. 213; p. 1307.
- Furnace. R. S. Riley. No. 1,152,222; Aug. 31; Gaz. vol. 217; p. 1578.
- Furnace. R. S. Riley. No. 1,156,628; Oct. 12; Gaz. vol. 219; p. 479.
- Furnace. P. A. Rochon and A. Laurendeau. No. 1,165,450; Dec. 28; Gaz. vol. 221; p. 1074.
- Furnace. W. B. Ruggles. No. 1,150,887; Aug. 24; Gaz. vol. 217; p. 1074.
- Furnace. J. H. Sample and E. D. Fout. No. 1,126,873; Feb. 2; Gaz. vol. 211; p. 74.
- Furnace. E. J. Sampson. No. 1,135,723; Apr. 13; Gaz. vol. 213; p. 625.
- Furnace. A. G. Sherman. No. 1,132,803; Mar. 23; Gaz. vol. 212; p. 1166.
- Furnace. H. E. Smythe. No. 1,165,725; Dec. 28; Gaz. vol. 221; p. 1171.
- Furnace. L. L. Summers. No. 1,127,824; Feb. 9; Gaz. vol. 211; p. 448.
- Furnace. G. G. Thorp. No. 1,144,511; June 29; Gaz. vol. 215; p. 1326.
- Furnace. J. S. Ungerm and A. E. Maccoun. No. 1,124,559; Jan. 12; Gaz. vol. 210; p. 519.
- Furnace. G. W. Wilson. No. 1,145,103; July 6; Gaz. vol. 216; p. 48.
- Furnace. P. Wingert. No. 1,160,232; Nov. 16; Gaz. vol. 220; p. 726.
- Furnace. F. H. Wolkenhauer. No. 1,160,233; Nov. 16; Gaz. vol. 220; p. 727.
- Furnace. C. J. Wuestner and A. G. Schumann. No. 1,160,806; Nov. 16; Gaz. vol. 220; p. 930.
- Furnace. F. J. Zippler. No. 1,147,475; July 20; Gaz. vol. 216; p. 916.
- Furnace air-moisteners, Automatic water control for. J. L. Skuttle. No. 1,150,709; Aug. 17; Gaz. vol. 217; p. 955.
- Furnace and allied structure. U. Wedge. No. 1,159,141; Nov. 2; Gaz. vol. 220; p. 252.
- Furnace and gas generator therefor, Combined. J. A. Charter. No. 1,128,584; Feb. 16; Gaz. vol. 211; p. 761.
- Furnace appliance. P. Brown. No. 1,133,612; Mar. 30; Gaz. vol. 212; p. 1492.
- Furnace arch, Locomotive. C. E. Miller. No. 1,138,044; May 4; Gaz. vol. 214; p. 112.
- Furnace arch, Locomotive. C. E. Miller. No. 1,138,053; May 4; Gaz. vol. 214; p. 116.
- Furnace arch, Locomotive. C. B. Moore. No. 1,138,041; May 4; Gaz. vol. 214; p. 111.
- Furnace arch, Locomotive. A. W. Nelson. No. 1,138,054; May 4; Gaz. vol. 214; p. 116.
- Furnace-arches, Repairing brick. P. J. O'Donnell. No. 1,132,028; Mar. 16; Gaz. vol. 212; p. 833.
- Furnace bell, Draft. J. M. Cosper. No. 1,164,929; Dec. 21; Gaz. vol. 221; p. 853.
- Furnace-bottling apparatus. J. T. Bates. No. 1,154,281; Sept. 21; Gaz. vol. 218; p. 747.
- Furnace-burner. G. L. Fogler. No. 1,163,650; Dec. 14; Gaz. vol. 221; p. 364.
- Furnace casing, Downdraft. K. Prinz zu Löwenstein. No. 1,140,908; May 25; Gaz. vol. 214; p. 1229.
- Furnace-charging apparatus. W. F. Clark. No. 1,153,605; Sept. 14; Gaz. vol. 218; p. 479.
- Furnace-charging door. H. N. Leask. No. 1,133,978; Mar. 30; Gaz. vol. 212; p. 1618.

Alphabetical list of inventions—Continued.

- Furnace-closure. W. S. Quigley. No. 1,126,080; Jan. 26; Gaz. vol. 210; p. 1131.
- Furnace construction, Blast-. L. L. Knox. No. 1,151,192; Aug. 24; Gaz. vol. 217; p. 1178.
- Furnace construction, Blast-. T. E. Thomas. No. 1,137,244; Apr. 27; Gaz. vol. 213; p. 1243.
- Furnace-door. G. O'Neill. No. 1,131,945; Mar. 16; Gaz. vol. 212; p. 801.
- Furnace-door. R. C. Sherman. No. 1,159,282; Nov. 2; Gaz. vol. 220; p. 303.
- Furnace-door frame. S. Naismith. No. 1,142,773; June 8; Gaz. vol. 215; p. 628.
- Furnace-door handle. G. Steele. No. 1,155,689; Oct. 5; Gaz. vol. 219; p. 127.
- Furnace-door lining. E. S. Cline and E. C. Meier. No. 1,159,898; Nov. 9; Gaz. vol. 220; p. 556.
- Furnace draft-regulator, Heating-. A. T. Oliver. No. 1,152,751; Sept. 7; Gaz. vol. 218; p. 136.
- Furnace-dust collector. U. Wedge. No. 1,165,351; Dec. 21; Gaz. vol. 221; p. 999.
- Furnace equipment, Marine-. A. B. Willoughby. No. 1,154,153; Sept. 21; Gaz. vol. 218; p. 702.
- Furnace extension, Oil-fired-. G. W. Coen. No. 1,129,791; Feb. 23; Gaz. vol. 211; p. 1216.
- Furnace feeding and stoking attachment. J. A. Lanigan and D. J. Carson. No. 1,130,411; Mar. 2; Gaz. vol. 212; p. 198.
- Furnace fire-grate. J. Carew. No. 1,147,605; July 20; Gaz. vol. 216; p. 961.
- Furnace fire-pot. J. D. Tipple. No. 1,133,200; Mar. 23; Gaz. vol. 212; p. 1309.
- Furnace for heating gases or the like. C. M. T. Olsson. No. 1,148,331; July 27; Gaz. vol. 216; p. 1245.
- Furnace for heating water and generating steam. C. Wolf. No. 1,164,151; Dec. 14; Gaz. vol. 221; p. 541.
- Furnace for the manufacture of glass articles. H. G. Slingsluff. No. 1,164,766; Dec. 21; Gaz. vol. 221; p. 796.
- Furnace for working up ores. H. Pape. No. 1,144,053; June 22; Gaz. vol. 215; p. 1138.
- Furnace-front. W. A. White. No. 1,130,124; Mar. 2; Gaz. vol. 212; p. 98.
- Furnace fuel-saving attachment. N. J. Russell. No. 1,150,456; Aug. 17; Gaz. vol. 217; p. 866.
- Furnace-grate. W. C. Armstrong. No. 1,124,252; Jan. 12; Gaz. vol. 210; p. 407.
- Furnace-grate. H. Benton. No. 1,139,097; May 11; Gaz. vol. 214; p. 523.
- Furnace-grate. W. M. Duncan. No. 1,132,918; Mar. 23; Gaz. vol. 212; p. 1206.
- Furnace-grate. H. B. Eells. No. 1,148,159; July 27; Gaz. vol. 216; p. 1184.
- Furnace-grate. T. M. Kekich. No. 1,131,524; Mar. 9; Gaz. vol. 212; p. 617.
- Furnace-grate. F. Lang. No. 1,163,420; Dec. 7; Gaz. vol. 221; p. 240.
- Furnace-grate. J. W. F. Macdonald. No. 1,130,308; Mar. 2; Gaz. vol. 212; p. 162.
- Furnace-grate. T. K. Nafus. No. 1,147,536; July 20; Gaz. vol. 216; p. 936.
- Furnace-grate. G. F. Pierce. No. 1,163,259; Dec. 7; Gaz. vol. 221; p. 184.
- Furnace-grate. C. B. Roberts. No. 1,138,977; May 11; Gaz. vol. 214; p. 479.
- Furnace-grate. C. B. Roberts. No. 1,138,978; May 11; Gaz. vol. 214; p. 480.
- Furnace-grate. J. Van Vleck. No. 1,163,288; Dec. 7; Gaz. vol. 221; p. 193.
- Furnace-grate construction. C. L. Davidson. No. 1,129,172; Feb. 23; Gaz. vol. 211; p. 1002.
- Furnace-grate-feeding device. G. H. Thacher, Jr. No. 1,134,167; Apr. 6; Gaz. vol. 213; p. 30.
- Furnace-grate, Mechanically-operated. W. R. Wood. No. 1,141,226; June 1; Gaz. vol. 215; p. 48.
- Furnace-grate, Non-shifting. W. McClave. No. 1,165,793; Dec. 28; Gaz. vol. 221; p. 1194.
- Furnace-hearth. J. H. Kleplinger. No. 1,140,042; May 18; Gaz. vol. 214; p. 891.
- Furnace hearth, Pair-heating-. T. V. Allis. (Reissue.) No. 14,032; Dec. 14; Gaz. vol. 221; p. 704.
- Furnace-hoist. D. Larson. No. 1,127,364; Feb. 2; Gaz. vol. 211; p. 243.
- Furnace-lining. R. Corle and G. C. Claar. No. 1,124,240; Jan. 5; Gaz. vol. 210; p. 357.
- Furnace-lining. A. P. Meyer. No. 1,160,085; Nov. 9; Gaz. vol. 220; p. 620.
- Furnace or forge. G. F. Beach. No. 1,140,350; May 25; Gaz. vol. 214; p. 1032.
- Furnace pipe or flue connection, Hot-air-. E. C. Chappelle. No. 1,158,786; Nov. 2; Gaz. vol. 220; p. 132.
- Furnace protection. L. L. Knox. No. 1,143,284; June 15; Gaz. vol. 215; p. 847.
- Furnace-regenerator. F. Orth. No. 1,165,340; Dec. 21; Gaz. vol. 221; p. 995.
- Furnace-regulating apparatus. R. L. Frink. No. 1,129,083; Feb. 23; Gaz. vol. 211; p. 971.
- Furnace-regulating device, Regenerative-. C. H. Macmillen. No. 1,166,069; Dec. 28; Gaz. vol. 221; p. 1288.
- Furnace-regulating system, Steam-. N. B. Johnson. No. 1,157,003; Oct. 19; Gaz. vol. 219; p. 640.
- Furnace-regulator. F. Orth. No. 1,131,262; Mar. 9; Gaz. vol. 212; p. 527.
- Furnace-regulator, Automatic. C. E. Anderson. No. 1,139,095; May 11; Gaz. vol. 214; p. 522.
- Furnace regulator, Electric-. R. H. White. No. 1,149,238; Aug. 10; Gaz. vol. 217; p. 369.
- Furnace-screen. H. H. Wiegand. No. 1,128,206; Feb. 9; Gaz. vol. 211; p. 580.
- Furnace slag, Apparatus for granulating liquid blast-. E. Wernzer. No. 1,128,829; Feb. 16; Gaz. vol. 211; p. 846.
- Furnace tubes or chambers, Manufacture of. R. P. Pictet. No. 1,130,533; Mar. 2; Gaz. vol. 212; p. 244.
- Furnace-wall. J. Hemmer. No. 1,123,874; Jan. 5; Gaz. vol. 210; p. 230.
- Furnaces, Air-feed for. E. Winans. No. 1,134,793; Apr. 6; Gaz. vol. 213; p. 259.
- Furnaces, Air-heater for. F. H. Zuch. No. 1,148,812; Aug. 3; Gaz. vol. 217; p. 118.
- Furnaces, Air-superheating device for. W. E. Shore. No. 1,157,964; Oct. 26; Gaz. vol. 219; p. 1041.
- Furnaces, Air-superheating device for. W. E. Shore. No. 1,157,965; Oct. 26; Gaz. vol. 219; p. 1041.
- Furnaces, Air-supplying attachment for. D. T. Williams. No. 1,164,437; Dec. 14; Gaz. vol. 221; p. 641.
- Furnaces and particularly coke-ovens, Closure for distillation-. H. J. Limberg. No. 1,143,411; June 15; Gaz. vol. 215; p. 893.
- Furnaces and the like, Means for saving fuel and promoting combustion in. W. B. Evans. No. 1,129,656; Feb. 23; Gaz. vol. 211; p. 1171.
- Furnaces, Apparatus for feeding lime to blast-. J. G. Morgan. No. 1,137,415; Apr. 27; Gaz. vol. 213; p. 1306.
- Furnaces, Ash-receptacle for. A. B. Meyer. No. 1,137,158; Apr. 27; Gaz. vol. 213; p. 1211.
- Furnaces, Blowing system for. H. Poetter. No. 1,141,652; June 1; Gaz. vol. 215; p. 201.
- Furnaces, Brick arch for boiler-. C. F. Street. No. 1,153,648; Sept. 14; Gaz. vol. 218; p. 492.
- Furnaces, Briquet for use in zinc-. G. S. Brooks. No. 1,137,835; May 4; Gaz. vol. 214; p. 40.
- Furnaces by air, Cooling electric. H. Magron. No. 1,131,609; Mar. 9; Gaz. vol. 212; p. 647.
- Furnaces, Charging and push-out apparatus for. W. M. Neckerman. No. 1,159,702; Nov. 9; Gaz. vol. 220; p. 485.
- Furnaces, Cover mechanism for pit-. W. Rachals. No. 1,127,278; Feb. 2; Gaz. vol. 211; p. 216.
- Furnaces, Draft-air-heating system for. R. D. McManigal. No. 1,146,188; July 13; Gaz. vol. 216; p. 445.
- Furnaces, Draft-controlling mechanism for smoke-consuming. E. R. Greene. No. 1,157,097; Oct. 19; Gaz. vol. 219; p. 674.
- Furnaces, Fire-bridge for boiler or the like. G. H. Butterworth and R. Canlin. No. 1,137,048; Apr. 27; Gaz. vol. 213; p. 1171.
- Furnaces, Fire-bridge of marine-boiler and other. F. J. Blake and R. J. Caldwell. No. 1,124,102; Jan. 5; Gaz. vol. 210; p. 307.
- Furnaces, Fire-pot for hot-air heating-. J. R. Willemijn. No. 1,154,901; Sept. 28; Gaz. vol. 218; p. 986.
- Furnaces, Forming and repairing the linings of. A. Schwarz. No. 1,125,741; Jan. 19; Gaz. vol. 210; p. 977.
- Furnaces, Fuel-feeding device for. C. J. Greenstreet. No. 1,132,715; Mar. 23; Gaz. vol. 212; p. 1131.
- Furnaces, Fuel-feeding mechanism for. C. I. Filson. No. 1,134,600; Apr. 6; Gaz. vol. 213; p. 188.
- Furnaces, Fuel-saving construction for. L. C. Zwerdling. No. 1,132,235; Mar. 16; Gaz. vol. 212; p. 909.
- Furnaces, Gas-producer for. W. O. Houston. No. 1,149,056; Aug. 3; Gaz. vol. 217; p. 202.
- Furnaces, Hollow blast-burner for. J. B. Leonard. No. 1,158,939; Nov. 2; Gaz. vol. 220; p. 185.
- Furnaces, Injector-burner for. A. Nelles. No. 1,153,639; Sept. 14; Gaz. vol. 218; p. 490.
- Furnaces, Liquid-fuel sprayer for. M. Prigga. No. 1,151,283; Aug. 24; Gaz. vol. 217; p. 1209.
- Furnaces, Magazine-feed for. H. Devlin. No. 1,163,978; Dec. 14; Gaz. vol. 221; p. 480.
- Furnaces, Making compounds in electric. S. Peacock. No. 1,129,513; Feb. 23; Gaz. vol. 211; p. 1122.
- Furnaces, Means for regulating the feed to refuse-destructor and other. H. N. Leask. No. 1,148,389; July 27; Gaz. vol. 216; p. 1266.
- Furnaces, Oven attachment for. J. H. Kennedy. No. 1,159,684; Nov. 9; Gaz. vol. 220; p. 478.
- Furnaces, Preheater for fluid-fuel. F. A. Jacobs. No. 1,128,146; Feb. 9; Gaz. vol. 211; p. 561.
- Furnaces, Preheating attachment for hardening-. H. L. Waisner. No. 1,164,894; Dec. 21; Gaz. vol. 221; p. 840.
- Furnaces, Preventing punctures in electric flame-arc. E. Troye. No. 1,148,343; July 27; Gaz. vol. 216; p. 1250.
- Furnaces, Rake-operating mechanism for ore-roasting. J. J. Simmonds. No. 1,133,068; Mar. 23; Gaz. vol. 212; p. 1262.
- Furnaces, Regenerator for heating. J. Cooper. No. 1,124,593; Jan. 12; Gaz. vol. 210; p. 531.
- Furnaces, Slag removing and indicating mechanism for open-hearth. W. A. Kosinski. No. 1,133,975; Mar. 30; Gaz. vol. 212; p. 1617.
- Furnaces, Smoke-consuming apparatus for boiler-. F. Gareau. No. 1,135,275; Apr. 13; Gaz. vol. 213; p. 466.

Alphabetical list of inventions—Continued.

- Furnaces, Smoke-eliminating and draft apparatus for. L. W. Pietsch. No. 1,124,513; Jan. 12; Gaz. vol. 210; p. 502.
- Furnaces, Smoke-prevention apparatus for. W. Williams. No. 1,148,421; July 27; Gaz. vol. 216; p. 1276.
- Furnaces, Stirrer for roasting. L. B. Skinner. No. 1,164,130; Dec. 14; Gaz. vol. 221; p. 534.
- Furnaces, Stoking mechanism for. W. McClave. No. 1,165,792; Dec. 21; Gaz. vol. 221; p. 1193.
- Furnaces, Thermostatic control of. J. H. Roberts. No. 1,154,207; Sept. 21; Gaz. vol. 218; p. 720.
- Furnaces, Time mechanism for. J. F. Williams. No. 1,141,739; June 1; Gaz. vol. 215; p. 231.
- Furnaces, Treating materials in electric. E. S. Berglund. No. 1,160,244; Nov. 16; Gaz. vol. 220; p. 730.
- Furnaces, Wall-pipe for. C. Johnson. No. 1,164,354; Dec. 14; Gaz. vol. 221; p. 612.
- Furnaces, Water-pan attachment for hot-air. A. Ohnemus. No. 1,127,085; Feb. 2; Gaz. vol. 211; p. 149.
- Furnaces with magnetically-extended electric arcs, Apparatus for improving the stability of. E. Troye. No. 1,156,192; Oct. 12; Gaz. vol. 219; p. 326.
- Furniture. A. J. Davis. No. 1,135,162; Apr. 13; Gaz. vol. 213; p. 429.
- Furniture. E. Ohnstrand. No. 1,153,946; Sept. 21; Gaz. vol. 218; p. 632.
- Furniture. E. Ohnstrand. No. 1,153,947; Sept. 21; Gaz. vol. 218; p. 632.
- Furniture. J. F. Walton. No. 1,165,471; Dec. 28; Gaz. vol. 221; p. 1080.
- Furniture. E. W. Vaill, Jr. No. 1,153,358; Sept. 14; Gaz. vol. 218; p. 390.
- Furniture-anchor. H. C. Sherer. No. 1,155,376; Oct. 5; Gaz. vol. 219; p. 18.
- Furniture, Article of. G. L. Harrison. No. 1,145,681; July 6; Gaz. vol. 216; p. 246.
- Furniture, Article of. S. F. Sawyer. No. 1,163,622; Dec. 7; Gaz. vol. 221; p. 311.
- Furniture, Adjustable piece of. S. P. Ringer. No. 1,130,632; Mar. 2; Gaz. vol. 212; p. 276.
- Furniture-bottom. J. E. Ralph. No. 1,123,592; Jan. 5; Gaz. vol. 210; p. 134.
- Furniture-brace. A. Wanner, Jr. No. 1,124,080; Jan. 5; Gaz. vol. 210; p. 299.
- Furniture-bumper. W. H. Heinis. No. 1,159,220; Nov. 2; Gaz. vol. 220; p. 282.
- Furniture, Combination. C. Petersen. No. 1,148,460; July 27; Gaz. vol. 216; p. 1288.
- Furniture, Combination. J. W. Woodard. No. 1,140,554; May 25; Gaz. vol. 214; p. 1106.
- Furniture construction. J. D. Barber. No. 1,142,006; June 8; Gaz. vol. 215; p. 360.
- Furniture construction. O. Rudd. No. 1,165,345; Dec. 21; Gaz. vol. 221; p. 997.
- Furniture, Construction of. T. Kasansky and S. Bernstein. No. 1,136,811; Apr. 20; Gaz. vol. 213; p. 1049.
- Furniture, Convertible. J. H. Hester, C. K. Beck, and P. F. Dost. No. 1,160,078; Nov. 9; Gaz. vol. 220; p. 618.
- Furniture, Convertible. J. Kramer and D. A. Brennan. No. 1,145,248; July 6; Gaz. vol. 216; p. 96.
- Furniture, Convertible. M. H. Stuewe. No. 1,138,997; May 11; Gaz. vol. 214; p. 487.
- Furniture, Convertible. W. H. Thommen. No. 1,144,397; June 29; Gaz. vol. 215; p. 1287.
- Furniture, Convertible. W. H. Thommen. No. 1,144,398; June 29; Gaz. vol. 215; p. 1287.
- Furniture-fastening device. K. Thulander. No. 1,158,748; Nov. 2; Gaz. vol. 220; p. 118.
- Furniture-leg fastener. J. Kohn. No. 1,143,836; June 22; Gaz. vol. 215; p. 1062.
- Furniture, Folding wall attachment for articles of. W. L. Deming. No. 1,142,404; June 8; Gaz. vol. 215; p. 502.
- Furniture-joint. J. A. R. Davis. No. 1,163,976; Dec. 14; Gaz. vol. 221; p. 479.
- Furniture, Metal. C. Olson. No. 1,148,330; July 27; Gaz. vol. 216; p. 1245.
- Furniture metal leg. G. L. Harrison. No. 1,159,839; Nov. 9; Gaz. vol. 220; p. 536.
- Furniture-pad. N. Stock. No. 1,152,235; Aug. 31; Gaz. vol. 217; p. 1582.
- Furniture-polish. S. Waters. No. 1,136,742; Apr. 20; Gaz. vol. 213; p. 1025.
- Furniture, Porch. J. E. Thompson. No. 1,157,458; Oct. 19; Gaz. vol. 219; p. 802.
- Furniture, Post-office. R. T. Bourn. No. 1,152,274; Aug. 31; Gaz. vol. 217; p. 1595.
- Furniture, Post-office. R. T. Bourn. No. 1,152,275; Aug. 31; Gaz. vol. 217; p. 1595.
- Furniture, Printer's. G. F. Seitz. No. 1,149,957; Aug. 10; Gaz. vol. 217; p. 630.
- Furniture, Shelf-section for metallic. A. T. Weiss. No. 1,135,233; Apr. 13; Gaz. vol. 213; p. 451.
- Furniture, Spacing-pilaster for sectional. E. Morris. No. 1,127,488; Feb. 9; Gaz. vol. 211; p. 330.
- Furniture-tread. V. and S. J. Von der Lin. No. 1,123,959; Jan. 5; Gaz. vol. 210; p. 258.
- Furniture-tread. V. and S. J. Von der Lin. No. 1,123,960; Jan. 5; Gaz. vol. 210; p. 258.
- Furniture-tread. V. and S. J. Von der Lin. No. 1,165,046; Dec. 21; Gaz. vol. 221; p. 893.
- Furniture with ironing-board attachment. Article of kitchen. F. Coss. No. 1,147,788; July 27; Gaz. vol. 216; p. 1050.
- Furrow opener and closer. W. L. Morford. No. 1,128,176; Feb. 9; Gaz. vol. 211; p. 571.
- Furrow-opener scraper. G. Cast. No. 1,129,848; Mar. 2; Gaz. vol. 212; p. 6.
- Furrow-opener scraper. H. D. Hunter. No. 1,129,869; Mar. 2; Gaz. vol. 212; p. 12.
- Furrower, Orchard-. L. W. Cushman. No. 1,130,963; Mar. 9; Gaz. vol. 212; p. 424.
- Furniture-support, Floor-engaging. C. N. Clark. No. 1,159,570; Nov. 9; Gaz. vol. 220; p. 437.
- Furring-strip. J. B. Webb. No. 1,153,836; Sept. 14; Gaz. vol. 218; p. 560.
- Furrow-opener attachment. O. F. Smith. No. 1,159,115; Nov. 2; Gaz. vol. 220; p. 243.
- Furrow-opener, Disk. T. Brennan, Jr. No. 1,149,992; Aug. 10; Gaz. vol. 217; p. 643.
- Furrow-opener drag-bars, Hanger for. H. H. Huntington. No. 1,147,324; July 20; Gaz. vol. 216; p. 860.
- Fuse. R. H. S. Bacon and J. H. Mansel. No. 1,145,051; July 6; Gaz. vol. 216; p. 28.
- Fuse. R. H. S. Bacon and J. H. Mansel. No. 1,161,147; Nov. 23; Gaz. vol. 220; p. 1095.
- Fuse. W. C. Banks. No. 1,124,194; Jan. 5; Gaz. vol. 210; p. 340.
- Fuse. W. C. Banks. No. 1,150,569; Aug. 17; Gaz. vol. 217; p. 908.
- Fuse. A. F. Daum. No. 1,150,344; Aug. 17; Gaz. vol. 217; p. 829.
- Fuse. E. G. Davis. No. 1,128,764; Feb. 16; Gaz. vol. 211; p. 821.
- Fuse-blocks or cut-outs, Lock device for. C. S. Walton. No. 1,164,148; Dec. 14; Gaz. vol. 221; p. 540.
- Fuse-cap package. P. Wheeler. No. 1,151,076; Aug. 24; Gaz. vol. 217; p. 1138.
- Fuse-carrier. J. J. Crouse. No. 1,160,386; Nov. 16; Gaz. vol. 220; p. 779.
- Fuse-cartridge. G. E. Fisher. No. 1,147,494; July 20; Gaz. vol. 216; p. 922.
- Fuse, Cartridge-. W. T. Garlitz and W. R. Gardner. No. 1,135,010; Apr. 13; Gaz. vol. 213; p. 376.
- Fuse-clip. H. N. Müller. No. 1,133,569; Mar. 30; Gaz. vol. 212; p. 1476.
- Fuse, Combined time and percussion. H. Prahl. No. 1,144,242; June 22; Gaz. vol. 215; p. 1206.
- Fuse device. E. O. Schweitzer. No. 1,147,448; July 20; Gaz. vol. 216; p. 906.
- Fuse device. E. O. Schweitzer and N. J. Conrad. No. 1,135,548; Apr. 13; Gaz. vol. 213; p. 561.
- Fuse device. E. O. Schweitzer and A. Herz. No. 1,144,732; June 29; Gaz. vol. 215; p. 1401.
- Fuse, Electric. C. W. Davis. No. 1,130,484; Mar. 2; Gaz. vol. 212; p. 226.
- Fuse, Electric. C. W. Davis. No. 1,130,485; Mar. 2; Gaz. vol. 212; p. 227.
- Fuse, Electric. C. W. Davis. No. 1,130,486; Mar. 2; Gaz. vol. 212; p. 227.
- Fuse, Electric. C. W. Davis. No. 1,130,487; Mar. 2; Gaz. vol. 212; p. 228.
- Fuse, Electric. C. W. Davis. No. 1,152,147; Aug. 31; Gaz. vol. 217; p. 1552.
- Fuse, Electric. C. W. Davis. No. 1,152,148; Aug. 31; Gaz. vol. 217; p. 1553.
- Fuse, Electric. C. W. Davis. No. 1,152,149; Aug. 31; Gaz. vol. 217; p. 1553.
- Fuse, Electric. L. W. Downes. No. 1,161,036; Nov. 23; Gaz. vol. 220; p. 1056.
- Fuse, Electric. T. E. Murray. No. 1,132,674; Mar. 23; Gaz. vol. 212; p. 1117.
- Fuse, Electric. T. E. Murray, Jr. No. 1,165,113; Dec. 21; Gaz. vol. 221; p. 918.
- Fuse, Electric safety-. R. C. Cole. No. 1,140,953; May 25; Gaz. vol. 214; p. 1245.
- Fuse, Electrical. H. W. Young. No. 1,165,563; Dec. 28; Gaz. vol. 221; p. 1112.
- Fuse for artillery-projectiles, Mechanical time-. A. Jungbans. No. 1,127,999; Feb. 9; Gaz. vol. 211; p. 508.
- Fuse for electric circuits, Safety-. H. C. Hershey. No. 1,123,133; Jan. 5; Gaz. vol. 210; p. 317.
- Fuse for explosive projectiles. E. Schneider. No. 1,151,906; Aug. 31; Gaz. vol. 217; p. 1470.
- Fuse for explosive projectiles. P. R. Stout and W. L. Lukens. No. 1,145,937; July 13; Gaz. vol. 216; p. 356.
- Fuse-igniting device. J. H. Reineke. No. 1,133,183; Mar. 23; Gaz. vol. 212; p. 1303.
- Fuse, Inclosed. W. J. Britt, Jr. No. 1,129,447; Feb. 23; Gaz. vol. 211; p. 1099.
- Fuse, Percussion-. E. Schneider. No. 1,152,917; Sept. 7; Gaz. vol. 218; p. 197.
- Fuse, Plug-. E. W. Wells. No. 1,125,612; Jan. 19; Gaz. vol. 210; p. 929.
- Fuse-plug, Electrical. N. W. Nutt. No. 1,158,145; Oct. 26; Gaz. vol. 219; p. 1104.
- Fuse plug, Multiple-. E. Straszky. No. 1,127,106; Feb. 2; Gaz. vol. 211; p. 156.
- Fuse, Reloadable cartridge. H. H. Oswald. No. 1,133,175; 23; Gaz. vol. 211; p. 1168.
- Fuse, Shell-. F. Faber. No. 1,154,579; Sept. 21; Gaz. vol. 218; p. 849.

Alphabetical list of inventions—Continued.

- Fuse with an adjustable retardation device, Percussion.- H. Prahl. No. 1,144,243; June 22; Gaz. vol. 215; p. 1206.
- Fusee. G. B. Jackson. No. 1,153,087; Sept. 7; Gaz. vol. 218; p. 256.
- Fusee. W. D. Jackson. No. 1,153,088; Sept. 7; Gaz. vol. 218; p. 256.
- Fusee and cap. J. Lamantia. No. 1,138,671; May 11; Gaz. vol. 214; p. 370.
- Fusee discharger, Train-. G. M. Still. No. 1,132,631; Mar. 23; Gaz. vol. 212; p. 1102.
- Fusee, Railway-. W. C. Beckwith. No. 1,154,165; Sept. 21; Gaz. vol. 218; p. 706.
- Fusee, Railway signal-. R. M. Clark. No. 1,129,644; Feb. Mar. 23; Gaz. vol. 212; p. 1300.
- Fusible device. A. J. Loepsinger. No. 1,147,031; July 20; Gaz. vol. 216; p. 760.
- Gablon for protective waterwork. G. Maccaferri. No. 1,165,194; Dec. 21; Gaz. vol. 221; p. 946.
- Gage. See—
- | | |
|-------------------------------------|--------------------------|
| Adjustable gage. | Parallel gage. |
| Altitude-gage. | Pressure-gage. |
| Angle-gage. | Pressure-relation gage. |
| Apple-gage. | Printer's miter-gage. |
| Boiler water-gage. | Printing-press gage. |
| Bread-cutting gage. | Rain-gage. |
| Butt and lock gage. | Raker-gage. |
| Caliper-gage. | Roller-gage. |
| Carpenter's gage. | Saw-gage. |
| Coin-gage. | Scratch-gage. |
| Draft-gage. | Shear-gage. |
| Drilling and blasting gage. | Shingle and slate gage. |
| Fluid-gage. | Shingling-gage. |
| Fluid - pressure - indicating gage. | Skirt-gage. |
| Grinding-gage. | Steam-gage. |
| Hair-cutting gage. | Surface-gage. |
| Hinge-gage. | Tank-gage. |
| Inspector's gage. | Tank sight-gage. |
| Kiln-gage. | Thread-gage. |
| Line-up register-gage. | Tire-gage. |
| Linear gage. | Tire-pressure gage. |
| Liquid-container gage. | Torpedo pressure-gage. |
| Loss-of-head gage. | Track-gage. |
| Marking-gage. | Vacuum-gage. |
| Measuring-gage. | Vacuum-indicating gage. |
| Micrometer-gage. | Valve and pressure gage. |
| Micrometer pump - valve gage. | Water-gage. |
| Moisture-gage. | Water-closet gage. |
| Oil-gage. | Wire-gage. |
| | Woodworker's gage. |
- Gage. J. Beckman. No. 1,148,430; July 27; Gaz. vol. 216; p. 1278.
- Gage. A. A. Faust. No. 1,155,715; Oct. 5; Gaz. vol. 219; p. 136.
- Gage. E. V. Frailey. No. 1,131,923; Mar. 16; Gaz. vol. 212; p. 794.
- Gage. P. M. Freer. No. 1,166,124; Dec. 28; Gaz. vol. 221; p. 1310.
- Gage. E. H. Heller. No. 1,159,764; Nov. 9; Gaz. vol. 220; p. 508.
- Gage. H. Hess. No. 1,157,389; Oct. 19; Gaz. vol. 219; p. 778.
- Gage. H. Hess. No. 1,159,025; Nov. 2; Gaz. vol. 220; p. 212.
- Gage. H. Hess. No. 1,163,921; Dec. 14; Gaz. vol. 221; p. 460.
- Gage. A. H. J. Miller. No. 1,129,707; Feb. 23; Gaz. vol. 211; p. 1187.
- Gage. C. S. Moritz. No. 1,149,591; Aug. 10; Gaz. vol. 217; p. 496.
- Gage. C. J. Tagliabue. No. 1,130,445; Mar. 2; Gaz. vol. 212; p. 211.
- Gage. L. B. Tillery. No. 1,134,297; Apr. 6; Gaz. vol. 213; p. 78.
- Gage. J. Wheeler. No. 1,151,141; Aug. 24; Gaz. vol. 217; p. 1160.
- Gage. H. G. Wilson. No. 1,129,937; Mar. 2; Gaz. vol. 212; p. 36.
- Gage and compass, Combined. E. B. Bennett and J. Armstrong. No. 1,155,542; Oct. 5; Gaz. vol. 219; p. 77.
- Gage device. J. F. Geary. No. 1,158,403; Oct. 26; Gaz. vol. 219; p. 1195.
- Gage-glass. W. J. and J. H. Hanlon. No. 1,136,468; Apr. 20; Gaz. vol. 213; p. 928.
- Gage-glass. W. J. and J. H. Hanlon. No. 1,139,518; May 18; Gaz. vol. 214; p. 705.
- Gage-glass. C. M. Mendenhall. No. 1,142,262; June 8; Gaz. vol. 215; p. 450.
- Gage-glass. J. G. Talmage. No. 1,142,540; June 8; Gaz. vol. 215; p. 548.
- Gage-glass guard. W. U. Dennison. No. 1,150,504; Aug. 17; Gaz. vol. 217; p. 884.
- Gage-glass, Safety. G. Ernst. No. 1,164,484; Dec. 14; Gaz. vol. 221; p. 657.
- Gage-glass shield. R. McIntosh. No. 1,157,708; Oct. 26; Gaz. vol. 219; p. 951.
- Gage-glass shield and reflector. F. P. Gardner. No. 1,131,692; Mar. 16; Gaz. vol. 212; p. 710.
- Gage glass, Water-. S. W. Taylor. No. 1,130,857; Mar. 9; Gaz. vol. 212; p. 388.
- Gage mechanism, Adjustable. W. M. Boenning. No. 1,125,261; Jan. 19; Gaz. vol. 210; p. 806.
- Gage-tester, Dead-weight. F. H. Hopkins. No. 1,154,018; Sept. 21; Gaz. vol. 218; p. 656.
- Gaging and sorting mechanism. F. H. Pierpont. No. 1,149,287; Aug. 10; Gaz. vol. 217; p. 388.
- Gaging apparatus. Hydropneumatic. C. Maul. No. 1,159,518; Nov. 9; Gaz. vol. 220; p. 418.
- Gaging-machine. J. F. Flaherty. No. 1,133,273; Mar. 30; Gaz. vol. 212; p. 1370.
- Gaiter. J. T. Crowley. No. 1,124,710; Jan. 12; Gaz. vol. 210; p. 573.
- Galvanic cell. M. L. Kaplan. No. 1,160,999; Nov. 16; Gaz. vol. 220; p. 998.
- Galvanic cell. M. L. Kaplan. No. 1,166,414; Dec. 28; Gaz. vol. 221; p. 1416.
- Galvanic cell. S. M. Ward, Jr. No. 1,145,950; July 13; Gaz. vol. 216; p. 360.
- Galvanic cells, Depolarizer for. P. Burger. No. 1,123,843; Jan. 5; Gaz. vol. 210; p. 220.
- Galvanizing. N. W. Buch. No. 1,141,931; June 8; Gaz. vol. 215; p. 333.
- Galvanizing. W. Gibson, Sr., and R. Skemp. No. 1,140,898; May 25; Gaz. vol. 214; p. 1225.
- Galvanizing apparatus. N. W. Buch. No. 1,141,930; June 8; Gaz. vol. 215; p. 333.
- Galvanizing apparatus. J. Monto. No. 1,124,785; Jan. 12; Gaz. vol. 210; p. 600.
- Galvanizing-bath. N. K. Turnbull. No. 1,132,889; Mar. 23; Gaz. vol. 212; p. 1195.
- Galvanizing-bath. N. K. Turnbull. No. 1,151,629; Aug. 31; Gaz. vol. 217; p. 1373.
- Galvanizing-furnace. C. Fell. No. 1,156,353; Oct. 12; Gaz. vol. 219; p. 381.
- Galvanizing-pot scraper. J. A. Hanlon. No. 1,136,522; Apr. 20; Gaz. vol. 213; p. 947.
- Galvanizing-pots, Transfer apparatus for. J. A. Hanlon. No. 1,136,523; Apr. 20; Gaz. vol. 213; p. 948.
- Gambrel. L. Borkhuis. No. 1,150,331; Aug. 17; Gaz. vol. 217; p. 824.
- Gambrel. C. Hoogewoning. No. 1,148,681; Aug. 3; Gaz. vol. 217; p. 72.
- Gambrel. P. F. Noonan. No. 1,159,528; Nov. 9; Gaz. vol. 220; p. 421.
- Gambrel, Adjustable hog-. J. McGrath. No. 1,148,393; July 27; Gaz. vol. 216; p. 1267.
- Game. N. H. Albrecht. No. 1,148,944; Aug. 3; Gaz. vol. 217; p. 163.
- Game. M. A. Audsley. No. 1,134,579; Apr. 6; Gaz. vol. 213; p. 181.
- Game. O. Carlson. No. 1,127,588; Feb. 9; Gaz. vol. 211; p. 363.
- Game. J. H. Corning. No. 1,136,106; Apr. 20; Gaz. vol. 213; p. 798.
- Game. O. W. Crampton. No. 1,144,529; June 29; Gaz. vol. 215; p. 1331.
- Game. H. L. Cusick. No. 1,139,497; May 18; Gaz. vol. 214; p. 698.
- Game. L. J. Desenberg. No. 1,164,791; Dec. 21; Gaz. vol. 221; p. 805.
- Game. W. F. Garaughty. No. 1,146,242; July 13; Gaz. vol. 216; p. 464.
- Game. H. M. Hatfield. No. 1,161,770; Nov. 23; Gaz. vol. 220; p. 1313.
- Game. M. L. Hawks. No. 1,150,517; Aug. 17; Gaz. vol. 217; p. 888.
- Game. L. Johnson, Jr., and O. D. Sawyer. No. 1,149,918; Aug. 10; Gaz. vol. 217; p. 616.
- Game. M. Maris. No. 1,138,233; May 4; Gaz. vol. 214; p. 178.
- Game. R. B. Messenger. No. 1,165,798; Dec. 28; Gaz. vol. 221; p. 1196.
- Game. B. Moad. No. 1,162,637; Nov. 30; Gaz. vol. 220; p. 1658.
- Game. B. F. Schrelber. No. 1,161,347; Nov. 23; Gaz. vol. 220; p. 1168.
- Game. J. R. Scott. No. 1,161,984; Nov. 30; Gaz. vol. 220; p. 1436.
- Game. J. F. Simpson. No. 1,156,438; Oct. 12; Gaz. vol. 219; p. 413.
- Game. G. B. Smith. No. 1,134,922; Apr. 6; Gaz. vol. 213; p. 299.
- Game. W. Stonestreet. No. 1,148,060; July 27; Gaz. vol. 216; p. 1148.
- Game. J. Welch. No. 1,155,851; Oct. 5; Gaz. vol. 219; p. 184.
- Game. D. H. Wiggins. No. 1,160,024; Nov. 9; Gaz. vol. 220; p. 599.
- Game. R. H. Wilmer. No. 1,149,801; Aug. 10; Gaz. vol. 217; p. 573.
- Game. W. Zolper. No. 1,127,345; Feb. 2; Gaz. vol. 211; p. 237.
- Game and game apparatus. M. Maris. No. 1,165,688; Dec. 28; Gaz. vol. 221; p. 1158.
- Game and shell bag, Combined. J. Danz, 2d. No. 1,141,941; June 8; Gaz. vol. 215; p. 337.
- Game and toy. A. O. Van Sickels. No. 1,161,552; Nov. 23; Gaz. vol. 220; p. 1240.
- Game apparatus. R. L. Anderson. No. 1,145,457; July 6; Gaz. vol. 216; p. 170.
- Game apparatus. H. D. Atkins. No. 1,148,737; Aug. 3; Gaz. vol. 217; p. 92.

Alphabetical list of inventions—Continued.

- Game apparatus. J. S. Betschart. No. 1,139,949; May 18; Gaz. vol. 214; p. 857.
- Game apparatus. L. Blum and J. Kruse. No. 1,150,657; Aug. 17; Gaz. vol. 217; p. 937.
- Game apparatus. F. Chevalier. No. 1,126,704; Feb. 2; Gaz. vol. 211; p. 13.
- Game apparatus. J. E. Church. No. 1,156,667; Oct. 12; Gaz. vol. 219; p. 494.
- Game apparatus. G. H. Clark. No. 1,131,210; Mar. 9; Gaz. vol. 212; p. 509.
- Game apparatus. W. H. Clausen. No. 1,161,846; Nov. 30; Gaz. vol. 220; p. 1387.
- Game apparatus. F. A. Cooke. No. 1,161,452; Nov. 23; Gaz. vol. 220; p. 1205.
- Game apparatus. H. S. Cowles. No. 1,164,993; Dec. 21; Gaz. vol. 221; p. 876.
- Game apparatus. M. M. Dawson. No. 1,147,218; July 20; Gaz. vol. 216; p. 826.
- Game apparatus. F. E. Dorr. No. 1,125,076; Jan. 19; Gaz. vol. 210; p. 738.
- Game apparatus. L. B. Ela. No. 1,147,931; July 27; Gaz. vol. 216; p. 1101.
- Game apparatus. A. F. Fields. No. 1,139,356; May 11; Gaz. vol. 214; p. 611.
- Game apparatus. J. J. Fitzgerald. No. 1,161,649; Nov. 23; Gaz. vol. 220; p. 1272.
- Game apparatus. B. Franklin. No. 1,146,060; July 13; Gaz. vol. 216; p. 400.
- Game apparatus. E. L. Freeland. No. 1,141,180; June 1; Gaz. vol. 215; p. 31.
- Game apparatus. R. M. Fullerton. No. 1,141,624; June 1; Gaz. vol. 215; p. 191.
- Game apparatus. J. E. Grenier. No. 1,132,577; Mar. 23; Gaz. vol. 212; p. 1081.
- Game apparatus. E. J. Groh. No. 1,147,087; July 20; Gaz. vol. 216; p. 779.
- Game apparatus. C. A. Hagerty. No. 1,138,865; May 11; Gaz. vol. 214; p. 441.
- Game apparatus. W. H. Hammett. No. 1,149,753; Aug. 10; Gaz. vol. 217; p. 557.
- Game apparatus. J. W. and P. M. Hammond. No. 1,152,313; Aug. 31; Gaz. vol. 217; p. 1608.
- Game apparatus. H. B. Hill. No. 1,156,006; Oct. 5; Gaz. vol. 219; p. 235.
- Game apparatus. W. H. Jamer. No. 1,146,798; July 20; Gaz. vol. 216; p. 678.
- Game apparatus. W. W. Johnson. No. 1,126,024; Jan. 26; Gaz. vol. 210; p. 1108.
- Game apparatus. V. A. Kemper. No. 1,137,980; May 4; Gaz. vol. 214; p. 90.
- Game apparatus. A. J. Kempien. No. 1,136,345; Apr. 20; Gaz. vol. 213; p. 883.
- Game apparatus. R. A. King. No. 1,132,189; Mar. 16; Gaz. vol. 212; p. 891.
- Game apparatus. F. H. Lehman. No. 1,153,395; Sept. 14; Gaz. vol. 218; p. 403.
- Game apparatus. W. N. Ley. No. 1,146,506; July 13; Gaz. vol. 216; p. 558.
- Game apparatus. G. A. M. Liljencrantz. No. 1,143,210; June 15; Gaz. vol. 215; p. 822.
- Game apparatus. D. D. Lowery. No. 1,153,802; Sept. 14; Gaz. vol. 218; p. 546.
- Game apparatus. G. E. Mager. No. 1,162,629; Nov. 30; Gaz. vol. 220; p. 1656.
- Game apparatus. H. E. Mahoney. No. 1,145,781; July 6; Gaz. vol. 216; p. 282.
- Game apparatus. J. M. and G. C. Malmsjo. No. 1,159,854; Nov. 9; Gaz. vol. 220; p. 541.
- Game apparatus. J. Mason and W. J. Beattie. No. 1,163,432; Dec. 7; Gaz. vol. 221; p. 244.
- Game apparatus. E. W. McCarroll. No. 1,158,250; Oct. 26; Gaz. vol. 219; p. 1140.
- Game apparatus. M. J. McIntyre. No. 1,128,887; Feb. 16; Gaz. vol. 211; p. 866.
- Game apparatus. C. H. Mohr. No. 1,125,867; Jan. 19; Gaz. vol. 210; p. 1019.
- Game apparatus. C. Morgan. No. 1,163,102; Dec. 7; Gaz. vol. 221; p. 128.
- Game apparatus. E. P. Mounts. No. 1,128,489; Feb. 16; Gaz. vol. 211; p. 728.
- Game apparatus. K. Okamoto. No. 1,144,051; June 22; Gaz. vol. 215; p. 1138.
- Game apparatus. H. C. Osborn. No. 1,136,708; Apr. 20; Gaz. vol. 213; p. 1013.
- Game apparatus. A. Perry. No. 1,146,733; July 13; Gaz. vol. 216; p. 634.
- Game apparatus. E. R. Ramsey. No. 1,127,279; Feb. 2; Gaz. vol. 211; p. 216.
- Game apparatus. H. E. Ridgedale. No. 1,131,735; Mar. 16; Gaz. vol. 212; p. 725.
- Game apparatus. R. B. Smith. No. 1,166,271; Dec. 28; Gaz. vol. 221; p. 1366.
- Game apparatus. R. E. Smither. No. 1,128,194; Feb. 9; Gaz. vol. 211; p. 577.
- Game apparatus. H. W. Speyer. No. 1,154,346; Sept. 21; Gaz. vol. 218; p. 770.
- Game apparatus. I. F. Still. No. 1,132,403; Mar. 16; Gaz. vol. 212; p. 969.
- Game apparatus. W. Szilanyi. No. 1,145,716; July 6; Gaz. vol. 216; p. 260.
- Game apparatus. C. E. Tejera. No. 1,152,360; Aug. 31; Gaz. vol. 217; p. 1627.
- Game apparatus. J. E. Tilden. No. 1,141,505; June 1; Gaz. vol. 215; p. 149.
- Game apparatus. H. C. Twibell. No. 1,157,913; Oct. 26; Gaz. vol. 219; p. 1023.
- Game apparatus. U. C. Upjohn. No. 1,144,743; June 29; Gaz. vol. 215; p. 1406.
- Game apparatus. J. L. Webb and S. F. Sturdevant. No. 1,157,828; Oct. 26; Gaz. vol. 219; p. 992.
- Game apparatus. E. R. Whittier. No. 1,166,164; Dec. 28; Gaz. vol. 221; p. 1326.
- Game apparatus. H. L. Wittstein. No. 1,145,955; July 13; Gaz. vol. 216; p. 362.
- Game apparatus. W. Zepp. No. 1,158,413; Oct. 26; Gaz. vol. 219; p. 1199.
- Game apparatus, Base-ball. J. J. Kelly. No. 1,128,457; Feb. 16; Gaz. vol. 211; p. 717.
- Game apparatus, Base-ball. P. T. Simmons. No. 1,153,719; Sept. 14; Gaz. vol. 218; p. 519.
- Game apparatus, Base-ball. O. J. Streetz. No. 1,135,333; Apr. 13; Gaz. vol. 213; p. 486.
- Game apparatus, Base-ball. J. A. and A. L. Williamson. No. 1,164,044; Dec. 14; Gaz. vol. 221; p. 504.
- Game apparatus for playing a table. W. Glass. No. 1,126,980; Feb. 2; Gaz. vol. 211; p. 111.
- Game apparatus, Race. H. Cooley. No. 1,125,818; Jan. 19; Gaz. vol. 210; p. 1004.
- Game appliance. C. B. Denny. No. 1,144,112; June 22; Gaz. vol. 215; p. 1160.
- Game-ball with composition coating. J. W. and C. E. Hyatt. No. 1,156,144; Oct. 12; Gaz. vol. 219; p. 311.
- Game, Base-ball. R. R. Gerrard, Jr. No. 1,133,125; Mar. 23; Gaz. vol. 212; p. 1282.
- Game-board. H. M. Altick. No. 1,147,776; July 27; Gaz. vol. 216; p. 1046.
- Game-board. G. W. Cooper. No. 1,127,594; Feb. 9; Gaz. vol. 211; p. 365.
- Game-board. L. P. D'Autremont. No. 1,141,909; June 1; Gaz. vol. 215; p. 289.
- Game-board. W. J. Ennisson. No. 1,155,714; Oct. 5; Gaz. vol. 219; p. 136.
- Game-board. C. H. Johnson. No. 1,147,173; July 20; Gaz. vol. 216; p. 809.
- Game-board. A. D. Maxwell. No. 1,145,783; July 6; Gaz. vol. 216; p. 282.
- Game-board. L. H. Nelson. No. 1,136,552; Apr. 20; Gaz. vol. 213; p. 957.
- Game-board. W. F. Schnellhardt. No. 1,158,308; Oct. 26; Gaz. vol. 219; p. 1162.
- Game-board. J. L. Snider. No. 1,134,646; Apr. 6; Gaz. vol. 213; p. 206.
- Game-board. F. Wagner. No. 1,135,229; Apr. 13; Gaz. vol. 213; p. 450.
- Game-board. W. Wunsch. No. 1,144,927; June 29; Gaz. vol. 215; p. 1467.
- Game board or bulletin. P. C. Oscanyan. No. 1,127,498; Feb. 9; Gaz. vol. 211; p. 334.
- Game, Bowling. R. F. Downey. No. 1,160,151; Nov. 16; Gaz. vol. 220; p. 698.
- Game, Bowling. W. J. Powell. No. 1,133,576; Mar. 30; Gaz. vol. 212; p. 1479.
- Game, Card. J. W. Culp. No. 1,145,230; July 6; Gaz. vol. 216; p. 90.
- Game, Card. H. H. McNair. No. 1,138,678; May 11; Gaz. vol. 214; p. 373.
- Game, Card. G. S. Parker. No. 1,129,423; Feb. 23; Gaz. vol. 211; p. 1091.
- Game-counter. W. E. Davis. No. 1,151,668; Aug. 31; Gaz. vol. 217; p. 1386.
- Game device. H. J. Bourne. No. 1,150,014; Aug. 17; Gaz. vol. 217; p. 712.
- Game device. A. B. Lefler. No. 1,165,984; Dec. 28; Gaz. vol. 221; p. 1260.
- Game device. W. C. and C. R. Martineau. No. 1,136,153; Apr. 20; Gaz. vol. 213; p. 815.
- Game device. S. G. Osborne. No. 1,161,326; Nov. 23; Gaz. vol. 220; p. 1160.
- Game device, Ball. H. Behrend. No. 1,156,047; Oct. 12; Gaz. vol. 219; p. 277.
- Game, Marble. C. Klumpp. No. 1,163,416; Dec. 7; Gaz. vol. 221; p. 238.
- Game of golf or like ball games, Optical instrument for use in playing the. C. T. Ramsay. No. 1,135,921; Apr. 13; Gaz. vol. 213; p. 692.
- Game or toy. J. J. and J. K. Sonsikowski. No. 1,136,625; Apr. 20; Gaz. vol. 213; p. 933.
- Game, Parlor base-ball. J. Straub. No. 1,129,613; Feb. 23; Gaz. vol. 211; p. 1158.
- Game, Picture-building. L. Lemassena. No. 1,143,636; June 22; Gaz. vol. 215; p. 994.
- Game-piece. W. Wunsch. No. 1,144,926; June 29; Gaz. vol. 215; p. 1467.
- Game, Playing-card. W. C. Sanford. No. 1,159,105; Nov. 2; Gaz. vol. 220; p. 240.
- Game, Red, white, and blue. C. J. Falk. No. 1,160,586; Nov. 16; Gaz. vol. 220; p. 851.
- Game-table. H. T. Chisholm. No. 1,142,305; June 8; Gaz. vol. 215; p. 464.
- Game-table. L. Meluzzi. No. 1,154,529; Sept. 21; Gaz. vol. 218; p. 831.
- Game, War. C. L. Watkins. No. 1,160,348; Nov. 16; Gaz. vol. 220; p. 766.

Alphabetical list of inventions—Continued.

- Game, War-maneuvering. C. H. Barker. No. 1,147,478; July 20; Gaz. vol. 216; p. 917.
- Games, Apparatus for playing hopping. F. Quade. No. 1,155,273; Sept. 28; Gaz. vol. 218; p. 1112.
- Games, Apparatus for reproducing base-ball. A. A. Heyman. No. 1,126,636; Jan. 26; Gaz. vol. 210; p. 1332.
- Gang-drill. A. Hill. No. 1,133,243; Mar. 23; Gaz. vol. 212; p. 1323.
- Gang-hook-setting machine. A. Raiche. No. 1,146,952; July 20; Gaz. vol. 216; p. 732.
- Gang-plank. W. D. McCormick. No. 1,137,645; Apr. 27; Gaz. vol. 213; p. 1382.
- Gang-plank. P. B. Park. No. 1,151,816; Aug. 31; Gaz. vol. 217; p. 1438.
- Gangway. W. Green. No. 1,144,836; June 29; Gaz. vol. 215; p. 1437.
- Gangway. C. A. Norman. No. 1,137,276; Apr. 27; Gaz. vol. 213; p. 1254.
- Gangway-gate, Folding. C. H. Klotz. No. 1,150,684; Aug. 17; Gaz. vol. 217; p. 947.
- Garbage and other materials, Apparatus for compressing. L. F. Wilmerding. No. 1,160,352; Nov. 16; Gaz. vol. 220; p. 768.
- Garbage and other receptacle stand. C. F. Schell. No. 1,137,355; Apr. 27; Gaz. vol. 213; p. 1284.
- Garbage and trash incinerator. W. A. Kress. No. 1,165,607; Dec. 28; Gaz. vol. 221; p. 1128.
- Garbage-burner. W. J. Keep. No. 1,138,662; May 11; Gaz. vol. 214; p. 366.
- Garbage-burning furnace. L. E. Sparks. No. 1,132,494; Mar. 16; Gaz. vol. 212; p. 1003.
- Garbage-can. A. Baumann and A. Sommerfeld. No. 1,158,958; Nov. 2; Gaz. vol. 220; p. 192.
- Garbage-can. J. H. Brown. No. 1,163,389; Dec. 7; Gaz. vol. 221; p. 229.
- Garbage-can. M. Brownstein. No. 1,163,886; Dec. 14; Gaz. vol. 221; p. 448.
- Garbage-can. E. Franckaerts. No. 1,130,503; Mar. 2; Gaz. vol. 212; p. 233.
- Garbage-can. J. A. Jones. No. 1,135,810; Apr. 13; Gaz. vol. 213; p. 654.
- Garbage-can. T. A. Keen. No. 1,146,714; July 13; Gaz. vol. 216; p. 628.
- Garbage-can. H. J. Lucas. No. 1,131,847; Mar. 16; Gaz. vol. 212; p. 768.
- Garbage-can. L. Spremulli and A. Manuppelli. No. 1,141,846; June 1; Gaz. vol. 215; p. 264.
- Garbage-can, Sanitary. P. Clement. No. 1,143,597; June 15; Gaz. vol. 215; p. 956.
- Garbage-cans, Sanitary cover for. W. J. Egan. No. 1,145,187; July 6; Gaz. vol. 216; p. 74.
- Garbage-container. F. Aldrich. No. 1,131,102; Mar. 9; Gaz. vol. 212; p. 472.
- Garbage-destructor. P. W. Foster. No. 1,159,371; Nov. 9; Gaz. vol. 220; p. 366.
- Garbage-incinerating process and apparatus. W. M. Carr. No. 1,134,512; Apr. 6; Gaz. vol. 213; p. 157.
- Garbage-incinerator. B. R. Burg. No. 1,160,256; Nov. 16; Gaz. vol. 220; p. 734.
- Garbage-incinerator. R. W. Krenz. No. 1,155,492; Oct. 5; Gaz. vol. 219; p. 59.
- Garbage-incinerator. G. A. Oveson. No. 1,132,790; Mar. 23; Gaz. vol. 212; p. 1160.
- Garbage-press. W. Conway. No. 1,130,149; Mar. 2; Gaz. vol. 212; p. 106.
- Garbage-receiver, Sanitary. A. E. Lang. No. 1,157,008; Oct. 19; Gaz. vol. 219; p. 642.
- Garbage-receptacle. A. J. Drapalik. No. 1,164,583; Dec. 14; Gaz. vol. 221; p. 690.
- Garbage-receptacle. H. H. Jones. No. 1,126,640; Jan. 26; Gaz. vol. 210; p. 1334.
- Garbage-receptacle. H. H. Jones. No. 1,136,235; Apr. 20; Gaz. vol. 213; p. 844.
- Garbage-receptacle. G. C. Pansegrau. No. 1,141,260; June 1; Gaz. vol. 215; p. 60.
- Garbage-receptacle. R. Pribis. No. 1,130,535; Mar. 2; Gaz. vol. 212; p. 244.
- Garbage-receptacle and stand therefor. W. T. Hoofnagle. No. 1,133,438; Mar. 30; Gaz. vol. 212; p. 1429.
- Garbage-receptacle, Odorless. E. O. Messmore. No. 1,156,304; Oct. 12; Gaz. vol. 219; p. 363.
- Garbage-receptacle, Sanitary. C. H. and M. Brown. No. 1,158,783; Nov. 2; Gaz. vol. 220; p. 131.
- Garbage-reservoir. E. Netter. No. 1,139,436; May 11; Gaz. vol. 214; p. 641.
- Garbage, sludge, and like substances, Disposition of. R. W. Amos. No. 1,165,368; Dec. 21; Gaz. vol. 221; p. 1006.
- Garbage, Treating. T. C. Pardington and J. G. Ashby. No. 1,145,845; July 6; Gaz. vol. 216; p. 305.
- Garden implement. J. A. Bozarth. No. 1,138,274; May 4; Gaz. vol. 214; p. 193.
- Garden implement. J. Sinnott. No. 1,156,937; Oct. 19; Gaz. vol. 219; p. 616.
- Garden-rake. A. B. Shaw. No. 1,146,287; July 13; Gaz. vol. 216; p. 479.
- Garden-tool. J. W. Bigford. No. 1,154,839; Sept. 28; Gaz. vol. 218; p. 966.
- Garden-tool. C. B. Krogstad. No. 1,147,027; July 20; Gaz. vol. 216; p. 759.
- Garden-tool. A. W. Upton. No. 1,158,335; Oct. 26; Gaz. vol. 219; p. 1170.
- Gardener's implement and weed-clipper. C. M. Keeler. No. 1,127,015; Feb. 2; Gaz. vol. 211; p. 124.
- Garment. R. Abrams. No. 1,150,006; Aug. 17; Gaz. vol. 217; p. 709.
- Garment. N. M. Barlet. No. 1,144,631; June 29; Gaz. vol. 215; p. 1366.
- Garment. B. Bernard. No. 1,123,224; Jan. 5; Gaz. vol. 210; p. 7.
- Garment. J. H. Brown. No. 1,138,623; May 11; Gaz. vol. 214; p. 353.
- Garment. F. O. Bryan. No. 1,145,467; July 6; Gaz. vol. 216; p. 173.
- Garment. W. M. Buckley. No. 1,131,674; Mar. 16; Gaz. vol. 212; p. 705.
- Garment. W. P. Butusov. No. 1,154,842; Sept. 28; Gaz. vol. 218; p. 966.
- Garment. R. W. Davis. No. 1,125,667; Jan. 19; Gaz. vol. 210; p. 950.
- Garment. S. N. Ettinger. No. 1,159,369; Nov. 9; Gaz. vol. 220; p. 366.
- Garment. W. M. Finck. No. 1,132,768; Mar. 23; Gaz. vol. 212; p. 1151.
- Garment. V. Guinzburg. No. 1,164,642; Dec. 21; Gaz. vol. 221; p. 752.
- Garment. W. R. Hanes. No. 1,153,909; Sept. 21; Gaz. vol. 218; p. 619.
- Garment. E. C. Heyn. (Reissue.) No. 13,983; Sept. 21; Gaz. vol. 218; p. 856.
- Garment. R. E. Lowe. No. 1,136,822; Apr. 20; Gaz. vol. 213; p. 1054.
- Garment. A. Malsin. No. 1,139,881; May 18; Gaz. vol. 214; p. 833.
- Garment. A. Malsin. No. 1,144,148; June 22; Gaz. vol. 215; p. 1172.
- Garment. C. W. McClure. No. 1,131,532; Mar. 9; Gaz. vol. 212; p. 620.
- Garment. F. L. McMullen. No. 1,135,459; Apr. 13; Gaz. vol. 213; p. 530.
- Garment. J. B. Moore. No. 1,161,717; Nov. 23; Gaz. vol. 220; p. 1296.
- Garment. J. Parsons. No. 1,134,901; Apr. 6; Gaz. vol. 213; p. 292.
- Garment. W. C. Powell. No. 1,151,610; Aug. 31; Gaz. vol. 217; p. 1367.
- Garment. E. I. Rains. No. 1,146,735; July 13; Gaz. vol. 216; p. 635.
- Garment. S. C. Salzenstein. No. 1,153,523; Sept. 14; Gaz. vol. 218; p. 430.
- Garment. I. Schwartz. No. 1,158,312; Oct. 26; Gaz. vol. 219; p. 1163.
- Garment. C. M. Walker. No. 1,159,439; Nov. 9; Gaz. vol. 220; p. 391.
- Garment and hat hanger. C. D. Morris. No. 1,142,451; June 8; Gaz. vol. 215; p. 518.
- Garment, Body-. J. Stone. No. 1,141,284; June 1; Gaz. vol. 215; p. 69.
- Garment, Child's. E. S. Cannon. No. 1,125,467; Jan. 19; Gaz. vol. 210; p. 878.
- Garment, Child's. J. L. Lubell. No. 1,154,523; Sept. 21; Gaz. vol. 218; p. 829.
- Garment-clasp. F. P. Barney. No. 1,151,556; Aug. 31; Gaz. vol. 217; p. 1347.
- Garment-clasp. W. Kops. No. 1,155,072; Sept. 28; Gaz. vol. 218; p. 1046.
- Garment-closure. O. Weingarten. No. 1,137,437; Apr. 27; Gaz. vol. 213; p. 1313.
- Garment-closure, Adjustable. F. Hirsh. No. 1,141,115; June 1; Gaz. vol. 215; p. 9.
- Garment, Combination-. L. J. Matty. No. 1,147,962; July 27; Gaz. vol. 216; p. 1112.
- Garment, Combination-. J. Michaelis. No. 1,138,681; May 11; Gaz. vol. 214; p. 374.
- Garment, Combination-. O. M. Potterf. No. 1,144,240; June 22; Gaz. vol. 215; p. 1205.
- Garment, Combination-. E. J. Quigley. No. 1,128,360; Feb. 16; Gaz. vol. 211; p. 684.
- Garment, Combination-. E. J. Quigley. No. 1,139,800; May 18; Gaz. vol. 214; p. 805.
- Garment, Combination-. E. J. Quigley. No. 1,141,486; June 1; Gaz. vol. 215; p. 143.
- Garment, Combination-. E. J. Quigley. No. 1,143,228; June 15; Gaz. vol. 215; p. 829.
- Garment, Convertible. A. B. Wells and M. Blickhan. No. 1,128,925; Feb. 16; Gaz. vol. 211; p. 880.
- Garment-fastener. M. M. Parsnow. No. 1,133,397; Mar. 30; Gaz. vol. 212; p. 1414.
- Garment-fastener. C. E. Woolf. No. 1,126,610; Jan. 26; Gaz. vol. 210; p. 1323.
- Garment-fastening device. J. Lieberman, A. Friedman, and B. Rose. No. 1,137,499; Apr. 27; Gaz. vol. 213; p. 1333.
- Garment-fitter. I. Cohen. No. 1,157,085; Oct. 19; Gaz. vol. 219; p. 670.
- Garment-fitting device. E. Bell. No. 1,124,836; Jan. 12; Gaz. vol. 210; p. 619.
- Garment for men, Summer. O. Meltsner. No. 1,126,817; Feb. 2; Gaz. vol. 211; p. 54.
- Garment-hanger. W. E. Bailey. No. 1,126,342; Jan. 26; Gaz. vol. 210; p. 1225.
- Garment-hanger. H. I. Davis. No. 1,165,575; Dec. 28; Gaz. vol. 221; p. 1116.

- Garment-hanger. W. F. Freeman. No. 1,160,060; Nov. 9; Gaz. vol. 220; p. 611.
- Garment-hanger. E. G. Kohout. No. 1,132,190; Mar. 16; Gaz. vol. 212; p. 891.
- Garment-hanger. F. L. Reed. No. 1,130,540; Mar. 2; Gaz. vol. 212; p. 246.
- Garment-hanger. J. Rosner. No. 1,124,811; Jan. 12; Gaz. vol. 210; p. 610.
- Garment-hanger, Foldable. L. Kalina. No. 1,162,613; Nov. 30; Gaz. vol. 220; p. 1651.
- Garment-hanger support. F. Videgaray. No. 1,159,342; Nov. 2; Gaz. vol. 220; p. 324.
- Garment-hook. H. E. Fanshawe. No. 1,158,193; Oct. 26; Gaz. vol. 219; p. 1121.
- Garment, Lady's. L. Fatherson and T. I. Hogan. No. 1,125,908; Jan. 19; Gaz. vol. 210; p. 1032.
- Garment-loop. A. K. Cross. No. 1,147,213; July 20; Gaz. vol. 216; p. 824.
- Garment-pressing machine. E. F. French. No. 1,150,355; Aug. 17; Gaz. vol. 217; p. 833.
- Garment-pressing machine. T. D. Palmer. No. 1,141,902; June 1; Gaz. vol. 215; p. 286.
- Garment-pressing table. E. F. French. No. 1,144,300; June 22; Gaz. vol. 215; p. 1226.
- Garment-protector. L. Comingore. No. 1,141,690; June 1; Gaz. vol. 215; p. 215.
- Garment-rack, Safety. F. Pastor. No. 1,148,614; Aug. 3; Gaz. vol. 217; p. 47.
- Garment-rack, Safety. J. Wachowicz. No. 1,130,044; Mar. 2; Gaz. vol. 212; p. 71.
- Garment-receptacle. H. F. Burwell. No. 1,123,679; Jan. 5; Gaz. vol. 210; p. 165.
- Garment-receptacle. I. H. Lyons. No. 1,127,049; Feb. 2; Gaz. vol. 211; p. 136.
- Garment-shaper. M. J. Hoffman. No. 1,142,431; June 8; Gaz. vol. 215; p. 511.
- Garment-shield. E. C. Kuebler. No. 1,136,242; Apr. 20; Gaz. vol. 213; p. 847.
- Garment, Sleeping-. E. P. King. No. 1,143,282; June 15; Gaz. vol. 215; p. 846.
- Garment-stretcher. F. B. Beckwith. No. 1,146,991; July 20; Gaz. vol. 216; p. 746.
- Garment-stretcher. J. A. Jordan. No. 1,150,205; Aug. 17; Gaz. vol. 217; p. 780.
- Garment-stretcher. L. N. Salisbury. No. 1,137,426; Apr. 27; Gaz. vol. 213; p. 1310.
- Garment-stretching device. T. J. Aldridge. No. 1,153,150; Sept. 7; Gaz. vol. 218; p. 276.
- Garment-support. E. C. Guerrant. No. 1,129,388; Feb. 23; Gaz. vol. 211; p. 1078.
- Garment-support. K. L. Seaman. No. 1,130,343; Mar. 2; Gaz. vol. 212; p. 174.
- Garment-supporter. J. H. Bancroft. No. 1,141,754; June 1; Gaz. vol. 215; p. 235.
- Garment-supporter. L. E. Berebaum. No. 1,152,929; Sept. 7; Gaz. vol. 218; p. 202.
- Garment-supporter. J. W. Brown. No. 1,146,126; July 13; Gaz. vol. 216; p. 423.
- Garment-supporter. H. H. Burroughs. No. 1,133,095; Mar. 23; Gaz. vol. 212; p. 1271.
- Garment-supporter. D. G. Butts. No. 1,150,993; Aug. 24; Gaz. vol. 217; p. 1110.
- Garment-supporter. D. G. Butts. No. 1,156,835; Oct. 12; Gaz. vol. 219; p. 551.
- Garment-supporter. W. L. Deming. No. 1,152,492; Sept. 7; Gaz. vol. 218; p. 40.
- Garment-supporter. W. A. Holden. No. 1,130,821; Mar. 9; Gaz. vol. 212; p. 375.
- Garment-supporter. B. F. Orewiler. No. 1,152,753; Sept. 7; Gaz. vol. 218; p. 136.
- Garment-supporter. E. M. Smedberg. No. 1,156,187; Oct. 12; Gaz. vol. 219; p. 325.
- Garment-supporter. H. J. Stuart. No. 1,145,939; July 13; Gaz. vol. 216; p. 356.
- Garment-supporter attachment. E. N. Humphrey. No. 1,149,769; Aug. 10; Gaz. vol. 217; p. 562.
- Garment-supporter loop. A. D. Elliott. No. 1,127,604; Feb. 9; Gaz. vol. 211; p. 368.
- Garment-supporter loop. C. P. Kuehn. No. 1,162,081; Nov. 30; Gaz. vol. 220; p. 1470.
- Garment-supporter, Waist-line. A. A. Roberts. No. 1,152,121; Aug. 31; Gaz. vol. 217; p. 1544.
- Garment-supporters, Attachment for. E. N. Humphrey. No. 1,144,963; June 29; Gaz. vol. 215; p. 1479.
- Garment-supporters, Stud-base for. B. F. Orewiler. No. 1,153,107; Sept. 7; Gaz. vol. 218; p. 263.
- Garment-supporting device. A. S. Madden. No. 1,124,771; Jan. 12; Gaz. vol. 210; p. 595.
- Garment-supporting fixture. F. W. Meyer. No. 1,131,722; Mar. 16; Gaz. vol. 212; p. 720.
- Garment, Union. A. L. Lippitt. No. 1,153,935; Sept. 21; Gaz. vol. 218; p. 628.
- Garment, Union. R. L. Margolyes. No. 1,126,541; Jan. 26; Gaz. vol. 210; p. 1298.
- Garment, Union. W. A. Meredith. No. 1,134,056; Mar. 30; Gaz. vol. 212; p. 1644.
- Garment, Union. A. L. Perkins. No. 1,145,611; July 6; Gaz. vol. 216; p. 221.
- Garment, Union. C. M. Walker. No. 1,127,122; Feb. 2; Gaz. vol. 211; p. 162.
- Garments by wholesale, Cutting and assembling. F. A. Platz. No. 1,136,048; Apr. 20; Gaz. vol. 213; p. 778.
- Garments, Making and shaping. H. L. Nelke. No. 1,133,172; Mar. 23; Gaz. vol. 212; p. 1299.
- Garments, Making union. W. Marlow. No. 1,132,666; Mar. 23; Gaz. vol. 212; p. 1114.
- Garments, Manufacture of. L. and W. Levy. No. 1,161,702; Nov. 23; Gaz. vol. 220; p. 1291.
- Garments, Pressing. D. C. Hale, Jr. No. 1,148,675; Aug. 3; Gaz. vol. 217; p. 70.
- Garter. G. A. Burgess. No. 1,131,467; Mar. 9; Gaz. vol. 212; p. 598.
- Garter. A. P. Coolbroth. No. 1,156,393; Oct. 12; Gaz. vol. 219; p. 397.
- Garter. G. B. Glidden. No. 1,138,554; May 4; Gaz. vol. 214; p. 291.
- Garter. J. W. Smith. No. 1,165,457; Dec. 28; Gaz. vol. 221; p. 1076.
- Garter. E. B. Winters. No. 1,127,565; Feb. 9; Gaz. vol. 211; p. 355.
- Garter. E. B. Winters. No. 1,127,566; Feb. 9; Gaz. vol. 211; p. 355.
- Garter. E. B. Winters. No. 1,127,567; Feb. 9; Gaz. vol. 211; p. 356.
- Garter. E. B. Winters. No. 1,153,147; Sept. 7; Gaz. vol. 218; p. 275.
- Garter-package. W. L. Lockhart. No. 1,145,904; July 13; Gaz. vol. 216; p. 344.
- Garter-supporter. C. H. Peterson. No. 1,142,201; June 8; Gaz. vol. 215; p. 428.
- Gas absorbing and indicating apparatus for gas-analyzers. J. W. and C. W. Hays. No. 1,153,912; Sept. 21; Gaz. vol. 218; p. 620.
- Gas-analysis apparatus. C. W. Heath. No. 1,124,432; Jan. 12; Gaz. vol. 210; p. 473.
- Gas-analyzing apparatus. J. W. and C. W. Hays. No. 1,153,911; Sept. 21; Gaz. vol. 218; p. 620.
- Gas-analyzing apparatus. O. Matzerath. No. 1,154,792; Sept. 28; Gaz. vol. 218; p. 950.
- Gas and air mixer. F. Peifer. No. 1,160,196; Nov. 16; Gaz. vol. 220; p. 714.
- Gas and air mixer, Proportional. F. K. Berry. No. 1,159,737; Nov. 9; Gaz. vol. 220; p. 498.
- Gas and producing coke, Oven for generating. H. Koppers. No. 1,134,683; Apr. 6; Gaz. vol. 213; p. 219.
- Gas apparatus. O. B. Evans. No. 1,165,657; Dec. 28; Gaz. vol. 221; p. 1147.
- Gas apparatus. J. F. Leeper. No. 1,160,915; Nov. 16; Gaz. vol. 220; p. 968.
- Gas apparatus, Acetylene-. A. Messer. No. 1,163,939; Dec. 14; Gaz. vol. 221; p. 467.
- Gas, Apparatus for manufacturing carbureted hydrogen. B. Van Steenberg. No. 1,144,800; June 29; Gaz. vol. 215; p. 1425.
- Gas, Apparatus for manufacturing coal-. H. Bruce. No. 1,144,977; June 29; Gaz. vol. 215; p. 1484.
- Gas, Apparatus for recovering sulfur and ammonia from. E. F. Lloyd. No. 1,132,594; Mar. 23; Gaz. vol. 212; p. 1087.
- Gas-bags or other fluid-retaining envelops for airships or other purposes, Forming. T. Sloper. No. 1,140,921; May 25; Gaz. vol. 214; p. 1234.
- Gas-bench. W. G. Laird and G. R. Shields. No. 1,147,103; July 20; Gaz. vol. 216; p. 784.
- Gas-benches, Pressure control for. H. A. Carpenter and A. W. Warner. No. 1,138,727; May 11; Gaz. vol. 214; p. 391.
- Gas-burner. B. C. Bartlebaugh. No. 1,153,013; Sept. 7; Gaz. vol. 218; p. 232.
- Gas-burner. B. C. Bartlebaugh. No. 1,161,282; Nov. 23; Gaz. vol. 220; p. 1145.
- Gas-burner. S. C. Beach, Jr., and J. B. Hagan, Jr. No. 1,165,488; Dec. 28; Gaz. vol. 221; p. 1087.
- Gas-burner. E. Birkholz. No. 1,165,835; Dec. 28; Gaz. vol. 221; p. 1207.
- Gas-burner. G. D. Bradshaw. No. 1,149,622; Aug. 10; Gaz. vol. 217; p. 510.
- Gas-burner. A. K. Brettelle. No. 1,129,546; Feb. 23; Gaz. vol. 211; p. 1134.
- Gas-burner. F. E. Brown. No. 1,150,166; Aug. 17; Gaz. vol. 217; p. 766.
- Gas-burner. G. J. Cominos. No. 1,123,489; Jan. 5; Gaz. vol. 210; p. 100.
- Gas-burner. C. G. Cronwall. No. 1,158,986; Nov. 2; Gaz. vol. 220; p. 200.
- Gas-burner. O. K. Earle and F. J. Madden. No. 1,129,080; Feb. 23; Gaz. vol. 211; p. 970.
- Gas-burner. E. W. Evans. No. 1,134,114; Apr. 6; Gaz. vol. 213; p. 11.
- Gas-burner. G. W. Graves. No. 1,134,122; Apr. 6; Gaz. vol. 213; p. 13.
- Gas-burner. I. M. Justice. No. 1,148,903; Aug. 3; Gaz. vol. 217; p. 148.
- Gas-burner. F. Krauss. No. 1,127,455; Feb. 9; Gaz. vol. 211; p. 318.
- Gas-burner. F. T. A. Lasschuit. No. 1,146,943; July 20; Gaz. vol. 216; p. 729.
- Gas-burner. L. D. Lovekin. No. 1,134,628; Apr. 6; Gaz. vol. 213; p. 198.
- Gas-burner. A. H. Merrill. No. 1,139,698; May 18; Gaz. vol. 214; p. 770.
- Gas-burner. H. W. O'Dowd. No. 1,132,029; Mar. 16; Gaz. vol. 212; p. 833.

Alphabetical list of inventions—Continued.

- Gas-burner. O. Oesterlen and K. C. Müller. No. 1,164,854; Dec. 21; Gaz. vol. 221; p. 827.
- Gas-burner. F. Oudeville. No. 1,135,840; Apr. 13; Gaz. vol. 213; p. 666.
- Gas-burner. B. R. Parrott. No. 1,135,047; Apr. 13; Gaz. vol. 213; p. 390.
- Gas-burner. C. A. Peterson. No. 1,149,535; Aug. 10; Gaz. vol. 217; p. 476.
- Gas-burner. P. J. Quinlan. No. 1,164,210; Dec. 14; Gaz. vol. 221; p. 560.
- Gas-burner. A. J. Reedy. No. 1,149,686; Aug. 10; Gaz. vol. 217; p. 533.
- Gas-burner. C. V. Roberts and J. W. Butler. No. 1,138,416; May 4; Gaz. vol. 214; p. 246.
- Gas-burner. G. Van Daam. No. 1,155,114; Sept. 28; Gaz. vol. 218; p. 1061.
- Gas-burner and automatic cut-off therefor. J. E. Jargstorf. No. 1,140,161; May 18; Gaz. vol. 214; p. 933.
- Gas burner and mixer. J. A. Kloeb. No. 1,132,722; Mar. 23; Gaz. vol. 212; p. 1134.
- Gas burner and mixer. A. H. Koch. No. 1,130,984; Mar. 9; Gaz. vol. 212; p. 432.
- Gas-burner and valve-actuating mechanism. A. Papinl. No. 1,142,454; June 8; Gaz. vol. 215; p. 519.
- Gas-burner and water-heater, Combination. G. Pahl. No. 1,124,646; Jan. 12; Gaz. vol. 210; p. 552.
- Gas-burner appliance. G. H. Hermann. No. 1,144,199; June 22; Gaz. vol. 215; p. 1190.
- Gas-burner-controlling mechanism, Automatic. J. H. Skitt. No. 1,132,883; Mar. 23; Gaz. vol. 212; p. 1193.
- Gas burner, Fuel-. H. H. Southworth. No. 1,162,315; Nov. 30; Gaz. vol. 220; p. 1552.
- Gas-burner igniter. F. Andreas. No. 1,151,327; Aug. 24; Gaz. vol. 217; p. 1222.
- Gas-burner igniting device. B. Morgan. No. 1,123,349; Jan. 5; Gaz. vol. 210; p. 53.
- Gas-burner, Incandescent. G. Baty and R. M. Ryan. No. 1,138,833; May 11; Gaz. vol. 214; p. 430.
- Gas burner, Kerosene-. W. F. Day. No. 1,140,361; May 25; Gaz. vol. 214; p. 1036.
- Gas-burner lighting device. E. S. Allen. No. 1,124,383; Jan. 12; Gaz. vol. 210; p. 455.
- Gas-burner-lighting device. G. H. Schaetzel. No. 1,134,350; Apr. 6; Gaz. vol. 213; p. 98.
- Gas burner, Oil-. R. I. Blumberg. No. 1,162,558; Nov. 30; Gaz. vol. 220; p. 1634.
- Gas burner, Oil-. W. Mitchell. No. 1,136,886; Apr. 20; Gaz. vol. 213; p. 1075.
- Gas-burner, Safety. G. F. Herrmann. No. 1,135,283; Apr. 13; Gaz. vol. 213; p. 468.
- Gas-burner safety attachment. E. Anderson. No. 1,163,878; Dec. 14; Gaz. vol. 221; p. 446.
- Gas-burner tip. T. A. Bell. No. 1,140,655; May 25; Gaz. vol. 214; p. 1140.
- Gas-burner, Vacuum. W. E. Batton. No. 1,126,939; Feb. 2; Gaz. vol. 211; p. 96.
- Gas-burner valves, Automatically-adjustable mixer for. A. J. Reedy. No. 1,153,643; Sept. 14; Gaz. vol. 218; p. 491.
- Gas-burners, Automatic cut-off for. V. Abbate. No. 1,136,202; Apr. 20; Gaz. vol. 213; p. 832.
- Gas-burners, Shutter-support for. H. C. Welskittel. No. 1,143,469; June 15; Gaz. vol. 215; p. 912.
- Gas-check pads, Composition for core of. G. Gerdorn. No. 1,143,622; June 22; Gaz. vol. 215; p. 989.
- Gas-cleaner. J. McPhail. No. 1,164,949; Dec. 21; Gaz. vol. 221; p. 860.
- Gas-cocks and the like, Time-actuating device for. E. Barber. No. 1,143,933; June 22; Gaz. vol. 215; p. 1094.
- Gas-collecting apparatus. J. W. Hays. No. 1,141,543; June 1; Gaz. vol. 215; p. 163.
- Gas-collector. L. M. Ellison. No. 1,128,669; Feb. 16; Gaz. vol. 211; p. 790.
- Gas-compressor. H. G. Gillmor. No. 1,130,394; Mar. 2; Gaz. vol. 212; p. 192.
- Gas-controller. D. B. Grubb and H. B. Butler. No. 1,150,759; Aug. 17; Gaz. vol. 217; p. 972.
- Gas controlling and igniting apparatus. E. N. and E. A. Frary. No. 1,123,722; Jan. 5; Gaz. vol. 210; p. 179.
- Gas-controlling apparatus. A. R. Schiele and C. H. Morrow. No. 1,161,415; Nov. 23; Gaz. vol. 220; p. 1193.
- Gas-currents, Apparatus for trapping particles in suspension in. T. E. Murray and C. B. Grady. No. 1,132,678; Mar. 23; Gaz. vol. 212; p. 1118.
- Gas-currents, Device for trapping particles in suspension in. T. E. Murray and C. B. Grady. No. 1,132,677; Mar. 23; Gaz. vol. 212; p. 1117.
- Gas cut-off, Automatic. B. Friedman. No. 1,129,475; Feb. 23; Gaz. vol. 211; p. 1110.
- Gas cut-off, Automatic. A. W. Marcille. No. 1,155,257; Sept. 28; Gaz. vol. 218; p. 1108.
- Gas cut-off, Emergency. G. R. Nixon. No. 1,152,338; Aug. 31; Gaz. vol. 217; p. 1618.
- Gas determinant, Explosive-. A. N. Diehl and W. Ahlen. No. 1,150,505; Aug. 17; Gaz. vol. 217; p. 884.
- Gas-dispensing device. R. M. Bolton. No. 1,158,780; Nov. 2; Gaz. vol. 220; p. 130.
- Gas-distributing mechanism. D. E. Murray. No. 1,140,278; May 18; Gaz. vol. 214; p. 972.
- Gas-engine. F. C. Avery. No. 1,135,650; Apr. 13; Gaz. vol. 213; p. 599.
- Gas-engine. A. A. Bamford. No. 1,163,309; Dec. 4; Gaz. vol. 221; p. 201.
- Gas-engine. W. O. Bingham. No. 1,151,155; Aug. 24; Gaz. vol. 217; p. 1166.
- Gas-engine. T. P. Brooke. No. 1,158,625; Nov. 2; Gaz. vol. 220; p. 76.
- Gas-engine. O. M. De Launty. No. 1,125,072; Jan. 19; Gaz. vol. 210; p. 737.
- Gas-engine. H. B. Embler. No. 1,135,884; Apr. 13; Gaz. vol. 213; p. 680.
- Gas-engine. J. C. English. No. 1,159,481; Nov. 9; Gaz. vol. 220; p. 406.
- Gas-engine. J. C. English. No. 1,159,482; Nov. 9; Gaz. vol. 220; p. 407.
- Gas-engine. C. M. Gay. No. 1,151,455; Aug. 24; Gaz. vol. 217; p. 1264.
- Gas-engine. F. Gruzecki. No. 1,132,928; Mar. 23; Gaz. vol. 212; p. 1210.
- Gas-engine. E. Hansen. No. 1,162,054; Nov. 30; Gaz. vol. 220; p. 1460.
- Gas-engine. E. Huber. No. 1,135,021; Apr. 13; Gaz. vol. 213; p. 380.
- Gas-engine. W. R. Kahlenberg. No. 1,163,758; Dec. 14; Gaz. vol. 221; p. 404.
- Gas-engine. W. Kelly. No. 1,140,163; May 18; Gaz. vol. 214; p. 933.
- Gas-engine. R. Miller. No. 1,130,419; Mar. 2; Gaz. vol. 212; p. 201.
- Gas-engine. R. S. Moore and J. L. Simmons. No. 1,131,257; Mar. 9; Gaz. vol. 212; p. 525.
- Gas-engine. W. E. Roberts and F. A. Bullington. No. 1,163,858; Dec. 14; Gaz. vol. 221; p. 439.
- Gas-engine. C. K. Salisbury. No. 1,129,426; Feb. 23; Gaz. vol. 211; p. 1092.
- Gas-engine. F. K. Shaffer. No. 1,160,113; Nov. 9; Gaz. vol. 220; p. 631.
- Gas-engine. E. A. Sperry. No. 1,141,985; June 8; Gaz. vol. 215; p. 351.
- Gas-engine. C. A. Stapleton and O. P. Burchfiel. No. 1,143,736; June 22; Gaz. vol. 215; p. 1027.
- Gas-engine. C. N. Stever. No. 1,144,921; June 29; Gaz. vol. 215; p. 1465.
- Gas-engine. A. Winton. No. 1,134,794; Apr. 6; Gaz. vol. 213; p. 260.
- Gas-engine. A. Winton. No. 1,134,795; Apr. 6; Gaz. vol. 213; p. 260.
- Gas engine and turbine and process of converting heat energy into power, Combined. C. C. Thomas. No. 1,152,361; Aug. 31; Gaz. vol. 217; p. 1627.
- Gas-engine exhaust mechanism. W. H. Hunt. No. 1,149,831; Aug. 10; Gaz. vol. 217; p. 584.
- Gas-engine, Turbine. J. J. Smiddy. No. 1,132,742; Mar. 23; Gaz. vol. 212; p. 1141.
- Gas-engine, Two-cycle. M. W. Hall. No. 1,158,380; Oct. 26; Gaz. vol. 219; p. 1186.
- Gas-engine, Two-cycle. M. W. Hall. No. 1,158,381; Oct. 26; Gaz. vol. 219; p. 1186.
- Gas-fire. W. A. Wilson. No. 1,156,735; Oct. 12; Gaz. vol. 219; p. 517.
- Gas-fired kiln, Continuous compartment. W. D. Richardson. No. 1,133,885; Mar. 30; Gaz. vol. 212; p. 1590.
- Gas-fixture safety attachment. J. C. Casey. No. 1,166,110; Dec. 28; Gaz. vol. 221; p. 1303.
- Gas floor-furnace. I. G. Cowell. No. 1,133,460; Mar. 30; Gaz. vol. 212; p. 1436.
- Gas for use in internal-combustion engines, Device for generating. J. H. Hely. No. 1,164,515; Dec. 14; Gaz. vol. 221; p. 668.
- Gas from bituminous fuels in intermittent operation, Production of. P. Koster. No. 1,160,908; Nov. 16; Gaz. vol. 220; p. 966.
- Gas from liquid hydrocarbons, Manufacturing illuminating-. E. C. and L. B. Jones. No. 1,157,225; Oct. 19; Gaz. vol. 219; p. 719.
- Gas-furnace. J. H. Anspach. No. 1,132,296; Mar. 16; Gaz. vol. 212; p. 932.
- Gas-furnace. J. B. Doyle. No. 1,158,652; Nov. 2; Gaz. vol. 220; p. 86.
- Gas-furnace. O. J. Kuenhold. No. 1,161,776; Nov. 23; Gaz. vol. 220; p. 1315.
- Gas-furnace and connections for parts thereof. L. H. Freymuth. No. 1,135,006; Apr. 13; Gaz. vol. 213; p. 374.
- Gas, Generating. W. B. Chapman. No. 1,125,962; Jan. 26; Gaz. vol. 210; p. 1086.
- Gas-generating apparatus. C. D. McHenry. No. 1,154,869; Sept. 28; Gaz. vol. 218; p. 975.
- Gas-generating apparatus, Coal-. H. A. Carpenter. No. 1,140,797; May 25; Gaz. vol. 214; p. 1187.
- Gas-generating apparatus, Coal-. H. A. Carpenter. No. 1,140,798; May 25; Gaz. vol. 214; p. 1188.
- Gas-generating burner. J. H. Griffith. No. 1,156,139; Oct. 12; Gaz. vol. 219; p. 310.
- Gas-generating furnace. W. C. Loudon. No. 1,145,327; July 6; Gaz. vol. 216; p. 122.
- Gas-generating machines, Actuating mechanism for. N. J. Russell. No. 1,138,151; May 4; Gaz. vol. 214; p. 152.
- Gas-generating oil-burner. C. H. Audett and J. Linhoff. No. 1,151,329; Aug. 24; Gaz. vol. 217; p. 1223.
- Gas generating or producing apparatus. W. R. Degenhardt. No. 1,128,858; Feb. 16; Gaz. vol. 211; p. 855.

Alphabetical list of inventions—Continued.

- Gas generating or producing apparatus. W. R. Degenhardt and W. Jordan. No. 1,133,010; Mar. 23; Gaz. vol. 212; p. 1241.
- Gas, Generating steam accessory to the production of producer. H. Foersterling. No. 1,151,676; Aug. 31; Gaz. vol. 217; p. 1388.
- Gas-generating system. C. E. Clark. No. 1,147,608; July 20; Gaz. vol. 216; p. 962.
- Gas-generator. G. H. Bentley. No. 1,153,417; Sept. 14; Gaz. vol. 218; p. 412.
- Gas-generator. C. J. Clepton. No. 1,133,617; Mar. 30; Gaz. vol. 212; p. 1494.
- Gas-generator. W. C. Minniear. No. 1,146,764; July 13; Gaz. vol. 216; p. 646.
- Gas-generator. W. Mitchell. No. 1,141,072; May 25; Gaz. vol. 214; p. 1284.
- Gas-generator. W. P. Tinsley. No. 1,130,861; Mar. 9; Gaz. vol. 212; p. 389.
- Gas generator, Acetylene. C. W. Adsit. No. 1,132,143; Mar. 16; Gaz. vol. 212; p. 875.
- Gas generator, Acetylene. W. Banwarth. No. 1,150,730; Aug. 17; Gaz. vol. 217; p. 962.
- Gas generator, Acetylene. R. Bercheen. No. 1,159,159; Nov. 2; Gaz. vol. 220; p. 259.
- Gas generator, Acetylene. R. D. Braden. No. 1,147,843; July 27; Gaz. vol. 216; p. 1071.
- Gas generator, Acetylene. R. D. Braden. No. 1,148,496; Aug. 3; Gaz. vol. 217; p. 4.
- Gas generator, Acetylene. H. C. Copenhagen. No. 1,123,691; Jan. 5; Gaz. vol. 210; p. 168.
- Gas generator, Acetylene. C. A. Duncan and G. L. Shoup. No. 1,148,364; July 27; Gaz. vol. 216; p. 1257.
- Gas generator, Acetylene. G. M. Ellis. No. 1,135,002; Apr. 13; Gaz. vol. 213; p. 373.
- Gas generator, Acetylene. F. Feer. No. 1,132,921; Mar. 23; Gaz. vol. 212; p. 1207.
- Gas generator, Acetylene. J. M. Hoover. No. 1,161,675; Nov. 23; Gaz. vol. 220; p. 1281.
- Gas generator, Acetylene. J. Karl. No. 1,155,422; Oct. 5; Gaz. vol. 219; p. 34.
- Gas generator, Acetylene. F. H. McGurk. No. 1,165,887; Dec. 28; Gaz. vol. 221; p. 1226.
- Gas generator, Acetylene. J. J. McNoon. No. 1,144,044; June 22; Gaz. vol. 215; p. 1135.
- Gas generator, Acetylene. F. F. Novak. No. 1,162,708; Nov. 30; Gaz. vol. 220; p. 1682.
- Gas generator, Acetylene. W. M. Reece. No. 1,154,433; Sept. 21; Gaz. vol. 218; p. 799.
- Gas generator, Acetylene. E. M. Rodebaugh. No. 1,156,495; Oct. 12; Gaz. vol. 219; p. 433.
- Gas generator, Acetylene. E. M. Rosenbluth. No. 1,140,853; May 25; Gaz. vol. 214; p. 1208.
- Gas generator, Acetylene. F. C. Schramm. No. 1,142,206; June 8; Gaz. vol. 215; p. 430.
- Gas generator, Acetylene. D. R. Way. No. 1,150,983; Aug. 24; Gaz. vol. 217; p. 1107.
- Gas generator and burner. J. F. Hopper. No. 1,132,583; Mar. 23; Gaz. vol. 212; p. 1082.
- Gas generator and holder, Acetylene. R. D. Braden. No. 1,148,497; Aug. 3; Gaz. vol. 217; p. 4.
- Gas generator, Bleaching. J. Neely. No. 1,145,609; July 6; Gaz. vol. 216; p. 220.
- Gas generator, Kerosene. F. N. Percival and W. Patterson. No. 1,131,157; Mar. 9; Gaz. vol. 212; p. 489.
- Gas generator, Safety acetylene. L. Wagschal. No. 1,159,814; Nov. 9; Gaz. vol. 220; p. 526.
- Gas-generators, Feed mechanism for. G. B. Dutcher. No. 1,126,736; Feb. 2; Gaz. vol. 211; p. 24.
- Gas-generators, Fuel-supply tank for. J. B. Camenzind. No. 1,151,081; Aug. 24; Gaz. vol. 217; p. 1140.
- Gas generators, Means for controlling the air-supply to water-. L. C. Loewenstein. No. 1,134,754; Apr. 6; Gaz. vol. 213; p. 245.
- Gas-heated iron. R. Joyce. No. 1,127,998; Feb. 9; Gaz. vol. 211; p. 508.
- Gas-heated iron. R. Joyce. No. 1,155,580; Oct. 5; Gaz. vol. 219; p. 88.
- Gas-heater. G. A. Bronder. No. 1,149,334; Aug. 10; Gaz. vol. 217; p. 406.
- Gas-heater. O. E. Chaney. No. 1,150,998; Aug. 24; Gaz. vol. 217; p. 1112.
- Gas-heater. E. Cole. No. 1,126,617; Jan. 26; Gaz. vol. 210; p. 1325.
- Gas-heater. W. Collins. No. 1,148,360; July 27; Gaz. vol. 216; p. 1256.
- Gas-heater. J. R. Creamer. No. 1,165,571; Dec. 28; Gaz. vol. 221; p. 1115.
- Gas-heater. F. E. Doerr. No. 1,150,666; Aug. 17; Gaz. vol. 217; p. 940.
- Gas-heater. A. H. Eddy. No. 1,147,315; July 20; Gaz. vol. 216; p. 857.
- Gas-heater. H. E. Loebe. No. 1,147,521; July 20; Gaz. vol. 216; p. 931.
- Gas-heater. T. J. McCarthy. No. 1,137,011; Apr. 27; Gaz. vol. 213; p. 1158.
- Gas-heater. J. T. Reznor. No. 1,163,458; Dec. 7; Gaz. vol. 221; p. 253.
- Gas-heater. G. E. Sharpe. No. 1,148,057; July 27; Gaz. vol. 216; p. 1146.
- Gas-heater. G. E. Sharpe. No. 1,155,283; Sept. 28; Gaz. vol. 218; p. 1115.
- Gas heater and stove. E. J. Allen. No. 1,141,096; June 1; Gaz. vol. 215; p. 3.
- Gas heater, Compressed. J. J. Yager. No. 1,162,537; Nov. 30; Gaz. vol. 220; p. 1628.
- Gas-igniter. M. M. Truax. No. 1,157,911; Oct. 26; Gaz. vol. 219; p. 1022.
- Gas-iron. G. Wedderburn. No. 1,151,140; Aug. 24; Gaz. vol. 217; p. 1160.
- Gas-jets, Burner attachment for. O. W. R. Elfreich. No. 1,127,972; Feb. 9; Gaz. vol. 211; p. 499.
- Gas-light burners, Safety device for incandescent. G. Dalén. No. 1,132,305; Mar. 16; Gaz. vol. 212; p. 935.
- Gas-light, Safety. J. L. Casler. No. 1,125,471; Jan. 19; Gaz. vol. 210; p. 879.
- Gas-lighter. J. Y. Parke. No. 1,130,195; Mar. 2; Gaz. vol. 212; p. 124.
- Gas-lighter. E. H. Sturts. No. 1,153,969; Sept. 21; Gaz. vol. 218; p. 639.
- Gas-lighter, Electric. R. F. Dowdy. No. 1,159,908; Nov. 9; Gaz. vol. 220; p. 560.
- Gas-lighting apparatus. G. B. Collier. No. 1,133,265; Mar. 30; Gaz. vol. 212; p. 1367.
- Gas-lighting apparatus. G. B. Collier. No. 1,133,267; Mar. 30; Gaz. vol. 212; p. 1368.
- Gas-lighting apparatus. A. H. Francks. No. 1,124,123; Jan. 5; Gaz. vol. 210; p. 314.
- Gas-lighting, Apparatus for distance. E. W. Havers. No. 1,132,933; Mar. 23; Gaz. vol. 212; p. 1212.
- Gas-lighting device. C. F. Mason. No. 1,127,476; Feb. 9; Gaz. vol. 211; p. 326.
- Gas-lighting device. C. F. Mason. No. 1,127,477; Feb. 9; Gaz. vol. 211; p. 326.
- Gas-lighting device. C. F. Mason. No. 1,127,478; Feb. 9; Gaz. vol. 211; p. 327.
- Gas-lighting device. A. B. Shaw. No. 1,148,466; July 27; Gaz. vol. 216; p. 1290.
- Gas-main stopper. J. S. Donohue. No. 1,151,514; Aug. 24; Gaz. vol. 217; p. 1286.
- Gas, Making. H. A. Carpenter. No. 1,166,183; Dec. 28; Gaz. vol. 221; p. 1332.
- Gas, Making. S. M. Darling. No. 1,157,089; Oct. 19; Gaz. vol. 219; p. 671.
- Gas, Making. G. M. S. Tait. No. 1,128,549; Feb. 16; Gaz. vol. 211; p. 749.
- Gas-mantle and making the same. E. E. Otto. No. 1,146,511; July 13; Gaz. vol. 216; p. 560.
- Gas-mantles, Means for holding a plurality of. W. T. Wilson. No. 1,138,435; May 4; Gaz. vol. 214; p. 252.
- Gas-mantles of the incandescent type for illuminating purposes, Reinforcement of. G. T. Hadley. No. 1,123,869; Jan. 5; Gaz. vol. 210; p. 229.
- Gas, Manufacture of carbureted producer. T. F. Fitzsimmons. No. 1,164,081; Dec. 14; Gaz. vol. 221; p. 518.
- Gas, Manufacture of carbureted water-. O. B. Evans. No. 1,125,676; Jan. 19; Gaz. vol. 210; p. 954.
- Gas, Manufacture of water-. C. F. Zeek. No. 1,152,869; Sept. 7; Gaz. vol. 218; p. 180.
- Gas, Manufacturing. H. A. Carpenter and D. D. Barnum. No. 1,140,113; May 18; Gaz. vol. 214; p. 917.
- Gas, Manufacturing. J. W. Hornsey. No. 1,159,675; Nov. 9; Gaz. vol. 220; p. 474.
- Gas, Manufacturing. B. Van Steenberg. No. 1,124,364; Jan. 12; Gaz. vol. 210; p. 449.
- Gas, Manufacturing. H. F. Wallmann. No. 1,146,776; July 13; Gaz. vol. 216; p. 650.
- Gas, Means for controlling the quantity and quality of the production of. J. M. Rusby. No. 1,165,715; Dec. 28; Gaz. vol. 221; p. 1167.
- Gas, Means for handling and transporting liquid. G. L. Cabot. No. 1,140,250; May 18; Gaz. vol. 214; p. 963.
- Gas-meter. J. W. Britton. No. 1,149,716; Aug. 10; Gaz. vol. 217; p. 543.
- Gas-meter. R. L. Dezendorf. No. 1,160,391; Nov. 16; Gaz. vol. 220; p. 781.
- Gas-meter. T. Jackson. No. 1,123,540; Jan. 5; Gaz. vol. 210; p. 118.
- Gas-meter. T. Jackson. No. 1,148,779; Aug. 3; Gaz. vol. 217; p. 107.
- Gas-meter. A. Rogers. No. 1,141,725; June 1; Gaz. vol. 215; p. 226.
- Gas, Method of and apparatus for the manufacture of producer. L. E. Hirt. No. 1,130,512; Mar. 2; Gaz. vol. 212; p. 236.
- Gas-mixer. R. Bergfeld. No. 1,123,981; Jan. 5; Gaz. vol. 210; p. 265.
- Gas-mixer. S. H. Hale. No. 1,127,757; Feb. 9; Gaz. vol. 211; p. 423.
- Gas-mixing apparatus. G. Dalén. No. 1,153,766; Sept. 14; Gaz. vol. 218; p. 533.
- Gas-mixing device. A. C. Clark. No. 1,156,975; Oct. 19; Gaz. vol. 219; p. 631.
- Gas mixtures of known constituents, Method of and apparatus for quantitatively analyzing. H. Gerdien. No. 1,133,556; Mar. 30; Gaz. vol. 212; p. 1471.
- Gas mixtures, Separating. J. E. Lillienfeld. No. 1,163,423; Dec. 7; Gaz. vol. 221; p. 241.
- Gas-motor. L. A. Abbott. No. 1,126,332; Jan. 26; Gaz. vol. 210; p. 1221.
- Gas-motor. S. Wigelius. No. 1,135,418; Apr. 13; Gaz. vol. 213; p. 516.

Alphabetical list of inventions—Continued.

- Gas or liquid screening device. L. M. Merrill. No. 1,161,715; Nov. 23; Gaz. vol. 220; p. 1295.
- Gas or other fluids, Emergency shut-off apparatus for. J. J. Sullivan. No. 1,165,554; Dec. 28; Gaz. vol. 221; p. 1109.
- Gas or the like, Device for separating liquids from. F. Nies, T. Vogel, and F. Berg. No. 1,159,073; Nov. 2; Gaz. vol. 220; p. 229.
- Gas or vapor from liquid fuel, Apparatus for the generation of combustible. F. G. L. Biddlecombe. No. 1,147,363; July 20; Gaz. vol. 216; p. 874.
- Gas plant, Acetylene. O. K. Stuart. No. 1,160,668; Nov. 16; Gaz. vol. 220; p. 882.
- Gas plants, Working ammonia-recovery producer. T. Rigby. No. 1,141,829; June 1; Gaz. vol. 215; p. 259.
- Gas-pressure regulator. P. Keller. No. 1,144,657; June 29; Gaz. vol. 215; p. 1374.
- Gas, Process and apparatus for compressing, drying, and transferring chlorine. J. W. Aylsworth. No. 1,134,432; Apr. 6; Gaz. vol. 213; p. 127.
- Gas, Process and substance for purifying. J. C. Heckman. No. 1,154,858; Sept. 28; Gaz. vol. 218; p. 971.
- Gas, Process of and apparatus for determining benzol in. C. L. O. Graul. No. 1,163,654; Dec. 14; Gaz. vol. 221; p. 366.
- Gas-producer. W. O. Amsler. No. 1,149,611; Aug. 10; Gaz. vol. 217; p. 505.
- Gas-producer. W. B. Chapman. No. 1,142,144; June 8; Gaz. vol. 215; p. 409.
- Gas-producer. W. B. Chapman. No. 1,162,452; Nov. 30; Gaz. vol. 220; p. 1598.
- Gas-producer. W. B. Chapman. No. 1,165,569; Dec. 28; Gaz. vol. 221; p. 1114.
- Gas-producer. J. A. Herrick. No. 1,162,357; Nov. 30; Gaz. vol. 220; p. 1566.
- Gas-producer. E. A. W. Jefferies. No. 1,152,514; Sept. 7; Gaz. vol. 218; p. 49.
- Gas-producer. E. A. W. Jefferies. No. 1,153,623; Sept. 14; Gaz. vol. 218; p. 485.
- Gas-producer. E. A. W. Jefferies and G. H. Isley. No. 1,142,100; June 8; Gaz. vol. 215; p. 394.
- Gas-producer. N. Latta. No. 1,142,524; June 8; Gaz. vol. 215; p. 543.
- Gas-producer. W. J. Lindsay. No. 1,160,516; Nov. 16; Gaz. vol. 220; p. 825.
- Gas-producer. O. D. Lucas. No. 1,153,506; Sept. 14; Gaz. vol. 218; p. 444.
- Gas-producer. P. G. Schmidt. No. 1,142,633; June 8; Gaz. vol. 215; p. 580.
- Gas-producer. P. G. Schmidt. No. 1,142,914; June 15; Gaz. vol. 215; p. 716.
- Gas-producer. G. M. S. Tait. No. 1,165,347; Dec. 21; Gaz. vol. 221; p. 997.
- Gas-producer. H. F. Wallmann. No. 1,125,919; Jan. 19; Gaz. vol. 210; p. 1039.
- Gas-producer. G. J. Weber. No. 1,129,258; Feb. 23; Gaz. vol. 211; p. 1032.
- Gas-producer, fuel, Prepared. H. L. Doherty. No. 1,150,839; Aug. 17; Gaz. vol. 217; p. 1001.
- Gas-producer, grates, Ash-discharge device for. Q. Moore. No. 1,133,995; Mar. 30; Gaz. vol. 212; p. 1623.
- Gas-producer, Portable. F. Balassa. No. 1,134,580; Apr. 6; Gaz. vol. 213; p. 181.
- Gas-producers, Ash removing and poking apparatus for. J. B. Nau. No. 1,161,404; Nov. 23; Gaz. vol. 220; p. 1189.
- Gas-producers, Operating. H. Koppers. No. 1,146,627; July 13; Gaz. vol. 216; p. 600.
- Gas-producers, Revolving grate for. H. Röhmann. No. 1,133,577; Mar. 30; Gaz. vol. 212; p. 1479.
- Gas, Producing. P. G. Schmidt. No. 1,164,408; Dec. 14; Gaz. vol. 221; p. 631.
- Gas-producing apparatus. R. H. Goddard. No. 1,154,009; Sept. 21; Gaz. vol. 218; p. 653.
- Gas-producing furnace. F. C. Hamilton. No. 1,145,892; July 13; Gaz. vol. 216; p. 339.
- Gas products, Apparatus for burning unburnt. A. Jansen. No. 1,132,660; Mar. 23; Gaz. vol. 212; p. 1112.
- Gas, Purification of. H. F. Smith. No. 1,140,198; May 18; Gaz. vol. 214; p. 945.
- Gas, Purifying. M. P. P. Riis. No. 1,156,022; Oct. 5; Gaz. vol. 219; p. 241.
- Gas-purifying apparatus. H. Dicke. No. 1,129,558; Feb. 23; Gaz. vol. 211; p. 1138.
- Gas, Purifying hydrogen. C. Bosch and W. Wild. No. 1,126,371; Jan. 26; Gaz. vol. 210; p. 1235.
- Gas-purifying material. J. C. Heckman. No. 1,154,859; Sept. 28; Gaz. vol. 218; p. 971.
- Gas, Recovering as an ammonium salt the nitrogen of the hydrocyanic acid in crude coal-. E. V. Evans. No. 1,148,368; July 27; Gaz. vol. 216; p. 1259.
- Gas-regulator. G. A. Gase. No. 1,162,347; Nov. 30; Gaz. vol. 220; p. 1563.
- Gas-regulator. P. Keller. No. 1,144,040; June 22; Gaz. vol. 215; p. 1134.
- Gas-regulator. F. W. Magee. No. 1,163,249; Dec. 7; Gaz. vol. 221; p. 181.
- Gas, Removing tar from. F. W. Steere. No. 1,130,213; Mar. 2; Gaz. vol. 212; p. 129.
- Gas, Removing tar from. F. W. Steere. No. 1,130,214; Mar. 2; Gaz. vol. 212; p. 129.
- Gas, Removing tarry substances from. F. W. Steere. No. 1,130,212; Mar. 2; Gaz. vol. 212; p. 129.
- Gas-retort chambers and the like, Heating coal-. J. M. Rusby. No. 1,140,337; May 18; Gaz. vol. 214; p. 993.
- Gas-retorts, Apparatus for charging and discharging. H. A. Carpenter, R. L. Hibbard, and A. W. Warner. No. 1,144,166; June 22; Gaz. vol. 215; p. 1179.
- Gas-retorts, Closure means for. H. A. Carpenter, R. L. Hibbard, and C. Warren. No. 1,145,672; July 6; Gaz. vol. 216; p. 243.
- Gas-retorts, Machine for charging and discharging. H. A. Carpenter and R. L. Hibbard. No. 1,144,165; June 22; Gaz. vol. 215; p. 1179.
- Gas-retorts, Machine for charging and discharging. H. A. Carpenter and R. L. Hibbard. No. 1,149,631; Aug. 10; Gaz. vol. 217; p. 513.
- Gas-retorts, Means for controlling the operation of. H. A. Carpenter and A. W. Warner. No. 1,144,167; June 22; Gaz. vol. 215; p. 1180.
- Gas-retorts, Means for controlling the operation of. H. A. Carpenter and A. W. Warner. No. 1,144,168; June 22; Gaz. vol. 215; p. 1180.
- Gas-retorts, Means for controlling the operation of. H. A. Carpenter and A. W. Warner. No. 1,144,169; June 22; Gaz. vol. 215; p. 1180.
- Gas-saver. J. W. Langendorfer. No. 1,123,898; Jan. 5; Gaz. vol. 210; p. 239.
- Gas-saving appliance. A. R. Umbarger. No. 1,142,779; June 8; Gaz. vol. 215; p. 630.
- Gas-scrubber. W. M. Derby. No. 1,138,460; May 4; Gaz. vol. 214; p. 260.
- Gas-scrubber. R. MacLaurin. No. 1,158,066; Oct. 26; Gaz. vol. 219; p. 1076.
- Gas-scrubber. G. M. S. Tait. No. 1,165,348; Dec. 21; Gaz. vol. 221; p. 998.
- Gas, Separating water from. H. Blau. No. 1,160,826; Nov. 16; Gaz. vol. 220; p. 937.
- Gas shut-off. L. W. Theis. No. 1,125,210; Jan. 19; Gaz. vol. 210; p. 787.
- Gas shut-off, Automatic. F. A. Pickett. No. 1,132,115; Mar. 16; Gaz. vol. 212; p. 863.
- Gas singeing-machines, Burner for. W. W. Kemp and W. H. Van Horn. No. 1,128,791; Feb. 16; Gaz. vol. 211; p. 831.
- Gas, Storing mass for acetylene. G. Dalén. No. 1,140,124; May 18; Gaz. vol. 214; p. 921.
- Gas tank, Acetylene. C. E. Summers and C. B. Larmon. No. 1,162,113; Nov. 30; Gaz. vol. 220; p. 1482.
- Gas tank and regulator. J. L. Creveling. No. 1,131,335; Mar. 9; Gaz. vol. 212; p. 552.
- Gas-tester. A. L. Smyly. No. 1,146,531; July 13; Gaz. vol. 216; p. 567.
- Gas-tips, Making. A. L. Hansen. No. 1,147,018; July 20; Gaz. vol. 216; p. 755.
- Gas to burners, Device for controlling the supply of. C. W. Harrison. No. 1,155,416; Oct. 5; Gaz. vol. 219; p. 32.
- Gas, Torch-light tip for natural. A. O. Rutz. No. 1,160,329; Nov. 16; Gaz. vol. 220; p. 759.
- Gas-valve, Intermittently-operated. F. J. H. Rustige. No. 1,157,422; Oct. 19; Gaz. vol. 219; p. 790.
- Gas-valves, Safety appliance for. M. J. Sluus. No. 1,127,300; Feb. 2; Gaz. vol. 211; p. 223.
- Gas-washing. H. A. Brassert and C. J. Bacon. No. 1,123,232; Jan. 5; Gaz. vol. 210; p. 10.
- Gas-washing apparatus. J. Armstrong. No. 1,143,162; June 15; Gaz. vol. 215; p. 804.
- Gases and apparatus for practising the same, Producing reactions in. L. L. Summers. No. 1,130,941; Mar. 9; Gaz. vol. 212; p. 417.
- Gases and vapors, Contrivance for automatically detecting the presence of certain. A. and L. D. Williams. No. 1,143,473; June 15; Gaz. vol. 215; p. 914.
- Gases and vapors, Handling and treating combustible. W. M. Grosvenor. No. 1,143,623; June 22; Gaz. vol. 215; p. 989.
- Gases, Apparatus employed for compressing fermentation. J. F. and R. W. Wittmann. No. 1,128,265; Feb. 9; Gaz. vol. 211; p. 601.
- Gases, Apparatus for cooling and purifying furnace-. E. Hofmann. No. 1,155,237; Sept. 28; Gaz. vol. 218; p. 1101.
- Gases, Apparatus for cooling, washing, and mixing. H. E. Theisen. No. 1,131,966; Mar. 16; Gaz. vol. 212; p. 810.
- Gases, Apparatus for neutralizing corrosive fumes in. T. E. Murray and E. B. Ricketts. No. 1,139,053; May 11; Gaz. vol. 214; p. 507.
- Gases, Apparatus for separating suspended particles from. W. A. Schmidt and G. C. Roberts. No. 1,132,124; Mar. 16; Gaz. vol. 212; p. 867.
- Gases, Apparatus for washing, cleaning, and cooling. H. E. Theisen. No. 1,139,385; May 11; Gaz. vol. 214; p. 622.
- Gases at high temperatures and apparatus for practising same, Process for producing. L. L. Summers. No. 1,125,208; Jan. 19; Gaz. vol. 210; p. 786.
- Gases, Deodorizing waste. L. Haas. No. 1,144,193; June 22; Gaz. vol. 215; p. 1188.
- Gases, Liquefying and separating mixed. J. F. Place. No. 1,152,119; Aug. 31; Gaz. vol. 217; p. 1543.
- Gases, Method of and means for effecting the combination of. R. Winne. No. 1,166,294; Dec. 28; Gaz. vol. 221; p. 1373.

Alphabetical list of inventions—Continued.

- Gases, Neutralizing corrosive fumes in. T. E. Murray and E. B. Ricketts. No. 1,132,679; Mar. 23; Gaz. vol. 212; p. 1118.
- Gases of dry distillation and recovering the by-products thereof, Purifying. K. Burkheiser. No. 1,160,836; Nov. 16; Gaz. vol. 220; p. 941.
- Gases or fumes, Device for removing particles from. C. G. Collins. No. 1,148,501; Aug. 3; Gaz. vol. 217; p. 6.
- Gases, Process and apparatus for producing chemical actions in. C. S. Bradley. No. 1,134,583; Apr. 6; Gaz. vol. 213; p. 182.
- Gases, Producing combustible. H. Strache. No. 1,154,455; Sept. 21; Gaz. vol. 218; p. 806.
- Gases, Recovery of volatile products from. J. E. Johnson, Jr. No. 1,151,597; Aug. 31; Gaz. vol. 217; p. 1363.
- Gases, Removing sulfureted hydrogen from. K. Burkheiser. No. 1,160,375; Nov. 16; Gaz. vol. 220; p. 775.
- Gases, Separating. H. L. Doherty. No. 1,150,837; Aug. 17; Gaz. vol. 217; p. 999.
- Gases, Separating. H. D. Gue. No. 1,123,867; Jan. 5; Gaz. vol. 210; p. 229.
- Gases, Synthesis of. L. L. Summers. No. 1,130,940; Mar. 9; Gaz. vol. 212; p. 417.
- Gaseous-fluid heater. J. E. Anderau. No. 1,132,420; Mar. 16; Gaz. vol. 212; p. 975.
- Gaseous-fluid heater. P. Swenson. No. 1,133,825; Mar. 30; Gaz. vol. 212; p. 1569.
- Gaseous fluid, Means for producing and utilizing energized. J. A. Hart. No. 1,131,512; Mar. 9; Gaz. vol. 212; p. 613.
- Gaseous fuel, Apparatus for producing. F. M. Rites. No. 1,144,788; June 29; Gaz. vol. 215; p. 1421.
- Gaseous-fuel combustion, Regulating. H. L. Doherty. No. 1,150,842; Aug. 17; Gaz. vol. 217; p. 1002.
- Gaseous-fuel heater. J. S. Conwell and H. E. Hittle. No. 1,124,706; Jan. 12; Gaz. vol. 210; p. 572.
- Gaseous-fuel heater. S. Mulvaney. No. 1,128,998; Feb. 16; Gaz. vol. 211; p. 906.
- Gaseous-fuel mixer. P. H. Bayley. No. 1,139,747; May 18; Gaz. vol. 214; p. 785.
- Gaseous-fuel mixer. F. W. Simons. No. 1,139,912; May 18; Gaz. vol. 214; p. 845.
- Gaseous fuel, Producing. F. M. Rites. No. 1,144,789; June 29; Gaz. vol. 215; p. 1421.
- Gaseous fuels, Calorimetry of. H. F. Smith. No. 1,134,768; Apr. 6; Gaz. vol. 213; p. 251.
- Gaseous fuels, Homogenizing and heating device for. E. P. Ross. No. 1,160,327; Nov. 16; Gaz. vol. 220; p. 759.
- Gaseous mixture by means of centrifugal action, Process and device for separation of the elements composing a. E. Mazza. No. 1,137,774; May 4; Gaz. vol. 214; p. 18.
- Gasoline and naphtha from crude oils, petroleum products, tar-oil, or similar products, Production of. P. Danckwardt. No. 1,141,529; June 1; Gaz. vol. 215; p. 153.
- Gasoline cut-off. J. Pagano. No. 1,148,922; Aug. 3; Gaz. vol. 217; p. 155.
- Gasoline-engine. M. B. and S. T. Bates. No. 1,129,375; Feb. 23; Gaz. vol. 211; p. 1073.
- Gasoline-engine, Four-cycle. A. B. Baker. No. 1,146,990; July 20; Gaz. vol. 216; p. 746.
- Gasoline-filters, Controlling-plug for. F. A. Sutherland. No. 1,142,992; June 15; Gaz. vol. 215; p. 744.
- Gasoline-machine. H. H. Cutler. No. 1,139,106; May 11; Gaz. vol. 214; p. 526.
- Gasoline, Manufacture of. R. F. Bacon, B. T. Brooks, and C. W. Clark. No. 1,131,809; Mar. 9; Gaz. vol. 212; p. 543.
- Gasoline-meter. E. Young. No. 1,148,948; Aug. 3; Gaz. vol. 217; p. 162.
- Gasoline or like can. A. S. Oliver, Jr. No. 1,127,670; Feb. 9; Gaz. vol. 211; p. 389.
- Gasoline-receptacles, Filling-tube for. L. Kessler. No. 1,155,070; Sept. 28; Gaz. vol. 218; p. 1045.
- Gasoline service, Automatic. S. F. Mioton. No. 1,133,167; Mar. 23; Gaz. vol. 212; p. 1297.
- Gasoline shut-off, Automatic. A. C. Menges. No. 1,128,345; Feb. 16; Gaz. vol. 211; p. 679.
- Gasoline substitute. W. H. Stevens. No. 1,165,462; Dec. 28; Gaz. vol. 221; p. 1077.
- Gasoline-tank attachment. E. B. Hughson. No. 1,135,900; Apr. 13; Gaz. vol. 213; p. 686.
- Gasoline-tank heater. T. G. Wissinger. No. 1,156,198; Oct. 12; Gaz. vol. 219; p. 328.
- Gasoline-tank indicator. P. Dodokin. No. 1,162,686; Nov. 30; Gaz. vol. 220; p. 1674.
- Gasket. W. K. Howe. No. 1,153,162; Sept. 7; Gaz. vol. 218; p. 280.
- Gasket-seat cleaner. A. P. Gerald. No. 1,154,757; Sept. 28; Gaz. vol. 218; p. 939.
- Gate: See—
- Automatic gate.
- Butterfly-gate.
- Crossing-gate.
- Ditch-gate.
- Elevator-gate.
- Elevator safety-gate.
- Elevator-shaft gate.
- End-gate.
- Farm-gate.
- Feed-gate.
- Folding gate.
- Flume-gate.
- Fruit-bracing gate.
- Gangway-gate.
- Hay-rack end-gate.
- Head-gate.
- Railway-gate.
- Railway-crossing gate.
- Sliding gate.
- Spill-gate.
- Tank-discharge gate.
- Vehicle-gate.
- Water-gate.
- Wire gate.
- Gate. E. C. Andrews. No. 1,130,874; Mar. 9; Gaz. vol. 212; p. 393.
- Gate. W. T. Bentz and W. McKee. No. 1,128,839; Feb. 16; Gaz. vol. 211; p. 849.
- Gate. L. E. Birky. No. 1,123,835; Jan. 5; Gaz. vol. 210; p. 217.
- Gate. J. R. Carr. No. 1,132,438; Mar. 16; Gaz. vol. 212; p. 982.
- Gate. J. W. Clark. No. 1,139,163; May 11; Gaz. vol. 214; p. 546.
- Gate. H. L. Coats. No. 1,143,750; June 22; Gaz. vol. 215; p. 1032.
- Gate. C. W. Cox. No. 1,156,275; Oct. 12; Gaz. vol. 219; p. 353.
- Gate. B. E. Field. No. 1,129,386; Feb. 23; Gaz. vol. 211; p. 1078.
- Gate. O. L. Huffman. No. 1,153,847; Sept. 14; Gaz. vol. 218; p. 564.
- Gate. D. A. Ingersoll. No. 1,151,687; Aug. 31; Gaz. vol. 217; p. 1392.
- Gate. E. F. Lee. No. 1,123,766; Jan. 5; Gaz. vol. 210; p. 195.
- Gate. C. Miller. No. 1,153,560; Sept. 14; Gaz. vol. 218; p. 464.
- Gate. W. D. Miller. No. 1,131,408; Mar. 9; Gaz. vol. 212; p. 577.
- Gate. G. Mock. No. 1,136,157; Apr. 20; Gaz. vol. 213; p. 816.
- Gate. C. Petersen. No. 1,161,518; Nov. 23; Gaz. vol. 220; p. 1228.
- Gate. D. Powell. No. 1,144,564; June 29; Gaz. vol. 215; p. 1343.
- Gate. C. Rasmussen. No. 1,145,511; July 8; Gaz. vol. 216; p. 187.
- Gate. J. A. Renstrom. No. 1,164,396; Dec. 14; Gaz. vol. 221; p. 627.
- Gate. G. Rosenberger. No. 1,151,048; Aug. 24; Gaz. vol. 217; p. 1129.
- Gate. A. J. Ross. No. 1,132,389; Mar. 16; Gaz. vol. 212; p. 964.
- Gate. W. H. Sommer. No. 1,157,055; Oct. 19; Gaz. vol. 219; p. 659.
- Gate. E. R. and W. T. Speer. No. 1,146,360; July 13; Gaz. vol. 216; p. 504.
- Gate. W. B. Terry. No. 1,127,828; Feb. 9; Gaz. vol. 211; p. 450.
- Gate. E. S. Umphries. No. 1,131,184; Mar. 9; Gaz. vol. 212; p. 500.
- Gate. H. M. Wood. No. 1,129,938; Mar. 2; Gaz. vol. 212; p. 36.
- Gate and door fastener. L. T. Banks. No. 1,153,010; Sept. 7; Gaz. vol. 218; p. 231.
- Gate-closer, Spring-actuated. H. E. Robleson. No. 1,135,324; Apr. 13; Gaz. vol. 213; p. 483.
- Gate-closing device. B. Gold. No. 1,144,899; June 29; Gaz. vol. 215; p. 1459.
- Gate-fastening. F. B. Clapcott. No. 1,136,102; Apr. 20; Gaz. vol. 213; p. 796.
- Gate for locks, weirs, and the like. C. Bonzanigo. No. 1,136,765; Apr. 20; Gaz. vol. 213; p. 1033.
- Gate for wire fencing. J. W. Page. No. 1,132,792; Mar. 23; Gaz. vol. 212; p. 1161.
- Gate-hanger. J. Stutler, Sr. No. 1,124,550; Jan. 12; Gaz. vol. 210; p. 516.
- Gate-hanger. A. Walker. No. 1,148,416; July 27; Gaz. vol. 216; p. 1274.
- Gate-locking mechanism, Revolving. W. J. Pierson and H. W. Lynch. No. 1,131,546; Mar. 9; Gaz. vol. 212; p. 625.
- Gate mechanism. E. P. Jones. No. 1,160,290; Nov. 16; Gaz. vol. 220; p. 746.
- Gate-opener. J. A. Stephenson. No. 1,160,339; Nov. 16; Gaz. vol. 220; p. 763.
- Gate operating and locking means. F. Hoffman. No. 1,129,867; Mar. 2; Gaz. vol. 212; p. 12.
- Gate-operating attachment. J. N. Tidd. No. 1,134,563; Apr. 6; Gaz. vol. 213; p. 176.
- Gate-operating device. F. H. Doering. No. 1,133,431; Mar. 30; Gaz. vol. 212; p. 1427.
- Gate-operating device. O. U. Peterson. No. 1,149,406; Aug. 10; Gaz. vol. 217; p. 430.
- Gate-operating means. F. A. Duffe. No. 1,160,393; Nov. 16; Gaz. vol. 220; p. 781.
- Gate-operating means. S. Hildin. No. 1,165,172; Dec. 21; Gaz. vol. 221; p. 939.
- Gate-operating means. E. H. Kotila. No. 1,154,782; Sept. 28; Gaz. vol. 218; p. 947.
- Gate-operating means. L. C. and G. A. Peterson. No. 1,133,574; Mar. 30; Gaz. vol. 212; p. 1478.
- Gate-operating means. B. G. Sewell. No. 1,165,544; Dec. 28; Gaz. vol. 221; p. 1105.
- Gate-operating means. M. A. Stickley. No. 1,141,849; June 1; Gaz. vol. 215; p. 265.
- Gate-operating means. A. Ulch. No. 1,148,638; Aug. 3; Gaz. vol. 217; p. 56.
- Gate-operating mechanism. M. M. Bordson. No. 1,132,066; Mar. 16; Gaz. vol. 212; p. 846.
- Gate-operating mechanism. A. J. Gurney. No. 1,141,627; June 1; Gaz. vol. 215; p. 192.
- Gate-operating mechanism. M. C. Supan. No. 1,162,954; Dec. 7; Gaz. vol. 221; p. 76.

Alphabetical list of inventions—Continued.

- Gate-operator. A. W. Lightburne. No. 1,156,161; Oct. 12; Gaz. vol. 219; p. 317.
- Gate or door fastening. E. Matthews. No. 1,131,403; Mar. 9; Gaz. vol. 212; p. 576.
- Gates, Construction of. J. D. Terstegge. No. 1,153,877; Sept. 14; Gaz. vol. 218; p. 575.
- Gates, Locking-bar for. J. Mueller. No. 1,141,479; June 1; Gaz. vol. 215; p. 141.
- Gathering and banding machine. C. F. Smith. No. 1,123,606; Jan. 5; Gaz. vol. 210; p. 140.
- Gathering-irons, Production of formed blanks upon. B. D. Chamberlin. No. 1,148,213; July 27; Gaz. vol. 216; p. 1202.
- Gear. B. W. Burtzell. No. 1,146,306; July 13; Gaz. vol. 216; p. 485.
- Gear. C. E. Derr. No. 1,141,043; May 25; Gaz. vol. 214; p. 1275.
- Gear. H. L. Hudson. No. 1,163,925; Dec. 14; Gaz. vol. 221; p. 462.
- Gear. H. L. Hudson. No. 1,163,926; Dec. 14; Gaz. vol. 221; p. 463.
- Gear. J. Kennedy. No. 1,144,137; June 22; Gaz. vol. 215; p. 1168.
- Gear. J. L. Kunz and H. S. Cantovitz. No. 1,147,805; July 27; Gaz. vol. 216; p. 1056.
- Gear. J. Loncar. No. 1,144,554; June 29; Gaz. vol. 215; p. 1340.
- Gear, Ball-bearing. F. Neubauer. No. 1,164,847; Dec. 21; Gaz. vol. 221; p. 825.
- Gear-blanks, Machine for cutting spiral teeth on conical. R. B. Weaver. No. 1,133,516; Mar. 30; Gaz. vol. 212; p. 1457.
- Gear-box. J. H. Smith and C. Nuttall. No. 1,164,419; Dec. 14; Gaz. vol. 221; p. 634.
- Gear casing, Transmission-. D. D. Sternbergh. No. 1,143,661; June 22; Gaz. vol. 215; p. 1002.
- Gear, Change-speed. V. Lancia. No. 1,128,694; Feb. 16; Gaz. vol. 211; p. 798.
- Gear, Compensating. J. W. Nowak. No. 1,162,305; Nov. 30; Gaz. vol. 220; p. 1548.
- Gear-controller mechanism. H. A. Myers. No. 1,148,528; Aug. 3; Gaz. vol. 217; p. 16.
- Gear-cutting apparatus, Worm-. F. W. Lancaster. No. 1,128,613; Feb. 16; Gaz. vol. 211; p. 771.
- Gear-cutting machine. F. Burgess. No. 1,143,570; June 15; Gaz. vol. 215; p. 946.
- Gear-cutting machine. A. R. Murray. No. 1,138,005; May 4; Gaz. vol. 214; p. 99.
- Gear-cutting machine. J. A. Svensson. No. 1,143,602; June 15; Gaz. vol. 215; p. 958.
- Gear-cutting machine. M. Tibbetts. No. 1,140,012; May 18; Gaz. vol. 214; p. 880.
- Gear-cutting machine. H. D. Williams. No. 1,134,711; Apr. 6; Gaz. vol. 213; p. 230.
- Gear-cutting machines, Operating mechanism for. J. Buck. No. 1,163,503; Dec. 7; Gaz. vol. 221; p. 268.
- Gear, Differential. T. H. Sparks. No. 1,165,915; Dec. 28; Gaz. vol. 221; p. 1236.
- Gear, Drive and reverse. O. T. Pedersen. No. 1,165,019; Dec. 21; Gaz. vol. 221; p. 884.
- Gear, Driving-. C. S. Burton. No. 1,147,303; July 20; Gaz. vol. 216; p. 853.
- Gear, Flexible. K. Alquist. No. 1,141,098; June 1; Gaz. vol. 215; p. 4.
- Gear, Fluid change and reversing. H. Lentz. No. 1,128,010; Feb. 9; Gaz. vol. 211; p. 513.
- Gear, Fluid change and reversing. H. Lentz. No. 1,156,015; Oct. 5; Gaz. vol. 219; p. 239.
- Gear for controlling electrically and by hand devices placed at a distance, Double. V. Locarni. No. 1,135,596; Apr. 13; Gaz. vol. 213; p. 579.
- Gear-grinding machine. R. Reinecker and M. Schönleber. No. 1,150,535; Aug. 17; Gaz. vol. 217; p. 894.
- Gear, Hydraulic variable-speed. R. R. Moreno. No. 1,159,980; Nov. 9; Gaz. vol. 220; p. 586.
- Gear indicator, Transmission-. F. W. Woodhull. No. 1,161,572; Nov. 23; Gaz. vol. 220; p. 1247.
- Gear lubrication. C. V. Kerr. No. 1,132,947; Mar. 23; Gaz. vol. 212; p. 1218.
- Gear, Means for controlling fluid-transmission. H. Lentz. No. 1,133,867; Mar. 30; Gaz. vol. 212; p. 1534.
- Gear mechanism. D. Applegate. No. 1,158,882; Nov. 2; Gaz. vol. 220; p. 167.
- Gear mechanism. S. Halcin. No. 1,157,936; Oct. 26; Gaz. vol. 219; p. 1030.
- Gear mechanism, Change-. G. A. Eddy. (Reissue.) No. 1,3864; Jan. 12; Gaz. vol. 210; p. 687.
- Gear mechanism, Changeable-speed-. H. L. Schenck. No. 1,156,102; Oct. 12; Gaz. vol. 219; p. 297.
- Gear mechanism for motor road-vehicles, Change-speed. F. Devés. No. 1,158,455; Nov. 2; Gaz. vol. 220; p. 16.
- Gear, Motion-transmission. G. Heeley. No. 1,148,227; July 27; Gaz. vol. 216; p. 1206.
- Gear, Power-transmission. O. E. Wooldridge. No. 1,141,030; May 25; Gaz. vol. 214; p. 1270.
- Gear, Reversing-. J. Ferrer and E. Alonso. No. 1,160,058; Nov. 9; Gaz. vol. 220; p. 610.
- Gear set, Six-speed combination. I. D. Spangler. No. 1,137,547; Apr. 27; Gaz. vol. 213; p. 1340.
- Gear-shift device. J. F. and H. E. Dodge. No. 1,163,648; Dec. 14; Gaz. vol. 221; p. 363.
- Gear-shifter, Automatic. A. N. Adams. No. 1,138,719; May 11; Gaz. vol. 214; p. 387.
- Gear-shifting device. G. T. Hanchett. No. 1,152,809; Sept. 7; Gaz. vol. 218; p. 157.
- Gear-shifting device, Transmission-. G. De Witt. No. 1,123,857; Jan. 5; Gaz. vol. 210; p. 225.
- Gear-shifting lever, Detachable. H. S. Cass. No. 1,156,272; Oct. 12; Gaz. vol. 219; p. 353.
- Gear-shifting mechanism. F. Johnson. No. 1,156,405; Oct. 12; Gaz. vol. 219; p. 401.
- Gear-shifting mechanism. A. K. Kusebauch. No. 1,159,505; Nov. 9; Gaz. vol. 220; p. 414.
- Gear-shifting mechanism. A. F. Masury. No. 1,147,877; July 27; Gaz. vol. 216; p. 1082.
- Gear-shifting mechanism. C. B. Mills. No. 1,159,524; Nov. 9; Gaz. vol. 220; p. 421.
- Gear-shifting mechanism. S. K. Montgomery. No. 1,127,664; Feb. 9; Gaz. vol. 211; p. 387.
- Gear-shifting mechanism. E. O. Walser. No. 1,138,914; May 11; Gaz. vol. 214; p. 457.
- Gear-shifting mechanism and lock therefor. C. J. Blasingame. No. 1,166,318; Dec. 28; Gaz. vol. 221; p. 1382.
- Gear, Speed-changing. E. M. and A. G. Rayburn. No. 1,138,415; May 4; Gaz. vol. 214; p. 245.
- Gear, such as valve mechanism, Distribution-. A. Lafitte. No. 1,138,960; May 11; Gaz. vol. 214; p. 473.
- Gear-teeth, Curved. P. Böttcher. No. 1,154,840; Sept. 28; Gaz. vol. 218; p. 966.
- Gear, Transmission-. A. Johnston. No. 1,136,342; Apr. 20; Gaz. vol. 213; p. 882.
- Gear, Transmission-. T. S. Patterson. No. 1,129,720; Feb. 23; Gaz. vol. 211; p. 1190.
- Gear, Variable-speed. M. A. O'Connor. No. 1,142,051; June 8; Gaz. vol. 215; p. 375.
- Gear-wheel. V. Biela. No. 1,142,661; June 8; Gaz. vol. 215; p. 589.
- Gear-wheel. J. Froelich. No. 1,159,486; Nov. 9; Gaz. vol. 220; p. 408.
- Gear-wheel. G. H. Wilson. No. 1,165,560; Dec. 28; Gaz. vol. 221; p. 1111.
- Gear-wheel, Roller. G. H. Willson. No. 1,140,427; May 25; Gaz. vol. 214; p. 1060.
- Gear-wheel, Safety. F. L. Morse. No. 1,160,311; Nov. 16; Gaz. vol. 220; p. 754.
- Gear-wheels, Machine for cutting miter and bevel. J. Buck. No. 1,143,498; June 15; Gaz. vol. 215; p. 921.
- Gear-wheels, Machine for cutting the teeth of straight-spur. W. E. Sykes. No. 1,165,214; Dec. 21; Gaz. vol. 221; p. 954.
- Gear-wheels, Method of and apparatus for cutting the teeth of. R. Reinecker. No. 1,140,610; May 25; Gaz. vol. 214; p. 1125.
- Gears, Cutting worm-. A. Benson. No. 1,131,198; Mar. 9; Gaz. vol. 212; p. 505.
- Gears, Manufacturing elastic helical. E. H. Farquhar. No. 1,166,402; Dec. 28; Gaz. vol. 221; p. 1412.
- Gears, Means for deaerating and cooling the driving medium of hydraulic. H. Lentz. No. 1,164,105; Dec. 14; Gaz. vol. 221; p. 526.
- Gears, pulleys, &c., from shafts, Means for drawing. J. R. Ridlon. No. 1,131,868; Mar. 16; Gaz. vol. 212; p. 775.
- Gears, Securing device for. A. F. Masury. No. 1,143,720; June 22; Gaz. vol. 215; p. 1022.
- Gearing. K. Alquist. No. 1,165,827; Dec. 28; Gaz. vol. 221; p. 1205.
- Gearing. K. Alquist. No. 1,165,830; Dec. 28; Gaz. vol. 221; p. 1206.
- Gearing. V. G. Apple. No. 1,144,092; June 22; Gaz. vol. 215; p. 1152.
- Gearing. V. G. Apple. No. 1,148,884; Aug. 3; Gaz. vol. 217; p. 142.
- Gearing. E. H. Avery. No. 1,150,568; Aug. 17; Gaz. vol. 217; p. 907.
- Gearing. A. Bailey. No. 1,136,392; Apr. 20; Gaz. vol. 213; p. 901.
- Gearing. O. M. Bergstrom. No. 1,137,735; May 4; Gaz. vol. 214; p. 6.
- Gearing. J. Boyer. No. 1,149,333; Aug. 10; Gaz. vol. 217; p. 406.
- Gearing. A. F. Bronner and A. A. Quick. No. 1,144,807; June 29; Gaz. vol. 215; p. 1428.
- Gearing. H. E. Bullock. No. 1,156,055; Oct. 12; Gaz. vol. 219; p. 280.
- Gearing. C. Contal. No. 1,129,457; Feb. 23; Gaz. vol. 211; p. 1103.
- Gearing. G. F. Deady and G. H. Holland. No. 1,144,324; June 22; Gaz. vol. 215; p. 1234.
- Gearing. H. E. Dey. No. 1,158,456; Nov. 2; Gaz. vol. 220; p. 16.
- Gearing. H. E. Dey. No. 1,158,457; Nov. 2; Gaz. vol. 220; p. 16.
- Gearing. H. E. Dey. No. 1,158,458; Nov. 2; Gaz. vol. 220; p. 17.
- Gearing. M. Drolet. No. 1,129,280; Feb. 23; Gaz. vol. 211; p. 1040.
- Gearing. O. M. Edwards. No. 1,124,116; Jan. 5; Gaz. vol. 210; p. 312.
- Gearing. J. Eblin. No. 1,161,463; Nov. 23; Gaz. vol. 220; p. 1209.
- Gearing. S. I. Fekete. No. 1,164,080; Dec. 14; Gaz. vol. 221; p. 517.

- Gearing, G. Fornaca. No. 1,138,098; May 4; Gaz. vol. 214; p. 133.
- Gearing, E. L. Gale, Sr. No. 1,140,369; May 25; Gaz. vol. 214; p. 1038.
- Gearing, G. F. Geb. No. 1,134,733; Apr. 6; Gaz. vol. 213; p. 238.
- Gearing, W. H. George. No. 1,154,006; Sept. 21; Gaz. vol. 218; p. 652.
- Gearing, W. H. George. No. 1,162,764; Dec. 7; Gaz. vol. 221; p. 11.
- Gearing, J. H. Gilman. No. 1,125,838; Jan. 19; Gaz. vol. 210; p. 1010.
- Gearing, W. A. Greaves. No. 1,162,857; Dec. 7; Gaz. vol. 221; p. 43.
- Gearing, E. R. Greer and A. Krieg. No. 1,146,564; July 13; Gaz. vol. 216; p. 578.
- Gearing, M. R. Hutchison. No. 1,131,703; Mar. 16; Gaz. vol. 212; p. 714.
- Gearing, J. P. Jakobsen and G. O. Krebs. No. 1,128,147; Feb. 9; Gaz. vol. 211; p. 561.
- Gearing, A. C. Johnson. No. 1,149,160; Aug. 3; Gaz. vol. 217; p. 237.
- Gearing, G. Joos. No. 1,143,280; June 15; Gaz. vol. 215; p. 846.
- Gearing, W. B. Lane. No. 1,134,541; Apr. 6; Gaz. vol. 213; p. 166.
- Gearing, G. H. Marsh. No. 1,128,344; Feb. 16; Gaz. vol. 211; p. 679.
- Gearing, C. J. Marth. No. 1,139,695; May 18; Gaz. vol. 214; p. 768.
- Gearing, H. W. McNeil. No. 1,157,167; Oct. 19; Gaz. vol. 219; p. 699.
- Gearing, C. H. Norton. No. 1,152,434; Sept. 7; Gaz. vol. 218; p. 18.
- Gearing, J. R. Pearson. No. 1,148,795; Aug. 3; Gaz. vol. 217; p. 112.
- Gearing, R. H. Rosenberg. No. 1,164,871; Dec. 21; Gaz. vol. 221; p. 832.
- Gearing, A. Ryckman. No. 1,139,808; May 18; Gaz. vol. 214; p. 807.
- Gearing, W. A. Salter. No. 1,137,026; Apr. 27; Gaz. vol. 213; p. 1163.
- Gearing, R. C. Scherling. No. 1,151,220; Aug. 24; Gaz. vol. 217; p. 1188.
- Gearing, S. E. Schroeder. No. 1,153,715; Sept. 14; Gaz. vol. 218; p. 517.
- Gearing, T. H. Siddall. No. 1,160,537; Nov. 16; Gaz. vol. 220; p. 833.
- Gearing, T. J. Smith. No. 1,140,078; May 18; Gaz. vol. 214; p. 904.
- Gearing, F. Snow. No. 1,156,377; Oct. 12; Gaz. vol. 219; p. 391.
- Gearing, C. W. Swanson. No. 1,156,564; Oct. 12; Gaz. vol. 219; p. 457.
- Gearing, W. B. Templeton. No. 1,143,558; June 15; Gaz. vol. 215; p. 942.
- Gearing, F. E. Ten Eyck. No. 1,134,358; Apr. 6; Gaz. vol. 213; p. 100.
- Gearing, H. P. Townsend. No. 1,155,847; Oct. 5; Gaz. vol. 219; p. 183.
- Gearing, F. H. Walker. No. 1,156,869; Oct. 12; Gaz. vol. 219; p. 564.
- Gearing, R. B. Weaver. No. 1,136,069; Apr. 20; Gaz. vol. 213; p. 785.
- Gearing, E. R. Whitney. No. 1,126,602; Jan. 26; Gaz. vol. 210; p. 1320.
- Gearing, F. V. Widger. No. 1,154,555; Sept. 21; Gaz. vol. 218; p. 840.
- Gearing, H. E. Williamson. No. 1,148,881; Aug. 3; Gaz. vol. 217; p. 141.
- Gearing, W. W. Winger. (Reissue.) No. 1,397,979; Sept. 14; Gaz. vol. 218; p. 576.
- Gearing and axle construction, Compensating transmission-. A. H. Fetzner. No. 1,128,429; Feb. 16; Gaz. vol. 211; p. 707.
- Gearing and motor control, Change-speed. F. F. Stratton. No. 1,149,419; Aug. 10; Gaz. vol. 217; p. 436.
- Gearing apparatus, Transmission-cone-. E. F. Bubb. No. 1,156,883; Oct. 19; Gaz. vol. 219; p. 597.
- Gearing, Automatically-variable. A. R. Monro. No. 1,139,433; May 11; Gaz. vol. 214; p. 640.
- Gearing, Belt-. C. F. Hotchkiss. No. 1,143,583; June 15; Gaz. vol. 215; p. 951.
- Gearing, Bevel-. C. P. Colburn. No. 1,160,975; Nov. 16; Gaz. vol. 220; p. 989.
- Gearing, Change-. E. G. Johanson. No. 1,128,684; Feb. 16; Gaz. vol. 211; p. 795.
- Gearing, Change-speed. E. Fuchs. No. 1,143,044; June 15; Gaz. vol. 215; p. 762.
- Gearing, Change-speed. P. Janzon. No. 1,130,169; Mar. 2; Gaz. vol. 212; p. 113.
- Gearing, Change-speed. C. B. King. No. 1,134,681; Apr. 6; Gaz. vol. 213; p. 218.
- Gearing, Change-speed. V. H. McDougal. No. 1,147,524; July 20; Gaz. vol. 216; p. 932.
- Gearing, Change-speed. H. T. Thomas. No. 1,131,291; Mar. 9; Gaz. vol. 212; p. 537.
- Gearing, Change-speed and reversing. F. H. Royce. No. 1,132,390; Mar. 16; Gaz. vol. 212; p. 964.
- Gearing, Changeable-speed. W. F. Hunt. No. 1,143,048; June 15; Gaz. vol. 215; p. 763.
- Gearing, Changeable-speed. E. H. Pearsall. No. 1,161,962; Nov. 30; Gaz. vol. 220; p. 1429.
- Gearing, Combined friction and spur. A. Sundh. No. 1,127,313; Feb. 2; Gaz. vol. 211; p. 226.
- Gearing, Compensating. J. F. and E. B. Blakey. No. 1,134,665; Apr. 6; Gaz. vol. 213; p. 213.
- Gearing device and support therefor. J. R. Tibbles and T. S. Kilgore. No. 1,164,682; Dec. 21; Gaz. vol. 221; p. 767.
- Gearing, Differential. N. E. Bunting. No. 1,158,439; Nov. 2; Gaz. vol. 220; p. 10.
- Gearing, Differential. R. W. De Witt. No. 1,145,295; July 6; Gaz. vol. 216; p. 111.
- Gearing, Differential. M. J. Deegan. No. 1,162,754; Dec. 7; Gaz. vol. 221; p. 8.
- Gearing, Differential. J. A. Lang. No. 1,154,641; Sept. 28; Gaz. vol. 218; p. 899.
- Gearing, Differential. E. M. Long. No. 1,161,057; Nov. 23; Gaz. vol. 220; p. 1063.
- Gearing, Differential. J. F. Parrott. No. 1,162,097; Nov. 30; Gaz. vol. 220; p. 1476.
- Gearing, Differential. A. J. Patch. No. 1,123,582; Jan. 5; Gaz. vol. 210; p. 131.
- Gearing, Differential. C. I. Spangler. No. 1,129,366; Feb. 23; Gaz. vol. 211; p. 1070.
- Gearing, Double-reduction. K. Alquist. No. 1,165,829; Dec. 28; Gaz. vol. 221; p. 1205.
- Gearing, Elastic. K. Alquist. No. 1,157,918; Oct. 26; Gaz. vol. 219; p. 1024.
- Gearing, Elastic helical. K. Alquist. No. 1,165,828; Dec. 28; Gaz. vol. 221; p. 1205.
- Gearing, Film-fel. G. R. Bowell. No. 1,160,970; Nov. 16; Gaz. vol. 220; p. 988.
- Gearing for centrifugal machine. G. W. Johansson and J. V. M. Risberg. No. 1,156,233; Oct. 12; Gaz. vol. 219; p. 339.
- Gearing for ensilage-machines. N. M. Brown. No. 1,136,650; Apr. 20; Gaz. vol. 213; p. 992.
- Gearing for feed mechanisms. E. T. Pollard. No. 1,146,814; July 20; Gaz. vol. 216; p. 684.
- Gearing for mechanical devices. J. W. Hughes. No. 1,123,747; Jan. 5; Gaz. vol. 210; p. 187.
- Gearing for motor-trucks, Hoisting-. F. Mueller. No. 1,138,004; May 4; Gaz. vol. 214; p. 98.
- Gearing for motor-vehicles, Differential. E. L. and M. Walter. No. 1,164,769; Dec. 21; Gaz. vol. 221; p. 797.
- Gearing for motor-vehicles, Differential. M. Walter. No. 1,164,770; Dec. 21; Gaz. vol. 221; p. 797.
- Gearing for motor-vehicles, Driving-. R. E. Twyford. No. 1,136,382; Apr. 20; Gaz. vol. 213; p. 897.
- Gearing for motor-vehicles, Frictional. R. F. Rogers. No. 1,147,268; July 20; Gaz. vol. 216; p. 842.
- Gearing for motor-vehicles, Transmission-. I. H. Pleukharp. No. 1,133,744; Mar. 30; Gaz. vol. 212; p. 1539.
- Gearing for portable power-tables. G. B. Keil. No. 1,137,862; May 4; Gaz. vol. 214; p. 43.
- Gearing for power-propelled vehicles, Change-speed. F. H. Royce. No. 1,149,408; Aug. 10; Gaz. vol. 217; p. 431.
- Gearing for shaft-speed indicators, Drive-. J. K. Stewart. No. 1,152,569; Sept. 7; Gaz. vol. 218; p. 70.
- Gearing for traction-engines, Detachable. G. H. Wilson. No. 1,136,302; Apr. 20; Gaz. vol. 213; p. 868.
- Gearing for tractors. J. G. Casteran. No. 1,138,452; May 4; Gaz. vol. 214; p. 257.
- Gearing, Friction-. G. A. Lambert. No. 1,125,132; Jan. 19; Gaz. vol. 210; p. 758.
- Gearing, Friction-. J. C. Martins. No. 1,130,527; Mar. 2; Gaz. vol. 212; p. 241.
- Gearing, Friction transmission-. J. B. Berstler. No. 1,129,629; Feb. 23; Gaz. vol. 211; p. 1163.
- Gearing, Frictional. W. H. Barkwill. No. 1,154,598; Sept. 28; Gaz. vol. 218; p. 883.
- Gearing, Frictional. L. L. Robertson. No. 1,129,018; Feb. 16; Gaz. vol. 211; p. 913.
- Gearing, Frictional variable-speed. J. C. Martins. No. 1,136,690; Apr. 20; Gaz. vol. 213; p. 1006.
- Gearing, Lever-actuated power-transmission. J. T. Daniel. No. 1,156,982; Oct. 19; Gaz. vol. 219; p. 633.
- Gearing, Locking device for change-speed. F. E. Sperry. No. 1,124,545; Jan. 12; Gaz. vol. 210; p. 514.
- Gearing-lubricator. T. Cholin. No. 1,156,664; Oct. 12; Gaz. vol. 219; p. 493.
- Gearing, Motion-augmenting pendulum-. H. L. Staley. No. 1,153,268; Sept. 14; Gaz. vol. 218; p. 357.
- Gearing, Muffled spur. A. Sundh. No. 1,127,312; Feb. 2; Gaz. vol. 211; p. 226.
- Gearing, Planetary. H. Hertzberg. No. 1,154,769; Sept. 28; Gaz. vol. 218; p. 942.
- Gearing, Planetary transmission-. H. Bartsch. No. 1,124,834; Jan. 12; Gaz. vol. 210; p. 618.
- Gearing, Power-transmission. V. G. Apple. No. 1,129,777; Feb. 23; Gaz. vol. 211; p. 1210.
- Gearing, Power-transmission. H. A. Waterman, L. C. Bradley, and W. K. Andrew. No. 1,157,133; Oct. 19; Gaz. vol. 219; p. 686.
- Gearing, Reduction-. C. H. Clark. No. 1,142,401; June 8; Gaz. vol. 215; p. 500.
- Gearing, Reduction-. G. Westinghouse. No. 1,136,072; Apr. 20; Gaz. vol. 213; p. 786.
- Gearing, Reduction-. G. Westinghouse. No. 1,136,189; Apr. 20; Gaz. vol. 213; p. 827.

Alphabetical list of inventions—Continued.

- Gearing, Resilient transmission. A. F. Dickey. No. 1,139,502; May 18; Gaz. vol. 214; p. 700.
- Gearing, Reversible counter-shaft. R. D. Jones. No. 1,152,735; Sept. 7; Gaz. vol. 218; p. 131.
- Gearing, Reversing. A. N. Adams. No. 1,138,718; May 11; Gaz. vol. 214; p. 387.
- Gearing, Speed-changing. J. E. Hinchman. No. 1,149,515; Aug. 10; Gaz. vol. 217; p. 469.
- Gearing, Speed-changing. J. H. McElroy. No. 1,165,426; Dec. 28; Gaz. vol. 221; p. 1065.
- Gearing, Speed-changing transmission. C. L. Howard. No. 1,157,001; Oct. 19; Gaz. vol. 219; p. 639.
- Gearing, Speed-reducing. J. Neill. No. 1,138,968; Mar. 11; Gaz. vol. 214; p. 476.
- Gearing, Speed-reducing. A. Sundh. No. 1,159,608; Nov. 9; Gaz. vol. 220; p. 452.
- Gearing, Spur. K. Alquist. No. 1,141,097; June 1; Gaz. vol. 215; p. 3.
- Gearing, Steerable drive. W. Schneckloth. No. 1,143,864; June 22; Gaz. vol. 215; p. 1071.
- Gearing, Steerable drive. W. Schneckloth. No. 1,160,958; Nov. 16; Gaz. vol. 220; p. 984.
- Gearing, Transmission. V. G. Apple. No. 1,133,784; Mar. 30; Gaz. vol. 212; p. 1553.
- Gearing, Transmission. J. H. Auble. No. 1,145,826; July 6; Gaz. vol. 216; p. 298.
- Gearing, Transmission. S. M. Balzer. No. 1,151,648; Aug. 31; Gaz. vol. 217; p. 1379.
- Gearing, Transmission. L. J. Campbell. No. 1,135,354; Apr. 13; Gaz. vol. 213; p. 493.
- Gearing, Transmission. L. E. Cryder. No. 1,137,703; Apr. 27; Gaz. vol. 213; p. 1399.
- Gearing, Transmission. P. C. Day. No. 1,151,762; Aug. 31; Gaz. vol. 217; p. 1418.
- Gearing, Transmission. G. W. Draper. No. 1,140,256; May 18; Gaz. vol. 214; p. 965.
- Gearing, Transmission. W. Ehrlich. No. 1,143,617; June 22; Gaz. vol. 215; p. 987.
- Gearing, Transmission. C. Eloesser. No. 1,140,890; May 25; Gaz. vol. 214; p. 1222.
- Gearing, Transmission. J. G. Faust. No. 1,144,184; June 22; Gaz. vol. 215; p. 1185.
- Gearing, Transmission. W. S. Harley. No. 1,137,134; Apr. 27; Gaz. vol. 213; p. 1203.
- Gearing, Transmission. R. H. Hemphill. No. 1,134,385; Apr. 6; Gaz. vol. 213; p. 110.
- Gearing, Transmission. E. J. Holze. No. 1,165,258; Dec. 21; Gaz. vol. 221; p. 969.
- Gearing, Transmission. C. P. Johnson. No. 1,150,433; Aug. 17; Gaz. vol. 217; p. 858.
- Gearing, Transmission. D. S. Leech and M. S. Evans. No. 1,141,563; June 1; Gaz. vol. 215; p. 170.
- Gearing, Transmission. C. W. Levalley. No. 1,151,022; Aug. 24; Gaz. vol. 217; p. 1120.
- Gearing, Transmission. C. W. Levalley. No. 1,151,482; Aug. 24; Gaz. vol. 217; p. 1274.
- Gearing, Transmission. C. W. Levalley. No. 1,151,483; Aug. 24; Gaz. vol. 217; p. 1274.
- Gearing, Transmission. C. W. Levalley. No. 1,151,484; Aug. 24; Gaz. vol. 217; p. 1275.
- Gearing, Transmission. C. W. Levalley. No. 1,151,485; Aug. 24; Gaz. vol. 217; p. 1275.
- Gearing, Transmission. B. Mayer. No. 1,147,528; July 20; Gaz. vol. 216; p. 933.
- Gearing, Transmission. H. C. McBrair. No. 1,125,358; Jan. 19; Gaz. vol. 210; p. 840.
- Gearing, Transmission. C. A. Miles. No. 1,155,601; Oct. 5; Gaz. vol. 219; p. 96.
- Gearing, Transmission. W. A. Millis. No. 1,141,813; June 1; Gaz. vol. 215; p. 254.
- Gearing, Transmission. C. E. Murphy and W. H. Sprague. No. 1,159,410; Nov. 9; Gaz. vol. 220; p. 380.
- Gearing, Transmission. R. A. Norling. No. 1,142,357; June 8; Gaz. vol. 215; p. 483.
- Gearing, Transmission. H. J. Notz. No. 1,148,710; Aug. 3; Gaz. vol. 217; p. 81.
- Gearing, Transmission. T. A. Schomburg. No. 1,127,528; Feb. 9; Gaz. vol. 211; p. 343.
- Gearing, Transmission. A. B. and C. C. Small. No. 1,156,938; Oct. 19; Gaz. vol. 219; p. 617.
- Gearing, Transmission. C. P. Snyder. No. 1,159,725; Nov. 9; Gaz. vol. 220; p. 493.
- Gearing, Transmission. A. B. Tognini. No. 1,127,945; Feb. 9; Gaz. vol. 211; p. 491.
- Gearing, Transmission. G. Westinghouse. No. 1,149,881; Aug. 10; Gaz. vol. 217; p. 602.
- Gearing, Transmission. J. L. Woodbridge. No. 1,125,243; Jan. 19; Gaz. vol. 210; p. 799.
- Gearing, Variable-speed. H. E. Blood. No. 1,154,365; Sept. 21; Gaz. vol. 218; p. 777.
- Gearing, Variable-speed. A. F. Bronner and A. A. Quick. No. 1,144,808; June 29; Gaz. vol. 215; p. 1429.
- Gearing, Variable-speed. J. W. Campbell. No. 1,133,837; Mar. 30; Gaz. vol. 212; p. 1572.
- Gearing, Variable-speed. L. E. Cowey. No. 1,124,111; Jan. 5; Gaz. vol. 210; p. 310.
- Gearing, Variable-speed. J. Dove-Smith. No. 1,155,898; Oct. 5; Gaz. vol. 219; p. 199.
- Gearing, Variable-speed. C. J. L. Moore. No. 1,124,783; Jan. 12; Gaz. vol. 210; p. 599.
- Gearing, Variable-speed. J. J. Myers. No. 1,132,603; Mar. 23; Gaz. vol. 212; p. 1090.
- Gearing, Variable-speed. P. D. Smith. No. 1,134,769; Apr. 6; Gaz. vol. 213; p. 251.
- Gearing, Variable-speed. E. W. Thomas. No. 1,124,974; Jan. 12; Gaz. vol. 210; p. 667.
- Gearing, Variable-speed belt. C. E. Tannewitz. No. 1,151,837; Aug. 31; Gaz. vol. 217; p. 1445.
- Gearing, Variable-speed-transmission. H. Maschek. No. 1,155,597; Oct. 5; Gaz. vol. 219; p. 94.
- Gearing, Worm. A. T. Bossert. No. 1,146,995; July 20; Gaz. vol. 216; p. 748.
- Gearing, Worm. C. Krumpholz and E. Pauer. No. 1,164,200; Dec. 14; Gaz. vol. 221; p. 557.
- Gearing, Yieldable. E. Anderson. No. 1,165,381; Dec. 28; Gaz. vol. 221; p. 1049.
- Gem-polishing machine. S. M. Schenkein. No. 1,132,882; Mar. 23; Gaz. vol. 212; p. 1193.
- Gem-polishing machine. S. M. Schenkein and O. P. R. Lehmann. No. 1,166,006; Dec. 28; Gaz. vol. 221; p. 1268.
- Gem-setting. U. O. Bashor. No. 1,131,593; Mar. 9; Gaz. vol. 212; p. 641.
- Gem-setting machine. H. E. Grabau. No. 1,135,576; Apr. 13; Gaz. vol. 213; p. 572.
- Gem-settings, Base or support for. H. Ackerman. No. 1,130,128; Mar. 2; Gaz. vol. 212; p. 99.
- Gems in holding-arbors, Means for placing. C. J. Coleman. No. 1,149,552; Aug. 10; Gaz. vol. 217; p. 482.
- Gems, Polishing. S. M. Schenkein. No. 1,132,881; Mar. 23; Gaz. vol. 212; p. 1193.
- Generative-organ appliance. L. B. Hart. No. 1,153,072; Sept. 7; Gaz. vol. 218; p. 250.
- Generator. *See—*
- | | |
|-----------------------------|-------------------------|
| Acetylene-generator. | Ignition-generator. |
| Electric generator. | Inductor-generator. |
| Electric-current generator. | Magneto-generator. |
| Electrical generator. | Magneto hand-generator. |
| Electroplating-generator. | Oxygen-generator. |
| Fluid-generator. | Ozone-generator. |
| Fluid-pressure generator. | Power-generator. |
| Gas-generator. | Pressure-generator. |
| Heat-generator. | Rectal generator. |
| Hydrocarbon-generator. | Steam-generator. |
| Hydrocarbon-vapor burner. | Vapor-generator. |
- Generator. S. F. Pierce. No. 1,130,842; Mar. 9; Gaz. vol. 212; p. 383.
- Generator and timer-distributor mounting, Combined. J. H. Richards. No. 1,142,056; June 8; Gaz. vol. 215; p. 377.
- Generators, Adapter for axle-driven. W. L. Bliss. No. 1,125,944; Jan. 26; Gaz. vol. 210; p. 1080.
- Generators, Battery-controlling device for axle-driven. R. C. Lanphier and E. M. Fitz. No. 1,152,822; Sept. 7; Gaz. vol. 218; p. 163.
- Generators, Connections for continuous-current. L. Schön. No. 1,147,123; July 20; Gaz. vol. 216; p. 791.
- Generators, Hand-hole cover for. W. L. Bliss. No. 1,157,497; Oct. 19; Gaz. vol. 219; p. 816.
- Germ or insects, Composition of matter for destroying. J. G. Hill. No. 1,141,961; June 8; Gaz. vol. 215; p. 342.
- Gimp or plaited cord machine. J. G. Smith and H. Swarting. No. 1,159,286; Nov. 2; Gaz. vol. 220; p. 304.
- Gin-saw cleaner. M. I. Flowers and W. S. Lynch. No. 1,140,669; May 25; Gaz. vol. 214; p. 1145.
- Girder-form support. C. M. Markham. No. 1,128,809; Feb. 16; Gaz. vol. 211; p. 838.
- Girdle. J. W. Schloss. No. 1,130,202; Mar. 2; Gaz. vol. 212; p. 125.
- Glare-screen. J. J. Richards, Jr. No. 1,158,005; Oct. 26; Gaz. vol. 219; p. 1054.
- Glass. *See—*
- | | |
|--------------------------|--------------------|
| Drinking-glass. | Observation-glass. |
| Gage-glass. | Reading-glass. |
| Imitation stained glass. | Sight-glass. |
- Glass. O. Schott. No. 1,143,732; June 22; Gaz. vol. 215; p. 1025.
- Glass. E. C. Sullivan and W. C. Taylor. No. 1,151,911; Aug. 31; Gaz. vol. 217; p. 1471.
- Glass and batch for making the same. H. A. Schnellbach. No. 1,143,788; June 22; Gaz. vol. 215; p. 1044.
- Glass and its manufacture, Reinforced. E. Benedictus. No. 1,128,094; Feb. 9; Gaz. vol. 211; p. 543.
- Glass and making same. H. M. Brookfield. No. 1,136,504; Apr. 20; Gaz. vol. 213; p. 941.
- Glass and marble smoother, rounder, and beveler, Plate. G. R. Teschel. No. 1,136,296; Apr. 20; Gaz. vol. 213; p. 866.
- Glass and the like, Manufacture of white enamel. I. Kreidl. No. 1,128,691; Feb. 16; Gaz. vol. 211; p. 797.
- Glass articles, Apparatus for pressing. W. J. Miller. No. 1,130,918; Mar. 9; Gaz. vol. 212; p. 409.
- Glass articles, Apparatus for pressing. W. J. Miller. No. 1,130,919; Mar. 9; Gaz. vol. 212; p. 410.
- Glass articles, Apparatus for pressing. W. J. Miller. No. 1,130,920; Mar. 9; Gaz. vol. 212; p. 410.
- Glass articles, Apparatus for the production of. B. D. Chamberlin. No. 1,124,698; Jan. 12; Gaz. vol. 210; p. 569.
- Glass articles, Apparatus for the production of blown. B. D. Chamberlin. No. 1,124,702; Jan. 12; Gaz. vol. 210; p. 571.

Alphabetical list of inventions—Continued.

- Glass articles, Drawing hollow. F. L. Bishop. No. 1,142,139; June 8; Gaz. vol. 215; p. 407.
- Glass articles, Machine for making hollow. R. Williamson. No. 1,147,695; July 20; Gaz. vol. 216; p. 992.
- Glass articles, Machine for the manufacture of blown. B. D. Chamberlin. No. 1,124,699; Jan. 12; Gaz. vol. 210; p. 570.
- Glass articles, Machine for the manufacture of blown. B. D. Chamberlin. No. 1,124,701; Jan. 12; Gaz. vol. 210; p. 571.
- Glass articles, Manufacture of hollow. T. C. Steimer. No. 1,165,212; Dec. 21; Gaz. vol. 221; p. 953.
- Glass articles, Pressing. T. C. Steimer. No. 1,125,760; Jan. 19; Gaz. vol. 210; p. 983.
- Glass articles, Process and apparatus for treating pressed. H. A. Heupel. No. 1,134,200; Apr. 6; Gaz. vol. 213; p. 42.
- Glass articles, Production of blown. B. D. Chamberlin. No. 1,148,215; July 27; Gaz. vol. 216; p. 1203.
- Glass-baits, Cleaning. R. L. Frink. No. 1,159,579; Nov. 9; Gaz. vol. 220; p. 440.
- Glass, Batch for semi-opaque, semi-translucent. H. C. Stiefel. No. 1,153,353; Sept. 14; Gaz. vol. 218; p. 388.
- Glass-blank-pressing mechanism. J. Rau. No. 1,159,992; Nov. 9; Gaz. vol. 220; p. 589.
- Glass-blowing apparatus. P. J. Paquet. No. 1,140,314; May 18; Gaz. vol. 214; p. 984.
- Glass-blowing machine. B. D. Chamberlin. No. 1,137,304; Apr. 27; Gaz. vol. 213; p. 1265.
- Glass-blowing machine. E. G. Chase. No. 1,162,337; Nov. 30; Gaz. vol. 220; p. 1559.
- Glass-blowing machine. V. M. Dorsey. No. 1,156,868; Oct. 12; Gaz. vol. 219; p. 564.
- Glass-blowing machine. V. M. Dorsey. No. 1,163,983; Dec. 14; Gaz. vol. 221; p. 481.
- Glass-blowing machine. N. W. Hartman. No. 1,155,809; Oct. 5; Gaz. vol. 219; p. 169.
- Glass-blowing machine. C. E. Volk. No. 1,133,764; Mar. 30; Gaz. vol. 212; p. 1546.
- Glass-blowing-machine mold. B. D. Chamberlin. No. 1,156,057; Oct. 12; Gaz. vol. 219; p. 280.
- Glass-blowing-machine mold. B. D. Chamberlin. No. 1,156,058; Oct. 12; Gaz. vol. 219; p. 281.
- Glass-blowing machines, Blowpipe-receiving device for. B. D. Chamberlin. No. 1,124,700; Jan. 12; Gaz. vol. 210; p. 570.
- Glass-blowing machines, Electrically-controlled blowing-head for. O. A. Hanford. No. 1,123,523; Jan. 5; Gaz. vol. 210; p. 111.
- Glass-blowing machines, Gather-actuated controller for. O. A. Hanford. No. 1,123,524; Jan. 5; Gaz. vol. 210; p. 112.
- Glass-blowing machines, Gather-actuated controller for. O. A. Hanford. No. 1,123,525; Jan. 5; Gaz. vol. 210; p. 112.
- Glass-blowing machines, Mold mechanism for. B. D. Chamberlin. No. 1,156,056; Oct. 12; Gaz. vol. 219; p. 280.
- Glass-blowing mold. B. D. Chamberlin. No. 1,156,756; Oct. 12; Gaz. vol. 219; p. 523.
- Glass-blowing pipes, Take-off mechanism for. B. D. Chamberlin. No. 1,156,858; Oct. 12; Gaz. vol. 219; p. 561.
- Glass-bottle-blowing machine. A. E. Clegg. No. 1,133,708; Mar. 30; Gaz. vol. 212; p. 1528.
- Glass-bottle-making machine. A. E. Clegg. No. 1,132,071; Mar. 16; Gaz. vol. 212; p. 848.
- Glass casket. J. W. De Camp. No. 1,123,856; Jan. 5; Gaz. vol. 210; p. 225.
- Glass-chipping tool. W. Spangler. No. 1,162,815; Dec. 7; Gaz. vol. 221; p. 30.
- Glass-cleaner. J. Kugel. No. 1,142,716; June 8; Gaz. vol. 215; p. 606.
- Glass, Composition for making. O. Schott. No. 1,130,767; Mar. 9; Gaz. vol. 212; p. 357.
- Glass, Corrugated wire. W. Cox and A. Shuman. No. 1,156,214; Oct. 12; Gaz. vol. 219; p. 333.
- Glass-cutter. F. Klensk. No. 1,141,192; June 1; Gaz. vol. 215; p. 36.
- Glass-cutter. J. Lambert. No. 1,146,176; July 13; Gaz. vol. 216; p. 441.
- Glass-cutter. W. L. Monroe. No. 1,124,784; Jan. 12; Gaz. vol. 210; p. 599.
- Glass-cutter. L. P. Smith. No. 1,134,292; Apr. 6; Gaz. vol. 213; p. 76.
- Glass-cutter. F. R. Woodward. No. 1,129,374; Feb. 23; Gaz. vol. 211; p. 1073.
- Glass-cutter, Magazine. F. R. Woodward. No. 1,134,307; Apr. 6; Gaz. vol. 213; p. 82.
- Glass-cutting machine. H. Falvey. No. 1,140,143; May 18; Gaz. vol. 214; p. 927.
- Glass-cutting machine. H. D. Madden. No. 1,123,336; Jan. 5; Gaz. vol. 210; p. 48.
- Glass-cutting machine. A. L. Milentz. No. 1,152,653; Sept. 7; Gaz. vol. 218; p. 101.
- Glass-cutting machine. H. W. and E. M. Morris. No. 1,139,054; May 11; Gaz. vol. 214; p. 508.
- Glass-cutting tool. L. Rothholz. No. 1,161,889; Nov. 30; Gaz. vol. 220; p. 1402.
- Glass cylinders, Apparatus for splitting. H. F. Hitner. No. 1,131,134; Mar. 9; Gaz. vol. 212; p. 482.
- Glass cylinders, Bait for drawing. G. E. Moore. No. 1,138,885; May 11; Gaz. vol. 214; p. 448.
- Glass cylinders, Capping-off apparatus for. E. H. Thompson and J. E. Kajut. No. 1,143,242; June 15; Gaz. vol. 215; p. 834.
- Glass cylinders, Device for capping. A. W. Bright. No. 1,130,373; Mar. 2; Gaz. vol. 212; p. 185.
- Glass cylinders, Device for capping off. C. Landsheet. No. 1,163,618; Dec. 7; Gaz. vol. 221; p. 809.
- Glass cylinders, Device for forming. U. Houze. No. 1,132,270; Mar. 16; Gaz. vol. 212; p. 922.
- Glass cylinders, Drawing. F. L. O. Wadsworth. No. 1,161,911; Nov. 30; Gaz. vol. 220; p. 1410.
- Glass cylinders, Drawing. F. L. O. Wadsworth. No. 1,166,025; Dec. 28; Gaz. vol. 221; p. 1273.
- Glass cylinders for window-glass, Device for forming. U. Houze. No. 1,128,269; Feb. 9; Gaz. vol. 211; p. 602.
- Glass device, Antifrost. L. W. Meuler. No. 1,124,778; Jan. 12; Gaz. vol. 210; p. 598.
- Glass, Drawing. C. P. Byrnes. No. 1,141,932; June 8; Gaz. vol. 215; p. 334.
- Glass, Drawing. H. K. Hitchcock. No. 1,163,754; Dec. 14; Gaz. vol. 221; p. 403.
- Glass, Drawing. R. S. Pease. No. 1,136,362; Apr. 20; Gaz. vol. 213; p. 890.
- Glass-drawing. R. S. Pease. No. 1,152,833; Sept. 7; Gaz. vol. 218; p. 167.
- Glass-drawing apparatus. W. R. Campbell. No. 1,143,104; June 15; Gaz. vol. 215; p. 784.
- Glass-drawing apparatus. W. L. Clause. No. 1,123,684; Jan. 5; Gaz. vol. 210; p. 166.
- Glass-drawing apparatus. H. E. De Vaughn. No. 1,160,864; Nov. 16; Gaz. vol. 220; p. 950.
- Glass-drawing apparatus. E. Guelff, L. S. Dunn, and V. Thenis. No. 1,134,192; Apr. 6; Gaz. vol. 213; p. 39.
- Glass-drawing apparatus. H. F. Hitner. No. 1,138,870; May 11; Gaz. vol. 214; p. 442.
- Glass-drawing apparatus. P. J. Paquet. No. 1,144,234; June 22; Gaz. vol. 215; p. 1203.
- Glass-drawing apparatus. W. W. Pilkington. No. 1,131,953; Mar. 16; Gaz. vol. 212; p. 805.
- Glass-drawing apparatus. H. G. Slungluff. No. 1,141,497; June 1; Gaz. vol. 215; p. 146.
- Glass-drawing apparatus. L. A. Thornburg. No. 1,124,823; Jan. 12; Gaz. vol. 210; p. 614.
- Glass-drawing apparatus. L. A. Thornburg. No. 1,163,487; Dec. 7; Gaz. vol. 221; p. 263.
- Glass-drawing apparatus, Sheet. L. J. Krebs. No. 1,136,816; Apr. 20; Gaz. vol. 213; p. 1051.
- Glass-drawing furnace. R. H. Bolin. No. 1,163,583; Dec. 7; Gaz. vol. 221; p. 297.
- Glass-drawing furnace. R. H. Bolin. No. 1,163,585; Dec. 7; Gaz. vol. 221; p. 297.
- Glass-drawing furnace. V. H. Gregory. No. 1,157,980; Oct. 26; Gaz. vol. 219; p. 1046.
- Glass-drawing furnace, Regenerative. W. L. Monroe. No. 1,157,246; Oct. 19; Gaz. vol. 219; p. 728.
- Glass-drawing machine. R. L. Frink. No. 1,166,125; Dec. 28; Gaz. vol. 221; p. 1311.
- Glass-drawing machine. R. S. Pease. No. 1,161,246; Nov. 23; Gaz. vol. 220; p. 1132.
- Glass-drawing machine, Sheet. G. A. Shields. No. 1,133,752; Mar. 30; Gaz. vol. 212; p. 1542.
- Glass-drawing machines, Air-valve for. C. Day. No. 1,124,872; Jan. 12; Gaz. vol. 210; p. 632.
- Glass-drawing machines, Fluid-pressure-controlling mechanism for. C. Day. No. 1,124,871; Jan. 12; Gaz. vol. 210; p. 632.
- Glass-drawing method and apparatus. R. L. Frink. No. 1,165,961; Dec. 28; Gaz. vol. 221; p. 1251.
- Glass-drawing method and apparatus. W. L. Monroe. No. 1,125,588; Jan. 19; Gaz. vol. 210; p. 920.
- Glass-drawing method and apparatus, Sheet. I. W. Colburn. No. 1,160,692; Nov. 16; Gaz. vol. 220; p. 892.
- Glass-drawing pot. R. L. and F. J. Frink. No. 1,165,960; Dec. 28; Gaz. vol. 221; p. 1250.
- Glass-drawing-pot trunnion. W. L. Monroe. No. 1,143,296; June 15; Gaz. vol. 215; p. 852.
- Glass-drawing pots and liberating and setting the same, Air-duct for. R. L. Frink. No. 1,165,963; Dec. 28; Gaz. vol. 221; p. 1252.
- Glass-feeding mechanism. H. K. Hitchcock. (Reissue.) No. 1,139,299; June 15; Gaz. vol. 215; p. 960.
- Glass-forming machine. B. D. Chamberlin. No. 1,148,216; July 27; Gaz. vol. 216; p. 1203.
- Glass-forming machine. W. S. Teeple. No. 1,154,894; Sept. 28; Gaz. vol. 218; p. 983.
- Glass from vessels containing a bath of glass, Method of and apparatus for removing the residual. R. L. Frink. No. 1,165,962; Dec. 28; Gaz. vol. 221; p. 1251.
- Glass-furnace. R. H. Bolin. No. 1,163,584; Dec. 7; Gaz. vol. 221; p. 297.
- Glass-furnace. E. T. Ferngren. No. 1,143,112; June 15; Gaz. vol. 215; p. 786.
- Glass-furnace. V. H. Gregory. No. 1,151,942; Aug. 31; Gaz. vol. 217; p. 1480.
- Glass-furnace. S. B. Henshaw. No. 1,127,245; Feb. 2; Gaz. vol. 211; p. 205.
- Glass-furnace. W. N. Mathews. No. 1,152,828; Sept. 7; Gaz. vol. 218; p. 165.
- Glass-furnace. E. Miller. No. 1,135,973; Apr. 13; Gaz. vol. 213; p. 712.
- Glass-furnace. P. J. Paquet. No. 1,131,788; Mar. 16; Gaz. vol. 212; p. 746.

Alphabetical list of inventions—Continued.

- Glass-furnace. W. W. Pilkington. No. 1,154,052; Sept. 21; Gaz. vol. 218; p. 668.
- Glass-furnace. J. J. Quertinmont. No. 1,130,536; Mar. 2; Gaz. vol. 212; p. 245.
- Glass-furnace. L. Steelman. No. 1,145,815; July 6; Gaz. vol. 216; p. 293.
- Glass-glazing machine. H. C. Watson. No. 1,135,640; Apr. 13; Gaz. vol. 213; p. 595.
- Glass-grinding apparatus, Supplying abrasive to. W. J. Golightly. No. 1,136,328; Apr. 20; Gaz. vol. 213; p. 877.
- Glass-grinding machines, Runner control for. J. H. Kuhns. No. 1,151,802; Aug. 31; Gaz. vol. 217; p. 1433.
- Glass-holder. L. P. Canning. No. 1,141,609; June 1; Gaz. vol. 215; p. 186.
- Glass-holder. R. B. Gilchrist. No. 1,147,856; July 27; Gaz. vol. 216; p. 1075.
- Glass-ladle, Vacuum-operated. S. O. Richardson, Jr. No. 1,147,438; July 20; Gaz. vol. 216; p. 903.
- Glass, Laying-frame for plate. W. J. Golightly. No. 1,146,563; July 13; Gaz. vol. 216; p. 578.
- Glass letters, Making. R. R. Wiley and W. S. Hough, Jr. No. 1,146,910; July 20; Gaz. vol. 216; p. 717.
- Glass-machine. A. L. Bingham. No. 1,125,895; Jan. 19; Gaz. vol. 210; p. 1029.
- Glass-machine. J. Dffenbacker. No. 1,149,117; Aug. 3; Gaz. vol. 217; p. 221.
- Glass machine, Single-strand-wire. A. J. Baldwin. No. 1,144,976; June 29; Gaz. vol. 215; p. 1484.
- Glass-machines, Drop-feeding device for. L. A. Drey. No. 1,146,694; July 13; Gaz. vol. 216; p. 622.
- Glass, Making a compound of. H. M. Brookfield. No. 1,143,885; June 22; Gaz. vol. 215; p. 1078.
- Glass, Making corrugated wire. W. Cox and A. Shuman. No. 1,156,213; Oct. 12; Gaz. vol. 219; p. 333.
- Glass-making furnace. L. A. Thornburg. No. 1,127,115; Feb. 2; Gaz. vol. 211; p. 160.
- Glass-making machine and method, Wire. N. Franzen. No. 1,135,937; Apr. 13; Gaz. vol. 213; p. 697.
- Glass-making machine, Wire. N. Franzen. No. 1,135,370; Apr. 13; Gaz. vol. 213; p. 499.
- Glass, Making wire. N. Franzen. No. 1,135,371; Apr. 13; Gaz. vol. 213; p. 499.
- Glass, Manufacturing. R. G. Kann. No. 1,149,451; Aug. 10; Gaz. vol. 217; p. 447.
- Glass, Manufacturing. O. A. Mygatt. No. 1,155,000; Sept. 28; Gaz. vol. 218; p. 1020.
- Glass-material-handling apparatus. H. K. Hitchcock. No. 1,151,590; Aug. 31; Gaz. vol. 217; p. 1360.
- Glass, Means for drawing sheet. I. W. Colburn. No. 1,156,273; Oct. 12; Gaz. vol. 219; p. 353.
- Glass-melting tank-furnace. G. E. Howard. No. 1,138,110; May 4; Gaz. vol. 214; p. 137.
- Glass-melting tank-furnace. G. E. Howard. No. 1,138,111; May 4; Gaz. vol. 214; p. 138.
- Glass-mending device. C. W. Woodruff. No. 1,124,093; Jan. 5; Gaz. vol. 210; p. 304.
- Glass-mold. A. S. Titus, F. P. Weible, and S. E. Johnson. No. 1,161,998; Nov. 30; Gaz. vol. 220; p. 1440.
- Glass-mold lock. J. Proeger. No. 1,141,653; June 1; Gaz. vol. 215; p. 202.
- Glass-molding apparatus. F. C. Messner and J. W. Lamparter. No. 1,143,423; June 15; Gaz. vol. 215; p. 897.
- Glass-molding mechanism. A. Kadow. No. 1,156,009; Oct. 5; Gaz. vol. 219; p. 237.
- Glass or mirror fastener. W. H. Holder. No. 1,155,924; Oct. 5; Gaz. vol. 219; p. 208.
- Glass or the like, Built-up structure of. H. B. Oberhake. No. 1,158,144; Oct. 26; Gaz. vol. 219; p. 1104.
- Glass-ornamenting machine. J. Stott. No. 1,158,329; Oct. 26; Gaz. vol. 219; p. 1168.
- Glass plates or shaped glass stones, Manufacture of decorated. D. Swarovski. No. 1,162,114; Nov. 30; Gaz. vol. 220; p. 1483.
- Glass plates or sheets, Manufacture of. H. K. Hitchcock. No. 1,128,448; Feb. 16; Gaz. vol. 211; p. 713.
- Glass-polishing apparatus, Plate. C. L. Smith. No. 1,125,751; Jan. 19; Gaz. vol. 210; p. 980.
- Glass, Producing drawn sheet. S. H. Stupakoff. No. 1,136,290; Apr. 20; Gaz. vol. 213; p. 864.
- Glass-removing apparatus. T. Spillane and T. Brinning. No. 1,156,379; Oct. 12; Gaz. vol. 219; p. 392.
- Glass rods and forming spiders therewith, Machine for manipulating. J. T. Fagan. No. 1,128,120; Feb. 9; Gaz. vol. 211; p. 551.
- Glass-rolling machine, Sheet. G. A. Shields. No. 1,133,751; Mar. 30; Gaz. vol. 212; p. 154.
- Glass-running-out device. J. W. Harding. No. 1,150,030; Aug. 17; Gaz. vol. 217; p. 717.
- Glass, Safety means for setting plate. D. J. Murnane. No. 1,138,499; May 4; Gaz. vol. 214; p. 272.
- Glass-shear machine. F. W. Pawling. No. 1,164,311; Dec. 14; Gaz. vol. 221; p. 596.
- Glass-shearing apparatus. C. M. Schaub. No. 1,134,763; Apr. 6; Gaz. vol. 213; p. 249.
- Glass sheets, Handling. O. B. Carnahan. No. 1,125,468; Jan. 19; Gaz. vol. 210; p. 878.
- Glass sheets, Manufacture of. F. L. O. Wadsworth. No. 1,161,912; Nov. 30; Gaz. vol. 220; p. 1411.
- Glass sheets, Manufacture of. F. L. O. Wadsworth. No. 1,161,913; Nov. 30; Gaz. vol. 220; p. 1411.
- Glass sheets, Method of and apparatus for drawing. W. L. Monro. No. 1,164,007; Dec. 14; Gaz. vol. 221; p. 490.
- Glass, Spinning. G. von Pазsiczky. No. 1,137,814; May 4; Gaz. vol. 214; p. 32.
- Glass structure. O. A. Mygatt. No. 1,149,208; Aug. 10; Gaz. vol. 217; p. 359.
- Glass structure. O. A. Mygatt. No. 1,157,953; Oct. 26; Gaz. vol. 219; p. 1036.
- Glass to molds, Delivering molten. L. W. Proeger. No. 1,143,317; June 15; Gaz. vol. 215; p. 859.
- Glass-tube-drawing apparatus. B. D. Chamberlin. No. 1,163,969; Dec. 14; Gaz. vol. 221; p. 477.
- Glass vacuum-receptacles, Forming. C. P. Byrnes. No. 1,127,381; Feb. 2; Gaz. vol. 211; p. 249.
- Glass-washer. H. H. Krone, M. Rubenstein, and J. Rubinstein. No. 1,134,957; Apr. 6; Gaz. vol. 213; p. 311.
- Glass-washer. J. F. Merrigan. No. 1,140,698; May 25; Gaz. vol. 214; p. 1154.
- Glass-washing device. R. J. Liebig and E. Anderson. No. 1,132,728; Mar. 23; Gaz. vol. 212; p. 1137.
- Glass windows, Means to prevent condensation of water on. T. Carence. No. 1,128,103; Feb. 9; Gaz. vol. 211; p. 546.
- Glass-working. M. K. Holmes. No. 1,133,244; Mar. 23; Gaz. vol. 212; p. 1323.
- Glass, Working. W. J. Woods. No. 1,163,963; Dec. 14; Gaz. vol. 221; p. 475.
- Glass-working apparatus. B. D. Chamberlin. No. 1,148,212; July 27; Gaz. vol. 216; p. 1202.
- Glass-working apparatus. B. D. Chamberlin. No. 1,148,214; July 27; Gaz. vol. 216; p. 1202.
- Glass-working apparatus. C. Paquet. No. 1,136,832; Apr. 20; Gaz. vol. 213; p. 1057.
- Glass-working apparatus. W. J. Woods. No. 1,157,653; Oct. 19; Gaz. vol. 219; p. 866.
- Glass-working machine. J. W. Robinson. No. 1,147,892; July 27; Gaz. vol. 216; p. 1087.
- Glass-working machine. W. S. Teeple. No. 1,154,895; Sept. 28; Gaz. vol. 218; p. 984.
- Glass-working machinery. A. La France. No. 1,165,884; Dec. 28; Gaz. vol. 221; p. 1225.
- Glasses. H. H. Styl. No. 1,165,036; Dec. 21; Gaz. vol. 221; p. 890.
- Glassware blow-mold. A. R. Grotz. No. 1,129,668; Feb. 23; Gaz. vol. 211; p. 1174.
- Glassware, Composition of matter for molds and forms for. B. C. Gilligan. No. 1,165,003; Dec. 21; Gaz. vol. 221; p. 879.
- Glassware, Machine for making hollow. J. Rau. No. 1,149,857; Aug. 10; Gaz. vol. 217; p. 594.
- Glassware-manufacturing machine. F. O'Neill. No. 1,147,539; July 20; Gaz. vol. 216; p. 937.
- Glaze, enamel, or glass composition. S. H. Hull. No. 1,158,922; Nov. 2; Gaz. vol. 220; p. 180.
- Glazier's point-setter. T. C. Hartley. No. 1,134,334; Apr. 6; Gaz. vol. 213; p. 92.
- Glazier's tool. C. A. Hassler. No. 1,126,996; Feb. 2; Gaz. vol. 211; p. 116.
- Glazier's tool. F. W. McDermott. No. 1,153,092; Sept. 7; Gaz. vol. 218; p. 258.
- Glazing. M. Rasmussen. No. 1,164,866; Dec. 21; Gaz. vol. 221; p. 831.
- Glazing. M. Rasmussen. No. 1,164,867; Dec. 21; Gaz. vol. 221; p. 831.
- Glazing and hardening brick, terra-cotta, and other objects. L. R. Dennison. No. 1,158,417; Oct. 26; Gaz. vol. 219; p. 1201.
- Glazing construction. W. P. Waugh. No. 1,156,335; Oct. 12; Gaz. vol. 219; p. 374.
- Glazing natural and artificial stones and plastic materials. P. Fenaroli. No. 1,164,710; Dec. 21; Gaz. vol. 221; p. 776.
- Glazing-strip. W. W. Crocker. No. 1,156,981; Oct. 19; Gaz. vol. 219; p. 633.
- Glazings, Locking-ring for. W. H. White. No. 1,144,083; June 22; Gaz. vol. 215; p. 1148.
- Gliding craft. P. C. Hewitt. No. 1,164,346; Dec. 14; Gaz. vol. 221; p. 609.
- Globe, Astronomical. M. W. Coultrap. No. 1,148,891; Aug. 3; Gaz. vol. 217; p. 144.
- Globe for street-lighting. O. G. Luyties. No. 1,163,353; Dec. 7; Gaz. vol. 221; p. 217.
- Globe, Geographical time. G. W. Ramage. No. 1,152,904; Sept. 7; Gaz. vol. 218; p. 193.
- Globe-holder. J. G. Akers and J. Britsch. No. 1,133,905; Mar. 30; Gaz. vol. 212; p. 1596.
- Globe-holder. F. J. Humphrey. No. 1,139,684; May 18; Gaz. vol. 214; p. 764.
- Globe-holder, Spring. H. H. and H. T. Hipwell. No. 1,165,505; Dec. 28; Gaz. vol. 221; p. 1092.
- Globe, Terrestrial. M. W. Hard. No. 1,157,219; Oct. 19; Gaz. vol. 219; p. 717.
- Glove. E. T. Baskin. No. 1,156,517; Oct. 12; Gaz. vol. 219; p. 440.
- Glove. E. T. Baskin. (Reissue.) No. 14,025; Dec. 7; Gaz. vol. 221; p. 314.
- Glove. F. J. Stoiber. No. 1,147,460; July 20; Gaz. vol. 216; p. 911.
- Glove. H. A. Taylor. No. 1,153,728; Sept. 14; Gaz. vol. 218; p. 522.

- Glove. H. A. Taylor. No. 1,162,821; Dec. 7; Gaz. vol. 221; p. 32.
- Glove. H. Urwick. No. 1,143,093; June 15; Gaz. vol. 215; p. 780.
- Glove, Boxing-. M. Stillman. No. 1,146,742; July 13; Gaz. vol. 216; p. 638.
- Glove, Boxing-. T. K. Travers. No. 1,150,648; Aug. 17; Gaz. vol. 217; p. 935.
- Glove-cleaning machine. D. B. Rodkey. No. 1,143,440; June 15; Gaz. vol. 215; p. 903.
- Glove-cleaning machine. H. B. Sabin, A. B. Tozer, and A. R. Curtis. No. 1,132,688; Mar. 23; Gaz. vol. 212; p. 1122.
- Glove-cleaning machine. F. C. W. Stelter. No. 1,126,906; Feb. 2; Gaz. vol. 211; p. 85.
- Glove, Grip golf-. J. Heagle. No. 1,149,139; Aug. 3; Gaz. vol. 217; p. 229.
- Glove, Hockey-. J. Gamble. No. 1,130,895; Mar. 9; Gaz. vol. 212; p. 402.
- Glove, Massage-. W. R. Norton. No. 1,161,719; Nov. 23; Gaz. vol. 220; p. 1296.
- Glove or gauntlet. D. M. Wirth. No. 1,135,747; Apr. 13; Gaz. vol. 213; p. 633.
- Glove or mitten. E. C. Hunter. No. 1,126,014; Jan. 26; Gaz. vol. 210; p. 1105.
- Glove, Reversible. C. E. and R. G. Chaddock and G. A. Kurz. No. 1,136,587; Apr. 20; Gaz. vol. 213; p. 970.
- Glove, Seamless rubber. T. W. Miller. No. 1,157,646; Oct. 19; Gaz. vol. 219; p. 863.
- Glove, Signaling-. E. Harris. No. 1,165,970; Dec. 28; Gaz. vol. 221; p. 1254.
- Gloves, Manufacturing seamless rubber. T. W. Miller. No. 1,146,638; July 13; Gaz. vol. 216; p. 604.
- Gloves, Manufacturing seamless rubber. T. W. Miller. No. 1,165,198; Dec. 21; Gaz. vol. 221; p. 948.
- Glucose from starch, Production of. H. Wuksan. No. 1,139,620; May 18; Gaz. vol. 214; p. 741.
- Glue and paste tubes, Plug for. N. C. Phillips. No. 1,152,545; Sept. 7; Gaz. vol. 218; p. 61.
- Glue, Composition. J. W. and R. Schleicher. No. 1,162,712; Nov. 30; Gaz. vol. 220; p. 1683.
- Glue form and clamp. R. S. Orm. No. 1,133,174; Mar. 23; Gaz. vol. 212; p. 1300.
- Glue or cement and making the same, Waterproof. C. W. Bullock. No. 1,124,286; Jan. 12; Gaz. vol. 210; p. 422.
- Glue or like pot. W. Rice. No. 1,135,466; Apr. 13; Gaz. vol. 213; p. 532.
- Glue-pot. H. W. Twaddle. No. 1,161,551; Nov. 23; Gaz. vol. 220; p. 1240.
- Glue-pot for box-making machines. E. G. Staude. No. 1,127,538; Feb. 9; Gaz. vol. 211; p. 346.
- Glue-spreader, Fountain. A. Johnson. No. 1,155,420; Oct. 5; Gaz. vol. 219; p. 34.
- Glue-spreading machine. J. B. Haberle and J. B. B. Stryker. No. 1,143,385; June 15; Gaz. vol. 215; p. 884.
- Glue to book-covers, Device for applying. T. S. Etheridge. No. 1,140,450; May 25; Gaz. vol. 214; p. 1068.
- Guing-clamp. D. A. Ferris. No. 1,162,759; Dec. 7; Gaz. vol. 221; p. 9.
- Guing-machine. W. D. Kelly. No. 1,165,416; Dec. 28; Gaz. vol. 221; p. 1062.
- Guing-machine. W. D. Kelly. No. 1,166,133; Dec. 28; Gaz. vol. 221; p. 1314.
- Guing-machine. J. D. Reifsnnyder and H. B. Smith. No. 1,166,004; Dec. 28; Gaz. vol. 221; p. 1267.
- Go-cart. R. B. Aiman. No. 1,129,054; Feb. 23; Gaz. vol. 211; p. 961.
- Go-cart. C. H. Beasecker and G. P. Simons. No. 1,125,934; Jan. 26; Gaz. vol. 210; p. 1075.
- Go-cart. F. Hyde. No. 1,157,224; Oct. 19; Gaz. vol. 219; p. 719.
- Go-cart. A. E. McGill. No. 1,123,908; Jan. 5; Gaz. vol. 210; p. 242.
- Go-cart, Collapsible. M. B. Lloyd. No. 1,124,151; Jan. 5; Gaz. vol. 210; p. 323.
- Go-cart, Collapsible. M. B. Lloyd. No. 1,124,152; Jan. 5; Gaz. vol. 210; p. 324.
- Go-cart, Collapsible. M. B. Lloyd. No. 1,124,154; Jan. 5; Gaz. vol. 210; p. 325.
- Go-cart, Foldable. M. B. Lloyd. No. 1,124,155; Jan. 5; Gaz. vol. 210; p. 325.
- Go-cart, Folding. J. G. Bailey. No. 1,125,441; Jan. 19; Gaz. vol. 210; p. 870.
- Go-carts, Crib attachment for. C. S. Heath. No. 1,138,472; May 4; Gaz. vol. 214; p. 264.
- Goggle. H. H. Styli. No. 1,147,278; July 20; Gaz. vol. 216; p. 845.
- Goggles. J. T. Brayton. No. 1,146,549; July 13; Gaz. vol. 216; p. 573.
- Goggles. L. W. Bugbee. No. 1,156,389; Oct. 12; Gaz. vol. 219; p. 396.
- Goggles. G. D. George. No. 1,141,388; June 1; Gaz. vol. 215; p. 108.
- Goggles. W. G. King. No. 1,137,494; Apr. 27; Gaz. vol. 213; p. 1332.
- Goggles. F. Willson and N. Bourquin. No. 1,151,641; Aug. 31; Gaz. vol. 217; p. 1377.
- Gold-extraction machine. C. Suiter. No. 1,164,676; Dec. 21; Gaz. vol. 221; p. 765.
- Gold extractor, Superfine-. C. Suiter. No. 1,164,677; Dec. 21; Gaz. vol. 221; p. 767.
- Gold-leaf-cutting device. L. M. Harwood. No. 1,156,224; Oct. 12; Gaz. vol. 219; p. 336.
- Gold-leafing surfaces. F. H. Davis and C. Schumacher. No. 1,124,869; Jan. 12; Gaz. vol. 210; p. 631.
- Gold or colored leaf, Making imitation. K. E. Olson. No. 1,158,265; Oct. 26; Gaz. vol. 219; p. 1145.
- Gold-saving apparatus. I. Anderson. No. 1,125,631; Jan. 19; Gaz. vol. 210; p. 936.
- Gold-saving machine. F. A. Monroe. No. 1,124,501; Jan. 12; Gaz. vol. 210; p. 498.
- Gold-saving machine. J. T. Voigt. No. 1,160,550; Nov. 16; Gaz. vol. 220; p. 838.
- Gold-separating mechanism. F. W. Stevens. No. 1,139,143; May 11; Gaz. vol. 214; p. 539.
- Gold-separator. D. Hoogendorn. No. 1,128,678; Feb. 23; Gaz. vol. 211; p. 1178.
- Golf and like club. D. and K. Roberts. No. 1,135,621; Apr. 13; Gaz. vol. 213; p. 589.
- Golf-bag. F. L. O. Wadsworth. No. 1,128,921; Feb. 16; Gaz. vol. 211; p. 879.
- Golf-bag, Combination. C. S. Chapman. No. 1,149,028; Aug. 3; Gaz. vol. 217; p. 192.
- Golf-ball marker. J. D. Lyon. No. 1,139,689; May 18; Gaz. vol. 214; p. 766.
- Golf-ball-marking device. M. H. Dean. No. 1,135,995; Apr. 20; Gaz. vol. 213; p. 761.
- Golf caddle-bags and the like, Stand for. G. G. Parnall. No. 1,135,464; Apr. 13; Gaz. vol. 213; p. 532.
- Golf-club. R. H. Davis. No. 1,154,490; Sept. 21; Gaz. vol. 218; p. 818.
- Golf-club. H. P. Dixon. No. 1,131,486; Mar. 9; Gaz. vol. 212; p. 605.
- Golf-club. J. Govan. No. 1,133,129; Mar. 23; Gaz. vol. 212; p. 1284.
- Golf-club. A. W. Hayford. No. 1,126,208; Jan. 26; Gaz. vol. 210; p. 1178.
- Golf-club. G. Legh. No. 1,139,985; May 18; Gaz. vol. 214; p. 870.
- Golf-club. W. L. Righter. No. 1,140,399; May 25; Gaz. vol. 214; p. 1050.
- Golf-club. R. G. Tyler. No. 1,139,738; May 18; Gaz. vol. 214; p. 783.
- Golf-club. L. H. Vorles. No. 1,165,559; Dec. 28; Gaz. vol. 221; p. 1110.
- Golf-club, Adjustable. W. F. Breitenbaugh. No. 1,137,457; Apr. 27; Gaz. vol. 213; p. 1320.
- Golf-club shaft. A. E. Lard. No. 1,124,029; Jan. 12; Gaz. vol. 210; p. 685.
- Golf, Device for use in playing. J. T. McGillicuddy. No. 1,126,051; Jan. 26; Gaz. vol. 210; p. 1119.
- Golf-iron. J. H. Churchill. No. 1,128,288; Feb. 16; Gaz. vol. 211; p. 660.
- Golf-practising device. C. S. Britton. No. 1,164,985; Dec. 21; Gaz. vol. 221; p. 873.
- Golf, putting, and other games, Device for playing and practising. D. Maher. No. 1,135,706; Apr. 13; Gaz. vol. 213; p. 618.
- Golf-tee. H. Abert. No. 1,144,747; June 29; Gaz. vol. 215; p. 1407.
- Golf-tee. L. W. Luellen. No. 1,152,649; Sept. 7; Gaz. vol. 218; p. 100.
- Golf-tee. H. U. True. No. 1,142,997; June 15; Gaz. vol. 215; p. 746.
- Golf teeing-stand. R. Reach. No. 1,129,013; Feb. 16; Gaz. vol. 211; p. 912.
- Gong. C. E. Avery. No. 1,155,869; Oct. 5; Gaz. vol. 219; p. 190.
- Gong. L. A. Kling. No. 1,148,326; July 27; Gaz. vol. 216; p. 1244.
- Gong. L. A. Kling and G. B. Kohler. No. 1,148,327; July 27; Gaz. vol. 216; p. 1244.
- Goods holding and computing apparatus. W. Kulper. No. 1,153,504; Sept. 14; Gaz. vol. 218; p. 443.
- Goods-spreader. J. P. Weis. No. 1,139,612; May 18; Gaz. vol. 214; p. 738.
- Gooseberry-cleaner. R. L. Pebley. No. 1,161,963; Nov. 30; Gaz. vol. 220; p. 1429.
- Gopher-trap. C. J. Roy. No. 1,161,891; Nov. 30; Gaz. vol. 220; p. 1403.
- Gopher-trap. A. Schreck. No. 1,135,626; Apr. 13; Gaz. vol. 213; p. 590.
- Gopher-trap. H. Uhrig. No. 1,132,697; Mar. 23; Gaz. vol. 212; p. 1125.
- Governing means for engines. F. Hodgkinson. No. 1,136,910; Apr. 20; Gaz. vol. 213; p. 1084.
- Governing means for internal-combustion engines. A. M. Chase. No. 1,129,788; Feb. 23; Gaz. vol. 211; p. 1215.
- Governing mechanism, Automatic. R. H. Rice. No. 1,134,761; Apr. 6; Gaz. vol. 213; p. 248.
- Governor. D. S. Burkhardt. No. 1,165,842; Dec. 28; Gaz. vol. 221; p. 1209.
- Governor. E. A. Burrow. No. 1,144,586; June 29; Gaz. vol. 215; p. 1350.
- Governor. J. D. Cummins. No. 1,149,898; Aug. 10; Gaz. vol. 217; p. 609.
- Governor. E. R. Hewitt. No. 1,148,318; July 27; Gaz. vol. 216; p. 1241.
- Governor attachment. J. Hawkins and B. F. Loftin. No. 1,141,054; May 25; Gaz. vol. 214; p. 1279.
- Governor, Centrifugal. B. Krämer. No. 1,130,177; Mar. 2; Gaz. vol. 212; p. 116.

Alphabetical list of inventions—Continued.

- Governor, Centrifugal. G. A. Schacht. No. 1,135,054; Apr. 13; Gaz. vol. 213; p. 392.
- Governor, Combustion-engine. E. Kägi. No. 1,127,012; Feb. 2; Gaz. vol. 211; p. 123.
- Governor, Engine-. C. Balough. No. 1,137,110; Apr. 27; Gaz. vol. 213; p. 1193.
- Governor, Engine-. B. G. Kramer. No. 1,127,644; Feb. 9; Gaz. vol. 211; p. 381.
- Governor for automobile-engines and the like. M. T. Baird. No. 1,143,347; June 15; Gaz. vol. 215; p. 869.
- Governor for engines. Adjustable. E. Craft. No. 1,136,940; Apr. 27; Gaz. vol. 213; p. 1131.
- Governor for explosion-engines. L. C. Freeman. No. 1,162,047; Nov. 30; Gaz. vol. 220; p. 1457.
- Governor for internal-combustion engines. C. H. Taylor. No. 1,133,679; Mar. 30; Gaz. vol. 212; p. 1517.
- Governor for vehicles. Automatic engine-speed. T. Douglas. No. 1,128,115; Feb. 9; Gaz. vol. 211; p. 550.
- Governor, Hydrocarbon-engine. R. M. Hvid. No. 1,165,674; Dec. 28; Gaz. vol. 221; p. 1153.
- Governor, Hydrocarbon-engine. B. G. Kramer. No. 1,127,645; Feb. 9; Gaz. vol. 211; p. 381.
- Governor, Marine. N. Dupuis. No. 1,154,105; Sept. 21; Gaz. vol. 218; p. 687.
- Governor mechanism. N. Baldwin. No. 1,130,659; Mar. 2; Gaz. vol. 212; p. 285.
- Governor, Pneumatic. B. S. Aikman. No. 1,153,879; Sept. 21; Gaz. vol. 218; p. 609.
- Governor-spring. J. A. Le Cato. No. 1,140,271; May 18; Gaz. vol. 214; p. 970.
- Governor, Steam-engine. F. R. Brugger. No. 1,132,068; Mar. 16; Gaz. vol. 212; p. 847.
- Gown. C. A. Bonoff. No. 1,155,544; Oct. 5; Gaz. vol. 219; p. 78.
- Gown, Maternity-. T. Cooper and J. H. Brigance. No. 1,155,551; Oct. 5; Gaz. vol. 219; p. 80.
- Grab-fork. E. Murrey. No. 1,156,247; Oct. 12; Gaz. vol. 219; p. 344.
- Grabbing device. J. R. Kirley. No. 1,162,787; Dec. 7; Gaz. vol. 221; p. 19.
- Grade-indicator. W. L. Taylor and R. G. Newton. No. 1,166,019; Dec. 28; Gaz. vol. 221; p. 1272.
- Grader. R. E. Adams. No. 1,133,251; Mar. 30; Gaz. vol. 212; p. 1363.
- Grader. N. P. Frantzen. No. 1,145,301; July 6; Gaz. vol. 216; p. 113.
- Grader. J. M. Young. No. 1,157,279; Oct. 19; Gaz. vol. 219; p. 739.
- Grader-frame. G. A. Kelley. No. 1,127,774; Feb. 9; Gaz. vol. 211; p. 430.
- Grader, Road-. H. G. Taylor. No. 1,142,381; June 8; Gaz. vol. 215; p. 492.
- Grader, Road-. P. Yeager. No. 1,155,862; Oct. 5; Gaz. vol. 219; p. 188.
- Grader, Road-surfacing. M. Haynes. No. 1,158,805; Nov. 2; Gaz. vol. 220; p. 139.
- Grader, Rotary road-. C. P. Bettenga. No. 1,131,902; Mar. 16; Gaz. vol. 212; p. 787.
- Grader, Trail-. A. W. Phillips. No. 1,132,487; Mar. 16; Gaz. vol. 212; p. 1000.
- Graders, Adjusting mechanism for road-. E. M. Reese. No. 1,151,822; Aug. 31; Gaz. vol. 217; p. 1441.
- Grading and leveling machine. A. H. Miller. No. 1,142,114; June 8; Gaz. vol. 215; p. 399.
- Grading and sizing machine. J. M. Gunn. No. 1,163,910; Dec. 14; Gaz. vol. 221; p. 456.
- Grading apparatus. J. A. Bechtel. No. 1,151,558; Aug. 31; Gaz. vol. 217; p. 1348.
- Grading-machine. L. V. Brophy. No. 1,147,302; July 20; Gaz. vol. 216; p. 853.
- Grading-machine. C. B. Fell. No. 1,150,588; Aug. 17; Gaz. vol. 217; p. 913.
- Grading-machine. C. H. Magruder. No. 1,153,508; Sept. 14; Gaz. vol. 218; p. 445.
- Grading-machine. E. A. Stiggins. No. 1,163,115; Dec. 7; Gaz. vol. 221; p. 132.
- Grading-machine. C. K. Stockland. No. 1,123,420; Jan. 5; Gaz. vol. 210; p. 76.
- Grading-machine. C. K. Stockland. No. 1,126,117; Jan. 26; Gaz. vol. 210; p. 1143.
- Grading machine and ditcher, Road-. W. R. Williams. No. 1,129,936; Mar. 2; Gaz. vol. 212; p. 36.
- Grading machine, Road-. J. M. Bresee. No. 1,128,654; Feb. 16; Gaz. vol. 211; p. 785.
- Gradometer. W. J. Spaulding. No. 1,136,731; Apr. 20; Gaz. vol. 213; p. 1022.
- Grain and making same. Fertilized. R. C. Buckley. No. 1,125,457; Jan. 19; Gaz. vol. 210; p. 875.
- Grain-assorter. G. Carlson. No. 1,163,889; Dec. 14; Gaz. vol. 221; p. 449.
- Grain-bag. F. G. Logsdon. No. 1,147,876; July 27; Gaz. vol. 216; p. 1081.
- Grain-bag. J. F. Shannon. No. 1,155,375; Oct. 5; Gaz. vol. 219; p. 17.
- Grain-binder cord-knotter. G. W. Witte. No. 1,155,860; Oct. 5; Gaz. vol. 219; p. 187.
- Grain-carrier. Automatic. A. Gebhardt. No. 1,165,499; Dec. 28; Gaz. vol. 221; p. 1090.
- Grain-carriers. Draft appliance for self-loading. J. E. Moscrip. No. 1,135,835; Apr. 13; Gaz. vol. 213; p. 664.
- Grain, Cleaning. R. Seidl. No. 1,152,920; Sept. 7; Gaz. vol. 218; p. 198.
- Grain-cleaning machine. G. McCabe. No. 1,145,154; July 6; Gaz. vol. 216; p. 63.
- Grain-conditioner. F. A. Wegner. No. 1,139,610; May 18; Gaz. vol. 214; p. 737.
- Grain-cradles. Scythe and post fastening for. O. O. Schwob. No. 1,124,816; Jan. 12; Gaz. vol. 210; p. 611.
- Grain cut-off. Automatic. L. Gold. No. 1,129,085; Feb. 23; Gaz. vol. 211; p. 971.
- Grain-decorating machine. A. B. Paige. No. 1,131,787; Mar. 16; Gaz. vol. 212; p. 746.
- Grain-distributing apparatus. W. H. Roney. No. 1,149,221; Aug. 10; Gaz. vol. 217; p. 363.
- Grain-divider. H. A. Vogel. No. 1,131,186; Mar. 9; Gaz. vol. 212; p. 500.
- Grain-drier. H. C. Ellis. No. 1,127,974; Feb. 9; Gaz. vol. 211; p. 500.
- Grain-drier. G. H. Hess. No. 1,141,546; June 1; Gaz. vol. 215; p. 164.
- Grain-drier. L. H. Hill. No. 1,123,877; Jan. 5; Gaz. vol. 210; p. 231.
- Grain drier and cooler. F. R. Morris. No. 1,157,172; Oct. 19; Gaz. vol. 219; p. 700.
- Grain-drying apparatus. F. E. Djandieri and S. Shapow. No. 1,160,053; Nov. 9; Gaz. vol. 220; p. 609.
- Grain-drill. H. W. Campbell. No. 1,124,695; Jan. 12; Gaz. vol. 210; p. 568.
- Grain-drill. G. M. Winwood, Jr. No. 1,144,274; June 22; Gaz. vol. 215; p. 1217.
- Grain-elevator. A. T. Adams and J. Dain. No. 1,161,758; Nov. 23; Gaz. vol. 220; p. 1309.
- Grain-elevator. A. F. Meyer. No. 1,152,371; Aug. 31; Gaz. vol. 217; p. 1631.
- Grain-elevator, Pneumatic. H. G. Lykken. No. 1,123,335; Jan. 5; Gaz. vol. 210; p. 48.
- Grain-elevator, Portable. H. W. Steege. No. 1,135,735; Apr. 13; Gaz. vol. 213; p. 629.
- Grain-elevator, Portable. B. M. Steele. No. 1,162,817; Dec. 7; Gaz. vol. 221; p. 31.
- Grain-elevator wagon-dump and conveyer mechanism. F. J. Zimmerman. No. 1,145,223; July 6; Gaz. vol. 216; p. 86.
- Grain, fruits, and other agricultural products. Drying, heating, or cooling of. G. H. and J. H. Stroband. No. 1,146,458; July 13; Gaz. vol. 216; p. 541.
- Grain-gathering device. P. F. Duerr. No. 1,156,985; Oct. 19; Gaz. vol. 219; p. 634.
- Grain-grinders and the like. Automatic feed. M. F. Verity. No. 1,166,024; Dec. 28; Gaz. vol. 221; p. 1273.
- Grain-grinding machine. W. F. and G. J. Moore. No. 1,135,313; Apr. 13; Gaz. vol. 213; p. 479.
- Grain handling and bagging device. F. L. Petrie. No. 1,128,183; Feb. 9; Gaz. vol. 211; p. 573.
- Grain-header. A. B. Drygas. No. 1,154,493; Sept. 21; Gaz. vol. 218; p. 818.
- Grain-heater controller. A. C. Brantingham. No. 1,158,623; Nov. 2; Gaz. vol. 220; p. 76.
- Grain into food form. Machine for manufacturing. H. D. Perky. No. 1,147,263; July 20; Gaz. vol. 216; p. 840.
- Grain into form for food. Machine for manufacturing. H. D. Perky. No. 1,145,918; July 13; Gaz. vol. 216; p. 349.
- Grain-lifter. J. Weisgarber. No. 1,123,632; Jan. 5; Gaz. vol. 210; p. 149.
- Grain mixing or blending apparatus. W. H. Roney. No. 1,145,215; July 6; Gaz. vol. 216; p. 83.
- Grain-pickler. J. E. Robinson and W. J. Currie. No. 1,155,618; Oct. 5; Gaz. vol. 219; p. 101.
- Grain-pickling device. G. H. French. No. 1,140,509; May 25; Gaz. vol. 214; p. 1090.
- Grain-rake. H. Monroe, Jr. No. 1,135,831; Apr. 13; Gaz. vol. 213; p. 663.
- Grain-saving device. F. Buse. No. 1,143,503; June 15; Gaz. vol. 215; p. 923.
- Grain-saving device. B. G. Nelson. No. 1,135,542; Apr. 13; Gaz. vol. 213; p. 559.
- Grain-scourer. C. R. Dimm. No. 1,148,298; July 27; Gaz. vol. 216; p. 1232.
- Grain-scouring machine. R. H. Kleiser. No. 1,131,526; Mar. 9; Gaz. vol. 212; p. 618.
- Grain screening, cleaning, and separating machine. Seed-. S. D. Felsing. No. 1,149,567; Aug. 10; Gaz. vol. 217; p. 487.
- Grain-screening device. G. E. Aspinwall and J. Terway. No. 1,133,421; Mar. 30; Gaz. vol. 212; p. 1422.
- Grain-separator. C. Day. No. 1,124,873; Jan. 12; Gaz. vol. 210; p. 632.
- Grain-separator. J. Gately. No. 1,124,128; Jan. 5; Gaz. vol. 210; p. 316.
- Grain-separator. C. W. Peters. No. 1,136,973; Apr. 27; Gaz. vol. 213; p. 1142.
- Grain-separator. J. S. Walch. No. 1,158,396; Oct. 26; Gaz. vol. 219; p. 1193.
- Grain-separators. Shoe-operating mechanism for. P. R. Hawthorne. No. 1,138,591; May 4; Gaz. vol. 214; p. 303.
- Grain-shock elevator. J. James. No. 1,124,453; Jan. 12; Gaz. vol. 210; p. 481.
- Grain-shocker. L. Anderson. No. 1,146,838; July 20; Gaz. vol. 216; p. 691.
- Grain-shocker. J. M. Cornett. No. 1,165,650; Dec. 28; Gaz. vol. 221; p. 1144.

- Grain-shocker. G. Culbertson. No. 1,166,329; Dec. 28; Gaz. vol. 221; p. 1385.
- Grain-shocker. D. Dorn. No. 1,135,366; Apr. 13; Gaz. vol. 213; p. 497.
- Grain-shocker. G. J. Glenn. No. 1,124,416; Jan. 12; Gaz. vol. 210; p. 467.
- Grain-shocker. P. C. Kuhl. No. 1,134,465; Apr. 6; Gaz. vol. 213; p. 139.
- Grain-shocking apparatus. J. H. Tallman. No. 1,131,171; Mar. 9; Gaz. vol. 212; p. 495.
- Grain-shocking device. F. Newbauer. No. 1,124,236; Jan. 5; Gaz. vol. 210; p. 355.
- Grain-shocking machine. A. B. Chester. No. 1,165,319; Dec. 21; Gaz. vol. 221; p. 983.
- Grain-shocking machine. A. T. Dudley. No. 1,159,574; Nov. 9; Gaz. vol. 220; p. 438.
- Grain-spout adjuster. B. De Boer. No. 1,149,899; Aug. 10; Gaz. vol. 217; p. 609.
- Grain-sprouter. D. Benson. No. 1,130,135; Mar. 2; Gaz. vol. 212; p. 102.
- Grain-sprouting apparatus. G. B. Boyer. No. 1,124,844; Jan. 12; Gaz. vol. 210; p. 621.
- Grain-stalks, Mechanism for gripping and carrying. L. P. Whitaker. No. 1,163,729; Dec. 14; Gaz. vol. 221; p. 393.
- Grain, Sterilizing and preserving. E. R. Barrow. No. 1,165,220; Dec. 21; Gaz. vol. 221; p. 957.
- Grain-treating machine. C. R. and J. N. Harless. No. 1,148,087; July 27; Gaz. vol. 216; p. 1158.
- Grain, Treatment of seed-. H. E. Fry. No. 1,155,560; Oct. 5; Gaz. vol. 219; p. 82.
- Grain-trier. E. J. Wareham. No. 1,152,133; Aug. 31; Gaz. vol. 217; p. 1547.
- Graining device, Surface-. G. C. Powers. No. 1,123,590; Jan. 5; Gaz. vol. 210; p. 134.
- Graining-tool. T. J. McElhenie. No. 1,159,782; Nov. 9; Gaz. vol. 220; p. 615.
- Gramophone. R. W. De la Rue. No. 1,160,268; Nov. 16; Gaz. vol. 220; p. 738.
- Gramophone. J. Sanders. No. 1,152,343; Aug. 31; Gaz. vol. 217; p. 1620.
- Gramophone attachment. S. Dayan. No. 1,160,146; Nov. 16; Gaz. vol. 220; p. 697.
- Grammophone with an automatic musical instrument, Means for operatively connecting a. H. A. Preuss. No. 1,145,792; July 6; Gaz. vol. 216; p. 286.
- Granary. A. P. Schnell. No. 1,131,558; Mar. 9; Gaz. vol. 212; p. 628.
- Granular materials, Device for feeding and compressing. M. J. Fogarty. No. 1,164,276; Dec. 14; Gaz. vol. 221; p. 583.
- Granular substances, Device for sampling, mixing, and blending. E. G. Boerner. No. 1,160,036; Nov. 9; Gaz. vol. 220; p. 604.
- Grape-pomace heater. J. O. Schlotterbeck. No. 1,134,913; Apr. 6; Gaz. vol. 213; p. 296.
- Grape-shears. A. C. M. Russell. No. 1,123,929; Jan. 5; Gaz. vol. 210; p. 249.
- Graphic recorder. H. Feltermayer and C. B. Thwing. No. 1,137,596; Apr. 27; Gaz. vol. 213; p. 1365.
- Graphite and composition thereof, Expanded. J. W. Aylesworth. No. 1,137,373; Apr. 27; Gaz. vol. 213; p. 1290.
- Graphite-feeding lubricator. T. W. Johnson. No. 1,137,978; May 4; Gaz. vol. 214; p. 89.
- Graphite lubricator. E. A. and J. E. Jones. No. 1,145,314; July 6; Gaz. vol. 216; p. 117.
- Graphite lubricator, Automatic sight-feed. A. Kirchhofer. No. 1,145,318; July 6; Gaz. vol. 216; p. 119.
- Graphite, Purifying. E. N. Lainé. No. 1,145,024; July 6; Gaz. vol. 216; p. 17.
- Graphophone. A. E. Parnall. No. 1,130,837; Mar. 9; Gaz. vol. 212; p. 380.
- Graphophone. C. E. Woods. No. 1,163,120; Dec. 7; Gaz. vol. 221; p. 134.
- Graphophone-blanks, Machine for shaving. H. P. Roberts. No. 1,147,441; July 20; Gaz. vol. 216; p. 904.
- Graphophone-cabinet. L. F. Clawson, Jr. No. 1,129,790; Feb. 23; Gaz. vol. 211; p. 1215.
- Graphophone-record blank. W. A. Beatty. No. 1,158,964; Nov. 2; Gaz. vol. 220; p. 193.
- Graphophone, Repeating. C. Cameron, Jr. No. 1,142,670; June 8; Gaz. vol. 215; p. 591.
- Graphophones, Reproducer-support for. G. C. White. No. 1,160,803; Nov. 16; Gaz. vol. 220; p. 929.
- Grapple. W. D. Miller. No. 1,148,704; Aug. 3; Gaz. vol. 217; p. 79.
- Grapple. H. E. Skelton. No. 1,144,387; June 29; Gaz. vol. 215; p. 1284.
- Grapple. S. M. Smith. No. 1,145,220; July 6; Gaz. vol. 216; p. 84.
- Grapppling-hook. F. N. Canulette. No. 1,141,038; May 25; Gaz. vol. 214; p. 1273.
- Grass-burner. R. Garstang. No. 1,124,723; Jan. 12; Gaz. vol. 210; p. 578.
- Grass-catcher. W. Boss. No. 1,136,207; Apr. 20; Gaz. vol. 213; p. 834.
- Grass-catcher. J. P. Hasseries. No. 1,153,383; Sept. 14; Gaz. vol. 218; p. 399.
- Grass-catcher. L. J. Riddle. No. 1,134,489; Apr. 6; Gaz. vol. 213; p. 148.
- Grass digger, Quack-. M. Schmitt. No. 1,124,534; Jan. 12; Gaz. vol. 210; p. 510.
- Grass-hook. F. B. Hardsocg. No. 1,124,895; Jan. 12; Gaz. vol. 210; p. 640.
- Grass-trimming machine. G. W. Cline. No. 1,128,226; Feb. 9; Gaz. vol. 211; p. 587.
- Grasshopper-destroyer. M. J. A. Kochevar, Jr. No. 1,133,039; Mar. 23; Gaz. vol. 212; p. 1252.
- Grate. L. J. Binder. No. 1,154,477; Sept. 21; Gaz. vol. 218; p. 814.
- Grate. C. W. Hopes. No. 1,166,213; Dec. 28; Gaz. vol. 221; p. 1344.
- Grate-bar. R. F. Morse. No. 1,155,674; Oct. 5; Gaz. vol. 219; p. 121.
- Grate. C. B. Roberts. No. 1,138,976; May 11; Gaz. vol. 214; p. 479.
- Grate. J. A. Shuping. No. 1,143,235; June 15; Gaz. vol. 215; p. 831.
- Grate-bar. E. C. Clark. No. 1,145,349; July 6; Gaz. vol. 216; p. 129.
- Grate-bar. C. W. Hopes. No. 1,140,158; May 18; Gaz. vol. 214; p. 932.
- Grate-bar. T. S. Johnson. No. 1,125,551; Jan. 19; Gaz. vol. 210; p. 907.
- Grate-bar for chain-grate stokers. B. J. Morrison. No. 1,146,198; July 13; Gaz. vol. 216; p. 448.
- Grate-bar, Rocking. C. R. Wald. No. 1,151,746; Aug. 31; Gaz. vol. 217; p. 1412.
- Grate-bar section. E. A. Wildt. No. 1,138,339; May 4; Gaz. vol. 214; p. 218.
- Grate, Dumping-. G. H. Thacher, Jr. No. 1,158,747; Nov. 2; Gaz. vol. 220; p. 117.
- Grate, Duplex. M. Kase. No. 1,128,364; Feb. 16; Gaz. vol. 211; p. 685.
- Grate, Fire-. H. Benton. No. 1,131,461; Mar. 9; Gaz. vol. 212; p. 596.
- Grate, Folding. J. L. Moore. No. 1,138,498; May 4; Gaz. vol. 214; p. 272.
- Grate, Folding. C. E. O'Neal and J. A. Wanamaker. No. 1,125,156; Jan. 19; Gaz. vol. 210; p. 767.
- Grate for burning fine fuel. W. McClave. No. 1,134,883; Apr. 6; Gaz. vol. 213; p. 287.
- Grate mechanism, Chain-. P. L. Crowe and A. Frankenheim. No. 1,136,941; Apr. 27; Gaz. vol. 213; p. 1131.
- Grate, Revolvable. E. C. Stumpf. No. 1,124,551; Jan. 12; Gaz. vol. 210; p. 516.
- Grate, Roller-. E. P. Stevens. No. 1,127,939; Feb. 9; Gaz. vol. 211; p. 489.
- Grates, Elevation-adjusting means for chain. H. A. Poppenhusen. No. 1,144,502; June 29; Gaz. vol. 215; p. 1322.
- Grater. F. A. Clark. No. 1,160,043; Nov. 9; Gaz. vol. 220; p. 606.
- Grater for culinary use. G. Albanese. No. 1,158,153; Oct. 26; Gaz. vol. 219; p. 1107.
- Grating. C. B. Albee. No. 1,158,154; Oct. 26; Gaz. vol. 219; p. 1108.
- Grating. I. Benjamins. No. 1,140,657; May 25; Gaz. vol. 214; p. 1141.
- Grating. J. D. Coakley. No. 1,160,044; Nov. 9; Gaz. vol. 220; p. 606.
- Grating. A. Darroch. No. 1,150,746; Aug. 17; Gaz. vol. 217; p. 967.
- Grating. J. Mark and E. N. Mohl. No. 1,132,021; Mar. 16; Gaz. vol. 212; p. 831.
- Grating. J. Mark and E. N. Mohl. No. 1,140,692; May 25; Gaz. vol. 214; p. 1152.
- Grating device. E. Shipp. No. 1,124,818; Jan. 12; Gaz. vol. 210; p. 612.
- Grating-machine. H. Cremer. No. 1,141,694; June 1; Gaz. vol. 215; p. 216.
- Grave-filler. C. W. Kirby. No. 1,123,892; Jan. 5; Gaz. vol. 210; p. 236.
- Grave-filling machine. C. W. Kirby. No. 1,123,891; Jan. 5; Gaz. vol. 210; p. 236.
- Grave-mound frame. W. J. Early. No. 1,157,516; Oct. 19; Gaz. vol. 219; p. 823.
- Gravel and the like, Separator for removing vegetable growths and coarse material from. H. N. Potter. No. 1,134,555; Apr. 6; Gaz. vol. 213; p. 173.
- Gravel screening and washing machine. C. P. Biesanz. No. 1,141,169; June 1; Gaz. vol. 215; p. 28.
- Gravel-washing apparatus. L. E. Dierks and H. B. Sauerman. No. 1,165,077; Dec. 21; Gaz. vol. 221; p. 904.
- Gravity-carrier. C. B. Herzinger. No. 1,149,763; Aug. 10; Gaz. vol. 217; p. 560.
- Grease-cup. C. Brobst. No. 1,155,879; Oct. 5; Gaz. vol. 219; p. 193.
- Grease-cup. M. G. Brown. No. 1,141,101; June 1; Gaz. vol. 215; p. 4.
- Grease-cup. E. F. Burrow. No. 1,148,473; July 27; Gaz. vol. 216; p. 1293.
- Grease-cup. N. W. Cummins. No. 1,143,688; June 22; Gaz. vol. 215; p. 1012.
- Grease-cup. N. W. Cummins. No. 1,148,289; July 27; Gaz. vol. 216; p. 1229.
- Grease-cup. J. S. Dewey. No. 1,159,833; Nov. 9; Gaz. vol. 220; p. 533.
- Grease-cup. J. S. Goldberg. No. 1,164,499; Dec. 14; Gaz. vol. 221; p. 662.
- Grease-cup. G. J. Graham. No. 1,160,593; Nov. 16; Gaz. vol. 220; p. 853.

Alphabetical list of inventions—Continued.

- Grease-cup. F. Q. Hartman. No. 1,153,074; Sept. 7; Gaz. vol. 218; p. 251.
- Grease-cup. M. L. and M. Henry. No. 1,137,858; May 4; Gaz. vol. 214; p. 47.
- Grease-cup. E. R. MacAusland. No. 1,155,316; Sept. 28; Gaz. vol. 218; p. 1127.
- Grease-cup. J. F. MacIndoe. No. 1,159,517; Nov. 9; Gaz. vol. 220; p. 418.
- Grease-cup. J. G. Mastin. No. 1,141,720; June 1; Gaz. vol. 215; p. 224.
- Grease-cup. J. Matthews. No. 1,156,302; Oct. 12; Gaz. vol. 219; p. 363.
- Grease-cup. T. O. Organ. No. 1,156,804; Oct. 12; Gaz. vol. 219; p. 539.
- Grease-cup. A. R. Pribil. No. 1,149,539; Aug. 10; Gaz. vol. 217; p. 477.
- Grease-cup. A. R. Pribil. No. 1,150,146; Aug. 17; Gaz. vol. 217; p. 759.
- Grease-cup. A. R. Pribil. No. 1,163,850; Dec. 14; Gaz. vol. 221; p. 437.
- Grease-cup. A. H. Puthoff, T. O. Nunnally, and J. N. Ramsey. No. 1,161,338; Nov. 23; Gaz. vol. 220; p. 1164.
- Grease-cup. H. P. Robbins. No. 1,125,400; Jan. 19; Gaz. vol. 210; p. 857.
- Grease-cup. B. L. Robertson. No. 1,163,461; Dec. 7; Gaz. vol. 221; p. 254.
- Grease-cup. V. Shearer. No. 1,140,488; May 25; Gaz. vol. 214; p. 1083.
- Grease-cup. A. E. Toomey. No. 1,160,014; Nov. 9; Gaz. vol. 220; p. 596.
- Grease-cup. D. H. Twaits. No. 1,161,269; Nov. 23; Gaz. vol. 220; p. 1140.
- Grease-cup. F. E. Watts. No. 1,140,549; May 25; Gaz. vol. 214; p. 1105.
- Grease-cup. O. Zerk. No. 1,138,526; May 4; Gaz. vol. 214; p. 281.
- Grease-cup. O. Zerk. No. 1,138,527; May 4; Gaz. vol. 214; p. 281.
- Grease-cup, Automatic. A. M. Johnson. No. 1,161,313; Nov. 23; Gaz. vol. 220; p. 1156.
- Grease-cup, Automatic. P. B. Lee and J. F. Mac Indoe. No. 1,165,424; Dec. 28; Gaz. vol. 221; p. 1065.
- Grease-cup, Automatic. W. L. Stine. No. 1,142,283; June 8; Gaz. vol. 215; p. 457.
- Grease-cup-locking device. H. B. Andrews. No. 1,144,280; June 22; Gaz. vol. 215; p. 1219.
- Grease-cup, Lubricating. C. S. Rice. No. 1,132,120; Mar. 16; Gaz. vol. 212; p. 865.
- Grease-cup, Self-feeding. G. W. Beierly. No. 1,148,431; July 27; Gaz. vol. 216; p. 1279.
- Grease-cups, Cap-locking device for. W. F. Darby. No. 1,163,810; Dec. 14; Gaz. vol. 221; p. 423.
- Grease-gun for wheel-hubs. M. N. Ludlow. No. 1,149,660; Aug. 10; Gaz. vol. 217; p. 524.
- Grease lubricator. F. Lowry. No. 1,131,639; Mar. 9; Gaz. vol. 212; p. 659.
- Grease-trap. E. C. Kelly, Jr. No. 1,164,527; Dec. 14; Gaz. vol. 221; p. 673.
- Greaser, Hog. O. H. Cloyd. No. 1,142,798; June 15; Gaz. vol. 215; p. 676.
- Greasing-vent. L. H. Serry. No. 1,148,545; Aug. 3; Gaz. vol. 217; p. 22.
- Greenhouse. A. J. Stahelin. No. 1,142,539; June 8; Gaz. vol. 215; p. 548.
- Greenhouse construction. M. I. Jacobs. No. 1,166,219; Dec. 28; Gaz. vol. 221; p. 1346.
- Grenade. L. Roland. No. 1,126,871; Feb. 2; Gaz. vol. 211; p. 74.
- Grenade, Hand. G. Andrejcek and M. Salony. No. 1,151,433; Aug. 24; Gaz. vol. 217; p. 1257.
- Grid resistance. D. L. Lindquist. No. 1,162,788; Dec. 7; Gaz. vol. 221; p. 20.
- Griddle, Cake. G. W. Probst. No. 1,166,076; Dec. 28; Gaz. vol. 221; p. 1291.
- Gridiron, Folding. F. Paffrath. No. 1,130,760; Mar. 9; Gaz. vol. 212; p. 355.
- Grille-work, Machine for making. F. A. Korlasky. No. 1,139,775; May 18; Gaz. vol. 214; p. 795.
- Grinder. F. H. Lindner. No. 1,132,196; Mar. 16; Gaz. vol. 212; p. 893.
- Grinder. A. J. McCone. No. 1,163,246; Dec. 7; Gaz. vol. 221; p. 179.
- Grinder. M. W. Neuens. No. 1,162,304; Nov. 30; Gaz. vol. 220; p. 1548.
- Grinder. C. Schwartz. No. 1,159,108; Nov. 2; Gaz. vol. 220; p. 241.
- Grinder, Cylinder. L. E. Clawson. No. 1,154,378; Sept. 21; Gaz. vol. 218; p. 781.
- Grinder, Disk. F. N. and F. E. Gardner. No. 1,155,414; Oct. 5; Gaz. vol. 219; p. 32.
- Grinder, Food. N. P. Lucas. No. 1,155,749; Oct. 5; Gaz. vol. 219; p. 147.
- Grinder, Grain. W. J. Verity. No. 1,127,947; Feb. 9; Gaz. vol. 211; p. 492.
- Grinder, Internal. J. Wilson. No. 1,156,962; Oct. 19; Gaz. vol. 219; p. 626.
- Grinder, Lawn-mower. I. Meyer. No. 1,154,712; Sept. 28; Gaz. vol. 218; p. 922.
- Grinder, Pneumatic turbine. C. Perkins. No. 1,143,064; June 15; Gaz. vol. 215; p. 770.
- Grinder, Shear. J. H. Sheppard. No. 1,126,891; Feb. 2; Gaz. vol. 211; p. 80.
- Grinder, Stay. U. Murtera. No. 1,135,711; Apr. 13; Gaz. vol. 213; p. 620.
- Grinder structure. A. L. De Leeuw. No. 1,143,691; June 22; Gaz. vol. 215; p. 1012.
- Grinder, Tool. P. Schmidt. No. 1,130,112; Mar. 2; Gaz. vol. 212; p. 94.
- Grinder, Vertical-spindle disk. F. N. and F. E. Gardner. No. 1,145,189; July 6; Gaz. vol. 216; p. 75.
- Grinders, Governor for wood. T. Gregersen. No. 1,149,439; Aug. 10; Gaz. vol. 217; p. 443.
- Grinders, Press for attaching abrasive disks to the wheels of disk. F. N. and F. E. Gardner. No. 1,145,190; July 6; Gaz. vol. 216; p. 75.
- Grinding. J. E. Crandall. No. 1,131,119; Mar. 9; Gaz. vol. 212; p. 477.
- Grinding. C. R. King. No. 1,146,884; July 20; Gaz. vol. 216; p. 708.
- Grinding and mixing machines. Unloading device for. D. N. Carlin. No. 1,127,587; Feb. 9; Gaz. vol. 211; p. 362.
- Grinding and polishing machine. J. C. Blevney. No. 1,134,508; Apr. 6; Gaz. vol. 213; p. 155.
- Grinding and polishing machine. A. C. Boyle, Jr. No. 1,134,944; Apr. 6; Gaz. vol. 213; p. 307.
- Grinding and polishing machine. W. F. O'Rourke. No. 1,146,017; July 13; Gaz. vol. 216; p. 385.
- Grinding and polishing machine, Endless band. C. R. Townsend and R. C. Turner. No. 1,149,479; Aug. 10; Gaz. vol. 217; p. 456.
- Grinding and sharpening machine. G. L. Bourquin and R. Loeb. No. 1,149,991; Aug. 10; Gaz. vol. 217; p. 642.
- Grinding apparatus. H. K. Hitchcock. No. 1,151,785; Aug. 31; Gaz. vol. 217; p. 1426.
- Grinding apparatus. Sand. W. S. Bickley. No. 1,147,362; July 20; Gaz. vol. 216; p. 874.
- Grinding attachment. M. O. Cross. No. 1,147,214; July 20; Gaz. vol. 216; p. 824.
- Grinding balls and rollers, Machine for. G. Weeks. No. 1,166,286; Dec. 28; Gaz. vol. 221; p. 1370.
- Grinding balls, Machine for. O. Schmidt. No. 1,166,264; Dec. 28; Gaz. vol. 221; p. 1364.
- Grinding-block. W. H. Morse. No. 1,133,739; Mar. 30; Gaz. vol. 212; p. 1537.
- Grinding device. R. W. Coon. No. 1,164,474; Dec. 14; Gaz. vol. 221; p. 654.
- Grinding-disk. F. L. McKillip. No. 1,137,994; May 4; Gaz. vol. 214; p. 95.
- Grinding-disk. R. A. Reynolds. No. 1,131,272; Mar. 9; Gaz. vol. 212; p. 531.
- Grinding files, Machine for. W. H. Denley and B. Makin. No. 1,131,999; Mar. 16; Gaz. vol. 212; p. 822.
- Grinding-gage. A. L. Waddell. No. 1,149,311; Aug. 10; Gaz. vol. 217; p. 397.
- Grinding gear-wheels. R. Reinecker and M. Schönieber. No. 1,145,513; July 6; Gaz. vol. 216; p. 188.
- Grinding grain. M. Miller. No. 1,123,347; Jan. 5; Gaz. vol. 210; p. 52.
- Grinding in tube-mills. M. J. Davidsen. No. 1,164,264; Dec. 14; Gaz. vol. 221; p. 579.
- Grinding-machine. M. Berfield. No. 1,143,882; June 22; Gaz. vol. 215; p. 1077.
- Grinding-machine. J. A. Craig. No. 1,123,494; Jan. 5; Gaz. vol. 210; p. 101.
- Grinding-machine. J. W. Folscheid. No. 1,124,883; Jan. 12; Gaz. vol. 210; p. 636.
- Grinding-machine. F. M. Furber. No. 1,127,877; Feb. 9; Gaz. vol. 211; p. 467.
- Grinding-machine. W. D. Gherky. No. 1,161,653; Nov. 23; Gaz. vol. 220; p. 1273.
- Grinding-machine. J. J. Heys. No. 1,127,888; Feb. 9; Gaz. vol. 211; p. 471.
- Grinding-machine. E. R. Hyde and T. D. Adams. No. 1,133,476; Mar. 30; Gaz. vol. 212; p. 1441.
- Grinding-machine. A. E. Jerram. No. 1,127,443; Feb. 9; Gaz. vol. 211; p. 313.
- Grinding-machine. L. E. Johnson and S. Strom. No. 1,156,292; Oct. 12; Gaz. vol. 219; p. 359.
- Grinding-machine. R. K. McDougal. No. 1,131,398; Mar. 9; Gaz. vol. 212; p. 373.
- Grinding-machine. T. S. McGuire. No. 1,137,647; Apr. 27; Gaz. vol. 213; p. 1382.
- Grinding-machine. M. Mosler and C. Bartels. No. 1,153,510; Sept. 14; Gaz. vol. 218; p. 446.
- Grinding-machine. F. Müller. (Reissue.) No. 13,930; June 15; Gaz. vol. 215; p. 961.
- Grinding-machine. W. E. Nickerson. No. 1,126,839; Feb. 2; Gaz. vol. 211; p. 63.
- Grinding-machine. H. Nordvall. No. 1,130,011; Mar. 2; Gaz. vol. 212; p. 60.
- Grinding-machine. C. H. Norton. No. 1,150,222; Aug. 17; Gaz. vol. 217; p. 786.
- Grinding-machine. C. H. Norton. No. 1,164,745; Dec. 21; Gaz. vol. 221; p. 788.
- Grinding-machine. W. O. Platt. No. 1,148,533; Aug. 3; Gaz. vol. 217; p. 17.
- Grinding-machine. G. M. Point and C. H. Doebler. No. 1,149,288; Aug. 10; Gaz. vol. 217; p. 389.
- Grinding-machine. H. T. Shearer. No. 1,165,865; Dec. 21; Gaz. vol. 221; p. 1005.

Alphabetical list of inventions—Continued.

- Grinding-machine. U. Steiner. No. 1,145,816; July 6; Gaz. vol. 216; p. 294.
- Grinding-machine. U. Steiner. No. 1,156,254; Oct. 12; Gaz. vol. 219; p. 346.
- Grinding-machine. W. C. Stephenson and A. J. Drapalik. No. 1,156,504; Oct. 12; Gaz. vol. 219; p. 436.
- Grinding-machine. F. Stutzman. No. 1,160,784; Nov. 16; Gaz. vol. 220; p. 922.
- Grinding-machine. C. E. Van Norman. (Reissue.) No. 13,892; Mar. 16; Gaz. vol. 212; p. 1012.
- Grinding-machine. O. S. Walker. No. 1,162,832; Dec. 7; Gaz. vol. 221; p. 36.
- Grinding-machine. C. E. Walling. No. 1,143,337; June 15; Gaz. vol. 215; p. 866.
- Grinding machine. Ball. E. Hanus. No. 1,124,018; Jan. 5; Gaz. vol. 210; p. 278.
- Grinding-machine belt-tightener. W. S. Thomson. No. 1,137,033; Apr. 27; Gaz. vol. 213; p. 1165.
- Grinding machine. Cutter. A. R. Murray. No. 1,148,524; Aug. 3; Gaz. vol. 217; p. 14.
- Grinding machine. Cutter. A. R. Murray. No. 1,148,525; Aug. 3; Gaz. vol. 217; p. 14.
- Grinding machine. Disk. W. C. Osterholm. No. 1,139,569; May 18; Gaz. vol. 214; p. 723.
- Grinding-machine. Double-radius. C. F. Wall and F. Harker. No. 1,140,421; May 25; Gaz. vol. 214; p. 1057.
- Grinding-machine-driving mechanism. C. H. Norton. No. 1,161,957; Nov. 30; Gaz. vol. 220; p. 1427.
- Grinding-machine guard. M. Lund. No. 1,123,562; Jan. 5; Gaz. vol. 210; p. 124.
- Grinding machine. Knife. O. Fachman. No. 1,155,803; Oct. 5; Gaz. vol. 219; p. 168.
- Grinding machine. Saw. A. Elrod. No. 1,153,297; Sept. 14; Gaz. vol. 218; p. 366.
- Grinding machine. Saw. E. E. Henry. No. 1,146,705; July 13; Gaz. vol. 216; p. 625.
- Grinding machine. Spring. C. H. Erickson and J. P. Nystrom. No. 1,164,336; Dec. 14; Gaz. vol. 221; p. 606.
- Grinding machine. Surface. J. N. Heald and A. M. Drake. No. 1,138,289; May 4; Gaz. vol. 214; p. 198.
- Grinding-machine work-rest. H. T. Shearer. No. 1,163,041; Dec. 7; Gaz. vol. 221; p. 107.
- Grinding machine. Worm-thread. M. E. Noyes. No. 1,161,242; Nov. 23; Gaz. vol. 220; p. 1131.
- Grinding-machines. Cam-grinder attachment for. H. T. Shearer. No. 1,156,323; Oct. 12; Gaz. vol. 219; p. 369.
- Grinding-machines. Table-operating mechanism for. C. H. Norton. No. 1,150,221; Aug. 17; Gaz. vol. 217; p. 785.
- Grinding machines. Tool-holder for tool. T. Lumsden. No. 1,133,651; Mar. 30; Gaz. vol. 212; p. 1506.
- Grinding machines. Trimming mechanism for grinder-wheels of shaft. F. A. Ward. No. 1,155,532; Oct. 5; Gaz. vol. 219; p. 73.
- Grinding-machines. Wheel-feed for. C. H. Norton. No. 1,141,205; June 1; Gaz. vol. 215; p. 41.
- Grinding-machines. Work-holding attachment for. B. F. Clark. No. 1,155,213; Sept. 28; Gaz. vol. 218; p. 1094.
- Grinding mechanism. L. W. Parmer. No. 1,123,790; Jan. 5; Gaz. vol. 210; p. 203.
- Grinding-mill. F. Ansley. No. 1,147,067; July 20; Gaz. vol. 216; p. 772.
- Grinding-mill. F. Ansley. No. 1,147,068; July 20; Gaz. vol. 216; p. 772.
- Grinding-mill. R. N. Bailey. No. 1,123,217; Jan. 5; Gaz. vol. 210; p. 4.
- Grinding-mill. T. C. Cadwgan. No. 1,144,689; June 29; Gaz. vol. 215; p. 1385.
- Grinding-mill. A. M. Dellinger. No. 1,162,579; Nov. 30; Gaz. vol. 220; p. 1640.
- Grinding-mill. F. D. Giddings. No. 1,131,229; Mar. 9; Gaz. vol. 212; p. 515.
- Grinding-mill. F. D. Giddings. No. 1,131,230; Mar. 9; Gaz. vol. 212; p. 515.
- Grinding-mill. F. D. Giddings. No. 1,131,231; Mar. 9; Gaz. vol. 212; p. 516.
- Grinding-mill. F. D. Giddings. No. 1,131,232; Mar. 9; Gaz. vol. 212; p. 516.
- Grinding-mill. F. T. H. Goodwin. No. 1,134,842; Apr. 6; Gaz. vol. 213; p. 273.
- Grinding-mill. A. S. Hagerty. No. 1,164,808; Dec. 21; Gaz. vol. 221; p. 811.
- Grinding-mill. P. G. Hollstein. No. 1,153,918; Sept. 21; Gaz. vol. 218; p. 622.
- Grinding-mill. A. J. McCone. No. 1,163,245; Dec. 7; Gaz. vol. 221; p. 179.
- Grinding-mill. E. F. McCool. No. 1,137,224; Apr. 27; Gaz. vol. 213; p. 1235.
- Grinding-mill. J. Merritt. No. 1,141,898; June 1; Gaz. vol. 215; p. 285.
- Grinding-mill. S. Snyder. No. 1,146,030; July 13; Gaz. vol. 216; p. 390.
- Grinding-mill. R. M. Willson. No. 1,137,685; Apr. 27; Gaz. vol. 213; p. 1394.
- Grinding-mill and press. Combined. J. O. Rogers. No. 1,146,656; July 13; Gaz. vol. 216; p. 609.
- Grinding-mill bur. L. E. Gaisser. No. 1,126,976; Feb. 2; Gaz. vol. 211; p. 109.
- Grinding-mill feed-regulator. J. S. Fasting. No. 1,157,979; Oct. 26; Gaz. vol. 219; p. 1046.
- Grinding-mill feeding and blending mechanism. J. Merritt. No. 1,141,899; June 1; Gaz. vol. 215; p. 285.
- Grinding-mill feeding mechanism. W. P. Carson. No. 1,157,506; Oct. 19; Gaz. vol. 219; p. 819.
- Grinding-mill screening device. A. Wood. No. 1,129,773; Feb. 23; Gaz. vol. 211; p. 1209.
- Grinding-mill. Tubular. R. Steinbach. No. 1,130,644; Mar. 2; Gaz. vol. 212; p. 280.
- Grinding or crushing machinery. A. H. Moss. No. 1,154,532; Sept. 21; Gaz. vol. 218; p. 832.
- Grinding or lining plates. E. Posselt. No. 1,128,901; Feb. 16; Gaz. vol. 211; p. 872.
- Grinding or polishing gears. Means for. K. Alquist. No. 1,154,830; Sept. 28; Gaz. vol. 218; p. 963.
- Grinding, polishing, or buffing machine. C. B. Larson. No. 1,158,136; Oct. 26; Gaz. vol. 219; p. 1101.
- Grinding spherical surfaces. Machine-tool for. C. H. True. No. 1,128,918; Feb. 16; Gaz. vol. 211; p. 878.
- Grinding taper rolls. Machine for. H. C. Barnes. No. 1,128,091; Feb. 9; Gaz. vol. 211; p. 542.
- Grinding the bars of beating-rolls. Device for. H. R. Simonds. No. 1,163,273; Dec. 7; Gaz. vol. 221; p. 188.
- Grinding. Wet. H. E. Riisager. No. 1,126,085; Jan. 26; Gaz. vol. 210; p. 1133.
- Grinding-wheel. E. R. Hyde. No. 1,133,475; Mar. 30; Gaz. vol. 212; p. 1441.
- Grinding-wheel-trimming mechanism. W. F. Wagner. No. 1,123,437; Jan. 5; Gaz. vol. 210; p. 83.
- Grinding-wheel-trimming mechanism. F. A. Ward. No. 1,133,075; Mar. 23; Gaz. vol. 212; p. 1264.
- Grindstone foot-lever. H. Olstad. No. 1,144,375; June 29; Gaz. vol. 215; p. 1280.
- Grindstone-propelling mechanism. F. Santus. No. 1,152,228; Aug. 31; Gaz. vol. 217; p. 1580.
- Grindstone. Pulp. H. E. Bellerose. No. 1,142,296; June 8; Gaz. vol. 215; p. 462.
- Grindstones. Tool-holder for. K. C. Knudsen. No. 1,163,016; Dec. 7; Gaz. vol. 221; p. 98.
- Grip device. Intermittent. G. E. Judd. No. 1,128,325; Feb. 16; Gaz. vol. 211; p. 672.
- Grip device. Intermittent. O. E. Loomis. No. 1,136,821; Apr. 20; Gaz. vol. 213; p. 1053.
- Grip-handle. E. Felsberg. No. 1,125,280; Jan. 19; Gaz. vol. 210; p. 812.
- Grip or bag. Traveler's. H. L. Kennedy. No. 1,153,393; Sept. 14; Gaz. vol. 218; p. 403.
- Grip-slide retainer. G. Hammond. No. 1,133,281; Mar. 30; Gaz. vol. 212; p. 1373.
- Gripper. O. Ashton. No. 1,137,566; Apr. 27; Gaz. vol. 213; p. 1356.
- Gripper. A. M. Engle and S. B. Phillips. No. 1,129,185; Feb. 23; Gaz. vol. 211; p. 1007.
- Gripper mechanism. E. W. Cooper. No. 1,132,241; Mar. 16; Gaz. vol. 212; p. 911.
- Gripper, perforator, and creaser. S. S. Mitchell. No. 1,131,725; Mar. 16; Gaz. vol. 212; p. 721.
- Grippers and slitters or the like. Operating mechanism for. A. L. Russell. No. 1,125,886; Jan. 19; Gaz. vol. 210; p. 1026.
- Gripping and forging die. N. T. McKee. No. 1,151,601; Aug. 31; Gaz. vol. 217; p. 1364.
- Gripping device. W. C. Glass. No. 1,139,760; May 18; Gaz. vol. 214; p. 790.
- Gripping device. M. Herzog. No. 1,126,008; Jan. 26; Gaz. vol. 210; p. 1103.
- Gripping device. R. C. Smith. No. 1,138,902; May 11; Gaz. vol. 214; p. 453.
- Gripping device. E. Takken. No. 1,151,836; Aug. 31; Gaz. vol. 217; p. 1445.
- Grizzly. Revolving. R. C. Newhouse. No. 1,135,606; Apr. 13; Gaz. vol. 213; p. 583.
- Grocer's bin. W. B. Timmons. No. 1,150,317; Aug. 17; Gaz. vol. 217; p. 819.
- Gromet. G. S. Corbeil. No. 1,145,122; July 6; Gaz. vol. 216; p. 53.
- Gromet and washer. W. Shaw. No. 1,163,112; Dec. 7; Gaz. vol. 221; p. 132.
- Gromet-inserting machine. J. C. Blevney. No. 1,134,507; Apr. 6; Gaz. vol. 213; p. 154.
- Gromets and the like. Machine for setting. J. F. Davey. No. 1,139,645; May 18; Gaz. vol. 214; p. 750.
- Grooving-tool. W. Rothman. No. 1,158,725; Nov. 2; Gaz. vol. 220; p. 109.
- Grooving-tools. Guiding device for. J. A. Stone. No. 1,148,723; Aug. 3; Gaz. vol. 217; p. 86.
- Ground-breaking device. D. Erter. No. 1,147,492; July 20; Gaz. vol. 216; p. 921.
- Ground-clamp. W. H. Price. No. 1,135,717; Apr. 13; Gaz. vol. 213; p. 623.
- Ground-connector. W. H. Curry. No. 1,154,099; Sept. 21; Gaz. vol. 218; p. 685.
- Ground implement. W. F. Nolze and P. W. Foltz. No. 1,127,917; Feb. 9; Gaz. vol. 211; p. 480.
- Ground receiving outfit. C. E. Mellon. No. 1,163,839; Dec. 14; Gaz. vol. 221; p. 433.
- Ground-roller and clod-crusher. J. G. Bailey. No. 1,162,015; Nov. 30; Gaz. vol. 220; p. 1447.
- Ground-strip fastener. J. R. Spear and J. M. Beattie. No. 1,145,933; July 13; Gaz. vol. 216; p. 355.

Alphabetical list of inventions—Continued.

- Grounding device. L. S. Brach. No. 1,138,186; May 4; Gaz. vol. 214; p. 163.
- Grounding-points, Method of and means for equalizing the potentials of. A. B. Clark. No. 1,126,956; Feb. 2; Gaz. vol. 211; p. 102.
- Grout-carrier. E. N. Turner. No. 1,144,160; June 22; Gaz. vol. 215; p. 1177.
- Grout-carrier. E. N. Turner. No. 1,161,363; Nov. 23; Gaz. vol. 220; p. 1174.
- Grubber. J. M. Siders. No. 1,134,920; Apr. 6; Gaz. vol. 213; p. 298.
- Guano-distributor. J. D. May. Sr. No. 1,127,270; Feb. 2; Gaz. vol. 211; p. 213.
- Guano-distributor. R. W. Starling. No. 1,142,064; June 8; Gaz. vol. 215; p. 381.
- Guano-distributor and grain-drill. C. Hennessee. No. 1,140,266; May 18; Gaz. vol. 214; p. 968.
- Guard. T. Arbeiter. No. 1,132,147; Mar. 16; Gaz. vol. 212; p. 876.
- Guard. N. M. Baker. No. 1,132,760; Mar. 23; Gaz. vol. 212; p. 1149.
- Guard. T. B. Harris. No. 1,136,601; Apr. 20; Gaz. vol. 213; p. 975.
- Guard. W. C. Johnson. No. 1,132,853; Mar. 23; Gaz. vol. 212; p. 1184.
- Guard. G. W. Wood. No. 1,150,476; Aug. 17; Gaz. vol. 217; p. 874.
- Guard-finger. A. Benoit. No. 1,133,219; Mar. 23; Gaz. vol. 212; p. 1315.
- Gulde. R. C. Lawhead. No. 1,143,125; June 15; Gaz. vol. 215; p. 791.
- Guide-board. W. A. Fusch. No. 1,150,668; Aug. 17; Gaz. vol. 217; p. 941.
- Guitar, Double-bass. A. Shutt. No. 1,131,564; Mar. 9; Gaz. vol. 212; p. 630.
- Guitars, &c., Auxiliary vibrator for. J. Bohmann. No. 1,128,218; Feb. 9; Gaz. vol. 211; p. 584.
- Gum and obtaining same, Purified. W. H. Bradshaw. No. 1,133,790; Mar. 30; Gaz. vol. 212; p. 1556.
- Gum, Composition for chewing. M. M. Raub. No. 1,136,613; Apr. 20; Gaz. vol. 213; p. 979.
- Gum packing, Chewing. C. Lille. No. 1,132,781; Mar. 23; Gaz. vol. 212; p. 1157.
- Gum-wrapping machine, Chewing. F. B. Redington and M. J. Milmo. No. 1,133,668; Mar. 30; Gaz. vol. 212; p. 1513.
- Gun adapted to be fired at high elevations. K. Völler. No. 1,131,445; Mar. 9; Gaz. vol. 212; p. 590.
- Gun, Air. A. V. Dickey. No. 1,146,753; July 13; Gaz. vol. 216; p. 642.
- Gun, Air. W. J. Sproull. No. 1,152,447; Sept. 7; Gaz. vol. 218; p. 23.
- Gun, Automatic. K. Fitzpatrick. No. 1,161,384; Nov. 23; Gaz. vol. 220; p. 1182.
- Gun, Automatic. A. Miclaus, Jr. No. 1,136,695; Apr. 20; Gaz. vol. 213; p. 1008.
- Gun-barrel-locking device. W. O. Barnes. No. 1,137,045; Apr. 27; Gaz. vol. 213; p. 1169.
- Gun-barrels, Drill for boring. N. L. Ains. No. 1,144,088; June 22; Gaz. vol. 215; p. 1150.
- Gun-barrels, Slight-base for. T. C. Johnson. No. 1,164,285; Dec. 14; Gaz. vol. 221; p. 587.
- Gun, Breech-loading air. A. A. Karcher. No. 1,143,544; June 15; Gaz. vol. 215; p. 937.
- Gun-carriage, Wheeled. W. Hellemann and H. Kanonenberg. No. 1,138,949; May 11; Gaz. vol. 214; p. 469.
- Gun-carriage, Wheeled. N. Koch and G. Hayn. No. 1,137,763; May 4; Gaz. vol. 214; p. 14.
- Gun-cleaner. J. Havlicek and J. B. Soullane. No. 1,156,683; Oct. 12; Gaz. vol. 219; p. 499.
- Gun cleaner and protective device. I. L. Reeves. No. 1,164,665; Dec. 21; Gaz. vol. 221; p. 761.
- Gun-club scoring-machine. A. D. Crosley and A. R. Stenerson. No. 1,141,618; June 1; Gaz. vol. 215; p. 189.
- Gun flash-light attachment. J. P. Hise and W. H. Moyers. No. 1,144,656; June 29; Gaz. vol. 215; p. 1374.
- Gun for a given range according to the height of the target, Arrangement for automatically varying the elevation of. E. Müller. No. 1,143,428; June 15; Gaz. vol. 215; p. 899.
- Gun, Gas. D. Saylor. No. 1,164,876; Dec. 21; Gaz. vol. 221; p. 834.
- Gun, Grease. H. M. Davis. No. 1,165,156; Dec. 21; Gaz. vol. 221; p. 933.
- Gun, Grease. H. O. and W. L. Ekern. No. 1,129,184; Feb. 23; Gaz. vol. 211; p. 1006.
- Gun, Grease. H. W. and A. L. Fisher. No. 1,165,083; Dec. 21; Gaz. vol. 221; p. 906.
- Gun, Grease. W. Freeman. No. 1,127,751; Feb. 9; Gaz. vol. 211; p. 420.
- Gun, Grease. R. S. Hickish. No. 1,139,865; May 18; Gaz. vol. 214; p. 828.
- Gun, Grease. R. W. Kremer. No. 1,165,883; Dec. 28; Gaz. vol. 221; p. 1225.
- Gun loading apparatus, Breech-loading. A. Vickers and G. T. Buckham. No. 1,128,555; Feb. 16; Gaz. vol. 211; p. 751.
- Gun-loading apparatus, Heavy. A. T. Dawson and J. Horne. No. 1,157,682; Oct. 26; Gaz. vol. 219; p. 942.
- Gun, Long-recoil. C. Klette. No. 1,151,476; Aug. 24; Gaz. vol. 217; p. 1272.
- Gun, Machine. A. V. P. M. Berthier. No. 1,144,994; July 6; Gaz. vol. 216; p. 5.
- Gun, Machine. A. A. K. Heinemann. No. 1,123,530; Jan. 5; Gaz. vol. 210; p. 114.
- Gun, Machine. A. A. K. Heinemann. No. 1,128,310; Feb. 16; Gaz. vol. 211; p. 668.
- Gun, Machine. A. A. K. Heinemann. No. 1,150,364; Aug. 17; Gaz. vol. 217; p. 835.
- Gun, Machine. A. A. K. Heinemann. No. 1,155,061; Sept. 28; Gaz. vol. 218; p. 1041.
- Gun, Magazine. M. Glov. No. 1,164,498; Dec. 14; Gaz. vol. 221; p. 662.
- Gun, Magazine. G. A. Horne. No. 1,146,569; July 13; Gaz. vol. 216; p. 580.
- Gun-mount. A. Miclaus, Jr. No. 1,142,602; June 8; Gaz. vol. 215; p. 569.
- Gun-mounts, Axletree-anchoring device for mobile. H. Rabba. No. 1,162,101; Nov. 30; Gaz. vol. 220; p. 1477.
- Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,152,079; Aug. 31; Gaz. vol. 217; p. 1529.
- Gun-mounting. E. Schneider. No. 1,166,086; Dec. 28; Gaz. vol. 221; p. 1295.
- Gun-mountings and other mechanism, Control system for. A. T. Dawson and J. Horne. No. 1,143,948; June 22; Gaz. vol. 215; p. 1100.
- Gun-muffler. P. J. De Vries. No. 1,143,814; June 22; Gaz. vol. 215; p. 1054.
- Gun, Noiseless. J. C. Coulombe. No. 1,140,578; May 25; Gaz. vol. 214; p. 1113.
- Gun on wheeled gun-carriage, Recoil. H. Koch. No. 1,156,533; Oct. 12; Gaz. vol. 219; p. 446.
- Gun or rifle. W. M. Douglas. No. 1,141,383; June 1; Gaz. vol. 215; p. 107.
- Gun, Pistol-stock. F. H. High. No. 1,150,763; Aug. 17; Gaz. vol. 217; p. 973.
- Gun, Pop. R. B. Spencer. No. 1,149,698; Aug. 10; Gaz. vol. 217; p. 537.
- Gun-purging apparatus. W. J. Smart. No. 1,160,778; Nov. 16; Gaz. vol. 220; p. 920.
- Gun recoil mechanism. J. D. S. Haslett. No. 1,147,941; July 27; Gaz. vol. 216; p. 1105.
- Gun, Recoil-operated. J. Théofanidis. No. 1,127,942; Feb. 9; Gaz. vol. 211; p. 490.
- Gun-rest. J. H. Purcell. No. 1,147,890; July 27; Gaz. vol. 216; p. 1087.
- Gun, Sectional. H. Pervells. No. 1,163,450; Dec. 7; Gaz. vol. 221; p. 251.
- Gun-sight. C. H. Barnes. No. 1,161,280; Nov. 23; Gaz. vol. 220; p. 1144.
- Gun-sight. C. H. Barnes, J. O. Simpson, W. H. Steere, and W. F. Lawrence. No. 1,161,281; Nov. 23; Gaz. vol. 220; p. 1145.
- Gun-sight. D. J. Buchanan. No. 1,160,374; Nov. 16; Gaz. vol. 220; p. 775.
- Gun-sight. S. D. Shepard and M. Shappirio. No. 1,153,964; Sept. 21; Gaz. vol. 218; p. 638.
- Gun-sight. C. G. Svebilus and H. T. R. Hanitz. No. 1,150,791; Aug. 17; Gaz. vol. 217; p. 982.
- Gun-sight. W. L. Webb. No. 1,147,469; July 20; Gaz. vol. 216; p. 914.
- Gun-sight rib. E. F. Flues. No. 1,160,157; Nov. 16; Gaz. vol. 220; p. 701.
- Gun-sight, Telescope. O. Grauheding. No. 1,127,230; Feb. 2; Gaz. vol. 211; p. 200.
- Gun sighting device. H. Just. No. 1,158,926; Nov. 2; Gaz. vol. 220; p. 181.
- Gun, Spring. H. L. Cusick. No. 1,162,140; Nov. 30; Gaz. vol. 220; p. 1491.
- Gun, Spring. R. M. Shannon. No. 1,133,189; Mar. 23; Gaz. vol. 212; p. 1305.
- Gun, Spring air. C. F. Lefever. No. 1,136,470; Apr. 20; Gaz. vol. 213; p. 929.
- Gun training and elevating mechanism. J. F. Meigs and H. G. Jakobsson. No. 1,156,541; Oct. 12; Gaz. vol. 219; p. 448.
- Gun-triggers, Device for manipulating. E. G. Schmidt. No. 1,147,556; July 20; Gaz. vol. 216; p. 943.
- Gun with pivot-mount. J. Becker. No. 1,127,394; Feb. 9; Gaz. vol. 211; p. 295.
- Gun with reversible shoulder-piece. O. Knoch. No. 1,162,933; Dec. 7; Gaz. vol. 221; p. 68.
- Guns, Action for breakdown. A. P. Curtis. No. 1,160,581; Nov. 16; Gaz. vol. 220; p. 849.
- Guns, Automatic position-indicator for. W. Kilroy. No. 1,158,233; Oct. 26; Gaz. vol. 219; p. 1135.
- Guns, Breech mechanism of. B. Clarus. No. 1,143,612; June 22; Gaz. vol. 215; p. 986.
- Guns, Breech mechanism for. C. Schmid. No. 1,145,036; July 6; Gaz. vol. 216; p. 22.
- Guns, Casting. P. Gray. No. 1,124,726; Jan. 12; Gaz. vol. 210; p. 579.
- Guns, Cover or case for take-down. R. P. Saffold. No. 1,149,690; Aug. 10; Gaz. vol. 217; p. 534.
- Guns, Device for replacing and adjusting coils in field. J. Smith. No. 1,136,728; Apr. 20; Gaz. vol. 213; p. 1021.
- Guns, Fluid-brake for barrel-recoil. F. Stock. No. 1,159,543; Nov. 9; Gaz. vol. 220; p. 427.
- Guns, Foundation for movable. W. Hellemann and H. Kanonenberg. No. 1,146,070; July 13; Gaz. vol. 216; p. 403.

- Guns, Lock mechanism of breech-loading. A. T. Dawson and G. T. Buckham. No. 1,163,811; Dec. 14; Gaz. vol. 221; p. 423.
- Guns, Lock mechanism of breech-loading. A. T. Dawson and G. T. Buckham. No. 1,163,812; Dec. 14; Gaz. vol. 221; p. 424.
- Guns, Means for repairing worn rifled. J. C. Malster. No. 1,127,268; Feb. 2; Gaz. vol. 211; p. 212.
- Guns, Muzzle-support for. L. V. Benet and H. A. Mercié. No. 1,153,018; Sept. 7; Gaz. vol. 218; p. 234.
- Guns, Plunger-shaft for spring air. W. J. Burrows. No. 1,150,248; Aug. 17; Gaz. vol. 217; p. 797.
- Guns, Recoil-pad for. W. R. Jorgenson. No. 1,156,293; Oct. 12; Gaz. vol. 219; p. 360.
- Guns, Single-trigger mechanism for double-barrel. M. C. Sanderson. No. 1,140,003; May 18; Gaz. vol. 214; p. 877.
- Guns, Single-trigger mechanism for double-barrel. J. W. Smallman. No. 1,160,333; Nov. 16; Gaz. vol. 220; p. 761.
- Guns, Single-trigger mechanism for double-barreled. N. L. Beatty. No. 1,149,326; Aug. 10; Gaz. vol. 217; p. 403.
- Guns, Single-trigger mechanism for double-barreled. H. L. Williams. No. 1,142,003. June 8; Gaz. vol. 215; p. 358.
- Guns, Subcaliber attachment for. R. P. Saffold. No. 1,126,294; Jan. 26; Gaz. vol. 210; p. 1207.
- Guns with pivot-mount, Storing device for. O. Knoch. No. 1,127,451; Feb. 9; Gaz. vol. 211; p. 317.
- Guns with protecting-shield and telescopic sight, Device for taking aim with quick-firing. H. Jacob. No. 1,146,428; July 13; Gaz. vol. 216; p. 529.
- Gut and like cleaning machine. H. Nägele. No. 1,164,110; Dec. 14; Gaz. vol. 221; p. 527.
- Gutter. F. F. Noce. No. 1,141,204; June 1; Gaz. vol. 215; p. 40.
- Guy-ropes, Anchor-post for. E. Brune. No. 1,146,128; July 13; Gaz. vol. 216; p. 423.
- Gymnastic apparatus, Portable. S. L. Platt. No. 1,126,857; Feb. 2; Gaz. vol. 211; p. 69.
- Gymnastics, Apparatus for hygienic, medical, and orthopedic. M. O. Rossello. No. 1,164,217; Dec. 14; Gaz. vol. 221; p. 562.
- Gyratory crusher. T. L. Smith. No. 1,132,984; Mar. 23; Gaz. vol. 212; p. 1232.
- Gyro-compass. H. Usener. No. 1,136,566; Apr. 20; Gaz. vol. 213; p. 963.
- Gyroscope. J. Gardner. No. 1,136,666; Apr. 20; Gaz. vol. 213; p. 997.
- Gyroscope. P. Kortmann. No. 1,143,975; June 22; Gaz. vol. 215; p. 1109.
- Gyroscopic. P. Schilowsky. No. 1,137,234; Apr. 27; Gaz. vol. 213; p. 1239.
- Gyroscopic, Ship's. E. A. Sperry. No. 1,150,311; Aug. 17; Gaz. vol. 217; p. 817.
- Gyroscopic device. W. Dieter. No. 1,148,154; July 27; Gaz. vol. 216; p. 1182.
- Gyroscopic steering device. F. M. Leavitt. No. 1,145,025; July 6; Gaz. vol. 216; p. 17.
- Gyratory structures, Means for supporting and controlling. G. W. Combs. No. 1,152,396; Sept. 7; Gaz. vol. 218; p. 5.
- Hacking and spreading flax and other long-staple fibers, Apparatus for. J. V. Eves. No. 1,143,520; June 15; Gaz. vol. 215; p. 928.
- Hacking-machine for flax and other long-staple fibers. C. C. Cotton, H. C. Kennedy, and R. King. No. 1,132,448; Mar. 16; Gaz. vol. 212; p. 985.
- Hacksaw-blades, Lift for. A. Hutton. No. 1,150,004; Aug. 10; Gaz. vol. 217; p. 647.
- Hacksaw-frame, Quick-release. H. M. Whitcomb. No. 1,146,604; July 13; Gaz. vol. 216; p. 592.
- Hacksaw-hardening machine. C. L. Ericson. No. 1,150,511; Aug. 17; Gaz. vol. 217; p. 886.
- Hacksaw-holder. H. N. Wells. No. 1,154,465; Sept. 21; Gaz. vol. 218; p. 810.
- Hacksaw-machine. R. C. Berry. No. 1,138,927; May 11; Gaz. vol. 214; p. 461.
- Hacksaw, Power-. T. Humpage. No. 1,146,572; July 13; Gaz. vol. 216; p. 581.
- Hair, Cleaning. F. W. Harden. No. 1,147,720; July 27; Gaz. vol. 216; p. 1027.
- Hair-cleaning comb. G. E. Shaw. No. 1,159,424; Nov. 9; Gaz. vol. 220; p. 386.
- Hair-cleaning machine, Short-. W. H. Parks. No. 1,147,747; July 27; Gaz. vol. 216; p. 1037.
- Hair-clipper. M. Tanaka. No. 1,166,094; Dec. 28; Gaz. vol. 221; p. 1298.
- Hair-clipper, Power-driven. C. B. Beardsley. No. 1,123,980; Jan. 5; Gaz. vol. 210; p. 265.
- Hair-clippers, Power attachment for. S. M. Coffman and G. W. Moore. No. 1,165,945; Dec. 28; Gaz. vol. 221; p. 1246.
- Hair-coloring device. J. North. No. 1,127,496; Feb. 9; Gaz. vol. 211; p. 333.
- Hair-curler. H. I. Cameron. No. 1,151,659; Aug. 31; Gaz. vol. 217; p. 1383.
- Hair-curler, N. Iloway. No. 1,163,343; Dec. 7; Gaz. vol. 221; p. 214.
- Hair-curler. W. Knippenberg. No. 1,161,053; Nov. 23; Gaz. vol. 220; p. 1062.
- Hair-curler. M. W. Stoddard. No. 1,157,447; Oct. 19; Gaz. vol. 219; p. 799.
- Hair-curling apparatus. G. Kremer. No. 1,164,101; Dec. 14; Gaz. vol. 221; p. 524.
- Hair-cutting gage. J. Wright. No. 1,132,699; Mar. 23; Gaz. vol. 212; p. 1126.
- Hair-dressing apparatus. F. Savoureux. No. 1,145,035; July 6; Gaz. vol. 216; p. 21.
- Hair-dressing foundation. C. F. Porter. No. 1,160,956; Nov. 16; Gaz. vol. 220; p. 983.
- Hair-drier. W. L. Majors. No. 1,124,235; Jan. 5; Gaz. vol. 210; p. 355.
- Hair drying and curling comb. J. Cohn. No. 1,131,331; Mar. 9; Gaz. vol. 212; p. 551.
- Hair-drying comb. A. E. Cox. No. 1,153,196; Sept. 14; Gaz. vol. 218; p. 331.
- Hair-drying comb. C. Krieger. No. 1,145,492; July 6; Gaz. vol. 216; p. 181.
- Hair-drying device. G. L. Scheel. No. 1,137,792; May 4; Gaz. vol. 214; p. 24.
- Hair-drying frame. T. C. Randall. No. 1,141,826; June 1; Gaz. vol. 215; p. 258.
- Hair-fastener. G. A. Gleeson. No. 1,146,934; July 20; Gaz. vol. 216; p. 726.
- Hair-form. D. J. B. Luther. No. 1,138,494; May 4; Gaz. vol. 214; p. 271.
- Hair goods, Weaving-frame for. A. Rauch. No. 1,154,338; Sept. 21; Gaz. vol. 218; p. 767.
- Hair-holder. C. Wenzlick. No. 1,135,745; Apr. 13; Gaz. vol. 213; p. 632.
- Hair, Permanently waving. G. Kremer. No. 1,164,102; Dec. 14; Gaz. vol. 221; p. 524.
- Hair-pin. P. J. Decker. No. 1,135,672; Apr. 13; Gaz. vol. 213; p. 608.
- Hair-pin. C. H. Dempsey. No. 1,145,674; July 6; Gaz. vol. 216; p. 244.
- Hair-pin. S. H. Goldberg. No. 1,126,752; Feb. 2; Gaz. vol. 211; p. 31.
- Hair-pin. J. B. Ladd. No. 1,137,147; Apr. 27; Gaz. vol. 213; p. 1207.
- Hair-pin-making machine. I. H. Sisson. No. 1,162,952; Dec. 7; Gaz. vol. 221; p. 75.
- Hair-protecting device. E. E. Whittaker. No. 1,143,341; June 15; Gaz. vol. 215; p. 867.
- Hair-roll. R. H. Damon. No. 1,152,884; Sept. 7; Gaz. vol. 218; p. 185.
- Hair-skinning machine. F. W. Harden. No. 1,147,719; July 27; Gaz. vol. 216; p. 1027.
- Hair-spring-removing tool. W. M. Jones. No. 1,144,548; June 29; Gaz. vol. 215; p. 1338.
- Hair-transformer. J. J. Teugler. No. 1,133,196; Mar. 23; Gaz. vol. 212; p. 1307.
- Hair-waver. W. J. Brett. No. 1,139,398; May 11; Gaz. vol. 214; p. 626.
- Hair-waving device. D. B. Thomas. No. 1,148,415; July 27; Gaz. vol. 216; p. 1273.
- Hair yarn and the like, Curling. G. Crossland. No. 1,162,983; Dec. 7; Gaz. vol. 221; p. 86.
- Hairs, Mechanism for transferring. H. R. Sack. No. 1,153,522; Sept. 14; Gaz. vol. 218; p. 449.
- Halogen derivatives of organic compounds, Manufacture of. W. H. Perkin, C. Weizmann, and H. Davies. No. 1,144,237; June 22; Gaz. vol. 215; p. 1204.
- Halter. L. Curtis. No. 1,130,711; Mar. 9; Gaz. vol. 212; p. 338.
- Halter. O. C. Johnson. No. 1,138,115; May 4; Gaz. vol. 214; p. 140.
- Halter. N. D. Mertz. No. 1,136,693; Apr. 20; Gaz. vol. 213; p. 1007.
- Halter. C. J. Meyer. No. 1,124,054; Jan. 5; Gaz. vol. 210; p. 291.
- Ham, Compression-mold for boneless. M. J. McCracken. No. 1,139,550; May 18; Gaz. vol. 214; p. 716.
- Ham presser and cooker. C. Butz. No. 1,165,223; Dec. 21; Gaz. vol. 221; p. 957.
- Hame. H. C. Combes. No. 1,127,190; Feb. 2; Gaz. vol. 211; p. 185.
- Hame. N. Kelsay. No. 1,151,473; Aug. 24; Gaz. vol. 217; p. 1271.
- Hame. J. M. Peeples. No. 1,158,836; Nov. 2; Gaz. vol. 220; p. 151.
- Hame and trace connection. F. F. Hodges. No. 1,125,533; Jan. 19; Gaz. vol. 210; p. 901.
- Hame and trace connector. C. Blume. No. 1,126,946; Feb. 2; Gaz. vol. 211; p. 99.
- Hame and trace connector. P. S. Lassell. No. 1,140,688; May 25; Gaz. vol. 214; p. 1151.
- Hame-fastener. L. E. and T. J. Blunt. No. 1,161,443; Nov. 23; Gaz. vol. 220; p. 1202.
- Hame-fastener. J. R. Griffin. No. 1,133,856; Mar. 30; Gaz. vol. 212; p. 1580.
- Hame-fasteners and the like, Coupling member for. F. W. Covert. No. 1,149,248; Aug. 10; Gaz. vol. 217; p. 373.
- Hame-tug connection, Spring. A. and E. Boyd and L. Fal-lert. No. 1,149,332; Aug. 10; Gaz. vol. 217; p. 405.
- Hames, Adjustable draft. J. M. Hudson. No. 1,128,985; Feb. 16; Gaz. vol. 211; p. 902.
- Hames and collar, Combination. J. A. Broberg. No. 1,128,404; Feb. 16; Gaz. vol. 211; p. 698.
- Hames, Making. R. P. Carr. No. 1,132,513; Mar. 16; Gaz. vol. 212; p. 1010.

Alphabetical list of inventions—Continued.

- Hammer. N. Caron. No. 1,133,705; Mar. 30; Gaz. vol. 212; p. 1527.
- Hammer. A. Dewinsky. No. 1,166,041; Dec. 28; Gaz. vol. 221; p. 1279.
- Hammer. H. H. Frey. No. 1,125,999; Jan. 26; Gaz. vol. 210; p. 1100.
- Hammer. J. Guy and J. P. Huycke. No. 1,144,035; June 22; Gaz. vol. 215; p. 1132.
- Hammer. W. H. Haight. No. 1,159,583; Nov. 9; Gaz. vol. 220; p. 442.
- Hammer. V. T. Lynch. No. 1,139,303; May 11; Gaz. vol. 214; p. 592.
- Hammer. F. S. Schwab. No. 1,164,409; Dec. 14; Gaz. vol. 221; p. 631.
- Hammer, Automatic. C. S. Boden. No. 1,162,677; Nov. 30; Gaz. vol. 220; p. 1671.
- Hammer, Automatic. C. S. Boden. No. 1,162,678; Nov. 30; Gaz. vol. 220; p. 1671.
- Hammer, Automatic cleaning. A. N. Bragstad. No. 1,125,950; Jan. 26; Gaz. vol. 210; p. 1082.
- Hammer, Automatic magazine. W. and V. Y. Jacoby. No. 1,163,409; Dec. 7; Gaz. vol. 221; p. 236.
- Hammer, Bush. E. Cavicchi. No. 1,149,115; Aug. 3; Gaz. vol. 217; p. 220.
- Hammer, Claw. J. S. Rairden. No. 1,132,879; Mar. 23; Gaz. vol. 212; p. 1192.
- Hammer, Claw. G. W. Renton. No. 1,137,663; Apr. 27; Gaz. vol. 213; p. 1387.
- Hammer clutch, Pneumatic. S. Oldham. No. 1,141,206; June 1; Gaz. vol. 215; p. 41.
- Hammer, Crane trip. R. Bunts, Jr. No. 1,144,025; June 22; Gaz. vol. 215; p. 1129.
- Hammer-drill, Jack. S. Oldham. No. 1,141,650; June 1; Gaz. vol. 215; p. 201.
- Hammer-drills, Front-head construction for self-rotating. L. C. Bayles. No. 1,126,941; Feb. 2; Gaz. vol. 211; p. 97.
- Hammer-drills, Front-head construction for self-rotating. L. C. Bayles. No. 1,126,942; Feb. 2; Gaz. vol. 211; p. 97.
- Hammer, Drop. R. Grosdidier. No. 1,128,131; Feb. 9; Gaz. vol. 211; p. 555.
- Hammer, Electric. A. de Khotinsky. No. 1,140,447; May 25; Gaz. vol. 214; p. 1067.
- Hammer for fixing tire-treads. T. Midgley. No. 1,162,380; Nov. 30; Gaz. vol. 220; p. 1573.
- Hammer-handle attachment. E. E. Ellis. No. 1,142,946; June 15; Gaz. vol. 215; p. 728.
- Hammer-head. L. G. Johnson. No. 1,157,545; Oct. 19; Gaz. vol. 219; p. 832.
- Hammer, Magazine. H. A. Faulkner. No. 1,135,784; Apr. 13; Gaz. vol. 213; p. 644.
- Hammer, Mechanical. G. H. Coates. No. 1,124,393; Jan. 12; Gaz. vol. 210; p. 459.
- Hammer, Mechanical. H. Jost. No. 1,123,547; Jan. 5; Gaz. vol. 210; p. 120.
- Hammer-mill, Adjustable. G. S. Tebbetts, Jr. No. 1,139,920; May 18; Gaz. vol. 214; p. 847.
- Hammer, Nail-set. E. C. Hulse. No. 1,143,277; June 15; Gaz. vol. 215; p. 845.
- Hammer, Percussion. E. L. Upson and H. W. Pleister. No. 1,163,711; Dec. 14; Gaz. vol. 221; p. 387.
- Hammer, Pneumatic. R. B. Crump. No. 1,128,416; Feb. 16; Gaz. vol. 211; p. 702.
- Hammer, Pneumatic. D. T. Lelois. No. 1,138,877; May 11; Gaz. vol. 214; p. 445.
- Hammer, Pneumatic. W. F. Schmidt. No. 1,124,096; Jan. 26; Gaz. vol. 210; p. 1137.
- Hammer, Pneumatic. M. Shaner. No. 1,155,282; Sept. 28; Gaz. vol. 218; p. 1115.
- Hammer, Pneumatic. J. J. Sheehan. No. 1,126,890; Feb. 2; Gaz. vol. 211; p. 79.
- Hammer, Power. W. J. Gamble. No. 1,151,005; Aug. 24; Gaz. vol. 217; p. 1114.
- Hammer, Power. E. Nystrom. No. 1,128,490; Feb. 16; Gaz. vol. 211; p. 728.
- Hammer, Power. L. Pierce. No. 1,158,839; Nov. 2; Gaz. vol. 220; p. 151.
- Hammer, Power. W. G. Shults. No. 1,145,168; July 6; Gaz. vol. 216; p. 68.
- Hammer, Power. H. C. Smith. No. 1,154,666; Sept. 28; Gaz. vol. 218; p. 908.
- Hammer, Power. H. C. Smith. No. 1,154,667; Sept. 28; Gaz. vol. 218; p. 909.
- Hammer, Power. L. E. Summers. No. 1,161,907; Nov. 30; Gaz. vol. 220; p. 1409.
- Hammer, Power-operated. W. S. Payne. No. 1,158,270; Oct. 26; Gaz. vol. 219; p. 1147.
- Hammer, Spring. H. T. Goss. No. 1,158,678; Nov. 2; Gaz. vol. 220; p. 94.
- Hammer, Spring-actuated. F. D. Shepherd, C. Pauli, and H. W. Pleister. No. 1,163,714; Dec. 14; Gaz. vol. 221; p. 388.
- Hammer, Spring-actuated. E. L. Upson and H. W. Pleister. No. 1,163,715; Dec. 14; Gaz. vol. 221; p. 389.
- Hammers, Carriage for pneumatic. H. Meyer and M. Eberhardt. No. 1,160,636; Nov. 16; Gaz. vol. 220; p. 870.
- Hammers, Combined tool and bushing for pneumatic. E. Gregory. No. 1,160,507; Nov. 16; Gaz. vol. 220; p. 822.
- Hammers, Drill-rotating means for percussion. E. L. Upson and H. W. Pleister. No. 1,163,713; Dec. 14; Gaz. vol. 221; p. 388.
- Hammers, Drill-rotating mechanism for percussion. E. L. Upson and H. W. Pleister. No. 1,163,712; Dec. 14; Gaz. vol. 221; p. 387.
- Hammers, Nail-holding attachment for. N. C. Gore. No. 1,133,277; Mar. 30; Gaz. vol. 212; p. 1372.
- Hammock. S. W. Wagner. No. 1,136,986; Apr. 27; Gaz. vol. 213; p. 1147.
- Hammock and hammock attachment. D. G. and A. P. Ashworth. No. 1,156,200; Oct. 12; Gaz. vol. 219; p. 328.
- Hammock and like chair. A. P. R. Willis. No. 1,125,425; Jan. 19; Gaz. vol. 210; p. 865.
- Hammock attachment. W. W. Bradshaw. No. 1,145,290; July 6; Gaz. vol. 216; p. 109.
- Hammock attachments, Supporting-bracket for couch. I. E. Palmer. No. 1,161,408; Nov. 23; Gaz. vol. 220; p. 1191.
- Hammock-canopy. C. Gordon. No. 1,138,210; May 4; Gaz. vol. 214; p. 170.
- Hammock-cot. F. B. Wersel, Jr. No. 1,138,820; May 11; Gaz. vol. 214; p. 425.
- Hammock, Couch. W. M. Ferber. No. 1,147,385; July 20; Gaz. vol. 216; p. 884.
- Hammock, Couch. W. M. Ferber. No. 1,153,680; Sept. 14; Gaz. vol. 218; p. 504.
- Hammock, Couch. W. B. Foster. No. 1,126,744; Feb. 2; Gaz. vol. 211; p. 28.
- Hammock, Couch. I. E. Palmer. No. 1,130,193; Mar. 2; Gaz. vol. 212; p. 123.
- Hammock, Folding baby. T. Nesom. No. 1,161,405; Nov. 23; Gaz. vol. 220; p. 1189.
- Hammock-stand. W. A. Manchec. No. 1,156,421; Oct. 12; Gaz. vol. 219; p. 407.
- Hammock-support. L. I. Beckwith. No. 1,163,637; Dec. 14; Gaz. vol. 221; p. 360.
- Hammock-support. W. A. Poulnot. No. 1,128,625; Feb. 16; Gaz. vol. 211; p. 775.
- Hamper. E. Hill. No. 1,141,638; June 1; Gaz. vol. 215; p. 196.
- Hamper, Sanitary clothes. A. H. Hamilton. No. 1,130,509; Mar. 2; Gaz. vol. 212; p. 235.
- Hand, Artificial. J. F. Rowley. No. 1,161,344; Nov. 23; Gaz. vol. 220; p. 1167.
- Hand-bag. G. Macaulay. No. 1,164,833; Dec. 21; Gaz. vol. 221; p. 820.
- Hand-bag. A. Spiro. No. 1,152,346; Aug. 31; Gaz. vol. 217; p. 1621.
- Hand-bag, Alarm. G. P. Helmers. No. 1,148,773; Aug. 3; Gaz. vol. 217; p. 105.
- Hand-bag, &c. and framing the same. L. A. Samstag. No. 1,153,958; Sept. 21; Gaz. vol. 218; p. 636.
- Hand-bag and seat, Combined. K. V. Minehart. No. 1,140,997; May 25; Gaz. vol. 214; p. 1260.
- Hand-bag, Collapsible. M. Despot. No. 1,166,336; Dec. 28; Gaz. vol. 221; p. 1388.
- Hand-bag, Folding. N. Bushwick. No. 1,137,047; Apr. 27; Gaz. vol. 213; p. 1170.
- Hand-bag, Folding. N. Bushwick. No. 1,143,171; June 15; Gaz. vol. 215; p. 807.
- Hand-bag, Folding. S. J. Prokesch. No. 1,148,404; July 27; Gaz. vol. 216; p. 1270.
- Hand-bags, attaché-cases, and the like, Safety-catch for. A. B. Hawes and J. Wheeler. No. 1,163,534; Dec. 7; Gaz. vol. 221; p. 279.
- Hand-bags, purses, &c., Powder-puff attachment for. A. Bienenzucht. No. 1,150,737; Aug. 17; Gaz. vol. 217; p. 964.
- Hand brake mechanism. H. Mausk. No. 1,155,328; Sept. 28; Gaz. vol. 218; p. 1131.
- Hand-clamp. L. F. Pederson. No. 1,150,962; Aug. 24; Gaz. vol. 217; p. 1100.
- Hand drill. J. Buscavage. No. 1,140,572; May 25; Gaz. vol. 214; p. 1112.
- Hand-hole covers, Protector for. F. Webb. No. 1,130,779; Mar. 9; Gaz. vol. 212; p. 361.
- Hand or steering wheel. J. Younger. No. 1,142,780; June 8; Gaz. vol. 215; p. 630.
- Hand-rake. J. G. Harris and R. H. Hill. No. 1,160,282; Nov. 16; Gaz. vol. 220; p. 743.
- Hand-support, Antifriction. O. C. Knipe. No. 1,154,188; Sept. 21; Gaz. vol. 218; p. 714.
- Hand-washer. E. W. Salkeld. No. 1,135,402; Apr. 13; Gaz. vol. 213; p. 510.
- Handcuff. J. H. Wesson. No. 1,161,562; Nov. 23; Gaz. vol. 220; p. 1244.
- Handcuff. J. H. Wesson and E. S. Pomeroy. No. 1,157,135; Oct. 19; Gaz. vol. 219; p. 687.
- Handkerchief. M. K. Potter. No. 1,149,946; Aug. 10; Gaz. vol. 217; p. 626.
- Handkerchief-cooling device. J. C. Dolgonas. No. 1,151,573; Aug. 31; Gaz. vol. 217; p. 1353.

*Alphabetical list of inventions—Continued.***Handle: See—**

Air-brake handle.
Air-brake-coupling handle.
 Box-handle.
 Brake-handle.
 Broom-handle.
 Brush-handle.
 Casket-handle.
 Cock-handle.
 Cooking-vessel handle.
 Crank-handle.
 Culinary-vessel handle.
 Detachable handle.
 Door-handle.
 Flower-pot handle.
 Furnace-door handle.
 Grip-handle.
 Insulated handle.
 Mattress-handle.
Package-carrying handle.
 Handle. M. E. Silverthorn. No. 1,153,718; Sept. 14; Gaz. vol. 218; p. 519.
 Handle-attaching means. G. Oravetz. No. 1,141,001; May 25; Gaz. vol. 214; p. 1261.
 Handle-bar. E. J. Cortines. No. 1,140,119; May 18; Gaz. vol. 214; p. 919.
 Handle-bar. M. M. Deem. No. 1,146,692; July 13; Gaz. vol. 216; p. 621.
 Handle-bar grip. T. F. Stanton. No. 1,165,142; Dec. 21; Gaz. vol. 221; p. 930.
 Handle connection. W. H. Hammond. No. 1,130,272; Mar. 2; Gaz. vol. 212; p. 150.
 Handle connection. E. Nahr. No. 1,142,837; June 15; Gaz. vol. 215; p. 689.
 Handle-covering. W. A. Darling. No. 1,133,622; Mar. 30; Gaz. vol. 212; p. 1496.
 Handle-covering. W. E. Zimmerman. No. 1,165,484; Dec. 28; Gaz. vol. 221; p. 1085.
 Handle-die guard. W. E. Small. No. 1,145,811; July 6; Gaz. vol. 216; p. 292.
 Handle-fastener. D. Sullivan. No. 1,124,073; Jan. 5; Gaz. vol. 210; p. 297.
 Handle for illuminative diagnostic and surgical instruments. R. H. Wappler. No. 1,158,600; Nov. 2; Gaz. vol. 220; p. 68.
 Handle for illuminative diagnostic and surgical instruments. R. H. Wappler. No. 1,162,198; Nov. 30; Gaz. vol. 220; p. 1511.
 Handle for suit-boxes and analogous receptacles. S. B. Campbell. No. 1,144,637; June 29; Gaz. vol. 215; p. 1367.
 Handle-grip. R. B. Brown. No. 1,139,843; May 18; Gaz. vol. 214; p. 820.
 Handle-lock. A. C. Will. No. 1,134,792; Apr. 6; Gaz. vol. 213; p. 259.
 Handle-locking device. C. E. Fairbanks. No. 1,165,658; Dec. 28; Gaz. vol. 221; p. 1147.
 Handle-machine. H. J. Duncan. No. 1,160,699; Nov. 16; Gaz. vol. 220; p. 894.
 Handle or lever. A. Sinnes. No. 1,153,966; Sept. 21; Gaz. vol. 218; p. 638.
 Handle-protector. J. Holik. No. 1,128,871; Feb. 16; Gaz. vol. 211; p. 860.
 Handle structure. P. G. Jacobson. No. 1,156,601; Oct. 12; Gaz. vol. 219; p. 469.
 Handle-switch. J. Elia. No. 1,127,973; Feb. 9; Gaz. vol. 211; p. 500.
 Handle-turning machine. F. A. Carney. No. 1,147,372; July 20; Gaz. vol. 216; p. 879.
 Handles for tools and the like, inside-trimming machine for trimming wooden. J. C. Kimerer. No. 1,128,610; Feb. 16; Gaz. vol. 211; p. 769.
 Handles, Making reinforced. E. C. Holton. No. 1,128,251; Feb. 9; Gaz. vol. 211; p. 596.
 Handles to containers, Means for attaching. O. M. Mathisen. No. 1,142,112; June 8; Gaz. vol. 215; p. 398.
 Handling articles, Machine for. A. Bates. No. 1,142,136; June 8; Gaz. vol. 215; p. 406.
 Handling materials, Apparatus for. F. H. Kindl. No. 1,142,968; June 15; Gaz. vol. 215; p. 735.
 Handsaw. G. D. Young. No. 1,151,078; Aug. 24; Gaz. vol. 217; p. 1139.
 Handsaw attachment. W. E. Faye. No. 1,127,749; Feb. 9; Gaz. vol. 211; p. 420.
 Handsaw, Portable circular. L. H. Martin. No. 1,133,443; Mar. 30; Gaz. vol. 212; p. 1431.

Hanger: See—

Awning-hanger.
 Bolster-hanger.
 Book-hanger.
 Brake-hanger.
 Cable-hanger.
 Car-door hanger.
 Catenary hanger.
 Centrifugal hanger.
 Clothes-hanger.
 Clothes-line hanger.
 Coat and hat hanger.
 Coat, hat, and pants hanger.
 Corn-hanger.
 Curtain-hanger.
 Display-hanger.
 Door-hanger.
 Drapery-hanger.
 Drill-hanger.
 Eaves-trough hanger.
 Electric-light hanger.
 Elevator-door hanger.
 Fishing-pole hanger.
 Folding hanger.
 Garment-hanger.
 Garment and hat hanger.

Hanger—Continued.

Gate-hanger.
 Harness-hanger.
 Hat-hanger.
 Lamp-hanger.
 Light - reflecting - bowl hanger.
 Outlet-box hanger.
 Picture-hanger.
 Pipe-hanger.
 Pipe and cable hanger.
 Portière or curtain hanger.
 Rug-hanger.
 Sash-hanger.
 Scabbard or holster hanger.
 Scaffold-hanger.
 Screen-hanger.
 Hanger. E. J. Dakin. No. 1,139,464; May 11; Gaz. vol. 214; p. 651.
 Hanger. C. A. Sweet. No. 1,156,380; Oct. 12; Gaz. vol. 219; p. 392.
 Hanger. T. P. Woodhead. No. 1,147,774; July 27; Gaz. vol. 216; p. 1045.
 Hanger-bar and body-loop. F. E. Wilcox. No. 1,130,869; Mar. 9; Gaz. vol. 212; p. 392.
 Hanger-bars, Means for attaching body-loops to. F. E. Wilcox. No. 1,164,042; Dec. 14; Gaz. vol. 221; p. 504.
 Hanger-rack. E. O. Gilmore. No. 1,161,934; Nov. 30; Gaz. vol. 220; p. 1419.
 Hardening apparatus. F. Schönemann. No. 1,137,293; Apr. 27; Gaz. vol. 213; p. 1261.
 Hardness, Machine for testing. T. Olsen. No. 1,141,881; June 1; Gaz. vol. 215; p. 277.
 Hardness, Method of and apparatus for testing. A. Ringland and F. H. Schoenfuss. No. 1,125,912; Jan. 19; Gaz. vol. 210; p. 1036.
 Harmonic attachment. J. H. Trostel. No. 1,164,431; Dec. 14; Gaz. vol. 221; p. 639.
 Harness. A. F. Crowell. No. 1,136,894; Apr. 20; Gaz. vol. 213; p. 1078.
 Harness. L. A. Gilson. No. 1,146,562; July 13; Gaz. vol. 216; p. 577.
 Harness. M. O. Rolstad. No. 1,155,165; Sept. 28; Gaz. vol. 218; p. 1079.
 Harness. F. Searle. No. 1,161,738; Nov. 23; Gaz. vol. 220; p. 1302.
 Harness. O. J. Staffanson. No. 1,125,200; Jan. 19; Gaz. vol. 210; p. 783.
 Harness. N. C. Weimer. No. 1,131,301; Mar. 9; Gaz. vol. 212; p. 541.
 Harness attachment. C. Johnson. No. 1,157,544; Oct. 19; Gaz. vol. 219; p. 831.
 Harness attachment. J. T. Palmatory. No. 1,158,833; Nov. 2; Gaz. vol. 220; p. 150.
 Harness attachment. C. E. Wheeler. No. 1,139,829; May 18; Gaz. vol. 214; p. 815.
 Harness attachment, Sanitary. G. S. Horluch. No. 1,162,359; Nov. 30; Gaz. vol. 220; p. 1566.
 Harness-bit. F. R. Walter. No. 1,129,255; Feb. 23; Gaz. vol. 211; p. 1031.
 Harness for children, Safety-. M. M. Hallett. No. 1,123,278; Jan. 5; Gaz. vol. 210; p. 26.
 Harness for oxen and cattle, Draft-. D. M. Kennedy. No. 1,152,737; Sept. 7; Gaz. vol. 218; p. 132.
 Harness-hanger. F. K. Core. No. 1,145,561; July 6; Gaz. vol. 216; p. 204.
 Harness-hanger. R. R. Stafford. No. 1,136,286; Apr. 20; Gaz. vol. 213; p. 862.
 Harness-hook. J. V. Fisher. No. 1,163,649; Dec. 14; Gaz. vol. 221; p. 364.
 Harness-pad. D. H. Carrigan. No. 1,129,847; Mar. 2; Gaz. vol. 212; p. 5.
 Harness socket attachment. A. H. Westerman. No. 1,129,148; Feb. 23; Gaz. vol. 211; p. 994.
 Harness-support for drawing-in machines. E. F. Hathaway and C. Lea. No. 1,150,595; Aug. 17; Gaz. vol. 217; p. 916.
 Harness-trimming. I. McKnight. No. 1,157,562; Oct. 19; Gaz. vol. 219; p. 836.
 Harness, Two-collar. L. W. Hammond. No. 1,153,908; Sept. 21; Gaz. vol. 218; p. 619.
 Harp. M. A. Clark. No. 1,133,616; Mar. 30; Gaz. vol. 212; p. 1493.
 Harp. W. I. Kirk. No. 1,134,207; Apr. 6; Gaz. vol. 213; p. 45.
 Harp-harness. M. A. Clark. No. 1,133,615; Mar. 30; Gaz. vol. 212; p. 1493.
 Harp-neck. W. I. Kirk. No. 1,153,317; Sept. 14; Gaz. vol. 218; p. 374.
 Harrow. A. Andersen. No. 1,145,653; July 6; Gaz. vol. 216; p. 237.
 Harrow. A. L. Arney. No. 1,162,013; Nov. 30; Gaz. vol. 220; p. 1446.
 Harrow. J. W. Barnard. No. 1,140,238; May 18; Gaz. vol. 214; p. 958.
 Harrow. T. V. Barnard. No. 1,128,283; Feb. 16; Gaz. vol. 211; p. 659.
 Harrow. E. H. Bawel. No. 1,140,564; May 25; Gaz. vol. 214; p. 1110.
 Harrow. R. L. Boehne. No. 1,127,169; Feb. 2; Gaz. vol. 211; p. 178.

Screen and storm-sash hanger.
 Shade-hanger.
 Shade and curtain-pole hanger.
 Shade-roller hanger.
 Shaft-hanger.
 Shock-absorber hanger.
 Skirt-hanger.
 Stanchion-hanger.
 Suit-hanger.
 Track-hanger.
 Trolley-hanger.
 Trolley-line hanger.
 Trolley-wire hanger.
 Trolley-wire lock-hanger.

Alphabetical list of inventions—Continued.

- Harrow. H. D. and F. A. Bokop. No. 1,128,285; Feb. 16; Gaz. vol. 211; p. 659.
- Harrow. J. H. Brown. No. 1,125,808; Jan. 19; Gaz. vol. 210; p. 1000.
- Harrow. V. Calhoun. No. 1,148,352; July 27; Gaz. vol. 216; p. 1253.
- Harrow. E. P. Cannedy. No. 1,153,027; Sept. 7; Gaz. vol. 218; p. 236.
- Harrow. W. I. Drummond. No. 1,165,857; Dec. 28; Gaz. vol. 221; p. 1215.
- Harrow. F. T. F. Evans. No. 1,136,661; Apr. 20; Gaz. vol. 213; p. 996.
- Harrow. C. E. Forkner. No. 1,163,227; Dec. 7; Gaz. vol. 221; p. 172.
- Harrow. L. E. Hansen. No. 1,144,125; June 22; Gaz. vol. 215; p. 1164.
- Harrow. E. S. Hubbard. No. 1,138,112; May 4; Gaz. vol. 214; p. 138.
- Harrow. J. W. Lewis. No. 1,157,706; Oct. 26; Gaz. vol. 219; p. 951.
- Harrow. B. T. Locke. No. 1,128,159; Feb. 9; Gaz. vol. 211; p. 565.
- Harrow. O. Lundgren. No. 1,151,888; Aug. 31; Gaz. vol. 217; p. 1463.
- Harrow. S. J. McCall. No. 1,137,644; Apr. 27; Gaz. vol. 213; p. 1382.
- Harrow. C. W. Michael. No. 1,156,611; Oct. 12; Gaz. vol. 219; p. 473.
- Harrow. A. A. and W. Nelson. No. 1,148,790; Aug. 3; Gaz. vol. 217; p. 111.
- Harrow. E. Olson. No. 1,136,043; Apr. 20; Gaz. vol. 213; p. 777.
- Harrow. C. L. Peck. No. 1,166,249; Dec. 28; Gaz. vol. 221; p. 1358.
- Harrow. M. J. Richard. No. 1,134,639; Apr. 6; Gaz. vol. 213; p. 204.
- Harrow. C. S. Sharp. No. 1,157,812; Oct. 26; Gaz. vol. 219; p. 986.
- Harrow. J. M. D. Singleton. No. 1,131,566; Mar. 9; Gaz. vol. 212; p. 631.
- Harrow. G. W. Stubblefield. No. 1,165,213; Dec. 21; Gaz. vol. 221; p. 954.
- Harrow. W. B. Taylor. No. 1,147,907; July 27; Gaz. vol. 216; p. 1093.
- Harrow. L. E. Waterman. No. 1,137,934; May 4; Gaz. vol. 214; p. 73.
- Harrow. J. L. Wenman. No. 1,137,560; Apr. 27; Gaz. vol. 213; p. 1354.
- Harrow. C. E. White. No. 1,134,654; Apr. 6; Gaz. vol. 213; p. 209.
- Harrow and cultivator. W. W. Davis. No. 1,142,081; June 8; Gaz. vol. 215; p. 387.
- Harrow and cultivator. S. D. Poole. No. 1,138,971; May 11; Gaz. vol. 214; p. 477.
- Harrow and cultivator. Combined. E. Anderson. No. 1,155,192; Sept. 28; Gaz. vol. 218; p. 1089.
- Harrow and the like. P. B. Holdridge. No. 1,146,072; July 13; Gaz. vol. 216; p. 404.
- Harrow attachment. W. V. Meek. No. 1,124,317; Jan. 12; Gaz. vol. 210; p. 431.
- Harrow attachment. W. H. Ruth. No. 1,143,785; June 22; Gaz. vol. 215; p. 1043.
- Harrow attachment. Disk. C. R. Clare. No. 1,124,703; Jan. 12; Gaz. vol. 210; p. 571.
- Harrow boxing. Disk. J. A. Reinier. No. 1,160,757; Nov. 16; Gaz. vol. 220; p. 913.
- Harrow-cart. J. J. S. O'Connor. No. 1,124,321; Jan. 12; Gaz. vol. 210; p. 433.
- Harrow-cart. C. O. Plummer. No. 1,131,547; Mar. 9; Gaz. vol. 212; p. 625.
- Harrow. Disk. A. E. Buchanan and H. Gaffney. No. 1,162,832; Nov. 30; Gaz. vol. 220; p. 1557.
- Harrow. Disk. C. A. Farnham. No. 1,135,508; Apr. 13; Gaz. vol. 213; p. 548.
- Harrow. Disk. W. S. Graham. No. 1,125,514; Jan. 19; Gaz. vol. 210; p. 894.
- Harrow. Disk. J. H. Imus. No. 1,156,843; Oct. 12; Gaz. vol. 219; p. 554.
- Harrow. Disk. F. N. Trissel. No. 1,147,281; July 20; Gaz. vol. 216; p. 846.
- Harrow-disk. Skeleton. E. M. Kramer. (Reissue.) No. 1,385; Feb. 23; Gaz. vol. 211; p. 1233.
- Harrow draft appliance. J. H. Brown. No. 1,124,848; Jan. 12; Gaz. vol. 210; p. 623.
- Harrow. Drag. F. Kramer. No. 1,141,467; June 1; Gaz. vol. 215; p. 137.
- Harrow-elevator. A. R. Keeler. No. 1,158,043; Nov. 2; Gaz. vol. 220; p. 219.
- Harrow. Extension-. J. L. Glawson. No. 1,141,330; June 1; Gaz. vol. 215; p. 86.
- Harrow. Flexible. F. C. Warne. No. 1,130,225; Mar. 2; Gaz. vol. 212; p. 133.
- Harrow. Flexible disk. M. S. Farmer. No. 1,136,908; Apr. 20; Gaz. vol. 213; p. 1084.
- Harrow-follower. J. Polo. No. 1,128,506; Feb. 16; Gaz. vol. 211; p. 734.
- Harrow for attachment to seed-drills. W. A. Deutscher. No. 1,157,155; Oct. 19; Gaz. vol. 219; p. 694.
- Harrow. Land-. C. R. Marshall. No. 1,151,702; Aug. 31; Gaz. vol. 217; p. 1397.
- Harrow. Multiple. C. E. Deibler. No. 1,130,579; Mar. 2; Gaz. vol. 212; p. 259.
- Harrow. Reversible disk. E. M. Heylman. No. 1,131,238; Mar. 9; Gaz. vol. 212; p. 518.
- Harrow. Revolving. G. Bower. No. 1,133,919; Mar. 30; Gaz. vol. 212; p. 1600.
- Harrow. Revolving. M. Skakson. No. 1,125,409; Jan. 19; Gaz. vol. 210; p. 859.
- Harrow. Section-. H. W. Harlin. No. 1,137,857; May 4; Gaz. vol. 214; p. 47.
- Harrow. Self-dumping drag-. W. S. Bales. No. 1,156,968; Oct. 19; Gaz. vol. 219; p. 628.
- Harrow-tooth clip. T. M. Fine and L. Burnam. No. 1,134,832; Apr. 6; Gaz. vol. 213; p. 270.
- Harrow. Toothed. A. Ptaseński. No. 1,148,045; July 27; Gaz. vol. 216; p. 1142.
- Harrow. Twin rotary. A. N. Gouldh. No. 1,145,240; July 6; Gaz. vol. 216; p. 93.
- Harrows and similar tillage implements. Disk gang for use in. F. A. Bucknam. No. 1,157,080; Oct. 19; Gaz. vol. 219; p. 668.
- Harrows. Drag for multiple. G. H. Gunderson. No. 1,154,763; Sept. 28; Gaz. vol. 218; p. 940.
- Harrows. Sectional draw-bar for. G. H. Pounder. No. 1,144,503; June 29; Gaz. vol. 215; p. 1323.
- Harvester. S. V. Barnett. No. 1,133,422; Mar. 30; Gaz. vol. 212; p. 1423.
- Harvester. S. L. Cluett and C. H. Blackert. No. 1,158,445; Nov. 2; Gaz. vol. 220; p. 12.
- Harvester. S. Harris. No. 1,136,798; Apr. 20; Gaz. vol. 213; p. 1044.
- Harvester. S. J. Marquardt. No. 1,154,037; Sept. 21; Gaz. vol. 218; p. 663.
- Harvester. L. G. Mathews. No. 1,162,869; Dec. 7; Gaz. vol. 221; p. 48.
- Harvester. S. E. McPherson. No. 1,136,151; Apr. 20; Gaz. vol. 213; p. 814.
- Harvester. N. and L. Nilson. No. 1,164,306; Dec. 14; Gaz. vol. 221; p. 594.
- Harvester. H. T. Parmfelt and F. A. Tullberg. No. 1,149,681; Aug. 10; Gaz. vol. 217; p. 531.
- Harvester. G. C. Tough. No. 1,127,829; Feb. 9; Gaz. vol. 211; p. 450.
- Harvester and husker. Corn. B. C. Small. No. 1,136,624; Apr. 20; Gaz. vol. 213; p. 983.
- Harvester attachment. W. H. Hornsby. No. 1,163,237; Dec. 7; Gaz. vol. 221; p. 176.
- Harvester attachment for tractors. J. M. Will. No. 1,148,644; Aug. 3; Gaz. vol. 217; p. 58.
- Harvester. Bean-. F. L. Dunkelberger. No. 1,130,074; Mar. 2; Gaz. vol. 212; p. 81.
- Harvester. Bean-. C. S. Hinderliter. No. 1,133,474; Mar. 30; Gaz. vol. 212; p. 1440.
- Harvester. Bean-. C. R. and O. O. Keller. No. 1,125,026; Jan. 12; Gaz. vol. 210; p. 685.
- Harvester. Bean-. J. Piper. No. 1,124,059; Jan. 5; Gaz. vol. 210; p. 292.
- Harvester. Beet-. W. G. Ackerman. No. 1,136,858; Apr. 20; Gaz. vol. 213; p. 1065.
- Harvester. Beet-. R. N. Adams. No. 1,145,538; July 6; Gaz. vol. 216; p. 197.
- Harvester. Beet-. W. Atwood. No. 1,157,920; Oct. 26; Gaz. vol. 219; p. 1025.
- Harvester. Beet-. O. H. Bartholomew. No. 1,132,149; Mar. 16; Gaz. vol. 212; p. 876.
- Harvester. Beet-. O. H. Bartholomew. No. 1,158,956; Nov. 2; Gaz. vol. 220; p. 191.
- Harvester. Beet-. J. P. H. Johnson. No. 1,146,575; July 13; Gaz. vol. 216; p. 582.
- Harvester. Beet-. A. Lahti. No. 1,123,897; Jan. 5; Gaz. vol. 210; p. 238.
- Harvester. Beet-. C. C. Moller and J. J. Bollerup. No. 1,155,319; Sept. 28; Gaz. vol. 218; p. 1128.
- Harvester. Beet-. T. S. Moore. No. 1,142,048; June 8; Gaz. vol. 215; p. 374.
- Harvester. Beet-. S. Munson. No. 1,145,785; July 6; Gaz. vol. 216; p. 283.
- Harvester. Beet-. C. O. I. Nilsson. No. 1,134,221; Apr. 6; Gaz. vol. 213; p. 50.
- Harvester. Beet-. J. L. Siegwarth. No. 1,127,299; Feb. 2; Gaz. vol. 211; p. 222.
- Harvester. Beet-. W. H. Smith. No. 1,140,202; May 18; Gaz. vol. 214; p. 947.
- Harvester. Beet-. L. E. Starkey. No. 1,127,537; Feb. 9; Gaz. vol. 211; p. 346.
- Harvester butt-board. J. Hartman. No. 1,140,979; May 25; Gaz. vol. 214; p. 1254.
- Harvester. Corn-. C. M. Alt. No. 1,134,575; Apr. 6; Gaz. vol. 213; p. 180.
- Harvester. Corn-. E. S. Brown. No. 1,140,244; May 18; Gaz. vol. 214; p. 960.
- Harvester. Corn-. W. E. Cooke. No. 1,165,758; Dec. 28; Gaz. vol. 221; p. 1182.
- Harvester. Corn-. G. A. Farrall and C. Maul. No. 1,157,857; Oct. 26; Gaz. vol. 219; p. 1002.
- Harvester. Corn-. G. A. Farrall and C. Maul. No. 1,158,470; Nov. 2; Gaz. vol. 220; p. 20.
- Harvester. Corn-. G. A. Farrall and C. Maul. No. 1,159,870; Nov. 9; Gaz. vol. 220; p. 366.
- Harvester. Corn-. J. Liebl. No. 1,155,827; Oct. 5; Gaz. vol. 219; p. 176.
- Harvester. Corn-. W. H. S. Ritchie. No. 1,152,660; Sept. 7; Gaz. vol. 218; p. 103.

Alphabetical list of inventions—Continued.

- Harvester, Corn-. D. R. Way. No. 1,131,022; Mar. 9; Gaz. vol. 212; p. 445.
- Harvester, Corn-. J. E. Wood. No. 1,131,586; Mar. 9; Gaz. vol. 212; p. 638.
- Harvester, Corn-shock. A. L. Cox. No. 1,162,981; Dec. 7; Gaz. vol. 221; p. 86.
- Harvester, Cotton-. E. S. Beach. No. 1,135,096; Apr. 13; Gaz. vol. 213; p. 406.
- Harvester, Cotton-. W. J. Lee. No. 1,132,102; Mar. 16; Gaz. vol. 212; p. 858.
- Harvester, Cotton-. T. Matlock. No. 1,149,458; Aug. 10; Gaz. vol. 217; p. 449.
- Harvester, Cotton-. W. J. Shaffer. No. 1,137,545; Apr. 27; Gaz. vol. 213; p. 1349.
- Harvester, Cotton-. W. F. Speck. No. 1,153,968; Sept. 21; Gaz. vol. 218; p. 639.
- Harvester, Cranberry-. G. F. Keene. No. 1,143,403; June 15; Gaz. vol. 215; p. 890.
- Harvester, Ensilage-. A. G. and A. Ronning. No. 1,161,252; Nov. 23; Gaz. vol. 220; p. 1135.
- Harvester, Grain-. J. F. Appleby. No. 1,141,298; June 1; Gaz. vol. 215; p. 75.
- Harvester, Grain-. J. F. Appleby. No. 1,141,299; June 1; Gaz. vol. 215; p. 76.
- Harvester, Grain-. B. R. Benjamin. No. 1,159,887; Nov. 9; Gaz. vol. 220; p. 552.
- Harvester, Grain-. C. Colahan. No. 1,146,785; July 20; Gaz. vol. 216; p. 673.
- Harvester, Grain-. C. A. Hagadone. No. 1,159,888; Nov. 9; Gaz. vol. 220; p. 552.
- Harvester, Hay-. H. T. Allen. No. 1,127,152; Feb. 2; Gaz. vol. 211; p. 172.
- Harvester, Peanut-. W. T. Boyd. No. 1,154,368; Sept. 21; Gaz. vol. 218; p. 779.
- Harvester, Peanut-. S. H. Brummett. No. 1,140,569; May 25; Gaz. vol. 214; p. 1111.
- Harvester, Peanut-. J. R. Erwin. No. 1,137,594; Apr. 27; Gaz. vol. 213; p. 1365.
- Harvester, Peanut-. W. M. Warren. No. 1,145,282; July 6; Gaz. vol. 216; p. 106.
- Harvester-reel. J. A. Sharp. No. 1,152,768; Sept. 7; Gaz. vol. 218; p. 141.
- Harvester reel, Folding grain-. D. E. Buchanan. No. 1,136,403; Apr. 20; Gaz. vol. 213; p. 906.
- Harvester-reel, Yieldable. S. Herzig and C. E. Everson. No. 1,147,862; July 27; Gaz. vol. 216; p. 1077.
- Harvester, Root-. V. O. Deyl. No. 1,149,345; Aug. 10; Gaz. vol. 217; p. 410.
- Harvester, Tobacco-. F. H. Cook. No. 1,134,184; Apr. 6; Gaz. vol. 213; p. 37.
- Harvester, Tobacco-. R. N. King. No. 1,134,206; Apr. 6; Gaz. vol. 213; p. 45.
- Harvester twine-alarm. E. Shaver. No. 1,148,195; July 27; Gaz. vol. 216; p. 1196.
- Harvesters and the like, Bundle-carrying attachment for. J. J. Payer. No. 1,157,719; Oct. 26; Gaz. vol. 219; p. 955.
- Harvesters and the like, Driving mechanism for corn-. W. Hibbs. No. 1,142,036; June 8; Gaz. vol. 215; p. 371.
- Harvesters and the like, Tractor for. V. R. Dunning. No. 1,148,505; Aug. 3; Gaz. vol. 217; p. 7.
- Harvesters, Canvas carrier for. H. Wiemer. No. 1,162,270; Nov. 30; Gaz. vol. 220; p. 1536.
- Harvesters, Cutting mechanism for. L. L. Pittman. No. 1,128,504; Feb. 16; Gaz. vol. 211; p. 734.
- Harvesters, Gathering and discharging mechanism for beet-. T. S. Moore. No. 1,142,050; June 8; Gaz. vol. 215; p. 375.
- Harvesters, Grain-bag chute for. W. M. Rhodes. No. 1,135,620; Apr. 13; Gaz. vol. 213; p. 588.
- Harvesters, Grain-shocker for. K. A. Johnson. No. 1,144,848; June 29; Gaz. vol. 215; p. 1442.
- Harvesters, Leveling mechanism for. W. M. Rhodes. No. 1,135,618; Apr. 13; Gaz. vol. 213; p. 587.
- Harvesters, Motor attachment for. J. A. Stone. No. 1,157,056; Oct. 19; Gaz. vol. 219; p. 659.
- Harvesters or the like, Reel-arm-attaching means for. J. Sturrock. No. 1,123,949; Jan. 5; Gaz. vol. 210; p. 255.
- Harvesters, Receptacle for peanut-. W. T. Boyd. No. 1,153,974; Nov. 2; Gaz. vol. 220; p. 195.
- Harvesters, Stub-cutter attachment for corn-. B. A. Schultz. No. 1,123,398; Jan. 5; Gaz. vol. 210; p. 69.
- Harvesters, Tandem draft connection for. C. Pearson. No. 1,159,988; Nov. 9; Gaz. vol. 220; p. 588.
- Harvesters, Uprooting mechanism for beet-. T. S. Moore. No. 1,142,049; June 8; Gaz. vol. 215; p. 375.
- Harvesting and reducing corn or other growth to silage, Machine for. D. Meyer. No. 1,138,304; May 4; Gaz. vol. 214; p. 204.
- Harvesting device, Hand. L. T. Burnham. No. 1,135,569; Apr. 13; Gaz. vol. 213; p. 570.
- Harvesting-machine. L. Anderson. No. 1,143,161; June 15; Gaz. vol. 215; p. 803.
- Harvesting-machine. L. Anderson. No. 1,156,575; Oct. 12; Gaz. vol. 219; p. 461.
- Harvesting-machine. T. Dugan. No. 1,127,971; Feb. 9; Gaz. vol. 211; p. 499.
- Harvesting-machine. M. H. East. No. 1,150,104; Aug. 17; Gaz. vol. 217; p. 743.
- Harvesting-machine. H. H. Harris. No. 1,153,783; Sept. 14; Gaz. vol. 218; p. 540.
- Harvesting-machine. C. B. Hazard. No. 1,158,050; Oct. 26; Gaz. vol. 219; p. 1070.
- Harvesting-machine apron. A. B. J. R. Mirande. No. 1,138,235; May 4; Gaz. vol. 214; p. 179.
- Harvesting machine, Beet-. W. H. Dailey and H. W. Goode. No. 1,126,716; Feb. 2; Gaz. vol. 211; p. 17.
- Harvesting machine, Beet-. A. S. Moore. No. 1,130,922; Mar. 9; Gaz. vol. 212; p. 411.
- Harvesting-machine conveyer. G. R. Strickland. No. 1,152,572; Sept. 7; Gaz. vol. 218; p. 72.
- Harvesting machine, Corn-. C. H. Taylor. No. 1,159,548; Nov. 9; Gaz. vol. 220; p. 429.
- Harvesting machine, Grain-. W. G. Daub. No. 1,160,696; Nov. 16; Gaz. vol. 220; p. 893.
- Harvesting-machine reversing mechanism. H. Quegwer. No. 1,129,727; Feb. 23; Gaz. vol. 211; p. 1193.
- Harvesting-machines, Adjustable platform for. M. L. Akers. No. 1,144,679; June 29; Gaz. vol. 215; p. 1382.
- Harvesting-machines, Cutter-bar for. T. J. Wilson. No. 1,164,691; Dec. 21; Gaz. vol. 221; p. 770.
- Harvesting-machines, Grain-shocking attachment for. R. V. Barry. No. 1,149,492; Aug. 10; Gaz. vol. 217; p. 459.
- Harvesting-machines, Shocking accessory for. J. G. Kerst. No. 1,132,857; Mar. 23; Gaz. vol. 212; p. 1185.
- Harvesting tool or implement. W. E. Gunn. No. 1,133,021; Mar. 23; Gaz. vol. 212; p. 1246.
- Hasp-fastener. J. F. Duepner, Jr. No. 1,123,997; Jan. 5; Gaz. vol. 210; p. 270.
- Hasp-fastener. L. H. Elliott. No. 1,162,588; Nov. 30; Gaz. vol. 220; p. 1643.
- Hasp-lock. J. R. De Noyelles. No. 1,145,126; July 6; Gaz. vol. 216; p. 54.
- Hasp-lock. F. Pohle, Jr. No. 1,156,310; Oct. 12; Gaz. vol. 219; p. 365.
- Hasps, Keeper for. W. H. Hart. No. 1,141,542; June 1; Gaz. vol. 215; p. 163.
- Hat. C. G. Brazier. No. 1,144,321; June 22; Gaz. vol. 215; p. 1233.
- Hat. F. E. English. No. 1,129,857; Mar. 2; Gaz. vol. 212; p. 9.
- Hat. H. Greenberg. No. 1,150,757; Aug. 17; Gaz. vol. 217; p. 971.
- Hat. H. Goodman. No. 1,148,311; July 27; Gaz. vol. 216; p. 1237.
- Hat. W. P. Schaefer. No. 1,150,633; Aug. 17; Gaz. vol. 217; p. 929.
- Hat. M. L. Trivisonno. No. 1,162,824; Dec. 7; Gaz. vol. 221; p. 33.
- Hat and cap holder. T. J. Burke. No. 1,154,371; Sept. 21; Gaz. vol. 218; p. 779.
- Hat-block, Adjustable. W. F. Sawyer. No. 1,128,530; Feb. 16; Gaz. vol. 211; p. 743.
- Hat-blocking apparatus. L. Flicker. No. 1,156,356; Oct. 12; Gaz. vol. 219; p. 382.
- Hat-bodies, Finishing. J. V. Walsh. No. 1,152,387; Aug. 31; Gaz. vol. 217; p. 1637.
- Hat-body-brushing machine, Felt. J. Kolb. No. 1,165,516; Dec. 28; Gaz. vol. 221; p. 1096.
- Hat-box. D. A. Desmond. No. 1,136,590; Apr. 20; Gaz. vol. 213; p. 971.
- Hat-box. H. H. Holbrook. No. 1,157,538; Oct. 19; Gaz. vol. 219; p. 830.
- Hat-box. A. Taylor. No. 1,154,457; Sept. 21; Gaz. vol. 218; p. 807.
- Hat-box, Storage. T. Randolph. No. 1,138,414; May 4; Gaz. vol. 214; p. 244.
- Hat-brim-curling machine. G. Segsneider. No. 1,134,353; Apr. 6; Gaz. vol. 213; p. 99.
- Hat-chuck. J. H. Chenoweth. No. 1,125,963; Jan. 26; Gaz. vol. 210; p. 1086.
- Hat, Collapsible. K. Blechman. No. 1,163,313; Dec. 7; Gaz. vol. 221; p. 202.
- Hat conformer and retainer, Adjustable. L. Cohen. No. 1,144,462; June 29; Gaz. vol. 215; p. 1309.
- Hat-curling machine. S. J. Miller. No. 1,145,076; July 6; Gaz. vol. 216; p. 37.
- Hat-drying apparatus. W. F. Chiniquy and W. O. Winch. No. 1,134,669; Apr. 6; Gaz. vol. 213; p. 214.
- Hat-fastener. L. R. Ball. No. 1,124,385; Jan. 12; Gaz. vol. 210; p. 456.
- Hat-fastener. M. Balogh. No. 1,151,852; Aug. 31; Gaz. vol. 217; p. 1451.
- Hat-fastener. A. Connor. No. 1,137,839; May 4; Gaz. vol. 214; p. 41.
- Hat-fastener. J. T. Cooney. No. 1,125,478; Jan. 19; Gaz. vol. 210; p. 882.
- Hat-fastener. J. Gonzalez. No. 1,140,900; May 25; Gaz. vol. 214; p. 1226.
- Hat-fastener. A. A. Herring. No. 1,158,213; Oct. 26; Gaz. vol. 219; p. 1128.
- Hat-fastener. M. Huempfer. No. 1,136,530; Apr. 20; Gaz. vol. 213; p. 950.
- Hat-fastener. C. H. Rutherford. No. 1,132,038; Mar. 16; Gaz. vol. 212; p. 836.
- Hat-fastener. L. F. Schrage. No. 1,126,882; Feb. 2; Gaz. vol. 211; p. 77.
- Hat-fastener, Woman's. S. A. Van Horn. No. 1,154,222; Sept. 21; Gaz. vol. 218; p. 725.
- Hat-fastening. F. Hirsh. No. 1,164,184; Dec. 14; Gaz. vol. 221; p. 551.

Alphabetical list of inventions—Continued.

- Hat-fastening device, Lady's. E. Finazzar. No. 1,162,761; Dec. 7; Gaz. vol. 221; p. 10.
- Hat-fastening, Lady's. J. Morris. No. 1,144,561; June 29; Gaz. vol. 215; p. 1342.
- Hat flanging and finishing machine. T. J. MacDonald. No. 1,165,195; Dec. 21; Gaz. vol. 221; p. 947.
- Hat for ladies and children. N. M. Rosen. No. 1,161,162; Nov. 23; Gaz. vol. 220; p. 1100.
- Hat forming and pressing machine. W. H. Kendall. No. 1,130,088; Mar. 2; Gaz. vol. 212; p. 86.
- Hat-frame drier. N. Force. No. 1,160,158; Nov. 16; Gaz. vol. 220; p. 701.
- Hat-guard. J. Costello. No. 1,153,291; Sept. 14; Gaz. vol. 218; p. 364.
- Hat-hanger. V. J. Fricker. No. 1,142,413; June 8; Gaz. vol. 215; p. 505.
- Hat-holder. P. F. Denning. No. 1,124,714; Jan. 12; Gaz. vol. 210; p. 575.
- Hat-lining, Adjustable. W. Lee. No. 1,134,624; Apr. 6; Gaz. vol. 213; p. 197.
- Hat-lining, bandeau, and similar article. M. Grünig and A. H. Woodfield. No. 1,145,765; July 6; Gaz. vol. 216; p. 276.
- Hat or bonnet pin protector. A. Beutner. No. 1,166,172; Dec. 28; Gaz. vol. 221; p. 1328.
- Hat or cap. S. Kunstadter. No. 1,156,487; Oct. 12; Gaz. vol. 219; p. 430.
- Hat-packing ring. S. L. Greene. No. 1,151,263; Aug. 24; Gaz. vol. 217; p. 1202.
- Hat-pattern. L. K. Wheelock. No. 1,139,318; May 11; Gaz. vol. 214; p. 596.
- Hat-pin. C. H. Björkdahl. No. 1,161,442; Nov. 23; Gaz. vol. 220; p. 1202.
- Hat-pin. C. Cleveland. No. 1,130,796; Mar. 9; Gaz. vol. 212; p. 367.
- Hat-pin. J. Sheard. No. 1,147,049; July 20; Gaz. vol. 216; p. 767.
- Hat-pin. T. F. Theriault. No. 1,144,263; June 22; Gaz. vol. 215; p. 1213.
- Hat pin and fastener. S. B. Frankenfield. No. 1,141,179; June 1; Gaz. vol. 215; p. 31.
- Hat-pin guard. A. E. Bacon. No. 1,127,346; Feb. 2; Gaz. vol. 211; p. 237.
- Hat-pin guard. R. L. Long. No. 1,156,300; Oct. 12; Gaz. vol. 219; p. 362.
- Hat-pin, Lady's. I. N. Prenovich. No. 1,144,565; June 29; Gaz. vol. 215; p. 1343.
- Hat-pin-point protector. L. A. Carreras. No. 1,148,211; July 27; Gaz. vol. 216; p. 1201.
- Hat-pin-point protector. L. J. Gage. No. 1,139,264; May 11; Gaz. vol. 214; p. 580.
- Hat-pin-point protector. L. F. Krupicka. No. 1,143,838; June 22; Gaz. vol. 215; p. 1062.
- Hat-pin-point protector. J. Monjo. No. 1,134,401; Apr. 6; Gaz. vol. 213; p. 116.
- Hat-pin-point protector. J. F. Pryor. No. 1,132,488; Mar. 16; Gaz. vol. 212; p. 1000.
- Hat-pin-point protector. N. Romito. No. 1,139,373; May 11; Gaz. vol. 214; p. 617.
- Hat-pin protector. J. J. Bohan. No. 1,148,746; Aug. 3; Gaz. vol. 217; p. 95.
- Hat-pin protector. L. Lipawsky. No. 1,163,833; Dec. 14; Gaz. vol. 221; p. 431.
- Hat-pin, Safety. J. Kamp. No. 1,133,477; Mar. 30; Gaz. vol. 212; p. 1441.
- Hat-pins, Cushion-pad for. H. Ramsay. No. 1,161,527; Nov. 23; Gaz. vol. 220; p. 1232.
- Hat-pouncing machine. A. Turner. No. 1,139,929; May 18; Gaz. vol. 214; p. 850.
- Hat-press. A. Hoff. No. 1,142,430; June 8; Gaz. vol. 215; p. 511.
- Hat-pressing machine. J. Lake, Jr. No. 1,126,492; Jan. 26; Gaz. vol. 210; p. 1277.
- Hat-retainer. R. Bové. No. 1,128,749; Feb. 16; Gaz. vol. 211; p. 817.
- Hat-retaining device. J. Mayer. No. 1,146,270; July 13; Gaz. vol. 216; p. 473.
- Hat-securing device. O. M. Dahl. No. 1,137,843; May 4; Gaz. vol. 214; p. 42.
- Hat-shield. L. H. Schneider. No. 1,149,471; Aug. 10; Gaz. vol. 217; p. 453.
- Hat-sizing machine. E. S. Stocker and F. A. Stacy. No. 1,156,942; Oct. 19; Gaz. vol. 219; p. 618.
- Hat-stretching apparatus. T. J. Bennett. No. 1,143,935; June 22; Gaz. vol. 215; p. 1095.
- Hat sweat-band. F. E. Halbert. No. 1,153,907; Sept. 21; Gaz. vol. 218; p. 619.
- Hat sweat-band. H. D. Kremer. No. 1,155,936; Oct. 5; Gaz. vol. 219; p. 212.
- Hat-ventilator. C. F. Getler. No. 1,140,812; May 25; Gaz. vol. 214; p. 1193.
- Hats, Attachment for forming a French edge on velvet. F. L. Scrymgeour. No. 1,164,126; Dec. 14; Gaz. vol. 221; p. 533.
- Hats, Machine for making the bats for. J. Kolb. No. 1,128,007; Feb. 9; Gaz. vol. 211; p. 512.
- Hatband, Hook-holding. J. M. Deal. No. 1,133,542; Mar. 30; Gaz. vol. 212; p. 1466.
- Hatch-cover. C. E. Cash. No. 1,152,486; Sept. 7; Gaz. vol. 218; p. 38.
- Hatch-cover. M. Funder. No. 1,132,714; Mar. 23; Gaz. vol. 212; p. 1131.
- Hatch-cover supporting device. A. P. Rankin. No. 1,126,864; Feb. 2; Gaz. vol. 211; p. 71.
- Hatch-fastener. M. Mulholland. No. 1,126,064; Jan. 26; Gaz. vol. 210; p. 1124.
- Hatchet. J. W. Hennecke. No. 1,159,585; Nov. 9; Gaz. vol. 220; p. 443.
- Hatchet. O. E. M. Johnson. No. 1,142,101; June 8; Gaz. vol. 215; p. 394.
- Hauling apparatus. J. and J. Davies. No. 1,157,299; Oct. 19; Gaz. vol. 219; p. 746.
- Hauling plant. A. Godan. No. 1,148,225; July 27; Gaz. vol. 216; p. 1206.
- Hay and grain gathering and bunching machine. W. M. Squire. No. 1,134,928; Apr. 6; Gaz. vol. 213; p. 301.
- Hay and grain loader and carrier. E. Paulson. No. 1,163,033; Dec. 7; Gaz. vol. 221; p. 104.
- Hay and hog racks, Fixture for combination. R. W. Sheldon. No. 1,143,145; June 15; Gaz. vol. 215; p. 797.
- Hay and stock rack. S. E. Lamb and A. S. Taylor. No. 1,126,791; Feb. 2; Gaz. vol. 211; p. 45.
- Hay-carrier. H. L. Ferris. No. 1,126,435; Jan. 26; Gaz. vol. 210; p. 1257.
- Hay-carrier. S. L. Hanson. No. 1,132,716; Mar. 23; Gaz. vol. 212; p. 1131.
- Hay-carrier. W. F. Jacobs. No. 1,158,388; Nov. 9; Gaz. vol. 220; p. 372.
- Hay-drier. H. A. Frantz. No. 1,161,301; Nov. 23; Gaz. vol. 220; p. 1152.
- Hay-feeder. R. R. Shirley. No. 1,153,263; Sept. 14; Gaz. vol. 218; p. 355.
- Hay-fork. J. Heusser. No. 1,146,936; July 20; Gaz. vol. 216; p. 727.
- Hay-fork. J. Heusser. No. 1,165,504; Dec. 28; Gaz. vol. 221; p. 1092.
- Hay-fork. S. Makhoulan. No. 1,151,209; Aug. 24; Gaz. vol. 217; p. 1185.
- Hay-fork. H. Uhe. No. 1,149,480; Aug. 10; Gaz. vol. 217; p. 456.
- Hay-fork carriers, Hay-track for. D. J. Delaney. No. 1,135,773; Apr. 13; Gaz. vol. 213; p. 641.
- Hay-fork hook. J. Heusser. No. 1,159,222; Nov. 2; Gaz. vol. 220; p. 283.
- Hay gathering and handling machine. M. Beck. No. 1,142,927; June 15; Gaz. vol. 215; p. 721.
- Hay-knife. F. Widoe. No. 1,165,737; Dec. 28; Gaz. vol. 221; p. 1175.
- Hay lifting and carrying device. J. Sales. No. 1,151,052; Aug. 24; Gaz. vol. 217; p. 1130.
- Hay-loader. J. Dain. No. 1,157,680; Oct. 26; Gaz. vol. 219; p. 941.
- Hay-loader. J. C. McCoy. No. 1,128,017; Feb. 9; Gaz. vol. 211; p. 516.
- Hay-loader. J. D. Musser. No. 1,158,536; Nov. 2; Gaz. vol. 220; p. 45.
- Hay-loaders, Hitch for. C. Lechtenberg. No. 1,145,026; July 6; Gaz. vol. 216; p. 17.
- Hay-loaders, Side rake attachment for. J. C. Weaver. No. 1,134,171; Apr. 6; Gaz. vol. 213; p. 32.
- Hay-loading device. H. Smith. No. 1,134,290; Apr. 6; Gaz. vol. 213; p. 76.
- Hay or shock loader. H. W. Willis. No. 1,156,734; Oct. 12; Gaz. vol. 219; p. 516.
- Hay-press. J. Dain. No. 1,147,710; July 27; Gaz. vol. 216; p. 1024.
- Hay-press. J. Dain. No. 1,153,199; Sept. 14; Gaz. vol. 218; p. 332.
- Hay-press. J. A. Dickel and L. H. Baker. No. 1,143,949; June 22; Gaz. vol. 215; p. 1101.
- Hay-press. J. Johnson and J. H. Younger. No. 1,159,948; Nov. 9; Gaz. vol. 220; p. 575.
- Hay-press. J. T. McCune. No. 1,139,046; May 11; Gaz. vol. 214; p. 505.
- Hay-press. C. H. Melvin. No. 1,147,742; July 27; Gaz. vol. 216; p. 1035.
- Hay-press. C. H. Melvin. No. 1,147,743; July 27; Gaz. vol. 216; p. 1036.
- Hay-press. I. C. Rust. No. 1,164,121; Dec. 14; Gaz. vol. 221; p. 531.
- Hay-press. C. E. Schee. No. 1,126,298; Jan. 26; Gaz. vol. 210; p. 1209.
- Hay-press feeding device. S. S. Sandy. No. 1,164,404; Dec. 14; Gaz. vol. 221; p. 630.
- Hay-presses, Tucker-roll for. T. S. Langford. No. 1,149,654; Aug. 10; Gaz. vol. 217; p. 523.
- Hay-rack. J. G. Bailey. No. 1,155,783; Oct. 5; Gaz. vol. 219; p. 159.
- Hay-rack. A. J. Carlson. No. 1,147,371; July 20; Gaz. vol. 216; p. 878.
- Hay-rack. W. Eckelberg. No. 1,130,498; Mar. 2; Gaz. vol. 212; p. 231.
- Hay-rack. W. C. Harrold. No. 1,125,523; Jan. 19; Gaz. vol. 210; p. 898.
- Hay-rack. I. L. Osborne. No. 1,124,793; Jan. 12; Gaz. vol. 210; p. 603.
- Hay-rack. E. J. Wells. No. 1,161,561; Nov. 23; Gaz. vol. 220; p. 1243.
- Hay-rack clamp. I. H. Lee. No. 1,145,495; July 6; Gaz. vol. 216; p. 182.
- Hay-rack end-gate. J. O. Johnson. No. 1,165,103; Dec. 21; Gaz. vol. 221; p. 915.
- Hay-rack lock. D. S. Howell. No. 1,132,848; Mar. 23; Gaz. vol. 212; p. 1182.

Alphabetical list of inventions—Continued.

- Hay-rack, Metal. A. Wartzack. No. 1,127,130; Feb. 2; Gaz. vol. 211; p. 165.
- Hay-rack, Portable. S. R. Ewing. No. 1,141,112; June 1; Gaz. vol. 215; p. 8.
- Hay-rake. J. Dain. No. 1,141,695; June 1; Gaz. vol. 215; p. 216.
- Hay-rake. C. A. Fleming. No. 1,165,863; Dec. 28; Gaz. vol. 221; p. 1217.
- Hay rake and stacker. H. A. Goering and S. P. Krehbiel. No. 1,146,244; July 13; Gaz. vol. 216; p. 465.
- Hay rake and tedder. L. E. Waterman. No. 1,159,444; Nov. 9; Gaz. vol. 220; p. 393.
- Hay-rake, Horse or other traction drawn. P. T. Maw. No. 1,148,181; July 27; Gaz. vol. 216; p. 1192.
- Hay-rake, Self-dumping. E. C. Smith. No. 1,164,133; Dec. 14; Gaz. vol. 221; p. 536.
- Hay-rake, Side-delivery. A. Grieves. No. 1,157,775; Oct. 26; Gaz. vol. 219; p. 973.
- Hay-rake, Side-delivery. D. E. Leasure. No. 1,166,136; Dec. 28; Gaz. vol. 221; p. 1315.
- Hay-shocker. H. E. and C. A. Gregory. No. 1,149,910; Aug. 10; Gaz. vol. 217; p. 613.
- Hay-sling. L. S. Ballard. No. 1,135,249; Apr. 13; Gaz. vol. 213; p. 457.
- Hay-sling. O. L. Hulstedt. No. 1,142,432; June 8; Gaz. vol. 215; p. 512.
- Head and back rest. M. E. Ahlborn. No. 1,156,125; Oct. 12; Gaz. vol. 219; p. 304.
- Head and jaw rest, Combined. N. P. Stenshoel. No. 1,131,802; Mar. 16; Gaz. vol. 212; p. 752.
- Head-block. C. H. Powell. No. 1,142,981; June 15; Gaz. vol. 215; p. 741.
- Head-dress covering. F. E. Sincere. No. 1,146,109; July 13; Gaz. vol. 216; p. 417.
- Head-easer. I. Elfenbein. No. 1,133,114; Mar. 23; Gaz. vol. 212; p. 1279.
- Head-gate. H. E. Thompson. No. 1,161,997; Nov. 30; Gaz. vol. 220; p. 1440.
- Head-gate, Automatic. K. Keeler. No. 1,138,485; May 4; Gaz. vol. 214; p. 269.
- Head-gate, Automatic. K. Keeler. No. 1,147,948; July 27; Gaz. vol. 216; p. 1107.
- Head-gate, Automatic. G. L. Walker and W. W. Boughton. No. 1,136,066; Apr. 20; Gaz. vol. 213; p. 784.
- Head-gate for irrigation-ditches. M. I. Chapin. No. 1,125,961; Jan. 26; Gaz. vol. 210; p. 1085.
- Head-gear. S. E. Hall. No. 1,139,967; May 18; Gaz. vol. 214; p. 863.
- Head-guard. J. L. McGrew. No. 1,163,247; Dec. 7; Gaz. vol. 221; p. 180.
- Head-motion. W. A. Stedman. No. 1,153,723; Sept. 14; Gaz. vol. 218; p. 520.
- Head-rest. S. E. Douglass. No. 1,155,223; Sept. 28; Gaz. vol. 218; p. 1097.
- Head-screen. W. A. Randle. No. 1,124,521; Jan. 12; Gaz. vol. 210; p. 505.
- Head-stock. A. G. Belden. No. 1,150,243; Aug. 17; Gaz. vol. 217; p. 795.
- Headache-pad. F. H. Leitheiser. No. 1,150,526; Aug. 17; Gaz. vol. 217; p. 891.
- Headed stopper. A. Bogdanffy. No. 1,162,443; Nov. 30; Gaz. vol. 220; p. 1595.
- Header. E. C. Meier. No. 1,154,194; Sept. 21; Gaz. vol. 218; p. 715.
- Header and stripper, Combined. C. F. Smith. No. 1,146,600; July 13; Gaz. vol. 216; p. 590.
- Headers, Controlling mechanism for traction-driven. A. O. Lee. No. 1,154,703; Sept. 28; Gaz. vol. 218; p. 920.
- Headers, Suspension system for. W. M. Rhodes. No. 1,135,619; Apr. 13; Gaz. vol. 213; p. 588.
- Heading device. J. C. Roach. No. 1,146,957; July 20; Gaz. vol. 216; p. 734.
- Heading-knife. R. T. Warren. No. 1,147,665; July 20; Gaz. vol. 216; p. 982.
- Heading-machine. A. H. Gaess. No. 1,139,963; May 18; Gaz. vol. 214; p. 862.
- Heading-machine. R. A. Porter. No. 1,145,919; July 13; Gaz. vol. 216; p. 349.
- Headlight. L. E. Allen. No. 1,158,156; Oct. 26; Gaz. vol. 219; p. 1108.
- Headlight. F. Buchanan. No. 1,136,404; Apr. 20; Gaz. vol. 213; p. 906.
- Headlight. F. Buchanan. No. 1,143,806; June 22; Gaz. vol. 215; p. 1051.
- Headlight. F. Buchanan. No. 1,150,170; Aug. 17; Gaz. vol. 217; p. 768.
- Headlight. E. L. Clark. No. 1,136,507; Apr. 20; Gaz. vol. 213; p. 942.
- Headlight. C. W. Dake. No. 1,152,007; Aug. 31; Gaz. vol. 217; p. 1503.
- Headlight. J. R. Davis and U. Richardson. No. 1,141,780; June 1; Gaz. vol. 215; p. 244.
- Headlight. C. J. Geterman. No. 1,130,391; Mar. 2; Gaz. vol. 212; p. 191.
- Headlight. C. A. B. Halvorson, Jr., and L. O. Ingalls. No. 1,143,539; June 15; Gaz. vol. 215; p. 935.
- Headlight. L. O. Ingalls. No. 1,160,718; Nov. 16; Gaz. vol. 220; p. 900.
- Headlight. E. K. King. No. 1,135,456; Apr. 13; Gaz. vol. 213; p. 529.
- Headlight. A. F. Kush. No. 1,148,101; July 27; Gaz. vol. 216; p. 1163.
- Headlight. F. F. MacLean. No. 1,130,002; Mar. 2; Gaz. vol. 212; p. 57.
- Headlight. F. F. MacLean. No. 1,146,268; July 13; Gaz. vol. 216; p. 473.
- Headlight. M. J. Mann. No. 1,164,539; Dec. 14; Gaz. vol. 221; p. 676.
- Headlight. S. V. Monsees. No. 1,140,998; May 25; Gaz. vol. 214; p. 1260.
- Headlight. H. O. Sebring. No. 1,131,797; Mar. 16; Gaz. vol. 212; p. 750.
- Headlight. R. G. Standerwick. No. 1,157,966; Oct. 26; Gaz. vol. 219; p. 1042.
- Headlight. R. F. Wilson. No. 1,144,676; June 29; Gaz. vol. 215; p. 1381.
- Headlight. R. F. Wilson. No. 1,148,942; Aug. 3; Gaz. vol. 217; p. 162.
- Headlight. R. F. Wilson. No. 1,154,824; Sept. 28; Gaz. vol. 218; p. 961.
- Headlight-adjuster for automobiles. H. W. Bollinger. No. 1,133,224; Mar. 23; Gaz. vol. 212; p. 1316.
- Headlight attachment. A. C. Kaufmann. No. 1,152,182; Aug. 31; Gaz. vol. 217; p. 1563.
- Headlight attachment. W. F. Lennon. No. 1,130,180; Mar. 2; Gaz. vol. 212; p. 118.
- Headlight attachment. W. F. Lennon. No. 1,137,221; Apr. 27; Gaz. vol. 213; p. 1234.
- Headlight attachment. C. Lightfoot. No. 1,129,106; Feb. 23; Gaz. vol. 211; p. 980.
- Headlight attachment for automobiles. H. L. Hubbard. No. 1,124,024; Jan. 5; Gaz. vol. 210; p. 280.
- Headlight, Automatic automobile. G. Grover. No. 1,146,619; July 13; Gaz. vol. 216; p. 597.
- Headlight, Automobile. W. N. Allan. No. 1,146,914; July 20; Gaz. vol. 216; p. 718.
- Headlight, Automobile. P. E. Browne. No. 1,128,752; Feb. 16; Gaz. vol. 211; p. 818.
- Headlight, Automobile. C. Reinker. No. 1,152,219; Aug. 31; Gaz. vol. 217; p. 1577.
- Headlight-blind. C. H. Frye. No. 1,142,414; June 8; Gaz. vol. 215; p. 505.
- Headlight bracket, Locomotive. C. W. Dake. No. 1,138,848; May 11; Gaz. vol. 214; p. 435.
- Headlight control. G. W. Atkinson. No. 1,144,886; June 29; Gaz. vol. 215; p. 1455.
- Headlight control. P. Murphy. No. 1,147,535; July 20; Gaz. vol. 216; p. 936.
- Headlight control. W. C. Sykes. No. 1,138,424; May 4; Gaz. vol. 214; p. 248.
- Headlight-control, Automatic. J. W. Eastep. No. 1,132,919; Mar. 23; Gaz. vol. 212; p. 1206.
- Headlight control, Dirigible. H. R. Currier. No. 1,157,764; Oct. 26; Gaz. vol. 219; p. 970.
- Headlight control for automobiles. J. E. Dempsey. No. 1,138,358; May 4; Gaz. vol. 214; p. 225.
- Headlight-control mechanism, Automobile. F. P. Roberts. No. 1,139,230; May 11; Gaz. vol. 214; p. 568.
- Headlight, Controllable. J. M. Walker. No. 1,127,327; Feb. 2; Gaz. vol. 211; p. 231.
- Headlight-dimmer. F. C. Christenson and T. W. Fuller. No. 1,123,487; Jan. 5; Gaz. vol. 210; p. 99.
- Headlight-dimmer. F. C. Christenson and T. W. Fuller. No. 1,143,611; June 22; Gaz. vol. 215; p. 985.
- Headlight-dimmer. H. J. Kastner. No. 1,131,933; Mar. 16; Gaz. vol. 212; p. 798.
- Headlight-dimmer, Automobile. H. C. Harrison. No. 1,136,006; Apr. 20; Gaz. vol. 213; p. 765.
- Headlight-dimming attachment. L. E. Eaton. No. 1,128,959; Feb. 16; Gaz. vol. 211; p. 894.
- Headlight-dimming device, Automobile. A. H. Brett. No. 1,132,554; Mar. 23; Gaz. vol. 212; p. 1072.
- Headlight, Dirigible. J. Churchill. No. 1,130,478; Mar. 2; Gaz. vol. 212; p. 224.
- Headlight, Dirigible. A. R. Conner. No. 1,145,750; July 6; Gaz. vol. 216; p. 271.
- Headlight, Dirigible. C. J. Doell. No. 1,166,337; Dec. 28; Gaz. vol. 221; p. 1388.
- Headlight, Dirigible. T. R. Hanson. No. 1,158,207; Oct. 26; Gaz. vol. 219; p. 1126.
- Headlight, Dirigible. J. F. Moriarty and L. L. Kneeland. No. 1,140,389; May 25; Gaz. vol. 214; p. 1046.
- Headlight, Dirigible. W. V. Pylant. No. 1,151,391; Aug. 24; Gaz. vol. 217; p. 1244.
- Headlight, Dirigible automatic. J. Sajda and M. Skapick. No. 1,163,266; Dec. 7; Gaz. vol. 221; p. 186.
- Headlight, Dirigible automobile. J. G. Holicky. No. 1,154,863; Sept. 28; Gaz. vol. 218; p. 972.
- Headlight, Dirigible automobile. L. C. Thompson and J. A. Garriss. No. 1,133,681; Mar. 30; Gaz. vol. 212; p. 1518.
- Headlight for automobiles. T. H. Cole. No. 1,132,443; Mar. 16; Gaz. vol. 212; p. 984.
- Headlight for automobiles and the like. J. P. Walsh. No. 1,152,676; Sept. 7; Gaz. vol. 218; p. 110.
- Headlights for automobiles, Attachment for. E. O. Wheeler. No. 1,161,175; Nov. 23; Gaz. vol. 220; p. 1106.
- Headlight for automobiles, Controllable. F. G. Anspach. No. 1,145,961; July 13; Gaz. vol. 216; p. 364.
- Headlight for automobiles, Dirigible. J. N. Bradley. No. 1,163,315; Dec. 7; Gaz. vol. 221; p. 203.
- Headlight for automobiles, Dirigible. S. Floersheim. No. 1,126,438; Jan. 26; Gaz. vol. 210; p. 1259.

Alphabetical list of inventions—Continued.

- Headlight for automobiles, Dirigible. H. P. Gow. No. 1,149,977; Aug. 10; Gaz. vol. 217; p. 638.
- Headlight for automobiles, Dirigible. C. T. Weeks. No. 1,131,023; Mar. 9; Gaz. vol. 212; p. 446.
- Headlight for locomotives, J. H. Whiting. No. 1,156,262; Oct. 12; Gaz. vol. 219; p. 349.
- Headlight for motor-driven vehicles. L. C. Rose. No. 1,124,810; Jan. 12; Gaz. vol. 210; p. 610.
- Headlight for vehicles. F. P. Sackett. No. 1,140,189; May 18; Gaz. vol. 214; p. 943.
- Headlight for vehicles, Signal-. L. Irsza. No. 1,147,945; July 27; Gaz. vol. 216; p. 1106.
- Headlight, Locomotive-. W. T. Brown. No. 1,138,449; May 4; Gaz. vol. 214; p. 256.
- Headlight, Locomotive-. S. N. Wages. No. 1,166,285; Dec. 28; Gaz. vol. 221; p. 1370.
- Headlight mechanism, Dirigible-. A. Mabie. No. 1,150,529; Aug. 17; Gaz. vol. 217; p. 892.
- Headlight mechanism, Dirigible-. C. Waters. No. 1,130,357; Mar. 2; Gaz. vol. 212; p. 179.
- Headlight, Motor-vehicle. J. H. Clark. No. 1,144,813; June 29; Gaz. vol. 215; p. 1430.
- Headlight mounting, Automobile dirigible-. J. F. Taylor. No. 1,150,234; Aug. 17; Gaz. vol. 217; p. 790.
- Headlight, Non-glare. W. W. Metzger, J. A. Altendorf, and C. M. Verrill. No. 1,155,600; Oct. 5; Gaz. vol. 219; p. 96.
- Headlight, Non-glaring. J. E. Wright. No. 1,138,712; May 11; Gaz. vol. 214; p. 385.
- Headlight-operating device, Movable. M. Grimord. No. 1,140,152; May 18; Gaz. vol. 214; p. 930.
- Headlight-operating mechanism. J. P. Pedersen. No. 1,139,068; May 11; Gaz. vol. 214; p. 513.
- Headlight or lamp for vehicles. J. W. Whetham. No. 1,146,041; July 13; Gaz. vol. 216; p. 394.
- Headlight, Rotatable. T. E. Brewer. No. 1,166,109; Dec. 28; Gaz. vol. 221; p. 1303.
- Headlight-shield. J. Kobs, Jr., and M. Stewart. No. 1,141,124; June 1; Gaz. vol. 215; p. 12.
- Headlight shifter, Street-car-. B. H. Cornelius. No. 1,144,691; June 29; Gaz. vol. 215; p. 1386.
- Headlight-shutter. C. C. Hole. No. 1,149,053; Aug. 3; Gaz. vol. 217; p. 201.
- Headlight-turning device, Automobile. O. Ojala. No. 1,150,381; Aug. 17; Gaz. vol. 217; p. 841.
- Headlight-turning means for vehicles. O. H. Paddock. No. 1,156,623; Oct. 12; Gaz. vol. 219; p. 478.
- Headlight-turning mechanism for vehicles. J. W. Mott. No. 1,158,071; Oct. 26; Gaz. vol. 219; p. 1078.
- Headlight, Vehicle-. R. N. Carter. No. 1,130,067; Mar. 2; Gaz. vol. 212; p. 79.
- Headlight, Vehicle-. B. A. Hopper. No. 1,142,963; June 15; Gaz. vol. 215; p. 734.
- Headlights and other lamps, Screen for. J. J. Martin. No. 1,141,718; June 1; Gaz. vol. 215; p. 224.
- Headlights, Glare-guard for. F. W. Beauchamp. No. 1,148,650; Aug. 3; Gaz. vol. 217; p. 60.
- Headlights, Glare-preventive means for. J. E. Morrison. No. 1,132,865; Mar. 23; Gaz. vol. 212; p. 1188.
- Headlights, Steering apparatus for automobile-. G. George. No. 1,144,033; June 22; Gaz. vol. 215; p. 1131.
- Headlights, Steering mechanism for automobile-. C. E. Kratzer. No. 1,134,464; Apr. 6; Gaz. vol. 213; p. 139.
- Headwear-crown protector. J. H. Roberts and G. Rolnick. No. 1,139,803; May 18; Gaz. vol. 214; p. 806.
- Heat and fuel economizer, Adjustable. M. M. Gillam. No. 1,138,745; May 11; Gaz. vol. 214; p. 397.
- Heat-controlling device, Automatic. A. P. Broomell. No. 1,133,090; Mar. 23; Gaz. vol. 212; p. 1270.
- Heat-controlling device, Thermostatic. F. and W. G. Tyson. No. 1,131,444; Mar. 9; Gaz. vol. 212; p. 590.
- Heat-distributor. L. S. Chadwick. No. 1,150,172; Aug. 17; Gaz. vol. 217; p. 769.
- Heat-distributing attachment. D. A. Lewis. No. 1,164,368; Dec. 14; Gaz. vol. 221; p. 617.
- Heat-economizer, Gas-stove. J. Kendall. No. 1,145,488; July 6; Gaz. vol. 216; p. 180.
- Heat energy, Utilizing. W. C. Brown. No. 1,152,394; Sept. 7; Gaz. vol. 218; p. 4.
- Heat-engine. F. B. Latady. No. 1,156,534; Oct. 12; Gaz. vol. 219; p. 446.
- Heat-generating furnace. W. Thomas and A. E. Mainwaring. No. 1,128,199; Feb. 9; Gaz. vol. 211; p. 578.
- Heat-generator, Friction. J. H. Becker. No. 1,126,354; Jan. 26; Gaz. vol. 210; p. 1229.
- Heat-insulating boards from fibrous material, Producing. J. E. Lappen. No. 1,155,330; Sept. 28; Gaz. vol. 218; p. 1132.
- Heat-insulating material. C. P. Byrnes. No. 1,162,450; Nov. 30; Gaz. vol. 220; p. 1597.
- Heat-insulating material, Making. F. J. Maywald. No. 1,142,829; June 15; Gaz. vol. 215; p. 686.
- Heat-insulating structure. A. P. Lundin. No. 1,133,299; Mar. 30; Gaz. vol. 212; p. 1379.
- Heat-insulator. F. W. Guibert. No. 1,145,192; July 6; Gaz. vol. 216; p. 76.
- Heat into work, Apparatus for converting. R. A. Fessenden. No. 1,132,465; Mar. 16; Gaz. vol. 212; p. 992.
- Heat of molten slag, Means for utilizing the. R. Baggaley. No. 1,160,817; Nov. 16; Gaz. vol. 220; p. 935.
- Heat produced by combustion, Apparatus for distributing. P. Plantinga. No. 1,135,137; Apr. 13; Gaz. vol. 213; p. 421.
- Heat-producing compound. W. F. McNabb. No. 1,143,295; June 15; Gaz. vol. 215; p. 852.
- Heat-producing compound. W. F. McNabb and R. S. Wile. No. 1,126,055; Jan. 26; Gaz. vol. 210; p. 1120.
- Heat-recorder. M. Krause. No. 1,152,645; Sept. 7; Gaz. vol. 218; p. 98.
- Heat recuperation. H. L. Doherty. No. 1,150,838; Aug. 17; Gaz. vol. 217; p. 1000.
- Heat-regulating apparatus. N. E. Nash. No. 1,124,788; Jan. 12; Gaz. vol. 210; p. 601.
- Heat-regulating system. W. S. Hadaway, Jr. No. 1,155,482; Oct. 5; Gaz. vol. 219; p. 56.
- Heat-regulating system, Thermo-electric. L. A. Larson. No. 1,157,112; Oct. 19; Gaz. vol. 219; p. 679.
- Heat-regulator. L. A. Abbott. No. 1,136,084; Apr. 20; Gaz. vol. 213; p. 790.
- Heat-resisting bodies, Producing. P. R. Hershman. No. 1,135,182; Apr. 13; Gaz. vol. 213; p. 435.
- Heat-responsive device. A. W. Browne and R. P. Nichols. No. 1,159,893; Nov. 9; Gaz. vol. 220; p. 554.
- Heat-storage system, Electric. W. Stanley. No. 1,161,748; Nov. 23; Gaz. vol. 220; p. 1306.
- Heat, Storing apparatus for exhaust-steam. C. Schraepfer. No. 1,128,372; Feb. 16; Gaz. vol. 211; p. 687.
- Heat-transferring apparatus. B. C. Shipman. No. 1,148,865; Aug. 3; Gaz. vol. 217; p. 135.
- Heat-transferring device. L. D. Lovekin. No. 1,139,548; May 18; Gaz. vol. 214; p. 715.
- Heat-treating furnace. E. F. Tilley, Jr. No. 1,130,040; Mar. 2; Gaz. vol. 212; p. 69.
- Heater: See—
- | | |
|--|-----------------------------------|
| Air-heater. | Hypodermic heater. |
| Asphalt-heater. | Incubator-heater. |
| Automobile-heater. | Iron-heater. |
| Bath-heater. | Liquid-heater. |
| Brooder-heater. | Milk-heater. |
| Car-heater. | Multiple-unit heater. |
| Carbureter-heater. | Oil-heater. |
| Chocolate-heater. | Orchard-heater. |
| Curling-iron heater. | Portable heater. |
| Egg-heater. | Pail-heater. |
| Electric heater. | Reflecting-heater. |
| Electric fluid-heater. | Sad-iron heater. |
| Electric immersion-heater. | Self-controlling heater. |
| Electrical heater. | Shoe-toe heater. |
| Engine-heater. | Steam, gas, and hot-water heater. |
| Feed-water heater. | Surface-heater. |
| Fireplace-heater. | Tank-heater. |
| Fluid-medium heater. | Thermostatic heater. |
| Gas-heater. | Tool-heater. |
| Gaseous heater. | Tube-heater. |
| Gaseous-fluid heater. | Vapor-heater. |
| Gaseous-fuel heater. | Vehicle-heater. |
| Gasolene-tank heater. | Water-heater. |
| Grape-pomace heater. | Water and air heater. |
| Hot-blast heater. | Wheel and track heater. |
| Hot-water heater. | |
| Hot-water or steam and hot-air heater. | |
- Heater. D. W. Atkins. No. 1,152,263; Aug. 31; Gaz. vol. 217; p. 1591.
- Heater. J. Brombacher. No. 1,146,919; July 20; Gaz. vol. 216; p. 720.
- Heater. G. J. Comminos. No. 1,128,588; Feb. 16; Gaz. vol. 211; p. 762.
- Heater. L. T. Crabtree. No. 1,137,584; Apr. 27; Gaz. vol. 213; p. 1362.
- Heater. R. M. Dean. No. 1,164,075; Dec. 14; Gaz. vol. 221; p. 515.
- Heater. E. W. Dunn. No. 1,144,699; June 29; Gaz. vol. 215; p. 1389.
- Heater. R. F. Hawley and F. L. Bohanan. No. 1,147,396; July 20; Gaz. vol. 216; p. 888.
- Heater. A. Herzinger. No. 1,166,372; Dec. 28; Gaz. vol. 221; p. 1401.
- Heater. G. R. Max-Kretschmer. No. 1,125,027; Jan. 12; Gaz. vol. 210; p. 685.
- Heater. S. E. Maxwell. No. 1,147,878; July 27; Gaz. vol. 216; p. 1082.
- Heater. J. C. Morgan. No. 1,151,605; Aug. 31; Gaz. vol. 217; p. 1365.
- Heater. T. G. Palmer. No. 1,125,387; Jan. 19; Gaz. vol. 210; p. 852.
- Heater and ventilator. O. Johnston. No. 1,133,969; Mar. 30; Gaz. vol. 212; p. 1615.
- Heater burner, Water-. B. E. Meacham. No. 1,143,057; June 15; Gaz. vol. 215; p. 767.
- Heater control device. A. C. Brantingham. No. 1,161,835; Nov. 30; Gaz. vol. 220; p. 1383.
- Heater control mechanism. A. C. Brantingham. No. 1,161,834; Nov. 30; Gaz. vol. 220; p. 1383.
- Heater regulator, Water-. C. S. Folsom. No. 1,139,408; May 11; Gaz. vol. 214; p. 630.
- Heaters, Circuit-closer for hot-water. C. A. Fox. No. 1,162,469; Nov. 30; Gaz. vol. 220; p. 1604.
- Heaters, Fuel-supply means for orchard-. G. W. Bothwell. No. 1,145,289; July 6; Gaz. vol. 216; p. 109.
- Heaters, Producing electric. W. S. Hadaway, Jr. No. 1,163,659; Dec. 14; Gaz. vol. 221; p. 367.

Alphabetical list of inventions—Continued.

- Heaters, Resistance-wire for electric. R. H. Read. No. 1,127,281; Feb. 2; Gaz. vol. 211; p. 217.
- Heaters, Water-jacket for. J. P. Smythe. No. 1,163,787; Dec. 14; Gaz. vol. 221; p. 414.
- Heating and cooking apparatus. R. F. Venner. No. 1,133,073; Mar. 23; Gaz. vol. 212; p. 1264.
- Heating and mixing materials. Machine for. C. W. Ie-valley. No. 1,123,901; Jan. 5; Gaz. vol. 210; p. 239.
- Heating and power-producing system. J. V. Santry. No. 1,154,210; Sept. 21; Gaz. vol. 218; p. 721.
- Heating and ventilating system. C. Ludlow and W. P. Bausmith. No. 1,123,334; Jan. 5; Gaz. vol. 210; p. 47.
- Heating and ventilating system. L. C. Smith. No. 1,138,805; May 11; Gaz. vol. 214; p. 419.
- Heating apparatus. H. K. Austin. No. 1,155,782; Oct. 5; Gaz. vol. 219; p. 159.
- Heating apparatus. R. L. Blanding. No. 1,160,489; Nov. 16; Gaz. vol. 220; p. 816.
- Heating apparatus. M. H. and J. J. Brennan. No. 1,154,608; Sept. 28; Gaz. vol. 218; p. 887.
- Heating apparatus. B. Dwofsky and S. Sambar. No. 1,144,533; June 29; Gaz. vol. 215; p. 1332.
- Heating apparatus. G. W. Franzheim. No. 1,139,660; May 18; Gaz. vol. 214; p. 756.
- Heating apparatus. F. W. Miller. No. 1,135,039; Apr. 13; Gaz. vol. 213; p. 387.
- Heating apparatus. A. Rector. No. 1,143,553; June 15; Gaz. vol. 215; p. 940.
- Heating apparatus. R. G. Speer. No. 1,137,675; Apr. 27; Gaz. vol. 213; p. 1391.
- Heating apparatus. T. H. Ward and R. K. Seals. No. 1,135,562; Apr. 13; Gaz. vol. 213; p. 567.
- Heating apparatus, Air-blast. F. Ephraim. No. 1,154,106; Sept. 21; Gaz. vol. 218; p. 687.
- Heating apparatus, Electric. E. E. Rose. No. 1,155,167; Sept. 28; Gaz. vol. 218; p. 1080.
- Heating apparatus, Electric. F. Thornton, Jr. No. 1,158,586; Nov. 2; Gaz. vol. 220; p. 62.
- Heating apparatus, Hot-water. A. B. Reck. No. 1,148,857; Aug. 3; Gaz. vol. 217; p. 133.
- Heating apparatus, Liquid. H. Junkers. No. 1,147,734; July 27; Gaz. vol. 216; p. 1033.
- Heating apparatus, Steam. T. J. Cullen. No. 1,124,301; Jan. 12; Gaz. vol. 210; p. 426.
- Heating apparatus, Steam. J. A. Ferguson. No. 1,131,049; Mar. 9; Gaz. vol. 212; p. 454.
- Heating apparatus, Time-controlled oil-burning. H. V. Coes. No. 1,150,501; Aug. 17; Gaz. vol. 217; p. 883.
- Heating appliance. J. T. Mercier. No. 1,153,096; Sept. 7; Gaz. vol. 218; p. 259.
- Heating-boiler. P. L. Gunkel. No. 1,142,323; June 8; Gaz. vol. 215; p. 471.
- Heating-boiler. H. M. Wells. No. 1,164,244; Dec. 14; Gaz. vol. 221; p. 571.
- Heating device. C. E. Egan and W. E. Mayer. No. 1,138,362; May 4; Gaz. vol. 214; p. 226.
- Heating device. W. J. Frank. No. 1,131,226; Mar. 9; Gaz. vol. 212; p. 514.
- Heating device. A. R. Sprague. No. 1,158,739; Nov. 2; Gaz. vol. 220; p. 114.
- Heating device, Electric. M. Allmayer. No. 1,134,661; Apr. 6; Gaz. vol. 213; p. 212.
- Heating device, Electric. W. S. Hadaway, Jr. No. 1,157,100; Oct. 19; Gaz. vol. 219; p. 675.
- Heating device, Electric. E. J. Ovington. No. 1,141,576; June 1; Gaz. vol. 215; p. 175.
- Heating device, Electric. E. B. Spencer. No. 1,128,731; Feb. 16; Gaz. vol. 211; p. 810.
- Heating device, Electric. F. M. Vogel. No. 1,128,081; Feb. 9; Gaz. vol. 211; p. 538.
- Heating device, Electrical. E. H. Ruckle. No. 1,128,366; Feb. 16; Gaz. vol. 211; p. 685.
- Heating device, Electrical. E. L. Wiegand. No. 1,154,953; Sept. 28; Gaz. vol. 218; p. 1004.
- Heating device, Liquid-fuel. A. Irinyl. No. 1,148,515; Aug. 3; Gaz. vol. 217; p. 11.
- Heating devices, Apparatus for producing electrical. E. L. Wiegand. No. 1,133,347; Mar. 30; Gaz. vol. 212; p. 1396.
- Heating devices, Producing electrical. E. L. Wiegand. No. 1,136,076; Apr. 20; Gaz. vol. 213; p. 787.
- Heating element, Electric. H. E. Van Doren. No. 1,166,095; Dec. 28; Gaz. vol. 221; p. 1298.
- Heating element, Electrical. E. H. Ruckle. No. 1,165,451; Dec. 28; Gaz. vol. 221; p. 1074.
- Heating-furnace. W. W. Briery and T. M. Scanlon. No. 1,136,861; Apr. 20; Gaz. vol. 213; p. 1067.
- Heating-furnace. J. A. Swindell. No. 1,127,315; Feb. 2; Gaz. vol. 211; p. 227.
- Heating-furnace, Double-jacket. B. E. Rainey. No. 1,165,122; Dec. 21; Gaz. vol. 221; p. 922.
- Heating or cooling apparatus. L. S. Pfouts. No. 1,156,851; Oct. 12; Gaz. vol. 219; p. 557.
- Heating-pad, Electric. N. E. Mann. No. 1,161,146; Nov. 23; Gaz. vol. 220; p. 1095.
- Heating, Steam. A. N. Feiton. No. 1,158,996; Nov. 2; Gaz. vol. 220; p. 204.
- Heating system. E. F. Bliss. No. 1,161,596; Nov. 23; Gaz. vol. 220; p. 1255.
- Heating system. J. H. Giarth. No. 1,134,190; Apr. 6; Gaz. vol. 213; p. 39.
- Heating system. E. E. Gold. No. 1,146,865; July 20; Gaz. vol. 216; p. 700.
- Heating system. L. C. Ord. No. 1,131,946; Mar. 16; Gaz. vol. 212; p. 802.
- Heating system. L. C. Ord. No. 1,131,947; Mar. 16; Gaz. vol. 212; p. 802.
- Heating system. W. Shurtleff. No. 1,166,092; Dec. 28; Gaz. vol. 221; p. 1297.
- Heating system. T. W. Smith. No. 1,135,730; Apr. 13; Gaz. vol. 213; p. 627.
- Heating system. H. S. Williams. No. 1,154,587; Sept. 21; Gaz. vol. 218; p. 852.
- Heating system, Automatic electric. J. F. McElroy. No. 1,128,163; Feb. 9; Gaz. vol. 211; p. 566.
- Heating-system-controlling device. E. C. Sofo. No. 1,138,022; May 4; Gaz. vol. 214; p. 103.
- Heating system, Convertible steam. W. H. Gardiner, Jr. No. 1,160,875; Nov. 16; Gaz. vol. 220; p. 954.
- Heating system, Electric. W. S. Hadaway, Jr. No. 1,142,771; June 8; Gaz. vol. 215; p. 627.
- Heating system, Electric. L. P. Hynes. No. 1,150,939; Aug. 24; Gaz. vol. 217; p. 1092.
- Heating system, Electric hot-water. W. L. Waters. No. 1,144,954; June 29; Gaz. vol. 215; p. 1476.
- Heating system for railway-cars and the like, Automatic electric. L. P. Hynes. No. 1,146,879; July 20; Gaz. vol. 216; p. 706.
- Heating system, Hot-air. J. E. Seltzer. No. 1,134,703; Apr. 6; Gaz. vol. 213; p. 227.
- Heating system, Hot-water. G. H. Gibson. No. 1,141,955; June 8; Gaz. vol. 215; p. 340.
- Heating system, Hot-water. G. H. Gibson. No. 1,142,785; June 8; Gaz. vol. 215; p. 632.
- Heating system, Siphon-vacuum steam. N. Young and G. E. Marston. No. 1,123,643; Jan. 5; Gaz. vol. 210; p. 152.
- Heating system, Steam. E. E. Gold. No. 1,151,937; Aug. 31; Gaz. vol. 217; p. 1479.
- Heating system, Steam. E. E. Gold. No. 1,164,806; Dec. 21; Gaz. vol. 221; p. 810.
- Heating system, Steam. E. E. Gold. No. 1,164,807; Dec. 21; Gaz. vol. 221; p. 810.
- Heating system, Steam. J. F. McElroy. No. 1,157,237; Oct. 19; Gaz. vol. 219; p. 724.
- Heating system, Steam. J. F. McElroy. No. 1,161,872; Nov. 30; Gaz. vol. 220; p. 1395.
- Heating system, Steam. S. A. Reeve. No. 1,165,446; Dec. 28; Gaz. vol. 221; p. 1073.
- Heating system, Steam. J. A. Serrell. No. 1,152,560; Sept. 7; Gaz. vol. 218; p. 67.
- Heating system, Vapor. C. Lauterbach. No. 1,151,199; Aug. 24; Gaz. vol. 217; p. 1181.
- Heating systems, Apparatus for producing and controlling the vacuum in steam. L. Hopkins. No. 1,152,634; Sept. 7; Gaz. vol. 218; p. 93.
- Heating systems, Apparatus for the regulation of. J. A. Stratton. No. 1,129,433; Feb. 23; Gaz. vol. 211; p. 1094.
- Heating systems, Intensifier for hot-water. W. C. McKeown. No. 1,139,130; May 11; Gaz. vol. 214; p. 535.
- Heating systems, Means for accelerating the flow of medium through the radiating-circuits of steam. E. H. Gold. No. 1,162,766; Dec. 7; Gaz. vol. 221; p. 11.
- Heating systems, Pressure-regulator for hot-water. N. E. Frost. No. 1,126,189; Jan. 26; Gaz. vol. 210; p. 1171.
- Heating systems, Thermostatic controller for. J. F. McElroy. No. 1,135,200; Apr. 13; Gaz. vol. 213; p. 441.
- Heating systems, Vacuum-generating apparatus for steam. W. E. Tillinghast. No. 1,147,197; July 20; Gaz. vol. 216; p. 817.
- Heating unit and resistance-coil, Electrical. L. W. Campbell. No. 1,134,818; Apr. 6; Gaz. vol. 213; p. 266.
- Heating unit, Electrical. L. G. Copeman. No. 1,138,733; May 11; Gaz. vol. 214; p. 393.
- Heating unit, Electrical. E. G. Van Wie and R. W. Davenport. No. 1,142,861; June 15; Gaz. vol. 215; p. 697.
- Heating unit, Electrical. E. G. Van Wie and R. W. Davenport. No. 1,142,862; June 15; Gaz. vol. 215; p. 698.
- Heddle and means and method for assembling and handling the same, Detached. E. F. Hathaway and C. Lea. No. 1,149,137; Aug. 3; Gaz. vol. 217; p. 228.
- Heddle-bar support. P. A. Wagner. No. 1,142,290; June 8; Gaz. vol. 215; p. 460.
- Heddle for leno-weaving machines. W. P. Wood. No. 1,132,644; Mar. 23; Gaz. vol. 212; p. 1106.
- Heddle-frame. B. Bentele. No. 1,150,012; Aug. 17; Gaz. vol. 217; p. 711.
- Heddle-frame. J. Kaufmann. No. 1,155,736; Oct. 5; Gaz. vol. 219; p. 143.
- Heddle-frame. J. Walker, Jr. No. 1,129,767; Feb. 23; Gaz. vol. 211; p. 1207.
- Heddle or the like, Detached. C. E. Blair. No. 1,153,857; Sept. 14; Gaz. vol. 218; p. 568.
- Heddle or the like, Detached. C. E. Blair. No. 1,153,858; Sept. 14; Gaz. vol. 218; p. 568.
- Hedge-clipper, Mechanical. H. C. Walter. No. 1,124,824; Jan. 12; Gaz. vol. 210; p. 614.
- Hedge-cutter. H. E. Marshall. No. 1,152,531; Sept. 7; Gaz. vol. 218; p. 56.

Alphabetical list of inventions—Continued.

- Hedge-trimmer. L. Hammel. No. 1,144,542; June 29; Gaz. vol. 215; p. 1336.
- Heel. F. X. Bibeault. No. 1,159,728; Nov. 9; Gaz. vol. 220; p. 498.
- Heel. W. Blaney. No. 1,142,662; June 8; Gaz. vol. 215; p. 589.
- Heel. R. J. Boyd. No. 1,123,475; Jan. 5; Gaz. vol. 210; p. 95.
- Heel. O. T. Hutchison. No. 1,158,053; Oct. 26; Gaz. vol. 219; p. 1071.
- Heel. S. E. P. Matarotta. No. 1,142,598; June 8; Gaz. vol. 215; p. 568.
- Heel. S. L. Snelson. No. 1,123,941; Jan. 5; Gaz. vol. 210; p. 253.
- Heel and rand trimmer. R. L. Greenleaf. No. 1,153,780; Sept. 14; Gaz. vol. 218; p. 539.
- Heel and sole. Rubber. W. Perkins. No. 1,129,007; Feb. 16; Gaz. vol. 211; p. 910.
- Heel and sole. Rubber. O. R. Witter. No. 1,124,988; Jan. 12; Gaz. vol. 210; p. 672.
- Heel-attaching machine. J. Glidden. No. 1,137,476; Apr. 27; Gaz. vol. 213; p. 1326.
- Heel-attaching machine. C. A. Potter. No. 1,133,575; Mar. 30; Gaz. vol. 212; p. 1478.
- Heel-blank-making machine. J. F. Standish. No. 1,126,903; Feb. 2; Gaz. vol. 211; p. 84.
- Heel-blanks. Bulding. W. Wolfe and D. Parks. No. 1,157,355; Oct. 19; Gaz. vol. 219; p. 765.
- Heel, Boot and shoe. B. Weintraub. No. 1,126,144; Jan. 26; Gaz. vol. 210; p. 1153.
- Heel-breast-scouring machine. F. W. Knowlton. No. 1,148,691; Aug. 3; Gaz. vol. 217; p. 75.
- Heel-breast-scouring machine. A. H. McNailey. No. 1,160,097; Nov. 9; Gaz. vol. 220; p. 626.
- Heel-breasting apparatus. E. J. Wilks and W. J. Drey. No. 1,125,239; Jan. 19; Gaz. vol. 210; p. 797.
- Heel-breasting machine. R. C. Simmons. No. 1,133,584; Mar. 30; Gaz. vol. 212; p. 1481.
- Heel-breasting machine. J. J. Sullivan. No. 1,129,136; Feb. 23; Gaz. vol. 211; p. 990.
- Heel-breasting machine. J. J. Sullivan. No. 1,129,137; Feb. 23; Gaz. vol. 211; p. 991.
- Heel-breasting machine. E. A. Webster. No. 1,133,240; Mar. 23; Gaz. vol. 212; p. 1321.
- Heel-building form. A. H. Bradstreet. No. 1,154,744; Sept. 28; Gaz. vol. 218; p. 934.
- Heel-building machine. C. W. Bowen. No. 1,146,996; July 20; Gaz. vol. 216; p. 748.
- Heel-building machine. A. A. Hudson. No. 1,156,842; Oct. 12; Gaz. vol. 219; p. 554.
- Heel-building machine. J. H. Richardson. No. 1,148,716; Aug. 3; Gaz. vol. 217; p. 83.
- Heel-building machine. I. J. Webster. No. 1,137,041; Apr. 27; Gaz. vol. 213; p. 1168.
- Heel-burishing machine. C. A. Matson. No. 1,141,878; June 1; Gaz. vol. 215; p. 276.
- Heel-compressing machine. W. R. Barclay. No. 1,125,254; Jan. 19; Gaz. vol. 210; p. 803.
- Heel-compressing machine. M. T. Denne. No. 1,149,556; Aug. 10; Gaz. vol. 217; p. 483.
- Heel-compressing machine. H. V. Hill. No. 1,127,001; Feb. 2; Gaz. vol. 211; p. 118.
- Heel, Cushion-. A. K. Pomeroy. No. 1,162,709; Nov. 30; Gaz. vol. 220; p. 1683.
- Heel, Cushion-. S. D. Smith. No. 1,131,568; Mar. 9; Gaz. vol. 212; p. 632.
- Heel-cushion for boots and shoes. O. M. Rolfe. No. 1,154,340; Sept. 21; Gaz. vol. 218; p. 767.
- Heel-cushion. Internal. J. Patten. No. 1,166,248; Dec. 28; Gaz. vol. 221; p. 1358.
- Heel-cushion or sock-sole for shoes. C. E. Bullard. No. 1,128,220; Feb. 9; Gaz. vol. 211; p. 585.
- Heel-cushion. Rubber. C. E. Cashman. No. 1,165,847; Dec. 28; Gaz. vol. 221; p. 1211.
- Heel, Detachable. W. M. Fritsche. No. 1,152,721; Sept. 7; Gaz. vol. 218; p. 125.
- Heel, Detachable. G. E. Halsted. No. 1,149,824; Aug. 10; Gaz. vol. 217; p. 582.
- Heel, Detachable. C. W. Lavers. No. 1,160,117; Nov. 9; Gaz. vol. 220; p. 633.
- Heel, Detachable. J. W. Smith. No. 1,127,934; Feb. 9; Gaz. vol. 211; p. 487.
- Heel, Detachable. D. Weiss. No. 1,157,476; Oct. 19; Gaz. vol. 219; p. 808.
- Heel, Detachable shoe-. C. W. Fortin. No. 1,156,769; Oct. 12; Gaz. vol. 219; p. 528.
- Heel for boots and shoes. E. C. Wallace. No. 1,130,356; Mar. 2; Gaz. vol. 212; p. 178.
- Heel for footwear. Detachable. J. A. H. and H. J. Drew. No. 1,160,162; Nov. 16; Gaz. vol. 220; p. 699.
- Heel for rubber footwear. Repair-. J. Capdevila. No. 1,138,725; May 11; Gaz. vol. 214; p. 390.
- Heel for shoes. Interchangeable. T. Doody. No. 1,148,363; July 27; Gaz. vol. 216; p. 1257.
- Heel for shoes. Spring-. T. A. Hussey. No. 1,147,508; July 20; Gaz. vol. 216; p. 927.
- Heel-grip. M. H. Burke. No. 1,155,209; Sept. 28; Gaz. vol. 218; p. 1093.
- Heel gripping and centering device. J. E. Glidden. No. 1,139,267; May 11; Gaz. vol. 214; p. 581.
- Heel-guard for boots or shoes. E. C. Pond. No. 1,139,220; May 11; Gaz. vol. 214; p. 565.
- Heel, Last-. E. J. Prindle. No. 1,146,022; July 13; Gaz. vol. 216; p. 386.
- Heel lift or rand. L. H. Shaw. No. 1,146,288; July 13; Gaz. vol. 216; p. 479.
- Heel-mold-washing machine. R. R. Olin. No. 1,159,077; Nov. 2; Gaz. vol. 220; p. 230.
- Heel-nailing machine. W. E. Scarlett. No. 1,165,364; Dec. 21; Gaz. vol. 221; p. 1004.
- Heel-nailing machine. Automatic. B. F. Mayo. No. 1,134,279; Apr. 6; Gaz. vol. 213; p. 72.
- Heel-nailing machines. Top-lift-cementing means for. G. M. Pettengill. No. 1,156,850; Oct. 12; Gaz. vol. 219; p. 557.
- Heel-pad. H. M. Eaton. No. 1,164,177; Dec. 14; Gaz. vol. 221; p. 549.
- Heel-pad mold. S. Cooke and W. C. Davis. No. 1,140,577; May 25; Gaz. vol. 214; p. 1113.
- Heel-part shoe-turning machine. G. B. Gardner. No. 1,125,506; Jan. 19; Gaz. vol. 210; p. 891.
- Heel-plate. J. Fecko. No. 1,136,112; Apr. 20; Gaz. vol. 213; p. 799.
- Heel-plate. H. G. Robinson. No. 1,124,062; Jan. 5; Gaz. vol. 210; p. 294.
- Heel-plate. J. Solomon. No. 1,134,494; Apr. 6; Gaz. vol. 213; p. 150.
- Heel-plate for rubber heels. T. C. Beazley. No. 1,153,368; Sept. 14; Gaz. vol. 218; p. 394.
- Heel-plate. Removable. M. Robaszewski. No. 1,163,261; Dec. 7; Gaz. vol. 221; p. 185.
- Heel-pocket. J. J. Allen. No. 1,129,439; Feb. 23; Gaz. vol. 211; p. 1096.
- Heel-press. J. H. Pope. No. 1,161,883; Nov. 30; Gaz. vol. 220; p. 1399.
- Heel-press. C. O. Ryberg. No. 1,158,299; Oct. 26; Gaz. vol. 219; p. 1158.
- Heel-protector. Elastic. E. Haaf. No. 1,125,019; Jan. 12; Gaz. vol. 210; p. 683.
- Heel-reducing device. Shoe-. L. E. Johnson and E. Erickson. No. 1,154,572; Sept. 21; Gaz. vol. 218; p. 846.
- Heel, Resilient or cushion. G. H. P. Foster. No. 1,154,917; Sept. 23; Gaz. vol. 218; p. 992.
- Heel-rest. B. B. West. No. 1,162,959; Dec. 7; Gaz. vol. 221; p. 79.
- Heel, Rotatable shoe-. J. Schall. No. 1,140,004; May 18; Gaz. vol. 214; p. 878.
- Heel, Rubber. I. R. Bailey. No. 1,141,227; June 1; Gaz. vol. 215; p. 48.
- Heel, Rubber. E. J. Emery. No. 1,165,235; Dec. 21; Gaz. vol. 221; p. 961.
- Heel, Rubber. J. M. van Heusen. No. 1,140,635; May 25; Gaz. vol. 214; p. 1134.
- Heel, Safety-. A. C. Rightor. No. 1,134,228; Apr. 6; Gaz. vol. 213; p. 53.
- Heel-seat cutter. Rotary. A. L. Green. No. 1,145,062; July 6; Gaz. vol. 216; p. 32.
- Heel-seat rounding and randing mechanism. L. G. Freeman. No. 1,139,025; May 11; Gaz. vol. 214; p. 498.
- Heel-seat-trimming machine for use in the manufacture of boots and shoes. M. T. Denne. No. 1,152,799; Sept. 7; Gaz. vol. 218; p. 153.
- Heel-seat-trimming machine. Insole-. E. E. Winkley. No. 1,134,027; Mar. 30; Gaz. vol. 212; p. 1634.
- Heel-section. Detachable. L. Hain. No. 1,134,263; Apr. 6; Gaz. vol. 213; p. 67.
- Heel, Shoe-. E. W. Burt. No. 1,151,511; Aug. 24; Gaz. vol. 217; p. 1285.
- Heel, Shoe-. L. F. Hering. No. 1,139,417; May 11; Gaz. vol. 214; p. 634.
- Heel, Shoe-. E. S. Helwitz and A. Lobel. No. 1,134,383; Apr. 6; Gaz. vol. 213; p. 109.
- Heel, Spring-. R. Kurz. No. 1,127,456; Feb. 9; Gaz. vol. 211; p. 318.
- Heel, Spring-. J. J. Randall. No. 1,160,756; Nov. 16; Gaz. vol. 220; p. 913.
- Heel-stiffener. M. Brock. No. 1,141,913; June 1; Gaz. vol. 215; p. 291.
- Heel-stiffener for boots and shoes. A. Pittroff. No. 1,154,429; Sept. 21; Gaz. vol. 218; p. 797.
- Heel-sweep. H. A. Dean. No. 1,130,489; Mar. 2; Gaz. vol. 212; p. 228.
- Heel-top-lift-attaching device. Wood-. A. C. Witham. No. 1,148,269; July 27; Gaz. vol. 216; p. 1222.
- Heels and other tread-surfaces. Friction and metal plug for rubber. F. Berenstein. No. 1,155,874; Oct. 5; Gaz. vol. 219; p. 192.
- Heels, Cushion top lift for. J. A. Hall. No. 1,133,135; Mar. 23; Gaz. vol. 212; p. 1286.
- Heels, &c., Friction and metal plug for rubber. S. J. Harris. No. 1,129,672; Feb. 23; Gaz. vol. 211; p. 1176.
- Heels, Machine for operating on. T. Lund. No. 1,161,058; Nov. 23; Gaz. vol. 220; p. 1063.
- Heels, Machine for operating upon. I. E. Fletcher. No. 1,132,080; Mar. 16; Gaz. vol. 212; p. 851.
- Heels, Machine for operating upon. T. Lund. No. 1,135,034; Apr. 13; Gaz. vol. 213; p. 385.
- Heels, Machine for operating upon. R. C. Simmons. No. 1,143,921; June 22; Gaz. vol. 215; p. 1090.
- Heels of boots and shoes. Machine for breasting the. M. D. Phelan. (Reissue.) No. 13,972; Aug. 24; Gaz. vol. 217; p. 1312.

Alphabetical list of inventions—Continued.

- Heels of boots and shoes, Machine for operating upon the. H. M. Loomer. No. 1,160,989; Nov. 16; Gaz. vol. 220; p. 994.
- Heels or top lifts, Holder for. F. W. Gleason. No. 1,143,900; June 22; Gaz. vol. 215; p. 1083.
- Heels, Wear-plate for shoe-. A. J. White and F. A. Hawley. No. 1,139,743; May 18; Gaz. vol. 214; p. 784.
- Heeling-machine. J. E. Glidden. No. 1,138,948; May 11; Gaz. vol. 214; p. 469.
- Heeling-machine. L. L. Glidden. No. 1,157,688; Oct. 26; Gaz. vol. 219; p. 944.
- Heeling-machine. A. E. Jerram, J. Gouldbourn, and A. Bates. No. 1,157,689; Oct. 26; Gaz. vol. 219; p. 945.
- Heeling-machine. T. Lund. No. 1,139,199; May 11; Gaz. vol. 214; p. 559.
- Helical gears, Manufacturing elastic. K. Alquist. No. 1,165,933; Dec. 28; Gaz. vol. 221; p. 1241.
- Helicopter. E. Berliner. No. 1,152,268; Aug. 31; Gaz. vol. 217; p. 1593.
- Helicopter. W. B. Hartley. No. 1,153,073; Sept. 7; Gaz. vol. 218; p. 251.
- Helicopter. A. Papin and D. Rouilly. No. 1,133,660; Mar. 30; Gaz. vol. 212; p. 1510.
- Helix, Conical. C. D. Herrold. No. 1,145,366; July 6; Gaz. vol. 216; p. 136.
- Helmet. F. M. Bowers. No. 1,135,759; Apr. 13; Gaz. vol. 213; p. 636.
- Helmet. C. M. Edelhausen. No. 1,154,494; Sept. 21; Gaz. vol. 218; p. 819.
- Helmet. W. F. Engelfried and G. A. Elfers. No. 1,131,350; Mar. 9; Gaz. vol. 212; p. 557.
- Helmet. C. Jacobs. No. 1,148,902; Aug. 3; Gaz. vol. 217; p. 148.
- Hemmer, Adjustable. C. Stafford. No. 1,153,459; Sept. 14; Gaz. vol. 218; p. 426.
- Hemoglobinometer. J. L. Whitney. No. 1,143,675; June 22; Gaz. vol. 215; p. 1007.
- Hen-marker, Automatic. R. M. Winning. No. 1,161,569; Nov. 23; Gaz. vol. 220; p. 1246.
- Hens from setting, Apparatus to break. E. C. Marvin. No. 1,148,394; July 27; Gaz. vol. 216; p. 1267.
- Hermetically-sealed jar. W. C. Buhles and J. A. Landsberger. No. 1,158,784; Nov. 2; Gaz. vol. 220; p. 131.
- Hexamethylene-tetramin, Compounds of. F. Boedecker. No. 1,133,916; Mar. 30; Gaz. vol. 212; p. 1599.
- Hide and leather working machine. F. Wayland. No. 1,131,756; Mar. 16; Gaz. vol. 212; p. 733.
- Hides and skins, Apparatus for treating. W. E. Broughton. No. 1,158,628; Nov. 2; Gaz. vol. 220; p. 78.
- Hides or leather, Machine for treating. A. H. Kehrhaun. No. 1,147,098; July 20; Gaz. vol. 216; p. 783.
- Hides, skins, and leather, Machine for treating. D. P. O'Brien. No. 1,150,532; Aug. 17; Gaz. vol. 217; p. 893.
- High chair and crib, Convertible child's. C. Jacobsen. No. 1,137,325; Apr. 27; Gaz. vol. 213; p. 1272.
- High chair, Collapsible. L. M. Smith. No. 1,164,421; Dec. 14; Gaz. vol. 221; p. 635.
- High chair for children. E. P. Vaughn. No. 1,136,300; Apr. 20; Gaz. vol. 213; p. 868.
- High-potential switch, Remote-control. W. E. Harkness. No. 1,142,252; June 8; Gaz. vol. 215; p. 447.
- High-tension converter system. P. C. Hewitt. No. 1,161,820; Nov. 23; Gaz. vol. 220; p. 1331.
- Hinge. W. S. Ault. No. 1,128,931; Feb. 16; Gaz. vol. 211; p. 883.
- Hinge. F. H. Bennett and E. A. Robertson. No. 1,141,303; June 1; Gaz. vol. 215; p. 77.
- Hinge. W. S. Bridges. No. 1,135,349; Apr. 13; Gaz. vol. 213; p. 492.
- Hinge. C. W. Carter. No. 1,125,265; Jan. 19; Gaz. vol. 210; p. 807.
- Hinge. L. W. Christophel. No. 1,132,560; Mar. 23; Gaz. vol. 212; p. 1074.
- Hinge. R. B. Dwyer. No. 1,145,759; July 6; Gaz. vol. 216; p. 274.
- Hinge. R. D. Edwards. No. 1,124,400; Jan. 12; Gaz. vol. 210; p. 461.
- Hinge. A. L. Foote. No. 1,129,284; Feb. 23; Gaz. vol. 211; p. 1041.
- Hinge. H. S. Getty and J. Eichel. No. 1,132,255; Mar. 16; Gaz. vol. 212; p. 917.
- Hinge. W. E. Gould. No. 1,132,927; Mar. 23; Gaz. vol. 212; p. 1209.
- Hinge. E. W. Hasenpflug. No. 1,145,241; July 6; Gaz. vol. 216; p. 94.
- Hinge. W. F. Hays. No. 1,142,167; June 8; Gaz. vol. 215; p. 417.
- Hinge. W. S. Heal. No. 1,159,378; Nov. 9; Gaz. vol. 220; p. 369.
- Hinge. R. W. Hubbard. No. 1,126,764; Feb. 2; Gaz. vol. 211; p. 35.
- Hinge. T. J. Kehoe. No. 1,139,771; May 18; Gaz. vol. 214; p. 794.
- Hinge. T. J. Kehoe. No. 1,157,006; Oct. 19; Gaz. vol. 219; p. 641.
- Hinge. A. Krell. No. 1,165,518; Dec. 28; Gaz. vol. 221; p. 1097.
- Hinge. O. W. McAlpin. No. 1,140,604; May 25; Gaz. vol. 214; p. 1123.
- Hinge. N. H. Morrow. No. 1,157,713; Oct. 26; Gaz. vol. 219; p. 953.
- Hinge. M. B. Moyer. No. 1,160,436; Nov. 16; Gaz. vol. 220; p. 796.
- Hinge. J. P. Moynihan. No. 1,132,601; Mar. 23; Gaz. vol. 212; p. 1089.
- Hinge. G. E. Neuberth. No. 1,149,212; Aug. 10; Gaz. vol. 217; p. 360.
- Hinge. G. E. Neuberth. No. 1,149,213; Aug. 10; Gaz. vol. 217; p. 361.
- Hinge. W. N. Offutt, Sr. No. 1,154,538; Sept. 21; Gaz. vol. 218; p. 834.
- Hinge. F. Parizek. No. 1,159,529; Nov. 9; Gaz. vol. 220; p. 422.
- Hinge. R. C. Pleins. No. 1,135,547; Apr. 13; Gaz. vol. 213; p. 561.
- Hinge. W. C. Ramsey. No. 1,155,161; Sept. 28; Gaz. vol. 218; p. 1078.
- Hinge. O. C. Rixson. No. 1,125,177; Jan. 19; Gaz. vol. 210; p. 775.
- Hinge. C. E. Smith. No. 1,127,933; Feb. 9; Gaz. vol. 211; p. 486.
- Hinge. C. J. Soss. No. 1,153,720; Sept. 14; Gaz. vol. 218; p. 519.
- Hinge. M. H. Stoll. No. 1,138,025; May 4; Gaz. vol. 214; p. 104.
- Hinge. A. Sundb. No. 1,141,989; June 8; Gaz. vol. 215; p. 353.
- Hinge. C. W. Trinkaus. No. 1,142,542; June 8; Gaz. vol. 215; p. 549.
- Hinge. W. F. Troutman. No. 1,140,216; May 18; Gaz. vol. 214; p. 951.
- Hinge, Adjustable. G. V. Hodgkin. No. 1,139,524; May 18; Gaz. vol. 214; p. 707.
- Hinge, Adjustable. H. Pearson and J. Renfrew. No. 1,144,057; June 22; Gaz. vol. 215; p. 1139.
- Hinge and check, Combined spring. A. Allgier. No. 1,155,867; Oct. 5; Gaz. vol. 219; p. 189.
- Hinge and fastener, Car-door. P. C. Saccaggio. No. 1,154,061; Sept. 21; Gaz. vol. 218; p. 672.
- Hinge and ladder for silos, Combined. J. Weigel. No. 1,126,170; Jan. 26; Gaz. vol. 210; p. 1164.
- Hinge and ladder for silos, Combined. J. Weigel. No. 1,158,756; Nov. 2; Gaz. vol. 220; p. 121.
- Hinge, Ball-bearing. C. A. Ely. No. 1,156,765; Oct. 12; Gaz. vol. 219; p. 527.
- Hinge, Blind-. J. W. Tatum. No. 1,144,262; June 22; Gaz. vol. 215; p. 1212.
- Hinge, Brake-. J. F. Dickerson. No. 1,163,324; Dec. 7; Gaz. vol. 221; p. 206.
- Hinge, Butt-. E. L. Teich. No. 1,139,921; May 18; Gaz. vol. 214; p. 847.
- Hinge, Casement-. B. J. Brownjohn. No. 1,141,171; June 1; Gaz. vol. 215; p. 29.
- Hinge-clamp. B. Stock. No. 1,145,521; July 6; Gaz. vol. 216; p. 191.
- Hinge, Coach-. H. A. Lomason. No. 1,129,877; Mar. 2; Gaz. vol. 212; p. 15.
- Hinge, Concealed. L. Bowman. No. 1,152,000; Aug. 31; Gaz. vol. 217; p. 1501.
- Hinge construction. G. A. Lyon. No. 1,152,958; Sept. 7; Gaz. vol. 218; p. 213.
- Hinge construction for face-plates, &c. W. L. Babcock. No. 1,130,241; Mar. 2; Gaz. vol. 212; p. 138.
- Hinge, Door-. E. Andersen and H. M. Mink. No. 1,134,309; Apr. 6; Gaz. vol. 213; p. 83.
- Hinge, Door-check. C. H. Busch. No. 1,134,510; Apr. 6; Gaz. vol. 213; p. 156.
- Hinge, Double-acting lavatory-. O. Katzenberger. No. 1,138,484; May 4; Gaz. vol. 214; p. 268.
- Hinge, Double-acting spring-. E. Bommer. No. 1,131,661; Mar. 16; Gaz. vol. 212; p. 699.
- Hinge, Duplex continuous. H. B. Todd. No. 1,157,065; Oct. 19; Gaz. vol. 219; p. 663.
- Hinge, Extension bracket-. J. P. Voelker. No. 1,158,341; Oct. 26; Gaz. vol. 219; p. 1172.
- Hinge fixture, Sash-. C. I. Shirley and F. W. Mueller. No. 1,135,407; Apr. 13; Gaz. vol. 213; p. 511.
- Hinge fixture, Trunk-. G. H. Wheary. No. 1,137,940; May 4; Gaz. vol. 214; p. 76.
- Hinge for celluloid articles. W. J. Hines. No. 1,160,984; Nov. 16; Gaz. vol. 220; p. 992.
- Hinge for doors, Spring-. E. Bommer. No. 1,131,659; Mar. 16; Gaz. vol. 212; p. 698.
- Hinge for filling appliances. E. B. Moseley. No. 1,148,918; Aug. 3; Gaz. vol. 217; p. 154.
- Hinge for metallic-window ventilators, Adjustable. D. C. Briggs. No. 1,134,180; Apr. 6; Gaz. vol. 213; p. 35.
- Hinge for vehicle-doors. A. Krah. No. 1,142,584; June 8; Gaz. vol. 215; p. 564.
- Hinge for vehicle-doors. S. W. Parsons. No. 1,164,857; Dec. 21; Gaz. vol. 221; p. 828.
- Hinge for water-closet seats. C. Pfau. No. 1,127,919; Feb. 9; Gaz. vol. 211; p. 481.
- Hinge for water-closet seats. P. Shwab. No. 1,128,629; Feb. 16; Gaz. vol. 211; p. 776.
- Hinge, Friction-. W. L. Foster. No. 1,153,903; Sept. 21; Gaz. vol. 218; p. 617.
- Hinge-gage. J. F. Godefroy and A. J. Kugler. No. 1,128,970; Feb. 16; Gaz. vol. 211; p. 897.
- Hinge, Gate-. L. T. Jack. No. 1,146,500; July 13; Gaz. vol. 216; p. 556.
- Hinge, Gate-. A. J. Kolashinske. No. 1,130,908; Mar. 9; Gaz. vol. 212; p. 406.

Alphabetical list of inventions—Continued.

- Hinge, Gate-. G. E. Mueller. No. 1,123,913; Jan. 5; Gaz. vol. 210; p. 244.
- Hinge, Gate-. W. C. Nolte. No. 1,126,067; Jan. 26; Gaz. vol. 210; p. 1125.
- Hinge, Gate-. E. Rhody. No. 1,141,828; June 1; Gaz. vol. 215; p. 259.
- Hinge, Gate-. M. Riddle. No. 1,129,731; Feb. 23; Gaz. vol. 211; p. 1194.
- Hinge, Gate-. A. V. Rowe. No. 1,162,311; Nov. 30; Gaz. vol. 220; p. 1551.
- Hinge, Gate-. A. Sundh. No. 1,136,379; Apr. 20; Gaz. vol. 213; p. 896.
- Hinge, Gate-. A. Sundh. No. 1,139,822; May 18; Gaz. vol. 214; p. 813.
- Hinge, Gate-. A. Sundh. No. 1,156,943; Oct. 19; Gaz. vol. 219; p. 618.
- Hinge, Gate-. G. Wenzelmann. No. 1,133,417; Mar. 30; Gaz. vol. 212; p. 1422.
- Hinge, Invisible surface. O. Katzenberger. No. 1,144,207; June 22; Gaz. vol. 215; p. 1194.
- Hinge-joint. F. A. Anderson. No. 1,144,090; June 22; Gaz. vol. 215; p. 1151.
- Hinge-joint for wind-shields. P. N. Landine. No. 1,161,231; Nov. 23; Gaz. vol. 220; p. 1127.
- Hinge-joint, Wind-shield. P. N. Landine. No. 1,159,506; Nov. 9; Gaz. vol. 220; p. 414.
- Hinge, Leaf-. H. W. Shelp. No. 1,129,240; Feb. 23; Gaz. vol. 211; p. 1026.
- Hinge, Lever-. A. A. Nelson. No. 1,161,786; Nov. 23; Gaz. vol. 220; p. 1320.
- Hinge, Locking-. G. W. Kirschner. No. 1,139,193; May 11; Gaz. vol. 214; p. 557.
- Hinge-locking attachment. W. E. Banzett. No. 1,133,454; Mar. 30; Gaz. vol. 212; p. 1434.
- Hinge mechanism. G. A. Long. No. 1,138,128; May 4; Gaz. vol. 214; p. 145.
- Hinge mechanism. A. Sundh. No. 1,155,452; Oct. 5; Gaz. vol. 219; p. 44.
- Hinge mechanism. W. S. Williams. No. 1,144,404; June 29; Gaz. vol. 215; p. 1289.
- Hinge-pin fastening. W. R. Young. No. 1,161,573; Nov. 23; Gaz. vol. 220; p. 1247.
- Hinge, Pivot-. F. E. Larscheid, F. W. Carlson, and J. Firner. No. 1,162,936; Dec. 7; Gaz. vol. 221; p. 70.
- Hinge, Screwless door-. P. J. Carney. No. 1,150,744; Aug. 17; Gaz. vol. 217; p. 966.
- Hinge, Self-adjusting spring-. R. E. Jones. No. 1,139,296; May 11; Gaz. vol. 214; p. 590.
- Hinge, Self-closing. G. H. A. Reich. No. 1,152,046; Aug. 31; Gaz. vol. 217; p. 1517.
- Hinge, Self-locking. C. Diener. No. 1,140,129; May 18; Gaz. vol. 214; p. 922.
- Hinge, Self-locking. C. Diener. No. 1,141,782; June 1; Gaz. vol. 215; p. 244.
- Hinge, Self-locking. F. H. Robinson. No. 1,151,397; Aug. 24; Gaz. vol. 217; p. 1246.
- Hinge, Single-acting jamb-. O. Katzenberger. No. 1,140,308; May 18; Gaz. vol. 214; p. 982.
- Hinge, Single-acting lavatory-. O. Katzenberger. No. 1,142,582; June 8; Gaz. vol. 215; p. 563.
- Hinge, Spring-. G. Boland. No. 1,155,702; Oct. 5; Gaz. vol. 219; p. 132.
- Hinge, Spring-. E. Bommer. No. 1,131,658; Mar. 16; Gaz. vol. 212; p. 698.
- Hinge, Spring-. E. Bommer. No. 1,131,660; Mar. 16; Gaz. vol. 212; p. 699.
- Hinge, Spring-. E. Bommer. No. 1,131,662; Mar. 16; Gaz. vol. 212; p. 700.
- Hinge, Spring-. E. Bommer. No. 1,131,663; Mar. 16; Gaz. vol. 212; p. 700.
- Hinge, Spring-. E. Bommer. No. 1,131,664; Mar. 16; Gaz. vol. 212; p. 700.
- Hinge, Spring-. E. Bommer. No. 1,131,665; Mar. 16; Gaz. vol. 212; p. 700.
- Hinge, Spring-. E. Bommer. No. 1,131,666; Mar. 16; Gaz. vol. 212; p. 701.
- Hinge, Spring-. E. Bommer. No. 1,131,667; Mar. 16; Gaz. vol. 212; p. 701.
- Hinge, Spring-. F. Brucker. No. 1,123,478; Jan. 5; Gaz. vol. 210; p. 96.
- Hinge, Spring-. H. D. Flegel. No. 1,135,274; Apr. 13; Gaz. vol. 213; p. 465.
- Hinge, Spring-. W. J. Keene and G. W. Schuster. No. 1,151,688; Aug. 31; Gaz. vol. 217; p. 1393.
- Hinge, Spring-. W. B. Smith. No. 1,127,688; Feb. 9; Gaz. vol. 211; p. 396.
- Hinge, Spring-. C. A. Tanner. No. 1,147,827; July 27; Gaz. vol. 216; p. 1064.
- Hinge, Stove-door. F. G. Nicolaus. No. 1,159,254; Nov. 2; Gaz. vol. 220; p. 294.
- Hinge, Stove-door. F. G. Nicolaus. No. 1,159,255; Nov. 2; Gaz. vol. 220; p. 295.
- Hinge-support. B. C. Potts. No. 1,163,769; Dec. 14; Gaz. vol. 221; p. 408.
- Hinge, Two-part. A. B. Hipolito. No. 1,162,236; Nov. 30; Gaz. vol. 220; p. 1524.
- Hinge, Two-part. A. B. Hipolito. No. 1,162,237; Nov. 30; Gaz. vol. 220; p. 1524.
- Hinge, Vertically-adjustable. O. E. Fells. No. 1,154,850; Sept. 28; Gaz. vol. 218; p. 969.
- Hinges, Alining-plate for floor-. O. Katzenberger. No. 1,157,548; Oct. 19; Gaz. vol. 219; p. 832.
- Hinges for stove-doors or the like, Making. B. A. Baxter. No. 1,143,023; June 15; Gaz. vol. 215; p. 755.
- Hinges, Machine for assembling spring-. G. N. Barcus and C. E. Smith. No. 1,137,451; Apr. 27; Gaz. vol. 213; p. 1317.
- Hinged case. M. Münzner. No. 1,128,620; Feb. 16; Gaz. vol. 211; p. 773.
- Hinged connection. P. H. Coleman. No. 1,135,359; Apr. 13; Gaz. vol. 213; p. 495.
- Hip-reducer. J. M. Bodensiek. No. 1,126,367; Jan. 26; Gaz. vol. 210; p. 1234.
- Hitching appliance. H. B. Sawyer. No. 1,145,849; July 6; Gaz. vol. 216; p. 306.
- Hitching appliance. H. B. Sawyer. No. 1,145,850; July 6; Gaz. vol. 216; p. 306.
- Hitching device. C. W. Block. No. 1,153,188; Sept. 14; Gaz. vol. 218; p. 328.
- Hitching device. J. Sutton. No. 1,149,967; Aug. 10; Gaz. vol. 217; p. 633.
- Hobbie. W. Welches. No. 1,130,049; Mar. 2; Gaz. vol. 212; p. 72.
- Hobby-horse. A. Olfort. No. 1,147,883; July 27; Gaz. vol. 216; p. 1084.
- Hobby-horse and tricycle. E. G. Lansden and A. C. Grimsley. No. 1,125,698; Jan. 19; Gaz. vol. 210; p. 962.
- Hobby-horse, Traveling. J. W. Greene. No. 1,137,604; Apr. 27; Gaz. vol. 213; p. 1368.
- Hobnail. W. E. Roberts. No. 1,124,330; Jan. 12; Gaz. vol. 210; p. 436.
- Hockey-stick. N. T. Fogg. No. 1,143,376; June 15; Gaz. vol. 215; p. 880.
- Hoe. E. Arnold. No. 1,139,472; May 18; Gaz. vol. 214; p. 689.
- Hoe. J. W. Barwick. No. 1,160,238; Nov. 16; Gaz. vol. 220; p. 728.
- Hoe. A. C. Bruce. No. 1,148,210; July 27; Gaz. vol. 216; p. 1201.
- Hoe. W. H. Dock. No. 1,153,202; Sept. 14; Gaz. vol. 218; p. 333.
- Hoe. E. Senn. No. 1,129,052; Feb. 16; Gaz. vol. 211; p. 926.
- Hoe. R. E. Wright. No. 1,128,742; Feb. 16; Gaz. vol. 211; p. 815.
- Hoe. F. Zima. No. 1,157,356; Oct. 19; Gaz. vol. 219; p. 765.
- Hoe, Adjustable. J. J. Armstrong, Jr. No. 1,147,913; July 27; Gaz. vol. 216; p. 1095.
- Hoe, Adjustable. C. A. Bradley. No. 1,140,020; May 18; Gaz. vol. 214; p. 883.
- Hoe and rake, Combination garden. C. W. Lott and J. J. Heiman. No. 1,133,159; Mar. 23; Gaz. vol. 212; p. 1295.
- Hoe and weeder, Combined. S. M. Schroeder and J. E. Norwood. No. 1,156,714; Oct. 12; Gaz. vol. 219; p. 509.
- Hoe, Garden-. J. M. Pringle. No. 1,148,534; Aug. 3; Gaz. vol. 217; p. 18.
- Hoe, Mortar-. H. C. Holmes. No. 1,127,440; Feb. 9; Gaz. vol. 211; p. 312.
- Hoe, Rotary. W. S. Graham. No. 1,128,869; Feb. 16; Gaz. vol. 211; p. 859.
- Hoe, weeder, and plant-protector, Combined. I. Hills. No. 1,132,344; Mar. 16; Gaz. vol. 212; p. 948.
- Hoes or cultivators, Driving mechanism for rotary power. K. H. W. L. Seck. No. 1,152,558; Sept. 7; Gaz. vol. 218; p. 66.
- Hog catching and holding device. J. A. Furstahl. No. 1,152,165; Aug. 31; Gaz. vol. 217; p. 1558.
- Hog-dressing machine. G. C. Morrison. No. 1,146,589; July 13; Gaz. vol. 216; p. 587.
- Hog-ring. G. Gloggnier. No. 1,153,061; Sept. 7; Gaz. vol. 218; p. 247.
- Hog-ringer. W. L. McGowan. No. 1,136,149; Apr. 20; Gaz. vol. 213; p. 814.
- Hog-trap. J. H. Flatley. No. 1,135,004; Apr. 13; Gaz. vol. 213; p. 374.
- Hoist. A. L. Brouillette. No. 1,140,440; May 25; Gaz. vol. 214; p. 1064.
- Hoist. A. M. Harrington and P. Mullen. No. 1,143,958; June 22; Gaz. vol. 215; p. 1104.
- Hoist. W. S. Smith. No. 1,163,786; Dec. 14; Gaz. vol. 221; p. 414.
- Hoist and conveyer, Combined. C. J. Scherrer. No. 1,143,786; June 22; Gaz. vol. 215; p. 1043.
- Hoist, Barrel-. W. W. Holsclaw and F. Komp. No. 1,143,396; June 15; Gaz. vol. 215; p. 888.
- Hoist, Bulkhead-. H. L. Hawkins. No. 1,148,382; July 27; Gaz. vol. 216; p. 1263.
- Hoist, Chain. W. Barry. No. 1,128,401; Feb. 16; Gaz. vol. 211; p. 697.
- Hoist, Combination portable rope. S. E. Kalbach. No. 1,153,497; Sept. 14; Gaz. vol. 218; p. 440.
- Hoist, Continuous mine-. E. O'Toole. No. 1,165,017; Dec. 21; Gaz. vol. 221; p. 883.
- Hoist, Double-gear chain. G. R. Carothers. No. 1,124,390; Jan. 12; Gaz. vol. 210; p. 458.
- Hoist, Electrically-driven. W. A. Barker. No. 1,141,679; June 1; Gaz. vol. 215; p. 211.
- Hoist, Portable rope. S. E. Kalbach. No. 1,153,496; Sept. 14; Gaz. vol. 218; p. 440.

Alphabetical list of inventions—Continued.

- Hoister, Portable. W. P. Allen. No. 1,148,068; July 27; Gaz. vol. 216; p. 1150.
- Hoisting and conveying apparatus. J. McMyler. No. 1,128,806; Feb. 16; Gaz. vol. 211; p. 837.
- Hoisting and conveying apparatus. C. S. Williamson. No. 1,161,274; Nov. 23; Gaz. vol. 220; p. 1142.
- Hoisting and conveying apparatus indicator. D. P. Williams. No. 1,156,733; Oct. 12; Gaz. vol. 219; p. 516.
- Hoisting and conveying machine. M. R. Colby and J. Stewart. No. 1,136,939; Apr. 27; Gaz. vol. 213; p. 1130.
- Hoisting and dumping mechanism. F. E. Arndt. No. 1,154,474; Sept. 21; Gaz. vol. 218; p. 813.
- Hoisting apparatus. J. A. Anderson and O. T. Ferngren. No. 1,149,612; Aug. 10; Gaz. vol. 217; p. 505.
- Hoisting apparatus. W. F. Geoghegan. (Reissue.) No. 1,399,6; Oct. 19; Gaz. vol. 219; p. 872.
- Hoisting apparatus. J. A. Kearney. No. 1,150,604; Aug. 17; Gaz. vol. 217; p. 919.
- Hoisting apparatus. N. Lacroix. No. 1,157,557; Oct. 19; Gaz. vol. 219; p. 835.
- Hoisting apparatus for silos, &c. H. Santrock. No. 1,152,035; Aug. 31; Gaz. vol. 217; p. 1520.
- Hoisting-apparatus locking device. W. Rutan. No. 1,163,176; Dec. 7; Gaz. vol. 221; p. 155.
- Hoisting apparatus. Power. C. H. La France. No. 1,161,229; Nov. 23; Gaz. vol. 220; p. 1126.
- Hoisting device. I. C. Moulton. No. 1,124,938; Jan. 12; Gaz. vol. 210; p. 654.
- Hoisting device. L. V. and L. J. Stone. No. 1,134,707; Apr. 6; Gaz. vol. 213; p. 228.
- Hoisting device. Horse-power. E. Schultz. No. 1,146,598; July 13; Gaz. vol. 216; p. 590.
- Hoisting-drum and clutch. M. B. Moyer. No. 1,141,819; June 1; Gaz. vol. 215; p. 256.
- Hoisting-engine. S. T. Nelson. No. 1,129,044; Feb. 16; Gaz. vol. 211; p. 923.
- Hoisting-engines. Automatic brake-setting device for mine. A. W. Charles and C. E. McDonald. No. 1,127,183; Feb. 2; Gaz. vol. 211; p. 183.
- Hoisting-hook. L. J. Black. No. 1,144,099; June 22; Gaz. vol. 215; p. 1155.
- Hoisting-hook. J. Chab. No. 1,150,500; Aug. 17; Gaz. vol. 217; p. 883.
- Hoisting-jack and stand, Combined. J. A. McMasters. No. 1,160,629; Nov. 16; Gaz. vol. 220; p. 867.
- Hoisting-machine. F. L. Arduser. No. 1,131,103; Mar. 9; Gaz. vol. 212; p. 472.
- Hoisting-machine. W. A. Barker. No. 1,155,784; Oct. 5; Gaz. vol. 219; p. 160.
- Hoisting-machines. Combination automatic and lowering brake for. F. A. Rundle. No. 1,153,957; Sept. 21; Gaz. vol. 218; p. 635.
- Hoisting-machinery safety attachment. G. F. Royer. No. 1,129,733; Feb. 23; Gaz. vol. 211; p. 1195.
- Hoisting machinery. Worm-gear. J. A. Butterworth. No. 1,128,754; Feb. 16; Gaz. vol. 211; p. 818.
- Hoisting mechanism. E. S. Colley. No. 1,164,617; Dec. 14; Gaz. vol. 221; p. 702.
- Hoisting mechanism. E. Hubback. No. 1,138,873; May 11; Gaz. vol. 214; p. 443.
- Hoisting mechanism. E. Y. Moore. No. 1,130,420; Mar. 2; Gaz. vol. 212; p. 202.
- Hoisting mechanism. Intermittent-grip device for. R. J. McCoy. No. 1,140,519; May 25; Gaz. vol. 214; p. 1094.
- Holddown. C. B. Council. No. 1,129,074; Feb. 23; Gaz. vol. 211; p. 968.
- Holddown. F. Ellis. No. 1,138,855; May 11; Gaz. vol. 214; p. 438.
- Holddown. H. M. Hart. No. 1,138,856; May 11; Gaz. vol. 214; p. 438.
- Holddown. A. C. Spencer. No. 1,150,072; Aug. 17; Gaz. vol. 217; p. 731.
- Holder. *See—*
Brush-holder.
- Holder. F. C. Davis. No. 1,127,602; Feb. 9; Gaz. vol. 211; p. 368.
- Holder. A. S. Weldy. No. 1,162,003; Nov. 30; Gaz. vol. 220; p. 1442.
- Holder and cutter. M. Neurer. No. 1,137,655; Apr. 27; Gaz. vol. 213; p. 1385.
- Holder attachment. M. Pomeroy. No. 1,156,370; Oct. 12; Gaz. vol. 219; p. 388.
- Holding or suspending device. J. H. Daugherty and M. L. Hahn. No. 1,141,867; June 1; Gaz. vol. 215; p. 271.
- Hollow article of refractory material. A. T. Malm. No. 1,152,428; Sept. 7; Gaz. vol. 218; p. 16.
- Hollow articles by dies. Apparatus for forming. H. G. Carlson. No. 1,156,972; Oct. 19; Gaz. vol. 219; p. 630.
- Hollow block. D. McIntyre. No. 1,128,020; Feb. 9; Gaz. vol. 211; p. 517.
- Hollow body of fibrous material. J. C. Ward. No. 1,156,193; Oct. 12; Gaz. vol. 219; p. 326.
- Hollow clay articles preparatory to drying and firing. Apparatus for finishing the ends of. G. E. Goldner. No. 1,128,597; Feb. 16; Gaz. vol. 211; p. 765.
- Hollow mill. O. Ebert. No. 1,165,859; Dec. 28; Gaz. vol. 221; p. 1216.
- Hollow nail. G. Pesenti. No. 1,154,881; Sept. 28; Gaz. vol. 218; p. 979.
- Holster. D. H. Snively. No. 1,148,935; Aug. 3; Gaz. vol. 217; p. 160.
- Honey-section former and comb-foundation fastener. A. G. Woodman. No. 1,127,568; Feb. 9; Gaz. vol. 211; p. 356.
- Honeycomb-decapping knife. O. B. Poore. No. 1,160,754; Nov. 16; Gaz. vol. 220; p. 913.
- Honeycomb-frame. B. L. Johnson. No. 1,164,192; Dec. 14; Gaz. vol. 221; p. 554.
- Honing implement for chisels, &c. C. J. Luther. No. 1,132,663; Mar. 23; Gaz. vol. 212; p. 1113.
- Honing-machine, Automatic. T. C. Sheehan. No. 1,166,012; Dec. 28; Gaz. vol. 221; p. 1269.
- Hood, Cooking-. C. F. Judson. No. 1,124,912; Jan. 12; Gaz. vol. 210; p. 645.
- Hood for motor-buses and other vehicles. H. Adler. No. 1,146,745; July 13; Gaz. vol. 216; p. 639.
- Hood or canopy, Folding. C. E. Duus. No. 1,165,233; Dec. 21; Gaz. vol. 221; p. 961.
- Hoof-clipper. R. L. Arthur. No. 1,136,991; Apr. 27; Gaz. vol. 213; p. 1149.
- Hoof-clipper. J. E. and R. L. Arthur. No. 1,145,459; July 6; Gaz. vol. 216; p. 170.
- Hoof-pad. A. Larsen. No. 1,135,029; Apr. 13; Gaz. vol. 213; p. 383.
- Hoof-pad. A. Larsen. No. 1,135,030; Apr. 13; Gaz. vol. 213; p. 383.
- Hoof-pad. A. Larsen. No. 1,135,031; Apr. 13; Gaz. vol. 213; p. 383.
- Hoof-paring knife, Horse-. M. Moses. No. 1,162,872; Dec. 7; Gaz. vol. 221; p. 49.
- Hoof-steadying device. H. F. Schreiber. No. 1,137,090; Apr. 27; Gaz. vol. 213; p. 1186.
- Hoof-trimmer, Motor-driven. G. F. Beckwith. No. 1,126,945; Feb. 2; Gaz. vol. 211; p. 98.
- Hoof-trimmer, Rotary. J. S. Woods. No. 1,125,623; Jan. 19; Gaz. vol. 210; p. 933.
- Hook. *See—*
Bait-hook.
Belt-hook.
Cable-hook.
Chain-hook.
Check-up hook.
Choker-hook.
Clothes-hook.
Coat-hook.
Draft-hook.
Drapery-hook.
Fish-hook.
Fishing-hook.
Garment-hook.
Grapppling-hook.
Grass-hook.
Harness-hook.
Hay-fork hook.
Hoisting-hook.
Key-hook.
Lace-hook.
Lacing-hook.
Loading-hook.
Locking-hook.
Logging-hook.
Logging butt-hook.
Overcheck-hook.
Pipe-hook.
Plate-hook.
Printer's hook.
Rack-hook.
Releasing-hook.
Safety-hook.
Safety choker-hook.
Self-restoring hook.
Shoe-hook.
Snap-hook.
Swivel-hook.
Timber-carrying hook.
Trace-hook.
Trip-hook.
Twin hook.
Whiffletree-hook.
- Hook. T. B. Hannon. No. 1,143,193; June 15; Gaz. vol. 215; p. 816.
- Hook. A. Hauer. No. 1,165,406; Dec. 28; Gaz. vol. 221; p. 1059.
- Hook. J. P. Heben Dahl. No. 1,137,616; Apr. 27; Gaz. vol. 213; p. 1373.
- Hook. J. J. Moran. No. 1,163,944; Dec. 14; Gaz. vol. 221; p. 469.
- Hook. M. H. and L. H. Robinson. No. 1,148,192; July 27; Gaz. vol. 216; p. 1195.
- Hook and eye. M. C. Avera. No. 1,154,558; Sept. 21; Gaz. vol. 218; p. 841.
- Hook and eye. C. B. Patterson. No. 1,123,791; Jan. 5; Gaz. vol. 210; p. 203.
- Hook and eye. W. E. Rice. No. 1,144,786; June 29; Gaz. vol. 215; p. 1420.
- Hook-and-eye fastening. N. M. Bailey. No. 1,138,439; May 4; Gaz. vol. 214; p. 253.
- Hook and eyelet setting machine. R. C. Simmons. No. 1,146,028; July 13; Gaz. vol. 216; p. 389.
- Hook and holder, Combined. B. H. McEwan. No. 1,126,238; Jan. 26; Gaz. vol. 210; p. 1189.
- Hook and saddle-seat, Combined. M. Lear and J. Sloop. No. 1,153,122; Sept. 7; Gaz. vol. 218; p. 267.
- Hook for bedsteads, doors, and the like. V. Urbanides. No. 1,126,133; Jan. 26; Gaz. vol. 210; p. 1150.
- Hook mechanism, Revolving-. F. Kulbawy. No. 1,152,740; Sept. 7; Gaz. vol. 218; p. 132.
- Hooks and eyes, Machine for attaching. E. J. Smith. No. 1,152,855; Sept. 7; Gaz. vol. 218; p. 175.
- Hooks. Device for securing doubly-bent. R. Reiter and R. Lorenz. No. 1,130,105; Mar. 2; Gaz. vol. 212; p. 91.
- Hoop. *See—*
Barrel-hoop.
Cheese-hoop.
Metallic hoop.
Rolling-hoop.
Toy hoop.
- Hoop expanding and flaring machine. E. F. Beugler. No. 1,153,480; Sept. 14; Gaz. vol. 218; p. 434.
- Hoop fastener, Barrel-. E. H. Kerns. No. 1,160,904; Nov. 16; Gaz. vol. 220; p. 965.
- Hoop for silos and like tanks. A. Rasmussen. No. 1,141,413; June 1; Gaz. vol. 215; p. 118.

Alphabetical list of inventions—Continued.

- Hoop forming and applying machine. Wire-. C. A. Lee. No. 1,137,336; Apr. 27; Gaz. vol. 213; p. 1277.
- Hoop-forming machine. Sheet-metal. E. W. Robinson. No. 1,158,294; Oct. 26; Gaz. vol. 219; p. 1156.
- Hoop-machine. H. P. Richardson. No. 1,134,012; Mar. 30; Gaz. vol. 212; p. 1628.
- Hoop-projecting device. T. Bartholomew. No. 1,163,609; Dec. 7; Gaz. vol. 221; p. 306.
- Hoops for barrels. Machine for making metallic. M. E. Lobley. No. 1,143,211; June 15; Gaz. vol. 215; p. 822.
- Hoops. Making sheet-metal. E. W. Robinson. No. 1,148,480; July 27; Gaz. vol. 216; p. 1295.
- Hooping machine. Cask-. F. Strohl. No. 1,155,767; Oct. 5; Gaz. vol. 219; p. 153.
- Hop-separator. E. C. Horst. No. 1,132,011; Mar. 16; Gaz. vol. 212; p. 826.
- Hop-separator. E. C. Horst. No. 1,136,423; Apr. 20; Gaz. vol. 213; p. 912.
- Hops. Preserving. H. Wennersten. No. 1,161,272; Nov. 23; Gaz. vol. 220; p. 1141.
- Hopper. H. T. Cronk. No. 1,129,826; Feb. 23; Gaz. vol. 211; p. 1227.
- Hopper. A. R. Havener. No. 1,130,898; Mar. 9; Gaz. vol. 212; p. 403.
- Hopper. E. P. Kendall. No. 1,164,195; Dec. 14; Gaz. vol. 221; p. 555.
- Hopper and feeding device. Automatic. J. S. Mardon and L. D. Fay. No. 1,137,346; Apr. 27; Gaz. vol. 213; p. 1281.
- Hopper. Closet-. H. P. Gonsouland. No. 1,139,178; May 11; Gaz. vol. 214; p. 552.
- Hopper. Cracker-. R. C. Praker. No. 1,125,884; Jan. 19; Gaz. vol. 210; p. 1025.
- Hopper. Cullet-. J. A. Bechtel. No. 1,164,977; Dec. 21; Gaz. vol. 221; p. 870.
- Hopper for feeding rivet-caps. A. R. Havener. No. 1,157,306; Oct. 19; Gaz. vol. 219; p. 748.
- Hopper. Movable loading-. A. P. Lee. No. 1,157,010; Oct. 19; Gaz. vol. 219; p. 643.
- Hopper-screen device. C. C. West. No. 1,129,322; Feb. 23; Gaz. vol. 211; p. 1054.
- Hopper. Sterilizing-. R. P. Barnstead. No. 1,126,937; Feb. 2; Gaz. vol. 211; p. 95.
- Horizon. Artificial. H. Anschütz-Kaempfe. No. 1,141,099; June 1; Gaz. vol. 215; p. 4.
- Horizontal-cylinder engine. S. Welch and J. W. Goyette. No. 1,133,518; Mar. 30; Gaz. vol. 212; p. 1457.
- Horn. P. C. Burns. No. 1,159,468; Nov. 9; Gaz. vol. 220; p. 402.
- Horn. S. Eisenberg. No. 1,153,207; Sept. 14; Gaz. vol. 218; p. 335.
- Horn. A. R. Welch. No. 1,138,267; May 4; Gaz. vol. 214; p. 190.
- Horn agitator. Mechanical-. E. Aufero. No. 1,164,250; Dec. 14; Gaz. vol. 221; p. 573.
- Horn and diaphragm therefor. Mechanical. M. R. Hutchison. No. 1,148,231; July 27; Gaz. vol. 216; p. 1207.
- Horn and lamp. Signal-. P. Walker. No. 1,134,360; Apr. 6; Gaz. vol. 213; p. 101.
- Horn. Automobile-. M. A. Aufero. No. 1,153,534; Sept. 14; Gaz. vol. 218; p. 454.
- Horn. Automobile-. H. A. Bretz. No. 1,157,292; Oct. 19; Gaz. vol. 219; p. 74.
- Horn. Automobile-. P. C. Burns. No. 1,159,467; Nov. 9; Gaz. vol. 220; p. 402.
- Horn. Automobile-. R. H. Manson. No. 1,143,845; June 22; Gaz. vol. 215; p. 1065.
- Horn. Automobile-. R. H. Manson. No. 1,164,836; Dec. 21; Gaz. vol. 221; p. 821.
- Horn. Automobile-. C. P. Scognamillo. No. 1,139,233; May 11; Gaz. vol. 214; p. 569.
- Horn. Cam-operated. M. R. Hutchinson. (Reissue.) No. 1,137,239; Dec. 28; Gaz. vol. 221; p. 1418.
- Horn. Combined electric and pneumatic. W. Sparks. No. 1,137,239; Apr. 27; Gaz. vol. 213; p. 1241.
- Horn. Diaphragm-. M. R. Hutchison. No. 1,123,137; Jan. 5; Gaz. vol. 210; p. 319.
- Horn. Diaphragm-. M. R. Hutchison. No. 1,131,635; Mar. 9; Gaz. vol. 212; p. 657.
- Horn. Diaphragm-. M. R. Hutchison. No. 1,145,839; July 6; Gaz. vol. 216; p. 303.
- Horn. Diaphragm-. M. R. Hutchison. No. 1,148,686; Aug. 3; Gaz. vol. 217; p. 73.
- Horn. Diaphragm-. M. R. Hutchison. No. 1,148,687; Aug. 3; Gaz. vol. 217; p. 73.
- Horn. Diaphragm-. D. A. McConnell. No. 1,160,902; Nov. 16; Gaz. vol. 220; p. 964.
- Horn. Electric. W. W. Dean. No. 1,153,039; Sept. 7; Gaz. vol. 218; p. 240.
- Horn. Electric. D. P. Perry. No. 1,130,676; Mar. 2; Gaz. vol. 212; p. 292.
- Horn for automobiles and motor-cycles. S. A. Beyland. No. 1,158,620; Nov. 2; Gaz. vol. 220; p. 74.
- Horn. Mechanical. O. C. Arlitz. (Reissue.) No. 1,390,9; May 4; Gaz. vol. 214; p. 312.
- Horn. Mechanical. O. C. Arlitz. No. 1,148,945; Aug. 3; Gaz. vol. 217; p. 163.
- Horn. Mechanical. G. C. Dean. No. 1,148,294; July 27; Gaz. vol. 216; p. 1230.
- Horn. Mechanical. M. R. Hutchison. No. 1,131,636; Mar. 9; Gaz. vol. 212; p. 657.
- Horn. Mechanically-actuated diaphragm-. M. R. Hutchison. No. 1,160,899; Nov. 16; Gaz. vol. 220; p. 962.
- Horn. Mechanically-actuated diaphragm-. M. R. Hutchison. No. 1,160,900; Nov. 16; Gaz. vol. 220; p. 963.
- Horn. Motor-cycle. E. H. Overholt. No. 1,128,816; Feb. 16; Gaz. vol. 211; p. 841.
- Horn or signal. Duplex-diaphragm. A. L. McMurtry. No. 1,148,916; Aug. 3; Gaz. vol. 217; p. 153.
- Horn or signaling device. M. R. Hutchison. No. 1,160,901; Nov. 16; Gaz. vol. 220; p. 963.
- Horn. Signal-. R. W. Dunkle. No. 1,140,968; May 25; Gaz. vol. 214; p. 1251.
- Horn. Signal-. M. F. and P. J. Fitzgerald. No. 1,125,083; Jan. 19; Gaz. vol. 210; p. 741.
- Horn. Signal-. S. Scognamillo. No. 1,140,290; May 18; Gaz. vol. 214; p. 976.
- Horn. Signaling-. A. A. Kent. No. 1,152,643; Sept. 7; Gaz. vol. 218; p. 97.
- Horns. Circuit-closer for motor-vehicle electric. W. P. Seng. No. 1,134,356; Apr. 6; Gaz. vol. 213; p. 100.
- Horological apparatus. G. Galetti. No. 1,160,274; Nov. 16; Gaz. vol. 220; p. 740.
- Horological motor. B. A. Adler. No. 1,144,748; June 29; Gaz. vol. 215; p. 1407.
- Horse-blanket. T. T. Hill. No. 1,159,495; Nov. 9; Gaz. vol. 220; p. 411.
- Horse-boot. A. Richardson. No. 1,163,952; Dec. 14; Gaz. vol. 221; p. 471.
- Horse-buck. Vaulting. J. B. Armitage. No. 1,128,832; Feb. 16; Gaz. vol. 211; p. 847.
- Horse-check. J. J. Dixon. No. 1,131,601; Mar. 9; Gaz. vol. 212; p. 644.
- Horse-checking device. A. G. Butler. No. 1,155,403; Oct. 5; Gaz. vol. 219; p. 28.
- Horse-cover. G. Deffebach and C. Howard. No. 1,164,480; Dec. 14; Gaz. vol. 221; p. 656.
- Horse-detacher. M. A. Juarez. No. 1,134,134; Apr. 6; Gaz. vol. 213; p. 18.
- Horse-holding device. R. G. Miller and E. C. Waterhouse. No. 1,123,568; Jan. 5; Gaz. vol. 210; p. 126.
- Horse-overshoe. F. T. Cole and A. C. Evans. No. 1,150,577; Aug. 17; Gaz. vol. 217; p. 911.
- Horse-overshoe. C. A. Muerrle. No. 1,146,200; July 13; Gaz. vol. 216; p. 449.
- Horse-overshoe. R. Whitaker. No. 1,142,765; June 8; Gaz. vol. 215; p. 624.
- Horse-overshoe. R. Whitaker. No. 1,142,766; June 8; Gaz. vol. 215; p. 625.
- Horse-overshoe. E. S. Williamson. No. 1,156,571; Oct. 12; Gaz. vol. 219; p. 460.
- Horse-protector. J. W. Nilsson. No. 1,159,076; Nov. 2; Gaz. vol. 220; p. 230.
- Horse-releaser. E. Kosta. No. 1,140,516; May 25; Gaz. vol. 214; p. 1093.
- Horse-releaser. L. E. Stroup. No. 1,166,275; Dec. 28; Gaz. vol. 221; p. 1367.
- Horse-releaser. H. E. Walker. No. 1,148,205; July 27; Gaz. vol. 216; p. 1199.
- Horse-starting machine. F. A. Jones. No. 1,147,405; July 20; Gaz. vol. 216; p. 891.
- Horse-whipping device. C. A. Noakes. No. 1,158,264; Oct. 26; Gaz. vol. 219; p. 1145.
- Horses. Device for stopping runaway. T. O. Preston. No. 1,160,318; Nov. 16; Gaz. vol. 220; p. 755.
- Horses to and from vehicles. Device for attaching and detaching. F. E. Griffith. No. 1,129,567; Feb. 23; Gaz. vol. 211; p. 1141.
- Horseshoe. J. Bird. No. 1,148,886; Aug. 3; Gaz. vol. 217; p. 142.
- Horseshoe. K. Bischoff. No. 1,144,344; June 29; Gaz. vol. 215; p. 1270.
- Horseshoe. B. B. Brenner. No. 1,135,657; Apr. 13; Gaz. vol. 213; p. 602.
- Horseshoe. B. Courlaender, Jr. No. 1,134,074; Mar. 30; Gaz. vol. 212; p. 1650.
- Horseshoe. G. Dany. No. 1,135,265; Apr. 13; Gaz. vol. 213; p. 462.
- Horseshoe. J. A. Dolan. No. 1,132,707; Mar. 23; Gaz. vol. 212; p. 1128.
- Horseshoe. J. A. Dolan. No. 1,152,715; Sept. 7; Gaz. vol. 218; p. 123.
- Horseshoe. J. A. Dolan. No. 1,154,178; Sept. 21; Gaz. vol. 218; p. 711.
- Horseshoe. O. Elmore. No. 1,152,497; Sept. 7; Gaz. vol. 218; p. 41.
- Horseshoe. J. O. Eyman. No. 1,147,796; July 27; Gaz. vol. 216; p. 1053.
- Horseshoe. I. D. Ferguson. No. 1,142,808; June 15; Gaz. vol. 215; p. 680.
- Horseshoe. D. I. Garretson. No. 1,149,359; Aug. 10; Gaz. vol. 217; p. 414.
- Horseshoe. J. Gillooly. No. 1,142,320; June 8; Gaz. vol. 215; p. 470.
- Horseshoe. J. E. Golden. No. 1,133,276; Mar. 30; Gaz. vol. 212; p. 1371.
- Horseshoe. M. J. Griffin. No. 1,124,422; Jan. 12; Gaz. vol. 210; p. 469.
- Horseshoe. W. A. Harrison. No. 1,125,522; Jan. 19; Gaz. vol. 210; p. 897.
- Horseshoe. F. A. Hoover. No. 1,129,679; Feb. 23; Gaz. vol. 211; p. 1178.

Alphabetical list of inventions—Continued.

- Horseshoe. G. E. Howe. No. 1,130,514; Mar. 2; Gaz. vol. 212; p. 236.
- Horseshoe. R. Jaffie. No. 1,129,683; Feb. 23; Gaz. vol. 211; p. 1179.
- Horseshoe. F. E. Kauffmann. No. 1,144,416; June 29; Gaz. vol. 215; p. 1293.
- Horseshoe. W. J. Kent. No. 1,125,556; Jan. 19; Gaz. vol. 210; p. 909.
- Horseshoe. W. J. Kent. No. 1,132,017; Mar. 16; Gaz. vol. 212; p. 829.
- Horseshoe. W. J. Kent. No. 1,151,797; Aug. 31; Gaz. vol. 217; p. 1431.
- Horseshoe. J. C. Kocontes. No. 1,145,247; July 6; Gaz. vol. 216; p. 96.
- Horseshoe. T. B. Mason. No. 1,162,632; Nov. 30; Gaz. vol. 220; p. 1656.
- Horseshoe. A. Möller. No. 1,165,437; Dec. 28; Gaz. vol. 221; p. 1069.
- Horseshoe. M. C. Nolan. No. 1,130,834; Mar. 9; Gaz. vol. 212; p. 380.
- Horseshoe. W. O'Neill. No. 1,131,858; Mar. 16; Gaz. vol. 212; p. 772.
- Horseshoe. W. Pejta, B. Grymowski, and A. Barszcz. No. 1,124,647; Jan. 12; Gaz. vol. 210; p. 552.
- Horseshoe. J. Pullar. No. 1,140,714; May 25; Gaz. vol. 214; p. 1159.
- Horseshoe. J. Pullar. No. 1,164,865; Dec. 21; Gaz. vol. 221; p. 831.
- Horseshoe. L. Schwoyer. No. 1,156,935; Oct. 19; Gaz. vol. 219; p. 616.
- Horseshoe. H. W. Seiber. No. 1,145,273; July 6; Gaz. vol. 216; p. 104.
- Horseshoe. G. C. Siebert. No. 1,149,223; Aug. 10; Gaz. vol. 217; p. 364.
- Horseshoe. M. Szarka. No. 1,123,953; Jan. 5; Gaz. vol. 210; p. 257.
- Horseshoe. S. Tadakuma. No. 1,150,554; Aug. 17; Gaz. vol. 217; p. 902.
- Horseshoe. J. Taras. No. 1,138,259; May 4; Gaz. vol. 214; p. 187.
- Horseshoe. E. M. Tuleski. No. 1,144,449; June 29; Gaz. vol. 215; p. 1305.
- Horseshoe. D. S. Wilt and V. O. Williams. No. 1,127,562; Feb. 9; Gaz. vol. 211; p. 354.
- Horseshoe, Adjustable. W. A. Harrison. No. 1,147,236; July 20; Gaz. vol. 216; p. 831.
- Horseshoe and calk. T. Shepherd. No. 1,157,052; Oct. 19; Gaz. vol. 219; p. 658.
- Horseshoe and detachable calk therefor. C. H. Gallup. No. 1,159,488; Nov. 9; Gaz. vol. 220; p. 408.
- Horseshoe antislipping device. J. Nemetz. No. 1,149,077; Aug. 3; Gaz. vol. 217; p. 209.
- Horseshoe attachment. J. A. Davis. No. 1,142,028; June 8; Gaz. vol. 215; p. 369.
- Horseshoe attachment. P. Dech. No. 1,154,978; Sept. 28; Gaz. vol. 218; p. 1013.
- Horseshoe attachment. L. J. Strob. No. 1,152,988; Sept. 7; Gaz. vol. 218; p. 223.
- Horseshoe attachment. M. F. Wilson. No. 1,141,596; June 1; Gaz. vol. 215; p. 182.
- Horseshoe attachment, Antislipping. J. A. Davis. No. 1,131,337; Mar. 9; Gaz. vol. 212; p. 553.
- Horseshoe-attachment-securing means. F. Mühlbach. No. 1,153,101; Sept. 7; Gaz. vol. 218; p. 261.
- Horseshoe-bars, Shaping-rolls for. L. T. Page. No. 1,138,145; May 4; Gaz. vol. 214; p. 150.
- Horseshoe-calk. F. Bouduban. No. 1,160,249; Nov. 16; Gaz. vol. 220; p. 732.
- Horseshoe-calk. E. C. Flanagan. No. 1,137,262; Apr. 27; Gaz. vol. 213; p. 1250.
- Horseshoe-calk. J. R. Greenlee. No. 1,155,231; Sept. 29; Gaz. vol. 218; p. 1099.
- Horseshoe-calk. R. L. Louderback. No. 1,152,526; Sept. 7; Gaz. vol. 218; p. 54.
- Horseshoe-calk. F. Macey. No. 1,154,330; Sept. 21; Gaz. vol. 218; p. 764.
- Horseshoe-calk. F. Schmidt. No. 1,156,713; Oct. 12; Gaz. vol. 219; p. 509.
- Horseshoe-calk. W. A. Woolsey. No. 1,148,207; July 27; Gaz. vol. 216; p. 1200.
- Horseshoe calk attachment. A. J. Davis, Jr. No. 1,131,998; Mar. 16; Gaz. vol. 212; p. 821.
- Horseshoe calk attachment. E. C. Tobin. No. 1,140,419; May 25; Gaz. vol. 214; p. 1057.
- Horseshoe calk attachment. J. R. Wood. No. 1,153,664; Sept. 14; Gaz. vol. 218; p. 498.
- Horseshoe-calk, Detachable. P. J. Ryan. No. 1,141,726; June 1; Gaz. vol. 215; p. 226.
- Horseshoe-calk, Removable. J. H. Wolf. No. 1,145,956; July 13; Gaz. vol. 216; p. 362.
- Horseshoe-calk, Safety. S. Beverley. No. 1,148,743; Aug. 3; Gaz. vol. 217; p. 94.
- Horseshoe-calks, &c., Manufacturing. R. Whitaker, Jr. No. 1,158,877; Nov. 2; Gaz. vol. 220; p. 164.
- Horseshoe, Cushion-tread. R. E. Fruin and T. Tobin. No. 1,137,855; May 4; Gaz. vol. 214; p. 46.
- Horseshoe, Emergency-. J. A. Barry. No. 1,131,815; Mar. 16; Gaz. vol. 212; p. 757.
- Horseshoe, Emergency-. A. Schwarz. No. 1,132,219; Mar. 16; Gaz. vol. 212; p. 902.
- Horseshoe, Expandable. P. Chovanecz. No. 1,147,927; July 27; Gaz. vol. 216; p. 1100.
- Horseshoe heel-calk. G. Robins. No. 1,140,851; May 25; Gaz. vol. 214; p. 1207.
- Horseshoe-nail. A. W. Knight. No. 1,131,248; Mar. 9; Gaz. vol. 212; p. 522.
- Horseshoe-nails, Nail-holder for. W. H. Krug. No. 1,127,646; Feb. 9; Gaz. vol. 211; p. 382.
- Horseshoe, Nailless. J. T. Leahy. No. 1,124,923; Jan. 12; Gaz. vol. 210; p. 648.
- Horseshoe, No-slip. M. S. Reigh. No. 1,165,286; Dec. 21; Gaz. vol. 221; p. 977.
- Horseshoe, Non-slipping. R. Stanicci. No. 1,129,244; Feb. 23; Gaz. vol. 211; p. 1027.
- Horseshoe, Quick-action. J. Kostka. No. 1,137,984; May 4; Gaz. vol. 214; p. 91.
- Horseshoe-pad. F. Kopf. No. 1,131,064; Mar. 9; Gaz. vol. 212; p. 459.
- Horseshoe-pad. J. H. Matchett. No. 1,163,938; Dec. 14; Gaz. vol. 221; p. 467.
- Horseshoe-remover. G. B. Heatherington. No. 1,127,760; Feb. 9; Gaz. vol. 211; p. 424.
- Horseshoe-roughing attachment. H. A. Webster. No. 1,159,558; Nov. 9; Gaz. vol. 220; p. 433.
- Horseshoe-spreader. A. Stark. No. 1,155,288; Sept. 28; Gaz. vol. 218; p. 1116.
- Horseshoe, Spring-. D. S. Wilt and V. O. Williams. No. 1,127,561; Feb. 9; Gaz. vol. 211; p. 354.
- Horseshoe toe-calk. W. Gordon. No. 1,151,354; Aug. 24; Gaz. vol. 217; p. 1232.
- Horseshoe toe-calk. G. Robins. No. 1,144,790; June 29; Gaz. vol. 215; p. 1422.
- Horseshoe, Vacuum-. J. M. Dove. No. 1,156,278; Oct. 12; Gaz. vol. 219; p. 354.
- Horseshoes and the like, Making. E. Boone. No. 1,163,314; Dec. 7; Gaz. vol. 221; p. 202.
- Horseshoes, Antislipping attachment for. D. W. Sylvester. No. 1,159,546; Nov. 9; Gaz. vol. 220; p. 428.
- Horseshoes, Ice-creeper attachment for. D. W. Thomas. No. 1,134,296; Apr. 6; Gaz. vol. 213; p. 78.
- Horseshoes, Machine for manufacture of. J. Zins. No. 1,136,990; Apr. 27; Gaz. vol. 213; p. 1149.
- Horseshoes, Machine for shaping prepared blanks in the manufacture of. R. J. Fry. No. 1,126,626; Jan. 26; Gaz. vol. 210; p. 1329.
- Horseshoes, Non-slipping attachment for. O. E. Brown. No. 1,160,834; Nov. 16; Gaz. vol. 220; p. 940.
- Horseshoer's jack. W. H. Holmes. No. 1,146,163; July 13; Gaz. vol. 216; p. 436.
- Hose. G. E. Beers. No. 1,151,652; Aug. 31; Gaz. vol. 217; p. 1381.
- Hose. R. J. Evans. No. 1,158,995; Nov. 2; Gaz. vol. 220; p. 204.
- Hose. J. J. Voorhees, Jr. No. 1,158,595; Nov. 2; Gaz. vol. 220; p. 66.
- Hose-attaching device. G. H. Webb. No. 1,145,532; July 6; Gaz. vol. 216; p. 195.
- Hose-billing press. J. Lamb. No. 1,128,156; Feb. 9; Gaz. vol. 211; p. 564.
- Hose-clamp. F. P. D'Arcy. No. 1,155,646; Oct. 5; Gaz. vol. 219; p. 111.
- Hose-clamp. F. C. Scott. No. 1,135,059; Apr. 13; Gaz. vol. 213; p. 393.
- Hose-clamp. C. A. Simmons. No. 1,166,158; Dec. 28; Gaz. vol. 221; p. 1324.
- Hose-clamp. F. Teeter. No. 1,133,195; Mar. 23; Gaz. vol. 212; p. 1307.
- Hose clamp and protector, Radiator-. E. B. Peterman and C. H. Reser. No. 1,146,813; July 20; Gaz. vol. 216; p. 633.
- Hose-connecting conduit, Valved. J. R. McCumber. No. 1,124,933; Jan. 12; Gaz. vol. 210; p. 652.
- Hose-connection cap. J. C. Meloon. No. 1,163,355; Dec. 7; Gaz. vol. 221; p. 218.
- Hose connection for street-sprinkling carts. G. Falk and E. L. Ginskey. No. 1,165,582; Dec. 28; Gaz. vol. 221; p. 1118.
- Hose-connection joint. A. M. Wright. No. 1,153,002; Sept. 7; Gaz. vol. 218; p. 228.
- Hose construction. R. Many. No. 1,149,664; Aug. 10; Gaz. vol. 217; p. 526.
- Hose-coupling. L. Babos. No. 1,136,502; Apr. 20; Gaz. vol. 213; p. 940.
- Hose-coupling. L. Babos. No. 1,151,851; Aug. 31; Gaz. vol. 217; p. 1451.
- Hose-coupling. D. C. Bailey. No. 1,143,020; June 15; Gaz. vol. 215; p. 754.
- Hose-coupling. E. Baldwin. No. 1,127,579; Feb. 9; Gaz. vol. 211; p. 360.
- Hose-coupling. R. W. Boje, Jr. No. 1,148,824; Aug. 3; Gaz. vol. 217; p. 122.
- Hose-coupling. T. A. Brown. No. 1,130,473; Mar. 2; Gaz. vol. 212; p. 222.
- Hose-coupling. L. H. Brubaker. No. 1,130,140; Mar. 2; Gaz. vol. 212; p. 103.
- Hose-coupling. W. A. Campbell. No. 1,130,475; Mar. 2; Gaz. vol. 212; p. 222.
- Hose-coupling. T. Carence and E. W. Sumpter. No. 1,149,727; Aug. 10; Gaz. vol. 217; p. 546.
- Hose-coupling. J. A. Cunningham. No. 1,153,895; Sept. 21; Gaz. vol. 218; p. 615.
- Hose-coupling. W. A. Dodge. No. 1,152,714; Sept. 7; Gaz. vol. 218; p. 123.

Alphabetical list of inventions—Continued.

- Hose-coupling. G. P. Frank. No. 1,163,995; Dec. 14; Gaz. vol. 221; p. 486.
- Hose-coupling. E. E. Gold. No. 1,145,364; July 6; Gaz. vol. 216; p. 135.
- Hose-coupling. H. H. Hewitt and C. H. Paeplow, Jr. No. 1,129,979; Mar. 2; Gaz. vol. 212; p. 49.
- Hose-coupling. J. Hume. No. 1,136,012; Apr. 20; Gaz. vol. 213; p. 767.
- Hose-coupling. C. H. Light. No. 1,154,259; Sept. 21; Gaz. vol. 218; p. 739.
- Hose-coupling. R. N. Martz. No. 1,128,474; Feb. 16; Gaz. vol. 211; p. 724.
- Hose-coupling. G. L. McClellan. No. 1,132,197; Mar. 16; Gaz. vol. 212; p. 894.
- Hose-coupling. G. L. McClellan. No. 1,148,913; Aug. 3; Gaz. vol. 217; p. 152.
- Hose-coupling. M. Meeks. No. 1,157,997; Oct. 26; Gaz. vol. 219; p. 1051.
- Hose-coupling. F. X. Müller. No. 1,160,944; Nov. 16; Gaz. vol. 220; p. 978.
- Hose-coupling. A. Relitz. No. 1,143,136; June 15; Gaz. vol. 215; p. 794.
- Hose-coupling. J. S. Sheafe. No. 1,137,913; May 4; Gaz. vol. 214; p. 66.
- Hose-coupling. J. Tapani. No. 1,146,822; July 20; Gaz. vol. 216; p. 686.
- Hose-coupling. E. H. Woelffel. No. 1,137,686; Apr. 27; Gaz. vol. 213; p. 1395.
- Hose coupling. Air. W. Engle. No. 1,161,641; Nov. 23; Gaz. vol. 220; p. 1270.
- Hose-coupling, Air-brake. W. E. Benn. No. 1,166,407; Dec. 28; Gaz. vol. 221; p. 1414.
- Hose coupling and guard. A. B. Hurley. No. 1,140,307; May 18; Gaz. vol. 214; p. 982.
- Hose-coupling for fire-hydrants. G. W. Killin. No. 1,166,223; Dec. 28; Gaz. vol. 221; p. 1348.
- Hose-couplings, Gasket for. E. E. Gold. No. 1,163,082; Dec. 7; Gaz. vol. 221; p. 121.
- Hose-couplings, Locking device for. E. H. Gold and F. F. Coggin. No. 1,159,927; Nov. 9; Gaz. vol. 220; p. 567.
- Hose-couplings, Tubular collapsible diaphragm for. E. W. Rietz. No. 1,165,449; Dec. 28; Gaz. vol. 221; p. 1074.
- Hose fabric. W. T. Cole. No. 1,139,467; May 11; Gaz. vol. 214; p. 652.
- Hose-forming mandrels, Machine for disconnecting the sections of. S. J. Sill. No. 1,123,409; Jan. 5; Gaz. vol. 210; p. 73.
- Hose-holder. W. H. Hetzel. No. 1,128,248; Feb. 9; Gaz. vol. 211; p. 595.
- Hose holder, Garden-. L. B. Leslie and M. E. Feuerbacher. No. 1,123,900; Jan. 5; Gaz. vol. 210; p. 239.
- Hose, Infant's. L. H. Taylor. No. 1,161,548; Nov. 23; Gaz. vol. 220; p. 1259.
- Hose lock, Eccentric steam-. E. S. Stotts. No. 1,130,855; Mar. 9; Gaz. vol. 212; p. 387.
- Hose, Metal-covered. H. W. Goodall. No. 1,136,329; Apr. 20; Gaz. vol. 213; p. 877.
- Hose-nozzle. S. K. Elliott and L. C. Pond. No. 1,140,259; May 18; Gaz. vol. 214; p. 966.
- Hose-nozzle. J. McBoyle. No. 1,152,652; Sept. 7; Gaz. vol. 218; p. 100.
- Hose-nozzle. C. G. Schmidt. No. 1,148,630; Aug. 3; Gaz. vol. 217; p. 53.
- Hose-nozzle support. G. Davis. No. 1,141,106; June 1; Gaz. vol. 215; p. 6.
- Hose-nozzle support. F. W. Finger. No. 1,140,145; May 18; Gaz. vol. 214; p. 928.
- Hose-nozzle support. J. A. Widner. No. 1,132,816; Mar. 23; Gaz. vol. 212; p. 1171.
- Hose or like conduit cleaning device. G. Schlemmer. No. 1,165,455; Dec. 28; Gaz. vol. 221; p. 1076.
- Hose-pipe coupling. H. R. Van Meter. No. 1,128,080; Feb. 9; Gaz. vol. 211; p. 538.
- Hose-rack. W. McClintock. No. 1,153,091; Sept. 7; Gaz. vol. 218; p. 257.
- Hose-rack. O. D. Mock. No. 1,155,262; Sept. 28; Gaz. vol. 218; p. 1109.
- Hose-rack. C. Nuhring. No. 1,156,706; Oct. 12; Gaz. vol. 219; p. 507.
- Hose-rack. J. H. Stillwaggon. No. 1,150,075; Aug. 17; Gaz. vol. 217; p. 732.
- Hose-reel. M. O. Frenier. No. 1,146,757; July 13; Gaz. vol. 216; p. 644.
- Hose-reel. A. Heim. No. 1,156,402; Oct. 12; Gaz. vol. 219; p. 400.
- Hose-reel. A. J. Kinch. No. 1,147,327; July 20; Gaz. vol. 216; p. 861.
- Hose-reel. C. D. McConnell. No. 1,151,890; Aug. 31; Gaz. vol. 217; p. 1464.
- Hose-reel. C. M. McCoy. No. 1,124,491; Jan. 12; Gaz. vol. 210; p. 495.
- Hose-reel. M. L. Munson. No. 1,165,277; Dec. 21; Gaz. vol. 221; p. 975.
- Hose-reel and valve, Combined. R. L. Landry. No. 1,132,590; Mar. 23; Gaz. vol. 212; p. 1085.
- Hose-reel, Self-draining. C. M. McCall. No. 1,130,313; Mar. 2; Gaz. vol. 212; p. 163.
- Hose-reinforcing machine. S. J. Sill. No. 1,149,224; Aug. 10; Gaz. vol. 217; p. 364.
- Hose repair-coupling, Air-. R. W. Ledbetter. No. 1,166,059; Dec. 28; Gaz. vol. 221; p. 1285.
- Hose-standard. W. A. McLaren. No. 1,137,995; May 4; Gaz. vol. 214; p. 95.
- Hose support, Garden-. G. Bernhard. No. 1,132,065; Mar. 16; Gaz. vol. 212; p. 846.
- Hose-supporter. B. S. Alsop. No. 1,154,556; Sept. 21; Gaz. vol. 218; p. 841.
- Hose-supporter. R. V. Blake. No. 1,161,107; Nov. 23; Gaz. vol. 220; p. 1080.
- Hose-supporter. G. H. Chandlee. No. 1,143,506; June 15; Gaz. vol. 215; p. 923.
- Hose-supporter. T. P. Ford. No. 1,144,832; June 29; Gaz. vol. 215; p. 1436.
- Hose-supporter. M. I. Foster. No. 1,124,121; Jan. 5; Gaz. vol. 210; p. 314.
- Hose-supporter. O. Lenk. No. 1,129,210; Feb. 23; Gaz. vol. 211; p. 1015.
- Hose-supporter. H. Range. No. 1,149,083; Aug. 3; Gaz. vol. 217; p. 211.
- Hose-supporter. E. Scudder and C. M. Corlew. No. 1,132,395; Mar. 16; Gaz. vol. 212; p. 966.
- Hose-supporter. T. P. Tuite. No. 1,152,672; Sept. 7; Gaz. vol. 218; p. 108.
- Hose-supporter clamp. C. B. Ford. No. 1,161,650; Nov. 23; Gaz. vol. 220; p. 1272.
- Hose-supporter tab end and making the same. C. J. White. No. 1,159,599; Nov. 9; Gaz. vol. 220; p. 434.
- Hose-swivel. J. Osborne. No. 1,157,715; Oct. 26; Gaz. vol. 219; p. 953.
- Hose-washer. W. R. Calvert. No. 1,137,382; Apr. 27; Gaz. vol. 213; p. 1293.
- Hose-washer. H. P. Herron. No. 1,157,536; Oct. 19; Gaz. vol. 219; p. 829.
- Hosiery. E. B. Cahn. No. 1,136,097; Apr. 20; Gaz. vol. 213; p. 794.
- Hosiery-frame, Straight. M. Michael. No. 1,138,391; May 4; Gaz. vol. 214; p. 237.
- Hosiery-machine attachment, Circular-. R. W. Scott. No. 1,152,849; Sept. 7; Gaz. vol. 218; p. 172.
- Hosiery, Machine for attaching runners to. B. P. and E. R. Hudson. No. 1,139,360; May 11; Gaz. vol. 214; p. 612.
- Hosiery, Manufacture of. E. A. Hirner. No. 1,154,116; Sept. 21; Gaz. vol. 218; p. 691.
- Hosiery pressing and drying apparatus. F. Pope. No. 1,162,100; Nov. 30; Gaz. vol. 220; p. 1477.
- Hospital apparatus. R. H. Schleicher. No. 1,138,582; May 4; Gaz. vol. 214; p. 299.
- Hospital appliance. A. C. Stevenson. No. 1,157,441; Oct. 19; Gaz. vol. 219; p. 797.
- Host-cutter. J. Jaksa. No. 1,139,766; May 18; Gaz. vol. 214; p. 792.
- Hot-air furnace. J. M. Blashfield. No. 1,125,449; Jan. 19; Gaz. vol. 210; p. 873.
- Hot-air furnace. J. E. Ercanbrack. No. 1,130,718; Mar. 9; Gaz. vol. 212; p. 340.
- Hot-air furnace. D. P. Kurtz. No. 1,155,825; Oct. 5; Gaz. vol. 219; p. 175.
- Hot-air furnace. H. M. Sawrie. No. 1,166,085; Dec. 28; Gaz. vol. 221; p. 1294.
- Hot-air furnace. E. C. Thompson. No. 1,148,726; Aug. 3; Gaz. vol. 217; p. 87.
- Hot-air furnace. R. H. Vondenbosch. No. 1,131,576; Mar. 9; Gaz. vol. 212; p. 634.
- Hot-air registers, Thermostatic means for operating. A. P. Broomell. No. 1,133,089; Mar. 23; Gaz. vol. 212; p. 1269.
- Hot-air stack of rectangular cross-section, Transversely-bracing and interlocking. A. G. Scherer. No. 1,160,202; Nov. 16; Gaz. vol. 220; p. 716.
- Hot-air stacks or conduits, Stack-head for. A. G. Scherer. No. 1,141,492; June 1; Gaz. vol. 215; p. 145.
- Hot-air stacks, Stack head or boot for. A. G. Scherer. No. 1,155,761; Oct. 5; Gaz. vol. 219; p. 151.
- Hot-blast heater. W. M. Kingsbury. No. 1,145,688; July 6; Gaz. vol. 216; p. 249.
- Hot-blast system. A. S. Hanson. No. 1,123,526; Jan. 5; Gaz. vol. 210; p. 112.
- Hot-mill furnace. O. B. Golding. No. 1,138,555; May 4; Gaz. vol. 214; p. 291.
- Hot-plate, Hygienic. G. Lake. No. 1,158,135; Oct. 26; Gaz. vol. 219; p. 1101.
- Hot-water heater. J. T. Bunting. No. 1,136,862; Apr. 20; Gaz. vol. 213; p. 1067.
- Hot-water heater. H. Telkemeyer. No. 1,144,798; June 29; Gaz. vol. 215; p. 1425.
- Hot-water heater and kitchen-range, Combined. G. J. Rymal. No. 1,128,053; Feb. 9; Gaz. vol. 211; p. 528.
- Hot-water heater for incubators. F. H. Dale. No. 1,160,497; Nov. 16; Gaz. vol. 220; p. 819.
- Hot-water heater, Instantaneous. J. O. Schulte. No. 1,139,379; May 11; Gaz. vol. 214; p. 619.
- Hot-water or steam and hot-air heater, Combined. E. C. Barth. No. 1,140,239; May 18; Gaz. vol. 214; p. 958.
- Hot-water-system regulator. W. L. Belknap and M. G. Cunningham. No. 1,140,565; May 25; Gaz. vol. 214; p. 1110.
- Hotbed. H. G. Cook. No. 1,160,853; Nov. 16; Gaz. vol. 220; p. 946.
- Hotel-lock. J. H. Shaw. No. 1,150,071; Aug. 17; Gaz. vol. 217; p. 731.

Alphabetical list of inventions—Continued.

- Hotels and the like, Automatic supervision of service in. H. W. Skinner. No. 1,131,278; Mar. 9; Gaz. vol. 212; p. 532.
- Hound, Adjustable. E. S. Levaugh. No. 1,145,073; July 6; Gaz. vol. 216; p. 36.
- House: *See*—
 Bath-house. Portable house.
 Knockdown metallic house. Poultry-house.
 Nesting-house. Smoke-house.
- Household articles, Holder for. A. L. Hulstedt. No. 1,136,011; Apr. 20; Gaz. vol. 213; p. 766.
- Household-press. P. Smagel. No. 1,161,540; Nov. 23; Gaz. vol. 220; p. 1236.
- Household utensil or the like. L. C. Burnet. No. 1,147,001; July 20; Gaz. vol. 216; p. 750.
- Hub and cap, Vehicle-. J. M. Lansden, Jr. No. 1,136,019; Apr. 20; Gaz. vol. 213; p. 769.
- Hub and spokes for metal wheels. G. Strub. No. 1,127,821; Feb. 9; Gaz. vol. 211; p. 447.
- Hub, Ball-bearing wheel-. R. G. Ledig. No. 1,164,292; Dec. 14; Gaz. vol. 221; p. 589.
- Hub cap, Wheel-. M. Nesine. No. 1,147,746; July 27; Gaz. vol. 216; p. 1036.
- Hub construction. J. P. Lavigne. No. 1,160,726; Nov. 16; Gaz. vol. 220; p. 903.
- Hub construction for four-wheel-drive vehicles. E. C. Helmke. No. 1,124,433; Jan. 12; Gaz. vol. 210; p. 474.
- Hub, Detachable-wheel. J. V. Pugh. No. 1,129,725; Feb. 23; Gaz. vol. 211; p. 1192.
- Hub, Detachable-wheel. J. V. Pugh. No. 1,129,726; Feb. 23; Gaz. vol. 211; p. 1192.
- Hub-fastener. J. P. Pedersen. No. 1,134,003; Mar. 30; Gaz. vol. 212; p. 1626.
- Hub for demountable wheels. T. I. Duffy. No. 1,123,713; Jan. 5; Gaz. vol. 210; p. 175.
- Hub for furniture, Adjustable rotary. O. R. Hasty. No. 1,160,108; Nov. 9; Gaz. vol. 220; p. 629.
- Hub for removable wheels. A. R. Behnke. No. 1,134,367; Apr. 6; Gaz. vol. 213; p. 104.
- Hub for wheels, Spring-. G. H. Thomas. No. 1,139,600; May 18; Gaz. vol. 214; p. 733.
- Hub for wire wheels. B. R. Ayers. No. 1,151,646; Aug. 31; Gaz. vol. 217; p. 1379.
- Hub-liner. A. M. Gimpel and P. Yeager. No. 1,146,790; July 20; Gaz. vol. 216; p. 675.
- Hub-locking device. H. A. House, Jr. No. 1,166,130; Dec. 28; Gaz. vol. 221; p. 1312.
- Hub, Lubricating-. J. C. Ross and M. A. Prugh. No. 1,161,977; Nov. 30; Gaz. vol. 220; p. 1433.
- Hub-odometer. C. H. Veeder. No. 1,125,607; Jan. 19; Gaz. vol. 210; p. 927.
- Hub-plates, Packing device for. A. J. Sams. No. 1,143,142; June 15; Gaz. vol. 215; p. 796.
- Hub, Resilient. R. B. Longenecker. No. 1,152,956; Sept. 7; Gaz. vol. 218; p. 212.
- Hub-retainer for wheels. A. Sturt. No. 1,146,370; July 13; Gaz. vol. 216; p. 508.
- Hub, Vehicle-. O. and J. L. O. King and T. H. Fox. No. 1,157,550; Oct. 19; Gaz. vol. 219; p. 833.
- Hub, Vehicle wheel-. A. W. Livingston. No. 1,133,158; Mar. 23; Gaz. vol. 212; p. 1294.
- Hub, Wheel-. W. P. Hopwood and P. H. Kroh. No. 1,139,867; May 18; Gaz. vol. 214; p. 829.
- Hub, Wheel-. S. R. Lalkáká. No. 1,155,493; Oct. 5; Gaz. vol. 219; p. 59.
- Hub, Wheel-. E. Nall and W. C. Tyler. No. 1,130,425; Mar. 2; Gaz. vol. 212; p. 203.
- Hubs and the like, Dust-cap for wheels. C. W. Svenson. No. 1,135,960; Apr. 13; Gaz. vol. 213; p. 707.
- Hubs, Forming wheel-. J. Kelsey. No. 1,129,989; Mar. 2; Gaz. vol. 212; p. 53.
- Hull-burner. W. V. Sneed. No. 1,141,214; June 1; Gaz. vol. 215; p. 44.
- Huller: *See*—
 Clover-huller. Peanut-huller.
 Cotton-huller. Wheat-huller.
- Humidifier. W. Boss. No. 1,136,208; Apr. 20; Gaz. vol. 213; p. 834.
- Humidifier. E. J. Braun. No. 1,137,570; Apr. 27; Gaz. vol. 213; p. 1357.
- Humidifier. F. B. Comins. No. 1,139,640; May 18; Gaz. vol. 214; p. 748.
- Humidifier. P. A. Fair. No. 1,135,445; Apr. 13; Gaz. vol. 213; p. 526.
- Humidifier. S. W. Gillin. No. 1,163,402; Dec. 7; Gaz. vol. 221; p. 234.
- Humidifier. W. S. Hadaway, Jr. No. 1,154,113; Sept. 21; Gaz. vol. 218; p. 690.
- Humidifier. H. B. McClure. No. 1,131,784; Mar. 16; Gaz. vol. 212; p. 744.
- Humidifier. F. C. Phelps. No. 1,158,553; Nov. 2; Gaz. vol. 220; p. 51.
- Humidifier. J. Whiting. No. 1,159,454; Nov. 9; Gaz. vol. 220; p. 397.
- Humidifier and air-cleaner. G. B. Griffin. No. 1,130,267; Mar. 2; Gaz. vol. 212; p. 148.
- Humidifying and humidity-regulating apparatus. B. L. Cushing and E. W. Errick. No. 1,160,695; Nov. 16; Gaz. vol. 220; p. 893.
- Humidifying apparatus. H. Y. Norwood and D. G. Stuart. No. 1,151,814; Aug. 31; Gaz. vol. 217; p. 1438.
- Humidifying device. A. R. Bliss. No. 1,155,701; Oct. 5; Gaz. vol. 219; p. 131.
- Humidifying, heating, and ventilating system. W. B. Hodce. No. 1,147,244; July 20; Gaz. vol. 216; p. 834.
- Humidity and temperature, Regulating. W. H. Carrier. No. 1,129,549; Feb. 23; Gaz. vol. 211; p. 1135.
- Humidity, Apparatus for automatically controlling relative. F. D. Windell. No. 1,153,987; Sept. 21; Gaz. vol. 218; p. 645.
- Humidity-controlling apparatus. J. M. Larson. No. 1,153,234; Sept. 14; Gaz. vol. 218; p. 344.
- Humidity-regulating apparatus, Safety means for. W. H. Carrier. No. 1,138,084; May 4; Gaz. vol. 214; p. 128.
- Humidor. W. A. French. No. 1,163,400; Dec. 7; Gaz. vol. 221; p. 233.
- Humidor. W. E. Schimmel. No. 1,145,218; July 6; Gaz. vol. 216; p. 84.
- Humidor. J. Taylor, Jr. No. 1,144,508; June 29; Gaz. vol. 215; p. 1324.
- Husking device. S. Hankins. No. 1,156,478; Oct. 12; Gaz. vol. 219; p. 427.
- Husking device. G. and F. A. Tams. No. 1,146,038; July 13; Gaz. vol. 216; p. 392.
- Hydraeroplanes, Water-brake attachment for. H. C. Mustin. No. 1,160,525; Nov. 16; Gaz. vol. 220; p. 828.
- Hydrant. O. E. Duey and T. J. Wells. No. 1,164,077; Dec. 14; Gaz. vol. 221; p. 516.
- Hydrant. G. N. Frazer. No. 1,146,617; July 13; Gaz. vol. 216; p. 596.
- Hydrant. A. Hollowell. No. 1,154,582; Sept. 21; Gaz. vol. 218; p. 850.
- Hydrant-repairing tool. T. L. Greif and B. N. Lusby. No. 1,163,232; Dec. 7; Gaz. vol. 221; p. 174.
- Hydrant-thawing-out device. J. De Size. No. 1,145,753; July 6; Gaz. vol. 216; p. 272.
- Hydrated aluminosilicates or artificial zeolites, Production of. R. Gans. No. 1,131,503; Mar. 9; Gaz. vol. 212; p. 611.
- Hydrating, pulping, or reducing material in a wet or semiliquid state, Apparatus for. H. Jackson. No. 1,133,968; Mar. 30; Gaz. vol. 212; p. 1615.
- Hydraulic apparatus. H. H. Finn. No. 1,132,712; Mar. 23; Gaz. vol. 212; p. 1130.
- Hydraulic apparatus. H. S. Hale-Shaw and F. Leigh-Martineau. No. 1,137,208; Apr. 27; Gaz. vol. 213; p. 1229.
- Hydraulic brake. S. H. Keefer. No. 1,146,577; July 13; Gaz. vol. 216; p. 583.
- Hydraulic controlling mechanism. R. Janney. No. 1,131,704; Mar. 16; Gaz. vol. 212; p. 714.
- Hydraulic coupling. J. C. Hansen-Ellehammer. No. 1,127,758; Feb. 9; Gaz. vol. 211; p. 423.
- Hydraulic elevator. J. S. Hoyt. No. 1,136,131; Apr. 20; Gaz. vol. 213; p. 806.
- Hydraulic elevator. K. E. O. Jansson. No. 1,136,140; Apr. 20; Gaz. vol. 213; p. 810.
- Hydraulic elevator. K. E. O. Jansson. No. 1,159,038; Nov. 2; Gaz. vol. 220; p. 217.
- Hydraulic elevator. C. R. Pratt. No. 1,156,433; Oct. 12; Gaz. vol. 219; p. 411.
- Hydraulic jack. W. Messenger. No. 1,152,829; Sept. 7; Gaz. vol. 218; p. 165.
- Hydraulic jack. J. W. Nelson. No. 1,149,279; Aug. 10; Gaz. vol. 217; p. 385.
- Hydraulic jack. J. W. Nelson and W. H. Mathers. No. 1,136,830; Apr. 20; Gaz. vol. 213; p. 1057.
- Hydraulic lifting mechanism. F. Koenigkramer. No. 1,164,290; Dec. 14; Gaz. vol. 221; p. 588.
- Hydraulic motor. G. Holter. No. 1,160,510; Nov. 16; Gaz. vol. 220; p. 823.
- Hydraulic motor. F. J. Osterholtz. No. 1,139,995; May 18; Gaz. vol. 214; p. 874.
- Hydraulic motor and vacuum-nozzle, Combined. N. E. Wilmes. No. 1,128,207; Feb. 9; Gaz. vol. 211; p. 581.
- Hydraulic press. T. E. Holmes. No. 1,149,518; Aug. 10; Gaz. vol. 217; p. 470.
- Hydraulic press, Automatic. H. A. Herr. No. 1,124,738; Jan. 12; Gaz. vol. 210; p. 583.
- Hydraulic press for making hats. W. H. Robson. No. 1,149,784; Aug. 10; Gaz. vol. 217; p. 567.
- Hydraulic separator. F. K. Hoover and A. J. Mason. No. 1,128,875; Feb. 16; Gaz. vol. 211; p. 861.
- Hydraulic system. J. A. Tilden. No. 1,144,446; June 29; Gaz. vol. 215; p. 1304.
- Hydraulic transmission mechanism. C. C. Rich. No. 1,156,816; Oct. 12; Gaz. vol. 219; p. 543.
- Hydraulic transmission mechanism. C. C. Rich. No. 1,156,817; Oct. 12; Gaz. vol. 219; p. 543.
- Hydraulic transmission mechanism. C. C. Rich. No. 1,156,818; Oct. 12; Gaz. vol. 219; p. 544.
- Hydraulic transmission, Variable-speed. J. Robson. No. 1,143,727; June 22; Gaz. vol. 215; p. 1024.
- Hydro-electric storing and distributing system. F. C. Perkins. No. 1,145,508; July 6; Gaz. vol. 216; p. 186.
- Hydro-extractor or like centrifugal machine. T. K. Irwin. No. 1,145,900; July 13; Gaz. vol. 216; p. 342.
- Hydroaeroplane. R. C. Edwards. No. 1,156,218; Oct. 12; Gaz. vol. 219; p. 335.
- Hydroaeroplane. E. J. Elsas. No. 1,127,211; Feb. 2; Gaz. vol. 211; p. 193.

Alphabetical list of inventions—Continued.

- Hydroaeroplane. W. S. Hart. No. 1,166,367; Dec. 28; Gaz. vol. 221; p. 1399.
- Hydroaeroplane. W. H. Nosworthy and S. J. Prescott. No. 1,152,654; Sept. 7; Gaz. vol. 218; p. 101.
- Hydroaeroplane. T. Sloper. No. 1,148,340; July 27; Gaz. vol. 216; p. 1248.
- Hydroaeroplane-float and hydroplane. T. Sloper. No. 1,152,058; Aug. 31; Gaz. vol. 217; p. 1522.
- Hydroaeroplane, hydroplane, and the like. T. Sloper. No. 1,161,896; Nov. 30; Gaz. vol. 220; p. 1405.
- Hydroaeroplanes, Float for. O. Ursinus. No. 1,133,342; Mar. 30; Gaz. vol. 212; p. 1395.
- Hydroaeroplanes to promote safety in air navigation, Detaching apparatus for use on. W. H. Seabrook, Jr. No. 1,134,492; Apr. 6; Gaz. vol. 213; p. 149.
- Hydrocarbon-burner. F. A. Allinger. No. 1,158,151; Nov. 2; Gaz. vol. 220; p. 256.
- Hydrocarbon-burner. G. F. Beach. No. 1,161,183; Nov. 23; Gaz. vol. 220; p. 1109.
- Hydrocarbon-burner. C. H. Boeck. No. 1,151,560; Aug. 31; Gaz. vol. 217; p. 1349.
- Hydrocarbon-burner. J. R. Donnelly. No. 1,156,470; Oct. 12; Gaz. vol. 219; p. 424.
- Hydrocarbon-burner. L. J. Gouguet and J. Montis. No. 1,158,043; Oct. 26; Gaz. vol. 219; p. 1068.
- Hydrocarbon-burner. H. H. Hastings. No. 1,160,886; Nov. 16; Gaz. vol. 220; p. 957.
- Hydrocarbon-burner. W. E. Huenefeld. No. 1,153,084; Sept. 7; Gaz. vol. 218; p. 254.
- Hydrocarbon-burner. R. C. Kirkwood. No. 1,144,851; June 29; Gaz. vol. 215; p. 1443.
- Hydrocarbon-burner. E. Meltzer. No. 1,152,746; Sept. 7; Gaz. vol. 218; p. 134.
- Hydrocarbon-burner. F. J. Nice. No. 1,149,673; Aug. 10; Gaz. vol. 217; p. 529.
- Hydrocarbon-burner. J. W. Porter. No. 1,159,266; Nov. 2; Gaz. vol. 220; p. 298.
- Hydrocarbon-burner. M. Rocksted. No. 1,123,382; Jan. 5; Gaz. vol. 210; p. 64.
- Hydrocarbon-burner. W. B. Rogers. No. 1,160,765; Nov. 16; Gaz. vol. 220; p. 916.
- Hydrocarbon-burner. W. Scrimgeour. No. 1,128,908; Feb. 16; Gaz. vol. 211; p. 874.
- Hydrocarbon-burner. J. E. Sheaffer. No. 1,140,621; May 25; Gaz. vol. 214; p. 1130.
- Hydrocarbon-burner. A. V. Smith. No. 1,143,792; June 22; Gaz. vol. 215; p. 1045.
- Hydrocarbon-burner. O. W. Smith. No. 1,134,239; Apr. 6; Gaz. vol. 213; p. 57.
- Hydrocarbon-burner. W. O. Smith. No. 1,134,240; Apr. 6; Gaz. vol. 213; p. 57.
- Hydrocarbon-burner. J. W. Stirton. No. 1,161,546; Nov. 23; Gaz. vol. 220; p. 1238.
- Hydrocarbon-burner. B. A. Thomas. No. 1,143,150; June 15; Gaz. vol. 215; p. 799.
- Hydrocarbon-burner. W. H. Tranter. No. 1,136,848; Apr. 20; Gaz. vol. 213; p. 1062.
- Hydrocarbon-burner. C. H. Von Hohenstein. No. 1,152,674; Sept. 7; Gaz. vol. 218; p. 109.
- Hydrocarbon-burner. H. C. Wade. No. 1,125,777; Jan. 19; Gaz. vol. 210; p. 990.
- Hydrocarbon burner, Fluid. C. F. and I. C. Williams. No. 1,146,677; July 13; Gaz. vol. 216; p. 616.
- Hydrocarbon burner, Heavy. A. G. Sherman. No. 1,149,300; Aug. 10; Gaz. vol. 217; p. 393.
- Hydrocarbon burner, Liquid. W. F. Drew. No. 1,130,073; Mar. 2; Gaz. vol. 212; p. 80.
- Hydrocarbon burner, Liquid. J. W. Stevens. No. 1,127,941; Feb. 9; Gaz. vol. 211; p. 490.
- Hydrocarbon-engine. J. M. Allen. No. 1,137,446; Apr. 27; Gaz. vol. 213; p. 1316.
- Hydrocarbon-engine. G. Nygaard. No. 1,133,740; Mar. 30; Gaz. vol. 212; p. 1538.
- Hydrocarbon-engine. T. O. Pattin. No. 1,157,728; Oct. 26; Gaz. vol. 219; p. 959.
- Hydrocarbon-engine. W. E. B. Powell. No. 1,162,710; Nov. 30; Gaz. vol. 220; p. 1683.
- Hydrocarbon fuels, Vaporizing apparatus for. J. A. Doble. No. 1,151,090; Aug. 24; Gaz. vol. 217; p. 1142.
- Hydrocarbon-furnace. J. S. Thompson. No. 1,148,468; July 27; Gaz. vol. 216; p. 1291.
- Hydrocarbon generator, Liquid. S. F. Pierce. No. 1,135,136; Apr. 13; Gaz. vol. 213; p. 420.
- Hydrocarbon-motor. G. B. Collier. No. 1,130,148; Mar. 2; Gaz. vol. 212; p. 106.
- Hydrocarbon-motor. J. H. Hunt. No. 1,148,843; Aug. 3; Gaz. vol. 217; p. 129.
- Hydrocarbon-motor. A. H. Knight. No. 1,131,936; Mar. 16; Gaz. vol. 212; p. 799.
- Hydrocarbon-motor. A. Loomis. No. 1,163,935; Dec. 14; Gaz. vol. 221; p. 466.
- Hydrocarbon-motor. E. F. Roberts. No. 1,138,892; May 11; Gaz. vol. 214; p. 450.
- Hydrocarbon-motor. M. Tibbetts. No. 1,138,908; May 11; Gaz. vol. 214; p. 455.
- Hydrocarbon-motor. M. Tibbetts. No. 1,141,288; June 1; Gaz. vol. 215; p. 71.
- Hydrocarbon-motor. F. H. Trego. No. 1,132,048; Mar. 16; Gaz. vol. 212; p. 840.
- Hydrocarbon-motor. S. D. Waldon. No. 1,143,001; June 15; Gaz. vol. 215; p. 747.
- Hydrocarbon-motor. S. D. Waldon. No. 1,144,514; June 29; Gaz. vol. 215; p. 1327.
- Hydrocarbon-motor. E. E. Winkley and F. V. Hart. No. 1,128,208; Feb. 9; Gaz. vol. 211; p. 581.
- Hydrocarbon products from gas, Apparatus for recovering. A. E. Roberts. No. 1,150,454; Aug. 17; Gaz. vol. 217; p. 866.
- Hydrocarbon-refining apparatus. E. D. Kendall. No. 1,154,517; Sept. 21; Gaz. vol. 218; p. 827.
- Hydrocarbon-vapor generator and burning device. A. Kaufman. No. 1,151,599; Aug. 31; Gaz. vol. 217; p. 1363.
- Hydrocarbons and intermediate compounds, Manufacture of unsaturated. F. E. Matthews and H. G. W. Bliss. No. 1,144,558; June 29; Gaz. vol. 215; p. 1341.
- Hydrocarbons, Apparatus for obtaining liquid. G. C. Maag. No. 1,142,525; June 8; Gaz. vol. 215; p. 544.
- Hydrocarbons, Apparatus for obtaining liquid. E. Schill. No. 1,142,275; June 8; Gaz. vol. 215; p. 455.
- Hydrocarbons, Atomizing and burning. C. V. Stuart. No. 1,164,139; Dec. 14; Gaz. vol. 221; p. 538.
- Hydrocarbons including toluol, Chlorinating aromatic. C. Ellis. No. 1,146,142; July 13; Gaz. vol. 216; p. 428.
- Hydrocarbons or the like, Manufacture of light. P. Sabatier and A. Mailhe. No. 1,124,333; Jan. 12; Gaz. vol. 210; p. 436.
- Hydrocarbons, Refining. E. D. Kendall. No. 1,154,516; Sept. 21; Gaz. vol. 218; p. 826.
- Hydrogen and nitrogen, Manufacturing mixed. G. P. Scholl. No. 1,123,394; Jan. 5; Gaz. vol. 210; p. 68.
- Hydrogen from iron ore and steam, Reducing and oxidizing apparatus for generating. H. Dicke. No. 1,129,559; Feb. 23; Gaz. vol. 211; p. 1139.
- Hydrogen, Making. A. Messerschmitt. No. 1,152,196; Aug. 31; Gaz. vol. 217; p. 1568.
- Hydrogen, Making. R. P. Pictet. No. 1,134,416; Apr. 6; Gaz. vol. 213; p. 120.
- Hydrogen, Manufacture of. G. Claude. No. 1,135,355; Apr. 13; Gaz. vol. 213; p. 494.
- Hydrogen peroxid and making the same, Stable compound containing. F. W. Weber. No. 1,153,985; Sept. 21; Gaz. vol. 218; p. 645.
- Hydrogen peroxid, Apparatus for the continuous production by synthesis of. W. Weber. No. 1,144,271; June 22; Gaz. vol. 215; p. 1215.
- Hydrogen-peroxid solution. J. A. Trimble. No. 1,128,637; Feb. 6; Gaz. vol. 211; p. 779.
- Hydrogen-peroxid solutions, Preventing decomposition of. A. Farago. No. 1,134,323; Apr. 6; Gaz. vol. 213; p. 88.
- Hydrogen, Process and apparatus for making. A. Messerschmitt. No. 1,152,197; Aug. 31; Gaz. vol. 217; p. 1569.
- Hydrogen, Producing. C. Bosch and W. Wild. No. 1,157,669; Oct. 26; Gaz. vol. 219; p. 938.
- Hydrogen, Producing. A. Mittasch and C. Schneider. No. 1,128,804; Feb. 16; Gaz. vol. 211; p. 836.
- Hydrogen, Producing. K. Schaefer. No. 1,144,730; June 29; Gaz. vol. 215; p. 1401.
- Hydrogen, Purification of. C. Bosch and W. Wild. No. 1,133,087; Mar. 23; Gaz. vol. 212; p. 1268.
- Hydrogen to fatty acids, fatty esters, and other unsaturated compounds, Adding. C. Ellis. No. 1,154,495; Sept. 21; Gaz. vol. 218; p. 819.
- Hydrogen under pressure, Apparatus for effecting reactions of. M. Pier. No. 1,159,865; Nov. 9; Gaz. vol. 220; p. 545.
- Hydrogenating process and apparatus. K. P. McElroy. No. 1,157,993; Oct. 26; Gaz. vol. 219; p. 1050.
- Hydrogenating unsaturated organic material. C. Ellis. No. 1,138,201; May 4; Gaz. vol. 214; p. 168.
- Hydrogenation of unsaturated substances. R. Lessing. No. 1,162,623; Nov. 30; Gaz. vol. 220; p. 1654.
- Hydrometer. C. C. Belcher. No. 1,145,879; July 13; Gaz. vol. 216; p. 336.
- Hydroplane. L. Bazaine. No. 1,125,794; Jan. 19; Gaz. vol. 210; p. 996.
- Hydroplane and aeroplane. P. Grosser. No. 1,136,420; Apr. 20; Gaz. vol. 213; p. 911.
- Hydrostatic recorder. C. M. Allen. No. 1,137,945; May 4; Gaz. vol. 214; p. 77.
- Hydroxids of metals by means of ammonia, Process and apparatus for producing. H. A. Frasch. No. 1,135,785; Apr. 13; Gaz. vol. 213; p. 644.
- Hygrometer. W. H. Bristol. No. 1,162,446; Nov. 30; Gaz. vol. 220; p. 1596.
- Hygrostat or thermostatic device. W. H. Carrier. No. 1,138,082; May 4; Gaz. vol. 214; p. 127.
- Hypodermic heater, Sanitary. W. Schlereth. No. 1,163,864; Dec. 14; Gaz. vol. 221; p. 442.
- Hypodermic-needle mount. R. F. Hopper. No. 1,139,975; May 18; Gaz. vol. 214; p. 867.
- Ice, Aerating water in making. W. B. Kirkpatrick. No. 1,161,219; Nov. 28; Gaz. vol. 220; p. 1122.
- Ice-bag cap. M. Finkelstein. No. 1,127,221; Feb. 2; Gaz. vol. 211; p. 196.
- Ice-box. G. H. Langebennig. No. 1,125,697; Jan. 19; Gaz. vol. 210; p. 961.
- Ice-breaking machine. A. G. Krockner. No. 1,133,863; Mar. 30; Gaz. vol. 212; p. 1583.
- Ice-cake-splitting apparatus. E. C. Porter. No. 1,128,507; Feb. 16; Gaz. vol. 211; p. 734.

Alphabetical list of inventions—Continued.

- Ice-can. J. H. Lamb. No. 1,157,943; Oct. 26; Gaz. vol. 219; p. 1033.
- Ice-can. W. T. McCue. No. 1,128,162; Feb. 9; Gaz. vol. 211; p. 566.
- Ice-can. W. T. McCue. No. 1,155,751; Oct. 5; Gaz. vol. 219; p. 147.
- Ice-can. F. J. Peckham. No. 1,161,409; Nov. 23; Gaz. vol. 220; p. 1191.
- Ice-cans, Water-agitator for. J. C. Taby, J. H. Straub, and D. M. Maurer. No. 1,137,551; Apr. 27; Gaz. vol. 213; p. 1351.
- Ice-cream and analogous substances, Apparatus for making. J. M. Long. No. 1,163,426; Dec. 7; Gaz. vol. 221; p. 242.
- Ice-cream box, Collapsible. B. and C. Smyle. No. 1,141,661; June 1; Gaz. vol. 215; p. 204.
- Ice-cream-carton holder and filler. H. E. Pickard. No. 1,159,990; Nov. 9; Gaz. vol. 220; p. 589.
- Ice-cream cone. H. T. Allen. No. 1,153,744; Sept. 14; Gaz. vol. 218; p. 527.
- Ice-cream-cone bag. C. W. Whalen. No. 1,158,349; Oct. 26; Gaz. vol. 219; p. 1175.
- Ice-cream-cone carrier. D. R. Smith. No. 1,140,540; May 25; Gaz. vol. 214; p. 1102.
- Ice-cream-cone disher. T. J. Brandt. No. 1,138,533; May 4; Gaz. vol. 214; p. 283.
- Ice-cream-cone filler. W. A. Robinson. No. 1,153,172; Sept. 7; Gaz. vol. 218; p. 284.
- Ice-cream-cone machine. F. A. Bruckman. No. 1,138,450; May 4; Gaz. vol. 214; p. 257.
- Ice-cream-cone tray. T. L. Whittaker. No. 1,165,304; Dec. 21; Gaz. vol. 221; p. 983.
- Ice-cream cones, Machine for making. K. Wessel. No. 1,148,642; Aug. 3; Gaz. vol. 217; p. 57.
- Ice-cream container. C. Ottosen and H. R. Wright. No. 1,138,144; May 4; Gaz. vol. 214; p. 150.
- Ice-cream dipper. E. Walker. No. 1,138,703; May 11; Gaz. vol. 214; p. 381.
- Ice-cream dipper. E. Walker. No. 1,138,704; May 11; Gaz. vol. 214; p. 381.
- Ice-cream disher. E. Walker. No. 1,138,705; May 11; Gaz. vol. 214; p. 382.
- Ice-cream disher. E. Walker. No. 1,138,706; May 11; Gaz. vol. 214; p. 382.
- Ice-cream disher. E. Walker. No. 1,162,116; Nov. 30; Gaz. vol. 220; p. 1483.
- Ice-cream freezer. C. H. Eddy. No. 1,152,496; Sept. 7; Gaz. vol. 218; p. 41.
- Ice-cream freezer. W. H. Jones. No. 1,162,368; Nov. 30; Gaz. vol. 220; p. 1569.
- Ice-cream freezer. J. S. Parrish. No. 1,144,667; June 29; Gaz. vol. 215; p. 1378.
- Ice-cream freezer. J. B. Silengo. No. 1,163,113; Dec. 7; Gaz. vol. 221; p. 132.
- Ice-cream freezer. T. L. Valerius. No. 1,158,592; Nov. 2; Gaz. vol. 220; p. 65.
- Ice-cream-freezer holder. E. Praeger. (Reissue.) No. 1,140,066; Nov. 2; Gaz. vol. 220; p. 327.
- Ice-cream-packing machine. W. C. Cutler. No. 1,128,762; Feb. 16; Gaz. vol. 211; p. 821.
- Ice-cream scraper. W. M. Yearley. No. 1,146,541; July 13; Gaz. vol. 216; p. 570.
- Ice-cream spoon. D. H. Mosteller. No. 1,142,354; June 8; Gaz. vol. 215; p. 482.
- Ice-creeper. J. MacVane. No. 1,154,646; Sept. 28; Gaz. vol. 218; p. 901.
- Ice-creeper. G. V. Malmstrom. No. 1,160,425; Nov. 16; Gaz. vol. 220; p. 793.
- Ice-creeper. M. Markowicz. No. 1,141,353; June 1; Gaz. vol. 215; p. 94.
- Ice-creeper. A. Reiss. No. 1,153,954; Sept. 21; Gaz. vol. 218; p. 634.
- Ice-creeper. C. R. Seybert. No. 1,140,075; May 18; Gaz. vol. 214; p. 903.
- Ice-creeper. J. Skunda. No. 1,144,155; June 22; Gaz. vol. 215; p. 1175.
- Ice-creeper, Detachable. F. Majewski. No. 1,145,384; July 6; Gaz. vol. 216; p. 142.
- Ice-cutting apparatus. M. A. Bruet and L. J. Duffer. No. 1,136,769; Apr. 20; Gaz. vol. 213; p. 1035.
- Ice-cutting machine. F. Bisek. No. 1,125,941; Jan. 26; Gaz. vol. 210; p. 1078.
- Ice-cutting machine. H. Blank, Jr. No. 1,155,400; Oct. 5; Gaz. vol. 219; p. 26.
- Ice-cutting machine. F. M. Hamlin. No. 1,146,156; July 13; Gaz. vol. 216; p. 434.
- Ice-dividing mechanism. J. A. Wooton. No. 1,149,241; Aug. 10; Gaz. vol. 217; p. 370.
- Ice handling and cutting machinery. R. W. Rich. No. 1,159,711; Nov. 9; Gaz. vol. 220; p. 488.
- Ice-harvester. W. Brunner. No. 1,145,670; July 6; Gaz. vol. 216; p. 242.
- Ice, Harvesting. E. C. Porter. No. 1,138,313; May 4; Gaz. vol. 214; p. 207.
- Ice, Harvesting. H. D. Pratt. No. 1,138,411; May 4; Gaz. vol. 214; p. 244.
- Ice-harvesting apparatus. E. C. Porter. No. 1,138,312; May 4; Gaz. vol. 214; p. 207.
- Ice-machine. J. H. Beckman. No. 1,154,836; Sept. 28; Gaz. vol. 218; p. 965.
- Ice-machine. W. Blankner. No. 1,156,832; Oct. 12; Gaz. vol. 219; p. 550.
- Ice-machine. H. D. Pownall. (Reissue.) No. 1,40,222; Nov. 30; Gaz. vol. 220; p. 1693.
- Ice-machine can-filler. T. Shipley. No. 1,158,322; Oct. 26; Gaz. vol. 219; p. 1166.
- Ice, Machinery for the manufacture of. T. Shipley. No. 1,158,320; Oct. 26; Gaz. vol. 219; p. 1165.
- Ice making and harvesting apparatus. E. T. Williams. (Reissue.) No. 1,39,566; July 27; Gaz. vol. 216; p. 1304.
- Ice making and harvesting apparatus. E. T. Williams. No. 1,149,009; Aug. 3; Gaz. vol. 217; p. 186.
- Ice-making apparatus. W. T. Carter. No. 1,130,960; Mar. 9; Gaz. vol. 212; p. 423.
- Ice-making apparatus. A. C. Davis. No. 1,148,578; Aug. 3; Gaz. vol. 217; p. 35.
- Ice-making apparatus. E. E. Gainer. No. 1,157,623; Oct. 19; Gaz. vol. 219; p. 855.
- Ice-making apparatus. T. B. Maginnis and T. Gaffney. No. 1,142,085; June 8; Gaz. vol. 215; p. 388.
- Ice-making apparatus. T. F. Pharo. No. 1,127,275; Feb. 2; Gaz. vol. 211; p. 214.
- Ice-making apparatus. G. L. Reuschline. No. 1,134,420; Apr. 6; Gaz. vol. 213; p. 122.
- Ice-making apparatus and process. W. H. Manns. No. 1,159,058; Nov. 2; Gaz. vol. 220; p. 224.
- Ice-making machine. C. D. Grant. No. 1,143,185; June 15; Gaz. vol. 215; p. 813.
- Ice-making machine. J. J. Murphy. No. 1,160,945; Nov. 16; Gaz. vol. 220; p. 979.
- Ice-making machine. J. F. Souther. No. 1,127,104; Feb. 2; Gaz. vol. 211; p. 155.
- Ice-making machines, Removable can for. C. S. Ralph. No. 1,129,519; Feb. 23; Gaz. vol. 211; p. 1124.
- Ice making machinery. J. A. Yeatman. No. 1,151,985; Aug. 31; Gaz. vol. 217; p. 1496.
- Ice-Manufacture of. T. Shipley. No. 1,130,440; Mar. 2; Gaz. vol. 212; p. 209.
- Ice, Manufacture of natural. E. Seavey. No. 1,163,472; Dec. 7; Gaz. vol. 221; p. 258.
- Ice, Manufacture of pure. W. P. Wiemann. No. 1,144,312; June 22; Gaz. vol. 215; p. 1230.
- Ice-manufacturing apparatus. W. B. Kirkpatrick. No. 1,162,075; Nov. 30; Gaz. vol. 220; p. 1468.
- Ice-manufacturing apparatus. C. W. Vollmann. No. 1,129,923; Mar. 2; Gaz. vol. 212; p. 31.
- Ice-mobile. E. J. A. Sommer. No. 1,128,195; Feb. 9; Gaz. vol. 211; p. 577.
- Ice-pick. A. Miklos. No. 1,133,052; Mar. 23; Gaz. vol. 212; p. 1257.
- Ice-pick. W. A. Stewart. No. 1,136,561; Apr. 20; Gaz. vol. 213; p. 961.
- Ice-pick holster. W. H. Bremer. No. 1,131,669; Mar. 16; Gaz. vol. 212; p. 702.
- Ice-plow. E. W. Ayers. No. 1,134,250; Apr. 6; Gaz. vol. 213; p. 62.
- Ice-run, Winter and summer. E. G. Wood. No. 1,153,991; Sept. 21; Gaz. vol. 218; p. 647.
- Ice-saw. R. C. Charlton. No. 1,160,843; Nov. 16; Gaz. vol. 220; p. 943.
- Ice-saw. P. D. Foster and F. A. Guetschow. No. 1,162,596; Nov. 30; Gaz. vol. 220; p. 1645.
- Ice-saw splitting attachment. T. A. Pacetty. No. 1,154,541; Sept. 21; Gaz. vol. 218; p. 835.
- Ice-sawing machine. J. Hill. No. 1,162,061; Nov. 30; Gaz. vol. 220; p. 1462.
- Ice-sawing machine. F. E. Reed. No. 1,141,268; June 1; Gaz. vol. 215; p. 63.
- Ice-shaver. J. F. Lamb. No. 1,155,663; Oct. 5; Gaz. vol. 219; p. 118.
- Ice-tongs. D. Henderson. No. 1,140,592; May 25; Gaz. vol. 214; p. 1118.
- Icebergs, steamships, and other cold or hot objects, Means for detecting the presence at a distance of. L. Bellingham. No. 1,158,967; Nov. 2; Gaz. vol. 220; p. 194.
- Icing device. G. Collis. No. 1,130,377; Mar. 2; Gaz. vol. 212; p. 186.
- Icing-machine. E. Legler. No. 1,164,944; Dec. 21; Gaz. vol. 221; p. 858.
- Icing-rack. G. Collis. No. 1,130,376; Mar. 2; Gaz. vol. 212; p. 186.
- Icing-rack. G. Collis. No. 1,130,379; Mar. 2; Gaz. vol. 212; p. 187.
- Identification device. F. C. Luethl. No. 1,149,929; Aug. 10; Gaz. vol. 217; p. 620.
- Identifying criminals and other persons through combination-picture, Device for. C. J. Smith. No. 1,155,523; Oct. 5; Gaz. vol. 219; p. 71.
- Igniter. L. V. Aronson. No. 1,131,655; Mar. 16; Gaz. vol. 212; p. 697.
- Igniter. D. J. Canchester. No. 1,134,314; Apr. 6; Gaz. vol. 213; p. 85.
- Igniter. A. C. Roessler. No. 1,148,409; July 27; Gaz. vol. 216; p. 1271.
- Igniter. W. C. Ruopp. No. 1,145,269; July 6; Gaz. vol. 216; p. 102.
- Igniter-actuating mechanism. J. E. Gilson. No. 1,142,086; June 8; Gaz. vol. 215; p. 389.
- Igniter, Rotary. B. W. Pierce. No. 1,130,628; Mar. 2; Gaz. vol. 212; p. 275.
- Igniting device. A. L. Hansen. No. 1,151,521; Aug. 24; Gaz. vol. 217; p. 1289.

Alphabetical list of inventions—Continued.

- Igniting implement. E. E. Hanson. No. 1,146,158; July 13; Gaz. vol. 216; p. 434.
- Igniting mechanism. B. Mazza. No. 1,160,927; Nov. 16; Gaz. vol. 220; p. 972.
- Igniting system. H. G. Osburn. No. 1,126,266; Jan. 26; Gaz. vol. 210; p. 1198.
- Ignition and lighting system, Automatic. J. A. Heany. No. 1,139,521; May 18; Gaz. vol. 214; p. 706.
- Ignition apparatus. R. Varley. No. 1,146,976; July 20; Gaz. vol. 216; p. 741.
- Ignition apparatus and system of spark control. R. Varley. No. 1,149,798; Aug. 10; Gaz. vol. 217; p. 572.
- Ignition-breaking device. L. J. Le Pontois. No. 1,149,843; Aug. 10; Gaz. vol. 217; p. 589.
- Ignition device. M. W. Staight. No. 1,163,479; Dec. 7; Gaz. vol. 221; p. 260.
- Ignition-generator for electric starter systems. A. L. McMurtry. No. 1,129,216; Feb. 23; Gaz. vol. 211; p. 1017.
- Ignition-machines, Operating mechanism for oscillatory. R. Wagner. No. 1,123,436; Jan. 5; Gaz. vol. 210; p. 82.
- Ignition system. C. Hartmann. No. 1,151,946; Aug. 31; Gaz. vol. 217; p. 1481.
- Ignition system. R. Huff. No. 1,164,722; Dec. 21; Gaz. vol. 221; p. 780.
- Ignition system. D. B. Hughes. No. 1,138,569; May 4; Gaz. vol. 214; p. 295.
- Ignition system. L. D. Kellogg. No. 1,157,696; Oct. 26; Gaz. vol. 219; p. 947.
- Ignition system. B. P. Swyers. No. 1,127,827; Feb. 9; Gaz. vol. 211; p. 450.
- Ignition system. R. Varley. No. 1,164,432; Dec. 14; Gaz. vol. 221; p. 639.
- Ignition system. P. R. Werner. No. 1,123,448; Jan. 5; Gaz. vol. 210; p. 86.
- Ignition-system controlling means. L. C. Watson and E. F. Boyer. No. 1,158,876; Nov. 2; Gaz. vol. 220; p. 164.
- Ignition system, Dual. A. P. Brush. No. 1,139,255; May 11; Gaz. vol. 214; p. 577.
- Ignition-timer. W. Kaisling. No. 1,144,135; June 22; Gaz. vol. 215; p. 1167.
- Illuminated fender. E. D. Shaw. No. 1,145,087; July 6; Gaz. vol. 216; p. 42.
- Illuminated note-pad. T. Robins. No. 1,145,848; July 6; Gaz. vol. 216; p. 305.
- Illuminating and heating device. W. H. Muzzy. No. 1,132,961; Mar. 23; Gaz. vol. 212; p. 1223.
- Illuminating apparatus. W. Lumley. No. 1,156,536; Oct. 12; Gaz. vol. 219; p. 447.
- Illuminating apparatus. W. Lumley. No. 1,156,537; Oct. 12; Gaz. vol. 219; p. 447.
- Illuminating apparatus. F. H. Weston. No. 1,159,306; Nov. 2; Gaz. vol. 220; p. 312.
- Illuminating apparatus, Automatic control device for. C. G. Lindblom. No. 1,155,496; Oct. 5; Gaz. vol. 219; p. 61.
- Illuminating apparatus, Mortuary-. J. O'Brien. No. 1,130,191; Mar. 2; Gaz. vol. 212; p. 122.
- Illuminating by luminescent tubes, System of. G. Claude. No. 1,125,476; Jan. 19; Gaz. vol. 210; p. 881.
- Illuminating cavities or surfaces, Apparatus applicable for. R. Biquard. No. 1,143,682; June 22; Gaz. vol. 215; p. 1010.
- Illuminating device. H. Alexander. No. 1,129,438; Feb. 23; Gaz. vol. 211; p. 1096.
- Illuminating device. A. Sundh. No. 1,136,378; Apr. 20; Gaz. vol. 213; p. 895.
- Illuminating mechanism. H. W. Sisson. No. 1,149,473; Aug. 10; Gaz. vol. 217; p. 454.
- Illuminator, Threshold-. C. E. Moore. No. 1,164,301; Dec. 14; Gaz. vol. 221; p. 592.
- Illusion device. K. Hashimoto. No. 1,137,756; May 4; Gaz. vol. 214; p. 12.
- Illusion of scenes in colors, Presenting the. T. A. Edison. No. 1,138,360; May 4; Gaz. vol. 214; p. 225.
- Illusory effects, Apparatus for producing. L. McCormick. No. 1,154,787; Sept. 28; Gaz. vol. 218; p. 948.
- Illustrations, Producing. A. L. Ormay. No. 1,143,991; June 22; Gaz. vol. 215; p. 1115.
- Illustration, Producing a fashion-garment. I. H. Rubin. No. 1,136,170; Apr. 20; Gaz. vol. 213; p. 821.
- Image-producing device. H. S. Gay and E. W. Duke. No. 1,146,323; July 13; Gaz. vol. 216; p. 491.
- Images of transparent and opaque objects, Apparatus for projecting. W. L. Patterson. No. 1,127,504; Feb. 9; Gaz. vol. 211; p. 335.
- Imitation stained glass. G. Emerson. No. 1,146,855; July 20; Gaz. vol. 216; p. 697.
- Impact-indicator and game device. W. J. English and G. M. Wilcox. No. 1,145,833; July 6; Gaz. vol. 216; p. 300.
- Impact-machine. W. L. Smith. No. 1,127,535; Feb. 9; Gaz. vol. 211; p. 345.
- Impact mechanism. J. H. Baldwin. No. 1,159,462; Nov. 9; Gaz. vol. 220; p. 400.
- Impact-register. W. P. Savage. No. 1,125,731; Jan. 19; Gaz. vol. 210; p. 974.
- Impact-tool. H. A. Fardeen. No. 1,132,063; Mar. 16; Gaz. vol. 212; p. 845.
- Implement-head, Combination. S. Geratt. No. 1,133,124; Mar. 23; Gaz. vol. 212; p. 1282.
- Implement-socket fastening. J. W. Riddell. No. 1,139,724; May 18; Gaz. vol. 214; p. 779.
- Imposing-table and proof-press. F. C. Leethem. No. 1,139,984; May 18; Gaz. vol. 214; p. 870.
- Impregnated material, Manufacture of. J. Rosen. No. 1,155,443; Oct. 5; Gaz. vol. 219; p. 41.
- Impregnating and coating materials. L. P. Destribats. No. 1,135,777; Apr. 13; Gaz. vol. 213; p. 642.
- Impregnating apparatus. O. S. Sleeper. No. 1,154,447; Sept. 21; Gaz. vol. 218; p. 804.
- Impregnator. F. B. Graham. No. 1,155,804; Oct. 5; Gaz. vol. 219; p. 168.
- Impression-cylinders, Non-offset surface-covering for. J. F. Haskins. No. 1,148,381; July 27; Gaz. vol. 216; p. 1263.
- Impulse-producing mechanism. H. Pfannenstiel and A. H. Adams. No. 1,158,951; Nov. 2; Gaz. vol. 220; p. 189.
- Impulse-sending mechanism. A. H. Adams. No. 1,164,625; Dec. 21; Gaz. vol. 221; p. 746.
- Impulse-sending mechanism. F. R. McBerty and A. H. Adams. No. 1,127,050; Feb. 2; Gaz. vol. 211; p. 136.
- Impulse-transmitter. W. M. Bruce, Jr. No. 1,124,105; Jan. 5; Gaz. vol. 210; p. 308.
- Impulse-transmitter. W. F. Hoffman. No. 1,124,021; Jan. 5; Gaz. vol. 210; p. 279.
- Impulse-transmitters, Apparatus for determining the speed of rotation of. A. H. Adams. No. 1,160,356; Nov. 16; Gaz. vol. 220; p. 769.
- Impulse-transmitting device. J. G. Blessing. No. 1,145,543; July 6; Gaz. vol. 216; p. 198.
- Impulse-transmitting device. J. G. Blessing. No. 1,145,544; July 6; Gaz. vol. 216; p. 199.
- Impulse-transmitting mechanism. A. H. Adams. No. 1,164,626; Dec. 21; Gaz. vol. 221; p. 747.
- Impulses, Method of and apparatus for reproducing. R. A. Fessenden. No. 1,133,435; Mar. 30; Gaz. vol. 212; p. 1428.
- Incandescent mantle. S. Gulbrandsen. No. 1,133,470; Mar. 30; Gaz. vol. 212; p. 1439.
- Incandescent mantles, Apparatus for manufacture of. E. L. Knoedler. No. 1,157,555; Oct. 19; Gaz. vol. 219; p. 834.
- Incandescing burner. D. J. Monosmith. No. 1,145,500; July 6; Gaz. vol. 216; p. 183.
- Incinerating plant. T. F. Bennett. No. 1,158,162; Oct. 26; Gaz. vol. 219; p. 1110.
- Incinerator. F. L. L. A. R., and A. S. Decarie. No. 1,125,976; Jan. 26; Gaz. vol. 210; p. 1092.
- Incinerator. B. B. Kahn. No. 1,156,691; Oct. 12; Gaz. vol. 219; p. 502.
- Incinerator. W. C. McKeown. No. 1,140,472; May 25; Gaz. vol. 214; p. 1077.
- Incinerator. A. Leighton and H. N. Ruttan. No. 1,155,586; Oct. 5; Gaz. vol. 219; p. 90.
- Incinerator. C. C. Myers. No. 1,160,437; Nov. 16; Gaz. vol. 220; p. 796.
- Incinerator. A. H. Reid. No. 1,126,866; Feb. 2; Gaz. vol. 211; p. 71.
- Incinerator. J. B. Ricketts. No. 1,137,232; Apr. 27; Gaz. vol. 213; p. 1238.
- Incinerator. J. B. Ricketts. No. 1,137,424; Apr. 27; Gaz. vol. 213; p. 1309.
- Incinerator. H. H. Weaver. No. 1,131,188; Mar. 9; Gaz. vol. 212; p. 501.
- Incinerator, Portable. H. M. Rudd. No. 1,124,529; Jan. 12; Gaz. vol. 210; p. 508.
- Inclinable elevator. F. E. Moore. No. 1,162,382; Nov. 30; Gaz. vol. 220; p. 1574.
- Inclinator for carbons. H. M. McCord. No. 1,137,071; Apr. 27; Gaz. vol. 213; p. 1179.
- Inclinometer. G. P. White. No. 1,124,984; Jan. 12; Gaz. vol. 210; p. 671.
- Incubation, Artificial. O. Shackelford. No. 1,156,374; Oct. 12; Gaz. vol. 219; p. 390.
- Incubator. A. Allen. No. 1,153,184; Sept. 14; Gaz. vol. 218; p. 327.
- Incubator. T. Cowburn. No. 1,137,582; Apr. 27; Gaz. vol. 213; p. 1361.
- Incubator. H. E. Dell. No. 1,145,570; July 6; Gaz. vol. 216; p. 207.
- Incubator. R. Klett. No. 1,127,021; Feb. 2; Gaz. vol. 211; p. 127.
- Incubator. J. W. May. No. 1,150,379; Aug. 17; Gaz. vol. 217; p. 840.
- Incubator. C. H. Osborn. No. 1,144,232; June 22; Gaz. vol. 215; p. 1202.
- Incubator. F. A. Reiber. No. 1,127,679; Feb. 9; Gaz. vol. 211; p. 393.
- Incubator. A. F. Shuler. No. 1,126,105; Jan. 26; Gaz. vol. 210; p. 1140.
- Incubator. S. S. Van Keuren. No. 1,160,793; Nov. 16; Gaz. vol. 220; p. 925.
- Incubator. C. Von Cullin. No. 1,162,420; Nov. 30; Gaz. vol. 220; p. 1586.
- Incubator. H. L. Watson. No. 1,146,909; July 20; Gaz. vol. 216; p. 716.
- Incubator and brooder, Combined. A. A. and F. B. Skinner. (Reissue.) No. 14,013; Nov. 16; Gaz. vol. 220; p. 1006.

- Incubator and heating means therefor. W. H. Howard. No. 1,149,916; Aug. 10; Gaz. vol. 217; p. 615.
- Incubator. Bacterial. J. Boekel and J. H. Scherer. No. 1,145,054; July 6; Gaz. vol. 216; p. 29.
- Incubator heat-regulator. C. P. Heimbouger. No. 1,130,899; Mar. 9; Gaz. vol. 212; p. 403.
- Incubator-heater. G. F. Armstrong. No. 1,130,052; Mar. 2; Gaz. vol. 212; p. 73.
- Incubator-heater. A. Essig. No. 1,137,472; Apr. 27; Gaz. vol. 213; p. 1324.
- Incubator-tray. J. H. Kate. No. 1,154,927; Sept. 28; Gaz. vol. 218; p. 995.
- Incubators and brooders. Heating system for. H. M. Sheer. No. 1,128,535; Feb. 16; Gaz. vol. 211; p. 744.
- Incubators. Automatic temperature-regulating device for. W. J. Perkins. No. 1,162,947; Dec. 7; Gaz. vol. 221; p. 74.
- Incubators. Water-tray for. J. H. Kate. No. 1,155,819; Oct. 5; Gaz. vol. 219; p. 173.
- Index. Adjustable. S. Anthony. No. 1,123,215; Jan. 5; Gaz. vol. 210; p. 4.
- Index. Book. L. R. Smith. No. 1,132,222; Mar. 16; Gaz. vol. 212; p. 903.
- Index-card. J. C. Hub. No. 1,150,034; Aug. 17; Gaz. vol. 217; p. 718.
- Index. Card. C. A. Meilcke. No. 1,149,384; Aug. 10; Gaz. vol. 217; p. 423.
- Index. Card. A. C. Wiechers. No. 1,147,772; July 27; Gaz. vol. 216; p. 1045.
- Index device. E. G. Mays. No. 1,127,481; Feb. 9; Gaz. vol. 211; p. 328.
- Index-guide. J. H. and J. H. Rand, Jr. No. 1,128,044; Feb. 9; Gaz. vol. 211; p. 525.
- Index. Loose-leaf. C. A. Honecker. No. 1,148,680; Aug. 3; Gaz. vol. 217; p. 71.
- Index of land-titles and other records. C. C. Buchanan. No. 1,128,100; Feb. 9; Gaz. vol. 211; p. 544.
- Index or file. I. Fisher. No. 1,145,411; July 6; Gaz. vol. 216; p. 152.
- Index. Overlapping card. T. H. Rosenberger. No. 1,158,857; Nov. 2; Gaz. vol. 220; p. 158.
- Index-plate and apparatus for using same. Flash. A. R. Fergusson. No. 1,139,509; May 18; Gaz. vol. 214; p. 702.
- Index system. H. A. Wardy. No. 1,146,466; July 13; Gaz. vol. 216; p. 545.
- Index system. Card. J. H. Rand, Jr. No. 1,142,728; June 8; Gaz. vol. 215; p. 610.
- Index-system guide. J. H. Rand, Jr. No. 1,140,480; May 25; Gaz. vol. 214; p. 1080.
- Index-tab. J. R. Kingsley and H. W. Miller. No. 1,151,475; Aug. 24; Gaz. vol. 217; p. 1272.
- Index. Visible-card. A. Moses. No. 1,126,062; Jan. 26; Gaz. vol. 210; p. 1123.
- Indexing and assorting means. C. H. Tallmadge. No. 1,150,793; Aug. 17; Gaz. vol. 217; p. 983.
- Indexing stock-page catalogues. C. F. Beezley, Jr. No. 1,127,852; Feb. 9; Gaz. vol. 211; p. 458.
- Indexing system. E. S. Davis. No. 1,125,071; Jan. 19; Gaz. vol. 210; p. 736.
- Indicating and registering mechanism. W. Simonsson. No. 1,137,094; Apr. 27; Gaz. vol. 213; p. 1188.
- Indicating device. C. W. Bedell. No. 1,131,314; Mar. 9; Gaz. vol. 212; p. 545.
- Indicating device. J. R. Blaine. No. 1,155,788; Oct. 5; Gaz. vol. 219; p. 162.
- Indicating device. J. Walter. No. 1,142,645; June 8; Gaz. vol. 215; p. 583.
- Indicating instruments. Mechanical movement for. C. A. Besemann. No. 1,125,798; Jan. 19; Gaz. vol. 210; p. 997.
- Indicating means. F. B. Carlisle. No. 1,137,697; Apr. 27; Gaz. vol. 213; p. 1397.
- Indicating mechanism. F. Ebert. No. 1,128,960; Feb. 16; Gaz. vol. 211; p. 894.
- Indicating mechanism. F. L. Fuller. No. 1,163,748; Dec. 14; Gaz. vol. 221; p. 401.
- Indicating mechanism. T. Midgley, Jr. No. 1,149,383; Aug. 10; Gaz. vol. 217; p. 424.
- Indicating, registering, and controlling device worked by an electric current. J. E. Colas. No. 1,124,864; Jan. 12; Gaz. vol. 210; p. 629.
- Indicating system. E. C. Molina. No. 1,144,560; June 29; Gaz. vol. 215; p. 1342.
- Indicator. See—
- Adjustable indicator.
- Automobile-indicator.
- Automobile direction-indicator.
- Automobile theft-indicator.
- Azimuth and other indicator.
- Bargain-indicator.
- Bearing-indicator.
- Car-indicator.
- Car station-indicator.
- Car street-indicator.
- Cash-register indicator.
- Cash-register sales-indicator.
- Center and axis indicator.
- Current-indicator.
- Demand-indicator.
- Depth-indicator.
- Dial test-indicator.
- Direction-indicator.
- Door-indicator.
- Dose-indicator.
- Electric indicator.
- Electrical indicator.
- Elevator-position indicator.
- Excess-indicator.
- Fluid-indicator.
- Fluid-level indicator.
- Frequency-indicator.
- Gasolene-tank indicator.
- Gear-indicator.
- Indicator—Continued.
- Grade-indicator.
- Hoisting and conveying indicator.
- Impact-indicator.
- Item-indicator.
- Lamp-trimming indicator.
- Level-indicator.
- Liquid-feed indicator.
- Lock-indicator.
- Lubricator-indicator.
- Maximum-demand indicator.
- Micrometer-indicator.
- Music-indicator.
- Parcel-post-rate indicator.
- Piano-keyboard indicator.
- Plate-holder indicator.
- Poison-indicator.
- Polarity-indicator.
- Pressure-indicator.
- Punch-center indicator.
- Radiator-indicator.
- Railway-station indicator.
- Rain-indicator.
- Reservation-indicator.
- Rifle-range shot-indicator.
- Route-indicator.
- Ship's indicator.
- Signal-indicator.
- Smoke-indicator.
- Indicator. J. G. Anthony. No. 1,151,152; Aug. 24; Gaz. vol. 217; p. 1165.
- Indicator. J. B., G. H., and N. D. Baker. No. 1,124,100; Jan. 5; Gaz. vol. 210; p. 306.
- Indicator. E. H. Bixler. No. 1,125,447; Jan. 19; Gaz. vol. 210; p. 872.
- Indicator. W. F. Caldwell. No. 1,139,486; May 18; Gaz. vol. 214; p. 694.
- Indicator. L. Church. No. 1,139,489; May 18; Gaz. vol. 214; p. 695.
- Indicator. J. Frame. No. 1,123,269; Jan. 5; Gaz. vol. 210; p. 23.
- Indicator. A. Hartmann. No. 1,127,618; Feb. 9; Gaz. vol. 211; p. 372.
- Indicator. D. O. Lawrence. No. 1,138,124; May 4; Gaz. vol. 214; p. 143.
- Indicator. C. C. F. Nieschang. No. 1,132,282; Mar. 16; Gaz. vol. 212; p. 927.
- Indicator. M. F. Sullivan. No. 1,128,196; Feb. 9; Gaz. vol. 211; p. 577.
- Indicator. A. Sundh. No. 1,159,609; Nov. 9; Gaz. vol. 220; p. 452.
- Indicator. C. F. Zinn. No. 1,153,530; Sept. 14; Gaz. vol. 218; p. 452.
- Indicator alarm device. B. H. Jefferson. No. 1,145,591; July 6; Gaz. vol. 216; p. 214.
- Indicator device. J. H. Rand. No. 1,149,081; Aug. 3; Gaz. vol. 217; p. 210.
- Indicator-lock. K. D. Senior. No. 1,146,737; July 13; Gaz. vol. 216; p. 636.
- Indicator-lock. J. H. Shaw. No. 1,152,443; Sept. 7; Gaz. vol. 218; p. 21.
- Indicator-lock. J. H. Shaw. No. 1,164,229; Dec. 14; Gaz. vol. 221; p. 566.
- Indicator mechanism. Compensating. A. A. Bowser. No. 1,147,842; July 27; Gaz. vol. 216; p. 1070.
- Indicator-signal for lockers and the like. M. S. Hart and W. J. Williams. No. 1,158,920; Nov. 2; Gaz. vol. 220; p. 179.
- Indicator or timer. R. C. Emery. No. 1,131,498; Mar. 9; Gaz. vol. 212; p. 609.
- Induction light system. J. Ledwinka. No. 1,136,684; Apr. 20; Gaz. vol. 213; p. 1004.
- Induction-meter. G. A. Scheeffler. No. 1,158,565; Nov. 2; Gaz. vol. 220; p. 55.
- Induction-motor. R. E. Hellmund. No. 1,158,495; Nov. 2; Gaz. vol. 220; p. 29.
- Induction-motor. B. McCollum. No. 1,156,364; Oct. 12; Gaz. vol. 219; p. 386.
- Induction-motor. E. Thomson. No. 1,134,776; Apr. 6; Gaz. vol. 213; p. 254.
- Induction-motor. Split-pole. J. S. Mueller. No. 1,164,302; Dec. 14; Gaz. vol. 221; p. 592.
- Induction-motors. Operating polyphase. B. G. Lamme. No. 1,123,321; Jan. 5; Gaz. vol. 210; p. 42.
- Inductive apparatus. Stationary. H. C. Soule. No. 1,140,922; May 25; Gaz. vol. 214; p. 1234.
- Inductor. A. B. Herrick. No. 1,164,611; Dec. 14; Gaz. vol. 221; p. 700.
- Inductor-generator. J. L. Milton. No. 1,141,474; June 1; Gaz. vol. 215; p. 139.
- Inductor-generator. J. L. Milton. No. 1,142,047; June 8; Gaz. vol. 215; p. 374.
- Inertia unit. Stamped. J. C. Turner. No. 1,165,919; Dec. 28; Gaz. vol. 221; p. 1237.
- Infant's combination-carrier. A. Hellfritsch. No. 1,139,762; May 18; Gaz. vol. 214; p. 791.
- Infant's seat. Auxiliary. F. H. Knight. No. 1,147,329; July 20; Gaz. vol. 216; p. 861.
- Sound-indicator.
- Sparking indicator.
- Speed-indicator.
- Station-indicator.
- Strain-indicator.
- Street-indicator.
- Street and station indicator.
- Street or station indicator.
- Switch-indicator.
- Synchronism-indicator.
- Tank-indicator.
- Taxicab-indicator.
- Telephone-indicator.
- Temperature-indicator.
- Test-indicator.
- Time-indicator.
- Time-lock indicator.
- Traffic-indicator.
- Trip and station indicator.
- Type-writer margin-indicator.
- Vacuum-indicator.
- Vehicle-indicator.
- Vehicle direction-indicator.
- Vehicle rear indicator.
- Vehicle warning-indicator.
- Water-level indicator.
- Wheel-direction indicator.
- Winding-indicator.

Alphabetical list of inventions—Continued.

- Inflammable-material containers, Safety device for. V. Gaumer. No. 1,134,838; Apr. 6; Gaz. vol. 213; p. 272.
- Inflated ball. F. T. Roberts. No. 1,151,396; Aug. 24; Gaz. vol. 217; p. 1246.
- Inflating and sealing hollow spherical objects. A. A. Green. No. 1,159,932; Nov. 9; Gaz. vol. 220; p. 569.
- Ingot-mold. E. Gathmann. No. 1,137,264; Apr. 27; Gaz. vol. 213; p. 1251.
- Ingot-mold. S. E. Hitt and J. I. Peyton. No. 1,139,284; May 11; Gaz. vol. 214; p. 586.
- Ingot-mold. J. I. Peyton and S. E. Hitt. No. 1,139,219; May 11; Gaz. vol. 214; p. 564.
- Ingot-mold. H. E. Sheldon. No. 1,158,318; Oct. 26; Gaz. vol. 219; p. 1165.
- Ingot-mold top. E. F. Kenney. No. 1,135,381; Apr. 13; Gaz. vol. 213; p. 502.
- Ingot-molds, Adjustable feeder for standard. E. J. Turner and B. H. Howard. No. 1,149,228; Aug. 10; Gaz. vol. 217; p. 366.
- Ingot-molds, Core-barrel for. J. P. Bagley. No. 1,155,122; Sept. 28; Gaz. vol. 218; p. 1065.
- Ingot-molds, Core-barrel for. C. G. Robinson. No. 1,157,648; Oct. 19; Gaz. vol. 219; p. 864.
- Ingot-molds, Molding apparatus for. J. B. Walker. No. 1,151,229; Aug. 24; Gaz. vol. 217; p. 1191.
- Ingots, Apparatus for treating cast. T. Preks. No. 1,134,348; Apr. 6; Gaz. vol. 213; p. 97.
- Ingots, Treating. H. W. Hixon. No. 1,130,513; Mar. 2; Gaz. vol. 212; p. 236.
- Inhaler. D. M. Barr. No. 1,151,649; Aug. 31; Gaz. vol. 217; p. 1380.
- Inhaler. M. Bye. No. 1,134,993; Apr. 13; Gaz. vol. 213; p. 370.
- Inhaler. C. A. Garske. No. 1,139,357; May 11; Gaz. vol. 214; p. 611.
- Inhaler. H. J. Miller. No. 1,129,583; Feb. 23; Gaz. vol. 211; p. 1147.
- Inhaler. C. C. F. Nieschang. No. 1,155,608; Oct. 5; Gaz. vol. 219; p. 98.
- Inhaler. W. F. Ware. No. 1,165,473; Dec. 28; Gaz. vol. 221; p. 1081.
- Inhaler, Nasal. K. F. Wallin. No. 1,160,797; Nov. 16; Gaz. vol. 220; p. 927.
- Inhaler, Nasal liquid. E. Clark. No. 1,130,961; Mar. 9; Gaz. vol. 212; p. 423.
- Inhalers, Valve for nasal. C. K. Teter. No. 1,162,416; Nov. 30; Gaz. vol. 220; p. 1585.
- Inhaling apparatus. D. A. Whitney. No. 1,132,138; Mar. 16; Gaz. vol. 212; p. 873.
- Inhaling system. G. A. Zapf. No. 1,129,619; Feb. 23; Gaz. vol. 211; p. 1160.
- Injecting device. C. L. Day. No. 1,143,813; June 22; Gaz. vol. 215; p. 1053.
- Injection of fluids into the body. Apparatus for intravenous. J. H. Stevens. No. 1,159,127; Nov. 2; Gaz. vol. 220; p. 247.
- Injector. J. H. Cook. No. 1,159,178; Nov. 2; Gaz. vol. 220; p. 267.
- Injector. J. A. De Cew. No. 1,149,554; Aug. 10; Gaz. vol. 217; p. 483.
- Injector. H. E. Haskell. No. 1,161,127; Nov. 23; Gaz. vol. 220; p. 1088.
- Injector. L. Kassander and H. L. Leverett. No. 1,153,114; Sept. 7; Gaz. vol. 218; p. 265.
- Injector. E. D. Loane, Jr. No. 1,162,789; Dec. 7; Gaz. vol. 221; p. 20.
- Ink and making same. R. Hochstetter. No. 1,158,131; Oct. 26; Gaz. vol. 219; p. 1100.
- Ink-dispensing device. M. Svalland. No. 1,125,892; Jan. 19; Gaz. vol. 210; p. 1028.
- Ink-distributing device. E. P. Jennings, Jr. No. 1,143,764; June 22; Gaz. vol. 215; p. 1037.
- Ink-eradicator. K. W. MacPherson. No. 1,153,807; Sept. 14; Gaz. vol. 218; p. 548.
- Ink for printing on cloth. C. J. Bullinger. No. 1,162,027; Nov. 30; Gaz. vol. 220; p. 1451.
- Ink from paper-stock. Removing. M. Cline and C. F. Rhodes. No. 1,138,085; May 4; Gaz. vol. 214; p. 128.
- Ink or fluid for use on embroidery fabrics or sheets. Marking. J. Mossman. No. 1,159,857; Nov. 9; Gaz. vol. 220; p. 543.
- Ink. Printing. G. E. Pösse. No. 1,142,365; June 8; Gaz. vol. 215; p. 486.
- Ink-receptacles, Attachment for. J. Michel. No. 1,144,910; June 29; Gaz. vol. 215; p. 1462.
- Ink-supplying device. M. Borsodi. No. 1,157,613; Oct. 19; Gaz. vol. 219; p. 852.
- Ink-well. W. Bailey. No. 1,141,753; June 1; Gaz. vol. 215; p. 235.
- Ink-well. M. Lubas. No. 1,162,791; Dec. 7; Gaz. vol. 221; p. 21.
- Ink-well. J. V. Washburne. No. 1,134,429; Apr. 6; Gaz. vol. 213; p. 126.
- Ink-well attachment. A. D. Evans. No. 1,134,829; Apr. 6; Gaz. vol. 213; p. 270.
- Ink-well, Non-spillable. W. C. Seckman. No. 1,163,782; Dec. 14; Gaz. vol. 221; p. 412.
- Inking apparatus. R. Sattler and L. J. Morand. No. 1,130,022; Mar. 2; Gaz. vol. 212; p. 63.
- Inking device for rotary duplicators. C. F. Green. No. 1,137,400; Apr. 27; Gaz. vol. 213; p. 1300.
- Inking mechanism. J. J. Halliwell. No. 1,130,727; Mar. 9; Gaz. vol. 212; p. 343.
- Inking mechanism. I. F. Niles. No. 1,159,860; Nov. 9; Gaz. vol. 220; p. 543.
- Inking mechanism. F. W. Thomas. No. 1,135,075; Apr. 13; Gaz. vol. 213; p. 398.
- Inking-ribbon mechanism. C. Owens. No. 1,162,643; Nov. 30; Gaz. vol. 220; p. 1659.
- Inking-roller. Slip-on. D. A. McKenna. No. 1,143,419; June 15; Gaz. vol. 215; p. 895.
- Inking-rollers. Angle-roller socket for. J. F. Johnson. No. 1,147,947; July 27; Gaz. vol. 216; p. 1107.
- Inking-rolls, Adjustment for. F. Sabot. No. 1,127,811; Feb. 9; Gaz. vol. 211; p. 444.
- Inkstand. F. H. Allen. No. 1,161,579; Nov. 23; Gaz. vol. 220; p. 1249.
- Inner tubes, Protecting-casing for. C. Sauer. No. 1,146,819; July 20; Gaz. vol. 216; p. 685.
- Innersole. E. C. Donnell. No. 1,152,887; Sept. 7; Gaz. vol. 218; p. 187.
- Innersole. C. B. Mansbach. No. 1,165,687; Dec. 28; Gaz. vol. 221; p. 1158.
- Innersole and making the same. J. V. Poole. No. 1,137,282; Apr. 27; Gaz. vol. 213; p. 1257.
- Innersole, Cushion-. H. C. Tyssie. No. 1,132,132; Mar. 16; Gaz. vol. 212; p. 870.
- Innersoles of the Gem type, Machine for covering. B. Hall. No. 1,160,711; Nov. 16; Gaz. vol. 220; p. 898.
- Inseam-trimming machine. W. C. Meyer. No. 1,154,713; Sept. 28; Gaz. vol. 218; p. 923.
- Insect-beater. F. R. Maguire. No. 1,150,690; Aug. 17; Gaz. vol. 217; p. 949.
- Insect-capturing apparatus. K. G. Gyllstrom. No. 1,144,358; June 29; Gaz. vol. 215; p. 1274.
- Insect-catcher. J. F. Le Baron. No. 1,148,910; Aug. 3; Gaz. vol. 217; p. 151.
- Insect-catcher. G. M. Tunison. No. 1,144,450; June 29; Gaz. vol. 215; p. 1305.
- Insect-catching device. C. Olsen and W. C. Stautzenberger. No. 1,142,614; June 8; Gaz. vol. 215; p. 573.
- Insect-catching machine. W. L. Hesterly. No. 1,156,778; Oct. 12; Gaz. vol. 219; p. 531.
- Insect-destroyer. M. D. Barefield. No. 1,131,458; Mar. 9; Gaz. vol. 212; p. 595.
- Insect-destroyer. E. Boland. No. 1,133,357; Mar. 30; Gaz. vol. 212; p. 1400.
- Insect-destroyer. J. C. Harmon and C. F. Warning. No. 1,125,519; Jan. 19; Gaz. vol. 210; p. 896.
- Insect-destroyer. J. H. Mock. No. 1,133,567; Mar. 30; Gaz. vol. 212; p. 1475.
- Insect-destroying device. J. Snipes. No. 1,152,234; Aug. 31; Gaz. vol. 217; p. 1582.
- Insect-extermiator. P. Godlevski. No. 1,127,880; Feb. 9; Gaz. vol. 211; p. 468.
- Insect-guard. F. J. Rush. No. 1,164,219; Dec. 14; Gaz. vol. 221; p. 563.
- Insect-killing apparatus. E. A. Grant. No. 1,142,810; June 15; Gaz. vol. 215; p. 680.
- Insect-killing device. G. W. Gomber. No. 1,161,654; Nov. 23; Gaz. vol. 220; p. 1273.
- Insect-powder container and sprinkler. S. H. Louis. No. 1,148,391; July 27; Gaz. vol. 216; p. 1266.
- Insect-trap. J. E. Brewer. No. 1,148,748; Aug. 3; Gaz. vol. 217; p. 96.
- Insect-trap. W. Harrison. No. 1,126,994; Feb. 2; Gaz. vol. 211; p. 116.
- Insect-trap. C. M. Manor. No. 1,125,701; Jan. 19; Gaz. vol. 210; p. 963.
- Insect-trap. W. M. Murphy and J. J. Redner. No. 1,135,710; Apr. 13; Gaz. vol. 213; p. 620.
- Insect-trap. J. J. Noonan. No. 1,158,542; Nov. 2; Gaz. vol. 220; p. 48.
- Insect-trap. W. A. Nye. No. 1,124,642; Jan. 12; Gaz. vol. 210; p. 550.
- Insect-trap. C. A. Pipenhagen. No. 1,139,717; May 18; Gaz. vol. 214; p. 776.
- Insect-trap. T. O. Williams. No. 1,166,103; Dec. 28; Gaz. vol. 221; p. 1301.
- Insects, more especially flies and mosquitoes, Means for catching. J. H. Kessler. No. 1,133,382; Mar. 30; Gaz. vol. 212; p. 1409.
- Insecticide. R. E. Watson. No. 1,156,954; Oct. 19; Gaz. vol. 219; p. 623.
- Insecticide and preparing same. L. Terry. No. 1,153,974; Sept. 21; Gaz. vol. 218; p. 641.
- Insecticide-distributor. J. Frank. No. 1,140,453; May 25; Gaz. vol. 214; p. 1069.
- Insole. J. A. Ames. No. 1,156,026; Oct. 5; Gaz. vol. 219; p. 243.
- Insole. A. S. Boyer. No. 1,144,291; June 22; Gaz. vol. 215; p. 1223.
- Insole. C. J. Landolt. No. 1,158,693; Nov. 2; Gaz. vol. 220; p. 99.
- Insole. J. F. Peters and J. W. Dudgeon. No. 1,151,609; Aug. 31; Gaz. vol. 217; p. 1367.
- Insole. C. A. Sharp. No. 1,137,092; Apr. 27; Gaz. vol. 213; p. 1187.
- Insole. H. N. Spaulding. No. 1,135,217; Apr. 13; Gaz. vol. 213; p. 446.
- Insole and arch-support. Cushion. J. D. Lee. No. 1,125,134; Jan. 19; Gaz. vol. 210; p. 758.

Alphabetical list of inventions—Continued.

- Insole and arch-support for boots, shoes, and the like, Combined ventilating-. J. Abramowitz. No. 1,160,810; Nov. 16; Gaz. vol. 220; p. 932.
- Insole-channeling machine. W. S. Lougee and W. N. Morrison. No. 1,160,734; Nov. 16; Gaz. vol. 220; p. 905.
- Insole-finishing machine. J. E. Jackson. No. 1,162,721; Nov. 30; Gaz. vol. 220; p. 1686.
- Insole-forming machine. E. H. Taylor. No. 1,152,131; Aug. 31; Gaz. vol. 217; p. 1546.
- Insole-making machine. W. Fowler. No. 1,146,789; July 20; Gaz. vol. 216; p. 675.
- Insole, Pneumatic. S. S. Gay. No. 1,148,376; July 27; Gaz. vol. 216; p. 1261.
- Insole-preparing machine. J. N. Moulton. No. 1,154,716; Sept. 28; Gaz. vol. 218; p. 924.
- Insole-reinforcing machine. A. M. Alexander. No. 1,143,016; June 15; Gaz. vol. 215; p. 753.
- Insole-reinforcing machine. C. Norden. No. 1,165,801; Dec. 28; Gaz. vol. 221; p. 1197.
- Insole-reinforcing machine. T. H. Seely. No. 1,149,297; Aug. 10; Gaz. vol. 217; p. 392.
- Insole-tempering device. N. J. Nicholson. No. 1,133,879; Mar. 30; Gaz. vol. 212; p. 1588.
- Insoles for wetted boots and shoes, Machine for treating. W. S. Lougee. No. 1,160,733; Nov. 16; Gaz. vol. 220; p. 905.
- Insoles, Machine for operating on. G. W. Hammon. No. 1,161,769; Nov. 23; Gaz. vol. 220; p. 1313.
- Insoles, Machine for operating upon. J. B. Hadaway. No. 1,126,990; Feb. 2; Gaz. vol. 211; p. 115.
- Insoles, Making. E. H. Taylor. No. 1,145,094; July 6; Gaz. vol. 216; p. 44.
- Inspection device. W. H. Pettengill. No. 1,161,882; Nov. 30; Gaz. vol. 220; p. 1399.
- Inspector's gage. F. B. Corey. No. 1,152,792; Sept. 7; Gaz. vol. 218; p. 151.
- Instep-arch support. S. Berman. No. 1,164,328; Dec. 14; Gaz. vol. 221; p. 603.
- Instep-arch support. W. M. Scholl. No. 1,136,442; Apr. 20; Gaz. vol. 213; p. 919.
- Instep-arch support. W. M. Scholl. No. 1,136,443; Apr. 20; Gaz. vol. 213; p. 919.
- Instep-arch support. W. M. Scholl. No. 1,142,848; June 15; Gaz. vol. 215; p. 692.
- Instep-arch support. W. M. Scholl. No. 1,142,850; June 15; Gaz. vol. 215; p. 693.
- Instep-arch support. W. M. Scholl. No. 1,146,597; July 13; Gaz. vol. 216; p. 589.
- Instep-arch supporter. W. M. Scholl. No. 1,142,849; June 15; Gaz. vol. 215; p. 692.
- Instep-support. W. H. Horn, Jr. No. 1,140,159; May 18; Gaz. vol. 214; p. 932.
- Instrument. E. L. Renstrom. No. 1,149,085; Aug. 3; Gaz. vol. 217; p. 211.
- Instrument-case, Antiseptic. G. H. Rentz. No. 1,143,436; June 15; Gaz. vol. 215; p. 902.
- Instrument-table. A. W. Schramm. No. 1,143,443; June 15; Gaz. vol. 215; p. 904.
- Insulated handle for metal vessels. A. E. Hobson. No. 1,137,972; May 4; Gaz. vol. 214; p. 88.
- Insulated joint. C. O. Burton. No. 1,148,498; Aug. 3; Gaz. vol. 217; p. 5.
- Insulated wire, apparatus for indicating variations in gage of. W. H. McGauley. No. 1,133,300; Mar. 30; Gaz. vol. 212; p. 1380.
- Insulating-boards from fibrous material, Machine for manufacturing. A. G. Brown. No. 1,151,563; Aug. 31; Gaz. vol. 217; p. 1350.
- Insulating composition. L. H. Baekeland. No. 1,156,452; Oct. 12; Gaz. vol. 219; p. 417.
- Insulating composition, Forming an article from an. J. F. Menningen. No. 1,162,092; Nov. 30; Gaz. vol. 220; p. 1474.
- Insulating compound, Electrically-. O. V. Thomas. No. 1,153,975; Sept. 21; Gaz. vol. 218; p. 641.
- Insulating-coverings of oxid on wires, bands, &c., Producing and protecting. E. W. Küttner. No. 1,137,986; May 4; Gaz. vol. 214; p. 92.
- Insulating devices, Making. R. D. Mershon. No. 1,164,739; Dec. 21; Gaz. vol. 221; p. 786.
- Insulating fabric. C. E. Skinner. No. 1,161,989; Nov. 30; Gaz. vol. 220; p. 1437.
- Insulating-felt. A. M. Ehret. No. 1,148,447; July 27; Gaz. vol. 216; p. 1284.
- Insulating-head. C. L. Van Ness. No. 1,154,674; Sept. 28; Gaz. vol. 218; p. 912.
- Insulating-joint. C. Wirt. No. 1,164,971; Dec. 21; Gaz. vol. 221; p. 868.
- Insulating material. C. M. Abbott. No. 1,126,157; Jan. 26; Gaz. vol. 210; p. 1157.
- Insulating material. F. Bölling. No. 1,123,985; Jan. 5; Gaz. vol. 210; p. 267.
- Insulating material. C. M. Clarke. No. 1,128,759; Dec. 21; Gaz. vol. 211; p. 820.
- Insulating material. J. Ferla. No. 1,165,164; Dec. 21; Gaz. vol. 221; p. 936.
- Insulating material. H. B. MacFarland and R. J. Shoemaker. No. 1,146,189; July 13; Gaz. vol. 216; p. 445.
- Insulating material, Composite. H. B. MacFarland and R. G. Shoemaker. No. 1,139,305; May 11; Gaz. vol. 214; p. 593.
- Insulating material for building and analogous purposes. J. De Long and J. B. D'Homergue. No. 1,152,798; Sept. 7; Gaz. vol. 218; p. 153.
- Insulating material, Manufacturing. W. J. Longmore. No. 1,138,676; May 11; Gaz. vol. 214; p. 372.
- Insulating material, Producing. H. B. MacFarland and R. J. Shoemaker. No. 1,146,190; July 13; Gaz. vol. 216; p. 445.
- Insulating rail-joints, Means for. B. G. Braine. (Reissue.) No. 13,994; Oct. 19; Gaz. vol. 219; p. 870.
- Insulating rail-joints, Means for. E. F. Schermerhorn. No. 1,164,020; Dec. 14; Gaz. vol. 221; p. 495.
- Insulating-sheets, Machine for forming cementitious. J. E. Lappen. No. 1,140,601; May 25; Gaz. vol. 214; p. 1122.
- Insulating-sheets, Machine for making fiber. J. E. Lappen. No. 1,139,983; May 18; Gaz. vol. 214; p. 869.
- Insulating structure. F. W. Harris. No. 1,129,486; Feb. 23; Gaz. vol. 211; p. 1113.
- Insulating-support for high-tension conductors. L. Steinberger. No. 1,160,544; Nov. 16; Gaz. vol. 220; p. 836.
- Insulating system. C. J. Trucano. No. 1,140,633; May 25; Gaz. vol. 214; p. 1133.
- Insulating-tube. E. F. Callender. No. 1,158,105; Oct. 26; Gaz. vol. 219; p. 1091.
- Insulating-tube. A. B. Reynders. No. 1,159,798; Nov. 9; Gaz. vol. 220; p. 521.
- Insulating-tube machine. C. L. Fortescue. No. 1,137,853; May 4; Gaz. vol. 214; p. 45.
- Insulating wire. O. T. Hungerford. No. 1,157,694; Oct. 26; Gaz. vol. 219; p. 947.
- Insulation-cutter. L. Genin. No. 1,157,214; Oct. 19; Gaz. vol. 219; p. 715.
- Insulation, Device for locating faults in line-conductor. S. D. Sprong. No. 1,130,036; Mar. 2; Gaz. vol. 212; p. 68.
- Insulation for rail-joints, Interlocked. B. G. Braine and J. G. Delfox. No. 1,133,921; Mar. 30; Gaz. vol. 212; p. 1600.
- Insulation for rail-joints, Renewable. L. F. and B. G. Braine. No. 1,133,920; Mar. 30; Gaz. vol. 212; p. 1600.
- Insulation, Producing mica. J. R. Sanborn. No. 1,138,691; May 11; Gaz. vol. 214; p. 377.
- Insulation, thermal or otherwise, Retaining-batten for. H. H. Schroyer. No. 1,137,793; May 4; Gaz. vol. 214; p. 25.
- Insulator. R. Ballet. No. 1,149,017; Aug. 3; Gaz. vol. 217; p. 189.
- Insulator. T. W. Beatty. No. 1,139,748; May 18; Gaz. vol. 214; p. 786.
- Insulator. J. D. E. Duncan. No. 1,128,424; Feb. 16; Gaz. vol. 211; p. 705.
- Insulator. G. Faccioli. No. 1,160,702; Nov. 16; Gaz. vol. 220; p. 895.
- Insulator. E. D. Harris. No. 1,151,179; Aug. 24; Gaz. vol. 217; p. 1174.
- Insulator. C. W. Kettron. No. 1,127,776; Feb. 9; Gaz. vol. 211; p. 430.
- Insulator. F. M. Locke. No. 1,127,044; Feb. 2; Gaz. vol. 211; p. 135.
- Insulator. R. A. Manwaring and J. T. Hessel. No. 1,140,050; May 18; Gaz. vol. 214; p. 894.
- Insulator. Z. W. Neely and G. A. Lewis. No. 1,150,697; Aug. 17; Gaz. vol. 217; p. 951.
- Insulator. W. H. Nichols. No. 1,144,153; June 22; Gaz. vol. 215; p. 1174.
- Insulator. F. M. Spicer. No. 1,161,080; Nov. 23; Gaz. vol. 220; p. 1071.
- Insulator. L. Stahl. No. 1,163,114; Dec. 7; Gaz. vol. 221; p. 132.
- Insulator. L. Steinberger. No. 1,143,149; June 15; Gaz. vol. 215; p. 799.
- Insulator. L. Steinberger. No. 1,156,442; Oct. 12; Gaz. vol. 219; p. 414.
- Insulator. L. Steinberger. No. 1,166,391; Dec. 28; Gaz. vol. 221; p. 1408.
- Insulator. L. Steinberger. No. 1,166,392; Dec. 28; Gaz. vol. 221; p. 1408.
- Insulator. L. Steinberger. No. 1,166,393; Dec. 28; Gaz. vol. 221; p. 1409.
- Insulator-bracket. F. A. Bowdle. No. 1,139,950; May 18; Gaz. vol. 214; p. 857.
- Insulator, Cable-supporting. E. O. Sessions. No. 1,125,742; Jan. 19; Gaz. vol. 210; p. 977.
- Insulator-clamp. W. S. Lee. No. 1,140,603; May 25; Gaz. vol. 214; p. 1123.
- Insulator clamp or bracket. J. Zieg. No. 1,147,065; July 20; Gaz. vol. 216; p. 772.
- Insulator-die. C. V. Bennett. No. 1,157,612; Oct. 19; Gaz. vol. 219; p. 852.
- Insulator, Disk strain-. L. Steinberger. No. 1,160,546; Nov. 16; Gaz. vol. 220; p. 836.
- Insulator, Divided. E. H. Freeman. No. 1,147,498; July 20; Gaz. vol. 216; p. 924.
- Insulator, Electric. A. R. Müller. No. 1,159,409; Nov. 9; Gaz. vol. 220; p. 380.
- Insulator, Electric-wire. S. Nunn. No. 1,146,201; July 13; Gaz. vol. 216; p. 449.
- Insulator, Electrical. K. C. Randall, S. W. Farnsworth, and C. L. Fortescue. No. 1,129,521; Feb. 23; Gaz. vol. 211; p. 1125.

Alphabetical list of inventions—Continued.

- Insulator for coffee and tea pot handles. C. Webster. No. 1,128,827; Feb. 16; Gaz. vol. 211; p. 845.
- Insulator for overhead conductors of electric lines. F. Libano. No. 1,156,089; Oct. 12; Gaz. vol. 219; p. 292.
- Insulator, Fused test clamp-. G. Wheale. No. 1,144,672; June 29; Gaz. vol. 215; p. 1380.
- Insulator, High-voltage strain-. L. Steinberger. No. 1,160,543; Nov. 16; Gaz. vol. 220; p. 835.
- Insulator, Joint-. C. O. Burton. No. 1,159,567; Nov. 9; Gaz. vol. 220; p. 436.
- Insulator-pin. C. G. Ette. No. 1,163,132; Dec. 7; Gaz. vol. 221; p. 138.
- Insulator, Spool-type-disk strain-. L. Steinberger. No. 1,166,394; Dec. 28; Gaz. vol. 221; p. 1409.
- Insulator-support. G. Mardock. No. 1,127,474; Feb. 9; Gaz. vol. 211; p. 325.
- Insulator-support. O. P. Megahan. No. 1,123,342; Jan. 5; Gaz. vol. 210; p. 51.
- Insulator-support. C. E. Miller. No. 1,143,983; June 22; Gaz. vol. 215; p. 1112.
- Insulator-support. C. L. Peirce, Jr. No. 1,158,149; Oct. 26; Gaz. vol. 219; p. 1105.
- Insulator-supporting fixture. C. L. Peirce, Jr. No. 1,149,282; Aug. 10; Gaz. vol. 217; p. 386.
- Insulator-supporting fixture. C. L. Peirce, Jr. No. 1,157,036; Oct. 19; Gaz. vol. 219; p. 653.
- Insulator-supporting structure. C. L. Peirce, Jr. No. 1,157,037; Oct. 19; Gaz. vol. 219; p. 653.
- Insulator-supporting structure. C. P. Seyler. No. 1,147,757; July 27; Gaz. vol. 216; p. 1040.
- Insulator switch, Mine section. G. H. Bolus. No. 1,129,062; Feb. 23; Gaz. vol. 211; p. 963.
- Insulators for high-potential electric conductors, Manufacture of. F. M. Locke. No. 1,156,163; Oct. 12; Gaz. vol. 219; p. 317.
- Insulators, Manufacture of high-potential porcelain and glass. F. M. Locke. No. 1,127,042; Feb. 2; Gaz. vol. 211; p. 134.
- Insulators, Manufacturing porcelain. W. Boehm. No. 1,128,747; Feb. 16; Gaz. vol. 211; p. 816.
- Insulators, Press for making glass. F. N. Roehrich. No. 1,136,275; Apr. 20; Gaz. vol. 213; p. 858.
- Intaglio-plate-cleaning device. H. A. W. Wood. No. 1,138,342; May 4; Gaz. vol. 214; p. 219.
- Interchangeable portable light. J. Achberger. No. 1,143,604; June 22; Gaz. vol. 215; p. 983.
- Interest-bearing instrument of obligation. C. M. Faithfull. No. 1,141,452; June 1; Gaz. vol. 215; p. 131.
- Interference-preventer. T. B. Miller. No. 1,127,368; Feb. 2; Gaz. vol. 211; p. 244.
- Interlocking floor and panel. A. Woloshin. No. 1,149,708; Aug. 10; Gaz. vol. 217; p. 540.
- Interlocking spring-tube, Flexible. L. A. Subers. No. 1,133,070; Mar. 23; Gaz. vol. 212; p. 1263.
- Internal-combustion engine. H. L. Anstey. No. 1,124,581; Jan. 12; Gaz. vol. 210; p. 527.
- Internal-combustion engine. H. J. Bachman. No. 1,155,699; Oct. 5; Gaz. vol. 219; p. 130.
- Internal-combustion engine. W. Backman. No. 1,138,271; May 4; Gaz. vol. 214; p. 192.
- Internal-combustion engine. C. E. Baker and E. M. De Long. No. 1,138,831; May 11; Gaz. vol. 214; p. 429.
- Internal-combustion engine. F. E. Baker. No. 1,132,425; Mar. 16; Gaz. vol. 212; p. 977.
- Internal-combustion engine. R. J. Balz. No. 1,154,958; Sept. 28; Gaz. vol. 218; p. 1006.
- Internal-combustion engine. G. J. Baumstark. No. 1,151,855; Aug. 31; Gaz. vol. 217; p. 1452.
- Internal-combustion engine. J. Bayne. No. 1,133,458; Mar. 30; Gaz. vol. 212; p. 1435.
- Internal-combustion engine. L. H. L. Bellem and G. J. Brégeras. No. 1,157,287; Oct. 19; Gaz. vol. 219; p. 742.
- Internal-combustion engine. J. L. Bennett and O. C. Sevebeck. No. 1,150,411; Aug. 17; Gaz. vol. 217; p. 852.
- Internal-combustion engine. J. E. Bissell. No. 1,134,097; Apr. 6; Gaz. vol. 213; p. 6.
- Internal-combustion engine. F. E. Black. No. 1,144,582; June 29; Gaz. vol. 215; p. 1349.
- Internal-combustion engine. C. M. Blanchard. No. 1,124,837; Jan. 12; Gaz. vol. 210; p. 619.
- Internal-combustion engine. R. A. Blume. No. 1,154,366; Sept. 21; Gaz. vol. 218; p. 778.
- Internal-combustion engine. E. C. Bowen. No. 1,161,833; Nov. 30; Gaz. vol. 220; p. 1382.
- Internal-combustion engine. C. M. Bradley. No. 1,153,191; Sept. 14; Gaz. vol. 218; p. 329.
- Internal-combustion engine. W. L. Breath. No. 1,133,531; Mar. 30; Gaz. vol. 212; p. 1463.
- Internal-combustion engine. J. F. Brice. No. 1,149,178; Aug. 10; Gaz. vol. 217; p. 347.
- Internal-combustion engine. J. F. Brice. No. 1,149,179; Aug. 10; Gaz. vol. 217; p. 348.
- Internal-combustion engine. A. L., A. J. G., and J. L. Bricknell. No. 1,155,335; Oct. 5; Gaz. vol. 219; p. 4.
- Internal-combustion engine. A. O. Brooke. No. 1,134,667; Apr. 6; Gaz. vol. 213; p. 214.
- Internal-combustion engine. T. P. Brooke. No. 1,139,336; May 11; Gaz. vol. 214; p. 604.
- Internal-combustion engine. G. W. Brooks. No. 1,130,060; Mar. 2; Gaz. vol. 212; p. 76.
- Internal-combustion engine. E. S. Brower. No. 1,126,950; Feb. 2; Gaz. vol. 211; p. 99.
- Internal-combustion engine. E. S. Brower. No. 1,146,782; July 20; Gaz. vol. 216; p. 672.
- Internal-combustion engine. J. B. Brown. No. 1,148,571; Aug. 3; Gaz. vol. 217; p. 32.
- Internal-combustion engine. J. B. Brown. No. 1,148,657; Aug. 3; Gaz. vol. 217; p. 63.
- Internal-combustion engine. W. J. Brown. No. 1,144,105; June 22; Gaz. vol. 215; p. 1157.
- Internal-combustion engine. F. W. Bukoviny. No. 1,124,850; Jan. 12; Gaz. vol. 210; p. 623.
- Internal-combustion engine. C. F. Buschke. No. 1,148,286; July 27; Gaz. vol. 216; p. 1228.
- Internal-combustion engine. F. D. Calkins and A. C. Johnson. No. 1,134,726; Apr. 6; Gaz. vol. 213; p. 235.
- Internal-combustion engine. F. D. Calkins and A. C. Johnson. No. 1,156,663; Oct. 12; Gaz. vol. 219; p. 493.
- Internal-combustion engine. E. Canedy. No. 1,156,886; Oct. 19; Gaz. vol. 219; p. 598.
- Internal-combustion engine. W. C. Carter. No. 1,127,590; Feb. 9; Gaz. vol. 211; p. 363.
- Internal-combustion engine. H. C. Chase. No. 1,129,957; Mar. 2; Gaz. vol. 212; p. 42.
- Internal-combustion engine. E. S. Church. No. 1,133,007; Mar. 23; Gaz. vol. 212; p. 1240.
- Internal-combustion engine. H. C. Cleaver. No. 1,144,027; June 22; Gaz. vol. 215; p. 1129.
- Internal-combustion engine. O. J. Cole. No. 1,154,844; Sept. 28; Gaz. vol. 218; p. 967.
- Internal-combustion engine. A. G. Colley. No. 1,165,494; Dec. 28; Gaz. vol. 221; p. 1089.
- Internal-combustion engine. E. J. Conill. No. 1,151,568; Aug. 31; Gaz. vol. 217; p. 1352.
- Internal-combustion engine. W. M. Cusick. No. 1,142,312; June 8; Gaz. vol. 215; p. 467.
- Internal-combustion engine. A. H. De Gaston and F. McLean. No. 1,155,709; Oct. 5; Gaz. vol. 219; p. 134.
- Internal-combustion engine. A. H. De Gaston and F. McLean. No. 1,160,697; Nov. 16; Gaz. vol. 220; p. 893.
- Internal-combustion engine. J. Dean. No. 1,155,647; Oct. 5; Gaz. vol. 219; p. 112.
- Internal-combustion engine. F. Desort. No. 1,147,313; July 20; Gaz. vol. 216; p. 856.
- Internal-combustion engine. H. Dock. No. 1,135,365; Apr. 13; Gaz. vol. 213; p. 497.
- Internal-combustion engine. G. Dolemo and G. H. Lambert. No. 1,123,258; Jan. 5; Gaz. vol. 210; p. 19.
- Internal-combustion engine. C. E. Duryea. No. 1,128,957; Feb. 16; Gaz. vol. 211; p. 893.
- Internal-combustion engine. C. E. Duryea. No. 1,128,958; Feb. 16; Gaz. vol. 211; p. 893.
- Internal-combustion engine. E. O. Edwards. No. 1,132,708; Mar. 23; Gaz. vol. 212; p. 1129.
- Internal-combustion engine. J. K. Edwards. No. 1,142,508; June 8; Gaz. vol. 215; p. 538.
- Internal-combustion engine. G. Enrico. No. 1,161,464; Nov. 23; Gaz. vol. 220; p. 1209.
- Internal-combustion engine. E. F. Entwisle. No. 1,126,738; Feb. 2; Gaz. vol. 211; p. 26.
- Internal-combustion engine. K. Evers. No. 1,157,932; Oct. 26; Gaz. vol. 219; p. 1029.
- Internal-combustion engine. T. J. Fay. No. 1,142,949; June 15; Gaz. vol. 215; p. 729.
- Internal-combustion engine. E. A. Ford. No. 1,165,086; Dec. 21; Gaz. vol. 221; p. 907.
- Internal-combustion engine. R. M. Fryer. No. 1,128,125; Feb. 9; Gaz. vol. 211; p. 553.
- Internal-combustion engine. E. B. Galbreath and C. O. Guernsey. No. 1,124,721; Jan. 12; Gaz. vol. 210; p. 577.
- Internal-combustion engine. W. F. Gibbs. No. 1,157,379; Oct. 19; Gaz. vol. 219; p. 774.
- Internal-combustion engine. A. H. C. Gibson. No. 1,146,864; July 20; Gaz. vol. 216; p. 700.
- Internal-combustion engine. C. S. Goby. No. 1,133,852; Mar. 30; Gaz. vol. 212; p. 1578.
- Internal-combustion engine. C. W. Gooding, Jr. No. 1,163,142; Dec. 7; Gaz. vol. 221; p. 141.
- Internal-combustion engine. L. F. Goodspeed. No. 1,144,653; June 29; Gaz. vol. 215; p. 1373.
- Internal-combustion engine. J. Gunther. No. 1,162,769; Dec. 7; Gaz. vol. 221; p. 13.
- Internal-combustion engine. W. J. Harkins. No. 1,151,178; Aug. 24; Gaz. vol. 217; p. 1173.
- Internal-combustion engine. W. W. Harwood. No. 1,160,602; Nov. 16; Gaz. vol. 220; p. 856.
- Internal-combustion engine. G. W. Haury. No. 1,157,387; Oct. 19; Gaz. vol. 219; p. 778.
- Internal-combustion engine. R. M. Head. No. 1,156,075; Oct. 12; Gaz. vol. 219; p. 257.
- Internal-combustion engine. O. Heaton. No. 1,135,793; Apr. 13; Gaz. vol. 213; p. 648.
- Internal-combustion engine. K. J. E. Hesselman. No. 1,162,775; Dec. 7; Gaz. vol. 221; p. 15.
- Internal-combustion engine. E. R. Hewitt and A. F. Masury. No. 1,148,774; Aug. 3; Gaz. vol. 217; p. 105.
- Internal-combustion engine. E. and F. W. Heymann. No. 1,125,530; Jan. 19; Gaz. vol. 210; p. 900.
- Internal-combustion engine. D. H. Hornor. No. 1,149,142; Aug. 3; Gaz. vol. 217; p. 230.
- Internal-combustion engine. R. W. Ide. No. 1,163,542; Dec. 7; Gaz. vol. 221; p. 281.

Alphabetical list of inventions—Continued.

- Internal-combustion engine. G. A. Her and T. M. Nalon. No. 1,153,432; Sept. 14; Gaz. vol. 218; p. 417.
- Internal-combustion engine. M. C. Indahl. No. 1,141,711; June 1; Gaz. vol. 215; p. 221.
- Internal-combustion engine. E. A. Johnston. No. 1,129,101; Feb. 23; Gaz. vol. 211; p. 978.
- Internal-combustion engine. E. A. Johnston and C. I. Longenecker. No. 1,129,099; Feb. 23; Gaz. vol. 211; p. 977.
- Internal-combustion engine. E. A. Johnston and C. I. Longenecker. No. 1,129,100; Feb. 23; Gaz. vol. 211; p. 977.
- Internal-combustion engine. O. Johnson. No. 1,156,846; Oct. 12; Gaz. vol. 219; p. 555.
- Internal-combustion engine. R. Johnson. No. 1,137,142; Apr. 27; Gaz. vol. 213; p. 1205.
- Internal-combustion engine. G. W. Jones. No. 1,128,685; Feb. 16; Gaz. vol. 211; p. 795.
- Internal-combustion engine. F. Joswich. No. 1,139,770; May 18; Gaz. vol. 214; p. 794.
- Internal-combustion engine. H. Junkers. No. 1,127,772; Feb. 9; Gaz. vol. 211; p. 429.
- Internal-combustion engine. T. Kallanjee and A. B. Paranjape. No. 1,142,581; June 8; Gaz. vol. 215; p. 562.
- Internal-combustion engine. J. Keister. No. 1,134,867; Apr. 6; Gaz. vol. 213; p. 281.
- Internal-combustion engine. T. D. Kelly. No. 1,136,812; Apr. 20; Gaz. vol. 213; p. 1050.
- Internal-combustion engine. F. J. C. F. Knaak. No. 1,138,575; May 4; Gaz. vol. 214; p. 297.
- Internal-combustion engine. C. Y. Knight. No. 1,129,104; Feb. 23; Gaz. vol. 211; p. 979.
- Internal-combustion engine. C. Y. Knight. No. 1,136,143; Apr. 20; Gaz. vol. 213; p. 811.
- Internal-combustion engine. M. E. Knight. No. 1,132,858; Mar. 23; Gaz. vol. 212; p. 1186.
- Internal-combustion engine. W. Koelzer. No. 1,132,357; Mar. 16; Gaz. vol. 212; p. 952.
- Internal-combustion engine. J. Koenig. No. 1,127,642; Feb. 9; Gaz. vol. 211; p. 380.
- Internal-combustion engine. W. F. Koken and A. J. Pichl. No. 1,161,220; Nov. 23; Gaz. vol. 220; p. 1122.
- Internal-combustion engine. B. Krämer. No. 1,143,408; June 15; Gaz. vol. 215; p. 892.
- Internal-combustion engine. E. M. Kramer. No. 1,134,684; Apr. 6; Gaz. vol. 213; p. 219.
- Internal-combustion engine. E. M. Kramer. No. 1,134,685; Apr. 6; Gaz. vol. 213; p. 220.
- Internal-combustion engine. O. Kraus. No. 1,163,671; Dec. 14; Gaz. vol. 221; p. 371.
- Internal-combustion engine. G. A. Krohn. No. 1,156,298; Oct. 12; Gaz. vol. 219; p. 361.
- Internal-combustion engine. J. F. Kytlica. No. 1,134,623; Apr. 6; Gaz. vol. 213; p. 197.
- Internal-combustion engine. S. Lake. No. 1,128,463; Feb. 16; Gaz. vol. 211; p. 719.
- Internal-combustion engine. C. E. Latham. No. 1,159,780; Nov. 9; Gaz. vol. 220; p. 514.
- Internal-combustion engine. L. Laurin. No. 1,130,526; Mar. 2; Gaz. vol. 212; p. 241.
- Internal-combustion engine. L. Laurin. No. 1,149,655; Aug. 10; Gaz. vol. 217; p. 523.
- Internal-combustion engine. G. R. Lawrence. No. 1,160,419; Nov. 16; Gaz. vol. 220; p. 791.
- Internal-combustion engine. H. B. Layman. No. 1,144,421; June 29; Gaz. vol. 215; p. 1295.
- Internal-combustion engine. H. B. Layman. No. 1,144,422; June 29; Gaz. vol. 215; p. 1296.
- Internal-combustion engine. H. B. Layman. No. 1,144,423; June 29; Gaz. vol. 215; p. 1296.
- Internal-combustion engine. H. B. Layman. No. 1,144,424; June 29; Gaz. vol. 215; p. 1297.
- Internal-combustion engine. Y. Le Bihan. No. 1,164,454; Dec. 14; Gaz. vol. 221; p. 647.
- Internal-combustion engine. C. M. Leech. No. 1,138,876; May 11; Gaz. vol. 214; p. 445.
- Internal-combustion engine. C. S. Lindsay and D. H. Oliver. No. 1,140,384; May 25; Gaz. vol. 214; p. 1044.
- Internal-combustion engine. W. M. Lippincott. No. 1,152,424; Sept. 7; Gaz. vol. 218; p. 15.
- Internal-combustion engine. F. E. Lonas. No. 1,163,934; Dec. 14; Gaz. vol. 221; p. 466.
- Internal-combustion engine. C. C. Longard. No. 1,127,265; Feb. 2; Gaz. vol. 211; p. 211.
- Internal-combustion engine. R. H. McCarthy. No. 1,154,329; Sept. 21; Gaz. vol. 218; p. 763.
- Internal-combustion engine. N. McCarty. No. 1,157,021; Oct. 19; Gaz. vol. 219; p. 647.
- Internal-combustion engine. J. J. McLean. No. 1,127,659; Feb. 9; Gaz. vol. 211; p. 385.
- Internal-combustion engine. W. J. McVicker. No. 1,146,435; July 13; Gaz. vol. 216; p. 531.
- Internal-combustion engine. H. H. Murphy. (Reissue.) No. 13,905; Apr. 27; Gaz. vol. 213; p. 1409.
- Internal-combustion engine. F. Nelson. No. 1,159,787; Nov. 9; Gaz. vol. 220; p. 517.
- Internal-combustion engine. E. C. Newcomb. No. 1,139,898; May 18; Gaz. vol. 214; p. 839.
- Internal-combustion engine. R. T. Newton and I. M. Uppercu. No. 1,125,376; Jan. 19; Gaz. vol. 210; p. 848.
- Internal-combustion engine. R. T. Newton and I. M. Uppercu. No. 1,148,118; July 27; Gaz. vol. 216; p. 1170.
- Internal-combustion engine. H. F. Obergfell. No. 1,139,364; May 11; Gaz. vol. 214; p. 614.
- Internal-combustion engine. R. H. Olandt. No. 1,155,434; Oct. 5; Gaz. vol. 219; p. 38.
- Internal-combustion engine. P. Ostenberg. No. 1,137,887; May 4; Gaz. vol. 214; p. 57.
- Internal-combustion engine. W. H. Osterman. No. 1,139,713; May 18; Gaz. vol. 214; p. 775.
- Internal-combustion engine. R. H. Owens. No. 1,150,700; Aug. 17; Gaz. vol. 217; p. 952.
- Internal-combustion engine. E. S. Palmbla. No. 1,130,014; Mar. 2; Gaz. vol. 212; p. 60.
- Internal-combustion engine. I. Perugini. No. 1,138,783; May 11; Gaz. vol. 214; p. 411.
- Internal-combustion engine. S. A. Phillips. No. 1,131,266; Mar. 9; Gaz. vol. 212; p. 528.
- Internal-combustion engine. J. Pierce. No. 1,124,512; Jan. 12; Gaz. vol. 210; p. 502.
- Internal-combustion engine. J. Pierce. No. 1,162,187; Nov. 30; Gaz. vol. 220; p. 1507.
- Internal-combustion engine. N. R. Potter. No. 1,161,335; Nov. 23; Gaz. vol. 220; p. 1163.
- Internal-combustion engine. H. T. Preble. No. 1,149,984; Aug. 10; Gaz. vol. 217; p. 610.
- Internal-combustion engine. J. M. Primm. No. 1,150,225; Aug. 17; Gaz. vol. 217; p. 787.
- Internal-combustion engine. P. Pringle. No. 1,140,394; May 25; Gaz. vol. 214; p. 1048.
- Internal-combustion engine. A. H. Ragsdale. No. 1,162,252; Nov. 30; Gaz. vol. 220; p. 1529.
- Internal-combustion engine. E. U. G. Reagan. No. 1,132,489; Mar. 16; Gaz. vol. 212; p. 1000.
- Internal-combustion engine. C. Regenbogen. No. 1,152,658; Sept. 7; Gaz. vol. 218; p. 102.
- Internal-combustion engine. H. Reiche. No. 1,142,367; June 8; Gaz. vol. 215; p. 486.
- Internal-combustion engine. H. R. Ricardo and H. A. Hetherington. No. 1,133,402; Mar. 30; Gaz. vol. 212; p. 1416.
- Internal-combustion engine. A. L. Riker. No. 1,144,433; June 29; Gaz. vol. 215; p. 1300.
- Internal-combustion engine. A. L. Riker. No. 1,156,038; Oct. 5; Gaz. vol. 219; p. 248.
- Internal-combustion engine. A. L. Riker. No. 1,164,549; Dec. 14; Gaz. vol. 221; p. 680.
- Internal-combustion engine. P. Riley. No. 1,148,052; July 27; Gaz. vol. 216; p. 1145.
- Internal-combustion engine. R. T. Robinson, Jr. No. 1,130,843; Mar. 9; Gaz. vol. 212; p. 383.
- Internal-combustion engine. J. R. Rogers. No. 1,127,810; Feb. 9; Gaz. vol. 211; p. 443.
- Internal-combustion engine. F. T. Romberger. No. 1,152,763; Sept. 7; Gaz. vol. 218; p. 140.
- Internal-combustion engine. A. Rosner. No. 1,149,986; Aug. 10; Gaz. vol. 217; p. 640.
- Internal-combustion engine. A. Rosner. No. 1,164,550; Dec. 14; Gaz. vol. 221; p. 680.
- Internal-combustion engine. J. W. Ross. No. 1,163,691; Dec. 14; Gaz. vol. 221; p. 379.
- Internal-combustion engine. A. I. Sandbo. No. 1,143,649; June 22; Gaz. vol. 215; p. 998.
- Internal-combustion engine. J. F. Sandell. No. 1,130,934; Mar. 9; Gaz. vol. 212; p. 415.
- Internal-combustion engine. W. Schmied. No. 1,141,658; June 1; Gaz. vol. 215; p. 203.
- Internal-combustion engine. H. Schmitt. No. 1,141,362; June 1; Gaz. vol. 215; p. 98.
- Internal-combustion engine. A. J. Seaman. No. 1,165,290; Dec. 21; Gaz. vol. 221; p. 979.
- Internal-combustion engine. F. A. Seitz. No. 1,165,135; Dec. 21; Gaz. vol. 221; p. 927.
- Internal-combustion engine. F. W. Severin and H. F. Bock. No. 1,123,406; Jan. 5; Gaz. vol. 210; p. 72.
- Internal-combustion engine. F. A. Sharpneck and L. O. Gilliland. No. 1,140,292; May 18; Gaz. vol. 214; p. 976.
- Internal-combustion engine. J. Shaw. No. 1,142,851; June 15; Gaz. vol. 215; p. 693.
- Internal-combustion engine. J. Shaw. No. 1,152,561; Sept. 7; Gaz. vol. 218; p. 67.
- Internal-combustion engine. L. W. Sheridan. No. 1,140,489; May 25; Gaz. vol. 214; p. 1083.
- Internal-combustion engine. W. F. Shutt. No. 1,129,023; Feb. 16; Gaz. vol. 211; p. 915.
- Internal-combustion engine. J. P. Simmons. No. 1,135,330; Apr. 13; Gaz. vol. 213; p. 485.
- Internal-combustion engine. J. T. Simpson and P. B. Taylor. No. 1,151,128; Aug. 24; Gaz. vol. 217; p. 1155.
- Internal-combustion engine. W. T. Smith. No. 1,152,336; Aug. 31; Gaz. vol. 217; p. 1636.
- Internal-combustion engine. C. L. Snyder and F. J. Pease. No. 1,131,436; Mar. 9; Gaz. vol. 212; p. 587.
- Internal-combustion engine. M. St. Clair. No. 1,145,814; July 6; Gaz. vol. 216; p. 293.
- Internal-combustion engine. R. D. Stevens. No. 1,137,296; Apr. 27; Gaz. vol. 213; p. 1262.
- Internal-combustion engine. B. F. Stewart. No. 1,146,365; July 13; Gaz. vol. 216; p. 505.

Alphabetical list of inventions—Continued.

- Internal-combustion engine. F. H. Stickney. No. 1,126,661; Jan. 26; Gaz. vol. 210; p. 1341.
- Internal-combustion engine. W. J. Still. No. 1,145,391; July 6; Gaz. vol. 216; p. 145.
- Internal-combustion engine. W. J. Still. No. 1,145,392; July 6; Gaz. vol. 216; p. 145.
- Internal-combustion engine. C. Stiriz. No. 1,128,913; Feb. 16; Gaz. vol. 211; p. 876.
- Internal-combustion engine. T. J. Sturtevant. No. 1,164,678; Dec. 21; Gaz. vol. 221; p. 764.
- Internal-combustion engine. T. L. and T. J. Sturtevant. No. 1,164,675; Dec. 21; Gaz. vol. 221; p. 765.
- Internal-combustion engine. F. H. Summeril. No. 1,145,820; July 6; Gaz. vol. 216; p. 295.
- Internal-combustion engine. I. H. Svalin. No. 1,129,316; Feb. 23; Gaz. vol. 211; p. 1052.
- Internal-combustion engine. C. H. Taylor and B. B. Neuteboom. No. 1,151,736; Aug. 31; Gaz. vol. 217; p. 1409.
- Internal-combustion engine. T. I. A. Tomasini. No. 1,128,917; Feb. 16; Gaz. vol. 211; p. 878.
- Internal-combustion engine. W. I. Twombly. No. 1,131,296; Mar. 9; Gaz. vol. 212; p. 538.
- Internal-combustion engine. D. M. Tuttle. No. 1,127,322; Feb. 2; Gaz. vol. 211; p. 229.
- Internal-combustion engine. F. H. Van Houten, Jr. No. 1,133,896; Mar. 30; Gaz. vol. 212; p. 1593.
- Internal-combustion engine. W. E. Ver Planck and L. V. Stoeltzlen. No. 1,157,914; Oct. 26; Gaz. vol. 219; p. 1023.
- Internal-combustion engine. F. E. Wade. No. 1,142,545; June 8; Gaz. vol. 215; p. 550.
- Internal-combustion engine. H. C. Waite. No. 1,135,082; Apr. 13; Gaz. vol. 213; p. 401.
- Internal-combustion engine. H. C. Waite. No. 1,135,083; Apr. 13; Gaz. vol. 213; p. 401.
- Internal-combustion engine. N. B. Wales. No. 1,156,728; Oct. 12; Gaz. vol. 219; p. 514.
- Internal-combustion engine. W. N. Walker. No. 1,130,045; Mar. 2; Gaz. vol. 212; p. 71.
- Internal-combustion engine. W. F. Warner. No. 1,153,364; Sept. 14; Gaz. vol. 218; p. 393.
- Internal-combustion engine. C. W. Weiss. No. 1,150,084; Aug. 17; Gaz. vol. 217; p. 735.
- Internal-combustion engine. H. C. Well. No. 1,125,231; Jan. 19; Gaz. vol. 210; p. 795.
- Internal-combustion engine. H. C. Well. No. 1,163,492; Dec. 7; Gaz. vol. 221; p. 264.
- Internal-combustion engine. J. F. Wentworth. No. 1,162,423; Nov. 30; Gaz. vol. 220; p. 1587.
- Internal-combustion engine. O. H. L. Wernicke. No. 1,133,771; Mar. 30; Gaz. vol. 212; p. 1548.
- Internal-combustion engine. G. Westinghouse. No. 1,161,095; Nov. 23; Gaz. vol. 220; p. 1076.
- Internal-combustion engine. D. S. Williams. No. 1,165,366; Dec. 21; Gaz. vol. 221; p. 1005.
- Internal-combustion engine. J. N. Williams. No. 1,139,617; May 18; Gaz. vol. 214; p. 740.
- Internal-combustion engine. W. Willis. No. 1,138,824; May 11; Gaz. vol. 214; p. 426.
- Internal-combustion engine. H. T. Wilson. No. 1,146,043; July 13; Gaz. vol. 216; p. 394.
- Internal-combustion engine. A. E. Winckler. No. 1,130,872; Mar. 9; Gaz. vol. 212; p. 393.
- Internal-combustion engine. E. E. Winkley. No. 1,131,099; Mar. 9; Gaz. vol. 212; p. 470.
- Internal-combustion engine. F. O. Woodland. No. 1,131,587; Mar. 9; Gaz. vol. 212; p. 638.
- Internal-combustion engine. W. Woodward. No. 1,142,074; June 8; Gaz. vol. 215; p. 384.
- Internal-combustion engine and scavenging the same. C. W. Snyder. No. 1,126,308; Jan. 26; Gaz. vol. 210; p. 1212.
- Internal-combustion engine and turbine and converting heat energy into power. Combined. C. C. Thomas. No. 1,147,280; July 20; Gaz. vol. 216; p. 845.
- Internal-combustion engine. Compound. C. M. Allen. No. 1,153,881; Sept. 21; Gaz. vol. 218; p. 610.
- Internal-combustion engine. Compound. A. Bjur. No. 1,146,840; July 20; Gaz. vol. 216; p. 692.
- Internal-combustion engine. Double-acting. A. Rigaud. No. 1,132,386; Mar. 16; Gaz. vol. 212; p. 963.
- Internal-combustion engine equipment. E. M. Kramer. No. 1,164,199; Dec. 14; Gaz. vol. 221; p. 556.
- Internal-combustion engine mixer. H. J. Podlešák. No. 1,150,224; Aug. 17; Gaz. vol. 217; p. 787.
- Internal-combustion engine. Multicylinder. A. Guéret. No. 1,164,504; Dec. 14; Gaz. vol. 221; p. 664.
- Internal-combustion engine of the horizontal type. Multicylinder. T. G. Nyborg. No. 1,161,152; Nov. 23; Gaz. vol. 220; p. 1096.
- Internal-combustion engine. Positive-scavenging two-cycle. F. J. Kimball. No. 1,165,515; Dec. 28; Gaz. vol. 221; p. 1095.
- Internal-combustion engine primer. W. C. Rentz, Jr. No. 1,150,385; Aug. 17; Gaz. vol. 217; p. 843.
- Internal-combustion engine. Reversible. H. Pokorney. No. 1,134,225; Apr. 6; Gaz. vol. 213; p. 52.
- Internal-combustion engine. Rotary-piston. C. E. Anderson and E. E. Fey. No. 1,147,838; July 27; Gaz. vol. 216; p. 1069.
- Internal-combustion engine. Rotary-valve. J. R. Coyle. No. 1,154,487; Sept. 21; Gaz. vol. 218; p. 817.
- Internal-combustion engine. Self-starting. J. A. Heany. No. 1,141,632; June 1; Gaz. vol. 215; p. 193.
- Internal-combustion engine. Self-starting. J. A. Heany. No. 1,141,633; June 1; Gaz. vol. 215; p. 194.
- Internal-combustion engine. Self-starting. J. A. Heany. No. 1,145,242; July 6; Gaz. vol. 216; p. 94.
- Internal-combustion engine. Self-starting. J. A. Heany. No. 1,163,008; Dec. 7; Gaz. vol. 221; p. 96.
- Internal-combustion engine. Self-starting and reversible. J. F. Twigg. No. 1,136,381; Apr. 20; Gaz. vol. 213; p. 896.
- Internal-combustion engine. Two-cycle. L. Atwood. No. 1,130,658; Mar. 2; Gaz. vol. 212; p. 285.
- Internal-combustion engine. Two-cycle. O. R. P. Berglund. No. 1,162,967; Dec. 7; Gaz. vol. 221; p. 81.
- Internal-combustion engine. Two-cycle valveless. D. Crayssac. No. 1,125,663; Jan. 19; Gaz. vol. 210; p. 948.
- Internal-combustion engine. Two-cylinder two-cycle. C. E. Frederickson. No. 1,162,345; Nov. 30; Gaz. vol. 220; p. 1561.
- Internal-combustion engine. Two-stroke. W. Jeffares. No. 1,157,628; Oct. 19; Gaz. vol. 219; p. 857.
- Internal-combustion engine. Two-stroke cycle. W. M. Appleton. No. 1,151,434; Aug. 24; Gaz. vol. 217; p. 1258.
- Internal-combustion engine using liquid fuel. A. M. Low. No. 1,124,157; Jan. 5; Gaz. vol. 210; p. 326.
- Internal-combustion engine. Water-cooled. F. E. Fowler, Jr. No. 1,159,918; Nov. 9; Gaz. vol. 220; p. 564.
- Internal-combustion engine with variable piston-stroke. J. Zeitlin. No. 1,160,966; Nov. 16; Gaz. vol. 220; p. 986.
- Internal-combustion engine working with coke-oven and other gases. D. Clerk. No. 1,158,179; Oct. 26; Gaz. vol. 219; p. 1116.
- Internal-combustion engines. Auxiliary air-supply for. W. E. Howes. No. 1,146,258; July 13; Gaz. vol. 216; p. 469.
- Internal-combustion engines. Faultfinder for. D. P. F. Ghadiali. No. 1,144,398; June 29; Gaz. vol. 215; p. 1459.
- Internal-combustion engines. Magneto for use on. J. A. Cole. No. 1,144,815; June 29; Gaz. vol. 215; p. 1431.
- Internal-combustion generator. I. C. Jennings. No. 1,137,328; Apr. 27; Gaz. vol. 213; p. 1273.
- Internal-combustion motor. G. B. Collier. No. 1,126,708; Feb. 2; Gaz. vol. 211; p. 14.
- Internal-combustion motor. F. O. Farwell. No. 1,155,138; Sept. 28; Gaz. vol. 218; p. 1070.
- Internal-combustion motor. W. Froehlich. No. 1,154,303; Sept. 21; Gaz. vol. 218; p. 754.
- Internal-combustion motor. R. Gordon and B. H. Weston. No. 1,136,121; Apr. 20; Gaz. vol. 213; p. 503.
- Internal-combustion motor. G. L. Griffith. No. 1,131,369; Mar. 9; Gaz. vol. 212; p. 563.
- Internal-combustion motor. R. Huff. No. 1,129,393; Feb. 23; Gaz. vol. 211; p. 1080.
- Internal-combustion motor. M. O. Kasson. No. 1,152,024; Aug. 31; Gaz. vol. 217; p. 1509.
- Internal-combustion motor. S. Logan. No. 1,135,942; Apr. 13; Gaz. vol. 213; p. 699.
- Internal-combustion motor. S. Logan. No. 1,135,943; Apr. 13; Gaz. vol. 213; p. 699.
- Internal-combustion motor. E. C. Long. No. 1,146,630; July 13; Gaz. vol. 216; p. 601.
- Internal-combustion motor. E. C. Long. No. 1,165,522; Dec. 28; Gaz. vol. 221; p. 1098.
- Internal-combustion motor. D. J. McKinnon. No. 1,149,380; Aug. 10; Gaz. vol. 217; p. 422.
- Internal-combustion motor. O. E. Michaud. No. 1,132,278; Mar. 16; Gaz. vol. 212; p. 925.
- Internal-combustion motor. C. Momo. No. 1,160,940; Nov. 16; Gaz. vol. 220; p. 977.
- Internal-combustion motor. Balanced. E. A. Ford. No. 1,149,433; Aug. 10; Gaz. vol. 217; p. 441.
- Internal combustion or explosion engine. K. Nicoll. No. 1,146,440; July 13; Gaz. vol. 216; p. 534.
- Internal combustion or explosive engine. R. T. Newton and I. M. Uppercu. No. 1,125,375; Jan. 19; Gaz. vol. 210; p. 847.
- Internal-combustion pumping-engine. G. A. Jones. No. 1,135,587; Apr. 13; Gaz. vol. 213; p. 576.
- Internal-combustion turbine-engine. A. W. H. Grieve. No. 1,150,361; Aug. 17; Gaz. vol. 217; p. 834.
- Internal-combustion turbine-engine. P. Ostenberg. No. 1,125,157; Jan. 19; Gaz. vol. 210; p. 767.
- Internal-explosion engine. E. H. Belden. No. 1,126,356; Jan. 26; Gaz. vol. 210; p. 1230.
- Internal-explosion engine. C. A. Breitung. No. 1,147,370; July 20; Gaz. vol. 216; p. 878.
- Interrupter. C. Hartmann. No. 1,149,980; Aug. 10; Gaz. vol. 217; p. 639.
- Interval-demand indicating mechanism. J. W. Bard. No. 1,133,455; Mar. 30; Gaz. vol. 212; p. 1434.
- Invalid-chair. J. Luha. No. 1,155,588; Oct. 5; Gaz. vol. 219; p. 91.
- Invalid-cushion. J. A. Clemens. No. 1,156,523; Oct. 12; Gaz. vol. 219; p. 442.

- Invalid's reading-stand. J. Urbanek. No. 1,146,216; July 13; Gaz. vol. 216; p. 455.
- Iris-diaphragm. R. Klein and T. Brueck. No. 1,153,319; Sept. 14; Gaz. vol. 218; p. 374.
- Iris-diaphragm. M. E. Smith. No. 1,161,739; Nov. 23; Gaz. vol. 220; p. 1303.
- Iron: See—**
- | | |
|----------------------|--------------------|
| Angle-iron. | Gas-iron. |
| Branding-iron. | Gas-heated iron. |
| Carry-iron. | Golf-iron. |
| Curling-iron. | Laundry-iron. |
| Draw-bar carry-iron. | Sad-iron. |
| Electric iron. | Scenery stop-iron. |
| Electric sad-iron. | Self-heating iron. |
| Flat-iron. | Soldering-iron. |
- Iron and carbohydrates, Forming compounds of. H. L. Marsh. No. 1,129,307; Feb. 23; Gaz. vol. 211; p. 1050.
- Iron and nickel from copper in certain ores and masses, Separating. W. Borchers and E. Thilges. No. 1,152,699; Sept. 7; Gaz. vol. 218; p. 117.
- Iron and steel, Changing the composition of. B. Ford. No. 1,156,679; Oct. 12; Gaz. vol. 219; p. 498.
- Iron and steel, Composition for coating surfaces of. R. S. Perry. No. 1,147,971; July 27; Gaz. vol. 216; p. 1115.
- Iron and steel from waste enameled articles, Modification of the method for recovering. A. de Back. No. 1,126,621; Jan. 26; Gaz. vol. 210; p. 1327.
- Iron and steel ingots, Treating. B. Talbot. No. 1,150,401; Aug. 17; Gaz. vol. 217; p. 848.
- Iron and steel, Pickling. A. F. Hoffman. No. 1,146,071; July 13; Gaz. vol. 216; p. 404.
- Iron and steel, Preventing the rusting of. D. F. Comstock. No. 1,159,748; Nov. 9; Gaz. vol. 220; p. 502.
- Iron and steel sheets with lead and lead alloys, Coating. R. Hazeltine. No. 1,161,475; Nov. 23; Gaz. vol. 220; p. 1213.
- Iron, Apparatus for cutting sectional. H. Pels. No. 1,134,903; Apr. 6; Gaz. vol. 213; p. 293.
- Iron-cord take-up, Electric. N. E. Polson and H. R. Paulson. No. 1,157,418; Oct. 19; Gaz. vol. 219; p. 789.
- Iron, Dephosphorizing pig. A. F. Pasquier. No. 1,145,506; July 6; Gaz. vol. 216; p. 186.
- Iron, Deposition of. S. O. Cowper-Coles. No. 1,127,966; Feb. 9; Gaz. vol. 211; p. 498.
- Iron for castings, Preparing. W. G. Kranz. No. 1,132,661; Mar. 23; Gaz. vol. 212; p. 1112.
- Iron from its ores, Extracting. H. Haas. No. 1,156,775; Oct. 12; Gaz. vol. 219; p. 530.
- Iron, Hardening. S. L. Brown. No. 1,140,568; May 25; Gaz. vol. 214; p. 1111.
- Iron heater and cooking utensil, Combination sad-. D. Miller. No. 1,154,714; Sept. 28; Gaz. vol. 218; p. 924.
- Iron into foods, drugs, and beverages, Introducing. H. L. Marsh. No. 1,129,306; Feb. 23; Gaz. vol. 211; p. 1049.
- Iron or steel, Carburizing. S. S. Eveland. No. 1,133,626; Mar. 30; Gaz. vol. 212; p. 1497.
- Iron or steel, Coating. R. Skemp and W. Gibson, Sr. No. 1,143,922; June 22; Gaz. vol. 215; p. 1090.
- Iron, Producing practically pure. A. P. Scott. No. 1,144,256; June 22; Gaz. vol. 215; p. 1210.
- Iron rest, Sad-. E. M. Skinner. No. 1,156,104; Oct. 12; Gaz. vol. 219; p. 298.
- Iron-stand. F. Wiener. No. 1,126,455; Apr. 20; Gaz. vol. 213; p. 924.
- Iron stand, Pressing-. E. P. McKinney. No. 1,164,108; Dec. 14; Gaz. vol. 221; p. 527.
- Iron stand, Sad-. G. J. Schneider. No. 1,152,767; Sept. 7; Gaz. vol. 218; p. 141.
- Iron structure. W. Brandt. No. 1,166,399; Dec. 28; Gaz. vol. 221; p. 1411.
- Iron support, Flat-. L. Reichold. No. 1,157,961; Oct. 26; Gaz. vol. 219; p. 1040.
- Iron, Treating cast-. J. E. Johnson, Jr. No. 1,150,201; Aug. 17; Gaz. vol. 217; p. 779.
- Iron, Treatment of. A. V. Dismore. No. 1,141,530; June 1; Gaz. vol. 215; p. 158.
- Iron with aluminium, Coating. S. Uyeno. No. 1,165,920; Dec. 28; Gaz. vol. 221; p. 1237.
- Irons, &c., Stand for gas-. W. Klenner. No. 1,158,237; Oct. 26; Gaz. vol. 219; p. 1136.
- Ironer, Clothes-. T. J. Watts. No. 1,162,835; Dec. 7; Gaz. vol. 221; p. 37.
- Ironing apparatus, Collar-. J. T. Truitt. No. 1,164,238; Dec. 14; Gaz. vol. 221; p. 569.
- Ironing-board. A. W. Barber. No. 1,134,662; Apr. 6; Gaz. vol. 213; p. 212.
- Ironing-board. C. O. Brown. No. 1,153,758; Sept. 14; Gaz. vol. 218; p. 530.
- Ironing-board. J. Dionne. No. 1,135,674; Apr. 13; Gaz. vol. 213; p. 608.
- Ironing-board. F. G. Hoffine. No. 1,162,778; Dec. 7; Gaz. vol. 221; p. 16.
- Ironing-board. O. F. Hornschuch. No. 1,136,878; Apr. 20; Gaz. vol. 213; p. 1072.
- Ironing-board. F. T. Johnson. No. 1,133,145; Mar. 23; Gaz. vol. 212; p. 1289.
- Ironing-board. O. Klatt. No. 1,137,332; Apr. 27; Gaz. vol. 213; p. 1275.
- Ironing-board. C. W. Kliever. No. 1,154,031; Sept. 21; Gaz. vol. 218; p. 661.
- Ironing-board. M. M. McCullough. No. 1,157,317; Oct. 19; Gaz. vol. 219; p. 752.
- Ironing-board. O. F. Northrup. No. 1,161,407; Nov. 23; Gaz. vol. 220; p. 1190.
- Ironing-board. C. Palmer, C. O. Blee, A. A. Bowman, and A. D. Palmer. No. 1,125,876; Jan. 19; Gaz. vol. 210; p. 1022.
- Ironing-board. R. B. Palmer. No. 1,156,805; Oct. 12; Gaz. vol. 219; p. 539.
- Ironing-board. A. L. Payne. No. 1,133,661; Mar. 30; Gaz. vol. 212; p. 1511.
- Ironing-board. H. O. Pitts. No. 1,155,612; Oct. 5; Gaz. vol. 219; p. 99.
- Ironing-board. R. F. Polski. No. 1,158,279; Oct. 26; Gaz. vol. 219; p. 1151.
- Ironing-board. W. Reisert. No. 1,145,847; July 6; Gaz. vol. 216; p. 305.
- Ironing-board. E. L. Ridgway. No. 1,150,226; Aug. 17; Gaz. vol. 217; p. 788.
- Ironing-board. K. Riley and G. Timlin. No. 1,159,995; Nov. 9; Gaz. vol. 220; p. 590.
- Ironing-board. E. O. Ringland and W. F. English. No. 1,131,008; Mar. 9; Gaz. vol. 212; p. 439.
- Ironing-board. E. L. Sells. No. 1,136,445; Apr. 20; Gaz. vol. 213; p. 920.
- Ironing-board. W. W. Stewart. No. 1,132,498; Mar. 16; Gaz. vol. 212; p. 1005.
- Ironing-board. W. W. Stewart. No. 1,137,172; Apr. 27; Gaz. vol. 213; p. 1215.
- Ironing-board. C. L. Yant. No. 1,160,808; Nov. 16; Gaz. vol. 220; p. 931.
- Ironing-board and step-ladder, Combined. G. E. McLendon. No. 1,130,417; Mar. 2; Gaz. vol. 212; p. 201.
- Ironing-board and step-ladder, Combined. W. C. Nelly. No. 1,131,943; Mar. 16; Gaz. vol. 212; p. 801.
- Ironing-board and step-ladder, Combined. S. Zigzag. No. 1,150,985; Aug. 24; Gaz. vol. 217; p. 1108.
- Ironing-board attachment for kitchen-tables, Disappearing. L. Spady. No. 1,140,411; May 25; Gaz. vol. 214; p. 1054.
- Ironing-board, Cabinet. C. Linford. No. 1,134,394; Apr. 6; Gaz. vol. 213; p. 113.
- Ironing-board, Collapsible. E. Sutter. No. 1,156,643; Oct. 12; Gaz. vol. 219; p. 485.
- Ironing-board cover. F. Ross. No. 1,146,349; July 13; Gaz. vol. 216; p. 500.
- Ironing-board cover retainer. A. D. Rochau. No. 1,149,467; Aug. 10; Gaz. vol. 217; p. 452.
- Ironing-board, Foldable. I. P. Haworth. No. 1,135,895; Apr. 13; Gaz. vol. 213; p. 684.
- Ironing-board, Folding. T. M. Byrd. No. 1,155,884; Oct. 5; Gaz. vol. 219; p. 195.
- Ironing-board, Folding. C. D. Ewell and L. V. Calhoun. No. 1,158,910; Nov. 2; Gaz. vol. 220; p. 175.
- Ironing-board support. C. H. Newman. No. 1,147,538; July 20; Gaz. vol. 216; p. 937.
- Ironing-boards, tables, benches, and the like, Supporting attachment for. M. Petrie. No. 1,133,662; Mar. 30; Gaz. vol. 212; p. 1511.
- Ironing-machine. G. Binder. No. 1,129,161; Feb. 23; Gaz. vol. 211; p. 998.
- Ironing-machine. A. H. Christie. No. 1,145,117; July 6; Gaz. vol. 216; p. 51.
- Ironing-machine. A. H. Christie. No. 1,145,118; July 6; Gaz. vol. 216; p. 51.
- Ironing-machine. D. M. Cooper. No. 1,125,968; Jan. 26; Gaz. vol. 210; p. 1088.
- Ironing-machine. D. M. Cooper. No. 1,133,620; Mar. 30; Gaz. vol. 212; p. 1495.
- Ironing-machine. M. Levin. No. 1,124,477; Jan. 12; Gaz. vol. 210; p. 490.
- Ironing-machine. E. G. McKay. No. 1,165,191; Dec. 21; Gaz. vol. 221; p. 945.
- Ironing-machine. C. Rosier. No. 1,147,121; July 20; Gaz. vol. 216; p. 790.
- Ironing-machine. F. W. Smith, Jr. No. 1,145,169; July 6; Gaz. vol. 216; p. 68.
- Ironing-machine. F. W. Smith, Jr., and A. H. Christie. No. 1,145,170; July 6; Gaz. vol. 216; p. 68.
- Ironing-machine. W. Somers and S. S. Dimond. No. 1,129,314; Feb. 23; Gaz. vol. 211; p. 1052.
- Ironing-machine. D. K. Tullis. No. 1,132,290; Mar. 16; Gaz. vol. 212; p. 929.
- Ironing-machine. F. E. Warner. No. 1,145,102; July 6; Gaz. vol. 216; p. 46.
- Ironing-machine. F. E. Warner. No. 1,145,103; July 6; Gaz. vol. 216; p. 47.
- Ironing-machine. F. C. Wendell. No. 1,137,438; Apr. 27; Gaz. vol. 213; p. 1313.
- Ironing machine, Collar-. W. W. Quinn. No. 1,138,686; May 11; Gaz. vol. 214; p. 376.
- Ironing machine, Collar-. W. J. Quinn. No. 1,147,435; July 20; Gaz. vol. 216; p. 902.
- Ironing machine, Shirt-bosom-. J. F. Joubert. No. 1,158,054; Oct. 26; Gaz. vol. 219; p. 1072.
- Ironing-pad. C. J. Miller. No. 1,148,113; July 27; Gaz. vol. 216; p. 1168.
- Ironing-pad. B. Wender and J. Brunelli. No. 1,134,430; Apr. 6; Gaz. vol. 213; p. 126.
- Ironing-pad, Combination. A. Savarese. No. 1,152,553; Sept. 7; Gaz. vol. 218; p. 64.
- Ironing-press. J. G. Alber. No. 1,145,958; July 13; Gaz. vol. 213; p. 363.

Alphabetical list of inventions—Continued.

- Ironing-press. L. H. Freeman. No. 1,141,181; June 1; Gaz. vol. 215; p. 32.
- Ironing-press. S. D. Guggenheim. No. 1,141,184; June 1; Gaz. vol. 215; p. 33.
- Ironing-press. A. L. Lord and B. W. Brockett. No. 1,130,415; Mar. 2; Gaz. vol. 212; p. 200.
- Ironing-table. A. M. Springer. No. 1,132,528; Mar. 16; Gaz. vol. 212; p. 1015.
- Ironing-table and step-ladder, Combination. E. Velarde. No. 1,140,636; May 25; Gaz. vol. 214; p. 1134.
- Ironing-table and step-ladder, Combined. C. Radványi and F. Kárász. No. 1,128,720; Feb. 16; Gaz. vol. 211; p. 807.
- Ironing-table attachment. W. Hosey. No. 1,147,726; July 27; Gaz. vol. 216; p. 1030.
- Irreversible mechanism. A. Loomis. No. 1,158,698; Nov. 2; Gaz. vol. 220; p. 100.
- Irrigating apparatus. H. F. Ellis. No. 1,159,658; Nov. 9; Gaz. vol. 220; p. 468.
- Irrigating apparatus. D. D. McEarly. No. 1,124,161; Jan. 5; Gaz. vol. 210; p. 328.
- Irrigating apparatus. J. A. Norton. No. 1,150,144; Aug. 17; Gaz. vol. 217; p. 758.
- Irrigating-dams, Gate for. B. E. Gilbert. No. 1,134,327; Apr. 6; Gaz. vol. 213; p. 90.
- Irrigating device. I. C. Benson. No. 1,143,351; June 15; Gaz. vol. 215; p. 871.
- Irrigating-ditches, Apparatus for keeping fish out of. R. Matheson. No. 1,150,445; Aug. 17; Gaz. vol. 217; p. 862.
- Irrigating-machine, Hydraulic. P. J. Stalec. No. 1,156,024; Oct. 5; Gaz. vol. 219; p. 242.
- Irrigating plant. A. Andrews. No. 1,142,223; June 8; Gaz. vol. 215; p. 436.
- Irrigating system. N. A. Heacock. No. 1,130,282; Mar. 2; Gaz. vol. 212; p. 153.
- Irrigation. I. B. Naylor. No. 1,153,332; Sept. 14; Gaz. vol. 218; p. 380.
- Irrigation apparatus. W. H. Coles. No. 1,154,380; Sept. 21; Gaz. vol. 218; p. 782.
- Irrigation-canals, Automatic gate for. R. V. Meikle. No. 1,130,097; Mar. 2; Gaz. vol. 212; p. 89.
- Irrigation-pipe. I. B. Naylor. No. 1,152,901; Sept. 7; Gaz. vol. 218; p. 192.
- Irrigator-reservoir. C. W. Münecke. No. 1,127,483; Feb. 9; Gaz. vol. 211; p. 328.
- Isoprene. Production of. A. Heinemann. No. 1,159,380; Nov. 9; Gaz. vol. 220; p. 369.
- Item-indicator. C. E. Klink, C. V. Wilgus, and F. H. Bickford. No. 1,136,016; Apr. 20; Gaz. vol. 213; p. 768.
- Jack. *See—*
- | | |
|-------------------------------|-----------------------|
| Auto power-transmitting jack. | Pipe-jack. |
| Automatic jack. | Pump-jack. |
| Automobile-jack. | Pumping-jack. |
| Automobile lifting-jack. | Scaffold-jack. |
| Automobile shifting-jack. | Shoe-jack. |
| Barrel-jack. | Shoe-holding jack. |
| Boot and shoe jack. | Shoe-repairing jack. |
| Chain-pulling jack. | Shoe-supporting jack. |
| Floor-jack. | Shoemaker's jack. |
| Hermetically-sealed jar. | Spring-jack. |
| Hoisting-jack. | Timber-jack. |
| Horseshoe's jack. | Tire-saving jack. |
| Hydraulic jack. | Traversing jack. |
| Journal-jack. | Trench-jack. |
| Ladder-jack. | Vehicle-jack. |
| Lifting-jack. | Vehicle lift-jack. |
- Jack. L. F. Bonaly. No. 1,133,358; Mar. 30; Gaz. vol. 212; p. 1400.
- Jack. J. E. Camp. No. 1,136,934; Apr. 27; Gaz. vol. 213; p. 1129.
- Jack. F. Haizmann. No. 1,132,339; Mar. 16; Gaz. vol. 212; p. 947.
- Jack. H. B. Jones. No. 1,145,315; July 6; Gaz. vol. 216; p. 118.
- Jack. R. McIntosh. No. 1,124,492; Jan. 12; Gaz. vol. 210; p. 495.
- Jack. C. G. Morrison. No. 1,133,391; Mar. 30; Gaz. vol. 212; p. 1412.
- Jack. H. Pfeumer. No. 1,124,316; Jan. 12; Gaz. vol. 210; p. 431.
- Jack. H. R. Scheidler. No. 1,161,982; Nov. 30; Gaz. vol. 220; p. 1435.
- Jack. J. W. Tucker. No. 1,157,461; Oct. 19; Gaz. vol. 219; p. 803.
- Jack. L. Willour. No. 1,133,241; Mar. 23; Gaz. vol. 212; p. 1322.
- Jack. L. Willour. No. 1,153,589; Sept. 14; Gaz. vol. 218; p. 474.
- Jack. L. Willour. No. 1,161,099; Nov. 23; Gaz. vol. 220; p. 1078.
- Jack and thill-support, Combined. O. J. Faunce. No. 1,134,377; Apr. 6; Gaz. vol. 213; p. 107.
- Jack-block. G. Guild. No. 1,143,760; June 22; Gaz. vol. 215; p. 1035.
- Jack-stand. N. Bacon. No. 1,127,159; Feb. 2; Gaz. vol. 211; p. 175.
- Jacks, Rail-gripping attachment for. H. C. Quesenberry. No. 1,148,856; Aug. 3; Gaz. vol. 217; p. 133.
- Jacket and apron. B. L. Sinclair. No. 1,134,643; Apr. 6; Gaz. vol. 213; p. 205.
- Jacketed tank. W. C. Honhorst. No. 1,155,731; Oct. 5; Gaz. vol. 219; p. 142.
- Jacquard, Pattern-reversing. J. L. Patterson and L. A. Grissom. No. 1,151,817; Aug. 31; Gaz. vol. 217; p. 1439.
- Jacquards, Cylinder-hammer for. J. L. Patterson. No. 1,136,260; Apr. 20; Gaz. vol. 213; p. 853.
- Jar. *See—*
- | | |
|--------------|-----------------|
| Battery-jar. | Jelly-jar. |
| Drill-jar. | Preserving-jar. |
| Fruit-jar. | Well-drill jar. |
- Jar. E. S. Hoyt. No. 1,165,260; Dec. 21; Gaz. vol. 221; p. 969.
- Jar. O. Kiefer. No. 1,131,844; Mar. 16; Gaz. vol. 212; p. 767.
- Jar-cap. E. D. Schmitt. No. 1,163,039; Dec. 7; Gaz. vol. 221; p. 106.
- Jar-cap-sealing device. H. S. Rider. No. 1,132,121; Mar. 16; Gaz. vol. 212; p. 866.
- Jar-capping machines, Mechanism for operating sealing-heads of. E. D. Schmitt. No. 1,129,739; Feb. 23; Gaz. vol. 211; p. 1197.
- Jar-closure. W. D. Hall. No. 1,163,005; Dec. 7; Gaz. vol. 221; p. 95.
- Jar-closure. C. C. Parker. No. 1,135,713; Apr. 13; Gaz. vol. 213; p. 621.
- Jar-closure. J. L. Rollins. No. 1,124,173; Jan. 5; Gaz. vol. 210; p. 332.
- Jar-closure. L. Ruffner. No. 1,147,190; July 20; Gaz. vol. 216; p. 814.
- Jar-closure. L. F. Stout. No. 1,151,303; Aug. 24; Gaz. vol. 217; p. 1216.
- Jar-closure. J. R. Werth. No. 1,163,576; Dec. 7; Gaz. vol. 221; p. 294.
- Jar-closure and cap-extractor, Combined. W. C. Helcher. No. 1,142,427; June 8; Gaz. vol. 215; p. 509.
- Jar-closure or the like. J. C. Nichol. No. 1,153,563; Sept. 14; Gaz. vol. 218; p. 465.
- Jar-cover. I. Bell. No. 1,139,328; May 11; Gaz. vol. 214; p. 600.
- Jar-cover wrench, Fruit-. G. H. Maas. No. 1,157,632; Oct. 19; Gaz. vol. 219; p. 858.
- Jar-holder. H. E. Erickson. No. 1,162,045; Nov. 30; Gaz. vol. 220; p. 1457.
- Jar-molding machine. K. O. Dahlmeyer. No. 1,138,457; May 4; Gaz. vol. 214; p. 259.
- Jar-molding machine. W. Lewis. No. 1,157,404; Oct. 19; Gaz. vol. 219; p. 783.
- Jar-opener. S. A. Rosen. No. 1,164,119; Dec. 14; Gaz. vol. 221; p. 530.
- Jar support, Fruit-. L. E. Ostrander. No. 1,126,844; Feb. 2; Gaz. vol. 211; p. 65.
- Jars and bottles, Air-tight cover for. S. W. Pascall. No. 1,138,308; May 4; Gaz. vol. 214; p. 205.
- Jars or bottles, Glass finish for. C. Hammer. No. 1,160,598; Nov. 16; Gaz. vol. 220; p. 855.
- Jarring-machine. B. D. Fuller, J. R. and T. A. Reilly. No. 1,129,189; Feb. 23; Gaz. vol. 211; p. 1008.
- Jaw-prop. W. F. Dunlop. No. 1,143,515; June 15; Gaz. vol. 215; p. 926.
- Jaw, Work-clamping. C. M. Streeter and J. B. Heck. No. 1,125,207; Jan. 19; Gaz. vol. 210; p. 786.
- Jelly-jar and cover therefor. J. L. Kivlan. No. 1,163,547; Dec. 7; Gaz. vol. 221; p. 283.
- Jet apparatus. A. W. Fischer. No. 1,151,259; Aug. 24; Gaz. vol. 217; p. 1201.
- Jet apparatus. S. L. Kneass. No. 1,159,957; Nov. 9; Gaz. vol. 220; p. 578.
- Jet apparatus. E. Koerting. No. 1,158,239; Oct. 26; Gaz. vol. 219; p. 1137.
- Jetties, Device used in the formation of. E. E. Everett and D. F. Sheldon. No. 1,140,140; May 18; Gaz. vol. 214; p. 926.
- Jetty construction. R. D. A. Parrott. No. 1,129,719; Feb. 23; Gaz. vol. 211; p. 1190.
- Jewel-cluster setting. J. A. and E. C. Abel. No. 1,134,497; Apr. 6; Gaz. vol. 213; p. 151.
- Jeweler's polishing-wheel. W. H. Ford. No. 1,150,024; Aug. 17; Gaz. vol. 217; p. 715.
- Jeweling-tool. C. W. Miner. No. 1,130,186; Mar. 2; Gaz. vol. 212; p. 120.
- Jewelry. T. M. Obsboun. No. 1,152,340; Aug. 31; Gaz. vol. 217; p. 1619.
- Jewelry and the like, Apparatus for drying. F. P. Boland. No. 1,163,205; Dec. 7; Gaz. vol. 221; p. 165.
- Jewelry and the like in postal and other boxes, Means for fastening and retaining articles of. A. W. Stevenson. No. 1,157,733; Oct. 26; Gaz. vol. 219; p. 960.
- Jewelry, Article of. J. A. and E. C. Abel. No. 1,146,543; July 13; Gaz. vol. 216; p. 571.
- Jewelry. Barrette. H. W. Matalene. No. 1,160,741; Nov. 16; Gaz. vol. 220; p. 908.
- Jewelry-box, Spring-lid. J. R. Sundee. No. 1,161,166; Nov. 23; Gaz. vol. 220; p. 1105.
- Jewelry, Drying. F. P. Boland. No. 1,154,167; Sept. 21; Gaz. vol. 218; p. 707.
- Jewelry fabric. F. Doppenschmitt. No. 1,162,463; Nov. 30; Gaz. vol. 220; p. 1602.
- Jewelry, &c., Metallic stock for. R. Kohlhepp. No. 1,124,461; Jan. 12; Gaz. vol. 210; p. 484.

- Jewelry, pins, metallic springs, &c., Composition of matter to be used for. O. I. Metzger. No. 1,149,850; Aug. 10; Gaz. vol. 217; p. 592.
- Jewelry, Top-setting for. S. Lander. No. 1,160,723; Nov. 16; Gaz. vol. 220; p. 902.
- Jig. J. C. Amis. No. 1,146,682; July 13; Gaz. vol. 216; p. 618.
- Jig. G. H. Elmore. No. 1,132,464; Mar. 16; Gaz. vol. 212; p. 991.
- Jig. G. H. Elmore. No. 1,149,641; Aug. 10; Gaz. vol. 217; p. 518.
- Jig. J. H. Magee. No. 1,128,807; Feb. 6; Gaz. vol. 211; p. 837.
- Jig. H. E. Morton. No. 1,145,260; July 6; Gaz. vol. 216; p. 100.
- Jig. W. S. Tower and P. D. Camphuis. No. 1,159,295; Nov. 2; Gaz. vol. 220; p. 308.
- Jig-polishers, Cam-movement for. W. L. Hunter. No. 1,131,047; Mar. 30; Gaz. vol. 212; p. 1642.
- Jigs, Automatic means for controlling the operation of. W. A. Reutehuber. No. 1,143,137; June 15; Gaz. vol. 215; p. 794.
- Jigs, Discharging means for. S. V. Tench. No. 1,153,527; Sept. 14; Gaz. vol. 218; p. 451.
- Jigging apparatus. J. W. Neill. No. 1,144,494; June 29; Gaz. vol. 215; p. 1320.
- Jockey-plate. F. H. Rackle. No. 1,136,267; Apr. 20; Gaz. vol. 213; p. 856.
- Joining machine, Pliced-stay-. F. L. Anderson. No. 1,148,736; Aug. 3; Gaz. vol. 217; p. 91.
- Joint: *See—*
- | | |
|------------------------|-------------------------------|
| Adjustable joint. | Metallic-sheet joint. |
| Ankle-joint. | Pin-joint. |
| Axle-joint. | Pipe-joint. |
| Ball-and-socket joint. | Portable joint. |
| Bed-joint. | Rail-joint. |
| Bedstead-joint. | Railway-rail joint. |
| Boiler-flue joint. | Safe or vault joint. |
| Cable-armor joint. | Safety-joint. |
| Clamp-joint. | Sash-joint. |
| Corner-joint. | Separable joint. |
| Crib-joint. | Socket-joint. |
| Expansion-joint. | Splice-joint. |
| Flexible joint. | Steam-joint. |
| Frame-joint. | Stovepipe-joint. |
| Framing-joint. | Switch-joint. |
| Furniture-joint. | Swivel-joint. |
| Hinge-joint. | Toy-rail joint. |
| Hose-connection joint. | Track-joint. |
| Insulated joint. | Universal joint. |
| Insulating-joint. | Vehicle body expansion-joint. |
| Knee-joint. | Welded joint. |
| Lock-joint. | |
- Joint. F. Lambert. No. 1,155,664; Oct. 5; Gaz. vol. 219; p. 118.
- Joint. A. W. Martin. No. 1,138,496; May 4; Gaz. vol. 214; p. 272.
- Joint. C. P. Vauchain. No. 1,127,325; Feb. 2; Gaz. vol. 211; p. 231.
- Joint. H. C. Wiedeman. No. 1,161,430; Nov. 23; Gaz. vol. 220; p. 1198.
- Joint-anchor. E. C. Cordes. No. 1,165,155; Dec. 21; Gaz. vol. 221; p. 933.
- Joint-binder. E. C. Glardon. No. 1,134,378; Apr. 6; Gaz. vol. 213; p. 107.
- Joint connection. S. C. MacDowney. No. 1,165,990; Dec. 28; Gaz. vol. 221; p. 1262.
- Joint-fastener. H. P. McMillan. No. 1,124,935; Jan. 12; Gaz. vol. 210; p. 652.
- Joint for structural metal-work. E. McClure. No. 1,129,040; Feb. 16; Gaz. vol. 211; p. 921.
- Joint for tubular structures. A. Hendricks and W. P. Brockschmidt. No. 1,136,010; Apr. 20; Gaz. vol. 213; p. 766.
- Joint-locking means. F. J. Cleaver. No. 1,163,218; Dec. 7; Gaz. vol. 221; p. 169.
- Joint-marker. J. E. and L. S. Chelmo. No. 1,127,353; Feb. 2; Gaz. vol. 211; p. 240.
- Joints and castings, Forming expansion. C. F. Coda. No. 1,125,062; Jan. 19; Gaz. vol. 210; p. 733.
- Joints, Making lubricated. J. S. Leake. No. 1,155,495; Oct. 5; Gaz. vol. 219; p. 60.
- Joints of sectional collapsible cores, Closure for. J. B. Walker. No. 1,154,079; Sept. 21; Gaz. vol. 218; p. 678.
- Joints, Take-up device for. J. F. and E. S. King. No. 1,150,125; Aug. 17; Gaz. vol. 217; p. 751.
- Joiner and planer cutter-blade. E. Harrold. No. 1,150,677; Aug. 17; Gaz. vol. 217; p. 944.
- Joiner-guard. A. F. Howe. No. 1,157,109; Oct. 19; Gaz. vol. 219; p. 678.
- Joiners, Safety attachment for. C. A. Frush. No. 1,132,327; Mar. 16; Gaz. vol. 212; p. 943.
- Joining-machine. J. Cavanagh. No. 1,150,849; Aug. 24; Gaz. vol. 217; p. 1062.
- Joist-notcher. J. W. Madigan. No. 1,149,663; Aug. 10; Gaz. vol. 217; p. 525.
- Jolt ramming-machine. W. Caspary. No. 1,136,313; Apr. 20; Gaz. vol. 213; p. 871.
- Jolt ramming-machine. A. E. Oberg. No. 1,133,394; Mar. 30; Gaz. vol. 212; p. 1413.
- Jolting-machine. V. J. Conces, Sr. No. 1,165,755; Dec. 28; Gaz. vol. 221; p. 1182.
- Journal-bearing. H. Hess. No. 1,146,875; July 20; Gaz. vol. 216; p. 704.
- Journal-bearing. F. E. Long. No. 1,124,481; Jan. 12; Gaz. vol. 210; p. 492.
- Journal-bearing. O. E. Michaud. No. 1,132,279; Mar. 16; Gaz. vol. 212; p. 926.
- Journal-bearing. C. A. Parsons. No. 1,161,721; Nov. 23; Gaz. vol. 220; p. 1297.
- Journal-bearing. J. Pohl. No. 1,125,392; Jan. 19; Gaz. vol. 210; p. 853.
- Journal-bearing. F. J. Schisler. No. 1,141,835; June 1; Gaz. vol. 215; p. 261.
- Journal-bearing. H. T. Shearer. No. 1,149,299; Aug. 10; Gaz. vol. 217; p. 393.
- Journal-bearing, Dust-proof. J. P. Offerman. No. 1,131,857; Mar. 16; Gaz. vol. 212; p. 771.
- Journal-bearing, Reinforced. Babbitt. F. F. Schroder. No. 1,164,125; Dec. 14; Gaz. vol. 221; p. 532.
- Journal-bearings, Making. D. C. Sanford. No. 1,158,862; Nov. 2; Gaz. vol. 220; p. 160.
- Journal-box. J. B. Beadman and H. J. Macklin. No. 1,130,876; Mar. 9; Gaz. vol. 212; p. 394.
- Journal-box. P. Brown. No. 1,155,040; Sept. 28; Gaz. vol. 218; p. 1033.
- Journal-box. A. O. Buckius, Jr. No. 1,145,347; July 6; Gaz. vol. 216; p. 128.
- Journal-box. A. Christianson. No. 1,136,937; Apr. 27; Gaz. vol. 213; p. 1130.
- Journal-box. A. C. McCord and I. A. Randel. No. 1,132,370; Mar. 16; Gaz. vol. 212; p. 957.
- Journal-box. F. A. McGuire. No. 1,155,831; Oct. 5; Gaz. vol. 219; p. 177.
- Journal-box. M. J. Sasgen. No. 1,164,222; Dec. 14; Gaz. vol. 221; p. 564.
- Journal-box. F. H. Stoner. No. 1,145,090; July 6; Gaz. vol. 216; p. 43.
- Journal-box. W. J. Sutliff. No. 1,126,126; Jan. 26; Gaz. vol. 210; p. 1147.
- Journal-box. C. J. Thomas. No. 1,130,858; Mar. 9; Gaz. vol. 212; p. 388.
- Journal-box. A. A. Wright. No. 1,146,831; July 20; Gaz. vol. 216; p. 689.
- Journal-box brass. G. E. Hoyt. No. 1,130,602; Mar. 2; Gaz. vol. 212; p. 267.
- Journal-box, Collar-oiling. H. J. Smith. No. 1,160,663; Nov. 16; Gaz. vol. 220; p. 880.
- Journal-box-cooling device. J. D. Green. No. 1,159,762; Nov. 9; Gaz. vol. 220; p. 507.
- Journal-box lid. P. Brown. No. 1,156,880; Oct. 19; Gaz. vol. 219; p. 596.
- Journal-box, Line-shaft. F. A. Roberts. No. 1,152,550; Sept. 7; Gaz. vol. 218; p. 63.
- Journal-box lubricant device. R. Toeplitz. No. 1,164,890; Dec. 21; Gaz. vol. 221; p. 839.
- Journal-box, Pressed-steel. A. C. McCord. No. 1,149,274; Aug. 10; Gaz. vol. 217; p. 383.
- Journal-box repairs, Wheel-holder for use in. R. T. Hopkins. No. 1,158,688; Nov. 2; Gaz. vol. 220; p. 98.
- Journal-box, Roller-bearing. C. S. Lockwood. No. 1,158,817; Nov. 2; Gaz. vol. 220; p. 144.
- Journal-box-securing means. P. J. Howard. No. 1,125,540; Jan. 19; Gaz. vol. 210; p. 903.
- Journal-box, Thrust-bearing. L. C. Thompson. No. 1,141,667; June 1; Gaz. vol. 215; p. 206.
- Journal-boxes, Check-plate for. C. S. Banghart. No. 1,136,640; Apr. 20; Gaz. vol. 213; p. 988.
- Journal-boxes, Detachable equalizer wearing-plate for. G. H. Gilman. No. 1,146,493; July 13; Gaz. vol. 216; p. 554.
- Journal-boxes, Dust-guard wall for. I. A. Randel. No. 1,148,624; Aug. 3; Gaz. vol. 217; p. 51.
- Journal-jack. W. O. Parsons. No. 1,132,114; Mar. 16; Gaz. vol. 212; p. 863.
- Journal-lubricator. F. Loedige. No. 1,126,044; Jan. 26; Gaz. vol. 210; p. 1116.
- Journal-lubricator. F. Loedige. No. 1,145,028; July 6; Gaz. vol. 216; p. 19.
- Jug or cover top. C. S. Baron. No. 1,145,461; July 6; Gaz. vol. 216; p. 171.
- Juice expresser, Fruit and vegetable. J. Molina and H. Asor. No. 1,127,910; Feb. 9; Gaz. vol. 211; p. 478.
- Juice-extracting press. A. Steinbach. No. 1,128,732; Feb. 16; Gaz. vol. 211; p. 811.
- Juice-extracting press. A. Steinbach. No. 1,128,733; Feb. 16; Gaz. vol. 211; p. 811.
- Juice-extractor. F. M. Day. No. 1,159,187; Nov. 2; Gaz. vol. 220; p. 270.
- Juice extractor, Lime. R. L. Wallace. No. 1,129,254; Feb. 23; Gaz. vol. 211; p. 1031.
- Juices and compressing vessels for receiving the fruit and the juice, Apparatus for use in extracting fruit-. H. A. Keller. No. 1,130,519; Mar. 2; Gaz. vol. 212; p. 239.
- Junction-board. H. and R. Hodgson and J. Glazbrook. No. 1,139,764; May 18; Gaz. vol. 214; p. 792.
- Junction-box. C. W. Davis. No. 1,130,482; Mar. 2; Gaz. vol. 212; p. 225.
- Junction-box. S. A. Huntington. No. 1,154,773; Sept. 28; Gaz. vol. 218; p. 944.
- Junction-box. T. E. Murray. No. 1,132,672; Mar. 23; Gaz. vol. 212; p. 1116.
- Junction-box. T. E. Murray. No. 1,132,673; Mar. 23; Gaz. vol. 212; p. 1116.

Alphabetical list of inventions—Continued.

- Junction-box. P. J. Wittenberg. No. 1,144,517; June 29; Gaz. vol. 215; p. 1327.
- Junction-box and reflector-casing, Combined. P. M. Hotchkiss. No. 1,134,133; Apr. 6; Gaz. vol. 213; p. 18.
- Junction-box and switch. F. A. Culver. No. 1,165,572; Dec. 28; Gaz. vol. 221; p. 1115.
- Junction or terminal block. H. Small. No. 1,149,599; Aug. 10; Gaz. vol. 217; p. 499.
- Keg or barrel, Fiber. J. C. Heron and W. J. Clark. No. 1,154,699; Sept. 28; Gaz. vol. 218; p. 919.
- Keg or container. F. A. Schaum and E. F. Wales. No. 1,125,735; Jan. 19; Gaz. vol. 210; p. 975.
- Keg-packing machine, Nail-. J. S. Phifer. No. 1,163,107; Dec. 7; Gaz. vol. 21; p. 130.
- Keg-soaking apparatus. R. Troehler. No. 1,128,825; Feb. 16; Gaz. vol. 211; p. 844.
- Kerosene-burner. F. J. Johnson. No. 1,124,026; Jan. 5; Gaz. vol. 210; p. 281.
- Kerosene-burner. W. D. Patton. No. 1,161,327; Nov. 23; Gaz. vol. 220; p. 1161.
- Kerosene or the like for use in hydrocarbon-engines, Means for treating. J. H. Holloway. No. 1,160,897; Nov. 16; Gaz. vol. 220; p. 961.
- Kerosene-vaporizer and gas-generator. J. C. Winans and H. Kelley. No. 1,150,725; Aug. 17; Gaz. vol. 217; p. 960.
- Kettle. P. H. Schluter. No. 1,162,108; Nov. 30; Gaz. vol. 220; p. 1480.
- Kettle attachment. J. A. Brocken. No. 1,151,158; Aug. 24; Gaz. vol. 217; p. 1167.
- Kettle-cover. W. E. Newsom. No. 1,126,066; Jan. 26; Gaz. vol. 210; p. 1125.
- Kettle cover, Tea-. F. H. Westbury. No. 1,147,472; July 20; Gaz. vol. 216; p. 915.
- Kettle-leg. A. Neumann. No. 1,165,116; Dec. 21; Gaz. vol. 221; p. 919.
- Kettle, Melting-. P. G. Hollstein. No. 1,154,772; Sept. 28; Gaz. vol. 218; p. 943.
- Kettle-support. W. C. Ledbetter. No. 1,142,587; June 8; Gaz. vol. 215; p. 565.
- Kettle, Tea and other spout-provided. L. Moneuse. No. 1,137,515; Apr. 27; Gaz. vol. 213; p. 1339.
- Kettles, Punching and forming device for. P. Malwurm. No. 1,144,662; June 29; Gaz. vol. 215; p. 1375.
- Key: See—
- Bung-key. Stop-box key.
- Cotter-key. Switch-key.
- Lock-key. Telephone-key.
- Piano-key. Type-writing-machine key.
- Split key.
- Key. E. P. Baird. No. 1,161,760; Nov. 23; Gaz. vol. 220; p. 1310.
- Key. F. P. Gates. No. 1,160,064; Nov. 9; Gaz. vol. 220; p. 612.
- Key. J. S. Isidor. No. 1,127,770; Feb. 9; Gaz. vol. 211; p. 428.
- Key. C. W. Pettigrove. No. 1,155,268; Sept. 28; Gaz. vol. 218; p. 1111.
- Key-case, Pocket. A. C. McFarland. No. 1,138,768; May 11; Gaz. vol. 214; p. 405.
- Key-changeable lock. B. Klohs. No. 1,125,343; Jan. 19; Gaz. vol. 210; p. 835.
- Key-cutting machine. O. M. Engelbert. No. 1,135,676; Apr. 13; Gaz. vol. 213; p. 609.
- Key-cutting machine. A. E. Sutliff. No. 1,156,642; Oct. 12; Gaz. vol. 219; p. 484.
- Key-duplicating machine. E. Hoernel. No. 1,165,099; Dec. 21; Gaz. vol. 221; p. 912.
- Key extracting or removing tool. L. Golly. No. 1,155,721; Oct. 5; Gaz. vol. 219; p. 138.
- Key-fastener. J. A. Glowinski and E. Sladek. No. 1,146,423; July 13; Gaz. vol. 216; p. 527.
- Key-fastener. J. F. Powell. No. 1,162,647; Nov. 30; Gaz. vol. 220; p. 1660.
- Key-fastener. G. H. Townsend. No. 1,151,738; Aug. 31; Gaz. vol. 217; p. 1409.
- Key-holder. N. D. Nichols. No. 1,148,398; July 27; Gaz. vol. 216; p. 1263.
- Key-holder. D. W. Putnam. No. 1,139,370; May 11; Gaz. vol. 214; p. 616.
- Key-holder. R. R. Ringer. No. 1,161,529; Nov. 23; Gaz. vol. 220; p. 1232.
- Key-hook. J. W. Minnich. No. 1,146,641; July 13; Gaz. vol. 216; p. 605.
- Key-lock. E. W. Marvel. No. 1,166,380; Dec. 28; Gaz. vol. 221; p. 1404.
- Key-lock. E. W. Marvel. No. 1,166,381; Dec. 28; Gaz. vol. 221; p. 1404.
- Key-lock, Changeable-combination. E. W. Marvel. No. 1,145,870; July 6; Gaz. vol. 216; p. 313.
- Key lock, Double-. A. Re. No. 1,134,907; Apr. 6; Gaz. vol. 213; p. 294.
- Key lock, Interchangeable-. E. E. Watson. No. 1,136,067; Apr. 20; Gaz. vol. 213; p. 784.
- Key lock, Interchangeable-. E. E. Watson. No. 1,137,436; Apr. 27; Gaz. vol. 213; p. 1313.
- Key-operated lock. C. Domenico. No. 1,133,943; Mar. 30; Gaz. vol. 212; p. 1608.
- Key-plug. C. A. Dillon. No. 1,137,466; Apr. 27; Gaz. vol. 213; p. 1322.
- Key-remover. F. C. Stuckel. No. 1,152,130; Aug. 31; Gaz. vol. 217; p. 1546.
- Key removing or pulling tool. L. Golly. No. 1,155,720; Oct. 5; Gaz. vol. 219; p. 137.
- Key-ring. J. F. Killion. No. 1,165,882; Dec. 28; Gaz. vol. 221; p. 1224.
- Key-ring. H. L. Vaughan. No. 1,162,955; Dec. 7; Gaz. vol. 221; p. 77.
- Key-ring and napkin-holder, Combined. E. G. Kohl. No. 1,132,859; Mar. 23; Gaz. vol. 212; p. 1186.
- Key-rings, Connector for flexible. R. D. Knight. No. 1,127,022; Feb. 2; Gaz. vol. 211; p. 127.
- Key-seat-broaching machine. F. J. Lapointe. No. 1,137,218; Apr. 27; Gaz. vol. 213; p. 1232.
- Key-seats in shafting, Machine for cutting. J. L. Kunz. No. 1,151,020; Aug. 24; Gaz. vol. 217; p. 1119.
- Key-seating machine. C. Hacking. No. 1,132,179; Mar. 16; Gaz. vol. 212; p. 887.
- Keyboard. J. H. Hotson. No. 1,146,570; July 13; Gaz. vol. 216; p. 580.
- Keyboard. C. Sulfer. No. 1,135,553; Apr. 13; Gaz. vol. 213; p. 564.
- Keyboard-machine. A. Steiner. No. 1,153,582; Sept. 14; Gaz. vol. 218; p. 471.
- Keyboard, Practice-. A. J. Daniel. No. 1,125,268; Jan. 19; Gaz. vol. 210; p. 808.
- Keyboard, Transposing-. J. H. Rymer. No. 1,146,104; July 13; Gaz. vol. 216; p. 415.
- Keyhole-guard. P. Cormier. No. 1,133,104; Mar. 23; Gaz. vol. 212; p. 1274.
- Keyhole-guard. T. E. Dunlap. No. 1,140,258; May 18; Gaz. vol. 214; p. 965.
- Keyhole-guard. P. F. Struppler. No. 1,132,696; Mar. 23; Gaz. vol. 212; p. 1125.
- Keyless lock. S. A. Blazek. No. 1,157,837; Oct. 26; Gaz. vol. 219; p. 995.
- Keyless lock. M. B. Brand. No. 1,151,242; Aug. 24; Gaz. vol. 217; p. 1196.
- Keyless lock. E. Johnson. No. 1,150,603; Aug. 17; Gaz. vol. 217; p. 918.
- Keyless lock. S. Kukta. No. 1,125,696; Jan. 19; Gaz. vol. 210; p. 961.
- Kiln: See—
- Brick-kiln. Dry-kiln.
- Corn-kiln. Gas-fired kiln.
- Downdraft continuous kiln. Sectional kiln.
- Kiln. S. P. Beebout and T. E. Morgan. No. 1,139,327; May 11; Gaz. vol. 214; p. 599.
- Kiln. R. L. Dennison. No. 1,141,619; June 1; Gaz. vol. 215; p. 190.
- Kiln. J. C. Schaffer. No. 1,147,446; July 20; Gaz. vol. 216; p. 906.
- Kiln. J. N. Silva. No. 1,133,190; Mar. 23; Gaz. vol. 212; p. 1306.
- Kiln. A. Vogt. No. 1,153,980; Sept. 21; Gaz. vol. 218; p. 643.
- Kiln for burning clay produce and the like. G. W. Ogan. No. 1,147,117; July 20; Gaz. vol. 216; p. 789.
- Kiln gage, Dry-. L. J. Schweiger. No. 1,137,795; May 4; Gaz. vol. 214; p. 25.
- Kiln or furnace for treatment of carbonaceous materials. H. T. Johnson. No. 1,141,118; June 1; Gaz. vol. 215; p. 10.
- Kilns, Automatic support for rotary. R. C. Newhouse. No. 1,146,590; July 13; Gaz. vol. 216; p. 587.
- Kilns, Basic lining for. S. B. Newberry. No. 1,156,018; Oct. 5; Gaz. vol. 219; p. 240.
- Kilns, Means for utilizing the waste heat in. T. A. Edison. No. 1,148,832; Aug. 3; Gaz. vol. 217; p. 125.
- Kilns, Stack-valve for drying-. A. D. Linn. No. 1,149,147; Aug. 3; Gaz. vol. 217; p. 232.
- Kindergarten device. R. L. Behan. No. 1,165,058; Dec. 21; Gaz. vol. 221; p. 897.
- Kindling-block. F. Rose, O. Marcus, and A. Klenz. No. 1,129,812; Feb. 23; Gaz. vol. 211; p. 1222.
- Kinetograph. T. H. Blair. No. 1,153,887; Sept. 21; Gaz. vol. 218; p. 612.
- Kinetographic apparatus. H. B. Byron. No. 1,154,233; Sept. 21; Gaz. vol. 218; p. 729.
- Kinetographic apparatus. R. J. Leonard. No. 1,163,549; Dec. 7; Gaz. vol. 221; p. 284.
- Kinetographic apparatus. R. H. Pletzsich and R. P. Nichols. No. 1,164,859; Dec. 21; Gaz. vol. 221; p. 829.
- Kinetoscope. G. W. Bingham. No. 1,123,664; Jan. 5; Gaz. vol. 210; p. 160.
- Kinetoscopes, Automatic shutter for. J. D. Engelbreit. No. 1,138,364; May 4; Gaz. vol. 214; p. 227.
- Kitchen, Army field-. W. A. Mills. No. 1,127,064; Feb. 2; Gaz. vol. 211; p. 141.
- Kitchen utensil. E. B. Poggensee. No. 1,159,080; Nov. 2; Gaz. vol. 220; p. 231.
- Kitchen utensil. M. Sari. No. 1,138,897; May 11; Gaz. vol. 214; p. 451.
- Kitchen utensil. T. H. Stough. No. 1,133,413; Mar. 30; Gaz. vol. 212; p. 1421.
- Kite. L. S. Patchel. No. 1,131,076; Mar. 9; Gaz. vol. 212; p. 463.
- Kite, Folding. H. P. Lovejoy. No. 1,153,637; Sept. 14; Gaz. vol. 218; p. 489.
- Kneading-board, Sanitary. E. C. Mix. No. 1,151,895; Aug. 31; Gaz. vol. 217; p. 1466.

Alphabetical list of inventions—Continued.

- Kneading-machine. P. E. Foucar. No. 1,133,274; Mar. 30; Gaz. vol. 212; p. 1371.
- Knee-joint. W. F. Lang. No. 1,138,298; May 4; Gaz. vol. 214; p. 201.
- Knee-joint, Artificial. C. A. Aunger. No. 1,138,923; May 11; Gaz. vol. 214; p. 459.
- Knee-joint for artificial limbs. A. E. Gaines and A. A. Erb. No. 1,124,220; Jan. 5; Gaz. vol. 210; p. 350.
- Knee-pad. W. R. Holsey. No. 1,155,491; Oct. 5; Gaz. vol. 219; p. 59.
- Knee-protector. R. C. Bassett. No. 1,131,816; Mar. 16; Gaz. vol. 212; p. 757.
- Knickerbockers. L. C. Freund. No. 1,133,552; Mar. 30; Gaz. vol. 212; p. 1470.
- Knife: See—
- | | |
|----------------------------|----------------------|
| Band-knife. | Hoof-paring knife. |
| Bleeding-knife. | Paring-knife. |
| Cutting-knife. | Penknife. |
| Cutting-machine knife. | Pocket-knife. |
| Detachable-blade knife. | Printer's ink-knife. |
| Hay-knife. | Pruning-knife. |
| Heading-knife. | Putty-knife. |
| Honeycomb-decapping knife. | |
- Knife. P. Abel. No. 1,155,331; Oct. 5; Gaz. vol. 219; p. 3.
- Knife. M. Arita. No. 1,133,213; Mar. 23; Gaz. vol. 212; p. 1313.
- Knife. A. R. Barnett. No. 1,124,690; Jan. 12; Gaz. vol. 210; p. 567.
- Knife. S. Enzler. No. 1,147,853; July 27; Gaz. vol. 216; p. 1074.
- Knife. L. L. Joseph. No. 1,128,788; Feb. 16; Gaz. vol. 211; p. 830.
- Knife. G. J. Kelley. No. 1,139,979; May 18; Gaz. vol. 214; p. 868.
- Knife. E. J. Morris. No. 1,147,683; July 20; Gaz. vol. 216; p. 988.
- Knife. H. C. Page. No. 1,134,407; Apr. 6; Gaz. vol. 213; p. 118.
- Knife-blade. T. A. Beecher. No. 1,135,987; Apr. 20; Gaz. vol. 213; p. 758.
- Knife-blade switch. G. E. Linton. No. 1,136,472; Apr. 20; Gaz. vol. 213; p. 930.
- Knife-guard for rotary knives. G. J. Sayer. No. 1,124,962; Jan. 12; Gaz. vol. 210; p. 663.
- Knife-handles, Machine for embossing seamless. R. E. Devine. No. 1,154,618; Sept. 28; Gaz. vol. 218; p. 881.
- Knife-polishing apparatus. W. H. Barnes. No. 1,144,456; June 29; Gaz. vol. 215; p. 1308.
- Knife-polishing machine. E. Tebeau. No. 1,147,828; July 27; Gaz. vol. 216; p. 1064.
- Knife-rack. D. D. Petre. No. 1,157,578; Oct. 19; Gaz. vol. 219; p. 841.
- Knife-switch. H. F. Johanningmyer. No. 1,164,191; Dec. 14; Gaz. vol. 221; p. 554.
- Knives and the like, Case for hunting-. W. Ellery. No. 1,123,862; Jan. 5; Gaz. vol. 210; p. 227.
- Knives, forks, and spoons, Device for cleaning and polishing. A. H. Eisenmann. No. 1,137,468; Apr. 27; Gaz. vol. 213; p. 1323.
- Knit article. J. F. Nelson. No. 1,166,147; Dec. 28; Gaz. vol. 221; p. 1319.
- Knit article and making the same. R. W. Scott. No. 1,150,548; Aug. 17; Gaz. vol. 217; p. 899.
- Knit goods, Method of and means for producing stripes in. J. Tebbutt. No. 1,145,522; July 6; Gaz. vol. 216; p. 191.
- Knit stocking or other garment and knitting the same, Welted. R. W. Scott. No. 1,125,190; Jan. 19; Gaz. vol. 210; p. 779.
- Knit undergarment. M. Erstling. No. 1,134,598; Apr. 6; Gaz. vol. 213; p. 188.
- Knit undergarment. B. W. Thayer. No. 1,130,216; Mar. 2; Gaz. vol. 212; p. 130.
- Knitted article of apparel. L. M. B. Robinson. No. 1,151,126; Aug. 24; Gaz. vol. 217; p. 1155.
- Knitted fabric. F. Clewley. No. 1,139,342; May 11; Gaz. vol. 214; p. 605.
- Knitted fabric. F. Clewley. No. 1,139,343; May 11; Gaz. vol. 214; p. 606.
- Knitted fabric. L. J. Quinn. No. 1,123,924; Jan. 5; Gaz. vol. 210; p. 247.
- Knitted garment. H. A. Carter. No. 1,145,402; July 6; Gaz. vol. 216; p. 149.
- Knitted garment. C. K. Soon. No. 1,160,542; Nov. 16; Gaz. vol. 220; p. 835.
- Knitted hose. F. M. Barr. No. 1,160,819; Nov. 16; Gaz. vol. 220; p. 935.
- Knitted web and making the same. R. W. Scott. (Re-issue.) No. 13,560; Jan. 5; Gaz. vol. 210; p. 354.
- Knitted webs, Transferring. L. N. D. Williams. No. 1,127,337; Feb. 2; Gaz. vol. 211; p. 234.
- Knitting-machine. W. E. Chipman. No. 1,163,970; Dec. 14; Gaz. vol. 221; p. 477.
- Knitting-machine. W. E. Hinchliff and C. W. Anderson. No. 1,163,341; Dec. 7; Gaz. vol. 221; p. 213.
- Knitting-machine. W. A. Ingalls. No. 1,144,846; June 29; Gaz. vol. 215; p. 1441.
- Knitting-machine. J. Keeton. No. 1,154,251; Sept. 21; Gaz. vol. 218; p. 736.
- Knitting-machine. G. A. Landenverger. No. 1,134,749; Apr. 6; Gaz. vol. 213; p. 243.
- Knitting-machine. J. A. Mills. No. 1,147,531; July 20; Gaz. vol. 216; p. 935.
- Knitting-machine. J. B. and J. T. Paxton. No. 1,140,709; May 25; Gaz. vol. 214; p. 1157.
- Knitting-machine. E. E. Randall. No. 1,143,552; June 15; Gaz. vol. 215; p. 939.
- Knitting-machine. E. E. Randall. No. 1,166,077; Dec. 28; Gaz. vol. 221; p. 1291.
- Knitting-machine. W. Richter. No. 1,127,283; Feb. 2; Gaz. vol. 211; p. 217.
- Knitting-machine. B. T. Steber. No. 1,148,871; Aug. 3; Gaz. vol. 217; p. 137.
- Knitting-machine. A. E. Stewart. No. 1,152,373; Aug. 31; Gaz. vol. 217; p. 1632.
- Knitting-machine. S. T. Stites. No. 1,159,429; Nov. 9; Gaz. vol. 220; p. 387.
- Knitting-machine. H. Swinglehurst. No. 1,148,263; July 27; Gaz. vol. 216; p. 1220.
- Knitting-machine. H. Swinglehurst. No. 1,151,418; Aug. 24; Gaz. vol. 217; p. 1252.
- Knitting-machine. F. B. Wildman and G. L. Ballard. No. 1,127,335; Feb. 2; Gaz. vol. 211; p. 233.
- Knitting-machine. F. B. Wildman and G. L. Ballard. No. 1,140,784; May 25; Gaz. vol. 214; p. 1182.
- Knitting-machine. L. N. D. Williams. No. 1,148,267; July 27; Gaz. vol. 216; p. 1221.
- Knitting machine. L. N. D. Williams. No. 1,151,428; Aug. 24; Gaz. vol. 217; p. 1256.
- Knitting-machine. L. N. D. Williams. No. 1,163,296; Dec. 7; Gaz. vol. 221; p. 196.
- Knitting-machine. A. Winkler. No. 1,165,478; Dec. 28; Gaz. vol. 221; p. 1083.
- Knitting-machine attachment. W. J. Steere. No. 1,143,658; June 22; Gaz. vol. 215; p. 1001.
- Knitting machine, Automatic circular-. J. Lawson. No. 1,140,269; May 18; Gaz. vol. 214; p. 968.
- Knitting-machine blower. C. A. Bazino. No. 1,141,034; May 25; Gaz. vol. 214; p. 1271.
- Knitting-machine cam-cylinder. A. E. Stewart. No. 1,131,619; Mar. 9; Gaz. vol. 212; p. 650.
- Knitting machine, Circular-. H. A. Houseman. No. 1,127,766; Feb. 9; Gaz. vol. 211; p. 426.
- Knitting machine, Circular-. H. A. Houseman. No. 1,127,767; Feb. 9; Gaz. vol. 211; p. 426.
- Knitting machine, Circular-. H. A. and H. E. Houseman. No. 1,127,768; Feb. 9; Gaz. vol. 211; p. 427.
- Knitting machine, Circular-. H. A. and H. E. Houseman. No. 1,127,769; Feb. 9; Gaz. vol. 211; p. 428.
- Knitting machine, Circular-. K. Moller. No. 1,123,779; Jan. 5; Gaz. vol. 210; p. 199.
- Knitting machine, Circular-. R. W. Scott. No. 1,148,055; July 27; Gaz. vol. 216; p. 1146.
- Knitting machine, Circular-. R. W. Scott. No. 1,152,850; Sept. 7; Gaz. vol. 218; p. 173.
- Knitting machine, Circular-. W. E. Smith. No. 1,145,930; July 13; Gaz. vol. 216; p. 353.
- Knitting machine, Circular-. W. E. Smith. No. 1,145,931; July 13; Gaz. vol. 216; p. 354.
- Knitting machine, Circular-. E. H. Walker. No. 1,145,101; July 6; Gaz. vol. 216; p. 46.
- Knitting machine, Circular-. F. Wilcomb. No. 1,129,261; Feb. 23; Gaz. vol. 211; p. 1033.
- Knitting machine, Circular-. F. Wilcomb. No. 1,129,262; Feb. 23; Gaz. vol. 211; p. 1034.
- Knitting machine, Circular-. F. Wilcomb. No. 1,131,583; Mar. 9; Gaz. vol. 212; p. 637.
- Knitting-machine, Circular-fashioning. E. J. Franck. No. 1,150,183; Aug. 17; Gaz. vol. 217; p. 772.
- Knitting-machine-cleaning mechanism, Circular-. W. Fischer. No. 1,156,838; Oct. 12; Gaz. vol. 219; p. 552.
- Knitting machine, Dogless circular-. G. L. Ballard. No. 1,140,790; May 25; Gaz. vol. 214; p. 1185.
- Knitting-machine, Drop-stitch. J. Lawson. No. 1,140,270; May 18; Gaz. vol. 214; p. 969.
- Knitting machine for fabric of changeable size, Circular-. R. W. Scott. No. 1,147,649; July 20; Gaz. vol. 216; p. 977.
- Knitting machine for producing split-foot hosiery, Automatic circular-. G. P. Bosworth. No. 1,154,169; Sept. 21; Gaz. vol. 218; p. 708.
- Knitting machine, Hosiery-. F. Godin and G. P. Bosworth. No. 1,129,288; Feb. 23; Gaz. vol. 211; p. 1043.
- Knitting machine, Lace-. I. Springthorpe. No. 1,165,294; Dec. 21; Gaz. vol. 221; p. 980.
- Knitting-machine latch-opening mechanism. W. J. Elliott. No. 1,139,173; May 11; Gaz. vol. 214; p. 549.
- Knitting-machine needle. A. P. Watt. No. 1,127,132; Feb. 2; Gaz. vol. 211; p. 165.
- Knitting-machine pick mechanism. F. Wilcomb. No. 1,158,351; Oct. 26; Gaz. vol. 219; p. 1175.
- Knitting-machine power attachment. C. F. Schuessler. No. 1,135,212; Apr. 13; Gaz. vol. 213; p. 445.
- Knitting machine, Rib-. H. W. Niermeyer. No. 1,158,072; Oct. 26; Gaz. vol. 219; p. 1079.
- Knitting machine, Rib-. L. N. D. Williams. No. 1,137,561; Apr. 27; Gaz. vol. 213; p. 1354.
- Knitting machine, Rib-. L. N. D. Williams. No. 1,163,295; Dec. 7; Gaz. vol. 221; p. 196.
- Knitting machine, Split-foot-. J. Lawson. No. 1,166,057; Dec. 28; Gaz. vol. 221; p. 1284.
- Knitting-machine stitch-changing mechanism. D. B. Kimes. No. 1,137,493; Apr. 27; Gaz. vol. 213; p. 1331.

Alphabetical list of inventions—Continued.

- Knitting machine, Stocking. G. P. Bosworth. No. 1,149,714; Aug. 10; Gaz. vol. 217; p. 542.
- Knitting-machine stop mechanism. F. B. Wildman and G. L. Ballard. No. 1,144,273; June 22; Gaz. vol. 215; p. 1216.
- Knitting-machine stop-motion, Circular. H. E. Houseman. No. 1,151,182; Aug. 24; Gaz. vol. 217; p. 1174.
- Knitting-machine stop-motion mechanism. W. W. Burke. No. 1,148,076; July 27; Gaz. vol. 216; p. 1154.
- Knitting-machine stop-motion mechanism. I. W. Grothey. No. 1,158,485; Nov. 2; Gaz. vol. 220; p. 25.
- Knitting-machine take-up, Circular. H. A. Houseman. No. 1,149,262; Aug. 10; Gaz. vol. 217; p. 379.
- Knitting-machine take-up device. L. N. D. Williams. No. 1,129,935; Mar. 2; Gaz. vol. 212; p. 35.
- Knitting-machine take-up device. L. N. D. Williams. No. 1,133,079; Mar. 23; Gaz. vol. 212; p. 1266.
- Knitting-machine take-up mechanism. G. P. Bosworth. No. 1,149,330; Aug. 10; Gaz. vol. 217; p. 404.
- Knitting-machine take-up mechanism. L. N. D. Williams. No. 1,133,078; Mar. 23; Gaz. vol. 212; p. 1265.
- Knitting machine, Tubular-welt. F. W. Wildman and G. L. Ballard. No. 1,127,334; Feb. 2; Gaz. vol. 211; p. 233.
- Knitting machine, Welt. F. B. Wildman and G. L. Ballard. No. 1,140,783; May 25; Gaz. vol. 214; p. 1181.
- Knitting machine, Welt. F. B. Wildman and G. L. Ballard. No. 1,166,289; Dec. 28; Gaz. vol. 221; p. 1371.
- Knitting-machine yarn-changing device. R. W. Scott. No. 1,123,937; Jan. 5; Gaz. vol. 210; p. 251.
- Knitting-machine yarn-changing device. H. Swinglehurst. No. 1,148,262; July 27; Gaz. vol. 216; p. 1219.
- Knitting-machine yarn-changing mechanism. R. W. Scott. No. 1,159,874; Nov. 9; Gaz. vol. 220; p. 548.
- Knitting-machine yarn-feeding device. R. S. and B. H. Phillips. No. 1,137,527; Apr. 27; Gaz. vol. 213; p. 1343.
- Knitting-machine yarn-feeding device. H. Swinglehurst. No. 1,124,076; Jan. 5; Gaz. vol. 210; p. 298.
- Knitting-machine yarn-take-up mechanism. J. H. Zens. No. 1,138,717; May 11; Gaz. vol. 214; p. 386.
- Knitting machines, Cam-adjusting device for circular. W. A. Ingalls. No. 1,147,730; July 27; Gaz. vol. 216; p. 1031.
- Knitting-machines, Clutch mechanism for fashioning. M. Zwicky. No. 1,129,940; Mar. 2; Gaz. vol. 212; p. 37.
- Knitting-machines, Electric stop device for. F. W. Sumner. No. 1,129,614; Feb. 23; Gaz. vol. 211; p. 1158.
- Knitting-machines, Knock-over-bit mechanism for. M. Zwicky. No. 1,150,567; Aug. 17; Gaz. vol. 217; p. 907.
- Knitting-machines, Pick-block adjustment for. E. M. Gunning. No. 1,129,290; Feb. 23; Gaz. vol. 211; p. 1044.
- Knitting machines, Self-compensating dog for circular. F. B. Wildman. No. 1,166,290; Dec. 28; Gaz. vol. 221; p. 1372.
- Knitting machines, Thread-carrier-operating mechanism for circular. H. A. Houseman. No. 1,152,951; Sept. 7; Gaz. vol. 218; p. 210.
- Knitting machines, Thread-carrier-operating mechanism for circular. H. E. Houseman. No. 1,161,677; Nov. 23; Gaz. vol. 220; p. 1282.
- Knitting machines, Web-holding mechanism for circular. H. Swinglehurst. No. 1,147,987; July 27; Gaz. vol. 216; p. 1121.
- Knitting machines, Yarn-changer for double-feed automatic circular. J. Lawson. No. 1,145,375; July 6; Gaz. vol. 216; p. 139.
- Knitting-machines, Yarn feeding and changing mechanism for. R. W. Scott. No. 1,159,873; Nov. 9; Gaz. vol. 220; p. 548.
- Knitting-machines, Yarn-finger mechanism for. F. E. Jones. No. 1,136,343; Apr. 20; Gaz. vol. 213; p. 882.
- Knitting on transferred fabric sections, Device for. R. W. Scott. No. 1,150,549; Aug. 17; Gaz. vol. 217; p. 900.
- Knitting selvaged fabrics. R. W. Scott. No. 1,148,056; July 27; Gaz. vol. 216; p. 1146.
- Knitting upon transferred fabric sections, Mechanism for. R. W. Scott. No. 1,150,547; Aug. 17; Gaz. vol. 217; p. 899.
- Knob-fastener. C. O. Phillips. No. 1,161,521; Nov. 23; Gaz. vol. 220; p. 1229.
- Knob fastening, Door. M. McDonald. No. 1,128,339; Feb. 16; Gaz. vol. 211; p. 677.
- Knob for door-locks, Alarm-sounding. W. Kriz. No. 1,145,201; July 6; Gaz. vol. 216; p. 79.
- Knob, Illuminating door. C. A. Greely. No. 1,128,307; Feb. 16; Gaz. vol. 211; p. 667.
- Knob lock, Permutation door. C. Katchir. No. 1,124,622; Jan. 12; Gaz. vol. 210; p. 543.
- Knob screw-lock, Door. T. L. Mahony. No. 1,150,689; Aug. 17; Gaz. vol. 217; p. 949.
- Knob-shank, Screwless. T. E. Crouch. No. 1,139,496; May 18; Gaz. vol. 214; p. 698.
- Knob, Stove-door. C. F. Helfinger. No. 1,161,669; Nov. 23; Gaz. vol. 220; p. 1279.
- Knob, Utensil. E. C. Frisk and E. C. Anderson. No. 1,142,691; June 8; Gaz. vol. 215; p. 599.
- Knock-out plates, Forming. A. R. Schmidt. No. 1,128,532; Feb. 16; Gaz. vol. 211; p. 744.
- Knockdown box. J. K. P. Bingham. No. 1,150,490; Aug. 17; Gaz. vol. 217; p. 879.
- Knockdown box. A. E. Brown. No. 1,145,668; July 6; Gaz. vol. 216; p. 242.
- Knockdown box. R. P. Brown. No. 1,140,794; May 25; Gaz. vol. 214; p. 1186.
- Knockdown box. F. W. Keith. No. 1,159,229; Nov. 2; Gaz. vol. 220; p. 285.
- Knockdown metallic house. R. F. Downey. No. 1,153,292; Sept. 14; Gaz. vol. 218; p. 364.
- Knockdown seat. M. H. Wright. No. 1,140,930; May 25; Gaz. vol. 214; p. 1238.
- Knot-tier. J. T. Dalton. No. 1,125,666; Jan. 19; Gaz. vol. 210; p. 950.
- Knuckle. R. F. Hunter. No. 1,132,348; Mar. 16; Gaz. vol. 212; p. 949.
- Kola preparation, Making a. G. C. Zimmermann. No. 1,140,934; May 25; Gaz. vol. 214; p. 1239.
- Krout-press. C. W. Lent. No. 1,153,323; Sept. 14; Gaz. vol. 218; p. 376.
- Label. L. M. Cole. (Reissue.) No. 14,000; Oct. 26; Gaz. vol. 219; p. 1202.
- Label. E. J. Herter. No. 1,145,367; July 6; Gaz. vol. 216; p. 136.
- Label. J. H. Johnson. No. 1,165,781; Dec. 28; Gaz. vol. 221; p. 1190.
- Label-affixing device. M. H. Ballard. No. 1,136,757; Apr. 20; Gaz. vol. 213; p. 1031.
- Label-affixing machine. J. Riikonen. No. 1,166,082; Dec. 28; Gaz. vol. 221; p. 1293.
- Label-affixing machines, Work-holder for. C. E. Hardenbrook. No. 1,149,646; Aug. 10; Gaz. vol. 217; p. 519.
- Label, Bottle. J. F. Brand. No. 1,159,164; Nov. 2; Gaz. vol. 220; p. 261.
- Label-cutting machine. M. H. Ballard. No. 1,136,758; Apr. 20; Gaz. vol. 213; p. 1031.
- Label-fastener. W. Siegfried. No. 1,127,298; Feb. 2; Gaz. vol. 211; p. 222.
- Label for mail-bags, packets, and the like, tie-on. C. H. Riechert. No. 1,150,965; Aug. 24; Gaz. vol. 217; p. 1101.
- Label-holder. J. L. Beers. No. 1,159,735; Nov. 9; Gaz. vol. 220; p. 497.
- Label, Metallic. F. Eberhart. No. 1,144,534; June 29; Gaz. vol. 215; p. 1333.
- Labels and applying the same to cans, Machine for treating. F. H. Knapp. No. 1,135,295; Apr. 13; Gaz. vol. 213; p. 473.
- Labels and applying the same to cans, Treating. F. H. Knapp. No. 1,135,293; Apr. 13; Gaz. vol. 213; p. 472.
- Labels from crates, Machine for removing. S. Volz. No. 1,158,752; Nov. 2; Gaz. vol. 220; p. 119.
- Labels, Means for cutting and printing. H. H. Jacobus. No. 1,159,037; Nov. 2; Gaz. vol. 220; p. 216.
- Labels to bottles, cans, and similar objects, Machine for gumming and applying. C. L. Hatchett and E. G. Rhodes. No. 1,141,053; May 25; Gaz. vol. 214; p. 1278.
- Labeling bottles, cans, canisters, and the like, Machine for. A. W. Stoker. No. 1,148,201; July 27; Gaz. vol. 216; p. 1198.
- Labeling bottles, tins, and like containers, Machine for. F. E. Davies. No. 1,146,311; July 13; Gaz. vol. 216; p. 487.
- Labeling-machine. J. W. Anderson. No. 1,130,129; Mar. 2; Gaz. vol. 212; p. 100.
- Labeling-machine. F. Coates. No. 1,157,660; Oct. 19; Gaz. vol. 219; p. 869.
- Labeling-machine. F. Coates. No. 1,158,787; Nov. 2; Gaz. vol. 220; p. 133.
- Labeling-machine. E. Jagenberg. No. 1,143,968; June 22; Gaz. vol. 215; p. 1107.
- Labeling-machine. H. C. Kestel. No. 1,160,415; Nov. 16; Gaz. vol. 220; p. 789.
- Labeling-machine. J. C. Larsen. No. 1,134,876; Apr. 6; Gaz. vol. 213; p. 285.
- Labeling-machine. M. J. Milmo. No. 1,126,822; Feb. 2; Gaz. vol. 211; p. 56.
- Labeling-machine. H. M. Smith. No. 1,151,223; Aug. 24; Gaz. vol. 217; p. 1189.
- Labeling-machine. A. Tiesse. No. 1,135,635; Apr. 13; Gaz. vol. 213; p. 593.
- Labeling-machine. A. P. and O. H. Wagner. No. 1,123,435; Jan. 5; Gaz. vol. 210; p. 82.
- Labeling-machine. F. W. Wild, Jr. No. 1,152,252; Aug. 31; Gaz. vol. 217; p. 1587.
- Labeling-machine. F. O. Woodland. No. 1,133,602; Mar. 30; Gaz. vol. 212; p. 1488.
- Labeling machine, Bottle. F. Becker. No. 1,165,936; Dec. 28; Gaz. vol. 221; p. 1243.
- Labeling machine, Bottle. A. L. Flower. No. 1,140,736; May 25; Gaz. vol. 214; p. 1166.
- Labeling machine, Box. J. Dove-Smith. No. 1,158,650; Nov. 2; Gaz. vol. 220; p. 85.
- Labeling machine, Box. J. Dove-Smith. No. 1,158,651; Nov. 2; Gaz. vol. 220; p. 86.
- Labeling machine, Box. M. J. Milmo. No. 1,126,824; Feb. 2; Gaz. vol. 211; p. 57.
- Labeling machine, Can. J. C. Shults. (Reissue.) No. 13,940; June 29; Gaz. vol. 215; p. 1488.
- Labeling-machine label-holder. A. T. Weiss. No. 1,153,144; Sept. 7; Gaz. vol. 218; p. 274.
- Labeling-machines, Squeegee mechanism for. J. A. Stock. No. 1,128,543; Feb. 16; Gaz. vol. 211; p. 747.
- Laboratory-table. E. W. Schmeling. No. 1,158,305; Oct. 26; Gaz. vol. 219; p. 1161.

Alphabetical list of inventions—Continued.

- Lace fabric. E. S. Roberts. No. 1,126,868; Feb. 2; Gaz. vol. 211; p. 73.
- Lace fastener, Shoe. W. D. Buchtel. No. 1,138,535; May 4; Gaz. vol. 214; p. 284.
- Lace fastener, Shoe. A. J. Leonard. No. 1,159,397; Nov. 9; Gaz. vol. 220; p. 376.
- Lace fastener, Shoe. B. G. Olson. No. 1,142,199; June 8; Gaz. vol. 215; p. 428.
- Lace fastener, Shoe. J. C. Robertson. No. 1,134,014; Mar. 30; Gaz. vol. 212; p. 1629.
- Lace fastener, Shoe. C. B. Smith. No. 1,154,066; Sept. 21; Gaz. vol. 218; p. 673.
- Lace holder, Shoe. E. Burket. No. 1,137,381; Apr. 27; Gaz. vol. 213; p. 1293.
- Lace holder, Shoe. W. J. McDevitt. No. 1,131,533; Mar. 9; Gaz. vol. 212; p. 620.
- Lace-holder, Twin. J. P. Perry. No. 1,165,624; Dec. 28; Gaz. vol. 221; p. 1135.
- Lace-hook for boots and shoes. A. T. Peterson. No. 1,126,852; Feb. 2; Gaz. vol. 211; p. 68.
- Lace knitter, Shoe. J. T. Cooney. No. 1,156,758; Oct. 12; Gaz. vol. 219; p. 524.
- Lace-machine or loom take-up roll, Go-through. A. B. Morse. No. 1,136,431; Apr. 20; Gaz. vol. 213; p. 915.
- Lace protector, Shoe. W. J. C. Nelson. No. 1,146,090; July 13; Gaz. vol. 216; p. 411.
- Lace, Shoe. A. Delfis. No. 1,145,002; July 6; Gaz. vol. 216; p. 8.
- Lace, Shoe. J. Grossgebauer. No. 1,165,775; Dec. 28; Gaz. vol. 221; p. 1188.
- Lace, Shoe. A. Lattinville. No. 1,125,853; Jan. 19; Gaz. vol. 210; p. 1015.
- Lace with gauzelike foundation. A. Henkels. No. 1,135,582; Apr. 13; Gaz. vol. 213; p. 574.
- Laces for coaches, &c., Manufacture of. J. Strobach. No. 1,124,357; Jan. 12; Gaz. vol. 210; p. 447.
- Laces, Process and apparatus for making tips on. F. Koch. No. 1,148,971; Aug. 3; Gaz. vol. 217; p. 172.
- Laces, Retaining device for shoe. A. H. Cohen. No. 1,126,399; Jan. 26; Gaz. vol. 210; p. 1245.
- Lacing and lace-fastener. H. D. Le Febvre. No. 1,152,422; Sept. 7; Gaz. vol. 218; p. 14.
- Lacing-hook. J. W. Wingert. No. 1,159,634; Nov. 9; Gaz. vol. 220; p. 461.
- Lacing hook or stud setting machine. W. J. Coombs. No. 1,141,775; June 1; Gaz. vol. 215; p. 242.
- Lacing-book-setting machine. D. W. Colby. No. 1,139,400; May 11; Gaz. vol. 214; p. 627.
- Lacing, Metal belt. H. Tonn. No. 1,151,979; Aug. 31; Gaz. vol. 217; p. 1494.
- Lacing, Shoe. R. Officer. No. 1,150,616; Aug. 17; Gaz. vol. 217; p. 923.
- Lacing-stud. J. B. Goodman. No. 1,146,246; July 13; Gaz. vol. 216; p. 465.
- Lacing-stud for boots, gloves, and the like. B. G. Clark. No. 1,161,027; Nov. 23; Gaz. vol. 220; p. 1053.
- Lacing-stud-setting machine. E. E. Wakefield. No. 1,129,030; Feb. 16; Gaz. vol. 211; p. 918.
- Lacing with tips, Providing shoe. F. I. Du Pont. No. 1,139,112; May 11; Gaz. vol. 214; p. 528.
- Lactical mixture and making the same. E. F. W. Wieda. No. 1,159,455; Nov. 9; Gaz. vol. 220; p. 398.
- Ladder. A. Blankenhagen. No. 1,155,125; Sept. 28; Gaz. vol. 218; p. 1066.
- Ladder. C. A. Creapo. No. 1,155,995; Oct. 5; Gaz. vol. 219; p. 231.
- Ladder. M. Crofts. No. 1,154,614; Sept. 28; Gaz. vol. 218; p. 890.
- Ladder. E. C. Dickinson. No. 1,141,950; June 8; Gaz. vol. 215; p. 339.
- Ladder. H. Dunderdale. (Reissue.) No. 13,914; May 11; Gaz. vol. 214; p. 653.
- Ladder. E. V. Fenton. No. 1,142,806; June 15; Gaz. vol. 215; p. 679.
- Ladder. L. T. Johnson. No. 1,149,368; Aug. 10; Gaz. vol. 217; p. 418.
- Ladder. H. C. Jones. No. 1,144,600; June 29; Gaz. vol. 215; p. 1355.
- Ladder. F. Mathews and E. G. Chenoweth. No. 1,134,087; Mar. 30; Gaz. vol. 212; p. 1656.
- Ladder. W. H. Rice. No. 1,131,273; Mar. 9; Gaz. vol. 212; p. 531.
- Ladder. G. W. Rowley. No. 1,149,786; Aug. 10; Gaz. vol. 217; p. 567.
- Ladder. C. F. Spaid. No. 1,162,261; Nov. 30; Gaz. vol. 220; p. 1533.
- Ladder. H. L. Trimyer. No. 1,157,602; Oct. 19; Gaz. vol. 219; p. 848.
- Ladder. N. H. Turner. No. 1,162,000; Nov. 30; Gaz. vol. 220; p. 1441.
- Ladder. G. T. Warren, Sr. No. 1,154,147; Sept. 21; Gaz. vol. 218; p. 700.
- Ladder. W. E. Wine. (Reissue.) No. 13,887; Feb. 23; Gaz. vol. 211; p. 1233.
- Ladder and ironing-board, Combination step. S. L. Burris. No. 1,149,725; Aug. 10; Gaz. vol. 217; p. 546.
- Ladder and ironing-board, Combination step. R. C. Lowe. No. 1,139,784; May 18; Gaz. vol. 214; p. 799.
- Ladder and ironing-board, Combined step. G. M. Atwood. No. 1,145,396; July 6; Gaz. vol. 216; p. 146.
- Ladder and ironing-board, Combined step. H. Hoeglund. No. 1,153,430; Sept. 14; Gaz. vol. 218; p. 416.
- Ladder and ironing-board, Convertible step. J. W. Matheny. No. 1,153,558; Sept. 14; Gaz. vol. 218; p. 463.
- Ladder and ironing-table, Combined. B. Sherman. No. 1,147,758; July 27; Gaz. vol. 216; p. 1041.
- Ladder and scaffold, Combined. M. McVickar. No. 1,126,539; Jan. 26; Gaz. vol. 210; p. 1297.
- Ladder attachment. F. L. Toupal. No. 1,163,382; Dec. 7; Gaz. vol. 221; p. 226.
- Ladder-bracket. H. Holden. No. 1,154,923; Sept. 28; Gaz. vol. 218; p. 994.
- Ladder, Convertible. M. M. Wood. No. 1,148,882; Aug. 3; Gaz. vol. 217; p. 141.
- Ladder device, Aerial. W. E. Lee. No. 1,164,293; Dec. 14; Gaz. vol. 221; p. 589.
- Ladder, Extensible. A. M. Morgan. No. 1,151,809; Aug. 31; Gaz. vol. 217; p. 1436.
- Ladder, Extension step. W. A. Tyler. No. 1,157,739; Oct. 26; Gaz. vol. 219; p. 962.
- Ladder, Folding. W. Ortwig and E. C. Bryant. No. 1,129,003; Feb. 16; Gaz. vol. 211; p. 908.
- Ladder, Folding step. L. E. Garraway. No. 1,165,588; Dec. 28; Gaz. vol. 221; p. 1121.
- Ladder-foot. E. F. Sadler. No. 1,127,287; Feb. 2; Gaz. vol. 211; p. 219.
- Ladder for stave structures. E. A. Berry. No. 1,153,750; Sept. 14; Gaz. vol. 218; p. 528.
- Ladder, Hay-rack. W. E. Jentz, Jr. No. 1,163,544; Dec. 7; Gaz. vol. 221; p. 282.
- Ladder-holding device. D. H. Wingerd. No. 1,142,072; June 8; Gaz. vol. 215; p. 383.
- Ladder-jack. W. G. Vinans. No. 1,143,678; June 22; Gaz. vol. 215; p. 1008.
- Ladder-locking device. W. H. Arnold. No. 1,125,251; Jan. 26; Gaz. vol. 210; p. 802.
- Ladder-making machine. F. A. Stick. No. 1,145,713; July 6; Gaz. vol. 216; p. 259.
- Ladder, Movable extension. G. Predonzan. No. 1,139,996; May 18; Gaz. vol. 214; p. 874.
- Ladder, Orchard. J. F. Merrill. No. 1,139,990; May 18; Gaz. vol. 214; p. 872.
- Ladder, Portable orchard. W. A. Miller. No. 1,148,035; July 27; Gaz. vol. 216; p. 1138.
- Ladder, Roof. V. M. Kessler. No. 1,160,721; Nov. 16; Gaz. vol. 220; p. 901.
- Ladder-round. A. Schreiner. No. 1,162,950; Dec. 7; Gaz. vol. 221; p. 75.
- Ladder-scaffolding. E. E. Simpson. No. 1,148,631; Aug. 3; Gaz. vol. 217; p. 53.
- Ladder, Ship's landing. M. Dubrule and N. Doe. No. 1,124,115; Jan. 5; Gaz. vol. 210; p. 311.
- Ladder, Silo. E. A. Berry. No. 1,162,743; Dec. 7; Gaz. vol. 221; p. 5.
- Ladder, Step. R. Acton. No. 1,152,687; Sept. 7; Gaz. vol. 218; p. 113.
- Ladder, Step. F. J. Caronia. No. 1,135,763; Apr. 13; Gaz. vol. 213; p. 637.
- Ladder, Step. A. N. Faulkner. No. 1,126,625; Jan. 26; Gaz. vol. 210; p. 1328.
- Ladder, Step. I. G. Mitchell. No. 1,134,214; Apr. 6; Gaz. vol. 213; p. 48.
- Ladder, Step. J. Parr. No. 1,146,094; July 13; Gaz. vol. 216; p. 412.
- Ladder, Step. W. T. Pyle. No. 1,158,716; Nov. 2; Gaz. vol. 220; p. 106.
- Ladder, Step. J. Y. Savage. No. 1,134,491; Apr. 6; Gaz. vol. 213; p. 149.
- Ladder, Step. F. B. Underwood. No. 1,151,740; Aug. 31; Gaz. vol. 217; p. 1410.
- Ladder, Step. F. E. Van Houten. No. 1,135,336; Apr. 13; Gaz. vol. 213; p. 488.
- Ladder, Step. E. E. White. No. 1,159,452; Nov. 9; Gaz. vol. 220; p. 396.
- Ladder structure, Tiltable. O. H. Blom. No. 1,134,437; Apr. 6; Gaz. vol. 213; p. 129.
- Ladder-support. T. H. Tasker. No. 1,138,583; May 4; Gaz. vol. 214; p. 300.
- Ladder-support, Painter's. J. W. Narron. No. 1,143,058; June 15; Gaz. vol. 215; p. 767.
- Ladle-fastening. F. H. Beebe. No. 1,126,687; Feb. 2; Gaz. vol. 211; p. 6.
- Ladle, Ice-cream. R. B. Gilchrist. No. 1,132,657; Mar. 23; Gaz. vol. 212; p. 1111.
- Ladle-skimmer and heat-protector, Mechanical. J. E. Fazakerley. No. 1,139,960; May 18; Gaz. vol. 214; p. 860.
- Ladle, Skimming. J. L. Jones. No. 1,145,422; July 6; Gaz. vol. 216; p. 156.
- Laminated board and making same. M. Lachman. No. 1,130,410; Mar. 2; Gaz. vol. 212; p. 198.
- Laminated cohesive interwound fabric constructed in tubular and annular form. L. A. Subers. No. 1,132,634; Mar. 23; Gaz. vol. 212; p. 1103.
- Laminated cohesive interwound tubular fabric capable of assuming an annular form, Automatic machine for constructing a. L. A. Subers. No. 1,132,635; Mar. 23; Gaz. vol. 212; p. 1103.
- Laminated fabric, Wear-resisting. I. R. Y. Marble. No. 1,126,648; Jan. 26; Gaz. vol. 210; p. 1337.
- Laminated structure. F. S. Martin. No. 1,150,049; Aug. 17; Gaz. vol. 217; p. 723.

Alphabetical list of inventions—Continued.

- Laminated structures, Making. J. E. Rhoads. No. 1,140,187; May 18; Gaz. vol. 214; p. 942.
- Laminated tube. E. S. Nicewarner. No. 1,164,303; Dec. 14; Gaz. vol. 221; p. 593.
- Laminated tube. E. S. Nicewarner. No. 1,164,304; Dec. 14; Gaz. vol. 221; p. 593.
- Lamp. A. C. Abramson. No. 1,134,574; Apr. 6; Gaz. vol. 213; p. 179.
- Lamp. W. F. Ankiam. No. 1,131,652; Mar. 16; Gaz. vol. 212; p. 696.
- Lamp. G. H. Baker. No. 1,127,577; Feb. 9; Gaz. vol. 211; p. 359.
- Lamp. W. W. Cogswell. No. 1,123,488; Jan. 5; Gaz. vol. 210; p. 99.
- Lamp. T. J. Corcoran. No. 1,137,464; Apr. 27; Gaz. vol. 213; p. 1322.
- Lamp. C. N. Crafton. No. 1,124,396; Jan. 12; Gaz. vol. 210; p. 459.
- Lamp. A. B. Gates. No. 1,137,204; Apr. 27; Gaz. vol. 213; p. 1227.
- Lamp. F. C. Howe. No. 1,147,727; July 27; Gaz. vol. 216; p. 1030.
- Lamp. E. R. Lewis and D. J. Cook. No. 1,161,940; Nov. 30; Gaz. vol. 220; p. 1421.
- Lamp. P. Malcamp. No. 1,158,419; Oct. 26; Gaz. vol. 219; p. 1201.
- Lamp. G. D. McPhail. No. 1,139,691; May 18; Gaz. vol. 214; p. 766.
- Lamp. W. B. Meeker. No. 1,164,738; Dec. 21; Gaz. vol. 221; p. 786.
- Lamp. J. F. Mitchell. No. 1,141,880; June 1; Gaz. vol. 215; p. 276.
- Lamp. G. Patterson. No. 1,135,317; Apr. 13; Gaz. vol. 213; p. 481.
- Lamp. W. T. Persons. No. 1,138,503; May 4; Gaz. vol. 214; p. 274.
- Lamp. L. L. Pfeifer. No. 1,161,410; Nov. 23; Gaz. vol. 220; p. 1191.
- Lamp. L. L. Pfeifer. No. 1,165,120; Dec. 21; Gaz. vol. 221; p. 921.
- Lamp. J. T. Roffy. No. 1,153,445; Sept. 14; Gaz. vol. 218; p. 421.
- Lamp. A. J. Sanford. No. 1,150,391; Aug. 17; Gaz. vol. 217; p. 845.
- Lamp. L. Schepmoes. No. 1,131,428; Mar. 9; Gaz. vol. 212; p. 584.
- Lamp. R. C. Shaal. No. 1,138,984; May 11; Gaz. vol. 214; p. 482.
- Lamp. C. H. Smith. No. 1,148,198; July 27; Gaz. vol. 216; p. 1197.
- Lamp, Acetylene-. A. L. Hansen. No. 1,165,969; Dec. 28; Gaz. vol. 221; p. 1254.
- Lamp, Acetylene-. A. B. Mitchell. No. 1,141,475; June 1; Gaz. vol. 215; p. 140.
- Lamp, Acetylene-gas. L. Hartmann. No. 1,142,421; June 8; Gaz. vol. 215; p. 507.
- Lamp, Acetylene-gas. H. Iden and J. J. Suckert. No. 1,149,522; Aug. 10; Gaz. vol. 217; p. 471.
- Lamp, Acetylene-gas. G. Roussel. No. 1,130,339; Mar. 2; Gaz. vol. 212; p. 172.
- Lamp, Acetylene-gas. J. H. Winger. No. 1,130,456; Mar. 2; Gaz. vol. 212; p. 215.
- Lamp, Acetylene-generating. O. Williams and E. C. Baker. No. 1,132,894; Mar. 23; Gaz. vol. 212; p. 1197.
- Lamp, Adjustable. C. H. Craft. No. 1,124,112; Jan. 5; Gaz. vol. 210; p. 311.
- Lamp, Adjustable. F. C. Howe. No. 1,124,902; Jan. 12; Gaz. vol. 210; p. 641.
- Lamp, Adjustable. F. C. Howe. No. 1,124,903; Jan. 12; Gaz. vol. 210; p. 642.
- Lamp, Adjustable. F. C. Howe. No. 1,142,964; June 15; Gaz. vol. 215; p. 734.
- Lamp-adjusting device. Arc-. L. Fort. No. 1,129,285; Feb. 23; Gaz. vol. 211; p. 1042.
- Lamp-adjusting mechanism. D. C. Kitching. No. 1,129,207; Feb. 23; Gaz. vol. 211; p. 1014.
- Lamp-adjusting pedal mechanism. D. C. Kitching. No. 1,154,187; Sept. 21; Gaz. vol. 218; p. 713.
- Lamp, Alcohol-. C. Nelson. No. 1,154,125; Sept. 21; Gaz. vol. 218; p. 693.
- Lamp, Alternating-current vapor-. P. H. Thomas. No. 1,161,425; Nov. 23; Gaz. vol. 220; p. 1196.
- Lamp and box therefor, Emergency-. I. Goldberg. No. 1,147,859; July 27; Gaz. vol. 216; p. 1076.
- Lamp and electrode therefor, Flame-arc. G. Egly. No. 1,132,313; Mar. 16; Gaz. vol. 212; p. 938.
- Lamp and horn, Combined. P. B. Whitney. No. 1,157,744; Oct. 26; Gaz. vol. 219; p. 964.
- Lamp and lamp-support. C. Kaufmann. No. 1,164,358; Dec. 14; Gaz. vol. 221; p. 613.
- Lamp and mirror fixture, Adjustable electric. O. B. Fagan. No. 1,157,519; Oct. 19; Gaz. vol. 219; p. 823.
- Lamp and producing light by means of the same, Electrical gas-. F. Skaupy. No. 1,151,129; Aug. 24; Gaz. vol. 217; p. 1155.
- Lamp and reflector. J. T. Roffy. No. 1,153,446; Sept. 14; Gaz. vol. 218; p. 422.
- Lamp and reflector, Combined electric incandescent. C. P. Lawson. No. 1,127,903; Feb. 9; Gaz. vol. 211; p. 477.
- Lamp and support for same. J. T. Beechlyn. No. 1,153,284; Sept. 14; Gaz. vol. 218; p. 362.
- Lamp and the like, Electric vapor-. J. Jonas. No. 1,164,603; Dec. 14; Gaz. vol. 221; p. 697.
- Lamp, Arc-. J. T. H. Dempster. No. 1,132,307; Mar. 16; Gaz. vol. 212; p. 936.
- Lamp, Arc-. J. L. Dinsmoor. No. 1,143,108; June 15; Gaz. vol. 215; p. 785.
- Lamp, Arc-. R. Fleming and C. A. B. Halvorson, Jr. No. 1,136,593; Apr. 20; Gaz. vol. 213; p. 972.
- Lamp, Arc-. E. J. Guay. No. 1,142,251; June 8; Gaz. vol. 215; p. 446.
- Lamp, Arc-. C. Henriksen. No. 1,152,731; Sept. 7; Gaz. vol. 218; p. 129.
- Lamp, Arc-. C. Henriksen. No. 1,159,765; Nov. 9; Gaz. vol. 220; p. 508.
- Lamp, Arc-. G. M. Little. No. 1,126,800; Feb. 2; Gaz. vol. 211; p. 48.
- Lamp, Arc-. H. E. Moul. No. 1,135,129; Apr. 13; Gaz. vol. 213; p. 418.
- Lamp, Arc-. W. L. Patterson. No. 1,129,117; Feb. 23; Gaz. vol. 211; p. 984.
- Lamp-attaching implement, Incandescent-. C. D. Buss and F. Heacock. No. 1,133,613; Mar. 30; Gaz. vol. 212; p. 1493.
- Lamp attachment for culinary articles. H. P. Ball. No. 1,155,033; Sept. 28; Gaz. vol. 218; p. 1031.
- Lamp attachment means, Miner's-. F. A. Casteel and R. M. Mayfield. No. 1,148,889; Aug. 3; Gaz. vol. 217; p. 143.
- Lamp, Berth-. W. S. Hamm. No. 1,126,454; Jan. 26; Gaz. vol. 210; p. 1265.
- Lamp, Berth-. J. A. Shaw. No. 1,123,407; Jan. 5; Gaz. vol. 210; p. 72.
- Lamp-bracket. G. H. Gumbel. No. 1,136,005; Apr. 20; Gaz. vol. 213; p. 764.
- Lamp-bracket. R. E. Hess. No. 1,164,283; Dec. 14; Gaz. vol. 221; p. 586.
- Lamp-bracket. H. J. Sauer. No. 1,158,078; Oct. 26; Gaz. vol. 219; p. 1081.
- Lamp-bracket. R. P. Smidley. No. 1,166,014; Dec. 28; Gaz. vol. 221; p. 1270.
- Lamp-bracket and signal, Combined. C. G. Mollan. No. 1,145,843; July 6; Gaz. vol. 216; p. 304.
- Lamp-bracket for railway-cars. B. H. Mann. No. 1,133,302; Mar. 30; Gaz. vol. 212; p. 1380.
- Lamp-bracket, Vehicle. L. E. Gerrish. No. 1,128,127; Feb. 9; Gaz. vol. 211; p. 554.
- Lamp-burner. F. Dow. (Reissue.) No. 14,016; Nov. 23; Gaz. vol. 220; p. 1336.
- Lamp-burner. A. Emack. No. 1,124,880; Jan. 12; Gaz. vol. 210; p. 634.
- Lamp-burner. H. F. Miller. No. 1,144,610; June 29; Gaz. vol. 215; p. 1358.
- Lamp-burner. C. W. Standridge. No. 1,148,413; July 27; Gaz. vol. 216; p. 1273.
- Lamp-burner. H. F. Stevens. No. 1,140,415; May 25; Gaz. vol. 214; p. 1056.
- Lamp-burner. C. L. Wagandt. No. 1,162,714; Nov. 30; Gaz. vol. 220; p. 1634.
- Lamp-burner. J. P. Walsh. No. 1,131,581; Mar. 9; Gaz. vol. 212; p. 636.
- Lamp-burner attachment. J. Heberling. No. 1,139,864; May 18; Gaz. vol. 214; p. 828.
- Lamp burner, Oil-. J. P. Truesdell. No. 1,141,435; June 1; Gaz. vol. 215; p. 125.
- Lamp-burner, Self-extinguishing. W. W. Saunders. No. 1,135,850; Apr. 13; Gaz. vol. 213; p. 669.
- Lamp-burners, Draft-deflector for. J. K. Davis. No. 1,151,512; Aug. 24; Gaz. vol. 217; p. 1286.
- Lamp, Candle-. C. E. Green. No. 1,163,530; Dec. 7; Gaz. vol. 221; p. 278.
- Lamp-carrier. T. Birath. No. 1,137,568; Apr. 27; Gaz. vol. 213; p. 1357.
- Lamp case, Portable-electric-. C. H. Pollard. No. 1,129,602; Feb. 23; Gaz. vol. 211; p. 1155.
- Lamp-chimney attachment. P. A. Weller. No. 1,137,247; Apr. 27; Gaz. vol. 213; p. 1243.
- Lamp-chimney holder. J. H. Blake. No. 1,125,448; Jan. 19; Gaz. vol. 210; p. 873.
- Lamp-chimney holder. G. W. Carter. No. 1,165,317; Dec. 21; Gaz. vol. 221; p. 987.
- Lamp-chimney holder. F. Dodokin. No. 1,139,503; May 18; Gaz. vol. 214; p. 700.
- Lamp-chimneys, Heating attachment for. C. E. Snively. No. 1,144,920; June 29; Gaz. vol. 215; p. 1465.
- Lamp circuits, By-pass for incandescent-electric. E. and N. R. Booth. No. 1,126,369; Jan. 26; Gaz. vol. 210; p. 1235.
- Lamp-cleaner. W. D. Bowie. No. 1,126,372; Jan. 26; Gaz. vol. 210; p. 1235.
- Lamp, Cluster incandescent. T. G. Little, Jr. No. 1,132,365; Mar. 16; Gaz. vol. 212; p. 955.
- Lamp, Cluster incandescent. H. Lyon. No. 1,158,249; Oct. 26; Gaz. vol. 219; p. 1140.
- Lamp, Combination gas and electric. A. H. Humphrey. No. 1,125,907; Jan. 19; Gaz. vol. 210; p. 1034.
- Lamp, Compressed-gas. E. Dresler. No. 1,134,319; Apr. 6; Gaz. vol. 213; p. 87.
- Lamp control and igniter, Gas-. W. F. Oeffger. No. 1,132,485; Mar. 16; Gaz. vol. 212; p. 999.
- Lamp control, Automatic head-. J. B. Colvin. No. 1,137,700; Apr. 27; Gaz. vol. 213; p. 1398.

Alphabetical list of inventions—Continued.

- Lamp control, Automobile head-. G. E. Woods. No. 1,134,801; Apr. 6; Gaz. vol. 213; p. 262.
- Lamp control for vehicles, Signal-. C. W. Davis. No. 1,165,853; Dec. 28; Gaz. vol. 221; p. 1213.
- Lamp control, Head-. F. Carter. No. 1,159,471; Nov. 9; Gaz. vol. 220; p. 403.
- Lamp control, Head-. J. A. McKim. No. 1,141,809; June 1; Gaz. vol. 215; p. 253.
- Lamp, Convertible. C. Bergener. No. 1,136,580; Apr. 20; Gaz. vol. 213; p. 968.
- Lamp-cord reel. A. MacLean. No. 1,139,554; May 18; Gaz. vol. 214; p. 717.
- Lamp cords and the like, Take-up device for electric-. N. S. Cameron. No. 1,157,505; Oct. 19; Gaz. vol. 219; p. 818.
- Lamp cut-out, Automatic. J. E. Boesch. No. 1,147,700; July 27; Gaz. vol. 216; p. 1020.
- Lamp cut-out, Automatic. J. E. Boesch. No. 1,147,701; July 27; Gaz. vol. 216; p. 1020.
- Lamp deflector, Electric-. C. L. Stryker. No. 1,148,128; July 27; Gaz. vol. 216; p. 1174.
- Lamp, Detachable. J. E. Marsden. No. 1,137,773; May 4; Gaz. vol. 214; p. 18.
- Lamp-dimmer. M. Engers. No. 1,146,143; July 13; Gaz. vol. 216; p. 429.
- Lamp-dimmer, Automobile. J. D. Carter. No. 1,148,354; July 27; Gaz. vol. 216; p. 1253.
- Lamp, Dirigible automobile-. A. D. Mowers. No. 1,163,027; Dec. 7; Gaz. vol. 221; p. 102.
- Lamp, Dirigible automobile-. T. H. Paschke. No. 1,138,404; May 4; Gaz. vol. 214; p. 241.
- Lamp, Dirigible automobile-. C. B. Sheridan. No. 1,137,672; Apr. 27; Gaz. vol. 213; p. 1390.
- Lamp, Double-reflecting. A. Rousch. No. 1,151,401; Aug. 24; Gaz. vol. 217; p. 1247.
- Lamp, Electric. J. Berg. No. 1,142,548; June 8; Gaz. vol. 215; p. 551.
- Lamp, Electric. H. A. Douglas. No. 1,151,249; Aug. 24; Gaz. vol. 217; p. 1198.
- Lamp, Electric. C. Ficq. No. 1,149,038; Aug. 3; Gaz. vol. 217; p. 196.
- Lamp, Electric. C. H. Fischer. No. 1,140,893; May 25; Gaz. vol. 214; p. 1223.
- Lamp, Electric. C. H. Fischer. No. 1,140,894; May 25; Gaz. vol. 214; p. 1223.
- Lamp, Electric. L. A. Hawkins. No. 1,132,008; Mar. 16; Gaz. vol. 212; p. 825.
- Lamp, Electric. H. Kimura. No. 1,159,047; Nov. 2; Gaz. vol. 220; p. 220.
- Lamp, Electric. O. Schaller. No. 1,155,963; Oct. 5; Gaz. vol. 219; p. 222.
- Lamp, Electric-arc. F. W. Gore. No. 1,139,965; May 18; Gaz. vol. 214; p. 862.
- Lamp, Electric-arc. F. W. Gore. No. 1,142,248; June 8; Gaz. vol. 215; p. 445.
- Lamp, Electric-arc. R. Holsteen. No. 1,159,383; Nov. 9; Gaz. vol. 220; p. 370.
- Lamp, Electric-arc. W. R. Mott. No. 1,148,184; July 27; Gaz. vol. 216; p. 1193.
- Lamp, Electric-arc. W. C. H. Wefel. No. 1,151,841; Aug. 31; Gaz. vol. 217; p. 1446.
- Lamp, Electric-arc. A. Zanotta. No. 1,130,460; Mar. 2; Gaz. vol. 212; p. 217.
- Lamp, Electric Incandescent. A. E. Appleyard. No. 1,156,967; Oct. 19; Gaz. vol. 219; p. 628.
- Lamp, Electric pocket-. W. Jerger, Sr., and M. Weiss. No. 1,129,871; Mar. 2; Gaz. vol. 212; p. 13.
- Lamp, Electric pocket-. J. Stock. No. 1,158,081; Oct. 26; Gaz. vol. 219; p. 1082.
- Lamp, Electric pocket-. J. G. Swallow. No. 1,124,075; Jan. 5; Gaz. vol. 210; p. 298.
- Lamp, Electrical incandescent. H. Gerdien and M. von Pirani. No. 1,139,668; May 18; Gaz. vol. 214; p. 759.
- Lamp-extinguisher. J. L. Hayes. No. 1,159,219; Nov. 2; Gaz. vol. 220; p. 282.
- Lamp-filament support, Incandescent-. H. W. Jackson. No. 1,150,270; Aug. 17; Gaz. vol. 217; p. 804.
- Lamp filaments, Machine for mounting incandescent-. G. F. Atwood. No. 1,145,660; July 6; Gaz. vol. 216; p. 240.
- Lamp filaments, Mounting for incandescent-. C. F. Scott. No. 1,145,707; July 6; Gaz. vol. 216; p. 257.
- Lamp-filaments, Terminal connection for. F. G. Keyes. No. 1,161,823; Nov. 23; Gaz. vol. 220; p. 1332.
- Lamp-fixture. C. H. Hofrichter. No. 1,145,588; July 6; Gaz. vol. 216; p. 213.
- Lamp fixture, Electric-. G. J. Dormandy. No. 1,126,672; Jan. 26; Gaz. vol. 210; p. 1345.
- Lamp fixture, Electric-. A. C. McWilliams. No. 1,145,382; July 6; Gaz. vol. 216; p. 142.
- Lamp fixture, Electric-. A. C. McWilliams. No. 1,145,383; July 6; Gaz. vol. 216; p. 142.
- Lamp fixture, Electric-. T. Nelsen. No. 1,124,939; Jan. 12; Gaz. vol. 210; p. 654.
- Lamp fixture, Gas-. L. F. Franz. No. 1,145,188; July 6; Gaz. vol. 216; p. 74.
- Lamp fixture, Glow-. T. E. Murray and G. K. Jessup. No. 1,135,541; Apr. 13; Gaz. vol. 213; p. 559.
- Lamp fixture, Incandescent-electric-. F. Buchanan. No. 1,162,974; Dec. 7; Gaz. vol. 221; p. 84.
- Lamp fixture, Incandescent-electric-. E. G. Smith and F. J. Mantel. No. 1,156,560; Oct. 12; Gaz. vol. 219; p. 455.
- Lamp-fixture, Pole-top. A. H. W. Joyner. No. 1,125,111; Jan. 19; Gaz. vol. 210; p. 750.
- Lamp-focusing device, Electric-. H. H. Holland and J. C. Stearns. No. 1,137,322; Apr. 27; Gaz. vol. 213; p. 1271.
- Lamp for automobiles, Dash and trouble. J. C. Stearns. No. 1,158,578; Nov. 2; Gaz. vol. 220; p. 59.
- Lamp for automobiles, Dirigible. J. Bollinger. No. 1,155,877; Oct. 5; Gaz. vol. 219; p. 193.
- Lamp for automobiles, Dirigible. W. B. Dievendorf. No. 1,151,166; Aug. 24; Gaz. vol. 217; p. 1169.
- Lamp for automobiles, Headlight-. S. Berens. No. 1,135,566; Apr. 13; Gaz. vol. 213; p. 569.
- Lamp for barbers' chairs. A. Selafanl. No. 1,137,091; Apr. 27; Gaz. vol. 213; p. 1186.
- Lamp for beds, Adjustable. A. Goldknopf. No. 1,154,243; Sept. 21; Gaz. vol. 218; p. 733.
- Lamp for burning metals. R. and E. Sudiah. No. 1,146,973; July 20; Gaz. vol. 216; p. 740.
- Lamp for liquid hydrocarbons. H. Seligmann. No. 1,146,352; July 13; Gaz. vol. 216; p. 501.
- Lamp for motor-vehicles, Electric. E. B. Corcoran. No. 1,125,266; Jan. 19; Gaz. vol. 210; p. 807.
- Lamp for stereopticons. H. M. Hill. No. 1,153,161; Sept. 7; Gaz. vol. 218; p. 280.
- Lamp for vehicles, Dirigible head-. C. Adams. No. 1,134,089; Apr. 6; Gaz. vol. 213; p. 3.
- Lamp for vehicles, Head-. C. Adams. No. 1,134,090; Apr. 6; Gaz. vol. 213; p. 3.
- Lamp, Gas-. E. E. Allbee. No. 1,123,648; Jan. 5; Gaz. vol. 210; p. 154.
- Lamp, Gas-. G. B. Collier. No. 1,133,266; Mar. 30; Gaz. vol. 212; p. 1367.
- Lamp, Gas-. G. Keith. No. 1,123,887; Jan. 5; Gaz. vol. 210; p. 235.
- Lamp, Gas-. J. Lederer. No. 1,137,989; May 4; Gaz. vol. 214; p. 93.
- Lamp, Gas-. C. D. Wright. No. 1,134,935; Apr. 6; Gaz. vol. 213; p. 304.
- Lamp-gear, Automobile. W. Osmond. No. 1,136,831; Apr. 20; Gaz. vol. 213; p. 1057.
- Lamp-glass extension. E. P. Schultz. No. 1,136,278; Apr. 20; Gaz. vol. 213; p. 859.
- Lamp-globe fixture. C. Bertram. No. 1,146,471; July 13; Gaz. vol. 216; p. 547.
- Lamp-globe holder. F. J. Humphrey. No. 1,123,298; Jan. 5; Gaz. vol. 210; p. 33.
- Lamp globe or reflector support or holder. S. Snyder. No. 1,133,410; Mar. 30; Gaz. vol. 212; p. 1420.
- Lamp guard, Electric-. J. Kaufman. No. 1,159,682; Nov. 9; Gaz. vol. 220; p. 477.
- Lamp hanger, Electric-. H. L. Newell. No. 1,163,444; Dec. 7; Gaz. vol. 221; p. 249.
- Lamp-holder. H. C. L. Holden. No. 1,133,231. Mar. 23; Gaz. vol. 212; p. 1318.
- Lamp-holder. L. Keen and Z. Adamski. No. 1,148,385; July 27; Gaz. vol. 216; p. 1264.
- Lamp-holder. H. S. Knerr. No. 1,123,757; Jan. 5; Gaz. vol. 210; p. 192.
- Lamp-holder. H. E. Whitney. No. 1,161,096; Nov. 23; Gaz. vol. 220; p. 1077.
- Lamp, Horizontal arc-. H. W. Hobbs. No. 1,132,776; Mar. 23; Gaz. vol. 212; p. 1155.
- Lamp, Hydrocarbon-. L. Baxter. No. 1,144,684; June 29; Gaz. vol. 215; p. 1384.
- Lamp, Hydrocarbon-. A. G. Kaufman. No. 1,142,814; June 15; Gaz. vol. 215; p. 682.
- Lamp, Hydrocarbon-vapor. M. Brylinski. No. 1,154,090; Sept. 21; Gaz. vol. 218; p. 682.
- Lamp, Incandescent. F. Dickenschied. No. 1,149,188; Aug. 10; Gaz. vol. 217; p. 351.
- Lamp, Incandescent. B. E. Eldred. No. 1,140,134; May 18; Gaz. vol. 214; p. 924.
- Lamp, Incandescent. R. Jacoby. No. 1,154,514; Sept. 21; Gaz. vol. 218; p. 826.
- Lamp, Incandescent. A. S. Knight. No. 1,125,694; Jan. 19; Gaz. vol. 210; p. 960.
- Lamp, Incandescent. G. M. J. Mackay. No. 1,157,995; Oct. 26; Gaz. vol. 219; p. 1050.
- Lamp, Incandescent. C. E. Pierce. No. 1,131,079; Mar. 9; Gaz. vol. 212; p. 463.
- Lamp, Incandescent. C. F. Scott. No. 1,125,744; Jan. 19; Gaz. vol. 210; p. 978.
- Lamp, Incandescent. F. Skaupy. No. 1,159,111; Nov. 2; Gaz. vol. 220; p. 242.
- Lamp, Incandescent. F. Skaupy. No. 1,160,661; Nov. 16; Gaz. vol. 220; p. 879.
- Lamp, Incandescent electric. J. H. Birch. No. 1,150,738; Aug. 17; Gaz. vol. 217; p. 964.
- Lamp, Incandescent electric. H. Csanyi. No. 1,124,213; Jan. 5; Gaz. vol. 210; p. 347.
- Lamp, Incandescent electric. J. J. Rooney. No. 1,123,384; Jan. 5; Gaz. vol. 210; p. 64.
- Lamp, Incandescent electric. C. A. Vetter. No. 1,157,464; Oct. 19; Gaz. vol. 219; p. 804.
- Lamp, Inclosed-flaming arc. T. L. Carbone. No. 1,154,093; Sept. 21; Gaz. vol. 218; p. 683.
- Lamp, Inclosed-arc. C. A. B. Halvorson, Jr. No. 1,132,259; Mar. 16; Gaz. vol. 212; p. 918.

Alphabetical list of inventions—Continued.

- Lamp, Indicating-. W. E. Gilbert. No. 1,133,126; Mar. 23; Gaz. vol. 212; p. 1283.
- Lamp, Indirect-illuminating. H. S. Conant. No. 1,123,688; Jan. 5; Gaz. vol. 210; p. 167.
- Lamp, lighter and extinguisher. E. A. Smetzer. No. 1,123,605; Jan. 5; Gaz. vol. 210; p. 140.
- Lamp, lighting and extinguishing mechanism, Street-. E. S. Newbold. No. 1,142,608; June 8; Gaz. vol. 215; p. 571.
- Lamp-lock. W. E. McLaughlin. No. 1,125,143; Jan. 19; Gaz. vol. 210; p. 761.
- Lamp lock, Electric-. J. O. Hebble and F. H. Humphre-vill. No. 1,162,355; Nov. 30; Gaz. vol. 220; p. 1565.
- Lamp, Locking-. H. Hubbell. No. 1,138,292; May 4; Gaz. vol. 214; p. 199.
- Lamp, Locking-. H. Hubbell. No. 1,138,293; May 4; Gaz. vol. 214; p. 200.
- Lamp-locking device, Electric-. H. T. Worrall. No. 1,137,177; Apr. 27; Gaz. vol. 213; p. 1217.
- Lamp-making machine. N. Marshall. No. 1,132,277; Mar. 16; Gaz. vol. 212; p. 925.
- Lamp, Metallic-filament. H. J. Jaeger. No. 1,143,909; June 22; Gaz. vol. 215; p. 1086.
- Lamp, Miner's. O. V. Fortney. No. 1,132,324; Mar. 16; Gaz. vol. 212; p. 942.
- Lamp, Miner's. A. L. Hansen. No. 1,162,915; Dec. 7; Gaz. vol. 221; p. 62.
- Lamp, Miner's. S. J. Yellen. No. 1,136,303; Apr. 20; Gaz. vol. 213; p. 869.
- Lamp, Miner's acetylene-gas. J. A. Gustafson. No. 1,142,699; June 8; Gaz. vol. 215; p. 601.
- Lamp, Miner's safety-. M. Albrecht. No. 1,153,003; Sept. 7; Gaz. vol. 218; p. 229.
- Lamp, Miner's safety-. E. F. Koehler. No. 1,132,522; Mar. 16; Gaz. vol. 212; p. 1013.
- Lamp, Oil-. J. Bryson. No. 1,142,234; June 8; Gaz. vol. 215; p. 441.
- Lamp, Oil-. S. H. Sherwood. No. 1,149,091; Aug. 3; Gaz. vol. 217; p. 213.
- Lamp or guard, Night. W. A. Richins. No. 1,125,308; Jan. 19; Gaz. vol. 210; p. 856.
- Lamp or lantern, Electric flash. A. L. Edwards. No. 1,152,082; Aug. 31; Gaz. vol. 217; p. 1530.
- Lamp or lantern, Electric flash. A. L. Edwards. No. 1,152,155; Aug. 31; Gaz. vol. 217; p. 1555.
- Lamp or light. A. E. Shaw. No. 1,166,091; Dec. 28; Gaz. vol. 221; p. 1297.
- Lamp or rectifier, Vapor electric. E. Weintraub. No. 1,134,784; Apr. 6; Gaz. vol. 213; p. 256.
- Lamp, Pilot and night. E. Keen. No. 1,147,949; July 27; Gaz. vol. 216; p. 1107.
- Lamp, Pocket-. O. A. Boehm. No. 1,127,856; Feb. 9; Gaz. vol. 211; p. 459.
- Lamp, Portable acetylene-. A. L. Hansen. No. 1,161,209; Nov. 23; Gaz. vol. 220; p. 1118.
- Lamp, Portable electric. C. Bertram. No. 1,147,205; July 20; Gaz. vol. 216; p. 821.
- Lamp, Portable electric. J. J. Brownrigg, H. Henderson, and A. E. Case. No. 1,128,945; Feb. 16; Gaz. vol. 211; p. 888.
- Lamp, Portable electric. O. C. Dennis. No. 1,148,662; Aug. 3; Gaz. vol. 217; p. 64.
- Lamp, Portable electric. A. C. Recker. No. 1,166,003; Dec. 28; Gaz. vol. 221; p. 1266.
- Lamp, Portable incandescent. W. A. McKay and M. Claussen. No. 1,133,733; Mar. 30; Gaz. vol. 212; p. 1535.
- Lamp portable support, Electric-. O. E. Stahl. No. 1,141,152; June 1; Gaz. vol. 215; p. 21.
- Lamp, Projecting-. C. A. and A. C. Matisse. No. 1,124,051; Jan. 5; Gaz. vol. 210; p. 290.
- Lamp, Railway-crossing-gate. A. K. Macdonald. No. 1,160,303; Nov. 16; Gaz. vol. 220; p. 751.
- Lamp-receptacle. E. F. Guth. No. 1,147,717; July 27; Gaz. vol. 216; p. 1026.
- Lamp receptacle and plug, Electric-. T. A. Morris. No. 1,147,532; July 20; Gaz. vol. 216; p. 935.
- Lamp receptacle, Fender-. E. E. Gray. No. 1,165,090; Dec. 21; Gaz. vol. 221; p. 909.
- Lamp, Reflector-. F. Kratz. No. 1,157,701; Oct. 26; Gaz. vol. 219; p. 949.
- Lamp reflector and shade combined, Automobile. T. Shaffer. No. 1,123,939; Jan. 5; Gaz. vol. 210; p. 252.
- Lamp-reflector, Convertible. M. J. and H. N. Oestreich. No. 1,160,950; Nov. 16; Gaz. vol. 220; p. 981.
- Lamp reflector, Incandescent-. M. Claussen and W. A. McKay. No. 1,162,139; Nov. 30; Gaz. vol. 220; p. 1491.
- Lamp reflector, Stand-. P. M. Hotchkiss. No. 1,164,720; Dec. 21; Gaz. vol. 221; p. 780.
- Lamp reflector, Vapor-. J. C. Pole. No. 1,153,443; Sept. 14; Gaz. vol. 218; p. 421.
- Lamp regulator, Electric-. C. C. Oberly. No. 1,134,346; Apr. 6; Gaz. vol. 213; p. 96.
- Lamp-retaining device, Electric-. H. J. Morey. No. 1,160,435; Nov. 16; Gaz. vol. 220; p. 796.
- Lamp, Safety-. H. Csanyi. No. 1,154,615; Sept. 28; Gaz. vol. 218; p. 890.
- Lamp, Safety-. W. E. Pugh. No. 1,134,062; Mar. 30; Gaz. vol. 212; p. 1646.
- Lamp, Safety-. V. Szamier. No. 1,148,636; Aug. 3; Gaz. vol. 217; p. 55.
- Lamp, Self-contained hydrocarbon-. A. G. Kaufman. No. 1,142,816; June 15; Gaz. vol. 215; p. 682.
- Lamp, Sewing-. V. Kramp and M. Neuber. No. 1,137,985; May 4; Gaz. vol. 214; p. 92.
- Lamp-shade. J. W. Dunham. No. 1,130,496; Mar. 2; Gaz. vol. 212; p. 231.
- Lamp-shade. T. D. Finizio. No. 1,149,817; Aug. 10; Gaz. vol. 217; p. 580.
- Lamp-shade. W. Person and A. C. Abramson. No. 1,123,792; Jan. 5; Gaz. vol. 210; p. 203.
- Lamp-shade. D. Rose. No. 1,142,775; June 8; Gaz. vol. 215; p. 628.
- Lamp-shade. W. Schmidt and P. Müller. No. 1,141,361; June 1; Gaz. vol. 215; p. 98.
- Lamp-shade. I. C. Terry. No. 1,149,004; Aug. 3; Gaz. vol. 217; p. 184.
- Lamp-shade, Auto. W. O. Reuter. No. 1,143,138; June 15; Gaz. vol. 215; p. 795.
- Lamp-shade, Automobile. T. Shaffer. No. 1,123,938; Jan. 5; Gaz. vol. 210; p. 252.
- Lamp-shade holder. H. E. Bandlow. No. 1,135,250; Apr. 13; Gaz. vol. 213; p. 457.
- Lamp-shade holder, Electric-. G. R. Ainsworth. No. 1,125,629; Jan. 19; Gaz. vol. 210; p. 935.
- Lamp-shells, switch-receptacles, and analogous devices, Cap for. C. J. Klein. No. 1,142,818; June 15; Gaz. vol. 215; p. 682.
- Lamp, Signal-. H. T. Aubry and O. M. Schmidt. No. 1,152,264; Aug. 31; Gaz. vol. 217; p. 1592.
- Lamp, Signal-. H. E. Horning and J. L. Subik. No. 1,136,804; Apr. 20; Gaz. vol. 213; p. 1047.
- Lamp, Signal-. G. W. Koob. No. 1,129,833; Feb. 23; Gaz. vol. 211; p. 1229.
- Lamp, Signal-. F. D. Spear. No. 1,145,624; July 6; Gaz. vol. 216; p. 226.
- Lamp-signal for automobiles. T. Mocydlarz. No. 1,133,305; Mar. 30; Gaz. vol. 212; p. 1381.
- Lamp-socket. H. Aiken. No. 1,144,956; June 29; Gaz. vol. 215; p. 1477.
- Lamp-socket. W. F. Anklam. No. 1,153,591; Sept. 14; Gaz. vol. 218; p. 475.
- Lamp-socket. C. J. Klein. No. 1,151,800; Aug. 31; Gaz. vol. 217; p. 1432.
- Lamp-socket. T. O'Donnell. No. 1,163,446; Dec. 7; Gaz. vol. 221; p. 249.
- Lamp-socket and the like. C. J. Klein. No. 1,150,434; Aug. 17; Gaz. vol. 217; p. 858.
- Lamp-socket case, Incandescent-electric-. A. Weber, Sr. No. 1,136,383; Apr. 20; Gaz. vol. 213; p. 897.
- Lamp-socket case, Incandescent-electric-. A. Weber, Sr. No. 1,145,105; July 6; Gaz. vol. 216; p. 47.
- Lamp-socket casing. C. J. Klein. No. 1,146,885; July 20; Gaz. vol. 216; p. 708.
- Lamp-socket casing-cap. C. J. Klein. No. 1,141,120; June 1; Gaz. vol. 215; p. 10.
- Lamp socket, Electric-. C. D. Blackburn. No. 1,157,075; Oct. 19; Gaz. vol. 219; p. 666.
- Lamp socket, Electric-. C. L. Cassidy. No. 1,140,498; May 25; Gaz. vol. 214; p. 1087.
- Lamp socket, Electric-. C. B. Clark. No. 1,153,195; Sept. 14; Gaz. vol. 218; p. 331.
- Lamp socket, Electric-. F. P. Gates and G. A. Gauthier. No. 1,160,063; Nov. 9; Gaz. vol. 220; p. 612.
- Lamp socket, Electric-. C. B. Mills. No. 1,131,724; Mar. 16; Gaz. vol. 212; p. 721.
- Lamp socket, Electric-. A. H. Nero. No. 1,131,541; Mar. 9; Gaz. vol. 212; p. 623.
- Lamp socket-holding shell and shade-holder, Combined electric-. H. W. Lawrence. No. 1,145,374; July 6; Gaz. vol. 216; p. 138.
- Lamp-sockets and the like, Cap for. C. J. Klein. No. 1,135,193; Apr. 13; Gaz. vol. 213; p. 438.
- Lamp-sockets and the like, Cap for. C. J. Klein. No. 1,142,819; June 15; Gaz. vol. 215; p. 683.
- Lamp-sockets and the like, Insulating means for. C. J. Klein. No. 1,135,194; Apr. 13; Gaz. vol. 213; p. 439.
- Lamp sockets, Attachment for incandescent-. J. Sachs and C. A. Francis. No. 1,135,207; Apr. 13; Gaz. vol. 213; p. 443.
- Lamp-sockets, pendant-switches, and the like, Casing for. C. J. Klein. No. 1,151,799; Aug. 31; Gaz. vol. 217; p. 1432.
- Lamp, Soldering-. J. N. Haven. No. 1,163,007; Dec. 7; Gaz. vol. 221; p. 96.
- Lamp stand and shade, Knockdown. W. P. Stephenson. No. 1,157,732; Oct. 26; Gaz. vol. 219; p. 960.
- Lamp-stand body. W. A. McKay and M. Claussen. No. 1,142,108; June 8; Gaz. vol. 215; p. 397.
- Lamp stand, Portable electric-. A. Bouchery. No. 1,132,532; Mar. 16; Gaz. vol. 212; p. 1017.
- Lamp standard and shade holder. J. Rose. No. 1,157,180; Oct. 19; Gaz. vol. 219; p. 703.
- Lamp, Street-. A. B. Shaw. No. 1,140,192; May 18; Gaz. vol. 214; p. 944.
- Lamp structure. C. Moru. No. 1,128,893; Feb. 16; Gaz. vol. 211; p. 868.
- Lamp-support. J. C. Ramsey, Jr. No. 1,147,973; July 27; Gaz. vol. 216; p. 1116.
- Lamp-support for automobiles, Dirigible. D. May. No. 1,165,526; Dec. 28; Gaz. vol. 221; p. 1099.
- Lamp support, Hydrocarbon-. A. G. Kaufman. No. 1,142,815; June 15; Gaz. vol. 215; p. 682.

Alphabetical list of inventions—Continued.

- Lamp-supporting deck-bracket. A. H. Welker; No. 1,132,991; Mar. 23; Gaz. vol. 212; p. 1235.
- Lamp-suspension device. C. M. Pitel. No. 1,126,074; Jan. 26; Gaz. vol. 210; p. 1129.
- Lamp system for cars. Signal-. C. C. De Witt. No. 1,161,035; Nov. 23; Gaz. vol. 220; p. 1055.
- Lamp systems, Pressure-tank for vapor-. E. Seltz. No. 1,155,622; Oct. 5; Gaz. vol. 219; p. 102.
- Lamp, Tail-. P. Cooper. No. 1,141,776; June 1; Gaz. vol. 215; p. 242.
- Lamp-trimming indicator, Arc-. R. Fretzdorff. No. 1,159,920; Nov. 9; Gaz. vol. 220; p. 565.
- Lamp, Trouble-. F. A. Walters, W. M. Beckman, and A. W. Kohl. No. 1,146,979; July 20; Gaz. vol. 216; p. 742.
- Lamp, Tubular electric pocket-. G. P. Heinrich. No. 1,141,634; June 1; Gaz. vol. 215; p. 194.
- Lamp, Vehicle-. C. E. Godley. No. 1,125,089; Jan. 19; Gaz. vol. 210; p. 742.
- Lamp, Vehicle-. T. L. Griffiths. No. 1,152,807; Sept. 7; Gaz. vol. 218; p. 157.
- Lamp, Vehicle-. M. M. Riphahn. No. 1,139,725; May 18; Gaz. vol. 214; p. 779.
- Lamp, Vehicle-. A. M. Roland. No. 1,159,274; Nov. 2; Gaz. vol. 220; p. 300.
- Lamp, Vehicle-. H. A. Spear. No. 1,147,344; July 20; Gaz. vol. 216; p. 867.
- Lamp, Wax or paraffin. E. Faltzer. No. 1,123,268; Jan. 5; Gaz. vol. 210; p. 22.
- Lamps, Adjustable holder for pocket electric. D. S. Adler. No. 1,144,087; June 22; Gaz. vol. 215; p. 1150.
- Lamps, Adjustable reflector for incandescent. L. Weidlich. No. 1,152,581; Sept. 7; Gaz. vol. 218; p. 75.
- Lamps and the like, Electric switch for electric. A. H. Miller. No. 1,150,001; Aug. 10; Gaz. vol. 217; p. 646.
- Lamps and the like, Electrical ignition device for automobile-. F. N. Fox. No. 1,139,759; May 18; Gaz. vol. 214; p. 790.
- Lamps, Antitheft device for incandescent. J. Sachs. No. 1,148,538; Aug. 3; Gaz. vol. 217; p. 19.
- Lamps, Apparatus for electrically igniting miners' safety-. V. E. Joyce. No. 1,154,992; Sept. 28; Gaz. vol. 218; p. 1017.
- Lamps, Apparatus for holding and cooling the bulbs of electric. S. G. Rhodes. No. 1,145,613; July 6; Gaz. vol. 216; p. 221.
- Lamps, Automatic lighting and extinguishing apparatus for high-pressure gas-. G. Keith. No. 1,139,361; May 11; Gaz. vol. 214; p. 613.
- Lamps, Basing incandescent. G. Wright. No. 1,156,650; Oct. 12; Gaz. vol. 219; p. 488.
- Lamps, Burner for inverted incandescent gas-. H. Lyon. No. 1,142,594; June 8; Gaz. vol. 215; p. 567.
- Lamps, Cap for incandescent. A. Marin. No. 1,141,400; June 1; Gaz. vol. 215; p. 113.
- Lamps, Device for removing and replacing electric. A. W. Darby. No. 1,166,189; Dec. 28; Gaz. vol. 221; p. 1334.
- Lamps, Device for securing bells, globes, chimneys, or the like to. L. Severin. No. 1,154,064; Sept. 21; Gaz. vol. 218; p. 673.
- Lamps, Drawing refractory materials for incandescent. H. C. G. Remané. No. 1,156,492; Oct. 12; Gaz. vol. 219; p. 432.
- Lamps, Electric flasher for multiple sets of. E. C. Lorenz. No. 1,127,655; Feb. 9; Gaz. vol. 211; p. 384.
- Lamps, Focus attachment for. L. T. Grandy. No. 1,159,492; Nov. 9; Gaz. vol. 220; p. 410.
- Lamps, Focusing device for electric. J. C. Stearns. No. 1,150,552; Aug. 17; Gaz. vol. 217; p. 901.
- Lamps, Friction-igniter for gas-. E. C. Meissner. No. 1,135,128; Apr. 13; Gaz. vol. 213; p. 417.
- Lamps, Globe-holder for electric gas, and other. J. A. Shaw. No. 1,130,113; Mar. 2; Gaz. vol. 212; p. 94.
- Lamps, Glowler for electrical incandescent. O. M. Thowless. No. 1,123,625; Jan. 5; Gaz. vol. 210; p. 147.
- Lamps, Heat-shield for incandescent electric. E. R. Hoff. No. 1,145,837; July 6; Gaz. vol. 216; p. 302.
- Lamps, Lens for. J. R. Shirreffs. No. 1,162,660; Nov. 30; Gaz. vol. 220; p. 1665.
- Lamps, Machine for making arbors for incandescent. H. D. Madden. No. 1,159,853; Nov. 9; Gaz. vol. 220; p. 541.
- Lamps, Means for and process of adjusting incandescent. D. J. McCarthy. No. 1,157,020; Oct. 19; Gaz. vol. 219; p. 647.
- Lamps, Metal cap for electric incandescent. E. Strehler. No. 1,157,057; Oct. 19; Gaz. vol. 219; p. 660.
- Lamps, Mounting metallic filaments on filament-carriers of incandescent. O. Feuerlein and M. von Pirani. No. 1,144,114; June 22; Gaz. vol. 215; p. 1160.
- Lamps, Plug for incandescent electric. W. C. Tregoning. No. 1,125,605; Jan. 19; Gaz. vol. 210; p. 926.
- Lamps, Reflector-arm for electric. M. Chaliier. No. 1,165,944; Dec. 28; Gaz. vol. 221; p. 1245.
- Lamps, Safety attachment for. C. Von Culin. No. 1,132,810; Mar. 23; Gaz. vol. 212; p. 1168.
- Lamps, shades, mirrors, or the like, Adjustable support or bracket for. H. M. Macnaughton-Jones. No. 1,140,051; May 18; Gaz. vol. 214; p. 894.
- Lamps, Swiveling bracket for automobile-. J. Markson. No. 1,161,091; Nov. 16; Gaz. vol. 220; p. 1474.
- Lamps, Terminal connection for electric. F. G. Keyes. No. 1,161,822; Nov. 23; Gaz. vol. 220; p. 1332.
- Lamps, Testing cut-out for arc-. E. J. Guay. No. 1,156,526; Oct. 12; Gaz. vol. 219; p. 443.
- Lamps, Tubular conductor for incandescent electric. G. Weissmann. No. 1,136,384; Apr. 20; Gaz. vol. 213; p. 898.
- Lamps, Weatherproof cap and shell for incandescent electric. C. A. Vetter. No. 1,127,326; Feb. 2; Gaz. vol. 211; p. 231.
- Lamps with metal filaments, Device for incandescent. C. G. H. Remané. No. 1,145,213; July 6; Gaz. vol. 216; p. 82.
- Lampblack-machine. W. H. Davis. No. 1,160,862; Nov. 16; Gaz. vol. 220; p. 950.
- Lampblack substitute. G. Biardone, C. W. Nichols, and F. Bruguere. No. 1,156,742; Oct. 12; Gaz. vol. 219; p. 519.
- Lancet. W. M. Pollock. No. 1,135,465; Apr. 13; Gaz. vol. 213; p. 532.
- Land-anchor. A. B. Chance. No. 1,134,820; Apr. 6; Gaz. vol. 213; p. 267.
- Land-leveler. W. L. Sutton. No. 1,164,142; Dec. 14; Gaz. vol. 221; p. 539.
- Land-packer. C. J. Anderson. No. 1,135,091; Apr. 13; Gaz. vol. 213; p. 404.
- Land-riding device. J. Schmidt. No. 1,160,456; Nov. 16; Gaz. vol. 220; p. 803.
- Land-roller. H. H. Arnett. No. 1,131,654; Mar. 16; Gaz. vol. 212; p. 697.
- Land-roller. E. Cockrum. No. 1,140,575; May 25; Gaz. vol. 214; p. 1112.
- Land roller or pulverizer. W. J. Dunham. (Reissue.) No. 13,921; June 1; Gaz. vol. 215; p. 291.
- Land-rollers and the like, Appliance for. A. Gerlaugh. No. 1,144,897; June 29; Gaz. vol. 215; p. 1459.
- Land-rollers and the like, Demountable roller-section for. R. E. Dunham. No. 1,155,304; Sept. 28; Gaz. vol. 218; p. 1122.
- Lantern. G. R. Farrell. No. 1,164,797; Dec. 21; Gaz. vol. 221; p. 807.
- Lantern. E. Grah. No. 1,162,288; Nov. 30; Gaz. vol. 220; p. 1542.
- Lantern. T. A. Harris. No. 1,162,770; Dec. 7; Gaz. vol. 221; p. 13.
- Lantern. G. W. Hellstrand. No. 1,132,090; Mar. 16; Gaz. vol. 212; p. 854.
- Lantern. G. W. and E. A. Hellstrand. No. 1,132,091; Mar. 16; Gaz. vol. 212; p. 855.
- Lantern. E. R. Hibbard. No. 1,156,229; Oct. 12; Gaz. vol. 219; p. 338.
- Lantern. J. H. Hill. No. 1,130,731; Mar. 9; Gaz. vol. 212; p. 345.
- Lantern. F. Laszczak. No. 1,134,878; Apr. 6; Gaz. vol. 213; p. 285.
- Lantern. E. J. McDade and F. F. Dorsey. No. 1,139,788; May 18; Gaz. vol. 214; p. 800.
- Lantern. L. G. Spencer. No. 1,124,348; Jan. 12; Gaz. vol. 210; p. 443.
- Lantern. L. M. Stoll. No. 1,127,695; Feb. 9; Gaz. vol. 211; p. 398.
- Lantern. J. R. Sutter. No. 1,143,238; June 15; Gaz. vol. 215; p. 832.
- Lantern, Acetylene-. W. Tenbusch. No. 1,152,991; Sept. 7; Gaz. vol. 218; p. 225.
- Lantern and shadowless base, Acetylene-. J. S. Sieren. No. 1,166,267; Dec. 28; Gaz. vol. 221; p. 1365.
- Lantern attachment, Electric-. N. S. Richmond. No. 1,135,049; Apr. 13; Gaz. vol. 213; p. 391.
- Lantern-bail holder. J. H. Hill. No. 1,146,876; July 20; Gaz. vol. 216; p. 705.
- Lantern-carrier. A. F. Olson. No. 1,154,879; Sept. 28; Gaz. vol. 218; p. 979.
- Lantern, Electric. B. K. Bunch. No. 1,130,567; Mar. 2; Gaz. vol. 212; p. 255.
- Lantern, Electric hand-. C. F. Burgess. No. 1,163,887; Dec. 14; Gaz. vol. 221; p. 449.
- Lantern-fastener. A. A. Megargel. No. 1,162,633; Nov. 30; Gaz. vol. 220; p. 1656.
- Lantern, Folding. C. H. Stonebridge. No. 1,152,571; Sept. 7; Gaz. vol. 218; p. 71.
- Lantern for moving pictures. A. J. Stone. No. 1,133,412; Mar. 30; Gaz. vol. 212; p. 1420.
- Lantern guard-frame. W. S. Hamm. No. 1,150,187; Aug. 17; Gaz. vol. 217; p. 774.
- Lantern guard-frame. W. W. Willits. No. 1,156,572; Oct. 12; Gaz. vol. 219; p. 460.
- Lantern-holder. J. and S. O. Stanfield. No. 1,154,071; Sept. 21; Gaz. vol. 218; p. 675.
- Lantern-holder. P. L. Stromstad. No. 1,145,091; July 6; Gaz. vol. 216; p. 43.
- Lantern, Hydrocarbon-. L. Baxter. No. 1,155,464; Oct. 5; Gaz. vol. 219; p. 49.
- Lantern-locking device. I. G. Stutsman. No. 1,155,379; Oct. 5; Gaz. vol. 219; p. 19.
- Lantern or inclosure for lamps. H. Ayrton. No. 1,125,438; Jan. 19; Gaz. vol. 210; p. 869.
- Lantern or lamp support. G. J. Arehart. No. 1,149,320; Aug. 10; Gaz. vol. 217; p. 400.
- Lantern or projectoscope, Enlarging. F. W. Minor. No. 1,136,697; Apr. 20; Gaz. vol. 213; p. 1009.

Alphabetical list of inventions—Continued.

- Lantern, Projecting. E. Unger. No. 1,130,451; Mar. 2; Gaz. vol. 212; p. 213.
- Lantern, Projection. J. T. Roffy. No. 1,159,418; Nov. 9; Gaz. vol. 220; p. 384.
- Lantern, Projection. J. T. Roffy. No. 1,159,419; Nov. 9; Gaz. vol. 220; p. 384.
- Lantern, Self-contained projecting. R. M. Dixon. No. 1,139,852; May 18; Gaz. vol. 214; p. 823.
- Lantern-slide. F. A. Apfelbaum. No. 1,132,423; Mar. 16; Gaz. vol. 212; p. 976.
- Lantern-slide. A. V. Cauger. No. 1,142,143; June 8; Gaz. vol. 215; p. 408.
- Lantern-slide. G. P. Smith. No. 1,149,693; Aug. 10; Gaz. vol. 217; p. 535.
- Lantern-slide-shifting device. S. O. Kastner. No. 1,159,681; Nov. 9; Gaz. vol. 220; p. 477.
- Lantern-slide-projecting machine, Automatic. W. C. Carver. No. 1,165,318; Dec. 21; Gaz. vol. 221; p. 987.
- Lantern, Tubular. A. L. Edwards. No. 1,129,562; Feb. 23; Gaz. vol. 211; p. 1139.
- Lantern, Tubular. W. McArthur, Jr. No. 1,146,338; July 13; Gaz. vol. 216; p. 496.
- Lantern, Tubular. B. H. Pomeroy. No. 1,130,429; Mar. 2; Gaz. vol. 212; p. 205.
- Lap-stand. H. D. Turner. No. 1,144,161; June 22; Gaz. vol. 215; p. 1177.
- Lapping-machine. D. T. Hastings. No. 1,139,520; May 18; Gaz. vol. 214; p. 706.
- Lard and the like, Rendering. E. E. Burkle. No. 1,124,852; Jan. 12; Gaz. vol. 210; p. 624.
- Last. C. A. Batchelder. No. 1,162,330; Nov. 30; Gaz. vol. 220; p. 1557.
- Last. G. E. Belcher. No. 1,134,502; Apr. 6; Gaz. vol. 213; p. 153.
- Last. G. E. Belcher. No. 1,134,503; Apr. 6; Gaz. vol. 213; p. 153.
- Last. G. E. Belcher. No. 1,134,504; Apr. 6; Gaz. vol. 213; p. 153.
- Last. G. E. Belcher. No. 1,134,505; Apr. 6; Gaz. vol. 213; p. 154.
- Last. G. E. Belcher. No. 1,134,506; Apr. 6; Gaz. vol. 213; p. 154.
- Last. F. E. Benton. No. 1,150,735; Aug. 17; Gaz. vol. 217; p. 963.
- Last. E. D. Gallagher. No. 1,141,326; June 1; Gaz. vol. 215; p. 85.
- Last. J. W. Holmes. No. 1,149,196; Aug. 10; Gaz. vol. 217; p. 354.
- Last. L. E. Johnson. No. 1,164,096; Dec. 14; Gaz. vol. 221; p. 522.
- Last. S. D. Layman. No. 1,146,266; July 13; Gaz. vol. 216; p. 472.
- Last. A. M. Lund. No. 1,135,053; Apr. 13; Gaz. vol. 213; p. 384.
- Last. W. J. MacFarland. No. 1,159,693; Nov. 9; Gaz. vol. 220; p. 481.
- Last. J. W. McDevitt. No. 1,140,335; May 18; Gaz. vol. 214; p. 992.
- Last. F. Pierce and N. Theriault. No. 1,140,850; May 25; Gaz. vol. 214; p. 1207.
- Last. J. H. Pope. No. 1,137,421; Apr. 27; Gaz. vol. 213; p. 1308.
- Last. E. E. Sullivan. No. 1,125,601; Jan. 19; Gaz. vol. 210; p. 925.
- Last. J. E. Tilt. No. 1,145,945; July 13; Gaz. vol. 216; p. 359.
- Last, Collapsible. W. A. Krentler. No. 1,139,040; May 11; Gaz. vol. 214; p. 503.
- Last, Darning. E. M. Olson. No. 1,140,705; May 25; Gaz. vol. 214; p. 1156.
- Last for boots and shoes. D. Duhalde. No. 1,165,950; Dec. 28; Gaz. vol. 221; p. 1248.
- Last for boots and shoes. L. Q. White. No. 1,152,679; Sept. 7; Gaz. vol. 218; p. 111.
- Last for footwear. E. Müller. No. 1,130,423; Mar. 2; Gaz. vol. 212; p. 203.
- Last, Hinged. S. D. Layman. No. 1,144,364; June 29; Gaz. vol. 215; p. 1277.
- Last, Hinged. S. D. Layman. No. 1,144,365; June 29; Gaz. vol. 215; p. 1276.
- Last, Interchangeable. P. H. Hickman. No. 1,125,096; Jan. 19; Gaz. vol. 210; p. 745.
- Last, Shoe. A. R. Anderson. No. 1,163,630; Dec. 14; Gaz. vol. 221; p. 357.
- Last, Shoe. G. Clausung. No. 1,128,586; Feb. 16; Gaz. vol. 211; p. 761.
- Last, Shoe. C. Schaefer. No. 1,141,584; June 1; Gaz. vol. 215; p. 178.
- Last, Steam-heated. W. H. O'Connor. No. 1,155,087; Sept. 28; Gaz. vol. 218; p. 1052.
- Last-tube. H. O. Davis. No. 1,153,201; Sept. 14; Gaz. vol. 218; p. 333.
- Lasts, Altering the designs of shoe. E. P. Blanchard, A. C. Smith, and G. W. Bouldry. No. 1,128,096; Feb. 9; Gaz. vol. 211; p. 543.
- Lasts, Machine for working uppers over. R. F. McFeely. No. 1,135,958; Apr. 13; Gaz. vol. 213; p. 706.
- Lasting and stapling machine. E. A. Stiggins. No. 1,163,598; Dec. 7; Gaz. vol. 221; p. 302.
- Lasting and stapling machine, Shoe. J. A. Kelly. No. 1,128,609; Feb. 16; Gaz. vol. 211; p. 769.
- Lasting apparatus. G. Bergman. No. 1,161,918; Nov. 30; Gaz. vol. 220; p. 1413.
- Lasting boots and shoes. J. A. Eldridge. No. 1,145,979; July 13; Gaz. vol. 216; p. 371.
- Lasting device. W. H. Atkins. No. 1,143,798; June 22; Gaz. vol. 215; p. 1048.
- Lasting-machine. H. A. Ballard. No. 1,131,983; Mar. 16; Gaz. vol. 212; p. 817.
- Lasting-machine. W. J. Briscoe. No. 1,131,672; Mar. 16; Gaz. vol. 212; p. 704.
- Lasting-machine. M. Brock. No. 1,142,550; June 8; Gaz. vol. 215; p. 552.
- Lasting-machine. J. Fausse. No. 1,128,303; Feb. 16; Gaz. vol. 211; p. 665.
- Lasting-machine. J. J. Gillespie. No. 1,150,591; Aug. 17; Gaz. vol. 217; p. 914.
- Lasting-machine. R. F. McFeely. No. 1,125,360; Jan. 19; Gaz. vol. 210; p. 841.
- Lasting-machine. R. F. McFeely. No. 1,162,704; Nov. 30; Gaz. vol. 220; p. 1680.
- Lasting-machine. M. D. Phean. No. 1,124,946; Jan. 12; Gaz. vol. 210; p. 657.
- Lasting-machine. T. G. Plant. No. 1,126,856; Feb. 2; Gaz. vol. 211; p. 69.
- Lasting-machine. A. L. Russell. No. 1,163,597; Dec. 7; Gaz. vol. 221; p. 301.
- Lasting-machine. J. W. Ryberg. No. 1,157,729; Oct. 26; Gaz. vol. 219; p. 959.
- Lasting-machine. R. C. Simmons. No. 1,129,047; Feb. 16; Gaz. vol. 211; p. 924.
- Lasting-machine. E. E. Winkley. No. 1,163,800; Dec. 14; Gaz. vol. 221; p. 420.
- Lasting machine, End-. J. Cavanagh. No. 1,130,142; Mar. 2; Gaz. vol. 212; p. 104.
- Lasting-machine, Hand-method. F. F. Eno. No. 1,132,535; Mar. 16; Gaz. vol. 212; p. 1018.
- Lasting machine, Heel-. A. L. Russell. No. 1,132,978; Mar. 23; Gaz. vol. 212; p. 1229.
- Lasting machine, Heel-seat-. R. F. McFeely. No. 1,129,883; Mar. 2; Gaz. vol. 212; p. 18.
- Lasting-machine holddown. M. Brock. No. 1,134,253; Apr. 6; Gaz. vol. 213; p. 63.
- Lasting-machine holddown. F. W. Eager. No. 1,142,152; June 8; Gaz. vol. 215; p. 411.
- Lasting machine, Shoe-. J. Cavanagh. No. 1,163,600; Dec. 7; Gaz. vol. 221; p. 303.
- Lasting machine, Stitch-down-shoe-. P. T. Beler. No. 1,152,694; Sept. 7; Gaz. vol. 218; p. 116.
- Lasting-machine toe-clamp. M. Brock. No. 1,143,939; June 22; Gaz. vol. 215; p. 1097.
- Lasting-shell and upper-protector. C. H. Nickerson. No. 1,134,284; Apr. 6; Gaz. vol. 213; p. 74.
- Lasting shoes. M. Brock. No. 1,142,549; June 8; Gaz. vol. 215; p. 551.
- Lasting, Tackless. A. Straub. No. 1,124,184; Jan. 5; Gaz. vol. 210; p. 336.
- Lasting toes. A. L. Russell. No. 1,124,958; Jan. 12; Gaz. vol. 210; p. 661.
- Lasting toes, Apparatus for use in. E. L. Keyes. No. 1,143,971; June 22; Gaz. vol. 215; p. 1108.
- Latch. F. Behm. No. 1,131,315; Mar. 9; Gaz. vol. 212; p. 546.
- Latch. H. Bitner. No. 1,124,278; Jan. 12; Gaz. vol. 210; p. 418.
- Latch. P. Casey. No. 1,144,587; June 29; Gaz. vol. 215; p. 1350.
- Latch. D. S. Cole. No. 1,131,826; Mar. 16; Gaz. vol. 212; p. 760.
- Latch. E. Crompton, Jr. No. 1,132,705; Mar. 23; Gaz. vol. 212; p. 1128.
- Latch. H. G. Hartog. No. 1,125,524; Jan. 19; Gaz. vol. 210; p. 898.
- Latch. W. F. Hays. No. 1,142,166; June 8; Gaz. vol. 215; p. 417.
- Latch. L. J. House. No. 1,166,216; Dec. 28; Gaz. vol. 221; p. 1345.
- Latch. F. Kamm. No. 1,152,104; Aug. 31; Gaz. vol. 217; p. 1537.
- Latch. J. Shand. No. 1,165,912; Dec. 28; Gaz. vol. 221; p. 1234.
- Latch. H. Weide. No. 1,137,818; May 4; Gaz. vol. 214; p. 33.
- Latch. H. Weide. No. 1,137,819; May 4; Gaz. vol. 214; p. 34.
- Latch. W. H. Whittier. No. 1,140,553; May 25; Gaz. vol. 214; p. 1106.
- Latch and lock, Combined. G. H. Van Winkle. No. 1,128,392; Feb. 16; Gaz. vol. 211; p. 693.
- Latch and lock, Combined door. J. Perich. No. 1,156,548; Oct. 12; Gaz. vol. 219; p. 451.
- Latch, Barrel-cover. C. B. B. Medlock. No. 1,144,489; June 29; Gaz. vol. 215; p. 1318.
- Latch, Car-door. T. W. Thorne. No. 1,127,116; Feb. 2; Gaz. vol. 211; p. 160.
- Latch, Coach-. W. F. Hampton. No. 1,147,322; July 20; Gaz. vol. 216; p. 859.
- Latch, Container-. M. H. Stoll. No. 1,154,739; Sept. 28; Gaz. vol. 218; p. 932.
- Latch device for holding automobile and other doors in ventilating position. J. G. Lydecker. No. 1,151,889; Aug. 31; Gaz. vol. 217; p. 1464.

Alphabetical list of inventions—Continued.

- Latch, Door-. O. R. Bull. No. 1,126,700; Feb. 2; Gaz. vol. 211; p. 11.
- Latch, Door-. R. D. Demirjean. No. 1,134,038; Mar. 30; Gaz. vol. 212; p. 1639.
- Latch, Door-. H. A. Holt. No. 1,133,437; Mar. 30; Gaz. vol. 212; p. 1428.
- Latch, Door-. M. J. Keough. No. 1,137,863; May 4; Gaz. vol. 214; p. 49.
- Latch, Door-. J. H. McCann. No. 1,165,614; Dec. 28; Gaz. vol. 221; p. 1131.
- Latch, Door-. C. J. Nelson. No. 1,145,788; July 6; Gaz. vol. 216; p. 284.
- Latch, Door-. F. B. Richardson. No. 1,139,311; May 11; Gaz. vol. 214; p. 594.
- Latch, Door-. V. C. Vickers. No. 1,147,284; July 20; Gaz. vol. 216; p. 847.
- Latch, Door-. J. W. Whitaker. No. 1,124,983; Jan. 12; Gaz. vol. 210; p. 670.
- Latch, Door-. V. Zsurzsis. No. 1,137,107; Apr. 27; Gaz. vol. 213; p. 1192.
- Latch, Door or gate. J. H. Clark. No. 1,165,493; Dec. 28; Gaz. vol. 221; p. 1089.
- Latch, Electric door-. T. S. Torresson. No. 1,139,087; May 11; Gaz. vol. 214; p. 519.
- Latch-fastener for doors. T. O. Schrader. No. 1,128,727; Feb. 16; Gaz. vol. 211; p. 809.
- Latch for oven-doors, Antislammings-. H. B. North and J. W. Gibney. No. 1,153,514; Sept. 14; Gaz. vol. 218; p. 447.
- Latch for swinging and sliding doors. F. F. Pinnow. No. 1,128,502; Feb. 16; Gaz. vol. 211; p. 733.
- Latch for telescopic sections. T. J. Mitchell and J. A. McCreary. No. 1,125,866; Jan. 19; Gaz. vol. 210; p. 1018.
- Latch for trunks and the like. H. L. Snedaker. No. 1,163,569; Dec. 7; Gaz. vol. 221; p. 291.
- Latch for vehicle-doors. M. R. Hull. No. 1,154,398; Sept. 21; Gaz. vol. 218; p. 788.
- Latch for vehicles, Door-. E. K. Inonye. No. 1,161,772; Nov. 23; Gaz. vol. 220; p. 1314.
- Latch, Gate-. L. E. Bailey. No. 1,140,562; May 25; Gaz. vol. 214; p. 1109.
- Latch, Gate-. D. C. Dillabough. No. 1,126,728; Feb. 2; Gaz. vol. 211; p. 22.
- Latch, Gate-. O. C. Kerfoot. No. 1,159,393; Nov. 9; Gaz. vol. 220; p. 374.
- Latch, Gate-. H. Kuhnenn. No. 1,164,365; Dec. 14; Gaz. vol. 221; p. 616.
- Latch, Gate-. L. Swank. No. 1,127,825; Feb. 9; Gaz. vol. 211; p. 449.
- Latch, Gate-. L. Swank. No. 1,141,080; May 25; Gaz. vol. 214; p. 1286.
- Latch, Gate-. E. J. Taylor. No. 1,138,026; May 4; Gaz. vol. 214; p. 105.
- Latch, Gate-. W. C. Vesper. No. 1,138,516; May 4; Gaz. vol. 214; p. 278.
- Latch, Gate-. W. K. Voorhees and F. A. Anderson. No. 1,134,301; Apr. 6; Gaz. vol. 213; p. 80.
- Latch, Gripping-. E. Erickson and P. Sjostrom. No. 1,123,716; Jan. 5; Gaz. vol. 210; p. 177.
- Latch, Lever-. A. E. Smith. No. 1,143,452; June 15; Gaz. vol. 215; p. 907.
- Latch, Lever-. S. L. Wade. No. 1,125,415; Jan. 19; Gaz. vol. 210; p. 861.
- Latch mechanism for furniture. J. Bodenstein. No. 1,160,105; Nov. 9; Gaz. vol. 220; p. 628.
- Latch-mounting. A. W. Walker. No. 1,154,676; Sept. 28; Gaz. vol. 218; p. 912.
- Latch, Night-. J. H. Shaw. No. 1,137,800; May 4; Gaz. vol. 214; p. 27.
- Latch, Night-. W. E. Sparks. No. 1,148,549; Aug. 3; Gaz. vol. 217; p. 23.
- Latch or the like, Gate-. J. B. Clay. No. 1,135,768; Apr. 13; Gaz. vol. 213; p. 639.
- Latch protector or preserver. W. J. Elliott. No. 1,139,262; May 11; Gaz. vol. 214; p. 579.
- Latch, Safety door or gate. J. O. Ford. No. 1,163,397; Dec. 7; Gaz. vol. 221; p. 232.
- Latch, Sash-. J. M. De Witt. No. 1,128,233; Feb. 9; Gaz. vol. 211; p. 589.
- Latch, Shutter-. H. Ebert. No. 1,158,657; Nov. 2; Gaz. vol. 220; p. 88.
- Latch-spring fastener. B. R. Crampton. No. 1,157,086; Oct. 19; Gaz. vol. 219; p. 670.
- Latching device. E. W. Vest. No. 1,136,065; Apr. 20; Gaz. vol. 213; p. 784.
- Latex and sheeting the coagulated product, Apparatus for treating. L. Norzagaray. No. 1,164,850; Dec. 21; Gaz. vol. 221; p. 826.
- Latex and the extraction of india-rubber therefrom, Treatment of. S. C. Davidson. No. 1,145,351; July 6; Gaz. vol. 216; p. 130.
- Latex, Extraction or coagulation of india-rubber from the. S. C. Davidson. No. 1,145,352; July 6; Gaz. vol. 216; p. 130.
- Latex-treating apparatus. H. A. Wickham. No. 1,126,327; Jan. 26; Gaz. vol. 210; p. 1220.
- Latex, Treatment of. S. C. Davidson. No. 1,146,851; July 20; Gaz. vol. 216; p. 696.
- Lath and heat-insulating material, Composite. G. H. Ellis. No. 1,126,186; Jan. 26; Gaz. vol. 210; p. 1170.
- Lath and heat-insulating material, Composite. G. H. Ellis. No. 1,126,187; Jan. 26; Gaz. vol. 210; p. 1170.
- Lath-board. S. M. Ford. No. 1,156,866; Oct. 12; Gaz. vol. 219; p. 563.
- Lath-board. S. M. Ford. No. 1,160,271; Nov. 16; Gaz. vol. 220; p. 740.
- Lath, Expanded sheet-metal. F. C. Arey. No. 1,166,107; Dec. 28; Gaz. vol. 221; p. 1302.
- Lathing and concrete-reinforcing structure, Metallic. W. H. Burk. No. 1,147,000; July 20; Gaz. vol. 216; p. 750.
- Lathing, Flexible. O. Rechnitz. No. 1,124,170; Jan. 5; Gaz. vol. 210; p. 331.
- Lathing, Ribbed expanded-metal. F. C. Arey. No. 1,164,160; Dec. 14; Gaz. vol. 221; p. 544.
- Lathe. H. L. Beeler. No. 1,124,262; Jan. 12; Gaz. vol. 210; p. 411.
- Lathe. E. W. Blum. No. 1,143,502; June 15; Gaz. vol. 215; p. 954.
- Lathe. B. H. Clement. No. 1,134,374; Apr. 6; Gaz. vol. 213; p. 106.
- Lathe. W. A. McElroy. No. 1,135,035; Apr. 13; Gaz. vol. 213; p. 385.
- Lathe. W. E. Severance. No. 139,235; May 11; Gaz. vol. 214; p. 570.
- Lathe. E. R. Seward. No. 1,164,759; Dec. 21; Gaz. vol. 221; p. 793.
- Lathe. H. C. Simons. No. 1,136,178; Apr. 20; Gaz. vol. 213; p. 824.
- Lathe attachment. H. W. Oster. No. 1,139,063; May 11; Gaz. vol. 214; p. 511.
- Lathe attachment. J. Patterson. No. 1,137,892; May 4; Gaz. vol. 214; p. 59.
- Lathe attachment. A. E. Wickland and A. T. Britton. No. 1,138,821; May 11; Gaz. vol. 214; p. 425.
- Lathe, Automatic. K. Jung. No. 1,140,463; May 25; Gaz. vol. 214; p. 1073.
- Lathe, Automatic. K. Tessky. No. 1,158,745; Nov. 2; Gaz. vol. 220; p. 116.
- Lathe, Automatic. A. C. Veith. No. 1,146,374; July 13; Gaz. vol. 216; p. 509.
- Lathe, Automatic chucking-. J. Hartness. No. 1,130,276; Mar. 2; Gaz. vol. 212; p. 151.
- Lathe, Automatic multiple-spindle. C. M. Conradson. No. 1,140,299; May 18; Gaz. vol. 214; p. 979.
- Lathe-chuck, Automatic. C. M. Conradson. No. 1,125,479; Jan. 19; Gaz. vol. 210; p. 882.
- Lathe control, Mechanical. H. Kienzle. No. 1,157,227; Oct. 19; Gaz. vol. 219; p. 720.
- Lathe-dog. W. R. Davis. No. 1,155,553; Oct. 5; Gaz. vol. 219; p. 80.
- Lathe-dog. H. M. Reynolds. No. 1,124,172; Jan. 5; Gaz. vol. 210; p. 331.
- Lathe-dog, Automatic. J. Miller. No. 1,149,148; Aug. 3; Gaz. vol. 217; p. 232.
- Lathe, Engine-. G. C. Gardner and J. A. Grow. No. 1,139,026; May 11; Gaz. vol. 214; p. 499.
- Lathe for cutting forms. F. M. Ross. No. 1,162,255; Nov. 30; Gaz. vol. 220; p. 1531.
- Lathe for the turning of wheels. E. Blau. No. 1,129,545; Feb. 23; Gaz. vol. 211; p. 1133.
- Lathe-grinder attachment. T. E. Wood and W. H. Safford, Jr. No. 1,137,371; Apr. 27; Gaz. vol. 213; p. 1289.
- Lathe grinding attachment. F. M. Smith. No. 1,161,260; Nov. 23; Gaz. vol. 220; p. 1137.
- Lathe grinding attachment. D. Vandewater. No. 1,148,729; Aug. 3; Gaz. vol. 217; p. 88.
- Lathe, Multiple-spindle. L. M. Waite. No. 1,125,779; Jan. 19; Gaz. vol. 210; p. 991.
- Lathe, Multispindle. J. Hartness. No. 1,130,277; Mar. 2; Gaz. vol. 212; p. 152.
- Lathe or the like. L. I. Yeomans. No. 1,154,155; Sept. 21; Gaz. vol. 218; p. 703.
- Lathe tool-holder. H. R. Liebstein. No. 1,161,056; Nov. 23; Gaz. vol. 220; p. 1063.
- Lathe tool-holder. J. J. Noonan. No. 1,128,714; Feb. 16; Gaz. vol. 211; p. 805.
- Lathe tool-holder. T. B. Van Auken. No. 1,133,591; Mar. 30; Gaz. vol. 212; p. 1484.
- Lathe tool-holder. F. D. Van Norman. No. 1,141,854; June 1; Gaz. vol. 215; p. 267.
- Lathe tool-holder. C. F. Waite. No. 1,158,753; Nov. 2; Gaz. vol. 220; p. 120.
- Lathe-tool-holding device. L. M. Waite. No. 1,125,778; Jan. 19; Gaz. vol. 210; p. 990.
- Lathe, Turning-. R. J. Edwards and C. B. Greene. No. 1,144,535; June 29; Gaz. vol. 215; p. 1333.
- Lathe, Turning-. R. C. Fay. No. 1,132,920; Mar. 23; Gaz. vol. 212; p. 1206.
- Lathe-turret. W. L. Fay. No. 1,151,004; Aug. 24; Gaz. vol. 217; p. 1113.
- Lathe, Apparatus for adjusting multiple-cutter holders of turning-. H. Petz. No. 1,142,362; June 8; Gaz. vol. 215; p. 485.
- Lathe, Apparatus for speed control for. H. Kienzle. No. 1,128,687; Feb. 16; Gaz. vol. 211; p. 796.
- Lathe, Automatic brake for. W. L. Miller. No. 1,139,555; May 18; Gaz. vol. 214; p. 718.
- Lathe, Diameter-stop for. W. L. Fay. No. 1,154,107; Sept. 21; Gaz. vol. 218; p. 687.
- Lathe, Milling attachment for. G. W. Fleming. No. 1,125,285; Jan. 19; Gaz. vol. 210; p. 814.

Alphabetical list of inventions—Continued.

- Lathes, Milling attachment for. J. Hogarth. No. 1,126,763; Feb. 2; Gaz. vol. 211; p. 35.
- Lathes, T-rest for. H. J. Hjorth. No. 1,127,890; Feb. 9; Gaz. vol. 211; p. 472.
- Lathes, Tool-post for. F. C. Kehr. No. 1,134,460; Apr. 6; Gaz. vol. 213; p. 138.
- Lathes, Turret attachment for. G. T. Shearer. No. 1,135,329; Apr. 13; Gaz. vol. 213; p. 485.
- Lathes, Turret-slide mechanism for turret-. J. C. Potter. No. 1,140,479; May 25; Gaz. vol. 214; p. 1080.
- Lathes, Upper-slide mounting for multiple-spindle. W. Schmitt. No. 1,151,296; Aug. 24; Gaz. vol. 217; p. 1213.
- Lather-producing device. H. Reiche. No. 1,139,228; May 11; Gaz. vol. 214; p. 567.
- Lathering implement. T. G. Morgan. No. 1,146,646; July 13; Gaz. vol. 216; p. 606.
- Laundries, Shirt-finishing device for. C. C. King, C. B. Lambert, and J. H. Gible. No. 1,158,234; Oct. 26; Gaz. vol. 219; p. 1135.
- Laundry-bag. C. Izett. No. 1,136,138; Apr. 20; Gaz. vol. 213; p. 809.
- Laundry-dripboard. E. Jordan. No. 1,138,661; May 11; Gaz. vol. 214; p. 366.
- Laundry-extractor. F. M. Overholt and F. M. Steiner. No. 1,153,701; Sept. 14; Gaz. vol. 218; p. 512.
- Laundry-iron, Electric. M. K. Golden. No. 1,123,520; Jan. 5; Gaz. vol. 210; p. 110.
- Laundry-machine. H. S. Judd and H. Pletsch. No. 1,131,842; Mar. 16; Gaz. vol. 212; p. 767.
- Laundry-machine. C. J. Shimer. No. 1,123,408; Jan. 5; Gaz. vol. 210; p. 73.
- Laundry machinery. R. E. Kolle. No. 1,163,668; Dec. 14; Gaz. vol. 221; p. 370.
- Laundry-marking machine. C. A. Bunker. No. 1,127,728; Feb. 9; Gaz. vol. 211; p. 412.
- Laundry-marking machine. G. H. Lang. No. 1,143,768; June 22; Gaz. vol. 215; p. 1038.
- Laundry-roll, Electric. W. S. Hadaway, Jr. No. 1,156,223; Oct. 12; Gaz. vol. 219; p. 336.
- Laundry-roll regulator. W. S. Hadaway, Jr. No. 1,155,481; Oct. 5; Gaz. vol. 219; p. 55.
- Laundry sundry. H. L. Kingsley. No. 1,141,345; June 1; Gaz. vol. 215; p. 91.
- Laundry tray or tub. O. E. Ross. No. 1,124,812; Jan. 12; Gaz. vol. 210; p. 610.
- Laundry-valve, Automatic. C. A. Lindgren and W. H. Perkins. No. 1,159,967; Nov. 9; Gaz. vol. 220; p. 581.
- Lavatories and the like, Manufacture of. R. E. Crane. No. 1,138,629; May 11; Gaz. vol. 214; p. 355.
- Lavatories, Combination supply and waste fixture for. W. A. Speakman. (Reissue.) No. 13,943; July 6; Gaz. vol. 216; p. 316.
- Lavatories or similar articles, Anchorage or support for. J. H. Crabel. No. 1,127,596; Feb. 9; Gaz. vol. 211; p. 366.
- Lavatory. J. W. Atlee. No. 1,129,325; Feb. 23; Gaz. vol. 211; p. 1055.
- Lavatory. J. A. Kavanagh. No. 1,134,866; Apr. 6; Gaz. vol. 213; p. 281.
- Lavatory. E. G. Watrous. No. 1,162,834; Dec. 7; Gaz. vol. 221; p. 36.
- Lavatory apparatus. W. Bunting. No. 1,150,098; Aug. 17; Gaz. vol. 217; p. 741.
- Lavatory apparatus. W. S. Graham. No. 1,144,704; June 29; Gaz. vol. 215; p. 1391.
- Lavatory-fitting. W. W. Jackson. No. 1,134,743; Apr. 6; Gaz. vol. 213; p. 241.
- Lavatory-fixture. E. J. Bloom. No. 1,136,091; Apr. 20; Gaz. vol. 213; p. 793.
- Lavatory-strike. O. Katzenberger. No. 1,131,384; Mar. 9; Gaz. vol. 212; p. 568.
- Lawn and garden rake. C. J. Rethorn. No. 1,131,553; Mar. 9; Gaz. vol. 212; p. 627.
- Lawn and garden sprinkler, Portable. G. J. Nikola. No. 1,129,715; Feb. 23; Gaz. vol. 211; p. 1188.
- Lawn-edge trimmer. J. J. Breach. No. 1,135,989; Apr. 20; Gaz. vol. 213; p. 759.
- Lawn-edger. J. H. Boge. No. 1,163,882; Dec. 14; Gaz. vol. 221; p. 447.
- Lawn-edger. P. Imhof and W. J. Kelly. No. 1,139,978; May 18; Gaz. vol. 214; p. 868.
- Lawn-edger. C. A. Isaacs. No. 1,152,093; Aug. 31; Gaz. vol. 217; p. 1534.
- Lawn-rake. H. A. Hovenden. No. 1,133,964; Mar. 30; Gaz. vol. 212; p. 1613.
- Lawn-sprinkler. W. U. Briggs and H. M. Michael. No. 1,135,495; Apr. 13; Gaz. vol. 213; p. 543.
- Lawn-sprinkler. J. F. Bustin. No. 1,126,614; Jan. 16; Gaz. vol. 210; p. 1324.
- Lawn-sprinkler. E. E. Howard. No. 1,163,152; Dec. 7; Gaz. vol. 221; p. 145.
- Lawn-sprinkler. H. L. Lord. No. 1,142,448; June 8; Gaz. vol. 215; p. 517.
- Lawn-sprinkler, Automatic. F. C. Stetter. No. 1,146,663; July 13; Gaz. vol. 216; p. 611.
- Lawn-sprinkler, Oscillating. C. Watson. No. 1,155,115; Sept. 28; Gaz. vol. 218; p. 1061.
- Lawn-trimmer. A. Huberty. No. 1,163,238; Dec. 7; Gaz. vol. 221; p. 176.
- Lawn-trimmer. L. C. Huck. No. 1,127,764; Feb. 9; Gaz. vol. 211; p. 425.
- Lay-off and pulverizing machine. C. L. Allen. No. 1,160,120; Nov. 16; Gaz. vol. 220; p. 687.
- Laying-machine. F. W. Vickery. No. 1,144,268; June 22; Gaz. vol. 215; p. 1214.
- Layboy. G. E. Williamson. No. 1,146,469; July 13; Gaz. vol. 216; p. 546.
- Leaching ores and the like, Apparatus for. P. A. Robbins. No. 1,160,200; Nov. 16; Gaz. vol. 220; p. 715.
- Leaching sacchariferous-vegetable slices, Apparatus for. M. Paschen. No. 1,134,152; Apr. 6; Gaz. vol. 213; p. 24.
- Lead and zinc contained in the state of sulfids in ores, Industrial separation of. G. De Bechli. No. 1,157,153; Oct. 19; Gaz. vol. 219; p. 693.
- Lead, Apparatus for making white. C. Ellis. No. 1,144,701; June 29; Gaz. vol. 215; p. 1390.
- Lead arsenate, Manufacturing. E. O. Barstow. No. 1,141,920; June 8; Gaz. vol. 215; p. 330.
- Lead-making apparatus, White. L. V. Barton and W. P. Thompson. No. 1,152,693; Sept. 7; Gaz. vol. 218; p. 115.
- Lead, Manufacture of white. C. White and J. W. Patterson. No. 1,163,052; Dec. 7; Gaz. vol. 221; p. 111.
- Lead paste from red or orange lead, Manufacture of. W. Eckford. No. 1,128,961; Feb. 16; Gaz. vol. 211; p. 894.
- Lead, Process of and apparatus for comminuting. C. D. Holley. No. 1,156,079; Oct. 12; Gaz. vol. 219; p. 289.
- Lead, Treating. C. Ellis. No. 1,141,177; June 1; Gaz. vol. 215; p. 31.
- Leaf-spring. L. M. Felts. No. 1,146,318; July 13; Gaz. vol. 216; p. 489.
- Leaf-turner. R. A. Gibson and J. B. Sartolou. No. 1,127,227; Feb. 2; Gaz. vol. 211; p. 198.
- Leaf-turner. F. E. Rodliff. No. 1,130,108; Mar. 2; Gaz. vol. 212; p. 92.
- Leaf-turning device. C. J. Bender. No. 1,136,927; Apr. 27; Gaz. vol. 213; p. 1126.
- Leaf-turning mechanism. R. R. Walker. No. 1,164,242; Dec. 14; Gaz. vol. 221; p. 570.
- Leaves, refuse, or large particles carried along by water or all flowing fluids, Automatic apparatus for removing. E. A. L. Guin. No. 1,128,602; Feb. 16; Gaz. vol. 211; p. 767.
- Leak-stopper. G. E. Jupp. No. 1,153,796; Sept. 14; Gaz. vol. 218; p. 545.
- Lease-forming device. E. and L. Holt. No. 1,137,622; Apr. 27; Gaz. vol. 213; p. 1374.
- Lease-forming mechanism. G. F. Slipp. No. 1,147,654; July 20; Gaz. vol. 216; p. 978.
- Leash. H. Kunze. No. 1,161,870; Nov. 30; Gaz. vol. 220; p. 1395.
- Leather and like purposes, Machine for pebbling and glazing. J. R. Cameron and W. J. Dennin. No. 1,137,119; Apr. 27; Gaz. vol. 213; p. 1197.
- Leather and making the same, Artificial. L. Lillienfeld. No. 1,140,174; May 18; Gaz. vol. 214; p. 938.
- Leather and other fabrics, Machine for trimming. J. H. Nangle. No. 1,160,946; Nov. 16; Gaz. vol. 220; p. 979.
- Leather-board and preparing the same, Waterproof. F. B. Gallivan. No. 1,142,953; June 15; Gaz. vol. 215; p. 731.
- Leather-board and producing the same. A. L. Clapp. No. 1,131,039; Mar. 9; Gaz. vol. 212; p. 451.
- Leather-board machine. R. A. Lancey. No. 1,123,322; Jan. 5; Gaz. vol. 210; p. 43.
- Leather-board machine. C. Perkins. No. 1,127,807; Feb. 9; Gaz. vol. 211; p. 442.
- Leather-board, Making. A. L. Clapp. No. 1,128,290; Feb. 16; Gaz. vol. 211; p. 661.
- Leather-board stock and leather-board, Producing. A. L. Clapp. No. 1,152,294; Aug. 31; Gaz. vol. 217; p. 1602.
- Leather-brushing machine. C. Ruhe. No. 1,151,826; Aug. 31; Gaz. vol. 217; p. 1442.
- Leather-brushing machine, Sole. C. Ruhe. (Reissue.) No. 13,984; Sept. 21; Gaz. vol. 218; p. 856.
- Leather-buffing machine. J. R. Scott. No. 1,146,529; July 13; Gaz. vol. 216; p. 566.
- Leather-buffing machine. J. R. Scott. No. 1,147,819; July 27; Gaz. vol. 216; p. 1061.
- Leather cutting and skiving machine. G. F. Hildebrand. No. 1,131,607; Mar. 9; Gaz. vol. 212; p. 647.
- Leather-cutting machine. M. P. Bernhagen. No. 1,159,161; Nov. 2; Gaz. vol. 220; p. 260.
- Leather-cutting machine. H. Kehler. No. 1,141,465; June 1; Gaz. vol. 215; p. 136.
- Leather-cutting machine, Sole. L. E. Johnson. No. 1,137,213; Apr. 27; Gaz. vol. 213; p. 1231.
- Leather-cutting tool. A. W. Larson. No. 1,134,542; Apr. 6; Gaz. vol. 213; p. 167.
- Leather-dressing. H. S. West and J. L. Smith. No. 1,128,926; Feb. 16; Gaz. vol. 211; p. 881.
- Leather, Drying patent. H. Schulz. No. 1,137,671; Apr. 27; Gaz. vol. 213; p. 1390.
- Leather-embossing machine. T. J. Edwards. No. 1,129,563; Feb. 23; Gaz. vol. 211; p. 1140.
- Leather for waterproofing the same and rendering it non-slipping, Treatment of. A. McLennan. No. 1,150,047; Aug. 17; Gaz. vol. 217; p. 722.
- Leather-grading machine, Scrap. J. E. Mitchell and D. Parks. No. 1,163,353; Dec. 7; Gaz. vol. 221; p. 219.
- Leather material, Making. L. Heimann. No. 1,133,957; Mar. 30; Gaz. vol. 212; p. 1612.

Alphabetical list of inventions—Continued.

- Leather-scarfing machine. F. W. Merrick. No. 1,141,253; June 1; Gaz. vol. 215; p. 57.
- Leather-skiving machine. E. Erickson. No. 1,162,344; Nov. 30; Gaz. vol. 220; p. 1561.
- Leather-skiving machine. J. C. Primms. No. 1,127,512; Feb. 9; Gaz. vol. 211; p. 338.
- Leather splitting and cutting machine. W. B. Keighley. No. 1,129,686; Feb. 23; Gaz. vol. 211; p. 1180.
- Leather-splitting machine. W. B. Keighley. No. 1,134,747; Apr. 6; Gaz. vol. 213; p. 243.
- Leather-splitting machine. H. Lyon. No. 1,164,829; Dec. 21; Gaz. vol. 221; p. 818.
- Leather-staking machine. F. F. Slocomb. No. 1,130,769; Mar. 9; Gaz. vol. 212; p. 358.
- Leather substitute and making it. R. O. Herzog and A. Meier. No. 1,141,545; June 1; Gaz. vol. 215; p. 164.
- Leather substitutes, Producing. R. A. McLaurin. No. 1,130,619; Mar. 2; Gaz. vol. 212; p. 272.
- Leather, Tanning and waterproofing. J. Moszynski. No. 1,157,952; Oct. 26; Gaz. vol. 219; p. 1036.
- Leather-toughening composition and making same. C. W. Gross. No. 1,149,645; Aug. 10; Gaz. vol. 217; p. 519.
- Leather-treating machine. C. Ruhe. No. 1,154,341; Sept. 21; Gaz. vol. 218; p. 768.
- Leather washers, Machine for assembling. G. Tholl. No. 1,124,860; Jan. 12; Gaz. vol. 210; p. 447.
- Ledger for short-account systems. H. McCormick and M. A. Lombard. No. 1,127,051; Feb. 2; Gaz. vol. 211; p. 137.
- Ledger-sheet and its production. H. Brown. No. 1,146,997; July 20; Gaz. vol. 216; p. 749.
- Ledgers, Leaf for loose-leaf. R. J. Wilson. No. 1,143,155; June 15; Gaz. vol. 215; p. 801.
- Leer. J. H. Fox. No. 1,165,585; Dec. 28; Gaz. vol. 221; p. 1119.
- Leer. H. S. Heichert and H. S. Drury. No. 1,126,465; Jan. 26; Gaz. vol. 210; p. 1268.
- Leer, Fireless. J. J. Denning. No. 1,132,459; Mar. 16; Gaz. vol. 212; p. 989.
- Leg, Artificial. J. T. Apgar. No. 1,144,681; June 29; Gaz. vol. 215; p. 1383.
- Leg sockets, Forming artificial. J. T. Apgar. No. 1,153,532; Sept. 14; Gaz. vol. 218; p. 454.
- Legging. E. P. Dehler. No. 1,132,835; Mar. 23; Gaz. vol. 212; p. 1177.
- Leggings, Apparatus for use in manufacturing. M. Rosenwasser. No. 1,137,087; Apr. 27; Gaz. vol. 213; p. 1185.
- Lemon-squeezer. F. Carroll. No. 1,163,507; Dec. 7; Gaz. vol. 221; p. 270.
- Lemon-squeezer. J. A. and J. C. Cooper. No. 1,152,933; Sept. 7; Gaz. vol. 218; p. 203.
- Lemon-squeezer. H. Rochmill. No. 1,136,837; Apr. 20; Gaz. vol. 213; p. 1059.
- Lemon-squeezer. L. Schatterman. No. 1,141,834; June 1; Gaz. vol. 215; p. 261.
- Lemons and the like, Apparatus for cutting. R. T. Park. No. 1,124,797; Jan. 12; Gaz. vol. 210; p. 605.
- Length-stop. W. L. Schellenbach. No. 1,163,861; Dec. 14; Gaz. vol. 221; p. 440.
- Lens. R. H. Hough and L. J. Stern. No. 1,125,327; Jan. 19; Gaz. vol. 210; p. 829.
- Lens and making the same, Bifocal. H. A. Courmettes. No. 1,160,383; Nov. 16; Gaz. vol. 220; p. 778.
- Lens, Bifocal. E. R. Talley. No. 1,136,060; Apr. 20; Gaz. vol. 213; p. 782.
- Lens-blank manufacture. E. A. Vornholt. No. 1,157,470; Oct. 19; Gaz. vol. 219; p. 807.
- Lens-casings, Adjusting mechanism for. E. Kandler. No. 1,127,449; Feb. 9; Gaz. vol. 211; p. 316.
- Lens centering, marking, and testing instrument. G. A. Bader and C. W. Howland. No. 1,134,938; Apr. 6; Gaz. vol. 213; p. 304.
- Lens connection, Goggle-. H. J. Brennecke. No. 1,129,950; Mar. 2; Gaz. vol. 212; p. 40.
- Lens-cutting machine. H. Clement. No. 1,127,860; Feb. 9; Gaz. vol. 211; p. 461.
- Lens-cutting machine. W. S. Essick. No. 1,135,507; Apr. 13; Gaz. vol. 213; p. 547.
- Lens-cutting machine. C. W. Howland. No. 1,141,896; June 1; Gaz. vol. 215; p. 234.
- Lens-drilling machine. G. A. Bader and C. W. Howland. No. 1,141,859; June 1; Gaz. vol. 215; p. 269.
- Lens-drilling machines, Work-holder for. G. A. Bader and C. W. Howland. No. 1,162,327; Nov. 30; Gaz. vol. 220; p. 1556.
- Lens-examining instrument. A. H. Emerson. No. 1,164,795; Dec. 21; Gaz. vol. 221; p. 806.
- Lens-fastening. F. H. Kahn. No. 1,127,013; Feb. 2; Gaz. vol. 211; p. 123.
- Lens-fastening. F. H. Kahn. No. 1,132,945; Mar. 23; Gaz. vol. 212; p. 1217.
- Lens, Forming a bifocal. A. Kinnear. No. 1,165,978; Dec. 28; Gaz. vol. 221; p. 1257.
- Lens grinding and polishing apparatus. C. W. Conner. No. 1,162,039; Nov. 30; Gaz. vol. 220; p. 1455.
- Lens-grinding machine. A. L. Edmondson. No. 1,135,936; Apr. 13; Gaz. vol. 213; p. 697.
- Lens-grinding machine. W. K. Rogers. No. 1,140,483; May 25; Gaz. vol. 214; p. 1081.
- Lens-grinding tool. W. P. Hall. No. 1,162,053; Nov. 30; Gaz. vol. 220; p. 1459.
- Lens-holder for optical instruments. J. W. Riglander. No. 1,129,523; Feb. 23; Gaz. vol. 211; p. 1125.
- Lens holder, Movable-reading-. C. A. Mellicke. No. 1,149,383; Aug. 10; Gaz. vol. 217; p. 423.
- Lens-hood and vignetter, Combination. C. R. Howard. No. 1,137,975; May 4; Gaz. vol. 214; p. 88.
- Lens manufacturing. E. C. Morine. No. 1,157,411; Oct. 19; Gaz. vol. 219; p. 786.
- Lens-measure. A. T. Webb. No. 1,151,635; Aug. 31; Gaz. vol. 217; p. 1375.
- Lens mount, Condensing. J. M. Guthrie and H. G. Post. No. 1,151,008; Aug. 24; Gaz. vol. 217; p. 1115.
- Lens-mounting. D. F. Green. No. 1,130,397; Mar. 2; Gaz. vol. 212; p. 194.
- Lens-mounting. G. Johnston. No. 1,146,169; July 13; Gaz. vol. 216; p. 439.
- Lens-mounting blocks, Mold for. W. W. Essick. No. 1,143,895; June 22; Gaz. vol. 215; p. 1082.
- Lens-notching machine. R. H. Uhlemann. No. 1,133,515; Mar. 30; Gaz. vol. 212; p. 1456.
- Lens, Optical. A. G. Poullain and D. H. J. Cornet. No. 1,143,316; June 15; Gaz. vol. 215; p. 859.
- Lens-securing device. G. Lowenstein. No. 1,148,105; July 27; Gaz. vol. 216; p. 1165.
- Lens-shade, Exercising. M. J. Rooney. No. 1,130,634; Mar. 2; Gaz. vol. 212; p. 277.
- Lens, Test or trial. E. B. Meyrowitz. No. 1,148,608; Aug. 3; Gaz. vol. 217; p. 45.
- Lens, Trifocal. H. Bolde. No. 1,158,102; Oct. 26; Gaz. vol. 219; p. 1090.
- Lenses, Apparatus for making bifocal. H. Newbold. No. 1,158,002; Oct. 26; Gaz. vol. 219; p. 1053.
- Lenses, Apparatus for the production of toric or toroidal surfaces of spectacle and eyeglass. H. Newbold. No. 1,154,199; Sept. 21; Gaz. vol. 218; p. 717.
- Lenses, Assembler for rimless. N. H. Greenberg and J. F. Clutter. No. 1,142,956; June 15; Gaz. vol. 215; p. 732.
- Lenses, Forming ophthalmic. L. W. Bugbee. No. 1,153,859; Sept. 14; Gaz. vol. 218; p. 568.
- Lenses, Machine for grooving. M. Hansen. No. 1,145,194; July 6; Gaz. vol. 216; p. 77.
- Lenses, Making bifocal. E. C. Morine. No. 1,157,410; Oct. 19; Gaz. vol. 219; p. 786.
- Lenses, Mechanism for making bifocal. H. A. Scheuerle. No. 1,140,401; May 25; Gaz. vol. 214; p. 1051.
- Lenses, Mechanism for making bifocal. H. A. Scheuerle. (Reissue.) No. 13,954; July 27; Gaz. vol. 216; p. 1302.
- Lenses, Support for welding blanks of bifocal. C. Bode. No. 1,126,365; Jan. 26; Gaz. vol. 210; p. 1233.
- Letter-box. J. Bihon. No. 1,130,136; Mar. 2; Gaz. vol. 212; p. 102.
- Letter-box. A. W. Gast. No. 1,153,548; Sept. 14; Gaz. vol. 218; p. 459.
- Letter-box. A. S. Goddard. No. 1,152,941; Sept. 7; Gaz. vol. 218; p. 207.
- Letter-box. W. C. Martineau. No. 1,156,914; Oct. 19; Gaz. vol. 219; p. 609.
- Letter-box, Street. S. C. Cox. No. 1,127,192; Feb. 2; Gaz. vol. 211; p. 186.
- Letter-holder. S. L. Guy. No. 1,133,280; Mar. 30; Gaz. vol. 212; p. 1373.
- Letter-opener. H. Hesse. No. 1,152,628; Sept. 7; Gaz. vol. 218; p. 91.
- Letter-opener. H. M. Yorke. No. 1,157,489; Oct. 19; Gaz. vol. 219; p. 813.
- Letter-plate. J. C. Eubank. No. 1,157,856; Oct. 26; Gaz. vol. 219; p. 1002.
- Letter-sheet and envelop, Combined. W. G. Chambers. No. 1,147,925; July 27; Gaz. vol. 216; p. 1099.
- Letter-sheet and envelop, Combined. C. W. Graham. No. 1,135,578; Apr. 13; Gaz. vol. 213; p. 551.
- Lettering-machine. J. A. McHollan. No. 1,125,582; Jan. 19; Gaz. vol. 210; p. 917.
- Leucite-rock for the extraction of alkali and alumina therein, Treating. E. E. Dougherty. No. 1,148,156; July 27; Gaz. vol. 216; p. 1183.
- Leuco compounds and making same. A. Schmidt and A. Steindorff. No. 1,141,148; June 1; Gaz. vol. 215; p. 20.
- Level. J. Bartha. No. 1,153,012; Sept. 7; Gaz. vol. 218; p. 232.
- Level. T. Coughlin. No. 1,133,936; Mar. 30; Gaz. vol. 212; p. 1605.
- Level. I. S. Creamer. No. 1,141,617; June 1; Gaz. vol. 215; p. 189.
- Level. J. W. Denny. No. 1,135,163; Apr. 13; Gaz. vol. 213; p. 429.
- Level. W. Gethmann. No. 1,166,045; Dec. 28; Gaz. vol. 221; p. 1281.
- Level. R. C. Kellogg and A. Johnson. No. 1,162,931; Dec. 7; Gaz. vol. 221; p. 68.
- Level. J. Knittle. No. 1,155,824; Oct. 5; Gaz. vol. 219; p. 175.
- Level. H. H. Machin and G. Golden. No. 1,159,516; Nov. 9; Gaz. vol. 220; p. 418.
- Level. F. B. Miller. No. 1,159,522; Nov. 9; Gaz. vol. 220; p. 420.
- Level. J. D. Rasey. No. 1,128,361; Feb. 16; Gaz. vol. 211; p. 684.
- Level. J. E. Satterfield. No. 1,133,887; Mar. 30; Gaz. vol. 212; p. 1591.
- Level. J. Schmid. No. 1,134,162; Apr. 6; Gaz. vol. 213; p. 28.

Alphabetical list of inventions—Continued.

- Level and plumb-rule, Folding. G. P. Dewees. No. 1,143,256; June 15; Gaz. vol. 215; p. 838.
- Level, Combination carpenter's and surveyor's. E. H. Tracy. No. 1,145,098; July 6; Gaz. vol. 216; p. 45.
- Level, Gravity-operated. C. D. Caughron. No. 1,141,315; June 1; Gaz. vol. 215; p. 81.
- Level, Spirit-. C. L. Berger. No. 1,148,349; July 27; Gaz. vol. 216; p. 1252.
- Level, Spirit-. H. C. Bracey. No. 1,129,785; Feb. 23; Gaz. vol. 211; p. 1213.
- Level, Spirit-. F. Butler. No. 1,153,760; Sept. 14; Gaz. vol. 218; p. 531.
- Level, Spirit-. F. A. Ewer. No. 1,141,325; June 1; Gaz. vol. 215; p. 85.
- Level, Spirit-. F. A. Feder. No. 1,132,318; Mar. 16; Gaz. vol. 212; p. 940.
- Level, Spirit-. I. W. Mason. No. 1,154,873; Sept. 28; Gaz. vol. 218; p. 976.
- Level, Spirit-. P. H. Mayes. No. 1,126,548; Jan. 26; Gaz. vol. 210; p. 1300.
- Level, Spirit-. E. A. Trenholm. No. 1,130,552; Mar. 2; Gaz. vol. 212; p. 250.
- Level-indicator, Electric. G. E. Henderson. No. 1,152,730; Sept. 7; Gaz. vol. 218; p. 128.
- Level, square, plumb, and bevel, Combined. G. E. McLane. No. 1,125,861; Jan. 19; Gaz. vol. 210; p. 1017.
- Leveling attachment for surveying instruments, &c., Automatic. L. F. Hellmann. No. 1,144,594; June 29; Gaz. vol. 215; p. 1353.
- Leveling device. J. H. M. Brown. No. 1,125,807; Jan. 19; Gaz. vol. 210; p. 1000.
- Leveling device. W. B. Hurd. No. 1,132,349; Mar. 16; Gaz. vol. 212; p. 950.
- Leveling instrument. A. J. Moonen. No. 1,164,544; Dec. 14; Gaz. vol. 221; p. 678.
- Leveling instrument. H. Wild. No. 1,160,228; Nov. 16; Gaz. vol. 220; p. 725.
- Leveling instrument for builders. C. L. Prandoni. No. 1,133,501; Mar. 30; Gaz. vol. 212; p. 1450.
- Leveling instrument for use in underground workings. J. G. Bower. No. 1,145,664; July 6; Gaz. vol. 216; p. 241.
- Leveling-rod. F. W. Stotler and J. H. Steele. No. 1,161,358; Nov. 23; Gaz. vol. 220; p. 1172.
- Leveling-rod. W. F. Whittier. No. 1,147,060; July 20; Gaz. vol. 216; p. 771.
- Leveling-rod, Engineer's. R. C. Watson. No. 1,165,820; Dec. 28; Gaz. vol. 221; p. 1203.
- Leveling-stand and base. E. A. Schade. No. 1,151,549; Aug. 24; Gaz. vol. 217; p. 1300.
- Lever. J. L. Sprouse. No. 1,165,211; Dec. 21; Gaz. vol. 221; p. 953.
- Lever. B. H. Witherbee. No. 1,156,961; Oct. 19; Gaz. vol. 219; p. 626.
- Lever and the like lock. C. E. White. No. 1,165,477; Dec. 28; Gaz. vol. 221; p. 1083.
- Lever, Foot-. T. J. Anderson. No. 1,157,140; Oct. 19; Gaz. vol. 219; p. 688.
- Lever-holding mechanism, Foot-. E. S. Harden. No. 1,154,012; Sept. 21; Gaz. vol. 218; p. 654.
- Lever-latching mechanism, Reverse. C. L. Helsler. No. 1,140,743; May 25; Gaz. vol. 214; p. 1169.
- Lever-lock. J. E. Gillmor. No. 1,148,309; July 27; Gaz. vol. 216; p. 1236.
- Lever-lock. C. R. Saunders. No. 1,138,795; May 11; Gaz. vol. 214; p. 416.
- Lever lock, Controlling-. C. Schultz, Jr., and E. L. McManus, Jr. No. 1,160,002; Nov. 9; Gaz. vol. 220; p. 593.
- Lever lock, Gear-. P. B. Walls. No. 1,136,568; Apr. 20; Gaz. vol. 213; p. 964.
- Lever lock, Throttle-. S. Pitts. No. 1,162,307; Nov. 30; Gaz. vol. 220; p. 1549.
- Lever-locking device. J. A. Deyoung. No. 1,127,203; Feb. 2; Gaz. vol. 211; p. 190.
- Lever-locking device, Hand-. A. H. Marhenke. No. 1,159,973; Nov. 9; Gaz. vol. 220; p. 583.
- Lever-locking means. W. G. Whiteside. No. 1,165,352; Dec. 21; Gaz. vol. 221; p. 1000.
- Lever locking means. Control-. F. B. Miller. No. 1,136,155; Apr. 20; Gaz. vol. 213; p. 816.
- Lever-operated devices, Stirrup attachment for. G. C. Fisher. No. 1,146,146; July 13; Gaz. vol. 216; p. 430.
- Lever, Operating-. W. B. Stevens. No. 1,135,737; Apr. 13; Gaz. vol. 213; p. 629.
- Lever-operating mechanism. W. E. Robison and C. E. Kaiser. No. 1,165,344; Dec. 21; Gaz. vol. 221; p. 996.
- Lever-operating mechanism. O. H. Theleen. No. 1,147,764; July 27; Gaz. vol. 216; p. 1043.
- Lever-press. P. Theodore. No. 1,133,512; Mar. 30; Gaz. vol. 212; p. 1455.
- Lever, Slotted signal-. J. L. Langdon. No. 1,152,370; Aug. 31; Gaz. vol. 217; p. 1630.
- Lever, Speed-controlling-. W. G. Lewi. No. 1,145,074; July 6; Gaz. vol. 216; p. 36.
- Lever, Universal. M. Blackaller. No. 1,164,455; Dec. 14; Gaz. vol. 221; p. 648.
- Levers, Cushioning device for foot-. T. K. Cooper. No. 1,156,586; Oct. 12; Gaz. vol. 219; p. 464.
- Levers, Lock for two relatively movable. B. P. Youmans. No. 1,140,431; May 25; Gaz. vol. 214; p. 1061.
- License-number-display device. J. R. Mayes and S. W. Es skew. No. 1,133,991; Mar. 30; Gaz. vol. 212; p. 1622.
- License-plate carrier and signal. R. B. Baker. No. 1,163,199; Dec. 7; Gaz. vol. 221; p. 163.
- License-plate-illuminating device. G. Laub. No. 1,135,822; Apr. 13; Gaz. vol. 213; p. 659.
- Licorice-root-fiber board. W. L. Geddes. No. 1,143,621; June 22; Gaz. vol. 215; p. 989.
- Lid-control mechanism. J. B. Cherney. No. 1,136,865; Apr. 20; Gaz. vol. 213; p. 1068.
- Lid for culinary vessels. J. F. Davenport. No. 1,145,231; July 6; Gaz. vol. 216; p. 90.
- Lid-lifter. J. Barrère. No. 1,133,912; Mar. 30; Gaz. vol. 212; p. 1598.
- Lid-lifter. J. E. Buss. No. 1,137,949; May 4; Gaz. vol. 214; p. 79.
- Lid lifter, Receptacle-. M. Bianchi. No. 1,152,270; Aug. 31; Gaz. vol. 217; p. 1594.
- Lid-support, Automatic. L. H. Hays and G. W. Johnson. No. 1,137,484; Apr. 27; Gaz. vol. 213; p. 1328.
- Life-buoy or life-preserver. O. B. Felland. No. 1,148,583; Aug. 3; Gaz. vol. 217; p. 36.
- Life-guard. L. M. Maxham. No. 1,164,542; Dec. 14; Gaz. vol. 221; p. 677.
- Life-jacket, Adjustable. G. W. Hendry. No. 1,154,860; Sept. 28; Gaz. vol. 218; p. 972.
- Life-preserver. P. Bahr. No. 1,127,848; Feb. 9; Gaz. vol. 211; p. 456.
- Life-preserver. M. A. Brazil. No. 1,127,174; Feb. 2; Gaz. vol. 211; p. 180.
- Life-preserver. W. G. Brokaw. No. 1,150,335; Aug. 17; Gaz. vol. 217; p. 826.
- Life-preserver. W. G. Brokaw. No. 1,155,207; Sept. 28; Gaz. vol. 218; p. 1093.
- Life-preserver. W. G. Brokaw. No. 1,160,252; Nov. 16; Gaz. vol. 220; p. 733.
- Life-preserver. W. G. Brokaw. No. 1,160,253; Nov. 16; Gaz. vol. 220; p. 734.
- Life-preserver. W. Bruce. No. 1,131,113; Mar. 9; Gaz. vol. 212; p. 475.
- Life-preserver. A. H. W. Cleave. No. 1,140,358; May 25; Gaz. vol. 214; p. 1035.
- Life-preserver. R. F. Collins. No. 1,129,958; Mar. 2; Gaz. vol. 212; p. 42.
- Life-preserver. C. J. Frid. No. 1,131,227; Mar. 9; Gaz. vol. 212; p. 514.
- Life-preserver. P. Gepack. No. 1,137,397; Apr. 27; Gaz. vol. 213; p. 1298.
- Life-preserver. E. Goldbach. No. 1,162,909; Dec. 7; Gaz. vol. 221; p. 60.
- Life-preserver. S. G. Hines. No. 1,137,971; May 4; Gaz. vol. 214; p. 87.
- Life-preserver. J. B. and M. Kasser. No. 1,130,297; Mar. 2; Gaz. vol. 212; p. 158.
- Life-preserver. J. E. Lomas. No. 1,162,087; Nov. 30; Gaz. vol. 220; p. 1472.
- Life-preserver. J. Macaulay. No. 1,138,495; May 4; Gaz. vol. 214; p. 272.
- Life-preserver. A. Miloš. No. 1,152,199; Aug. 31; Gaz. vol. 217; p. 1569.
- Life-preserver. N. Pszystas. No. 1,145,510; July 6; Gaz. vol. 216; p. 187.
- Life-preserver. J. J. Puskanen. No. 1,159,086; Nov. 2; Gaz. vol. 220; p. 233.
- Life-preserver. J. Schreiber. No. 1,150,460; Aug. 17; Gaz. vol. 217; p. 868.
- Life-preserver and body-protector, Combined. E. H. Gagnon. No. 1,137,056; Apr. 27; Gaz. vol. 213; p. 1174.
- Life-preserver and protector. W. McKelvy. No. 1,129,108; Feb. 23; Gaz. vol. 211; p. 981.
- Life-preserver cushion. C. A. Smack. No. 1,127,930; Feb. 9; Gaz. vol. 211; p. 485.
- Life-preserving garment. M. P. Whidden. No. 1,129,932; Mar. 2; Gaz. vol. 212; p. 34.
- Life-preserving suit. W. J. Karban. No. 1,127,632; Feb. 9; Gaz. vol. 211; p. 377.
- Life-preserving suit. D. Sabo. No. 1,146,850; July 13; Gaz. vol. 216; p. 500.
- Life-raft. O. E. Jones. No. 1,152,095; Aug. 31; Gaz. vol. 217; p. 1534.
- Life-saving apparatus. L. H. De Wyk. No. 1,152,305; Aug. 31; Gaz. vol. 217; p. 1606.
- Life-saving apparatus. I. Feigenbaum. No. 1,131,127; Mar. 9; Gaz. vol. 212; p. 480.
- Life-saving apparatus. R. Kamloka. No. 1,144,904; June 29; Gaz. vol. 215; p. 1460.
- Life-saving apparatus. M. Kispeter. No. 1,143,835; June 22; Gaz. vol. 215; p. 1062.
- Life-saving apparatus. L. A. Lamar. No. 1,150,775; Aug. 17; Gaz. vol. 217; p. 977.
- Life-saving apparatus. A. N. McGray. No. 1,130,528; Mar. 2; Gaz. vol. 212; p. 242.
- Life-saving apparatus. C. Rydell. No. 1,138,319; May 4; Gaz. vol. 214; p. 210.
- Life-saving apparatus. A. Standau, Sr. No. 1,129,751; Feb. 23; Gaz. vol. 211; p. 1201.
- Life-saving apparatus. R. J. Train and A. Houston. No. 1,133,202; Mar. 23; Gaz. vol. 212; p. 1310.
- Life-saving apparatus. B. Travaglia. No. 1,152,242; Aug. 31; Gaz. vol. 217; p. 1584.
- Life-saving appliance, Submarine. C. G. Ullin. No. 1,128,553; Feb. 16; Gaz. vol. 211; p. 750.

Alphabetical list of inventions—Continued.

- Life-saving at sea, Appliance suitable for. W. Gater. No. 1,132,468; Mar. 16; Gaz. vol. 212; p. 992.
- Life-saving belt. A. Jacobson and H. Rubin. No. 1,162,610; Nov. 30; Gaz. vol. 220; p. 1650.
- Life-saving belt or buoy. J. Brown. No. 1,156,749; Oct. 12; Gaz. vol. 219; p. 521.
- Life-saving bench, Automatic. W. J. Thompson. No. 1,147,988; July 27; Gaz. vol. 216; p. 1122.
- Life-saving device. H. C. Brubacker. No. 1,133,924; Mar. 30; Gaz. vol. 212; p. 1601.
- Life-saving device. W. Lindemann. No. 1,142,592; June 8; Gaz. vol. 215; p. 566.
- Life-saving device. B. Zopf. No. 1,139,624; May 18; Gaz. vol. 214; p. 742.
- Life-saving garment. W. R. Pike and T. S. Morton. No. 1,164,312; Dec. 14; Gaz. vol. 221; p. 597.
- Life-saving jacket, Marine. G. M. Boddy and W. Carroll. No. 1,162,214; Nov. 30; Gaz. vol. 220; p. 1516.
- Life-saving raft. S. M. Rohrer. No. 1,166,080; Dec. 28; Gaz. vol. 221; p. 1292.
- Life-saving sectional steamer. E. Thompson. No. 1,151,420; Aug. 24; Gaz. vol. 217; p. 1253.
- Life-saving suit. A. Crinnion. No. 1,140,025; May 18; Gaz. vol. 214; p. 885.
- Life-saving suit. J. Horvath. No. 1,141,116; June 1; Gaz. vol. 215; p. 9.
- Life-saving suit. W. B. Loewenberg and C. Lyons. No. 1,151,369; Aug. 24; Gaz. vol. 217; p. 1236.
- Life-saving suit. F. A. Moffitt. No. 1,123,912; Jan. 5; Gaz. vol. 210; p. 244.
- Life-saving suit. P. Simon. No. 1,141,273; June 1; Gaz. vol. 215; p. 65.
- Life-saving suit. P. Simon. No. 1,147,274; July 20; Gaz. vol. 216; p. 844.
- Life-saving waistcoat. J. W. Gieve. No. 1,143,899; June 22; Gaz. vol. 215; p. 1083.
- Lift-cutting and heel-blank-building machine, Combined. J. E. Mitchell and D. Parks. No. 1,157,409; Oct. 19; Gaz. vol. 219; p. 785.
- Lift-cutting, assembling, and heel-building machine, Combined. W. Wolfe. No. 1,163,300; Dec. 7; Gaz. vol. 221; p. 198.
- Lifter. *See—*
- | | |
|----------------------------------|-----------------------|
| Agricultural - implement lifter. | Pipe-lifter. |
| Automobile top-lifter. | Plate-lifter. |
| Bull-wheel belt-lifter. | Plate and pan lifter. |
| Car-coupling pin-lifter. | Pot and cover lifter. |
| Clothes-lifter. | Pot and pan lifter. |
| Cuspidor-lifter. | Stove-lid lifter. |
| Grain-lifter. | Thread-board lifter. |
| Lid-lifter. | Trunk-lid lifter. |
| Locomotive smoke-lifter. | Utensil-lifter. |
| Pan-lifter. | Valve-lifter. |
| Pan and plate lifter. | Valve-spring lifter. |
| Paper-lifter. | Vessel-lifter. |
- Lifter. A. S. Evans. No. 1,139,854; May 18; Gaz. vol. 214; p. 824.
- Lifter. H. C. Gates. No. 1,156,138; Oct. 12; Gaz. vol. 219; p. 309.
- Lifting and emptying receptacles, Apparatus for. J. C. Rahm. No. 1,165,900; Dec. 28; Gaz. vol. 221; p. 1230.
- Lifting apparatus, Collapsible. E. Crémieu-Javal. No. 1,135,440; Apr. 13; Gaz. vol. 213; p. 524.
- Lifting device. J. E. Golden. No. 1,150,671; Aug. 17; Gaz. vol. 217; p. 942.
- Lifting-jack. W. M. Alston and I. E. Hindman. No. 1,147,476; July 20; Gaz. vol. 216; p. 916.
- Lifting-jack. W. M. Alston and I. E. Hindman. No. 1,151,232; Aug. 24; Gaz. vol. 217; p. 1192.
- Lifting-jack. W. M. Alston and I. E. Hindman. No. 1,165,380; Dec. 28; Gaz. vol. 221; p. 1048.
- Lifting-jack. E. T. Alyea. No. 1,148,648; Aug. 3; Gaz. vol. 217; p. 59.
- Lifting-jack. H. A. Connors. No. 1,144,933; June 29; Gaz. vol. 215; p. 1469.
- Lifting-jack. B. G. Cope. No. 1,148,890; Aug. 3; Gaz. vol. 217; p. 144.
- Lifting-jack. C. L. Crabb. No. 1,132,075; Mar. 16; Gaz. vol. 212; p. 850.
- Lifting-jack. L. I. Darby. No. 1,155,049; Sept. 28; Gaz. vol. 218; p. 1036.
- Lifting-jack. R. W. Dudding. No. 1,158,903; Nov. 2; Gaz. vol. 220; p. 173.
- Lifting-jack. E. Erickson and P. Sjostrom. No. 1,139,263; May 11; Gaz. vol. 214; p. 580.
- Lifting-jack. L. J. Gay. No. 1,134,447; Apr. 6; Gaz. vol. 213; p. 133.
- Lifting-jack. T. M. Hendrickson. No. 1,153,223; Sept. 14; Gaz. vol. 218; p. 341.
- Lifting-jack. W. F. Hiatt. No. 1,152,507; Sept. 7; Gaz. vol. 218; p. 45.
- Lifting-jack. W. F. Hiatt. No. 1,159,938; Nov. 9; Gaz. vol. 220; p. 571.
- Lifting-jack. B. Larsen. No. 1,135,299; Apr. 13; Gaz. vol. 213; p. 474.
- Lifting-jack. C. S. Lehman. No. 1,140,907; May 25; Gaz. vol. 214; p. 1228.
- Lifting-jack. F. J. Muntz. No. 1,148,396; July 27; Gaz. vol. 216; p. 1268.
- Lifting-jack. A. Neal. No. 1,151,962; Aug. 31; Gaz. vol. 217; p. 1487.
- Lifting-jack. F. Olson. No. 1,139,568; May 18; Gaz. vol. 214; p. 723.
- Lifting-jack. C. W. Parker and T. H. Wittliff. No. 1,124,942; Jan. 12; Gaz. vol. 210; p. 655.
- Lifting-jack. J. O. St. Pierre. No. 1,131,285; Mar. 9; Gaz. vol. 212; p. 534.
- Lifting-jack. J. O. St. Pierre. No. 1,131,286; Mar. 9; Gaz. vol. 212; p. 535.
- Lifting-jack. A. T. Richardson. No. 1,143,067; June 15; Gaz. vol. 215; p. 771.
- Lifting-jack. F. W. Shaw and D. Bottorf. No. 1,127,294; Feb. 2; Gaz. vol. 211; p. 221.
- Lifting-jack. F. C. Spencer. No. 1,148,868; Aug. 3; Gaz. vol. 217; p. 136.
- Lifting-jack. J. Whall. No. 1,123,634; Jan. 5; Gaz. vol. 210; p. 149.
- Lifting-jack head. F. I. Joyce. No. 1,137,491; Apr. 27; Gaz. vol. 213; p. 1331.
- Lifting-jack-operating mechanism. E. T. Alyea. No. 1,135,649; Apr. 13; Gaz. vol. 213; p. 598.
- Lifting-machine, Vacuum. C. L. Smith. No. 1,125,752; Jan. 19; Gaz. vol. 210; p. 980.
- Lifting, supporting, and lowering apparatus. L. B. Irish. No. 1,127,253; Feb. 2; Gaz. vol. 211; p. 207.
- Light. *See—*
- | | |
|--------------------------|--------------------------|
| Arc-light. | Drop-light. |
| Automobile number-light. | Electric light. |
| Automobile pivot-light. | Electric work-light. |
| Automobile signal-light. | Flash-light. |
| Automobile tail-light. | Gas-light. |
| Battery-light. | Pool-table-pocket light. |
| Curtain-light. | Show-case light. |
| Dash-light. | Tail-light. |
| Dirigible light. | Vault-light. |
- Light and load brake. F. D. Ward. No. 1,156,952; Oct. 19; Gaz. vol. 219; p. 622.
- Light apparatus, Automatic intermittent. F. J. H. Rustige. No. 1,140,617; May 25; Gaz. vol. 214; p. 1127.
- Light, Combined bollard and forward-deck. I. Chase. No. 1,124,391; Jan. 12; Gaz. vol. 210; p. 458.
- Light-controlling switch, Automatic. L. A. Meyers. No. 1,135,311; Apr. 13; Gaz. vol. 213; p. 479.
- Light-diminishing apparatus, Reflected. J. F. Harrell. No. 1,139,277; May 11; Gaz. vol. 214; p. 584.
- Light-dimmer. J. J. Dobes. No. 1,163,570; Dec. 7; Gaz. vol. 221; p. 299.
- Light-dimmer. J. A. Thompson. No. 1,153,464; Sept. 14; Gaz. vol. 218; p. 428.
- Light-distributor. D. Crownfield. No. 1,126,958; Feb. 2; Gaz. vol. 211; p. 102.
- Light-fixtures, Link for. W. C. Hunt. No. 1,136,531; Apr. 20; Gaz. vol. 213; p. 950.
- Light-fixtures, Sectional support for pendent. A. H. Manwaring. No. 1,142,597; June 8; Gaz. vol. 215; p. 568.
- Light-globes, Means for attaching and detaching. E. H. Conrad. No. 1,157,617; Oct. 19; Gaz. vol. 219; p. 853.
- Light guard, Incandescent. C. F. Rubin. No. 1,129,125; Feb. 23; Gaz. vol. 211; p. 987.
- Light-mantles, Machine for making. A. D. Antoine. No. 1,131,893; Mar. 16; Gaz. vol. 212; p. 783.
- Light-obstructor. L. A. Benecke. No. 1,156,578; Oct. 12; Gaz. vol. 219; p. 462.
- Light or heat regulator, Automatic. Y. Hanaoka. No. 1,152,412; Sept. 7; Gaz. vol. 218; p. 11.
- Light-projecting apparatus. W. P. Adams. No. 1,163,192; Dec. 7; Gaz. vol. 221; p. 161.
- Light-projecting apparatus. G. S. Coleman. No. 1,133,103; Mar. 23; Gaz. vol. 212; p. 1274.
- Light-reflecting-bowl hanger. M. Herskovitz. No. 1,166,371; Dec. 28; Gaz. vol. 221; p. 1401.
- Light-support. T. J. Taylor. No. 1,130,773; Mar. 9; Gaz. vol. 212; p. 359.
- Light unit. A. D. Nash. No. 1,151,377; Aug. 24; Gaz. vol. 217; p. 1238.
- Lighter. J. O. Carrey. No. 1,132,559; Mar. 23; Gaz. vol. 212; p. 1073.
- Lighting. P. C. Hewitt. No. 1,150,118; Aug. 17; Gaz. vol. 217; p. 748.
- Lighting. R. Young. No. 1,143,011; June 15; Gaz. vol. 215; p. 751.
- Lighting and ignition system, Combined. A. H. Neuland. No. 1,148,709; Aug. 3; Gaz. vol. 217; p. 81.
- Lighting apparatus. W. M. Grosvenor. No. 1,156,477; Oct. 12; Gaz. vol. 219; p. 426.
- Lighting apparatus. E. Seitz. No. 1,140,405; May 25; Gaz. vol. 214; p. 1052.
- Lighting attachment. G. Dietz, E. J. Lafferty, and G. J. Bessinger. No. 1,131,221; Mar. 9; Gaz. vol. 212; p. 512.
- Lighting device. A. Salzer. No. 1,124,334; Jan. 12; Gaz. vol. 210; p. 437.
- Lighting-fixture. F. M. Brooks. No. 1,155,789; Oct. 5; Gaz. vol. 219; p. 162.
- Lighting-fixture. F. C. Burkhart. No. 1,163,208; Dec. 7; Gaz. vol. 221; p. 166.
- Lighting-fixture. J. R. Cravath. No. 1,137,954; May 4; Gaz. vol. 214; p. 81.
- Lighting-fixture. A. C. Einstein. No. 1,161,118; Nov. 23; Gaz. vol. 220; p. 1084.
- Lighting-fixture. A. C. Einstein. No. 1,161,119; Nov. 23; Gaz. vol. 220; p. 1085.
- Lighting-fixture. E. F. Guth. No. 1,146,935; July 20; Gaz. vol. 216; p. 726.

Alphabetical list of inventions—Continued.

- Lighting-fixture. E. F. Guth. No. 1,155,805; Oct. 5; Gaz. vol. 219; p. 168.
- Lighting-fixture. W. R. Kahns. No. 1,159,042; Nov. 2; Gaz. vol. 220; p. 218.
- Lighting-fixture. A. Schoen. No. 1,127,527; Feb. 9; Gaz. vol. 211; p. 342.
- Lighting-fixture. E. J. Schweitzer and R. G. Wagner. No. 1,153,960; Sept. 21; Gaz. vol. 218; p. 636.
- Lighting-fixture. M. W. Singer and D. Woodhead. No. 1,150,894; Aug. 24; Gaz. vol. 217; p. 1076.
- Lighting-fixture. F. W. Wakefield. No. 1,125,608; Jan. 19; Gaz. vol. 210; p. 928.
- Lighting-fixture apparatus. N. D. Bishop. No. 1,138,836; May 11; Gaz. vol. 214; p. 431.
- Lighting fixture, Convertible direct or indirect. F. W. Wakefield. No. 1,160,345; Nov. 16; Gaz. vol. 220; p. 765.
- Lighting-fixture holder. N. B. Oppen. No. 1,143,775; June 22; Gaz. vol. 215; p. 1040.
- Lighting fixture, Indirect-. H. C. Adam. No. 1,160,094; Nov. 9; Gaz. vol. 220; p. 624.
- Lighting-fixture, Pull-switch. P. M. Hotchkiss. No. 1,164,348; Dec. 14; Gaz. vol. 221; p. 610.
- Lighting-fixture shade-holder. A. W. Clarke. No. 1,163,972; Dec. 14; Gaz. vol. 221; p. 478.
- Lighting-fixture, Device for suspending shades or bowls in. E. L. White. No. 1,154,358; Sept. 21; Gaz. vol. 218; p. 774.
- Lighting-fixture, Support for indirect or semi-indirect. H. A. Bauer. No. 1,144,095; June 22; Gaz. vol. 215; p. 1153.
- Lighting-installation switch. F. Kratz. No. 1,164,727; Dec. 21; Gaz. vol. 221; p. 781.
- Lighting means for motion-picture auditoriums. F. G. McPherson. No. 1,124,635; Jan. 12; Gaz. vol. 210; p. 547.
- Lighting mechanism, Automatic time. H. E. Warren. No. 1,158,397; Oct. 26; Gaz. vol. 219; p. 1193.
- Lighting purposes, Vacuum discharge-tube for. G. Claude. No. 1,131,910; Mar. 16; Gaz. vol. 212; p. 789.
- Lighting reflector-bracket, Show-case. P. M. Hotchkiss. No. 1,134,132; Apr. 6; Gaz. vol. 213; p. 17.
- Lighting, Submarine. B. B. Lewis. No. 1,161,939; Nov. 30; Gaz. vol. 220; p. 1421.
- Lighting system, Duplex. J. R. Pagin. No. 1,156,624; Oct. 12; Gaz. vol. 219; p. 478.
- Lighting systems, Circuit-controlling apparatus for train-. E. H. M. Langley and E. W. Price. No. 1,135,384; Apr. 13; Gaz. vol. 213; p. 503.
- Lighting-arrester. F. S. Chapman. (Reissue.) No. 1,395,077; July 27; Gaz. vol. 216; p. 1300.
- Lighting-arrester. F. B. Corey. No. 1,161,195; Nov. 23; Gaz. vol. 220; p. 1113.
- Lighting-arrester. J. T. Greene. No. 1,155,415; Oct. 5; Gaz. vol. 219; p. 32.
- Lighting-arrester. E. O. Schweitzer and N. J. Conrad. No. 1,164,757; Dec. 21; Gaz. vol. 221; p. 792.
- Lighting-arrester, Electrolytic. G. Gilles. No. 1,150,590; Aug. 17; Gaz. vol. 217; p. 914.
- Lighting-arrester, Horn-gap. E. O. Schwitzer and N. J. Conrad. No. 1,151,726; Aug. 31; Gaz. vol. 217; p. 1405.
- Lighting-arrester, Multiple. C. E. Cox. No. 1,124,865; Jan. 12; Gaz. vol. 210; p. 629.
- Lighting-conductor. M. G. Mitchell. No. 1,129,358; Feb. 23; Gaz. vol. 211; p. 1067.
- Lighting-rod. J. F. Goetz. No. 1,153,617; Sept. 14; Gaz. vol. 218; p. 483.
- Lighting-rod. J. F. Goetz. No. 1,162,855; Dec. 7; Gaz. vol. 221; p. 43.
- Lighting-rod cable. P. J. Juel. No. 1,135,940; Apr. 13; Gaz. vol. 213; p. 698.
- Lighting-rod coupling. E. G. Owen. No. 1,133,176; Mar. 23; Gaz. vol. 212; p. 1301.
- Lighting-rod coupling. E. A. Schmitt. No. 1,163,181; Dec. 7; Gaz. vol. 221; p. 156.
- Lighting-rod fastener. J. R. Connell. No. 1,125,064; Jan. 19; Gaz. vol. 210; p. 734.
- Lighting-rod high top. J. S. Swenson. No. 1,128,261; Feb. 9; Gaz. vol. 211; p. 599.
- Lighting-rod low top. J. S. Swenson. No. 1,127,696; Feb. 9; Gaz. vol. 211; p. 398.
- Lighting-rod-point bracket. T. W. Dodd. No. 1,140,582; May 25; Gaz. vol. 214; p. 1115.
- Lighting-rod terminal. G. E. Thompson. No. 1,150,907; Aug. 24; Gaz. vol. 217; p. 1080.
- Lighting-strokes, Device for protecting structures from. W. Bajohr. No. 1,162,437; Nov. 30; Gaz. vol. 220; p. 1593.
- Limbs, Artificial. J. T. Bracht. No. 1,155,545; Oct. 5; Gaz. vol. 219; p. 78.
- Limbs, Artificial. H. A. Doty. No. 1,134,185; Apr. 6; Gaz. vol. 213; p. 37.
- Limbs, Artificial. H. H. Hanger. No. 1,151,520; Aug. 24; Gaz. vol. 217; p. 1289.
- Limbs-setting device. M. Schnug. No. 1,148,995; Aug. 3; Gaz. vol. 217; p. 180.
- Limbs-setting table. M. Schnug. No. 1,148,996; Aug. 3; Gaz. vol. 217; p. 181.
- Limbs, Apparatus for setting fractured or broken. J. B. Hunt. No. 1,145,064; July 6; Gaz. vol. 216; p. 32.
- Limbs of the human body, Apparatus for the treatment of. E. T. Bloch. No. 1,136,397; Apr. 20; Gaz. vol. 213; p. 903.
- Line, Apparatus for hydrating. M. H. Avram. No. 1,157,284; Oct. 19; Gaz. vol. 219; p. 741.
- Line, Hydrating. F. G. Toepfer. No. 1,146,372; July 13; Gaz. vol. 216; p. 508.
- Line in materials, Apparatus for determining the percentage of. M. O. Reiche. No. 1,156,176; Oct. 12; Gaz. vol. 219; p. 322.
- Line materials, Treating. C. Macnichol. No. 1,151,701; Aug. 31; Gaz. vol. 217; p. 1396.
- Limekiln fuel-feeding device. J. W. Ormsby. No. 1,147,884; July 27; Gaz. vol. 216; p. 1085.
- Liming apparatus. H. Johnson and J. Ogg. No. 1,126,222; Jan. 26; Gaz. vol. 210; p. 1183.
- Limousine-door, Sectional. F. J. McAvoy. No. 1,146,805; July 20; Gaz. vol. 216; p. 681.
- Line, Artificial. R. S. Hoyt. No. 1,124,904; Jan. 12; Gaz. vol. 210; p. 642.
- Line capacity, Method of and means for reducing. E. H. and K. A. Widegren. No. 1,154,278; Sept. 21; Gaz. vol. 218; p. 746.
- Line-casting machine. W. E. Bertram. No. 1,153,020; Sept. 7; Gaz. vol. 218; p. 234.
- Line-casting machine. F. B. Converse. No. 1,155,892; Oct. 5; Gaz. vol. 219; p. 197.
- Line-casting machine. P. T. Dodge. No. 1,129,078; Feb. 23; Gaz. vol. 211; p. 969.
- Line-casting machine. J. R. Rogers. No. 1,151,904; Aug. 31; Gaz. vol. 217; p. 1469.
- Line-casting machine. S. E. Sperry and W. H. Orpen, Jr. No. 1,156,040; Oct. 5; Gaz. vol. 219; p. 248.
- Line-casting machine, Automatic. H. Drewell. No. 1,163,984; Dec. 14; Gaz. vol. 221; p. 482.
- Line-casting machines, Ejector mechanism for. T. S. Homans. No. 1,142,757; June 8; Gaz. vol. 215; p. 621.
- Line-casting machines, Galley mechanism for repeating and non-repeating. C. A. Albrecht. No. 1,153,880; Sept. 21; Gaz. vol. 218; p. 609.
- Line-casting machines, Slug-ejecting device for. S. E. Sperry. No. 1,123,814; Jan. 5; Gaz. vol. 210; p. 210.
- Line-casting machines, Slug-trimming mechanism for. W. E. Bertram. No. 1,124,994; Jan. 12; Gaz. vol. 210; p. 674.
- Line-casting machines, Spaceband buffer-finger and drag for. S. B. Batsford. No. 1,124,688; Jan. 12; Gaz. vol. 210; p. 566.
- Line-chalker. B. F. Mills. No. 1,146,196; July 13; Gaz. vol. 216; p. 447.
- Line-composing machine. T. S. Homans. No. 1,149,768; Aug. 10; Gaz. vol. 217; p. 562.
- Line-composing machines, Assembler for. T. S. Homans. No. 1,149,767; Aug. 10; Gaz. vol. 217; p. 561.
- Line conductors, protective casing for. T. E. Murray. No. 1,132,671; Mar. 23; Gaz. vol. 212; p. 1116.
- Line-fastener. P. Steuler. No. 1,135,736; Apr. 13; Gaz. vol. 213; p. 629.
- Line-holder. H. E. Flake. No. 1,146,240; July 13; Gaz. vol. 216; p. 463.
- Line-holder. C. L. Greene. No. 1,163,531; Dec. 7; Gaz. vol. 221; p. 278.
- Line-marker. J. W. Gearhart. No. 1,159,014; Nov. 2; Gaz. vol. 220; p. 209.
- Line setting and casting machines, Matrix-bar for. J. Dorneth. No. 1,143,692; June 22; Gaz. vol. 215; p. 1013.
- Line-splice. J. S. Brandon. No. 1,155,334; Oct. 5; Gaz. vol. 219; p. 4.
- Line-stretcher. P. H. Buch. No. 1,130,063; Mar. 2; Gaz. vol. 212; p. 77.
- Line-support. W. R. Corner. No. 1,132,514; Mar. 16; Gaz. vol. 212; p. 1010.
- Line-switch. J. N. Reynolds. No. 1,131,734; Mar. 16; Gaz. vol. 212; p. 725.
- Line-switch. J. G. Roberts. No. 1,143,998; June 22; Gaz. vol. 215; p. 1118.
- Line-testing switch. J. M. Watkins. No. 1,131,098; Mar. 9; Gaz. vol. 212; p. 470.
- Line-up and registering device. R. L. Hendrick. No. 1,135,581; Apr. 13; Gaz. vol. 213; p. 574.
- Line-up register-gage. J. C. Dittich. No. 1,153,896; Sept. 21; Gaz. vol. 218; p. 615.
- Lines, &c., Device for viewing and magnifying. J. Q. Adams. No. 1,137,444; Apr. 27; Gaz. vol. 213; p. 1315.
- Linear gage. C. Sotton. No. 1,124,670; Jan. 12; Gaz. vol. 210; p. 560.
- Lined tube. W. Burlingham. No. 1,166,039; Dec. 28; Gaz. vol. 221; p. 1278.
- Lineman's climber. C. M. Jones. No. 1,150,372; Aug. 17; Gaz. vol. 217; p. 838.
- Lining, Friction. E. F. Kelley. No. 1,162,371; Nov. 30; Gaz. vol. 220; p. 1570.
- Lingerie-clasp. G. F. Perry. No. 1,129,361; Feb. 23; Gaz. vol. 211; p. 1069.
- Link. J. Merritt. No. 1,161,004; Nov. 16; Gaz. vol. 220; p. 1000.
- Link, Adjustable. C. N. Winter. No. 1,129,153; Feb. 23; Gaz. vol. 211; p. 996.
- Link, Attaching-. N. D. Goff. No. 1,154,987; Sept. 28; Gaz. vol. 218; p. 1016.

- Link-connector. S. J. Staples. No. 1,144,440; June 29; Gaz. vol. 215; p. 1302.
- Link construction. Conveying-. W. T. Hurst. No. 1,154,401; Sept. 21; Gaz. vol. 218; p. 789.
- Link, Cuff-. F. W. Young. No. 1,156,651; Oct. 12; Gaz. vol. 219; p. 488.
- Link-forming machine. J. F. Gail. No. 1,148,767; Aug. 3; Gaz. vol. 217; p. 102.
- Link-mesh-making machine. A. C. Pratt. No. 1,139,799; May 18; Gaz. vol. 214; p. 805.
- Link-mesh-making machine. A. C. Pratt. No. 1,144,724; June 29; Gaz. vol. 215; p. 1399.
- Link, Open-hook. J. K. Champ. No. 1,153,762; Sept. 14; Gaz. vol. 218; p. 532.
- Link-press. H. Videtto. No. 1,137,813; May 4; Gaz. vol. 214; p. 32.
- Link, Split connecting-. R. L. Criswell. No. 1,151,246; Aug. 24; Gaz. vol. 217; p. 1198.
- Links, Making. J. Merritt. No. 1,161,003; Nov. 13; Gaz. vol. 220; p. 999.
- Linkwork locking and adjusting device. F. H. Royce. No. 1,128,524; Feb. 16; Gaz. vol. 211; p. 740.
- Linoleum. E. L. Blabon. No. 1,132,647; Mar. 23; Gaz. vol. 212; p. 1107.
- Linoleum and the like, Edge binding for. A. J. Schroeter. No. 1,128,061; Feb. 9; Gaz. vol. 211; p. 531.
- Linoleum floor-covering. C. F. Humphreys. No. 1,129,571; Feb. 23; Gaz. vol. 211; p. 1142.
- Linoleum, Making. J. Tomeč. No. 1,161,754; Nov. 23; Gaz. vol. 220; p. 1308.
- Linoleum-mosaic. Machine for manufacturing. G. Frenkel. No. 1,155,718; Oct. 5; Gaz. vol. 219; p. 137.
- Linoleum-mosaic. Manufacturing. G. Frenkel. No. 1,126,440; Jan. 26; Gaz. vol. 210; p. 1259.
- Linoleum on a calendar, Apparatus for manufacturing striped. A. Bucholtz. No. 1,149,895; Aug. 10; Gaz. vol. 217; p. 607.
- Linoleum-rack. C. J. Stoner. No. 1,143,459; June 15; Gaz. vol. 215; p. 909.
- Linoleum-stretcher. R. and W. G. Haugh. No. 1,148,965; Aug. 3; Gaz. vol. 217; p. 170.
- Linotype attachment. A. A. Froehlich. No. 1,154,302; Sept. 21; Gaz. vol. 218; p. 753.
- Linotype class, Elevator-lift for machines of the. H. A. Armstrong. No. 1,156,027; Oct. 5; Gaz. vol. 219; p. 243.
- Linotype composing-sticks, Auxiliary support for. G. Luck. No. 1,146,005; July 13; Gaz. vol. 216; p. 380.
- Linotype-machine. W. E. Bertram. No. 1,124,101; Jan. 5; Gaz. vol. 210; p. 307.
- Linotype-machine. H. Degener. No. 1,155,996; Oct. 5; Gaz. vol. 219; p. 232.
- Linotype-machine. T. S. Homans. No. 1,127,625; Feb. 9; Gaz. vol. 211; p. 374.
- Linotype-machine. T. S. Homans. No. 1,130,600; Mar. 2; Gaz. vol. 212; p. 266.
- Linotype-machine. T. S. Homans. No. 1,153,078; Sept. 7; Gaz. vol. 218; p. 252.
- Linotype-machine. J. Keenan. No. 1,123,752; Jan. 5; Gaz. vol. 210; p. 189.
- Linotype-machine. G. E. Marlatt. No. 1,126,543; Jan. 26; Gaz. vol. 210; p. 1298.
- Linotype-machine. S. E. Sperry. No. 1,129,749; Feb. 23; Gaz. vol. 211; p. 1200.
- Linotype-machine. J. Weissinger. No. 1,156,730; Oct. 12; Gaz. vol. 219; p. 515.
- Linotype-machine attachment. C. B. Callan. No. 1,132,557; Mar. 23; Gaz. vol. 212; p. 1073.
- Linotype-machine mold. W. H. Orpen, Jr., No. 1,129,829; Feb. 23; Gaz. vol. 211; p. 1228.
- Linotype-machine or the like. J. B. Shufeldt, Jr. No. 1,160,776; Nov. 16; Gaz. vol. 220; p. 920.
- Linotype-machines and producing same, Rule-holding slug-form for. H. A. Spurgeon, A. T. Hunt, and W. G. Baker. No. 1,139,593; May 18; Gaz. vol. 214; p. 731.
- Lint, Treating. J. E. Cheesman. No. 1,128,753; Feb. 16; Gaz. vol. 211; p. 820.
- Lint and cotton-gin. G. L. Blanchard. No. 1,125,049; Jan. 19; Gaz. vol. 210; p. 729.
- Lint-boat-driving mechanism. L. K. Stephens. No. 1,139,596; May 18; Gaz. vol. 214; p. 732.
- Liquid-aerating device. H. V. R. Read. No. 1,138,248; May 4; Gaz. vol. 214; p. 183.
- Liquid-agitating device. R. A. Moore. No. 1,151,372; Aug. 24; Gaz. vol. 217; p. 1237.
- Liquid and gaseous fuel burner. A. Lozano. No. 1,130,747; Mar. 9; Gaz. vol. 212; p. 350.
- Liquid and solid fuel furnace. G. R. Gregory. No. 1,137,310; Apr. 27; Gaz. vol. 213; p. 1267.
- Liquid, Apparatus for automatically regulating the temperature of a supply of. G. Stern. No. 1,156,505; Oct. 12; Gaz. vol. 219; p. 437.
- Liquid, Apparatus for filling receptacles with. O. Wickham. No. 1,163,494; Dec. 7; Gaz. vol. 221; p. 265.
- Liquid burner, Volatile-. T. D. Dickinson. No. 1,147,617; July 20; Gaz. vol. 216; p. 965.
- Liquid-circulator. W. T. Bonner. No. 1,165,311; Dec. 21; Gaz. vol. 221; p. 985.
- Liquid clarifier, Centrifugal. F. P. Mason. No. 1,126,247; Jan. 26; Gaz. vol. 210; p. 1192.
- Liquid-coating machines, Article-holder for. R. A. Beaudeau. No. 1,123,660; Jan. 5; Gaz. vol. 210; p. 158.
- Liquid-coloring implement. J. A. Boyajeau. No. 1,141,522; June 1; Gaz. vol. 215; p. 156.
- Liquid-concentrating apparatus. U. Rossi. No. 1,152,977; Sept. 7; Gaz. vol. 218; p. 219.
- Liquid-container gage. E. D. Reece. No. 1,163,260; Dec. 7; Gaz. vol. 221; p. 184.
- Liquid-control system. H. W. Falk and W. K. Andrew. No. 1,137,390; Apr. 27; Gaz. vol. 213; p. 1296.
- Liquid-cooler. G. A. Stricker. No. 1,134,243; Apr. 6; Gaz. vol. 213; p. 59.
- Liquid-cooler. C. L. Vires. No. 1,161,088; Nov. 23; Gaz. vol. 220; p. 1074.
- Liquid-discharging device. W. C. Morrill. (Reissue.) No. 13,898; Apr. 6; Gaz. vol. 213; p. 324.
- Liquid-dispenser. A. E. Holmes. No. 1,165,673; Dec. 28; Gaz. vol. 221; p. 1152.
- Liquid-dispenser. P. Kanellos. No. 1,123,548; Jan. 5; Gaz. vol. 210; p. 120.
- Liquid-dispenser. H. C. Lyons. No. 1,139,129; May 11; Gaz. vol. 214; p. 534.
- Liquid-dispenser. W. P. Sprague. No. 1,159,605; Nov. 9; Gaz. vol. 220; p. 450.
- Liquid-dispenser. M. L. Tobriner. No. 1,145,221; July 6; Gaz. vol. 216; p. 85.
- Liquid-dispensing apparatus. R. R. Hage. No. 1,165,667; Dec. 28; Gaz. vol. 221; p. 1151.
- Liquid-dispensing apparatus. J. H. Holmes. No. 1,134,536; Apr. 6; Gaz. vol. 213; p. 165.
- Liquid-dispensing apparatus. B. F. Hoover. No. 1,137,403; Apr. 27; Gaz. vol. 213; p. 1301.
- Liquid-dispensing apparatus. J. F. Huber. No. 1,124,905; Jan. 12; Gaz. vol. 210; p. 642.
- Liquid-dispensing apparatus, Check-controlled. C. S. Batdorf. No. 1,135,251; Apr. 13; Gaz. vol. 213; p. 457.
- Liquid-dispensing device. L. S. Chadwick. No. 1,137,574; Apr. 27; Gaz. vol. 213; p. 1358.
- Liquid-dispensing device. W. Wagner. No. 1,142,210; June 8; Gaz. vol. 215; p. 431.
- Liquid-dispensing device. E. H. Weatherhead. No. 1,161,557; Nov. 23; Gaz. vol. 220; p. 1242.
- Liquid-distributor, Animal-employed. H. L. Ide. No. 1,162,487; Nov. 30; Gaz. vol. 220; p. 1610.
- Liquid-distributor, Animal-operated. H. L. Ide. No. 1,126,015; Jan. 26; Gaz. vol. 210; p. 1105.
- Liquid-distributor, Animal-operated. H. L. Ide. No. 1,151,524; Aug. 24; Gaz. vol. 217; p. 1290.
- Liquid-distributing device. C. Risacher and P. A. Hébert. No. 1,128,903; Feb. 16; Gaz. vol. 211; p. 873.
- Liquid-drawing-off device. F. Kesseler. No. 1,128,002; Feb. 9; Gaz. vol. 211; p. 510.
- Liquid economizer, Cooling-. J. J. Wood. No. 1,156,511; Oct. 12; Gaz. vol. 219; p. 439.
- Liquid-elevating system, Mechanical. F. Sala and J. Vazquez. No. 1,154,938; Sept. 28; Gaz. vol. 218; p. 1000.
- Liquid-feed indicator. H. Kocourek. No. 1,160,418; Nov. 16; Gaz. vol. 220; p. 790.
- Liquid-feeding apparatus. W. Jay. No. 1,158,924; Nov. 2; Gaz. vol. 220; p. 180.
- Liquid-feeding device. E. A. Larson. No. 1,153,696; Sept. 14; Gaz. vol. 218; p. 509.
- Liquid-fuel burner. W. N. Furthmann. No. 1,135,679; Apr. 13; Gaz. vol. 213; p. 609.
- Liquid-fuel burner. L. J. Gautreau. No. 1,145,362; July 6; Gaz. vol. 216; p. 134.
- Liquid-fuel burner. D. J. Hinson. No. 1,128,447; Feb. 16; Gaz. vol. 211; p. 713.
- Liquid-fuel burner. A. Laing. No. 1,160,910; Nov. 16; Gaz. vol. 220; p. 966.
- Liquid-fuel burner. H. G. Liebrecht. No. 1,129,212; Feb. 23; Gaz. vol. 211; p. 1016.
- Liquid-fuel burner. J. C. Lockhart. No. 1,152,199; Aug. 31; Gaz. vol. 217; p. 1566.
- Liquid-fuel burner. H. H. Marrs, W. D. Terry, and H. J. Marrs. No. 1,128,616; Feb. 16; Gaz. vol. 211; p. 772.
- Liquid-fuel burner. H. McCabe. No. 1,164,733; Dec. 21; Gaz. vol. 221; p. 783.
- Liquid-fuel burner. R. M. G. Phillips. No. 1,161,524; Nov. 23; Gaz. vol. 220; p. 1230.
- Liquid-fuel burner. J. D. Robertson. No. 1,128,188; Feb. 9; Gaz. vol. 211; p. 575.
- Liquid-fuel burner. C. H. Swanson. No. 1,135,072; Apr. 13; Gaz. vol. 213; p. 398.
- Liquid-fuel burner. G. W. Thexton. No. 1,129,140; Feb. 23; Gaz. vol. 211; p. 992.
- Liquid-fuel-feeding apparatus. W. Jay. No. 1,125,549; Jan. 19; Gaz. vol. 210; p. 906.
- Liquid-fuel-fired furnace. A. Laing. No. 1,132,361; Mar. 16; Gaz. vol. 212; p. 954.
- Liquid-fuel furnace. J. Grote and J. Rothkopf. No. 1,150,758; Aug. 17; Gaz. vol. 217; p. 972.
- Liquid-fuel-injecting device. A. Pohl. No. 1,128,184; Feb. 9; Gaz. vol. 211; p. 574.
- Liquid-fuel tank. F. C. Coseo. No. 1,132,833; Mar. 23; Gaz. vol. 212; p. 1176.
- Liquid-heater. E. H. Rousseau. No. 1,136,169; Apr. 20; Gaz. vol. 213; p. 820.
- Liquid-heater. W. R. Stockwell. No. 1,128,823; Feb. 16; Gaz. vol. 211; p. 844.
- Liquid-heater, Electric. M. H. Gonzalez. No. 1,129,861; Mar. 2; Gaz. vol. 212; p. 10.

Alphabetical list of inventions—Continued.

- Liquid heating and evaporating apparatus. O. K. Zwinger-berger. No. 1,156,338; Oct. 12; Gaz. vol. 219; p. 375.
- Liquid-heating apparatus. H. Junkers. No. 1,133,563; Mar. 30; Gaz. vol. 212; p. 1474.
- Liquid-heating apparatus. H. Junkers. No. 1,133,564; Mar. 30; Gaz. vol. 212; p. 1474.
- Liquid-holding vessel, Seal-locked. E. Tyden. No. 1,146,463; July 13; Gaz. vol. 216; p. 543.
- Liquid-impelling device. E. P. Holly. No. 1,131,519; Mar. 9; Gaz. vol. 212; p. 616.
- Liquid-level-alarm apparatus. L. Mozolan. No. 1,141,820; June 1; Gaz. vol. 215; p. 256.
- Liquid-level register and alarm. M. G. Crooks. No. 1,129,051; Feb. 16; Gaz. vol. 211; p. 926.
- Liquid-levels at a distance, Device for indicating. S. Q. Kline, Jr. No. 1,162,699; Nov. 30; Gaz. vol. 220; p. 1678.
- Liquid-levels, Attachment for indicating changes in. A. Scritta. No. 1,130,548; Mar. 2; Gaz. vol. 212; p. 249.
- Liquid-meter. H. C. Alger. No. 1,126,933; Feb. 2; Gaz. vol. 211; p. 94.
- Liquid-meter. H. C. Alger. No. 1,132,994; Mar. 23; Gaz. vol. 212; p. 1236.
- Liquid-meter. J. W. Ledoux. No. 1,129,209; Feb. 23; Gaz. vol. 211; p. 1015.
- Liquid-meter. A. Mass. No. 1,165,429; Dec. 28; Gaz. vol. 221; p. 1066.
- Liquid-meter. E. L. Reynolds. No. 1,125,176; Jan. 19; Gaz. vol. 210; p. 774.
- Liquid-mixing machine, Bottled. J. Sjaugen. No. 1,156,375; Oct. 12; Gaz. vol. 219; p. 390.
- Liquid mixtures into two components, Apparatus for separating. K. Kubierschky. No. 1,151,801; Aug. 31; Gaz. vol. 217; p. 1433.
- Liquid or gaseous radioactive substances, Package for dispensing small quantities of. E. Fendler. No. 1,152,083; Aug. 31; Gaz. vol. 217; p. 1531.
- Liquid or pasty materials—for instance, chocolate and the like, Apparatus for dividing more or less thick. F. W. Kettner. No. 1,156,407; Oct. 12; Gaz. vol. 219; p. 402.
- Liquid or viscous material, Machine for presenting. F. M. Furber. No. 1,145,412; July 6; Gaz. vol. 216; p. 152.
- Liquid-purifier, Electrical. A. Towne. No. 1,147,989; July 27; Gaz. vol. 216; p. 1122.
- Liquid resistance. A. Alchele. No. 1,161,576; Nov. 23; Gaz. vol. 220; p. 1248.
- Liquid-sampling apparatus. R. L. Chambers. No. 1,146,402; July 13; Gaz. vol. 216; p. 519.
- Liquid-sampling device. G. L. McKay. No. 1,156,240; Oct. 12; Gaz. vol. 219; p. 342.
- Liquid-separator. W. L. Morris. No. 1,147,881; July 27; Gaz. vol. 216; p. 1083.
- Liquid-separator, Automatic. O. H. Nonnenbruch. No. 1,162,185; Nov. 30; Gaz. vol. 220; p. 1506.
- Liquid-separators, Liner for centrifugal. C. A. Hult and K. A. E. Tinberg. No. 1,151,686; Aug. 31; Gaz. vol. 217; p. 1392.
- Liquid-separators, Regulating means for centrifugal. J. V. M. Risberg. No. 1,131,421; Mar. 9; Gaz. vol. 212; p. 582.
- Liquid-server. C. W. Corey. No. 1,152,607; Sept. 7; Gaz. vol. 218; p. 83.
- Liquid-serving device. W. P. Earnheart. No. 1,131,495; Mar. 9; Gaz. vol. 212; p. 608.
- Liquid sterilization. V. Henri. A. Helbronner, and M. von Recklinghausen. No. 1,124,737; Jan. 12; Gaz. vol. 210; p. 583.
- Liquid-sterilizer. V. Henri. A. Helbronner, and M. von Recklinghausen. No. 1,132,265; Mar. 16; Gaz. vol. 212; p. 920.
- Liquid-supply device. W. Jay. No. 1,132,943; Mar. 23; Gaz. vol. 212; p. 1217.
- Liquid-transferring means. J. A. Barr. No. 1,133,606; Mar. 30; Gaz. vol. 212; p. 1490.
- Liquid, Treating. C. P. Landreth. No. 1,131,067; Mar. 9; Gaz. vol. 212; p. 460.
- Liquid-treating apparatus. A. Jensen. No. 1,156,361; Oct. 12; Gaz. vol. 219; p. 384.
- Liquid-treating apparatus. H. M. Spross. No. 1,141,282; June 1; Gaz. vol. 215; p. 68.
- Liquids and fluids, and the products resulting therefrom, Process and apparatus for the electrical treatment of. J. E. Bloom. No. 1,162,213; Nov. 30; Gaz. vol. 220; p. 1515.
- Liquids and other materials, Method of and apparatus for testing. B. and E. Sági. No. 1,163,693; Dec. 14; Gaz. vol. 221; p. 381.
- Liquids and solids, Apparatus for treating mixtures of. A. E. Vandercook. No. 1,135,080; Apr. 13; Gaz. vol. 213; p. 400.
- Liquids and solids, Treating mixtures of. A. E. Vandercook. No. 1,139,825; May 18; Gaz. vol. 214; p. 814.
- Liquids, Apparatus for electrolytic purification of. J. L. Goucher. No. 1,145,862; July 6; Gaz. vol. 216; p. 310.
- Liquids, Apparatus for treating materials with. R. U. Bunker. No. 1,131,675; Mar. 16; Gaz. vol. 212; p. 705.
- Liquids by means of ultra-violet rays, Apparatus for sterilizing. V. Henri. A. Helbronner, and M. von Recklinghausen. No. 1,151,267; Aug. 24; Gaz. vol. 217; p. 1203.
- Liquids, Combining and emulsifying two or more. J. B. Vogelsang. No. 1,152,456; Sept. 7; Gaz. vol. 218; p. 26.
- Liquids, Decolorizing. F. R. Bachler. No. 1,131,308; Mar. 9; Gaz. vol. 212; p. 543.
- Liquids, Drying. O. S. Sleeper. No. 1,146,965; July 20; Gaz. vol. 216; p. 737.
- Liquids, Expressing. J. J. Berrigan. No. 1,130,879; Mar. 9; Gaz. vol. 212; p. 396.
- Liquids from solids, Apparatus for expressing. J. J. Berrigan. No. 1,130,701; Mar. 9; Gaz. vol. 212; p. 335.
- Liquids, Means for carbonating. H. Allot. No. 1,148,817; Aug. 3; Gaz. vol. 217; p. 120.
- Liquids, Packaging. F. Henneböhle and G. J. Patitz. No. 1,147,861; July 27; Gaz. vol. 216; p. 1077.
- Liquids, Pressure-regulator for fermenting. O. Keitel. No. 1,147,099; July 20; Gaz. vol. 216; p. 783.
- Liquids, Purification of. R. H. McKee. No. 1,133,049; Mar. 23; Gaz. vol. 212; p. 1256.
- Liquids, Safety storage-receptacle for combustible. G. H. Poor. No. 1,143,646; June 22; Gaz. vol. 215; p. 997.
- Liquids, Spraying. E. H. Peabody. No. 1,150,959; Aug. 24; Gaz. vol. 217; p. 1099.
- Liquids, Sterilization of. A. Helbronner and M. von Recklinghausen. No. 1,141,056; May 25; Gaz. vol. 214; p. 1279.
- Liquids, Treating. C. P. Landreth. No. 1,146,942; July 20; Gaz. vol. 216; p. 728.
- Liquids with gas, Apparatus for charging. J. F. and R. W. Wittemann. No. 1,155,983; Oct. 5; Gaz. vol. 219; p. 227.
- Liquids with gas, Apparatus for treating. T. K. Irwin. No. 1,129,682; Feb. 23; Gaz. vol. 211; p. 1179.
- Liquids with gases, Apparatus for impregnating. J. F. and R. W. Wittemann. No. 1,128,264; Feb. 9; Gaz. vol. 211; p. 600.
- Liquids with ultra-violet rays, Apparatus for treating. V. Henri. A. Helbronner, and M. von Recklinghausen. No. 1,140,818; May 25; Gaz. vol. 214; p. 1195.
- Liquids with ultra-violet rays, Apparatus for treating. V. Henri. A. Helbronner, and M. von Recklinghausen. No. 1,145,140; July 6; Gaz. vol. 216; p. 58.
- Liquors from wood-sulfite plants, Treating by-product. C. Marchand. No. 1,155,256; Sept. 28; Gaz. vol. 218; p. 1108.
- Liquors, Method and means for treatment of waste. H. K. Moore. No. 1,137,780; May 4; Gaz. vol. 214; p. 20.
- Listening-in-detecting device, Party-line. C. A. Kramer. No. 1,130,522; Mar. 2; Gaz. vol. 212; p. 239.
- Lister. A. J. Comer. No. 1,132,832; Mar. 23; Gaz. vol. 212; p. 1176.
- Lister. E. M. Heylman. No. 1,125,528; Jan. 19; Gaz. vol. 210; p. 899.
- Lister. E. M. Heylman. No. 1,125,529; Jan. 19; Gaz. vol. 210; p. 900.
- Listing device. A. F. Rosenberger. No. 1,153,520; Sept. 14; Gaz. vol. 218; p. 449.
- Lithium acetylsalicylate, Manufacturing. A. Busch. No. 1,129,953; Mar. 2; Gaz. vol. 212; p. 41.
- Lithographic plate and producing the same. C. Chisholm. No. 1,149,974; Aug. 10; Gaz. vol. 217; p. 637.
- Lithographic presses, Transfer-roller for. C. Wagner and A. Hormel. No. 1,129,435; Feb. 23; Gaz. vol. 211; p. 1095.
- Lithographic process. M. R. Wood. No. 1,135,749; Apr. 13; Gaz. vol. 213; p. 633.
- Lithographing. J. James. No. 1,162,168; Nov. 30; Gaz. vol. 220; p. 1500.
- Lithographs, Making. J. S. Freer. No. 1,128,436; Feb. 16; Gaz. vol. 211; p. 709.
- Litter and collapsible field-cot. A. Luria. No. 1,164,828; Dec. 21; Gaz. vol. 221; p. 818.
- Litter-carrier. H. W. Steege. No. 1,151,060; Aug. 24; Gaz. vol. 217; p. 1133.
- Loading apparatus. F. E. Anderson. No. 1,125,928; Jan. 26; Gaz. vol. 210; p. 1073.
- Load-box, Universal. J. L. Herman. No. 1,143,963; June 22; Gaz. vol. 215; p. 1105.
- Load control, Automatic driving. A. W. Warsen. No. 1,145,724; July 6; Gaz. vol. 216; p. 262.
- Load-regulator, Wind-wheel. J. A. Snee, Jr., and T. H. Kerr. No. 1,142,538; June 8; Gaz. vol. 215; p. 548.
- Load-supporting rack. C. Greene. No. 1,142,088; June 8; Gaz. vol. 215; p. 390.
- Load-trimmer. J. Dykes. No. 1,144,170; June 22; Gaz. vol. 215; p. 1184.
- Loads on pack-animals, Device for conveying. A. Berker and F. Sachtleben. No. 1,141,923; June 8; Gaz. vol. 215; p. 331.
- Loader, Bundle. G. Darrow. No. 1,145,752; July 6; Gaz. vol. 216; p. 272.
- Loading and screening coal and other material by power, Automatic machine for. A. H. Reynolds. No. 1,138,790; May 11; Gaz. vol. 214; p. 414.
- Loading and unloading apparatus. E. A. Swift. No. 1,164,143; Dec. 14; Gaz. vol. 221; p. 539.
- Loading apparatus. M. H. Byrne. No. 1,144,460; June 29; Gaz. vol. 215; p. 1309.
- Loading apparatus. R. P. Greenleaf. No. 1,162,768; Dec. 7; Gaz. vol. 221; p. 12.
- Loading apparatus. G. Manierre. No. 1,143,056; June 15; Gaz. vol. 215; p. 766.
- Loading apparatus. A. D. Mosby. No. 1,156,245; Oct. 12; Gaz. vol. 219; p. 344.

Alphabetical list of inventions—Continued.

- Loading device. B. M. Steele. No. 1,165,460; Dec. 28; Gaz. vol. 221; p. 1077.
 Loading device. E. K. Stockton. No. 1,129,432; Feb. 23; Gaz. vol. 211; p. 1093.
 Loading-hook. J. Utsman. No. 1,160,016; Nov. 9; Gaz. vol. 220; p. 597.
 Loading-machine. W. S. Mayers. No. 1,155,598; Oct. 5; Gaz. vol. 219; p. 95.
 Loading machine. Dirt-. J. E. Long. No. 1,145,379; July 6; Gaz. vol. 216; p. 140.
 Loaf-forming machine. H. Hackstedde. No. 1,126,449; Jan. 26; Gaz. vol. 210; p. 1262.
 Lock: *See*—
 Alarm-lock. Lever-lock.
 Automatically-locking lock. Lever and the like lock.
 Automobile-lock. Mail-bag lock.
 Automobile lever-lock. Mail-bag hasp-lock.
 Automobile safety-lock. Mail-bag-strap lock.
 Bag-lock. Mortise-lock.
 Baling-press-retainer lock. Nut-lock.
 Bed corner-lock. Nut and bolt lock.
 Bolt-lock. Nut or bolt lock.
 Bolt and nut lock. Oar-lock.
 Book-lock. Padlock.
 Bottle and jar lock. Permutation-lock.
 Bottle-stopper lock. Pin-tumbler lock.
 Box-lock. Pocket-lock.
 Brake-lock. Poison-container lock.
 Brake and lever lock. Printer's galley-lock.
 Burglar-alarm lock. Printing-press bed-lock.
 Cable or track lock. Recording-lock.
 Car-door lock. Robe-lock.
 Car-door safety-lock. Robe and whip lock.
 Chair-lock. Robe-rail lock.
 Coin and check operative Roller-lock.
 lock. Rope-lock.
 Coin-controlled lock. Safety-lock.
 Coin-operated lock. Safety-deposit-box lock.
 Combination-lock. Sash-lock.
 Coupling-lock. Seal-lock.
 Crate-lock. Shaft-lock.
 Curtain-rod lock. Shutter-lock.
 Cycle-lock. Springless lock.
 Cylinder-lock. Steering post lock.
 Differential lock. Steering-wheel lock.
 Door-lock. Suspender-lock.
 Electric lock. Switch-lock.
 Electric switch-lock. Switch-arm lock.
 Electrically-controlled lock. Switch-point lock.
 Elevator-lock. Table-lock.
 Elevator-door lock. Tank-lock.
 Elevator-gate lock. Time-lock.
 Elevator safety-lock. Time-recording lock.
 Exit-lock. Tire-rim lock.
 Firearm breech-lock. Transformable lock.
 Fixture-lock. Tube-coupling lock.
 Glass-mold lock. Type-writer key-lock.
 Handle-lock. Umbrella or like lock.
 Hasp-lock. Valve-lock.
 Hay-rack lock. Vault-lock.
 Hose-lock. Vehicle-lock.
 Hotel-lock. Vehicle door-lock.
 Indicator-lock. Wagon-seat lock.
 Key-lock. Wedge-lock.
 Key-changeable lock. Wheel-lock.
 Key-operated lock. Window-lock.
 Keyless lock. Window automatic lock.
 Knob-lock. Window-screen lock.
 Knob screw-lock. Wrench-lock.
 Lamp-lock.
 Lock. P. D. Angelo. No. 1,155,405; Oct. 5; Gaz. vol. 219; p. 28.
 Lock. G. Aston. No. 1,125,791; Jan. 19; Gaz. vol. 210; p. 995.
 Lock. G. R. Barker. No. 1,150,571; Aug. 17; Gaz. vol. 217; p. 909.
 Lock. A. C. Bell. No. 1,129,841; Mar. 2; Gaz. vol. 212; p. 3.
 Lock. S. S. Butler. No. 1,158,630; Nov. 2; Gaz. vol. 220; p. 78.
 Lock. J. Carlson. No. 1,162,569; Nov. 30; Gaz. vol. 220; p. 1637.
 Lock. S. C. Carr. No. 1,143,610; June 22; Gaz. vol. 215; p. 985.
 Lock. P. M. Coffin. No. 1,158,446; Nov. 2; Gaz. vol. 220; p. 12.
 Lock. B. W. Conaway. No. 1,126,709; Feb. 2; Gaz. vol. 211; p. 14.
 Lock. W. M. Dight. No. 1,146,407; July 13; Gaz. vol. 216; p. 521.
 Lock. H. Dunaway. No. 1,146,483; July 13; Gaz. vol. 216; p. 551.
 Lock. J. A. Fischer. No. 1,154,499; Sept. 21; Gaz. vol. 218; p. 820.
 Lock. J. Forsheim and J. Konigsberg. No. 1,149,643; Aug. 10; Gaz. vol. 217; p. 519.
 Lock. J. Forsheim and J. Konigsberg. No. 1,153,614; Sept. 14; Gaz. vol. 218; p. 482.
 Lock. F. M. Hettrick. No. 1,141,797; June 1; Gaz. vol. 215; p. 249.
 Lock. H. O. Höglund. No. 1,133,962; Mar. 30; Gaz. vol. 212; p. 1613.
 Lock. L. W. Holland. No. 1,147,092; July 20; Gaz. vol. 216; p. 781.
 Lock. M. M. Hunt. No. 1,134,614; Apr. 6; Gaz. vol. 213; p. 193.
 Lock. N. B. Hurd. No. 1,137,210; Apr. 27; Gaz. vol. 213; p. 1229.
 Lock. A. C. Jackson. No. 1,130,822; Mar. 9; Gaz. vol. 212; p. 375.
 Lock. F. I. Kimball. No. 1,137,762; May 4; Gaz. vol. 214; p. 14.
 Lock. F. Kosinsky. No. 1,134,141; Apr. 6; Gaz. vol. 213; p. 21.
 Lock. H. Lien. No. 1,157,407; Oct. 19; Gaz. vol. 219; p. 785.
 Lock. I. D. Merritt. No. 1,137,775; May 4; Gaz. vol. 214; p. 18.
 Lock. M. Morris. No. 1,159,067; Nov. 2; Gaz. vol. 220; p. 227.
 Lock. W. H. and J. G. Musselman. No. 1,164,743; Dec. 21; Gaz. vol. 221; p. 787.
 Lock. O. J. Olm. No. 1,139,218; May 11; Gaz. vol. 214; p. 564.
 Lock. A. A. Page. No. 1,126,560; Jan. 26; Gaz. vol. 210; p. 1305.
 Lock. A. A. Page. No. 1,137,785; May 4; Gaz. vol. 214; p. 22.
 Lock. A. A. Page. No. 1,137,786; May 4; Gaz. vol. 214; p. 23.
 Lock. A. A. Page. No. 1,137,787; May 4; Gaz. vol. 214; p. 23.
 Lock. A. A. Page. No. 1,138,580; May 4; Gaz. vol. 214; p. 298.
 Lock. A. A. Page. No. 1,138,594; May 4; Gaz. vol. 214; p. 304.
 Lock. A. A. Page. No. 1,150,617; Aug. 17; Gaz. vol. 217; p. 923.
 Lock. J. L. Pollock. No. 1,124,515; Jan. 12; Gaz. vol. 210; p. 503.
 Lock. J. L. Pollock. No. 1,165,443; Dec. 28; Gaz. vol. 221; p. 1072.
 Lock. C. J. Prinzler. No. 1,158,845; Nov. 2; Gaz. vol. 220; p. 154.
 Lock. D. G. Pughely. No. 1,165,627; Dec. 28; Gaz. vol. 221; p. 1135.
 Lock. J. A. Quirk, Jr. No. 1,145,265; July 6; Gaz. vol. 216; p. 101.
 Lock. S. E. Reutter. No. 1,164,016; Dec. 14; Gaz. vol. 221; p. 494.
 Lock. S. E. Reutter. No. 1,164,017; Dec. 14; Gaz. vol. 221; p. 494.
 Lock. H. E. Robb. No. 1,130,337; Mar. 2; Gaz. vol. 212; p. 172.
 Lock. D. M. Roberts. No. 1,148,626; Aug. 3; Gaz. vol. 217; p. 52.
 Lock. J. D. Sargent. No. 1,137,791; May 4; Gaz. vol. 214; p. 24.
 Lock. H. Schmidt. No. 1,127,291; Feb. 2; Gaz. vol. 211; p. 220.
 Lock. G. Schulz. No. 1,164,877; Dec. 21; Gaz. vol. 221; p. 834.
 Lock. S. Segal. No. 1,162,406; Nov. 30; Gaz. vol. 220; p. 1582.
 Lock. J. H. Shaw. No. 1,137,798; May 4; Gaz. vol. 214; p. 26.
 Lock. J. H. Shaw. No. 1,137,801; May 4; Gaz. vol. 214; p. 28.
 Lock. J. H. Shaw and A. A. Page. No. 1,137,799; May 4; Gaz. vol. 214; p. 27.
 Lock. A. L. Sohm. No. 1,128,632; Feb. 16; Gaz. vol. 211; p. 777.
 Lock. A. L. Sohn. No. 1,141,215; June 1; Gaz. vol. 215; p. 44.
 Lock. F. Soley. No. 1,141,019; May 25; Gaz. vol. 214; p. 1266.
 Lock. W. E. Sparks. No. 1,137,802; May 4; Gaz. vol. 214; p. 28.
 Lock. W. E. Sparks. No. 1,137,803; May 4; Gaz. vol. 214; p. 28.
 Lock. W. E. Sparks. No. 1,141,150; June 1; Gaz. vol. 215; p. 21.
 Lock. W. E. Sparks. No. 1,141,984; June 8; Gaz. vol. 215; p. 351.
 Lock. W. E. Sparks. No. 1,151,225; Aug. 24; Gaz. vol. 217; p. 1190.
 Lock. C. H. Stahl. No. 1,137,363; Apr. 27; Gaz. vol. 213; p. 1286.
 Lock. C. W. Stockburger. No. 1,165,813; Dec. 28; Gaz. vol. 221; p. 1200.
 Lock. G. N. Stricklan. No. 1,154,454; Sept. 21; Gaz. vol. 218; p. 806.
 Lock. L. Taddeo. No. 1,133,677; Mar. 30; Gaz. vol. 212; p. 1516.
 Lock. C. G. Taylor. No. 1,136,735; Apr. 20; Gaz. vol. 213; p. 1023.
 Lock. E. L. Teich. No. 1,154,142; Sept. 21; Gaz. vol. 218; p. 698.
 Lock. W. N. Thomas. No. 1,147,765; July 27; Gaz. vol. 216; p. 1043.
 Lock. J. Unterlender. No. 1,141,437; June 1; Gaz. vol. 215; p. 126.
 Lock. J. R. Upton. No. 1,154,078; Sept. 21; Gaz. vol. 218; p. 677.

Alphabetical list of inventions—Continued.

- Lock. B. Van Hoesen. No. 1,139,933; May 18; Gaz. vol. 214; p. 851.
- Lock. H. G. Voight. No. 1,152,457; Sept. 7; Gaz. vol. 218; p. 26.
- Lock. H. G. Voight. No. 1,161,553; Nov. 23; Gaz. vol. 220; p. 1240.
- Lock. Wiitala. No. 1,134,791; Apr. 6; Gaz. vol. 213; p. 259.
- Lock. C. L. and B. W. Wolfe. No. 1,152,776; Sept. 7; Gaz. vol. 218; p. 145.
- Lock-actuating mechanism. G. A. Fair. No. 1,162,229; Nov. 30; Gaz. vol. 220; p. 1521.
- Lock and butt-gage. Combined. M. F. Biersdorf. No. 1,142,138; June 8; Gaz. vol. 215; p. 407.
- Lock and key. B. Borland. No. 1,151,080; Aug. 24; Gaz. vol. 217; p. 1139.
- Lock and latch. Combined. D. Borland. No. 1,143,492; June 15; Gaz. vol. 215; p. 919.
- Lock and latch. Combined. F. Coleman. No. 1,145,185; July 6; Gaz. vol. 216; p. 74.
- Lock and latch. Combined. F. C. Shafer. No. 1,152,124; Aug. 31; Gaz. vol. 217; p. 1544.
- Lock and stay. Combined. J. C. O'Neill. No. 1,150,059; Aug. 17; Gaz. vol. 217; p. 726.
- Lock-bolt. A. Arens. No. 1,140,343; May 18; Gaz. vol. 214; p. 995.
- Lock control. Chain system of. W. P. Locke. No. 1,134,625; Apr. 6; Gaz. vol. 213; p. 197.
- Lock-deals. Combined shield and guard-lock for. R. C. Lewis. No. 1,166,231; Dec. 28; Gaz. vol. 221; p. 1351.
- Lock dial. Combination-. W. T. Benham. No. 1,156,658; Oct. 12; Gaz. vol. 219; p. 491.
- Lock dial. Combination-. W. T. Benham. No. 1,156,659; Oct. 12; Gaz. vol. 219; p. 491.
- Lock dial. Combination-. W. T. Benham. No. 1,158,969; Nov. 2; Gaz. vol. 220; p. 194.
- Lock for cans and the like. Mouthpiece-seal. E. Tyden. No. 1,145,099; July 6; Gaz. vol. 216; p. 45.
- Lock for trunks and similar articles. M. Schlesinger. No. 1,152,916; Sept. 7; Gaz. vol. 218; p. 197.
- Lock-guard. W. S. Farnsworth. No. 1,160,978; Nov. 16; Gaz. vol. 220; p. 990.
- Lock-indicator. E. Rennett. No. 1,161,158; Nov. 23; Gaz. vol. 220; p. 1099.
- Lock-joint. L. C. Shipley. No. 1,127,099; Feb. 22; Gaz. vol. 211; p. 154.
- Lock-key. Combination. A. Muscarella. No. 1,148,526; Aug. 3; Gaz. vol. 217; p. 15.
- Lock-key. Combination. A. Muscarella. No. 1,161,151; Nov. 23; Gaz. vol. 220; p. 1096.
- Lock mechanism. G. E. Cleaver. No. 1,126,180; Jan. 26; Gaz. vol. 210; p. 1168.
- Lock mechanism. G. E. Cleaver. No. 1,126,181; Jan. 26; Gaz. vol. 210; p. 1168.
- Lock mechanism. Breech-loading-gun. A. T. Dawson and G. T. Buckham. No. 1,147,217; July 20; Gaz. vol. 216; p. 825.
- Lock mechanism. Door-. L. Turk. No. 1,141,590; June 1; Gaz. vol. 215; p. 180.
- Lock safety device. G. Komarcsevit and G. Traiber. No. 1,135,589; Apr. 13; Gaz. vol. 213; p. 577.
- Lock-shield. J. L. Birdsong. No. 1,136,582; Apr. 20; Gaz. vol. 213; p. 969.
- Lock-strike. E. A. Miller. No. 1,130,754; Mar. 9; Gaz. vol. 212; p. 352.
- Lock-strikes. Gage and holder for. J. MacVane. No. 1,127,055; Feb. 2; Gaz. vol. 211; p. 138.
- Lock-washer. H. J. Hipple. No. 1,130,284; Mar. 2; Gaz. vol. 212; p. 154.
- Locks. Armor for pin-tumbler. W. H. Taylor. No. 1,140,209; May 18; Gaz. vol. 214; p. 949.
- Locks. Releasing-slide for combination-. R. C. Lewis. No. 1,166,232; Dec. 28; Gaz. vol. 221; p. 1351.
- Locks. Spring-pull for. H. L. Ewing. No. 1,143,896; June 22; Gaz. vol. 215; p. 1082.
- Locks. Tumbler for combination-. N. S.-G. Besharov. No. 1,156,741; Oct. 12; Gaz. vol. 219; p. 519.
- Locker. J. Griesmaier. No. 1,134,330; Apr. 6; Gaz. vol. 213; p. 91.
- Locking and clamping device. Combined. D. C. Klausmeyer. No. 1,140,906; May 25; Gaz. vol. 214; p. 1228.
- Locking-bolt for safe or vault doors and the like. Emergency. F. L. Horspool. No. 1,138,218; May 4; Gaz. vol. 214; p. 173.
- Locking-clamp. J. C. Backus. No. 1,156,739; Oct. 12; Gaz. vol. 219; p. 518.
- Locking-clip. L. Steinberger. No. 1,139,141; May 11; Gaz. vol. 214; p. 538.
- Locking-clip. L. Steinberger. No. 1,139,142; May 11; Gaz. vol. 214; p. 539.
- Locking device. M. F. Bohr. No. 1,143,029; June 15; Gaz. vol. 215; p. 757.
- Locking device. J. T. Corley. No. 1,150,999; Aug. 24; Gaz. vol. 217; p. 1112.
- Locking device. E. Favary. No. 1,146,317; July 13; Gaz. vol. 216; p. 489.
- Locking device. F. G. Feeley. No. 1,138,368; May 4; Gaz. vol. 214; p. 228.
- Locking device. G. S. Flickinger. No. 1,124,882; Jan. 12; Gaz. vol. 210; p. 636.
- Locking device. W. C. and C. R. Martineau. No. 1,149,205; Aug. 10; Gaz. vol. 217; p. 358.
- Locking device. O. V. Payne. No. 1,156,861; Oct. 12; Gaz. vol. 219; p. 561.
- Locking device. J. C. Richmond. No. 1,125,716; Jan. 19; Gaz. vol. 210; p. 968.
- Locking device. W. W. Schmidt. No. 1,149,090; Aug. 3; Gaz. vol. 217; p. 213.
- Locking device. H. J. Selk. No. 1,160,535; Nov. 16; Gaz. vol. 220; p. 832.
- Locking device. A. Vosatka and L. Cejka. No. 1,137,815; May 4; Gaz. vol. 214; p. 32.
- Locking device. Auxiliary. T. Bartholomew and H. J. Percy. No. 1,155,195; Sept. 28; Gaz. vol. 218; p. 1089.
- Locking device. Closure-. C. Riddle. No. 1,137,085; Apr. 27; Gaz. vol. 213; p. 1184.
- Locking device. Friction. C. A. Lindstrom. No. 1,153,556; Sept. 14; Gaz. vol. 218; p. 462.
- Locking device. Keyless. H. C. Shipman. No. 1,140,919; May 25; Gaz. vol. 214; p. 1233.
- Locking device. Safety. W. J. Fowler. No. 1,157,523; Oct. 19; Gaz. vol. 219; p. 825.
- Locking device. Safety. J. B. Jamieson, Jr. No. 1,162,238; Nov. 30; Gaz. vol. 220; p. 1524.
- Locking device. Safety. A. W. Koski and T. Casey. No. 1,126,488; Jan. 26; Gaz. vol. 210; p. 1276.
- Locking-hook. J. W. Furrey. No. 1,149,041; Aug. 3; Gaz. vol. 217; p. 197.
- Locking mechanism. S. Anderson. No. 1,163,612; Dec. 7; Gaz. vol. 221; p. 307.
- Locking mechanism. J. T. Binkley. No. 1,145,541; July 6; Gaz. vol. 216; p. 198.
- Locking mechanism. J. W. Stephenson. No. 1,152,129; Aug. 31; Gaz. vol. 217; p. 1546.
- Locking mechanism for boxes, cases, or trunks. J. T. Binkley. No. 1,132,824; Mar. 23; Gaz. vol. 212; p. 1174.
- Locket. E. B. Hough. No. 1,126,217; Jan. 26; Gaz. vol. 210; p. 1181.
- Locomotive. J. E. Bennett. No. 1,151,240; Aug. 24; Gaz. vol. 217; p. 1195.
- Locomotive. J. L. Canton and D. Hurley. No. 1,157,843; Oct. 26; Gaz. vol. 219; p. 998.
- Locomotive. J. Chidley and W. H. Winterrowd. No. 1,130,669; Mar. 2; Gaz. vol. 212; p. 290.
- Locomotive. J. L. Davis. No. 1,138,638; May 11; Gaz. vol. 214; p. 358.
- Locomotive. W. C. Evans. No. 1,136,947; Apr. 27; Gaz. vol. 213; p. 1134.
- Locomotive. D. T. Fisher. No. 1,132,838; Mar. 23; Gaz. vol. 212; p. 1178.
- Locomotive. L. B. Harris. No. 1,149,511; Aug. 10; Gaz. vol. 217; p. 467.
- Locomotive. W. F. Kiesel, Jr. No. 1,162,243; Nov. 30; Gaz. vol. 220; p. 1526.
- Locomotive. A. B. Larson and E. Baptist. No. 1,158,814; Nov. 2; Gaz. vol. 220; p. 143.
- Locomotive. N. D. Levin. No. 1,132,727; Mar. 23; Gaz. vol. 212; p. 1136.
- Locomotive. P. J. Rock. No. 1,138,894; May 11; Gaz. vol. 214; p. 450.
- Locomotive. F. L. Sessions. No. 1,132,799; Mar. 23; Gaz. vol. 212; p. 1164.
- Locomotive. F. D. Sheldon. No. 1,164,760; Dec. 21; Gaz. vol. 221; p. 793.
- Locomotive. S. G. Thomson. No. 1,145,524; July 6; Gaz. vol. 216; p. 192.
- Locomotive. S. G. Thomson. No. 1,152,863; Sept. 7; Gaz. vol. 218; p. 178.
- Locomotive and cable-reeling mechanism, Electric. F. C. Coseo. No. 1,160,857; Nov. 16; Gaz. vol. 220; p. 948.
- Locomotive-arrester. Automatic. A. C. Farley. No. 1,151,170; Aug. 24; Gaz. vol. 217; p. 1170.
- Locomotive baffle-wall. A. H. Willett. No. 1,143,095; June 15; Gaz. vol. 215; p. 781.
- Locomotive-boiler. C. Ducas and H. S. Coleman. No. 1,143,694; June 22; Gaz. vol. 215; p. 1013.
- Locomotive-boiler. F. F. Gaines. No. 1,138,059; May 4; Gaz. vol. 214; p. 119.
- Locomotive-boiler. W. G. Loy. No. 1,162,296; Nov. 30; Gaz. vol. 220; p. 1545.
- Locomotive-boiler. T. J. McKerihan. No. 1,132,200; Mar. 16; Gaz. vol. 212; p. 895.
- Locomotive-boiler. C. Miller. No. 1,164,741; Dec. 21; Gaz. vol. 221; p. 787.
- Locomotive-cab squirt. F. W. Edwards. No. 1,155,474; Oct. 5; Gaz. vol. 219; p. 53.
- Locomotive-cabs. Life-saving attachment for. W. A. Uttz. No. 1,147,464; July 20; Gaz. vol. 216; p. 912.
- Locomotive-cabs. Life-saving device for. W. A. Uttz. No. 1,147,465; July 20; Gaz. vol. 216; p. 912.
- Locomotive-cabs. Safety attachment for. W. A. Uttz. No. 1,130,354; Mar. 2; Gaz. vol. 212; p. 178.
- Locomotive cinder blower-trap. A. T. Randolph. No. 1,150,404; Aug. 17; Gaz. vol. 217; p. 953.
- Locomotive-coaling device. R. Keding. No. 1,166,052; Dec. 28; Gaz. vol. 221; p. 1282.
- Locomotive-curtain. W. F. Kelley and O. L. Wood. No. 1,131,525; Mar. 9; Gaz. vol. 212; p. 618.
- Locomotive draft-regulator. H. F. Stauffer. No. 1,154,669; Sept. 28; Gaz. vol. 218; p. 910.

Alphabetical list of inventions—Continued.

- Locomotive-drafter. J. H. MacLauchlan. No. 1,160,305; Nov. 16; Gaz. vol. 220; p. 751.
- Locomotive drafting device, Portable. A. J. Filkins. No. 1,165,957; Dec. 28; Gaz. vol. 221; p. 1249.
- Locomotive draw-gear. H. H. Vaughan. No. 1,163,119; Dec. 7; Gaz. vol. 221; p. 134.
- Locomotive drifting-valves, Connection for. A. G. Elvin and J. L. Mohun. No. 1,141,111; June 1; Gaz. vol. 215; p. 8.
- Locomotive driving-box. W. E. Woodard. No. 1,141,294; June 1; Gaz. vol. 215; p. 73.
- Locomotive driving-box and hub-liner. T. A. McKean. No. 1,156,911; Oct. 19; Gaz. vol. 219; p. 608.
- Locomotive driving-box brass, Adjustable. G. H. Langton. No. 1,150,375; Aug. 17; Gaz. vol. 217; p. 839.
- Locomotive-eccentric-lubricating device. R. L. Tate. No. 1,165,215; Dec. 21; Gaz. vol. 221; p. 955.
- Locomotive, Electric. F. C. Coseo. No. 1,124,211; Jan. 5; Gaz. vol. 210; p. 346.
- Locomotive, Electric. G. M. Eaton. No. 1,137,848; May 4; Gaz. vol. 214; p. 44.
- Locomotive, Electric. G. M. Eaton. No. 1,155,225; Sept. 28; Gaz. vol. 218; p. 1098.
- Locomotive, Electric. G. M. Eaton. No. 1,162,043; Nov. 30; Gaz. vol. 220; p. 1456.
- Locomotive, Electric. F. L. Sessions. No. 1,123,602; Jan. 5; Gaz. vol. 210; p. 138.
- Locomotive-engine soft-coal-burning and smoke-consuming apparatus. D. Burnfield. No. 1,150,338; Aug. 17; Gaz. vol. 217; p. 826.
- Locomotive-engine steam-pipe. G. F. Hess. No. 1,140,038; May 18; Gaz. vol. 214; p. 890.
- Locomotive, Equalizing means for a three-truck. F. B. Howell. No. 1,160,715; Nov. 16; Gaz. vol. 220; p. 899.
- Locomotive fire-box. F. A. Allinger. No. 1,165,932; Dec. 28; Gaz. vol. 221; p. 1241.
- Locomotive-fire-box arch. W. L. Hitchcock. No. 1,145,769; July 6; Gaz. vol. 216; p. 278.
- Locomotive-fire-box construction. L. Parish. No. 1,125,592; Jan. 19; Gaz. vol. 210; p. 921.
- Locomotive fire-boxes, Baffle-wall for. H. D. Savage. No. 1,138,045; May 4; Gaz. vol. 214; p. 113.
- Locomotive fire-boxes, Boiler attachment for. E. C. Rudolph. No. 1,142,731; June 8; Gaz. vol. 215; p. 611.
- Locomotive-frame. R. B. Farquhar, Jr. No. 1,159,200; Nov. 2; Gaz. vol. 220; p. 276.
- Locomotive front ends, Draft-regulating device in. T. B. Farington. No. 1,142,686; June 8; Gaz. vol. 215; p. 597.
- Locomotive-furnace. C. B. Moore. No. 1,138,037; May 4; Gaz. vol. 214; p. 110.
- Locomotive-furnace, Oil-burning. G. M. Bean. No. 1,138,065; May 4; Gaz. vol. 214; p. 121.
- Locomotive-furnace, Oil-burning. G. M. Bean. No. 1,138,067; May 4; Gaz. vol. 214; p. 122.
- Locomotive, Gathering. C. J. E. Waxbom. No. 1,150,911; Aug. 24; Gaz. vol. 217; p. 1082.
- Locomotive, Geared. S. M. Vaulchain and K. Rushton. No. 1,140,218; May 18; Gaz. vol. 214; p. 952.
- Locomotive injector attachment. C. R. Heath. No. 1,145,683; July 6; Gaz. vol. 216; p. 247.
- Locomotive-lubricator. E. McCoy. No. 1,136,689; Apr. 20; Gaz. vol. 213; p. 1006.
- Locomotive, Oil-burning. J. P. Neff. No. 1,138,063; May 4; Gaz. vol. 214; p. 120.
- Locomotive, Oil-burning. J. P. Neff. No. 1,138,064; May 4; Gaz. vol. 214; p. 121.
- Locomotive-pilot. M. F. Cox. No. 1,143,687; June 22; Gaz. vol. 215; p. 1011.
- Locomotive-pilot. F. J. Harrison and W. J. Knox. No. 1,135,520; Apr. 13; Gaz. vol. 213; p. 551.
- Locomotive-pilot. F. J. Harrison and W. J. Knox. No. 1,135,521; Apr. 13; Gaz. vol. 213; p. 552.
- Locomotive-pilot attachment. C. E. Mattison. No. 1,137,880; May 4; Gaz. vol. 214; p. 54.
- Locomotive-pilots and the like, Making. C. T. Westlake. No. 1,163,293; Dec. 7; Gaz. vol. 221; p. 195.
- Locomotive reversing-gear. W. F. J. Casey and G. Cavin. No. 1,124,589; Jan. 12; Gaz. vol. 210; p. 530.
- Locomotive reversing-gear, Hydropneumatic. E. L. Ragouet. No. 1,147,436; July 20; Gaz. vol. 216; p. 902.
- Locomotive reversing mechanism. S. G. Thomson. No. 1,150,645; Aug. 17; Gaz. vol. 217; p. 934.
- Locomotive sanding device. M. C. Glenn. No. 1,155,910; Oct. 5; Gaz. vol. 219; p. 204.
- Locomotive smoke-lifter. H. A. Hoke. No. 1,130,733; Mar. 9; Gaz. vol. 212; p. 345.
- Locomotive stop mechanism. W. W. Darke. No. 1,135,771; Apr. 13; Gaz. vol. 213; p. 640.
- Locomotive-stopping apparatus. J. W. Barnes, Jr. No. 1,124,583; Jan. 12; Gaz. vol. 210; p. 528.
- Locomotive-tender. T. Stewart. No. 1,157,445; Oct. 19; Gaz. vol. 219; p. 798.
- Locomotive-tenders, Coal-shifter for. H. H. Vaughan. No. 1,127,118; Feb. 2; Gaz. vol. 211; p. 161.
- Locomotive-tenders, Injector for. W. B. Smith. No. 1,153,138; Sept. 7; Gaz. vol. 218; p. 272.
- Locomotive-torch. A. S. Rece. No. 1,156,097; Oct. 12; Gaz. vol. 219; p. 295.
- Locomotive-washing apparatus. R. E. Jackson. No. 1,137,626; Apr. 27; Gaz. vol. 213; p. 1376.
- Locomotive water-column. W. M. Gray. No. 1,148,674; Aug. 3; Gaz. vol. 217; p. 69.
- Locomotive-wheels, Means for lowering and removing. W. J. Pamplin and S. C. Morton. No. 1,163,105; Dec. 7; Gaz. vol. 221; p. 129.
- Locomotive with cable-reeling mechanism. F. L. Sessions. No. 1,137,236; Apr. 27; Gaz. vol. 213; p. 1240.
- Locomotive with cable-reeling mechanism, Electric. D. T. Fisher. No. 1,124,003; Jan. 5; Gaz. vol. 210; p. 273.
- Locomotive with cable-reeling mechanism, Electric. N. D. Levin. No. 1,136,246; Apr. 20; Gaz. vol. 213; p. 848.
- Locomotive with haulage mechanism. F. L. Sessions. No. 1,139,810; May 18; Gaz. vol. 214; p. 808.
- Locomotive with haulage mechanism, Gathering. D. T. Fisher. No. 1,123,267; Jan. 5; Gaz. vol. 210; p. 22.
- Locomotives and the like, Draft-inducing means for. H. B. MacFarland. No. 1,125,361; Jan. 19; Gaz. vol. 210; p. 841.
- Locomotives, Block-signal control safety appliance for. G. W. Gerlach. No. 1,135,574; Apr. 13; Gaz. vol. 213; p. 571.
- Locomotives, Block-signal control safety appliance for. G. W. Gerlach. No. 1,135,575; Apr. 13; Gaz. vol. 213; p. 572.
- Locomotives, Cable-reeling mechanism for electric. N. A. Newdick. No. 1,125,152; Jan. 19; Gaz. vol. 210; p. 765.
- Locomotives, Cable-reeling mechanism for electric. F. L. Sessions and D. T. Fisher. No. 1,132,740; Mar. 23; Gaz. vol. 212; p. 1141.
- Locomotives, Cable-winding mechanism for. D. T. Fisher. No. 1,132,839; Mar. 23; Gaz. vol. 212; p. 1178.
- Locomotives, Combined gravity and fluid-pressure sander for. E. A. Rives. No. 1,165,024; Dec. 21; Gaz. vol. 221; p. 885.
- Locomotives, Combined gravity and fluid-pressure sander for. E. A. Rives and H. B. Nabors. No. 1,133,319; Mar. 30; Gaz. vol. 212; p. 1385.
- Locomotives, Drifting attachment for. J. A. Pilcher. No. 1,132,030; Mar. 16; Gaz. vol. 212; p. 833.
- Locomotives, Link-operating mechanism for. J. Rank. No. 1,140,481; May 25; Gaz. vol. 214; p. 1080.
- Locomotives, Means for operating the clutches of rack. W. A. Austin. No. 1,124,990; Jan. 12; Gaz. vol. 210; p. 672.
- Locomotives, Oil-burning equipment for. B. P. Gilman. No. 1,145,985; July 13; Gaz. vol. 216; p. 373.
- Locomotives, Portable gas-producer for. B. Q. P. Foss. No. 1,156,399; Oct. 12; Gaz. vol. 219; p. 399.
- Locomotives, Relief-damper for. J. P. Staats. No. 1,148,342; July 27; Gaz. vol. 216; p. 1249.
- Locomotives, Smoke-consumer for. E. J. McGrouary and M. S. Van Dresar. No. 1,128,476; Feb. 16; Gaz. vol. 211; p. 724.
- Locomotives, Sprinkler device for. F. W. Martin. No. 1,147,418; July 20; Gaz. vol. 216; p. 896.
- Locomotives, Strainer for water-pipes upon. L. Bullington. No. 1,124,587; Jan. 12; Gaz. vol. 210; p. 529.
- Locust-destroyer. L. R. Sobrero. No. 1,164,231; Dec. 14; Gaz. vol. 221; p. 566.
- Log-loader. A. Anderson. No. 1,133,526; Mar. 30; Gaz. vol. 212; p. 1461.
- Log-peeler and cant-hook. A. L. Nicholas. No. 1,160,439; Nov. 16; Gaz. vol. 220; p. 797.
- Log-rolling machine. P. Pangerl. No. 1,136,258; Apr. 20; Gaz. vol. 213; p. 852.
- Log-skidding machine. J. R. McGiffert. No. 1,160,301; Nov. 16; Gaz. vol. 220; p. 750.
- Log-turner guide. G. M. Pelton. No. 1,133,315; Mar. 30; Gaz. vol. 212; p. 1384.
- Loss, Device for recovering submerged. J. M. Munn. No. 1,165,893; Dec. 28; Gaz. vol. 221; p. 1228.
- Logging butt-hook. C. E. Sullivan. No. 1,161,751; Nov. 23; Gaz. vol. 220; p. 1307.
- Logging-car. W. Clark. No. 1,147,311; July 20; Gaz. vol. 216; p. 855.
- Logging-car stake. J. W. Pope. No. 1,147,972; July 27; Gaz. vol. 216; p. 1116.
- Logging-hook. H. Hardisty. No. 1,139,761; May 18; Gaz. vol. 214; p. 790.
- Logging system. F. M. Shaw. No. 1,151,299; Aug. 24; Gaz. vol. 217; p. 1214.
- Logotype-machine. J. Riehl. No. 1,137,353; Apr. 27; Gaz. vol. 213; p. 1283.
- Long bolt and knob-lock, Combined. B. W. and C. L. Wolfe. No. 1,159,635; Nov. 9; Gaz. vol. 220; p. 461.
- Long-time burner. F. W. L. Dressel. No. 1,145,873; July 6; Gaz. vol. 216; p. 315.
- Loom. E. B. Bliss. No. 1,160,132; Nov. 16; Gaz. vol. 220; p. 691.
- Loom. A. J. Chevette. No. 1,126,391; Jan. 26; Gaz. vol. 210; p. 1242.
- Loom. S. B. Cutting. No. 1,145,124; July 6; Gaz. vol. 216; p. 53.
- Loom. L. Girard. No. 1,152,311; Aug. 31; Gaz. vol. 217; p. 1608.
- Loom. A. H. Henderson and J. T. Mahon. No. 1,141,635; June 1; Gaz. vol. 215; p. 195.
- Loom. J. M. Holladay. No. 1,128,872; Feb. 16; Gaz. vol. 211; p. 860.

Alphabetical list of inventions—Continued.

- Loom. S. S. Jackson. No. 1,131,608; Mar. 9; Gaz. vol. 212; p. 647.
- Loom. C. B. Lane. No. 1,145,425; July 6; Gaz. vol. 216; p. 156.
- Loom. H. Langer. No. 1,135,701; Apr. 13; Gaz. vol. 213; p. 617.
- Loom. C. A. Littlefield. No. 1,135,969; Apr. 13; Gaz. vol. 213; p. 710.
- Loom. L. C. Lobato. No. 1,154,644; Sept. 28; Gaz. vol. 218; p. 901.
- Loom. W. J. Lutton. No. 1,139,200; May 11; Gaz. vol. 214; p. 559.
- Loom. W. H. Rankin. No. 1,134,063; Mar. 30; Gaz. vol. 212; p. 1647.
- Loom. F. D. Raymond. No. 1,152,905; Sept. 7; Gaz. vol. 218; p. 193.
- Loom. I. Snow. No. 1,132,223; Mar. 16; Gaz. vol. 212; p. 903.
- Loom attachment. C. H. Burckhalter. No. 1,147,675; July 20; Gaz. vol. 216; p. 986.
- Loom attachment. C. C. Evans. No. 1,146,697; July 13; Gaz. vol. 216; p. 623.
- Loom attachment. E. Hall. No. 1,125,843; Jan. 19; Gaz. vol. 210; p. 1011.
- Loom attachment. P. Reilly. No. 1,142,624; June 8; Gaz. vol. 215; p. 577.
- Loom. Automatic filling-replenishing. R. Crompton. (Reissue.) No. 13,948; July 20; Gaz. vol. 216; p. 994.
- Loom. Automatic multiple-shuttle textile. L. E. Salisbury. No. 1,161,979; Nov. 30; Gaz. vol. 220; p. 1434.
- Loom. Automatic weft-replenishing. J. R. Pitton. No. 1,146,147; July 13; Gaz. vol. 216; p. 431.
- Loom. Automatic weft-replenishing. J. Northrop. No. 1,142,725; June 8; Gaz. vol. 215; p. 609.
- Loom beam-roll weight-lifter. O. O'Sullivan. No. 1,150,060; Aug. 17; Gaz. vol. 217; p. 727.
- Loom bobbin-feeler stop-motion. J. C. Liberty. No. 1,124,044; Jan. 5; Gaz. vol. 210; p. 287.
- Loom. Circular. M. R. Rhomoser. No. 1,139,073; May 11; Gaz. vol. 214; p. 514.
- Loom. Circular. V. Royle. No. 1,153,576; Sept. 14; Gaz. vol. 218; p. 469.
- Loom. Corn. C. B. Hutchins. No. 1,130,603; Mar. 2; Gaz. vol. 212; p. 267.
- Loom-dobby. W. Schenka. No. 1,159,999; Nov. 9; Gaz. vol. 220; p. 592.
- Loom feeder-motion. H. A. Owen. No. 1,127,086; Feb. 2; Gaz. vol. 211; p. 149.
- Loom filling-end controller. E. S. Stimpson. No. 1,132,227; Mar. 16; Gaz. vol. 212; p. 905.
- Loom. Filling-replenishing. T. Martin. No. 1,140,520; May 25; Gaz. vol. 214; p. 1095.
- Loom. Filling-replenishing. A. E. Rhoades. No. 1,124,527; Jan. 12; Gaz. vol. 210; p. 507.
- Loom for the mechanical manufacture of lace. J. Farigoule. No. 1,135,782; Apr. 13; Gaz. vol. 213; p. 643.
- Loom for weaving double pile fabrics. A. W. Binz. No. 1,137,832; May 4; Gaz. vol. 214; p. 38.
- Loom for weaving oriental and other knot-stitch carpets. Power. C. and A. Renard. No. 1,164,117; Dec. 14; Gaz. vol. 221; p. 529.
- Loom for weaving pile fabrics. A. Veluard. No. 1,159,435; Nov. 9; Gaz. vol. 220; p. 389.
- Loom for weaving pile fabrics. A. Veluard. No. 1,159,436; Nov. 9; Gaz. vol. 220; p. 390.
- Loom for weaving pile fabrics. B. Walker and A. Spink. No. 1,165,047; Dec. 21; Gaz. vol. 221; p. 894.
- Loom for weaving tubular fabrics. A. E. Charnack. No. 1,129,642; Feb. 23; Gaz. vol. 211; p. 1167.
- Loom for weaving tufted fabric. G. F. Hutchins. No. 1,142,170; June 8; Gaz. vol. 215; p. 418.
- Loom for weaving wire fabric. O. W. Benster. No. 1,152,592; Sept. 7; Gaz. vol. 218; p. 79.
- Loom harness mechanism. H. Le Doux. No. 1,161,392; Nov. 23; Gaz. vol. 220; p. 1184.
- Loom harness stop-motion. E. Gagnon. No. 1,133,464; Mar. 30; Gaz. vol. 212; p. 1437.
- Loom head-motion. H. Le Doux. No. 1,164,104; Dec. 14; Gaz. vol. 221; p. 525.
- Loom. Leno or cross-weaving. H. A. Davis. No. 1,160,266; Nov. 16; Gaz. vol. 220; p. 738.
- Loom let-off. L. H. Landry. No. 1,124,465; Jan. 12; Gaz. vol. 210; p. 486.
- Loom let-offs, Brake mechanism for. T. J. Longden. No. 1,153,636; Sept. 14; Gaz. vol. 218; p. 489.
- Loom. Multicolor. J. Pointu. No. 1,147,186; July 20; Gaz. vol. 216; p. 813.
- Loom. Narrow-ware. A. Weimar. No. 1,135,641; Apr. 13; Gaz. vol. 213; p. 595.
- Loom. Needle. W. G. Stewart. No. 1,164,137; Dec. 14; Gaz. vol. 221; p. 537.
- Loom pattern mechanism. A. A. Gordon, Jr. No. 1,142,161; June 8; Gaz. vol. 215; p. 415.
- Loom pick-motion. G. F. Hutchins and L. B. Jenckes. No. 1,164,094; Dec. 14; Gaz. vol. 221; p. 521.
- Loom-picker. H. Sillocks and C. H. Heldel. No. 1,126,582; Jan. 26; Gaz. vol. 210; p. 1314.
- Loom picker-stick attachment. F. Bernier. No. 1,153,595; Sept. 14; Gaz. vol. 218; p. 476.
- Loom picking device, Power-. G. Schwabe. No. 1,147,124; July 20; Gaz. vol. 216; p. 791.
- Loom picking mechanism. M. H. Maloney. No. 1,136,824; Apr. 20; Gaz. vol. 213; p. 1055.
- Loom picking-motion, Weaving-. E. Zipper. No. 1,138,528; May 4; Gaz. vol. 214; p. 282.
- Loom picking or shuttle-actuating mechanism. G. W. Shackleton. No. 1,164,129; Dec. 14; Gaz. vol. 221; p. 534.
- Loom. Pile-fabric. G. Crossland. No. 1,126,714; Feb. 2; Gaz. vol. 211; p. 16.
- Loom-reed. R. Müller. No. 1,158,828; Nov. 2; Gaz. vol. 220; p. 148.
- Loom-reed. E. Weiershaus. No. 1,158,347; Oct. 26; Gaz. vol. 219; p. 1174.
- Loom-shuttle. R. N. Allen. No. 1,145,651; July 6; Gaz. vol. 216; p. 237.
- Loom-shuttle. P. Ferrari. No. 1,151,517; Aug. 24; Gaz. vol. 217; p. 1288.
- Loom-shuttle. P. Ferrari. No. 1,161,646; Nov. 23; Gaz. vol. 220; p. 1271.
- Loom-shuttle. H. W. Hakes. No. 1,129,193; Feb. 23; Gaz. vol. 211; p. 1009.
- Loom-shuttle. P. F. Higgins. No. 1,141,186; June 1; Gaz. vol. 215; p. 34.
- Loom-shuttle. A. Isherwood. No. 1,156,404; Oct. 12; Gaz. vol. 219; p. 401.
- Loom-shuttle. R. A. Taylor. No. 1,150,402; Aug. 17; Gaz. vol. 217; p. 849.
- Loom-shuttle. Automatically-threading. A. E. Rhoades. No. 1,138,316; May 4; Gaz. vol. 214; p. 208.
- Loom shuttle-reloader. S. S. Jackson. No. 1,130,605; Mar. 2; Gaz. vol. 212; p. 268.
- Loom-shuttle. Self-threading. F. A. Guillelte. No. 1,154,011; Sept. 21; Gaz. vol. 218; p. 654.
- Loom shuttle-straightening machine. E. Bellavance, Jr. No. 1,161,828; Nov. 30; Gaz. vol. 220; p. 1380.
- Loom shuttle-tension. J. Poisson. No. 1,138,310; May 4; Gaz. vol. 214; p. 206.
- Loom shuttle-tension device. E. Burgess. No. 1,146,689; July 13; Gaz. vol. 216; p. 620.
- Loom shuttle-threading device. R. Fielding. No. 1,161,204; Nov. 23; Gaz. vol. 220; p. 1117.
- Loom-shuttles, Tension device for. P. Boisvert. No. 1,162,215; Nov. 30; Gaz. vol. 220; p. 1516.
- Loom stop-motion. T. Bouchard, J. V. Cuniff, and P. Joncas. No. 1,149,493; Aug. 17; Gaz. vol. 217; p. 880.
- Loom stop-motion. T. Goodwin and G. Cheetham. No. 1,131,833; Mar. 16; Gaz. vol. 212; p. 763.
- Loom stop-motion. C. D. Lanning. No. 1,147,249; July 20; Gaz. vol. 216; p. 836.
- Loom stop-motion. C. D. Lanning. No. 1,147,250; July 20; Gaz. vol. 216; p. 837.
- Loom stop-motion. W. J. Lutton. No. 1,158,945; Nov. 2; Gaz. vol. 220; p. 187.
- Loom stop-motion. J. J. Smith. No. 1,154,449; Sept. 21; Gaz. vol. 218; p. 805.
- Loom. Swivel-. E. H. Ryon. No. 1,161,345; Nov. 23; Gaz. vol. 220; p. 1167.
- Loom warp stop-motion. S. B. Cutting. No. 1,133,366; Mar. 30; Gaz. vol. 212; p. 1403.
- Loom warp stop-motion. S. S. Jackson. No. 1,143,120; June 15; Gaz. vol. 215; p. 789.
- Loom warp stop-motion. H. Koch and J. K. Müller. No. 1,129,692; Feb. 23; Gaz. vol. 211; p. 1181.
- Loom warp stop-motion. D. Osgood. No. 1,129,810; Feb. 23; Gaz. vol. 211; p. 1221.
- Loom. Weaving-. R. and J. Dantzer. No. 1,127,601; Feb. 9; Gaz. vol. 211; p. 368.
- Loom weft-parter. S. S. Jackson. No. 1,131,841; Mar. 16; Gaz. vol. 212; p. 766.
- Loom. Weft-replenishing. R. Crompton. No. 1,142,937; June 15; Gaz. vol. 215; p. 725.
- Loom. Weft-replenishing. S. S. Jackson. No. 1,133,802; Mar. 30; Gaz. vol. 212; p. 1560.
- Loom. Weft-replenishing. A. F. Morell. No. 1,150,448; Aug. 17; Gaz. vol. 217; p. 863.
- Loom. Weft-replenishing. H. A. Owen. No. 1,160,952; Nov. 16; Gaz. vol. 220; p. 981.
- Loom. Weft-replenishing. E. H. Ryon. No. 1,144,946; June 29; Gaz. vol. 215; p. 1474.
- Loom. Weft-replenishing. H. Wyman. No. 1,142,743; June 8; Gaz. vol. 215; p. 614.
- Loom. Weft-replenishing. H. Wyman and A. F. Morell. No. 1,150,477; Aug. 17; Gaz. vol. 217; p. 875.
- Loom. Weft-replenishing color-. R. Crompton. No. 1,142,938; June 15; Gaz. vol. 215; p. 725.
- Loom weft-replenishing mechanism. J. Whittaker, R. Bradshaw, and J. Briggs. No. 1,149,550; Aug. 10; Gaz. vol. 217; p. 481.
- Loom weft-severing device, Automatic-. A. Imbach. No. 1,157,397; Oct. 19; Gaz. vol. 219; p. 781.
- Looms. Automatic bobbin-change device for. J. C. A. Wenning. No. 1,152,250; Aug. 31; Gaz. vol. 217; p. 1587.
- Looms. Construction of shuttles and shuttle-boxes in over-pick weft-replenishing. J. Whittaker, J. Briggs, and R. Bradshaw. No. 1,132,893; Mar. 23; Gaz. vol. 212; p. 1197.
- Looms. Detector device for weft-replenishing mechanism of. T. Perkes. No. 1,130,329; Mar. 2; Gaz. vol. 212; p. 169.

Alphabetical list of inventions—Continued.

- Looms, Device for positioning shuttles in. J. Whittaker, R. Bradshaw, and J. Briggs. No. 1,149,484; Aug. 10; Gaz. vol. 217; p. 457.
- Looms, Feeler mechanism for. W. P. Straw. No. 1,150,976; Aug. 24; Gaz. vol. 217; p. 1104.
- Looms, Feeler mechanism for automatic filling-replenishing. U. Hebert. No. 1,151,010; Aug. 24; Gaz. vol. 217; p. 1116.
- Looms, Feeler-motion for. M. L. Stone. No. 1,149,168; Aug. 3; Gaz. vol. 217; p. 240.
- Looms, Filling-end controller for. E. S. Stimpson. No. 1,147,904; July 27; Gaz. vol. 216; p. 1092.
- Looms for weaving, Automatic weft-replenishing mechanism of. J. Whittaker, R. Bradshaw, and J. Briggs. No. 1,151,915; Aug. 31; Gaz. vol. 217; p. 1472.
- Looms for weaving, Pick-finder mechanism employed in. E. Hollingworth. No. 1,156,007; Oct. 5; Gaz. vol. 219; p. 236.
- Looms for weaving, Take-up motion of. D. M. Hollins. No. 1,130,599; Mar. 2; Gaz. vol. 212; p. 265.
- Looms for weaving tubular ties having reinforcements at the knot-tying spaces, Cam mechanism for. C. Seldman. No. 1,128,821; Feb. 16; Gaz. vol. 211; p. 843.
- Looms for weaving, Weft-replenishing mechanism for. J. Whittaker, R. Bradshaw, and J. Briggs. No. 1,161,566; Nov. 23; Gaz. vol. 220; p. 1245.
- Looms having movable shuttle-boxes, Feeler-motion for weft-replenishing. D. M. Hollins. No. 1,130,598; Mar. 2; Gaz. vol. 212; p. 265.
- Looms, Jacquard mechanism for. L. W. Brander and C. U. Surner. No. 1,158,782; Nov. 2; Gaz. vol. 220; p. 130.
- Looms, Machine for handling tuft-yarns for carpet. E. F. Hathaway and C. Lea. No. 1,152,379; Aug. 31; Gaz. vol. 217; p. 1633.
- Looms, Machine for handling tuft-yarns for carpet. E. F. Hathaway and C. Lea. No. 1,152,380; Aug. 31; Gaz. vol. 217; p. 1634.
- Looms, Machine for handling tuft-yarns for carpet. E. F. Hathaway and C. Lea. No. 1,153,864; Sept. 14; Gaz. vol. 218; p. 570.
- Looms, Mechanism for handling tuft-yarns for carpet. E. F. Hathaway and C. Lea. No. 1,153,865; Sept. 14; Gaz. vol. 218; p. 570.
- Looms, Mechanism for handling tuft-yarns for carpet. E. F. Hathaway and C. Lea. No. 1,153,866; Sept. 14; Gaz. vol. 218; p. 570.
- Looms, Mechanism for handling tuft-yarns for carpet. E. F. Hathaway and C. Lea. No. 1,153,867; Sept. 14; Gaz. vol. 218; p. 571.
- Looms, Multiplier for. H. O. Nelson. No. 1,145,030; July 6; Gaz. vol. 216; p. 20.
- Looms, Pile-thread-distributing blade for. C. and A. Renard. No. 1,163,109; Dec. 7; Gaz. vol. 221; p. 130.
- Looms, Reed construction for. J. C. Coombs. No. 1,146,478; July 13; Gaz. vol. 216; p. 549.
- Looms, Temple-cutter for automatic weft-replenishing. W. Gerrard. No. 1,128,440; Feb. 16; Gaz. vol. 211; p. 711.
- Looms, Thread-cutter for the depleted weft of weft-replenishing. E. H. Ballou. No. 1,138,272; May 4; Gaz. vol. 214; p. 192.
- Looms, Thread parting and holding means for. A. E. Rhoades. No. 1,134,487; Apr. 6; Gaz. vol. 213; p. 147.
- Looms, Warp-beam motion for. C. V. Handel. No. 1,161,364; Nov. 23; Gaz. vol. 220; p. 1175.
- Looms, Weft-bobbin-exchange device for. A. G. Koechlin. No. 1,142,569; June 8; Gaz. vol. 215; p. 558.
- Loop. H. D. Sargent. No. 1,135,724; Apr. 13; Gaz. vol. 213; p. 625.
- Loop-banding machine. F. S. Culver. No. 1,161,457; Nov. 23; Gaz. vol. 220; p. 1207.
- Loop-beater. W. B. Allbright. No. 1,161,180; Nov. 23; Gaz. vol. 220; p. 1107.
- Loop-drying machine, Automatic. B. A. Parkes. No. 1,125,910; Jan. 19; Gaz. vol. 210; p. 1035.
- Looping-machine. C. H. F. Keene. No. 1,152,105; Aug. 31; Gaz. vol. 217; p. 1537.
- Loose-leaf dispenser. M. M. Cohn. No. 1,129,276; Feb. 23; Gaz. vol. 211; p. 1038.
- Loose-leaf-dispensing device. H. P. Brown and C. L. Johnson. No. 1,135,658; Apr. 13; Gaz. vol. 213; p. 602.
- Loose-leaf-dispensing device. M. M. Cohn. No. 1,130,571; Mar. 2; Gaz. vol. 212; p. 257.
- Lorgnette. G. J. Lowres. No. 1,137,504; Apr. 27; Gaz. vol. 213; p. 1335.
- Loss-of-head gage. J. W. Ledoux. No. 1,152,189; Aug. 31; Gaz. vol. 217; p. 1566.
- Low-water alarm. W. D. Anderson and E. J. Shearer. No. 1,127,156; Feb. 2; Gaz. vol. 211; p. 174.
- Low-water alarm. B. W. Kadel, J. A. Pilcher, and H. W. Coddington. No. 1,127,010; Feb. 2; Gaz. vol. 211; p. 122.
- Low-water alarm. H. Neville. No. 1,164,664; Dec. 21; Gaz. vol. 221; p. 761.
- Low-water alarm for steam-boilers, &c. R. Wood. No. 1,147,835; July 27; Gaz. vol. 216; p. 1067.
- Lowering device. R. Méndez. No. 1,144,982; June 29; Gaz. vol. 215; p. 1486.
- Lubricant. L. D. Pettit. No. 1,143,724; June 22; Gaz. vol. 215; p. 1023.
- Lubricant and making same. A. Warrell. No. 1,133,204; Mar. 23; Gaz. vol. 212; p. 1311.
- Lubricant-conveying device. A. Peter. No. 1,126,071; Jan. 26; Gaz. vol. 210; p. 1127.
- Lubricant-cup. G. W. Bowen. No. 1,158,437; Nov. 2; Gaz. vol. 220; p. 9.
- Lubricant-dispenser. J. E. Ferguson. No. 1,162,997; Dec. 7; Gaz. vol. 221; p. 92.
- Lubricating apparatus. A. M. Alexander. No. 1,157,359; Oct. 19; Gaz. vol. 219; p. 767.
- Lubricating apparatus. A. M. Alexander. No. 1,157,360; Oct. 19; Gaz. vol. 219; p. 767.
- Lubricating apparatus. L. C. Freeman. No. 1,137,749; May 4; Gaz. vol. 214; p. 10.
- Lubricating apparatus. S. M. Jenkins. No. 1,163,410; Dec. 7; Gaz. vol. 221; p. 236.
- Lubricating apparatus. A. Magnuson. No. 1,162,794; Dec. 7; Gaz. vol. 221; p. 21.
- Lubricating apparatus. T. E. Willet. No. 1,134,656; Apr. 6; Gaz. vol. 213; p. 210.
- Lubricating apparatus for compressors and similar machines. G. F. Steedman. No. 1,162,262; Nov. 30; Gaz. vol. 220; p. 1533.
- Lubricating bearing-surfaces, Means for. M. A. Nicol. No. 1,140,056; May 18; Gaz. vol. 214; p. 896.
- Lubricating bearings, Means for. H. S. Pierce. No. 1,138,408; May 4; Gaz. vol. 214; p. 243.
- Lubricating bearings, Means for. T. J. Sturtevant. No. 1,130,118; Mar. 2; Gaz. vol. 212; p. 96.
- Lubricating-bolt. J. Büskens. No. 1,124,588; Jan. 12; Gaz. vol. 210; p. 530.
- Lubricating-cup. E. F. Glass. No. 1,158,201; Oct. 26; Gaz. vol. 219; p. 1124.
- Lubricating device. B. G. Beck. No. 1,161,590; Nov. 23; Gaz. vol. 220; p. 1253.
- Lubricating device. L. A. and R. H. Biggar. No. 1,135,873; Apr. 13; Gaz. vol. 213; p. 677.
- Lubricating device. W. A. Clark. No. 1,165,227; Dec. 21; Gaz. vol. 221; p. 958.
- Lubricating device. T. J. Clayton. No. 1,154,095; Sept. 21; Gaz. vol. 218; p. 683.
- Lubricating device. H. W. L. Fox. No. 1,165,402; Dec. 28; Gaz. vol. 221; p. 1057.
- Lubricating device. G. H. Garcelon. No. 1,150,026; Aug. 17; Gaz. vol. 217; p. 715.
- Lubricating device. E. C. George. No. 1,149,125; Aug. 3; Gaz. vol. 217; p. 224.
- Lubricating device. J. V. Hoffman. No. 1,156,779; Oct. 12; Gaz. vol. 219; p. 531.
- Lubricating device. B. Leland. No. 1,125,135; Jan. 19; Gaz. vol. 210; p. 759.
- Lubricating device. H. Lind. No. 1,134,880; Apr. 6; Gaz. vol. 213; p. 286.
- Lubricating device. W. McLaughlin. No. 1,157,023; Oct. 19; Gaz. vol. 219; p. 648.
- Lubricating device. A. C. E. Rateau. No. 1,125,173; Jan. 19; Gaz. vol. 210; p. 773.
- Lubricating device. I. Scranton. No. 1,128,820; Feb. 16; Gaz. vol. 211; p. 843.
- Lubricating device. O. Swanson. No. 1,163,484; Dec. 7; Gaz. vol. 221; p. 262.
- Lubricating device. R. Wood. No. 1,162,275; Nov. 30; Gaz. vol. 220; p. 1538.
- Lubricating device, Automatic. E. H. Nelson. No. 1,162,873; Dec. 7; Gaz. vol. 221; p. 49.
- Lubricating device, Emergency. G. Rapsch. No. 1,147,266; July 20; Gaz. vol. 216; p. 841.
- Lubricating device for bearings. J. Hall. No. 1,163,405; Dec. 7; Gaz. vol. 221; p. 234.
- Lubricating device for bearings. H. Hess. No. 1,140,375; May 25; Gaz. vol. 214; p. 1041.
- Lubricating device for gyratory crushers. R. Bernhard and J. M. Sholl. No. 1,145,967; July 13; Gaz. vol. 216; p. 366.
- Lubricating device for piston-rods. C. H. Van Maanen. No. 1,142,642; June 8; Gaz. vol. 215; p. 582.
- Lubricating device for steam-engine valves. S. Rosenzweig. No. 1,125,725; Jan. 19; Gaz. vol. 210; p. 972.
- Lubricating-device guard. C. Kuderer. No. 1,157,311; Oct. 19; Gaz. vol. 219; p. 750.
- Lubricating device, Sheave. M. Mulholland. No. 1,140,475; May 25; Gaz. vol. 214; p. 1078.
- Lubricating device, Spring. W. P. Thacher. No. 1,151,912; Aug. 31; Gaz. vol. 217; p. 1471.
- Lubricating device, Valved. W. W. Truxell and W. K. Wertz. No. 1,149,873; Aug. 10; Gaz. vol. 217; p. 599.
- Lubricating friction-surfaces. A. M. Alexander. No. 1,157,358; Oct. 19; Gaz. vol. 219; p. 766.
- Lubricating mechanism. L. Noyes. No. 1,143,307; June 15; Gaz. vol. 215; p. 855.
- Lubricating mechanism. L. Noyes. No. 1,151,815; Aug. 31; Gaz. vol. 217; p. 1438.
- Lubricating mechanism. A. Sundh. No. 1,132,748; Mar. 23; Gaz. vol. 212; p. 1144.
- Lubricating-ring. E. C. Haxton. No. 1,164,090; Dec. 14; Gaz. vol. 221; p. 520.
- Lubricating system. H. C. Martin. No. 1,157,241; Oct. 19; Gaz. vol. 219; p. 726.
- Lubricating system. W. L. Morris. No. 1,159,599; Nov. 9; Gaz. vol. 220; p. 448.
- Lubricating system. E. Sears. No. 1,165,719; Dec. 28; Gaz. vol. 221; p. 1169.

Alphabetical list of inventions—Continued.

- Lubricating system for compressors and similar machines. G. F. Steedman. No. 1,151,732; Aug. 31; Gaz. vol. 217; p. 1407.
- Lubricating system for pulverizers. M. Benjamin. No. 1,142,746; June 8; Gaz. vol. 215; p. 615.
- Lubricating system, Gravity-feed. F. A. Shoemaker and W. E. Archer. No. 1,131,011; Mar. 9; Gaz. vol. 212; p. 440.
- Lubrication, Method of. H. C. Loudenbeck. No. 1,129,304; Feb. 23; Gaz. vol. 211; p. 1049.
- Lubrication of motors. P. L. Leisse. No. 1,141,351; June 1; Gaz. vol. 215; p. 94.
- Lubricator: *See*—
- | | |
|------------------------|------------------------------------|
| Automatic lubricator. | Grease lubricator. |
| Axle-lubricator. | Journal-lubricator. |
| Cable-lubricator. | Locomotive-lubricator. |
| Car-lubricator. | Mill-roll lubricator. |
| Car-wheel lubricator. | Piston and plunger rod lubricator. |
| Drop-feed lubricator. | Saddle-lubricator. |
| Engine-lubricator. | Sight-feed lubricator. |
| Flange lubricator. | Spring-lubricator. |
| Force-feed lubricator. | Vehicle spring-lubricator. |
| Gearing-lubricator. | Wheel-lubricator. |
| Graphite lubricator. | Wheel-hange lubricator. |
- Lubricator. J. L. Allen. No. 1,144,988; July 6; Gaz. vol. 216; p. 3.
- Lubricator. A. F. Ames. No. 1,148,493; Aug. 3; Gaz. vol. 217; p. 3.
- Lubricator. O. Anderson. No. 1,140,557; May 25; Gaz. vol. 214; p. 1108.
- Lubricator. R. S. Campbell. No. 1,166,181; Dec. 28; Gaz. vol. 221; p. 1331.
- Lubricator. R. S. Campbell. No. 1,166,182; Dec. 28; Gaz. vol. 221; p. 1331.
- Lubricator. W. W. Corey. No. 1,152,398; Sept. 7; Gaz. vol. 218; p. 6.
- Lubricator. C. H. Crockett. No. 1,156,133; Oct. 12; Gaz. vol. 219; p. 307.
- Lubricator. N. W. Cummins. No. 1,129,648; Feb. 23; Gaz. vol. 211; p. 1169.
- Lubricator. H. A. Duc. No. 1,138,942; May 11; Gaz. vol. 214; p. 467.
- Lubricator. F. Flechter. No. 1,156,768; Oct. 12; Gaz. vol. 219; p. 528.
- Lubricator. F. Fleming. No. 1,129,187; Feb. 23; Gaz. vol. 211; p. 1007.
- Lubricator. D. E. Gainer and W. L. Stull. No. 1,133,554; Mar. 30; Gaz. vol. 212; p. 1470.
- Lubricator. J. S. Gaskins. No. 1,132,330; Mar. 16; Gaz. vol. 212; p. 944.
- Lubricator. J. W. Grantland. No. 1,152,020; Aug. 31; Gaz. vol. 217; p. 1508.
- Lubricator. H. Hansen. No. 1,133,375; Mar. 30; Gaz. vol. 212; p. 1406.
- Lubricator. F. W. Hodges. No. 1,129,035; Feb. 16; Gaz. vol. 211; p. 920.
- Lubricator. E. W. Johnston. No. 1,150,371; Aug. 17; Gaz. vol. 217; p. 838.
- Lubricator. D. F. Kilgour. No. 1,136,426; Apr. 20; Gaz. vol. 213; p. 913.
- Lubricator. W. W. Knight. No. 1,145,689; July 6; Gaz. vol. 216; p. 249.
- Lubricator. A. L. Knudsen. No. 1,152,520; Sept. 7; Gaz. vol. 218; p. 51.
- Lubricator. J. C. McDermand. No. 1,165,266; Dec. 21; Gaz. vol. 221; p. 971.
- Lubricator. C. A. Minsker. No. 1,161,506; Nov. 23; Gaz. vol. 220; p. 1224.
- Lubricator. O. H. Neiman. No. 1,137,274; Apr. 27; Gaz. vol. 213; p. 1254.
- Lubricator. T. L. Stroud. No. 1,127,309; Feb. 2; Gaz. vol. 211; p. 225.
- Lubricator. E. H. Sweeley. No. 1,147,986; July 27; Gaz. vol. 216; p. 1121.
- Lubricator. C. C. Wakefield. No. 1,154,353; Sept. 21; Gaz. vol. 218; p. 772.
- Lubricator. R. Wood. No. 1,135,644; Apr. 13; Gaz. vol. 213; p. 597.
- Lubricator. R. Wood. No. 1,158,614; Nov. 2; Gaz. vol. 220; p. 72.
- Lubricator. S. P. Woolf. No. 1,146,606; July 13; Gaz. vol. 216; p. 592.
- Lubricator. W. Wright. No. 1,157,488; Oct. 19; Gaz. vol. 219; p. 813.
- Lubricator-cup. C. F. Wray. No. 1,133,353; Mar. 30; Gaz. vol. 212; p. 1398.
- Lubricator-drive. T. A. Delaney. No. 1,131,340; Mar. 9; Gaz. vol. 212; p. 554.
- Lubricator-indicator. C. W. McKinley. No. 1,151,029; Aug. 24; Gaz. vol. 217; p. 1123.
- Lubricator mechanism. C. A. Richard. No. 1,162,253; Nov. 30; Gaz. vol. 220; p. 1530.
- Lubricator-plungers, Locking device for. R. W. Davis. No. 1,129,173; Feb. 23; Gaz. vol. 211; p. 1003.
- Lubricators, Attachment for displacement. R. F. Burke and J. E. Craven. No. 1,131,323; Mar. 9; Gaz. vol. 212; p. 549.
- Lubricators, Feed attachment for. F. W. Edwards. No. 1,149,564; Aug. 10; Gaz. vol. 217; p. 486.
- Lubricators, Feed-regulator for. G. S. Hoover. No. 1,128,449; Feb. 16; Gaz. vol. 211; p. 713.
- Lubricators, Feed-tip for. F. W. Edwards. No. 1,161,296; Nov. 23; Gaz. vol. 220; p. 1150.
- Lubricators, Intermittent operating mechanism for. B. H. Skelly. No. 1,160,539; Nov. 16; Gaz. vol. 220; p. 833.
- Lubricators, Sight-feed attachment for. F. W. Edwards. No. 1,149,563; Aug. 10; Gaz. vol. 217; p. 485.
- Lubricators, Tool for removing bull's-eyes from. C. E. Enos. No. 1,150,352; Aug. 17; Gaz. vol. 217; p. 832.
- Lug-strap holder. A. F. Schofield. No. 1,148,541; Aug. 3; Gaz. vol. 217; p. 20.
- Luggage-carrier. A. J. Musselman. No. 1,154,197; Sept. 21; Gaz. vol. 218; p. 716.
- Luggage-carrier. A. T. Reed. No. 1,141,004; May 25; Gaz. vol. 214; p. 1262.
- Lumber and product thereof, Drying. G. W. and G. B. McMullen. No. 1,125,862; Jan. 19; Gaz. vol. 210; p. 1017.
- Lumber-drier. A. S. Nichols. No. 1,138,136; May 4; Gaz. vol. 214; p. 147.
- Lumber-drying apparatus. A. S. Nichols. No. 1,140,762; May 25; Gaz. vol. 214; p. 1175.
- Lumber-packages, Means for hoisting and conveying. M. R. Colby and E. W. Taylor. No. 1,152,879; Sept. 7; Gaz. vol. 218; p. 183.
- Lumber, Preserving and improving. J. W. Illingworth. No. 1,158,404; Oct. 26; Gaz. vol. 219; p. 1196.
- Lumber stacker and unloader. C. E. Evans. No. 1,128,671; Feb. 16; Gaz. vol. 211; p. 791.
- Lumber-treating compound. J. P. Sullivan. No. 1,146,212; July 13; Gaz. vol. 216; p. 453.
- Lunch-box. R. A. Clark. No. 1,142,932; June 15; Gaz. vol. 215; p. 723.
- Lunch-box, Flat-unfolding. K. W. Gale. No. 1,129,343; Feb. 23; Gaz. vol. 211; p. 1062.
- Lunch-box, Folding. H. A. Larson. No. 1,131,638; Mar. 9; Gaz. vol. 212; p. 658.
- Lunch-box, Sanitary. L. Montgomery. No. 1,137,160; Apr. 27; Gaz. vol. 213; p. 1212.
- Lunch-room settle. H. S. Kelsey. No. 1,149,982; Aug. 10; Gaz. vol. 217; p. 639.
- Luncheon case and table, Portable. H. H. Labadie. No. 1,150,126; Aug. 17; Gaz. vol. 217; p. 751.
- Luting composition. J. C. Morris. No. 1,140,760; May 25; Gaz. vol. 214; p. 1175.
- Macaroni and thick fluid substances, Die for. P. J. Serio. No. 1,126,098; Jan. 26; Gaz. vol. 210; p. 1137.
- Macaroni die-plate. K. Gammel. No. 1,138,101; May 4; Gaz. vol. 214; p. 134.
- Machine and tool work, Means for supervision of. P. B. Delany. No. 1,154,386; Sept. 21; Gaz. vol. 218; p. 784.
- Machine-brake. J. C. McGee. No. 1,125,860; Jan. 19; Gaz. vol. 210; p. 1016.
- Machine-brake. A. R. Ogburn. No. 1,139,566; May 18; Gaz. vol. 214; p. 722.
- Machine-brake. E. W. Reeves. No. 1,164,116; Dec. 14; Gaz. vol. 221; p. 529.
- Machine-casing. J. L. Cabelinsky. No. 1,162,220; Nov. 30; Gaz. vol. 220; p. 1518.
- Machine-cover and chair, Combined. A. Masler. No. 1,156,367; Oct. 12; Gaz. vol. 219; p. 387.
- Machine-efficiency recorder. H. R. Ford. No. 1,154,983; Sept. 28; Gaz. vol. 218; p. 1014.
- Machine element. L. H. Baekeland. No. 1,160,364; Nov. 16; Gaz. vol. 220; p. 771.
- Machine element. N. M. Brown. No. 1,151,338; Aug. 24; Gaz. vol. 217; p. 1226.
- Machine element, Means for guiding a reciprocating non-rotating. G. Sipp. No. 1,139,591; May 18; Gaz. vol. 214; p. 730.
- Machine elements, Adjustment device for. R. W. Scott. No. 1,138,799; May 11; Gaz. vol. 214; p. 417.
- Machine-tool. F. Müller. No. 1,139,794; May 18; Gaz. vol. 214; p. 802.
- Machine-tool. A. F. Rockwell. No. 1,142,730; June 8; Gaz. vol. 215; p. 610.
- Machine-tool, Automatic. R. T. Hazelton and S. Einstein. No. 1,125,686; Jan. 19; Gaz. vol. 210; p. 957.
- Machine-tool control. A. L. De Leeuw. No. 1,144,935; June 29; Gaz. vol. 215; p. 1470.
- Machine-tool drive. J. E. Johnson. No. 1,153,311; Sept. 14; Gaz. vol. 218; p. 371.
- Machine-tool-holding device. G. Dubay. No. 1,149,346; Aug. 10; Gaz. vol. 217; p. 410.
- Machine-tool organization. A. L. De Leeuw. No. 1,130,685; Mar. 2; Gaz. vol. 212; p. 295.
- Machine-tools, Driving mechanism for the moving parts of automatic and semi-automatic. A. Bechler. No. 1,137,180; Apr. 27; Gaz. vol. 213; p. 1218.
- Machine with rotatory and oscillating pistons. C. H. O. Hamann. No. 1,150,430; Aug. 17; Gaz. vol. 217; p. 857.
- Machinery, Automatic control of. D. Du Bois. No. 1,161,932; Nov. 30; Gaz. vol. 220; p. 1418.
- Machinery, Return mechanism for moving parts of. B. Menkin. No. 1,151,211; Aug. 24; Gaz. vol. 217; p. 1185.
- Magnesia covering, Apparatus for delivering blocks of. G. V. Hurdle. No. 1,147,096; July 20; Gaz. vol. 216; p. 782.
- Magnesia, Obtaining. J. A. Bradburn. No. 1,156,662; Oct. 12; Gaz. vol. 219; p. 492.

Alphabetical list of inventions—Continued.

- Magnesium perborate, Manufacturing. W. Weber. No. 1,124,081; Jan. 5; Gaz. vol. 210; p. 300.
- Magnet and mount for the same, Tachometer-. T. J. Fischer. No. 1,155,346; Oct. 5; Gaz. vol. 219; p. 8.
- Magnet and solenoid, Electric. A. Simon. No. 1,142,852; June 15; Gaz. vol. 215; p. 894.
- Magnet-charger. P. Lynch and H. Wochner. No. 1,153,127; Sept. 7; Gaz. vol. 218; p. 269.
- Magnet controller, Lifting-. C. T. Henderson. No. 1,126,762; Feb. 2; Gaz. vol. 211; p. 35.
- Magnet-demagnetizing device, Brake-. E. L. Gale, Sr. No. 1,152,501; Sept. 7; Gaz. vol. 218; p. 43.
- Magnet, Lifting-. D. C. Jackson. No. 1,147,682; July 20; Gaz. vol. 216; p. 988.
- Magnetic brad-set. C. H. Parks. No. 1,141,073; May 25; Gaz. vol. 214; p. 1284.
- Magnetic controlling device. H. Grob. No. 1,161,819; Nov. 23; Gaz. vol. 220; p. 1331.
- Magnetic engine. R. Burnham. No. 1,144,998; July 6; Gaz. vol. 216; p. 7.
- Magnetic fields, Means for forming zones of varying and variable strength in. A. F. Jobke. No. 1,132,016; Mar. 16; Gaz. vol. 212; p. 829.
- Magnetic generator. T. W. Morgan. No. 1,153,944; Sept. 21; Gaz. vol. 218; p. 631.
- Magnetic separating apparatus. E. H. Rothert. No. 1,144,383; June 29; Gaz. vol. 215; p. 1282.
- Magnetic separator. M. Dings and R. A. Manegold. No. 1,136,215; Apr. 20; Gaz. vol. 213; p. 837.
- Magnetic separator. F. B. Dutton and B. E. McKechnie. No. 1,146,141; July 13; Gaz. vol. 216; p. 428.
- Magnetic separator. R. M. Folsom. No. 1,161,299; Nov. 23; Gaz. vol. 220; p. 1151.
- Magnetic separator. J. L. Hiller. No. 1,135,016; Apr. 13; Gaz. vol. 213; p. 378.
- Magnetic separator. A. H. Kidney. No. 1,137,492; Apr. 27; Gaz. vol. 213; p. 1331.
- Magnetic separator. D. L. Rand. No. 1,138,889; May 11; Gaz. vol. 214; p. 449.
- Magnetic separator. G. Ullrich. No. 1,129,822; Feb. 23; Gaz. vol. 211; p. 1225.
- Magnetic separator. G. Ullrich. No. 1,130,648; Mar. 2; Gaz. vol. 212; p. 282.
- Magnetic short-circuiting switch. L. and H. L. Bradley. No. 1,151,241; Aug. 24; Gaz. vol. 217; p. 1196.
- Magnetic switch. J. F. McElroy. No. 1,135,201; Apr. 13; Gaz. vol. 213; p. 442.
- Magnetic testing device. T. J. Murphy. No. 1,129,584; Feb. 23; Gaz. vol. 211; p. 1147.
- Magnetically-operated device. C. H. Rippl. No. 1,144,063; June 22; Gaz. vol. 215; p. 1141.
- Magneto. P. Hamm. No. 1,141,336; June 1; Gaz. vol. 215; p. 88.
- Magneto. D. B. Hughes. No. 1,143,119; June 15; Gaz. vol. 215; p. 789.
- Magneto. O. H. Lemke. No. 1,125,349; Jan. 19; Gaz. vol. 210; p. 837.
- Magneto. A. H. Neuland. No. 1,162,726; Nov. 30; Gaz. vol. 220; p. 1688.
- Magneto. J. E. Sheriff. No. 1,162,521; Nov. 30; Gaz. vol. 220; p. 1622.
- Magneto adjustment. C. B. Rose. No. 1,132,733; Mar. 23; Gaz. vol. 212; p. 1138.
- Magneto apparatus. R. Fischer. No. 1,131,921; Mar. 16; Gaz. vol. 212; p. 794.
- Magneto cord-circuit with secret service. R. I. Utter and H. P. Schmidt. No. 1,144,401; June 29; Gaz. vol. 215; p. 1289.
- Magneto driving mechanism. J. A. Williams. No. 1,144,016; June 22; Gaz. vol. 215; p. 1124.
- Magneto-generator. O. H. H. Heins. No. 1,140,155; May 18; Gaz. vol. 214; p. 931.
- Magneto-generator, Combination. W. C. Berling. No. 1,165,221; Dec. 21; Gaz. vol. 221; p. 957.
- Magneto-generator, Igniter. H. C. Mueller. No. 1,147,038; July 20; Gaz. vol. 216; p. 763.
- Magneto-generator, Ignition. H. C. Mueller. No. 1,133,053; Mar. 23; Gaz. vol. 212; p. 1257.
- Magneto hand-generator. H. P. Clausen. No. 1,159,359; Nov. 9; Gaz. vol. 220; p. 362.
- Magnetos, Initial spark for gas-engine. L. Haggblom. No. 1,137,609; Apr. 27; Gaz. vol. 213; p. 1370.
- Magnetometer. E. Garretson. No. 1,143,529; June 15; Gaz. vol. 215; p. 931.
- Magnifying instrument. E. A. Thompson. No. 1,148,550; Aug. 3; Gaz. vol. 217; p. 23.
- Mail and parcel-post box, Combination. A. Challeen. No. 1,137,740; May 4; Gaz. vol. 214; p. 7.
- Mail-bag. F. R. Clarke. No. 1,125,006; Jan. 12; Gaz. vol. 210; p. 679.
- Mail-bag. E. J. Shur. No. 1,131,964; Mar. 16; Gaz. vol. 212; p. 809.
- Mail-bag-cast-off device. G. H. Christy. No. 1,129,273; Feb. 23; Gaz. vol. 211; p. 1037.
- Mail-bag catcher. A. W. Dickerson. No. 1,155,221; Sept. 28; Gaz. vol. 218; p. 1096.
- Mail-bag catcher. M. Jowski. No. 1,138,296; May 4; Gaz. vol. 214; p. 201.
- Mail-bag catcher. W. C. and K. H. Lok. No. 1,153,697; Nov. 2; Gaz. vol. 220; p. 100.
- Mail-bag catcher. J. W. Moore. No. 1,141,817; June 1; Gaz. vol. 215; p. 255.
- Mail-bag catcher and deliverer. F. B. Knopp. No. 1,154,323; Sept. 21; Gaz. vol. 218; p. 761.
- Mail-bag catcher and deliverer. R. K. Perkins. No. 1,151,710; Aug. 31; Gaz. vol. 217; p. 1400.
- Mail-bag catching and delivering apparatus. T. J. Gorman. No. 1,155,911; Oct. 5; Gaz. vol. 219; p. 204.
- Mail-bag catching and delivering machine. J. Lulek. No. 1,142,107; June 8; Gaz. vol. 215; p. 397.
- Mail-bag crane. R. E. Moody. No. 1,145,257; July 6; Gaz. vol. 216; p. 99.
- Mail-bag deliverer. W. C. Cochran. No. 1,138,455; May 4; Gaz. vol. 214; p. 259.
- Mail-bag delivering and receiving device. O. E. J. Brubaker and G. Motes. No. 1,150,167; Aug. 17; Gaz. vol. 217; p. 767.
- Mail-bag-handling apparatus. I. E. and S. A. Shelley. No. 1,136,281; Apr. 20; Gaz. vol. 213; p. 861.
- Mail-bag hasp-lock. J. B. Doss. No. 1,151,673; Aug. 31; Gaz. vol. 217; p. 1387.
- Mail-bag holder. J. Huneke. No. 1,152,816; Sept. 7; Gaz. vol. 218; p. 160.
- Mail-bag holder. G. I. Shumaker. No. 1,140,006; May 18; Gaz. vol. 214; p. 878.
- Mail-bag lock. F. W. Neusüs. No. 1,158,538; Nov. 2; Gaz. vol. 220; p. 46.
- Mail-bag-pick-up mechanism. G. H. Christy. No. 1,150,417; Aug. 17; Gaz. vol. 217; p. 853.
- Mail-bag rack. D. H. Borgmeyer. No. 1,133,611; Mar. 30; Gaz. vol. 212; p. 1492.
- Mail-bag receiver. G. H. Christy. No. 1,127,732; Feb. 9; Gaz. vol. 211; p. 414.
- Mail-bag receiving and delivering apparatus. R. J. Harley. No. 1,141,793; June 1; Gaz. vol. 215; p. 248.
- Mail-bag receiving and delivering mechanism. A. Brown. No. 1,166,323; Dec. 28; Gaz. vol. 221; p. 1383.
- Mail-bag receiving and delivering mechanism. B. F. Nicoll. No. 1,133,998; Mar. 30; Gaz. vol. 212; p. 1624.
- Mail-bag retainer for mail-crane. L. C. Poulson and A. J. Buchanan. No. 1,144,241; June 22; Gaz. vol. 215; p. 1206.
- Mail-bag-strap lock. J. B. Gathright. No. 1,145,478; July 6; Gaz. vol. 216; p. 177.
- Mail-box. A. H. Ackman. No. 1,123,647; Jan. 5; Gaz. vol. 210; p. 154.
- Mail-box. A. D. Coon. No. 1,139,491; May 18; Gaz. vol. 214; p. 696.
- Mail-box. J. B. Cullen. No. 1,151,666; Aug. 31; Gaz. vol. 217; p. 1385.
- Mail-box. J. W. Cutler. No. 1,138,633; May 11; Gaz. vol. 214; p. 356.
- Mail-box. A. O. Delonais. No. 1,129,382; Feb. 23; Gaz. vol. 211; p. 1078.
- Mail-box. J. E. Fisher. No. 1,164,935; Dec. 21; Gaz. vol. 221; p. 855.
- Mail-box. C. E. Glass. No. 1,128,969; Feb. 16; Gaz. vol. 211; p. 897.
- Mail-box. H. D. Graves. No. 1,155,146; Sept. 28; Gaz. vol. 218; p. 1073.
- Mail-box. R. L. Hill. No. 1,151,101; Aug. 24; Gaz. vol. 217; p. 1146.
- Mail-box. M. B. Hubbard. No. 1,130,288; Mar. 2; Gaz. vol. 212; p. 155.
- Mail-box. W. E. Jenks. No. 1,146,940; July 20; Gaz. vol. 216; p. 728.
- Mail-box. C. C. Klingaman. No. 1,150,039; Aug. 17; Gaz. vol. 217; p. 720.
- Mail-box. J. Kryczka. No. 1,147,953; July 27; Gaz. vol. 216; p. 1109.
- Mail-box. J. E. Loudenslager, Jr. No. 1,141,806; June 1; Gaz. vol. 215; p. 252.
- Mail-box. L. L. Markland. No. 1,164,837; Dec. 21; Gaz. vol. 221; p. 821.
- Mail-box. T. E. Mela. No. 1,125,584; Jan. 19; Gaz. vol. 210; p. 918.
- Mail-box. W. Morrison. No. 1,146,896; July 20; Gaz. vol. 216; p. 711.
- Mail-box. J. Ostachowski. No. 1,140,914; May 25; Gaz. vol. 214; p. 1231.
- Mail-box. S. Ptak and A. Sadlik. No. 1,144,566; June 29; Gaz. vol. 215; p. 1343.
- Mail-box. H. Razny. No. 1,136,050; Apr. 20; Gaz. vol. 213; p. 778.
- Mail-box. W. J. Ryland. No. 1,128,529; Feb. 16; Gaz. vol. 211; p. 742.
- Mail-box. F. Slagow. No. 1,136,979; Apr. 27; Gaz. vol. 213; p. 1144.
- Mail-box. J. C. Trimble. No. 1,142,286; June 8; Gaz. vol. 215; p. 459.
- Mail-box. C. F. Utterback. No. 1,128,919; Feb. 16; Gaz. vol. 211; p. 878.
- Mail-box. A. B. Wisner. No. 1,132,756; Mar. 23; Gaz. vol. 212; p. 1147.
- Mail-box and milk-bottle holder, Combined. F. T. Wakefield. No. 1,154,900; Sept. 28; Gaz. vol. 218; p. 986.
- Mail-box attachment. A. Anderson. No. 1,123,650; Jan. 5; Gaz. vol. 210; p. 155.
- Mail-box, Combination letter and package. H. R. Hutchison and E. U. Bay. No. 1,145,419; July 6; Gaz. vol. 216; p. 155.
- Mail-box, Combined letter and parcel-post. J. A. Waugh. No. 1,130,047; Mar. 2; Gaz. vol. 212; p. 72.

Alphabetical list of inventions—Continued.

- Mail-box, Electric-alarm. B. D. Miller. No. 1,157,949; Oct. 26; Gaz. vol. 219; p. 1035.
- Mail-box-elevating apparatus. J. D. Browne. No. 1,148,951; Aug. 3; Gaz. vol. 217; p. 165.
- Mail-box name-plate. E. F. Toomy and W. J. Lavery. No. 1,146,907; July 20; Gaz. vol. 216; p. 715.
- Mail-box, Parcel-post. J. Wymore. No. 1,150,409; Aug. 17; Gaz. vol. 217; p. 851.
- Mail-box signal. A. R. Bennett. No. 1,139,155; May 11; Gaz. vol. 214; p. 544.
- Mail-box signal. E. C. Palmer. No. 1,149,781; Aug. 10; Gaz. vol. 217; p. 566.
- Mail-box signal. C. B. Ulery. No. 1,141,024; May 25; Gaz. vol. 214; p. 1268.
- Mail-box, Traveling rural. C. W. Sissom. No. 1,131,744; Mar. 16; Gaz. vol. 212; p. 729.
- Mail-boxes, Coin-receptacle for. H. C. Pilant. No. 1,136,974; Apr. 27; Gaz. vol. 213; p. 1143.
- Mail-cabinet. H. J. Westfield. No. 1,142,865; June 15; Gaz. vol. 215; p. 699.
- Mail-cart. K. G. Barron. No. 1,130,464; Mar. 2; Gaz. vol. 212; p. 219.
- Mail-catcher. C. F. Jackson. No. 1,156,844; Oct. 12; Gaz. vol. 219; p. 554.
- Mail-catcher. L. E. McHugh. No. 1,150,281; Aug. 17; Gaz. vol. 217; p. 807.
- Mail-catcher. W. T. Mercer. No. 1,157,244; Oct. 19; Gaz. vol. 219; p. 727.
- Mail-catcher. J. S. Richeson. No. 1,154,807; Sept. 28; Gaz. vol. 218; p. 955.
- Mail-catcher. L. W. Springstein. No. 1,130,035; Mar. 2; Gaz. vol. 212; p. 67.
- Mail-catching apparatus. W. T. O'Hara. No. 1,138,780; May 11; Gaz. vol. 214; p. 410.
- Mail-chute. A. K. Smith. No. 1,138,696; May 11; Gaz. vol. 214; p. 379.
- Mail-chute. A. K. Smith. No. 1,145,443; July 6; Gaz. vol. 216; p. 164.
- Mail-chute. A. K. Smith. No. 1,145,444; July 6; Gaz. vol. 216; p. 164.
- Mail-chute. F. J. Wuesthoff. No. 1,124,095; Jan. 5; Gaz. vol. 210; p. 304.
- Mail-container. J. P. Sander. No. 1,151,827; Aug. 31; Gaz. vol. 217; p. 1442.
- Mail-container, Knockdown. L. F. Grosenbeck. No. 1,135,892; Apr. 13; Gaz. vol. 213; p. 683.
- Mail-crane. E. G. Livesay. No. 1,159,849; Nov. 9; Gaz. vol. 220; p. 540.
- Mail-crane. F. Quist. No. 1,128,511; Feb. 16; Gaz. vol. 211; p. 735.
- Mail-crane. J. H. Reese. No. 1,146,279; July 13; Gaz. vol. 216; p. 476.
- Mail delivering and catching device. A. W. Muth. No. 1,153,102; Sept. 7; Gaz. vol. 218; p. 261.
- Mail-delivering apparatus. W. J. Griffiths, Jr. No. 1,157,981; Oct. 26; Gaz. vol. 219; p. 1047.
- Mail-delivering device. S. R. Herring. No. 1,140,267; May 18; Gaz. vol. 214; p. 968.
- Mail-delivering device. M. K. Walker. No. 1,158,342; Oct. 26; Gaz. vol. 219; p. 1172.
- Mail-delivery apparatus. J. Zola. No. 1,142,475; June 8; Gaz. vol. 215; p. 526.
- Mail delivery, Rural. W. D. Lizabrach. No. 1,127,040; Feb. 2; Gaz. vol. 211; p. 134.
- Mail-delivery signaling apparatus, Rural. C. F. Collier. No. 1,131,211; Mar. 9; Gaz. vol. 212; p. 510.
- Mail-delivery system, Rural. I. B. Clayton and N. Moore. No. 1,133,100; Mar. 23; Gaz. vol. 212; p. 1273.
- Mail device, Railway. W. M. Corthell. No. 1,123,692; Jan. 5; Gaz. vol. 210; p. 168.
- Mail-exchange system, Automatic. A. Hupp. No. 1,163,928; Dec. 14; Gaz. vol. 221; p. 464.
- Mail-handling apparatus. G. E. Kerns. No. 1,161,869; Nov. 30; Gaz. vol. 220; p. 1395.
- Mail-handling apparatus, Railway. J. D. Hedrick. No. 1,126,210; Jan. 26; Gaz. vol. 210; p. 1178.
- Mail-marking machine. G. H. Graham. No. 1,128,774; Feb. 16; Gaz. vol. 211; p. 825.
- Mail-marking machine. F. C. Ielfield. No. 1,136,960; Apr. 27; Gaz. vol. 213; p. 1138.
- Mail-marking machine. T. G. Stoddard. No. 1,152,347; Aug. 31; Gaz. vol. 217; p. 1621.
- Mail-matter and other packages, Fastening for. J. Sommers and M. A. Gibson. No. 1,125,755; Jan. 19; Gaz. vol. 210; p. 982.
- Mail-matter-sealing machine. L. J. Hall. No. 1,132,930; Mar. 23; Gaz. vol. 212; p. 1211.
- Mail-matter stamping and sealing machine. L. J. Hall. No. 1,132,929; Mar. 23; Gaz. vol. 212; p. 1211.
- Mail-matter, Stand for sorting. E. Gargam, R.-B. Gouget de Casteras, and N.-J.-M.-L. Jeanjean. No. 1,126,977; Feb. 2; Gaz. vol. 211; p. 109.
- Mail or the like, Delivery apparatus for. W. E. Fisher. No. 1,130,721; Mar. 9; Gaz. vol. 212; p. 341.
- Mail or the like receptacle. L. Giclas. No. 1,128,678; Feb. 16; Gaz. vol. 211; p. 793.
- Mail packer and carrier. M. F. Crafton. No. 1,131,474; Mar. 9; Gaz. vol. 212; p. 600.
- Mail-pouch-locking appliance, Automatic. C. L. Wright. M. L. Smart, and C. M. Hopper. No. 1,162,121; Nov. 30; Gaz. vol. 220; p. 1485.
- Mail receiving and delivering apparatus. J. A. Chambers. No. 1,150,340; Aug. 17; Gaz. vol. 217; p. 827.
- Mail-receptacle. J. Sutkay. No. 1,140,205; May 18; Gaz. vol. 214; p. 947.
- Mail-sacks, Parcel-post protector for. H. Hazelton. No. 1,139,281; May 11; Gaz. vol. 214; p. 585.
- Mail-station device. J. Gibson. No. 1,165,242; Dec. 21; Gaz. vol. 221; p. 963.
- Mail-transferring device. G. W. Van Nostrand. No. 1,150,909; Aug. 24; Gaz. vol. 217; p. 1031.
- Mail-transporting apparatus. R. H. Wilson. No. 1,162,274; Nov. 30; Gaz. vol. 220; p. 1538.
- Mailing-box. W. J. Hall. No. 1,158,047; Oct. 26; Gaz. vol. 219; p. 1069.
- Mailing card, Coin-. W. H. Hart, Jr. No. 1,138,381; May 4; Gaz. vol. 214; p. 233.
- Mailing card, Coin-. W. H. Hart, Jr. No. 1,160,599; Nov. 16; Gaz. vol. 220; p. 855.
- Mailing card or folder. L. K. Gibbs. No. 1,164,805; Dec. 21; Gaz. vol. 221; p. 810.
- Mailing-case, Parcel-post. W. H. Hammond. No. 1,154,764; Sept. 28; Gaz. vol. 218; p. 941.
- Mailing device. J. M. Crull. No. 1,151,442; Aug. 24; Gaz. vol. 217; p. 1261.
- Mailing device. E. H. Roden. No. 1,148,927; Aug. 3; Gaz. vol. 217; p. 157.
- Mailing device. E. H. Roden. No. 1,148,930; Aug. 3; Gaz. vol. 217; p. 158.
- Mailing-folder. S. Willens. No. 1,130,782; Mar. 9; Gaz. vol. 212; p. 362.
- Mailing-machines, Elevator feed mechanism for. F. V. Moore. No. 1,140,839; May 25; Gaz. vol. 214; p. 1202.
- Mailing-machines, Folding and pasting mechanism for. F. V. Moore. No. 1,161,785; Nov. 23; Gaz. vol. 220; p. 1320.
- Mailing or other machines, Feed mechanism for. F. V. Moore. No. 1,155,503; Oct. 5; Gaz. vol. 219; p. 63.
- Mailing-package. M. M. Clark. No. 1,130,889; Mar. 9; Gaz. vol. 212; p. 399.
- Mailing packet and making the same, Culture-starter-. B. Barlow. No. 1,160,818; Nov. 16; Gaz. vol. 220; p. 935.
- Mailing-tube. J. Kleger. No. 1,153,627; Sept. 14; Gaz. vol. 218; p. 486.
- Mailing-tube. C. H. Quinlan. No. 1,146,206; July 13; Gaz. vol. 216; p. 451.
- Mainspring-releasing device. E. D. Harbour. No. 1,165,249; Dec. 21; Gaz. vol. 221; p. 966.
- Make-up table. A. Kaufman. No. 1,133,804; Mar. 30; Gaz. vol. 212; p. 1561.
- Mallet or plugger, Automatic. G. Croston. No. 1,164,475; Dec. 14; Gaz. vol. 221; p. 654.
- Malt extract and making same. I. Pollak. No. 1,153,641; Sept. 14; Gaz. vol. 218; p. 490.
- Malt Machine for turning green. M. Schuster. No. 1,143,918; June 22; Gaz. vol. 215; p. 1089.
- Malting apparatus. J. F. Dornfeld. No. 1,146,139; July 13; Gaz. vol. 216; p. 427.
- Mandrel. C. W. Saunders. No. 1,159,998; Nov. 9; Gaz. vol. 220; p. 592.
- Mandrel, Collapsible. E. M. Lockwood. No. 1,138,675; May 11; Gaz. vol. 214; p. 371.
- Mandrel for forming and vulcanizing rubber hose. S. J. Sihl. No. 1,130,030; Mar. 2; Gaz. vol. 212; p. 66.
- Mandrel-press. H. P. White. No. 1,156,261; Oct. 12; Gaz. vol. 219; p. 349.
- Mandrel stripping and cooling mechanism. F. E. Simpkins. No. 1,141,426; June 1; Gaz. vol. 215; p. 122.
- Mane-holder. D. Both. No. 1,131,903; Mar. 16; Gaz. vol. 212; p. 787.
- Manganese dioxide, Producing. F. D. Harper. No. 1,157,530; Oct. 19; Gaz. vol. 219; p. 827.
- Manger for animal pens and stalls. A. H. Neller. No. 1,124,058; Jan. 5; Gaz. vol. 210; p. 292.
- Mangle. C. F. Roberg and A. A. Malmberg. No. 1,128,049; Feb. 9; Gaz. vol. 211; p. 526.
- Mangle. W. A. Saunders. No. 1,135,725; Apr. 13; Gaz. vol. 213; p. 625.
- Mangle-roll. E. M. Saunders. No. 1,154,731; Sept. 28; Gaz. vol. 218; p. 929.
- Mangle safety mechanism. W. Bartholomew. No. 1,148,739; Aug. 3; Gaz. vol. 217; p. 93.
- Mangle stop mechanism. W. Bartholomew. No. 1,133,699; Mar. 30; Gaz. vol. 212; p. 1525.
- Mangle-table. G. L. Wild. No. 1,155,179; Sept. 28; Gaz. vol. 218; p. 1085.
- Manhole and cover for same. J. S. Wolf. No. 1,163,189; Dec. 7; Gaz. vol. 221; p. 160.
- Manhole-cover. G. Caldwell. No. 1,131,327; Mar. 9; Gaz. vol. 212; p. 550.
- Manhole-cover. C. K. Pickles. No. 1,131,078; Mar. 9; Gaz. vol. 212; p. 463.
- Manhole-cover fastening. W. S. Quigley. No. 1,165,804; Dec. 28; Gaz. vol. 221; p. 1198.
- Manhole, sewer, or other conduit and constructing the same. C. H. Frost. No. 1,144,469; June 29; Gaz. vol. 215; p. 1311.
- Manicuring instrument. A. H. Swank. No. 1,155,380; Oct. 5; Gaz. vol. 219; p. 19.
- Manicurist-table. W. F. Koken. No. 1,162,290; Nov. 30; Gaz. vol. 220; p. 1543.
- Manifold outlet. M. Coup. No. 1,156,888; Oct. 19; Gaz. vol. 219; p. 599.

Alphabetical list of inventions—Continued.

- Manifolding-machine. A. Krauth. No. 1,142,442; June 8; Gaz. vol. 215; p. 516.
- Manipulator. G. C. Farkell. No. 1,152,014; Aug. 31; Gaz. vol. 217; p. 1505.
- Manometer. R. F. Schneider. No. 1,134,352; Apr. 6; Gaz. vol. 213; p. 98.
- Mantle-blank-cutting machine. S. Cohn. No. 1,158,180; Oct. 26; Gaz. vol. 219; p. 1117.
- Mantle, Limp inverted. S. Gulbrandsen. No. 1,133,469; Mar. 30; Gaz. vol. 212; p. 1439.
- Mantle-shirring machine. S. Cohn. No. 1,164,783; Dec. 21; Gaz. vol. 221; p. 802.
- Mantle-threading machine. E. E. Flora and J. F. Murphy. No. 1,151,579; Aug. 31; Gaz. vol. 217; p. 1356.
- Mantles, Manufacturing of inverted. S. Cohn. No. 1,151,342; Aug. 24; Gaz. vol. 217; p. 1228.
- Manual motor. R. P. Baldwin. No. 1,150,410; Aug. 17; Gaz. vol. 217; p. 851.
- Manure-carrier. R. Hicks. No. 1,144,544; June 29; Gaz. vol. 215; p. 1336.
- Manure-loader. M. E. Anderson. No. 1,148,278; July 27; Gaz. vol. 216; p. 1225.
- Manure-loader. M. F. Kindred. No. 1,127,636; Feb. 9; Gaz. vol. 211; p. 378.
- Manure-loader. W. L. Wirsing. No. 1,165,642; Dec. 28; Gaz. vol. 221; p. 1142.
- Manure loader and spreader, Combined. W. J. Koenig. No. 1,125,122; Jan. 19; Gaz. vol. 210; p. 754.
- Manure-loading apparatus. W. Murphy. No. 1,142,197; June 8; Gaz. vol. 215; p. 427.
- Manure, Producing. L. Kern. No. 1,145,370; July 6; Gaz. vol. 216; p. 137.
- Manure-spreader. W. E. Binkley. No. 1,123,834; Jan. 5; Gaz. vol. 210; p. 217.
- Manure-spreader. T. Brown. No. 1,126,698; Feb. 2; Gaz. vol. 211; p. 10.
- Manure-spreader. T. Brown. No. 1,139,481; May 18; Gaz. vol. 214; p. 693.
- Manure-spreader. T. Brown. No. 1,139,482; May 18; Gaz. vol. 214; p. 693.
- Manure-spreader. T. Brown. No. 1,139,483; May 18; Gaz. vol. 214; p. 693.
- Manure-spreader. W. J. Cook. No. 1,154,236; Sept. 21; Gaz. vol. 218; p. 730.
- Manure-spreader. J. Dain. No. 1,139,498; May 18; Gaz. vol. 214; p. 698.
- Manure-spreader. D. Garst. No. 1,140,371; May 25; Gaz. vol. 214; p. 1039.
- Manure-spreader. S. H. Garst. No. 1,146,152; July 13; Gaz. vol. 216; p. 432.
- Manure-spreader. P. Hanson. No. 1,148,314; July 27; Gaz. vol. 216; p. 1238.
- Manure-spreader. J. Swolau. No. 1,137,924; May 4; Gaz. vol. 214; p. 70.
- Manure-spreader. F. R. Todd. No. 1,128,734; Feb. 16; Gaz. vol. 211; p. 811.
- Manure-spreader attachment. W. A. Birkholz. No. 1,160,688; Nov. 16; Gaz. vol. 220; p. 890.
- Manures and fertilizers, Manufacture of phosphate compounds for. A. Dickson. No. 1,132,171; Mar. 16; Gaz. vol. 212; p. 885.
- Manuscripts, copies, and the like, Holding device for. C. G. K. Rosenberg. No. 1,153,878; Sept. 14; Gaz. vol. 218; p. 575.
- Map and table-top, Revolving. C. A. Miller. No. 1,141,070; May 25; Gaz. vol. 214; p. 1283.
- Map or chart. J. B. Plato. No. 1,147,749; July 27; Gaz. vol. 216; p. 1037.
- Maps or the like, Holder for. M. H. E. Beckley. No. 1,163,310; Dec. 7; Gaz. vol. 221; p. 201.
- Marble-dressing machine. J. S. Johnson. No. 1,126,023; Jan. 26; Gaz. vol. 210; p. 1108.
- Margarin, Manufacture of. K. Ersley. No. 1,147,626; July 20; Gaz. vol. 216; p. 968.
- Marine boiler with double circulation and steam-superheater. J. B. Prudhon. No. 1,126,078; Jan. 26; Gaz. vol. 210; p. 1130.
- Marine propulsion, Steam prime mover for. C. G. Curtis and R. L. Lovell. No. 1,150,250; Aug. 17; Gaz. vol. 217; p. 797.
- Marine protective coating. D. F. Comstock. No. 1,123,687; Jan. 5; Gaz. vol. 210; p. 167.
- Marine table. M. Ingeman and L. Martenson. No. 1,124,906; Jan. 12; Gaz. vol. 210; p. 643.
- Marker. C. Graham. No. 1,150,860; Aug. 24; Gaz. vol. 217; p. 1066.
- Marker, Adjustable. E. Cardell. No. 1,163,505; Dec. 7; Gaz. vol. 221; p. 269.
- Marker for agricultural purposes, Disk. H. J. Stockum. No. 1,126,118; Jan. 26; Gaz. vol. 210; p. 1144.
- Marker for planters, Land-. W. J. Waterman. No. 1,165,923; Dec. 28; Gaz. vol. 221; p. 1238.
- Marking-button for animals. J. Lindeberg. No. 1,159,593; Nov. 9; Gaz. vol. 220; p. 446.
- Marking-gage. J. J. Brewer. No. 1,166,322; Dec. 28; Gaz. vol. 221; p. 1383.
- Marking-gage and try-square. E. Winnier and J. See. No. 1,142,215; June 8; Gaz. vol. 215; p. 434.
- Marking-machine. F. A. Putnam and C. F. Robbins. No. 1,131,865; Mar. 16; Gaz. vol. 212; p. 774.
- Marking machine, Article-. W. E. Choate. No. 1,128,225; Feb. 9; Gaz. vol. 211; p. 587.
- Marking-pot. G. Remsnider. No. 1,150,063; Aug. 17; Gaz. vol. 217; p. 728.
- Marking with plastic material, Device for. M. A. Smith. No. 1,147,982; July 27; Gaz. vol. 216; p. 1120.
- Mash-mixing apparatus. J. Klein. No. 1,156,409; Oct. 12; Gaz. vol. 219; p. 403.
- Mask for divers. C. H. Conkle. No. 1,139,850; May 18; Gaz. vol. 214; p. 822.
- Mask, Respiratory. C. A. Furtaw. No. 1,127,612; Feb. 9; Gaz. vol. 211; p. 371.
- Mask, Tonsorial. B. H. Flynn. No. 1,145,133; July 6; Gaz. vol. 216; p. 56.
- Mason's line-holder. J. C. Harris. No. 1,124,310; Jan. 12; Gaz. vol. 210; p. 429.
- Masonry beam, Reinforced. W. P. Francis. No. 1,158,197; Oct. 26; Gaz. vol. 219; p. 1122.
- Mass set, Portable. G. C. M. Bierens. No. 1,141,306; June 1; Gaz. vol. 215; p. 78.
- Massage apparatus. F. and W. Shurtleff. No. 1,147,560; July 20; Gaz. vol. 216; p. 944.
- Massage devices, Pumping means for. G. E. Gray. No. 1,155,147; Sept. 28; Gaz. vol. 218; p. 1073.
- Massage implements, Sanitary device for. M. De Lesco. No. 1,155,341; Oct. 5; Gaz. vol. 219; p. 6.
- Massage instrument, Electrical. N. Wise. No. 1,123,637; Jan. 5; Gaz. vol. 210; p. 151.
- Massage-machine. G. R. Everson. No. 1,140,891; May 25; Gaz. vol. 214; p. 1222.
- Massage-machine. L. J. and E. W. Wahl. No. 1,149,099; Aug. 3; Gaz. vol. 217; p. 215.
- Massaging apparatus, Mechanical. D. Geraldine. No. 1,161,767; Nov. 23; Gaz. vol. 220; p. 1312.
- Massaging device. H. L. Hoard. No. 1,129,802; Feb. 23; Gaz. vol. 211; p. 1219.
- Massaging device. I. R. Wheeler. No. 1,153,409; Sept. 14; Gaz. vol. 218; p. 409.
- Massaging-machine. C. M. Bump. No. 1,134,181; Apr. 6; Gaz. vol. 213; p. 35.
- Mat; See—
 Door-mat.
 Floor-mat.
 Metallic mat.
 Oven-mat.
 Running-board mat.
 Table-mat.
- Mats, Making revetment-. A. Johnson. No. 1,166,050; Dec. 28; Gaz. vol. 221; p. 1282.
- Match. W. A. Fairburn. No. 1,150,857; Aug. 24; Gaz. vol. 217; p. 1065.
- Match and making same, Waterproof. F. V. Cruser. No. 1,127,410; Feb. 9; Gaz. vol. 211; p. 300.
- Match and making the same. C. L. Gabriel. No. 1,147,159; July 20; Gaz. vol. 216; p. 804.
- Match, Book-. L. E. Parker. No. 1,154,586; Sept. 21; Gaz. vol. 218; p. 852.
- Match-books, &c., Machine for assembling. J. C. Donnelly. No. 1,132,310; Mar. 16; Gaz. vol. 212; p. 937.
- Match-books, &c., Machine for assembling. F. Schafer. No. 1,132,285; Mar. 16; Gaz. vol. 212; p. 928.
- Match-books, &c., Machine for packing. J. C. Donnelly. No. 1,132,309; Mar. 16; Gaz. vol. 212; p. 937.
- Match-books, &c., Machine for packing. J. F. Hobart. No. 1,132,268; Mar. 16; Gaz. vol. 212; p. 921.
- Match-box. B. S. Coe. No. 1,158,118; Oct. 26; Gaz. vol. 219; p. 1095.
- Match-box. R. Dickson. No. 1,137,743; May 4; Gaz. vol. 214; p. 8.
- Match-box. G. W. Faile, Jr. No. 1,140,142; May 18; Gaz. vol. 214; p. 927.
- Match-box. L. C. Fraver and I. E. Williams. No. 1,143,113; June 15; Gaz. vol. 215; p. 787.
- Match-box. F. A. Fuller. No. 1,153,875; Sept. 14; Gaz. vol. 218; p. 574.
- Match-box. J. Hurtig and E. A. Ericsson. No. 1,137,624; Apr. 27; Gaz. vol. 213; p. 1375.
- Match-box. J. S. Lingner. No. 1,137,642; Apr. 27; Gaz. vol. 213; p. 1381.
- Match-box. P. L. Monroe. No. 1,157,951; Oct. 26; Gaz. vol. 219; p. 1036.
- Match-box. G. Rietveld. No. 1,165,908; Dec. 28; Gaz. vol. 221; p. 1233.
- Match-box, cigar-rest, and ash-tray, Combined. F. Hagen. No. 1,137,481; Apr. 27; Gaz. vol. 213; p. 1327.
- Match-box holder. E. V. Allen. No. 1,143,345; June 15; Gaz. vol. 215; p. 869.
- Match-box, Single-delivery. W. Pacheco. No. 1,135,133; Apr. 13; Gaz. vol. 213; p. 419.
- Match-boxing machine. C. W. Van Vleet. No. 1,165,349; Dec. 21; Gaz. vol. 221; p. 998.
- Match-boxing machine. J. H. Weaver and A. D. Welker. No. 1,147,058; July 20; Gaz. vol. 216; p. 770.
- Match-case and cigar-cutter, Combined. E. L. Anderson. No. 1,156,513; Oct. 12; Gaz. vol. 219; p. 439.
- Match container and lighter, Combined. J. Kroll. No. 1,124,146; Jan. 5; Gaz. vol. 210; p. 322.
- Match-head or similar composition. H. Staler. No. 1,144,076; June 22; Gaz. vol. 215; p. 1146.
- Match-head or similar composition. H. Staler. No. 1,144,077; June 22; Gaz. vol. 215; p. 1146.
- Match-heads, Composition for. W. C. Pierson. No. 1,138,146; May 4; Gaz. vol. 214; p. 150.
- Match-holder. J. R. Orwig. No. 1,143,992; June 22; Gaz. vol. 215; p. 1116.
- Match-igniting device. J. E. Neahr. No. 1,144,611; June 29; Gaz. vol. 215; p. 1358.

Alphabetical list of inventions—Continued.

- Match-igniting device. J. E. Neahr. No. 1,144,612; June 29; Gaz. vol. 215; p. 1359.
- Match-ignition composition. M. Shadid. No. 1,153,525; Sept. 14; Gaz. vol. 218; p. 451.
- Match-lighter. W. I. Hey and Z. L. Coffin. No. 1,132,342; Mar. 16; Gaz. vol. 212; p. 948.
- Match-lighter. C. P. Mock. No. 1,165,618; Dec. 28; Gaz. vol. 221; p. 1132.
- Match-lighter. G. D. Walton. No. 1,123,440; Jan. 5; Gaz. vol. 210; p. 84.
- Match lighter and extinguisher. R. F. Matheson. No. 1,155,755; Oct. 5; Gaz. vol. 219; p. 149.
- Match-machine. M. Koert. No. 1,145,200; July 6; Gaz. vol. 216; p. 79.
- Match-machine. M. Paridon. No. 1,165,536; Dec. 28; Gaz. vol. 221; p. 1102.
- Match-machine drive. A. D. Welker. No. 1,158,410; Oct. 26; Gaz. vol. 219; p. 1198.
- Match-machines, Splint-drying apparatus for. W. A. Fairburn. No. 1,127,421; Feb. 9; Gaz. vol. 211; p. 304.
- Match-machines, Splint-drying means for. J. C. Donnelly. No. 1,127,416; Feb. 9; Gaz. vol. 211; p. 302.
- Match-magazine for machines for filling boxes with matches. H. A. Gsell. No. 1,124,017; Jan. 5; Gaz. vol. 210; p. 278.
- Match-making machine. H. A. Gsell. No. 1,151,680; Aug. 31; Gaz. vol. 217; p. 1389.
- Match-packing machine. M. Paridon. No. 1,146,346; July 13; Gaz. vol. 216; p. 499.
- Match-safe. C. S. Ceglowski. No. 1,161,613; Nov. 23; Gaz. vol. 220; p. 1260.
- Match-safe. F. H. Rextrew. No. 1,125,174; Jan. 19; Gaz. vol. 210; p. 773.
- Match-safe. R. H. Tatlow, Jr. No. 1,139,919; May 18; Gaz. vol. 214; p. 847.
- Match-safe and ash-tray, Combined. A. H. Lehman. No. 1,162,622; Nov. 30; Gaz. vol. 220; p. 1653.
- Match-splints, Means for applying paraffin or the like to. H. A. Rudd. No. 1,127,524; Feb. 9; Gaz. vol. 211; p. 341.
- Match-stand and automatic electric waiter-signal, Illuminated. A. Martzolf. No. 1,149,933; Aug. 10; Gaz. vol. 217; p. 621.
- Match-stick-impregnating machine. E. J. Young and A. D. Welker. No. 1,129,032; Feb. 16; Gaz. vol. 211; p. 918.
- Match-testing apparatus. F. V. Crusier. No. 1,152,796; Sept. 7; Gaz. vol. 218; p. 152.
- Match-testing apparatus. F. V. Crusier. No. 1,152,797; Sept. 7; Gaz. vol. 218; p. 153.
- Match-testing apparatus. W. A. Fairburn. No. 1,127,418; Feb. 9; Gaz. vol. 211; p. 303.
- Matcher. W. S. Sherman. No. 1,145,040; July 6; Gaz. vol. 216; p. 23.
- Matches, Machine for making card-. C. A. Carlson. No. 1,132,302; Mar. 16; Gaz. vol. 212; p. 934.
- Matches, Manufacturing. W. A. Fairburn. No. 1,150,858; Aug. 24; Gaz. vol. 217; p. 1066.
- Material-moving apparatus. H. B. Sauerman. No. 1,159,803; Nov. 9; Gaz. vol. 220; p. 523.
- Materials, Treatment of. R. B. Price. No. 1,132,971; Mar. 23; Gaz. vol. 212; p. 1227.
- Mathematics, Practice exercise-card in. J. W. Studebaker. No. 1,157,599; Oct. 19; Gaz. vol. 219; p. 847.
- Matrices, Production of. J. W. Aylsworth. No. 1,144,338; June 22; Gaz. vol. 215; p. 1239.
- Matrices used for stereotype purposes, Apparatus for drying. C. Winkler. No. 1,133,208; Mar. 23; Gaz. vol. 212; p. 1311.
- Matrix-cleaner. E. L. Kokanour. No. 1,152,187; Aug. 31; Gaz. vol. 217; p. 1565.
- Matrix device. F. J. Bonnalle. No. 1,165,149; Dec. 21; Gaz. vol. 221; p. 931.
- Matrix gaging and sorting machine. F. H. Pierpont. No. 1,149,284; Aug. 10; Gaz. vol. 217; p. 387.
- Matrix-retainer. F. M. Dean. No. 1,152,711; Sept. 7; Gaz. vol. 218; p. 122.
- Matrix-roaster. H. A. W. Wood. No. 1,162,672; Nov. 30; Gaz. vol. 220; p. 1669.
- Matrix-setting and line-casting machine. J. Dorneth. No. 1,155,137; Sept. 28; Gaz. vol. 218; p. 1069.
- Matrix-setting and type-line-casting machine. A. Eichler. No. 1,143,370; June 15; Gaz. vol. 215; p. 878.
- Matte, Converter for treating. W. H. Howard. No. 1,153,921; Sept. 21; Gaz. vol. 218; p. 623.
- Mattress. R. Bradshaw. No. 1,144,888; June 29; Gaz. vol. 215; p. 1456.
- Mattress. J. L. Heffner. (Reissue.) No. 13,982; Sept. 21; Gaz. vol. 218; p. 855.
- Mattress. W. E. Joseph. No. 1,154,776; Sept. 28; Gaz. vol. 218; p. 945.
- Mattress. A. W. Kindel. No. 1,159,846; Nov. 9; Gaz. vol. 220; p. 539.
- Mattress. N. V. Knickmeyer. No. 1,140,043; May 18; Gaz. vol. 214; p. 891.
- Mattress. K. Kohn. No. 1,145,069; July 6; Gaz. vol. 216; p. 35.
- Mattress. G. E. Lackey. No. 1,153,120; Sept. 7; Gaz. vol. 218; p. 267.
- Mattress. D. Micon. No. 1,123,345; Jan. 5; Gaz. vol. 210; p. 51.
- Mattress. W. W. Nichols. No. 1,132,869; Mar. 23; Gaz. vol. 212; p. 1189.
- Mattress. J. E. Rilling. No. 1,153,644; Sept. 14; Gaz. vol. 218; p. 491.
- Mattress. M. Van Gelder. No. 1,130,946; Mar. 9; Gaz. vol. 212; p. 418.
- Mattress and cushion. C. B. Van Corst and N. E. Fulker-son. No. 1,138,264; May 4; Gaz. vol. 214; p. 189.
- Mattress and life-raft, Combined. C. H. Frye. No. 1,134,602; Apr. 6; Gaz. vol. 213; p. 189.
- Mattress fabric, Wire. W. A. Holt. No. 1,129,392; Feb. 23; Gaz. vol. 211; p. 1080.
- Mattress-filling, Antiseptic. A. Maggia. No. 1,150,688; Aug. 17; Gaz. vol. 217; p. 949.
- Mattress-frame. O. Gasau. No. 1,149,360; Aug. 10; Gaz. vol. 217; p. 415.
- Mattress-guard. H. Eckerson. No. 1,125,277; Jan. 19; Gaz. vol. 210; p. 812.
- Mattress-handle. S. J. Bennett. No. 1,162,551; Nov. 30; Gaz. vol. 220; p. 1632.
- Mattress-spring. R. G. Marquardt. No. 1,134,972; Apr. 6; Gaz. vol. 213; p. 517.
- Mattresses, Forming and stuffing compartment. I. J. Weinberg. No. 1,133,686; Mar. 30; Gaz. vol. 212; p. 1520.
- Mausoleum. W. S. Halladay and J. Schaefer. No. 1,132,088; Mar. 16; Gaz. vol. 212; p. 854.
- Mausoleum. D. M. Rothenberger. No. 1,153,956; Sept. 21; Gaz. vol. 218; p. 635.
- Mausoleum. D. M. Rothenberger. No. 1,156,039; Oct. 5; Gaz. vol. 219; p. 248.
- Mausoleum. T. C. Smith. No. 1,163,625; Dec. 7; Gaz. vol. 221; p. 312.
- Mausoleum-disinfecting device. W. A. Rice. No. 1,123,379; Jan. 5; Gaz. vol. 210; p. 63.
- Maximum-demand indicator. L. T. Robinson. No. 1,159,800; Nov. 9; Gaz. vol. 220; p. 522.
- Maximum-demand meter. C. I. Hall. No. 1,145,835; July 6; Gaz. vol. 216; p. 301.
- Mayonnaise-mixer. W. Landsberg. No. 1,144,215; June 22; Gaz. vol. 215; p. 1196.
- Measure and dispenser, Automatic liquid. T. Ide. No. 1,165,675; Dec. 28; Gaz. vol. 221; p. 1153.
- Measure, Lens-. W. Gowland. No. 1,136,419; Apr. 20; Gaz. vol. 213; p. 911.
- Measure, Rope-. W. L. Hobbie. No. 1,155,236; Sept. 28; Gaz. vol. 218; p. 1101.
- Measure, Tape-. D. H. Hodes. No. 1,164,347; Dec. 14; Gaz. vol. 221; p. 609.
- Measure, Tape-. J. H. Hoffmann. No. 1,145,244; July 6; Gaz. vol. 216; p. 95.
- Measurement of the flow of gas in conduits or pipes. H. M. Edmunds. No. 1,148,833; Aug. 3; Gaz. vol. 217; p. 126.
- Measurements, Instrument for taking Bertillon. C. T. Ludwig. No. 1,129,699; Feb. 23; Gaz. vol. 211; p. 1184.
- Measurer, Rotary weft-. G. Potstada. No. 1,164,959; Dec. 21; Gaz. vol. 221; p. 863.
- Measuring and computing heights and distances, Appliance for. R. R. Miller. No. 1,153,098; Sept. 7; Gaz. vol. 218; p. 260.
- Measuring and cutting fabrics, Device for. H. K. Grout. No. 1,133,133; Mar. 23; Gaz. vol. 212; p. 1285.
- Measuring and cutting machine, Wire. F. M. Rauscher and L. Rexroth, Jr. No. 1,162,879; Dec. 7; Gaz. vol. 221; p. 51.
- Measuring and delivering device, Fluid. E. and C. B. Irish. No. 1,165,503; Dec. 28; Gaz. vol. 221; p. 1093.
- Measuring and dispensing apparatus. W. W. Nichols. No. 1,129,002; Feb. 16; Gaz. vol. 211; p. 908.
- Measuring and filling apparatus. E. Pells. No. 1,157,896; Oct. 26; Gaz. vol. 219; p. 1017.
- Measuring and gaging implement. J. Ickenroth. No. 1,128,143; Feb. 9; Gaz. vol. 211; p. 559.
- Measuring and indicating blood-pressure, Apparatus for. C. J. Pilling. No. 1,153,251; Sept. 14; Gaz. vol. 218; p. 351.
- Measuring and leveling instrument. O. C. Richardson. No. 1,127,809; Feb. 9; Gaz. vol. 211; p. 443.
- Measuring and registering apparatus, Liquid. C. F. Brown. No. 1,146,232; July 13; Gaz. vol. 216; p. 460.
- Measuring and rolling wall-paper, Machine for. L. M. Snow. No. 1,134,924; Apr. 6; Gaz. vol. 213; p. 299.
- Measuring apparatus. B. Eitner. No. 1,154,620; Sept. 28; Gaz. vol. 218; p. 892.
- Measuring apparatus. G. H. Gibson. No. 1,162,475; Nov. 30; Gaz. vol. 220; p. 1606.
- Measuring apparatus, Electrical. O. A. Knopp. No. 1,141,642; June 1; Gaz. vol. 215; p. 197.
- Measuring apparatus, Electrical. M. E. Leeds. No. 1,132,591; Mar. 23; Gaz. vol. 212; p. 1086.
- Measuring apparatus for pulling-over machines, Tip-. J. Triem. No. 1,142,128; June 8; Gaz. vol. 215; p. 404.
- Measuring apparatus, Liquid-. C. F. Brown. No. 1,144,583; June 29; Gaz. vol. 215; p. 1349.
- Measuring apparatus, Liquid-. J. E. Lea. No. 1,145,376; July 6; Gaz. vol. 216; p. 139.
- Measuring apparatus, Liquid-. S. A. Mischansky and M. Pavolowski. No. 1,156,244; Oct. 12; Gaz. vol. 219; p. 343.
- Measuring appliance, Tailor's. B. Agnes. No. 1,148,135; July 27; Gaz. vol. 216; p. 1176.
- Measuring appliance, Tractive-force-. P. Daimler. No. 1,136,511; Apr. 20; Gaz. vol. 213; p. 944.

- Measuring capacity and power factor. P. Thomas. No. 1,166,159; Dec. 28; Gaz. vol. 221; p. 1324.
- Measuring, correcting, and trimming skirts and the like, Device for. H. M. Ford. No. 1,149,434; Aug. 10; Gaz. vol. 217; p. 441.
- Measuring device. W. A. Barrows. No. 1,139,831; May 18; Gaz. vol. 214; p. 816.
- Measuring device. R. F. Downey. No. 1,143,109; June 15; Gaz. vol. 215; p. 786.
- Measuring device. J. J. Flaherty. No. 1,154,108; Sept. 21; Gaz. vol. 218; p. 688.
- Measuring device. W. Giese. No. 1,143,531; June 15; Gaz. vol. 215; p. 932.
- Measuring device. V. T. Milward. No. 1,153,810; Sept. 14; Gaz. vol. 218; p. 549.
- Measuring device, Automatic. J. Temple. No. 1,160,787; Nov. 16; Gaz. vol. 220; p. 923.
- Measuring device, Distance-. C. E. Flanagan. No. 1,140,895; May 25; Gaz. vol. 214; p. 1224.
- Measuring device, Distance-. R. A. Wilson. No. 1,144,675; June 29; Gaz. vol. 215; p. 1381.
- Measuring device, Fluid-. J. F. Keller, W. A. Warman, and H. L. Parr. No. 1,143,631; June 22; Gaz. vol. 215; p. 902.
- Measuring device, Foot-. M. V. Rush. No. 1,137,233; Apr. 27; Gaz. vol. 213; p. 1238.
- Measuring device, Liquid-. R. Hall. No. 1,152,891; Sept. 7; Gaz. vol. 218; p. 188.
- Measuring device, Liquid-. R. S. Johnson. No. 1,137,861; May 4; Gaz. vol. 214; p. 48.
- Measuring device, Liquid-. J. A. Kepka. No. 1,152,952; Sept. 7; Gaz. vol. 218; p. 211.
- Measuring device, Liquid-. F. Schorik and F. F. Marshall. No. 1,128,060; Feb. 9; Gaz. vol. 211; p. 530.
- Measuring device, Timber-. G. W. Bartlett. No. 1,124,833; Jan. 12; Gaz. vol. 210; p. 618.
- Measuring device, Water-. C. F. Siegrist. No. 1,133,067; Mar. 23; Gaz. vol. 212; p. 1262.
- Measuring electrical current, Frequency-meter for. L. Cohen. No. 1,165,850; Dec. 28; Gaz. vol. 221; p. 1212.
- Measuring fabric in rolls, Device for. A. Fobare. No. 1,148,765; Aug. 3; Gaz. vol. 217; p. 102.
- Measuring-gage. G. F. Schilling. No. 1,149,469; Aug. 10; Gaz. vol. 217; p. 452.
- Measuring gage, Liquid-. D. W. Flint. No. 1,126,968; Feb. 2; Gaz. vol. 211; p. 106.
- Measuring granular or powdered materials, Apparatus for. J. E. Lea. No. 1,151,956; Aug. 31; Gaz. vol. 217; p. 1485.
- Measuring instrument. W. H. Bristol. No. 1,136,648; Apr. 20; Gaz. vol. 213; p. 991.
- Measuring instrument. J. H. Donovan and W. J. Forsyth. No. 1,130,072; Mar. 2; Gaz. vol. 212; p. 80.
- Measuring instrument. N. F. Foner. No. 1,128,673; Feb. 16; Gaz. vol. 211; p. 791.
- Measuring instrument. L. A. Hawthorne. No. 1,142,423; June 8; Gaz. vol. 215; p. 508.
- Measuring instrument. J. Heberling. No. 1,156,998; Oct. 19; Gaz. vol. 219; p. 638.
- Measuring instrument. H. Henry. No. 1,142,958; June 15; Gaz. vol. 215; p. 733.
- Measuring instrument. E. G. Jay, Jr. No. 1,150,600; Aug. 17; Gaz. vol. 217; p. 917.
- Measuring instrument. N. Joha. No. 1,142,436; June 8; Gaz. vol. 215; p. 513.
- Measuring instrument. W. C. MacKinnon. No. 1,160,630; Nov. 16; Gaz. vol. 220; p. 867.
- Measuring instrument. R. J. Messier. No. 1,129,705; Feb. 23; Gaz. vol. 211; p. 1186.
- Measuring instrument. F. E. Miller. No. 1,161,504; Nov. 23; Gaz. vol. 220; p. 1223.
- Measuring instrument. B. F. Sassaman. No. 1,135,208; Apr. 13; Gaz. vol. 213; p. 444.
- Measuring instrument. W. C. Yorlan. No. 1,162,276; Nov. 30; Gaz. vol. 220; p. 1539.
- Measuring instrument, Alternating-current. F. W. Roller. No. 1,126,286; Jan. 26; Gaz. vol. 210; p. 1204.
- Measuring instrument, Distance-. H. Jacob. No. 1,160,614; Nov. 16; Gaz. vol. 220; p. 861.
- Measuring instrument, Distance-. C. von Hofe. No. 1,147,990; July 27; Gaz. vol. 216; p. 1122.
- Measuring instrument, Electric. L. Logan. No. 1,142,593; June 8; Gaz. vol. 215; p. 566.
- Measuring instrument, Electrical. A. O. Benecke. No. 1,165,745; Dec. 28; Gaz. vol. 221; p. 1178.
- Measuring instrument, Electrical. I. W. Brögger. No. 1,141,523; June 1; Gaz. vol. 215; p. 156.
- Measuring instrument, Electrical. P. A. Campbell. No. 1,144,636; June 29; Gaz. vol. 215; p. 1367.
- Measuring instrument, Electrical. F. Conrad. No. 1,141,380; June 1; Gaz. vol. 215; p. 106.
- Measuring instrument, Electrical. J. L. Davis. No. 1,151,761; Aug. 31; Gaz. vol. 217; p. 1418.
- Measuring instrument, Electrical. A. L. R. Ellis. No. 1,154,979; Sept. 28; Gaz. vol. 218; p. 1013.
- Measuring instrument, Electrical. A. J. R. Fiego. No. 1,132,322; Mar. 16; Gaz. vol. 212; p. 941.
- Measuring instrument, Electrical. W. E. Porter. No. 1,155,095; Sept. 28; Gaz. vol. 218; p. 1055.
- Measuring instrument, Electrical. J. W. Record. No. 1,125,711; Jan. 19; Gaz. vol. 210; p. 967.
- Measuring instrument, Electrical. P. Thomas. No. 1,164,032; Dec. 14; Gaz. vol. 221; p. 500.
- Measuring instrument, Electrical. T. W. Varley. No. 1,132,890; Mar. 23; Gaz. vol. 212; p. 1196.
- Measuring instrument, Electrical. T. W. Varley. No. 1,140,925; May 25; Gaz. vol. 214; p. 1235.
- Measuring instrument, Electrical. A. P. Young. No. 1,164,246; Dec. 14; Gaz. vol. 221; p. 572.
- Measuring instrument, Electromagnetic. W. J. Davis. No. 1,123,855; Jan. 5; Gaz. vol. 210; p. 224.
- Measuring instrument, Hot-wire electric. O. Schumann. No. 1,129,126; Feb. 23; Gaz. vol. 211; p. 987.
- Measuring instrument, Minute-. F. Begusch. No. 1,143,165; June 15; Gaz. vol. 215; p. 805.
- Measuring instrument, Wire-cloth-. J. G. Allen. No. 1,123,649; Jan. 5; Gaz. vol. 210; p. 155.
- Measuring-line reel. C. S. Wright. No. 1,123,642; Jan. 5; Gaz. vol. 210; p. 152.
- Measuring liquids, Apparatus for. H. H. Sutro. No. 1,138,700; May 11; Gaz. vol. 214; p. 380.
- Measuring-machine. A. and E. Goodman and D. Cowen. No. 1,139,269; May 11; Gaz. vol. 214; p. 582.
- Measuring-machine. F. M. Hewson. No. 1,149,442; Aug. 10; Gaz. vol. 217; p. 444.
- Measuring machine, Carpet-. C. D. Colley. No. 1,162,752; Dec. 7; Gaz. vol. 221; p. 7.
- Measuring machine, Cloth-. E. W. Henning. No. 1,158,686; Nov. 2; Gaz. vol. 220; p. 97.
- Measuring machine, Cloth-. H. G. Steely. No. 1,147,458; July 20; Gaz. vol. 216; p. 910.
- Measuring-machine reel, Cloth-. H. G. Steely. No. 1,146,364; July 13; Gaz. vol. 216; p. 505.
- Measuring or controlling instrument. E. H. Bristol and W. E. Goodyear. No. 1,164,573; Dec. 14; Gaz. vol. 221; p. 687.
- Measuring or verifying the superelevation, gage, and inclination of the rails of railway-tracks, Instrument for. G. Lakhovsky. No. 1,136,427; Apr. 20; Gaz. vol. 213; p. 913.
- Measuring rolled material. J. G. Deitz. No. 1,160,051; Nov. 9; Gaz. vol. 220; p. 608.
- Measuring-stick. M. I. Zofness. No. 1,143,478; June 15; Gaz. vol. 215; p. 915.
- Measuring-tank. W. W. Rhodes. No. 1,124,329; Jan. 12; Gaz. vol. 210; p. 435.
- Measuring temperature and resistivity, Method of and means for. E. F. Northrup. No. 1,144,776; June 29; Gaz. vol. 215; p. 1417.
- Measuring the area of hides, Apparatus for. W. H. Schulze. No. 1,158,310; Oct. 26; Gaz. vol. 219; p. 1163.
- Measuring the inclination of bore-holes and making a photographic record thereof. H. M. Smitt. No. 1,124,068; Jan. 5; Gaz. vol. 210; p. 295.
- Measuring the surface of skins and other materials, Machine for. H. J. B. Grard. No. 1,166,359; Dec. 28; Gaz. vol. 221; p. 1396.
- Measuring the velocity of flow of fluids, Instrument for. H. Contzen. No. 1,128,949; Feb. 16; Gaz. vol. 211; p. 890.
- Measuring-tool. C. A. Hirth. No. 1,162,720; Nov. 30; Gaz. vol. 220; p. 1686.
- Meat and bone cutting machine. J. B. Foight and A. M. Newell. No. 1,161,039; Nov. 23; Gaz. vol. 220; p. 1057.
- Meat and food cutter. N. R. Streeter. No. 1,149,966; Aug. 10; Gaz. vol. 217; p. 633.
- Meat and other foodstuffs, Preservation of. O. Bocandé. No. 1,148,823; Aug. 3; Gaz. vol. 217; p. 122.
- Meat-case, Sanitary. J. H. Burke and O. A. Wilming. No. 1,129,635; Feb. 23; Gaz. vol. 211; p. 1165.
- Meat-chopper attachment. W. Finley. No. 1,158,472; Nov. 2; Gaz. vol. 220; p. 21.
- Meat clamp or holder. H. R. Goodfellow. No. 1,124,418; Jan. 12; Gaz. vol. 210; p. 468.
- Meat-clamp, Sanitary. W. J. Rice. No. 1,131,615; Mar. 9; Gaz. vol. 212; p. 649.
- Meat, Curing. C. B. Trescott. No. 1,134,299; Apr. 6; Gaz. vol. 213; p. 79.
- Meat-curing machine. M. F. Servatius. No. 1,126,579; Jan. 26; Gaz. vol. 210; p. 1313.
- Meat curing, spicing, and seasoning tool. W. S. Felker. No. 1,155,139; Sept. 28; Gaz. vol. 218; p. 1070.
- Meat-cutting machine. E. M. Benton. No. 1,130,248; Mar. 2; Gaz. vol. 212; p. 141.
- Meat-cutting machine. F. J. Bryan. No. 1,130,664; Mar. 2; Gaz. vol. 212; p. 288.
- Meat-guide. G. J. Sayer. No. 1,138,509; May 4; Gaz. vol. 214; p. 276.
- Meat-holder. E. F. Welz. No. 1,156,510; Oct. 12; Gaz. vol. 219; p. 438.
- Meat-holding device. H. C. Smith. No. 1,159,285; Nov. 2; Gaz. vol. 220; p. 304.
- Meat product and producing the same. A. A. Hoy. No. 1,129,868; Mar. 2; Gaz. vol. 212; p. 12.
- Meat products, Apparatus for smoking and curing. B. Schwenger. No. 1,133,888; Mar. 30; Gaz. vol. 212; p. 1591.
- Meat products, Preparation of. H. Watkins-Pitchford. No. 1,165,924; Dec. 28; Gaz. vol. 221; p. 1238.
- Meat-tenderer. J. P. Bergstrom. No. 1,125,940; Jan. 26; Gaz. vol. 210; p. 1078.

Alphabetical list of inventions—Continued.

- Meat-tenderer. G. P. Burris. No. 1,149,336; Aug. 10; Gaz. vol. 217; p. 407.
- Meat-tenderer. R. F. Chatillon. No. 1,161,845; Nov. 30; Gaz. vol. 220; p. 1387.
- Meat-tenderer. B. von Bültzingslöwen. No. 1,164,240; Dec. 14; Gaz. vol. 221; p. 570.
- Meats, Curing. E. E. Burkle. No. 1,124,851; Jan. 12; Gaz. vol. 210; p. 624.
- Mechanical juncture, Making a homogeneous. A. B. Herick. No. 1,142,428; June 8; Gaz. vol. 215; p. 510.
- Mechanical movement. E. U. Ames. No. 1,155,191; Sept. 28; Gaz. vol. 218; p. 1088.
- Mechanical movement. T. A. C. Both. No. 1,143,606; June 22; Gaz. vol. 215; p. 983.
- Mechanical movement. W. W. Brown. No. 1,127,398; Feb. 9; Gaz. vol. 211; p. 296.
- Mechanical movement. E. Chiarlo. No. 1,149,728; Aug. 10; Gaz. vol. 217; p. 547.
- Mechanical movement. F. De Minico. No. 1,145,233; July 6; Gaz. vol. 216; p. 91.
- Mechanical movement. R. G. Elliott. No. 1,162,464; Nov. 30; Gaz. vol. 220; p. 1602.
- Mechanical movement. A. Fay. No. 1,149,816; Aug. 10; Gaz. vol. 217; p. 579.
- Mechanical movement. A. J. R. Fiego. No. 1,157,933; Oct. 26; Gaz. vol. 219; p. 1029.
- Mechanical movement. C. E. Gee. No. 1,151,678; Aug. 31; Gaz. vol. 217; p. 1389.
- Mechanical movement. G. H. Gere. No. 1,127,752; Feb. 9; Gaz. vol. 211; p. 421.
- Mechanical movement. B. Granville. No. 1,141,626; June 1; Gaz. vol. 215; p. 191.
- Mechanical movement. E. Harter. No. 1,163,916; Dec. 14; Gaz. vol. 221; p. 459.
- Mechanical movement. E. N. Kiger. No. 1,136,911; Apr. 20; Gaz. vol. 213; p. 1085.
- Mechanical movement. J. E. Meglemre. No. 1,149,389; Aug. 10; Gaz. vol. 217; p. 425.
- Mechanical movement. A. E. Miller. No. 1,131,851; Mar. 16; Gaz. vol. 212; p. 769.
- Mechanical movement. C. A. Milne. No. 1,127,065; Feb. 2; Gaz. vol. 211; p. 141.
- Mechanical movement. R. E. Naumburg. No. 1,154,198; Sept. 21; Gaz. vol. 218; p. 717.
- Mechanical movement. W. I. Phifer. No. 1,134,155; Apr. 6; Gaz. vol. 213; p. 25.
- Mechanical movement. L. E. Plamondon. No. 1,159,601; Nov. 9; Gaz. vol. 220; p. 449.
- Mechanical movement. G. B. Reischbach. No. 1,126,084; Jan. 26; Gaz. vol. 210; p. 1133.
- Mechanical movement. F. H. Richards. No. 1,134,961; Apr. 6; Gaz. vol. 213; p. 313.
- Mechanical movement. E. Schoonmaker. No. 1,123,396; Jan. 5; Gaz. vol. 210; p. 68.
- Mechanical movement. A. G. Schroeder. No. 1,147,896; July 27; Gaz. vol. 216; p. 1089.
- Mechanical movement. H. M. Stewart. No. 1,145,445; July 6; Gaz. vol. 216; p. 164.
- Mechanical movement. J. Stine. No. 1,160,009; Nov. 9; Gaz. vol. 220; p. 595.
- Mechanical movement. S. Sylvester. No. 1,149,968; Aug. 10; Gaz. vol. 217; p. 634.
- Mechanical movement. O. P. Underwood. No. 1,139,450; May 11; Gaz. vol. 214; p. 646.
- Mechanical movement. S. T. White. No. 1,165,050; Dec. 21; Gaz. vol. 221; p. 895.
- Mechanical movement. J. H. Young. No. 1,138,715; May 11; Gaz. vol. 214; p. 386.
- Mechanical movement and electric-light socket. T. A. C. Both. (Reissue.) No. 13,990; Oct. 5; Gaz. vol. 219; p. 250.
- Mechanical movement, Intermittent. A. Mehlfelder. No. 1,160,928; Nov. 16; Gaz. vol. 220; p. 972.
- Mechanotherapy apparatus. S. J. Albert. No. 1,166,304; Dec. 28; Gaz. vol. 221; p. 1377.
- Medical appliance. N. T. Fogg. No. 1,137,393; Apr. 27; Gaz. vol. 213; p. 1297.
- Medical appliance. M. M. Sweet. No. 1,155,527; Oct. 5; Gaz. vol. 219; p. 71.
- Medical instruments, Device for sterilizing. W. Boehm. No. 1,129,271; Feb. 23; Gaz. vol. 211; p. 1037.
- Medical treatment, Apparatus for administering. F. A. Hawley. No. 1,142,422; June 8; Gaz. vol. 215; p. 508.
- Medicament holding and applying device. J. M. J. Robert. No. 1,146,522; July 13; Gaz. vol. 216; p. 564.
- Medicinal preparation for human use. H. Belart. No. 1,129,270; Feb. 23; Gaz. vol. 211; p. 1037.
- Medicine-box. J. Herboldt. No. 1,138,562; May 4; Gaz. vol. 214; p. 293.
- Medicine-dropper. W. Hamer, Sr. No. 1,160,883; Nov. 16; Gaz. vol. 220; p. 956.
- Medicine-dropper. F. C. La Grange. No. 1,155,584; Oct. 5; Gaz. vol. 219; p. 90.
- Megaphone. F. H. Tomlin. No. 1,158,871; Nov. 2; Gaz. vol. 220; p. 162.
- Melted material in a reservoir, Device for maintaining a constant supply of. A. A. Froeblich. No. 1,138,743; May 11; Gaz. vol. 214; p. 396.
- Melting and spraying fusible substances. F. Herkenrath. No. 1,157,984; Oct. 26; Gaz. vol. 219; p. 1048.
- Melting and spraying fusible substances, Apparatus for. F. Herkenrath. No. 1,151,586; Aug. 31; Gaz. vol. 217; p. 1358.
- Melting-cup. G. E. Lee. No. 1,156,236; Oct. 12; Gaz. vol. 219; p. 340.
- Melting-furnace. W. N. Best. No. 1,137,378; Apr. 27; Gaz. vol. 213; p. 1292.
- Melting-furnace. I. Hall. No. 1,161,047; Nov. 23; Gaz. vol. 220; p. 1060.
- Melting furnace, Metal-. E. Bosshardt. No. 1,164,983; Dec. 21; Gaz. vol. 221; p. 872.
- Melting furnace, Metal-. O. J. Warman. No. 1,158,875; Nov. 2; Gaz. vol. 220; p. 164.
- Melting furnace or retort, Metal-. M. Goldberger. No. 1,125,090; Jan. 19; Gaz. vol. 210; p. 743.
- Melting-pot regulator. J. E. Lowden. No. 1,156,239; Oct. 12; Gaz. vol. 219; p. 342.
- Memorandum device. H. L. Snyder. No. 1,138,325; May 4; Gaz. vol. 214; p. 213.
- Memorandum device. F. L. Vernon. No. 1,136,186; Apr. 20; Gaz. vol. 213; p. 826.
- Memorandum-ring. M. C. Meyer. No. 1,130,917; Mar. 9; Gaz. vol. 212; p. 409.
- Menthyl-salicylic methyl ester, Making. G. Blieberger. No. 1,133,832; Mar. 30; Gaz. vol. 212; p. 1571.
- Menu-card holder. J. J. Corcoran. No. 1,144,173; June 22; Gaz. vol. 215; p. 1182.
- Mercerizing cotton piece goods and the like, Apparatus for. W. T. and L. J. Craven, C. H. Young, and F. H. and W. S. Cliffe. No. 1,165,570; Dec. 28; Gaz. vol. 221; p. 1114.
- Merchandise-holder. H. E. Ink. No. 1,159,943; Nov. 9; Gaz. vol. 220; p. 574.
- Mercury-loader. E. F. Lloyd. No. 1,132,593; Mar. 23; Gaz. vol. 212; p. 1087.
- Mercury-vapor apparatus. P. H. Thomas. No. 1,153,976; Sept. 21; Gaz. vol. 218; p. 641.
- Mercury-vapor apparatus. P. H. Thomas. No. 1,163,708; Dec. 14; Gaz. vol. 221; p. 386.
- Mercury-vapor apparatus, Starting device for. J. C. Pole. No. 1,157,804; Oct. 26; Gaz. vol. 219; p. 984.
- Mercury-vapor apparatus, Terminal for. F. G. Keyes. No. 1,158,928; Nov. 2; Gaz. vol. 220; p. 182.
- Mercury-vapor rectifier and the like. J. Jonas. No. 1,153,794; Sept. 14; Gaz. vol. 218; p. 544.
- Merry-go-round. F. Boecker. No. 1,143,352; June 15; Gaz. vol. 215; p. 872.
- Merry-go-round. C. L. Johnson. No. 1,127,361; Feb. 2; Gaz. vol. 211; p. 242.
- Merry-go-round. W. S. Tothill. No. 1,130,217; Mar. 2; Gaz. vol. 212; p. 131.
- Message-delivery system. O. W. Hart. No. 1,162,159; Nov. 30; Gaz. vol. 220; p. 1497.
- Message-register, Substation. J. A. Wotton. No. 1,162,007; Nov. 30; Gaz. vol. 220; p. 1444.
- Metal, Alloy-surfaced. J. F. Monnot. No. 1,156,169; Oct. 12; Gaz. vol. 219; p. 319.
- Metal and making the same, Bundling ribbed openwork. R. McCarty. No. 1,133,387; Mar. 30; Gaz. vol. 212; p. 1411.
- Metal and making the same, Compound. W. M. Page. No. 1,125,161; Jan. 19; Gaz. vol. 210; p. 769.
- Metal and producing same, Clad. W. M. Page and W. Tassin. No. 1,125,160; Jan. 19; Gaz. vol. 210; p. 768.
- Metal-armor circuit-connecting attachment. J. C. Stearns. No. 1,144,948; June 29; Gaz. vol. 215; p. 1474.
- Metal articles, Drawing, forging, or swaging hollow. W. Scrimgeour. No. 1,151,222; Aug. 24; Gaz. vol. 217; p. 1189.
- Metal articles, Production of compound. B. E. Eldred. No. 1,140,135; May 18; Gaz. vol. 214; p. 925.
- Metal bars in roller-mills, Apparatus for handling. D. T. and S. E. Spring and W. N. Bandl. No. 1,164,423; Dec. 14; Gaz. vol. 221; p. 635.
- Metal bars, Jointing. J. W. Ellis. No. 1,150,258; Aug. 17; Gaz. vol. 217; p. 799.
- Metal bars, plates, or shapes by means of an interlocked rolled joint, Connecting together. F. W. Skinner. No. 1,163,784; Dec. 14; Gaz. vol. 221; p. 413.
- Metal, Bending. O. J. Groehn. No. 1,158,484; Nov. 2; Gaz. vol. 220; p. 25.
- Metal-bending machine. R. Anderson. No. 1,124,251; Jan. 12; Gaz. vol. 210; p. 407.
- Metal-bending machine. E. W. Crellin. No. 1,156,062; Oct. 12; Gaz. vol. 219; p. 282.
- Metal-bending machine. J. M. Fedders. No. 1,148,670; Aug. 3; Gaz. vol. 217; p. 68.
- Metal-bending machine. J. M. Fedders. No. 1,149,356; Aug. 10; Gaz. vol. 217; p. 413.
- Metal-bending machine. O. J. Groehn. No. 1,156,899; Oct. 19; Gaz. vol. 219; p. 603.
- Metal-bending machine. C. A. Johnson. No. 1,161,864; Nov. 30; Gaz. vol. 220; p. 1393.
- Metal-bending machine. J. A. Pearl. No. 1,163,847; Dec. 14; Gaz. vol. 221; p. 436.
- Metal blanks, Machine for drawing. W. R. Webster. No. 1,132,531; Mar. 16; Gaz. vol. 212; p. 1017.
- Metal bodies, Making composition. W. D. Coolidge. No. 1,162,339; Nov. 30; Gaz. vol. 220; p. 1560.
- Metal bodies, Uniting. L. P. Creelius. No. 1,133,268; Mar. 30; Gaz. vol. 212; p. 1368.

- Metal body, Composite. W. D. Coolidge. No. 1,162,341; Nov. 30; Gaz. vol. 220; p. 1560.
- Metal body, Composite. W. D. Coolidge. No. 1,162,342; Nov. 30; Gaz. vol. 220; p. 1560.
- Metal box. A. L. Drake. No. 1,136,320; Apr. 20; Gaz. vol. 213; p. 874.
- Metal box. G. Klenk. No. 1,131,935; Mar. 16; Gaz. vol. 212; p. 799.
- Metal box. G. Klenk. No. 1,139,534; May 18; Gaz. vol. 214; p. 710.
- Metal box, Collapsible. L. Silberman. No. 1,163,696; Dec. 14; Gaz. vol. 221; p. 382.
- Metal bush. E. J. Renkenberger. No. 1,130,336; Mar. 2; Gaz. vol. 212; p. 172.
- Metal by welded rivets, Joining. A. F. Rietzel. No. 1,154,808; Sept. 28; Gaz. vol. 218; p. 955.
- Metal cinch rigging-ring. F. J. McMonies and J. J. and L. H. Hamley. No. 1,140,179; May 18; Gaz. vol. 214; p. 939.
- Metal-coating. J. C. Beneker. No. 1,144,523; June 29; Gaz. vol. 215; p. 1329.
- Metal coating upon metallic articles, Forming a protective. J. H. Maddy and B. H. Schubert. No. 1,161,944; Nov. 30; Gaz. vol. 220; p. 1423.
- Metal-coiling machine. C. H. Loutrel. No. 1,137,412; Apr. 27; Gaz. vol. 213; p. 1304.
- Metal compounds of thio-protein bodies, Preparation of soluble heavy. R. Uhl. No. 1,145,634; July 6; Gaz. vol. 216; p. 230.
- Metal corner, Interlockable. C. W. Morton. No. 1,162,798; Dec. 7; Gaz. vol. 221; p. 23.
- Metal covering, Protective. J. H. Scott. No. 1,123,401; Jan. 5; Gaz. vol. 210; p. 70.
- Metal cutting and welding apparatus. P. Eimann. No. 1,162,587; Nov. 30; Gaz. vol. 220; p. 1642.
- Metal-cutting apparatus. B. E. Bosler and W. L. McMeans. No. 1,164,593; Dec. 14; Gaz. vol. 221; p. 693.
- Metal-cutting apparatus. A. Messer. No. 1,139,048; May 11; Gaz. vol. 214; p. 606.
- Metal-cutting-machine cutting-disk. H. Heynau. No. 1,123,532; Jan. 5; Gaz. vol. 210; p. 115.
- Metal-cutting tool. H. K. Porter. No. 1,146,021; July 13; Gaz. vol. 216; p. 386.
- Metal-cutting tool. H. K. Porter. No. 1,146,951; July 20; Gaz. vol. 216; p. 732.
- Metal-cutting tool. H. K. Porter. No. 1,161,526; Nov. 23; Gaz. vol. 220; p. 1231.
- Metal drawing and stamping machine. H. B. Sherman. No. 1,136,558; Apr. 20; Gaz. vol. 213; p. 959.
- Metal-drawing machine. L. H. Brinkman. No. 1,143,101; June 15; Gaz. vol. 215; p. 783.
- Metal fabric. N. E. Clark. No. 1,128,659; Feb. 16; Gaz. vol. 211; p. 787.
- Metal fabric. N. E. Clark. No. 1,134,513; Apr. 6; Gaz. vol. 213; p. 157.
- Metal fabric. A. F. Rietzel. No. 1,147,100; July 20; Gaz. vol. 216; p. 783.
- Metal fabric. A. F. Rietzel. No. 1,162,402; Nov. 30; Gaz. vol. 220; p. 1580.
- Metal foil or leaf, Apparatus for the manufacture of imitation. K. E. Olson. No. 1,165,440; Dec. 28; Gaz. vol. 221; p. 1070.
- Metal-forming press. C. R. Bryson. No. 1,130,254; Mar. 2; Gaz. vol. 212; p. 143.
- Metal-founding. C. B. Carter. No. 1,130,066; Mar. 2; Gaz. vol. 212; p. 79.
- Metal-gathering beads, Cut-off means for. J. W. Robinson. No. 1,132,618; Mar. 23; Gaz. vol. 212; p. 1096.
- Metal, Indicating device for heat treatment of. H. B. Anderson. No. 1,124,234; Jan. 5; Gaz. vol. 210; p. 354.
- Metal joints, Finishing. J. L. Isaacs. No. 1,142,711; June 8; Gaz. vol. 215; p. 605.
- Metal letters, figures, designs, &c., Making adhesive. J. B. Grimes. No. 1,151,519; Aug. 24; Gaz. vol. 217; p. 1288.
- Metal, Machine for manufacturing expanded. C. J. W. Hayes. No. 1,125,526; Jan. 19; Gaz. vol. 210; p. 899.
- Metal manufacture, Expanded. N. E. Clark. No. 1,140,117; May 18; Gaz. vol. 214; p. 918.
- Metal members, Means for tempering. W. and J. Allabor. No. 1,163,303; Dec. 7; Gaz. vol. 221; p. 199.
- Metal, Method of and apparatus for generating holes in. H. E. Warren. No. 1,148,065; July 27; Gaz. vol. 216; p. 1149.
- Metal nurling and ornamenting tool. G. J. Schliker. No. 1,151,829; Aug. 31; Gaz. vol. 217; p. 1443.
- Metal pipe, Flexible. M. Pechstein. No. 1,145,434; July 6; Gaz. vol. 216; p. 160.
- Metal post. G. Hutchinson. No. 1,144,476; June 29; Gaz. vol. 215; p. 1314.
- Metal post and wire-fastening means. W. A. Anglemeyer. No. 1,129,621; Feb. 23; Gaz. vol. 211; p. 1161.
- Metal-pouring apparatus. R. H. Irons, W. Brown, and J. W. Sheperdson. No. 1,152,319; Aug. 31; Gaz. vol. 217; p. 1611.
- Metal, Producing blooms from scrap. W. C. Ely. No. 1,155,409; Oct. 5; Gaz. vol. 219; p. 29.
- Metal rods, Making hollow. F. Lloyd. No. 1,127,041; Feb. 2; Gaz. vol. 211; p. 134.
- Metal rods or bars, Cooling-bed for. J. R. George. No. 1,126,978; Feb. 2; Gaz. vol. 211; p. 110.
- Metal-rolling. J. C. Fox. No. 1,147,713; July 27; Gaz. vol. 216; p. 1025.
- Metal-sawing machine. E. O. Rothman. No. 1,144,867; June 29; Gaz. vol. 215; p. 1448.
- Metal scrap, Apparatus for recovering. G. E. Wisener. No. 1,152,867; Sept. 7; Gaz. vol. 218; p. 179.
- Metal-separating apparatus. C. O. Haskell. No. 1,148,771; Aug. 3; Gaz. vol. 217; p. 104.
- Metal-shaving machine. G. Dunham. No. 1,124,876; Jan. 12; Gaz. vol. 210; p. 633.
- Metal shavings or the like, Crushing or dividing. R. Philipp. No. 1,133,181; Mar. 23; Gaz. vol. 212; p. 1303.
- Metal-shearing machine. C. D. McDonald. No. 1,141,644; June 1; Gaz. vol. 215; p. 198.
- Metal-sheet-separating machine. W. R. Kinnear. No. 1,130,983; Mar. 9; Gaz. vol. 212; p. 431.
- Metal sheets or plates, Finishing. A. Ridd. No. 1,133,670; Mar. 30; Gaz. vol. 212; p. 1514.
- Metal sheets, Separating adhering. W. R. Kinnear. No. 1,126,482; Jan. 26; Gaz. vol. 210; p. 1274.
- Metal sprouts, Forming. W. J. Goegelein. No. 1,155,652; Oct. 5; Gaz. vol. 219; p. 114.
- Metal-strip-bending mechanism. C. Burnham. No. 1,154,970; Sept. 28; Gaz. vol. 218; p. 1010.
- Metal-strip-cleaning machine. S. Odabashian. No. 1,155,609; Oct. 5; Gaz. vol. 219; p. 99.
- Metal strips, Machine for winding edgewise and spacing. H. G. Sahlin. No. 1,151,721; Aug. 31; Gaz. vol. 217; p. 1403.
- Metal structures, Making expanded. H. E. White. No. 1,153,145; Sept. 7; Gaz. vol. 218; p. 274.
- Metal structures, Making ribbed expanded. H. E. White. No. 1,145,341; July 6; Gaz. vol. 216; p. 126.
- Metal structures, Making ribbed expanded. H. E. White. No. 1,145,342; July 6; Gaz. vol. 216; p. 127.
- Metal structures to prevent structural change in form, Treating. J. O. Heinze, Jr. No. 1,132,262; Mar. 16; Gaz. vol. 212; p. 919.
- Metal table. W. I. Block. No. 1,165,061; Dec. 21; Gaz. vol. 221; p. 898.
- Metal, Treating. E. C. Carter. No. 1,147,783; July 27; Gaz. vol. 216; p. 1048.
- Metal, Treatment of. T. Van Aller. No. 1,155,974; Oct. 5; Gaz. vol. 219; p. 225.
- Metal treatment, Refractory. G. Gmtr-Zehnder. No. 1,150,670; Aug. 17; Gaz. vol. 217; p. 941.
- Metal tubes, Method of and apparatus for forming. A. W. Gillespie. No. 1,124,221; Jan. 5; Gaz. vol. 210; p. 350.
- Metal tubes, rods, and the like, Reducing and surface-finishing. M. B. Lloyd. No. 1,129,835; Feb. 23; Gaz. vol. 211; p. 1230.
- Metal walls, Making flexible tubular corrugated. W. M. Fulton. No. 1,151,777; Aug. 31; Gaz. vol. 217; p. 1424.
- Metal wheel, Pressed. J. V. Woodworth. No. 1,129,617; Feb. 23; Gaz. vol. 211; p. 1160.
- Metal-working. H. Geisenhöner and E. F. Collins. No. 1,164,278; Dec. 14; Gaz. vol. 221; p. 584.
- Metal-working. N. E. Clark. No. 1,146,552; July 13; Gaz. vol. 216; p. 574.
- Metal-working. N. E. Clark. No. 1,146,553; July 13; Gaz. vol. 216; p. 574.
- Metal-working. N. E. Clark. No. 1,165,071; Dec. 21; Gaz. vol. 221; p. 902.
- Metal-working. G. E. Markley. No. 1,160,428; Nov. 16; Gaz. vol. 220; p. 794.
- Metal-working furnace. W. C. Ely. No. 1,155,410; Oct. 5; Gaz. vol. 219; p. 30.
- Metal-working machine. B. T. Browand. No. 1,148,007; July 27; Gaz. vol. 216; p. 1128.
- Metal-working machine. N. E. Clark. No. 1,146,554; July 13; Gaz. vol. 216; p. 574.
- Metal-working machine. G. O. Gridley. No. 1,166,126; Dec. 28; Gaz. vol. 221; p. 1311.
- Metal-working machine. L. F. and R. Schulze. No. 1,124,538; Jan. 12; Gaz. vol. 210; p. 512.
- Metal-working machine. L. F. and R. Schulze. No. 1,157,050; Oct. 19; Gaz. vol. 219; p. 658.
- Metal-working machine. G. T. Warwick. No. 1,163,961; Dec. 14; Gaz. vol. 221; p. 475.
- Metal-working machines, Blank-feeding mechanism for. J. A. Eden, Jr. No. 1,159,195; Nov. 2; Gaz. vol. 220; p. 274.
- Metal-working machines, Feeding device for. C. E. Warner, Sr., and A. J. Shetland. No. 1,127,129; Feb. 2; Gaz. vol. 211; p. 165.
- Metal-working switch. A. C. Johnson. No. 1,136,233; Apr. 20; Gaz. vol. 213; p. 843.
- Metal-working tool. E. R. Stoddard. No. 1,149,417; Aug. 10; Gaz. vol. 217; p. 435.
- Metals and other very hard and highly-resilient materials, Machining. C. A. C. D. de Fréminville. No. 1,156,892; Oct. 19; Gaz. vol. 219; p. 601.
- Metals, Apparatus for cutting, welding, and brazing. F. M. Bowers. No. 1,137,834; May 4; Gaz. vol. 214; p. 39.
- Metals, Apparatus for removing tarnish from. M. H. Keyt. No. 1,139,686; May 18; Gaz. vol. 214; p. 765.
- Metals by electrolysis, Recovering. L. Addicks. No. 1,138,921; May 11; Gaz. vol. 214; p. 459.
- Metals by fusion, Apparatus for severing. C. T. Lack. No. 1,141,560; June 1; Gaz. vol. 215; p. 169.

Alphabetical list of inventions—Continued.

- Metals by fusion, Electric deposition of. A. P. Strohmenger. (Reissue.) No. 1,39,70; Aug. 24; Gaz. vol. 217; p. 1311.
- Metals, Cutting. R. J. J. Mueller. No. 1,142,355; June 8; Gaz. vol. 215; p. 482.
- Metals from living bodies, Extracting. T. M. Clague. No. 1,123,683; Jan. 5; Gaz. vol. 210; p. 166.
- Metals from ores and the like, Recovery of. C. S. Vadder. No. 1,146,373; July 13; Gaz. vol. 216; p. 509.
- Metals from ores, Extracting. R. S. Towne and C. Robinson. No. 1,156,382; Oct. 12; Gaz. vol. 219; p. 392.
- Metals from solution, Precipitating and separating. R. S. Towne and C. Robinson. No. 1,156,383; Oct. 12; Gaz. vol. 219; p. 393.
- Metals from solutions, Electrolytic deposition of. N. V. Hybinette. No. 1,123,299; Jan. 5; Gaz. vol. 210; p. 33.
- Metals from solutions, Precipitant for recovering. G. H. Clevenger. No. 1,123,685; Jan. 5; Gaz. vol. 210; p. 166.
- Metals from solutions, Precipitating. L. D. Mills. No. 1,123,778; Jan. 5; Gaz. vol. 210; p. 199.
- Metals from their ores by carbon from solid fuel, Reduction of. W. D. Kilbourn. No. 1,148,782; Aug. 3; Gaz. vol. 217; p. 108.
- Metals from their ores, Composition and process for extracting. J. F. Williams. No. 1,145,954; July 13; Gaz. vol. 216; p. 361.
- Metals from their ores, Extraction of. H. M. Leslie. No. 1,158,514; Nov. 2; Gaz. vol. 220; p. 37.
- Metals, Making clad. W. M. Page. No. 1,125,158; Jan. 19; Gaz. vol. 210; p. 768.
- Metals, Method and apparatus for tempering. J. A. Dyblie. No. 1,151,675; Aug. 31; Gaz. vol. 217; p. 1388.
- Metals, Reducing. J. W. Beckman. No. 1,160,822; Nov. 16; Gaz. vol. 220; p. 936.
- Metals, Removing metallic coverings from other. H. Foersterling and H. Philipp. No. 1,160,590; Nov. 16; Gaz. vol. 220; p. 852.
- Metals, Removing tarnish from. M. H. Keyt. (Reissue.) No. 13,880; Feb. 16; Gaz. vol. 211; p. 927.
- Metals, &c., soluble in alkalies, Obtaining. G. Spitz. No. 1,129,431; Feb. 23; Gaz. vol. 211; p. 1093.
- Metals, Sulfidizing. H. B. Hovland. No. 1,159,942; Nov. 9; Gaz. vol. 220; p. 573.
- Metals, Uniting. W. D. Coolidge. No. 1,162,340; Nov. 30; Gaz. vol. 220; p. 1560.
- Metallic and non-metallic stock, Making composite. N. M. Stanley. No. 1,128,071; Feb. 9; Gaz. vol. 211; p. 534.
- Metallic articles, Manufacturing composite. J. Kirby. No. 1,126,484; Jan. 26; Gaz. vol. 210; p. 1274.
- Metallic coating and making same. M. U. Schoop. No. 1,128,058; Feb. 9; Gaz. vol. 211; p. 529.
- Metallic coatings, Plating or coating with. M. U. Schoop. No. 1,128,059; Feb. 9; Gaz. vol. 211; p. 530.
- Metallic compound. H. B. Coho. No. 1,138,845; May 11; Gaz. vol. 214; p. 435.
- Metallic fabric. W. B. Anderson. No. 1,156,127; Oct. 12; Gaz. vol. 219; p. 305.
- Metallic frame. E. T. Burrowes. No. 1,152,073; Aug. 31; Gaz. vol. 217; p. 1527.
- Metallic framework construction. C. Lacoste. No. 1,141,967; June 8; Gaz. vol. 215; p. 344.
- Metallic hoop. T. Johnson. No. 1,135,289; Apr. 13; Gaz. vol. 213; p. 471.
- Metallic leaf-applying device. S. H. Swallow. No. 1,136,497; Apr. 20; Gaz. vol. 213; p. 939.
- Metallic leaf, Decorative. J. A. C. Fichtmueller. No. 1,160,979; Nov. 16; Gaz. vol. 220; p. 991.
- Metallic leaf, Device for applying. A. S. Jaquith. No. 1,150,121; Aug. 17; Gaz. vol. 217; p. 749.
- Metallic leaf in rolls, Machine for packaging. L. M. Harwood. No. 1,126,006; Jan. 26; Gaz. vol. 210; p. 1102.
- Metallic leaf, Machine for cutting, packaging, and unwinding. L. M. Harwood. No. 1,155,727; Oct. 5; Gaz. vol. 219; p. 140.
- Metallic leaf, Mechanism for laying. A. Brooke. No. 1,162,448; Nov. 30; Gaz. vol. 220; p. 1597.
- Metallic mat. J. Natterer. No. 1,153,698; Sept. 14; Gaz. vol. 218; p. 510.
- Metallic plates, Apparatus for hardening very thin. G. Thuillier. No. 1,141,155; June 1; Gaz. vol. 215; p. 22.
- Metallic screen. C. H. McGee. No. 1,132,784; Mar. 23; Gaz. vol. 212; p. 1158.
- Metallic sheathing. H. S. Hale. No. 1,150,594; Aug. 17; Gaz. vol. 217; p. 916.
- Metallic-sheet joint. C. C. Fouts. No. 1,155,717; Oct. 5; Gaz. vol. 219; p. 136.
- Metallic structure and making the same. M. Lachman. No. 1,154,784; Sept. 28; Gaz. vol. 218; p. 947.
- Metallic surfaces from tarnishing, Liquid coating composition for preventing. C. S. Lounds. No. 1,146,336; July 13; Gaz. vol. 216; p. 496.
- Metallic tie. G. F. Brockway. No. 1,136,771; Apr. 20; Gaz. vol. 213; p. 1035.
- Metallic tie. G. A. Farrell. No. 1,139,855; May 18; Gaz. vol. 214; p. 824.
- Metallic tie. E. Lowrey. No. 1,144,908; June 29; Gaz. vol. 215; p. 1461.
- Metallic tie. B. J. Sheehe. No. 1,138,694; May 11; Gaz. vol. 214; p. 378.
- Metallic tie. E. E. Slick. No. 1,125,888; Jan. 19; Gaz. vol. 210; p. 1027.
- Metallic tie. J. F. Zimmerman. No. 1,131,588; Mar. 9; Gaz. vol. 212; p. 639.
- Metallic tie and rail-fastening therefor. F. A. Lester. No. 1,143,841; June 22; Gaz. vol. 215; p. 1063.
- Metallic union. W. M. Johnson. No. 1,133,245; Mar. 23; Gaz. vol. 212; p. 1323.
- Metallic wheel. G. A. Hattersley and G. A. Strub. No. 1,161,810; Nov. 23; Gaz. vol. 220; p. 1328.
- Metalliferous materials and recovering solvents used, Treating. H. D. Rankin. No. 1,150,787; Aug. 17; Gaz. vol. 217; p. 981.
- Metallurgical apparatus. H. B. Faber. No. 1,138,284; May 4; Gaz. vol. 214; p. 197.
- Metallurgical apparatus. C. J. Rice. No. 1,133,317; Mar. 30; Gaz. vol. 212; p. 1385.
- Metallurgical furnace. G. C. Carson. No. 1,149,495; Aug. 10; Gaz. vol. 217; p. 461.
- Metallurgical furnace. F. Meyer. No. 1,162,634; Nov. 30; Gaz. vol. 220; p. 1657.
- Metallurgical furnace. U. Wedge. No. 1,123,965; Jan. 5; Gaz. vol. 210; p. 260.
- Metallurgical furnace. U. Wedge. No. 1,123,966; Jan. 5; Gaz. vol. 210; p. 260.
- Metallurgical furnace. U. Wedge. No. 1,131,449; Mar. 9; Gaz. vol. 212; p. 592.
- Metallurgical furnace. U. Wedge. No. 1,133,828; Mar. 30; Gaz. vol. 212; p. 1570.
- Metallurgical furnace. U. Wedge. No. 1,133,829; Mar. 30; Gaz. vol. 212; p. 1570.
- Metallurgical furnace. U. Wedge. No. 1,137,559; Apr. 27; Gaz. vol. 213; p. 1354.
- Metallurgical furnace. U. Wedge. No. 1,162,532; Nov. 30; Gaz. vol. 220; p. 1626.
- Metallurgical furnace. U. Wedge. No. 1,162,533; Nov. 30; Gaz. vol. 220; p. 1626.
- Metallurgical furnace. U. Wedge. No. 1,162,534; Nov. 30; Gaz. vol. 220; p. 1626.
- Metallurgical implement. C. F. Jacobs. No. 1,146,573; July 13; Gaz. vol. 216; p. 581.
- Metallurgical process. L. F. Vogt. No. 1,129,029; Feb. 16; Gaz. vol. 211; p. 917.
- Metatarsal-support. W. W. Georges. No. 1,128,677; Feb. 16; Gaz. vol. 211; p. 793.
- Meter: See—
- | | |
|-------------------------|------------------------------|
| Air-meter. | Maximum-demand meter. |
| Current-meter. | Photographic exposure-meter. |
| Electric meter. | Pump-meter. |
| Electrical meter. | Rotary meter. |
| Electricity-meter. | Steam-meter. |
| Electrolytic meter. | Stuff-meter. |
| Flow-meter. | Temporal meter. |
| Fluid-meter. | Time-meter. |
| Fluid-indicating meter. | Time-cost meter. |
| Frequency-meter. | Torsion-meter. |
| Gas-meter. | Traction-meter. |
| Gasolene-meter. | Volt-ampere meter. |
| Induction-meter. | Water-meter. |
| Liquid-meter. | |
- Meter. W. L. Brown. No. 1,165,568; Dec. 28; Gaz. vol. 221; p. 1113.
- Meter. F. Lambert. No. 1,155,665; Oct. 5; Gaz. vol. 219; p. 118.
- Meter. F. Lambert. No. 1,155,666; Oct. 5; Gaz. vol. 219; p. 119.
- Meter. F. N. Lowry. No. 1,160,735; Nov. 16; Gaz. vol. 220; p. 906.
- Meter. A. B. Rypinski. No. 1,138,690; May 11; Gaz. vol. 214; p. 377.
- Meters and the like, Registering and recording device for. I. S. Dement. No. 1,165,578; Dec. 28; Gaz. vol. 221; p. 1117.
- Meter apparatus. J. Wilkinson. No. 1,159,817; Nov. 9; Gaz. vol. 220; p. 527.
- Meter attachment. F. B. Hayes. No. 1,146,704; July 13; Gaz. vol. 216; p. 625.
- Meter-box. H. H. Howell. No. 1,156,530; Oct. 12; Gaz. vol. 219; p. 445.
- Meter-box. H. M. Lofton. No. 1,133,386; Mar. 30; Gaz. vol. 212; p. 1410.
- Meter-case. F. W. Andrew. No. 1,158,768; Nov. 2; Gaz. vol. 220; p. 126.
- Meter construction and inlet regulation, Weir. D. R. Yarnall. No. 1,159,147; Nov. 2; Gaz. vol. 220; p. 254.
- Meter construction, Inlet-water regulator for weir. D. R. Yarnall. No. 1,159,150; Nov. 2; Gaz. vol. 220; p. 256.
- Meter control, Automatic. D. R. Yarnall. No. 1,143,344; June 15; Gaz. vol. 215; p. 868.
- Meter mechanism, Prepayment. W. L. Brown. No. 1,125,000; Jan. 12; Gaz. vol. 210; p. 676.
- Meter mechanism, Prepayment. W. L. Brown. No. 1,125,001; Jan. 12; Gaz. vol. 210; p. 677.
- Meter mechanism, Prepayment. W. L. Brown. No. 1,125,002; Jan. 12; Gaz. vol. 210; p. 677.
- Meter mechanism, Prepayment. A. M. Torrey. No. 1,124,975; Jan. 12; Gaz. vol. 210; p. 667.
- Meter-motor. O. E. Clark. No. 1,136,103; Apr. 20; Gaz. vol. 213; p. 796.
- Meter-protection device. E. A. Le Fever. No. 1,155,742; Oct. 5; Gaz. vol. 219; p. 145.
- Meter-receptacle. T. W. Felstead. No. 1,158,471; Nov. 2; Gaz. vol. 220; p. 21.

- Meter-separator. J. M. Burton. No. 1,130,792; Mar. 9; Gaz. vol. 212; p. 366.
- Meter-support. F. E. Chase. No. 1,134,257; Apr. 6; Gaz. vol. 213; p. 64.
- Meter system. J. A. Tilden. No. 1,154,896; Sept. 28; Gaz. vol. 218; p. 984.
- Meter-testing apparatus. L. R. Brooks. No. 1,128,405; Feb. 16; Gaz. vol. 211; p. 698.
- Meters, Calculating and printing apparatus for. N. Kolár. No. 1,145,596; July 6; Gaz. vol. 216; p. 216.
- Meters, Electric counter attachment for rotary. E. H. Messiter. No. 1,163,765; Dec. 14; Gaz. vol. 221; p. 407.
- Meters, Water control for gravity-. D. R. Yarnall. No. 1,159,149; Nov. 2; Gaz. vol. 220; p. 255.
- Metering mechanism, Variable-rate. G. H. Myrick. No. 1,158,709; Nov. 2; Gaz. vol. 220; p. 104.
- Metering purposes, Means for increasing the velocity of fluids for. A. R. Dodge. No. 1,145,234; July 6; Gaz. vol. 216; p. 91.
- Metering purposes, Means for increasing the velocity of fluids for. J. Wilkinson. No. 1,145,222; July 6; Gaz. vol. 216; p. 85.
- Metering system. P. M. Lincoln. No. 1,137,873; May 4; Gaz. vol. 214; p. 52.
- Methyl alcohol or other volatile substances from wood or other material containing cellulose, Producing. H. O. V. Bergström. No. 1,129,542; Feb. 23; Gaz. vol. 211; p. 1132.
- Metronome. C. A. Richmond. No. 1,157,042; Oct. 19; Gaz. vol. 219; p. 655.
- Mica-board, Apparatus for making. W. H. Sills. No. 1,133,325; Mar. 30; Gaz. vol. 212; p. 1388.
- Mica plates, Making. M. Meirowsky. No. 1,163,434; Dec. 7; Gaz. vol. 221; p. 245.
- Mica-splitting machine. E. Cooper. No. 1,155,298; Sept. 28; Gaz. vol. 218; p. 1119.
- Mica-towers, Bond-distributor for. H. R. Edgecomb. No. 1,126,161; Jan. 26; Gaz. vol. 210; p. 1159.
- Micrometer. Z. B. Coes. No. 1,132,704; Mar. 23; Gaz. vol. 212; p. 1128.
- Micrometer and scale, Combined. V. R. Helin. No. 1,153,785; Sept. 14; Gaz. vol. 218; p. 541.
- Micrometer, Capillary-tube-system. W. Rechniowski. No. 1,133,400; Mar. 30; Gaz. vol. 212; p. 1415.
- Micrometer-gage. L. C. Crescio. No. 1,124,867; Jan. 12; Gaz. vol. 210; p. 651.
- Micrometer-gage. A. C. May. No. 1,133,652; Mar. 30; Gaz. vol. 212; p. 1506.
- Micrometer-gage. M. E. Provost. No. 1,152,761; Sept. 7; Gaz. vol. 218; p. 139.
- Micrometer-gage. M. L. Rollier. No. 1,158,721; Nov. 2; Gaz. vol. 220; p. 108.
- Micrometer gage or stop device for lathes. W. Runge. No. 1,127,525; Feb. 9; Gaz. vol. 211; p. 342.
- Micrometer-indicator. A. Hanson. No. 1,162,289; Nov. 30; Gaz. vol. 220; p. 1542.
- Micrometer-protractor. A. A. Lederer. No. 1,147,105; July 20; Gaz. vol. 216; p. 785.
- Micrometer pump-valve gage. N. G. Pritchard. No. 1,144,061; June 22; Gaz. vol. 215; p. 1140.
- Microphone. H. E. Shreeve. No. 1,134,236; Apr. 6; Gaz. vol. 213; p. 56.
- Microphone. C. W. Underwood. No. 1,136,449; Apr. 20; Gaz. vol. 213; p. 921.
- Microphone. E. Weintraub and L. B. Miller. No. 1,156,509; Oct. 12; Gaz. vol. 219; p. 438.
- Microphone and like instrument. E. Belin. No. 1,143,487; June 15; Gaz. vol. 215; p. 918.
- Microphone repeater, Differential-. J. J. Comer. No. 1,137,188; Apr. 27; Gaz. vol. 213; p. 1221.
- Microscope. H. N. Ott. No. 1,129,502; Feb. 23; Gaz. vol. 211; p. 1118.
- Microscope. H. N. Ott and K. Leuchsenring. No. 1,149,401; Aug. 10; Gaz. vol. 217; p. 428.
- Microscope and telescope. A. Cornell. No. 1,128,761; Feb. 16; Gaz. vol. 211; p. 820.
- Microscope apparatus. A. Cornell and F. N. Davidson. No. 1,161,848; Nov. 30; Gaz. vol. 220; p. 1388.
- Microscope-cover-glass-centering device. N. A. Cobb. No. 1,139,165; May 11; Gaz. vol. 214; p. 546.
- Microscope fine adjustment. W. L. Patterson. No. 1,123,583; Jan. 5; Gaz. vol. 210; p. 132.
- Microscope-stages, Incubator for. T. Lidberg. No. 1,144,942; June 29; Gaz. vol. 215; p. 1472.
- Microscope warm stage. T. Lidberg. No. 1,144,941; June 29; Gaz. vol. 215; p. 1472.
- Microscopes, Circle-drawing attachment for. P. A. Sheaff. No. 1,129,742; Feb. 23; Gaz. vol. 211; p. 1198.
- Microscopy. N. S. Amstutz. No. 1,145,959; July 13; Gaz. vol. 216; p. 363.
- Middy-b blouse, rompers, and skirt, Combined. B. Goldberg. No. 1,138,468; May 4; Gaz. vol. 214; p. 263.
- Military shoulder-arm. T. C. Johnson. No. 1,165,976; Dec. 28; Gaz. vol. 221; p. 1257.
- Military uniform or the like. A. S. Cox. No. 1,139,642; May 18; Gaz. vol. 214; p. 749.
- Milk and cream container support. D. E. and E. V. Moore. No. 1,166,241; Dec. 28; Gaz. vol. 221; p. 1355.
- Milk and cream, Manufacturing churned products from. C. E. Gray. No. 1,155,055; Sept. 28; Gaz. vol. 218; p. 1039.
- Milk and in milk composition, Utilizing of skim-. J. M. W. Kitchen. No. 1,125,692; Jan. 19; Gaz. vol. 210; p. 960.
- Milk and milk compositions, Dehydrating. J. M. W. Kitchen. No. 1,127,778; Feb. 9; Gaz. vol. 211; p. 431.
- Milk and milk products, Preserving. A. J. Davis. No. 1,157,976; Oct. 26; Gaz. vol. 219; p. 1045.
- Milk and other fluids, Apparatus for treating. J. W. Davies. No. 1,139,646; May 18; Gaz. vol. 214; p. 750.
- Milk and other liquids, Apparatus for homogenizing. W. G. Schröder. No. 1,140,289; May 18; Gaz. vol. 214; p. 975.
- Milk-boiler. E. Benka. No. 1,149,156; Aug. 3; Gaz. vol. 217; p. 235.
- Milk-can. L. Sturges. No. 1,161,266; Nov. 23; Gaz. vol. 220; p. 1140.
- Milk-can and cover and fastening means for the same. E. W. Husted, L. Sorensen, and P. Murphy. No. 1,134,856; Apr. 6; Gaz. vol. 213; p. 278.
- Milk confection. L. A. Thompson. No. 1,127,114; Feb. 2; Gaz. vol. 211; p. 159.
- Milk-cooler. R. H. Burns and H. M. Mason. No. 1,148,351; July 27; Gaz. vol. 216; p. 1252.
- Milk-heater. J. G. Roy. No. 1,144,868; June 29; Gaz. vol. 215; p. 1448.
- Milk, Making soy-. L. J. Monohan and C. J. Pope. No. 1,165,199; Dec. 21; Gaz. vol. 221; p. 948.
- Milk, Manufacture of artificial. F. Gössel. No. 1,139,031; May 11; Gaz. vol. 214; p. 500.
- Milk or cream for testing, Apparatus for preparing. H. Ebe. No. 1,147,624; July 20; Gaz. vol. 216; p. 967.
- Milk or other fluids, Pasteurizing. S. M. Heulings. No. 1,150,269; Aug. 17; Gaz. vol. 217; p. 803.
- Milk, Pasteurizing. H. Feldmeier and C. P. Dalzell. No. 1,138,097; May 4; Gaz. vol. 214; p. 132.
- Milk, Pasteurizing. J. F. Lester. No. 1,141,566; June 1; Gaz. vol. 215; p. 171.
- Milk-powder, Producing soluble. G. D. Harris and J. S. Pollard. No. 1,138,380; May 4; Gaz. vol. 214; p. 233.
- Milk product and making the same. C. F. C. Knudsen. No. 1,160,086; Nov. 9; Gaz. vol. 220; p. 620.
- Milk product and producing same, Desiccated. A. A. Dunham. No. 1,126,734; Feb. 2; Gaz. vol. 211; p. 24.
- Milk product, Making a whole-. B. E. Dunn. No. 1,143,516; June 15; Gaz. vol. 215; p. 926.
- Milk-safe. C. Kaiser. No. 1,141,551; June 1; Gaz. vol. 215; p. 165.
- Milk-seat, Detachable. E. J. Nerenhausen. No. 1,131,540; Mar. 9; Gaz. vol. 212; p. 623.
- Milk sterilization, Apparatus for. A. Sheldermine. No. 1,147,553; July 20; Gaz. vol. 216; p. 943.
- Milk-sterilizing apparatus. J. Mérie. No. 1,129,704; Feb. 23; Gaz. vol. 211; p. 1186.
- Milk-sterilizing apparatus. M. von Recklinghausen. No. 1,165,921; Dec. 28; Gaz. vol. 221; p. 1237.
- Milk-tester. P. M. Phillips. No. 1,158,275; Oct. 26; Gaz. vol. 219; p. 1149.
- Milking apparatus. W. C. Brown. No. 1,149,246; Aug. 10; Gaz. vol. 217; p. 372.
- Milking apparatus. G. Sinclair. No. 1,139,589; May 18; Gaz. vol. 214; p. 730.
- Milking apparatus. G. Sinclair. No. 1,139,590; May 18; Gaz. vol. 214; p. 730.
- Milking apparatus. A. W. Zeratsky. No. 1,139,744; May 18; Gaz. vol. 214; p. 785.
- Milking device. A. Sabroe. No. 1,159,103; Nov. 2; Gaz. vol. 220; p. 240.
- Milking device, Cow-. E. G. Hayne. No. 1,146,252; July 13; Gaz. vol. 216; p. 467.
- Milking-machine. G. H. F. Berglund. No. 1,128,574; Feb. 16; Gaz. vol. 211; p. 757.
- Milking-machine. W. C. Brown. No. 1,163,808; Dec. 14; Gaz. vol. 221; p. 422.
- Milking-machine. E. Cameron. No. 1,142,488; June 8; Gaz. vol. 215; p. 531.
- Milking-machine. E. Cameron. No. 1,164,256; Dec. 14; Gaz. vol. 221; p. 575.
- Milking-machine. C. H. Davis and A. D. Cuff. No. 1,159,185; Nov. 2; Gaz. vol. 220; p. 270.
- Milking-machine. J. I. Friedrich. No. 1,141,536; June 1; Gaz. vol. 215; p. 160.
- Milking-machine. M. Leitch. No. 1,163,161; Dec. 7; Gaz. vol. 221; p. 149.
- Milking-machine. E. L. and R. M. Mills. No. 1,132,599; Mar. 23; Gaz. vol. 212; p. 1089.
- Milking-machine. C. S. Moore. No. 1,148,706; Aug. 3; Gaz. vol. 217; p. 80.
- Milking-machine. L. P. Patterson. No. 1,139,571; May 18; Gaz. vol. 214; p. 724.
- Milking-machine. B. P. and F. I. Remy. No. 1,140,066; May 18; Gaz. vol. 214; p. 900.
- Milking-machine. B. P. and F. I. Remy. No. 1,142,628; June 8; Gaz. vol. 215; p. 577.
- Milking-machine. A. Truchot. No. 1,132,639; Mar. 23; Gaz. vol. 212; p. 1104.
- Milking-machine. W. J. Uebler. No. 1,126,920; Feb. 2; Gaz. vol. 211; p. 90.
- Milking machine, Cow-. A. V. and R. L. Hinman. (Re-issue.) No. 13,876; Feb. 9; Gaz. vol. 211; p. 605.
- Milking machine, Cow-. A. V. Rackstraw. No. 1,144,380; June 29; Gaz. vol. 215; p. 1231.

Alphabetical list of inventions—Continued.

- Milking-machine, Pneumatic. O. Anderson. No. 1,162,844; Dec. 7; Gaz. vol. 221; p. 40.
- Milking-machine pulsator. A. W. Reid. No. 1,150,452; Aug. 17; Gaz. vol. 217; p. 865.
- Milking machinery. W. R. Cockburn. No. 1,155,131; Sept. 28; Gaz. vol. 218; p. 1068.
- Milking machinery, Pulsating means for use in. T. N. Fletcher. No. 1,162,594; Nov. 30; Gaz. vol. 220; p. 1645.
- Mill: See—
- | | | |
|-----------------|---------------|--------------------|
| Abrasive | amalgamating- | Hollow mill. |
| mill | | Paint-mill. |
| Alfalfa-mill. | | Plate-mill. |
| Angle-mill. | | Pulverizing-mill. |
| Attrition-mill. | | Roll-mill. |
| Ball-mill. | | Roller-mill. |
| Boring-mill. | | Rolling-mill. |
| Cane-mill. | | Sawmill. |
| Corn-mill. | | Stamp-mill. |
| Crushing-mill. | | Tube-mill. |
| Fanning-mill. | | Tube-rolling mill. |
| Grinding-mill. | | Universal mill. |
| Hammer-mill. | | Windmill. |
- Mill for treating ores and the like. A. V. Park. No. 1,139,064; May 11; Gaz. vol. 214; p. 511.
- Mill-roll. Hot. J. Loomis. No. 1,130,911; Mar. 9; Gaz. vol. 212; p. 407.
- Mill-roll lubricator. W. Rittberger. No. 1,150,885; Aug. 24; Gaz. vol. 217; p. 1073.
- Mill-scale, Treating. F. M. Becket. No. 1,127,162; Feb. 2; Gaz. vol. 211; p. 176.
- Mill-scale, Treating. F. M. Becket. No. 1,127,163; Feb. 2; Gaz. vol. 211; p. 176.
- Mill-tube. J. E. Miller. No. 1,162,502; Nov. 30; Gaz. vol. 220; p. 1615.
- Mills, crushers, shredders, and the like, Automatic feeder for. J. A. Pietsch. No. 1,131,414; Mar. 9; Gaz. vol. 212; p. 580.
- Mills, Feed mechanism for mixing. P. E. Welton. No. 1,134,172; Apr. 6; Gaz. vol. 213; p. 32.
- Mills, Feed mechanism for mixing. P. E. and H. A. Welton. No. 1,134,173; Apr. 6; Gaz. vol. 213; p. 32.
- Mills, Feed-regulator for. L. F. Little. No. 1,161,488; Nov. 23; Gaz. vol. 220; p. 1217.
- Mills, Hammer attachment for rotary. M. F. Williams. No. 1,147,351; July 20; Gaz. vol. 216; p. 870.
- Mills, Lining for pebble or ball. H. A. Hansen and J. M. Schmueser. No. 1,153,844; Sept. 14; Gaz. vol. 218; p. 563.
- Mills, Lining-plate for ball-. W. Brinton. No. 1,132,909; Mar. 23; Gaz. vol. 212; p. 1203.
- Mills, Screen-shoe for grist-. J. L. Smith. No. 1,147,195; July 20; Gaz. vol. 216; p. 816.
- Milling-cutter. C. A. Dies. No. 1,140,130; May 18; Gaz. vol. 214; p. 923.
- Milling-cutter. H. E. Eberhardt. No. 1,141,700; June 1; Gaz. vol. 215; p. 217.
- Milling-cutter. A. F. Thau. No. 1,150,555; Aug. 17; Gaz. vol. 217; p. 902.
- Milling-cutter, Rotary. O. G. Simmons. No. 1,126,107; Jan. 26; Gaz. vol. 210; p. 1140.
- Milling-machine. J. R. Johnson. No. 1,139,422; May 11; Gaz. vol. 214; p. 636.
- Milling-machine. J. R. Johnson. No. 1,143,584; June 15; Gaz. vol. 215; p. 951.
- Milling-machine. J. R. Johnson. No. 1,153,165; Sept. 7; Gaz. vol. 218; p. 281.
- Milling-machine. R. K. Le Blond and W. F. Groene. No. 1,152,030; Aug. 31; Gaz. vol. 217; p. 1512.
- Milling-machine. R. K. Le Blond and W. F. Groene. No. 1,152,647; Sept. 7; Gaz. vol. 218; p. 99.
- Milling-machine. A. T. Sink and G. A. Dudley. No. 1,137,917; May 4; Gaz. vol. 214; p. 67.
- Milling-machine. S. J. Todd and A. M. Humber. No. 1,138,515; May 4; Gaz. vol. 214; p. 278.
- Milling-machine. C. Wiemer. No. 1,144,015; June 22; Gaz. vol. 215; p. 1124.
- Milling-machine arm. J. Goetz. No. 1,153,618; Sept. 14; Gaz. vol. 218; p. 483.
- Milling-machine attachment. H. E. Van Ness. No. 1,138,429; May 4; Gaz. vol. 214; p. 250.
- Milling-machine blade. C. M. Hoover. No. 1,125,537; Jan. 19; Gaz. vol. 210; p. 902.
- Milling-machine feed mechanism. C. D. Oesterlein. No. 1,138,010; May 4; Gaz. vol. 214; p. 100.
- Milling-machine for milling pockets for switch-points in stock-rails, Portable. T. F. Hillard. No. 1,138,656; May 11; Gaz. vol. 214; p. 364.
- Milling-machine spindle-head. J. R. Johnson. No. 1,143,585; June 15; Gaz. vol. 215; p. 951.
- Milling-machine spindle-saddle. E. Feldmann. No. 1,143,373; June 15; Gaz. vol. 215; p. 879.
- Milling-machine, Universal. J. Becker. No. 1,139,475; May 18; Gaz. vol. 214; p. 690.
- Milling-machines, lathes, &c., Feed mechanism for. J. Edgar. No. 1,131,496; Mar. 9; Gaz. vol. 212; p. 608.
- Millstone-dress. W. Van Nostrand. No. 1,142,209; June 8; Gaz. vol. 215; p. 431.
- Millstone-dressing machine. J. Knight. No. 1,146,580; July 13; Gaz. vol. 216; p. 584.
- Mine-catcher. J. K. Kendrick and J. W. Halterman. No. 1,138,225; May 4; Gaz. vol. 214; p. 175.
- Mine-catcher. P. Zakit. No. 1,138,525; May 4; Gaz. vol. 214; p. 281.
- Mine-door, Electrically-operated. W. W. Murray and J. F. Dillon. No. 1,145,787; July 6; Gaz. vol. 216; p. 284.
- Mine-door, Manually-operated. N. K. Bowman. No. 1,155,703; Oct. 5; Gaz. vol. 219; p. 132.
- Mine-drill support. H. P. Corsa. No. 1,125,480; Jan. 19; Gaz. vol. 210; p. 882.
- Mine-drilling machines, Fastening device for boxes for. G. Griffith. No. 1,123,731; Jan. 5; Gaz. vol. 210; p. 182.
- Mine, Marine. B. Senger and R. Sauter. No. 1,154,272; Sept. 21; Gaz. vol. 218; p. 743.
- Mine or the like. S. G. Wigelson. No. 1,138,269; May 4; Gaz. vol. 214; p. 191.
- Mine-raising apparatus. J. C. Lobato. No. 1,148,103; July 27; Gaz. vol. 216; p. 1164.
- Mine, Submarine. J. A. Rey. No. 1,151,902; Aug. 31; Gaz. vol. 217; p. 1468.
- Mine, Submarine. E. Schneider. No. 1,136,052; Apr. 20; Gaz. vol. 213; p. 779.
- Mine, Submarine. E. Schneider. No. 1,153,830; Sept. 14; Gaz. vol. 218; p. 557.
- Mine, Submarine. H. Senffleben. No. 1,152,559; Sept. 7; Gaz. vol. 218; p. 66.
- Mine, Submarine. A. J. Van Stockum. No. 1,159,300; Nov. 2; Gaz. vol. 220; p. 310.
- Mine-supporting means, Submarine. D. Schane. No. 1,150,889; Aug. 24; Gaz. vol. 217; p. 1074.
- Mine-tailings, Slime-thickener for dewatering. W. E. Darrow. No. 1,156,276; Oct. 12; Gaz. vol. 219; p. 353.
- Mines, Firing apparatus for. G. E. Elia. No. 1,124,000; Jan. 5; Gaz. vol. 210; p. 271.
- Mines, Mooring apparatus for submarine. J. A. Rey. No. 1,151,903; Aug. 31; Gaz. vol. 217; p. 1468.
- Mines, Safety-anchor for submarine. G. E. Elia. No. 1,153,774; Sept. 14; Gaz. vol. 218; p. 537.
- Miner's drill. S. T. Skeen. No. 1,140,077; May 18; Gaz. vol. 214; p. 904.
- Mining apparatus. G. C. Wilthew. No. 1,164,900; Dec. 21; Gaz. vol. 221; p. 842.
- Mining coal and removing foul gases from mine-chambers, Pneumatic system of. E. C. Morgan. No. 1,131,852; Mar. 16; Gaz. vol. 212; p. 769.
- Mining-drill extension-frame. G. W. Morgan and L. Evans. No. 1,133,492; Mar. 30; Gaz. vol. 212; p. 1447.
- Mining implement. A. Kolenic, Jr. No. 1,137,637; Apr. 27; Gaz. vol. 213; p. 1380.
- Mining-machine. A. Ball. No. 1,149,110; Aug. 3; Gaz. vol. 217; p. 218.
- Mining-machine. C. E. Davis. No. 1,149,502; Aug. 10; Gaz. vol. 217; p. 464.
- Mining-machine. C. E. Davis. No. 1,149,503; Aug. 10; Gaz. vol. 217; p. 464.
- Mining-machine. H. B. Dierdorff. No. 1,162,142; Nov. 30; Gaz. vol. 220; p. 1492.
- Mining-machine. J. E. Flexner and E. O'Toole. No. 1,143,897; June 22; Gaz. vol. 215; p. 1082.
- Mining-machine. A. H. Gibson. No. 1,134,734; Apr. 6; Gaz. vol. 213; p. 238.
- Mining-machine. L. F. Hess. No. 1,143,599; June 15; Gaz. vol. 215; p. 957.
- Mining-machine. L. F. Hess. No. 1,147,724; July 27; Gaz. vol. 216; p. 1029.
- Mining-machine. H. A. Kuhn and W. W. Macfarren. No. 1,148,973; Aug. 3; Gaz. vol. 217; p. 173.
- Mining-machine. H. A. Kuhn and W. W. Macfarren. No. 1,148,974; Aug. 3; Gaz. vol. 217; p. 173.
- Mining-machine. H. A. Kuhn and W. W. Macfarren. No. 1,148,975; Aug. 3; Gaz. vol. 217; p. 174.
- Mining-machine. H. A. Kuhn and W. W. Macfarren. No. 1,148,976; Aug. 3; Gaz. vol. 217; p. 174.
- Mining-machine. N. D. Levin. No. 1,127,784; Feb. 9; Gaz. vol. 211; p. 433.
- Mining-machine. S. M. Maver. No. 1,124,159; Jan. 5; Gaz. vol. 210; p. 327.
- Mining-machine. E. R. Merrill. No. 1,127,663; Feb. 9; Gaz. vol. 211; p. 387.
- Mining-machine. E. O'Toole. No. 1,151,383; Aug. 24; Gaz. vol. 217; p. 1241.
- Mining-machine. C. O. Palmer. No. 1,149,215; Aug. 10; Gaz. vol. 217; p. 361.
- Mining-machine. L. Robinson. No. 1,124,528; Jan. 12; Gaz. vol. 210; p. 507.
- Mining-machine. J. Secrist. No. 1,160,660; Nov. 16; Gaz. vol. 220; p. 879.
- Mining-machine. F. L. Sessions. No. 1,132,800; Mar. 23; Gaz. vol. 212; p. 1164.
- Mining-machine. F. L. Sessions. No. 1,143,144; June 15; Gaz. vol. 215; p. 797.
- Mining-machine. W. F. Trotter. No. 1,127,697; Feb. 9; Gaz. vol. 211; p. 399.
- Mining-machine. W. F. Trotter. No. 1,127,698; Feb. 9; Gaz. vol. 211; p. 399.
- Mining-machine. W. F. Trotter. No. 1,127,699; Feb. 9; Gaz. vol. 211; p. 400.
- Mining-machine. W. F. Trotter. No. 1,127,700; Feb. 9; Gaz. vol. 211; p. 400.
- Mining-machine. W. F. Trotter. No. 1,127,701; Feb. 9; Gaz. vol. 211; p. 401.
- Mining-machine. B. Viviani. No. 1,154,459; Sept. 21; Gaz. vol. 218; p. 808.

Alphabetical list of inventions—Continued.

- Mining-machine and truck. N. D. Levin. No. 1,137,337; Apr. 27; Gaz. vol. 213; p. 1277.
- Mining machine and truck. E. R. Merrill. No. 1,142,348; June 8; Gaz. vol. 215; p. 480.
- Mining-machine bit-holder. N. D. Levin. No. 1,140,173; May 18; Gaz. vol. 214; p. 938.
- Mining machine, Coal-. C. H. Boardman. No. 1,130,250; Mar. 2; Gaz. vol. 212; p. 141.
- Mining machine, Coal-. C. C. Hansen. No. 1,154,922; Sept. 28; Gaz. vol. 218; p. 994.
- Mining machine, Coal-. J. S. Wallace. No. 1,159,302; Nov. 2; Gaz. vol. 220; p. 311.
- Mining-machine cutter-head. J. W. Stedelin and G. Klein. No. 1,164,424; Dec. 14; Gaz. vol. 221; p. 636.
- Mining machine, Placer-. C. R. Dennison. No. 1,166,192; Dec. 28; Gaz. vol. 221; p. 1335.
- Mining machinery. C. O. and J. F. Bemies. No. 1,127,395; Feb. 9; Gaz. vol. 211; p. 295.
- Mining sulfur. H. Frasch. No. 1,152,499; Sept. 7; Gaz. vol. 218; p. 42.
- Mineral-concentrator. C. O. Michaelsen. No. 1,126,818; Feb. 2; Gaz. vol. 211; p. 55.
- Mineral salts and organic constituents of kelps, Extraction of. A. G. Artz. No. 1,136,390; Apr. 20; Gaz. vol. 213; p. 900.
- Minerals and like materials, Apparatus for separating. F. A. M. Schiechel. No. 1,151,722; Aug. 31; Gaz. vol. 217; p. 1403.
- Minerals by flotation, Apparatus for concentrating. G. C. Stone. No. 1,156,041; Oct. 5; Gaz. vol. 219; p. 249.
- Minerals by flotation, Apparatus for separating. B. MacDonald. No. 1,134,690; Apr. 6; Gaz. vol. 213; p. 221.
- Minerals by flotation, Concentration of. A. R. Livingston. No. 1,147,633; July 20; Gaz. vol. 216; p. 970.
- Minerals by flotation, Separation of. L. G. Rowand. No. 1,159,713; Nov. 9; Gaz. vol. 220; p. 489.
- Minerals. Flotation of. R. F. Bacon. No. 1,140,865; May 25; Gaz. vol. 214; p. 1213.
- Minerals. Flotation of. R. F. Bacon. No. 1,140,866; May 25; Gaz. vol. 214; p. 1213.
- Minerals. Treating potassium-bearing. S. E. Melkman. No. 1,148,850; Aug. 3; Gaz. vol. 217; p. 131.
- Minnow, Artificial electric. A. Sampey. No. 1,158,278; Nov. 2; Gaz. vol. 220; p. 301.
- Mirror and receptacle for hats or caps. A. Levine and J. Rotstein. No. 1,124,042; Jan. 5; Gaz. vol. 210; p. 287.
- Mirror and shelf supporting frame. H. Kearns and W. D. Martin. No. 1,153,929; Sept. 21; Gaz. vol. 218; p. 626.
- Mirror, Automobile-. G. W. Mosher. No. 1,139,560; May 18; Gaz. vol. 214; p. 720.
- Mirror-bracket, Adjustable. A. Conning and V. Bourdon. No. 1,129,960; Mar. 2; Gaz. vol. 212; p. 43.
- Mirror-fastener. W. H. Cook. No. 1,138,846; May 11; Gaz. vol. 214; p. 435.
- Mirror, Illuminating-. W. B. Goddard. No. 1,138,552; May 4; Gaz. vol. 214; p. 290.
- Mirror-support. E. D. Moreau, Jr. No. 1,145,259; July 6; Gaz. vol. 216; p. 99.
- Mirrors and reading-glasses, Adjustable supporting-bracket for. R. E. Atkinson. No. 1,130,689; Mar. 2; Gaz. vol. 212; p. 297.
- Mirrors, Suction supporting device for. J. G. Knabe. No. 1,147,102; July 20; Gaz. vol. 216; p. 784.
- Miter-box. A. C. Brown. No. 1,123,235; Jan. 5; Gaz. vol. 210; p. 11.
- Miter-box. E. R. Foust. No. 1,147,496; July 20; Gaz. vol. 216; p. 923.
- Miter-box. J. A. Leland. No. 1,159,896; Nov. 9; Gaz. vol. 220; p. 376.
- Miter-box. J. Pelletier. No. 1,134,286; Apr. 6; Gaz. vol. 213; p. 74.
- Miter-box and calculator. P. E. Parsons. No. 1,128,718; Feb. 16; Gaz. vol. 211; p. 806.
- Miter-box, Folding. J. F. Grabowsky. No. 1,155,912; Oct. 5; Gaz. vol. 219; p. 205.
- Mitt, Polishing-. H. W. Hepner. No. 1,139,283; May 11; Gaz. vol. 214; p. 586.
- Mitt, Polishing-. J. E. Reddick. No. 1,141,580; June 1; Gaz. vol. 215; p. 176.
- Mixer. See—
- Amalgam-mixer. Gas-mixer.
- Beverage-mixer. Gas and air mixer.
- Bread-mixer. Gaseous-fuel mixer.
- Cement or mortar mixer. Mayonnaise-mixer.
- Concrete-mixer. Paint-mixer.
- Dough-mixer. Plaster-mixer.
- Feed-mixer. Steam and water mixer.
- Mixer. J. Frame. No. 1,155,907; Oct. 5; Gaz. vol. 219; p. 203.
- Mixer. W. J. Judd. No. 1,127,009; Feb. 2; Gaz. vol. 211; p. 122.
- Mixer. W. J. Judd. No. 1,129,102; Feb. 23; Gaz. vol. 211; p. 978.
- Mixer and disintegrator. C. T. Du Rell. No. 1,157,092; Oct. 19; Gaz. vol. 219; p. 672.
- Mixer and primer. B. B. Robley. No. 1,151,047; Aug. 24; Gaz. vol. 217; p. 1129.
- Mixers, Feed-regulator for. H. S. Scott. No. 1,124,338; Jan. 12; Gaz. vol. 210; p. 438.
- Mixing and kneading machine. R. Herbst. No. 1,138,654; May 11; Gaz. vol. 214; p. 364.
- Mixing and kneading machine for earthy and mineral materials. G. Ehrich. No. 1,155,712; Oct. 5; Gaz. vol. 219; p. 135.
- Mixing apparatus. T. Ahlborn. No. 1,127,150; Feb. 2; Gaz. vol. 211; p. 171.
- Mixing apparatus. R. Baggaley. No. 1,151,332; Aug. 24; Gaz. vol. 217; p. 1224.
- Mixing apparatus. H. G. Lakenan. No. 1,157,788; Oct. 26; Gaz. vol. 219; p. 978.
- Mixing apparatus. J. E. Marwedel. No. 1,166,139; Dec. 28; Gaz. vol. 221; p. 1316.
- Mixing apparatus. L. H. Sturtevant. No. 1,159,607; Nov. 9; Gaz. vol. 220; p. 451.
- Mixing-apparatus feeder. L. C. Hamel. No. 1,129,866; Mar. 2; Gaz. vol. 212; p. 12.
- Mixing device. F. A. Heath. No. 1,153,913; Sept. 21; Gaz. vol. 218; p. 620.
- Mixing device. F. A. Heath. No. 1,153,914; Sept. 21; Gaz. vol. 218; p. 621.
- Mixing device. F. A. Heath. No. 1,153,915; Sept. 21; Gaz. vol. 218; p. 621.
- Mixing device. T. B. Jorgensen. No. 1,125,337; Jan. 19; Gaz. vol. 210; p. 832.
- Mixing device. W. C. Kliber. No. 1,128,153; Feb. 9; Gaz. vol. 211; p. 563.
- Mixing-drum, Rotary. J. M. Callow. No. 1,124,854; Jan. 12; Gaz. vol. 210; p. 625.
- Mixing-machine. E. M. Carlin. No. 1,125,814; Jan. 19; Gaz. vol. 210; p. 1003.
- Mixing-machine. E. A. Clark. No. 1,158,178; Oct. 26; Gaz. vol. 219; p. 1116.
- Mixing-machine. F. B. Jacobson. No. 1,124,452; Jan. 12; Gaz. vol. 210; p. 481.
- Mixing-machine. E. A. Lahlière. No. 1,142,331; June 8; Gaz. vol. 215; p. 474.
- Mixing-machine. M. J. MacLennan. No. 1,140,385; May 25; Gaz. vol. 214; p. 1045.
- Mixing-machine. J. F. Prokop. No. 1,126,859; Feb. 2; Gaz. vol. 211; p. 70.
- Mixing-machine. R. Tiedtke. No. 1,139,085; May 11; Gaz. vol. 214; p. 518.
- Mixing-machine. T. L. Valerius. No. 1,160,217; Nov. 16; Gaz. vol. 220; p. 721.
- Mixing-machine. A. A. Warner. No. 1,137,037; Apr. 27; Gaz. vol. 213; p. 1167.
- Mixing-machine protector. W. M. Lindsay. No. 1,128,699; Feb. 16; Gaz. vol. 211; p. 800.
- Mixing-machines and the like, Controlling mechanism for. C. W. Brayton. No. 1,145,829; July 6; Gaz. vol. 216; p. 299.
- Mixing-machines, Hoisting mechanism for. J. Valibille. No. 1,145,279; July 6; Gaz. vol. 216; p. 106.
- Mixture-producing device and speed-governor. E. Podlešák. No. 1,155,094; Sept. 28; Gaz. vol. 218; p. 1055.
- Moccasin. W. S. Bass. No. 1,139,153; May 11; Gaz. vol. 214; p. 543.
- Moccasin. E. J. Rawlings. No. 1,128,902; Feb. 16; Gaz. vol. 211; p. 873.
- Moccasin. G. W. Robinson. No. 1,135,622; Apr. 13; Gaz. vol. 213; p. 589.
- Mohair fabric. W. S. Nutter. No. 1,131,259; Mar. 9; Gaz. vol. 212; p. 526.
- Molstener. M. J. Buchanan. No. 1,123,675; Jan. 5; Gaz. vol. 210; p. 163.
- Molstener for cigars and the like. G. H. Maas. No. 1,135,124; Apr. 13; Gaz. vol. 213; p. 416.
- Molstener, Tape-. S. G. Stuckey. No. 1,123,816; Jan. 5; Gaz. vol. 210; p. 211.
- Moistening and sealing device. R. F. Crittenden. No. 1,157,619; Oct. 19; Gaz. vol. 219; p. 854.
- Moistening apparatus. H. M. Beckwith. No. 1,124,586; Jan. 12; Gaz. vol. 210; p. 529.
- Moistening apparatus. E. Matheson. No. 1,165,268; Dec. 21; Gaz. vol. 221; p. 972.
- Moistening apparatus, Paper-. H. A. Craigie. No. 1,127,597; Feb. 9; Gaz. vol. 211; p. 367.
- Moistening device. G. W. R. and A. Hargreaves. No. 1,146,249; July 13; Gaz. vol. 216; p. 466.
- Moistening device. R. J. Wightman and W. B. Powell. No. 1,139,942; May 18; Gaz. vol. 214; p. 854.
- Moistening device. A. A. Wiley. No. 1,158,090; Oct. 26; Gaz. vol. 219; p. 1085.
- Moistening-machine. W. C. Tingle. No. 1,154,552; Sept. 21; Gaz. vol. 218; p. 839.
- Moistening machine, Strip-. H. W. Howard. No. 1,156,687; Oct. 12; Gaz. vol. 219; p. 500.
- Moistening machine, Tape-. C. L. Moon and I. Bell. No. 1,139,557; May 18; Gaz. vol. 214; p. 718.
- Moisture from peat or other substances, Removal of. T. Rigby. No. 1,124,954; Jan. 12; Gaz. vol. 210; p. 660.
- Moisture-gage. C. H. Kelly. No. 1,159,500; Nov. 9; Gaz. vol. 220; p. 412.
- Moisture of condensation upon glass or other protected surfaces, Composition for preventing the accumulation of. H. M. Pickering. No. 1,123,367; Jan. 5; Gaz. vol. 210; p. 59.
- Molasses and making same, Solidified. J. McAdams. No. 1,146,337; July 13; Gaz. vol. 216; p. 496.

Alphabetical list of inventions—Continued.

- Mold: *See—*
 Brick-mold.
 Bridge-mold.
 Block-mold.
 Building-mold.
 Butter-mold.
 Cement or concrete post mold.
 Column-mold.
 Column-top mold.
 Concrete-mold.
 Concrete-basement-wall mold.
 Concrete-block mold.
 Concrete-burial-vault mold.
 Concrete-column mold.
 Concrete-fence-post mold.
 Concrete-pipe mold.
 Concrete - pipe - forming mold.
 Concrete-pole mold.
 Concrete-post mold.
 Concrete-wall mold.
 Conduit-mold.
 Core-mold.
 Cornice-mold.
 Doll-mold.
 Fence-post mold.
 Fender-mold.
 Glass-mold.
 Glass-blowing mold.
 Glassware blow-mold.
 Heel-pad mold.
 Ingot-mold.
 Linotype-machine mold.
 Pipe-mold.
 Plastic-material mold.
 Post-mold.
 Sand mold.
 Sectional mold.
 Silo-mold.
 Silo-stave mold.
 Sole-mold.
 Starch-mold.
 Step-mold.
 Tank-mold.
 Tire-mold.
 Tire-casing mold.
 Tire-filler mold.
 Type-mold.
 Type-casting-machine mold.
 Typographical - machine mold.
 Valve-mold.
 Violin-mold.
- Mold. W. G. Barnes. No. 1,126,686; Feb. 2; Gaz. vol. 211; p. 6.
 Mold. W. Binning. No. 1,133,223; Mar. 23; Gaz. vol. 212; p. 1316.
 Mold. J. M. Bottcher. No. 1,123,473; Jan. 5; Gaz. vol. 210; p. 95.
 Mold. W. N. Britton. No. 1,133,359; Mar. 30; Gaz. vol. 212; p. 1400.
 Mold. H. M. Brookfield and S. Olsen. No. 1,144,527; June 29; Gaz. vol. 215; p. 1330.
 Mold. J. C. Davis. No. 1,161,034; Nov. 23; Gaz. vol. 220; p. 1055.
 Mold. F. J. Friese and J. E. Gilbert. No. 1,163,135; Dec. 7; Gaz. vol. 221; p. 139.
 Mold. H. E. Hamilton. No. 1,132,579; Mar. 23; Gaz. vol. 212; p. 1081.
 Mold. G. W. Johnson. No. 1,128,150; Feb. 9; Gaz. vol. 211; p. 562.
 Mold. J. Kessler. No. 1,145,773; July 6; Gaz. vol. 216; p. 279.
 Mold. F. F. Landis. No. 1,154,255; Sept. 21; Gaz. vol. 218; p. 738.
 Mold. F. P. Martin. No. 1,152,334; Aug. 31; Gaz. vol. 217; p. 1617.
 Mold. T. H. McFerren. No. 1,160,299; Nov. 16; Gaz. vol. 220; p. 749.
 Mold. P. Ott. No. 1,127,671; Feb. 9; Gaz. vol. 211; p. 390.
 Mold. W. M. Page. No. 1,134,484; Apr. 6; Gaz. vol. 213; p. 146.
 Mold. J. E. Ridder. No. 1,124,953; Jan. 12; Gaz. vol. 210; p. 659.
 Mold. J. M. Roth. No. 1,165,025; Dec. 21; Gaz. vol. 221; p. 886.
 Mold. W. B. Satterlee. No. 1,145,270; July 6; Gaz. vol. 216; p. 103.
 Mold. F. B. Torrey. No. 1,124,237; Jan. 5; Gaz. vol. 210; p. 355.
 Mold. D. Tracy. No. 1,148,939; Aug. 3; Gaz. vol. 217; p. 161.
 Mold. A. Trayman. No. 1,126,131; Jan. 26; Gaz. vol. 210; p. 1149.
 Mold. J. P. Urban. No. 1,151,309; Aug. 24; Gaz. vol. 217; p. 1217.
 Mold. W. M. Venable. No. 1,129,144; Feb. 23; Gaz. vol. 211; p. 993.
 Mold. H. C. Walker. No. 1,151,631; Aug. 31; Gaz. vol. 217; p. 1374.
 Mold-clamping device. G. H. T. Schaefer. No. 1,159,279; Nov. 2; Gaz. vol. 220; p. 302.
 Mold-disk slides, Manual shift for. H. A. Armstrong. No. 1,161,584; Nov. 23; Gaz. vol. 220; p. 1251.
 Mold-forming apparatus. F. C. Goodwin. No. 1,133,020; Mar. 23; Gaz. vol. 212; p. 1245.
 Mold-making machine. C. F. Knowlton and F. F. Elliott; No. 1,132,723; Mar. 23; Gaz. vol. 212; p. 1135.
 Mold-making machine. W. C. Lang. No. 1,131,145; Mar. 9; Gaz. vol. 212; p. 486.
 Mold-making machine. G. A. McKeel. No. 1,145,203; July 6; Gaz. vol. 216; p. 79.
 Molds, Composition for making resilient. A. A. Schmidt. No. 1,132,217; Mar. 16; Gaz. vol. 212; p. 901.
 Molds for casting metal bedsteads and like articles, Means for making iron. G. A. Phillips. No. 1,162,876; Dec. 7; Gaz. vol. 221; p. 50.
 Molds, Method of and apparatus for venting. J. C. Davis. No. 1,157,847; Oct. 26; Gaz. vol. 219; p. 999.
 Molded articles, Forming. J. W. Aylsworth. No. 1,146,391; July 13; Gaz. vol. 216; p. 515.
 Molded articles, Making. T. M. Caven. No. 1,139,637; May 18; Gaz. vol. 214; p. 747.
 Molded material, Making. J. E. Davidson. No. 1,125,973; Jan. 26; Gaz. vol. 210; p. 1091.
 Molder's flask. O. R. Berger. No. 1,149,328; Aug. 10; Gaz. vol. 217; p. 404.
 Molder's flask. F. Haettel. No. 1,135,578; Apr. 13; Gaz. vol. 213; p. 573.
 Molders' flasks, Sand-bar for. E. Krueger. No. 1,155,073; Sept. 28; Gaz. vol. 218; p. 1046.
 Molding. W. R. Friedel. (Reissue.) No. 13,910; May 4; Gaz. vol. 214; p. 312.
 Molding. C. Jellinek. No. 1,137,489; Apr. 27; Gaz. vol. 213; p. 1330.
 Molding. J. W. Russel. No. 1,150,631; Aug. 17; Gaz. vol. 217; p. 928.
 Molding and baking machine. H. V. Bozell and H. B. Dwight. No. 1,160,368; Nov. 16; Gaz. vol. 220; p. 772.
 Molding and pressing machine. J. H. Beery. No. 1,137,377; Apr. 27; Gaz. vol. 213; p. 1292.
 Molding apparatus. A. Hamel. No. 1,138,558; May 4; Gaz. vol. 214; p. 292.
 Molding apparatus. G. E. Heckert. No. 1,139,971; May 18; Gaz. vol. 214; p. 865.
 Molding apparatus. W. H. Hofmann. No. 1,152,631; Sept. 7; Gaz. vol. 218; p. 92.
 Molding apparatus. C. G. Robinson. No. 1,146,736; July 13; Gaz. vol. 216; p. 635.
 Molding apparatus. J. B. Walker. No. 1,156,449; Oct. 12; Gaz. vol. 219; p. 416.
 Molding apparatus. P. Wernicke. No. 1,140,552; May 25; Gaz. vol. 214; p. 1106.
 Molding bodies from plastic material. C. T. Richmond. No. 1,161,249; Nov. 23; Gaz. vol. 220; p. 1133.
 Molding clay or similar material. D. W. McNeil. No. 1,142,342; June 8; Gaz. vol. 215; p. 478.
 Molding clay or similar material, Apparatus for. D. W. McNeil. No. 1,142,341; June 8; Gaz. vol. 215; p. 478.
 Molding, Connector for wood to metal. H. R. Gilson. No. 1,134,120; Apr. 6; Gaz. vol. 213; p. 13.
 Molding device. J. C. Roushar. No. 1,130,635; Mar. 2; Gaz. vol. 212; p. 277.
 Molding disk-shaped articles. J. W. Aylsworth. No. 1,146,389; July 13; Gaz. vol. 216; p. 514.
 Molding-flask. E. J. Byerlein. No. 1,159,469; Nov. 9; Gaz. vol. 220; p. 402.
 Molding-flask bar, Removable. D. M. Fahnestock. No. 1,137,851; May 4; Gaz. vol. 214; p. 45.
 Molding-flask, Extensible. T. Grask. No. 1,153,063; Sept. 7; Gaz. vol. 218; p. 247.
 Molding-flasks, Sand-supporting device for. H. J. Smith. No. 1,159,114; Nov. 2; Gaz. vol. 220; p. 243.
 Molding hollow objects of refractory condensation products. J. W. Aylsworth. No. 1,135,962; Apr. 13; Gaz. vol. 213; p. 708.
 Molding liquid-borne particles, Machine for. J. H. Rivers. No. 1,138,891; May 11; Gaz. vol. 214; p. 449.
 Molding-machine. W. J. Baird. No. 1,137,946; May 4; Gaz. vol. 214; p. 78.
 Molding-machine. L. J. Bazzoni and J. J. Gillespie. No. 1,145,397; July 6; Gaz. vol. 216; p. 147.
 Molding-machine. M. Brock. No. 1,130,138; Mar. 2; Gaz. vol. 212; p. 103.
 Molding-machine. S. M. Coffman. No. 1,161,188; Nev. 23; Gaz. vol. 220; p. 1111.
 Molding-machine. O. Eisele. No. 1,144,180; June 22; Gaz. vol. 215; p. 1184.
 Molding-machine. G. L. Grimes. No. 1,130,968; Mar. 9; Gaz. vol. 212; p. 426.
 Molding-machine. L. G. Haase. No. 1,156,358; Oct. 12; Gaz. vol. 219; p. 383.
 Molding-machine. B. Keller. No. 1,129,873; Mar. 2; Gaz. vol. 212; p. 14.
 Molding-machine. F. E. Layman. No. 1,150,437; Aug. 17; Gaz. vol. 217; p. 859.
 Molding-machine. W. Lewis. No. 1,157,403; Oct. 19; Gaz. vol. 219; p. 783.
 Molding-machine. W. Lewis. No. 1,157,405; Oct. 19; Gaz. vol. 219; p. 784.
 Molding-machine. A. M. Loudon and J. Gow. No. 1,135,120; Apr. 13; Gaz. vol. 213; p. 414.
 Molding-machine. A. V. Magnuson. No. 1,129,411; Feb. 23; Gaz. vol. 211; p. 1086.
 Molding-machine. A. McCarte. No. 1,134,396; Apr. 6; Gaz. vol. 213; p. 113.
 Molding-machine. A. McCarte. No. 1,134,397; Apr. 6; Gaz. vol. 213; p. 114.
 Molding-machine. E. H. Mumford. No. 1,151,213; Aug. 24; Gaz. vol. 217; p. 1186.
 Molding-machine. F. G. Sands. No. 1,127,095; Feb. 2; Gaz. vol. 211; p. 152.
 Molding-machine. G. E. Stevens. No. 1,157,967; Oct. 26; Gaz. vol. 219; p. 1042.
 Molding-machine. B. W. Sweet. No. 1,151,063; Aug. 24; Gaz. vol. 217; p. 1134.
 Molding-machine. E. F. Thiemann. No. 1,127,113; Feb. 2; Gaz. vol. 211; p. 159.
 Molding-machine. H. Tscherning. No. 1,155,019; Sept. 28; Gaz. vol. 218; p. 1026.
 Molding-machine. E. L. Williams, Jr. No. 1,140,785; May 25; Gaz. vol. 214; p. 1183.
 Molding machine, Clay-. R. Garrison and G. W. Whipple. No. 1,147,627; July 20; Gaz. vol. 216; p. 968.
 Molding-machine, Foundry. E. G. Todt. No. 1,126,916; Feb. 2; Gaz. vol. 211; p. 88.

- Molding-machine with lifting arrangement, Hand. A. Utard. No. 1,144,400; June 29; Gaz. vol. 215; p. 1288.
- Molding, Metallic. G. A. Johnson. No. 1,141,188; June 1; Gaz. vol. 215; p. 35.
- Molding, Method and apparatus for. J. C. Ogden. No. 1,134,404; Apr. 6; Gaz. vol. 213; p. 117.
- Molding or briquetting, Mechanism for preparing pulverulent materials for. E. B. A. and R. A. Zwayer. No. 1,152,469; Sept. 7; Gaz. vol. 218; p. 31.
- Molding or shaping machine. E. J. Noble. No. 1,146,812; July 20; Gaz. vol. 216; p. 683.
- Molding plastic materials, Machine for. L. Penkala. No. 1,163,449; Dec. 7; Gaz. vol. 221; p. 250.
- Molding plastic materials, Machine or press for. L. Penkala. No. 1,163,448; Dec. 7; Gaz. vol. 221; p. 250.
- Molding-press. G. G. Heghinlan. No. 1,128,309; Feb. 16; Gaz. vol. 211; p. 667.
- Molding-press, Power. C. F. Burroughs and F. B. Northrup. No. 1,126,953; Feb. 2; Gaz. vol. 211; p. 101.
- Molding-presses, Dies for power. C. F. Burroughs and F. B. Northrup. No. 1,126,954; Feb. 2; Gaz. vol. 211; p. 101.
- Molding sheets of fibrous materials. E. Lanhoffer. No. 1,154,256; Sept. 21; Gaz. vol. 218; p. 738.
- Molding sticky and viscous materials. J. H. King. No. 1,165,677; Dec. 28; Gaz. vol. 221; p. 1154.
- Molding-strip cutting or forming device. D. Paolucci. No. 1,124,509; Jan. 12; Gaz. vol. 210; p. 501.
- Moldboard-support. D. W. Daley. No. 1,149,637; Aug. 10; Gaz. vol. 217; p. 516.
- Mole-trap. M. W. Russell. No. 1,135,052; Apr. 13; Gaz. vol. 213; p. 391.
- Mole-trap. M. W. Russell. No. 1,165,209; Dec. 21; Gaz. vol. 221; p. 952.
- Molten or emulsion-like substances on a cooling-surface, Apparatus for cooling. C. Christensen. No. 1,130,670; Mar. 2; Gaz. vol. 212; p. 290.
- Money-changer, Subtractive. J. F. Hibner. No. 1,123,296; Jan. 5; Gaz. vol. 210; p. 32.
- Money-changing machine. C. T. Dodson. No. 1,144,698; June 29; Gaz. vol. 215; p. 1389.
- Money-changing machine. E. D. Hale. No. 1,162,051; Nov. 30; Gaz. vol. 220; p. 1459.
- Money-changing machine. H. C. Walker and A. L. Boatwright. No. 1,157,826; Oct. 26; Gaz. vol. 219; p. 991.
- Money-paying machine. S. J. Bachardy. No. 1,149,886; Aug. 10; Gaz. vol. 217; p. 604.
- Money-receiving apparatus. H. A. Drew and G. M. Mazza. No. 1,163,515; Dec. 7; Gaz. vol. 221; p. 273.
- Monkey-wrench. A. G. Kopacki. No. 1,145,597; July 6; Gaz. vol. 216; p. 216.
- Mono-ammonium phosphate, Making. F. S. Washburn. No. 1,142,068; June 8; Gaz. vol. 215; p. 382.
- Monolithic inscription-stone. W. H. Filer. No. 1,155,140; Sept. 28; Gaz. vol. 218; p. 1070.
- Monolithic structures, Molding. W. H. Filer. No. 1,150,354; Aug. 17; Gaz. vol. 217; p. 832.
- Monoplane. F. and E. Kramsky. No. 1,141,347; June 1; Gaz. vol. 215; p. 92.
- Monorail. J. R. Coe. No. 1,132,913; Mar. 23; Gaz. vol. 212; p. 1204.
- Monorail construction, Portable. J. A. Thornton. No. 1,124,361; Jan. 12; Gaz. vol. 210; p. 447.
- Monorailway. T. C. Spelling. No. 1,140,412; May 25; Gaz. vol. 214; p. 1055.
- Monument mound, and flower-bed, Combined. F. Schreyer. No. 1,130,203; Mar. 2; Gaz. vol. 212; p. 126.
- Mop. J. M. Brower. No. 1,156,750; Oct. 12; Gaz. vol. 219; p. 522.
- Mop. B. C. and H. R. Cremering. No. 1,151,664; Aug. 31; Gaz. vol. 217; p. 1384.
- Mop. F. L. Cunningham. No. 1,160,265; Nov. 16; Gaz. vol. 220; p. 737.
- Mop. A. J. Ean. No. 1,131,348; Mar. 9; Gaz. vol. 212; p. 556.
- Mop. T. J. Ellis. No. 1,127,875; Feb. 9; Gaz. vol. 211; p. 466.
- Mop. A. L. Evans. No. 1,161,644; Nov. 23; Gaz. vol. 220; p. 1271.
- Mop. J. B. Johnson. No. 1,147,174; July 20; Gaz. vol. 216; p. 809.
- Mop. T. G. Johnson. No. 1,162,723; Nov. 30; Gaz. vol. 220; p. 1687.
- Mop. G. Kawasaki. No. 1,137,760; May 4; Gaz. vol. 214; p. 13.
- Mop. D. T. Punch. No. 1,158,846; Nov. 2; Gaz. vol. 220; p. 154.
- Mop. A. E. Squyers and W. T. Hefner. No. 1,148,869; Aug. 3; Gaz. vol. 217; p. 137.
- Mop. E. S. Winn. No. 1,148,561; Aug. 3; Gaz. vol. 217; p. 28.
- Mop and wringer, Combined. R. A. Rodgers. No. 1,142,628; June 8; Gaz. vol. 215; p. 578.
- Mop and wringer, Combined. E. R. Zimmerman. No. 1,126,930; Feb. 2; Gaz. vol. 211; p. 93.
- Mop, Dish-. C. S. Nelson. No. 1,150,957; Aug. 24; Gaz. vol. 217; p. 1098.
- Mop, Dust-. G. A. Fry. No. 1,143,528; June 15; Gaz. vol. 215; p. 930.
- Mop, Dust-. C. B. Gilmore. No. 1,155,564; Oct. 5; Gaz. vol. 219; p. 83.
- Mop, Dust-. W. D. Godfrey. No. 1,138,373; May 4; Gaz. vol. 214; p. 230.
- Mop, Dust-. A. H. Harrison. No. 1,132,658; Mar. 23; Gaz. vol. 212; p. 1112.
- Mop, Dust-. T. G. Johnson. No. 1,134,984; Apr. 6; Gaz. vol. 213; p. 323.
- Mop, Dust-. G. P. Vosbrink. No. 1,151,139; Aug. 24; Gaz. vol. 217; p. 1160.
- Mop, Floor-. E. Nahr. No. 1,159,252; Nov. 2; Gaz. vol. 220; p. 293.
- Mop-handle-attaching means. W. Severns. No. 1,134,915; Apr. 6; Gaz. vol. 213; p. 296.
- Mop, Hardwood-floor. K. T. Tanaka. No. 1,146,668; July 13; Gaz. vol. 216; p. 613.
- Mop-head. C. A. Channell. No. 1,148,955; Aug. 3; Gaz. vol. 217; p. 166.
- Mop-head. H. I. Davis. No. 1,135,098; Apr. 13; Gaz. vol. 213; p. 406.
- Mop head and wringer, Combined. E. C. Worns. No. 1,161,104; Nov. 23; Gaz. vol. 220; p. 1079.
- Mop-holder. T. Johnson. No. 1,163,824; Dec. 14; Gaz. vol. 221; p. 428.
- Mop-holder. P. W. Mulder. No. 1,123,784; Jan. 5; Gaz. vol. 210; p. 201.
- Mop-holder. J. J. Phare. No. 1,132,524; Mar. 16; Gaz. vol. 212; p. 1014.
- Mop-holders, Locking device for. J. T. Willson. No. 1,148,558; Aug. 3; Gaz. vol. 217; p. 27.
- Mop-holders, Locking device for. J. T. Willson. No. 1,148,559; Aug. 3; Gaz. vol. 217; p. 27.
- Mop or brush. B. S. Winn. No. 1,148,560; Aug. 3; Gaz. vol. 217; p. 27.
- Mop, Sanitary. O. W. Dunlap. No. 1,146,410; July 13; Gaz. vol. 216; p. 522.
- Mop, Self-wringing. J. G. Scott. No. 1,126,887; Feb. 2; Gaz. vol. 211; p. 78.
- Mop, Window-. G. E. Shaw. No. 1,126,889; Feb. 2; Gaz. vol. 211; p. 79.
- Mop-wringer. J. W. Cuppy. No. 1,147,612; July 20; Gaz. vol. 216; p. 963.
- Mop-wringer. M. E. Davis. No. 1,157,152; Oct. 19; Gaz. vol. 219; p. 693.
- Mop-wringer. A. R. Douglass. No. 1,157,091; Oct. 19; Gaz. vol. 219; p. 672.
- Mop-wringer. G. Humphries. No. 1,138,570; May 4; Gaz. vol. 214; p. 296.
- Mop-wringer. J. W. Rosenberry. No. 1,137,907; May 4; Gaz. vol. 214; p. 64.
- Mop-wringer. J. Schmoliner. No. 1,162,403; Nov. 30; Gaz. vol. 220; p. 1580.
- Mop-wringer. C. E. Van Doorn. No. 1,132,752; Mar. 23; Gaz. vol. 212; p. 1146.
- Mop-wringer. W. H. Welch. No. 1,128,083; Feb. 9; Gaz. vol. 211; p. 539.
- Mops, brushes, and the like, Machine for making. J. T. Opie. No. 1,125,585; Jan. 19; Gaz. vol. 210; p. 851.
- Morris chair. C. L. Greilick. No. 1,151,099; Aug. 24; Gaz. vol. 217; p. 1145.
- Morris chair and bed, Combination. F. H. Donovan. No. 1,153,423; Sept. 14; Gaz. vol. 218; p. 414.
- Mortar and the like mixing machine. P. F. Reimann. No. 1,165,905; Dec. 28; Gaz. vol. 221; p. 1233.
- Mortar, Prepared. C. M. Long. No. 1,162,790; Dec. 7; Gaz. vol. 221; p. 21.
- Mortar-spreader. C. D. Doll. No. 1,158,460; Nov. 2; Gaz. vol. 220; p. 17.
- Mortar-spreader. G. W. Maskrey and E. Sheldon. No. 1,125,146; Jan. 19; Gaz. vol. 210; p. 763.
- Mortar-spreader, Stationary. F. H. Neuberger. No. 1,130,532; Mar. 2; Gaz. vol. 212; p. 243.
- Mortars and the like, Breech-closure for. F. Jantsch. No. 1,161,686; Nov. 23; Gaz. vol. 220; p. 1286.
- Mortise-lock. J. M. Swanzy. No. 1,162,664; Nov. 30; Gaz. vol. 220; p. 1666.
- Mortising-machine. G. W. Campbell. No. 1,149,629; Aug. 10; Gaz. vol. 217; p. 513.
- Mortising-machine. G. E. Norris. No. 1,155,160; Sept. 28; Gaz. vol. 218; p. 1077.
- Mortising-machine. G. H. T. C. P., and H. P. Schaeffer. No. 1,126,093; Jan. 26; Gaz. vol. 210; p. 1136.
- Mosaics, Means for setting. F. Alcan. No. 1,133,604; Mar. 30; Gaz. vol. 212; p. 1488.
- Motion according to one law into a motion according to another law, Apparatus for the conversion of. A. Barr and W. Stroud. No. 1,159,463; Nov. 9; Gaz. vol. 220; p. 400.
- Motion according to one law into motion according to another law, Apparatus for the conversion of. W. A. Mouton, A. Barr, and W. Stroud. No. 1,150,785; Aug. 17; Gaz. vol. 217; p. 980.
- Motion, Clutch mechanism for transmitting rotary. W. A. Hatcher. No. 1,162,605; Nov. 30; Gaz. vol. 220; p. 1648.
- Motion-converting device. C. Specht and T. Williams. No. 1,126,899; Feb. 2; Gaz. vol. 211; p. 82.
- Motion-converting device. F. L. Temple. No. 1,142,641; June 8; Gaz. vol. 215; p. 582.
- Motion-converting means. F. H. Dryden. No. 1,141,323; June 1; Gaz. vol. 215; p. 84.
- Motion, Device for eliminating lost. A. P. Gustafson. No. 1,129,483; Feb. 23; Gaz. vol. 211; p. 1112.

Alphabetical list of inventions—Continued.

- Motion, Means for changing reciprocating to rotary.** J. McClelland. No. 1,161,235; Nov. 23; Gaz. vol. 220; p. 1128.
- Motion, Mechanism for intermittent.** A. Mehlfelder. No. 1,164,377; Dec. 14; Gaz. vol. 221; p. 620.
- Motion, Mechanism for the conversion of reciprocating into rotary.** G. Cassidy and C. F. Mendhan. No. 1,182,161; Mar. 16; Gaz. vol. 212; p. 880.
- Motion to rotary motion, Mechanism for converting reciprocating.** S. Sylvester. No. 1,163,485; Dec. 7; Gaz. vol. 221; p. 262.
- Motion translation and transmission mechanism.** T. Carroll. No. 1,156,271; Oct. 12; Gaz. vol. 219; p. 352.
- Motion-transmitting mechanism.** S. P. Thrasher. No. 1,158,588; Nov. 2; Gaz. vol. 220; p. 63.
- Motion-transmitting mechanism.** J. C. Ukena. No. 1,132,809; Mar. 23; Gaz. vol. 212; p. 1168.
- Motion-transmitting mechanism, Rotary.** G. Goddu. No. 1,162,233; Nov. 30; Gaz. vol. 220; p. 1522.
- Motometer.** S. H. Hoggson. No. 1,133,646; Mar. 30; Gaz. vol. 212; p. 1504.
- Motor: See—**
- | | |
|------------------------------|----------------------------|
| Air-motor. | Induction-motor. |
| Air and water motor. | Internal-combustion motor. |
| Air-cooled motor. | Liquid-pressure motor. |
| Baling-press motor. | Manual motor. |
| Boat-motor. | Motor-motor. |
| Chimney-motor. | Outboard motor. |
| Commutator-motor. | Pressure-motor. |
| Current-motor. | Reciprocating motor. |
| Door-motor. | Rotary motor. |
| Electric motor. | Single-phase motor. |
| Electric regenerative motor. | Sleigh-motor. |
| Explosion-motor. | Spring-motor. |
| Fan-motor. | Thermostat-motor. |
| Fluid-motor. | Tide-motor. |
| Fluid-actuated motor. | Two-cycle motor. |
| Fluid-operated motor. | Variable-stroke motor. |
| Fluid-pressure motor. | Vibration-absorbing motor. |
| Gas-motor. | Water-motor. |
| Horological motor. | Wave-motor. |
| Hydraulic motor. | Weight-motor. |
| Hydrocarbon-motor. | Windmotor. |
- Motor.** T. P. Brooks. No. 1,145,969; July 13; Gaz. vol. 216; p. 367.
- Motor.** D. F. Domizi. No. 1,155,998; Oct. 5; Gaz. vol. 219; p. 232.
- Motor.** A. E. Hall. No. 1,162,052; Nov. 30; Gaz. vol. 220; p. 1459.
- Motor.** N. H. Holland. No. 1,162,780; Dec. 7; Gaz. vol. 221; p. 17.
- Motor.** J. C. Kersteter. No. 1,162,372; Nov. 30; Gaz. vol. 220; p. 1570.
- Motor.** L. Miller. No. 1,134,147; Apr. 6; Gaz. vol. 213; p. 23.
- Motor.** W. H. Muzzy. No. 1,161,005; Nov. 16; Gaz. vol. 220; p. 1000.
- Motor.** L. S. Rizer. No. 1,140,532; May 25; Gaz. vol. 214; p. 1100.
- Motor.** D. S. Waugh. No. 1,157,605; Oct. 19; Gaz. vol. 219; p. 849.
- Motor.** M. J. Weber. No. 1,149,549; Aug. 10; Gaz. vol. 217; p. 481.
- Motor and other vehicle.** A. Mutti. No. 1,165,701; Dec. 28; Gaz. vol. 221; p. 1162.
- Motor and pump, Combined.** F. C. Nickol. No. 1,161,787; Nov. 23; Gaz. vol. 220; p. 1321.
- Motor and pump, Convertible.** D. D. Miles. No. 1,149,851; Aug. 10; Gaz. vol. 217; p. 592.
- Motor and pump, Convertible.** E. T. Schmucker. No. 1,132,393; Mar. 16; Gaz. vol. 212; p. 966.
- Motor brake, Electric.** A. E. Handy. No. 1,134,739; Apr. 6; Gaz. vol. 213; p. 240.
- Motor brake, Springs.** G. L. Bonham. No. 1,143,030; June 15; Gaz. vol. 215; p. 757.
- Motor-cabinet.** N. H. Holland and M. C. Durand. No. 1,150,519; Aug. 17; Gaz. vol. 217; p. 888.
- Motor control.** C. H. Herr. No. 1,165,098; Dec. 21; Gaz. vol. 221; p. 912.
- Motor-control apparatus, Electric.** H. F. Hitner. No. 1,164,719; Dec. 21; Gaz. vol. 221; p. 779.
- Motor-control apparatus, Electric.** J. S. Holliday. No. 1,147,171; July 20; Gaz. vol. 216; p. 808.
- Motor-control device.** W. S. Menden. No. 1,138,497; May 4; Gaz. vol. 214; p. 272.
- Motor control, Electric.** C. S. Jennings. No. 1,137,006; Apr. 27; Gaz. vol. 213; p. 1156.
- Motor control, Electric.** M. C. A. Latour. No. 1,157,313; Oct. 19; Gaz. vol. 219; p. 751.
- Motor-control mechanism, Electric.** J. Buckley. No. 1,136,405; Apr. 20; Gaz. vol. 213; p. 906.
- Motor-control system.** J. H. Albrecht. No. 1,152,376; Aug. 31; Gaz. vol. 217; p. 1633.
- Motor-control system.** H. L. Beach. No. 1,156,656; Oct. 12; Gaz. vol. 219; p. 490.
- Motor-control system.** J. H. Hall. No. 1,155,484; Oct. 5; Gaz. vol. 219; p. 56.
- Motor-control system.** E. A. Hanff. No. 1,156,682; Oct. 12; Gaz. vol. 219; p. 498.
- Motor-control system.** S. H. Keefer. No. 1,156,484; Oct. 12; Gaz. vol. 219; p. 429.
- Motor-control system.** J. C. Smith. No. 1,149,600; Aug. 10; Gaz. vol. 217; p. 499.
- Motor-control system.** G. E. Stack. No. 1,126,311; Jan. 26; Gaz. vol. 210; p. 1214.
- Motor-control system.** G. H. Whittingham. No. 1,124,186; Jan. 5; Gaz. vol. 210; p. 338.
- Motor-control system.** E. C. Woodruff. No. 1,136,195; Apr. 20; Gaz. vol. 213; p. 830.
- Motor-control system, Electric.** H. L. Beach. No. 1,155,197; Sept. 28; Gaz. vol. 218; p. 1090.
- Motor-control system, Electric.** H. L. Beach. No. 1,157,203; Oct. 19; Gaz. vol. 219; p. 711.
- Motor-control system, Electric.** W. Cooper. No. 1,126,163; Jan. 26; Gaz. vol. 210; p. 1160.
- Motor-control system, Electric.** A. J. Hall. No. 1,126,193; Jan. 26; Gaz. vol. 210; p. 1174.
- Motor-control system, Electric.** A. J. Hall. No. 1,143,955; June 22; Gaz. vol. 215; p. 1103.
- Motor-control system, Electric.** A. J. Hall and L. G. Riley. No. 1,143,956; June 22; Gaz. vol. 215; p. 1103.
- Motor-control system, Electric.** F. D. Hallock. No. 1,145,680; July 6; Gaz. vol. 216; p. 245.
- Motor-control system, Electric.** J. F. Tritle. No. 1,160,674; Nov. 16; Gaz. vol. 220; p. 884.
- Motor-controller.** M. M. Goldenstein. No. 1,136,668; Apr. 20; Gaz. vol. 213; p. 998.
- Motor-controller.** C. T. Henderson. No. 1,143,194; June 15; Gaz. vol. 215; p. 816.
- Motor-controller.** A. J. Horton. No. 1,163,150; Dec. 7; Gaz. vol. 221; p. 145.
- Motor-controller.** C. J. Kruse. No. 1,128,692; Feb. 16; Gaz. vol. 211; p. 797.
- Motor-controller.** G. R. Radley. No. 1,144,431; June 29; Gaz. vol. 215; p. 1299.
- Motor-controller.** W. M. Shallock. No. 1,136,621; Apr. 20; Gaz. vol. 213; p. 982.
- Motor-controller.** L. L. Tatum. No. 1,141,154; June 1; Gaz. vol. 215; p. 22.
- Motor-controller.** F. P. Townsend. No. 1,140,545; May 25; Gaz. vol. 214; p. 1104.
- Motor-controller.** C. W. Yerger. No. 1,157,277; Oct. 19; Gaz. vol. 219; p. 739.
- Motor controller and indicator.** F. W. Smith. No. 1,144,388; June 29; Gaz. vol. 215; p. 1284.
- Motor controller, Door.** J. F. McElroy. No. 1,145,911; July 13; Gaz. vol. 216; p. 347.
- Motor controller, Electric.** H. W. Cheney. No. 1,125,815; Jan. 19; Gaz. vol. 210; p. 1003.
- Motor controller, Electric.** H. H. Cutler. No. 1,154,976; Sept. 28; Gaz. vol. 218; p. 1012.
- Motor controller, Electric.** F. W. Harris. No. 1,124,732; Jan. 12; Gaz. vol. 210; p. 581.
- Motor controller, Electric.** C. T. Henderson. No. 1,134,196; Apr. 6; Gaz. vol. 213; p. 41.
- Motor controller, Electric.** L. G. Riley. No. 1,157,904; Oct. 26; Gaz. vol. 219; p. 1020.
- Motor controller, Electric.** T. Varney. No. 1,164,038; Dec. 14; Gaz. vol. 221; p. 502.
- Motor-controlling apparatus, Speed-dependent.** S. H. Keefer. No. 1,124,142; Jan. 5; Gaz. vol. 210; p. 320.
- Motor-controlling device.** F. Hymans. No. 1,141,548; June 1; Gaz. vol. 215; p. 164.
- Motor-controlling device for taxicabs, &c.** W. L. Majors. No. 1,123,906; Jan. 5; Gaz. vol. 210; p. 241.
- Motor-controlling means, Electric.** J. C. Brackett. No. 1,124,280; Jan. 12; Gaz. vol. 210; p. 419.
- Motor-controlling means, Electric.** G. H. Whittingham and W. T. Holmes. No. 1,124,086; Jan. 5; Gaz. vol. 210; p. 301.
- Motor-cooling system.** C. E. Duryea. No. 1,156,067; Oct. 12; Gaz. vol. 219; p. 284.
- Motor-cycles, Two-speed gear for.** F. S. Ellett. No. 1,149,901; Aug. 10; Gaz. vol. 217; p. 610.
- Motor device, Electric.** W. H. Bristol. No. 1,162,447; Nov. 30; Gaz. vol. 220; p. 1596.
- Motor-driven machines, Controlling means for.** R. K. Le Blond and W. F. Groene. No. 1,126,235; Jan. 26; Gaz. vol. 210; p. 1188.
- Motor-generator set.** C. W. Dake. No. 1,145,565; July 6; Gaz. vol. 216; p. 206.
- Motor guide and holder, Adjustable.** F. McGough, Sr. No. 1,126,053; Jan. 26; Gaz. vol. 210; p. 1120.
- Motor-holding apparatus.** F. V. Dolder. No. 1,127,969; Feb. 9; Gaz. vol. 211; p. 499.
- Motor limit-controller.** G. J. Stuart. No. 1,154,274; Sept. 21; Gaz. vol. 218; p. 744.
- Motor machine, Compressed-air.** C. Cooper. No. 1,131,913; Mar. 16; Gaz. vol. 212; p. 790.
- Motor or velocipede skate.** E. E. Ries. No. 1,150,227; Aug. 17; Gaz. vol. 217; p. 788.
- Motor-regulator.** W. F. Cooper. No. 1,134,821; Apr. 6; Gaz. vol. 213; p. 267.
- Motor respirator, Gasoline.** C. H. Smith. No. 1,135,142; Apr. 13; Gaz. vol. 213; p. 422.
- Motor-reversing mechanism, Electric.** H. Steinhart. No. 1,133,675; Mar. 30; Gaz. vol. 212; p. 1516.
- Motor safety device, Gasoline.** R. J. Bradbury. No. 1,144,101; June 22; Gaz. vol. 215; p. 1155.
- Motor safety device, Starting.** F. Conrad. No. 1,130,573; Mar. 2; Gaz. vol. 212; p. 257.

- Motor safety device, Starting-. F. H. Miller. No. 1,130,004; Mar. 2; Gaz. vol. 212; p. 57.
- Motor safety device, Starting-. C. B. Mills. No. 1,130,675; Mar. 2; Gaz. vol. 212; p. 292.
- Motor safety device, Starting-. J. P. Nikonow. No. 1,130,010; Mar. 2; Gaz. vol. 212; p. 59.
- Motor safety device, Starting-. S. Trood. No. 1,130,041; Mar. 2; Gaz. vol. 212; p. 70.
- Motor-skate. E. E. Ries. No. 1,150,966; Aug. 24; Gaz. vol. 217; p. 1101.
- Motor-starter. H. W. Hamilton. No. 1,149,136; Aug. 3; Gaz. vol. 217; p. 228.
- Motor-starter. J. A. Parkinson. No. 1,141,261; June 1; Gaz. vol. 215; p. 60.
- Motor-starter. G. H. Whittingham. No. 1,135,870; Apr. 13; Gaz. vol. 213; p. 676.
- Motor-starter. G. H. Whittingham. No. 1,151,550; Aug. 24; Gaz. vol. 217; p. 1300.
- Motor-starter-actuating means. J. A. Parkinson. No. 1,155,003; Sept. 28; Gaz. vol. 218; p. 1021.
- Motor starter, Alternating-current-. J. C. Lincoln. No. 1,163,424; Dec. 7; Gaz. vol. 221; p. 241.
- Motor starter, Internal-combustion-. A. L. Golden. No. 1,157,690; Oct. 26; Gaz. vol. 219; p. 945.
- Motor-starting apparatus, Pneumatic. H. A. Brooks. No. 1,148,888; Aug. 3; Gaz. vol. 217; p. 143.
- Motor-starting crank, Safety-. E. A. Marsh. No. 1,163,551; Dec. 7; Gaz. vol. 221; p. 285.
- Motor-starting device. W. Johnston. No. 1,138,116; May 4; Gaz. vol. 214; p. 140.
- Motor-starting device. W. H. Shimpf. No. 1,144,437; June 29; Gaz. vol. 215; p. 1301.
- Motor starting device, Alternating and three-phrase current. M. Kallmann. No. 1,127,263; Feb. 2; Gaz. vol. 211; p. 210.
- Motor-starting device, Gas-operated. J. M. Clark, 3d. No. 1,144,349; June 29; Gaz. vol. 215; p. 1272.
- Motor-starting device, Internal-combustion-. L. A. Casgrain. No. 1,132,160; Mar. 16; Gaz. vol. 212; p. 880.
- Motor-starting mechanism. J. Keller. No. 1,135,694; Apr. 13; Gaz. vol. 213; p. 614.
- Motor-starting mechanism. W. P. Rudkin. No. 1,135,849; Apr. 13; Gaz. vol. 213; p. 669.
- Motor-starting rheostat, Electric-. C. Kosnick. No. 1,164,291; Dec. 14; Gaz. vol. 221; p. 589.
- Motor support, Driving-. E. Cheshire. No. 1,135,767; Apr. 13; Gaz. vol. 213; p. 639.
- Motor-transmission-mechanism-lubricating device. G. W. Dunham. No. 1,145,007; July 6; Gaz. vol. 216; p. 10.
- Motor wheel, Electric. W. D. Valentine. No. 1,151,741; Aug. 31; Gaz. vol. 217; p. 1410.
- Motors, Adjustable speed control for electric. A. Kimble and J. D. Nies. No. 1,128,005; Feb. 9; Gaz. vol. 211; p. 511.
- Motors and dynamos, Brush-holder for. J. B. Cullen. No. 1,140,803; May 25; Gaz. vol. 214; p. 1189.
- Motors and the like, Device for protecting induction-. E. C. Schweitzer. No. 1,157,051; Oct. 19; Gaz. vol. 219; p. 658.
- Motors, Automatic starter for electric. L. Bradley. No. 1,161,021; Nov. 23; Gaz. vol. 220; p. 1051.
- Motors, Braking internal-combustion. W. Schwerdtfeger. No. 1,160,659; Nov. 16; Gaz. vol. 220; p. 879.
- Motors, Centrifugal circuit-changing device for electric. E. S. Pillsbury. No. 1,130,017; Mar. 2; Gaz. vol. 212; p. 62.
- Motors, Centrifugal circuit-changing device for electric. E. S. Pillsbury. No. 1,157,179; Oct. 19; Gaz. vol. 219; p. 703.
- Motors, Connecting means for internal-combustion. C. Y. Knight. No. 1,155,071; Sept. 28; Gaz. vol. 218; p. 1046.
- Motors, Distant-control system for electric. G. A. Pierce. No. 1,133,663; Mar. 30; Gaz. vol. 212; p. 1512.
- Motors, Dual ignition system for internal-combustion. E. A. Briggs. No. 1,165,492; Dec. 28; Gaz. vol. 221; p. 1088.
- Motors, Gas-saver for explosive-. G. E. Thompson. No. 1,139,737; May 18; Gaz. vol. 214; p. 782.
- Motors, Governing device for the fuel-admission valves of combustion-. F. Schwarz. No. 1,149,092; Aug. 3; Gaz. vol. 217; p. 213.
- Motors, Heater and thermostat attachment for. T. C. Leake. No. 1,137,219; Apr. 27; Gaz. vol. 213; p. 1233.
- Motors, Ignition-timing device for internal-combustion. W. E. Nickerson. No. 1,139,707; May 18; Gaz. vol. 214; p. 772.
- Motors, Means for collectively actuating and controlling alternating-current. J. L. Routin. No. 1,142,274; June 8; Gaz. vol. 215; p. 455.
- Motors, Means for regulating the speed of electric. F. G. Liljenroth. No. 1,165,788; Dec. 28; Gaz. vol. 221; p. 1192.
- Motors, Means for supplying water to fuel charge of internal-combustion. I. D. Powers and J. W. Burns. No. 1,133,665; Mar. 30; Gaz. vol. 212; p. 1512.
- Motors, Method of and arrangement for braking internal-combustion. W. Schwerdtfeger. No. 1,161,417; Nov. 23; Gaz. vol. 220; p. 1194.
- Motors, Operating polyphase. H. W. Doubrava and J. Heineman. No. 1,156,136; Oct. 12; Gaz. vol. 219; p. 308.
- Motors, Over-speed protecting device for electric. N. W. Storer. No. 1,161,994; Nov. 30; Gaz. vol. 220; p. 1439.
- Motors, Potential starter for alternating-current. H. W. Cheney. No. 1,125,004; Jan. 12; Gaz. vol. 210; p. 678.
- Motors, Regulating the speed of alternating-current. O. Knöpfli. No. 1,137,566; May 4; Gaz. vol. 214; p. 50.
- Motors, Safety speed-control apparatus for. S. N. Eckmann and J. Wagner. No. 1,138,647; May 11; Gaz. vol. 214; p. 361.
- Motors, Short-circuiting device for electric. C. L. Kennedy. No. 1,145,594; July 6; Gaz. vol. 216; p. 215.
- Motors, System and method of control for electric. L. G. Riley. No. 1,155,164; Sept. 28; Gaz. vol. 218; p. 1079.
- Motors, System and method of control for electric. N. W. Storer. No. 1,155,170; Sept. 28; Gaz. vol. 218; p. 1081.
- Motors, Thermostatic control for electric. D. P. Cartwright. No. 1,136,312; Apr. 20; Gaz. vol. 213; p. 871.
- Mounting apparatus. E. L. Harmon. No. 1,146,792; July 20; Gaz. vol. 216; p. 676.
- Mounting objects. F. B. Cook. No. 1,161,191; Nov. 23; Gaz. vol. 220; p. 1112.
- Mouse-trap. R. Innes. No. 1,149,584; Aug. 10; Gaz. vol. 217; p. 493.
- Mouse-trap. J. T. McArdle. No. 1,149,774; Aug. 10; Gaz. vol. 217; p. 564.
- Mouse-trap. H. Pierini. No. 1,126,563; Jan. 26; Gaz. vol. 210; p. 1306.
- Mouse-trap. H. M. Sprague. No. 1,140,542; May 25; Gaz. vol. 214; p. 1102.
- Mouse-trap, Everset. F. M. Drum. No. 1,163,071; Dec. 7; Gaz. vol. 221; p. 117.
- Mouth-gag for horses and other animals. F. Swales. No. 1,130,346; Mar. 2; Gaz. vol. 212; p. 175.
- Mouthpiece. L. Steinberger. No. 1,160,545; Nov. 16; Gaz. vol. 220; p. 836.
- Mouthpiece-connector, Medicated. C. M. Anders. No. 1,143,097; June 15; Gaz. vol. 215; p. 782.
- Mouthpiece for transmitters. L. Steinberger. No. 1,124,547; Jan. 12; Gaz. vol. 210; p. 515.
- Mouthpiece, Sanitary. E. M. Jenkins. (Reissue.) No. 13,942; July 6; Gaz. vol. 216; p. 316.
- Moving apparatus, Material-. H. B. Sauerman. No. 1,159,106; Nov. 2; Gaz. vol. 220; p. 240.
- Mower. C. D. Carter. No. 1,129,640; Feb. 23; Gaz. vol. 211; p. 1166.
- Mower. J. Dain. No. 1,147,708; July 27; Gaz. vol. 216; p. 1023.
- Mower. J. Dain. No. 1,147,709; July 27; Gaz. vol. 216; p. 1024.
- Mower. G. P. Helfrich. No. 1,134,851; Apr. 6; Gaz. vol. 213; p. 276.
- Mower. N. L. and H. Nilson. No. 1,145,697; July 6; Gaz. vol. 216; p. 252.
- Mower and tedder. W. R. Jones. No. 1,137,630; Apr. 27; Gaz. vol. 213; p. 1377.
- Mower attachment. J. W. Mosely. No. 1,135,463; Apr. 13; Gaz. vol. 213; p. 532.
- Mower attachment, Lawn-. W. P. Faulkner. No. 1,163,745; Dec. 14; Gaz. vol. 221; p. 400.
- Mower attachment, Lawn-. C. Swanson. No. 1,135,071; Apr. 13; Gaz. vol. 213; p. 397.
- Mower, Horse-operated push-. D. Lounsberry. No. 1,164,827; Dec. 21; Gaz. vol. 221; p. 817.
- Mower, Lawn-. I. H. Caister. No. 1,144,690; June 29; Gaz. vol. 215; p. 1386.
- Mower, Lawn-. W. H. Coldwell. No. 1,150,931; Aug. 24; Gaz. vol. 217; p. 1089.
- Mower, Lawn-. J. A. Dennewitz. No. 1,148,153; July 27; Gaz. vol. 216; p. 1182.
- Mower, Lawn-. W. E. Graham. No. 1,135,683; Apr. 13; Gaz. vol. 213; p. 610.
- Mower, Lawn-. A. Haugland. No. 1,139,180; May 11; Gaz. vol. 214; p. 552.
- Mower, Lawn-. C. E. Hewitt, J. Bernor, and F. J. Bacon. No. 1,130,283; Mar. 2; Gaz. vol. 212; p. 154.
- Mower, Lawn-. H. H. Montague. No. 1,153,943; Sept. 21; Gaz. vol. 218; p. 631.
- Mower, Lawn-. R. K. Ortt. No. 1,134,899; Apr. 6; Gaz. vol. 213; p. 292.
- Mower, Lawn-. J. P. Patterson. No. 1,140,526; May 25; Gaz. vol. 214; p. 1097.
- Mower, Lawn-. T. Price. No. 1,144,244; June 22; Gaz. vol. 215; p. 1206.
- Mower, Lawn-. C. O. W. Thomas. No. 1,148,203; July 27; Gaz. vol. 216; p. 1199.
- Mower, Lawn-. J. D. Tillman. No. 1,134,650; Apr. 6; Gaz. vol. 213; p. 207.
- Mower, Motor-driven lawn-. S. E. Beeler. No. 1,156,520; Oct. 12; Gaz. vol. 219; p. 441.
- Mower, Motor lawn-. W. H. Coldwell. No. 1,138,730; May 11; Gaz. vol. 214; p. 392.
- Mower, Motor lawn-. I. H. Davis. No. 1,124,214; Jan. 5; Gaz. vol. 210; p. 347.
- Mower, Motor-propelled lawn-. R. A. Jones. No. 1,127,260; Feb. 2; Gaz. vol. 211; p. 210.
- Mower, Power lawn-. R. E. Olds. No. 1,131,156; Mar. 9; Gaz. vol. 212; p. 489.
- Mower, Two-speed lawn-. E. Lockwood. No. 1,160,297; Nov. 16; Gaz. vol. 220; p. 749.
- Mowers, Grass-catcher for lawn-. J. E. Garstang. No. 1,125,507; Jan. 19; Gaz. vol. 210; p. 892.

Alphabetical list of inventions—Continued.

- Mowers, Hay-raking attachment to. D. P. Jones. No. 1,138,223; May 4; Gaz. vol. 214; p. 175.
- Mowing and reaping machines and grain-harvesters, Cutting apparatus for. H. L. Hopkins. No. 1,158,500; Nov. 2; Gaz. vol. 220; p. 31.
- Mowing and reaping machines and grain-harvesters, Cutting apparatus for. H. L. Hopkins. No. 1,158,501; Nov. 2; Gaz. vol. 220; p. 32.
- Mowing and reaping machines, Guard-finger for. L. A. Picotte. No. 1,130,330; Mar. 2; Gaz. vol. 212; p. 169.
- Mowing-machine. G. S. Beemer. No. 1,133,085; Mar. 23; Gaz. vol. 212; p. 1268.
- Mowing-machine. L. Bertrand. No. 1,155,988; Oct. 5; Gaz. vol. 219; p. 229.
- Mowing-machine. A. Grieves. No. 1,164,713; Dec. 21; Gaz. vol. 221; p. 777.
- Mowing-machine. C. Lorensen. No. 1,140,175; May 18; Gaz. vol. 214; p. 938.
- Mowing-machine. N. and L. Nilson. No. 1,164,305; Dec. 14; Gaz. vol. 221; p. 593.
- Mowing-machine. E. C. Smith. No. 1,146,967; July 20; Gaz. vol. 216; p. 738.
- Mowing-machine attachment. W. Elery. No. 1,155,305; Sept. 28; Gaz. vol. 218; p. 1122.
- Mowing-machine attachment. D. A. Lindholm. No. 1,134,339; Apr. 6; Gaz. vol. 213; p. 94.
- Mowing-machine blades, Locking means for. B. C. Parsons. No. 1,137,662; Apr. 27; Gaz. vol. 213; p. 1387.
- Mowing-machine bunching attachment. A. H. Eckardt. No. 1,153,842; Sept. 14; Gaz. vol. 218; p. 562.
- Mowing-machine for sugar-cane. V. J. Vitek. No. 1,152,994; Sept. 7; Gaz. vol. 218; p. 226.
- Mowing-machine gearing. J. M. Wardlaw. No. 1,162,323; Nov. 30; Gaz. vol. 220; p. 1555.
- Mowing-machine, Railway. T. McGee. No. 1,158,702; Nov. 2; Gaz. vol. 220; p. 102.
- Mowing-machines and harvesters, Endless cutting apparatus for. J. C. Swanson. No. 1,136,628; Apr. 20; Gaz. vol. 213; p. 984.
- Mowing-machines, &c., Cutting apparatus for. J. H. McElroy. No. 1,158,521; Nov. 2; Gaz. vol. 220; p. 39.
- Mowing-machines, Hay-tedder attachment for. H. Moegenborg. No. 1,124,499; Jan. 12; Gaz. vol. 210; p. 497.
- Mudlage-spreader. P. Neukirchen. No. 1,164,848; Dec. 21; Gaz. vol. 221; p. 825.
- Mud-guard, Side splash. H. V. N. Graveley. No. 1,131,644; Mar. 9; Gaz. vol. 212; p. 661.
- Mud-puller fastening. L. O. Pillsbury. No. 1,164,747; Dec. 21; Gaz. vol. 221; p. 788.
- Mud-puller, Quick-detachable. L. O. Pillsbury. No. 1,165,442; Dec. 28; Gaz. vol. 221; p. 1071.
- Mud-ring. W. L. Bean. No. 1,156,455; Oct. 12; Gaz. vol. 219; p. 419.
- Muffle-furnace for enameling. O. Zahn. No. 1,124,380; Jan. 12; Gaz. vol. 210; p. 454.
- Muffler. P. E. Brauer. No. 1,163,128; Dec. 7; Gaz. vol. 221; p. 137.
- Muffler. S. A. Cochell. No. 1,131,825; Mar. 16; Gaz. vol. 212; p. 760.
- Muffler. W. J. Goelzer. No. 1,128,206; Feb. 16; Gaz. vol. 211; p. 666.
- Muffler. C. Gorosa. No. 1,131,233; Mar. 9; Gaz. vol. 212; p. 516.
- Muffler. F. Hornquist. No. 1,127,892; Feb. 9; Gaz. vol. 211; p. 473.
- Muffler. W. M. Hunt. No. 1,148,900; Aug. 3; Gaz. vol. 217; p. 147.
- Muffler. W. R. McCulla. No. 1,140,693; May 25; Gaz. vol. 214; p. 1152.
- Muffler. S. Meyers. No. 1,144,858; June 29; Gaz. vol. 215; p. 1445.
- Muffler. C. A. Miller. No. 1,153,097; Sept. 7; Gaz. vol. 218; p. 260.
- Muffler. N. Rapp. No. 1,155,757; Oct. 5; Gaz. vol. 219; p. 149.
- Muffler. S. G. Salka. No. 1,153,260; Sept. 14; Gaz. vol. 218; p. 354.
- Muffler. E. Schmitt. No. 1,157,256; Oct. 19; Gaz. vol. 219; p. 732.
- Muffler. F. W. Sperry. No. 1,149,699; Aug. 10; Gaz. vol. 217; p. 537.
- Muffler. E. Troike. No. 1,137,554; Apr. 27; Gaz. vol. 213; p. 1352.
- Muffler. C. A. Wilson. No. 1,125,426; Jan. 19; Gaz. vol. 210; p. 865.
- Muffler, Exhaust-. T. J. Kehoe. No. 1,157,005; Oct. 19; Gaz. vol. 219; p. 641.
- Mulcher, Surface-. R. F. and C. H. Gaston. No. 1,145,136; July 6; Gaz. vol. 216; p. 56.
- Mules and twiners, Guard for self-acting. J. Pickford. No. 1,144,500; June 29; Gaz. vol. 215; p. 1322.
- Mullon. H. F. Wardwell. No. 1,157,827; Oct. 26; Gaz. vol. 219; p. 992.
- Mulsher. J. C. Sikes. No. 1,150,638; Aug. 17; Gaz. vol. 217; p. 931.
- Multicylinder engine. E. G. Gunn. No. 1,132,256; Mar. 16; Gaz. vol. 212; p. 917.
- Multiduct. T. E. Murray and A. V. A. McHarg. No. 1,132,676; Mar. 23; Gaz. vol. 212; p. 1117.
- Multiduct. T. E. Murray and A. V. A. McHarg. No. 1,149,592; Aug. 10; Gaz. vol. 217; p. 496.
- Multigraphic apparatus. H. Hess. No. 1,149,261; Aug. 10; Gaz. vol. 217; p. 378.
- Multiple-combustion furnace. D. B. Devore. No. 1,149,739; Aug. 10; Gaz. vol. 217; p. 551.
- Multiple drill. J. A. Eden, Jr. No. 1,134,521; Apr. 6; Gaz. vol. 213; p. 160.
- Multiple drill. C. R. Sturdevant and A. L. Benoit. No. 1,126,313; Jan. 26; Gaz. vol. 210; p. 1215.
- Multiple register. E. J. Von Pein. No. 1,123,433; Jan. 5; Gaz. vol. 210; p. 81.
- Multiple-spindle drill. A. P. Kern, Jr. No. 1,148,094; July 27; Gaz. vol. 216; p. 1161.
- Multiple spring. H. S. Grace. No. 1,125,016; Jan. 12; Gaz. vol. 210; p. 682.
- Multiple-unit heater. W. S. Elliott. No. 1,139,172; May 11; Gaz. vol. 214; p. 549.
- Multiple-use machine of boring-mill type. A. H. Ingle and A. J. Gosselin. No. 1,123,881; Jan. 5; Gaz. vol. 210; p. 233.
- Multiplications, Machine for the effecting of. J. Vermeiren. No. 1,134,169; Apr. 6; Gaz. vol. 213; p. 31.
- Museum-case. E. Ekedahl. No. 1,146,415; July 13; Gaz. vol. 216; p. 524.
- Music-cabinet and piano-case, Combination. W. G. Betz. No. 1,145,828; July 6; Gaz. vol. 216; p. 299.
- Music-clamp. W. W. and E. V. Malone. No. 1,138,302; May 4; Gaz. vol. 214; p. 203.
- Music-desk and table, Combination. L. E. Newhall. No. 1,135,543; Apr. 13; Gaz. vol. 213; p. 560.
- Music-holder. A. M. Browne. No. 1,161,606; Nov. 23; Gaz. vol. 220; p. 1258.
- Music-holder. C. A. Mehm and C. E. Tite. No. 1,133,490; Mar. 30; Gaz. vol. 212; p. 1446.
- Music-holder. C. G. Moberg. No. 1,140,277; May 18; Gaz. vol. 214; p. 971.
- Music-holder. M. A. Tryens. No. 1,157,194; Oct. 19; Gaz. vol. 219; p. 708.
- Music holder, Disk and sheet-. H. Rosenberg. No. 1,150,538; Aug. 17; Gaz. vol. 217; p. 896.
- Music-indicator. W. M. Davis. No. 1,131,481; Mar. 9; Gaz. vol. 212; p. 603.
- Music-leaf turner. F. Archibald. No. 1,125,250; Jan. 19; Gaz. vol. 210; p. 801.
- Music-leaf turner. P. J. Bertucci. No. 1,133,915; Mar. 30; Gaz. vol. 212; p. 1599.
- Music-leaf turner. L. C. Bishoff. No. 1,164,570; Dec. 14; Gaz. vol. 221; p. 686.
- Music-leaf turner. T. Boldizzoni and P. Bosio. No. 1,150,740; Aug. 17; Gaz. vol. 217; p. 965.
- Music-leaf turner. L. A. Bower. No. 1,135,255; Apr. 13; Gaz. vol. 213; p. 459.
- Music-leaf turner. W. S. Chappell, Jr. No. 1,164,780; Dec. 21; Gaz. vol. 221; p. 801.
- Music-leaf turner. H. Dennis. No. 1,125,269; Jan. 19; Gaz. vol. 210; p. 809.
- Music-leaf turner. W. Ellman. No. 1,131,125; Mar. 9; Gaz. vol. 212; p. 479.
- Music-leaf turner. J. Hartman. No. 1,123,131; Jan. 5; Gaz. vol. 210; p. 317.
- Music-leaf turner. J. A. Hodam. No. 1,149,052; Aug. 3; Gaz. vol. 217; p. 201.
- Music-leaf turner. S. W. Johnson and J. H. Aberle. No. 1,164,355; Dec. 14; Gaz. vol. 221; p. 612.
- Music-leaf turner. I. E. and H. J. Jones. No. 1,151,469; Aug. 24; Gaz. vol. 217; p. 1270.
- Music-leaf turner. E. H. Kraus. No. 1,132,358; Mar. 16; Gaz. vol. 212; p. 953.
- Music-leaf turner. G. A. Leonard. No. 1,164,826; Dec. 21; Gaz. vol. 221; p. 817.
- Music-leaf turner. S. B. Marble. No. 1,140,695; May 25; Gaz. vol. 214; p. 1153.
- Music-leaf turner. R. Marino. No. 1,131,537; Mar. 9; Gaz. vol. 212; p. 622.
- Music-leaf turner. S. E. Matthews. No. 1,165,431; Dec. 28; Gaz. vol. 221; p. 1067.
- Music-leaf turner. I. R. Naugle. No. 1,152,538; Sept. 7; Gaz. vol. 218; p. 59.
- Music-leaf turner. E. Olson. No. 1,139,438; May 11; Gaz. vol. 214; p. 642.
- Music-leaf turner. F. W. Posvar. No. 1,128,185; Feb. 9; Gaz. vol. 211; p. 574.
- Music-leaf turner. E. F. Renfro. No. 1,146,815; July 20; Gaz. vol. 216; p. 684.
- Music-leaf turner. J. J. Retzler and J. L. Shelton. No. 1,140,612; May 25; Gaz. vol. 214; p. 1126.
- Music-leaf turner. C. G. Rust. No. 1,144,917; June 29; Gaz. vol. 215; p. 1464.
- Music-leaf turner. C. F. Sammet. No. 1,154,342; Sept. 21; Gaz. vol. 218; p. 768.
- Music-leaf turner. J. P. Sauerwald. No. 1,164,874; Dec. 21; Gaz. vol. 221; p. 833.
- Music-leaf turner. A. A. Simon. No. 1,159,331; Nov. 2; Gaz. vol. 220; p. 320.
- Music-leaf turner. E. T. Spitler. No. 1,134,024; Mar. 30; Gaz. vol. 212; p. 1633.
- Music-leaf turner. D. Thornton. No. 1,153,731; Sept. 14; Gaz. vol. 218; p. 522.
- Music-leaf turner. D. Vanderbos. No. 1,145,280; July 6; Gaz. vol. 216; p. 106.
- Music-leaf turner. R. Weber. No. 1,129,259; Feb. 23; Gaz. vol. 211; p. 1033.

Alphabetical list of inventions—Continued.

- Music-leaf turner. H. L. Wing. No. 1,146,379; July 13; Gaz. vol. 216; p. 511.
- Music-leaf turner. C. F. Wyatt. No. 1,152,462; Sept. 7; Gaz. vol. 218; p. 28.
- Music-leaf-turning apparatus. J. H. Pérez. No. 1,132,682; Mar. 23; Gaz. vol. 212; p. 1119.
- Music-note recording and duplicating apparatus. E. C. Weissmiller. No. 1,162,267; Nov. 30; Gaz. vol. 220; p. 1535.
- Music-player. D. G. Hauss and A. Dom. No. 1,138,103; May 4; Gaz. vol. 214; p. 135.
- Music-player valve. R. A. Gally. No. 1,153,056; Sept. 7; Gaz. vol. 218; p. 245.
- Music-player tracker mechanism. D. J. Hauss. No. 1,128,976; Feb. 16; Gaz. vol. 211; p. 899.
- Music-players, Transposing-tracker for mechanical. R. A. Leadbeter. No. 1,145,426; July 6; Gaz. vol. 216; p. 157.
- Music-playing device, Check-controlled. P. Hänsel. No. 1,146,067; July 13; Gaz. vol. 216; p. 402.
- Music-roll. G. H. Davis. No. 1,156,891; Oct. 19; Gaz. vol. 219; p. 600.
- Music-roll. G. H. Davis. No. 1,158,122; Oct. 26; Gaz. vol. 219; p. 1097.
- Music-roll for mechanical musical instruments. C. A. Ahlstrom. No. 1,136,577; Apr. 20; Gaz. vol. 213; p. 967.
- Music-roll for mechanical musical instruments. C. A. Ahlstrom. No. 1,149,317; Aug. 10; Gaz. vol. 217; p. 399.
- Music-roll holder. C. W. Dorricott. No. 1,147,929; July 27; Gaz. vol. 216; p. 1100.
- Music-roll-operating mechanism. L. H. Maier. No. 1,146,436; July 13; Gaz. vol. 216; p. 532.
- Music-rolls, Expression-markings for player-piano. C. S. Jassey. No. 1,140,746; May 25; Gaz. vol. 214; p. 1170.
- Music-rolls of piano-players, Equalizing device for. A. Young. No. 1,127,343; Feb. 2; Gaz. vol. 211; p. 236.
- Music-rolls, Spool for. C. T. Schoen. No. 1,143,143; June 15; Gaz. vol. 215; p. 796.
- Music-sheet. W. Bayley. No. 1,152,926; Sept. 7; Gaz. vol. 218; p. 201.
- Music-sheet, Perforated. J. Heyl. No. 1,159,670; Nov. 9; Gaz. vol. 220; p. 473.
- Music-sheet turner. H. C. Anderson and J. Gaffney. No. 1,156,199; Oct. 12; Gaz. vol. 219; p. 328.
- Music-sheet turner. R. B. Andros. No. 1,149,885; Aug. 10; Gaz. vol. 217; p. 603.
- Music-sheets for player-pianos, Apparatus for use in making. S. L. Dickinson. No. 1,126,725; Feb. 2; Gaz. vol. 211; p. 20.
- Music-sheets, Gearing for operating the rolls for. S. J. Staples. No. 1,159,287; Nov. 2; Gaz. vol. 220; p. 305.
- Music-sheets, Machine for cutting perforated. A. J. Swing. No. 1,146,459; July 13; Gaz. vol. 216; p. 542.
- Music-sheets, Tab for perforated. W. H. Rees. No. 1,131,005; Mar. 9; Gaz. vol. 212; p. 439.
- Music-stand. F. E. Allen. No. 1,147,589; July 20; Gaz. vol. 216; p. 955.
- Music-teaching device. E. M. Widdis. No. 1,133,773; Mar. 30; Gaz. vol. 212; p. 1549.
- Music-turner. C. A. Breen. No. 1,128,939; Feb. 16; Gaz. vol. 211; p. 886.
- Music-turner. H. H. Schlack. No. 1,150,393; Aug. 17; Gaz. vol. 217; p. 845.
- Music turner, Sheet. J. J. Barrett. No. 1,125,635; Jan. 19; Gaz. vol. 210; p. 937.
- Musical apparatus, Governor mechanism for pneumatic. J. P. Eustis and A. T. Brown. No. 1,165,081; Dec. 21; Gaz. vol. 221; p. 905.
- Musical apparatus, Under-water-operated. F. Gouget. No. 1,164,501; Dec. 14; Gaz. vol. 221; p. 663.
- Musical device. E. S. Mayland. No. 1,136,355; Apr. 20; Gaz. vol. 213; p. 887.
- Musical instrument. F. X. Audet. No. 1,142,744; June 8; Gaz. vol. 215; p. 614.
- Musical instrument. J. W. Darley, Jr. No. 1,155,299; Sept. 23; Gaz. vol. 218; p. 1120.
- Musical instrument. H. S. Hornbeck. No. 1,142,255; June 8; Gaz. vol. 215; p. 448.
- Musical instrument. H. R. Osborn. No. 1,133,741; Mar. 30; Gaz. vol. 212; p. 1538.
- Musical instrument. F. W. Wood. No. 1,152,254; Aug. 31; Gaz. vol. 217; p. 1588.
- Musical-instrument-adjusting device. R. G. Benson. No. 1,125,047; Jan. 19; Gaz. vol. 210; p. 728.
- Musical instrument, Automatic. C. Freborg. No. 1,127,426; Feb. 9; Gaz. vol. 211; p. 307.
- Musical instrument, Automatic. J. Schwarz. No. 1,156,499; Oct. 12; Gaz. vol. 219; p. 434.
- Musical instrument, Automatic combination solo. P. Welin. No. 1,136,385; Apr. 20; Gaz. vol. 213; p. 898.
- Musical-instrument bellows, Motor-support for. M. Clark. No. 1,162,138; Nov. 30; Gaz. vol. 220; p. 1491.
- Musical instrument, Brass wind. R. E. Watts. No. 1,148,417; July 27; Gaz. vol. 216; p. 1274.
- Musical-instrument case. P. B. Klugh. No. 1,161,318; Nov. 23; Gaz. vol. 220; p. 1157.
- Musical instrument, Combined. E. S. Votey. No. 1,165,470; Dec. 28; Gaz. vol. 221; p. 1080.
- Musical-instrument controller, Automatic. A. Jameson. No. 1,146,574; July 13; Gaz. vol. 216; p. 582.
- Musical-instrument-controlling device, Automatic. J. W. Scharold. No. 1,124,814; Jan. 12; Gaz. vol. 210; p. 610.
- Musical instrument, Electrical. J. C. Deagan. No. 1,158,988; Nov. 2; Gaz. vol. 220; p. 201.
- Musical instrument for using two note-sheets. T. Danquard. No. 1,159,750; Nov. 9; Gaz. vol. 220; p. 502.
- Musical instrument, Mechanical. A. M. Belfield. No. 1,150,653; Aug. 17; Gaz. vol. 217; p. 936.
- Musical instrument, Mechanical. A. P. Gustafson. No. 1,133,022; Mar. 23; Gaz. vol. 212; p. 1246.
- Musical instrument, Mechanical. J. A. Weser. No. 1,137,439; Apr. 27; Gaz. vol. 213; p. 1314.
- Musical-instrument motors, Support for. E. T. Turney. No. 1,125,216; Jan. 19; Gaz. vol. 210; p. 789.
- Musical-instrument pedals. T. P. Brown. No. 1,129,067; Feb. 23; Gaz. vol. 211; p. 965.
- Musical instrument, Percussion. K. Domasiewicz. No. 1,160,392; Nov. 16; Gaz. vol. 220; p. 781.
- Musical-instrument player. P. Welin. No. 1,134,249; Apr. 6; Gaz. vol. 213; p. 61.
- Musical-instrument players, Combined tempo and dynamics controller for pneumatic. F. L. Young. No. 1,159,461; Nov. 9; Gaz. vol. 220; p. 400.
- Musical-instrument playing attachment. E. T. Turney. No. 1,131,878; Mar. 16; Gaz. vol. 212; p. 778.
- Musical instrument, Pneumatic. H. J. Anderson. No. 1,154,957; Sept. 28; Gaz. vol. 218; p. 1005.
- Musical instrument, Pneumatic. P. Wiggen. No. 1,136,190; Apr. 20; Gaz. vol. 213; p. 827.
- Musical instrument, Pneumatic automatic. R. J. Bennett. No. 1,135,152; Apr. 13; Gaz. vol. 213; p. 426.
- Musical instrument, Pneumatic self-playing. L. B. Doman. No. 1,141,621; June 1; Gaz. vol. 215; p. 190.
- Musical instrument, Self-playing. L. B. Doman. No. 1,141,044; May 25; Gaz. vol. 214; p. 1275.
- Musical instrument, Stringed. J. A. Bach. No. 1,152,925; Sept. 7; Gaz. vol. 218; p. 200.
- Musical instrument, Stringed. J. Bohmann. No. 1,125,262; Jan. 19; Gaz. vol. 210; p. 806.
- Musical-instrument valve. P. Hardy. No. 1,147,166; July 20; Gaz. vol. 216; p. 806.
- Musical instrument with magazine, Automatic. K. O. Carlson. No. 1,152,787; Sept. 7; Gaz. vol. 218; p. 148.
- Musical instrument with pneumatic control, Automatic. R. Savoye and U. Dryvers. No. 1,125,733; Jan. 19; Gaz. vol. 210; p. 974.
- Musical instruments, Adjusting device for the note-sheets of self-playing. E. G. Anderson. No. 1,134,986; Apr. 13; Gaz. vol. 213; p. 367.
- Musical instruments, Automatic control for. A. F. Hauss. No. 1,148,452; July 27; Gaz. vol. 216; p. 1285.
- Musical instruments, Automatic music-sheet-registration mechanism for automatic. J. W. Barnes. No. 1,132,547; Mar. 23; Gaz. vol. 212; p. 1069.
- Musical instruments, Bridge for stringed. A. Shutt. No. 1,138,803; May 11; Gaz. vol. 214; p. 419.
- Musical instruments, Combined recording and playing mechanism for automatic. M. Clark. No. 1,132,441; Mar. 16; Gaz. vol. 212; p. 983.
- Musical instruments, Controller-lever for automatic. A. P. Gustafson. No. 1,136,955; Apr. 27; Gaz. vol. 213; p. 1136.
- Musical instruments, Driving mechanism for automatic. F. L. McCormick. No. 1,132,104; Mar. 16; Gaz. vol. 212; p. 859.
- Musical instruments, Expression control for electric. M. L. Severy and G. B. Sinclair. No. 1,125,746; Jan. 19; Gaz. vol. 210; p. 978.
- Musical instruments, Expression device for. M. L. Severy and G. B. Sinclair. No. 1,156,321; Oct. 12; Gaz. vol. 219; p. 368.
- Musical instruments, Expression device for automatic. G. P. Brand. No. 1,141,607; June 1; Gaz. vol. 215; p. 186.
- Musical instruments, Folding pedal for. A. Young. No. 1,164,248; Dec. 14; Gaz. vol. 221; p. 573.
- Musical instruments, Key-controlled contact-maker for use with. J. W. Darley, Jr. No. 1,155,301; Sept. 28; Gaz. vol. 218; p. 1121.
- Musical instruments, Making key-seats on wind. P. C. Hardy. No. 1,153,489; Sept. 14; Gaz. vol. 218; p. 437.
- Musical instruments, Means for synchronously operating. S. S. Waters. No. 1,128,923; Feb. 16; Gaz. vol. 211; p. 880.
- Musical instruments, Note-sheet-changing device for pneumatic. W. Reichel and G. K. Hennig. No. 1,158,288; Oct. 26; Gaz. vol. 219; p. 1154.
- Musical instruments, Playing apparatus for. W. C. Reed. No. 1,165,903; Dec. 28; Gaz. vol. 221; p. 1232.
- Musical instruments, Pneumatic device for. M. Newcomer. No. 1,130,101; Mar. 2; Gaz. vol. 212; p. 90.
- Musical instruments, Pumping mechanism for self-playing. L. B. Doman. No. 1,149,996; Aug. 10; Gaz. vol. 217; p. 644.
- Musical instruments, Tempo-governor for self-playing. L. B. Doman. No. 1,160,054; Nov. 9; Gaz. vol. 220; p. 609.
- Musical instruments, Tone-modulator for pneumatically-actuated. G. K. Hennig. No. 1,164,516; Dec. 14; Gaz. vol. 221; p. 669.

Alphabetical list of inventions—Continued.

- Musical instruments, Tracker-shifting device for self-playing. L. B. Doman. No. 1,132,517; Mar. 16; Gaz. vol. 212; p. 1012.
- Musical instruments, Rerolling mechanism for. J. F. Mackin. No. 1,154,189; Sept. 21; Gaz. vol. 218; p. 714.
- Musical instruments, Valve for self-playing. W. A. Brauer. No. 1,131,203; Mar. 9; Gaz. vol. 212; p. 507.
- Musical instruments, Winding mechanism for. W. C. Hill. No. 1,145,836; July 6; Gaz. vol. 216; p. 302.
- Musical string instrument. J. Bohmann. No. 1,128,217; Feb. 9; Gaz. vol. 211; p. 584.
- Musical tones forming a tempered scale, Instrument for the production of. E. G. Thomas. No. 1,156,329; Oct. 12; Gaz. vol. 219; p. 372.
- Muzzle, Dog-. W. B. Stevens, Jr. No. 1,132,289; Mar. 16; Gaz. vol. 212; p. 929.
- N-alkylated iminoketones. K. Hess. No. 1,158,496; Nov. 2; Gaz. vol. 220; p. 29.
- N-homologues of the norhydrohydrastinin, Producing derivatives of. H. Decker. No. 1,156,134; Oct. 12; Gaz. vol. 219; p. 308.
- Nail: See—
Hobnail. Horseshoe-nail.
Hollow nail.
Nail-cutter. W. M. Randolph. No. 1,163,455; Dec. 7; Gaz. vol. 221; p. 252.
Nail-driving implement. J. Anderson. No. 1,152,260; Aug. 31; Gaz. vol. 217; p. 1591.
Nail-feeding machine. F. Barter. No. 1,164,975; Dec. 21; Gaz. vol. 221; p. 869.
Nail-feeding mechanism. H. C. Herr. No. 1,137,316; Apr. 27; Gaz. vol. 213; p. 1269.
Nail-holder. W. A. Cuihane. No. 1,152,301; Aug. 31; Gaz. vol. 217; p. 1604.
Nail holder and carrier. U. G. McJunkin. No. 1,139,879; May 18; Gaz. vol. 214; p. 833.
Nail-puller. C. E. Glafke. No. 1,135,105; Apr. 13; Gaz. vol. 213; p. 409.
Nail-puller. G. W. Grant. No. 1,132,178; Mar. 16; Gaz. vol. 212; p. 887.
Nail, screw, and spike. F. A. Rouxel. No. 1,125,885; Jan. 19; Gaz. vol. 210; p. 1025.
Nail, spike, and the like with soft-metal head. F. G. Martin and J. C. Crowther. No. 1,148,245; July 27; Gaz. vol. 216; p. 1213.
Nails, Device for double-heading. F. A. Neider. No. 1,160,191; Nov. 16; Gaz. vol. 220; p. 712.
Nails, fence-wires, &c., Implement for pulling. J. B. Smith. No. 1,143,083; June 15; Gaz. vol. 215; p. 777.
Nails, Machine for feeding. E. A. Tripp. No. 1,132,638; Mar. 23; Gaz. vol. 212; p. 1104.
Nailer, String-. L. E. Johnson. No. 1,134,617; Apr. 6; Gaz. vol. 213; p. 194.
Nailing-machine. H. W. Morgan. No. 1,132,669; Mar. 23; Gaz. vol. 212; p. 1115.
Nailing-machine. H. W. Morgan. No. 1,140,605; May 25; Gaz. vol. 214; p. 1124.
Nailing-machine. G. Sabelman. No. 1,146,105; July 13; Gaz. vol. 216; p. 415.
Nailing-machine. E. Tompkins. No. 1,135,335; Apr. 13; Gaz. vol. 213; p. 487.
Nailing machine, Basket-handle-. A. M. Taylor. No. 1,151,307; Aug. 24; Gaz. vol. 217; p. 1217.
Napkin. E. J. Corbin. No. 1,158,182; Oct. 26; Gaz. vol. 219; p. 1117.
Napkin. E. A. De Rose. No. 1,131,483; Mar. 9; Gaz. vol. 212; p. 604.
Napkin, Sanitary. M. Kojima. No. 1,123,314; Jan. 5; Gaz. vol. 210; p. 40.
Nappers, Safety device for time-clearers on. C. P. R. Thiel. No. 1,154,350; Sept. 21; Gaz. vol. 218; p. 771.
Napping-machine. R. J. Steiner. No. 1,153,173; Sept. 7; Gaz. vol. 218; p. 284.
Nasal device. F. W. Schoonmaker, Jr. No. 1,143,731; June 22; Gaz. vol. 215; p. 1025.
Nasal irrigator. C. H. W. Moellering. No. 1,126,827; Feb. 2; Gaz. vol. 211; p. 58.
Nasal tampon. C. R. Wedler. No. 1,133,770; Mar. 30; Gaz. vol. 212; p. 1548.
Naval apparatus. K. Schwartz. No. 1,166,404; Dec. 28; Gaz. vol. 221; p. 1413.
Navigation, Fog. F. L. Sawyer. No. 1,151,293; Aug. 24; Gaz. vol. 217; p. 1212.
Navigation, Method and apparatus for safeguarding. A. G. Davis. No. 1,166,331; Dec. 28; Gaz. vol. 221; p. 1386.
Navigator's course marker and finder. E. Y. Haskell. No. 1,148,380; July 27; Gaz. vol. 216; p. 1263.
Nebulizer. H. D. Young. No. 1,148,270; July 27; Gaz. vol. 216; p. 1222.
Neck-pad and cap, Adjustable. J. G. Friberg. No. 1,126,441; Jan. 26; Gaz. vol. 210; p. 1260.
Neck-shield. F. W. Esgen. No. 1,128,238; Feb. 9; Gaz. vol. 211; p. 591.
Neckband for wearing-apparel, Adjustable. I. M. Gould. No. 1,135,682; Apr. 13; Gaz. vol. 213; p. 610.
Neckband-shaper. J. McKay. No. 1,148,606; Aug. 3; Gaz. vol. 217; p. 44.
Neckband-shaper. R. Sacromone. No. 1,144,729; June 29; Gaz. vol. 215; p. 1400.
Necklace. C. Varga. No. 1,147,467; July 20; Gaz. vol. 216; p. 913.
Necklace-clasp. H. Blank. No. 1,156,267; Oct. 12; Gaz. vol. 219; p. 351.
Necktie. J. H. Allen. No. 1,136,917; Apr. 27; Gaz. vol. 213; p. 1123.
Necktie. A. N. Bachrach. No. 1,163,308; Dec. 7; Gaz. vol. 221; p. 201.
Necktie. D. S. Barnes. No. 1,125,793; Jan. 19; Gaz. vol. 210; p. 995.
Necktie. J. L. Clark, Jr. No. 1,139,016; May 11; Gaz. vol. 214; p. 495.
Necktie. S. Franc. No. 1,135,170; Apr. 13; Gaz. vol. 213; p. 431.
Necktie. S. S. Freeman. No. 1,130,587; Mar. 2; Gaz. vol. 212; p. 262.
Necktie. C. Ruben. No. 1,159,099; Nov. 2; Gaz. vol. 220; p. 238.
Necktie. E. T. Schneller. No. 1,164,756; Dec. 21; Gaz. vol. 221; p. 792.
Necktie. W. H. Smith. No. 1,140,201; May 18; Gaz. vol. 214; p. 946.
Necktie. J. A. Soderstrom. No. 1,143,086; June 15; Gaz. vol. 215; p. 778.
Necktie. J. F. Sullivan. No. 1,129,138; Feb. 23; Gaz. vol. 211; p. 991.
Necktie-clip. W. H. Hodgson. No. 1,149,444; Aug. 10; Gaz. vol. 217; p. 445.
Necktie-fastener. W. C. Bott and O. P. Clemens. No. 1,162,559; Nov. 30; Gaz. vol. 220; p. 1634.
Necktie-fastener. J. A. Fuller. No. 1,143,580; June 15; Gaz. vol. 215; p. 950.
Necktie-former. C. Fearnought. No. 1,164,590; Dec. 14; Gaz. vol. 221; p. 692.
Necktie-holder. S. L. Gedney. No. 1,155,228; Sept. 28; Gaz. vol. 218; p. 1099.
Necktie-holder. E. A. Terry. No. 1,151,065; Aug. 24; Gaz. vol. 217; p. 1134.
Necktie-holder. W. F. Walker. No. 1,149,800; Aug. 10; Gaz. vol. 217; p. 572.
Necktie holder and stretcher, Combined. M. M. May. No. 1,142,722; June 8; Gaz. vol. 215; p. 608.
Necktie-package. H. Brown. No. 1,134,722; Apr. 6; Gaz. vol. 213; p. 234.
Necktie press. F. Hardy. No. 1,123,736; Jan. 5; Gaz. vol. 210; p. 183.
Necktie-presser. B. O. Brown. No. 1,164,462; Dec. 14; Gaz. vol. 221; p. 650.
Necktie-retainer. M. S. Yeager. No. 1,132,416; Mar. 16; Gaz. vol. 212; p. 974.
Necktie-stretcher. R. V. Wooding. No. 1,164,048; Dec. 14; Gaz. vol. 221; p. 506.
Necktie supporter and stretcher. E. J. Walcott, Jr. No. 1,145,720; July 6; Gaz. vol. 216; p. 261.
Neckties, Device for permitting adjustment of. A. N. Marquis. No. 1,128,800; Feb. 16; Gaz. vol. 211; p. 835.
Neckwear. M. Heyman. No. 1,137,486; Apr. 27; Gaz. vol. 213; p. 1329.
Neckwear. W. E. Webb, Jr. No. 1,159,629; Nov. 9; Gaz. vol. 220; p. 459.
Needle. T. W. Murphy. No. 1,131,155; Mar. 9; Gaz. vol. 212; p. 489.
Needle-bar-raising mechanism. D. S. Seymour. No. 1,158,313; Oct. 26; Gaz. vol. 219; p. 1163.
Needle-clamp. J. M. Merrow. No. 1,160,308; Nov. 16; Gaz. vol. 220; p. 753.
Needle-controlling mechanism. E. U. Ames. No. 1,149,884; Aug. 10; Gaz. vol. 217; p. 603.
Needle-cutter. K. J. Peers. No. 1,161,153; Nov. 23; Gaz. vol. 220; p. 1097.
Needle cutter, Fiber-. K. J. Peers and A. L. Currier. No. 1,161,154; Nov. 23; Gaz. vol. 220; p. 1097.
Needle-guide mechanism, Curved-. E. Erickson. No. 1,151,769; Aug. 31; Gaz. vol. 217; p. 1421.
Needle-holder. E. H. Steedman. No. 1,155,378; Oct. 5; Gaz. vol. 219; p. 18.
Needle machines, Feeding mechanism for multiple-. J. R. Moffatt. No. 1,139,051; May 11; Gaz. vol. 214; p. 507.
Needle-making machine, Automatic spring-beard. W. H. Dayton. No. 1,136,778; Apr. 20; Gaz. vol. 213; p. 1037.
Needle, Sewing-. J. W. Olney. No. 1,134,001; Mar. 30; Gaz. vol. 212; p. 1625.
Needle-straightening machine. H. E. Noon. No. 1,125,706; Jan. 19; Gaz. vol. 210; p. 965.
Needle, Tape-. E. B. Graham. No. 1,151,873; Aug. 31; Gaz. vol. 217; p. 1458.
Needle-threader. L. Rostad. No. 1,159,802; Nov. 9; Gaz. vol. 220; p. 522.
Needle-threader. J. Schneider. No. 1,144,504; June 29; Gaz. vol. 215; p. 1323.
Needle-threading device. L. S. Leon. No. 1,162,938; Dec. 7; Gaz. vol. 221; p. 71.
Needle-threading device. M. L. Moore. No. 1,145,258; July 6; Gaz. vol. 216; p. 99.
Needle-threading device. F. E. Spear. No. 1,147,656; July 20; Gaz. vol. 216; p. 979.
Negative-drying rack. H. A. Smith. No. 1,165,724; Dec. 28; Gaz. vol. 221; p. 1171.
Nest. B. F. Clark. No. 1,152,706; Sept. 7; Gaz. vol. 218; p. 120.
Nest and egg-receptacle, Trap. G. L. Carr. No. 1,163,890; Dec. 14; Gaz. vol. 221; p. 450.
Nest attachment, Trap-. F. N. Cordell. No. 1,156,589; Oct. 12; Gaz. vol. 219; p. 465.

- Nest-box, Automatic. J. T. Mason. No. 1,153,808; Sept. 14; Gaz. vol. 218; p. 549.
- Nest-box, Hen's. C. O. Huseby. No. 1,138,757; May 11; Gaz. vol. 214; p. 401.
- Nest, Hen's. A. Bradley and F. A. Elliott. No. 1,160,250; Nov. 16; Gaz. vol. 220; p. 732.
- Nest, Hen's. E. Irwin. No. 1,123,300; Jan. 5; Gaz. vol. 210; p. 34.
- Nest, Hen's. W. Koyen and O. C. Erickson. No. 1,141,346; June 1; Gaz. vol. 215; p. 92.
- Nest, Hen's. H. L. McIntyre. No. 1,130,095; Mar. 2; Gaz. vol. 212; p. 88.
- Nest, Hen's. M. T. Sels. No. 1,149,544; Aug. 10; Gaz. vol. 217; p. 479.
- Nest, Hen's. D. S. Welchman. No. 1,141,438; June 1; Gaz. vol. 215; p. 126.
- Nest, Poultry trap-. A. B. Moe. No. 1,162,381; Nov. 30; Gaz. vol. 220; p. 1573.
- Nest, Trap-. J. J. Caldwell. No. 1,149,340; Aug. 10; Gaz. vol. 217; p. 408.
- Nest, Trap-. S. L. Denney. No. 1,166,191; Dec. 28; Gaz. vol. 221; p. 1335.
- Nest, Trap-. J. V. Dodson. No. 1,131,124; Mar. 9; Gaz. vol. 212; p. 479.
- Nest, Trap-. M. F. Donahae. No. 1,135,441; Apr. 13; Gaz. vol. 213; p. 524.
- Nest, Trap-. S. E. Elliott. No. 1,127,210; Feb. 2; Gaz. vol. 211; p. 192.
- Nest, Trap-. C. T. King. No. 1,138,664; May 11; Gaz. vol. 214; p. 367.
- Nest, Trap-. C. W. Mayers. No. 1,165,270; Dec. 21; Gaz. vol. 221; p. 972.
- Nest, Trap-. F. L. Morgan. No. 1,164,380; Dec. 14; Gaz. vol. 221; p. 621.
- Nest, Trap-. E. G. Schiller. No. 1,134,912; Apr. 6; Gaz. vol. 213; p. 295.
- Nest, Trap-. A. L. Womack. No. 1,146,224; July 13; Gaz. vol. 216; p. 457.
- Nest trap, Hen's-. W. H. Collins. No. 1,139,849; May 18; Gaz. vol. 214; p. 822.
- Nests, Disinfectant or fumigating attachment for. C. L. Randolph. No. 1,156,021; Oct. 5; Gaz. vol. 219; p. 241.
- Nesting house, Bird-. C. E. White. No. 1,166,100; Dec. 28; Gaz. vol. 221; p. 1300.
- Net. E. W. Anderegg. No. 1,150,325; Aug. 17; Gaz. vol. 217; p. 822.
- Net, Drop-. J. C. Morse. No. 1,152,038; Aug. 31; Gaz. vol. 217; p. 1515.
- Net fabric, Twisted-. F. Clewley. No. 1,139,344; May 11; Gaz. vol. 214; p. 606.
- Net, Fly-. E. W. Anderegg. No. 1,156,654; Oct. 12; Gaz. vol. 219; p. 489.
- Net for collecting specimens. M. H. Mead. No. 1,143,721; June 22; Gaz. vol. 215; p. 1022.
- Net for use at sea, Landing and transfer. J. A. Steinmetz. No. 1,128,072; Feb. 9; Gaz. vol. 211; p. 535.
- Net, Horse fly-. I. N. Kelsey. No. 1,128,328; Feb. 16; Gaz. vol. 211; p. 673.
- Net, Landing-. R. M. Franklin. No. 1,143,759; June 22; Gaz. vol. 215; p. 1035.
- Net shear-board. T. Sogabe. No. 1,147,983; July 27; Gaz. vol. 216; p. 1120.
- Net, Trap-. R. M. Franklin. No. 1,143,758; June 22; Gaz. vol. 215; p. 1034.
- Network with square meshes, Machine for making. L. L. de Séréville. No. 1,144,733; June 29; Gaz. vol. 215; p. 1402.
- Nethergarment. S. N. Magill. No. 1,146,585; July 13; Gaz. vol. 216; p. 586.
- Neutralizer. W. S. Hadaway, Jr. No. 1,163,656; Dec. 14; Gaz. vol. 221; p. 366.
- Newel construction, Metallic. W. Dowling. No. 1,127,743; Feb. 9; Gaz. vol. 211; p. 418.
- Newspaper. E. H. Cottrell. No. 1,126,405; Jan. 26; Gaz. vol. 210; p. 1246.
- Newspaper. E. H. Cottrell. No. 1,126,406; Jan. 26; Gaz. vol. 210; p. 1246.
- Newspaper-conveyer. F. W. Fullerton. No. 1,138,609; May 4; Gaz. vol. 214; p. 309.
- Newspaper-holder. W. Oberg. No. 1,154,537; Sept. 21; Gaz. vol. 218; p. 833.
- Nibbling and slotting machine, Combined. W. Evans. No. 1,164,338; Dec. 14; Gaz. vol. 221; p. 606.
- Nickel and copper compositions, Hardening. P. J. A. Douglass. No. 1,163,813; Dec. 14; Gaz. vol. 221; p. 424.
- Nickel hydroxid, Preparing. J. C. Woodruff. No. 1,143,543; June 15; Gaz. vol. 215; p. 868.
- Nicotin, Preparing. W. Halle. No. 1,123,522; Jan. 5; Gaz. vol. 210; p. 111.
- Nicotin solutions, Concentrating. R. G. Mewborne. No. 1,146,014; July 13; Gaz. vol. 216; p. 384.
- Nippers or similar tool. W. A. Bernard. No. 1,163,733; Dec. 14; Gaz. vol. 221; p. 395.
- Nipple and assembly for attaching nipples. P. Mueller. No. 1,124,504; Jan. 12; Gaz. vol. 210; p. 499.
- Nipple, Bath-cock. J. W. Brill. No. 1,165,838; Dec. 28; Gaz. vol. 221; p. 1208.
- Nipple for nursing-bottles. M. H. McMann. No. 1,147,740; July 27; Gaz. vol. 216; p. 1035.
- Nipple-holder. B. Starbuck. No. 1,124,546; Jan. 12; Gaz. vol. 210; p. 515.
- Nipple, Nursing-bottle. T. W. Miller. No. 1,146,639; July 13; Gaz. vol. 216; p. 604.
- Nipples and other work, Holder for. G. R. Gamble. No. 1,133,374; Mar. 30; Gaz. vol. 212; p. 1406.
- Nipples, Means for making. J. A. Dowd. No. 1,160,150; Nov. 16; Gaz. vol. 220; p. 698.
- Nitrate of ammonia, Making granular. F. L. Gallup. No. 1,131,361; Mar. 9; Gaz. vol. 212; p. 560.
- Nitrate of lime, Cooling and reducing. I. Hechenbleikner. No. 1,143,625; June 22; Gaz. vol. 215; p. 990.
- Nitrid and making the same, Stable boron. G. Weintraub. No. 1,157,271; Oct. 19; Gaz. vol. 219; p. 737.
- Nitrid composition of matter, Double-. S. Peacock. No. 1,123,585; Jan. 5; Gaz. vol. 210; p. 132.
- Nitrid, Manufacture of double. S. Peacock. No. 1,147,184; July 20; Gaz. vol. 216; p. 812.
- Nitrids, Forming double. S. Peacock. No. 1,154,800; Sept. 28; Gaz. vol. 218; p. 953.
- Nitrogen and carbon dioxide, Making. R. H. Brownlee and R. H. Uhlinger. No. 1,150,337; Aug. 17; Gaz. vol. 217; p. 826.
- Nitrogen and carbon dioxide, Making. R. H. Brownlee and R. H. Uhlinger. No. 1,154,171; Sept. 21; Gaz. vol. 218; p. 709.
- Nitrogen and carbon dioxide, Making. R. H. Brownlee and R. H. Uhlinger. No. 1,154,172; Sept. 21; Gaz. vol. 218; p. 709.
- Nitrogen and potash and recovering and solidifying the same, Concentrated product of. S. W. Sinsheimer. No. 1,134,921; Apr. 6; Gaz. vol. 213; p. 298.
- Nitrogen by metal carbide, Fixation of atmospheric. H. W. Lamb. No. 1,123,763; Jan. 5; Gaz. vol. 210; p. 194.
- Nitrogen compounds from carbids, Manufacturing. T. Fujiyama. No. 1,126,000; Jan. 26; Gaz. vol. 210; p. 1100.
- Nitrogen compounds from organic substances of animal origin, Production of soluble. E. Bohon. No. 1,138,348; May 4; Gaz. vol. 214; p. 221.
- Nitrogen compounds, Manufacturing. E. Kochendoerfer. No. 1,165,358; Dec. 21; Gaz. vol. 221; p. 1002.
- Nitrogen compounds of aluminium and alkali or alkaline-earth metals, Producing. D. A. Peniakoff. No. 1,159,989; Nov. 9; Gaz. vol. 220; p. 588.
- Nitrogen compounds, Producing. C. E. Acker. No. 1,160,811; Nov. 16; Gaz. vol. 220; p. 932.
- Nitrogen, Fixing. O. Serpek. No. 1,155,840; Oct. 5; Gaz. vol. 219; p. 181.
- Nitrogen, Fixing atmospheric. J. E. Bucher. No. 1,138,190; May 4; Gaz. vol. 214; p. 165.
- Nitrogen, Fixing atmospheric. S. Peacock. No. 1,123,584; Jan. 5; Gaz. vol. 210; p. 132.
- Nitrogen, Fixing atmospheric. S. Peacock. No. 1,143,132; June 15; Gaz. vol. 215; p. 793.
- Nitrogen, Production of. R. W. Wallace and E. Wassmer. No. 1,154,145; Sept. 21; Gaz. vol. 218; p. 700.
- Nitroglycerin, Facilitating the separation of. R. Weyel. No. 1,138,916; May 11; Gaz. vol. 214; p. 457.
- Nitroglycerin, Facilitating the separation of. R. Weyel. No. 1,138,917; May 11; Gaz. vol. 214; p. 458.
- Noiseless case for noisy machines. J. F. O'Byrne. (Re-issue.) No. 1,386,5; Jan. 12; Gaz. vol. 210; p. 689.
- Non-blinding device. E. Aderente. No. 1,140,096; May 18; Gaz. vol. 214; p. 911.
- Non-explosive preparations and making same. A. Schmidt. No. 1,136,724; Apr. 20; Gaz. vol. 213; p. 1019.
- Non-explosive tank. C. H. Wolfe and J. Heimlich. No. 1,150,089; Aug. 17; Gaz. vol. 217; p. 737.
- Non-glare device for the eyes. J. C. F. Me Vay. No. 1,164,375; Dec. 14; Gaz. vol. 221; p. 619.
- Non-skid device. S. Beres. No. 1,132,905; Mar. 23; Gaz. vol. 212; p. 1202.
- Non-skidding attachment for wheels. J. Urbanek. No. 1,136,298; Apr. 20; Gaz. vol. 213; p. 867.
- Non-skidding device. M. C. Gannett. No. 1,155,413; Oct. 5; Gaz. vol. 219; p. 31.
- Non-slipping device. W. H. Wilson. No. 1,155,293; Sept. 28; Gaz. vol. 218; p. 1118.
- Noodle-folding machine. C. Pletscher. No. 1,128,900; Feb. 16; Gaz. vol. 211; p. 872.
- Nose-bath. A. Lissauer. No. 1,127,787; Feb. 9; Gaz. vol. 211; p. 434.
- Nose-former. M. Ullich. No. 1,141,592; June 1; Gaz. vol. 215; p. 180.
- Nose-ring for live stock. U. G. Stewart. No. 1,136,496; Apr. 20; Gaz. vol. 213; p. 938.
- Nostril-dilating device. G. E. Dixon. No. 1,135,675; Apr. 13; Gaz. vol. 213; p. 608.
- Note-sheet. E. Leschbrandt. No. 1,147,738; July 27; Gaz. vol. 216; p. 1034.
- Note-sheet-guiding device. E. J. Kruck. No. 1,141,966; June 8; Gaz. vol. 215; p. 344.
- Note-sheet-guiding device. W. M. Stone. No. 1,139,082; May 11; Gaz. vol. 214; p. 517.
- Note-sheet-guiding device. F. F. Story. No. 1,148,724; Aug. 3; Gaz. vol. 217; p. 86.
- Note-sheets, Machine for applying expression-indicating lines and the like to perforated. E. G. Clark. No. 1,137,259; Apr. 27; Gaz. vol. 213; p. 1248.
- Novelty for advertising and other purposes. T. A. Hoecker and E. A. Benz. No. 1,131,699; Mar. 16; Gaz. vol. 212; p. 713.
- Nozzle. N. F. Ambursen. No. 1,124,579; Jan. 12; Gaz. vol. 210; p. 526.

Alphabetical list of inventions—Continued.

- Nozzle. L. J. Baum. No. 1,157,973; Oct. 26; Gaz. vol. 219; p. 1044.
- Nozzle. M. J. Galvin. No. 1,157,861; Oct. 26; Gaz. vol. 219; p. 1004.
- Nozzle. A. Hustus. No. 1,124,742; Jan. 12; Gaz. vol. 210; p. 585.
- Nozzle. E. Josse and W. Gensecke. No. 1,155,735; Oct. 5; Gaz. vol. 219; p. 143.
- Nozzle-attaching means. W. Kieser. No. 1,154,777; Sept. 28; Gaz. vol. 218; p. 945.
- Nozzle, Blast. E. B. Cornell and D. Townsend. No. 1,123,792; Jan. 5; Gaz. vol. 210; p. 269.
- Nozzle, Cement and concrete. P. C. Pettitt. No. 1,153,132; Sept. 7; Gaz. vol. 218; p. 270.
- Nozzle, Convertible spray and jet. S. Nedbor. No. 1,128,178; Feb. 9; Gaz. vol. 211; p. 572.
- Nozzle, Distributing. A. H. Ryan. No. 1,152,225; Aug. 31; Gaz. vol. 217; p. 1579.
- Nozzle, Drinking-fountain. G. M. Page. No. 1,158,147; Oct. 26; Gaz. vol. 219; p. 1105.
- Nozzle, Exhaust. C. B. King and C. B. Weston. No. 1,154,026; Sept. 21; Gaz. vol. 218; p. 659.
- Nozzle, Filling. W. W. Davis and W. Jaeschke. No. 1,150,420; Aug. 17; Gaz. vol. 217; p. 854.
- Nozzle for atomizing oil, Adjustable. R. A. Milne. No. 1,153,401; Sept. 14; Gaz. vol. 218; p. 406.
- Nozzle for road-treating machines, Rotary spray-. S. E. Finley. No. 1,161,205; Nov. 23; Gaz. vol. 220; p. 1117.
- Nozzle, Fuse. R. F. Bower. No. 1,165,313; Dec. 21; Gaz. vol. 221; p. 986.
- Nozzle-holder. E. Nelson. No. 1,144,495; June 29; Gaz. vol. 215; p. 1320.
- Nozzle holder, Adjustable hose. S. P. Howes. No. 1,129,197; Feb. 23; Gaz. vol. 211; p. 1011.
- Nozzle, Hose. H. Gibbs. No. 1,159,015; Nov. 2; Gaz. vol. 220; p. 209.
- Nozzle, Hydraulic. W. A. Doble. No. 1,157,853; Oct. 26; Gaz. vol. 219; p. 1001.
- Nozzle, Hydraulic. W. M. White. No. 1,155,631; Oct. 5; Gaz. vol. 219; p. 106.
- Nozzle, Irrigating. W. H. Coles. No. 1,126,707; Feb. 2; Gaz. vol. 211; p. 14.
- Nozzle, Nebulizing. H. N. Motsinger. No. 1,133,656; Mar. 30; Gaz. vol. 212; p. 1508.
- Nozzle, Spray-. A. G. Eneas. No. 1,163,591; Dec. 7; Gaz. vol. 221; p. 299.
- Nozzle, Spray-. K. MacDonald. No. 1,153,805; Sept. 14; Gaz. vol. 218; p. 548.
- Nozzle, Spraying-. P. T. Naylor. No. 1,138,500; May 4; Gaz. vol. 214; p. 273.
- Nozzle, Sprinkler-. M. Gault and A. L. Fales. No. 1,165,240; Dec. 21; Gaz. vol. 221; p. 962.
- Nozzle, Sprinkler-. R. M. Hunter. No. 1,160,612; Nov. 16; Gaz. vol. 220; p. 860.
- Nozzle, Sprinkling-. C. G. Dietsch. No. 1,151,089; Aug. 24; Gaz. vol. 217; p. 1142.
- Nozzle, Steam-exhaust. F. Mertsheimer. No. 1,155,362; Oct. 5; Gaz. vol. 219; p. 13.
- Nozzle, Suction cleaning-. A. J. Tice. No. 1,161,908; Nov. 30; Gaz. vol. 220; p. 1409.
- Nozzle, Variable. A. B. Brown. No. 1,151,656; Aug. 31; Gaz. vol. 217; p. 1382.
- Nozzles, Control mechanism for auxiliary. W. A. Doble. No. 1,123,860; Jan. 5; Gaz. vol. 210; p. 226.
- Nozzles, Spraying attachment for hose-. A. J. Sargent. No. 1,158,302; Oct. 26; Gaz. vol. 219; p. 1159.
- Numbering-head. J. H. Reinhardt. No. 1,157,647; Oct. 19; Gaz. vol. 219; p. 863.
- Numbering-head. A. H. Smith. No. 1,125,196; Jan. 19; Gaz. vol. 210; p. 781.
- Numbering-head. A. H. Smith. No. 1,132,493; Mar. 16; Gaz. vol. 212; p. 1002.
- Numbering-head. A. H. Smith. No. 1,138,323; May 4; Gaz. vol. 214; p. 212.
- Numbering-machine. M. H. Kern. No. 1,144,138; June 22; Gaz. vol. 215; p. 1169.
- Numbering-machine. M. H. Kern. No. 1,157,698; Oct. 26; Gaz. vol. 219; p. 948.
- Numbering-machine. M. H. Kern. No. 1,157,699; Oct. 26; Gaz. vol. 219; p. 948.
- Numbering-machine. L. K. Scotford. No. 1,145,085; July 6; Gaz. vol. 216; p. 41.
- Numbering-machine. A. H. Smith. No. 1,133,510; Mar. 30; Gaz. vol. 212; p. 1454.
- Numbering-machine, Automatic. L. K. Scotford. No. 1,145,084; July 6; Gaz. vol. 216; p. 40.
- Numbering-machines, Indicating device for. W. A. Force. No. 1,153,901; Sept. 21; Gaz. vol. 218; p. 616.
- Nurser, Anticolic. M. Montgomery. No. 1,165,275; Dec. 21; Gaz. vol. 221; p. 974.
- Nursery-chair. L. G. Loyer. No. 1,163,837; Dec. 14; Gaz. vol. 221; p. 432.
- Nursery-chair. J. F. Rudduck. No. 1,163,263; Dec. 7; Gaz. vol. 221; p. 185.
- Nut. H. G. Carlson. No. 1,157,615; Oct. 19; Gaz. vol. 219; p. 853.
- Nut. J. W. Meaker. No. 1,156,798; Oct. 12; Gaz. vol. 219; p. 537.
- Nut. A. C. Recker. No. 1,166,002; Dec. 28; Gaz. vol. 221; p. 1266.
- Nut and bolt lock. H. Herman. No. 1,133,860; Mar. 30; Gaz. vol. 212; p. 1582.
- Nut and bolt lock. O. King, T. H. Fox, and J. L. O. King. No. 1,138,574; May 4; Gaz. vol. 214; p. 297.
- Nut and bolt lock. J. H. McGee. No. 1,165,615; Dec. 28; Gaz. vol. 221; p. 1131.
- Nut and bolt lock. E. F. Rourke. No. 1,150,149; Aug. 17; Gaz. vol. 217; p. 760.
- Nut and bolt, Lock. R. E. Rosewarne. No. 1,128,725; Feb. 16; Gaz. vol. 211; p. 809.
- Nut and bolt locking and releasing device. O. A. Mentzer. No. 1,143,127; June 15; Gaz. vol. 215; p. 791.
- Nut and retainer. E. A. Green. No. 1,166,203; Dec. 28; Gaz. vol. 221; p. 1340.
- Nut and slips, Combined rotary drilling. E. Double. No. 1,143,257; June 15; Gaz. vol. 215; p. 838.
- Nut, Automatic lock. E. E. Brubaker. No. 1,141,608; June 1; Gaz. vol. 216; p. 186.
- Nut-blank-making machine. W. S. Bidle and J. A. Costello. No. 1,147,364; July 20; Gaz. vol. 216; p. 875.
- Nut-blanks, Machine for making hot-pressed. W. S. Bidle and J. A. Costello. No. 1,145,227; July 6; Gaz. vol. 216; p. 88.
- Nut bursting or cracking machine. R. Lund and T. F. Hind. No. 1,165,107; Dec. 21; Gaz. vol. 221; p. 916.
- Nut-castelling machine. O. A. Smith and B. F. Rindfleisch. No. 1,157,258; Oct. 19; Gaz. vol. 219; p. 732.
- Nut construction for roll-adjusting devices and the like, Removable. P. V. Tippet. No. 1,135,076; Apr. 13; Gaz. vol. 213; p. 399.
- Nut-cracking machine. J. D. Canale. No. 1,160,376; Nov. 16; Gaz. vol. 220; p. 775.
- Nut-cracking machine. W. Gebhardt. No. 1,133,121; Mar. 23; Gaz. vol. 212; p. 1281.
- Nut-cracking machine. C. W. McDonald. No. 1,143,843; June 22; Gaz. vol. 215; p. 1064.
- Nut-cracking machine. T. C. Suzzi. No. 1,123,950; Jan. 5; Gaz. vol. 210; p. 255.
- Nut-cracking machine. D. B. Williams. No. 1,132,817; Mar. 23; Gaz. vol. 212; p. 1171.
- Nut-cracking machine. R. E. Woodson. No. 1,125,427; Jan. 19; Gaz. vol. 210; p. 865.
- Nut, Crusher-shaft. W. S. Weston. No. 1,143,005; June 15; Gaz. vol. 215; p. 749.
- Nut-cutting machine. L. J. Monahan. No. 1,150,219; Aug. 17; Gaz. vol. 217; p. 784.
- Nut device, Lock-. E. F. Gobatti. No. 1,138,861; May 11; Gaz. vol. 214; p. 440.
- Nut dipping and coating machines, Feeder for. J. Conte. No. 1,158,120; Oct. 26; Gaz. vol. 219; p. 1096.
- Nut for a bolt, Lock-. F. W. Burnett. No. 1,136,310; Apr. 20; Gaz. vol. 213; p. 871.
- Nut for bench-vices. O. Anderson. No. 1,134,937; Apr. 6; Gaz. vol. 213; p. 304.
- Nut guard, Screw-. J. D. Kiehl. No. 1,161,317; Nov. 23; Gaz. vol. 220; p. 1157.
- Nut, Lock-. O. Anderson. No. 1,140,234; May 18; Gaz. vol. 214; p. 957.
- Nut, Lock-. E. G. Chalker. No. 1,164,575; Dec. 14; Gaz. vol. 221; p. 687.
- Nut, Lock-. W. F. Conroy. No. 1,143,508; June 15; Gaz. vol. 215; p. 924.
- Nut, Lock-. C. M. and J. Farthing. No. 1,148,370; July 27; Gaz. vol. 216; p. 1259.
- Nut, Lock-. H. W. Jenner. No. 1,150,197; Aug. 17; Gaz. vol. 217; p. 777.
- Nut, Lock-. L. A. Jennings. No. 1,132,521; Mar. 16; Gaz. vol. 212; p. 1013.
- Nut, Lock-. S. C. Lindsay. No. 1,134,393; Apr. 6; Gaz. vol. 213; p. 113.
- Nut, Lock-. E. E. Maher. No. 1,165,797; Dec. 28; Gaz. vol. 221; p. 1196.
- Nut, Lock-. T. T. Mitchell. No. 1,155,949; Oct. 5; Gaz. vol. 219; p. 217.
- Nut, Lock-. E. B. Payne. No. 1,134,902; Apr. 6; Gaz. vol. 213; p. 293.
- Nut, Lock-. J. Pinto. No. 1,138,409; May 4; Gaz. vol. 214; p. 243.
- Nut, Lock-. F. W. Pohlman. No. 1,151,124; Aug. 24; Gaz. vol. 217; p. 1154.
- Nut, Lock-. B. D. Radcliffe. No. 1,143,229; June 15; Gaz. vol. 215; p. 829.
- Nut, Lock-. G. W. Rhoads and C. S. Small. No. 1,140,286; May 18; Gaz. vol. 214; p. 974.
- Nut, Lock-. A. Ryden and C. H. Stahl. No. 1,163,177; Dec. 7; Gaz. vol. 221; p. 155.
- Nut, Lock-. J. H. Shekleton. No. 1,130,851; Mar. 9; Gaz. vol. 212; p. 386.
- Nut, Lock-. M. Sherman. No. 1,157,596; Oct. 19; Gaz. vol. 219; p. 846.
- Nut, Lock-. O. H. Sleeper. No. 1,159,283; Nov. 2; Gaz. vol. 220; p. 303.
- Nut, Lock-. H. E. Taft. (Reissue.) No. 13,867; Jan. 12; Gaz. vol. 210; p. 690.
- Nut, Lock-. J. M. Thompson. No. 1,159,131; Nov. 2; Gaz. vol. 220; p. 249.
- Nut, Lock-. I. C. Woodward. No. 1,137,941; May 4; Gaz. vol. 214; p. 76.
- Nut-lock. W. H. Anderson. No. 1,162,543; Nov. 30; Gaz. vol. 220; p. 1629.
- Nut-lock. R. E. Barb. No. 1,147,595; July 20; Gaz. vol. 216; p. 957.
- Nut-lock. E. T. Bates. No. 1,143,247; June 15; Gaz. vol. 215; p. 835.

Alphabetical list of inventions—Continued.

- Nut-lock. C. Besser. No. 1,158,163; Oct. 26; Gaz. vol. 219; p. 1111.
- Nut-lock. E. Best. No. 1,163,064; Dec. 7; Gaz. vol. 221; p. 115.
- Nut-lock. J. M. Bong. No. 1,149,329; Aug. 10; Gaz. vol. 217; p. 404.
- Nut-lock. W. E. Boren. No. 1,128,748; Feb. 16; Gaz. vol. 211; p. 816.
- Nut-lock. D. J. Blocher. No. 1,134,666; Apr. 6; Gaz. vol. 213; p. 213.
- Nut-lock. A. E. Bright. No. 1,129,787; Feb. 23; Gaz. vol. 211; p. 1214.
- Nut-lock. W. Caldwell. No. 1,127,586; Feb. 9; Gaz. vol. 211; p. 362.
- Nut-lock. M. P. Carpenter. No. 1,154,691; Sept. 28; Gaz. vol. 218; p. 917.
- Nut-lock. S. F. Carrico and S. Gericke. No. 1,128,104; Feb. 9; Gaz. vol. 211; p. 546.
- Nut-lock. D. T. Casale. No. 1,129,955; Mar. 2; Gaz. vol. 212; p. 42.
- Nut-lock. L. G. Channell. No. 1,140,876; May. 25; Gaz. vol. 214; p. 1217.
- Nut-lock. J. Y. Clymer and M. L. Heller. No. 1,142,308; June 8; Gaz. vol. 215; p. 465.
- Nut-lock. E. M. Conrad. No. 1,132,073; Mar. 16; Gaz. vol. 212; p. 849.
- Nut-lock. J. H. Cotton. No. 1,157,678; Oct. 26; Gaz. vol. 219; p. 941.
- Nut-lock. M. G. Cowherd. No. 1,151,000; Aug. 24; Gaz. vol. 217; p. 1113.
- Nut-lock. T. R. Crick. No. 1,165,391; Dec. 28; Gaz. vol. 221; p. 1053.
- Nut-lock. T. D. Dallmeyer. No. 1,130,712; Mar. 9; Gaz. vol. 212; p. 338.
- Nut-lock. J. M. Davis. No. 1,143,254; June 15; Gaz. vol. 215; p. 838.
- Nut-lock. G. W. Deise. No. 1,160,389; Nov. 16; Gaz. vol. 220; p. 780.
- Nut-lock. A. Dillon. No. 1,134,596; Apr. 6; Gaz. vol. 213; p. 187.
- Nut-lock. E. A. Doty. No. 1,133,843; Mar. 30; Gaz. vol. 212; p. 1575.
- Nut-lock. J. V. Duckett. No. 1,153,898; Sept. 21; Gaz. vol. 218; p. 616.
- Nut-lock. G. H. Duke. No. 1,156,279; Oct. 12; Gaz. vol. 219; p. 354.
- Nut-lock. M. Dyba. No. 1,134,520; Apr. 6; Gaz. vol. 213; p. 160.
- Nut-lock. W. Edson. No. 1,155,408; Oct. 5; Gaz. vol. 219; p. 29.
- Nut-lock. W. Edson. No. 1,165,955; Dec. 28; Gaz. vol. 221; p. 1249.
- Nut-lock. D. F. Fassett. No. 1,156,593; Oct. 12; Gaz. vol. 219; p. 466.
- Nut-lock. F. A. Febrenz. No. 1,144,645; June 29; Gaz. vol. 215; p. 1370.
- Nut-lock. G. W. Fenstermaker. No. 1,136,416; Apr. 20; Gaz. vol. 213; p. 910.
- Nut-lock. W. E. Finkbeiner. No. 1,161,647; Nov. 23; Gaz. vol. 220; p. 1271.
- Nut-lock. J. R. Formby. No. 1,140,974; May 25; Gaz. vol. 214; p. 1252.
- Nut-lock. C. W. Fox and J. L. Cypher. No. 1,144,833; June 29; Gaz. vol. 215; p. 1436.
- Nut-lock. L. R. Galley. No. 1,161,651; Nov. 23; Gaz. vol. 220; p. 1272.
- Nut-lock. A. O. Gardiner. No. 1,164,494; Dec. 14; Gaz. vol. 221; p. 661.
- Nut-lock. J. G. Garland. No. 1,131,053; Mar. 9; Gaz. vol. 212; p. 455.
- Nut-lock. H. Gerlitzki and C. C. Emick. No. 1,151,779; Aug. 31; Gaz. vol. 217; p. 1424.
- Nut-lock. J. R. Glynn. No. 1,139,029; May 11; Gaz. vol. 214; p. 500.
- Nut-lock. F. Goff. No. 1,130,810; Mar. 9; Gaz. vol. 212; p. 372.
- Nut-lock. W. C. Goss. No. 1,149,043; Aug. 3; Gaz. vol. 217; p. 197.
- Nut-lock. A. C. Griffing. No. 1,163,403; Dec. 7; Gaz. vol. 221; p. 234.
- Nut-lock. R. O. Hammond. No. 1,155,233; Sept. 28; Gaz. vol. 218; p. 1100.
- Nut-lock. F. A. Harris. No. 1,140,902; May 25; Gaz. vol. 214; p. 1227.
- Nut-lock. J. H. Harvey. No. 1,144,979; June 29; Gaz. vol. 215; p. 1485.
- Nut-lock. C. S. Hascall. No. 1,150,362; Aug. 17; Gaz. vol. 217; p. 835.
- Nut-lock. C. G. Hawley. No. 1,154,698; Sept. 28; Gaz. vol. 218; p. 919.
- Nut-lock. A. Hella. No. 1,140,037; May 18; Gaz. vol. 214; p. 890.
- Nut-lock. H. A. Herzberg. No. 1,123,531; Jan. 5; Gaz. vol. 210; p. 115.
- Nut-lock. G. L. Hieronymus. No. 1,155,356; Oct. 5; Gaz. vol. 219; p. 11.
- Nut-lock. D. Hill. No. 1,135,899; Apr. 13; Gaz. vol. 213; p. 686.
- Nut-lock. A. E. Holmes. No. 1,145,991; July 13; Gaz. vol. 216; p. 375.
- Nut-lock. J. H. Horn. No. 1,135,284; Apr. 13; Gaz. vol. 213; p. 469.
- Nut-lock. G. E. Howe. No. 1,140,594; May 25; Gaz. vol. 214; p. 1119.
- Nut-lock. M. J. Jeannot. No. 1,145,486; July 6; Gaz. vol. 216; p. 179.
- Nut-lock. H. J. Johnson and J. A. Mosal. No. 1,136,234; Apr. 20; Gaz. vol. 213; p. 843.
- Nut-lock. L. D. Johnson. No. 1,134,274; Apr. 6; Gaz. vol. 213; p. 70.
- Nut-lock. S. L. Johnson. No. 1,132,352; Mar. 16; Gaz. vol. 212; p. 951.
- Nut-lock. M. J. Jones. No. 1,128,607; Feb. 16; Gaz. vol. 211; p. 768.
- Nut-lock. R. W. Judick. No. 1,126,225; Jan. 26; Gaz. vol. 210; p. 1184.
- Nut-lock. A. A. King. No. 1,139,191; May 11; Gaz. vol. 214; p. 556.
- Nut-lock. W. Klettke. No. 1,157,230; Oct. 19; Gaz. vol. 219; p. 721.
- Nut-lock. W. H. Klink and J. C. Green. No. 1,155,935; Oct. 5; Gaz. vol. 219; p. 212.
- Nut-lock. W. Klotz. No. 1,160,905; Nov. 16; Gaz. vol. 220; p. 965.
- Nut-lock. F. Kotraba. No. 1,150,770; Aug. 17; Gaz. vol. 217; p. 975.
- Nut-lock. W. S. Lail. No. 1,139,196; May 11; Gaz. vol. 214; p. 558.
- Nut-lock. H. Landua. No. 1,157,007; Oct. 19; Gaz. vol. 219; p. 642.
- Nut-lock. J. U. Lanier and J. W. Newsom. No. 1,132,193; Mar. 16; Gaz. vol. 212; p. 892.
- Nut-lock. J. R. Leeming. No. 1,128,335; Feb. 16; Gaz. vol. 211; p. 676.
- Nut-lock. L. A. Lines. No. 1,142,899; June 15; Gaz. vol. 215; p. 711.
- Nut-lock. P. A. Logan. No. 1,127,654; Feb. 9; Gaz. vol. 211; p. 384.
- Nut-lock. C. H. Loutrel. No. 1,135,597; Apr. 13; Gaz. vol. 213; p. 579.
- Nut-lock. W. F. Ludwick. No. 1,140,468; May 25; Gaz. vol. 214; p. 1076.
- Nut-lock. W. Macdonald. No. 1,148,848; Aug. 3; Gaz. vol. 217; p. 131.
- Nut-lock. J. K. Major. No. 1,142,345; June 8; Gaz. vol. 215; p. 479.
- Nut-lock. L. S. Maxson. No. 1,161,499; Nov. 23; Gaz. vol. 220; p. 1221.
- Nut-lock. R. T. McClure. No. 1,140,272; May 18; Gaz. vol. 214; p. 970.
- Nut-lock. W. O. Millikin. No. 1,156,243; Oct. 12; Gaz. vol. 219; p. 343.
- Nut-lock. W. O. Millikin. No. 1,157,999; Oct. 26; Gaz. vol. 219; p. 1052.
- Nut-lock. H. Moerbe. No. 1,158,260; Oct. 26; Gaz. vol. 219; p. 1144.
- Nut-lock. F. J. Mullen. No. 1,124,056; Jan. 5; Gaz. vol. 210; p. 291.
- Nut-lock. A. E. Myers. No. 1,139,897; May 18; Gaz. vol. 214; p. 839.
- Nut-lock. C. O. Myers and H. T. Maring. No. 1,142,607; June 8; Gaz. vol. 215; p. 570.
- Nut-lock. C. O. Myers and H. T. Maring. No. 1,165,800; Dec. 28; Gaz. vol. 221; p. 1196.
- Nut-lock. R. E. Norris. No. 1,129,896; Mar. 2; Gaz. vol. 212; p. 22.
- Nut-lock. J. E. North, J. H. McCauley, and J. G. Bytheway. No. 1,134,896; Apr. 6; Gaz. vol. 213; p. 291.
- Nut-lock. F. J. Pardini. No. 1,126,847; Feb. 2; Gaz. vol. 211; p. 66.
- Nut-lock. J. L. Patterson. No. 1,134,408; Apr. 6; Gaz. vol. 213; p. 118.
- Nut-lock. R. R. Powers. No. 1,134,006; Mar. 30; Gaz. vol. 212; p. 1626.
- Nut-lock. J. Pursselley. No. 1,139,225; May 11; Gaz. vol. 214; p. 566.
- Nut-lock. W. E. Raeburn. No. 1,128,186; Feb. 9; Gaz. vol. 211; p. 574.
- Nut-lock. M. J. Reilly. No. 1,131,085; Mar. 9; Gaz. vol. 212; p. 466.
- Nut-lock. J. P. Remington. No. 1,161,008; Nov. 16; Gaz. vol. 220; p. 1001.
- Nut-lock. H. P. Renner. No. 1,166,259; Dec. 28; Gaz. vol. 221; p. 1362.
- Nut-lock. R. W. Rider. No. 1,146,101; July 13; Gaz. vol. 216; p. 414.
- Nut-lock. J. C. Robinson and J. Andrews. No. 1,141,007; May 25; Gaz. vol. 214; p. 1263.
- Nut-lock. J. W. Rose and C. A. Fox. No. 1,136,486; Apr. 20; Gaz. vol. 213; p. 935.
- Nut-lock. C. F. Schwab. No. 1,138,898; May 11; Gaz. vol. 214; p. 451.
- Nut-lock. G. T. Segee. No. 1,153,347; Sept. 14; Gaz. vol. 218; p. 386.
- Nut-lock. C. H. Sellers. No. 1,154,813; Sept. 28; Gaz. vol. 218; p. 957.
- Nut-lock. J. E. Shinn. No. 1,157,814; Oct. 26; Gaz. vol. 219; p. 987.
- Nut-lock. R. C. Showalter. No. 1,143,450; June 15; Gaz. vol. 215; p. 906.
- Nut-lock. O. H. Sleeper. No. 1,156,105; Oct. 12; Gaz. vol. 219; p. 298.
- Nut-lock. A. E. Smith. No. 1,155,844; Oct. 5; Gaz. vol. 219; p. 182.

Alphabetical list of inventions—Continued.

- Nut-lock. J. Smith. No. 1,139,819; May 18; Gaz. vol. 214; p. 812.
- Nut-lock. O. C. Sparks. No. 1,142,464; June 8; Gaz. vol. 215; p. 523.
- Nut-lock. A. Spatz. No. 1,155,286; Sept. 28; Gaz. vol. 218; p. 1116.
- Nut-lock. E. Stock. No. 1,129,753; Feb. 23; Gaz. vol. 211; p. 1201.
- Nut-lock. A. C. Stopp. No. 1,124,355; Jan. 12; Gaz. vol. 210; p. 446.
- Nut-lock. B. Tabkins. No. 1,146,667; July 13; Gaz. vol. 216; p. 613.
- Nut-lock. E. R. Talley. No. 1,159,618; Nov. 9; Gaz. vol. 220; p. 455.
- Nut-lock. J. M. Tanner. No. 1,153,649; Sept. 14; Gaz. vol. 218; p. 493.
- Nut-lock. E. W. Taylor. (Reissue.) No. 13,986; Sept. 21; Gaz. vol. 218; p. 857.
- Nut-lock. W. P. Thomson. No. 1,147,568; July 20; Gaz. vol. 216; p. 947.
- Nut-lock. S. T. Umberger. No. 1,145,100; July 6; Gaz. vol. 216; p. 46.
- Nut-lock. J. W. Van Zile. No. 1,158,340; Oct. 26; Gaz. vol. 219; p. 1172.
- Nut-lock. E. A. Wall. No. 1,151,632; Aug. 31; Gaz. vol. 217; p. 1374.
- Nut-lock. J. M. Ward. No. 1,162,531; Nov. 30; Gaz. vol. 220; p. 1626.
- Nut-lock. C. H. Willison. No. 1,127,559; Feb. 9; Gaz. vol. 211; p. 353.
- Nut-lock. C. H. Willison. No. 1,137,042; Apr. 27; Gaz. vol. 213; p. 1168.
- Nut-lock. J. H. Wines. No. 1,155,858; Oct. 5; Gaz. vol. 219; p. 187.
- Nut-lock. E. Woodings. No. 1,146,380; July 13; Gaz. vol. 216; p. 511.
- Nut-lock and washer. S. Leschziner. No. 1,156,016; Oct. 5; Gaz. vol. 219; p. 240.
- Nut-lock and washer, Combination. W. C. Buck. No. 1,142,018; June 8; Gaz. vol. 215; p. 365.
- Nut lock, Multiple. D. G. Morgan. No. 1,142,192; June 8; Gaz. vol. 215; p. 426.
- Nut-lock, Safety. J. W. De Camp. No. 1,158,454; Nov. 2; Gaz. vol. 220; p. 15.
- Nut, Locking. H. P. Ellers. No. 1,123,505; Jan. 5; Gaz. vol. 210; p. 106.
- Nut-locking appliance. G. W. Watts. No. 1,142,647; June 8; Gaz. vol. 215; p. 584.
- Nut-locking device. H. Hardisty. No. 1,141,334; June 1; Gaz. vol. 215; p. 88.
- Nut-locking device. A. E. Lotstrom. No. 1,138,878; May 11; Gaz. vol. 214; p. 445.
- Nut-locking device. F. G. Neal. No. 1,144,493; June 29; Gaz. vol. 215; p. 1319.
- Nut-locking device for air-compressors. N. T. Cline. No. 1,133,537; Mar. 30; Gaz. vol. 212; p. 1465.
- Nut-locking washer. T. W. Crozier. No. 1,150,745; Aug. 17; Gaz. vol. 217; p. 967.
- Nut-locking washer. C. E. Bushyeager. No. 1,162,566; Nov. 30; Gaz. vol. 220; p. 1636.
- Nut-machine. J. J. Grant. No. 1,127,754; Feb. 9; Gaz. vol. 211; p. 421.
- Nut-making machine. W. J. Schmidt. No. 1,158,864; Nov. 2; Gaz. vol. 220; p. 160.
- Nut-making machine. W. L. Ward, H. D. Remsen, and E. C. Boerner. No. 1,128,641; Feb. 16; Gaz. vol. 211; p. 780.
- Nut or bolt lock. B. W. Layton. No. 1,149,454; Aug. 10; Gaz. vol. 217; p. 447.
- Nut plate, Lock. R. A. Jackson. No. 1,125,545; Jan. 19; Gaz. vol. 210; p. 905.
- Nut-protector. S. Baruch. No. 1,154,960; Sept. 28; Gaz. vol. 218; p. 1007.
- Nut, Self-locking. T. M. Daniels. No. 1,130,481; Mar. 2; Gaz. vol. 212; p. 225.
- Nut, Self-locking. T. M. Daniels. No. 154,478; Dec. 14; Gaz. vol. 221; p. 655.
- Nut, Self-locking. J. J. Snyder. No. 1,141,280; June 1; Gaz. vol. 215; p. 68.
- Nut sheller and separator. D. B. Williams. No. 1,157,199; Oct. 19; Gaz. vol. 219; p. 710.
- Nut-shelling machine. J. Grimm. No. 1,149,194; Aug. 10; Gaz. vol. 217; p. 353.
- Nut-splitting tool. J. D. Brady. No. 1,156,745; Oct. 12; Gaz. vol. 219; p. 520.
- Nut-tapping machine. H. Crehan. No. 1,149,553; Aug. 10; Gaz. vol. 217; p. 482.
- Nut-tapping machine. T. M. Daniels and J. C. Holschemacher. No. 1,141,779; June 1; Gaz. vol. 215; p. 243.
- Nut-tapping machine. W. D. Rigney. No. 1,147,267; July 20; Gaz. vol. 216; p. 841.
- Nut-tapping machine. R. H. Smith. No. 1,138,901; May 11; Gaz. vol. 214; p. 452.
- Nut-tapping machine. W. L. Ward and G. M. Rudd. No. 1,130,123; Mar. 2; Gaz. vol. 212; p. 98.
- Nut-tightening device. G. C. Farkell. No. 1,131,225; Mar. 9; Gaz. vol. 212; p. 514.
- Nut-wrench. W. L. Bessolo. No. 1,157,495; Oct. 19; Gaz. vol. 219; p. 815.
- Nuts and the like, Locking device for. E. Bolton. No. 1,124,388; Jan. 12; Gaz. vol. 210; p. 457.
- Nuts and the like, Making. H. G. Carlson. No. 1,156,973; Oct. 19; Gaz. vol. 219; p. 630.
- Nuts, Forming bolt. W. E. Sharp. No. 1,154,134; Sept. 21; Gaz. vol. 218; p. 696.
- Nuts, screw-caps, and similar articles, Making screw. E. W. Coffin. No. 1,127,186; Feb. 2; Gaz. vol. 211; p. 184.
- Nutcracker. W. H. Bagby. No. 1,146,683; July 13; Gaz. vol. 216; p. 618.
- Nutcracker. L. Costa. No. 1,123,352; Jan. 5; Gaz. vol. 210; p. 223.
- Nutcracker. E. D. Ekstedt. No. 1,148,893; Aug. 3; Gaz. vol. 217; p. 145.
- Nutcracker. J. M. Harper. No. 1,134,265; Apr. 6; Gaz. vol. 213; p. 67.
- Nutcracker. J. Kittrell. No. 1,153,433; Sept. 14; Gaz. vol. 218; p. 417.
- Nutcracker. W. O. McDaniel. No. 1,151,110; Aug. 24; Gaz. vol. 217; p. 1149.
- Nutcracker. G. K. McEwen. No. 1,129,213; Feb. 23; Gaz. vol. 211; p. 1016.
- Nutritive preparation. H. Watkins-Pitchford. No. 1,165,925; Dec. 28; Gaz. vol. 221; p. 1238.
- Oar. M. W. Bridges. No. 1,146,841; July 20; Gaz. vol. 216; p. 693.
- Oar, Bow-facing. V. Bensen. No. 1,133,220; Mar. 23; Gaz. vol. 212; p. 1315.
- Oar-lock. C. B. Malchow. No. 1,145,156; July 6; Gaz. vol. 216; p. 64.
- Oar-lock. C. L. Rathbone. No. 1,155,275; Sept. 28; Gaz. vol. 218; p. 1113.
- Oar, Motor. E. Burroughs. No. 1,138,078; May 4; Gaz. vol. 214; p. 126.
- Oats separator, Wild. J. A., M. J., and L. J. Aasheim. No. 1,164,052; Dec. 14; Gaz. vol. 221; p. 507.
- Object-finders, Attachment for. H. C. Lawson. No. 1,146,887; July 20; Gaz. vol. 216; p. 709.
- Observation apparatus. J. De Falco. No. 1,157,154; Oct. 19; Gaz. vol. 219; p. 694.
- Observation apparatus. G. T. Fielding. No. 1,166,343; Dec. 28; Gaz. vol. 221; p. 1390.
- Observation-glass. H. H. Styll. No. 1,161,995; Nov. 30; Gaz. vol. 220; p. 1439.
- Observation instrument. A. P. Hartmann. No. 1,134,610; Apr. 6; Gaz. vol. 213; p. 192.
- Obstetrical and holding tool. G. Hudwell and W. F. McNew. No. 1,123,286; Jan. 5; Gaz. vol. 210; p. 29.
- Obstetrical tractor. H. Hanson. No. 1,151,533; Aug. 31; Gaz. vol. 217; p. 1357.
- Ocular. A. König. No. 1,159,233; Nov. 2; Gaz. vol. 220; p. 287.
- Odometer. H. P. C. Browne. No. 1,157,365; Oct. 19; Gaz. vol. 219; p. 769.
- Odometer. A. W. Wessoleck. No. 1,140,426; May 25; Gaz. vol. 214; p. 1059.
- Odometer, Recording. J. K. Stewart. No. 1,132,885; Mar. 23; Gaz. vol. 212; p. 1194.
- Oil and gas separator. R. E. Beckley. No. 1,127,722; Feb. 9; Gaz. vol. 211; p. 410.
- Oil and gas separator. A. B. Cogswell. No. 1,150,342; Aug. 17; Gaz. vol. 217; p. 828.
- Oil and the like, Detoxicating. C. Ellis. No. 1,132,710; Mar. 23; Gaz. vol. 212; p. 1129.
- Oil and water burner. E. A. Hornbostel and J. Carey. No. 1,154,019; Sept. 21; Gaz. vol. 218; p. 657.
- Oil, Apparatus for dehydrating petroleum. R. E. Laird and J. H. Raney. No. 1,142,761; June 8; Gaz. vol. 215; p. 622.
- Oil-burner. J. Beckwith. No. 1,155,873; Oct. 5; Gaz. vol. 219; p. 192.
- Oil-burner. J. R. Carr. No. 1,157,758; Oct. 26; Gaz. vol. 219; p. 969.
- Oil-burner. R. Chance. No. 1,152,293; Aug. 31; Gaz. vol. 217; p. 1602.
- Oil-burner. E. S. Cook. No. 1,126,711; Feb. 2; Gaz. vol. 211; p. 15.
- Oil-burner. J. B. Cowper. No. 1,144,816; June 29; Gaz. vol. 215; p. 1431.
- Oil-burner. T. J. Crook. No. 1,147,610; July 20; Gaz. vol. 216; p. 963.
- Oil-burner. O. L. Day. No. 1,131,916; Mar. 16; Gaz. vol. 212; p. 792.
- Oil-burner. J. Ditson. No. 1,154,101; Sept. 21; Gaz. vol. 218; p. 685.
- Oil-burner. A. W. Fischer. No. 1,151,258; Aug. 24; Gaz. vol. 217; p. 1201.
- Oil-burner. W. H. Frost. No. 1,136,115; Apr. 20; Gaz. vol. 213; p. 800.
- Oil-burner. W. H. Hackmann. No. 1,132,471; Mar. 16; Gaz. vol. 212; p. 993.
- Oil-burner. C. M. Heinsen. No. 1,160,404; Nov. 16; Gaz. vol. 220; p. 785.
- Oil-burner. D. T. Hoch. No. 1,128,783; Feb. 16; Gaz. vol. 211; p. 829.
- Oil-burner. W. H. Hope. No. 1,128,311; Feb. 16; Gaz. vol. 211; p. 668.
- Oil-burner. W. R. Jeavons and A. R. Whittaker. No. 1,143,199; June 15; Gaz. vol. 215; p. 818.
- Oil-burner. E. T. Johnson and G. A. Lee. No. 1,164,525; Dec. 14; Gaz. vol. 221; p. 672.
- Oil-burner. D. Jordan. No. 1,144,361; June 29; Gaz. vol. 215; p. 1275.

Alphabetical list of inventions—Continued.

- Oil-burner. F. M. Mahan. No. 1,146,006; July 13; Gaz. vol. 216; p. 380.
- Oil-burner. J. S. McKaig. No. 1,149,932; Aug. 10; Gaz. vol. 217; p. 621.
- Oil-burner. W. Melas. No. 1,144,719; June 29; Gaz. vol. 215; p. 1397.
- Oil-burner. C. W. Mummery. No. 1,160,314; Nov. 16; Gaz. vol. 220; p. 754.
- Oil-burner. A. Papillon. No. 1,130,194; Mar. 2; Gaz. vol. 212; p. 123.
- Oil-burner. D. B. Pate. No. 1,130,761; Mar. 9; Gaz. vol. 212; p. 355.
- Oil-burner. S. Perry and C. A. Kenworthy. No. 1,145,437; July 6; Gaz. vol. 216; p. 161.
- Oil-burner. J. Schurs. No. 1,150,461; Aug. 17; Gaz. vol. 217; p. 868.
- Oil-burner. H. F. Sharp. No. 1,132,801; Mar. 23; Gaz. vol. 212; p. 1165.
- Oil-burner. A. D. Smith. No. 1,133,238; Mar. 23; Gaz. vol. 212; p. 1320.
- Oil-burner. F. W. Smith. No. 1,157,332; Oct. 19; Gaz. vol. 219; p. 758.
- Oil-burner. L. Stockstrom. No. 1,154,452; Sept. 21; Gaz. vol. 218; p. 806.
- Oil-burner. A. O. Tesch. No. 1,139,922; May 18; Gaz. vol. 214; p. 848.
- Oil-burner. T. Turnbull, Jr. No. 1,165,468; Dec. 28; Gaz. vol. 221; p. 1079.
- Oil-burner. L. A. Ungles. No. 1,154,221; Sept. 21; Gaz. vol. 218; p. 725.
- Oil-burner. E. B. Valot. No. 1,136,185; Apr. 20; Gaz. vol. 213; p. 826.
- Oil-burner. J. H. Veach. No. 1,147,661; July 20; Gaz. vol. 216; p. 981.
- Oil-burner. W. Wilson. No. 1,123,970; Jan. 5; Gaz. vol. 210; p. 262.
- Oil-burner. G. E. Witt. No. 1,162,120; Nov. 30; Gaz. vol. 220; p. 1485.
- Oil-burner. J. F. Wright and G. W. Tamsitt. No. 1,158,616; Nov. 2; Gaz. vol. 220; p. 73.
- Oil-burner and steam-generator, Combined. A. D. Marcotte. No. 1,144,221; June 22; Gaz. vol. 215; p. 1199.
- Oil-burner, Blue-flame. R. Hoffman. No. 1,154,637; Sept. 28; Gaz. vol. 218; p. 898.
- Oil-burner, Blue-flame wick. H. Ruppel. No. 1,159,101; Nov. 2; Gaz. vol. 220; p. 239.
- Oil burner, Crude-. D. F. Felten. No. 1,158,668; Nov. 2; Gaz. vol. 220; p. 92.
- Oil burner, Crude-. J. C. McClure. No. 1,158,523; Nov. 2; Gaz. vol. 220; p. 40.
- Oil burner, Crude-. J. S. Patrick. No. 1,149,404; Aug. 10; Gaz. vol. 217; p. 430.
- Oil burner, Crude-. E. N. Shaw. No. 1,127,815; Feb. 9; Gaz. vol. 211; p. 445.
- Oil burner, Crude-. E. D. Varnum. No. 1,143,923; June 22; Gaz. vol. 215; p. 1090.
- Oil burner, Crude-. C. Wirth. No. 1,138,165; May 4; Gaz. vol. 214; p. 156.
- Oil-burner, Equalizing. W. Melas. No. 1,160,929; Nov. 16; Gaz. vol. 220; p. 973.
- Oil-burner feed control. J. W. Knopp. No. 1,158,931; Nov. 2; Gaz. vol. 220; p. 183.
- Oil-burner for heating. J. E. Naudain. No. 1,124,789; Jan. 12; Gaz. vol. 210; p. 601.
- Oil burner, Fuel-. L. H. David. No. 1,131,480; Mar. 9; Gaz. vol. 212; p. 603.
- Oil burner, Fuel-. R. T. Earle. No. 1,124,399; Jan. 12; Gaz. vol. 210; p. 460.
- Oil burner, Fuel-. J. H. Kramer. No. 1,160,515; Nov. 16; Gaz. vol. 220; p. 825.
- Oil burner, Fuel-. E. J. Nolan. No. 1,158,541; Nov. 2; Gaz. vol. 220; p. 47.
- Oil-burner tip. B. L. Cornelius. No. 1,133,711; Mar. 30; Gaz. vol. 212; p. 1529.
- Oil-burner torch. F. W. Kellermann. No. 1,157,549; Oct. 19; Gaz. vol. 219; p. 833.
- Oil-burner, Twin. A. J. Morton. No. 1,159,249; Nov. 2; Gaz. vol. 220; p. 292.
- Oil-burning apparatus, Fuel-. E. W. Tucker. No. 1,136,849; Apr. 20; Gaz. vol. 213; p. 1063.
- Oil-burning furnace. T. W. Heintzelman and J. G. Camp. No. 1,128,444; Feb. 16; Gaz. vol. 211; p. 712.
- Oil-burning furnace. J. P. Walsh. No. 1,151,311; Aug. 24; Gaz. vol. 217; p. 1218.
- Oil-burning mechanism. P. G. Nesser. No. 1,151,899; Aug. 31; Gaz. vol. 217; p. 1467.
- Oil-cake feeder. J. G. McFarland. No. 1,129,880; Mar. 2; Gaz. vol. 212; p. 17.
- Oil-can. H. Carr, Jr. No. 1,135,156; Apr. 13; Gaz. vol. 213; p. 427.
- Oil-can. J. W. Cowell. No. 1,152,709; Sept. 7; Gaz. vol. 218; p. 121.
- Oil-can. H. Jones. No. 1,165,511; Dec. 28; Gaz. vol. 221; p. 1094.
- Oil-can. O. R. Rydquist. No. 1,138,794; May 11; Gaz. vol. 214; p. 416.
- Oil-can, Non-spillable. W. J. Matthews. No. 1,145,252; July 6; Gaz. vol. 216; p. 97.
- Oil-can, Safety. A. L. Hansen. No. 1,140,034; May 18; Gaz. vol. 214; p. 888.
- Oil-cloth-machine attachment. E. Wieser. No. 1,156,195; Oct. 12; Gaz. vol. 219; p. 327.
- Oil-cloth rack. H. W. Gehl. No. 1,148,895; Aug. 3; Gaz. vol. 217; p. 145.
- Oil-cloth stand. J. L. Mueller. No. 1,144,229; June 22; Gaz. vol. 215; p. 1201.
- Oil, Composite lubricating-. W. T. Rice. No. 1,163,856; Dec. 14; Gaz. vol. 221; p. 439.
- Oil connection, Engine. W. L. Morris. No. 1,157,894; Oct. 26; Gaz. vol. 219; p. 1017.
- Oil-container. J. Duff. No. 1,149,506; Aug. 10; Gaz. vol. 217; p. 465.
- Oil-containing tanks against ignition by electrical discharge, Means for protecting contents of. W. Dodd. No. 1,155,648; Oct. 5; Gaz. vol. 219; p. 112.
- Oil-cup. C. Barnes. No. 1,160,236; Nov. 16; Gaz. vol. 220; p. 727.
- Oil-cup. L. C. Dutro. No. 1,162,586; Nov. 30; Gaz. vol. 220; p. 1642.
- Oil-cup. A. Hirsh. No. 1,165,333; Dec. 21; Gaz. vol. 221; p. 993.
- Oil-cup. A. Hirsh. No. 1,165,334; Dec. 21; Gaz. vol. 221; p. 993.
- Oil-cup, automatic. C. J. Woerner and A. M. Hunt. No. 1,157,354; Oct. 19; Gaz. vol. 219; p. 764.
- Oil-cup, Self-closing. D. H. Twaits. No. 1,156,114; Oct. 12; Gaz. vol. 219; p. 301.
- Oil-delivery tank. T. W. Skelton. No. 1,153,394; Oct. 26; Gaz. vol. 219; p. 1192.
- Oil-drip-return system. W. L. Morris. No. 1,141,649; June 1; Gaz. vol. 215; p. 200.
- Oil-drying apparatus. W. P. Bending. No. 1,144,522; June 29; Gaz. vol. 215; p. 1329.
- Oil-engine. J. W. Cross. No. 1,128,108; Feb. 9; Gaz. vol. 211; p. 547.
- Oil-engine. E. H. Crossen. No. 1,148,577; Aug. 3; Gaz. vol. 217; p. 34.
- Oil-engine. F. G. Hobart and C. B. Jahnke. No. 1,159,341; Nov. 2; Gaz. vol. 220; p. 324.
- Oil-engine. H. T. Raser. No. 1,163,604; Dec. 7; Gaz. vol. 221; p. 304.
- Oil-expressing apparatus. A. W. French. No. 1,158,797; Nov. 2; Gaz. vol. 220; p. 136.
- Oil-extracting machine. A. S. Kirshner. No. 1,151,798; Aug. 31; Gaz. vol. 217; p. 1432.
- Oil extraction from seed-kernels. W. M. Neale. No. 1,164,383; Dec. 14; Gaz. vol. 221; p. 622.
- Oil-feed for motor-cars, Automatic. G. Andrew, C. H. Slocombe, and H. H. Kingham. No. 1,155,168; Sept. 28; Gaz. vol. 218; p. 1080.
- Oil-feeding device, Automatic. A. S. Vogt. No. 1,141,733; June 1; Gaz. vol. 215; p. 229.
- Oil, Flavoring. N. Sulzberger. No. 1,127,545; Feb. 9; Gaz. vol. 211; p. 348.
- Oil from exhaust-steam, Apparatus for reclaiming. M. Collins. No. 1,140,118; May 18; Gaz. vol. 214; p. 918.
- Oil from oil-wells, Apparatus for flowing. F. B. Jackson. No. 1,151,882; Aug. 31; Gaz. vol. 217; p. 1461.
- Oil from wells, Apparatus for preventing the emulsification of. J. E. Reynolds. No. 1,157,902; Oct. 26; Gaz. vol. 219; p. 1019.
- Oil from wells, Preventing the emulsification of. J. E. Reynolds. No. 1,157,903; Oct. 26; Gaz. vol. 219; p. 1020.
- Oil-fuel burner. C. G. M. Bennett and S. H. Smith. No. 1,144,021; June 22; Gaz. vol. 215; p. 1126.
- Oil-gage, Automatic. W. V. Herb and G. A. King. No. 1,163,919; Dec. 14; Gaz. vol. 221; p. 459.
- Oil-heater. S. Vannatta. No. 1,140,780; May 25; Gaz. vol. 214; p. 1181.
- Oil-hole cover. C. F. Tucker. No. 1,134,025; Mar. 30; Gaz. vol. 212; p. 1634.
- Oil, Hydrating. F. W. McNear and P. E. Bowles, Jr. No. 1,158,253; Oct. 26; Gaz. vol. 219; p. 1141.
- Oil, Machine for cleaning crude fuel-. M. Willemstyn. No. 1,150,086; Aug. 17; Gaz. vol. 217; p. 736.
- Oil, Manufacturing pure resin-. M. Melamid. No. 1,131,939; Mar. 16; Gaz. vol. 212; p. 800.
- Oil mills, Separator for cotton-seed-. F. Krebs. No. 1,131,845; Mar. 16; Gaz. vol. 212; p. 768.
- Oil preheater, Crude-. P. Porges. No. 1,144,780; June 29; Gaz. vol. 215; p. 1418.
- Oil, Preparing nitrogenous products from cod-liver. C. Funk. No. 1,162,907; Dec. 7; Gaz. vol. 221; p. 60.
- Oil-purifying apparatus. F. E. Corwin. No. 1,161,197; Nov. 23; Gaz. vol. 220; p. 1114.
- Oil-purifying apparatus. A. H. Franke. No. 1,142,512; June 8; Gaz. vol. 215; p. 540.
- Oil-refining apparatus. W. C. McElheny. No. 1,142,826; June 15; Gaz. vol. 215; p. 685.
- Oil-saver. C. F. Rigby. No. 1,152,548; Sept. 7; Gaz. vol. 218; p. 62.
- Oil-saver. C. F. Rigby. No. 1,152,549; Sept. 7; Gaz. vol. 218; p. 62.
- Oil-separator. H. K. Hughes. No. 1,131,243; Mar. 9; Gaz. vol. 212; p. 520.
- Oil separator and purifier. G. C. Rensink. No. 1,134,419; Apr. 6; Gaz. vol. 213; p. 121.
- Oil-separator column, Crude-. C. E. Sampson and W. Woods. No. 1,151,290; Aug. 24; Gaz. vol. 217; p. 1211.
- Oil-storage apparatus. A. A. Bowser. No. 1,160,106; Nov. 9; Gaz. vol. 220; p. 629.
- Oil-switch. L. Fleischmann and A. Elfes. No. 1,137,309; Apr. 27; Gaz. vol. 213; p. 1267.

Alphabetical list of inventions—Continued.

- Oil-switch. E. H. Jacobs. No. 1,133,032; Mar. 23; Gaz. vol. 212; p. 1250.
- Oil-switch. H. L. Van Valkenburg. No. 1,127,119; Feb. 2; Gaz. vol. 211; p. 161.
- Oil-switch, Removable-unit. G. A. Burnham. No. 1,165,843; Dec. 28; Gaz. vol. 221; p. 1210.
- Oil-tank. E. L. Maddox. No. 1,165,011; Dec. 21; Gaz. vol. 221; p. 881.
- Oil-tank. E. A. Wasson and F. M. Cooley. No. 1,128,202; Feb. 9; Gaz. vol. 211; p. 579.
- Oil-tank protector. J. W. Cunningham. No. 1,159,831; Nov. 9; Gaz. vol. 220; p. 533.
- Oil-tanks, Gas-exhauster for. O. J. Holmes. No. 1,136,230; Apr. 20; Gaz. vol. 213; p. 842.
- Oil to road-surfaces, Apparatus for applying. H. G. Knief. No. 1,138,489; May 4; Gaz. vol. 214; p. 270.
- Oil, Treating. J. A. Dubbs. No. 1,123,502; Jan. 5; Gaz. vol. 210; p. 105.
- Oil-treating composition. C. Ellis. No. 1,158,664; Nov. 2; Gaz. vol. 220; p. 90.
- Oil upon shafts or axles, Means for preventing the creeping of. C. A. Psilander. No. 1,124,658; Jan. 12; Gaz. vol. 210; p. 556.
- Oil-vaporizer. A. W. Butterfield. No. 1,129,845; Mar. 2; Gaz. vol. 212; p. 5.
- Oil-vaporizer. F. W. Schneider. No. 1,146,208; July 13; Gaz. vol. 216; p. 452.
- Oil vaporizer and mixer. A. Brodbeck. No. 1,148,440; July 27; Gaz. vol. 216; p. 1281.
- Oils and fats, Refining. O. C. Hagemann. No. 1,147,392; July 20; Gaz. vol. 216; p. 887.
- Oils and fats, Treating. W. P. M. Grellck. No. 1,144,539; June 29; Gaz. vol. 215; p. 1335.
- Oils and the like, Extracting. E. O. Barstow and T. Griswold, Jr. No. 1,125,920; Jan. 19; Gaz. vol. 210; p. 1039.
- Oils and the like, Manufacture of lubricating-. J. Rosen. No. 1,165,909; Dec. 28; Gaz. vol. 221; p. 1233.
- Oils contained in the product of oil-wells, &c., Retaining the lighter or more volatile. J. A. Snee. No. 1,165,458; Dec. 28; Gaz. vol. 221; p. 1076.
- Oils, Hardening. K. Birkeland and O. Devik. No. 1,125,259; Jan. 19; Gaz. vol. 210; p. 805.
- Oils, Hydrogenization of. G. Calvert. No. 1,142,668; June 8; Gaz. vol. 215; p. 591.
- Oils, Improving. A. M. McAfee. No. 1,127,465; Feb. 9; Gaz. vol. 211; p. 322.
- Oils, Manufacturing vegetable. E. Klein. No. 1,161,481; Nov. 23; Gaz. vol. 220; p. 1215.
- Oils or fats, Hydrogenating. W. D. Richardson. No. 1,151,045; Aug. 24; Gaz. vol. 217; p. 1128.
- Oils, Producing pure resin-. M. Melamid. No. 1,133,994; Mar. 30; Gaz. vol. 212; p. 1622.
- Oils, Refining. S. W. Whitmore. No. 1,125,422; Jan. 19; Gaz. vol. 210; p. 864.
- Oils, Refining animal and vegetable. C. Baskerville. No. 1,130,698; Mar. 9; Gaz. vol. 212; p. 334.
- Oils, Separator for splitting essential. F. Nunez. No. 1,125,590; Jan. 19; Gaz. vol. 210; p. 920.
- Oils, spirits, and gases from organic or other materials or substances, Apparatus for obtaining. A. N. Macnicol. No. 1,165,889; Dec. 28; Gaz. vol. 221; p. 1226.
- Oils, Treating hydrocarbon. T. T. Gray. No. 1,158,205; Oct. 26; Gaz. vol. 219; p. 1125.
- Oils, Treating hydrocarbon. C. H. Washburn. No. 1,138,266; May 4; Gaz. vol. 214; p. 190.
- Oils, Treatment of mineral and vegetable. J. J. Hood and A. G. Salamon. No. 1,151,523; Aug. 24; Gaz. vol. 217; p. 1290.
- Oiler. O. Zerk. No. 1,160,234; Nov. 16; Gaz. vol. 220; p. 727.
- Oiler, Animal-. H. W. Howard. No. 1,156,403; Oct. 12; Gaz. vol. 219; p. 400.
- Oiler, Automatic. P. Ghyselneck and J. M. Dauwe. No. 1,127,614; Feb. 9; Gaz. vol. 211; p. 371.
- Oiler, Automatic flange-. T. K. Oden. No. 1,162,094; Nov. 30; Gaz. vol. 220; p. 1475.
- Oiler, Automatic wagon-. B. G. Boone. No. 1,158,888; Nov. 2; Gaz. vol. 220; p. 169.
- Oiler, Contact-. P. G. MacGregor. No. 1,127,367; Feb. 2; Gaz. vol. 211; p. 244.
- Oiler, Contact-. P. G. MacGregor. No. 1,130,750; Mar. 9; Gaz. vol. 212; p. 351.
- Oiler, Die-stock. J. W. Brennessel. No. 1,147,781; July 27; Gaz. vol. 216; p. 1048.
- Oiler, Die-stock. C. H. and W. C. Buhmann and E. E. Iversen. No. 1,150,660; Aug. 17; Gaz. vol. 217; p. 938.
- Oiler, Explosion-engine. P. P. Valboe. No. 1,144,572; June 29; Gaz. vol. 215; p. 1345.
- Oiler, Flange-. A. Albertson. No. 1,154,156; Sept. 21; Gaz. vol. 218; p. 704.
- Oiler, Flange-. D. G. Black. No. 1,152,593; Sept. 7; Gaz. vol. 218; p. 79.
- Oiler for condensers, Apron-. H. L. Crocker. No. 1,142,936; June 15; Gaz. vol. 215; p. 725.
- Oiler for elevator guide-rods. W. A. Shearwood. No. 1,141,149; June 1; Gaz. vol. 215; p. 20.
- Oiler for the slides of wind musical instruments. G. W. Gill. No. 1,152,407; Sept. 7; Gaz. vol. 218; p. 9.
- Oiler, Hanger-box. C. A. De Temple. No. 1,155,472; Oct. 5; Gaz. vol. 219; p. 52.
- Oiler, Hog-. L. Hagny. No. 1,129,977; Mar. 2; Gaz. vol. 212; p. 48.
- Oiler, Live-stock. J. E. Jones. No. 1,151,883; Aug. 31; Gaz. vol. 217; p. 1462.
- Oiler, Road-. J. R. Kinney. No. 1,139,423; May 11; Gaz. vol. 214; p. 636.
- Oiler, Sight-feed. W. F. Bockhoff. No. 1,150,988; Aug. 24; Gaz. vol. 217; p. 1109.
- Oiler, Track-. J. C. Du Bois. No. 1,132,311; Mar. 16; Gaz. vol. 212; p. 938.
- Oiler, Wheel-flange. J. S. Golithon and M. McElliot. No. 1,158,798; Nov. 2; Gaz. vol. 220; p. 136.
- Oiler, Wheel-flange. C. H. Smith. No. 1,161,897; Nov. 30; Gaz. vol. 220; p. 1405.
- Oilers, Dust-proof guard for automatic axle-. J. J. McGuire. No. 1,142,260; June 8; Gaz. vol. 215; p. 450.
- Oiling and cleaning device for guns. C. H. Foster. No. 1,154,390; Sept. 21; Gaz. vol. 218; p. 785.
- Oiling apparatus, Harness-. B. H. Williams. No. 1,131,763; Mar. 16; Gaz. vol. 212; p. 736.
- Oiling device. C. Balough. No. 1,137,111; Apr. 27; Gaz. vol. 213; p. 1194.
- Oiling device. J. W. Block. No. 1,132,701; Mar. 23; Gaz. vol. 212; p. 1127.
- Oiling device. H. A. Bouk and J. F. Leise. No. 1,149,020; Aug. 3; Gaz. vol. 217; p. 189.
- Oiling device. J. M. Cunneen. No. 1,153,608; Sept. 14; Gaz. vol. 218; p. 480.
- Oiling device. M. Mintz. No. 1,159,406; Nov. 9; Gaz. vol. 220; p. 379.
- Oiling device, Cross-head-. O. Paulson. No. 1,123,359; Jan. 5; Gaz. vol. 210; p. 56.
- Oiling device for axle-spindles. A. J. Westmoreland. No. 1,149,104; Aug. 3; Gaz. vol. 217; p. 216.
- Oiling device for dough-divider machines. C. H. Hellig. No. 1,139,181; May 11; Gaz. vol. 214; p. 553.
- Oiling device for vertical shafts. F. W. Krogh. No. 1,159,504; Nov. 9; Gaz. vol. 220; p. 414.
- Oiling device, Saw-. J. Doman. No. 1,128,953; Feb. 16; Gaz. vol. 211; p. 891.
- Oiling-duct closure. J. L. Osgood. No. 1,157,250; Oct. 19; Gaz. vol. 219; p. 729.
- Oiling explosion-motors, Means for. H. C. Marmon. No. 1,156,608; Oct. 12; Gaz. vol. 219; p. 471.
- Oiling means for shaft-bearings. T. H. Miller. No. 1,158,529; Nov. 2; Gaz. vol. 220; p. 42.
- Oiling means for shaft-bearings. T. H. Miller. No. 1,158,530; Nov. 2; Gaz. vol. 220; p. 43.
- Oiling mechanism for machine-tools. H. W. Oster. No. 1,159,790; Nov. 9; Gaz. vol. 220; p. 518.
- Oiling skids, Means for. F. W. Kolb. No. 1,133,439; Mar. 30; Gaz. vol. 212; p. 1429.
- Oiling system for internal-combustion engines. E. R. Hewitt and A. F. Masury. No. 1,157,390; Oct. 19; Gaz. vol. 219; p. 779.
- Oiling system for motors. A. Loomis. No. 1,160,298; Nov. 16; Gaz. vol. 220; p. 749.
- Oiling system, Vapor-. E. M. Chace. No. 1,125,031; Jan. 12; Gaz. vol. 210; p. 686.
- Oiling tin or other plates, Machine for. G. Anger. No. 1,150,092; Aug. 17; Gaz. vol. 217; p. 739.
- Oilless spindle. L. S. Bache. No. 1,153,592; Sept. 14; Gaz. vol. 218; p. 475.
- Olive-picker. G. Hill. No. 1,131,240; Mar. 9; Gaz. vol. 212; p. 519.
- Olives and product thereof, Preparing. F. G. Beresford. No. 1,154,363; Sept. 21; Gaz. vol. 218; p. 776.
- Open-hearth furnace. J. C. Davis. No. 1,143,690; June 22; Gaz. vol. 215; p. 1012.
- Opener. W. C. Curran. No. 1,138,456; May 4; Gaz. vol. 214; p. 259.
- Operating-room for hospitals. H. J. Schlacks. No. 1,134,161; Apr. 6; Gaz. vol. 213; p. 28.
- Operating mechanism. H. F. Kuhns. No. 1,133,728; Mar. 30; Gaz. vol. 212; p. 1534.
- Operating-table. A. L. Soresi. No. 1,166,018; Dec. 28; Gaz. vol. 221; p. 1272.
- Operating-table, Combined fracture and orthopedic. C. H. Sanford. No. 1,160,451; Nov. 16; Gaz. vol. 220; p. 801.
- Ophthalmic mounting. G. H. Day. No. 1,145,058; July 6; Gaz. vol. 216; p. 31.
- Ophthalmic mounting. G. H. Day. No. 1,159,751; Nov. 9; Gaz. vol. 220; p. 503.
- Ophthalmic mounting. H. H. Styll. No. 1,146,111; July 13; Gaz. vol. 216; p. 417.
- Ophthalmic mounting. A. W. Wells. No. 1,152,249; Aug. 31; Gaz. vol. 217; p. 1586.
- Ophthalmic mounting. J. C. Wells. No. 1,132,754; Mar. 23; Gaz. vol. 212; p. 1146.
- Ophthalmological instrument. H. L. De Zeng. No. 1,158,187; Oct. 26; Gaz. vol. 219; p. 1119.
- Ophthalmometer and ceratometer. J. H. Sutcliffe. No. 1,142,778; June 8; Gaz. vol. 215; p. 629.
- Ophthalmoscope. F. A. Welch. No. 1,166,287; Dec. 28; Gaz. vol. 221; p. 1371.
- Ophthalmoscope or other optical instrument. H. L. De Zeng. No. 1,128,859; Feb. 16; Gaz. vol. 211; p. 855.
- Ophthalmoscopes, Electric attachment for. H. G. Herold. No. 1,145,586; July 6; Gaz. vol. 216; p. 212.
- Ophthalmotrope. G. A. Suffa. No. 1,135,222; Apr. 13; Gaz. vol. 213; p. 448.

- Optical apparatus, Objective for. C. H. Florian. No. 1,145,132; July 6; Gaz. vol. 216; p. 56.
- Optical instrument. H. L. De Zeng. No. 1,152,152; Aug. 31; Gaz. vol. 217; p. 1555.
- Optical instrument. H. L. De Zeng. No. 1,165,232; Dec. 21; Gaz. vol. 221; p. 960.
- Optical instrument. W. L. E. Keuffel. No. 1,145,022; July 6; Gaz. vol. 216; p. 16.
- Optical instrument. F. L. G. Kollmorgen. No. 1,134,388; Apr. 6; Gaz. vol. 213; p. 111.
- Optical instrument. S. A. Rhodes. No. 1,130,106; Mar. 2; Gaz. vol. 212; p. 92.
- Optical shutter. W. R. Savage. No. 1,150,543; Aug. 17; Gaz. vol. 217; p. 897.
- Optical system. M. von Rohr. No. 1,143,667; June 22; Gaz. vol. 215; p. 1004.
- Optical testing instrument. O. Henker. No. 1,162,058; Nov. 30; Gaz. vol. 220; p. 1461.
- Opticopictorial apparatus. F. von Madaler. No. 1,139,241; May 11; Gaz. vol. 214; p. 571.
- Optometer. J. E. Goodman. No. 1,160,710; Nov. 16; Gaz. vol. 220; p. 898.
- Orchard-heater. J. S. Bradley. No. 1,157,671; Oct. 26; Gaz. vol. 219; p. 938.
- Orchard-heater. E. W. Dunn. No. 1,125,014; Jan. 12; Gaz. vol. 210; p. 681.
- Orchard-heater. E. W. Dunn. No. 1,165,326; Dec. 21; Gaz. vol. 221; p. 990.
- Orchard-heater. J. L. Hamilton. No. 1,126,453; Jan. 26; Gaz. vol. 210; p. 1264.
- Orchard-heater. J. L. Hamilton. No. 1,143,582; June 15; Gaz. vol. 215; p. 950.
- Orchard-heater. W. C. Scheu. No. 1,136,902; Apr. 20; Gaz. vol. 213; p. 1081.
- Orchard-heater. W. C. Scheu. No. 1,148,803; Aug. 3; Gaz. vol. 217; p. 115.
- Orchard-heater. W. C. Scheu. No. 1,148,804; Aug. 3; Gaz. vol. 217; p. 115.
- Orchard-heater draft-regulator. W. C. Scheu. No. 1,134,764; Apr. 6; Gaz. vol. 213; p. 249.
- Orchard-heater, Oil-burning. W. C. Adams. No. 1,144,986; July 6; Gaz. vol. 216; p. 3.
- Orchard-heaters, Priming appliance for. T. Silk. No. 1,153,178; Sept. 7; Gaz. vol. 218; p. 286.
- Order-sheet, Money-transmitting. W. A. McAdams. No. 1,162,939; Dec. 7; Gaz. vol. 221; p. 71.
- Ordinance. D. J. Cartwright. No. 1,137,953; May 4; Gaz. vol. 214; p. 81.
- Ordinance-aiming device. K. Völler. No. 1,133,765; Mar. 30; Gaz. vol. 212; p. 1546.
- Ordinance, Barrel-carriage for. A. T. Dawson and G. T. Buckham. No. 1,128,591; Feb. 16; Gaz. vol. 211; p. 763.
- Ordinance, Bullet-deflector for. J. Sachar. No. 1,150,104; Nov. 2; Gaz. vol. 220; p. 240.
- Ordinance, Recoll-checking mechanism for. F. B. Yingling. (Reissue.) No. 13,938; June 22; Gaz. vol. 215; p. 1248.
- Ordinance sighting apparatus. A. Barr and W. Stroud. No. 1,164,325; Dec. 14; Gaz. vol. 221; p. 602.
- Ordinance sighting apparatus. E. Schneider. No. 1,155,517; Oct. 5; Gaz. vol. 219; p. 63.
- Ore and coal washers, Shaker-plate for. M. James. No. 1,142,434; June 8; Gaz. vol. 215; p. 512.
- Ore and other material, Apparatus for disintegrating. H. W. Hardinge. No. 1,161,859; Nov. 30; Gaz. vol. 220; p. 1391.
- Ore-belt edger. A. W. Harp. No. 1,126,456; Jan. 26; Gaz. vol. 210; p. 1265.
- Ore-bin-door-operating mechanism. L. Clapper. No. 1,164,702; Dec. 21; Gaz. vol. 221; p. 774.
- Ore-classifier. D. J. Nevill. No. 1,156,543; Oct. 12; Gaz. vol. 219; p. 449.
- Ore-classifier. D. J. Nevill. No. 1,156,544; Oct. 12; Gaz. vol. 219; p. 449.
- Ore classifier and concentrator. C. O. Michaelsen. No. 1,126,819; Feb. 2; Gaz. vol. 211; p. 55.
- Ore concentrates, Briquetting. C. E. Herrmann. No. 1,155,311; Sept. 28; Gaz. vol. 218; p. 1125.
- Ore-concentrating apparatus. J. M. Callow. No. 1,124,853; Jan. 12; Gaz. vol. 210; p. 624.
- Ore-concentrating apparatus. J. M. Callow. No. 1,141,377; June 1; Gaz. vol. 215; p. 104.
- Ore concentration. J. W. Littleford. No. 1,142,822; June 15; Gaz. vol. 215; p. 684.
- Ore concentration. L. A. Wood. No. 1,155,861; Oct. 5; Gaz. vol. 219; p. 187.
- Ore concentration, Apparatus for. A. H. Higgins. No. 1,155,816; Oct. 5; Gaz. vol. 219; p. 172.
- Ore concentration, Apparatus for. A. H. Higgins and W. W. Stenning. No. 1,155,815; Oct. 5; Gaz. vol. 219; p. 171.
- Ore-concentrator. O. H. King. No. 1,148,591; Aug. 3; Gaz. vol. 217; p. 39.
- Ore-concentrator. F. D. Reid. No. 1,134,349; Apr. 6; Gaz. vol. 213; p. 97.
- Ore-concentrator. F. O. Stromborg. No. 1,146,211; July 13; Gaz. vol. 216; p. 453.
- Ore-concentrator. J. Weatherby. No. 1,145,046; July 6; Gaz. vol. 216; p. 26.
- Ore, Cooling. W. H. Hubbard, Jr. No. 1,149,264; Aug. 10; Gaz. vol. 217; p. 379.
- Ore-crushing process and apparatus. H. C. Behr. No. 1,127,853; Feb. 9; Gaz. vol. 211; p. 458.
- Ore disintegrating and screening machine. G. W. Crowe. No. 1,156,394; Oct. 12; Gaz. vol. 219; p. 398.
- Ore-disintegrator. L. S. Roylance. No. 1,142,462; June 8; Gaz. vol. 215; p. 522.
- Ore-feeder for stamp-mills and the like. E. H. Moyle. No. 1,124,503; Jan. 12; Gaz. vol. 210; p. 498.
- Ore-flotation apparatus. J. M. Callow. No. 1,124,856; Jan. 12; Gaz. vol. 210; p. 626.
- Ore for blast-furnaces, Preparing. G. L. Collard. No. 1,129,645; Feb. 23; Gaz. vol. 211; p. 1168.
- Ore-furnace. L. B. Skinner. No. 1,164,131; Dec. 14; Gaz. vol. 221; p. 535.
- Ore-furnace. L. B. Skinner. No. 1,164,132; Dec. 14; Gaz. vol. 221; p. 535.
- Ore-furnace. H. F. Wierum. No. 1,162,894; Dec. 7; Gaz. vol. 221; p. 56.
- Ore-grinder. E. F. McCool. No. 1,138,966; May 11; Gaz. vol. 214; p. 475.
- Ore-grinder. E. F. McCool. No. 1,144,305; June 22; Gaz. vol. 215; p. 1228.
- Ore-grinding machine. C. O. Michaelsen. No. 1,158,259; Oct. 26; Gaz. vol. 219; p. 1143.
- Ore-jig. F. Franz and E. R. Day. No. 1,160,502; Nov. 16; Gaz. vol. 220; p. 820.
- Ore-leaching apparatus. M. C. Godbe. No. 1,150,263; Aug. 17; Gaz. vol. 217; p. 801.
- Ore-pocket door. C. G. Baumgartner. No. 1,140,436; May 25; Gaz. vol. 214; p. 1063.
- Ore-pulp, Apparatus for treating. B. MacDonald. No. 1,163,097; Dec. 7; Gaz. vol. 221; p. 126.
- Ore-roasting and like furnace, Mechanical. J. Harris. No. 1,149,754; Aug. 10; Gaz. vol. 217; p. 557.
- Ore-roasting furnace. E. Bracq. No. 1,125,949; Jan. 26; Gaz. vol. 210; p. 1081.
- Ore-roasting furnace. I. R. Margetts and E. R. Pembroke. No. 1,145,329; July 6; Gaz. vol. 216; p. 122.
- Ore-roasting furnace. J. C. Simmons. No. 1,164,761; Dec. 21; Gaz. vol. 221; p. 794.
- Ore roasting or drying furnace. H. M. Ridge. No. 1,143,438; June 15; Gaz. vol. 215; p. 903.
- Ore, sand, &c., drier. B. R. Behnke and V. Keech. No. 1,123,222; Jan. 5; Gaz. vol. 210; p. 7.
- Ore, Separating. A. J. Moxham. No. 1,151,117; Aug. 24; Gaz. vol. 217; p. 1152.
- Ore separating and concentrating machine. W. P. Clifford and J. C. Cook. No. 1,128,850; Feb. 16; Gaz. vol. 211; p. 853.
- Ore separating or classifying apparatus. H. E. Wetherbee. No. 1,163,876; Dec. 14; Gaz. vol. 221; p. 445.
- Ore separation, Magnetic. F. B. Dutton and B. E. McKechnie. No. 1,146,140; July 13; Gaz. vol. 216; p. 428.
- Ore-separator. C. H. Brown and C. C. Parker. No. 1,152,351; Aug. 31; Gaz. vol. 217; p. 1623.
- Ore-separator. H. H. McGovern. No. 1,139,206; May 11; Gaz. vol. 214; p. 561.
- Ore-separator. E. Torrey. No. 1,155,292; Sept. 28; Gaz. vol. 218; p. 1118.
- Ore-separator, Dry and wet. J. Stanley. No. 1,149,302; Aug. 10; Gaz. vol. 217; p. 394.
- Ore separator, Fine. C. W. Bell. No. 1,135,754; Apr. 13; Gaz. vol. 213; p. 635.
- Ore-separator, Magnetic. A. F. Jobke. No. 1,157,543; Oct. 19; Gaz. vol. 219; p. 831.
- Ore-separator, Magnetic. S. R. Salwén. No. 1,141,833; June 1; Gaz. vol. 215; p. 260.
- Ore-separator, Magnetic. S. N. Smith. No. 1,161,351; Nov. 23; Gaz. vol. 220; p. 1170.
- Ore-separatory apparatus. J. M. Callow and D. J. Kelly. No. 1,124,855; Jan. 12; Gaz. vol. 210; p. 625.
- Ore-sintering apparatus. A. F. Plock. No. 1,140,710; May 25; Gaz. vol. 214; p. 1157.
- Ore-treating apparatus. R. Colvin. No. 1,142,497; June 8; Gaz. vol. 215; p. 535.
- Ore-treating apparatus. W. A. Hoffman. No. 1,150,367; Aug. 17; Gaz. vol. 217; p. 837.
- Ore-treating apparatus. B. MacDonald. No. 1,139,428; May 11; Gaz. vol. 214; p. 638.
- Ore-treating device. J. A. Fleming. No. 1,150,669; Aug. 17; Gaz. vol. 217; p. 941.
- Ore-treating process and apparatus. L. E. Porter. No. 1,136,483; Apr. 20; Gaz. vol. 213; p. 933.
- Ore treatment, Agitator for. C. Robinson. No. 1,156,372; Oct. 12; Gaz. vol. 219; p. 389.
- Ore, Treatment of vanadium. L. F. Vogt. No. 1,129,253; Feb. 23; Gaz. vol. 211; p. 1031.
- Ores and intermediate products, Treating radio-active. E. Ebler. No. 1,142,154; June 8; Gaz. vol. 215; p. 412.
- Ores and other materials, Apparatus for treating. H. B. Hovland. No. 1,164,188; Dec. 14; Gaz. vol. 221; p. 553.
- Ores and other materials, Apparatus for treating. H. B. Hovland. No. 1,164,189; Dec. 14; Gaz. vol. 221; p. 553.

Alphabetical list of inventions—Continued.

- Ore-washer, Magnetic. E. W. Davis. No. 1,153,037; Sept. 7; Gaz. vol. 218; p. 239.
- Ores and other materials under pressure, Apparatus for treating. H. B. Hovland. No. 1,164,187; Dec. 14; Gaz. vol. 221; p. 552.
- Ores and the like, Recovery of cuprous sulfid from. R. F. Bacon. No. 1,151,234; Aug. 24; Gaz. vol. 217; p. 1193.
- Ores and the like, Recovery of cuprous sulfid from. R. F. Bacon. No. 1,151,235; Aug. 24; Gaz. vol. 217; p. 1193.
- Ores and the like, Recovery of metals from. C. S. Vadder. No. 1,144,402; June 29; Gaz. vol. 215; p. 1289.
- Ores, Apparatus for the concentration of. T. M. Owen. No. 1,155,836; Oct. 5; Gaz. vol. 219; p. 179.
- Ores, Apparatus for the dissolution of lead. S. W. Anderson. No. 1,165,742; Dec. 28; Gaz. vol. 221; p. 1177.
- Ores, Apparatus for the wet dressing of sulfid. E. S. Smith. No. 1,136,622; Apr. 20; Gaz. vol. 213; p. 983.
- Ores by the cyanid process, Treatment of. H. M. Leslie. No. 1,158,513; Nov. 2; Gaz. vol. 220; p. 36.
- Ores, &c., Calcining, desulfurizing, and agglomerating. F. Meyer. No. 1,166,142; Dec. 28; Gaz. vol. 221; p. 1317.
- Ores, Chloridizing roasting of. A. Ramén and K. J. Beskow. No. 1,124,519; Jan. 12; Gaz. vol. 210; p. 504.
- Ores, Chloridizing roasting of. A. Ramén and K. J. Beskow. No. 1,129,123; Feb. 23; Gaz. vol. 211; p. 986.
- Ores, Concentrating. J. M. Callow. No. 1,125,897; Jan. 19; Gaz. vol. 210; p. 1030.
- Ores, Desulfurizing. G. Fusina. No. 1,131,691; Mar. 16; Gaz. vol. 212; p. 710.
- Ores, Extracting values from. H. Foersterling and A. L. Halvorsen. No. 1,164,636; Dec. 21; Gaz. vol. 221; p. 750.
- Ores for agglomerating or reducing them and apparatus therefor, Treatment of subdivided. G. Gröndal and H. Nilsson. No. 1,142,324; June 8; Gaz. vol. 215; p. 471.
- Ores in the subsoil, Location of. C. Schlumberger. No. 1,163,469; Dec. 7; Gaz. vol. 221; p. 257.
- Ores, Leaching. J. A. McCaskell. No. 1,137,874; May 4; Gaz. vol. 214; p. 53.
- Ores, Nodulizing. N. S. Borch. No. 1,123,672; Jan. 5; Gaz. vol. 210; p. 162.
- Ores, Plant for the reduction and smelting of. E. D. Kendall. No. 1,131,709; Mar. 16; Gaz. vol. 212; p. 716.
- Ores, Reducing. A. E. Greene. No. 1,129,862; Mar. 2; Gaz. vol. 212; p. 10.
- Ores, Screen for the separation of. A. H. Kidney. No. 1,131,710; Mar. 16; Gaz. vol. 212; p. 716.
- Ores, Separation of mixed sulfid. H. Lavers. No. 1,142,821; June 15; Gaz. vol. 215; p. 683.
- Ores, Sulfatizing. A. D. Carmichael. No. 1,124,696; Jan. 12; Gaz. vol. 210; p. 568.
- Ores, Treating. R. Baggaley. No. 1,135,488; Apr. 13; Gaz. vol. 213; p. 540.
- Ores, Treating. L. C. Drefahl. No. 1,153,203; Sept. 14; Gaz. vol. 218; p. 333.
- Ores, Treating. J. W. Emerson. No. 1,126,965; Feb. 2; Gaz. vol. 211; p. 105.
- Ores, Treating. E. M. Hamilton. No. 1,136,872; Apr. 20; Gaz. vol. 213; p. 1070.
- Ores, Treating complex carnotite. C. W. Danforth, W. E. Samuels, and W. T. Martersteck. No. 1,126,182; Jan. 26; Gaz. vol. 210; p. 1169.
- Ores, Treating complex sulfid. G. E. Kingsley. No. 1,144,480; June 29; Gaz. vol. 215; p. 1315.
- Ores, Treating mixed sulfid. E. Langguth. No. 1,144,481; June 29; Gaz. vol. 215; p. 1315.
- Ores, Treating metallic. A. Estelle. No. 1,162,150; Nov. 30; Gaz. vol. 220; p. 1494.
- Ores, Treating tungsten. F. M. Becket. No. 1,153,594; Sept. 14; Gaz. vol. 218; p. 476.
- Organ. J. T. Austin. No. 1,145,867; July 6; Gaz. vol. 216; p. 312.
- Organ, Automatic. W. B. Fleming. No. 1,146,321; July 13; Gaz. vol. 216; p. 490.
- Organ-blower. I. H. Spencer. No. 1,158,738; Nov. 2; Gaz. vol. 220; p. 114.
- Organ combined with pianoforte. Reed. J. B. Hamilton. No. 1,154,509; Sept. 21; Gaz. vol. 218; p. 824.
- Organ coupling mechanism. J. Galleazzi. No. 1,133,555; Mar. 30; Gaz. vol. 212; p. 1471.
- Organ, Folding. P. P. Bilborn. No. 1,152,475; Sept. 7; Gaz. vol. 218; p. 33.
- Organ pipe, Reed-. A. Parsons. No. 1,141,262; June 1; Gaz. vol. 215; p. 61.
- Organ stop-action. J. T. Austin. No. 1,123,216; Jan. 5; Gaz. vol. 210; p. 4.
- Organ stop-action. J. T. Austin. No. 1,131,814; Mar. 16; Gaz. vol. 212; p. 756.
- Organ stop-action. M. S. Pitt. No. 1,151,387; Aug. 24; Gaz. vol. 217; p. 1242.
- Organ stop mechanism. B. G. Austin. No. 1,162,279; Nov. 30; Gaz. vol. 220; p. 1539.
- Organs, Expression device for electric. J. W. Darley, Jr. No. 1,155,300; Sept. 28; Gaz. vol. 218; p. 1120.
- Ornament and making the same, Relief. J. M. Cructet. No. 1,154,384; Sept. 21; Gaz. vol. 218; p. 783.
- Ornamental article. H. M. Wootton. No. 1,128,929; Feb. 16; Gaz. vol. 211; p. 882.
- Ornamental blocks, Forming. E. C. Eyl. No. 1,137,595; Apr. 27; Gaz. vol. 213; p. 1365.
- Ornamental box. W. A. Cardy. No. 1,164,463; Dec. 14; Gaz. vol. 221; p. 650.
- Ornamental fabric. A. H. Kursheedt. No. 1,148,694; Aug. 3; Gaz. vol. 217; p. 76.
- Ornamental stand. N. Q. Fretwell. No. 1,166,200; Dec. 28; Gaz. vol. 221; p. 1339.
- Ornamentation. J. S. Correa. No. 1,141,317; June 1; Gaz. vol. 215; p. 82.
- Orthodontia appliance. E. H. Angle. No. 1,142,790; June 15; Gaz. vol. 215; p. 673.
- Orthodontia appliance. E. H. Angle. No. 1,163,197; Dec. 7; Gaz. vol. 221; p. 162.
- Orthodontia appliance. C. F. Montag. No. 1,140,759; May 25; Gaz. vol. 214; p. 1174.
- Orthodontia appliance. W. E. Walker. No. 1,142,467; June 8; Gaz. vol. 215; p. 524.
- Orthodontia device for influencing the alveolar process and unemerged teeth. W. E. Walker. No. 1,137,298; Apr. 27; Gaz. vol. 213; p. 1263.
- Orthopedic cushion. L. D. Deol. No. 1,154,491; Sept. 21; Gaz. vol. 218; p. 818.
- Orthopedic device. M. L. Severy. No. 1,120,525; Feb. 23; Gaz. vol. 211; p. 1126.
- Orthopedic stocks for the treatment of club-feet in children. W. H. Dalpé. No. 1,124,596; Jan. 12; Gaz. vol. 210; p. 532.
- Orthopedic table. G. W. Hawley. No. 1,126,460; Jan. 26; Gaz. vol. 210; p. 1267.
- Oscillating engine. J. Bergesen. No. 1,125,639; Jan. 19; Gaz. vol. 210; p. 938.
- Oscillating engine. C. M. Walker. No. 1,145,449; July 6; Gaz. vol. 216; p. 166.
- Oscillating movement to a shaft, Mechanism for producing an. G. W. Buttles. No. 1,152,368; Aug. 31; Gaz. vol. 217; p. 1630.
- Oscillation-receiving device. G. W. Pickard. No. 1,136,044; Apr. 20; Gaz. vol. 213; p. 777.
- Oscillation-receiving device. G. W. Pickard. No. 1,136,045; Apr. 20; Gaz. vol. 213; p. 777.
- Oscillation-receiving device. G. W. Pickard. No. 1,136,046; Apr. 20; Gaz. vol. 213; p. 777.
- Oscillation-receiving device. G. W. Pickard. No. 1,136,047; Apr. 20; Gaz. vol. 213; p. 777.
- Osteopathic apparatus. F. D. Powell. No. 1,137,898; May 4; Gaz. vol. 214; p. 60.
- Osteopathic operating-table. J. W. Macklin. No. 1,143,981; June 22; Gaz. vol. 215; p. 1111.
- Outboard motor. C. A. and O. W. Hult. No. 1,146,427; July 13; Gaz. vol. 216; p. 528.
- Outlet-box. W. A. Hall. No. 1,132,087; Mar. 16; Gaz. vol. 212; p. 853.
- Outlet-box. C. J. Klein. No. 1,153,394; Sept. 14; Gaz. vol. 218; p. 403.
- Outlet-box. J. B. McGinley. No. 1,131,399; Mar. 9; Gaz. vol. 212; p. 574.
- Outlet-box. M. Robinson. No. 1,140,917; May 25; Gaz. vol. 214; p. 1232.
- Outlet-box. M. Robinson. No. 1,143,322; June 15; Gaz. vol. 215; p. 861.
- Outlet-box bracket. J. C. Caine. No. 1,156,885; Oct. 19; Gaz. vol. 219; p. 598.
- Outlet-box bushing. G. A. Gauthier. No. 1,129,973; Mar. 2; Gaz. vol. 212; p. 47.
- Outlet-box, Electrical. H. E. Svenson. No. 1,164,236; Dec. 14; Gaz. vol. 221; p. 568.
- Outlet-box for protective casings for line conductors. T. E. Murray. No. 1,142,835; June 15; Gaz. vol. 215; p. 688.
- Outlet-box hanger. F. L. Cain and C. J. Dorff. No. 1,133,535; Mar. 30; Gaz. vol. 212; p. 1464.
- Outlet-fixture. H. T. Paiste. No. 1,126,267; Jan. 26; Gaz. vol. 210; p. 1198.
- Outlet or junction box. J. C. Phelps. No. 1,124,653; Jan. 12; Gaz. vol. 210; p. 554.
- Outsoles, Preparing. J. J. Heys. No. 1,137,618; Apr. 27; Gaz. vol. 213; p. 1373.
- Ovarian product from its surrounding membrane, Separating. G. M. and W. I. Heatzman. No. 1,163,538; Dec. 7; Gaz. vol. 221; p. 280.
- Oven. F. E. Carlson. No. 1,128,755; Feb. 16; Gaz. vol. 211; p. 819.
- Oven. J. A. Fairchild. No. 1,143,372; June 15; Gaz. vol. 215; p. 879.
- Oven. G. W. Graves. No. 1,126,753; Feb. 2; Gaz. vol. 211; p. 31.
- Oven. W. R. Jeavons and A. R. Whittaker. No. 1,168,131; Dec. 28; Gaz. vol. 221; p. 1313.
- Oven. G. W. Jones. No. 1,127,259; Feb. 2; Gaz. vol. 211; p. 209.
- Oven. T. H. Knorr. No. 1,149,070; Aug. 3; Gaz. vol. 217; p. 207.
- Oven. F. Koch. No. 1,150,865; Aug. 24; Gaz. vol. 217; p. 1067.
- Oven. J. E. Leonard and G. H. Ilten. No. 1,161,232; Nov. 23; Gaz. vol. 220; p. 1127.
- Oven. A. A. Rankin. No. 1,162,399; Nov. 30; Gaz. vol. 220; p. 1579.
- Oven. W. K. Schaefer. No. 1,148,863; Aug. 3; Gaz. vol. 217; p. 135.
- Oven. F. Stasek. No. 1,136,493; Apr. 20; Gaz. vol. 213; p. 937.

- Oven. R. E. Valentine. No. 1,143,151; June 15; Gaz. vol. 215; p. 800.
- Oven. T. J., and E. L. Vicars. No. 1,133,684; Mar. 30; Gaz. vol. 212; p. 1519.
- Oven. T. J., and E. L. Vicars. No. 1,148,265; July 27; Gaz. vol. 216; p. 1220.
- Oven. G. S. Welch. No. 1,124,085; Jan. 5; Gaz. vol. 210; p. 301.
- Oven. F. E. White. No. 1,146,042; July 13; Gaz. vol. 216; p. 394.
- Oven. W. H. Wilder. No. 1,161,365; Nov. 23; Gaz. vol. 220; p. 1175.
- Oven. W. H. Wilder and F. E. White. No. 1,155,180; Sept. 28; Gaz. vol. 218; p. 1085.
- Oven and kiln. Electrical. L. H. Giddings. No. 1,130,392; Mar. 2; Gaz. vol. 212; p. 192.
- Oven, Automatic gas-. B. E. Meacham. No. 1,162,297; Nov. 30; Gaz. vol. 220; p. 1545.
- Oven, Bake-. E. Clauss. No. 1,159,747; Nov. 9; Gaz. vol. 220; p. 501.
- Oven, Bake-. J. Faulds. No. 1,148,669; Aug. 3; Gaz. vol. 217; p. 67.
- Oven, Bake-. A. Fennila. No. 1,152,803; Sept. 7; Gaz. vol. 218; p. 155.
- Oven, Baker's. G. S. Baker. No. 1,141,599; June 1; Gaz. vol. 215; p. 183.
- Oven, Baker's. G. S. Baker. No. 1,141,601; June 1; Gaz. vol. 215; p. 184.
- Oven, Baker's. H. Crouthamel. No. 1,139,349; May 11; Gaz. vol. 214; p. 608.
- Oven, Baker's. H. Gottschalk. No. 1,137,711; Apr. 27; Gaz. vol. 213; p. 1402.
- Oven, Baker's. M. March. No. 1,146,587; July 13; Gaz. vol. 216; p. 587.
- Oven, Baking-. W. S. Corby and J. L. Parsons, Jr. No. 1,135,935; May 11; Gaz. vol. 214; p. 464.
- Oven, Baking-. C. B. Goldsmith. No. 1,136,120; Apr. 20; Gaz. vol. 213; p. 801.
- Oven, Baking-. C. W. Helm. No. 1,165,409; Dec. 28; Gaz. vol. 221; p. 1060.
- Oven, Baking-. L. C. Reese. No. 1,151,042; Aug. 24; Gaz. vol. 217; p. 1127.
- Oven-door. E. F. Griffin. No. 1,139,272; May 11; Gaz. vol. 214; p. 582.
- Oven, Drying and baking. G. J. Mashek. No. 1,157,658; Oct. 19; Gaz. vol. 219; p. 863.
- Oven, Electrically-heated. L. G. Copeman. No. 1,141,176; June 1; Gaz. vol. 215; p. 30.
- Oven, Electrically-heated. R. W. Davenport. No. 1,142,939; June 15; Gaz. vol. 215; p. 726.
- Oven, Electrically-heated. F. Kuhn. No. 1,154,416; Sept. 21; Gaz. vol. 218; p. 793.
- Oven for generating gas and producing coke. H. Koppers. No. 1,125,345; Jan. 19; Gaz. vol. 210; p. 836.
- Oven for heating asphalt pavement. C. A. Switzer. No. 1,136,294; Apr. 20; Gaz. vol. 213; p. 865.
- Oven, Gas-. A. H. Kohlmeier. No. 1,135,700; Apr. 13; Gaz. vol. 213; p. 616.
- Oven, Heat-retaining. A. P. Hawley. No. 1,140,154; May 18; Gaz. vol. 214; p. 931.
- Oven-insulating means. Bake-. C. B. Comstock. No. 1,156,890; Oct. 12; Gaz. vol. 219; p. 396.
- Oven, Knockdown. E. Boekenkamp. No. 1,143,028; June 15; Gaz. vol. 215; p. 757.
- Oven light. Baker's-. C. Robson. No. 1,154,339; Sept. 21; Gaz. vol. 218; p. 767.
- Oven-mat. E. M. Porter. No. 1,126,270; Jan. 26; Gaz. vol. 210; p. 1199.
- Oven, Portable sectional. H. Gehrich. No. 1,155,145; Sept. 28; Gaz. vol. 218; p. 1072.
- Oven-roof. B. B. Kahn. No. 1,146,170; July 13; Gaz. vol. 216; p. 439.
- Ovens, Forming, charging, and removing device for bakers'. A. Streit. No. 1,165,035; Dec. 21; Gaz. vol. 221; p. 889.
- Ovens, Heat-retainer for bakers'. J. Bechtel. No. 1,128,933; Feb. 16; Gaz. vol. 211; p. 883.
- Ovens, Protective apparatus for repairers of bakers'. C. Schiller. No. 1,152,554; Sept. 7; Gaz. vol. 218; p. 64.
- Ovens with batter, Oven-filling mechanism for filling. W. M. and P. D. Roberts. No. 1,147,974; July 27; Gaz. vol. 216; p. 1116.
- Over-arm. A. L. De Leeuw. No. 1,147,615; July 20; Gaz. vol. 216; p. 964.
- Overalls. H. and H. Carhartt, Jr., and O. E. Kratz. No. 1,152,289; Aug. 31; Gaz. vol. 217; p. 1601.
- Overalls. O. Kratz. No. 1,152,323; Aug. 31; Gaz. vol. 217; p. 1612.
- Overalls. L. H. Wise. No. 1,145,855; July 6; Gaz. vol. 216; p. 308.
- Overalls, Bib for. W. J. Matthews. No. 1,144,369; June 29; Gaz. vol. 215; p. 1278.
- Overcheck-hook. I. E. Cornell. No. 1,139,166; May 11; Gaz. vol. 214; p. 547.
- Overcoat. E. J. Guenzel. No. 1,163,909; Dec. 14; Gaz. vol. 221; p. 456.
- Overflow trunking system. C. C. Bradbury. No. 1,161,602; Nov. 23; Gaz. vol. 220; p. 1256.
- Overhead carrier. G. H. Weber. No. 1,137,040; Apr. 27; Gaz. vol. 213; p. 1168.
- Overhead line construction. N. W. Storer. No. 1,144,620; June 29; Gaz. vol. 215; p. 1362.
- Overhoist automatic cut-off. M. Beam. No. 1,156,877; Oct. 19; Gaz. vol. 219; p. 595.
- Overlay or make-ready, Preparing an. J. F. Cook. No. 1,146,928; July 20; Gaz. vol. 216; p. 724.
- Overload protective device. W. E. Date. No. 1,136,657; Apr. 20; Gaz. vol. 213; p. 995.
- Overseaming cup-feed machines, Feeding mechanism for. L. Onderdonk. No. 1,137,784; May 4; Gaz. vol. 214; p. 22.
- Overseaming-machine. A. H. De Voe. No. 1,161,294; Nov. 23; Gaz. vol. 220; p. 1149.
- Overseaming-machine. L. Onderdonk. No. 1,123,574; Jan. 5; Gaz. vol. 210; p. 128.
- Overshoe, Flexible dress-. C. L. K. Ferguson. (Reissue). No. 13,928; June 15; Gaz. vol. 215; p. 959.
- Overshoe, Protective. O. P. Koebel. No. 1,125,558; Jan. 19; Gaz. vol. 210; p. 909.
- Overshoe-retainer. E. J. Akins. No. 1,161,017; Nov. 23; Gaz. vol. 220; p. 1050.
- Overshoe, Rubber. J. H. Staubly. No. 1,165,812; Dec. 28; Gaz. vol. 221; p. 1200.
- Overshoe, Skating-. L. Freeman. No. 1,160,159; Nov. 16; Gaz. vol. 220; p. 701.
- Oxids and the like, The reduction of metallic. F. W. Highfield. No. 1,153,786; Sept. 14; Gaz. vol. 218; p. 541.
- Oxids from flue-dust, Sintering process for the recovery of metallic. G. F. Downs. No. 1,127,209; Feb. 2; Gaz. vol. 211; p. 192.
- Oxids of nitrogen from atmospheric air, Obtaining. F. I. Du Pont. No. 1,147,150; July 20; Gaz. vol. 216; p. 801.
- Oxids of phosphorus and nitrogen compounds, Producing. S. Peacock. No. 1,129,722; Feb. 23; Gaz. vol. 211; p. 1191.
- Oxids with hydrogen, Apparatus for the reduction of metallic. E. C. Kayser. No. 1,134,745; Apr. 6; Gaz. vol. 213; p. 242.
- Oxyacetylene apparatus. M. L. Popp. No. 1,136,437; Apr. 20; Gaz. vol. 213; p. 917.
- Oxygen-generator. T. Griswold, Jr., and E. O. Barstow. No. 1,140,373; May 25; Gaz. vol. 214; p. 1040.
- Oxygen-generator. W. F. Muehl. No. 1,160,524; Nov. 16; Gaz. vol. 220; p. 828.
- Oxygen, Manufacture of. H. Kriegshelm. No. 1,153,502; Sept. 14; Gaz. vol. 218; p. 442.
- Oxygen, Producing. P. Dankwardt. No. 1,124,304; Jan. 12; Gaz. vol. 210; p. 427.
- Oxygen-producing apparatus. B. H. Cram. No. 1,155,045; Sept. 28; Gaz. vol. 218; p. 1035.
- Oxyquinolin compounds. H. J. Hahl. No. 1,129,865; Mar. 2; Gaz. vol. 212; p. 11.
- Oyster-opener. C. J. Ottum. No. 1,159,262; Nov. 2; Gaz. vol. 220; p. 296.
- Ozonator. A. R. Darling. No. 1,125,900; Jan. 19; Gaz. vol. 210; p. 1031.
- Ozonator. L. Goldberg. No. 1,136,227; Apr. 20; Gaz. vol. 213; p. 841.
- Ozone and separating gases, Apparatus for producing. H. Dumars. No. 1,149,254; Aug. 10; Gaz. vol. 217; p. 375.
- Ozone-generating apparatus. W. J. Knox. No. 1,130,827; Mar. 9; Gaz. vol. 212; p. 377.
- Ozone-generator. W. O. Freet. No. 1,157,859; Oct. 26; Gaz. vol. 219; p. 1003.
- Ozone-generator, Tubular. M. P. Otto. No. 1,163,768; Dec. 14; Gaz. vol. 221; p. 407.
- Ozone-producing process and apparatus. J. Steynis. No. 1,162,415; Nov. 30; Gaz. vol. 220; p. 1584.
- Ozone production. J. R. Quain. No. 1,147,265; July 20; Gaz. vol. 216; p. 841.
- Pack-carrier. G. A. Blain. No. 1,156,878; Oct. 19; Gaz. vol. 219; p. 595.
- Pack-frame. B. F. Cramer. No. 1,150,664; Aug. 17; Gaz. vol. 217; p. 939.
- Package. H. A. Christensen. No. 1,135,878; Apr. 13; Gaz. vol. 213; p. 678.
- Package. W. Haigh. No. 1,153,221; Sept. 14; Gaz. vol. 218; p. 340.
- Package. O. E. Teall. No. 1,131,874; Mar. 16; Gaz. vol. 212; p. 777.
- Package and cover-blank therefor, Sealed wrapped. H. G. Schwerdtle. No. 1,152,352; Aug. 31; Gaz. vol. 217; p. 1623.
- Package and making the same. H. A. Sévigné and T. B. Dooley. No. 1,131,561; Mar. 9; Gaz. vol. 212; p. 629.
- Package and opener therefor, Sealed wrapped. J. S. Stokes. No. 1,154,217; Sept. 21; Gaz. vol. 218; p. 724.
- Package-banding machine. J. Alemany. No. 1,151,429; Aug. 24; Gaz. vol. 217; p. 1256.
- Package-carrier. C. J. Miller. No. 1,130,530; Mar. 2; Gaz. vol. 212; p. 243.
- Package-carrier. E. Palmer. No. 1,137,523; Apr. 27; Gaz. vol. 213; p. 1342.
- Package-carrying handle. T. H. Spurrier. No. 1,137,548; Apr. 27; Gaz. vol. 213; p. 1350.
- Package-coating apparatus. P. Sherrer. No. 1,152,922; Sept. 7; Gaz. vol. 218; p. 199.
- Package cover and spout. E. W. Pinkerton. No. 1,155,681; Oct. 5; Gaz. vol. 219; p. 124.
- Package-fastening device. W. T. Timmerman. No. 1,156,565; Oct. 12; Gaz. vol. 219; p. 457.

Alphabetical list of inventions—Continued.

- Package-filler. P. C. Lieber. No. 1,149,844; Aug. 10; Gaz. vol. 217; p. 590.
- Package-filling machine. N. Musher. No. 1,131,727; Mar. 16; Gaz. vol. 212; p. 722.
- Package for bandages and analogous articles. J. Bowman. No. 1,161,286; Nov. 23; Gaz. vol. 220; p. 1147.
- Package for chewing-gum and other articles of merchandise. M. J. Milmo. No. 1,126,823; Feb. 2; Gaz. vol. 211; p. 57.
- Package for parcel-post and other uses. Collapsible. T. J. Day. No. 1,147,615; July 20; Gaz. vol. 216; p. 964.
- Package-forming machine. P. H. Grimm and F. L. Cocks. No. 1,133,857; Mar. 30; Gaz. vol. 212; p. 1581.
- Package-forming machine. P. H. Grimm and F. L. Cocks. No. 1,133,858; Mar. 30; Gaz. vol. 212; p. 1581.
- Package-heading machine. J. R. Harbeck. No. 1,123,528; Jan. 5; Gaz. vol. 210; p. 114.
- Package-heading machine. H. C. Herr. No. 1,123,292; Jan. 5; Gaz. vol. 210; p. 31.
- Package, Knockdown. G. S. Bowman. No. 1,144,633; June 29; Gaz. vol. 215; p. 1366.
- Package-lifting device. C. Kaufman. No. 1,123,751; Jan. 5; Gaz. vol. 210; p. 189.
- Package of elbows. A. G. Scherer. No. 1,160,203; Nov. 16; Gaz. vol. 220; p. 716.
- Package of merchandise. Sealed wrapped. H. G. Schwerdtle. No. 1,152,353; Aug. 31; Gaz. vol. 217; p. 1624.
- Package, Portable vulcanizing. A. B. Low. No. 1,163,629; Dec. 7; Gaz. vol. 221; p. 313.
- Package, Sealed. F. Payne. No. 1,158,073; Oct. 26; Gaz. vol. 219; p. 1079.
- Package, Sealed wrapped. J. S. Stokes. No. 1,150,076; Aug. 17; Gaz. vol. 217; p. 732.
- Package-shifting mechanism. G. and R. C. Schock. No. 1,151,969; Aug. 31; Gaz. vol. 217; p. 1490.
- Package-tie. C. H. Burton. No. 1,127,859; Feb. 9; Gaz. vol. 211; p. 460.
- Package-tie. C. W. Donholt. No. 1,164,270; Dec. 14; Gaz. vol. 221; p. 580.
- Package-tie. E. C. Faust. No. 1,161,297; Nov. 23; Gaz. vol. 220; p. 1150.
- Package-tie. E. F. Forsgard. No. 1,132,571; Mar. 23; Gaz. vol. 212; p. 1078.
- Package-tie. J. W. Heffley. No. 1,137,485; Apr. 27; Gaz. vol. 213; p. 1329.
- Package-tie. O. A. Isig. No. 1,155,239; Sept. 28; Gaz. vol. 218; p. 1102.
- Package-tie. E. F. King. No. 1,144,211; June 22; Gaz. vol. 215; p. 1195.
- Package-tie. L. H. Knoche. No. 1,165,785; Dec. 28; Gaz. vol. 221; p. 1191.
- Package-tie. R. L. Lynch. No. 1,156,791; Oct. 12; Gaz. vol. 219; p. 535.
- Package-tie. W. Rundquist. No. 1,163,777; Dec. 14; Gaz. vol. 221; p. 411.
- Package-tie. M. A. Sanders. No. 1,155,961; Oct. 5; Gaz. vol. 219; p. 221.
- Package-tie. W. H. Slawson. No. 1,131,279; Mar. 9; Gaz. vol. 212; p. 533.
- Package-tie. M. A. Smith. No. 1,141,018; May 25; Gaz. vol. 214; p. 1266.
- Package-tie. W. G. Smith. No. 1,129,368; Feb. 23; Gaz. vol. 211; p. 1071.
- Package-tie. F. C. Sparks. No. 1,151,058; Aug. 24; Gaz. vol. 217; p. 1132.
- Package-tie. H. R. Steelman. No. 1,147,825; July 27; Gaz. vol. 216; p. 1063.
- Package-tie. O. W. Stuch and R. E. Sturgis. No. 1,157,451; Oct. 19; Gaz. vol. 219; p. 800.
- Package tier. Adjustable letter. U. J. Burke. No. 1,139,100; May 11; Gaz. vol. 214; p. 524.
- Packages, Binding and handle-attaching tape for. S. J. Goldberg and A. Mendelson. No. 1,160,878; Nov. 16; Gaz. vol. 220; p. 955.
- Packages, Constructing. P. Butler. No. 1,152,598; Sept. 7; Gaz. vol. 218; p. 80.
- Packages, Curling-die for. A. B. Starr. No. 1,149,155; Aug. 3; Gaz. vol. 217; p. 235.
- Packages, Machine for forming long-flap wrapped. J. D. Reifsnnyder and H. G. Schwerdtle. No. 1,152,356; Aug. 31; Gaz. vol. 217; p. 1624.
- Packages, Machine for forming sealed wrapped. J. D. Reifsnnyder and H. G. Schwerdtle. No. 1,152,357; Aug. 31; Gaz. vol. 217; p. 1625.
- Packages, Machine for forming sealed wrapped. H. G. Schwerdtle. No. 1,131,741; Mar. 16; Gaz. vol. 212; p. 727.
- Packages, Machine for manufacturing outer covering material for. G. F. Bishopric. No. 1,129,949; Mar. 2; Gaz. vol. 212; p. 40.
- Packaging device. E. L. Calahan. No. 1,136,505; Apr. 20; Gaz. vol. 213; p. 941.
- Packaging-machine. J. P. Remington. No. 1,130,630; Mar. 2; Gaz. vol. 212; p. 276.
- Packer's cutting implement. J. R. Allais. No. 1,137,445; Apr. 27; Gaz. vol. 213; p. 1316.
- Packet-fastener. B. F. Freeman. No. 1,129,082; Feb. 23; Gaz. vol. 211; p. 970.
- Packet-making machines, Feeding device for. W. E. Molins. No. 1,144,772; June 29; Gaz. vol. 215; p. 1415.
- Packeting apparatus. W. Rose. No. 1,163,465; Dec. 7; Gaz. vol. 221; p. 256.
- Packeting, weighing, and delivering given quantities of granular or powdery material, Automatic machine for. G. Prokofiew. No. 1,137,284; Apr. 27; Gaz. vol. 213; p. 1258.
- Packing. A. Daum. No. 1,133,541; Mar. 30; Gaz. vol. 212; p. 1466.
- Packing. F. A. Headson. No. 1,128,247; Feb. 9; Gaz. vol. 211; p. 594.
- Packing. F. A. Headson. No. 1,161,213; Nov. 23; Gaz. vol. 220; p. 1120.
- Packing. G. McCadden. No. 1,139,306; May 11; Gaz. vol. 214; p. 593.
- Packing. A. J. Paige. No. 1,136,435; Apr. 20; Gaz. vol. 213; p. 917.
- Packing. A. Raimondi. No. 1,138,413; May 4; Gaz. vol. 214; p. 244.
- Packing. E. H. Smith. No. 1,147,564; July 20; Gaz. vol. 216; p. 946.
- Packing. C. E. Stokes. No. 1,151,227; Aug. 24; Gaz. vol. 217; p. 1191.
- Packing. G. F. Van Brunt. No. 1,137,367; Apr. 27; Gaz. vol. 213; p. 1288.
- Packing, Adjustable piston-ring. J. Carroll. No. 1,140,948; May 25; Gaz. vol. 214; p. 1243.
- Packing and making same. J. Crane. No. 1,151,344; Aug. 24; Gaz. vol. 217; p. 1228.
- Packing and making the same. W. C. Buhles. No. 1,162,026; Nov. 30; Gaz. vol. 220; p. 1450.
- Packing and making the same. Lubricating. A. Barberis. No. 1,145,877; July 13; Gaz. vol. 216; p. 336.
- Packing and mulching implement. L. T. Rasmussen. No. 1,132,118; Mar. 16; Gaz. vol. 212; p. 865.
- Packing and weighing machine. Material. W. S. Smith and H. W. Welsh. No. 1,134,705; Apr. 6; Gaz. vol. 213; p. 227.
- Packing and wrapping machine. E. D. Anderson. No. 1,151,233; Aug. 24; Gaz. vol. 217; p. 1193.
- Packing and wrapping machine. J. de Blonay. No. 1,136,412; Apr. 20; Gaz. vol. 213; p. 909.
- Packing articles, Apparatus and process for. I. A. Miliron. No. 1,132,668; Mar. 23; Gaz. vol. 212; p. 1114.
- Packing, Asbestos. A. Warrell. No. 1,143,153; June 15; Gaz. vol. 215; p. 800.
- Packing-box. C. A. Wells. No. 1,127,135; Feb. 2; Gaz. vol. 211; p. 166.
- Packing-box, Collapsible. L. E. Mendelman. No. 1,147,257; July 20; Gaz. vol. 216; p. 839.
- Packing-box for mantles, &c. E. L. Knoedler. No. 1,145,491; July 6; Gaz. vol. 216; p. 181.
- Packing-box for mantles, &c. E. L. Knoedler. No. 1,153,932; Sept. 21; Gaz. vol. 218; p. 627.
- Packing-case. C. H. Foyle. No. 1,124,122; Jan. 5; Gaz. vol. 210; p. 314.
- Packing-case. C. M. Willock. No. 1,146,116; July 13; Gaz. vol. 216; p. 419.
- Packing-case, Collapsible metal. C. G. Webster. No. 1,132,812; Mar. 23; Gaz. vol. 212; p. 1169.
- Packing case for fragile articles. J. N. Hahn. No. 1,156,074; Oct. 12; Gaz. vol. 219; p. 287.
- Packing, Engine or machine. G. W. Beldam. No. 1,128,745; Feb. 16; Gaz. vol. 211; p. 816.
- Packing for bearings. R. Roderwald. No. 1,152,223; Aug. 31; Gaz. vol. 217; p. 1578.
- Packing for crank-cases of internal-combustion engines. W. Macdonald, Jr. No. 1,161,492; Nov. 23; Gaz. vol. 220; p. 1219.
- Packing for piston-rods. Metallic. J. Badeker. No. 1,134,091; Apr. 6; Gaz. vol. 213; p. 3.
- Packing for pistons and valve-stems. H. G. Hogan. No. 1,162,062; Nov. 30; Gaz. vol. 220; p. 1463.
- Packing for rods and the like. R. Allen. No. 1,165,486; Dec. 28; Gaz. vol. 221; p. 1086.
- Packing for stuffing-boxes. A. J. Bailey. No. 1,158,770; Nov. 2; Gaz. vol. 220; p. 127.
- Packing, Making valve. F. Y. Nichols. No. 1,162,384; Nov. 30; Gaz. vol. 220; p. 1574.
- Packing, Metallic. P. H. Batten. No. 1,138,178; May 4; Gaz. vol. 214; p. 161.
- Packing or shipping box. E. C. Potter. No. 1,146,515; July 13; Gaz. vol. 216; p. 561.
- Packing or shipping box. E. C. Potter. No. 1,146,516; July 13; Gaz. vol. 216; p. 562.
- Packing or shipping box. E. C. Potter. No. 1,146,517; July 13; Gaz. vol. 216; p. 562.
- Packing or shipping box. E. C. Potter. No. 1,158,715; Nov. 2; Gaz. vol. 220; p. 106.
- Packing or shipping box. E. C. Potter. No. 1,159,338; Nov. 2; Gaz. vol. 220; p. 323.
- Packing or shipping box. E. C. Potter. No. 1,164,314; Dec. 14; Gaz. vol. 221; p. 597.
- Packing or shipping case. J. C. Loewenguth. No. 1,126,237; Jan. 26; Gaz. vol. 210; p. 1189.
- Packing, Piston-. L. A. Laursen. No. 1,130,615; Mar. 2; Gaz. vol. 212; p. 271.
- Packing, Piston-. F. E. Small. No. 1,129,910; Mar. 2; Gaz. vol. 212; p. 26.
- Packing, Piston-. G. S. Towne. No. 1,155,018; Sept. 28; Gaz. vol. 218; p. 1026.
- Packing, Piston-rod. F. W. Fritchey. No. 1,128,123; Feb. 9; Gaz. vol. 211; p. 552.

- Packing, Piston-rod. C. I. E. Mastin. No. 1,150,050; Aug. 17; Gaz. vol. 217; p. 723.
- Packing-ring. F. L. Bowen and W. I. Cook. No. 1,152,277; Aug. 31; Gaz. vol. 217; p. 1596.
- Packing-ring. E. B. Campbell. No. 1,132,762; Mar. 23; Gaz. vol. 212; p. 1149.
- Packing-ring. E. B. Campbell. No. 1,136,506; Apr. 20; Gaz. vol. 213; p. 941.
- Packing-ring. R. H. Haggard. No. 1,151,265; Aug. 24; Gaz. vol. 217; p. 1203.
- Packing-ring. F. Simons. No. 1,133,672; Mar. 30; Gaz. vol. 212; p. 1515.
- Packing-ring. A. D. Whidden. No. 1,139,004; May 11; Gaz. vol. 214; p. 490.
- Packing ring and valve, Combined. B. C. Kenyon. No. 1,157,162; Oct. 19; Gaz. vol. 219; p. 697.
- Packing-ring for pipe-fittings. G. I. Rockwood. No. 1,133,320; Mar. 30; Gaz. vol. 212; p. 1386.
- Packing-ring for piston-rods. C. R. Bryant. No. 1,152,002; Aug. 31; Gaz. vol. 217; p. 1501.
- Packing-ring, Metallic. C. E. Lucke. No. 1,148,600; Aug. 3; Gaz. vol. 217; p. 42.
- Packing-ring, Metallic. H. P. Rhodes. No. 1,136,271; Apr. 20; Gaz. vol. 213; p. 857.
- Packing-ring, Piston. W. Lovatt. No. 1,144,486; June 29; Gaz. vol. 215; p. 1317.
- Packing-ring, Piston. E. A. Sorenson. No. 1,126,898; Feb. 2; Gaz. vol. 211; p. 82.
- Packing-rings, Machine for truing standing-valve. A. E. Swaim. No. 1,165,635; Dec. 28; Gaz. vol. 221; p. 1139.
- Packing-rings, Making. J. B. Wenzel. No. 1,166,099; Dec. 28; Gaz. vol. 221; p. 1300.
- Packing, Rod-. G. L. Phillips. No. 1,142,980; June 15; Gaz. vol. 215; p. 740.
- Packing, Shaft-. C. Nill. No. 1,124,641; Jan. 12; Gaz. vol. 210; p. 550.
- Packing, Sheet-. D. S. Paterson. No. 1,160,316; Nov. 16; Gaz. vol. 220; p. 755.
- Packing-spider. W. S. Taylor and F. G. Liady. No. 1,151,136; Aug. 24; Gaz. vol. 217; p. 1153.
- Packing-wheel for listers. W. Wentz. No. 1,165,735; Dec. 28; Gaz. vol. 221; p. 1175.
- Pad. See—
- | | |
|-----------------------|---------------|
| Coat-pad. | Knee-pad. |
| Collar-pad. | Neck-pad. |
| Electric heating-pad. | Paper-pad. |
| Fibrous-pad. | Pedal-pad. |
| Furniture-pad. | Pouncing-pad. |
| Harness-pad. | Recoil-pad. |
| Headache-pad. | Saddle-pad. |
| Heating-pad. | Shoulder-pad. |
| Heel-pad. | Stamping-pad. |
| Hoof-pad. | Table-pad. |
| Horseshoe-pad. | Truss-pad. |
| Illuminated note-pad. | Veneer pad. |
| Ironing-pad. | |
- Pad. W. H. Fox. No. 1,128,122; Feb. 9; Gaz. vol. 211; p. 552.
- Pad and holder. G. Seelman, Jr. No. 1,165,720; Dec. 28; Gaz. vol. 221; p. 1169.
- Pad-holder. C. T. Raschick. No. 1,129,311; Feb. 23; Gaz. vol. 211; p. 1051.
- Pad-holder. W. A. Reed. No. 1,143,725; June 22; Gaz. vol. 215; p. 1023.
- Pad holder, Transfer-. W. F. Beuther. No. 1,155,296; Sept. 28; Gaz. vol. 218; p. 1119.
- Pad-machine. A. D. Alexander. No. 1,164,591; Dec. 14; Gaz. vol. 221; p. 693.
- Padlock. A. N. Constantiniides. No. 1,160,694; Nov. 16; Gaz. vol. 220; p. 893.
- Padlock. J. Dizmaček. No. 1,126,417; Jan. 26; Gaz. vol. 210; p. 1251.
- Padlock. C. A. Erichson. No. 1,127,213; Feb. 2; Gaz. vol. 211; p. 194.
- Padlock. F. I. Kimball. No. 1,128,004; Feb. 9; Gaz. vol. 211; p. 511.
- Padlock. J. Mittski. No. 1,160,433; Nov. 16; Gaz. vol. 220; p. 795.
- Padlock. S. Pellegrino. No. 1,146,443; July 13; Gaz. vol. 216; p. 535.
- Padlock. J. S. Rogers. No. 1,153,405; Sept. 14; Gaz. vol. 218; p. 407.
- Padlock. E. J. Shipman. No. 1,165,545; Dec. 28; Gaz. vol. 221; p. 1106.
- Padlock. S. R. Slaymaker and G. M. Miller. No. 1,151,623; Aug. 31; Gaz. vol. 217; p. 1372.
- Padlock. F. Soley. No. 1,142,638; June 8; Gaz. vol. 215; p. 581.
- Padlock. J. E. Veiga. No. 1,138,333; May 4; Gaz. vol. 214; p. 216.
- Padlock. I. P. Vugrinovic. No. 1,149,230; Aug. 10; Gaz. vol. 217; p. 366.
- Padlock. F. Wojtkowski and D. Radziszewski. No. 1,130,787; Mar. 9; Gaz. vol. 212; p. 364.
- Padlock. M. Yakus. No. 1,133,523; Mar. 30; Gaz. vol. 212; p. 1459.
- Padlock, Combination-. L. Alanchikoff. No. 1,147,133; July 20; Gaz. vol. 216; p. 794.
- Padlock, Keyless. W. T. Burgess. No. 1,149,022; Aug. 8; Gaz. vol. 217; p. 190.
- Padlock, Keyless. E. Erickson. No. 1,150,353; Aug. 17; Gaz. vol. 217; p. 832.
- Padlock, Keyless. R. Moses. No. 1,165,892; Dec. 28; Gaz. vol. 221; p. 1228.
- Padlock, Permutation-. J. S. Forbes and R. H. Poston. No. 1,137,960; May 4; Gaz. vol. 214; p. 84.
- Padlock, Permutation-. M. J. Lovett. No. 1,139,986; May 18; Gaz. vol. 214; p. 870.
- Padlock, Permutation-. U. Reidt. No. 1,141,827; June 1; Gaz. vol. 215; p. 259.
- Padlock, Sliding-shackle. F. Prokop. No. 1,140,285; May 18; Gaz. vol. 214; p. 974.
- Page compressor and justifier. R. Langseth. No. 1,130,829; Mar. 9; Gaz. vol. 212; p. 378.
- Pail. J. T. A. Fellow. No. 1,131,731; Mar. 16; Gaz. vol. 212; p. 723.
- Pail. P. Zodac. No. 1,164,050; Dec. 14; Gaz. vol. 221; p. 507.
- Pail and cover therefor, Milking-. H. G. Purinton. No. 1,126,564; Jan. 26; Gaz. vol. 210; p. 1307.
- Pail and wringer, Mop. L. B. Ellis. No. 1,148,490; July 27; Gaz. vol. 216; p. 1299.
- Pail attachment, Milk-. A. O. Row. No. 1,135,848; Apr. 13; Gaz. vol. 213; p. 668.
- Pail attachment, Milking-. E. G. Powers. No. 1,140,528; May 25; Gaz. vol. 214; p. 1098.
- Pail, Combination feed and water. H. Klenert. No. 1,145,150; July 6; Gaz. vol. 216; p. 62.
- Pail-cover. A. W. Lange. No. 1,124,466; Jan. 12; Gaz. vol. 210; p. 486.
- Pail-cover, Adjustable. J. G. Friberg. No. 1,160,061; Nov. 9; Gaz. vol. 220; p. 611.
- Pail-covers, Machine for crimping. L. I. Stevens. No. 1,151,134; Aug. 24; Gaz. vol. 217; p. 1157.
- Pail, Dinner-. R. W. Kennedy and C. V. Brokenicky. No. 1,145,149; July 6; Gaz. vol. 216; p. 61.
- Pail, Dinner-. G. W. Oaks. No. 1,129,714; Feb. 23; Gaz. vol. 211; p. 1188.
- Pail heater, Dinner-. W. M. Tilton. No. 1,123,956; Jan. 5; Gaz. vol. 210; p. 258.
- Pail-holder. E. A. Snell. No. 1,157,333; Oct. 19; Gaz. vol. 219; p. 758.
- Pail, Milk-. E. S. Sutton. No. 1,165,555; Dec. 28; Gaz. vol. 221; p. 1109.
- Pail, Milking-. J. Willson. No. 1,145,176; July 6; Gaz. vol. 216; p. 70.
- Pail, Nursing-. E. Thiel. No. 1,126,316; Jan. 26; Gaz. vol. 210; p. 1216.
- Pail rack, Sanitary candy-. J. O. Wiles. No. 1,138,340; May 4; Gaz. vol. 214; p. 218.
- Pail-support. J. A. Sherwood. No. 1,144,072; June 22; Gaz. vol. 215; p. 1144.
- Pail support, Milk-. M. H. Lien. No. 1,165,188; Dec. 21; Gaz. vol. 221; p. 945.
- Pail support, Milking-. J. F. Horne. No. 1,124,441; Jan. 12; Gaz. vol. 210; p. 476.
- Pails, Sanitary attachment for milk-. J. T. Williams. No. 1,140,224; May 18; Gaz. vol. 214; p. 954.
- Paint. W. Chadd. No. 1,134,819; Apr. 6; Gaz. vol. 213; p. 267.
- Paint. J. H. Matthes. No. 1,145,782; July 6; Gaz. vol. 216; p. 282.
- Paint. L. S. Van Westrum. No. 1,127,831; Feb. 9; Gaz. vol. 211; p. 451.
- Paint and making the same. H. Jamson. No. 1,144,599; June 29; Gaz. vol. 215; p. 1355.
- Paint and varnish. A. Eichler. No. 1,133,433; Mar. 30; Gaz. vol. 212; p. 1427.
- Paint and varnish remover. H. Birchall. No. 1,165,148; Dec. 21; Gaz. vol. 221; p. 931.
- Paint and varnish remover. C. Ellis. No. 1,143,110; June 15; Gaz. vol. 215; p. 786.
- Paint and varnish remover. C. Ellis. No. 1,143,111; June 15; Gaz. vol. 215; p. 786.
- Paint and varnish remover. C. Ellis. No. 1,146,854; July 20; Gaz. vol. 216; p. 697.
- Paint and varnish remover. A. E. Nienstadt. No. 1,143,130; June 15; Gaz. vol. 215; p. 792.
- Paint and varnish remover. J. M. Wilson and C. N. Forrest. No. 1,129,770; Feb. 23; Gaz. vol. 211; p. 1208.
- Paint, Atomizing liquid compositions such as. F. Levy. No. 1,128,697; Feb. 16; Gaz. vol. 211; p. 799.
- Paint composition. J. A. Unglaub. No. 1,129,764; Feb. 23; Gaz. vol. 211; p. 1206.
- Paint composition, Priming. H. J. Greene. No. 1,150,516; Aug. 17; Gaz. vol. 217; p. 888.
- Paint-mill or mill to take a fluid. T. J. R. and H. N. Torrance. No. 1,129,142; Feb. 23; Gaz. vol. 211; p. 992.
- Paint-mixer. G. Voss. No. 1,138,815; May 11; Gaz. vol. 214; p. 423.
- Paint or coating, Fabrication of heat and acid proof. E. R. Stowell. No. 1,164,670; Dec. 21; Gaz. vol. 221; p. 763.
- Paint or varnish remover. C. Ellis. No. 1,147,848; July 27; Gaz. vol. 216; p. 1073.
- Paint or varnish remover. C. Ellis. No. 1,147,849; July 27; Gaz. vol. 216; p. 1073.
- Paint-pot. A. C. Webster. No. 1,157,475; Oct. 19; Gaz. vol. 219; p. 803.
- Paint-prints, Making. O. R. Petrelius. No. 1,161,881; Nov. 30; Gaz. vol. 220; p. 1399.
- Paint-remover. W. Alexander. No. 1,143,878; June 22; Gaz. vol. 215; p. 1076.

Alphabetical list of inventions—Continued.

- Paint-remover composition. W. Alexander. No. 1,143,877; June 22; Gaz. vol. 215; p. 1076.
- Paints and printing-colors, Manufacture of. N. W. Turkin. No. 1,164,036; Dec. 14; Gaz. vol. 221; p. 501.
- Paints and the like, Making anticorrosive. R. Eberhard. No. 1,145,186; July 6; Gaz. vol. 216; p. 74.
- Paints and the like, Non-inflammable solvent for. G. Whigelt. No. 1,156,119; Oct. 12; Gaz. vol. 219; p. 302.
- Painter's guard. A. D. Welty, Sr. No. 1,158,348; Oct. 26; Gaz. vol. 219; p. 1174.
- Painter's hook. J. E. Warren. No. 1,152,677; Sept. 7; Gaz. vol. 218; p. 110.
- Painter's platform. W. C. Gaw. No. 1,142,955; June 15; Gaz. vol. 215; p. 731.
- Painter's rack and buggy-jack, Carriage-. H. B. Steele. No. 1,133,411; Mar. 30; Gaz. vol. 212; p. 1420.
- Painting and drying projectiles, Machine for. W. Yellowley. No. 1,153,529; Sept. 14; Gaz. vol. 218; p. 452.
- Painting machine, Pipe-. R. H. Hubbell. No. 1,159,676; Nov. 9; Gaz. vol. 220; p. 475.
- Painting tin and other metals, Machine for. W. E. Philipp. No. 1,141,209; June 1; Gaz. vol. 215; p. 42.
- Pajamas. S. Elbaum. No. 1,148,367; July 27; Gaz. vol. 216; p. 1259.
- Pamphlet-covering machine. A. Dworak. No. 1,141,785; June 1; Gaz. vol. 215; p. 245.
- Pan: See—
- | | |
|--------------------------|-------------------------|
| Ash-pan. | Drip-pan. |
| Baker's double tin stick | Dust-pan. |
| lady-lock pan. | Filtering-pan. |
| Baking-pan. | Refrigerator drain-pan. |
| Bed-pan. | Roller-pan. |
| Broiler-pan. | Vacuum-pan. |
| Dish-pan. | |
- Pan and plate lifter. E. D. Schmitt. No. 1,137,536; Apr. 27; Gaz. vol. 213; p. 1346.
- Pan cleaning and greasing machine. H. Gottschalk. No. 1,153,683; Sept. 14; Gaz. vol. 218; p. 505.
- Pan construction, Multiple-. E. F. Lockwood. No. 1,149,927; Aug. 10; Gaz. vol. 217; p. 620.
- Pan construction, Multiple-. E. F. Lockwood. No. 1,149,928; Aug. 10; Gaz. vol. 217; p. 620.
- Pan handle and lifter. J. J. Duket. No. 1,145,060; July 6; Gaz. vol. 216; p. 31.
- Pan-lifter. J. W. Brown. No. 1,123,988; Jan. 5; Gaz. vol. 210; p. 267.
- Pan-lifter. J. Donnelly. No. 1,151,672; Aug. 31; Gaz. vol. 217; p. 1387.
- Pan-lifter. G. C. Poundstone. No. 1,137,896; May 4; Gaz. vol. 214; p. 60.
- Pan-lifter. J. Wasik. No. 1,140,781; May 25; Gaz. vol. 214; p. 1181.
- Pan-lifter. P. H. Wilson. No. 1,162,273; Nov. 30; Gaz. vol. 220; p. 1538.
- Pan-lifter. J. H. Wolford. No. 1,148,646; Aug. 3; Gaz. vol. 217; p. 59.
- Pans and the like, Machine for folding the corners of. E. Katzinger. No. 1,153,313; Sept. 14; Gaz. vol. 218; p. 372.
- Pane-fastener. W. T. Day. No. 1,151,571; Aug. 31; Gaz. vol. 217; p. 1353.
- Panel-board fitting. H. U. Badeau. No. 1,141,032; May 25; Gaz. vol. 214; p. 1271.
- Panel-board, Metering. A. C. McWilliams. No. 1,137,413; Apr. 27; Gaz. vol. 213; p. 1305.
- Panel-board receptacle. C. D. Platt. No. 1,127,088; Feb. 2; Gaz. vol. 211; p. 150.
- Panel-boards, Binding device for. R. H. Olley. No. 1,166,149; Dec. 28; Gaz. vol. 221; p. 1320.
- Panel-work, Sheet-metal. M. Lachman. No. 1,154,254; Sept. 21; Gaz. vol. 218; p. 737.
- Panic-bolt. A. A. Page. No. 1,143,776; June 22; Gaz. vol. 215; p. 1040.
- Panic-bolt. H. G. Voight. No. 1,163,795; Dec. 14; Gaz. vol. 221; p. 418.
- Panic-bolt construction. H. F. Hill. No. 1,141,338; June 1; Gaz. vol. 215; p. 89.
- Panic-bolt mechanism. R. S. Gold. No. 1,130,266; Mar. 2; Gaz. vol. 212; p. 147.
- Panoramic tilting device. E. Schneider. No. 1,150,304; Aug. 17; Gaz. vol. 217; p. 815.
- Paper adhesive on one side and product, Manufacturing non-curling. M. Knappstein. No. 1,148,783; Aug. 3; Gaz. vol. 217; p. 108.
- Paper and cloth, Abrasive. R. B. Manley. No. 1,161,497; Nov. 23; Gaz. vol. 220; p. 1221.
- Paper and making the same, Coated. H. Wrede. No. 1,147,996; July 27; Gaz. vol. 216; p. 1124.
- Paper and manufacture of same, Waterproof. J. Kindberger. No. 1,126,783; Feb. 2; Gaz. vol. 211; p. 42.
- Paper and similar fabrics, Means for delivering moistened or glue-coated. A. M. Chaffee. No. 1,138,538; May 4; Gaz. vol. 214; p. 286.
- Paper and the like crimping machine. H. C. Baster. No. 1,136,086; Apr. 20; Gaz. vol. 213; p. 790.
- Paper and the like, Holder for blotting-. B. S. Smith. No. 1,165,649; Dec. 28; Gaz. vol. 221; p. 1107.
- Paper and the like, Producing a transparent panel in. W. E. Swift. No. 1,123,422; Jan. 5; Gaz. vol. 210; p. 77.
- Paper and twine cutter. F. L. Antilla and A. I. Lillis. No. 1,134,500; Apr. 6; Gaz. vol. 213; p. 152.
- Paper, Apparatus for controlling the thickness of. H. Brown. No. 1,157,204; Oct. 19; Gaz. vol. 219; p. 712.
- Paper, Apparatus for forming hollow ware of. E. G. Willard. No. 1,151,843; Aug. 31; Gaz. vol. 217; p. 1447.
- Paper, Apparatus for producing thin sections in. P. Weston. No. 1,155,853; Oct. 5; Gaz. vol. 219; p. 185.
- Paper, Apparatus for supplying waterproofing material to. G. R. Wyman. No. 1,152,136; Aug. 31; Gaz. vol. 217; p. 1548.
- Paper articles, Interleaved. C. L. Johnston and H. P. Brown. No. 1,141,395; June 1; Gaz. vol. 215; p. 111.
- Paper-associating machine. C. D. Curry. No. 1,155,894; Oct. 5; Gaz. vol. 219; p. 198.
- Paper-associating machines, Feeding mechanism for. C. D. Curry. (Reissue.) No. 13,895; Mar. 30; Gaz. vol. 212; p. 1657.
- Paper bag. H. A. Barnard. No. 1,133,911. Mar. 30; Gaz. vol. 212; p. 1597.
- Paper bag. H. A. Genest. No. 1,158,042; Oct. 26; Gaz. vol. 219; p. 1068.
- Paper bag. J. H. McKendrick. No. 1,134,341; Apr. 6; Gaz. vol. 213; p. 94.
- Paper bag and the like. G. E. Whritenour. No. 1,164,688; Dec. 21; Gaz. vol. 221; p. 769.
- Paper-bag machines, Diamond-forming means of. J. Duval. No. 1,165,765; Dec. 28; Gaz. vol. 221; p. 1185.
- Paper-bag-making apparatus. T. M. Avery. No. 1,144,630; June 29; Gaz. vol. 215; p. 1365.
- Paper bags and the like, Holder for. M. H. Balch and F. Lange. No. 1,131,310; Mar. 9; Gaz. vol. 212; p. 544.
- Paper bags, Making round-bottomed. L. M. Johnston. No. 1,127,258; Feb. 2; Gaz. vol. 211; p. 209.
- Paper barrel. M. Waddell. No. 1,128,826; Feb. 16; Gaz. vol. 211; p. 845.
- Paper-binding clip. L. E. Baltzley. No. 1,139,627; May 18; Gaz. vol. 214; p. 744.
- Paper-board, Apparatus for manufacturing corrugated. W. F. Harbrecht. No. 1,144,413; June 29; Gaz. vol. 215; p. 1292.
- Paper-board box. G. B. Streit. No. 1,126,123; Jan. 26; Gaz. vol. 210; p. 1146.
- Paper-board box. G. B. Streit. No. 1,162,887; Dec. 7; Gaz. vol. 221; p. 53.
- Paper-board box, Reinforced. E. M. Hawkins. No. 1,158,130; Oct. 26; Gaz. vol. 219; p. 1099.
- Paper-board, Machine for making corrugated. J. T. Ferres. No. 1,142,409; June 8; Gaz. vol. 215; p. 503.
- Paper-board-making machine. E. O. Babcock. No. 1,143,931; June 22; Gaz. vol. 215; p. 1094.
- Paper-board, sized paper, &c., Machine for drying. H. P. Coe. No. 1,125,659; Jan. 19; Gaz. vol. 210; p. 946.
- Paper bottle. H. C. Ayerst. No. 1,161,759; Nov. 23; Gaz. vol. 220; p. 1310.
- Paper-bottle-bottoming machine. H. D. Caylor and W. A. Scott. No. 1,164,921; Dec. 21; Gaz. vol. 221; p. 850.
- Paper-bottle-forming machine. M. P. Janisch. No. 1,134,272; Apr. 6; Gaz. vol. 213; p. 69.
- Paper bottles liquid-tight, Rendering. G. W. Beadle. No. 1,154,282; Sept. 21; Gaz. vol. 218; p. 747.
- Paper box. W. J. Burt. No. 1,163,209; Dec. 7; Gaz. vol. 221; p. 166.
- Paper box. M. H. Dague. No. 1,157,298; Oct. 19; Gaz. vol. 219; p. 745.
- Paper box. M. S. Downey and E. J. Wood. No. 1,125,902; Jan. 19; Gaz. vol. 210; p. 1032.
- Paper box. H. Hellweg. No. 1,123,289; Jan. 5; Gaz. vol. 210; p. 30.
- Paper box. J. L. Jones. No. 1,141,343; June 1; Gaz. vol. 215; p. 91.
- Paper box. K. A. Kendrick. No. 1,135,588; Apr. 13; Gaz. vol. 213; p. 576.
- Paper box. J. M. Puley. No. 1,138,788; May 11; Gaz. vol. 214; p. 413.
- Paper box. L. P. Rexford. No. 1,152,844; Sept. 7; Gaz. vol. 218; p. 171.
- Paper box. L. P. Rexford. No. 1,160,760; Nov. 16; Gaz. vol. 220; p. 914.
- Paper box. E. N. Simoneaux. No. 1,129,909; Mar. 2; Gaz. vol. 212; p. 26.
- Paper box. P. S. Smith. No. 1,149,412; Aug. 10; Gaz. vol. 217; p. 433.
- Paper box. R. A. Wood. No. 1,162,840; Dec. 7; Gaz. vol. 221; p. 39.
- Paper box. J. C. Zemlo. No. 1,155,986; Oct. 5; Gaz. vol. 219; p. 229.
- Paper box-blanks, Machine for making corrugated. J. F. Jones, L. P. Rexford, and H. N. Gores. No. 1,123,885; Jan. 5; Gaz. vol. 210; p. 234.
- Paper-box bodies, Machine for making necked-in. E. Jagenberg. No. 1,158,923; Nov. 2; Gaz. vol. 220; p. 180.
- Paper-box-clamping device. C. T. Dunn. No. 1,138,200; May 4; Gaz. vol. 214; p. 168.
- Paper-box-covering machine. A. D. and F. K. Knowlton. No. 1,133,038; Mar. 23; Gaz. vol. 212; p. 1252.
- Paper box, Folding. W. L. Stevens. No. 1,156,444; Oct. 12; Gaz. vol. 219; p. 414.
- Paper box, Folding. C. A. Petterson. No. 1,132,877; Mar. 23; Gaz. vol. 212; p. 1192.
- Paper box, Folding. G. M. Voris. No. 1,135,742; Apr. 13; Gaz. vol. 213; p. 631.

Alphabetical list of inventions—Continued.

- Paper-box handle. C. J. Freese. No. 1,141,789; June 1; Gaz. vol. 215; p. 247.
- Paper-box handle. L. D. Morton. No. 1,154,043; Sept. 21; Gaz. vol. 218; p. 665.
- Paper-box handle attachment. L. D. Morton. No. 1,158,707; Nov. 2; Gaz. vol. 220; p. 103.
- Paper-box machine. E. W. Labombarde. No. 1,161,227; Nov. 23; Gaz. vol. 220; p. 1125.
- Paper-box machine. E. H. Taylor. No. 1,161,996; Nov. 30; Gaz. vol. 220; p. 1440.
- Paper-box making and charging machine. E. Jagenberg. No. 1,125,331; Jan. 19; Gaz. vol. 210; p. 830.
- Paper box or carton. A. T. Rhodes. No. 1,155,686; Oct. 5; Gaz. vol. 219; p. 126.
- Paper-box-topping machine. S. T. Hobbs. No. 1,131,241; Mar. 9; Gaz. vol. 212; p. 519.
- Paper-box-topping machine. E. G. Staude. No. 1,163,043; Dec. 7; Gaz. vol. 221; p. 108.
- Paper-box-topping machine, Automatic. E. G. Staude. No. 1,134,562; Apr. 6; Gaz. vol. 213; p. 175.
- Paper boxes, Cap-ferrule for. J. R. Harbeck. No. 1,130,816; Mar. 9; Gaz. vol. 212; p. 373.
- Paper boxes, Machine for the manufacture of. E. Schlegel. No. 1,163,863; Dec. 14; Gaz. vol. 221; p. 441.
- Paper boxes, Making. F. J. Motz. No. 1,136,479; Apr. 20; Gaz. vol. 213; p. 932.
- Paper bracket, Toilet-. A. J. McKee. No. 1,165,524; Dec. 28; Gaz. vol. 221; p. 1099.
- Paper-bulker. A. N. Russell. No. 1,145,924; July 13; Gaz. vol. 216; p. 351.
- Paper can or receptacle. H. W. Jones. No. 1,130,825; Mar. 9; Gaz. vol. 212; p. 377.
- Paper carton. J. K. P. Bingaman. No. 1,150,488; Aug. 17; Gaz. vol. 217; p. 878.
- Paper carton. J. K. P. Bingaman. No. 1,150,489; Aug. 17; Gaz. vol. 217; p. 879.
- Paper-carton opener. A. I. Platt. No. 1,129,310; Feb. 23; Gaz. vol. 211; p. 1050.
- Paper cartons, Machine for crimping. G. W. Beadle. No. 1,125,042; Jan. 19; Gaz. vol. 210; p. 726.
- Paper cartons, Machine for making. G. W. Beadle. No. 1,134,808; Apr. 6; Gaz. vol. 213; p. 264.
- Paper cartons, Machine for manufacturing. A. B. Starr. No. 1,161,545; Nov. 23; Gaz. vol. 220; p. 1238.
- Paper casing for agricultural forks. E. D. Lowell. No. 1,161,707; Nov. 23; Gaz. vol. 220; p. 1292.
- Paper casing for hose. E. D. Lowell. No. 1,152,957; Sept. 7; Gaz. vol. 218; p. 212.
- Paper-clasp. H. E. Bicknell. No. 1,163,127; Dec. 7; Gaz. vol. 221; p. 137.
- Paper-clip. A. J. Gifford. No. 1,152,406; Sept. 7; Gaz. vol. 218; p. 9.
- Paper-clip. N. L. Griffin. No. 1,151,943; Aug. 31; Gaz. vol. 217; p. 1480.
- Paper-clip. W. P. J. Murray. No. 1,160,190; Nov. 16; Gaz. vol. 220; p. 712.
- Paper-clip. R. L. Plummer. No. 1,133,664; Mar. 30; Gaz. vol. 212; p. 1512.
- Paper-coating composition and making the same. A. A. Dunham. No. 1,141,951; June 8; Gaz. vol. 215; p. 339.
- Paper-coating machines, Apparatus for stirring and supplying color to. F. C. Heywood. No. 1,164,812; Dec. 21; Gaz. vol. 221; p. 812.
- Paper condenser. A. Prussman. No. 1,127,513; Feb. 9; Gaz. vol. 211; p. 339.
- Paper container. H. S. Brewington. No. 1,125,644; Jan. 19; Gaz. vol. 210; p. 940.
- Paper container. M. Lachman. No. 1,138,120; May 4; Gaz. vol. 214; p. 141.
- Paper container for wool. J. P. Tirrell. No. 1,160,961; Nov. 16; Gaz. vol. 220; p. 985.
- Paper containers, Construction of. A. F. Rietzel. No. 1,138,150; May 4; Gaz. vol. 214; p. 151.
- Paper, Crimped. J. D. Tompkins and F. H. Fuller. No. 1,143,333; June 15; Gaz. vol. 215; p. 864.
- Paper cup-bodies, Machine for forming. H. F. Provandie. No. 1,124,517; Jan. 12; Gaz. vol. 210; p. 504.
- Paper-cup-making machine. G. W. Beadle. No. 1,135,986; Apr. 20; Gaz. vol. 213; p. 758.
- Paper cups, Heating apparatus for wax-coated. L. W. Farmer. No. 1,129,385; Feb. 23; Gaz. vol. 211; p. 1077.
- Paper cups, Machine for cutting bottom pieces for. H. F. Provandie and E. H. Whitney. No. 1,124,516; Jan. 12; Gaz. vol. 210; p. 503.
- Paper cups with rolled edges, Apparatus for making. G. J. Bohlman. No. 1,155,787; Oct. 5; Gaz. vol. 219; p. 161.
- Paper-currency and bill counting machine. A. Von Barth. No. 1,146,908; July 20; Gaz. vol. 216; p. 716.
- Paper-cutter. F. E. Burns. No. 1,125,458; Jan. 19; Gaz. vol. 210; p. 876.
- Paper-cutter. A. S. Kalenborn. No. 1,131,141; Mar. 9; Gaz. vol. 212; p. 485.
- Paper-cutter, Automatic. A. H. Handy. No. 1,159,837; Nov. 9; Gaz. vol. 220; p. 535.
- Paper cutter, Wrapping-. S. Stamirowski. No. 1,135,859; Apr. 13; Gaz. vol. 213; p. 672.
- Paper-cutting machine. W. C. Carlson. No. 1,125,648; Jan. 19; Gaz. vol. 210; p. 942.
- Paper-cutting machine. L. T. Curran and J. H. Wildener. No. 1,162,343; Nov. 30; Gaz. vol. 220; p. 1561.
- Paper-cutting machine. C. Seybold. No. 1,132,626; Mar. 23; Gaz. vol. 212; p. 1099.
- Paper-cutting machine J. H. Stonemetz. No. 1,143,237; June 15; Gaz. vol. 215; p. 832.
- Paper-cutting machines and the like, Cutting-stick for. C. B. Russell. No. 1,123,386; Jan. 5; Gaz. vol. 210; p. 65.
- Paper-cutting mechanism. C. F. Schutte. No. 1,145,039; July 6; Gaz. vol. 216; p. 23.
- Paper-delivering apparatus. G. K. Henderson. No. 1,133,959; Mar. 30; Gaz. vol. 212; p. 1612.
- Paper dish. H. E. Maxwell. No. 1,127,480; Feb. 9; Gaz. vol. 211; p. 327.
- Paper-dispenser and carton-holder. M. M. Cohn. No. 1,148,757; Aug. 3; Gaz. vol. 217; p. 99.
- Paper-dispensing rack, Wrapping-. R. E. Taylor. No. 1,159,619; Nov. 9; Gaz. vol. 220; p. 456.
- Paper-drier. H. L. Kutter. No. 1,130,179; Mar. 2; Gaz. vol. 212; p. 117.
- Paper drying and finishing machine. C. H. Case. No. 1,162,977; Dec. 7; Gaz. vol. 221; p. 84.
- Paper-drying apparatus. B. R. Andrews and C. J. Merrill. No. 1,123,464; Jan. 5; Gaz. vol. 210; p. 92.
- Paper-drying apparatus, Coated-. A. T. Fosbraey. No. 1,144,896; June 29; Gaz. vol. 215; p. 1458.
- Paper-drying machine. A. Aldrich. No. 1,139,625; May 18; Gaz. vol. 214; p. 742.
- Paper-drying machine. J. O. Woodsome. No. 1,129,156; Feb. 23; Gaz. vol. 211; p. 996.
- Paper drinking-cup. H. F. Provandie. No. 1,125,171; Jan. 19; Gaz. vol. 210; p. 773.
- Paper-ejecting mechanism. H. C. Gammeter. No. 1,148,509; Aug. 3; Gaz. vol. 217; p. 9.
- Paper extract-holding cup. A. J. Mills. No. 1,157,568; Oct. 19; Gaz. vol. 219; p. 838.
- Paper-facing machine, Corrugated-. J. N. Hahn. No. 1,161,208; Nov. 23; Gaz. vol. 220; p. 1118.
- Paper-facing machine, Corrugated-. G. W. Swift, Jr. (Reissue.) No. 13,863; Jan. 5; Gaz. vol. 210; p. 365.
- Paper-fastener. J. E. Arant. No. 1,146,231; July 13; Gaz. vol. 216; p. 460.
- Paper-fastener. D. W. Gage. No. 1,130,589; Mar. 2; Gaz. vol. 212; p. 262.
- Paper-fastener. D. W. Gage. No. 1,130,590; Mar. 2; Gaz. vol. 212; p. 263.
- Paper-fastener. J. C. Hawkins. No. 1,130,594; Mar. 2; Gaz. vol. 212; p. 263.
- Paper-fastener. J. C. Hawkins. No. 1,130,595; Mar. 2; Gaz. vol. 212; p. 264.
- Paper-fastener. C. L. Kell. No. 1,125,115; Jan. 19; Gaz. vol. 210; p. 751.
- Paper-fastener. I. Rittenhouse. No. 1,149,086; Aug. 3; Gaz. vol. 217; p. 212.
- Paper-fastener. I. Rittenhouse. No. 1,156,179; Oct. 12; Gaz. vol. 219; p. 322.
- Paper-fastener. L. N. Udell. No. 1,164,685; Dec. 21; Gaz. vol. 221; p. 768.
- Paper-fastening. J. W. Niedomanski. No. 1,146,591; July 13; Gaz. vol. 216; p. 588.
- Paper-feed. M. W. Hazen and O. Petermann. No. 1,130,510; Mar. 2; Gaz. vol. 212; p. 235.
- Paper feed and cut-off means. R. J. Seator. No. 1,153,346; Sept. 14; Gaz. vol. 218; p. 385.
- Paper-feed-controlling apparatus. T. J. Beregh. No. 1,149,018; Aug. 3; Gaz. vol. 217; p. 189.
- Paper-feed-controlling system. A. F. Dixon. No. 1,161,850; Nov. 30; Gaz. vol. 220; p. 1388.
- Paper-feed mechanism. D. T. Fitts. No. 1,128,434; Feb. 16; Gaz. vol. 211; p. 709.
- Paper-feeder. L. Fischer. No. 1,148,373; July 27; Gaz. vol. 216; p. 1261.
- Paper-feeder. R. N. Rogers. No. 1,153,339; Sept. 14; Gaz. vol. 218; p. 382.
- Paper-feeder. P. V. Roller. No. 1,130,109; Mar. 2; Gaz. vol. 212; p. 93.
- Paper feeding and handling device. E. Cheshire. No. 1,145,405; July 6; Gaz. vol. 216; p. 150.
- Paper-feeding device. J. L. Thompson. No. 1,137,553; Apr. 27; Gaz. vol. 213; p. 1351.
- Paper-feeding machine. T. C. Dexter. No. 1,161,630; Nov. 23; Gaz. vol. 220; p. 1266.
- Paper-feeding machine. E. Jagenberg. No. 1,159,498; Nov. 9; Gaz. vol. 220; p. 412.
- Paper-feeding machine. F. B. Lockton. No. 1,165,521; Dec. 28; Gaz. vol. 221; p. 1098.
- Paper-feeding machine. A. J. Slade, Jr. No. 1,147,562; July 20; Gaz. vol. 216; p. 945.
- Paper-feeding machine. G. W. Swift, Jr. No. 1,126,128; Jan. 26; Gaz. vol. 210; p. 1148.
- Paper-feeding mechanism. O. W. Cowgill. No. 1,134,375; Apr. 6; Gaz. vol. 213; p. 106.
- Paper-feeding mechanism. H. C. Gammeter. No. 1,148,963; Aug. 3; Gaz. vol. 217; p. 170.
- Paper-feeding mechanisms, Registering device for. J. G. Hardie. No. 1,144,937; June 29; Gaz. vol. 215; p. 1471.
- Paper-feeding, Multiple-sheet detector for. V. Garner. No. 1,142,247; June 8; Gaz. vol. 215; p. 445.
- Paper-file. D. Kaaumoana. No. 1,162,612; Nov. 30; Gaz. vol. 220; p. 1650.
- Paper filling and binding device. F. J. Klein. No. 1,157,229; Oct. 19; Gaz. vol. 219; p. 721.

Alphabetical list of inventions—Continued.

- Paper-finishing machine. P. W. Bidwell. No. 1,155,203; Sept. 28; Gaz. vol. 218; p. 1092.
- Paper, Finishing the surface of coated calendered printing. J. S. Weyl. No. 1,125,232; Jan. 19; Gaz. vol. 210; p. 795.
- Paper fixture, Toilet-. F. H. Moore. No. 1,136,700; Apr. 20; Gaz. vol. 213; p. 1010.
- Paper-filting apparatus. S. J. Watts. No. 1,166,162; Dec. 28; Gaz. vol. 221; p. 1325.
- Paper folding and stitching machine. D. J. Scott. No. 1,163,374; Dec. 7; Gaz. vol. 221; p. 224.
- Paper-folding machine. C. A. Sigafos. No. 1,128,537; Feb. 16; Gaz. vol. 211; p. 745.
- Paper-folding machines, Automatic stop mechanism for. R. C. Smith. No. 1,159,426; Nov. 9; Gaz. vol. 220; p. 386.
- Paper for toilet or towel purposes, Dispensing means for. E. A. Hamilton and F. W. Calvert. No. 1,141,541; June 1; Gaz. vol. 215; p. 162.
- Paper forms, Machine for making. A. P. Tucker. No. 1,159,812; Nov. 9; Gaz. vol. 220; p. 525.
- Paper forms, Machine for making. A. P. Tucker. No. 1,160,962; Nov. 16; Gaz. vol. 220; p. 985.
- Paper fruit-container. O. E. Smith. No. 1,155,524; Oct. 5; Gaz. vol. 219; p. 71.
- Paper-hand-out device. H. A. Towne. No. 1,137,098; Apr. 27; Gaz. vol. 213; p. 1189.
- Paper-handling machines, Directing and advancing device for. L. A. Schmidt. No. 1,161,346; Nov. 23; Gaz. vol. 220; p. 1168.
- Paper-hangers, Folding board for. J. G. Breckenridge. No. 1,134,100; Apr. 6; Gaz. vol. 213; p. 7.
- Paper-hanger's table. J. B. Loranger. No. 1,147,255; July 20; Gaz. vol. 216; p. 838.
- Paper-hanging device. J. N. Campbell. No. 1,140,112; May 18; Gaz. vol. 214; p. 916.
- Paper-hanging tool, Combination. J. H. Kane. No. 1,156,783; Oct. 12; Gaz. vol. 219; p. 532.
- Paper-holder. B. S. Bayle. No. 1,157,286; Oct. 19; Gaz. vol. 219; p. 742.
- Paper-holder. J. E. Hudgel. No. 1,153,389; Sept. 14; Gaz. vol. 218; p. 401.
- Paper holder, Fruit-wrapping-. G. P. Rast. No. 1,126,081; Jan. 26; Gaz. vol. 210; p. 1132.
- Paper holder, Note-. R. D. Wirt. No. 1,165,031; Dec. 28; Gaz. vol. 221; p. 1276.
- Paper holder, Roll-. J. F. Palmer. No. 1,127,918; Feb. 9; Gaz. vol. 211; p. 480.
- Paper holder, Toilet-. A. Baruch. No. 1,137,830; May 4; Gaz. vol. 214; p. 37.
- Paper holder, Toilet-. S. J. Bens and A. B. Hubbard. No. 1,156,266; Oct. 12; Gaz. vol. 219; p. 351.
- Paper holder, Toilet-. M. Spall. No. 1,158,577; Nov. 2; Gaz. vol. 220; p. 59.
- Paper holder, Toilet-. H. D. Wood. No. 1,133,600; Mar. 30; Gaz. vol. 212; p. 1487.
- Paper holder, Towel-. R. N. Shelley. No. 1,152,851; Sept. 7; Gaz. vol. 218; p. 173.
- Paper impervious to air and moisture, Composition of matter for rendering. E. S. Coleman. No. 1,158,897; Nov. 2; Gaz. vol. 220; p. 171.
- Paper-jacketed can. B. K. Ford. No. 1,147,227; July 20; Gaz. vol. 216; p. 829.
- Paper-keg. B. C. Vaughn. No. 1,156,332; Oct. 12; Gaz. vol. 219; p. 373.
- Paper-lifter. E. M. Hauber. No. 1,134,848; Apr. 6; Gaz. vol. 213; p. 275.
- Paper-like product and making the same. L. H. Baekeland. No. 1,160,365; Nov. 16; Gaz. vol. 220; p. 772.
- Paper-machine. L. J. Deane and M. P. Wingate. No. 1,155,219; Sept. 28; Gaz. vol. 218; p. 1096.
- Paper-machine. C. E. Torrance. No. 1,161,806; Nov. 23; Gaz. vol. 220; p. 1327.
- Paper-machine doctor-vibrating device. H. F. Dunbar. No. 1,150,423; Aug. 17; Gaz. vol. 217; p. 855.
- Paper, Machine for cutting piles of. O. John. No. 1,143,765; June 22; Gaz. vol. 215; p. 1037.
- Paper, Machine for cutting piles of. O. John. No. 1,150,602; Aug. 17; Gaz. vol. 217; p. 918.
- Paper, Machine for cutting piles of. O. John. No. 1,159,389; Nov. 9; Gaz. vol. 220; p. 373.
- Paper, Machine for facilitating the trimming of wall-. C. Green, Jr. No. 1,128,775; Feb. 16; Gaz. vol. 211; p. 825.
- Paper, Machine for facilitating the trimming of wall-. C. Green, Jr. No. 1,143,187; June 15; Gaz. vol. 215; p. 814.
- Paper, Machine for facing corrugated. J. N. Hahn. No. 1,151,681; Aug. 31; Gaz. vol. 217; p. 1390.
- Paper machine, Rewinding wall-. R. B. Campbell. No. 1,141,441; June 1; Gaz. vol. 215; p. 127.
- Paper-machines, Adjustable deckle for wet-cylinder. A. R. Stamets. No. 1,161,747; Nov. 23; Gaz. vol. 220; p. 1306.
- Paper-machines, Automatic stuff-box for. W. P. Feeney. No. 1,134,331; Apr. 6; Gaz. vol. 213; p. 270.
- Paper-machines, Drier-rolls for. W. Sheahan. (Reissue.) No. 1,3925; June 8; Gaz. vol. 215; p. 635.
- Paper-machines, Endless conveying means for. J. Wolf. No. 1,131,766; Mar. 16; Gaz. vol. 212; p. 737.
- Paper machinery. H. P. Howe. No. 1,162,486; Nov. 30; Gaz. vol. 220; p. 1609.
- Paper-making. W. H. Millsbaugh. No. 1,163,251; Dec. 7; Gaz. vol. 221; p. 181.
- Paper-making. W. H. Millsbaugh. No. 1,163,252; Dec. 7; Gaz. vol. 221; p. 182.
- Paper-making apparatus. J. B. Wagg. No. 1,129,766; Feb. 23; Gaz. vol. 211; p. 1206.
- Paper-making machine. N. H. Carpenter. No. 1,153,892; Sept. 21; Gaz. vol. 218; p. 614.
- Paper-making machine. W. E. McIntyre. No. 1,149,379; Aug. 10; Gaz. vol. 217; p. 421.
- Paper-making machine. W. E. Metcalf. No. 1,152,747; Sept. 7; Gaz. vol. 218; p. 135.
- Paper-making machine. W. H. Millsbaugh. No. 1,163,253; Dec. 7; Gaz. vol. 221; p. 182.
- Paper-making machine. W. H. Millsbaugh. No. 1,163,254; Dec. 7; Gaz. vol. 221; p. 182.
- Paper-making machine. W. E. Sheehan. No. 1,150,636; Aug. 17; Gaz. vol. 217; p. 930.
- Paper-making machine, Corrugated-. J. T. Ferres. No. 1,135,509; Apr. 13; Gaz. vol. 213; p. 548.
- Paper-making-machine pulp-feeder. D. A. Dillman. No. 1,166,042; Dec. 28; Gaz. vol. 221; p. 1279.
- Paper-making-machine slice. W. C. Bauer. No. 1,150,328; Aug. 17; Gaz. vol. 217; p. 823.
- Paper-making machines, Automatic stuff-box for. W. P. Feeney. No. 1,143,523; June 15; Gaz. vol. 215; p. 929.
- Paper-making machines, Cylinder-vat for. A. A. Gehrein. No. 1,154,183; Sept. 21; Gaz. vol. 218; p. 712.
- Paper-making machines, Dipper for driers in. J. W. Veder. No. 1,145,530; July 6; Gaz. vol. 216; p. 194.
- Paper-making machines, Drier-rolls of. P. J. Lamoreux. No. 1,139,777; May 18; Gaz. vol. 214; p. 796.
- Paper-making machines, Flow-regulator for. L. S. McCurdy. No. 1,154,788; Sept. 28; Gaz. vol. 218; p. 949.
- Paper-making machines, Pulp-vat for. G. Schacht. No. 1,162,107; Nov. 30; Gaz. vol. 220; p. 1480.
- Paper-making machines, Shower-pipe for. A. E. Binns. No. 1,163,734; Dec. 14; Gaz. vol. 221; p. 395.
- Paper-making machines, Stock-gate controller for. T. French. No. 1,140,029; May 18; Gaz. vol. 214; p. 886.
- Paper-making machines, Suction-box for. B. D. Coppage. No. 1,161,030; Nov. 23; Gaz. vol. 220; p. 1054.
- Paper-making method and means. D. L. McCorkindale. No. 1,147,331; July 20; Gaz. vol. 216; p. 863.
- Paper-making, Rotary knitter with deeply-immersed screening-drum for. C. Seybold and H. Dehm. No. 1,153,579; Sept. 14; Gaz. vol. 218; p. 470.
- Paper manufacture, Apparatus for producing pulp for. A. W. Case. No. 1,162,135; Nov. 30; Gaz. vol. 220; p. 1490.
- Paper, Manufacture of marbled. B. Zarnowiecki. No. 1,152,467; Sept. 7; Gaz. vol. 218; p. 30.
- Paper manufacture, Preparing resin size for. B. Kniffler and W. A. Oppen. No. 1,160,906; Nov. 16; Gaz. vol. 220; p. 965.
- Paper, Manuscript writing-. W. H. Greeley. No. 1,151,782; Aug. 31; Gaz. vol. 217; p. 1425.
- Paper-marking device. H. Brown. No. 1,152,393; Sept. 7; Gaz. vol. 218; p. 4.
- Paper, metal, &c., Roller mechanism for producing corrugated. A. Beran. No. 1,150,805; Aug. 17; Gaz. vol. 217; p. 988.
- Paper, Method and machine for making. C. E. Pope. No. 1,140,711; May 25; Gaz. vol. 214; p. 1158.
- Paper milk-bottle or other container. J. R. Van Wormer. No. 1,160,677; Nov. 16; Gaz. vol. 220; p. 886.
- Paper or cardboard, Feeding mechanism for. C. H. Heywood and D. E. Travis. No. 1,131,836; Mar. 16; Gaz. vol. 212; p. 764.
- Paper or cardboard receptacle. J. W. McCleery. No. 1,158,699; Nov. 2; Gaz. vol. 220; p. 101.
- Paper or paper-board, Heat-insulating. F. J. Jewett. No. 1,164,941; Dec. 21; Gaz. vol. 221; p. 857.
- Paper or the like, Apparatus for cutting and stacking sheets of. A. Rommeney and G. Kathe. No. 1,152,551; Sept. 7; Gaz. vol. 218; p. 63.
- Paper-package. F. H. Hoberg. No. 1,159,382; Nov. 9; Gaz. vol. 220; p. 370.
- Paper-package. W. McCorkindale. No. 1,146,186; July 13; Gaz. vol. 216; p. 444.
- Paper-package. P. D. Parsons. No. 1,158,547; Nov. 2; Gaz. vol. 220; p. 49.
- Paper-package. C. C. Willis. No. 1,158,353; Oct. 26; Gaz. vol. 219; p. 1176.
- Paper-package closure. R. F. Arnott. No. 1,128,266; Feb. 9; Gaz. vol. 211; p. 601.
- Paper pad, Wrapping-. D. Kuhmarker. No. 1,153,503; Sept. 14; Gaz. vol. 218; p. 442.
- Paper pall. L. Norman. No. 1,160,527; Nov. 16; Gaz. vol. 220; p. 829.
- Paper-pail-making machine. F. J. Brunell. No. 1,153,193; Sept. 14; Gaz. vol. 218; p. 330.
- Paper pail or box. C. T. Bloomer. No. 1,154,086; Sept. 21; Gaz. vol. 218; p. 680.
- Paper pasting and trimming apparatus, Wall-. W. J. Dunn and H. B. Taylor. No. 1,131,685; Mar. 16; Gaz. vol. 212; p. 708.
- Paper-pasting machine, Wall-. S. H. Mobley. No. 1,162,247; Nov. 30; Gaz. vol. 220; p. 1528.
- Paper pasting, trimming, and cutting machine, Wall-. N. Headland. No. 1,154,015; Sept. 21; Gaz. vol. 218; p. 655.

- Paper perforating and filling device. F. J. Klein. No. 1,157,228; Oct. 19; Gaz. vol. 219; p. 721.
- Paper-perforating device. P. J. Simmen. No. 1,138,804; May 11; Gaz. vol. 214; p. 419.
- Paper-perforating machine. J. T. Schaaff. No. 1,134,018; Mar. 30; Gaz. vol. 212; p. 1630.
- Paper piling or laying machine. F. W. Vickery. No. 1,144,269; June 22; Gaz. vol. 215; p. 1215.
- Paper-plaiting device. H. A. House. No. 1,124,618; Jan. 12; Gaz. vol. 210; p. 541.
- Paper, Preparation and treatment of stencil. D. Gestetner. No. 1,125,835; Jan. 19; Gaz. vol. 210; p. 1009.
- Paper, Process of and apparatus for craping. F. H. Fuller. No. 1,143,377; June 15; Gaz. vol. 215; p. 881.
- Paper, Protecting commercial. L. M. Todd and C. G. Tiefel. No. 1,144,742; June 29; Gaz. vol. 215; p. 1405.
- Paper pulley. S. J. Bube. No. 1,132,509; Mar. 16; Gaz. vol. 212; p. 1009.
- Paper-pulp and the like, Bleaching. K. Mörch. No. 1,160,942; Nov. 16; Gaz. vol. 220; p. 977.
- Paper-pulp and the like, Sorter for. J. M. L. Spangenberg. No. 1,163,276; Dec. 7; Gaz. vol. 221; p. 189.
- Paper-pulp. Apparatus for disintegrating fibrous material used in the manufacture of. W. H. Stobie. (Reissue.) No. 13,919; May 18; Gaz. vol. 214; p. 998.
- Paper-pulp beater. R. F. Lachmann. No. 1,160,909; Nov. 16; Gaz. vol. 220; p. 966.
- Paper-pulp from flax-straw, flax-tow, and other ligneous material, Making. J. L. Merrill. No. 1,145,498; July 6; Gaz. vol. 216; p. 183.
- Paper-pulp-grinding mills, Shell-lining for. A. F. and O. B. Bahr. No. 1,133,215; Mar. 23; Gaz. vol. 212; p. 1314.
- Paper-pulp-grinding mills, Shell-lining for. A. F. and O. B. Bahr. No. 1,152,690; Sept. 7; Gaz. vol. 218; p. 114.
- Paper-pulp, Method of and apparatus for forming webs from. A. J. Haug. No. 1,163,998; Dec. 14; Gaz. vol. 221; p. 487.
- Paper-pulp or cellulose from bamboo and the like, Production of. J. L. Jardine. No. 1,143,401; June 15; Gaz. vol. 215; p. 889.
- Paper-pulp or paper, Production of half-stuff. W. A. R. M. McRae. No. 1,151,490; Aug. 24; Gaz. vol. 217; p. 1278.
- Paper-pulp-preparing apparatus. E. D. Jefferson. No. 1,129,984; Mar. 2; Gaz. vol. 212; p. 51.
- Paper-pulp screen. C. E. Pope. No. 1,160,649; Nov. 16; Gaz. vol. 220; p. 875.
- Paper-pulp screen. H. F. Storrer. No. 1,164,427; Dec. 14; Gaz. vol. 221; p. 637.
- Paper-pulp-treating machine. J. F. King and J. Neary. No. 1,159,589; Nov. 9; Gaz. vol. 220; p. 444.
- Paper-pulping and like machine. L. Thiry. No. 1,159,433; Nov. 9; Gaz. vol. 220; p. 489.
- Paper receptacle. W. A. Culbertson. No. 1,147,611; July 20; Gaz. vol. 216; p. 963.
- Paper receptacle. H. A. House. No. 1,128,785; Feb. 16; Gaz. vol. 211; p. 829.
- Paper receptacle. H. M. Silveira. No. 1,129,364; Feb. 23; Gaz. vol. 211; p. 1069.
- Paper receptacle. G. W. Swift, Jr. No. 1,158,581; Nov. 2; Gaz. vol. 220; p. 60.
- Paper-receptacle closure. M. P. Janisch. No. 1,147,867; July 27; Gaz. vol. 216; p. 1078.
- Paper receptacle or carton. S. C. Spence. No. 1,146,904; July 20; Gaz. vol. 216; p. 714.
- Paper-removing apparatus, Wall-. J. M. Jackson. No. 1,164,940; Dec. 21; Gaz. vol. 221; p. 857.
- Paper rewinding and measuring machine. C. H. Crowell. No. 1,145,469; July 6; Gaz. vol. 216; p. 174.
- Paper-roll cradle. H. S. McCormack. No. 1,144,769; June 29; Gaz. vol. 215; p. 1414.
- Paper-roll holder. H. Liebeck. No. 1,151,887; Aug. 31; Gaz. vol. 217; p. 1463.
- Paper-roll holder and cutter, Free-end-. B. H. Horn. No. 1,161,862; Nov. 30; Gaz. vol. 220; p. 1393.
- Paper-roll-making apparatus. E. Love. No. 1,143,214; June 15; Gaz. vol. 215; p. 824.
- Paper-roll protector. W. A. Schwartz. No. 1,126,577; Jan. 26; Gaz. vol. 210; p. 1312.
- Paper roll, Wall-. H. C. Jarvis. No. 1,154,022; Sept. 21; Gaz. vol. 218; p. 658.
- Paper-sieve cylinder. C. Kurtz-Hähle. No. 1,131,066; Mar. 9; Gaz. vol. 212; p. 460.
- Paper-slitter. G. L. Cowan. No. 1,162,040; Nov. 30; Gaz. vol. 220; p. 1455.
- Paper slitting, perforating, and rewinding machine. J. C. Fogarty. No. 1,154,301; Sept. 21; Gaz. vol. 218; p. 753.
- Paper-splitting machine. G. R. Cornwall. No. 1,165,074; Dec. 21; Gaz. vol. 221; p. 903.
- Paper-stock and paper from cotton-stalks, &c., Manufacturing. W. H. Croll. No. 1,165,323; Dec. 21; Gaz. vol. 221; p. 989.
- Paper-stock-beating machine. H. A. Frambach. No. 1,140,737; May 25; Gaz. vol. 214; p. 1166.
- Paper-stock feeding and weighing machine. S. J. Davis. No. 1,141,233; June 1; Gaz. vol. 215; p. 50.
- Paper-stock-screening machine. A. R. Paull. No. 1,149,534; Aug. 10; Gaz. vol. 217; p. 475.
- Paper-stock-shredding machine. G. D. Ryther. No. 1,156,373; Oct. 12; Gaz. vol. 219; p. 390.
- Paper-stock soak-tank. F. L. Barstow. No. 1,150,163; Aug. 17; Gaz. vol. 217; p. 765.
- Paper straw. B. Fletcher. No. 1,133,717; Mar. 30; Gaz. vol. 212; p. 1531.
- Paper-strip-feeding mechanism. H. N. Grissinger. No. 1,149,752; Aug. 10; Gaz. vol. 217; p. 556.
- Paper-stripping device, Wall-. L. F. Griswold. No. 1,142,811; June 15; Gaz. vol. 215; p. 680.
- Paper-surface-finishing machine. H. P. Howe. No. 1,130,515; Mar. 2; Gaz. vol. 212; p. 237.
- Paper-thickness regulator. O. M. Donaldson. No. 1,135,000; Apr. 13; Gaz. vol. 213; p. 372.
- Paper to remove the ink and recover the pulp, Treating printed. H. M. Bell and E. R. Lape. No. 1,130,466; Mar. 2; Gaz. vol. 212; p. 219.
- Paper to the tops of boxes and other articles, Machine for applying. F. G. Henry. No. 1,150,005; Oct. 5; Gaz. vol. 219; p. 235.
- Paper, Toilet-. C. S. Humphrey. No. 1,125,847; Jan. 19; Gaz. vol. 210; p. 1013.
- Paper towel. A. H. Scott. No. 1,141,495; June 1; Gaz. vol. 213; p. 146.
- Paper-towel-dispensing means. M. M. Cohn. No. 1,126,400; Jan. 26; Gaz. vol. 210; p. 1245.
- Paper-towel drawing and cutting machine. G. A. Aicher and S. Lazar. No. 1,153,183; Sept. 14; Gaz. vol. 218; p. 327.
- Paper-towel folding and dispensing machine. M. M. Cohn. No. 1,128,227; Feb. 9; Gaz. vol. 211; p. 588.
- Paper towel for toilet purposes. P. D. Parsons. No. 1,158,548; Nov. 2; Gaz. vol. 220; p. 50.
- Paper towel for toilet purposes. P. D. Parsons. No. 1,158,549; Nov. 2; Gaz. vol. 220; p. 50.
- Paper towel for toilet purposes. P. D. Parsons. No. 1,158,550; Nov. 2; Gaz. vol. 220; p. 50.
- Paper towels, Means for folding and dispensing. M. M. Cohn. No. 1,129,275; Feb. 23; Gaz. vol. 211; p. 1038.
- Paper towels or the like and making the same, Roll of. C. B. Buerger. No. 1,141,229; June 1; Gaz. vol. 215; p. 49.
- Paper, Treating. S. R. Wagg. No. 1,128,200; Feb. 9; Gaz. vol. 211; p. 579.
- Paper-treating apparatus, Sensitized-. C. F. Pease and C. A. Green. No. 1,125,878; Jan. 19; Gaz. vol. 210; p. 1023.
- Paper-treating machinery, Stick-feeding mechanism for. F. W. Moulton. No. 1,123,571; Jan. 5; Gaz. vol. 210; p. 127.
- Paper, Treating writing-. E. H. Clifton. No. 1,140,253; May 18; Gaz. vol. 214; p. 964.
- Paper trimming and pasting apparatus, Wall-. M. M. Hustad. No. 1,149,771; Aug. 10; Gaz. vol. 217; p. 563.
- Paper tube and making same. C. S. Bird. No. 1,158,024; Oct. 26; Gaz. vol. 219; p. 1062.
- Paper tube for toilet use. W. Conry. No. 1,126,710; Feb. 2; Gaz. vol. 211; p. 15.
- Paper-tube machine. G. B. Warner. No. 1,145,872; July 6; Gaz. vol. 216; p. 315.
- Paper tubes, Making and waterproofing. C. F. Lindsay and F. H. Maloney. No. 1,130,304; Mar. 2; Gaz. vol. 212; p. 161.
- Paper tubes, Treating. R. G. Clyne. No. 1,135,356; Apr. 13; Gaz. vol. 213; p. 494.
- Paper tubes, Waterproofing. C. F. Lindsay and W. R. Hibbard. No. 1,130,303; Mar. 2; Gaz. vol. 212; p. 160.
- Paper tucking and wrapping mechanism. C. S. Batdorf. No. 1,130,244; Mar. 2; Gaz. vol. 212; p. 139.
- Paper twine. Dymock. No. 1,165,953; Dec. 28; Gaz. vol. 221; p. 1249.
- Paper-vessel-making machine. H. D. Caylor and W. A. Scott. No. 1,164,922; Dec. 21; Gaz. vol. 221; p. 850.
- Paper vessels, Holder for folding. B. I. Rike. No. 1,139,579; May 18; Gaz. vol. 214; p. 727.
- Paper vessels, Holder for folding. B. I. Rike and J. R. Klin. No. 1,139,580; May 18; Gaz. vol. 214; p. 727.
- Paper vessels, Machine for making. L. Norman. No. 1,158,544; Nov. 2; Gaz. vol. 220; p. 48.
- Paper-watermarking means. C. D. Jacobs. No. 1,139,871; May 18; Gaz. vol. 214; p. 830.
- Paper-weight. V. Olsen. No. 1,131,261; Mar. 9; Gaz. vol. 212; p. 526.
- Paper-weight and bill-file, Combined. B. Litscher. No. 1,154,260; Sept. 21; Gaz. vol. 218; p. 739.
- Paper while in a damp condition, Mechanism for watermarking. W. C. Nash. No. 1,165,438; Dec. 28; Gaz. vol. 221; p. 1069.
- Paper-winding machine. L. W. Southgate. No. 1,142,988; June 15; Gaz. vol. 215; p. 743.
- Papers and the like, Apparatus for conveying and distributing. W. M. Hasberg and A. W. Swanlund. No. 1,157,865; Oct. 26; Gaz. vol. 219; p. 1006.
- Papers, Gathering-cover for holding. C. G. Hedbohm and S. W. S. Lindby. No. 1,129,673; Feb. 23; Gaz. vol. 211; p. 1176.
- Papers, Protecting commercial. L. M. Todd and C. G. Tiefel. No. 1,145,447; July 6; Gaz. vol. 216; p. 165.
- Parachute. E. R. Calthrop. No. 1,165,846; Dec. 28; Gaz. vol. 221; p. 1211.
- Parachute. J. Vig. No. 1,131,300; Mar. 9; Gaz. vol. 212; p. 541.

Alphabetical list of inventions—Continued.

- Parachute. A. Wertepny. No. 1,124,565; Jan. 12; Gaz. vol. 210; p. 521.
- Parachute device. A. Oister. No. 1,138,140; May 4; Gaz. vol. 214; p. 148.
- Parachute for aeroplanes, Releasable. F. Kush. No. 1,124,623; Jan. 12; Gaz. vol. 210; p. 543.
- Parachute, Packed. G. L. Martin. No. 1,165,891; Dec. 28; Gaz. vol. 221; p. 1227.
- Paraffin and like substances and of mixtures of such substances with oil, Fractional separation of. K. Opl. No. 1,128,494; Feb. 16; Gaz. vol. 211; p. 730.
- Paraffining-machine. A. L. and F. N. Weils. No. 1,151,636; Aug. 31; Gaz. vol. 217; p. 1376.
- Paraffining-machines, Drying and cooling attachment for. G. W. Beadle. No. 1,134,809; Apr. 6; Gaz. vol. 213; p. 264.
- Parallelgauge, Adjustable. B. S. Thompson. No. 1,161,753; Nov. 23; Gaz. vol. 220; p. 1308.
- Parasol-handle, Combination. D. Reich. No. 1,129,730; Feb. 23; Gaz. vol. 211; p. 1194.
- Parcel-carrier. J. L. Baldwin. No. 1,165,565; Dec. 28; Gaz. vol. 221; p. 1112.
- Parcel-carrier, Portable. S. G. Harwood. No. 1,149,647; Aug. 10; Gaz. vol. 217; p. 520.
- Parcel-locker. W. S. Farnsworth. No. 1,133,627; Mar. 30; Gaz. vol. 212; p. 1497.
- Parcel-post-rate indicator. B. E. Bolling. No. 1,153,539; Sept. 14; Gaz. vol. 218; p. 456.
- Parl mutuel machine. J. Hachmeister. No. 1,159,493; Nov. 9; Gaz. vol. 220; p. 410.
- Paring-knife. O. H. Butler. No. 1,133,228; Mar. 23; Gaz. vol. 212; p. 1317.
- Paring machine, Vegetable. H. Robinson. No. 1,161,413; Nov. 23; Gaz. vol. 220; p. 1192.
- Park-bench. G. A. Parker. No. 1,154,268; Sept. 21; Gaz. vol. 218; p. 742.
- Partition construction. W. D. Henderson. No. 1,133,138; Mar. 23; Gaz. vol. 212; p. 1286.
- Partition construction, Clip for securing plaster-boards to metal studding in. M. H. Jester. No. 1,125,335; Jan. 19; Gaz. vol. 210; p. 831.
- Partition, Foldable. C. W. Ellwood. No. 1,141,110; June 1; Gaz. vol. 215; p. 7.
- Partition, Sectional. J. P. Fangel. No. 1,154,622; Sept. 28; Gaz. vol. 218; p. 892.
- Partition, Sectional. A. D. Gerber. No. 1,139,667; May 18; Gaz. vol. 214; p. 759.
- Party-line cut-out. W. B. Francis. No. 1,133,549; Mar. 30; Gaz. vol. 212; p. 1469.
- Passenger-exit register. C. C. Frum. No. 1,143,598; June 15; Gaz. vol. 215; p. 957.
- Paste-applying device. C. D. Watkins. No. 1,129,256; Feb. 23; Gaz. vol. 211; p. 1032.
- Paste-applying device. W. Wolfe. No. 1,124,374; Jan. 12; Gaz. vol. 210; p. 452.
- Paste-container. C. H. Wardwell and R. D. Morrison. No. 1,142,180; June 8; Gaz. vol. 215; p. 405.
- Pasting apparatus. W. B. Dunlap. No. 1,165,001; Dec. 21; Gaz. vol. 221; p. 878.
- Pasting-machine. F. Engel. No. 1,147,009; July 20; Gaz. vol. 216; p. 753.
- Pasting-machine. H. J. McMackin. No. 1,144,717; June 29; Gaz. vol. 215; p. 1396.
- Pasting-machine. P. Pierson. No. 1,128,501; Feb. 16; Gaz. vol. 211; p. 732.
- Pasting pieces of goods on sample-cards, Machine for. F. Gaul. No. 1,126,003; Jan. 26; Gaz. vol. 210; p. 1101.
- Pasteurizer. J. Kerber. No. 1,127,634; Feb. 9; Gaz. vol. 211; p. 378.
- Pasteurizer and cooler. C. O. Robinson. No. 1,162,808; Dec. 7; Gaz. vol. 221; p. 27.
- Pasteurizing substances, Apparatus for. B. D. White. No. 1,144,883; June 29; Gaz. vol. 215; p. 1454.
- Pastry-making machine. W. J. Rumble. No. 1,151,548; Aug. 24; Gaz. vol. 217; p. 1299.
- Pastry shells, Machine for making. L. C. Sharp. No. 1,151,298; Aug. 24; Gaz. vol. 217; p. 1214.
- Pastry utensil. H. R. Van Bochove. No. 1,126,134; Jan. 26; Gaz. vol. 210; p. 1150.
- Pattern: See—
Hat-pattern.
- Pattern. A. F. Browning, (now by marriage A. F. B. Rothe). No. 1,158,976; Nov. 2; Gaz. vol. 220; p. 196.
- Pattern-card-repeating machine. H. Wyman. No. 1,161,368; Nov. 23; Gaz. vol. 220; p. 1176.
- Pattern-drafting device, Combined. J. B. Toth. No. 1,157,345; Oct. 19; Gaz. vol. 219; p. 762.
- Pattern-exhibitor. T. Regensteiner. No. 1,129,811; Feb. 23; Gaz. vol. 211; p. 1222.
- Pattern-generating machine. F. H. Perry. No. 1,134,287; Apr. 6; Gaz. vol. 213; p. 75.
- Pattern-generating machine. F. H. Perry. No. 1,152,967; Sept. 7; Gaz. vol. 218; p. 216.
- Pattern-perforating. F. M. Laserson. No. 1,140,170; May 18; Gaz. vol. 214; p. 936.
- Pattern-setting machine. H. L. Peters. No. 1,130,841; Mar. 9; Gaz. vol. 212; p. 382.
- Pavement-joints, Apparatus for installing. R. D. Baker. No. 1,127,378; Feb. 2; Gaz. vol. 211; p. 248.
- Paving-block. E. A. Tracy. No. 1,135,865; Apr. 13; Gaz. vol. 213; p. 674.
- Paving-block. H. E. Warden. No. 1,156,117; Oct. 12; Gaz. vol. 219; p. 302.
- Paving-blocks, Machine for manufacturing ribbed. J. B. Nicholson. No. 1,148,529; Aug. 3; Gaz. vol. 217; p. 16.
- Paving-blocks, Machine for manufacturing ribbed and bilside. J. B. Nicholson. No. 1,161,956; Nov. 30; Gaz. vol. 220; p. 1427.
- Paving composition and making it. G. C. Warren. No. 1,164,041; Dec. 14; Gaz. vol. 221; p. 503.
- Paving-form. C. D. McArthur. No. 1,142,043; June 8; Gaz. vol. 215; p. 373.
- Paving roads and the like, Apparatus for use when. W. B. Cowell. No. 1,157,297; Oct. 19; Gaz. vol. 219; p. 745.
- Paving-strip. J. Banwell. No. 1,134,939; Apr. 6; Gaz. vol. 213; p. 305.
- Pawl-actuator. J. T. Corley. No. 1,134,516; Apr. 6; Gaz. vol. 213; p. 158.
- Pawl-and-ratchet driving mechanism. W. Evensen. No. 1,163,815; Dec. 14; Gaz. vol. 221; p. 425.
- Pawl-and-ratchet mechanism. W. Hood. No. 1,125,325; Jan. 19; Gaz. vol. 210; p. 828.
- Pawl-and-ratchet mechanism. W. C. Reed. No. 1,165,902; Dec. 28; Gaz. vol. 221; p. 1231.
- Pawl-and-ratchet mechanism. J. H. Whilt. No. 1,165,218; Dec. 21; Gaz. vol. 221; p. 956.
- Pawl-frames, &c., Manufacture of. C. H. Veeder. No. 1,149,605; Aug. 10; Gaz. vol. 217; p. 501.
- Pawl, Frictional. A. A. Oliver. No. 1,142,452; June 8; Gaz. vol. 215; p. 518.
- Pay-station instrument. D. O. Lawrence. No. 1,142,333; June 8; Gaz. vol. 215; p. 474.
- Pea-grader. J. W. Tuttle. No. 1,147,283; July 20; Gaz. vol. 216; p. 846.
- Pea-separator. F. Hamachek. No. 1,153,304; Sept. 14; Gaz. vol. 218; p. 369.
- Pea-separator. F. O. Keene. No. 1,143,202; June 15; Gaz. vol. 215; p. 819.
- Peach-pitter. W. Eckles. No. 1,159,575; Nov. 9; Gaz. vol. 220; p. 439.
- Peanut and potato digger. T. D. Mayhall. No. 1,131,850; Mar. 16; Gaz. vol. 212; p. 769.
- Peanut-blancher. F. F. Hedges. No. 1,147,397; July 20; Gaz. vol. 216; p. 889.
- Peanut-digger. F. T. Clark. No. 1,162,137; Nov. 30; Gaz. vol. 220; p. 1490.
- Peanut-huller. L. T. and R. C. Lillley. No. 1,151,486; Aug. 24; Gaz. vol. 217; p. 1276.
- Peanut-picker. E. L. Canon. No. 1,153,598; Sept. 14; Gaz. vol. 218; p. 477.
- Peat and the like, Briquetting of carbonized. M. Ekenberg. No. 1,143,951; June 22; Gaz. vol. 215; p. 1101.
- Peat and the like, Drying raw. H. Brune and H. Horst. No. 1,143,497; June 15; Gaz. vol. 215; p. 921.
- Peat, Apparatus for obtaining. E. Bartholomew. No. 1,156,387; Oct. 12; Gaz. vol. 219; p. 395.
- Peat, Apparatus for removing roots and the like from. J. S. Whitaker. No. 1,153,661; Sept. 14; Gaz. vol. 218; p. 497.
- Peat, Apparatus for the heat treatment of. N. Testrup and T. Rigby. No. 1,160,464; Nov. 16; Gaz. vol. 220; p. 806.
- Peat briquets, Production of wet-carbonized. N. Testrup and T. Rigby. No. 1,139,315; May 11; Gaz. vol. 214; p. 596.
- Peat, Getting or excavating. T. Rigby. No. 1,144,249; June 22; Gaz. vol. 215; p. 1208.
- Peat, Removing water from. T. Rigby. No. 1,151,825; Aug. 31; Gaz. vol. 217; p. 1441.
- Peat, Treatment of. N. Testrup and T. Rigby. No. 1,160,463; Nov. 16; Gaz. vol. 220; p. 806.
- Peat, Utilization of. T. Rigby. No. 1,143,319; June 15; Gaz. vol. 215; p. 860.
- Peat, Utilization of. T. Rigby and N. Testrup. No. 1,144,250; June 22; Gaz. vol. 215; p. 1208.
- Peat, Utilization of. N. Testrup, T. Rigby, and O. Söderlund. No. 1,164,429; Dec. 14; Gaz. vol. 221; p. 638.
- Peat, Utilizing the liquid associated with. N. Testrup, M. A. Adam, T. Rigby, and G. W. Andrew. No. 1,145,095; July 6; Gaz. vol. 216; p. 44.
- Pedal. O. Hegel. No. 1,138,563; May 4; Gaz. vol. 214; p. 293.
- Pedal. A. Winton and H. B. Anderson. No. 1,153,743; Sept. 14; Gaz. vol. 218; p. 526.
- Pedal. W. J. Yahle. No. 1,144,518; June 29; Gaz. vol. 215; p. 1328.
- Pedal attachment. S. W. Widney. No. 1,132,057; Mar. 16; Gaz. vol. 212; p. 843.
- Pedal attachment, Extension. F. Harrington. No. 1,128,975; Feb. 16; Gaz. vol. 211; p. 899.
- Pedal connection. H. E. French. No. 1,132,081; Mar. 16; Gaz. vol. 212; p. 851.
- Pedal-door or the like. P. B. Klugh. No. 1,164,100; Dec. 14; Gaz. vol. 221; p. 523.
- Pedal foot-piece. T. I. Duffy. No. 1,151,766; Aug. 31; Gaz. vol. 217; p. 1419.
- Pedal-locking mechanism. E. S. Foljambe. No. 1,156,990; Oct. 19; Gaz. vol. 219; p. 636.
- Pedal mechanism. J. T. Austin. No. 1,124,685; Jan. 12; Gaz. vol. 210; p. 565.
- Pedal-pad, Adjustable. H. W. Gaston. No. 1,159,923; Nov. 9; Gaz. vol. 220; p. 566.

Alphabetical list of inventions—Continued.

- Pedal-switch. W. S. Willis. No. 1,158,355; Oct. 26; Gaz. vol. 219; p. 1177.
- Pedestal. W. Hegenscheidt. No. 1,151,011; Aug. 24; Gaz. vol. 217; p. 1116.
- Pedestal construction. J. A. Lamont. No. 1,157,877; Oct. 26; Gaz. vol. 219; p. 1010.
- Pedestal-table. J. F. O'Connor. No. 1,131,730; Mar. 16; Gaz. vol. 212; p. 723.
- Peel. J. G. Ludwig. No. 1,135,906; Apr. 13; Gaz. vol. 213; p. 688.
- Peeler and method of peeling bananas, Banana-. W. L. Rathbun. No. 1,143,135; June 15; Gaz. vol. 215; p. 794.
- Peeler, Pineapple-. C. W. Cookson. No. 1,137,841; May 4; Gaz. vol. 214; p. 42.
- Peeler, Potato-. K. Yakushiji. No. 1,154,472; Sept. 21; Gaz. vol. 218; p. 812.
- Peeler, Vegetable-. S. Ro Satow. No. 1,150,629; Aug. 17; Gaz. vol. 217; p. 928.
- Pegs for the creels used in textile trades, &c., Machine for pointing. J. Dronsfield. No. 1,165,764; Dec. 28; Gaz. vol. 221; p. 1185.
- Pen. H. Sawamura. No. 1,164,552; Dec. 14; Gaz. vol. 221; p. 681.
- Pen and pencil clip. C. W. Boman. No. 1,153,754; Sept. 14; Gaz. vol. 218; p. 529.
- Pen and pencil holder. B. P. Gibbs. No. 1,135,174; Apr. 13; Gaz. vol. 213; p. 433.
- Pen and pencil holder. E. Seabaugh. No. 1,125,405; Jan. 19; Gaz. vol. 210; p. 858.
- Pen and pencil holder. S. Simonian. No. 1,140,194; May 18; Gaz. vol. 214; p. 944.
- Pen and pencil retainer. B. S. Alsop. No. 1,164,607; Dec. 21; Gaz. vol. 221; p. 772.
- Pen, Artist's stippling. F. C. Adams. No. 1,132,896; Mar. 23; Gaz. vol. 212; p. 1198.
- Pen attachment. J. C. Hughes. No. 1,143,629; June 22; Gaz. vol. 215; p. 991.
- Pen, Breeding-. J. R. Bryson. No. 1,130,062; Mar. 2; Gaz. vol. 212; p. 77.
- Pen, Calif. H. L. and H. J. Ferris. No. 1,128,769; Feb. 16; Gaz. vol. 211; p. 823.
- Pen cleaner and holder. J. J. Hoey. No. 1,124,436; Jan. 12; Gaz. vol. 210; p. 475.
- Pen-clip. G. W. Heath. No. 1,145,584; July 6; Gaz. vol. 216; p. 212.
- Pen, Cutting-. A. Junior. No. 1,147,097; July 20; Gaz. vol. 216; p. 782.
- Pen, Drawing-. G. Schoenner. No. 1,143,730; June 22; Gaz. vol. 215; p. 1025.
- Pen-extractor. E. J. Gunselb. No. 1,164,506; Dec. 14; Gaz. vol. 221; p. 665.
- Pen filler, Fountain-. H. N. Carpenter. No. 1,152,601; Sept. 7; Gaz. vol. 218; p. 81.
- Pen filler, Fountain-. H. N. Carpenter. No. 1,152,602; Sept. 7; Gaz. vol. 218; p. 82.
- Pen-filling and ink-packaging device, Fountain-. H. N. Carpenter. No. 1,125,470; Jan. 19; Gaz. vol. 210; p. 879.
- Pen, Fountain-. J. Abegg. No. 1,134,936; Apr. 6; Gaz. vol. 213; p. 304.
- Pen, Fountain-. F. M. Ashley. No. 1,145,657; July 6; Gaz. vol. 216; p. 239.
- Pen, Fountain-. C. F. Billau. No. 1,162,557; Nov. 30; Gaz. vol. 220; p. 1634.
- Pen, Fountain-. H. R. Colt. No. 1,124,592; Jan. 12; Gaz. vol. 210; p. 531.
- Pen, Fountain-. W. L. Durand. No. 1,145,472; July 6; Gaz. vol. 216; p. 175.
- Pen, Fountain-. J. Gilbert. No. 1,161,123; Nov. 23; Gaz. vol. 220; p. 1087.
- Pen, Fountain-. J. W. Hobson, Jr. No. 1,159,027; Nov. 2; Gaz. vol. 220; p. 213.
- Pen, Fountain-. J. A. Holland. No. 1,152,509; Sept. 7; Gaz. vol. 218; p. 46.
- Pen, Fountain-. G. M. Kraker. No. 1,164,654; Dec. 21; Gaz. vol. 221; p. 756.
- Pen, Fountain-. J. Marlborough. No. 1,130,622; Mar. 2; Gaz. vol. 212; p. 273.
- Pen, Fountain-. H. W. Pierce. No. 1,155,611; Oct. 5; Gaz. vol. 219; p. 99.
- Pen, Fountain-. L. Ranney. No. 1,124,659; Jan. 12; Gaz. vol. 210; p. 557.
- Pen, Fountain-. W. F. Ullrich. No. 1,130,944; Mar. 9; Gaz. vol. 212; p. 418.
- Pen, Fountain-. D. C. Van Valer. No. 1,151,980; Aug. 31; Gaz. vol. 217; p. 1494.
- Pen, Fountain-. R. L. Warnock. No. 1,155,693; Oct. 5; Gaz. vol. 219; p. 128.
- Pen, Fountain-. R. W. Whitney and C. N. Richards. No. 1,133,349; Mar. 30; Gaz. vol. 212; p. 1397.
- Pen, Fountain-. S. Zollinger. No. 1,164,157; Dec. 14; Gaz. vol. 221; p. 542.
- Pen, Fountain or reservoir. H. C. Johnson and E. M. Wade. No. 1,124,454; Jan. 12; Gaz. vol. 210; p. 481.
- Pen, Gold. W. L. Ferris. No. 1,154,498; Sept. 21; Gaz. vol. 218; p. 820.
- Pen holder, Fountain-. E. F. Vilkomerson. No. 1,133,897; Mar. 30; Gaz. vol. 212; p. 1594.
- Pen holder, Fountain-. E. F. Vilkomerson. No. 1,166,282; Dec. 28; Gaz. vol. 221; p. 1369.
- Pen-holding device. B. F. Stogsdill. No. 1,141,851; June 1; Gaz. vol. 215; p. 266.
- Pen, Lettering-. E. S. Keene. No. 1,158,230; Oct. 26; Gaz. vol. 219; p. 1133.
- Pen, Lettering-. W. E. Worth. No. 1,136,196; Apr. 20; Gaz. vol. 213; p. 830.
- Pen, Lever-filler fountain-. J. A. Kraker. No. 1,124,750; Jan. 12; Gaz. vol. 210; p. 587.
- Pen-nib attachment. F. Kayser. No. 1,147,511; July 20; Gaz. vol. 216; p. 928.
- Pen or pencil clip or holder. H. R. and H. L. Tooker. No. 1,147,199; July 20; Gaz. vol. 216; p. 819.
- Pen or pencil holder. H. R. and H. L. Tooker. No. 1,147,198; July 20; Gaz. vol. 216; p. 818.
- Pen or pencil holder or clip. H. R. and H. L. Tooker. No. 1,147,200; July 20; Gaz. vol. 216; p. 819.
- Pen-point remover. J. H. Bremer. No. 1,153,756; Sept. 14; Gaz. vol. 218; p. 530.
- Pen-rack. J. H. Kulow. No. 1,163,672; Dec. 14; Gaz. vol. 221; p. 372.
- Pen, Ruling fountain-. G. C. Eggers. No. 1,149,348; Aug. 10; Gaz. vol. 217; p. 411.
- Pen, Self-filler fountain-. J. L. Schnell. No. 1,144,436; June 29; Gaz. vol. 215; p. 1301.
- Pen, Stippling-. J. H. Vaughan. No. 1,153,468; Sept. 14; Gaz. vol. 218; p. 429.
- Pens and pencils, Safety-clip for. G. W. and A. C. Heath. No. 1,145,583; July 6; Gaz. vol. 216; p. 211.
- Pens, Ink-feeder for. F. B. Hine. No. 1,149,050; Aug. 3; Gaz. vol. 217; p. 200.
- Pens, pencils, and similar articles, Clip for. D. Zakim. No. 1,162,843; Dec. 7; Gaz. vol. 221; p. 39.
- Pens, pencils, and the like, Clip for fountain-. C. H. Mabie. No. 1,125,144; Jan. 19; Gaz. vol. 210; p. 762.
- Pens, pencils, &c., Clip for. G. H. Clark. No. 1,155,641; Oct. 5; Gaz. vol. 219; p. 110.
- Pens, Spring and presser-bar for fountain-. E. F. Britten, Jr. No. 1,156,748; Oct. 12; Gaz. vol. 219; p. 521.
- Penholder. A. Borsella. No. 1,160,832; Nov. 16; Gaz. vol. 220; p. 940.
- Penholder. J. T. McKittrick. No. 1,157,994; Oct. 26; Gaz. vol. 219; p. 1050.
- Penholder. M. J. Mitchell. No. 1,154,332; Sept. 21; Gaz. vol. 218; p. 764.
- Penholder. D. F. Richardson. No. 1,135,396; Apr. 13; Gaz. vol. 213; p. 508.
- Penholder. R. W. Stuckey. No. 1,136,289; Apr. 20; Gaz. vol. 213; p. 864.
- Penholder and blotter, Combined. T. J. Cauthorn. No. 1,158,442; Nov. 2; Gaz. vol. 220; p. 11.
- Penholder-support. H. W. Craig. No. 1,139,348; May 11; Gaz. vol. 214; p. 608.
- Pencil. W. J. Coleman. No. 1,149,731; Aug. 10; Gaz. vol. 217; p. 548.
- Pencil. E. W. McCarroll. No. 1,163,674; Dec. 14; Gaz. vol. 221; p. 372.
- Pencil. A. M. Morrison. No. 1,131,786; Mar. 16; Gaz. vol. 212; p. 745.
- Pencil. R. H. Schleicher. No. 1,144,069; June 22; Gaz. vol. 215; p. 1143.
- Pencil. L. H. Sondheim. No. 1,158,736; Nov. 2; Gaz. vol. 220; p. 113.
- Pencil. H. C. Welton. No. 1,144,082; June 22; Gaz. vol. 215; p. 1147.
- Pencil and sharpener. J. C. Dordea. No. 1,165,856; Dec. 28; Gaz. vol. 221; p. 1215.
- Pencil attachment. J. Forster. No. 1,153,211; Sept. 14; Gaz. vol. 218; p. 336.
- Pencil attachment. P. A. Peterson. No. 1,124,651; Jan. 12; Gaz. vol. 210; p. 553.
- Pencil, Electrically-lighted. W. Q. Browne. No. 1,155,208; Sept. 28; Gaz. vol. 218; p. 1093.
- Pencil-holder. C. A. Anderson and S. Trepp. No. 1,130,696; Mar. 9; Gaz. vol. 212; p. 333.
- Pencil-holder. L. Martin and J. L. Jones. No. 1,134,691; Apr. 6; Gaz. vol. 213; p. 222.
- Pencil-holder. W. McDougall. No. 1,158,251; Oct. 26; Gaz. vol. 219; p. 1140.
- Pencil-holder. W. V. O'Connor. No. 1,153,105; Sept. 7; Gaz. vol. 218; p. 262.
- Pencil-holder. D. A. Prows. No. 1,157,580; Oct. 19; Gaz. vol. 219; p. 842.
- Pencil-holder. A. Sanders. No. 1,162,948; Dec. 7; Gaz. vol. 221; p. 74.
- Pencil-holder. M. F. Sexton. No. 1,163,866; Dec. 14; Gaz. vol. 221; p. 442.
- Pencil-holder and point-protector. W. S. Graffam. No. 1,127,882; Feb. 9; Gaz. vol. 211; p. 469.
- Pencil, Lead-. G. B. Bergen. No. 1,142,794; June 15; Gaz. vol. 215; p. 675.
- Pencil, Lead-. C. R. Keeran. No. 1,130,741; Mar. 9; Gaz. vol. 212; p. 348.
- Pencil, Lead-. C. R. Keeran. No. 1,151,016; Aug. 24; Gaz. vol. 217; p. 1118.
- Pencil, Lead-. C. R. Keeran. No. 1,153,115; Sept. 7; Gaz. vol. 218; p. 265.
- Pencil, Lead-. L. H. Sondheim. No. 1,125,890; Jan. 19; Gaz. vol. 210; p. 1027.
- Pencil-lead sharpener. T. Tarleton. No. 1,158,582; Nov. 2; Gaz. vol. 220; p. 61.
- Pencil, Magazing-. W. R. Heylman. No. 1,156,860; Oct. 12; Gaz. vol. 219; p. 561.

Alphabetical list of inventions—Continued.

- Pencil, Magazine lead-. J. Murchey. No. 1,124,786; Jan. 12; Gaz. vol. 210; p. 600.
- Pencil, Magic. W. Gaudet. No. 1,159,013; Nov. 2; Gaz. vol. 220; p. 209.
- Pencil-rack. B. B. Goldsmith. No. 1,158,916; Nov. 2; Gaz. vol. 220; p. 177.
- Pencil, Retouching-. W. F. Engelmann. No. 1,151,451; Aug. 24; Gaz. vol. 217; p. 1263.
- Pencil-securing holder. R. C. Miner. No. 1,144,426; June 29; Gaz. vol. 215; p. 1297.
- Pencil-sharpener. H. La Casse. No. 1,146,431; July 13; Gaz. vol. 216; p. 530.
- Pencil-sharpener. H. La Casse. No. 1,154,325; Sept. 21; Gaz. vol. 218; p. 762.
- Pencil-sharpener. D. P. Cera. No. 1,125,060; Jan. 19; Gaz. vol. 210; p. 733.
- Pencil-sharpener. S. Jensen. No. 1,130,294; Mar. 2; Gaz. vol. 212; p. 157.
- Pencil-sharpener. A. Leicht. No. 1,131,529; Mar. 9; Gaz. vol. 212; p. 619.
- Pencil-sharpener. J. K. Stewart. No. 1,160,091; Nov. 9; Gaz. vol. 220; p. 622.
- Pencil-sharpener, Check-controlled. G. H. Leathers. No. 1,146,719; July 13; Gaz. vol. 216; p. 629.
- Pencils and similar articles, Assortment-box for lead-. G. Wolf. No. 1,135,748; Apr. 13; Gaz. vol. 213; p. 633.
- Pencils, Eraser-tip for lead-. S. Kraus. No. 1,153,799; Sept. 14; Gaz. vol. 218; p. 546.
- Pencils, fountain-pens, or similar articles, Clip or holder for lead-. L. Draeger. No. 1,162,732; Nov. 30; Gaz. vol. 220; p. 1690.
- Pencils, Guard-plate for sharpening. P. H. Wheeler. No. 1,150,797; Aug. 17; Gaz. vol. 217; p. 985.
- Pencil-guide. W. E. Aycock. No. 1,164,449; Dec. 14; Gaz. vol. 221; p. 646.
- Pendulum. T. Ross. No. 1,130,435; Mar. 2; Gaz. vol. 212; p. 207.
- Pendulum, Apparatus for determining the period of a. O. L. Wills. No. 1,161,568; Nov. 23; Gaz. vol. 220; p. 1246.
- Penknife, Combination-. F. Feyrer. No. 1,127,609; Feb. 9; Gaz. vol. 211; p. 370.
- Peplum. W. H. Donahoo. No. 1,146,056; July 13; Gaz. vol. 216; p. 399.
- Pepper and salt box, Combination. J. P. Campbell. No. 1,149,630; Aug. 10; Gaz. vol. 217; p. 513.
- Perambulator. J. L. Knudsen. No. 1,135,383; Apr. 13; Gaz. vol. 213; p. 503.
- Perambulator. F. A. Nauts. No. 1,158,710; Nov. 2; Gaz. vol. 220; p. 104.
- Perambulator. T. P. Pedersen. No. 1,149,983; Aug. 10; Gaz. vol. 217; p. 640.
- Perambulator. F. F. Putnam. No. 1,130,763; Mar. 9; Gaz. vol. 212; p. 356.
- Perambulator. O. N. Turner. No. 1,140,085; May 18; Gaz. vol. 214; p. 906.
- Perambulators, Rocker attachment for. T. H. Desper. No. 1,135,266; Apr. 13; Gaz. vol. 213; p. 462.
- Perambulators, Sleigh attachment for. A. J. Ingersoll. No. 1,153,924; Sept. 21; Gaz. vol. 218; p. 624.
- Perch-pole. L. H. Dorn. No. 1,130,715; Mar. 9; Gaz. vol. 212; p. 339.
- Percolating device. T. Abtmeyer. No. 1,158,421; Nov. 2; Gaz. vol. 220; p. 3.
- Percolator. T. Abtmeyer. No. 1,124,683; Jan. 12; Gaz. vol. 210; p. 564.
- Percolator. W. D. Collins. No. 1,136,776; Apr. 20; Gaz. vol. 213; p. 1037.
- Percolator. J. W. Hagearty. No. 1,132,472; Mar. 16; Gaz. vol. 212; p. 994.
- Percolator. G. F. Hemming and M. L. Baker. No. 1,157,778; Oct. 26; Gaz. vol. 219; p. 974.
- Percolator. J. Konar. No. 1,127,780; Feb. 9; Gaz. vol. 211; p. 431.
- Percolator. E. E. Rose. No. 1,155,166; Sept. 28; Gaz. vol. 218; p. 1080.
- Percolator. A. A. Warner. (Reissue.) No. 1,400,4; Oct. 26; Gaz. vol. 219; p. 1207.
- Percolator. S. A. Wiltzie. No. 1,131,978; Mar. 16; Gaz. vol. 212; p. 814.
- Percolator, Coffee-. C. F. and W. C. Anderson. No. 1,130,131; Mar. 2; Gaz. vol. 212; p. 100.
- Percolator, Coffee-. L. Barabás and J. Hada. No. 1,143,022; June 15; Gaz. vol. 215; p. 755.
- Percolator, Coffee-. B. F. Childress. No. 1,146,922; July 20; Gaz. vol. 216; p. 721.
- Percolator, Coffee-. E. F. Goodman. No. 1,124,011; Jan. 5; Gaz. vol. 210; p. 276.
- Percolator, Coffee-. E. Mangisch and A. Rey. No. 1,160,924; Nov. 16; Gaz. vol. 220; p. 971.
- Percolator, Electric. H. P. Ball. No. 1,160,684; Nov. 16; Gaz. vol. 220; p. 888.
- Percolator-fount. F. Kuhn and F. E. Shailor. No. 1,136,018; Apr. 20; Gaz. vol. 213; p. 768.
- Percussion-drill. C. L. Lawton. No. 1,154,642; Sept. 28; Gaz. vol. 218; p. 900.
- Percussion-tables, Actuating device for. A. C. Campbell. No. 1,141,767; June 1; Gaz. vol. 215; p. 239.
- Percussion-tool. W. H. Miller. No. 1,162,636; Nov. 30; Gaz. vol. 220; p. 1657.
- Percussion-tool. H. Thiele. No. 1,162,889; Dec. 7; Gaz. vol. 221; p. 54.
- Percussive drill. C. C. Hansen. No. 1,154,921; Sept. 28; Gaz. vol. 218; p. 993.
- Percussive drill, Pulsatory. L. C. Bayles. No. 1,144,990; July 6; Gaz. vol. 216; p. 4.
- Percussive tool. L. C. Bayles. No. 1,134,718; Apr. 6; Gaz. vol. 213; p. 233.
- Perforated note-sheets, Die for. E. G. Clark. No. 1,159,830; Nov. 9; Gaz. vol. 220; p. 532.
- Perforating apparatus, Note-sheet-. E. G. Clark. No. 1,148,147; July 27; Gaz. vol. 216; p. 1180.
- Perforating bunches, Device for. A. von Sebastiani. No. 1,125,598; Jan. 19; Gaz. vol. 210; p. 924.
- Perforating-machine. C. A. Burton. No. 1,155,129; Sept. 28; Gaz. vol. 218; p. 1067.
- Perforating-machine. A. L. Day. No. 1,124,305; Jan. 12; Gaz. vol. 210; p. 427.
- Perforating-machine. A. L. Day. No. 1,140,505; May 25; Gaz. vol. 214; p. 1089.
- Perforating-machine. F. Hart. No. 1,160,885; Nov. 16; Gaz. vol. 220; p. 957.
- Perforating-machine. J. Powers. No. 1,138,314; May 4; Gaz. vol. 214; p. 208.
- Perforating-machine. F. P. Rosback. No. 1,125,723; Jan. 19; Gaz. vol. 210; p. 971.
- Perforating-machine. F. P. Rosback. No. 1,127,092; Feb. 2; Gaz. vol. 211; p. 151.
- Perforator. A. Dom. No. 1,150,179; Aug. 17; Gaz. vol. 217; p. 771.
- Perforator, Paper-. A. and C. Dom. No. 1,154,294; Sept. 21; Gaz. vol. 218; p. 751.
- Perforator, Paper-. C. Dom. No. 1,129,652; Feb. 23; Gaz. vol. 211; p. 1170.
- Perforators, Gage mechanism for paper-. S. E. Hilles. No. 1,129,489; Feb. 23; Gaz. vol. 211; p. 1115.
- Perfume-distributor. O. B. Wunschow. No. 1,131,307; Mar. 9; Gaz. vol. 212; p. 543.
- Perfuming apparatus. H. J. Keating. No. 1,137,632; Apr. 27; Gaz. vol. 213; p. 1378.
- Perimeters, Object-carrier for. E. B. Meyrowitz. No. 1,161,502; Nov. 23; Gaz. vol. 220; p. 1222.
- Periscope and the like. J. W. Hasselkus. No. 1,131,514; Mar. 9; Gaz. vol. 212; p. 614.
- Periscope, Binocular. G. N. Saegmuller. No. 1,153,259; Sept. 14; Gaz. vol. 218; p. 354.
- Permutation-lock. G. Albanese. No. 1,158,152; Oct. 26; Gaz. vol. 219; p. 1107.
- Permutation-lock. G. O. Bethke. No. 1,151,335; Aug. 24; Gaz. vol. 217; p. 1225.
- Permutation-lock. B. S. Burnett. No. 1,136,653; Apr. 20; Gaz. vol. 213; p. 993.
- Permutation-lock. B. S. Burnett. No. 1,163,504; Dec. 7; Gaz. vol. 221; p. 268.
- Permutation-lock. E. L. Dodson and C. J. Aebi. No. 1,150,506; Aug. 17; Gaz. vol. 217; p. 885.
- Permutation-lock. A. S. Elliot. No. 1,159,479; Nov. 9; Gaz. vol. 220; p. 405.
- Permutation-lock. J. Hoschek. No. 1,143,398; June 15; Gaz. vol. 215; p. 889.
- Permutation-lock. J. P. Jones. No. 1,127,447; Feb. 9; Gaz. vol. 211; p. 315.
- Permutation-lock. C. L. Kaps. No. 1,161,218; Nov. 23; Gaz. vol. 220; p. 1122.
- Permutation-lock. J. Kaszewski. No. 1,123,886; Jan. 5; Gaz. vol. 210; p. 235.
- Permutation-lock. A. Leksuczin. No. 1,140,751; May 25; Gaz. vol. 214; p. 1172.
- Permutation-lock. B. Lerback. No. 1,136,820; Apr. 20; Gaz. vol. 213; p. 1053.
- Permutation-lock. S. Mahar. No. 1,163,430; Dec. 7; Gaz. vol. 221; p. 244.
- Permutation-lock. J. A. McCoach. No. 1,166,233; Dec. 28; Gaz. vol. 221; p. 1352.
- Permutation-lock. M. Pedersen. No. 1,151,709; Aug. 31; Gaz. vol. 217; p. 1399.
- Permutation-lock. T. A. Sammons. No. 1,153,860; Nov. 2; Gaz. vol. 220; p. 159.
- Permutation-lock. A. A. Sebulu. No. 1,152,231; Aug. 31; Gaz. vol. 217; p. 1581.
- Peroxid of hydrogen, Making. F. Fischer. No. 1,128,966; Feb. 16; Gaz. vol. 211; p. 896.
- Peroxid of hydrogen, Manufacturing. W. Weber. No. 1,138,519; May 4; Gaz. vol. 214; p. 279.
- Peroxid of hydrogen, Manufacturing. W. Weber. No. 1,138,520; May 4; Gaz. vol. 214; p. 279.
- Peroxid of hydrogen with a high content of ozone and oxygen, Preparing a solution of. A. Wolff. No. 1,152,066; Aug. 31; Gaz. vol. 217; p. 1524.
- Perspective-finder. O. V. Humann. No. 1,138,480; May 4; Gaz. vol. 214; p. 267.
- Pessary. A. M. Palmer. No. 1,160,953; Nov. 16; Gaz. vol. 220; p. 982.
- Petroleum and its products, Refining. F. W. Mann and M. L. Chappell. No. 1,163,025; Dec. 7; Gaz. vol. 221; p. 102.
- Petroleum, Apparatus for the industrial manufacture of a new spirit by the isomerization of. A. Testelin and G. Renard. No. 1,138,260; May 4; Gaz. vol. 214; p. 187.
- Petroleum, Refining. J. C. Black. No. 1,152,478; Sept. 7; Gaz. vol. 218; p. 35.
- Petroleum, Refining. J. C. Black. No. 1,164,162; Dec. 14; Gaz. vol. 221; p. 544.

- Petroleum, Refining. H. G. Hennebutte. No. 1,165,877; Dec. 28; Gaz. vol. 221; p. 1223.
- Petroleum-refining apparatus. R. G. Jones. No. 1,166,375; Dec. 28; Gaz. vol. 221; p. 1402.
- Petroleum, Treating crude. F. Seidenschneur and J. Dehnst. No. 1,162,729; Nov. 30; Gaz. vol. 220; p. 1689.
- Petroleum, Treatment of. J. A. Dubbs. No. 1,135,506; Apr. 13; Gaz. vol. 213; p. 547.
- Petroleums and other heavy liquid hydrocarbons into volatile hydrocarbons distilling below 150° C., Converting. P. Sabatier and A. Mailhe. No. 1,152,765; Sept. 7; Gaz. vol. 218; p. 140.
- Pew. W. W. Dittmer. No. 1,149,559; Aug. 10; Gaz. vol. 217; p. 484.
- Pew, Forming a. W. W. Dittmar. No. 1,140,964; May 25; Gaz. vol. 214; p. 1249.
- Pharmaceutical preparations, Composition for coating. K. Kawai and Z. Miwa. No. 1,161,690; Nov. 23; Gaz. vol. 220; p. 1287.
- Pharmaceutical product. M. Engelmann and B. Merkel. No. 1,126,432; Jan. 26; Gaz. vol. 210; p. 1256.
- Phenol alcohols, Making insoluble bodies derived from. L. H. Baekeland. No. 1,146,045; July 13; Gaz. vol. 216; p. 395.
- Phenolic condensation product. L. H. Baekeland. No. 1,133,083; Mar. 23; Gaz. vol. 212; p. 1267.
- Phenolic condensation products, Cold molding of. E. Hemming. No. 1,125,906; Jan. 19; Gaz. vol. 210; p. 1034.
- Phenolic condensation products, Forming. J. W. Aylsworth. No. 1,146,300; July 13; Gaz. vol. 216; p. 483.
- Phonograph. C. Agner, Jr. No. 1,162,202; Nov. 30; Gaz. vol. 220; p. 1513.
- Phonograph. P. Catucci. No. 1,126,703; Feb. 2; Gaz. vol. 211; p. 12.
- Phonograph. O. B. Cole. No. 1,129,792; Feb. 23; Gaz. vol. 211; p. 1216.
- Phonograph. MZL Fuller. No. 1,146,418; July 13; Gaz. vol. 216; p. 524.
- Phonograph. N. H. Holland. No. 1,155,572; Oct. 5; Gaz. vol. 219; p. 86.
- Phonograph. J. Johnson. No. 1,145,146; July 6; Gaz. vol. 216; p. 60.
- Phonograph. E. M. Kellogg. No. 1,130,173; Mar. 2; Gaz. vol. 212; p. 115.
- Phonograph. C. B. Repp. No. 1,146,519; July 13; Gaz. vol. 216; p. 562.
- Phonograph. C. B. Repp. No. 1,156,931; Oct. 19; Gaz. vol. 219; p. 615.
- Phonograph. C. H. Roop. No. 1,143,784; June 22; Gaz. vol. 215; p. 1043.
- Phonograph. J. L. Stevens. No. 1,132,497; Mar. 16; Gaz. vol. 212; p. 1004.
- Phonograph. G. S. Tiffany. No. 1,136,739; Apr. 20; Gaz. vol. 213; p. 1024.
- Phonograph. G. H. Underhill. No. 1,158,750; Nov. 2; Gaz. vol. 220; p. 119.
- Phonograph-brake-operating means. W. J. Augustin. No. 1,151,330; Aug. 24; Gaz. vol. 217; p. 1224.
- Phonograph clutch mechanism. H. A. Preuss. No. 1,145,793; July 6; Gaz. vol. 216; p. 286.
- Phonograph, Device for automatically stopping the turntable of a. W. Cuthbertson. No. 1,154,975; Sept. 28; Gaz. vol. 218; p. 1012.
- Phonograph disk record. F. W. Thomas. No. 1,134,774; Apr. 6; Gaz. vol. 213; p. 253.
- Phonograph-horn. A. P. McArthur and E. Fletcher. No. 1,150,215; Aug. 17; Gaz. vol. 217; p. 783.
- Phonograph, Motor-driven. A. F. Madden. No. 1,127,056; Feb. 2; Gaz. vol. 211; p. 138.
- Phonograph-motors, Governor connection for. E. P. Morris. No. 1,148,610; Aug. 3; Gaz. vol. 217; p. 46.
- Phonograph. Multiple-record. W. E. Childers. No. 1,141,232; June 1; Gaz. vol. 215; p. 50.
- Phonograph-needle cutter, Fiber. A. Monard. No. 1,159,246; Nov. 2; Gaz. vol. 220; p. 291.
- Phonograph or talking-machine. T. A. Edison. No. 1,158,661; Nov. 2; Gaz. vol. 220; p. 89.
- Phonograph-record. T. A. Edison. No. 1,158,659; Nov. 2; Gaz. vol. 220; p. 89.
- Phonograph-record. T. A. Edison. No. 1,158,660; Nov. 2; Gaz. vol. 220; p. 89.
- Phonograph-record cabinet. H. T. Maurer. No. 1,154,263; Sept. 21; Gaz. vol. 218; p. 740.
- Phonograph-record-making apparatus. W. Rotter. No. 1,162,256; Nov. 30; Gaz. vol. 220; p. 1531.
- Phonograph record reproducer. D. W. Bryant. No. 1,128,382; Jan. 26; Gaz. vol. 210; p. 1239.
- Phonograph-records, Automatic stop for. S. J. Crafts. No. 1,129,647; Feb. 23; Gaz. vol. 211; p. 1169.
- Phonograph-records, Making. J. W. Aylsworth. No. 1,146,386; July 13; Gaz. vol. 216; p. 513.
- Phonograph-records, Making. T. A. Edison. No. 1,146,414; July 13; Gaz. vol. 216; p. 523.
- Phonograph-records, Shipping-container for. M. Fuller. No. 1,137,126; Apr. 27; Gaz. vol. 213; p. 1200.
- Phonograph-recorder. N. H. Holland. No. 1,131,782; Mar. 16; Gaz. vol. 212; p. 744.
- Phonograph, Repeating. A. F. Madden. No. 1,144,219; June 22; Gaz. vol. 215; p. 1198.
- Phonograph-reproducer. F. L. Dyer. No. 1,127,873; Feb. 9; Gaz. vol. 211; p. 465.
- Phonograph-reproducer. N. H. Holland. No. 1,137,487; Apr. 27; Gaz. vol. 213; p. 1329.
- Phonograph-reproducers, Diaphragm-setting for. F. W. Thomas. No. 1,134,775; Apr. 6; Gaz. vol. 213; p. 253.
- Phonograph reproducing device. W. Tures. No. 1,146,744; July 13; Gaz. vol. 216; p. 638.
- Phonograph sound-box. C. B. Repp. No. 1,163,854; Dec. 14; Gaz. vol. 221; p. 438.
- Phonograph-stylus and other article, Coated. E. A. Eckhardt. No. 1,162,285; Nov. 30; Gaz. vol. 220; p. 1541.
- Phonographs, Automatic brake for. W. E. Hoschke. No. 1,148,477; July 27; Gaz. vol. 216; p. 1294.
- Phonographs, Automatic stop for. F. W. D'Olier. No. 1,135,166; Apr. 13; Gaz. vol. 213; p. 430.
- Phonographs, Automatic stopping device for. E. C. Walter. No. 1,141,507; June 1; Gaz. vol. 215; p. 150.
- Phonographic and motion-picture apparatus for producing indexed synchronous records, Combined. E. H. Amet. No. 1,162,433; Nov. 30; Gaz. vol. 220; p. 1591.
- Phonographic mechanism, Manually-controlled. P. Hesselius. No. 1,132,092; Mar. 16; Gaz. vol. 212; p. 855.
- Phonographic molding apparatus. W. F. Nehr. No. 1,162,800; Dec. 7; Gaz. vol. 221; p. 24.
- Phonographic record. T. Eynon. No. 1,158,377; Oct. 26; Gaz. vol. 219; p. 1185.
- Phonographic recording apparatus. T. A. Edison. No. 1,152,614; Sept. 7; Gaz. vol. 218; p. 86.
- Phonography and its application, Indicating device for. M. de Pezzer. No. 1,166,115; Dec. 28; Gaz. vol. 221; p. 1306.
- Phosphate composition and calcining phosphates. S. B. Newberry and H. N. Barrett. No. 1,162,802; Dec. 7; Gaz. vol. 221; p. 24.
- Phosphate, Manufacture of monoalkali metal. E. H. Strickler. No. 1,150,899; Aug. 24; Gaz. vol. 217; p. 1077.
- Phosphate, Manufacture of monoalkali metal. E. H. Strickler. No. 1,150,900; Aug. 24; Gaz. vol. 217; p. 1078.
- Phosphate material and the like, Drying and enriching. M. M. Haff and T. L. Willson. No. 1,161,473; Nov. 23; Gaz. vol. 220; p. 1213.
- Phosphate-rock, Treating natural. F. K. Hoover and A. J. Mason. No. 1,128,874; Feb. 16; Gaz. vol. 211; p. 861.
- Phosphate-rock, Treating pebble. W. F. Lay. No. 1,129,407; Feb. 23; Gaz. vol. 211; p. 1085.
- Phosphate-rock-washing apparatus. G. L. Davison. No. 1,140,962; May 25; Gaz. vol. 214; p. 1248.
- Phosphates, Treating. C. N. Meriwether. No. 1,149,390; Aug. 10; Gaz. vol. 217; p. 425.
- Phosphorus from its phosphate combinations, Separating. S. Peacock. No. 1,129,504; Feb. 23; Gaz. vol. 211; p. 1119.
- Phosphorus pentachloride, Producing. S. Peacock. No. 1,147,183; July 20; Gaz. vol. 216; p. 812.
- Photograph-film holder. A. P. Davis. No. 1,130,152; Mar. 2; Gaz. vol. 212; p. 107.
- Photograph-film package. H. Wyman. (Reissue.) No. 1,387,1; Jan. 19; Gaz. vol. 210; p. 1042.
- Photograph-holder. G. H. Smith. No. 1,136,056; Apr. 20; Gaz. vol. 213; p. 781.
- Photographs, Apparatus for printing vignettes. G. S. Barberis. No. 1,126,346; Jan. 26; Gaz. vol. 210; p. 1226.
- Photographic and like purposes, Objective for. L. B. Booth. No. 1,156,743; Oct. 12; Gaz. vol. 219; p. 519.
- Photographic apparatus. D. Dimentberg. No. 1,156,984; Oct. 19; Gaz. vol. 219; p. 634.
- Photographic apparatus. J. J. Unbehaun. No. 1,149,157; Aug. 3; Gaz. vol. 217; p. 236.
- Photographic apparatus, Plate-holder for. W. Decke. No. 1,124,306; Jan. 12; Gaz. vol. 210; p. 428.
- Photographic apparatus, Plate-pack for. M. Niell. No. 1,162,385; Nov. 30; Gaz. vol. 220; p. 1574.
- Photographic appliance. E. A. Howland. No. 1,127,763; Feb. 9; Gaz. vol. 211; p. 425.
- Photographic color-print and producing same. W. F. Fox. No. 1,166,121; Dec. 28; Gaz. vol. 221; p. 1308.
- Photographic copy-holder. E. W. Sweigard. No. 1,147,196; July 20; Gaz. vol. 216; p. 817.
- Photographic-copying apparatus. O. T. Gregory and N. W. Carkhuff. No. 1,127,231; Feb. 2; Gaz. vol. 211; p. 200.
- Photographic-dark-room lantern attachment, Portable. G. F. Holland. No. 1,145,589; July 6; Gaz. vol. 216; p. 213.
- Photographic dark slide, Daylight-loading. J. Donald. No. 1,158,902; Nov. 2; Gaz. vol. 220; p. 172.
- Photographic developer. C. J. Thatcher. No. 1,158,011; Oct. 26; Gaz. vol. 219; p. 1057.
- Photographic developing apparatus. E. W. Caldwell. No. 1,141,314; June 1; Gaz. vol. 215; p. 81.
- Photographic device. H. V. Palmer. No. 1,143,722; June 22; Gaz. vol. 215; p. 1022.
- Photographic exposing mechanism. W. F. Folmer. No. 1,139,023; May 11; Gaz. vol. 214; p. 497.
- Photographic exposure-meter. B. M. Lupton, Jr. No. 1,144,142; June 22; Gaz. vol. 215; p. 1170.
- Photographic film. F. D. Brewster. No. 1,145,968; July 13; Gaz. vol. 216; p. 366.
- Photographic film. W. B. Featherstone. No. 1,145,410; July 6; Gaz. vol. 216; p. 152.

Alphabetical list of inventions—Continued.

- Photographic film and means for carrying and exposing same. Sensitized. S. Cocanari. No. 1,140,877; May 25; Gaz. vol. 214; p. 1217.
- Photographic film and print washer. H. E. Nichols. No. 1,136,705; Apr. 20; Gaz. vol. 213; p. 1012.
- Photographic-film apparatus. F. W. Battershall. No. 1,148,139; July 27; Gaz. vol. 216; p. 1177.
- Photographic-film developing and fixing apparatus. H. A. R. Corey. No. 1,140,500; May 25; Gaz. vol. 214; p. 1087.
- Photographic-film package. H. Wyman. No. 1,132,993; Mar. 23; Gaz. vol. 212; p. 1235.
- Photographic-film packs provided with pulling-tabs. Packaging for. O. Becker. No. 1,127,851; Feb. 9; Gaz. vol. 211; p. 457.
- Photographic-film sheets, Method of and device for holding. H. C. Sievers. No. 1,139,079; May 11; Gaz. vol. 214; p. 516.
- Photographic-film-winding box. C. W. Greene. No. 1,127,756; Feb. 9; Gaz. vol. 211; p. 422.
- Photographic films, Apparatus for treating. J. C. Wright. No. 1,158,615; Nov. 2; Gaz. vol. 220; p. 73.
- Photographic material. W. R. Schwab. No. 1,141,012; May 25; Gaz. vol. 214; p. 1264.
- Photographic objective. G. S. Dey and M. Zwillinger. No. 1,160,148; Nov. 16; Gaz. vol. 220; p. 697.
- Photographic or cinematographic film. L. Gaumont. No. 1,159,924; Nov. 9; Gaz. vol. 220; p. 566.
- Photographic paper, Sensitizing composition for. F. I. Rubricius. No. 1,126,872; Feb. 2; Gaz. vol. 211; p. 74.
- Photographic-picture-enlarging apparatus. C. W. White. No. 1,157,742; Oct. 26; Gaz. vol. 219; p. 963.
- Photographic-plate-developing tank. F. A. Strawsine. No. 1,144,008; June 22; Gaz. vol. 215; p. 1121.
- Photographic-plate holder. P. K. Stern. No. 1,127,539; Feb. 9; Gaz. vol. 211; p. 346.
- Photographic-plate magazine. G. C. Bruhn, Jr. No. 1,166,353; Dec. 28; Gaz. vol. 221; p. 1394.
- Photographic plates, Apparatus for treating. A. C. Hansch. No. 1,135,111; Apr. 13; Gaz. vol. 213; p. 411.
- Photographic-print-drying apparatus. H. T. Neuman. No. 1,148,117; July 27; Gaz. vol. 216; p. 1170.
- Photographic prints and other sheet materials, Cutter for. W. H. Johnson, A. L. Bird, and C. E. Connell. No. 1,161,773; Nov. 23; Gaz. vol. 220; p. 1314.
- Photographic prints, films, &c., Apparatus for washing. C. S. Baynton. No. 1,124,196; Jan. 5; Gaz. vol. 210; p. 341.
- Photographic prints in natural colors from Lumière, autochrome, and other color-sensitive lined plates, Obtaining. M. F. Ungerer. No. 1,128,389; Feb. 16; Gaz. vol. 211; p. 692.
- Photographic prints, Producing. M. S. Lovell. No. 1,137,503; Apr. 27; Gaz. vol. 213; p. 1335.
- Photographic-printing apparatus. T. Harbers. No. 1,156,528; Oct. 12; Gaz. vol. 219; p. 444.
- Photographic-printing apparatus. A. S. Howell. (Re-issue.) No. 14,023; Nov. 30; Gaz. vol. 220; p. 1694.
- Photographic-printing apparatus. R. W. Kittredge. No. 1,159,955; Nov. 9; Gaz. vol. 220; p. 577.
- Photographic-printing apparatus. S. A. Smith. No. 1,154,735; Sept. 28; Gaz. vol. 218; p. 930.
- Photographic-printing device. A. H. Wallace. No. 1,159,441; Nov. 9; Gaz. vol. 220; p. 392.
- Photographic-printing frame. F. A. and O. F. Helwig. No. 1,148,967; Aug. 3; Gaz. vol. 217; p. 171.
- Photographic-printing machine. B. O. Fjorkenstad. No. 1,125,680; Jan. 19; Gaz. vol. 210; p. 954.
- Photographic-printing machine. W. E. Grote. No. 1,159,373; Nov. 9; Gaz. vol. 220; p. 367.
- Photographic-printing machine. F. W. Norton. No. 1,149,852; Aug. 10; Gaz. vol. 217; p. 592.
- Photographic-printing machine. W. T. Oxley. No. 1,124,795; Jan. 12; Gaz. vol. 210; p. 604.
- Photographic-printing machine. E. E. Wood. No. 1,142,653; June 8; Gaz. vol. 215; p. 586.
- Photographic-printing machine, Automatic. T. C. Korsmo and T. C. Olson. No. 1,151,954; Aug. 31; Gaz. vol. 217; p. 1484.
- Photographic process. W. F. Fox. No. 1,166,122; Dec. 28; Gaz. vol. 221; p. 1309.
- Photographic process. W. F. Fox. No. 1,166,123; Dec. 28; Gaz. vol. 221; p. 1310.
- Photographic record of curves of oscillographs, rheographs, and the like, Rapid. A. E. Blondel. No. 1,139,476; May 18; Gaz. vol. 214; p. 691.
- Photographic reproduction, Colored. J. Lewisohn. No. 1,126,495; Jan. 26; Gaz. vol. 210; p. 1278.
- Photographic-roll film. J. Brewer. No. 1,160,037; Nov. 9; Gaz. vol. 220; p. 604.
- Photographic-roll-film-developing apparatus. F. A. Binder. No. 1,159,565; Nov. 9; Gaz. vol. 220; p. 435.
- Photographic-roll holder. H. B. Barrier. No. 1,140,099; May 18; Gaz. vol. 214; p. 912.
- Photographic-roll holder. J. W. Cutler. No. 1,144,934; June 29; Gaz. vol. 215; p. 1470.
- Photographic-roll holder. J. Richard and R. P. M. Lavie. No. 1,155,508; Oct. 5; Gaz. vol. 219; p. 65.
- Photographic screen for half-tone work. J. W. Morris. No. 1,161,824; Nov. 23; Gaz. vol. 220; p. 1332.
- Photographic sensitized material, Holder for. W. F. Folmer. No. 1,146,858; July 20; Gaz. vol. 216; p. 698.
- Photographic shutter. E. H. R. Barton. No. 1,141,681; June 1; Gaz. vol. 215; p. 211.
- Photographic shutter. A. Wollensak. No. 1,143,926; June 22; Gaz. vol. 215; p. 1091.
- Photographic-shutter operator. B. A. Slocum. No. 1,154,892; Sept. 23; Gaz. vol. 218; p. 983.
- Photographic-shutter-tripping mechanism. W. Sykes. No. 1,132,229; Mar. 16; Gaz. vol. 212; p. 906.
- Photographic-studio-lighting apparatus. E. Goldensky and P. H. Bartlett. No. 1,150,028; Aug. 17; Gaz. vol. 217; p. 716.
- Photographing and developing apparatus. G. C. Beidler. No. 1,153,017; Sept. 7; Gaz. vol. 218; p. 233.
- Photographing and developing apparatus. G. C. Beidler. No. 1,157,611; Oct. 19; Gaz. vol. 219; p. 851.
- Photographing and developing apparatus. G. C. Beidler. No. 1,160,241; Nov. 16; Gaz. vol. 220; p. 729.
- Photographing and developing apparatus. G. C. Beidler. No. 1,160,242; Nov. 16; Gaz. vol. 220; p. 729.
- Photographing apparatus. G. C. Beidler. No. 1,155,785; Oct. 5; Gaz. vol. 219; p. 160.
- Photographing apparatus, Automatic. A. Lattau. No. 1,135,032; Apr. 13; Gaz. vol. 213; p. 384.
- Photography and for projection, Lens system for color. M. Audibert. No. 1,124,253; Jan. 12; Gaz. vol. 210; p. 408.
- Photography and general photographic purposes, Screen for color. J. Rheinberg. No. 1,161,731; Nov. 23; Gaz. vol. 220; p. 1299.
- Photography and making the same, Film for color. R. G. Bradshaw and J. C. Lyell. No. 1,139,633; May 18; Gaz. vol. 214; p. 746.
- Photography, Apparatus for producing a round or relief effect by. H. B. Byron. No. 1,154,232; Sept. 21; Gaz. vol. 218; p. 729.
- Photography, Apparatus for submarine. J. T. Parker. No. 1,149,678; Aug. 10; Gaz. vol. 217; p. 531.
- Photography, Color. C. L. A. Brasseur. No. 1,163,207; Dec. 7; Gaz. vol. 221; p. 166.
- Photography, Color. A. E. Conrady and A. Hamburger. No. 1,140,576; May 25; Gaz. vol. 214; p. 1113.
- Photography, Color. W. B. Featherstone. No. 1,127,382; Feb. 2; Gaz. vol. 211; p. 250.
- Photography, Color. F. E. Ives. No. 1,145,143; July 6; Gaz. vol. 216; p. 59.
- Photography, Color. G. S. Whitfield. No. 1,144,575; June 29; Gaz. vol. 215; p. 1346.
- Photography, Flash-light. W. Nesbit. No. 1,152,203; Aug. 31; Gaz. vol. 217; p. 1571.
- Photography, Image-transformer for distance. C. Stille. No. 1,141,850; June 1; Gaz. vol. 215; p. 266.
- Photography, Making reel-pictures in motion. C. A. Birchfield. No. 1,164,252; Dec. 14; Gaz. vol. 221; p. 574.
- Photography print, Color. F. E. Ives. No. 1,160,288; Nov. 16; Gaz. vol. 220; p. 745.
- Photography, Screen for color. C. L. A. Brasseur. No. 1,154,607; Sept. 23; Gaz. vol. 218; p. 887.
- Photography, Selecting-screen for color. L. Dufay. No. 1,155,900; Oct. 5; Gaz. vol. 219; p. 200.
- Physician's treating-table. C. H. Weston. No. 1,138,030; May 4; Gaz. vol. 214; p. 107.
- Pianist's finger-trainer. R. Barrett. No. 1,126,938; Feb. 2; Gaz. vol. 211; p. 96.
- Piano. C. Mehlin. No. 1,164,005; Dec. 14; Gaz. vol. 221; p. 490.
- Piano-action. I. F. Gilmore. No. 1,125,304; Jan. 19; Gaz. vol. 210; p. 820.
- Piano-action. E. A. Mayor. No. 1,135,386; Apr. 13; Gaz. vol. 213; p. 504.
- Piano-action flange. W. J. Luthmers. No. 1,157,629; Oct. 19; Gaz. vol. 219; p. 857.
- Piano action, Grand. A. J. Flint. No. 1,125,084; Jan. 19; Gaz. vol. 210; p. 741.
- Piano-action, Pneumatic. R. W. Cooper, F. A. Lee, and R. J. Meyer. No. 1,133,793; Mar. 30; Gaz. vol. 212; p. 1557.
- Piano-action, Pneumatic. B. T. Treahy. No. 1,130,943; Mar. 9; Gaz. vol. 212; p. 418.
- Piano action, Upright. G. F. Abendschein and A. Staib. No. 1,123,646; Jan. 5; Gaz. vol. 210; p. 153.
- Piano action, Upright. L. Heitzmann. No. 1,124,134; Jan. 5; Gaz. vol. 210; p. 318.
- Piano actions, Pianissimo device for grand. A. T. Strauch. No. 1,157,262; Oct. 19; Gaz. vol. 219; p. 734.
- Piano-actions, Rebound-checking mechanism for. G. F. Abendschein and A. Staib. No. 1,126,931; Feb. 2; Gaz. vol. 211; p. 94.
- Piano attachment. I. Traversaro. No. 1,144,512; June 29; Gaz. vol. 215; p. 1326.
- Piano, Automatic player-. E. B. Sherman. No. 1,152,852; Sept. 7; Gaz. vol. 218; p. 174.
- Piano, Automatic player-. J. A. Weser. No. 1,156,956; Oct. 19; Gaz. vol. 219; p. 623.
- Piano, Automatically-operated. A. G. Gulbrandsen. No. 1,150,861; Aug. 24; Gaz. vol. 217; p. 1066.
- Piano-back. W. G. Betz. No. 1,155,295; Sept. 28; Gaz. vol. 218; p. 1119.
- Piano-bench. J. C. Haase. No. 1,159,215; Nov. 2; Gaz. vol. 220; p. 281.
- Piano-bench. J. C. McCrary. No. 1,141,130; June 1; Gaz. vol. 215; p. 14.

Alphabetical list of inventions—Continued.

- Piano-bench and cabinet. W. B. Noble. No. 1,165,200; Dec. 21; Gaz. vol. 221; p. 948.
- Piano-bench, Convertible. E. B. Gregor. No. 1,136,123; Apr. 20; Gaz. vol. 213; p. 803.
- Piano case, Grand-. L. Avisus. No. 1,160,969; Nov. 16; Gaz. vol. 220; p. 987.
- Piano casing, Player-. F. C. Billings. No. 1,129,443; Feb. 23; Gaz. vol. 211; p. 1097.
- Piano casing, Player-. C. R. Terry and B. F. Money. No. 1,161,360; Nov. 23; Gaz. vol. 220; p. 1173.
- Piano-cleaning attachment, Player-. L. H. Granzow. No. 1,127,617; Feb. 9; Gaz. vol. 211; p. 372.
- Piano, Combination grand-. P. Welin. No. 1,133,348; Mar. 30; Gaz. vol. 212; p. 1396.
- Piano, Electric. H. K. Sandell. No. 1,148,719; Aug. 3; Gaz. vol. 217; p. 85.
- Piano fall-board. H. B. Todd. No. 1,139,926; May 18; Gaz. vol. 214; p. 849.
- Piano frame, Upright-. W. Lane. No. 1,146,432; July 13; Gaz. vol. 216; p. 530.
- Piano frame, Upright-. W. Lane. No. 1,146,433; July 13; Gaz. vol. 216; p. 531.
- Piano, Gong-. L. L. Schlensker. No. 1,134,351; Apr. 6; Gaz. vol. 213; p. 98.
- Piano-hammer. H. W. Hicks. No. 1,160,409; Nov. 16; Gaz. vol. 220; p. 787.
- Piano-key. J. Ammon. No. 1,166,351; Dec. 28; Gaz. vol. 221; p. 1393.
- Piano-key mounting. W. A. Goble. No. 1,148,085; July 27; Gaz. vol. 216; p. 1157.
- Piano-keyboard, Detachable. H. Rowntree. No. 1,157,047; Oct. 19; Gaz. vol. 219; p. 657.
- Piano-keyboard indicator. G. Fowler. No. 1,137,394; Apr. 27; Gaz. vol. 213; p. 1297.
- Piano-maker's tool. A. P. Brown. No. 1,164,255; Dec. 14; Gaz. vol. 221; p. 575.
- Piano-operating device, Player-. O. Higel. No. 1,155,570; Oct. 5; Gaz. vol. 219; p. 85.
- Piano-pedal. T. H. De Pew. No. 1,143,177; June 15; Gaz. vol. 215; p. 810.
- Piano pedal-action, Player-. C. H. Ladew, Sr. No. 1,128,882; Feb. 16; Gaz. vol. 211; p. 864.
- Piano-pedal attachment, Child's. A. L. Reinhart. No. 1,162,880; Dec. 7; Gaz. vol. 221; p. 51.
- Piano-pedal-operating device. H. C. Knight. No. 1,165,681; Dec. 28; Gaz. vol. 221; p. 1156.
- Piano-plates, Method of and apparatus for making molds for casting. H. R. Simms. No. 1,131,743; Mar. 16; Gaz. vol. 212; p. 728.
- Piano, Player-. J. H. Beck and G. Bedford. No. 1,164,912; Dec. 21; Gaz. vol. 221; p. 847.
- Piano, Player-. W. J. Cherry. No. 1,166,185; Dec. 28; Gaz. vol. 221; p. 1332.
- Piano, Player-. C. V. Jameson. No. 1,137,404; Apr. 27; Gaz. vol. 213; p. 1301.
- Piano, Player-. F. A. Lee. No. 1,131,390; Mar. 9; Gaz. vol. 212; p. 571.
- Piano, Player-. F. A. Lee, R. W. Cooper, and R. J. Meyer. No. 1,131,470; Mar. 9; Gaz. vol. 212; p. 599.
- Piano, Player-. M. Newcomer. No. 1,152,540; Sept. 7; Gaz. vol. 218; p. 59.
- Piano-player. M. Newcomer. No. 1,131,074; Mar. 9; Gaz. vol. 212; p. 462.
- Piano-player. E. C. Wamalink. No. 1,154,146; Sept. 21; Gaz. vol. 218; p. 700.
- Piano-player. F. W. Wood. No. 1,152,255; Aug. 31; Gaz. vol. 217; p. 1588.
- Piano-player action. Pneumatic. W. A. Kruck. No. 1,153,554; Sept. 14; Gaz. vol. 218; p. 462.
- Piano-player and phonograph, Combined. W. M. Davis. No. 1,164,265; Dec. 14; Gaz. vol. 221; p. 579.
- Piano-player and talking-machine, Combined. G. B. Kelly. No. 1,132,275; Mar. 16; Gaz. vol. 212; p. 924.
- Piano-player, Automatic. H. P. Ballou. No. 1,136,924; Apr. 27; Gaz. vol. 213; p. 1126.
- Piano-player, Coin-operated automatic. J. P. Ioor. No. 1,141,549; June 1; Gaz. vol. 215; p. 165.
- Piano-player, Electric. P. J. Dreher. No. 1,133,370; Mar. 30; Gaz. vol. 212; p. 1404.
- Piano-player. Electrically-operated. W. C. Reed. No. 1,152,841; Sept. 7; Gaz. vol. 218; p. 169.
- Piano-player mechanism. W. F. Cooper. No. 1,133,710; Mar. 30; Gaz. vol. 212; p. 1528.
- Piano-player, Pneumatic. H. P. Ballou. No. 1,136,923; Apr. 27; Gaz. vol. 213; p. 1125.
- Piano-player, Pneumatic. E. C. Wamalink. No. 1,156,951; Oct. 19; Gaz. vol. 219; p. 621.
- Piano-players, Machine for piercing the sound-paper of. J. M. Tourtel and V. C. Doubleday. No. 1,124,976; Jan. 12; Gaz. vol. 210; p. 668.
- Piano-players, Modulating device and muffler for pneumatic. M. Clark. No. 1,136,656; Apr. 20; Gaz. vol. 213; p. 994.
- Piano-players, Pneumatic action for. E. C. Hiscock. No. 1,147,725; July 27; Gaz. vol. 216; p. 1029.
- Piano-players, Pneumatic action for. N. Magnuson. No. 1,158,067; Oct. 26; Gaz. vol. 219; p. 1077.
- Piano-players, Pneumatic action for interior. M. Clark. No. 1,160,260; Nov. 16; Gaz. vol. 220; p. 736.
- Piano-players, Pneumatic motor for. J. Leisch. No. 1,131,391; Mar. 9; Gaz. vol. 212; p. 571.
- Piano-players, Tempo-controller for. E. T. Turney. No. 1,131,183; Mar. 9; Gaz. vol. 212; p. 499.
- Piano-players, Tempo-regulator and rewinding mechanism for. A. A. Steinhilber. No. 1,141,283; June 1; Gaz. vol. 215; p. 69.
- Piano-players, Valve mechanism for. P. Wuest, Jr. No. 1,127,146; Feb. 2; Gaz. vol. 211; p. 170.
- Piano-playing attachment, Disappearing. W. F. Deitmeier. No. 1,154,846; Sept. 28; Gaz. vol. 218; p. 967.
- Piano-playing attachments, Treadle for. A. A. Steinhilber. No. 1,136,733; Apr. 20; Gaz. vol. 213; p. 1022.
- Piano, Pneumatically-operated. C. Gulbranson. No. 1,159,374; Nov. 9; Gaz. vol. 220; p. 367.
- Piano-protector. M. Gunther. No. 1,130,592; Mar. 2; Gaz. vol. 212; p. 263.
- Piano recording attachment. S. L. Dickinson. No. 1,126,724; Feb. 2; Gaz. vol. 211; p. 20.
- Piano, Self-playing grand. W. J. Keeley. No. 1,133,478; Mar. 30; Gaz. vol. 212; p. 1441.
- Piano-technic instruction, Art of and means for. M. Von Unschuld-Lazard. No. 1,133,074; Mar. 23; Gaz. vol. 212; p. 1264.
- Piano-tuning hammer. W. J. Ryan. No. 1,123,932; Jan. 5; Gaz. vol. 210; p. 250.
- Piano, Upright. J. A. Weser. No. 1,134,496; Apr. 8; Gaz. vol. 213; p. 151.
- Piano without strings. J. C. Deagan. No. 1,128,112; Feb. 9; Gaz. vol. 211; p. 549.
- Pianos and player-pianos, Coupler for. J. C. Moore and E. L. Winston. No. 1,157,573; Oct. 19; Gaz. vol. 219; p. 839.
- Pianos and the like, Fall-board for. O. Higel. No. 1,137,318; Apr. 27; Gaz. vol. 213; p. 1269.
- Pianos and the like, Governor-bellows for player-. A. Young. No. 1,146,542; July 13; Gaz. vol. 216; p. 570.
- Pianos, Automatic expression control for mechanically-operated. M. S. Howard. No. 1,132,584; Mar. 23; Gaz. vol. 212; p. 1083.
- Pianos, Crash-bellows for player-. F. G. Lynde. No. 1,158,823; Nov. 2; Gaz. vol. 220; p. 146.
- Pianos, Hammer rest-rall for. W. G. Betz. No. 1,143,936; June 22; Gaz. vol. 215; p. 1096.
- Pianos, Heel-mat for. H. L. Cruttenden and F. L. Lawrence. No. 1,157,846; Oct. 26; Gaz. vol. 219; p. 999.
- Pianos, Key-locking means for player-. A. Stahl. No. 1,133,674; Mar. 30; Gaz. vol. 212; p. 1515.
- Pianos, Key-tester for player-. P. Gddertzt. No. 1,141,331; June 1; Gaz. vol. 215; p. 87.
- Pianos, Mousse-guard for. S. D. Bell. No. 1,149,423; Aug. 10; Gaz. vol. 217; p. 437.
- Pianos or like instruments, Attachment on player-. J. E. Bezdol. No. 1,161,807; Nov. 23; Gaz. vol. 220; p. 1327.
- Pianos or the like, Damper mechanism for player-. E. T. Turney. No. 1,125,217; Jan. 19; Gaz. vol. 210; p. 789.
- Pianos, Phonograph attachment for player-. I. Fry and J. Shanks. No. 1,123,512; Jan. 5; Gaz. vol. 210; p. 108.
- Pianos, Phonograph attachment for player-. J. Shanks. No. 1,130,850; Mar. 9; Gaz. vol. 212; p. 386.
- Pianos, piano-players, &c., Adjusting device for. J. A. Weser. No. 1,159,630; Nov. 9; Gaz. vol. 220; p. 459.
- Pianos, Pneumatic action for player-. O. Higel. No. 1,155,571; Oct. 5; Gaz. vol. 219; p. 85.
- Pianos, Pneumatic action for player-. E. C. Hiscock. No. 1,125,320; Jan. 19; Gaz. vol. 210; p. 826.
- Pianos, Pneumatic action for player-. G. Schumann, Sr. No. 1,136,372; Apr. 20; Gaz. vol. 213; p. 893.
- Pick. E. E. Rhoads. No. 1,161,974; Nov. 30; Gaz. vol. 220; p. 1432.
- Pick. F. S. Stevens. No. 1,148,633; Aug. 3; Gaz. vol. 217; p. 54.
- Pick, drill, and the like. W. J. Mundy. No. 1,159,326; Nov. 2; Gaz. vol. 220; p. 319.
- Pick-fastener. A. Ostlund. No. 1,137,522; Apr. 27; Gaz. vol. 213; p. 1341.
- Pick-up for flat implements. R. B. Ware. No. 1,145,531; July 6; Gaz. vol. 216; p. 194.
- Picker. See—
- Corn-picker.
 - Cotton-picker.
 - Cotton-boll picker.
 - Cotton-lint picker.
 - Fruit-picker.
 - Loom-picker.
 - Olive-picker.
 - Peanut-picker.
 - Potato-picker.
 - Stone-picker.
- Picker-check. J. H. Jones and L. G. Sabbag. No. 1,138,660; May 11; Gaz. vol. 214; p. 366.
- Picker-check. J. Whitworth. No. 1,161,815; Nov. 23; Gaz. vol. 220; p. 1329.
- Picker-head check. A. A. Perkins. No. 1,137,525; Apr. 27; Gaz. vol. 213; p. 1342.
- Picker-stick check. J. F. Vaillancourt. No. 1,155,529; Oct. 5; Gaz. vol. 219; p. 72.
- Picker-sticks, Lug-strap for. W. H. Kelley. No. 1,160,903; Nov. 16; Gaz. vol. 220; p. 964.
- Pickling cantaloups. A. O. Edwards. No. 1,155,555; Oct. 5; Gaz. vol. 219; p. 81.
- Pickling-weight. S. Buffenbarger. No. 1,136,772; Apr. 20; Gaz. vol. 213; p. 1035.
- Picture and making the same. J. G. Kitchell. No. 1,144,964; June 29; Gaz. vol. 215; p. 1480.
- Picture and making the same, Changeable. C. W. Kanoit. No. 1,150,374; Aug. 17; Gaz. vol. 217; p. 839.

Alphabetical list of inventions—Continued.

- Picture apparatus, Motion-. C. F. Jenkins. No. 1,152,515; Sept. 7; Gaz. vol. 218; p. 49.
- Picture apparatus, Motion-. C. F. Jenkins. No. 1,153,164; Sept. 7; Gaz. vol. 218; p. 281.
- Picture apparatus, Motion-. C. F. Jenkins. No. 1,163,757; Dec. 14; Gaz. vol. 221; p. 404.
- Picture apparatus, Motion-. E. W. Salmon, Jr. No. 1,125,729; Jan. 19; Gaz. vol. 210; p. 973.
- Picture apparatus, Moving-. C. D. Condon. No. 1,123,689; Jan. 5; Gaz. vol. 210; p. 167.
- Picture apparatus, Moving-. J. J. Connelly. No. 1,156,211; Oct. 12; Gaz. vol. 219; p. 332.
- Picture apparatus, Moving-. R. E. Lo Rentz. No. 1,126,645; Jan. 26; Gaz. vol. 210; p. 1336.
- Picture apparatus, Moving-. W. A. Ryan. No. 1,153,341; Sept. 14; Gaz. vol. 218; p. 383.
- Picture-building. R. E. Doolittle and P. S. Johst. No. 1,153,424; Sept. 14; Gaz. vol. 218; p. 414.
- Picture car, Moving-. A. Truchan. No. 1,145,946; July 13; Gaz. vol. 216; p. 359.
- Picture device, Motion-. P. J. Taylor. No. 1,152,989; Sept. 7; Gaz. vol. 218; p. 224.
- Picture device, Story. V. M. Earle. No. 1,131,494; Mar. 9; Gaz. vol. 212; p. 607.
- Picture-display machine, Automatic. W. A. Partridge and W. L. and C. L. Hummel. No. 1,166,384; Dec. 28; Gaz. vol. 221; p. 1406.
- Picture-exhibitor. L. L. Manetsch and C. R. Crisp. No. 1,126,814; Feb. 2; Gaz. vol. 211; p. 53.
- Picture-film cabinet, Motion-. W. L. Smith. No. 1,144,736; June 29; Gaz. vol. 215; p. 1403.
- Picture-film case, Motion-. W. P. McNeel. No. 1,155,940; Oct. 5; Gaz. vol. 219; p. 213.
- Picture film, Motion-. W. B. Featherstone. No. 1,126,188; Jan. 26; Gaz. vol. 210; p. 1171.
- Picture film, Motion-. J. Tessier. No. 1,159,130; Nov. 2; Gaz. vol. 220; p. 248.
- Picture film, Moving-. W. A. Beatty. No. 1,158,963; Nov. 2; Gaz. vol. 220; p. 193.
- Picture-film-printing machine, Moving-. E. L. Crabb. No. 1,159,650; Nov. 9; Gaz. vol. 220; p. 466.
- Picture-film reel, Moving-. C. T. Duffey. No. 1,164,999; Dec. 21; Gaz. vol. 221; p. 877.
- Picture-film renovator, Motion-. B. H. Greene. No. 1,156,994; Oct. 19; Gaz. vol. 219; p. 637.
- Picture films, Apparatus for printing positive motion-. H. O. Carleton and E. W. Nelson. No. 1,152,599; Sept. 7; Gaz. vol. 218; p. 81.
- Picture films, Machine for cutting and pasting moving-. C. J. Lang. No. 1,146,003; July 13; Gaz. vol. 216; p. 380.
- Picture films, Method of and apparatus for making motion-. F. M. Faber. No. 1,143,521; June 15; Gaz. vol. 215; p. 928.
- Picture films, Method of and apparatus for making motion-. F. M. Faber. No. 1,143,522; June 15; Gaz. vol. 215; p. 928.
- Picture films, Restorative for blemished moving-. F. W. Hochstetter. No. 1,139,679; May 18; Gaz. vol. 214; p. 764.
- Picture films, Restorative for blemished moving-. F. W. Hochstetter. No. 1,139,680; May 18; Gaz. vol. 214; p. 764.
- Picture films, Restorative for blemished moving-. F. W. Hochstetter. No. 1,139,681; May 18; Gaz. vol. 214; p. 764.
- Picture-frame. M. Loewenthal. No. 1,132,366; Mar. 16; Gaz. vol. 212; p. 956.
- Picture-frame. H. Watts. No. 1,157,915; Oct. 26; Gaz. vol. 219; p. 1023.
- Picture-frame support. C. P. Heitkam. No. 1,124,898; Jan. 12; Gaz. vol. 210; p. 640.
- Picture-hanger. L. M. Hook. No. 1,149,141; Aug. 3; Gaz. vol. 217; p. 220.
- Picture-hanger. F. R. Nice. No. 1,163,445; Dec. 7; Gaz. vol. 221; p. 249.
- Picture-hanger. J. N. Rickles. No. 1,154,887; Sept. 28; Gaz. vol. 218; p. 981.
- Picture-hanger. N. L. Tuck. No. 1,161,268; Nov. 23; Gaz. vol. 220; p. 1140.
- Picture-hanger. J. L. Wolke. No. 1,133,209; Mar. 23; Gaz. vol. 212; p. 1312.
- Picture-machine appliance. R. J. Lacey and E. Gaughran. No. 1,127,647; Feb. 9; Gaz. vol. 211; p. 382.
- Picture-machine attachment, Moving-. A. H. F. Kurre. No. 1,129,693; Feb. 23; Gaz. vol. 211; p. 1182.
- Picture machine, Composite-. W. W. Newcomb. No. 1,133,311; Mar. 30; Gaz. vol. 212; p. 1383.
- Picture machine, Convertible moving-. F. W. Hochstetter. No. 1,133,378; Mar. 30; Gaz. vol. 212; p. 1407.
- Picture machine, Motion-. R. Head. No. 1,134,611; Apr. 6; Gaz. vol. 213; p. 192.
- Picture machine, Motion-. O. Schwimmer. No. 1,156,824; Oct. 12; Gaz. vol. 219; p. 547.
- Picture machine, Moving-. G. W. Bingham. No. 1,123,665; Jan. 5; Gaz. vol. 210; p. 160.
- Picture machine, Moving-. G. W. Bingham. No. 1,129,328; Feb. 23; Gaz. vol. 211; p. 1056.
- Picture machine, Moving-. G. W. Bingham. No. 1,134,664; Apr. 6; Gaz. vol. 213; p. 212.
- Picture machine, Moving-. G. W. Bingham. No. 1,156,457; Oct. 12; Gaz. vol. 219; p. 419.
- Picture machine, Moving-. B. A. Brigden. No. 1,143,607; June 22; Gaz. vol. 215; p. 984.
- Picture machine, Moving-. C. A. Butler. No. 1,152,288; Aug. 31; Gaz. vol. 217; p. 1600.
- Picture machine, Moving-. M. G. Delaney. No. 1,144,696; June 29; Gaz. vol. 215; p. 1388.
- Picture machine, Moving-. T. P. Hall. No. 1,156,596; Oct. 12; Gaz. vol. 219; p. 467.
- Picture machine, Moving-. E. H. Sperberg. No. 1,141,588; June 1; Gaz. vol. 215; p. 179.
- Picture machine, Moving-. C. A. Storey. No. 1,129,754; Feb. 23; Gaz. vol. 211; p. 1201.
- Picture machine, Moving-. E. J. Swedlund. No. 1,124,971; Jan. 12; Gaz. vol. 210; p. 666.
- Picture machine, Moving-. E. M. Wooden. No. 1,123,456; Jan. 5; Gaz. vol. 210; p. 89.
- Picture machine, Multicolor-moving-. B. A. Brigden. No. 1,143,608; June 22; Gaz. vol. 215; p. 984.
- Picture-machine reel, Moving-. F. D. Sears and A. O. Sodergren. No. 1,137,912; May 4; Gaz. vol. 214; p. 66.
- Picture machine, Registering device for a moving-. E. Schneider. No. 1,156,934; Oct. 19; Gaz. vol. 219; p. 616.
- Picture-machine shutter, Moving-. J. A. Cameron. No. 1,151,760; Aug. 31; Gaz. vol. 217; p. 1417.
- Picture machines, Device for automatically controlling moving-. B. Garros. No. 1,138,744; May 11; Gaz. vol. 214; p. 397.
- Picture machines, Film-fire-prevention shutter for motion-. J. T. Wells. No. 1,154,952; Sept. 28; Gaz. vol. 218; p. 1004.
- Picture machines, Film-guard for the film-winding mechanism for moving-. G. J. Carroll and J. Merkel. No. 1,131,822; Mar. 16; Gaz. vol. 212; p. 759.
- Picture machines, Film-guide for moving-. J. W. Early. No. 1,129,341; Feb. 23; Gaz. vol. 211; p. 1061.
- Picture machines, Framing-up device for motion-. J. T. Wells. No. 1,165,147; Dec. 21; Gaz. vol. 221; p. 931.
- Picture machines, Intermittent driving mechanism for motion-. N. Power. No. 1,129,121; Feb. 23; Gaz. vol. 211; p. 985.
- Picture machines, Intermittent movement for motion-. J. G. Clemens. No. 1,162,037; Nov. 30; Gaz. vol. 220; p. 1454.
- Picture-machines, Machine for renovating films for. J. W. Schab. No. 1,162,812; Dec. 7; Gaz. vol. 221; p. 29.
- Picture machines, Projecting apparatus for motion-. S. McAuley. No. 1,133,869; Mar. 30; Gaz. vol. 212; p. 1585.
- Picture machines, Reel for moving-. E. M. Wooden. No. 1,130,126; Mar. 2; Gaz. vol. 212; p. 99.
- Picture machines, Safety apparatus for moving-. A. D. Standford. No. 1,126,902; Feb. 2; Gaz. vol. 211; p. 83.
- Picture machines, Safety device for moving-. E. M. Wooden. No. 1,149,609; Aug. 10; Gaz. vol. 217; p. 504.
- Picture machines, Safety-shutter for motion-. F. R. Klink. No. 1,142,103; June 8; Gaz. vol. 215; p. 395.
- Picture machines, Shutter for motion-. F. A. Berg. No. 1,160,824; Nov. 16; Gaz. vol. 220; p. 936.
- Picture machines, Shutter for moving-. F. W. Hochstetter. No. 1,137,320; Apr. 27; Gaz. vol. 213; p. 1270.
- Picture machines, Speed-adjuster for motion-. W. P. Kubit and C. Schmidborn. No. 1,128,460; Feb. 16; Gaz. vol. 211; p. 718.
- Picture machines, Stereopticon-dissolver for moving-. J. C. Buttner and F. J. Merklein. No. 1,144,108; June 22; Gaz. vol. 215; p. 1158.
- Picture machines, Take-up sprocket for motion-. C. R. Beck. No. 1,125,045; Jan. 19; Gaz. vol. 210; p. 727.
- Picture printing, Device for motion-. A. Wolfsohn. No. 1,136,194; Apr. 20; Gaz. vol. 213; p. 829.
- Picture-projecting apparatus. C. F. Jenkins. No. 1,153,163; Sept. 7; Gaz. vol. 218; p. 281.
- Picture-projecting apparatus, Guard for the booths of. A. Werner and R. S. Denniss. No. 1,139,245; May 11; Gaz. vol. 214; p. 573.
- Picture-projecting apparatus, Lower-loop retainer for motion-. F. L. Wright. No. 1,152,384; Aug. 31; Gaz. vol. 217; p. 1635.
- Picture-projecting device. M. M. Gillam. No. 1,164,937; Dec. 21; Gaz. vol. 221; p. 856.
- Picture-projecting machines, Shutter apparatus for motion-. B. H. Caldwell. No. 1,160,495; Nov. 16; Gaz. vol. 220; p. 818.
- Picture-projection apparatus, Lamp-house for. A. D. Robinson and A. P. Boller, Jr. No. 1,160,764; Nov. 16; Gaz. vol. 220; p. 916.
- Picture-projection screen, Translucent. J. F. R. Troeger. No. 1,151,502; Aug. 24; Gaz. vol. 217; p. 1282.
- Picture projector, Motion-. R. F. Page. No. 1,159,791; Nov. 9; Gaz. vol. 220; p. 518.
- Picture projectors, Sprocket-wheel for motion-. A. A. Reising. No. 1,163,557; Dec. 7; Gaz. vol. 221; p. 287.
- Picture screen and producing the same, Moving-. J. B. Flogerzi. No. 1,152,620; Sept. 7; Gaz. vol. 218; p. 88.
- Picture screen, Moving-. J. H. Genter. No. 1,128,867; Feb. 16; Gaz. vol. 211; p. 858.
- Picture screens, Making moving-. H. Pannill. No. 1,149,940; Aug. 10; Gaz. vol. 217; p. 624.
- Picture-shipping case. W. B. P. Closson. No. 1,149,498; Aug. 10; Gaz. vol. 217; p. 462.

- Picture, Stereoscopic. W. Hess. No. 1,128,979; Feb. 16; Gaz. vol. 211; p. 900.
- Picture-support, Wall. S. Utsurogi. No. 1,151,425; Aug. 24; Gaz. vol. 217; p. 1255.
- Picture theaters, Electrically-controlled system for moving-. J. H. Hirschberg. No. 1,160,714; Nov. 16; Gaz. vol. 220; p. 899.
- Picture, Transformation-. J. B. Thomas. No. 1,165,466; Dec. 28; Gaz. vol. 221; p. 1079.
- Pictures and mirrors, Frame for. J. Hochendoner. No. 1,126,468; Jan. 26; Gaz. vol. 210; p. 1269.
- Pictures and reproducing sound, Means for synchronously displaying cinematographic. L. Gaumont. No. 1,144,339; June 22; Gaz. vol. 215; p. 1239.
- Pictures and sound-records, Method of and apparatus for synchronously making motion-. D. O. Royster. No. 1,164,401; Dec. 14; Gaz. vol. 221; p. 629.
- Pictures and the like, Protective housing for. B. J. O'Quinn. No. 1,144,913; June 29; Gaz. vol. 215; p. 1463.
- Pictures in colors, Taking and projecting. L. C. Van Riper. No. 1,130,221; Mar. 2; Gaz. vol. 212; p. 132.
- Pictures in relief, Apparatus for showing. C. E. R. Schneider. No. 1,124,665; Jan. 12; Gaz. vol. 210; p. 558.
- Pictures, Kodak attachment for taking motion-. J. E. Welch. No. 1,164,321; Dec. 14; Gaz. vol. 221; p. 600.
- Pictures, Machine for taking, printing, and projecting motion-. J. T. Wells. No. 1,165,146; Dec. 21; Gaz. vol. 221; p. 931.
- Pictures, Means for taking and projecting moving. T. A. Killman. No. 1,136,236; Apr. 20; Gaz. vol. 213; p. 844.
- Pictures, Method of and apparatus for producing and exhibiting composite. J. E. Garrette. No. 1,156,896; Oct. 19; Gaz. vol. 219; p. 602.
- Pictures, Methods of and articles for producing moving. J. R. Bray. No. 1,159,740; Nov. 9; Gaz. vol. 220; p. 499.
- Pictures on films, Composition of matter for restoring the. F. W. Hochstetter. No. 1,139,682; May 18; Gaz. vol. 214; p. 764.
- Pictures on films, Composition of matter for restoring the. F. W. Hochstetter. No. 1,139,683; May 18; Gaz. vol. 214; p. 764.
- Pictures on films, Composition of matter for restoring the. F. W. Hochstetter. No. 1,149,443; Aug. 10; Gaz. vol. 217; p. 444.
- Pictures, Optical device for viewing moving. H. F. Stowell. No. 1,141,432; June 1; Gaz. vol. 215; p. 125.
- Pictures, Portable apparatus for projecting stationary or animated. C. Dupuis. No. 1,137,958; May 4; Gaz. vol. 214; p. 83.
- Pictures, Process of and apparatus for producing moving. E. Hurd. No. 1,143,542; June 15; Gaz. vol. 215; p. 936.
- Pictures, Reproducing. H. Peters. No. 1,143,860; June 22; Gaz. vol. 215; p. 1070.
- Pictures, Reproduction of animated. W. Friese-Greene. No. 1,155,056; Sept. 28; Gaz. vol. 218; p. 1039.
- Piers, quays, and like structures, Process and apparatus for having artificial blocks cast or settled on spot to build. E. Gallo. No. 1,137,601; Apr. 27; Gaz. vol. 213; p. 1367.
- Pigment. F. Orth. No. 1,161,790; Nov. 23; Gaz. vol. 220; p. 1322.
- Pigment and making same. R. Just and F. Eckhard. No. 1,150,863; Aug. 24; Gaz. vol. 217; p. 1067.
- Pigment and making same, Inalterable white. R. B. Llopert. No. 1,139,427; May 11; Gaz. vol. 214; p. 638.
- Pigment and producing same, Composite titanio-oxid. L. E. Barton. No. 1,155,462; Oct. 5; Gaz. vol. 219; p. 48.
- Pigment-grinding machine. M. D. Duffy and B. P. Costello. No. 1,154,004; Sept. 21; Gaz. vol. 218; p. 651.
- Pigment, Making a white. H. W. Kessler. No. 1,131,144; Mar. 9; Gaz. vol. 212; p. 486.
- Pigments, Making. C. D. Holley. No. 1,123,743; Jan. 5; Gaz. vol. 210; p. 186.
- Pigments, Manufacturing calcium sulfate-zinc sulfid. J. L. Carpenter. No. 1,146,690; July 13; Gaz. vol. 216; p. 621.
- Pigtail connection. W. Shaw. No. 1,147,451; July 20; Gaz. vol. 216; p. 907.
- Pile construction. J. W. Ripley. No. 1,124,955; Jan. 12; Gaz. vol. 210; p. 660.
- Pile-cutting mechanism. A. F. McCollum. No. 1,161,709; Nov. 23; Gaz. vol. 220; p. 1293.
- Pile-cutting mechanism. A. F. McCollum. No. 1,161,710; Nov. 23; Gaz. vol. 220; p. 1293.
- Pile-driver. H. M. Ferguson. No. 1,132,321; Mar. 16; Gaz. vol. 212; p. 941.
- Pile-driving mechanism. J. Erickson. No. 1,131,048; Mar. 9; Gaz. vol. 212; p. 453.
- Pile fabric. A. W. Binz. No. 1,137,833; May 4; Gaz. vol. 214; p. 39.
- Pile fabric. A. W. Binz. No. 1,143,804; June 22; Gaz. vol. 215; p. 1050.
- Pile fabric. G. Crossland. No. 1,142,149; June 8; Gaz. vol. 215; p. 410.
- Pile fabric and making same. J. Krebbiel. No. 1,150,947; Aug. 24; Gaz. vol. 217; p. 1095.
- Pile fabric, Woven. G. Crossland. No. 1,139,495; May 18; Gaz. vol. 214; p. 698.
- Pile fabric, Woven. F. Hammer. No. 1,143,192; June 15; Gaz. vol. 215; p. 816.
- Pile fabrics, Manufacture of figured. O. Kohorn. No. 1,156,485; Oct. 12; Gaz. vol. 219; p. 430.
- Pile form, Tapered-. J. Stewart. No. 1,157,443; Oct. 19; Gaz. vol. 219; p. 797.
- Pile, Jointed. C. L. Bailey. No. 1,138,924; May 11; Gaz. vol. 214; p. 460.
- Pile or column construction. H. W. Schlueter. No. 1,165,134; Dec. 21; Gaz. vol. 221; p. 926.
- Pile-protecting device. C. F. Lockwood. No. 1,134,881; Apr. 6; Gaz. vol. 213; p. 286.
- Pile-shells, Machine for manufacturing spirally-reinforced. W. J. Wainwright and H. R. Smith. No. 1,155,389; Oct. 5; Gaz. vol. 219; p. 22.
- Pile-wire. A. F. McCollum. No. 1,130,617; Mar. 2; Gaz. vol. 212; p. 272.
- Pile-wire. A. F. McCollum. No. 1,130,618; Mar. 2; Gaz. vol. 212; p. 272.
- Pile-wire. R. A. Stevens. No. 1,125,410; Jan. 19; Gaz. vol. 210; p. 860.
- Piles, Anchoring steel. J. B. Goldsborough. No. 1,164,085; Dec. 14; Gaz. vol. 221; p. 519.
- Piles, Apparatus for erecting composite. E. D. Watt. No. 1,135,086; Apr. 13; Gaz. vol. 213; p. 403.
- Piles, Driving-hood for. R. H. Annison. No. 1,140,558; May 25; Gaz. vol. 214; p. 1108.
- Piles, Impregnating. H. G. Jennison. No. 1,146,501; July 13; Gaz. vol. 216; p. 557.
- Piles, Making. J. Stewart. No. 1,157,442; Oct. 19; Gaz. vol. 219; p. 797.
- Piles, Making composite. F. Shuman. No. 1,156,186; Oct. 12; Gaz. vol. 219; p. 324.
- Piles, Mold for concreting. G. S. Chapman. No. 1,138,454; May 4; Gaz. vol. 214; p. 258.
- Piles, Placing and driving concrete. J. Stewart. No. 1,157,444; Oct. 19; Gaz. vol. 219; p. 798.
- Piling, Guide for sheet-metal. C. S. Friddle. No. 1,135,448; Apr. 13; Gaz. vol. 213; p. 527.
- Pillow-holder. G. A. Elliott. No. 1,140,583; May 25; Gaz. vol. 214; p. 1115.
- Pillow-holder. L. A. Garren. No. 1,144,187; June 22; Gaz. vol. 215; p. 1186.
- Pilot-beam. C. T. Westlake. No. 1,127,331; Feb. 2; Gaz. vol. 211; p. 232.
- Pilot-burner. W. H. Winslow. No. 1,165,373; Dec. 21; Gaz. vol. 221; p. 1008.
- Pilot-burner for gas-ranges. A. B. Bell. No. 1,161,438; Nov. 23; Gaz. vol. 220; p. 1201.
- Pin: See—
- | | |
|---------------------|-------------------|
| Bowling-pin. | Hair-pin. |
| Building-block pin. | Hat-pin. |
| Center-pin. | Insulator-pin. |
| Clothes-pin. | Rolling-pin. |
| Cotter-pin. | Safety-pin. |
| Cross-head pin. | Self-locking pin. |
| Dowel-pin. | Ticket-pin. |
| Emblematic pin. | Wrist-pin. |
- Pin. E. B. Peterson. No. 1,165,706; Dec. 28; Gaz. vol. 221; p. 1164.
- Pin. S. Weatherley. No. 1,142,547; June 8; Gaz. vol. 215; p. 550.
- Pin-annealing machine. W. K. Jamison and J. Christian. No. 1,149,917; Aug. 10; Gaz. vol. 217; p. 616.
- Pin-back. B. B. Lewis. No. 1,163,350; Dec. 7; Gaz. vol. 221; p. 216.
- Pin-catch. M. L. Noxon. No. 1,134,898; Apr. 6; Gaz. vol. 213; p. 292.
- Pin-coupling, Automatic. C. L. Howard. No. 1,127,894; Feb. 9; Gaz. vol. 211; p. 473.
- Pin extractor and drawer. L. A. Benecke. No. 1,128,838; Feb. 16; Gaz. vol. 211; p. 849.
- Pin-fastener. J. Lee. No. 1,159,053; Nov. 2; Gaz. vol. 220; p. 222.
- Pin-fastener. T. C. Spelling. No. 1,133,247; Mar. 23; Gaz. vol. 212; p. 1324.
- Pin-fastener. M. E. Towler. No. 1,155,691; Oct. 5; Gaz. vol. 219; p. 128.
- Pin for brooches and other articles. J. A. Doran. No. 1,160,149; Nov. 16; Gaz. vol. 220; p. 698.
- Pin-joint. J. A. Doran. No. 1,156,763; Oct. 12; Gaz. vol. 219; p. 526.
- Pin-point catch. A. L. Carnell. No. 1,144,638; June 29; Gaz. vol. 215; p. 1367.
- Pin-pointing machine. F. E. Vandercook. No. 1,150,157; Aug. 17; Gaz. vol. 217; p. 763.
- Pin-protector. T. Hayashi. No. 1,159,022; Nov. 2; Gaz. vol. 220; p. 211.
- Pin-receiving device. E. D. Conklin. No. 1,153,175; Sept. 7; Gaz. vol. 218; p. 285.
- Pin-retainer. J. H. Hammer. No. 1,145,193; July 6; Gaz. vol. 216; p. 76.
- Pin-retainer. J. Forsheim and J. Konigsberg. No. 1,153,615; Sept. 14; Gaz. vol. 218; p. 482.
- Pin-setter. H. J. Anderson. No. 1,144,091; June 22; Gaz. vol. 215; p. 1151.
- Pin-setter. H. J. Anderson. No. 1,149,318; Aug. 10; Gaz. vol. 217; p. 400.
- Pin-tag. C. A. Conrad. No. 1,127,862; Feb. 9; Gaz. vol. 211; p. 462.

Alphabetical list of inventions—Continued.

- Pin-tumbler lock. C. F. Kohlberger. No. 1,135,027; Apr. 13; Gaz. vol. 213; p. 382.
- Pins, Automatic machinery for making split. I. J. Young. No. 1,151,645; Aug. 31; Gaz. vol. 217; p. 1379.
- Pincushion. M. H. Slater. No. 1,162,813; Dec. 7; Gaz. vol. 221; p. 29.
- Pincers. L. M. Brown. No. 1,144,294; June 22; Gaz. vol. 215; p. 1224.
- Pincers. I. Pfeiffer, Jr. No. 1,134,980; Apr. 6; Gaz. vol. 213; p. 321.
- Pincers. J. A. Stubbjare. No. 1,144,738; June 29; Gaz. vol. 215; p. 1404.
- Pincers, Lasting-. W. and A. W. Huck. No. 1,151,789; Aug. 31; Gaz. vol. 217; p. 1428.
- Pineapple-peel, Machine for removing the pulp from previously-separated. J. A. Olsen. No. 1,138,143; May 4; Gaz. vol. 214; p. 150.
- Pinion device operating mechanism. D. C. Boyd. No. 1,147,366; July 20; Gaz. vol. 216; p. 876.
- Pinion-housing. A. H. Helander, W. Eaton, and J. Z. Collier. No. 1,141,544; June 1; Gaz. vol. 215; p. 163.
- Pinion-puller. G. E. Austin and F. Lachance. No. 1,150,729; Aug. 17; Gaz. vol. 217; p. 961.
- Pintle attachment for machine elements. J. Gilson, Sr. No. 1,162,477; Nov. 30; Gaz. vol. 220; p. 1606.
- Pipe-See-
- | | |
|------------------------|------------------------|
| Collapsible pipe. | Pitch-pipe. |
| Concrete pipe. | Sand-pipe. |
| Conveyer-pipe. | Sewer-pipe. |
| Corrugated pipe. | Smoke-conducting pipe. |
| Cracker-pipe. | Smoker's pipe. |
| Culvert-pipe. | Smoking-pipe. |
| Furnace-pipe. | Stand-pipe. |
| Irrigation-pipe. | Tobacco-pipe. |
| Locomotive steam-pipe. | Vent-pipe. |
| Metal pipe. | Welded pipe. |
| Organ-pipe. | |
- Pipe. A. L. Baer. No. 1,148,494; Aug. 3; Gaz. vol. 217; p. 3.
- Pipe. E. J. Sheehan. No. 1,134,917; Apr. 6; Gaz. vol. 213; p. 297.
- Pipe and cable hanger. J. B. Heiser. No. 1,144,593; June 29; Gaz. vol. 215; p. 1352.
- Pipe and cable hanger. D. B. McIntyre. No. 1,137,069; Apr. 27; Gaz. vol. 213; p. 1178.
- Pipe and car coupling mechanism, Combined automatic train-. G. Westinghouse. No. 1,129,323; Feb. 23; Gaz. vol. 211; p. 1055.
- Pipe and iron cutter. M. L. Gilmour. No. 1,130,395; Mar. 2; Gaz. vol. 212; p. 193.
- Pipe and nut wrench. G. A. Parmenter. No. 1,155,955; Oct. 5; Gaz. vol. 219; p. 219.
- Pipe and rod clamp. J. H. Baxter. No. 1,137,693; Apr. 27; Gaz. vol. 213; p. 1396.
- Pipe and rod fitting. J. Bridges. No. 1,123,839; Jan. 5; Gaz. vol. 210; p. 218.
- Pipe and rod wrench. J. M. Rutledge. No. 1,123,598; Jan. 5; Gaz. vol. 210; p. 137.
- Pipe and tube cleaner. J. W. Bell. No. 1,133,607; Mar. 30; Gaz. vol. 212; p. 1490.
- Pipe and valve-actuating mechanism, Combined automatic coupling for a train-. C. Larsen. No. 1,144,482; June 29; Gaz. vol. 215; p. 1316.
- Pipe automatic coupling, Train-. W. R. Sweet. No. 1,150,717; Aug. 17; Gaz. vol. 217; p. 957.
- Pipe, bars, &c., Machine for automatically cutting off. L. B. Curtis. No. 1,160,387; Nov. 16; Gaz. vol. 220; p. 779.
- Pipe-bend-making die. C. H. True and N. T. McKee. No. 1,153,109; Sept. 28; Gaz. vol. 218; p. 1060.
- Pipe-bends. Die for U-shaped. N. C. Frandsen. No. 1,164,638; Dec. 21; Gaz. vol. 221; p. 751.
- Pipe-bends, Making. C. H. True and N. T. McKee. No. 1,155,110; Sept. 28; Gaz. vol. 218; p. 1060.
- Pipe-bends, Making U-shaped. N. C. Frandsen. No. 1,133,017; Mar. 23; Gaz. vol. 212; p. 1244.
- Pipe-bends, Making U-shaped. J. Kindervater. No. 1,137,267; Apr. 27; Gaz. vol. 213; p. 1252.
- Pipe-bends, Making U-shaped. J. Kindervater. No. 1,138,227; May 4; Gaz. vol. 214; p. 176.
- Pipe-bends, Making U-shaped. J. Kindervater. No. 1,138,228; May 4; Gaz. vol. 214; p. 176.
- Pipe-bender. O. Caron and G. Surprenant. No. 1,155,042; Sept. 28; Gaz. vol. 218; p. 1033.
- Pipe-bending device. A. H. Meier. No. 1,136,252; Apr. 20; Gaz. vol. 213; p. 850.
- Pipe-bending machine. W. O. Powell. No. 1,136,364; Apr. 20; Gaz. vol. 213; p. 890.
- Pipe-bowls, Carbonizing. W. A. Paul. No. 1,156,171; Oct. 12; Gaz. vol. 219; p. 320.
- Pipe-calking machine. C. J. Gefvert. No. 1,129,191; Feb. 23; Gaz. vol. 211; p. 1009.
- Pipe cap, Water-. H. Gibbs. No. 1,134,605; Apr. 6; Gaz. vol. 213; p. 190.
- Pipe-casing. A. Rogers. No. 1,131,961; Mar. 16; Gaz. vol. 212; p. 808.
- Pipe, cigar or cigarette holder. C. A. Turner. No. 1,142,998; June 15; Gaz. vol. 215; p. 746.
- Pipe-clamp. M. Brown. No. 1,153,024; Sept. 7; Gaz. vol. 218; p. 236.
- Pipe-clamp. A. H. Caldwell. No. 1,142,235; June 8; Gaz. vol. 215; p. 441.
- Pipe-clamp. V. H. Derrick. No. 1,149,557; Aug. 10; Gaz. vol. 217; p. 484.
- Pipe-clamp, Automatic. J. E. Despain. No. 1,149,034; Aug. 3; Gaz. vol. 217; p. 194.
- Pipe-clamping device. R. A. Lincoln. No. 1,150,870; Aug. 24; Gaz. vol. 217; p. 1069.
- Pipe-cleaner. A. C. Eek. No. 1,144,759; June 29; Gaz. vol. 215; p. 1410.
- Pipe cleaner, Sewer-. F. E. Groszold. No. 1,151,357; Aug. 24; Gaz. vol. 217; p. 1233.
- Pipe-cleaner tool. H. A. Bergmann. No. 1,145,966; July 13; Gaz. vol. 216; p. 366.
- Pipe cleaner, Waste-. O. E. Townsend. No. 1,164,892; Dec. 21; Gaz. vol. 221; p. 839.
- Pipe-cleaning device. J. L. Richter. No. 1,149,164; Aug. 3; Gaz. vol. 217; p. 238.
- Pipe-cleaning method and apparatus. J. J. McCarty. No. 1,156,417; Oct. 12; Gaz. vol. 219; p. 406.
- Pipe-cleaning mixture or compound. H. Anhaltzer. No. 1,129,056; Feb. 23; Gaz. vol. 211; p. 962.
- Pipe-closure. J. B. Bart. No. 1,148,567; Aug. 3; Gaz. vol. 217; p. 30.
- Pipe-conduit, Insulating. W. B. Gray. No. 1,159,930; Nov. 9; Gaz. vol. 220; p. 568.
- Pipe connection. J. T. Forgy. No. 1,162,595; Nov. 30; Gaz. vol. 220; p. 1645.
- Pipe connection. T. J. Scott. No. 1,147,755; July 27; Gaz. vol. 216; p. 1040.
- Pipe connection, Adjustable. H. Mueller. No. 1,163,679; Dec. 14; Gaz. vol. 221; p. 374.
- Pipe connection, Flexible. W. A. Dodge. No. 1,138,281; May 4; Gaz. vol. 214; p. 196.
- Pipe connection, Flexible. W. A. Dodge. No. 1,138,282; May 4; Gaz. vol. 214; p. 196.
- Pipe connection, Soil-. J. Miller, Sr. No. 1,134,400; Apr. 6; Gaz. vol. 213; p. 115.
- Pipe connection, Train-. J. C. Martin, Jr. No. 1,129,308; Feb. 23; Gaz. vol. 211; p. 1050.
- Pipe-connector. J. L. Parkes. No. 1,135,135; Apr. 13; Gaz. vol. 213; p. 420.
- Pipe-coupling. E. J. Bouchard. No. 1,137,113; Apr. 27; Gaz. vol. 213; p. 1194.
- Pipe-coupling. C. A. Dies. No. 1,137,955; May 4; Gaz. vol. 214; p. 82.
- Pipe-coupling. J. N. Goodall. No. 1,132,086; Mar. 16; Gaz. vol. 212; p. 853.
- Pipe-coupling. J. N. Goodall. No. 1,139,671; May 18; Gaz. vol. 214; p. 760.
- Pipe-coupling. W. H. Haller. No. 1,135,893; Apr. 13; Gaz. vol. 213; p. 684.
- Pipe-coupling. A. R. Jenkins. No. 1,156,145; Oct. 12; Gaz. vol. 219; p. 312.
- Pipe-coupling. J. Kenny. No. 1,148,324; July 27; Gaz. vol. 216; p. 1243.
- Pipe-coupling. W. E. Oyster and S. Tempinski. No. 1,154,540; Sept. 21; Gaz. vol. 218; p. 834.
- Pipe-coupling. J. T. Pedersen. No. 1,163,364; Dec. 7; Gaz. vol. 221; p. 221.
- Pipe-coupling. W. S. Pierce. No. 1,153,824; Sept. 14; Gaz. vol. 218; p. 555.
- Pipe-coupling. W. F. Potts. No. 1,147,889; July 27; Gaz. vol. 216; p. 1086.
- Pipe-coupling. R. E. Robertson. No. 1,154,937; Sept. 28; Gaz. vol. 218; p. 999.
- Pipe-coupling. F. N. Speller. No. 1,141,151; June 1; Gaz. vol. 215; p. 21.
- Pipe-coupling. W. F. Staggers, Jr. No. 1,163,277; Dec. 7; Gaz. vol. 221; p. 189.
- Pipe-coupling. J. D. Sykes. No. 1,129,615; Feb. 23; Gaz. vol. 211; p. 1159.
- Pipe coupling, Automatic brake-. D. Dorso. No. 1,132,916; Mar. 23; Gaz. vol. 212; p. 1205.
- Pipe coupling, Automatic train-. R. E. Adreon. No. 1,130,694; Mar. 9; Gaz. vol. 212; p. 333.
- Pipe coupling, Automatic train-. M. A. Barber. No. 1,161,372; Nov. 23; Gaz. vol. 220; p. 1178.
- Pipe coupling, Automatic train-. M. A. Barber. No. 1,161,373; Nov. 23; Gaz. vol. 220; p. 1178.
- Pipe coupling, Automatic train-. V. S. Durbin. No. 1,138,359; May 4; Gaz. vol. 214; p. 225.
- Pipe coupling, Automatic train-. F. H. Foster. No. 1,151,939; Aug. 31; Gaz. vol. 217; p. 1479.
- Pipe coupling, Automatic train-. W. C. Miller. No. 1,143,984; June 22; Gaz. vol. 215; p. 1112.
- Pipe coupling, Automatic train-. A. L. Moler. No. 1,161,403; Nov. 23; Gaz. vol. 220; p. 1189.
- Pipe-coupling device. J. W. Headly. No. 1,160,284; Nov. 16; Gaz. vol. 220; p. 744.
- Pipe-coupling device for railway and tram cars. L. Boirault. No. 1,127,170; Feb. 2; Gaz. vol. 211; p. 178.
- Pipe-coupling device for railway and tram cars. L. Boirault. No. 1,155,876; Oct. 5; Gaz. vol. 219; p. 192.
- Pipe-coupling for fluid-pressure coupler-heads. L. D. Woodruff. No. 1,123,972; Jan. 5; Gaz. vol. 210; p. 262.
- Pipe coupling, Insulating-. T. E. Murray. No. 1,165,114; Dec. 21; Gaz. vol. 221; p. 919.
- Pipe-coupling, Making middle rings for. W. J. Clark and F. Ryman. No. 1,132,828; Mar. 23; Gaz. vol. 212; p. 1175.

- Pipe-coupling, Repair. J. B. Hagger. No. 1,145,582; July 6; Gaz. vol. 216; p. 211.
- Pipe coupling, Train. J. Blackburn. No. 1,158,970; Nov. 2; Gaz. vol. 220; p. 194.
- Pipe couplings, Train. G. L. Bonham. No. 1,136,093; Apr. 20; Gaz. vol. 213; p. 794.
- Pipe coupling, Train. G. E. Kelly and G. F. Royer. No. 1,137,406; Apr. 27; Gaz. vol. 213; p. 1302.
- Pipe coupling, Train. H. S. Kimmel. No. 1,154,028; Sept. 21; Gaz. vol. 218; p. 660.
- Pipe coupling, Train. J. Thiem. No. 1,156,191; Oct. 12; Gaz. vol. 219; p. 326.
- Pipe coupling, Train. E. H. Warren. No. 1,162,117; Nov. 30; Gaz. vol. 220; p. 1484.
- Pipe coupling, Train. W. C. White. No. 1,126,168; Jan. 26; Gaz. vol. 210; p. 1163.
- Pipe couplings, Protecting device for air-brake. J. M. Buzard, E. P. Cole, and F. H. Haslage. No. 1,154,481; Sept. 21; Gaz. vol. 218; p. 815.
- Pipe-covering. W. A. Macan. No. 1,134,475; Apr. 6; Gaz. vol. 213; p. 143.
- Pipe-covering. C. M. Stokes. No. 1,137,432; Apr. 27; Gaz. vol. 213; p. 1312.
- Pipe-covering machine. J. R. French. No. 1,151,096; Aug. 24; Gaz. vol. 217; p. 1144.
- Pipe-cutter. H. H. Eaton. No. 1,162,905; Dec. 7; Gaz. vol. 221; p. 59.
- Pipe-cutter. J. Grauer. No. 1,158,800; Nov. 2; Gaz. vol. 220; p. 137.
- Pipe-cutter. F. G. Koehler. No. 1,126,032; Jan. 26; Gaz. vol. 210; p. 1111.
- Pipe-cutter. I. W. Nonneman. No. 1,150,220; Aug. 17; Gaz. vol. 217; p. 785.
- Pipe-drifting machine. F. E. Henderson. No. 1,162,772; Dec. 7; Gaz. vol. 221; p. 14.
- Pipe-expander. K. J. Thorsby. No. 1,132,807; Mar. 23; Gaz. vol. 212; p. 1167.
- Pipe-fitting. J. W. Butts. No. 1,126,386; Jan. 26; Gaz. vol. 210; p. 1240.
- Pipe-fitting. G. J. Von Glahn. No. 1,137,556; Apr. 27; Gaz. vol. 213; p. 1353.
- Pipe-fitting for material-conveying lines or conduits. L. A. Griffin. No. 1,138,375; May 4; Gaz. vol. 214; p. 231.
- Pipe-forming machine. G. B. Cole and E. Duryce. No. 1,146,477; July 13; Gaz. vol. 216; p. 549.
- Pipe-forming machine. C. J. Holub. No. 1,160,606; Nov. 16; Gaz. vol. 220; p. 858.
- Pipe, Galvanizing. U. S. Armstrong. No. 1,159,820; Nov. 9; Gaz. vol. 220; p. 529.
- Pipe-grapple. A. Goostin. No. 1,144,590; June 29; Gaz. vol. 215; p. 1351.
- Pipe-hanger. W. M. Beers. No. 1,132,999; Mar. 23; Gaz. vol. 212; p. 1237.
- Pipe-hanger. H. G. Carlson. No. 1,144,296; June 22; Gaz. vol. 215; p. 1224.
- Pipe-hanger. L. A. Carpenter and R. Middleton. No. 1,158,633; Nov. 2; Gaz. vol. 220; p. 79.
- Pipe-hanger. A. J. Loopsinger. No. 1,134,395; Apr. 6; Gaz. vol. 213; p. 113.
- Pipe-hanger. C. S. McKinley. No. 1,156,241; Oct. 12; Gaz. vol. 219; p. 342.
- Pipe-hanger. I. F. Penniman. No. 1,124,648; Jan. 12; Gaz. vol. 210; p. 532.
- Pipe-hanger. G. C. Pyle. No. 1,131,867; Mar. 16; Gaz. vol. 212; p. 775.
- Pipe-hanger, Riser. H. Heide. No. 1,152,089; Aug. 31; Gaz. vol. 217; p. 1533.
- Pipe-holding device. F. B. Burns. No. 1,155,337; Oct. 5; Gaz. vol. 219; p. 4.
- Pipe hook, Conductor. C. W. Conner. No. 1,160,047; Nov. 9; Gaz. vol. 220; p. 607.
- Pipe, hose, shaft, &c., coupling. A. E. Hyland. No. 1,162,362; Nov. 30; Gaz. vol. 220; p. 1567.
- Pipe insulation, Reinforcement for. W. B. Gray. No. 1,153,159; Sept. 7; Gaz. vol. 218; p. 279.
- Pipe-jack. G. F. Voigt. No. 1,143,739; June 22; Gaz. vol. 215; p. 1028.
- Pipe-joint. E. Bahr. No. 1,134,092; Apr. 6; Gaz. vol. 213; p. 4.
- Pipe-joint. F. A. Brinker. No. 1,149,715; Aug. 10; Gaz. vol. 217; p. 542.
- Pipe-joint. C. Forth. No. 1,140,508; May 25; Gaz. vol. 214; p. 1090.
- Pipe-joint. C. Forth. No. 1,145,578; July 6; Gaz. vol. 216; p. 210.
- Pipe-joint. C. Forth. No. 1,154,984; Sept. 28; Gaz. vol. 218; p. 1014.
- Pipe-joint. C. Forth. No. 1,154,985; Sept. 28; Gaz. vol. 218; p. 1015.
- Pipe-joint. K. Mooring. No. 1,151,703; Aug. 31; Gaz. vol. 217; p. 1397.
- Pipe-joint. J. P. Putnam. No. 1,151,614; Aug. 31; Gaz. vol. 217; p. 1368.
- Pipe-joint. G. W. Robnett. No. 1,135,325; Apr. 13; Gaz. vol. 213; p. 484.
- Pipe-joint. T. J. Weston. No. 1,132,137; Mar. 16; Gaz. vol. 212; p. 872.
- Pipe-joint, Ball-and-socket. C. W. Beaufort. No. 1,158,071; May 4; Gaz. vol. 214; p. 123.
- Pipe-joint, Expandable. I. A. Kidd. No. 1,159,845; Nov. 9; Gaz. vol. 220; p. 538.
- Pipe-joint-wiping device. R. E. Higbee. No. 1,157,391; Oct. 19; Gaz. vol. 219; p. 779.
- Pipe-laying apparatus, Gravity-actuated. J. Perkins, Jr. No. 1,139,440; May 11; Gaz. vol. 214; p. 642.
- Pipe-laying machine. J. J. Mahoney and W. L. Norris. No. 1,143,844; June 22; Gaz. vol. 215; p. 1064.
- Pipe-leads or other metallic masses embedded in masonry, Apparatus for detecting. M. Jullie. No. 1,126,027; Jan. 26; Gaz. vol. 210; p. 1109.
- Pipe-lifter. J. F. Bogle. No. 1,154,687; Sept. 28; Gaz. vol. 218; p. 916.
- Pipe line for oil-stoves and other purposes. F. E. White. No. 1,157,484; Oct. 19; Gaz. vol. 219; p. 811.
- Pipe-line-repair device. J. Clark. No. 1,165,388; Dec. 28; Gaz. vol. 221; p. 1051.
- Pipe-lining. R. Stocker. No. 1,153,724; Sept. 14; Gaz. vol. 218; p. 521.
- Pipe-machine. A. A. Mosher. No. 1,151,704; Aug. 31; Gaz. vol. 217; p. 1397.
- Pipe-making machine. A. C. Tunison. No. 1,137,680; Apr. 27; Gaz. vol. 213; p. 1393.
- Pipe mold, Monolithic. F. W. Keller. No. 1,146,263; July 13; Gaz. vol. 216; p. 471.
- Pipe mold, Sewer. A. J. Boyle. No. 1,162,127; Nov. 30; Gaz. vol. 220; p. 1487.
- Pipe-molding machine. C. Westergard. No. 1,143,094; June 15; Gaz. vol. 215; p. 781.
- Pipe-necks, Making forged-steel. J. H. Taylor. No. 1,124,359; Jan. 12; Gaz. vol. 210; p. 447.
- Pipe or casing dent remover. L. F. Baash. No. 1,157,073; Oct. 19; Gaz. vol. 219; p. 665.
- Pipe-patching device. W. H. Crow. No. 1,156,890; Oct. 19; Gaz. vol. 219; p. 600.
- Pipe plug, Waste. A. G. Schmidt. No. 1,136,441; Apr. 20; Gaz. vol. 213; p. 918.
- Pipe protector, Vent. H. Robinett and C. W. Cody. No. 1,166,005; Dec. 28; Gaz. vol. 221; p. 1267.
- Pipe reaming and threading means. J. R. Long. No. 1,160,625; Nov. 16; Gaz. vol. 220; p. 865.
- Pipe-reaming machine. H. Hilleagass. No. 1,138,564; May 4; Gaz. vol. 214; p. 293.
- Pipe-repair sleeve. E. M. Coyne. No. 1,140,501; May 25; Gaz. vol. 214; p. 1088.
- Pipe-repairing device. A. Claiborne. No. 1,154,376; Sept. 21; Gaz. vol. 218; p. 781.
- Pipe saddle, High-pressure. D. U. Powell and J. W. Hardwick. No. 1,131,003; Mar. 9; Gaz. vol. 212; p. 438.
- Pipe-screwing device. F. G. Diefendorf. No. 1,150,178; Aug. 17; Gaz. vol. 217; p. 771.
- Pipe, shaft, &c., coupling, Structural. W. Loudon. No. 1,150,781; Aug. 17; Gaz. vol. 217; p. 979.
- Pipe-skelp-scraping apparatus. C. Fell. No. 1,142,950; June 15; Gaz. vol. 215; p. 730.
- Pipe stopper, Waste. E. G. Adams. No. 1,166,303; Dec. 28; Gaz. vol. 221; p. 1377.
- Pipe-support. W. B. Gray. No. 1,133,855; Mar. 30; Gaz. vol. 212; p. 1580.
- Pipe-swivel. J. V. Shaffer and J. H. Reedy. No. 1,129,815; Feb. 23; Gaz. vol. 211; p. 1223.
- Pipe-taps, Forming. L. Stockstrom. No. 1,146,664; July 13; Gaz. vol. 216; p. 612.
- Pipe-threader. E. S. Stack. No. 1,147,456; July 20; Gaz. vol. 216; p. 909.
- Pipe-threading die-stock. W. H. Juergens. No. 1,125,112; Jan. 19; Gaz. vol. 210; p. 750.
- Pipe-threading machine. J. J. Boax. No. 1,124,692; Jan. 12; Gaz. vol. 210; p. 567.
- Pipe-threading machine. G. W. La Voo. No. 1,126,792; Feb. 2; Gaz. vol. 211; p. 45.
- Pipe-threading machine. W. Offerman. No. 1,144,333; June 22; Gaz. vol. 215; p. 1237.
- Pipe-threading machine. D. C. Walter. No. 1,153,835; Sept. 14; Gaz. vol. 218; p. 559.
- Pipe-transferring apparatus. W. M. Neckerman. No. 1,126,833; Feb. 2; Gaz. vol. 211; p. 61.
- Pipe-trap plug, Waste. M. Belfry. No. 1,151,653; Aug. 31; Gaz. vol. 217; p. 1381.
- Pipe-union. H. J. Kast. No. 1,157,695; Oct. 26; Gaz. vol. 219; p. 947.
- Pipe-wrench. A. J. Aube. No. 1,134,499; Apr. 6; Gaz. vol. 213; p. 152.
- Pipe-wrench. L. D. Benedict. No. 1,143,350; June 15; Gaz. vol. 215; p. 871.
- Pipe-wrench. R. Y. Bovee. No. 1,125,946; Jan. 26; Gaz. vol. 210; p. 1080.
- Pipe-wrench. O. A. Carlson. No. 1,147,782; July 27; Gaz. vol. 216; p. 1048.
- Pipe-wrench. J. I. Corder. No. 1,145,560; July 6; Gaz. vol. 216; p. 204.
- Pipe-wrench. V. C. Haban. No. 1,163,233; Dec. 7; Gaz. vol. 221; p. 174.
- Pipe-wrench. W. M. Keck. No. 1,125,554; Jan. 19; Gaz. vol. 210; p. 908.
- Pipe-wrench. J. La Rock. No. 1,161,777; Nov. 23; Gaz. vol. 220; p. 1316.
- Pipe-wrench. G. V. Lewis. No. 1,128,467; Feb. 16; Gaz. vol. 211; p. 721.
- Pipe-wrench. G. C. Martin. No. 1,143,126; June 15; Gaz. vol. 215; p. 791.
- Pipe-wrench. A. E. Rice. No. 1,154,654; Sept. 28; Gaz. vol. 218; p. 904.

Alphabetical list of inventions—Continued.

- Pipe-wrench. R. W. Thayer. No. 1,150,078; Aug. 17; Gaz. vol. 217; p. 733.
- Pipe-wrench. L. Whitcomb. No. 1,156,260; Oct. 12; Gaz. vol. 219; p. 349.
- Pipe wrench and cutter. W. N. Bruce. No. 1,165,649; Dec. 28; Gaz. vol. 221; p. 1144.
- Pipe-wrench, Automatic. L. Knox. No. 1,153,694; Sept. 14; Gaz. vol. 218; p. 508.
- Pipe-wrench, Automatic-adjusting. L. Cavanna. No. 1,138,728; May 11; Gaz. vol. 214; p. 391.
- Pipe-wrench, Chain. G. Amborn. No. 1,146,119; July 13; Gaz. vol. 216; p. 420.
- Pipe-wrench, Chain. G. Amborn. No. 1,146,120; July 13; Gaz. vol. 216; p. 420.
- Pipe wrench, cutter, and die, Combined. E. A. Nelson. No. 1,138,395; May 4; Gaz. vol. 214; p. 238.
- Pipe-wrench, Double-acting. R. J. Cosseboom. No. 1,150,663; Aug. 17; Gaz. vol. 217; p. 939.
- Pipes and railway-ties, Composition for. F. A. Lobert. No. 1,124,045; Jan. 5; Gaz. vol. 210; p. 287.
- Pipes and mains, Means for use in calking lead joints in iron. C. Toon, Sr. No. 1,165,041; Dec. 21; Gaz. vol. 221; p. 892.
- Pipes and tubes, Method of and apparatus for finishing. J. W. Latshaw. No. 1,143,912; June 22; Gaz. vol. 215; p. 1087.
- Pipes, Antifreezing means for sprinkler-. L. W. Haskell. No. 1,134,380; Apr. 6; Gaz. vol. 213; p. 108.
- Pipes, Arrangement for trimming clay. J. K. Jensen. No. 1,132,851; Mar. 23; Gaz. vol. 212; p. 1183.
- Pipes, Clean-out fitting for. J. W. Power. No. 1,149,465; Aug. 10; Gaz. vol. 217; p. 451.
- Pipes, &c., Composition for covering steam-. B. J. Christie. No. 1,161,289; Nov. 23; Gaz. vol. 220; p. 1148.
- Pipes, Fender or cap for vertically-disposed drainage. J. W. Kempf. No. 1,128,888; Jan. 5; Gaz. vol. 210; p. 235.
- Pipes, Forming ribbed metal. A. M. Stewart. No. 1,123,616; Jan. 5; Gaz. vol. 210; p. 143.
- Pipes, Making butt-weld. F. N. Speller. No. 1,149,697; Aug. 10; Gaz. vol. 217; p. 537.
- Pipes, Means for thawing out water-. J. M. Auberg. No. 1,140,864; May 25; Gaz. vol. 214; p. 1213.
- Pipes, &c., Means to stop leaks in. G. Tippet. No. 1,146,670; July 13; Gaz. vol. 216; p. 613.
- Pipes, Method of and apparatus for laying submarine. T. A. Lewis. No. 1,152,326; Aug. 31; Gaz. vol. 217; p. 1613.
- Pipes, Method of and apparatus for removing scale from. G. Duncan. No. 1,162,756; Dec. 7; Gaz. vol. 221; p. 8.
- Pipes of corrosive sediments and the like, Device for cleaning. A. A. Schumacher. No. 1,135,058; Apr. 13; Gaz. vol. 213; p. 393.
- Pipes or conduit units, Protector for. P. McIlroy. No. 1,165,427; Dec. 28; Gaz. vol. 221; p. 1066.
- Pipes or pipe-coverings, Machine for double-winding. H. E. Aine. No. 1,146,912; July 20; Gaz. vol. 216; p. 717.
- Pipes or pipe-coverings, Machine for winding. H. E. Aine. No. 1,137,943; May 4; Gaz. vol. 214; p. 77.
- Pipes or pipe-joints, Device for testing. J. Elder. No. 1,133,714; Mar. 30; Gaz. vol. 212; p. 1530.
- Pipes or tubes, Machine for treating metal. E. T. Greenfield. No. 1,124,727; Jan. 12; Gaz. vol. 210; p. 579.
- Pipes, Preventing water-hammer in. W. Kieser. No. 1,156,532; Oct. 12; Gaz. vol. 219; p. 445.
- Pipes, Supporting and aligning device for casings for steam-. G. A. Richards. No. 1,128,513; Feb. 16; Gaz. vol. 211; p. 736.
- Piping system. F. Fleming. No. 1,160,703; Nov. 16; Gaz. vol. 220; p. 895.
- Pistol. L. Woods. No. 1,151,320; Aug. 24; Gaz. vol. 217; p. 1221.
- Pistol and other magazine small-arm, Automatic. W. J. Whiting. No. 1,143,470; June 15; Gaz. vol. 215; p. 912.
- Pistol, Automatic self-loading. H. H. Talbot. No. 1,137,173; Apr. 27; Gaz. vol. 213; p. 1216.
- Pistol, Liquid-. C. F. Lefever. No. 1,143,839; June 22; Gaz. vol. 215; p. 1063.
- Pistol, Top-spinning. A. M. Smith. No. 1,133,756; Mar. 30; Gaz. vol. 212; p. 1543.
- Piston. W. N. Avers, Jr. No. 1,147,915; July 27; Gaz. vol. 216; p. 1096.
- Piston. O. E. Barthel. No. 1,139,396; May 11; Gaz. vol. 214; p. 626.
- Piston. G. E. Franquist. No. 1,153,902; Sept. 21; Gaz. vol. 218; p. 617.
- Piston. H. W. Jacobs. No. 1,129,396; Feb. 23; Gaz. vol. 211; p. 1082.
- Piston. F. D. Kennedy. No. 1,142,177; June 8; Gaz. vol. 215; p. 420.
- Piston. C. E. Paul, Jr. No. 1,159,530; Nov. 9; Gaz. vol. 220; p. 422.
- Piston. P. L. Sample. No. 1,134,911; Apr. 6; Gaz. vol. 213; p. 295.
- Piston. C. B. Stebbins. No. 1,157,130; Oct. 19; Gaz. vol. 219; p. 685.
- Piston. J. T. Trumble. No. 1,163,710; Dec. 14; Gaz. vol. 221; p. 387.
- Piston and plunger rod lubricator. C. W. Felton. No. 1,166,341; Dec. 28; Gaz. vol. 221; p. 1390.
- Piston and spark-plug shield, Combined. N. Van Dyke. No. 1,129,028; Feb. 16; Gaz. vol. 211; p. 917.
- Piston cooling and lubricating system, Engine-. H. Lemp. No. 1,157,944; Oct. 26; Gaz. vol. 219; p. 1033.
- Piston-cooling means. W. E. Ver Planck. No. 1,157,347; Oct. 19; Gaz. vol. 219; p. 763.
- Piston-cooling means for internal-combustion engines. H. Lemp. No. 1,160,727; Nov. 16; Gaz. vol. 220; p. 903.
- Piston device, Multiple-. C. A. Dreisbach. No. 1,165,400; Dec. 28; Gaz. vol. 221; p. 1056.
- Piston, Engine-. H. V. J. Joffret. No. 1,153,795; Sept. 14; Gaz. vol. 218; p. 544.
- Piston for apparatus influenced by the expansion of a liquid through heat, Elastic. L. F. Lorenz. No. 1,158,822; Nov. 2; Gaz. vol. 220; p. 146.
- Piston for expansion-engines. R. S. Moore. No. 1,159,066; Nov. 2; Gaz. vol. 220; p. 226.
- Piston for power-hammers or the like, Cushioning-. J. B. French. No. 1,115,983; July 13; Gaz. vol. 216; p. 372.
- Piston, Internal-combustion engine-. G. K. Davol. No. 1,156,590; Oct. 12; Gaz. vol. 219; p. 465.
- Piston, Internal-combustion engine-. O. E. Jorgensen. No. 1,155,244; Sept. 28; Gaz. vol. 218; p. 1104.
- Piston-ring. J. Flammang. No. 1,165,085; Dec. 21; Gaz. vol. 221; p. 907.
- Piston-ring. A. A. Fossion. No. 1,147,228; July 20; Gaz. vol. 216; p. 829.
- Piston-ring. N. H. Hebert. No. 1,144,474; June 29; Gaz. vol. 215; p. 1313.
- Piston-ring. G. A. Hendrickson. No. 1,127,619; Feb. 9; Gaz. vol. 211; p. 373.
- Piston-ring. J. P. Highley. No. 1,161,050; Nov. 23; Gaz. vol. 220; p. 1061.
- Piston-ring. V. P. Magarrell. No. 1,151,112; Aug. 24; Gaz. vol. 217; p. 1150.
- Piston-ring. M. Setter. No. 1,139,811; May 18; Gaz. vol. 214; p. 809.
- Piston-ring. H. E. Woolery. No. 1,127,711; Feb. 9; Gaz. vol. 211; p. 406.
- Piston-ring compressor. J. A. Eikelberger. No. 1,147,625; July 20; Gaz. vol. 216; p. 968.
- Piston-ring-contracting device. F. A. Adams. No. 1,148,472; July 27; Gaz. vol. 216; p. 1293.
- Piston-ring-shell turning and parting machine. D. F. Domizi. No. 1,143,950; June 22; Gaz. vol. 215; p. 1101.
- Piston-ring, Spiral. J. Flammang. No. 1,165,084; Dec. 21; Gaz. vol. 221; p. 907.
- Piston-rings, Finishing-machine for the periphery of. D. F. Domizi. No. 1,162,581; Nov. 30; Gaz. vol. 220; p. 1640.
- Piston-rings in their grooves, Device for holding. H. E. Mason. No. 1,144,608; June 29; Gaz. vol. 215; p. 1357.
- Piston-rings, Machine for finishing the lateral edges of. D. F. Domizi. No. 1,139,650; May 18; Gaz. vol. 214; p. 752.
- Piston-rings, Machine for grinding the lateral faces of. D. F. Domizi. No. 1,139,649; May 18; Gaz. vol. 214; p. 751.
- Piston, Valved. S. M. Fulton. No. 1,164,178; Dec. 14; Gaz. vol. 221; p. 550.
- Piston with two cupped leathers. F. J. Chapsal and A. L. E. Saillot. No. 1,153,604; Sept. 14; Gaz. vol. 218; p. 479.
- Pitch-pipe. A. L. Fillmore. No. 1,125,502; Jan. 19; Gaz. vol. 210; p. 890.
- Pitcher. J. H. Lance. No. 1,165,787; Dec. 28; Gaz. vol. 221; p. 1191.
- Pitcher cover, Syrup-. G. H. Judia. No. 1,131,383; Mar. 9; Gaz. vol. 212; p. 568.
- Pitcher, Molasses and syrup. W. L. King. No. 1,156,784; Oct. 12; Gaz. vol. 219; p. 532.
- Pitcher, Syrup-. D. F. Holmes. No. 1,149,445; Aug. 10; Gaz. vol. 217; p. 445.
- Pitcher, Syrup-. J. S. Jones. No. 1,130,738; Mar. 9; Gaz. vol. 212; p. 347.
- Pitman. C. F. Michalsen. No. 1,125,863; Jan. 19; Gaz. vol. 210; p. 1018.
- Pitman-boxing. J. Churchill. No. 1,148,358; July 27; Gaz. vol. 216; p. 1255.
- Pitman connection. E. A. Fulkerson. No. 1,134,446; Apr. 6; Gaz. vol. 213; p. 133.
- Pitman-coupling. W. S. Minor. No. 1,156,918; Oct. 19; Gaz. vol. 219; p. 610.
- Pitman-coupling. W. S. Minor. No. 1,157,950; Oct. 26; Gaz. vol. 219; p. 1035.
- Pitman for pumping-jacks. F. H. and D. E. Norris. No. 1,165,998; Dec. 28; Gaz. vol. 221; p. 1264.
- Pitman, Yieldable. W. P. Coker. No. 1,128,413; Feb. 16; Gaz. vol. 211; p. 701.
- Placer-concentrating machine. J. F. Newsom. No. 1,127,667; Feb. 9; Gaz. vol. 211; p. 388.
- Packet-closure, Limiting adjustable. H. Waldes. No. 1,133,827; Mar. 30; Gaz. vol. 212; p. 1569.
- Plaited fabric. A. H. De Voe. No. 1,164,790; Dec. 21; Gaz. vol. 221; p. 804.
- Plaiting and braiding machines, Beater for. A. Schumacher. No. 1,129,237; Feb. 23; Gaz. vol. 211; p. 1025.
- Plaiting-machine. T. F. Hagarty. No. 1,154,857; Sept. 28; Gaz. vol. 218; p. 971.

- Plaiting-machine. B. Nitz. No. 1,144,080; June 22; Gaz. vol. 215; p. 1146.
- Plaiting-machine. L. Schulte. No. 1,154,630; Sept. 28; Gaz. vol. 218; p. 906.
- Plaits, Device for forming and retaining. C. A. Bisbee. No. 1,166,174; Dec. 28; Gaz. vol. 221; p. 1329.
- Plane. C. Bodmer. No. 1,134,072; Mar. 30; Gaz. vol. 212; p. 1650.
- Plane. E. W. Rees. No. 1,161,076; Nov. 23; Gaz. vol. 220; p. 1070.
- Plane. E. A. Schade. No. 1,164,615; Dec. 14; Gaz. vol. 221; p. 701.
- Plane. W. E. Sparks. No. 1,164,232; Dec. 14; Gaz. vol. 221; p. 567.
- Plane and analogous woodworking-tool for grooving, rabbeting, beading, and the like, Grooving-. J. S. Howkins. No. 1,153,790; Sept. 14; Gaz. vol. 218; p. 543.
- Plane, Bench-. A. A. Page. No. 1,124,325; Jan. 12; Gaz. vol. 210; p. 434.
- Plane, Bench-. T. G. Selleck. No. 1,157,594; Oct. 19; Gaz. vol. 219; p. 846.
- Plane, Bench-. W. E. Sparks. No. 1,151,301; Aug. 24; Gaz. vol. 217; p. 1215.
- Plane, Bench or hand. G. Sabo. No. 1,146,525; July 13; Gaz. vol. 216; p. 565.
- Plane, Carpenter's. J. Tischler. No. 1,123,957; Jan. 5; Gaz. vol. 210; p. 258.
- Plane, Grooving-. S. De Ayala. No. 1,158,648; Nov. 2; Gaz. vol. 220; p. 85.
- Planes, Adjustable knob for. B. F. Vaughan. No. 1,149,703; Aug. 10; Gaz. vol. 217; p. 538.
- Planes, Gage attachment for. T. J. Kintner. No. 1,144,041; June 22; Gaz. vol. 215; p. 1134.
- Planer feed-gear. J. C. Bell. No. 1,161,592; Nov. 23; Gaz. vol. 220; p. 1253.
- Planer, Open-side. E. J. Raverty. No. 1,128,187; Feb. 9; Gaz. vol. 211; p. 575.
- Planers, Motor gear-drive for. W. C. Farnum. No. 1,140,334; May 18; Gaz. vol. 214; p. 992.
- Planing-machine cutter-guard. J. A. Woodford. No. 1,126,151; Jan. 26; Gaz. vol. 210; p. 1155.
- Planing machine, Floor-. H. L. Young. No. 1,137,105; Apr. 27; Gaz. vol. 213; p. 1191.
- Planing-machines and like reciprocating tools, Apparatus for electrically operating and controlling. A. P. Wood. No. 1,147,666; July 20; Gaz. vol. 216; p. 982.
- Planing-machines and the like reciprocating tools, Apparatus for electrically controlling. A. P. Wood. No. 1,147,584; July 20; Gaz. vol. 216; p. 953.
- Planing-machines and the like reciprocating tools, Apparatus for electrically operating. A. P. Wood and R. S. McLeod. No. 1,147,585; July 20; Gaz. vol. 216; p. 953.
- Planing metal articles, Die for. J. Lundgren. No. 1,152,826; Sept. 7; Gaz. vol. 218; p. 164.
- Planimeter. K. Keeler. No. 1,129,872; Mar. 2; Gaz. vol. 212; p. 13.
- Plant and flower stand. A. T. Chalk. No. 1,153,028; Sept. 7; Gaz. vol. 218; p. 237.
- Plant and tree digger. J. C. Bates. No. 1,162,126; Nov. 30; Gaz. vol. 220; p. 1487.
- Plant-bed protector. H. B. Cribb. No. 1,139,167; May 11; Gaz. vol. 214; p. 547.
- Plant-cover. L. J. Merriman. No. 1,144,663; June 29; Gaz. vol. 215; p. 1376.
- Plant lifting and transplanting machine. G. M. Von Hassel. No. 1,129,924; Mar. 2; Gaz. vol. 212; p. 32.
- Plant-protector. W. H. Denker. No. 1,161,379; Nov. 23; Gaz. vol. 220; p. 1180.
- Plant-protector. W. H. Denker. No. 1,161,380; Nov. 23; Gaz. vol. 220; p. 1181.
- Plant-protector. F. Gompf. No. 1,134,841; Apr. 6; Gaz. vol. 213; p. 273.
- Plant-protector. H. S. Nichols. No. 1,125,378; Jan. 19; Gaz. vol. 210; p. 848.
- Plant-protector. G. W. Roberts. No. 1,145,266; July 6; Gaz. vol. 216; p. 102.
- Plant-setting machine. S. L. Bryant. No. 1,154,173; Sept. 21; Gaz. vol. 218; p. 710.
- Plant-shield. L. F. Suddick. No. 1,142,991; June 15; Gaz. vol. 215; p. 744.
- Plant-stalks, System and apparatus for disposing of. I. L. Dawson. No. 1,162,985; Dec. 7; Gaz. vol. 221; p. 87.
- Plant-stand. C. T. Boone. No. 1,137,737; May 4; Gaz. vol. 214; p. 6.
- Plant-support. W. F. Maas. No. 1,146,891; July 20; Gaz. vol. 216; p. 710.
- Plant-supporting device. W. H. Allen. No. 1,129,838; Mar. 2; Gaz. vol. 212; p. 3.
- Plants or loosening their fibers, Opening out. C. F. Kibler. No. 1,131,715; Mar. 16; Gaz. vol. 212; p. 718.
- Planter. L. L. Bevis. No. 1,142,481; June 8; Gaz. vol. 215; p. 528.
- Planter. P. Burke. No. 1,147,480; July 20; Gaz. vol. 216; p. 917.
- Planter. J. D. Chantler. No. 1,142,400; June 8; Gaz. vol. 215; p. 500.
- Planter. C. H. Dooley. No. 1,124,307; Jan. 12; Gaz. vol. 210; p. 428.
- Planter. D. Draper. No. 1,152,402; Sept. 7; Gaz. vol. 218; p. 7.
- Planter. W. W. Harris. No. 1,127,238; Feb. 2; Gaz. vol. 211; p. 202.
- Planter. N. J. Shaeffer. No. 1,143,733; June 22; Gaz. vol. 215; p. 1025.
- Planter. T. D. Sims. No. 1,150,310; Aug. 17; Gaz. vol. 217; p. 817.
- Planter. D. D. Stephens. No. 1,131,013; Mar. 9; Gaz. vol. 212; p. 441.
- Planter. S. T. Walp. No. 1,137,933; May 4; Gaz. vol. 214; p. 73.
- Planter. E. R. Walters and A. Huffman. No. 1,162,001; Nov. 30; Gaz. vol. 220; p. 1442.
- Planter and fertilizer distributor, Combined. H. C. Stanton. No. 1,132,401; Mar. 16; Gaz. vol. 212; p. 969.
- Planter and fertilizer-distributor, Combined. E. W. Williamson. No. 1,126,928; Feb. 2; Gaz. vol. 211; p. 93.
- Planter and fertilizer-distributor, Corn-. J. M. Bryan. No. 1,135,433; Apr. 13; Gaz. vol. 213; p. 522.
- Planter attachment, Potato-. J. J. Dutrow. No. 1,128,236; Feb. 9; Gaz. vol. 211; p. 591.
- Planter attachment, Seed-. E. M. Lusk. (Reissue.) No. 1,3962; Aug. 17; Gaz. vol. 217; p. 1003.
- Planter, Check-row. J. F. Matheny. No. 1,152,033; Aug. 31; Gaz. vol. 217; p. 1513.
- Planter, Corn-. W. Browning. No. 1,157,501; Oct. 19; Gaz. vol. 219; p. 817.
- Planter, Corn-. I. M. Chrisco. No. 1,126,393; Jan. 26; Gaz. vol. 210; p. 1242.
- Planter, Corn-. H. L. Dooley. No. 1,128,766; Feb. 16; Gaz. vol. 211; p. 822.
- Planter, Corn-. A. J. Felsman. No. 1,161,298; Nov. 23; Gaz. vol. 220; p. 1151.
- Planter, Corn-. M. H. Madsen. No. 1,155,592; Oct. 5; Gaz. vol. 219; p. 92.
- Planter, Corn-. G. C. Magerl. No. 1,140,755; May 25; Gaz. vol. 214; p. 1173.
- Planter, Corn-. L. McWatters. No. 1,126,647; Jan. 26; Gaz. vol. 210; p. 1336.
- Planter, Corn-. A. L. Rardon. No. 1,158,847; Nov. 2; Gaz. vol. 220; p. 154.
- Planter, Corn-. W. H. Stephens. No. 1,162,526; Nov. 30; Gaz. vol. 220; p. 1624.
- Planter, Corn-. I. A. Weaver. No. 1,144,625; June 29; Gaz. vol. 215; p. 1364.
- Planter, Cotton-. W. E. Johnson. No. 1,131,245; Mar. 9; Gaz. vol. 212; p. 521.
- Planter driving mechanism, Corn-. L. E. Waterman. No. 1,159,443; Nov. 9; Gaz. vol. 220; p. 392.
- Planter, Hand-. R. C. Himebaugh. No. 1,144,127; June 22; Gaz. vol. 215; p. 1164.
- Planter, Hand-. R. C. Himebaugh. No. 1,153,225; Sept. 14; Gaz. vol. 218; p. 342.
- Planter barrow attachment, Corn-. C. E. Powers. No. 1,136,975; Apr. 27; Gaz. vol. 213; p. 1143.
- Planter marker, Corn-. R. E. Mudd. No. 1,134,891; Apr. 6; Gaz. vol. 213; p. 289.
- Planter marker, Corn-. C. E. Norman. No. 1,162,642; Nov. 30; Gaz. vol. 220; p. 1659.
- Planter marker, Corn-. G. W. Randolph. No. 1,164,393; Dec. 14; Gaz. vol. 221; p. 626.
- Planter, Peanut-. J. R. Ayers. No. 1,161,369; Nov. 23; Gaz. vol. 220; p. 1176.
- Planter, Peanut-. J. W. Crider. No. 1,164,171; Dec. 14; Gaz. vol. 221; p. 547.
- Planter, Potato-. J. B. Dey. No. 1,129,383; Feb. 23; Gaz. vol. 211; p. 1076.
- Planter, Potato-. M. E. Dore. No. 1,158,031; Oct. 26; Gaz. vol. 219; p. 1064.
- Planter, Potato-. T. L. Good. No. 1,142,515; June 8; Gaz. vol. 215; p. 541.
- Planter, Potato-. C. D. Hatfield. No. 1,160,887; Nov. 16; Gaz. vol. 220; p. 958.
- Planter, Potato-. A. D. Welker and L. E. Snyder. No. 1,161,560; Nov. 23; Gaz. vol. 220; p. 1243.
- Planter row-marking attachment, Corn-. R. D. Spears. No. 1,152,345; Aug. 31; Gaz. vol. 217; p. 1621.
- Planter, Seed-. L. M. Heckart. No. 1,159,584; Nov. 9; Gaz. vol. 220; p. 442.
- Planter, Seed-. W. J. Johnson. No. 1,128,787; Feb. 16; Gaz. vol. 211; p. 830.
- Planter, Seed-. A. J. H. Reid. No. 1,137,901; May 4; Gaz. vol. 214; p. 62.
- Planter, seeder, or dropping mechanism. H. L. Dooley. No. 1,149,118; Aug. 3; Gaz. vol. 217; p. 221.
- Planter, Two-row. B. M. Payne. No. 1,133,498; Mar. 30; Gaz. vol. 212; p. 1449.
- Planter, Variable-drop. H. L. Dooley. No. 1,138,941; May 11; Gaz. vol. 214; p. 466.
- Planter, Variable-drop. C. H. White. No. 1,149,105; Aug. 3; Gaz. vol. 217; p. 217.
- Planter, Wireless corn-. L. E. Easter. No. 1,153,426; Sept. 14; Gaz. vol. 218; p. 415.
- Planters, Check-row wire mechanism for. C. E. White. No. 1,143,674; June 22; Gaz. vol. 215; p. 1007.
- Planters, Clutch-mechanism for. J. B. Bartholomew. No. 1,131,898; Mar. 16; Gaz. vol. 212; p. 785.
- Planters, Cutter for potato-. F. Lahr. No. 1,137,870; May 4; Gaz. vol. 214; p. 51.
- Planters, Elevating mechanism for corn-. D. D. Stephens. No. 1,131,014; Mar. 9; Gaz. vol. 212; p. 441.
- Planters, Feed mechanism for potato-. B. Jirotko. No. 1,139,292; May 11; Gaz. vol. 214; p. 589.

Alphabetical list of inventions—Continued.

- Planters, Land-marker for corn. I. L. Catlin. No. 1,128,408; Feb. 16; Gaz. vol. 211; p. 699.
- Planters, Lifter for marker-bars of. F. F. Nolte. No. 1,134,634; Apr. 6; Gaz. vol. 213; p. 201.
- Planters, Marker mechanism for. C. H. Dorley. No. 1,142,814; June 8; Gaz. vol. 215; p. 467.
- Planters, Seed-dropping plate for. M. Fraizer. No. 1,164,490; Dec. 14; Gaz. vol. 221; p. 659.
- Planters, Seed-separating mechanism for. J. B. Bartholomew. No. 1,131,899; Mar. 16; Gaz. vol. 212; p. 786.
- Planters, Wireless check-row attachment for rotary drop corn. G. S. Wyatt and C. R. Farmer. No. 1,140,556; May 25; Gaz. vol. 214; p. 1107.
- Planting-board. W. H. Mast. No. 1,161,714; Nov. 23; Gaz. vol. 220; p. 1294.
- Planting device, Seed. W. J. Reeser. No. 1,124,523; Jan. 12; Gaz. vol. 210; p. 505.
- Planting-machine. F. Kosinski. No. 1,163,831; Dec. 14; Gaz. vol. 221; p. 431.
- Planting machine, Corn. E. H. Stoeber. No. 1,145,714; July 6; Gaz. vol. 216; p. 260.
- Planting mechanism, Seed. O. B. Murphy. No. 1,147,039; July 20; Gaz. vol. 216; p. 763.
- Planting-pots, Mechanism for forming. G. B. Southard. No. 1,147,276; July 20; Gaz. vol. 216; p. 844.
- Plaque, Ornamental. R. W. Smith. No. 1,143,601; June 15; Gaz. vol. 215; p. 957.
- Plaster and retarder therefor, Gypsum. E. Duryee. No. 1,151,095; Aug. 24; Gaz. vol. 217; p. 1144.
- Plaster-board, D. A. Cameron. No. 1,129,637; Feb. 23; Gaz. vol. 211; p. 1165.
- Plaster-board, Method and apparatus for producing. D. E. Roberts. No. 1,162,103; Nov. 30; Gaz. vol. 220; p. 1478.
- Plaster boards or blocks for use in partition-wall and ceiling construction, Metallic box-clip for. M. H. Jester. No. 1,126,020; Jan. 26; Gaz. vol. 210; p. 1107.
- Plaster-boards used in partition construction, Supporting device for. M. H. Jester. No. 1,124,909; Jan. 12; Gaz. vol. 210; p. 644.
- Plaster composition and making the same. H. S. Spackman and E. W. Lazell. No. 1,142,989; June 15; Gaz. vol. 215; p. 744.
- Plaster fabric. M. S. Sanders. No. 1,158,861; Nov. 2; Gaz. vol. 220; p. 159.
- Plaster-mixer. A. Nydegger. No. 1,131,260; Mar. 9; Gaz. vol. 212; p. 526.
- Plaster-retarder from bean-vines, Manufacture of. D. Y. Strauss. No. 1,134,964; Apr. 6; Gaz. vol. 213; p. 314.
- Plaster-spool container. O. C. Schulz. No. 1,151,971; Aug. 31; Gaz. vol. 217; p. 1492.
- Plaster to concrete surfaces, Material for binding. W. A. Stotzer. No. 1,152,860; Sept. 7; Gaz. vol. 218; p. 177.
- Plastered surfaces, Composition for finishing. S. W. Ramsey. No. 1,127,514; Feb. 9; Gaz. vol. 211; p. 339.
- Plasterer's implement, Combination. A. D. Stratton. No. 1,154,453; Sept. 21; Gaz. vol. 218; p. 806.
- Plasterer's tool. W. R. Hunter. No. 1,135,901; Apr. 13; Gaz. vol. 213; p. 686.
- Plastic and elastic material for tarring roads or for other purposes, Manufacture of. A. J. Rosen. No. 1,155,442; Oct. 5; Gaz. vol. 219; p. 41.
- Plastic and fabric articles, Treating combined. R. B. Price. No. 1,152,836; Sept. 7; Gaz. vol. 218; p. 168.
- Plastic articles by dipping, Machine for forming. J. L. Mahoney. No. 1,160,923; Nov. 16; Gaz. vol. 220; p. 971.
- Plastic body, Making a. L. H. Baekeland. No. 1,160,362; Nov. 16; Gaz. vol. 220; p. 771.
- Plastic composition for dress-form-molding purposes. J. Sanderson. No. 1,123,600; Jan. 5; Gaz. vol. 210; p. 138.
- Plastic composition for making receptacles. C. S. Dolley. No. 1,146,787; July 20; Gaz. vol. 216; p. 674.
- Plastic composition, Making a cementitious. J. H. Amies. No. 1,150,481; Aug. 17; Gaz. vol. 217; p. 876.
- Plastic compound and making same. W. A. Beatty. No. 1,158,960; Nov. 2; Gaz. vol. 220; p. 192.
- Plastic compound and making same. W. A. Beatty. No. 1,158,961; Nov. 2; Gaz. vol. 220; p. 192.
- Plastic material. F. G. Wiechmann. No. 1,135,340; Apr. 13; Gaz. vol. 213; p. 489.
- Plastic material, Apparatus for forming articles of. C. J. Kirk. No. 1,156,085; Oct. 12; Gaz. vol. 219; p. 291.
- Plastic material, Apparatus for treating. R. B. Price. No. 1,156,096; Oct. 12; Gaz. vol. 219; p. 295.
- Plastic material, Device for casting ornaments in work of. H. C. and H. B. Bourquin. No. 1,146,397; July 13; Gaz. vol. 216; p. 518.
- Plastic-material mold. E. J. Noble. No. 1,146,811; July 20; Gaz. vol. 216; p. 682.
- Plastic material, Treatment of. R. B. Price. No. 1,161,965; Nov. 30; Gaz. vol. 220; p. 1430.
- Plastic materials, Machine for treating. H. J. Hoyt. No. 1,163,089; Dec. 7; Gaz. vol. 221; p. 123.
- Plastic materials, Manufacturing articles from. R. B. Price. No. 1,152,834; Sept. 7; Gaz. vol. 218; p. 167.
- Plastic materials, Roller apparatus for masticating. J. H. Nuttall. No. 1,149,853; Aug. 10; Gaz. vol. 217; p. 593.
- Plastic materials, Treating. R. B. Price. No. 1,152,835; Sept. 7; Gaz. vol. 218; p. 167.
- Plastic materials, Treating. R. B. Price. No. 1,152,837; Sept. 7; Gaz. vol. 218; p. 168.
- Plastic molding composition and producing same. J. W. Aylsworth. No. 1,146,299; July 13; Gaz. vol. 216; p. 482.
- Plastic product. W. A. Beatty. No. 1,158,962; Nov. 2; Gaz. vol. 220; p. 193.
- Plastic substances, Machine for compressing or molding. G. R. Schueler. No. 1,127,925; Feb. 9; Gaz. vol. 211; p. 483.
- Plastics, Treatment of vulcanizable. E. E. A. G. Meyer. No. 1,157,887; Oct. 26; Gaz. vol. 219; p. 1014.
- Plate and film numbering machine. J. R. Stephenson. No. 1,159,126; Nov. 2; Gaz. vol. 220; p. 247.
- Plate and pan lifter. P. J. Smart. No. 1,146,029; July 13; Gaz. vol. 216; p. 389.
- Plate-bending machine. S. G. Goss. No. 1,126,982; Feb. 2; Gaz. vol. 211; p. 111.
- Plate, Chafing. C. T. Westlake. No. 1,154,223; Sept. 21; Gaz. vol. 218; p. 726.
- Plate-clamp. W. Hohner. No. 1,159,941; Nov. 9; Gaz. vol. 220; p. 573.
- Plate-clamp. L. Middleditch. No. 1,164,954; Dec. 21; Gaz. vol. 221; p. 862.
- Plate, Corrugated. W. T. Van Dorn. No. 1,126,135; Jan. 26; Gaz. vol. 210; p. 1150.
- Plate finishing and cooling machine. W. Evensen. No. 1,126,740; Feb. 2; Gaz. vol. 211; p. 26.
- Plate finishing and cooling machine. W. Evensen. No. 1,126,741; Feb. 2; Gaz. vol. 211; p. 27.
- Plate finishing and trimming machine. H. F. Bechman. No. 1,129,948; Mar. 2; Gaz. vol. 212; p. 40.
- Plate-finishing machine. S. G. Goss. No. 1,126,983; Feb. 2; Gaz. vol. 211; p. 112.
- Plate-finishing machine. S. G. Goss. No. 1,126,984; Feb. 2; Gaz. vol. 211; p. 112.
- Plate-finishing machine. J. J. Walser. No. 1,127,126; Feb. 2; Gaz. vol. 211; p. 164.
- Plate-holder. T. Bucher. No. 1,128,286; Feb. 16; Gaz. vol. 211; p. 659.
- Plate-holder. C. F. Holybee. No. 1,159,673; Nov. 9; Gaz. vol. 220; p. 473.
- Plate-holder indicator, Automatic. C. R. Teige and A. L. Hart. No. 1,143,462; June 15; Gaz. vol. 215; p. 910.
- Plate-holding device. E. W. Cooper. No. 1,128,853; Feb. 16; Gaz. vol. 211; p. 854.
- Plate-holding device. F. W. Weston. No. 1,132,642; Mar. 23; Gaz. vol. 212; p. 1105.
- Plate-hook. B. F. Upham. No. 1,142,208; June 8; Gaz. vol. 215; p. 430.
- Plate-lifter. M. C. Adams. No. 1,138,169; May 4; Gaz. vol. 214; p. 158.
- Plate-mill. J. M. Perry. No. 1,159,531; Nov. 9; Gaz. vol. 220; p. 423.
- Plate proving and trimming machine. O. Roesen. No. 1,125,179; Jan. 19; Gaz. vol. 210; p. 776.
- Plate-retaining device. F. S. Stafford. No. 1,135,144; Apr. 13; Gaz. vol. 213; p. 423.
- Plate-setting and heel-blank-binding device. E. T. Benton, Jr. No. 1,124,265; Jan. 12; Gaz. vol. 210; p. 412.
- Plated flat-ware, Manufacture of. A. Wilzin. No. 1,139,390; May 11; Gaz. vol. 214; p. 624.
- Plating-barrel. F. S. Chase and J. H. Graham. No. 1,135,660; Apr. 13; Gaz. vol. 213; p. 603.
- Plating cast iron or steel. F. Moench. No. 1,165,338; Dec. 21; Gaz. vol. 221; p. 995.
- Plating-machine. L. T. Bulley and G. E. Wheeler. No. 1,139,454; May 11; Gaz. vol. 214; p. 647.
- Plating-machine. J. A. L. Deters. No. 1,164,932; Dec. 21; Gaz. vol. 221; p. 854.
- Plating-machine. L. Schulte. No. 1,165,346; Dec. 21; Gaz. vol. 221; p. 997.
- Plating or decorating chinaware or glassware. F. Moench. No. 1,157,569; Oct. 19; Gaz. vol. 219; p. 838.
- Platen mechanism. E. Ocumpaugh. No. 1,142,977; June 15; Gaz. vol. 215; p. 739.
- Platen-operating mechanism. E. G. Latta. No. 1,134,751; Apr. 6; Gaz. vol. 213; p. 244.
- Platen-press gripper. R. Holland and F. J. Dunn. No. 1,142,040; June 8; Gaz. vol. 215; p. 372.
- Platen-presses, Automatic sheet feeding and delivering mechanism for. J. Horn. No. 1,154,312; Sept. 21; Gaz. vol. 218; p. 757.
- Platen-release. G. T. Trundle, Jr. No. 1,148,940; Aug. 3; Gaz. vol. 217; p. 161.
- Platen-release mechanism. C. Spiro. No. 1,151,059; Aug. 24; Gaz. vol. 217; p. 1132.
- Platen-shifting mechanism. T. E. Buschmann. No. 1,150,498; Aug. 17; Gaz. vol. 217; p. 882.
- Platform adjustment. J. C. Flight. No. 1,135,572; Apr. 13; Gaz. vol. 213; p. 571.
- Platform mechanism, Automatic safety. F. Hedley and J. S. Doyle. No. 1,149,760; Aug. 10; Gaz. vol. 217; p. 559.
- Platform mechanism, Safety. F. Hedley and J. S. Doyle. No. 1,149,759; Aug. 10; Gaz. vol. 217; p. 558.
- Platform-wheel. J. H. Carr. No. 1,139,160; May 11; Gaz. vol. 214; p. 545.
- Platforms, Automatic control mechanism for safety. F. Hedley and J. S. Doyle. No. 1,149,761; Aug. 10; Gaz. vol. 217; p. 559.

- Platinum metals, Recovering native. R. E. Lyons. No. 1,126,646; Jan. 26; Gaz. vol. 210; p. 1336.
- Playground apparatus, Slide. L. Willour. No. 1,161,098; Nov. 23; Gaz. vol. 220; p. 1077.
- Player-actions, Control-lever mounting for. H. B. Todd. No. 1,139,927; May 18; Gaz. vol. 214; p. 849.
- Player instruments, Cleaning attachment for. P. B. French. No. 1,145,009; July 6; Gaz. vol. 216; p. 10.
- Player mechanism, Single-valve. W. A. Watson. No. 1,142,863; June 15; Gaz. vol. 215; p. 698.
- Player mechanisms, Automatic stop for power-driven. F. C. White. No. 1,154,082; Sept. 21; Gaz. vol. 218; p. 678.
- Players, Pneumatic action for automatic. M. Clark. No. 1,141,379; June 1; Gaz. vol. 215; p. 105.
- Playground apparatus. M. B. Reach. No. 1,126,082; Jan. 26; Gaz. vol. 210; p. 1132.
- Playing apparatus, Automatic. J. Schwertner. No. 1,127,097; Feb. 2; Gaz. vol. 211; p. 153.
- Playing apparatus, Automatic. J. Schwertner. No. 1,133,581; Mar. 30; Gaz. vol. 212; p. 1480.
- Pliers. J. Aderer. No. 1,141,916; June 8; Gaz. vol. 215; p. 329.
- Pliers. W. D. Bryce. No. 1,155,882; Oct. 5; Gaz. vol. 219; p. 194.
- Pliers. J. K. Champ. No. 1,123,243; Jan. 5; Gaz. vol. 210; p. 14.
- Pliers. E. H. Elwell. No. 1,124,118; Jan. 5; Gaz. vol. 210; p. 313.
- Pliers. H. Erickson. No. 1,151,772; Aug. 31; Gaz. vol. 217; p. 1422.
- Pliers. C. F. Menzel and G. C. Carpenter. No. 1,135,830; Apr. 13; Gaz. vol. 213; p. 663.
- Pliers. J. A. Wescott. No. 1,127,557; Feb. 9; Gaz. vol. 211; p. 353.
- Pliers. F. Woodhead. No. 1,155,632; Oct. 5; Gaz. vol. 219; p. 106.
- Pliers and like gripping-tool. A. S. F. Robinson. No. 1,136,618; Apr. 20; Gaz. vol. 213; p. 981.
- Pliers and similar tool. W. S. Thomson. No. 1,159,621; Nov. 9; Gaz. vol. 220; p. 456.
- Pliers attachment, Wire. C. J. Johnson. No. 1,147,510; July 20; Gaz. vol. 216; p. 927.
- Pliers or similar tool. W. A. Bernard. No. 1,134,177; Apr. 6; Gaz. vol. 213; p. 34.
- Pliers, Piston-ring. D. J. Campbell. No. 1,153,674; Sept. 14; Gaz. vol. 218; p. 502.
- Pliers, Piston-ring. D. J. Campbell. No. 1,157,082; Oct. 19; Gaz. vol. 219; p. 669.
- Pliers, Wire-. J. Mumford. No. 1,129,828; Feb. 23; Gaz. vol. 211; p. 1227.
- Plotter. C. C. Buchanan. No. 1,142,077; June 8; Gaz. vol. 215; p. 385.
- Plow. J. Abello. No. 1,161,825; Nov. 30; Gaz. vol. 220; p. 1379.
- Plow. C. L. Allen. No. 1,129,055; Feb. 23; Gaz. vol. 211; p. 961.
- Plow. R. B. Armentraut. No. 1,131,026; Mar. 9; Gaz. vol. 212; p. 446.
- Plow. W. Bahmuller. No. 1,166,169; Dec. 28; Gaz. vol. 221; p. 1327.
- Plow. S. A. Barker. No. 1,156,831; Oct. 12; Gaz. vol. 219; p. 549.
- Plow. J. B. Bartholomew. No. 1,143,163; June 15; Gaz. vol. 215; p. 804.
- Plow. D. A. Biebinger. No. 1,161,919; Nov. 30; Gaz. vol. 220; p. 1413.
- Plow. G. F. Butler. No. 1,153,025; Sept. 7; Gaz. vol. 218; p. 236.
- Plow. W. W. Cameron. No. 1,124,292; Jan. 12; Gaz. vol. 210; p. 423.
- Plow. F. T. Churchill. No. 1,135,879; Apr. 13; Gaz. vol. 213; p. 678.
- Plow. B. O. Cummings and D. S. McArthur. No. 1,149,811; Aug. 10; Gaz. vol. 217; p. 577.
- Plow. F. E. Davis. No. 1,130,714; Mar. 9; Gaz. vol. 212; p. 339.
- Plow. E. L. Fleeharty. No. 1,129,971; Mar. 2; Gaz. vol. 212; p. 46.
- Plow. W. W. Green. No. 1,154,307; Sept. 21; Gaz. vol. 218; p. 755.
- Plow. R. Grubb. No. 1,155,917; Oct. 5; Gaz. vol. 219; p. 206.
- Plow. E. Hankins. No. 1,128,604; Feb. 16; Gaz. vol. 211; p. 767.
- Plow. C. F. Harkrader and G. A. Manyan. No. 1,123,280; Jan. 5; Gaz. vol. 210; p. 26.
- Plow. W. A. Hart. No. 1,126,632; Jan. 26; Gaz. vol. 210; p. 1331.
- Plow. C. O. Hembree. No. 1,155,418; Oct. 5; Gaz. vol. 219; p. 33.
- Plow. H. F. Hildebrandt. No. 1,166,207; Dec. 28; Gaz. vol. 221; p. 1342.
- Plow. O. Hough. No. 1,132,847; Mar. 23; Gaz. vol. 212; p. 1182.
- Plow. J. W. Keck. No. 1,151,884; Aug. 31; Gaz. vol. 217; p. 1462.
- Plow. W. A. Kimbell. No. 1,157,399; Oct. 19; Gaz. vol. 219; p. 782.
- Plow. W. A. Kimbell. No. 1,158,134; Oct. 26; Gaz. vol. 219; p. 1101.
- Plow. E. G. Kimmel. No. 1,141,965; June 8; Gaz. vol. 215; p. 344.
- Plow. T. and J. Kondras. No. 1,158,936; Nov. 2; Gaz. vol. 220; p. 184.
- Plow. M. Kunik. No. 1,130,524; Mar. 2; Gaz. vol. 212; p. 240.
- Plow. M. Kunik. No. 1,149,371; Aug. 10; Gaz. vol. 217; p. 419.
- Plow. M. Letroteur. No. 1,150,438; Aug. 17; Gaz. vol. 217; p. 860.
- Plow. C. McDowell. No. 1,137,646; Apr. 27; Gaz. vol. 213; p. 1382.
- Plow. C. H. Melvin. No. 1,137,881; May 4; Gaz. vol. 214; p. 55.
- Plow. J. W. Montgomery. No. 1,147,420; July 20; Gaz. vol. 216; p. 897.
- Plow. W. Mowry. No. 1,134,149; Apr. 6; Gaz. vol. 213; p. 23.
- Plow. N. A. Nelson. No. 1,161,241; Nov. 23; Gaz. vol. 220; p. 1130.
- Plow. A. Pankey. No. 1,143,309; June 15; Gaz. vol. 215; p. 856.
- Plow. R. Payton. No. 1,125,165; Jan. 19; Gaz. vol. 210; p. 770.
- Plow. G. Pfannenmüller. No. 1,158,838; Nov. 2; Gaz. vol. 220; p. 151.
- Plow. J. Plummer. No. 1,145,212; July 6; Gaz. vol. 216; p. 82.
- Plow. E. V. Posey. No. 1,164,862; Dec. 21; Gaz. vol. 221; p. 830.
- Plow. J. W. Randolph. No. 1,123,922; Jan. 5; Gaz. vol. 210; p. 247.
- Plow. C. C. Reed. No. 1,162,401; Nov. 30; Gaz. vol. 220; p. 1580.
- Plow. S. Sitter. No. 1,165,808; Dec. 28; Gaz. vol. 221; p. 1199.
- Plow. M. Sklovsky. No. 1,124,344; Jan. 12; Gaz. vol. 210; p. 441.
- Plow. H. C. Stanton. No. 1,136,448; Apr. 20; Gaz. vol. 213; p. 921.
- Plow. W. A. Stewart. No. 1,129,245; Feb. 23; Gaz. vol. 211; p. 1028.
- Plow. A. C. Stopp. No. 1,123,618; Jan. 5; Gaz. vol. 210; p. 144.
- Plow. C. G. Strandlund. No. 1,125,206; Jan. 19; Gaz. vol. 210; p. 785.
- Plow. H. Sveinson. No. 1,145,943; July 13; Gaz. vol. 216; p. 358.
- Plow. L. E. Waterman. No. 1,129,926; Mar. 2; Gaz. vol. 212; p. 32.
- Plow. D. C. Weatherhead. No. 1,143,468; June 15; Gaz. vol. 215; p. 912.
- Plow. J. L. Williams. No. 1,160,025; Nov. 9; Gaz. vol. 220; p. 600.
- Plow and cultivator, Reversible disk. A. P. McKay. No. 1,165,267; Dec. 21; Gaz. vol. 221; p. 971.
- Plow and drag, Combined. H. W. Thayer. No. 1,128,916; Feb. 16; Gaz. vol. 211; p. 877.
- Plow and fertilizer-distributor, Combined. E. R. Hill. No. 1,125,021; Jan. 12; Gaz. vol. 210; p. 683.
- Plow and gage-wheel, Moldboard and landside. A. Haferkamp. No. 1,148,838; Aug. 3; Gaz. vol. 217; p. 127.
- Plow attachment. J. M. Combs. No. 1,126,402; Jan. 26; Gaz. vol. 210; p. 1245.
- Plow attachment. R. W. Parramore. No. 1,138,307; May 4; Gaz. vol. 214; p. 205.
- Plow attachment. P. Pillow. No. 1,147,543; July 20; Gaz. vol. 216; p. 939.
- Plow attachment. W. J. Powell. No. 1,125,883; Jan. 19; Gaz. vol. 210; p. 1025.
- Plow attachment. C. J. Tuseth. No. 1,164,147; Dec. 14; Gaz. vol. 221; p. 540.
- Plow attachment, Disk. I. Desy. No. 1,144,176; June 22; Gaz. vol. 215; p. 1183.
- Plow attachment, Lister. F. S. McCune and N. Jones. No. 1,132,371; Mar. 16; Gaz. vol. 212; p. 958.
- Plow attachment, Sulky. P. A. Doyle. No. 1,138,546; May 4; Gaz. vol. 214; p. 288.
- Plow, Automatic-disengaging motor. F. Potter. No. 1,159,268; Nov. 2; Gaz. vol. 220; p. 298.
- Plow, Automatic reservoir-forming. R. H. McAdams. No. 1,124,930; Jan. 12; Gaz. vol. 210; p. 651.
- Plow, Automatic trip-beam. J. ten Hoope. No. 1,127,441; Feb. 9; Gaz. vol. 211; p. 312.
- Plow, Automobile. A. E. Cook and T. Vantuyt. No. 1,158,109; Oct. 26; Gaz. vol. 219; p. 1092.
- Plow, Auxiliary. W. E. Kuehne. No. 1,128,461; Feb. 16; Gaz. vol. 211; p. 718.
- Plow-beam adjustment. W. A. Paul. No. 1,136,833; Apr. 20; Gaz. vol. 213; p. 1058.
- Plow-beam clip. W. H. Starkey. No. 1,127,818; Feb. 9; Gaz. vol. 211; p. 446.
- Plow, Beet-. J. F. Iverson. No. 1,161,215; Nov. 23; Gaz. vol. 220; p. 1121.
- Plow, Brush-. M. C. French. No. 1,153,213; Sept. 14; Gaz. vol. 218; p. 336.
- Plow-colters and the like, Bearing-bolt for. S. Bacher. No. 1,166,309; Dec. 28; Gaz. vol. 221; p. 1379.
- Plow, Deep-tilling gang-. P. B. Crane. No. 1,162,457; Nov. 30; Gaz. vol. 220; p. 1599.
- Plow-disk assembly. A. E. Cook. No. 1,158,110; Oct. 26; Gaz. vol. 219; p. 1092.

Alphabetical list of inventions—Continued.

- Plow disk attachment. R. J. Kulisch. No. 1,162,934; Dec. 7; Gaz. vol. 221; p. 69.
- Plow, Ditching-. A. Cordeau. No. 1,128,855; Feb. 16; Gaz. vol. 211; p. 854.
- Plow, Ditching-. J. H. Sylvestersen. No. 1,165,297; Dec. 21; Gaz. vol. 221; p. 981.
- Plow-drag. G. A. Sanford. No. 1,131,010; Mar. 9; Gaz. vol. 212; p. 440.
- Plow, Engine gang-. E. M. Heylman. No. 1,148,088; July 27; Gaz. vol. 216; p. 1159.
- Plow, Engine gang-. C. H. Melvin. No. 1,149,074; Aug. 3; Gaz. vol. 217; p. 208.
- Plow, Engine gang-. N. I. Milliken. No. 1,148,040; July 27; Gaz. vol. 216; p. 1140.
- Plow, Engine gang-. W. L. Paul. No. 1,148,043; July 27; Gaz. vol. 216; p. 1142.
- Plow-fender. J. M. Starr. No. 1,157,129; Oct. 19; Gaz. vol. 219; p. 685.
- Plow frame, Gang-. D. S. Troth. No. 1,157,067; Oct. 19; Gaz. vol. 219; p. 663.
- Plow, Gang-. J. B. Bartholomew. No. 1,160,685; Nov. 16; Gaz. vol. 220; p. 889.
- Plow, Gang-. J. B. Bartholomew. No. 1,160,686; Nov. 16; Gaz. vol. 220; p. 889.
- Plow, Gang-. C. A. Brostrom. No. 1,139,751; May 18; Gaz. vol. 214; p. 787.
- Plow, Gang-. F. L. Dewey. No. 1,149,900; Aug. 10; Gaz. vol. 217; p. 609.
- Plow, Gang-. J. O. Fjarii. No. 1,124,004; Jan. 5; Gaz. vol. 210; p. 274.
- Plow, Gang-. J. O. Fjarii. (Reissue.) No. 1,4017; Nov. 23; Gaz. vol. 220; p. 1337.
- Plow, Gang-. W. S. Graham. No. 1,163,143; Dec. 7; Gaz. vol. 221; p. 142.
- Plow, Gang-. F. S. Williams. No. 1,157,136; Oct. 19; Gaz. vol. 219; p. 687.
- Plow, Garden-. J. H. Rhoten. No. 1,131,007; Mar. 9; Gaz. vol. 212; p. 439.
- Plow, Hand-. S. Alunan. No. 1,125,435; Jan. 19; Gaz. vol. 210; p. 868.
- Plow harrow attachment. H. W. Corathers. No. 1,132,563; Mar. 23; Gaz. vol. 212; p. 1075.
- Plow harrow attachment. C. R. and C. C. Holland. No. 1,129,981; Mar. 2; Gaz. vol. 212; p. 50.
- Plow harrow attachment, Gang-. W. Minier. No. 1,165,527; Dec. 28; Gaz. vol. 221; p. 1099.
- Plow hitch, Gang-. W. A. Paul. No. 1,164,390; Dec. 14; Gaz. vol. 221; p. 624.
- Plow hitch, Sidehill-. J. W. Holmes. No. 1,125,323; Jan. 19; Gaz. vol. 210; p. 827.
- Plow mechanism, Adjustable. E. Popp. No. 1,129,516; Feb. 23; Gaz. vol. 211; p. 1123.
- Plow-moldboard. C. K. Miller. No. 1,159,063; Nov. 2; Gaz. vol. 220; p. 225.
- Plow-moldboard. W. A. White. No. 1,155,854; Oct. 5; Gaz. vol. 219; p. 185.
- Plow, Motor-. A. J. Blauvelt. No. 1,157,289; Oct. 19; Gaz. vol. 219; p. 743.
- Plow, Motor-. A. Cross. No. 1,163,895; Dec. 14; Gaz. vol. 221; p. 451.
- Plow, Motor-. L. S. Hayes. No. 1,165,097; Dec. 21; Gaz. vol. 221; p. 911.
- Plow, Motor-. W. R. Jones. No. 1,123,748; Jan. 5; Gaz. vol. 210; p. 188.
- Plow, Motor-. W. L. Kenison and J. A. Neely. No. 1,152,369; Aug. 31; Gaz. vol. 217; p. 1630.
- Plow, Motor-. E. T. McKaig. No. 1,126,054; Jan. 26; Gaz. vol. 210; p. 1120.
- Plow, Motor-. M. Samel. No. 1,154,889; Sept. 28; Gaz. vol. 218; p. 982.
- Plow, Motor-. P. E. Schultz. No. 1,151,622; Aug. 31; Gaz. vol. 217; p. 1371.
- Plow, Motor-. R. Stock. No. 1,152,374; Aug. 31; Gaz. vol. 217; p. 1632.
- Plow, Motor-. G. O. Wihs and O. Petri. No. 1,148,420; July 27; Gaz. vol. 216; p. 1275.
- Plow or cultivator, Subsoil-. J. T. Andrew and A. W. Landers. No. 1,130,655; Mar. 2; Gaz. vol. 212; p. 284.
- Plow or spreader, Ballast. C. C. Mallard. No. 1,155,429; Oct. 5; Gaz. vol. 219; p. 37.
- Plow, Palmetto-root. E. A. Kilgore and J. W. Keller. No. 1,143,204; June 15; Gaz. vol. 215; p. 820.
- Plow, Power-operated. O. Schubert. No. 1,161,534; Nov. 23; Gaz. vol. 220; p. 1234.
- Plow, Reversible. F. Lange. No. 1,151,198; Aug. 24; Gaz. vol. 217; p. 1181.
- Plow, Reversible. H. Wiard and A. J. Spire. No. 1,126,603; Jan. 26; Gaz. vol. 210; p. 1320.
- Plow, Reversible disk. E. Bowlin. No. 1,152,279; Aug. 31; Gaz. vol. 217; p. 1597.
- Plow, Reversible disk. A. P. McKay. No. 1,137,770; May 4; Gaz. vol. 214; p. 17.
- Plow, Reversible disk. J. W. Ragsdale. No. 1,150,534; Aug. 17; Gaz. vol. 217; p. 894.
- Plow, Reversible gang-. L. Brown. No. 1,127,179; Feb. 2; Gaz. vol. 211; p. 181.
- Plow, Reversible gang-. L. Brown. No. 1,149,720; Aug. 10; Gaz. vol. 217; p. 544.
- Plow, Root-cutting. A. D. Webster. No. 1,149,102; Aug. 3; Gaz. vol. 217; p. 216.
- Plow, Rotary. O. W. Johnson. No. 1,145,147; July 6; Gaz. vol. 216; p. 60.
- Plow, Rotary. J. McCarthy. No. 1,161,143; Nov. 23; Gaz. vol. 220; p. 1093.
- Plow setting device, Sulky-. R. E. Gould. No. 1,133,558; Mar. 30; Gaz. vol. 212; p. 1472.
- Plow-shoe. J. F. Webb, Jr. No. 1,145,283; July 6; Gaz. vol. 216; p. 107.
- Plow, Shovel-. J. Z. Kendrick. No. 1,134,462; Apr. 6; Gaz. vol. 213; p. 138.
- Plow, Shuttle riding-. V. E. King. No. 1,152,896; Sept. 7; Gaz. vol. 218; p. 190.
- Plow, Snow-. F. C. Heinen. No. 1,144,763; June 29; Gaz. vol. 215; p. 1412.
- Plow-stock. F. C. Kirkpatrick. No. 1,144,042; June 22; Gaz. vol. 215; p. 1135.
- Plow-stock shield. H. B. Baucom. No. 1,138,273; May 4; Gaz. vol. 214; p. 193.
- Plow stocks and handles, Clamping device for. W. N. Gandy. No. 1,154,754; Sept. 28; Gaz. vol. 218; p. 937.
- Plow structure. A. Erickson. No. 1,129,859; Mar. 2; Gaz. vol. 212; p. 9.
- Plow, Subsoil-. M. T. Scott. No. 1,136,172; Apr. 20; Gaz. vol. 213; p. 821.
- Plow, Sulky-. G. Wiard. No. 1,149,314; Aug. 10; Gaz. vol. 217; p. 398.
- Plow-sweep holder. H. Tatum. No. 1,147,565; July 20; Gaz. vol. 216; p. 946.
- Plow, Traction-. H. N. Carpenter. No. 1,123,991; Jan. 5; Gaz. vol. 210; p. 268.
- Plow, Traction-. N. and L. Nilson. No. 1,164,308; Dec. 14; Gaz. vol. 221; p. 591.
- Plow, Tractor-. H. R. Boswell. No. 1,157,670; Oct. 26; Gaz. vol. 219; p. 938.
- Plow, Turn-. W. H. Comans. No. 1,123,850; Jan. 5; Gaz. vol. 210; p. 222.
- Plow, Wheeled. H. J. Hirsheimer. No. 1,130,732; Mar. 9; Gaz. vol. 212; p. 345.
- Plow, Wheeled-. A. C. Lindgren. No. 1,159,689; Nov. 9; Gaz. vol. 220; p. 480.
- Plow, Wheeled. C. H. Melvin. No. 1,160,743; Nov. 16; Gaz. vol. 220; p. 909.
- Plows, Adjustment device for quack-grass. W. Bernd and L. W. Burden. No. 1,129,780; Feb. 23; Gaz. vol. 211; p. 1211.
- Plows and cultivators, Tractor for. F. Griffin. No. 1,158,680; Nov. 2; Gaz. vol. 220; p. 95.
- Plows, Disk-jointer for. P. H. Geisler. No. 1,155,349; Oct. 5; Gaz. vol. 219; p. 9.
- Plows, Foot-lift for. A. M. Govaerts. No. 1,140,129; Aug. 3; Gaz. vol. 217; p. 225.
- Plows, Furrow-gage for. E. Maurer. No. 1,144,370; June 29; Gaz. vol. 215; p. 1279.
- Plows, Harrow attachment for. J. S. Rawlings, Jr. No. 1,148,254; July 27; Gaz. vol. 216; p. 1217.
- Plows, Means for operating gang-. W. Gregory. (Re-issue.) No. 1,4018; Nov. 23; Gaz. vol. 220; p. 1338.
- Plows, Reversible seat for wheeled. E. H. Smith. No. 1,158,867; Nov. 2; Gaz. vol. 220; p. 161.
- Plows, Tool-holding attachment for. C. Petersen. No. 1,125,169; Jan. 19; Gaz. vol. 210; p. 772.
- Plows, Weed and trash rod for. F. J. A. Rhode. No. 1,162,310; Nov. 30; Gaz. vol. 220; p. 1550.
- Plowing-machine. A. C. Lindgren. No. 1,154,995; Sept. 28; Gaz. vol. 218; p. 1018.
- Plowing-machine. H. Stelzmann. No. 1,137,031; Apr. 27; Gaz. vol. 213; p. 1164.
- Plowing-machine. J. K., J. B., and G. T. Underwood. No. 1,124,558; Jan. 12; Gaz. vol. 210; p. 519.
- Plowing mechanism. J. Havas. No. 1,127,759; Feb. 9; Gaz. vol. 211; p. 423.
- Plowshare. M. Mares. No. 1,136,825; Apr. 20; Gaz. vol. 213; p. 1055.
- Plowshare. M. Mares. No. 1,140,275; May 18; Gaz. vol. 214; p. 971.
- Plowshare. A. B. Wright. No. 1,133,211; Mar. 23; Gaz. vol. 212; p. 1313.
- Plowshare, Detachable. I. A. Weaver. No. 1,137,817; May 4; Gaz. vol. 214; p. 33.
- Plowshare-fastener. H. M. Shirk. No. 1,126,580; Jan. 26; Gaz. vol. 210; p. 1313.
- Plowshare-tongs. N. Mullet. No. 1,147,533; July 20; Gaz. vol. 216; p. 935.
- Plowshares, Pulverizing attachment for. D. S. Carter. No. 1,137,952; May 4; Gaz. vol. 214; p. 81.
- Plug. A. F., O. B., and W. F. Bahr. No. 1,166,310; Dec. 28; Gaz. vol. 221; p. 1379.
- Plug and base, Combined attachment-. M. Norden. No. 1,143,306; June 15; Gaz. vol. 215; p. 855.
- Plug and base, Combined attachment-. M. Norden. No. 1,151,214; Aug. 24; Gaz. vol. 217; p. 1187.
- Plug and pilot-light, Combination. J. A. Hunt. No. 1,162,167; Nov. 30; Gaz. vol. 220; p. 1500.
- Plug and receptacle, Attachment-. G. W. Goodridge. No. 1,166,349; Dec. 28; Gaz. vol. 221; p. 1392.
- Plug-and-socket connector. J. Sachs. No. 1,135,206; Apr. 13; Gaz. vol. 213; p. 443.
- Plug, Attaching-. H. P. Ball. No. 1,154,834; Sept. 28; Gaz. vol. 218; p. 965.
- Plug, Attachment-. G. W. Goodridge. No. 1,152,170; Aug. 31; Gaz. vol. 217; p. 1559.
- Plug, Attachment-. M. Herskovitz. No. 1,162,921; Dec. 7; Gaz. vol. 221; p. 65.

- Plug, Attachment-. C. D. Platt. No. 1,145,033; July 6; Gaz. vol. 213; p. 21.
- Plug, Attachment-. C. D. Platt. No. 1,151,038; Aug. 24; Gaz. vol. 217; p. 1126.
- Plug, Attachment-. H. P. Rounds. No. 1,160,531; Nov. 16; Gaz. vol. 220; p. 830.
- Plug-cutting machine. J. T. Little. No. 1,150,279; Aug. 17; Gaz. vol. 217; p. 807.
- Plug, Expandible. G. Middleton. No. 1,146,944; July 20; Gaz. vol. 216; p. 729.
- Plug fitting, Attachment-. G. W. Goodridge. No. 1,143,536; June 15; Gaz. vol. 215; p. 934.
- Plug, Fracture-indicating. H. Van Dyken. No. 1,151,630; Aug. 31; Gaz. vol. 217; p. 1374.
- Plug, Freezing-. J. W. Howell. No. 1,159,225; Nov. 2; Gaz. vol. 220; p. 284.
- Plug, Fusible safety-. J. T. Dodson. No. 1,151,764; Aug. 31; Gaz. vol. 217; p. 1418.
- Plug, Pneumatic. G. F. Conley. No. 1,158,108; Oct. 26; Gaz. vol. 219; p. 1091.
- Plug receptacle, Attachment-. G. A. Gauthier. No. 1,159,207; Nov. 2; Gaz. vol. 220; p. 278.
- Plug receptacle, Attachment-. H. Hubbell. No. 1,146,938; July 20; Gaz. vol. 216; p. 727.
- Plug, Separable attachment-. R. B. Benjamin. No. 1,154,963; Sept. 28; Gaz. vol. 218; p. 1007.
- Plug-socket. W. C. Neahr. No. 1,159,701; Nov. 9; Gaz. vol. 220; p. 484.
- Plug-switch. W. S. Hadaway, Jr., and E. E. Rose. No. 1,150,112; Aug. 17; Gaz. vol. 217; p. 746.
- Plug-switch. W. F. Meschenmoser. No. 1,157,026; Oct. 19; Gaz. vol. 219; p. 649.
- Plug-switch. F. J. Ravlin and J. Lofgren. No. 1,144,781; June 29; Gaz. vol. 215; p. 1418.
- Plug, Swivel attachment-. C. J. Alpaugh. No. 1,164,249; Dec. 14; Gaz. vol. 221; p. 273.
- Plug, Washout-. T. F. Hayes. No. 1,163,820; Dec. 14; Gaz. vol. 221; p. 427.
- Plugs, Base member for separable attachment-. J. G. Peterson. No. 1,130,626; Mar. 2; Gaz. vol. 212; p. 274.
- Plugs, Making connecting-. F. B. Cook. No. 1,161,194; Nov. 23; Gaz. vol. 220; p. 1113.
- Plumb and gage, Mason's corner. H. J. McKnight. No. 1,145,694; July 6; Gaz. vol. 216; p. 251.
- Plumb and level, Combination. A. Bevacqua. No. 1,162,018; Nov. 30; Gaz. vol. 220; p. 1448.
- Plumb and level gage. A. C. Greider. No. 1,165,246; Dec. 21; Gaz. vol. 221; p. 965.
- Plumb-bob. J. Dailey and D. Bertolino. No. 1,124,595; Jan. 12; Gaz. vol. 210; p. 532.
- Plumb-bob-point protector and cord-holder. D. R. Byron. No. 1,147,304; July 20; Gaz. vol. 216; p. 853.
- Plumb-bob support. A. Rogers. No. 1,141,977; June 8; Gaz. vol. 215; p. 348.
- Plumber's clamp. A. L. Vroman. No. 1,166,284; Dec. 28; Gaz. vol. 221; p. 1370.
- Plumber's fixture. N. August, Jr. No. 1,142,225; June 8; Gaz. vol. 215; p. 437.
- Plumber's furnace. A. J. Archambault. No. 1,130,133; Mar. 2; Gaz. vol. 212; p. 101.
- Plumber's spud. A. H. Moore. No. 1,126,058; Jan. 26; Gaz. vol. 210; p. 1121.
- Plumber's test apparatus. C. G. Klein. No. 1,159,847; Nov. 9; Gaz. vol. 220; p. 539.
- Plumber's trap. J. H. Carr. No. 1,152,077; Aug. 31; Gaz. vol. 217; p. 1528.
- Plumbing connections, Coupling member for. J. H. Glauber. No. 1,136,226; Apr. 20; Gaz. vol. 213; p. 841.
- Plumbing device. E. Kennedy. No. 1,155,820; Oct. 5; Gaz. vol. 219; p. 173.
- Plumbing-fixture. I. A. Mann. No. 1,124,049; Jan. 5; Gaz. vol. 210; p. 289.
- Plumbing-fixture. I. A. Mann. No. 1,132,953; Mar. 23; Gaz. vol. 212; p. 1220.
- Plumbing-fixture. I. A. Mann. No. 1,132,954; Mar. 23; Gaz. vol. 212; p. 1220.
- Plunger-elevator, Hydraulic. K. E. O. Jansson. No. 1,136,678; Apr. 20; Gaz. vol. 213; p. 1001.
- Plunger, Mold-. A. Kinnear. No. 1,152,518; Sept. 7; Gaz. vol. 218; p. 50.
- Pneumatic action. G. P. Brand. No. 1,133,257; Mar. 30; Gaz. vol. 212; p. 1364.
- Pneumatic action. J. Courville. No. 1,164,632; Dec. 21; Gaz. vol. 221; p. 749.
- Pneumatic action. C. J. Johnson. No. 1,157,398; Oct. 19; Gaz. vol. 219; p. 781.
- Pneumatic-action mechanism, Individual. W. F. Deite-meier. No. 1,138,849; May 11; Gaz. vol. 214; p. 435.
- Pneumatic apparatus, Valve-seat for. A. P. Gustafson. No. 1,164,088; Dec. 14; Gaz. vol. 221; p. 520.
- Pneumatic cleaner. G. W. Allen. No. 1,124,684; Jan. 12; Gaz. vol. 210; p. 565.
- Pneumatic cleaners, Tank apparatus for. A. E. Tolin. No. 1,165,040; Dec. 21; Gaz. vol. 221; p. 891.
- Pneumatic cleansing apparatus. A. E. Moorhead. No. 1,126,828; Feb. 2; Gaz. vol. 211; p. 59.
- Pneumatic concentrator. R. D. O. Johnson. No. 1,139,186; May 11; Gaz. vol. 214; p. 554.
- Pneumatic controller. J. L. Osborne. No. 1,141,975; June 8; Gaz. vol. 215; p. 347.
- Pneumatic coupling. A. J. Tyler. No. 1,166,415; Dec. 28; Gaz. vol. 221; p. 1416.
- Pneumatic cushion. I. A. Lake. No. 1,163,419; Dec. 7; Gaz. vol. 221; p. 239.
- Pneumatic cushion. C. W. McDade. No. 1,136,968; Apr. 27; Gaz. vol. 213; p. 1141.
- Pneumatic cushion. H. F. Rudd. No. 1,141,360; June 1; Gaz. vol. 215; p. 97.
- Pneumatic cushion and shock-absorber. F. R. F. Richter. No. 1,135,925; Apr. 13; Gaz. vol. 213; p. 693.
- Pneumatic-cushioned frame suspension. G. L. Tinkham. No. 1,133,337; Mar. 30; Gaz. vol. 212; p. 1393.
- Pneumatic-despatch apparatus, Control for. R. Ball. No. 1,124,255; Jan. 12; Gaz. vol. 210; p. 408.
- Pneumatic-despatch circuits, Terminal for. C. S. Jennings. No. 1,158,925; Nov. 2; Gaz. vol. 220; p. 181.
- Pneumatic-despatch tube and carrier. R. G. Collins, Jr. No. 1,148,956; Aug. 3; Gaz. vol. 217; p. 167.
- Pneumatic-despatch-tube apparatus. E. A. Fordyce. No. 1,138,206; May 4; Gaz. vol. 214; p. 169.
- Pneumatic-despatch-tube apparatus. C. P. Hidden. No. 1,154,570; Sept. 21; Gaz. vol. 218; p. 845.
- Pneumatic-despatch-tube apparatus. C. S. Jennings. No. 1,130,518; Mar. 2; Gaz. vol. 212; p. 238.
- Pneumatic-despatch-tube apparatus. C. S. Jennings. No. 1,137,327; Apr. 27; Gaz. vol. 213; p. 1273.
- Pneumatic-despatch-tube apparatus. J. G. McLaren. No. 1,133,812; Mar. 30; Gaz. vol. 212; p. 1564.
- Pneumatic-despatch-tube apparatus. J. T. Needham. No. 1,124,505; Jan. 12; Gaz. vol. 210; p. 499.
- Pneumatic-despatch-tube apparatus. J. T. Needham. No. 1,134,402; Apr. 6; Gaz. vol. 213; p. 116.
- Pneumatic-despatch-tube apparatus. J. T. Needham. No. 1,148,116; July 27; Gaz. vol. 216; p. 1169.
- Pneumatic-despatch-tube apparatus. A. W. Pearsall and F. R. Taisey. No. 1,135,610; Apr. 13; Gaz. vol. 213; p. 584.
- Pneumatic-despatch-tube system. A. Watson. No. 1,159,627; Nov. 9; Gaz. vol. 220; p. 458.
- Pneumatic drill. G. H. Gilman. No. 1,150,357; Aug. 17; Gaz. vol. 217; p. 833.
- Pneumatic ejector. E. C. Bowden-Smith. No. 1,144,806; June 29; Gaz. vol. 215; p. 1428.
- Pneumatic impact-tool. W. Burlingham. No. 1,123,678; Jan. 5; Gaz. vol. 210; p. 164.
- Pneumatic player. E. T. Turney. No. 1,123,627; Jan. 5; Gaz. vol. 210; p. 147.
- Pneumatic players, Transposing mechanism for. W. C. Stephenson. No. 1,138,155; May 4; Gaz. vol. 214; p. 153.
- Pneumatic power device. A. Young. No. 1,164,247; Dec. 14; Gaz. vol. 221; p. 572.
- Pneumatic press and metal-forming machine. E. G. Gross. No. 1,137,132; Apr. 27; Gaz. vol. 213; p. 1202.
- Pneumatic spring. B. W. Davis. No. 1,152,609; Sept. 7; Gaz. vol. 218; p. 84.
- Pneumatic spring. J. Hofmann. No. 1,151,591; Aug. 31; Gaz. vol. 217; p. 1360.
- Pneumatic suction-cleaner. E. A. Martin. No. 1,140,992; May 25; Gaz. vol. 214; p. 1258.
- Pneumatic tools, Valve-motion for. R. L. Ambrose. No. 1,131,312; Mar. 16; Gaz. vol. 212; p. 755.
- Pneumatic trip. A. M. Baird and H. D. Palmer. No. 1,143,346; June 15; Gaz. vol. 215; p. 869.
- Pneumatic tube. C. F. Fisk. No. 1,135,273; Apr. 13; Gaz. vol. 213; p. 465.
- Pneumatic wheel. W. Alexandrowsky and A. Slobinski. No. 1,143,565; June 15; Gaz. vol. 215; p. 944.
- Pneumatic wheel. G. W. Atkinson. No. 1,141,918; June 8; Gaz. vol. 215; p. 329.
- Pneumatic wheel. J. Dove-Smith. No. 1,135,779; Apr. 13; Gaz. vol. 213; p. 642.
- Pneumatic wrench for applying and removing flush caps for flexible stays. C. P. Whelan. No. 1,164,561; Dec. 14; Gaz. vol. 221; p. 683.
- Pneumatically delivering material, Apparatus for. G. H. Gilbert. No. 1,146,775; July 13; Gaz. vol. 216; p. 650.
- Pocket. H. Alban. No. 1,133,906; Mar. 30; Gaz. vol. 212; p. 1596.
- Pocket. L. H. Baker. No. 1,161,435; Nov. 23; Gaz. vol. 220; p. 1200.
- Pocket. D. S. Bernstein. No. 1,146,685; July 13; Gaz. vol. 216; p. 619.
- Pocket. A. A. Brown. No. 1,128,941; Feb. 16; Gaz. vol. 211; p. 887.
- Pocket. G. W. Carver. No. 1,143,038; June 15; Gaz. vol. 215; p. 760.
- Pocket. E. O. Fellroth. No. 1,129,186; Feb. 23; Gaz. vol. 211; p. 1007.
- Pocket, Bathing-suit. A. Ellman and S. Paull. No. 1,142,509; June 8; Gaz. vol. 215; p. 539.
- Pocket, Bathing-suit. S. Paull. No. 1,164,010; Dec. 14; Gaz. vol. 221; p. 492.
- Pocket, Bathing-suit. S. Paull. No. 1,164,011; Dec. 14; Gaz. vol. 221; p. 492.
- Pocket-book. R. H. Rolfs. No. 1,146,524; July 13; Gaz. vol. 216; p. 564.
- Pocket-book protector. W. A. Macdonald. No. 1,161,782; Nov. 23; Gaz. vol. 220; p. 1318.
- Pocket-book safety attachment. C. A. Kallnbach. No. 1,127,363; Feb. 2; Gaz. vol. 211; p. 243.
- Pocket-box. I. J. Marcuse. No. 1,150,443; Aug. 17; Gaz. vol. 217; p. 861.

Alphabetical list of inventions—Continued.

- Pocket-box. I. J. Marcuse. No. 1,152,429; Sept. 7; Gaz. vol. 218; p. 17.
- Pocket-case. C. F. Harman. No. 1,129,485; Feb. 23; Gaz. vol. 211; p. 1113.
- Pocket-case, Metal. A. M. Edelstein. No. 1,126,737; Feb. 2; Gaz. vol. 211; p. 25.
- Pocket-clip for spectacle-cases or other articles. G. M. Burgess. No. 1,132,912; Mar. 23; Gaz. vol. 212; p. 1204.
- Pocket-closer. A. L. Lown. No. 1,145,496; July 6; Gaz. vol. 216; p. 182.
- Pocket companion. H. H. Wohlwend. No. 1,128,211; Feb. 9; Gaz. vol. 211; p. 582.
- Pocket-coupling. E. P. Kinne. (Reissue.) No. 1,381; Feb. 16; Gaz. vol. 211; p. 927.
- Pocket-cutter. A. B. Campbell, Jr. No. 1,137,459; Apr. 27; Gaz. vol. 213; p. 1320.
- Pocket folder, Patch. C. B. Schroeder. No. 1,146,820; July 20; Gaz. vol. 216; p. 686.
- Pocket for coats, shirts, and the like. A. J. Lewis. No. 1,154,258; Sept. 21; Gaz. vol. 218; p. 739.
- Pocket, Garment-. F. Hess. No. 1,150,432; Aug. 17; Gaz. vol. 217; p. 858.
- Pocket guard and alarm. J. T. Cowles. No. 1,128,230; Feb. 9; Gaz. vol. 211; p. 588.
- Pocket-knife. A. Klocker. No. 1,134,539; Apr. 6; Gaz. vol. 213; p. 166.
- Pocket-knife. C. H. White. No. 1,125,234; Jan. 19; Gaz. vol. 210; p. 795.
- Pocket-lock. H. E. Colleys. No. 1,125,817; Jan. 19; Gaz. vol. 210; p. 1004.
- Pocket, Loss-proof. F. Inke. No. 1,123,539; Jan. 5; Gaz. vol. 210; p. 118.
- Pocket safety device. C. Redinger. No. 1,138,507; May 4; Gaz. vol. 214; p. 275.
- Pocket safety device. S. S. Yager and C. B. Hebbard. No. 1,149,242; Aug. 10; Gaz. vol. 217; p. 371.
- Pocket-seat. P. J. Mix. No. 1,157,795; Oct. 26; Gaz. vol. 219; p. 981.
- Pocket, Secret. J. Roth. No. 1,147,445; July 20; Gaz. vol. 216; p. 905.
- Pointer, Direction-. L. S. Alter. No. 1,145,652; July 6; Gaz. vol. 216; p. 237.
- Poison-container lock. L. H. Downs. No. 1,132,566; Mar. 23; Gaz. vol. 212; p. 1076.
- Poison-distributor. H. T. French. No. 1,145,889; July 13; Gaz. vol. 216; p. 339.
- Poison-indicator. M. T. Hudson. No. 1,131,839; Mar. 16; Gaz. vol. 212; p. 765.
- Poison-indicator. W. C. Sweeney. No. 1,157,338; Oct. 19; Gaz. vol. 219; p. 760.
- Poison manufacture, Vermin-. J. W. See. No. 1,161,537; Nov. 23; Gaz. vol. 220; p. 1235.
- Poke, Animal. W. A. Hager. No. 1,157,529; Oct. 19; Gaz. vol. 219; p. 827.
- Poke, Animal. J. A. Jacobs and E. Twist. No. 1,150,942; Aug. 24; Gaz. vol. 217; p. 1093.
- Poke, Animal. W. D. Kemper. No. 1,136,014; Apr. 20; Gaz. vol. 213; p. 767.
- Poke, Animal. R. M. Noblitt. No. 1,136,970; Apr. 27; Gaz. vol. 213; p. 1142.
- Polarity-indicator. F. W. Roller. No. 1,130,633; Mar. 2; Gaz. vol. 212; p. 277.
- Pole-changer. C. J. Erickson. No. 1,162,992; Dec. 7; Gaz. vol. 221; p. 90.
- Pole-climber. J. B. Clark. No. 1,147,609; July 20; Gaz. vol. 216; p. 962.
- Pole-coupling. M. D. and A. L. Brice. No. 1,147,844; July 27; Gaz. vol. 216; p. 1071.
- Pole, Metal. C. L. Michod. No. 1,156,422; Oct. 12; Gaz. vol. 219; p. 407.
- Pole, Sectional supporting-. T. Younis. No. 1,138,826; May 11; Gaz. vol. 214; p. 426.
- Pole, Transformer-. E. O. Schweitzer. No. 1,162,657; Nov. 30; Gaz. vol. 220; p. 1664.
- Pole, Vehicle-. M. E. Anderson. No. 1,138,436; May 4; Gaz. vol. 214; p. 252.
- Pole, Vehicle-. M. E. Anderson. No. 1,145,456; July 6; Gaz. vol. 216; p. 169.
- Pole, Vehicle-. J. C. Scoggins. No. 1,161,535; Nov. 23; Gaz. vol. 220; p. 1234.
- Pole, Wire-supporting. R. Lichtenberger. No. 1,162,294; Nov. 30; Gaz. vol. 220; p. 1544.
- Police-nippers. J. J. Murphy. No. 1,147,423; July 20; Gaz. vol. 216; p. 898.
- Policeman's billy. E. L. and E. B. Von Eschen. No. 1,130,355; Mar. 2; Gaz. vol. 212; p. 178.
- Polish for woodwork and preparing the same. J. B. Hancock. No. 1,153,686; Sept. 14; Gaz. vol. 213; p. 506.
- Polishing compositions and the product thereof, Making. J. P. Carmichael. No. 1,128,287; Feb. 16; Gaz. vol. 211; p. 660.
- Polishing-cylinder. A. Paszkiewicz. No. 1,162,098; Nov. 30; Gaz. vol. 220; p. 1476.
- Polishing device. C. E. Houston. No. 1,140,593; May 25; Gaz. vol. 214; p. 1119.
- Polishing devices, Throw-out mechanism for. B. P. Swyers. No. 1,159,545; Nov. 9; Gaz. vol. 220; p. 428.
- Polishing-head. L. Crane. No. 1,141,616; June 1; Gaz. vol. 215; p. 188.
- Polishing-machine. J. F. Gail. No. 1,148,768; Aug. 3; Gaz. vol. 217; p. 103.
- Polishing-machine. J. F. Gail. No. 1,154,696; Sept. 28; Gaz. vol. 218; p. 918.
- Polishing-machine. J. G. Giesberg. No. 1,134,191; Apr. 6; Gaz. vol. 213; p. 39.
- Polishing-machine. W. L. Hodny. No. 1,142,570; June 8; Gaz. vol. 215; p. 559.
- Polishing-machine. H. J. Webb. No. 1,140,424; May 25; Gaz. vol. 214; p. 1059.
- Polishing or grinding machine. W. V. Robinson. No. 1,139,728; May 18; Gaz. vol. 214; p. 780.
- Polishing outfit. W. R. Buxton. No. 1,146,130; July 13; Gaz. vol. 216; p. 424.
- Polishing outfit. T. Sakata. No. 1,135,326; Apr. 13; Gaz. vol. 213; p. 484.
- Polishing-powder. J. W. Poulton. No. 1,145,920; July 13; Gaz. vol. 216; p. 350.
- Polycycle. D. G. Finley. No. 1,139,174; May 11; Gaz. vol. 214; p. 550.
- Polycycle. D. G. Finley. No. 1,139,175; May 11; Gaz. vol. 214; p. 550.
- Polyhydrocolchicin. E. Hug. No. 1,154,314; Sept. 21; Gaz. vol. 218; p. 758.
- Polyphase synchronous motor. B. G. Lamme. No. 1,158,511; Nov. 2; Gaz. vol. 220; p. 35.
- Polysecting any given angle, Device for. D. Kaplan. No. 1,145,369; July 6; Gaz. vol. 216; p. 136.
- Poncho. C. E. Knoblauch. No. 1,138,229; May 4; Gaz. vol. 214; p. 177.
- Pool or billiard table register. M. L. Adler. No. 1,154,226; Sept. 21; Gaz. vol. 218; p. 727.
- Pool-table pocket. G. A. Jaeger. No. 1,154,865; Sept. 28; Gaz. vol. 218; p. 973.
- Pool-table pocket. T. R. Treiber and J. W. Johnson. No. 1,128,429; Jan. 5; Gaz. vol. 210; p. 80.
- Pool-table-pocket light. H. Jorstad. No. 1,163,412; Dec. 7; Gaz. vol. 221; p. 237.
- Pool-tables, Ball-return for. M. H. Bernhard. No. 1,137,736; May 4; Gaz. vol. 214; p. 6.
- Popcorn-coating device. C. E. McCarren. No. 1,164,948; Dec. 21; Gaz. vol. 221; p. 860.
- Poppun. D. Heyman and T. R. Arden. No. 1,164,646; Dec. 21; Gaz. vol. 221; p. 754.
- Popper. A. J. Guillot. No. 1,162,859; Dec. 7; Gaz. vol. 221; p. 44.
- Popper, toaster, and baker combined. R. P. Ralston. No. 1,157,326; Oct. 19; Gaz. vol. 219; p. 755.
- Porch-shade. H. E. Rathbun. No. 1,163,951; Dec. 14; Gaz. vol. 221; p. 471.
- Porous substances, Impregnating. W. A. Beatty. No. 1,134,436; Apr. 6; Gaz. vol. 213; p. 128.
- Portable and collapsible table for automobiles. W. Schweitzer and H. H. Labadie. No. 1,129,609; Feb. 23; Gaz. vol. 211; p. 1157.
- Portable closet. G. E. Sherman. No. 1,137,431; Apr. 27; Gaz. vol. 213; p. 1311.
- Portable elevator. T. Campfield. No. 1,157,367; Oct. 19; Gaz. vol. 219; p. 770.
- Portable elevator. H. S. Germond, Jr. No. 1,130,080; Mar. 2; Gaz. vol. 212; p. 83.
- Portable engine. E. J. Armstrong. No. 1,163,122; Dec. 7; Gaz. vol. 221; p. 135.
- Portable heater. E. B. Oelker and F. C. Ludlow. No. 1,160,949; Nov. 16; Gaz. vol. 220; p. 980.
- Portable house. W. O'Hara. No. 1,152,655; Sept. 7; Gaz. vol. 218; p. 101.
- Portable house, Folding. C. D. Cromley. No. 1,124,212; Jan. 5; Gaz. vol. 210; p. 346.
- Portable joint for ropes, wire, and the like. J. Park. No. 1,159,863; Nov. 9; Gaz. vol. 220; p. 545.
- Portable tank. J. B. Bartholomew. No. 1,137,733; May 4; Gaz. vol. 214; p. 5.
- Portière. J. Hoyer. No. 1,133,966; Mar. 30; Gaz. vol. 212; p. 1614.
- Portière or curtain hanger. H. C. Moore. No. 1,152,383; Aug. 31; Gaz. vol. 217; p. 1634.
- Portières, curtains, and the like, Hanger for. L. E. Wagner and F. W. Presser. No. 1,163,488; Dec. 7; Gaz. vol. 221; p. 263.
- Position of and directing access to points within closed surfaces, Apparatus for gaging the. R. H. Clarke. No. 1,134,106; Apr. 6; Gaz. vol. 213; p. 8.
- Positioning mechanism. W. S. Brown. No. 1,143,034; June 15; Gaz. vol. 215; p. 758.
- Post. See—
 Adjusting-post. Metal post.
 Binding-post. Railway bumping-post.
 Brake-beam post. Rubbing-post.
 Bumping-post. Service-post.
 Concrete post. Sign-post.
 Corset front post. Sign and lighting post.
 Crown-post. Turret-post.
 Direction-post. Turret tool-post.
 Electric binding-post. Violin sound-post.
 Fence-post.
- Post. C. C. Cherry. No. 1,156,207; Oct. 12; Gaz. vol. 219; p. 231.
- Post. C. L. Michod. No. 1,142,046; June 8; Gaz. vol. 215; p. 374.
- Post. F. Novess. No. 1,134,897; Apr. 6; Gaz. vol. 213; p. 292.
- Post. B. C. Rockwell. No. 1,131,737; Mar. 16; Gaz. vol. 212; p. 726.

- Post-anchor. C. F. Noakes. No. 1,133,496; Mar. 30; Gaz. vol. 212; p. 1449.
- Post-base, Detachable. A. Z. Pierce. No. 1,131,864; Mar. 16; Gaz. vol. 212; p. 774.
- Post binder, Sectional. R. Krumming. No. 1,143,716; June 22; Gaz. vol. 215; p. 1020.
- Post-brace. A. W. Sprague. No. 1,165,459; Dec. 28; Gaz. vol. 221; p. 1077.
- Post-card, candy-container, and mail-receptacle, Combined. W. A. Schmidt. No. 1,143,729; June 22; Gaz. vol. 215; p. 1025.
- Post-drill, Blacksmith's. M. A. Dorothy. No. 1,155,222; Sept. 28; Gaz. vol. 218; p. 1097.
- Post for office-railings and the like. H. Klein and L. J. Mead. No. 1,135,817; Apr. 13; Gaz. vol. 213; p. 656.
- Post-forming machine. G. G. McGlaughlin and A. Mill. No. 1,158,703; Nov. 2; Gaz. vol. 220; p. 102.
- Post-hole auger or digger, Expandible. H. A. Wolf. No. 1,149,707; Aug. 10; Gaz. vol. 217; p. 539.
- Post-hole-boring apparatus. T. Wheeler. No. 1,143,872; June 22; Gaz. vol. 215; p. 1074.
- Post-hole digger. E. E. Goheen. No. 1,129,344; Feb. 23; Gaz. vol. 211; p. 1062.
- Post-hole digger. E. E. Goheen. No. 1,129,345; Feb. 23; Gaz. vol. 211; p. 1062.
- Post-hole digger. G. A. Hepp. No. 1,128,137; Feb. 9; Gaz. vol. 211; p. 557.
- Post-hole digger. H. A. Wolf. No. 1,160,483; Nov. 16; Gaz. vol. 220; p. 814.
- Post-mold. W. R. Burwell. No. 1,125,958; Jan. 26; Gaz. vol. 210; p. 1084.
- Post-mold. O. G. Weed. No. 1,134,653; Apr. 6; Gaz. vol. 213; p. 208.
- Post-puller. C. E. Angster. No. 1,153,747; Sept. 14; Gaz. vol. 218; p. 528.
- Post-puller. E. W. Carlson. No. 1,130,144; Mar. 2; Gaz. vol. 212; p. 105.
- Post wire-holder, Cement. A. J. Rader. No. 1,131,416; Mar. 9; Gaz. vol. 212; p. 581.
- Posts of stone. Wire crib for forming. J. W. Page. No. 1,135,134; Apr. 13; Gaz. vol. 213; p. 419.
- Postage-stamp. W. O. Besaw. No. 1,131,464; Mar. 9; Gaz. vol. 212; p. 597.
- Postal franking-machine. E. Moss. No. 1,129,111; Feb. 23; Gaz. vol. 211; p. 981.
- Poster-mounting. E. L. Harmon. No. 1,128,781; Feb. 16; Gaz. vol. 211; p. 828.
- Poster or display-card. W. D. Roy. No. 1,139,075; May 11; Gaz. vol. 214; p. 515.
- Pot: See—
- | | |
|-------------------|---------------------|
| Casting-pot. | Glue-pot. |
| Coating-pot. | Glue or like pot. |
| Coffee-pot. | Marking-pot. |
| Dash-pot. | Paint-pot. |
| Flower-pot. | Pump-valve pot. |
| Furnace fire-pot. | Tea and coffee pot. |
- Glass-drawing pot.
- Pot and cover lifter. K. Prochaska. No. 1,134,905; Apr. 6; Gaz. vol. 213; p. 293.
- Pot and pan lifter. N. Constantine. No. 1,143,253; June 15; Gaz. vol. 215; p. 838.
- Pot-cover. J. F. Foster. No. 1,141,455; June 1; Gaz. vol. 215; p. 132.
- Pot-cover. W. C. Nye. No. 1,129,115; Feb. 23; Gaz. vol. 211; p. 983.
- Pot-cover holder. J. R. W. Menger. No. 1,125,585; Jan. 19; Gaz. vol. 210; p. 918.
- Pot-furnace. J. E. Black. No. 1,147,699; July 27; Gaz. vol. 216; p. 1020.
- Pot-head connector. P. F. Williams. No. 1,154,823; Sept. 28; Gaz. vol. 218; p. 961.
- Pot-holder. J. T. Morgan. No. 1,139,212; May 11; Gaz. vol. 214; p. 563.
- Pot-hd. L. Ward and J. V. Miller. No. 1,145,723; July 6; Gaz. vol. 216; p. 262.
- Pot-press especially adapted for the extraction of cacao-butter or cacao-oil. P. T. Hänel. No. 1,162,353; Nov. 30; Gaz. vol. 220; p. 1565.
- Pots, Cleaning. A. E. Spinasse. No. 1,157,597; Oct. 19; Gaz. vol. 219; p. 847.
- Pots or crucibles, Guard for. T. F. Martin. No. 1,130,184; Mar. 2; Gaz. vol. 212; p. 119.
- Pots, Process and apparatus for drying. W. E. Barnes. No. 1,151,555; Aug. 31; Gaz. vol. 217; p. 1347.
- Pottery-machine. E. G. Haney. No. 1,145,767; July 6; Gaz. vol. 216; p. 277.
- Pottery-molding machine. C. Eckstein. No. 1,129,797; Feb. 23; Gaz. vol. 211; p. 1218.
- Pottery, Producing translucent ornaments or designs in. A. Schlegelmich. No. 1,158,863; Nov. 2; Gaz. vol. 220; p. 160.
- Potash and other substances from kelp, Extracting. S. R. Oppenheim. No. 1,141,482; June 1; Gaz. vol. 215; p. 142.
- Potash and structural materials and products thereof, Making. A. C. Spencer. No. 1,146,532; July 13; Gaz. vol. 216; p. 567.
- Potash from potassium-iron silicates, Recovering. H. P. Bassett. No. 1,159,464; Nov. 9; Gaz. vol. 220; p. 401.
- Potash, Recovering. A. C. Spencer. No. 1,157,437; Oct. 19; Gaz. vol. 219; p. 796.
- Potassium and aluminum from their silicate combinations, Separating. S. Peacock. No. 1,129,505; Feb. 23; Gaz. vol. 211; p. 1119.
- Potassium and sodium salts from kelp-ashes, Manufacture of. C. Klingbiel. No. 1,162,617; Nov. 30; Gaz. vol. 220; p. 1652.
- Potassium chlorid, Obtaining. J. A. Bradburn. No. 1,156,388; Oct. 12; Gaz. vol. 219; p. 395.
- Potassium from fine-dust, Extracting. S. Peacock. No. 1,124,798; Jan. 12; Gaz. vol. 210; p. 605.
- Potassium sulfate, Producing. G. S. Morgan. No. 1,161,239; Nov. 23; Gaz. vol. 220; p. 1130.
- Potato-chip cutter. E. Bradley. No. 1,148,747; Aug. 3; Gaz. vol. 217; p. 96.
- Potato-cleaning apparatus. F. G. Campodonico. No. 1,125,898; Jan. 19; Gaz. vol. 210; p. 1030.
- Potato cutter, Seed. T. J. Harrison. No. 1,154,765; Sept. 28; Gaz. vol. 218; p. 941.
- Potato-digger. E. R. Allen. No. 1,133,908; Mar. 30; Gaz. vol. 212; p. 1597.
- Potato-digger. F. Bryla. No. 1,143,886; June 22; Gaz. vol. 215; p. 1079.
- Potato-digger. J. A. Gilliam. No. 1,124,414; Jan. 12; Gaz. vol. 210; p. 466.
- Potato-digger. I. Harrison. No. 1,135,180; Apr. 13; Gaz. vol. 213; p. 435.
- Potato-digger. E. P. Kendall. No. 1,163,348; Dec. 7; Gaz. vol. 221; p. 215.
- Potato-digger. G. E. Patton. No. 1,125,390; Jan. 19; Gaz. vol. 210; p. 853.
- Potato-digger. K. J. Severson. No. 1,143,446; June 15; Gaz. vol. 215; p. 905.
- Potato-digger. O. Youngkin and H. H. Hicks. No. 1,129,939; Mar. 2; Gaz. vol. 212; p. 37.
- Potato-digger. J. Ziencik. No. 1,136,461; Apr. 20; Gaz. vol. 213; p. 925.
- Potato-digger and vine-separator, Combined. I. W. Hoover. No. 1,130,403; Mar. 2; Gaz. vol. 212; p. 195.
- Potato-digging machine. N. Keeler. No. 1,134,205; Apr. 6; Gaz. vol. 213; p. 45.
- Potato-digger. Wheeled. E. Silberberg. No. 1,159,110; Nov. 2; Gaz. vol. 220; p. 242.
- Potato-digging machine. H. Eskett. No. 1,157,931; Oct. 26; Gaz. vol. 219; p. 1029.
- Potato-fork. A. H. Korteum and F. Baus. No. 1,135,820; Apr. 13; Gaz. vol. 213; p. 658.
- Potato-gatherer. L. Brandt. No. 1,131,465; Mar. 9; Gaz. vol. 212; p. 597.
- Potato-masher. E. F. Smith. No. 1,148,547; Aug. 3; Gaz. vol. 217; p. 22.
- Potato-picker. J. Flynn. No. 1,138,371; May 4; Gaz. vol. 214; p. 229.
- Potato screening and sorting machine. T. S. Harris and J. P. Morgan. No. 1,161,211; Nov. 23; Gaz. vol. 220; p. 1119.
- Potato-separator. S. Garfield. No. 1,123,514; Jan. 5; Gaz. vol. 210; p. 108.
- Potato-sorter. J. and M. Krentz. No. 1,156,786; Oct. 12; Gaz. vol. 219; p. 533.
- Potato-sorter. S. E. Rhodes. No. 1,135,395; Apr. 13; Gaz. vol. 213; p. 507.
- Potato-sorter, Double-belt. F. Boggs. No. 1,136,584; Apr. 20; Gaz. vol. 213; p. 969.
- Potato-stripper. E. N. Olson. No. 1,154,539; Sept. 21; Gaz. vol. 218; p. 834.
- Potato-washers, Bearing for. J. Fesenmaier. No. 1,164,799; Dec. 21; Gaz. vol. 221; p. 809.
- Potatoes, Simultaneously peeling and slicing. O. R. Durrant. No. 1,151,674; Aug. 31; Gaz. vol. 217; p. 1387.
- Potential-regulator. H. W. Cheney. No. 1,153,422; Sept. 14; Gaz. vol. 218; p. 414.
- Potential-regulator. E. H. Porter. No. 1,165,372; Dec. 21; Gaz. vol. 221; p. 1007.
- Pouch, Manure. R. A. and J. A. Rice. No. 1,136,272; Apr. 20; Gaz. vol. 213; p. 857.
- Pouches, Former for self-closing. W. W. MacDonald. No. 1,156,847; Oct. 12; Gaz. vol. 219; p. 556.
- Poultry-decapitator. F. R. Hogan. No. 1,149,517; Aug. 10; Gaz. vol. 217; p. 470.
- Poultry exerciser and feeder. F. A. Rappleye. No. 1,132,973; Mar. 23; Gaz. vol. 212; p. 1228.
- Poultry-fountain. J. Guidinger. No. 1,144,591; June 29; Gaz. vol. 215; p. 1352.
- Poultry, Head-cover for. W. W. Redman. No. 1,164,868; Dec. 21; Gaz. vol. 221; p. 831.
- Poultry-house. J. Liska. No. 1,137,411; Apr. 27; Gaz. vol. 213; p. 1304.
- Poultry house and pen. P. B. Laidlaw. No. 1,150,774; Aug. 17; Gaz. vol. 217; p. 976.
- Poultry-killing apparatus. V. Cassard. No. 1,133,362; Mar. 30; Gaz. vol. 212; p. 1402.
- Poultry-picking frame. H. C. Pierce. No. 1,155,004; Sept. 28; Gaz. vol. 218; p. 1021.
- Poultry-producing apparatus. C. J. Coleman. No. 1,158,447; Nov. 2; Gaz. vol. 220; p. 13.
- Poultry-raising plant. V. Wrenn. No. 1,127,712; Feb. 9; Gaz. vol. 211; p. 406.
- Poultry system. J. A. Conboie. No. 1,135,665; Apr. 13; Gaz. vol. 213; p. 605.
- Poultry-watering device. N. S. Jackson. No. 1,148,778; Aug. 3; Gaz. vol. 217; p. 107.

Alphabetical list of inventions—Continued.

- Poultry-wing holder. R. Nye. No. 1,164,388; Dec. 14; Gaz. vol. 221; p. 624.
- Pouncing-pad. A. Turner. No. 1,139,928; May 18; Gaz. vol. 214; p. 849.
- Pour-out. P. Anderson. No. 1,164,775; Dec. 21; Gaz. vol. 221; p. 799.
- Pou-out stopper. J. T. Craw. No. 1,140,959; May 25; Gaz. vol. 214; p. 1247.
- Pouring-lip for receptacles. G. J. Record. No. 1,165,285; Dec. 21; Gaz. vol. 221; p. 977.
- Pouring-spout cap. S. Pilarowski. No. 1,154,205; Sept. 21; Gaz. vol. 218; p. 719.
- Powder. Catalytic metal. C. Ellis. No. 1,165,956; Dec. 28; Gaz. vol. 221; p. 1249.
- Powder dispenser. Tooth. R. D. Gee. No. 1,154,391; Sept. 21; Gaz. vol. 218; p. 785.
- Powder-distributor. W. R. Lee. No. 1,150,129; Aug. 17; Gaz. vol. 217; p. 752.
- Powder-distributor. C. H. Leggett. No. 1,148,785; Aug. 3; Gaz. vol. 217; p. 109.
- Powder, Fuse-igniting. S. Lilley, Sr. No. 1,128,158; Feb. 9; Gaz. vol. 211; p. 565.
- Powder into spherical grains, Process of and apparatus for forming explosive. E. du Pont. No. 1,162,757; Dec. 7; Gaz. vol. 221; p. 9.
- Powder, Manufacture of solid bodies from. H. Leiser. No. 1,141,469; June 1; Gaz. vol. 215; p. 138.
- Powder-puff. A. Schwarzhaupt. No. 1,135,852; Apr. 13; Gaz. vol. 213; p. 670.
- Powder-testing apparatus, Mining. F. I. Du Pont. No. 1,161,462; Nov. 23; Gaz. vol. 220; p. 1209.
- Powdered material, Means for feeding. C. L. Kennicott. No. 1,152,820; Sept. 7; Gaz. vol. 218; p. 162.
- Power and apparatus therefor. Generating. E. E. Gray. No. 1,147,085; July 20; Gaz. vol. 216; p. 778.
- Power, Apparatus for the transmission of. W. M. Beatty. No. 1,124,387; Jan. 12; Gaz. vol. 210; p. 457.
- Power control, Steam. J. F. Meiten. No. 1,127,484; Feb. 9; Gaz. vol. 211; p. 329.
- Power-conversion plant. E. A. Corbin. No. 1,123,491; Jan. 5; Gaz. vol. 210; p. 100.
- Power-counter. L. E. Labombarde and M. H. Sidebotham. No. 1,135,536; Apr. 13; Gaz. vol. 213; p. 557.
- Power device. B. F. Dewees. No. 1,159,906; Nov. 9; Gaz. vol. 220; p. 559.
- Power device. O. Hofstrand. No. 1,164,185; Dec. 14; Gaz. vol. 221; p. 552.
- Power device, Electromagnetic. A. K. T. Smith and P. Good. No. 1,123,411; Jan. 5; Gaz. vol. 210; p. 74.
- Power-drill. B. A. Nelson. No. 1,164,384; Dec. 14; Gaz. vol. 221; p. 622.
- Power-driven reciprocating mechanism. C. C. R. Hammar. No. 1,136,796; Apr. 20; Gaz. vol. 213; p. 1044.
- Power-factor regulator. F. H. Winter. No. 1,165,928; Dec. 28; Gaz. vol. 221; p. 1240.
- Power generating and transmitting system. V. G. Apple. No. 1,153,667; Sept. 14; Gaz. vol. 218; p. 499.
- Power-generating system. J. Patten. No. 1,154,880; Sept. 28; Gaz. vol. 218; p. 979.
- Power-generating system. C. H. Smoot. No. 1,141,983; June 8; Gaz. vol. 215; p. 350.
- Power-generator. G. Boltz. No. 1,141,308; June 1; Gaz. vol. 215; p. 79.
- Power-generator. L. D. Nourse. No. 1,148,711; Aug. 3; Gaz. vol. 217; p. 82.
- Power-generator. F. A. Ray. No. 1,164,960; Dec. 21; Gaz. vol. 221; p. 864.
- Power, Hydraulic mechanism for transmission of. A. G. M. Michell and H. C. Newton. No. 1,141,812; June 1; Gaz. vol. 215; p. 254.
- Power-machine, Shifting-weight. W. N. Packer. No. 1,163,553; Dec. 7; Gaz. vol. 221; p. 286.
- Power mechanism. I. H. Williams. No. 1,164,690; Dec. 21; Gaz. vol. 221; p. 770.
- Power mechanism, Friction. G. A. Lambert. No. 1,128,794; Feb. 16; Gaz. vol. 211; p. 832.
- Power molding-machine. A. S. Bixby. No. 1,158,398; Oct. 26; Gaz. vol. 219; p. 1194.
- Power-operated-machine guard. J. C. Kenney. No. 1,152,106; Aug. 31; Gaz. vol. 217; p. 1538.
- Power-operated mechanism, Controller for. S. T. Walkup. No. 1,135,416; Apr. 13; Gaz. vol. 213; p. 515.
- Power-press. E. W. Zeh. No. 1,141,677; June 1; Gaz. vol. 215; p. 210.
- Power-press. E. W. Zeh. No. 1,151,845; Aug. 31; Gaz. vol. 217; p. 1448.
- Power-press pattern-sheets, Manufacture of. E. Lövinsohn. No. 1,125,572; Jan. 19; Gaz. vol. 210; p. 914.
- Power-press safety device. A. T. Bumann. No. 1,150,496; Aug. 17; Gaz. vol. 217; p. 881.
- Power-press safety-guard. J. Wright. No. 1,135,480; Apr. 13; Gaz. vol. 213; p. 537.
- Power-presses, Work-table guard for. J. J. Sweeney. No. 1,137,550; Apr. 27; Gaz. vol. 213; p. 1350.
- Power, Production of motive. F. B. Aspinall. No. 1,128,834; Feb. 16; Gaz. vol. 211; p. 848.
- Power-ramp. E. W. Marshall. No. 1,127,661; Feb. 9; Gaz. vol. 211; p. 386.
- Power, Rotary mechanism for the transmission of. W. Hunt. No. 1,127,251; Feb. 2; Gaz. vol. 211; p. 207.
- Power-table for factory use. R. J. Hearne. No. 1,163,340; Dec. 7; Gaz. vol. 221; p. 213.
- Power-tools, Driving mechanism for. E. Sauler. No. 1,130,543; Mar. 2; Gaz. vol. 212; p. 247.
- Power transmission. R. Buker. No. 1,125,809; Jan. 19; Gaz. vol. 210; p. 1001.
- Power transmission. H. P. Hewett. No. 1,145,893; July 13; Gaz. vol. 216; p. 340.
- Power transmission. G. G. Milne. No. 1,145,431; July 6; Gaz. vol. 216; p. 159.
- Power-transmission apparatus. C. N. Dutton. No. 1,138,094; May 4; Gaz. vol. 214; p. 131.
- Power-transmission apparatus. G. W. Lally. No. 1,132,725; Mar. 23; Gaz. vol. 212; p. 1136.
- Power-transmission apparatus, Fluid-operated. H. Lentz. No. 1,156,787; Oct. 12; Gaz. vol. 219; p. 533.
- Power transmission, Change-speed gear for. G. H. Laidman. No. 1,151,277; Aug. 24; Gaz. vol. 217; p. 1207.
- Power-transmission device. J. W. Cockburn. No. 1,153,031; Sept. 7; Gaz. vol. 218; p. 237.
- Power-transmission device. B. E. Doty. No. 1,127,208; Feb. 2; Gaz. vol. 211; p. 192.
- Power-transmission device. L. C. Hamel. No. 1,146,495; July 13; Gaz. vol. 216; p. 554.
- Power-transmission device. W. C. Kroegher. No. 1,161,055; Nov. 23; Gaz. vol. 220; p. 1063.
- Power-transmission device. P. L. Rose. No. 1,145,439; July 6; Gaz. vol. 216; p. 162.
- Power-transmission device. G. Taylor. No. 1,165,557; Dec. 28; Gaz. vol. 221; p. 1110.
- Power-transmission device. C. W. Weiss. No. 1,141,508; June 1; Gaz. vol. 215; p. 151.
- Power-transmission device. C. W. Weiss. No. 1,146,982; July 20; Gaz. vol. 216; p. 743.
- Power transmission, Fluid. A. T. Keene. No. 1,153,930; Sept. 21; Gaz. vol. 218; p. 626.
- Power transmission, Gear-casing for. L. Noyes. No. 1,141,356; June 1; Gaz. vol. 215; p. 95.
- Power transmission, Hydraulic. J. M. W. Kitchen. No. 1,138,667; May 11; Gaz. vol. 214; p. 368.
- Power-transmission joint, Universal. J. W. Buckland. No. 1,127,352; Feb. 2; Gaz. vol. 211; p. 239.
- Power-transmission mechanism. A. Anderson. No. 1,153,882; Sept. 21; Gaz. vol. 218; p. 610.
- Power-transmission mechanism. F. F. Dorsey. No. 1,140,132; May 18; Gaz. vol. 214; p. 923.
- Power-transmission mechanism. W. S. Evans. No. 1,158,468; Nov. 2; Gaz. vol. 220; p. 20.
- Power-transmission mechanism. L. F. Goodspeed. No. 1,158,799; Nov. 2; Gaz. vol. 220; p. 137.
- Power-transmission mechanism. E. A. Halbleib. No. 1,152,504; Sept. 7; Gaz. vol. 218; p. 44.
- Power-transmission mechanism. E. A. Halbleib. No. 1,165,966; Dec. 28; Gaz. vol. 221; p. 1253.
- Power-transmission mechanism. E. A. Halbleib. No. 1,165,967; Dec. 28; Gaz. vol. 221; p. 1253.
- Power-transmission mechanism. O. L. Ingram. No. 1,165,974; Dec. 28; Gaz. vol. 221; p. 1256.
- Power-transmission mechanism. E. A. Johnston. No. 1,144,547; June 29; Gaz. vol. 215; p. 1337.
- Power-transmission mechanism. F. L. Lucke. No. 1,125,140; Jan. 19; Gaz. vol. 210; p. 761.
- Power-transmission mechanism. J. W. Matthews. No. 1,150,446; Aug. 17; Gaz. vol. 217; p. 862.
- Power-transmission mechanism. E. A. Nelson. No. 1,163,844; Dec. 14; Gaz. vol. 221; p. 435.
- Power-transmission mechanism. L. W. Noyes. No. 1,163,680; Dec. 14; Gaz. vol. 221; p. 375.
- Power-transmission mechanism. D. R. Scholes. No. 1,143,324; June 15; Gaz. vol. 215; p. 862.
- Power-transmission mechanism. G. J. Scofield. No. 1,130,341; Mar. 2; Gaz. vol. 212; p. 173.
- Power-transmission mechanism. M. L. Severy. No. 1,136,280; Apr. 20; Gaz. vol. 213; p. 860.
- Power-transmission mechanism. M. L. Severy and M. Scuterud. No. 1,126,101; Jan. 26; Gaz. vol. 210; p. 1138.
- Power-transmission mechanism. M. L. Severy and M. Scuterud. No. 1,126,102; Jan. 26; Gaz. vol. 210; p. 1139.
- Power-transmission mechanism. F. H. Summeril. No. 1,145,819; July 6; Gaz. vol. 216; p. 295.
- Power-transmission mechanism. J. G. P. Thomas. No. 1,144,011; June 22; Gaz. vol. 215; p. 1122.
- Power-transmission mechanism. J. Valentine. No. 1,158,336; Oct. 26; Gaz. vol. 219; p. 1170.
- Power-transmission mechanism. T. G. Van Sant. No. 1,156,852; Oct. 12; Gaz. vol. 219; p. 558.
- Power-transmission mechanism. G. T. Williams. No. 1,150,087; Aug. 17; Gaz. vol. 217; p. 736.
- Power-transmission mechanism for automobiles. M. L. Senderling. No. 1,128,064; Feb. 9; Gaz. vol. 211; p. 531.
- Power-transmission mechanism for motor-vehicles. G. M. Stone. No. 1,137,549; Apr. 27; Gaz. vol. 213; p. 1350.
- Power-transmission mechanism for motor-vehicles. E. J. Wendle. No. 1,129,369; Feb. 23; Gaz. vol. 211; p. 1071.
- Power-transmission mechanism, Variable-speed. N. R. Urie. No. 1,160,216; Nov. 16; Gaz. vol. 220; p. 720.
- Power transmission, Multiple-disk. C. McLaren. No. 1,157,238; Oct. 19; Gaz. vol. 219; p. 724.
- Power, Transmission of. C. L. Scott. No. 1,164,410; Dec. 14; Gaz. vol. 221; p. 631.

- Power transmission, Rotary-piston. C. R. Pratt. No. 1,137,283; Apr. 27; Gaz. vol. 213; p. 1257.
- Power-transmission safety device. H. B. Dierdorff. No. 1,156,397; Oct. 12; Gaz. vol. 219; p. 399.
- Power-transmission system. W. Morrison. No. 1,126,059; Jan. 26; Gaz. vol. 210; p. 1122.
- Power-transmission system. W. Morrison. No. 1,148,788; Aug. 3; Gaz. vol. 217; p. 110.
- Power-transmission system. E. A. Sperry. No. 1,136,058; Apr. 20; Gaz. vol. 213; p. 781.
- Power-transmission system, Centrifugally-regulated. W. Morrison. No. 1,126,060; Jan. 26; Gaz. vol. 210; p. 1122.
- Power-transmission system, Electric. J. R. Markle. No. 1,139,882; May 18; Gaz. vol. 214; p. 834.
- Power transmission, Variable-speed. J. G. P. Thomas. No. 1,165,038; Dec. 21; Gaz. vol. 221; p. 891.
- Power-transmitter. L. H. Brinkman. No. 1,152,001; Aug. 31; Gaz. vol. 217; p. 1501.
- Power-transmitter. A. H. De Voe. No. 1,163,980; Dec. 14; Gaz. vol. 221; p. 481.
- Power transmitter, Fluid. T. D. W. Pinckney. No. 1,125,593; Jan. 19; Gaz. vol. 210; p. 922.
- Power transmitting and controlling mechanism. A. Sundh. No. 1,134,770; Apr. 6; Gaz. vol. 213; p. 252.
- Power-transmitting apparatus. W. H. Hungerford. No. 1,155,314; Sept. 28; Gaz. vol. 218; p. 1126.
- Power-transmitting apparatus for vehicles, Fluid. H. N. Norton. No. 1,157,415; Oct. 19; Gaz. vol. 219; p. 788.
- Power-transmitting device. E. E. Butler. No. 1,149,339; Aug. 10; Gaz. vol. 217; p. 408.
- Power-transmitting device. F. A. Foster and C. S. Rockwell. No. 1,149,040; Aug. 3; Gaz. vol. 217; p. 196.
- Power-transmitting device. M. L. Severy. No. 1,136,279; Apr. 20; Gaz. vol. 213; p. 859.
- Power-transmitting device. R. M. Van Slyke. No. 1,125,774; Jan. 19; Gaz. vol. 210; p. 988.
- Power-transmitting mechanism. H. L. Brown. No. 1,149,625; Aug. 10; Gaz. vol. 217; p. 512.
- Power-transmitting mechanism. H. L. Brown. No. 1,149,717; Aug. 10; Gaz. vol. 217; p. 543.
- Power-transmitting mechanism. W. Grunow, Jr. No. 1,165,091; Dec. 21; Gaz. vol. 221; p. 909.
- Power-transmitting mechanism. W. Grunow, Jr. No. 1,165,092; Dec. 21; Gaz. vol. 221; p. 910.
- Power-transmitting mechanism. C. F. Henry. No. 1,148,383; July 27; Gaz. vol. 216; p. 1264.
- Power-transmitting mechanism. J. S. Hunter. No. 1,136,137; Apr. 20; Gaz. vol. 213; p. 809.
- Power-transmitting mechanism. J. Kiewicz. No. 1,160,986; Nov. 16; Gaz. vol. 220; p. 993.
- Power-transmitting mechanism. O. L. Olen. No. 1,163,846; Dec. 14; Gaz. vol. 221; p. 436.
- Power-transmitting mechanism. S. T. Simmons. No. 1,155,284; Sept. 28; Gaz. vol. 218; p. 1115.
- Power-transmitting mechanism. A. Swanson. No. 1,128,545; Feb. 16; Gaz. vol. 211; p. 748.
- Power-transmitting mechanism. M. A. Yeakley. No. 1,145,451; July 6; Gaz. vol. 216; p. 167.
- Power, Utilizing variable. W. and J. A. Snee, Jr. No. 1,131,435; Mar. 9; Gaz. vol. 212; p. 586.
- Precious-metal ores for extracting their values, Treatment of. E. L. Dufourcq. No. 1,133,110; Mar. 23; Gaz. vol. 212; p. 1276.
- Precious metals, Apparatus for extracting. V. I. Zachert and P. A. Brangier. No. 1,160,485; Nov. 16; Gaz. vol. 220; p. 814.
- Precious metals, Apparatus for the recovery of. B. R. Koering. No. 1,163,828; Dec. 14; Gaz. vol. 221; p. 429.
- Precious stones, &c., Forming settings for. S. N. Stone. No. 1,157,598; Oct. 19; Gaz. vol. 219; p. 847.
- Precipitating apparatus. H. R. Conklin. No. 1,160,850; Nov. 16; Gaz. vol. 220; p. 945.
- Precipitation. H. R. Conklin. No. 1,160,849; Nov. 16; Gaz. vol. 220; p. 945.
- Precipitation device. B. R. Koering. No. 1,163,829; Dec. 14; Gaz. vol. 221; p. 430.
- Precipitation-tank. W. L. Morris. No. 1,129,893; Mar. 2; Gaz. vol. 212; p. 21.
- Preheater. S. H. Tacy. No. 1,153,273; Sept. 14; Gaz. vol. 218; p. 358.
- Preheater. G. H. Wilson. (Reissue.) No. 13,868; Jan. 12; Gaz. vol. 210; p. 691.
- Preheating device. G. Van Daam. No. 1,155,112; Sept. 28; Gaz. vol. 218; p. 1061.
- Preheating device. G. Van Daam. No. 1,155,113; Sept. 28; Gaz. vol. 218; p. 1061.
- Prepay service-station. F. F. H. V., and R. F. Main. No. 1,150,139; Aug. 17; Gaz. vol. 217; p. 756.
- Prepayment mechanism. J. B. Kaighn. No. 1,159,227; Nov. 2; Gaz. vol. 220; p. 284.
- Preservative, Treating materials with liquid. H. S. Loud. No. 1,147,635; July 20; Gaz. vol. 216; p. 972.
- Preservative, Treating porous bodies with liquid. H. S. Loud. No. 1,151,205; Aug. 24; Gaz. vol. 217; p. 1183.
- Preserving and like can, Food. W. A. Davidson. No. 1,128,231; Feb. 9; Gaz. vol. 211; p. 589.
- Preserving and transporting fruit and other edibles. C. Blagburn. No. 1,128,936; Feb. 16; Gaz. vol. 211; p. 885.
- Preserving by vacuum, Apparatus for. J. R. Werth. No. 1,145,395; July 6; Gaz. vol. 216; p. 146.
- Preserving comestibles. A. J. A. Ottesen. No. 1,129,716; Feb. 23; Gaz. vol. 211; p. 1189.
- Preserving food products, Method and means for. B. W. Tucker. No. 1,161,550; Nov. 23; Gaz. vol. 220; p. 1240.
- Preserving fruit peels and rinds by impregnation with sugar. G. O. Penn. No. 1,145,633; July 6; Gaz. vol. 216; p. 123.
- Preserving-jar. A. H. Kerr. No. 1,152,107; Aug. 31; Gaz. vol. 217; p. 1538.
- Preserving organic material. R. D. Elliott. No. 1,126,430; Jan. 26; Gaz. vol. 210; p. 1255.
- Preserving perishable articles, Packing means for. E. R. Gill. No. 1,139,359; May 11; Gaz. vol. 214; p. 612.
- Preserving potatoes and other vegetables. F. W. Haussermann. No. 1,149,914; Aug. 10; Gaz. vol. 217; p. 615.
- Preserving shelled peas and similar vegetables, Temporarily. C. H. Plummer. No. 1,164,861; Dec. 21; Gaz. vol. 221; p. 830.
- Press: See—
- Arbor-press. Lever-press.
- Bale-forming press. Link-press.
- Baling-press. Mandrel-press.
- Box-press. Metal-forming press.
- Briquetting-press. Molding-press.
- Broom-press. Necktie-press.
- Cigar-mold press. Pot-press.
- Concrete-press. Power-press.
- Cotton-press. Printing-press.
- Cuff-press. Punch-press.
- Die-press. Racket-press.
- Drawing-press. Ram-press.
- Drill-press. Saddle-press.
- Filter-press. Screw-press.
- Fluid-molding press. Seal-press.
- Fruit-press. Seed-press.
- Garbage-press. Shingle-press.
- Hat-press. Sole-press.
- Hay-press. Stamping-press.
- Heel-press. Tobacco-press.
- Hose-billing press. Toy brick-press.
- Household-press. Trousers-press.
- Hydraulic press. Tube-making press.
- Ironing-press. Vulcanizer-press.
- Juice-extracting press. Wheel-press.
- Krout-press.
- Press. J. A. Campbell. No. 1,149,025; Aug. 3; Gaz. vol. 217; p. 191.
- Press. W. H. and W. W. Chapman. No. 1,139,845; May 18; Gaz. vol. 214; p. 821.
- Press. L. O. Conduitt. No. 1,131,212; Mar. 9; Gaz. vol. 212; p. 510.
- Press. J. H. Crowell. No. 1,148,445; July 27; Gaz. vol. 216; p. 1283.
- Press. O. Karcher. No. 1,131,142; Mar. 9; Gaz. vol. 212; p. 485.
- Press. E. T. Meakin. No. 1,135,309; Apr. 13; Gaz. vol. 213; p. 478.
- Press. A. S. Morris. No. 1,143,849; June 22; Gaz. vol. 215; p. 1066.
- Press. A. S. Morris. No. 1,153,638; Sept. 14; Gaz. vol. 218; p. 490.
- Press. J. Nešerfil. No. 1,129,001; Feb. 16; Gaz. vol. 211; p. 907.
- Press. H. J. and A. Phillips. No. 1,149,537; Aug. 10; Gaz. vol. 217; p. 477.
- Press. G. R. Schueler. No. 1,152,919; Sept. 7; Gaz. vol. 218; p. 198.
- Press-board, Collapsible. C. L. Sheehan. No. 1,161,794; Nov. 23; Gaz. vol. 220; p. 1323.
- Press-button. A. Mann. No. 1,128,341; Feb. 16; Gaz. vol. 211; p. 678.
- Press-buttons, Machine for the production and insertion of springs in. F. Marjanko and M. Gruschka. No. 1,128,473; Feb. 16; Gaz. vol. 211; p. 723.
- Press brake, Platen. W. E. Hamilton and G. T. Nyhagen. No. 1,123,279; Jan. 5; Gaz. vol. 210; p. 26.
- Press for compressing and baling cotton and other materials. A. E. Cummins. No. 1,147,215; July 20; Gaz. vol. 216; p. 825.
- Press-guard. D. D. Evans. No. 1,129,858; Mar. 2; Gaz. vol. 212; p. 9.
- Press having revolving pressing-surfaces. M. Johansen. No. 1,140,683; May 25; Gaz. vol. 214; p. 1149.
- Press-plate. G. W. Ehrhardt and M. Schiavon. No. 1,129,181; Feb. 23; Gaz. vol. 211; p. 1006.
- Press safety attachment. W. A. Hancock. No. 1,128,779; Feb. 16; Gaz. vol. 211; p. 827.
- Press stop mechanism. C. T. Bullock. No. 1,131,597; Mar. 9; Gaz. vol. 212; p. 642.
- Press-vat. E. Bloch-Pimentel. No. 1,135,757; Apr. 13; Gaz. vol. 213; p. 636.
- Presses and the like, Automatic feed for. B. S. Redd. No. 1,123,594; Jan. 5; Gaz. vol. 210; p. 135.
- Presses, Gage for positioning sheets in embossing. A. W. Roovers. No. 1,163,464; Dec. 7; Gaz. vol. 221; p. 255.
- Presses, Guard for. J. J. Brophy and W. C. Roche. No. 1,145,346; July 6; Gaz. vol. 216; p. 128.
- Presses or the like, Automatic stop mechanism for. W. J. Kent. No. 1,139,773; May 18; Gaz. vol. 214; p. 795.
- Presses, Paper-gripper for job. H. B. Anway. No. 1,163,305; Dec. 7; Gaz. vol. 221; p. 200.

Alphabetical list of inventions—Continued.

- Presses, Pneumatic feeder for. J. Duvall. No. 1,164,585; Dec. 14; Gaz. vol. 221; p. 690.
- Presses, Safety device for. A. H. Benton. No. 1,125,257; Jan. 19; Gaz. vol. 210; p. 804.
- Presses, Safety device for. F. Graffenberger. No. 1,138,374; May 4; Gaz. vol. 214; p. 230.
- Presses, Safety device for. B. Levi. No. 1,155,745; Oct. 5; Gaz. vol. 219; p. 145.
- Presses, Safety device for. B. Levi. No. 1,155,746; Oct. 5; Gaz. vol. 219; p. 146.
- Presses, Transmission for. C. Ambrette. No. 1,163,304; Dec. 7; Gaz. vol. 221; p. 199.
- Presser-foot. J. Callahan. No. 1,154,373; Sept. 21; Gaz. vol. 218; p. 780.
- Presser-foot. W. H. Paton. No. 1,127,274; Feb. 2; Gaz. vol. 211; p. 214.
- Presser-foot. R. G. Woodward. No. 1,135,421; Apr. 13; Gaz. vol. 213; p. 517.
- Presser-foot-lifting mechanism. A. A. Merritt. No. 1,134,477; Apr. 6; Gaz. vol. 213; p. 144.
- Presser-foot mechanism. H. A. Ballard. No. 1,139,626; May 18; Gaz. vol. 214; p. 743.
- Pressing and steaming device, Garment. A. N. Rosenbloom. No. 1,157,586; Oct. 19; Gaz. vol. 219; p. 844.
- Pressing apparatus. J. J. Berrigan. No. 1,130,878; Mar. 9; Gaz. vol. 212; p. 396.
- Pressing apparatus. J. J. Berrigan. No. 1,131,032; Mar. 9; Gaz. vol. 212; p. 448.
- Pressing apparatus, Clothes-. A. J. Hoffman. No. 1,130,902; Mar. 9; Gaz. vol. 212; p. 404.
- Pressing-board. F. C. Ramlow. No. 1,154,726; Sept. 28; Gaz. vol. 218; p. 927.
- Pressing-cloth. R. Bass. No. 1,159,156; Nov. 2; Gaz. vol. 220; p. 258.
- Pressing device. C. O. Barnes. No. 1,141,680; June 1; Gaz. vol. 215; p. 211.
- Pressing glass, Apparatus for. M. A. Ross. No. 1,149,987; Aug. 10; Gaz. vol. 217; p. 641.
- Pressing-machine. E. A. Clements. No. 1,153,289; Sept. 14; Gaz. vol. 218; p. 364.
- Pressing-machine. D. M. Cooper. No. 1,139,346; May 11; Gaz. vol. 214; p. 607.
- Pressing-machine. L. Rosenbaum. No. 1,128,520; Feb. 16; Gaz. vol. 211; p. 739.
- Pressing machine, Garment-. F. Dunbar and J. H. Jones. No. 1,131,493; Mar. 9; Gaz. vol. 212; p. 607.
- Pressing machine, Garment-. J. B. Spencer. No. 1,164,616; Dec. 14; Gaz. vol. 221; p. 701.
- Pressing machine, Steam garment-. T. D. Palmer. No. 1,154,790; Sept. 28; Gaz. vol. 218; p. 953.
- Pressure-applying device. W. S. Duwelius. No. 1,149,037; Aug. 3; Gaz. vol. 217; p. 195.
- Pressure-controller, Automatic. C. S. Jennings. No. 1,132,777; Mar. 23; Gaz. vol. 212; p. 1155.
- Pressure-controlling apparatus. W. A. Doble. No. 1,127,968; Feb. 9; Gaz. vol. 211; p. 498.
- Pressure developing and driven tool. A. Palmros. No. 1,155,264; Sept. 28; Gaz. vol. 218; p. 1109.
- Pressure device, Safety. W. H. Walter. No. 1,127,128; Feb. 2; Gaz. vol. 211; p. 164.
- Pressure-engine. P. A. Peterson. No. 1,123,364; Jan. 5; Gaz. vol. 210; p. 58.
- Pressure fluctuations, Device for damping. E. B. Crocker. No. 1,162,982; Dec. 7; Gaz. vol. 221; p. 86.
- Pressure-gage. J. A. Bowden. No. 1,152,276; Aug. 31; Gaz. vol. 217; p. 1596.
- Pressure-gage. F. Conrad. No. 1,150,016; Aug. 17; Gaz. vol. 217; p. 712.
- Pressure-gage. J. C. Duncan. No. 1,127,745; Feb. 9; Gaz. vol. 211; p. 418.
- Pressure-gage. J. Shebol and W. F. Albrecht. No. 1,127,295; Feb. 2; Gaz. vol. 211; p. 222.
- Pressure-gage. J. A. Wesener. No. 1,143,338; June 15; Gaz. vol. 215; p. 866.
- Pressure-gage, Recording. B. B. Bristol. No. 1,161,376; Nov. 23; Gaz. vol. 220; p. 1179.
- Pressure, Generating and controlling. E. T. Young. No. 1,165,826; Dec. 28; Gaz. vol. 221; p. 1205.
- Pressure-generator. E. B. Porter. No. 1,132,381; Mar. 16; Gaz. vol. 212; p. 961.
- Pressure-indicating means. L. Badois. No. 1,165,833; Dec. 28; Gaz. vol. 221; p. 1207.
- Pressure-indicator. L. H. Cox. No. 1,148,361; July 27; Gaz. vol. 216; p. 1256.
- Pressure-indicator. J. A. Howe. No. 1,165,006; Dec. 21; Gaz. vol. 221; p. 880.
- Pressure mechanism, Mechanical. H. F. Bechman. No. 1,150,484; Aug. 17; Gaz. vol. 217; p. 877.
- Pressure-motor. H. C. Brehmer. No. 1,144,322; June 22; Gaz. vol. 215; p. 1233.
- Pressure-motor. F. W. Meyer and A. Stieb. No. 1,144,609; June 29; Gaz. vol. 215; p. 1358.
- Pressure-plate. A. Kästner and F. Stock. No. 1,125,552; Jan. 19; Gaz. vol. 210; p. 907.
- Pressure-regulator. E. C. Weisgerber and F. C. Leinroth. No. 1,166,027; Dec. 28; Gaz. vol. 221; p. 1274.
- Pressure-relation gage. E. G. Bailey. No. 1,153,413; Sept. 14; Gaz. vol. 218; p. 410.
- Pressure-relation gage. E. G. Bailey. No. 1,153,414; Sept. 14; Gaz. vol. 218; p. 411.
- Pressure-transmitting controller. F. E. and E. F. Mills. No. 1,136,478; Apr. 20; Gaz. vol. 213; p. 932.
- Presswork, Fountain-dividing equipment for multicolor. R. H. Dunnet. No. 1,165,160; Dec. 21; Gaz. vol. 221; p. 935.
- Pretzel cutter and roller. M. L. Davis and J. G. Robbins. No. 1,127,967; Feb. 9; Gaz. vol. 211; p. 498.
- Pretzel-machine. W. Ehrhart. No. 1,133,249; Mar. 23; Gaz. vol. 212; p. 1325.
- Pretzel-making machine. G. H. Schaezel. No. 1,142,533; June 8; Gaz. vol. 215; p. 546.
- Primary battery. H. Csanyi. No. 1,125,970; Jan. 26; Gaz. vol. 210; p. 1089.
- Primary battery. D. Elmes. No. 1,138,363; May 4; Gaz. vol. 214; p. 227.
- Primary battery. H. E. R. Little. No. 1,163,834; Dec. 14; Gaz. vol. 221; p. 432.
- Primary battery. A. L. Saltzman. No. 1,126,295; Jan. 26; Gaz. vol. 210; p. 1208.
- Primary battery. A. L. Saltzman. No. 1,155,512; Oct. 5; Gaz. vol. 219; p. 66.
- Prime mover. M. W. Johnson, Jr. No. 1,140,515; May 25; Gaz. vol. 214; p. 1092.
- Primer. C. Kaufmann. No. 1,164,357; Dec. 14; Gaz. vol. 221; p. 613.
- Primer. G. W. Sheppard. No. 1,147,193; July 20; Gaz. vol. 216; p. 815.
- Primer and sealer. H. M. Ashby. No. 1,164,324; Dec. 14; Gaz. vol. 221; p. 601.
- Primer and varnish and preparing same. A. Eichler. No. 1,133,432; Mar. 30; Gaz. vol. 212; p. 1427.
- Primer, decarbonizer, and air-valve, Combined. A. De Clairmont. No. 1,164,931; Dec. 21; Gaz. vol. 221; p. 834.
- Priming-cup. J. J. Aull. No. 1,154,683; Sept. 28; Gaz. vol. 218; p. 914.
- Priming-cup. O. A. Smith. No. 1,153,457; Sept. 14; Gaz. vol. 218; p. 426.
- Priming device. F. M. Furber. No. 1,152,722; Sept. 7; Gaz. vol. 218; p. 125.
- Priming device. M. G. Kopf. No. 1,148,693; Aug. 3; Gaz. vol. 217; p. 76.
- Print developing and drying machine, Blue-. W. M. Harris. No. 1,150,031; Aug. 17; Gaz. vol. 217; p. 717.
- Print-developing apparatus. T. W. Holcomb. No. 1,125,098; Jan. 19; Gaz. vol. 210; p. 746.
- Prints on fabrics, Obtaining. O. Neuberger. No. 1,135,043; Apr. 13; Gaz. vol. 213; p. 388.
- Prints, Producing raised dull-finish. A. J. Nemec. No. 1,123,917; Jan. 5; Gaz. vol. 210; p. 245.
- Prints, Production of fast-colored. H. Levinstein. No. 1,157,705; Oct. 26; Gaz. vol. 219; p. 950.
- Printed and embossed sheets, Producing. G. W. King. No. 1,143,767; June 22; Gaz. vol. 215; p. 1038.
- Printed and slip sheet separating apparatus. H. A. W. Wood. No. 1,162,895; Dec. 7; Gaz. vol. 221; p. 56.
- Printed matter, Apparatus for producing raised. S. Lipsius. No. 1,144,303; June 22; Gaz. vol. 215; p. 1227.
- Printed sheets, Antismut web for. C. P. Cottrell. No. 1,156,669; Oct. 12; Gaz. vol. 219; p. 495.
- Printer and cash-register, Check-. B. B. Wells. No. 1,156,955; Oct. 19; Gaz. vol. 219; p. 623.
- Printer, Ticket-. P. Dodge. No. 1,140,804; May 25; Gaz. vol. 214; p. 1189.
- Printers, Adding attachment for check-. E. Ocumpaugh, 2d. No. 1,134,551; Apr. 6; Gaz. vol. 213; p. 171.
- Printers' and like blocks, Mount for. P. R. Blackmore. No. 1,164,329; Dec. 14; Gaz. vol. 221; p. 603.
- Printer's blanket. J. S. Healy. No. 1,147,942; July 27; Gaz. vol. 216; p. 1106.
- Printer's blanket. G. Palmer. No. 1,147,969; July 27; Gaz. vol. 216; p. 1115.
- Printer's catch or registering means. A. R. Warren and A. F. Bals. No. 1,137,816; May 4; Gaz. vol. 214; p. 33.
- Printer's chase. P. S. Bolles. No. 1,144,458; June 29; Gaz. vol. 215; p. 1308.
- Printer's form. F. C. Leethem. No. 1,129,579; Feb. 23; Gaz. vol. 211; p. 1145.
- Printer's furniture. E. F. W. Kaiser. No. 1,128,000; Feb. 9; Gaz. vol. 211; p. 509.
- Printers' furniture, Machine for washing. F. W. Steiner. No. 1,156,563; Oct. 12; Gaz. vol. 219; p. 456.
- Printer's furniture, Self-adjustable marginal. H. E. Streebig. No. 1,126,910; Feb. 2; Gaz. vol. 211; p. 86.
- Printer's galley. A. S. Orchard. No. 1,142,200; June 8; Gaz. vol. 215; p. 428.
- Printer's galley. T. W. Suddard. No. 1,126,913; Feb. 2; Gaz. vol. 211; p. 87.
- Printer's galley, Adjustable. J. O. Ostman. No. 1,159,260; Nov. 2; Gaz. vol. 220; p. 296.
- Printer's galley-lock. E. Weitzel. No. 1,140,728; May 25; Gaz. vol. 214; p. 1163.
- Printers' galleys, Appliance for indicating or correcting errors in. T. Burden and E. A. Martin. No. 1,128,221; Feb. 9; Gaz. vol. 211; p. 585.
- Printers' galleys, Appliance for indicating or correcting errors in. T. Burden and E. A. Martin. No. 1,128,222; Feb. 9; Gaz. vol. 211; p. 586.
- Printer's ink-knife. L. C. Hay. No. 1,130,281; Mar. 2; Gaz. vol. 212; p. 153.
- Printer's make-up device. F. W. Lake. No. 1,142,105; June 8; Gaz. vol. 215; p. 396.
- Printer's miter-gage. P. Embser. No. 1,157,372; Oct. 19; Gaz. vol. 219; p. 772.

- Printers' rollers. Manufacture of. S. Crump. No. 1,141,320; June 1; Gaz. vol. 215; p. 83.
- Printer's sheet-receptacle. J. F. Jirousek. No. 1,144,133; June 22; Gaz. vol. 215; p. 1167.
- Printing. G. R. Cornwall. No. 1,124,594; Jan. 12; Gaz. vol. 210; p. 532.
- Printing. C. W. Howell, Jr. No. 1,130,404; Mar. 2; Gaz. vol. 212; p. 196.
- Printing addresses. Machine for. A. H. Bates. No. 1,151,557; Aug. 31; Gaz. vol. 217; p. 1348.
- Printing an enlargement from a negative-film. Means for. H. E. Leash and J. L. Schwenk. No. 1,138,963; May 11; Gaz. vol. 214; p. 474.
- Printing and addressing machine. D. C. Hughes. No. 1,151,950; Aug. 31; Gaz. vol. 217; p. 1482.
- Printing and cutting machine. H. H. E. R. Tiedemann. No. 1,144,924; June 29; Gaz. vol. 215; p. 1466.
- Printing and folding newspapers. Apparatus for. J. A. Boyce. No. 1,149,621; Aug. 10; Gaz. vol. 217; p. 509.
- Printing and folding papers. Apparatus for. J. A. Boyce. No. 1,149,620; Aug. 10; Gaz. vol. 217; p. 509.
- Printing and lithographing machines. Bronzing and dusting attachment for. C. Soutter. No. 1,149,413; Aug. 10; Gaz. vol. 217; p. 433.
- Printing and marking machine. E. Woodward. No. 1,125,428; Jan. 19; Gaz. vol. 210; p. 866.
- Printing and marking machines. Inking device for. E. Woodward. No. 1,138,711; May 11; Gaz. vol. 214; p. 384.
- Printing and similar machines. Gripper mechanism for. W. B. Story. No. 1,123,619; Jan. 5; Gaz. vol. 210; p. 144.
- Printing apparatus. M. Eldot and J. M. Danzig. No. 1,124,402; Jan. 12; Gaz. vol. 210; p. 461.
- Printing apparatus. S. Lipsius. No. 1,149,455; Aug. 10; Gaz. vol. 217; p. 448.
- Printing apparatus. G. W. Merrill. No. 1,125,148; Jan. 19; Gaz. vol. 210; p. 763.
- Printing apparatus. J. Sonne-Hansen. No. 1,147,760; July 27; Gaz. vol. 216; p. 1041.
- Printing apparatus. C. G. Tiefel and L. M. Todd. (Re-issue.) No. 13,958; Aug. 3; Gaz. vol. 217; p. 241.
- Printing apparatus. W. Wright. No. 1,152,587; Sept. 7; Gaz. vol. 218; p. 77.
- Printing apparatus. Blue. R. Herman. No. 1,147,693; July 20; Gaz. vol. 216; p. 991.
- Printing apparatus for roll-paper. J. I. Leary. No. 1,164,730; Dec. 21; Gaz. vol. 221; p. 782.
- Printing apparatus. Individual-letter. W. Wright. No. 1,135,243; Apr. 13; Gaz. vol. 213; p. 454.
- Printing apparatus. Individual-letter. W. Wright. No. 1,152,588; Sept. 7; Gaz. vol. 218; p. 78.
- Printing apparatus. Planographic. G. R. Cornwall. No. 1,127,736; Feb. 9; Gaz. vol. 211; p. 415.
- Printing-blanket. F. E. Ellis. No. 1,158,033; Oct. 26; Gaz. vol. 219; p. 1065.
- Printing-block. A. C. Knight. No. 1,123,552; Jan. 5; Gaz. vol. 210; p. 121.
- Printing-block system. G. E. McCabe. No. 1,152,827; Sept. 7; Gaz. vol. 218; p. 165.
- Printing by lithography. J. Ray. No. 1,129,901; Mar. 2; Gaz. vol. 212; p. 24.
- Printing card and type holder. E. H. Frey. No. 1,149,570; Aug. 10; Gaz. vol. 217; p. 488.
- Printing cinematograph-films. Apparatus for. J. E. Thornton. No. 1,158,587; Nov. 2; Gaz. vol. 220; p. 63.
- Printing cinematograph-films. Apparatus for. J. E. Thornton. No. 1,160,671; Nov. 16; Gaz. vol. 220; p. 883.
- Printing circular letters and addressing envelopes. Machine for. D. O. Royster. No. 1,161,253; Nov. 23; Gaz. vol. 220; p. 1135.
- Printing device. G. B. Gavin. No. 1,158,478; Nov. 2; Gaz. vol. 220; p. 23.
- Printing device. E. Ocumpaugh, 2d. No. 1,151,963; Aug. 31; Gaz. vol. 217; p. 1488.
- Printing device. E. Ocumpaugh. No. 1,158,545; Nov. 2; Gaz. vol. 220; p. 49.
- Printing device for cash-registers or cash-delivery apparatus. F. Correll. No. 1,141,693; June 1; Gaz. vol. 215; p. 215.
- Printing diagrams for tailors' patterns. Device for. L. Alfano. No. 1,130,653; Mar. 2; Gaz. vol. 212; p. 283.
- Printing-die. C. H. Sampson. No. 1,135,053; Apr. 13; Gaz. vol. 213; p. 392.
- Printing-form-aligning apparatus. H. B. Rouse. No. 1,133,822; Mar. 30; Gaz. vol. 212; p. 1568.
- Printing-forms. Producing planographic. J. D. Morgan. No. 1,124,638; Jan. 12; Gaz. vol. 210; p. 548.
- Printing-frame. H. Eagerlund. No. 1,165,237; Dec. 21; Gaz. vol. 221; p. 962.
- Printing-frame. W. Johnson. No. 1,139,768; May 18; Gaz. vol. 214; p. 793.
- Printing-frame. E. W. Sweigard. No. 1,132,046; Mar. 16; Gaz. vol. 212; p. 839.
- Printing-frame. W. Westman. No. 1,144,014; June 22; Gaz. vol. 215; p. 1123.
- Printing-frame clamp. E. W. Sweigard. No. 1,146,974; July 20; Gaz. vol. 216; p. 740.
- Printing-frame. Vacuum-controlled. J. B. Levy. No. 1,126,796; Feb. 2; Gaz. vol. 211; p. 47.
- Printing. Intaglio. H. A. W. Wood. No. 1,140,860; May 25; Gaz. vol. 214; p. 1212.
- Printing late news in web-printing presses or for other purposes. Apparatus for. T. R. G. Parker. No. 1,160,444; Nov. 16; Gaz. vol. 220; p. 799.
- Printing. Lithographic plate for offset and direct. J. Grass. No. 1,155,352; Oct. 5; Gaz. vol. 219; p. 10.
- Printing-machine. A. H. Adams. No. 1,128,649; Feb. 16; Gaz. vol. 211; p. 783.
- Printing-machine. M. O. Anthony. No. 1,156,966; Oct. 19; Gaz. vol. 219; p. 627.
- Printing-machine. L. P. Drake and C. E. Cann. No. 1,124,309; Jan. 12; Gaz. vol. 210; p. 428.
- Printing-machine. J. S. Duncan. No. 1,125,499; Jan. 19; Gaz. vol. 210; p. 889.
- Printing-machine. W. S. Eaton. No. 1,147,152; July 20; Gaz. vol. 216; p. 801.
- Printing-machine. S. O. Edmonds. No. 1,126,622; Jan. 26; Gaz. vol. 210; p. 1327.
- Printing-machine. N. E. Funk. No. 1,123,724; Jan. 5; Gaz. vol. 210; p. 179.
- Printing-machine. A. E. K. G. Hartmann. No. 1,132,844; Mar. 23; Gaz. vol. 212; p. 1181.
- Printing-machine. C. A. Kellogg. No. 1,153,315; Sept. 14; Gaz. vol. 218; p. 373.
- Printing-machine. J. F. Mahlstedt. No. 1,130,991; Mar. 9; Gaz. vol. 212; p. 434.
- Printing-machine. J. F. Mahlstedt. No. 1,137,157; Apr. 27; Gaz. vol. 213; p. 1211.
- Printing-machine. J. F. Mahlstedt. No. 1,160,185; Nov. 16; Gaz. vol. 220; p. 710.
- Printing-machine. F. C. Marquardt. No. 1,132,481; Mar. 16; Gaz. vol. 212; p. 998.
- Printing-machine. F. Meisel. No. 1,144,944; June 29; Gaz. vol. 215; p. 1473.
- Printing-machine. I. F. Niles. No. 1,155,505; Oct. 5; Gaz. vol. 219; p. 64.
- Printing-machine. E. Ocumpaugh, 2d. No. 1,138,778; May 11; Gaz. vol. 214; p. 409.
- Printing-machine. E. Ocumpaugh, 2d. No. 1,148,984; Aug. 3; Gaz. vol. 217; p. 177.
- Printing-machine. E. Ocumpaugh, 2d. No. 1,154,050; Sept. 21; Gaz. vol. 218; p. 668.
- Printing-machine. E. Ocumpaugh, 2d. No. 1,161,071; Nov. 23; Gaz. vol. 220; p. 1067.
- Printing-machine. O. Roesen. No. 1,132,215; Mar. 16; Gaz. vol. 212; p. 900.
- Printing-machine. C. H. Sampson. No. 1,141,270; June 1; Gaz. vol. 215; p. 64.
- Printing-machine. L. A. Schmidt. No. 1,136,371; Apr. 20; Gaz. vol. 213; p. 893.
- Printing-machine. J. M. Schütz. No. 1,132,623; Mar. 23; Gaz. vol. 212; p. 1098.
- Printing-machine. E. P. Sheldon. No. 1,132,220; Mar. 16; Gaz. vol. 212; p. 902.
- Printing-machine. W. Spalckhauser. No. 1,156,378; Oct. 12; Gaz. vol. 219; p. 391.
- Printing-machine. J. White. No. 1,137,299; Apr. 27; Gaz. vol. 213; p. 1263.
- Printing machine. Block. G. Prifold. No. 1,145,794; July 6; Gaz. vol. 216; p. 287.
- Printing machine. Block. W. H. Waldron. No. 1,145,821; July 6; Gaz. vol. 216; p. 296.
- Printing machine. Block. W. H. Waldron. No. 1,159,301; Nov. 2; Gaz. vol. 220; p. 310.
- Printing machine. Blue. E. T. Cope. No. 1,134,589; Apr. 6; Gaz. vol. 213; p. 185.
- Printing machine. Check. E. Ocumpaugh. No. 1,160,643; Nov. 16; Gaz. vol. 220; p. 872.
- Printing machine. Color. H. Pervilhac. No. 1,134,697; Apr. 6; Gaz. vol. 213; p. 224.
- Printing machine. Duplicate. J. M. Schutz. No. 1,132,624; Mar. 23; Gaz. vol. 212; p. 1099.
- Printing machine. Fabric. M. Dupuis. No. 1,153,045; Sept. 7; Gaz. vol. 218; p. 241.
- Printing machine. Fabric. M. Dupuis. No. 1,153,046; Sept. 7; Gaz. vol. 218; p. 242.
- Printing-machine feed mechanism. E. Ocumpaugh. No. 1,160,644; Nov. 16; Gaz. vol. 220; p. 873.
- Printing machine. Flat-bed web. T. Cossar. No. 1,147,707; July 27; Gaz. vol. 216; p. 1023.
- Printing machine. Flat-bed web. T. Cossar. No. 1,149,501; Aug. 10; Gaz. vol. 217; p. 463.
- Printing-machine folding mechanism. C. A. Kellogg. No. 1,164,819; Dec. 21; Gaz. vol. 221; p. 815.
- Printing-machine ink-fountain. J. J. Halliwell. No. 1,137,856; May 4; Gaz. vol. 214; p. 46.
- Printing-machine ink-rolls. E. Ocumpaugh. No. 1,139,710; May 18; Gaz. vol. 214; p. 774.
- Printing-machine. Multigraph. W. W. Rowley, Jr., and W. T. Brown. No. 1,130,199; Mar. 2; Gaz. vol. 212; p. 125.
- Printing machine. Offset. W. H. Banzett. No. 1,162,739; Dec. 7; Gaz. vol. 221; p. 3.
- Printing machine. Post-card. H. Blair. No. 1,131,657; Mar. 16; Gaz. vol. 212; p. 697.
- Printing machine. Relief and intaglio. H. A. W. Wood. No. 1,123,455; Jan. 5; Gaz. vol. 210; p. 88.
- Printing-machine. Rotary. R. P. Payne. No. 1,148,120; July 27; Gaz. vol. 216; p. 1171.
- Printing machine. Rotary sheet. H. M. Barber. No. 1,152,068; Aug. 31; Gaz. vol. 217; p. 1525.
- Printing machine. Rotary sheet. H. M. Barber. No. 1,152,069; Aug. 31; Gaz. vol. 217; p. 1525.

Alphabetical list of inventions—Continued.

- Printing-machine safety-guard. L. E. Morrison. No. 1,156,423; Oct. 12; Gaz. vol. 219; p. 408.
- Printing-machine safety-guard. L. E. Morrison. No. 1,158,069; Oct. 26; Gaz. vol. 219; p. 1078.
- Printing-machine sheet-delivery apparatus. H. M. Barber. No. 1,159,638; Nov. 9; Gaz. vol. 220; p. 462.
- Printing-machine sheet-delivery mechanism. Rotary. H. M. Barber. No. 1,147,697; July 27; Gaz. vol. 216; p. 1019.
- Printing machine, Transfer-. R. E. Kimball. No. 1,140,748; May 25; Gaz. vol. 214; p. 1171.
- Printing machine, Web-. R. Hoe. No. 1,161,476; Nov. 23; Gaz. vol. 220; p. 1213.
- Printing machine, Web-. G. E. Pancoast. No. 1,147,812; July 27; Gaz. vol. 216; p. 1059.
- Printing machine, Web-. O. Roosen. No. 1,155,619; Oct. 5; Gaz. vol. 219; p. 101.
- Printing machine, Wrapping-paper-. R. L. Welch. No. 1,131,757; Mar. 16; Gaz. vol. 212; p. 733.
- Printing-machines, Adjusting device for pattern-cylinders of. H. J. Meyer. No. 1,159,243; Nov. 2; Gaz. vol. 220; p. 290.
- Printing-machines and the like, Pneumatic sheet-feeding apparatus for. F. Waite. No. 1,160,796; Nov. 16; Gaz. vol. 220; p. 926.
- Printing-machines, Cutting-block for. A. C. Samson and R. J. Prendergast. No. 1,147,817; July 27; Gaz. vol. 216; p. 1060.
- Printing machines, Inking and wiping device applicable to copper-plate-. R. G. F. Delahaye. No. 1,136,413; Apr. 20; Gaz. vol. 213; p. 909.
- Printing machines, Light-regulating device for film-. G. White. No. 1,154,820; Sept. 28; Gaz. vol. 218; p. 960.
- Printing machinery. M. A. McKee. No. 1,164,296; Dec. 14; Gaz. vol. 221; p. 590.
- Printing mechanism. M. H. Ballard. No. 1,162,016; Nov. 30; Gaz. vol. 220; p. 1448.
- Printing mechanism. C. P. Cottrell. No. 1,130,259; Mar. 2; Gaz. vol. 212; p. 145.
- Printing-pastes and producing same. J. Carstens. No. 1,126,387; Jan. 26; Gaz. vol. 210; p. 1240.
- Printing-plate. S. E. Jittman. No. 1,128,665; Feb. 16; Gaz. vol. 211; p. 789.
- Printing-plate. J. Tomlinson. No. 1,151,500; Aug. 24; Gaz. vol. 217; p. 1282.
- Printing-plate. J. Tomlinson. No. 1,151,501; Aug. 24; Gaz. vol. 217; p. 1282.
- Printing plate and tab. R. G. Griswold. No. 1,161,045; Nov. 23; Gaz. vol. 220; p. 1059.
- Printing-plate-casting machine. R. T. Johnston. No. 1,126,770; Feb. 2; Gaz. vol. 211; p. 37.
- Printing-plate, Embossed. W. B. Wait. No. 1,136,632; Apr. 20; Gaz. vol. 213; p. 985.
- Printing-plate for colored photo-engraving and producing the same. F. V. Walsh and C. M. Reed. No. 1,137,197; Oct. 19; Gaz. vol. 219; p. 709.
- Printing plate, Intaglio-. H. A. W. Wood. No. 1,125,244; Jan. 19; Gaz. vol. 210; p. 799.
- Printing-plate, Litho-grain-. F. Niemeyer. No. 1,163,166; Dec. 7; Gaz. vol. 221; p. 151.
- Printing-plate-making machine. N. Meyers. No. 1,147,335; July 20; Gaz. vol. 216; p. 864.
- Printing-plate-shaving machine. H. M. Barber. No. 1,126,344; Jan. 26; Gaz. vol. 210; p. 1226.
- Printing-plate, Stereotype. H. A. W. Wood. No. 1,150,474; Aug. 17; Gaz. vol. 217; p. 874.
- Printing-plates and printing in colors, Making. J. A. H. Hatt. No. 1,134,382; Apr. 6; Gaz. vol. 213; p. 109.
- Printing-plates, Apparatus for etching. A. H. Coombs. No. 1,147,145; July 20; Gaz. vol. 216; p. 799.
- Printing-plates for printing combined half-tone and printed type or line work, Producing combination. C. Blecher. No. 1,150,414; Aug. 17; Gaz. vol. 217; p. 852.
- Printing-plates, Machine for cooling stereotype. E. C. Collins. No. 1,138,731; May 11; Gaz. vol. 214; p. 392.
- Printing-plates, Machine for making stereotype. H. A. W. Wood. No. 1,164,607; Dec. 14; Gaz. vol. 221; p. 698.
- Printing-plates, Making. J. A. H. Hatt. No. 1,151,461; Aug. 24; Gaz. vol. 217; p. 1266.
- Printing-plates, Making. E. Leitner. No. 1,154,643; Sept. 28; Gaz. vol. 218; p. 900.
- Printing-plates, Making metal-surface litho-grain. F. Niemeyer. No. 1,163,167; Dec. 7; Gaz. vol. 221; p. 151.
- Printing-plates, Matrix for the production of. C. J. MacArthur. No. 1,128,022; Feb. 9; Gaz. vol. 211; p. 517.
- Printing-plates, Method of and apparatus for sizing curved stereotype. H. A. W. Wood. No. 1,134,800; Apr. 6; Gaz. vol. 213; p. 262.
- Printing-plates, Process and apparatus for making. J. A. H. Hatt. No. 1,151,460; Aug. 24; Gaz. vol. 217; p. 1266.
- Printing-plates, Producing. J. A. H. Hatt. No. 1,134,381; Apr. 6; Gaz. vol. 213; p. 108.
- Printing-plates, Producing. M. K. Hatt. No. 1,162,162; Nov. 30; Gaz. vol. 220; p. 1498.
- Printing-plates, Producing planographic. J. A. H. Hatt. No. 1,151,459; Aug. 24; Gaz. vol. 217; p. 1266.
- Printing-plates to the cylinders of printing-presses, Device for clamping. T. R. G. Parker and W. Lee. No. 1,158,269; Oct. 26; Gaz. vol. 219; p. 1146.
- Printing-press. J. B. Connell. No. 1,160,046; Nov. 9; Gaz. vol. 220; p. 607.
- Printing-press. S. Crump and A. W. Hilsinger. No. 1,154,002; Sept. 21; Gaz. vol. 218; p. 651.
- Printing-press. G. P. Fenner. No. 1,150,107; Aug. 17; Gaz. vol. 217; p. 744.
- Printing-press. S. B. Feuerstein. No. 1,125,995; Jan. 26; Gaz. vol. 210; p. 1098.
- Printing-press. K. E. Kirkman. No. 1,141,191; June 1; Gaz. vol. 215; p. 35.
- Printing-press. A. Krauth. No. 1,132,191; Mar. 16; Gaz. vol. 212; p. 891.
- Printing-press. T. R. G. Parker. No. 1,127,672; Feb. 9; Gaz. vol. 211; p. 390.
- Printing-press. G. W. Prouty. No. 1,131,268; Mar. 9; Gaz. vol. 212; p. 529.
- Printing-press. W. J. Ramsaier. No. 1,158,285; Oct. 26; Gaz. vol. 219; p. 1153.
- Printing-press. J. E. Rathbun. No. 1,162,650; Nov. 30; Gaz. vol. 220; p. 1661.
- Printing-press. J. D. Reifsnnyder and H. G. Schwerdtle. No. 1,164,212; Dec. 14; Gaz. vol. 221; p. 560.
- Printing-press. J. B. Replogle. No. 1,127,680; Feb. 9; Gaz. vol. 211; p. 393.
- Printing-press. H. L. Rutherford. No. 1,158,560; Nov. 2; Gaz. vol. 220; p. 54.
- Printing-press. B. D. Stevens. No. 1,145,936; July 13; Gaz. vol. 216; p. 355.
- Printing-press. C. A. Sturtevant. No. 1,146,290; July 13; Gaz. vol. 216; p. 480.
- Printing-press. J. M. Trier. No. 1,146,672; July 13; Gaz. vol. 216; p. 614.
- Printing-press. B. F. Upham. No. 1,128,390; Feb. 16; Gaz. vol. 211; p. 693.
- Printing-press. W. S. Warnock. No. 1,153,587; Sept. 14; Gaz. vol. 218; p. 473.
- Printing-press. T. Wensel. No. 1,148,470; July 27; Gaz. vol. 216; p. 1292.
- Printing-press. T. Wensel. No. 1,148,471; July 27; Gaz. vol. 216; p. 1292.
- Printing-press. C. White. No. 1,150,470; Aug. 17; Gaz. vol. 217; p. 872.
- Printing-press. J. White. No. 1,158,761; Nov. 2; Gaz. vol. 220; p. 123.
- Printing press adapting it to perfect. Rotary offset sheet-. T. R. G. Parker. No. 1,131,950; Mar. 16; Gaz. vol. 212; p. 804.
- Printing-press anti-offset device. C. Henderson. No. 1,160,892; Nov. 16; Gaz. vol. 220; p. 959.
- Printing-press attachment. J. E. Doyle. No. 1,164,998; Dec. 21; Gaz. vol. 221; p. 877.
- Printing-press attachment. A. L. Smith. No. 1,140,197; May 18; Gaz. vol. 214; p. 945.
- Printing-press attachment. T. Wensel. No. 1,148,469; July 27; Gaz. vol. 216; p. 1291.
- Printing-press, Automatic. E. O. Cartwright. No. 1,146,920; July 20; Gaz. vol. 216; p. 720.
- Printing-press bed-lock. S. W. Marvin. No. 1,147,334; July 20; Gaz. vol. 216; p. 864.
- Printing-press bronzing attachment. A. P. Brooks. No. 1,133,258; Mar. 30; Gaz. vol. 212; p. 1565.
- Printing press, Combined multicolor and perfecting web-. G. E. Pancoast. No. 1,138,782; May 11; Gaz. vol. 214; p. 410.
- Printing-press controller. C. E. Carpenter. No. 1,143,686; June 22; Gaz. vol. 215; p. 1011.
- Printing-press-controlling mechanism. J. J. Walser and C. A. Dresser. No. 1,157,740; Oct. 26; Gaz. vol. 219; p. 963.
- Printing-press cylinders, Blanket for. N. J. and F. J. Gauthier. No. 1,140,511; May 25; Gaz. vol. 214; p. 1091.
- Printing-press delivery mechanism. C. Henderson. No. 1,156,903; Oct. 19; Gaz. vol. 219; p. 605.
- Printing-press delivery mechanism. W. A. Pringle. No. 1,139,577; May 18; Gaz. vol. 214; p. 725.
- Printing-press delivery mechanism. B. D. Stevens. No. 1,156,940; Oct. 19; Gaz. vol. 219; p. 617.
- Printing-press delivery mechanism. J. H. E. Torlina and E. E. Wolf. No. 1,134,298; Apr. 6; Gaz. vol. 213; p. 79.
- Printing-press delivery mechanism. J. E. Tucker. No. 1,147,129; July 20; Gaz. vol. 216; p. 793.
- Printing-press delivery mechanism. Web-. F. M. Turck. No. 1,153,833; Sept. 14; Gaz. vol. 218; p. 559.
- Printing-press driving mechanism. R. Miehle. No. 1,157,888; Oct. 26; Gaz. vol. 219; p. 1014.
- Printing-press feed mechanism. C. M. Kneppler. No. 1,142,786; June 8; Gaz. vol. 215; p. 633.
- Printing-press front sheet-guide. C. J. Robertson. No. 1,161,251; Nov. 23; Gaz. vol. 220; p. 1134.
- Printing-press gage. J. Stivers. No. 1,163,481; Dec. 7; Gaz. vol. 221; p. 261.
- Printing-press guard. Platen-. M. Rockstroh. No. 1,135,399; Apr. 13; Gaz. vol. 213; p. 509.
- Printing-press, High-speed. M. Rockstroh. No. 1,149,688; Aug. 10; Gaz. vol. 217; p. 534.
- Printing-press ink-distributor. V. Fegley. No. 1,163,073; Dec. 7; Gaz. vol. 221; p. 118.
- Printing-press ink-distributing roller. J. W. Reeves. No. 1,154,727; Sept. 28; Gaz. vol. 218; p. 928.
- Printing-press ink-fountain. H. F. Bechman. No. 1,142,659; June 8; Gaz. vol. 215; p. 588.
- Printing-press ink-fountain. W. P. Delaney. No. 1,155,710; Oct. 5; Gaz. vol. 219; p. 134.

- Printing-press ink-mixing mechanism. C. H. Buettner. No. 1,142,019; June 8; Gaz. vol. 215; p. 865.
- Printing-press inking apparatus. W. H. Golding. No. 1,124,010; Jan. 5; Gaz. vol. 210; p. 276.
- Printing-press inking mechanism. J. Prince. No. 1,130,334; Mar. 2; Gaz. vol. 212; p. 171.
- Printing-press inking mechanism, Platen. M. Rockstroh. No. 1,139,584; May 18; Gaz. vol. 214; p. 728.
- Printing-press inking-rolls, Cooling and air-circulating means for. J. F. Jirousek. No. 1,134,744; Apr. 6; Gaz. vol. 213; p. 241.
- Printing-press, Multicolor-. F. M. Turck. No. 1,146,039; July 13; Gaz. vol. 216; p. 393.
- Printing-press offset mechanism. C. P. Cottrell. No. 1,148,010; July 27; Gaz. vol. 216; p. 1129.
- Printing-press or machine, Platen. W. Fullard and H. T. Quigley. No. 1,148,307; July 27; Gaz. vol. 216; p. 1235.
- Printing-press paper feeding, detecting, and rejecting device. M. M. Kandle. No. 1,145,840; July 6; Gaz. vol. 216; p. 303.
- Printing-press paper-guide. M. J. Garlick. No. 1,159,011; Nov. 2; Gaz. vol. 220; p. 208.
- Printing-press piling-table. F. E. Rich. No. 1,145,921; July 13; Gaz. vol. 216; p. 350.
- Printing-press plate-clamp. W. Evensen. No. 1,126,739; Feb. 2; Gaz. vol. 211; p. 26.
- Printing-press, Platen. M. Rockstroh. No. 1,137,790; May 4; Gaz. vol. 214; p. 24.
- Printing-press, Platen. M. Rockstroh. No. 1,157,807; Oct. 26; Gaz. vol. 219; p. 985.
- Printing-press, Platen. C. Wolstenholme. No. 1,130,232; Mar. 2; Gaz. vol. 212; p. 135.
- Printing-press roll-securing device. J. H. MeHon. No. 1,147,964; July 27; Gaz. vol. 216; p. 1113.
- Printing-press, Rotary. H. F. Bechman. No. 1,139,154; May 11; Gaz. vol. 214; p. 543.
- Printing-press, Rotary. W. K. Hodgman. No. 1,137,859; May 4; Gaz. vol. 214; p. 47.
- Printing-press, Rotary. E. R. Storm. No. 1,139,314; May 11; Gaz. vol. 214; p. 595.
- Printing-press safety device. W. H. Sylvester. No. 1,159,332; Nov. 2; Gaz. vol. 220; p. 320.
- Printing-press safety-guard. L. E. Morrison. No. 1,155,756; Oct. 5; Gaz. vol. 219; p. 149.
- Printing-press safety-guard. L. E. Morrison. No. 1,157,247; Oct. 19; Gaz. vol. 219; p. 728.
- Printing-press scoring attachment. E. L. Kinast. No. 1,144,139; June 22; Gaz. vol. 215; p. 1169.
- Printing-press sheet-delivery attachment. C. A. White. No. 1,141,356; June 1; Gaz. vol. 215; p. 268.
- Printing-press sheet-delivery mechanism. H. M. Barber. No. 1,146,916; July 20; Gaz. vol. 216; p. 719.
- Printing-press sheet-delivery mechanism. E. F. Dudley. No. 1,137,957; May 4; Gaz. vol. 214; p. 82.
- Printing-press sheet-registering device, Platen. H. Honigmann. No. 1,147,506; July 20; Gaz. vol. 216; p. 926.
- Printing-press tripping mechanism, Control of. H. Pearce, T. R. G. Parker, and F. W. Wright. No. 1,142,268; June 8; Gaz. vol. 215; p. 452.
- Printing-press, Tubular-plate. H. F. Bechman. No. 1,147,920; July 27; Gaz. vol. 216; p. 1098.
- Printing-press, Two-revolution reciprocating flat-bed. A. L. Colburn. No. 1,137,383; Apr. 27; Gaz. vol. 213; p. 1294.
- Printing-press-tympan bail. S. L. Howard. No. 1,150,767; Aug. 17; Gaz. vol. 217; p. 974.
- Printing-press, Web. F. M. Turck. No. 1,164,968; Dec. 21; Gaz. vol. 221; p. 866.
- Printing-presses and other machines, Feed mechanism for. L. Middleditch. No. 1,151,808; Aug. 31; Gaz. vol. 217; p. 1435.
- Printing-presses and similar machines, Suction device for automatic. A. Lagerman, Jr., and G. H. Lindström. No. 1,133,807; Mar. 30; Gaz. vol. 212; p. 1562.
- Printing-presses and the like, Feeding attachment for. R. E. Jones. No. 1,143,630; June 22; Gaz. vol. 215; p. 991.
- Printing-presses, &c., Apparatus for feeding paper to. I. I. Stone. No. 1,124,673; Jan. 12; Gaz. vol. 210; p. 561.
- Printing-presses, Apparatus for supplying paper to. C. D. Lyon. No. 1,148,242; July 27; Gaz. vol. 216; p. 1212.
- Printing-presses, Application of power to reciprocating-bed. R. Miehe. No. 1,143,425; June 15; Gaz. vol. 215; p. 898.
- Printing-presses, Automatic stop device for. J. W. R. Brown and G. S. Otey. No. 1,129,844; Mar. 2; Gaz. vol. 212; p. 4.
- Printing-presses, Color-printing attachment for. C. N. Galland. No. 1,131,228; Mar. 9; Gaz. vol. 212; p. 515.
- Printing-presses, Counter-block for. E. M. Lockwood. No. 1,127,045; Feb. 2; Gaz. vol. 211; p. 135.
- Printing-presses, Cylinder for rotary. W. L. Hamilton. No. 1,135,179; Apr. 13; Gaz. vol. 213; p. 434.
- Printing-presses, Gage-pin for tympan of platen. J. R. Grove. No. 1,138,863; May 11; Gaz. vol. 214; p. 440.
- Printing-presses, Paper-heater for. M. Clinton. No. 1,131,642; Mar. 9; Gaz. vol. 212; p. 660.
- Printing-presses, Plate-positioning means for. A. J. Connelly. No. 1,160,579; Nov. 16; Gaz. vol. 220; p. 848.
- Printing-presses, Pneumatic pad for. C. A. Sturtevant. No. 1,145,276; July 6; Gaz. vol. 216; p. 105.
- Printing-presses, Pressure-regulator for platen. M. Rockstroh. No. 1,147,046; July 20; Gaz. vol. 216; p. 765.
- Printing-presses, Sheet carrying and piling mechanism for. W. K. Hodgman. No. 1,135,454; Apr. 13; Gaz. vol. 213; p. 529.
- Printing-presses, Sheet-piling mechanism for. W. K. Hodgman. No. 1,140,157; May 18; Gaz. vol. 214; p. 931.
- Printing-presses, Stereotype-plate fastening for rotary cylinder. H. F. Bechman. No. 1,129,946; Mar. 2; Gaz. vol. 212; p. 39.
- Printing-presses, Type-turtle or fudge-bed for rotary. W. Loveland and H. E. Sloan. No. 1,134,340; Apr. 6; Gaz. vol. 213; p. 94.
- Printing-presses, Vibrating distributing-roller for. W. H. Golding. No. 1,124,009; Jan. 5; Gaz. vol. 210; p. 275.
- Printing-presses with a cylinder ink device, Means for driving the ink-cylinder in. G. H. Lindström. No. 1,159,691; Nov. 9; Gaz. vol. 220; p. 480.
- Printing process and product, Raised-. S. Lipsius. No. 1,146,182; July 13; Gaz. vol. 216; p. 443.
- Printing process applicable generally but more especially to bank-notes, bonds, &c. E. H. Farmer. No. 1,147,317; July 20; Gaz. vol. 216; p. 858.
- Printing, Raising. S. Lipsius. No. 1,158,065; Oct. 26; Gaz. vol. 219; p. 1076.
- Printing, registering, and issuing tickets, Apparatus for. P. Meyer. No. 1,143,424; June 15; Gaz. vol. 215; p. 898.
- Printing roll and making it, Multicolor-. E. T. Neben. No. 1,159,337; Nov. 2; Gaz. vol. 220; p. 322.
- Printing, Roll for holding metallic films for. E. H. and M. H. Swift. No. 1,150,156; Aug. 17; Gaz. vol. 217; p. 763.
- Printing-roller. C. M. Faerberbach. No. 1,135,783; Apr. 13; Gaz. vol. 213; p. 644.
- Printing-rollers, Means for cooling. D. E. Lynch. No. 1,153,398; Sept. 14; Gaz. vol. 218; p. 405.
- Printing-slugs, Means for controlling the pumps or the indenter of a machine for making. C. Muehleisen. No. 1,133,568; Mar. 30; Gaz. vol. 212; p. 1476.
- Printing-surface for color-printing. N. W. Turkin. No. 1,164,037; Dec. 14; Gaz. vol. 221; p. 502.
- Printing-surface holder. H. L. Borgersen. No. 1,124,104; Jan. 5; Gaz. vol. 210; p. 307.
- Printing-surface holder. H. L. Borgersen. No. 1,129,630; Feb. 23; Gaz. vol. 211; p. 1163.
- Printing-surfaces and printing-forms, Producing. G. R. Cornwall. No. 1,127,737; Feb. 9; Gaz. vol. 211; p. 416.
- Printing-surfaces, Preparation of photomechanical. J. G. Wood. No. 1,155,186; Sept. 23; Gaz. vol. 218; p. 1087.
- Printing surfaces, Reproducing intaglio-. H. A. W. Wood. No. 1,151,317; Aug. 24; Gaz. vol. 217; p. 1220.
- Printing surfaces, Reproducing intaglio-. H. A. W. Wood. No. 1,151,318; Aug. 24; Gaz. vol. 217; p. 1220.
- Printing tubes, Machine for. T. J. Buckley. No. 1,128,753; Feb. 16; Gaz. vol. 211; p. 818.
- Prism system, Separating-. O. Eppenstein. No. 1,142,755; June 8; Gaz. vol. 215; p. 620.
- Profile-turning, Automatic machine for. K. Jung. No. 1,152,641; Sept. 7; Gaz. vol. 218; p. 96.
- Projectile. J. B. Becker. No. 1,146,780; July 20; Gaz. vol. 216; p. 671.
- Projectile. S. D. Cushing. No. 1,159,653; Nov. 9; Gaz. vol. 220; p. 467.
- Projectile. G. Damer. No. 1,144,818; June 29; Gaz. vol. 215; p. 1432.
- Projectile. H. Dean. No. 1,132,455; Mar. 16; Gaz. vol. 212; p. 988.
- Projectile. F. O. Hoagland. No. 1,149,830; Aug. 10; Gaz. vol. 217; p. 584.
- Projectile. J. Karlik. No. 1,140,041; May 18; Gaz. vol. 214; p. 891.
- Projectile. J. Lobenat. No. 1,129,696; Feb. 23; Gaz. vol. 211; p. 1182.
- Projectile. R. Machenbach. No. 1,165,525; Dec. 28; Gaz. vol. 221; p. 1099.
- Projectile. A. O'Rawe. No. 1,136,480; Apr. 20; Gaz. vol. 213; p. 933.
- Projectile. W. K. Richardson. No. 1,141,415; June 1; Gaz. vol. 215; p. 118.
- Projectile. J. B. Semple. No. 1,131,164; Mar. 9; Gaz. vol. 212; p. 492.
- Projectile. J. J. Stoehr and F. H. Sauermann. No. 1,139,916; May 18; Gaz. vol. 214; p. 846.
- Projectile. C. F. Sullivan. No. 1,152,668; Sept. 7; Gaz. vol. 218; p. 107.
- Projectile. A. J. Victory. No. 1,151,070; Aug. 24; Gaz. vol. 217; p. 1136.
- Projectile, Armor-piercing. H. B. Strange. No. 1,149,602; Aug. 10; Gaz. vol. 217; p. 500.
- Projectile, Armor-piercing. H. B. Strange. No. 1,153,460; Sept. 14; Gaz. vol. 218; p. 427.
- Projectile, Armor-piercing. H. B. Strange. No. 1,166,093; Dec. 28; Gaz. vol. 221; p. 1298.
- Projectile, Artillery-. E. Rimailho. No. 1,154,437; Sept. 21; Gaz. vol. 218; p. 800.
- Projectile for air vessels. R. Machenbach. No. 1,142,827; June 15; Gaz. vol. 215; p. 685.

Alphabetical list of inventions—Continued.

- Projectile for destroying airships, balloons, and other aerostats. R. A. Featherstone-Smith and M. B. Cooper. No. 1,139,354; May 11; Gaz. vol. 214; p. 610.
- Projectile for ordnance. J. T. Parker. No. 1,149,679; Aug. 10; Gaz. vol. 217; p. 531.
- Projectile, Incendiary. L. Nixon. No. 1,153,513; Sept. 14; Gaz. vol. 218; p. 447.
- Projectile, Life-line. H. W. Broady. No. 1,142,396; June 8; Gaz. vol. 215; p. 498.
- Projectile-thrower. A. Beaty. No. 1,153,415; Sept. 14; Gaz. vol. 218; p. 412.
- Projectiles, Contour-base for. C. Davis. No. 1,141,042; May 25; Gaz. vol. 214; p. 1274.
- Projectiles, Contour-cap for. C. Davis. No. 1,135,772; Apr. 13; Gaz. vol. 213; p. 640.
- Projectiles, Contour-cap for. H. H. C. Dunwoody. No. 1,153,425; Sept. 14; Gaz. vol. 218; p. 415.
- Projectiles, Contour-cap for armor-piercing. C. Davis. No. 1,132,453; Mar. 16; Gaz. vol. 212; p. 987.
- Projectiles, Driving-band and nosing-press for. W. Yellowley. No. 1,162,841; Dec. 7; Gaz. vol. 221; p. 39.
- Projectiles, Exploding device for. W. J. Smith. No. 1,142,375; June 8; Gaz. vol. 215; p. 489.
- Projectiles, Making explosive. L. N. D. Mixsell. No. 1,162,183; Nov. 30; Gaz. vol. 220; p. 1506.
- Projectiles, Manufacture of armor-piercing. R. A. Hadfield, A. G. M. Jack, and I. B. Milne. No. 1,139,412; May 11; Gaz. vol. 214; p. 632.
- Projectiles, Means for securing wind-shields to caps of armor-piercing. J. P. Taylor. No. 1,130,446; Mar. 2; Gaz. vol. 212; p. 211.
- Projecting apparatus. N. F. Brink. No. 1,127,725; Feb. 9; Gaz. vol. 211; p. 411.
- Projecting apparatus. G. L. W. Palmer. No. 1,141,885; June 1; Gaz. vol. 215; p. 278.
- Projecting apparatus. H. F. Patton. No. 1,133,178; Mar. 23; Gaz. vol. 212; p. 1301.
- Projecting apparatus. C. W. White. No. 1,124,367; Jan. 12; Gaz. vol. 210; p. 450.
- Projecting instrument. F. W. Lane. No. 1,142,585; June 8; Gaz. vol. 215; p. 564.
- Projecting-machine. W. F. Fox. No. 1,166,120; Dec. 28; Gaz. vol. 221; p. 1308.
- Projecting-machines, Automatic make-and-break device for. L. R. Kennedy and O. B. Olson. No. 1,127,775; Feb. 9; Gaz. vol. 211; p. 430.
- Projection apparatus. C. F. Dussaud. No. 1,150,350; Aug. 17; Gaz. vol. 217; p. 831.
- Projection apparatus. J. Guerzoni and R. Pechkranz. No. 1,153,685; Sept. 14; Gaz. vol. 218; p. 506.
- Projection apparatus. W. L. Patterson. No. 1,134,154; Apr. 6; Gaz. vol. 213; p. 25.
- Projection apparatus and the like. H. N. Ott and C. W. Barton. No. 1,143,993; June 22; Gaz. vol. 215; p. 1116.
- Projection apparatus, Automatic. J. Guerzoni and R. Pechkranz. No. 1,161,660; Nov. 23; Gaz. vol. 220; p. 1276.
- Projection-apparatus holder. W. L. Patterson. No. 1,146,948; July 20; Gaz. vol. 216; p. 731.
- Projection apparatus, Object-holder for. C. W. Barton. No. 1,158,429; Nov. 2; Gaz. vol. 220; p. 5.
- Projections, Forming. G. C. Knauff. No. 1,142,820; June 15; Gaz. vol. 215; p. 683.
- Promenades and playing-courts, Construction of. W. G. K. Birkinshaw and C. A. Brown. No. 1,140,241; May 18; Gaz. vol. 214; p. 960.
- Proof-testing machine. T. Olsen. No. 1,141,822; June 1; Gaz. vol. 215; p. 257.
- Proofing-machine. G. J. Hicks. No. 1,127,000; Feb. 2; Gaz. vol. 211; p. 118.
- Proofing process and apparatus. L. Geer. No. 1,160,080; Nov. 16; Gaz. vol. 220; p. 991.
- Propeller. T. Amnelius. No. 1,146,121; July 13; Gaz. vol. 216; p. 421.
- Propeller. J. Bauer. No. 1,144,580; June 29; Gaz. vol. 215; p. 1348.
- Propeller. H. I. Benedict. No. 1,148,434; July 27; Gaz. vol. 216; p. 1280.
- Propeller. R. R. Bevis. No. 1,133,222; Mar. 23; Gaz. vol. 212; p. 1316.
- Propeller. E. C. Blackwell. No. 1,159,824; Nov. 9; Gaz. vol. 220; p. 530.
- Propeller. A. H. C. Gibson. No. 1,147,233; July 20; Gaz. vol. 216; p. 831.
- Propeller. W. I. Gibson. No. 1,147,083; July 20; Gaz. vol. 216; p. 777.
- Propeller. E. C. Harrington. No. 1,160,884; Nov. 16; Gaz. vol. 220; p. 957.
- Propeller. C. A. Hirth. No. 1,163,010; Dec. 7; Gaz. vol. 221; p. 96.
- Propeller. J. A. Irving. (Reissue.) No. 13,879; Feb. 16; Gaz. vol. 211; p. 926.
- Propeller. T. A. Macdonald. No. 1,135,829; Apr. 13; Gaz. vol. 213; p. 662.
- Propeller. A. E. Miller. No. 1,154,649; Sept. 28; Gaz. vol. 218; p. 902.
- Propeller. J. M. Ritchie. No. 1,125,719; Jan. 19; Gaz. vol. 210; p. 969.
- Propeller. B. R. Rozewski. No. 1,158,559; Nov. 2; Gaz. vol. 220; p. 54.
- Propeller. J. L. Scott. No. 1,142,915; June 15; Gaz. vol. 215; p. 717.
- Propeller. J. L. Scott. No. 1,142,916; June 15; Gaz. vol. 215; p. 717.
- Propeller. C. T. A. H. Wiedling. No. 1,127,143; Feb. 2; Gaz. vol. 211; p. 169.
- Propeller. C. T. A. H. Wiedling. No. 1,129,934; Mar. 2; Gaz. vol. 212; p. 35.
- Propeller, Air-. W. N. Whipple. No. 1,131,762; Mar. 16; Gaz. vol. 212; p. 735.
- Propeller apparatus for vessels. J. Kiernan. No. 1,158,929; Nov. 2; Gaz. vol. 220; p. 182.
- Propeller, Boat-. C. S. Barnes. No. 1,162,549; Nov. 30; Gaz. vol. 220; p. 1631.
- Propeller-feathering means. D. Ford. No. 1,158,195; Oct. 26; Gaz. vol. 219; p. 1122.
- Propeller for small boats and the like, Valved. T. H. Tracy. No. 1,162,528; Nov. 30; Gaz. vol. 220; p. 1624.
- Propeller for vessels, Sculling-. R. J. Lackner. No. 1,160,722; Nov. 16; Gaz. vol. 220; p. 901.
- Propeller for vessels, Steering-. C. W. Linscott. No. 1,163,352; Dec. 7; Gaz. vol. 221; p. 217.
- Propeller-pitchometer. L. Frank. No. 1,140,260; May 18; Gaz. vol. 214; p. 966.
- Propeller, Screw-. C. E. Evitts. No. 1,158,909; Nov. 2; Gaz. vol. 220; p. 175.
- Propeller, Screw-. W. Rowthorne. No. 1,142,530; June 8; Gaz. vol. 215; p. 545.
- Propeller, Screw-. H. Staples. No. 1,133,191; Mar. 23; Gaz. vol. 212; p. 1306.
- Propeller-shaft. F. E. Watts. No. 1,153,984; Sept. 21; Gaz. vol. 218; p. 645.
- Propeller, Ship-. A. F. Cizek. No. 1,134,670; Apr. 6; Gaz. vol. 213; p. 215.
- Propeller, Ship-. B. Greif. No. 1,155,654; Oct. 5; Gaz. vol. 219; p. 114.
- Propeller-wheel. E. Belicza. No. 1,134,029; Mar. 30; Gaz. vol. 212; p. 1635.
- Propellers for boats and the like, Apparatus for operating. C. B. Winzer. No. 1,133,599; Mar. 30; Gaz. vol. 212; p. 1487.
- Propellers, Reversing mechanism for boat-. J. Heck and C. J. Vitek. No. 1,161,935; Nov. 30; Gaz. vol. 220; p. 1419.
- Propelling and steering device, Boat. T. L. Dennis. No. 1,130,153; Mar. 2; Gaz. vol. 212; p. 108.
- Propelling apparatus, Boat-. B. B. Bowers. No. 1,123,474; Jan. 5; Gaz. vol. 210; p. 95.
- Propelling apparatus for vessels. L. Y. Spear. No. 1,152,567; Sept. 7; Gaz. vol. 218; p. 70.
- Propelling apparatus, Vessel-. W. O. Cutter. No. 1,164,787; Dec. 21; Gaz. vol. 221; p. 803.
- Propelling kit, Boat-. C. F. Kilgore. No. 1,164,361; Dec. 14; Gaz. vol. 221; p. 615.
- Propelling mechanism, Boat-. S. Armaczki. No. 1,139,471; May 18; Gaz. vol. 214; p. 689.
- Propelling mechanism, Boat-. M. A. Murray. No. 1,150,292; Aug. 17; Gaz. vol. 217; p. 811.
- Propelling mechanism for dredges, &c. L. E. Gesell. No. 1,125,088; Jan. 19; Gaz. vol. 210; p. 742.
- Propelling mechanism, Hand-operated. S. W. Reynolds. No. 1,126,569; Jan. 26; Gaz. vol. 210; p. 1308.
- Propelling steamships or other vessels, Means for. B. F. Wright. No. 1,140,786; May 25; Gaz. vol. 214; p. 1183.
- Propulsion and control for motor-boats, Electric. J. Lamb. No. 1,133,977; Mar. 30; Gaz. vol. 212; p. 1617.
- Propulsion, Boat. R. Dean. No. 1,123,498; Jan. 5; Gaz. vol. 210; p. 102.
- Propulsion device, Boat-. W. J. Johnston. No. 1,151,107; Aug. 24; Gaz. vol. 217; p. 1148.
- Propulsion mechanism. G. W. Rundle. No. 1,154,208; Sept. 21; Gaz. vol. 218; p. 720.
- Propelling mechanism. E. A. Watson. No. 1,160,021; Nov. 9; Gaz. vol. 220; p. 599.
- Propelling mechanism, Boat-. C. H. Clower. No. 1,159,899; Nov. 9; Gaz. vol. 220; p. 556.
- Propulsion mechanism, Marine. H. J. Perkins. No. 1,131,862; Mar. 16; Gaz. vol. 212; p. 773.
- Propulsion of ships. E. Court. No. 1,161,453; Nov. 23; Gaz. vol. 220; p. 1206.
- Propulsion of vessels. C. H. Fowler. No. 1,163,075; Dec. 7; Gaz. vol. 221; p. 118.
- Propulsion, Ship. H. Zoelly. No. 1,158,617; Nov. 2; Gaz. vol. 220; p. 73.
- Propulsion system, Ship-. W. L. R. Emmet. No. 1,137,308; Apr. 27; Gaz. vol. 213; p. 1266.
- Propulsion system, Ship-. W. L. R. Emmet. No. 1,137,593; Apr. 27; Gaz. vol. 213; p. 1365.
- Propylene from acetylene and methane, Producing. A. Heinemann. No. 1,134,677; Apr. 6; Gaz. vol. 213; p. 217.
- Proscenium structure. H. W. Bishop. No. 1,136,860; Apr. 20; Gaz. vol. 213; p. 1066.
- Protective arrangement for interlocked functions, Individual. W. S. Henry. No. 1,163,147; Dec. 7; Gaz. vol. 221; p. 143.
- Protective device. D. Basch. No. 1,154,359; Sept. 21; Gaz. vol. 218; p. 774.
- Protective device. E. R. Carichoff. No. 1,142,552; June 8; Gaz. vol. 215; p. 552.

Alphabetical list of inventions—Continued.

- Protective device. E. E. F. Creighton. No. 1,144,028; June 22; Gaz. vol. 215; p. 1130.
- Protective device. E. E. F. Creighton. No. 1,144,029; June 22; Gaz. vol. 215; p. 1130.
- Protective device. W. W. Dean. No. 1,125,491; Jan. 19; Gaz. vol. 210; p. 886.
- Protective device. C. F. Frank. No. 1,159,205; Nov. 2; Gaz. vol. 220; p. 277.
- Protective device. V. E. Goodwin. No. 1,161,656; Nov. 23; Gaz. vol. 220; p. 1274.
- Protective device, Electric interlocking. W. K. Howe. No. 1,163,153; Dec. 7; Gaz. vol. 221; p. 146.
- Protector. J. Schoening. No. 1,137,428; Apr. 27; Gaz. vol. 213; p. 1310.
- Protractor. C. B. Dannenberg. No. 1,133,540; Mar. 30; Gaz. vol. 212; p. 1466.
- Protractor. A. C. Ernest. No. 1,159,483; Nov. 9; Gaz. vol. 220; p. 407.
- Protractor and depth-gage for die-makers. Bevel. E. H. Hantz. No. 1,141,391; June 1; Gaz. vol. 215; p. 109.
- Protractor attachment. O. J. Williams. No. 1,131,585; Mar. 9; Gaz. vol. 212; p. 637.
- Protractor, Bevel. M. Zinsmayer. No. 1,125,628; Jan. 19; Gaz. vol. 210; p. 935.
- Protractor, Compass. E. C. Davison and E. M. Sherman. No. 1,161,625; Nov. 23; Gaz. vol. 220; p. 1264.
- Protractor, Draftsman's. R. N. Van Buskirk. No. 1,157,825; Oct. 26; Gaz. vol. 219; p. 991.
- Protractor, Micrometer. J. L. Hewitt. No. 1,123,294; Jan. 5; Gaz. vol. 210; p. 31.
- Prune-dipping machine. F. J. Yandle. No. 1,130,127; Mar. 2; Gaz. vol. 212; p. 99.
- Prune grader, cleaner, and spreader. F. J. Yandle. No. 1,162,123; Nov. 30; Gaz. vol. 220; p. 1486.
- Pruning device. G. W. Bull. No. 1,125,057; Jan. 19; Gaz. vol. 210; p. 732.
- Pruning device. J. H. Kane. No. 1,162,369; Nov. 30; Gaz. vol. 220; p. 1569.
- Pruning implement. D. Ronconi. No. 1,137,286; Apr. 27; Gaz. vol. 213; p. 1259.
- Pruning implement. J. A. Suggs. No. 1,124,552; Jan. 12; Gaz. vol. 210; p. 517.
- Pruning implement. C. M. Taylor. No. 1,150,718; Aug. 17; Gaz. vol. 217; p. 958.
- Pruning-knife. J. H. Keller. No. 1,153,626; Sept. 14; Gaz. vol. 218; p. 486.
- Pruning-knife. A. B. Robbins. No. 1,133,886; Mar. 30; Gaz. vol. 212; p. 1590.
- Pruning-shears. W. R. and H. A. Barr. No. 1,136,759; Apr. 20; Gaz. vol. 213; p. 1032.
- Pruning-shears. E. Buell. No. 1,137,380; Apr. 27; Gaz. vol. 213; p. 1293.
- Pruning-tool. F. V. Bartlett. No. 1,124,991; Jan. 12; Gaz. vol. 210; p. 673.
- Psychrometer. W. H. Carrier. No. 1,165,225; Dec. 21; Gaz. vol. 221; p. 958.
- Pull-on devices, Making and applying. E. C. Jacobs. No. 1,125,547; Jan. 19; Gaz. vol. 210; p. 905.
- Pull or control box. R. H. Cowdrey. No. 1,140,878; May 25; Gaz. vol. 214; p. 1218.
- Pull pendant switch. F. A. Brogden. No. 1,156,344; Oct. 12; Gaz. vol. 219; p. 377.
- Pull-socket. J. G. Girling. No. 1,158,200; Oct. 26; Gaz. vol. 219; p. 1123.
- Pull-switch. F. Barr. No. 1,158,428; Nov. 2; Gaz. vol. 220; p. 5.
- Puller: See—
- | | |
|----------------------|--------------------|
| Automobile-puller. | Shoe-puller. |
| Beet-puller. | Spike-puller. |
| Cork-puller. | Spring-puller. |
| Cotton-stalk puller. | Stalk-puller. |
| Drift-pin puller. | Stump-puller. |
| Flax-puller. | Sucker-rod puller. |
| Mud-puller. | Tack-puller. |
| Nail-puller. | Weed-puller. |
| Pinion-puller. | Wheel-puller. |
| Post-puller. | |
- Puller-machine. D. S. Seymour. No. 1,145,619; July 6; Gaz. vol. 216; p. 224.
- Pulling-over and lasting machine. E. Brothers. No. 1,135,947; Apr. 13; Gaz. vol. 213; p. 701.
- Pulling-over machine. C. F. Bennion. No. 1,123,662; Jan. 5; Gaz. vol. 210; p. 159.
- Pulling-over machine. F. Harris and A. Bates. No. 1,125,094; Jan. 19; Gaz. vol. 210; p. 745.
- Pulling-over machine. J. A. G. Iffert. No. 1,147,172; July 20; Gaz. vol. 216; p. 809.
- Pulling-over machine. R. F. McFeely. No. 1,135,954; Apr. 13; Gaz. vol. 213; p. 704.
- Pulling-over machine. R. F. McFeely. No. 1,145,380; July 6; Gaz. vol. 216; p. 141.
- Pulling-over machine. R. F. McFeely. No. 1,145,381; July 6; Gaz. vol. 216; p. 141.
- Pulling-over machine. R. F. McFeely. No. 1,162,378; Nov. 30; Gaz. vol. 220; p. 1572.
- Pulling-over machines, Gripper mechanism for. W. W. Darnill. No. 1,163,588; Dec. 7; Gaz. vol. 221; p. 298.
- Pulling-over machines, Updraw reversing mechanism for. W. T. B. Roberts. No. 1,128,723; Feb. 16; Gaz. vol. 211; p. 808.
- Pulling, stretching, hoisting, &c., Device for. J. E. Frost. No. 1,132,082; Mar. 16; Gaz. vol. 212; p. 852.
- Pulley. C. W. Anderson. No. 1,151,748; Aug. 31; Gaz. vol. 217; p. 1413.
- Pulley. R. H. Bowen. No. 1,125,643; Jan. 19; Gaz. vol. 210; p. 940.
- Pulley. G. Bowers. No. 1,152,597; Sept. 7; Gaz. vol. 218; p. 50.
- Pulley. C. A. and C. E. Brinley. No. 1,152,282; Aug. 31; Gaz. vol. 217; p. 1598.
- Pulley. G. Fuenfstueck. No. 1,148,507; Aug. 3; Gaz. vol. 217; p. 8.
- Pulley. J. C. Kamp and A. E. Finch. No. 1,151,598; Aug. 31; Gaz. vol. 217; p. 1363.
- Pulley. P. Marqua. No. 1,157,710; Oct. 26; Gaz. vol. 219; p. 952.
- Pulley. L. Whitcomb. No. 1,156,120; Oct. 12; Gaz. vol. 219; p. 302.
- Pulley and driving-belt guard. J. J. Sweeney. No. 1,145,715; July 6; Gaz. vol. 216; p. 260.
- Pulley and power-transmitting device, Lubricating loose. S. L. McAdams. No. 1,125,357; Jan. 19; Gaz. vol. 210; p. 840.
- Pulley and window-frame, Sash. U. G. McQueen. No. 1,130,000; Mar. 2; Gaz. vol. 212; p. 56.
- Pulley-block. B. C. Bail. No. 1,145,110; July 6; Gaz. vol. 216; p. 49.
- Pulley-block. R. Brown. No. 1,142,485; June 8; Gaz. vol. 215; p. 529.
- Pulley-block. O. F. Carlson and J. Foran. No. 1,164,919; Dec. 21; Gaz. vol. 221; p. 849.
- Pulley-block. L. D. Cull. No. 1,152,608; Sept. 7; Gaz. vol. 218; p. 83.
- Pulley-block. R. H. Worrel. No. 1,141,745; June 1; Gaz. vol. 215; p. 232.
- Pulley-block and hoisting and lowering gear. L. Tabulo. No. 1,163,702; Dec. 14; Gaz. vol. 221; p. 384.
- Pulley-block, Electrically-operated. C. Tadey. No. 1,165,814; Dec. 28; Gaz. vol. 221; p. 1201.
- Pulley-block shackle. A. M. Mears. No. 1,158,385; Oct. 26; Gaz. vol. 219; p. 1188.
- Pulley-bushing. R. J. Walther. No. 1,126,321; Jan. 26; Gaz. vol. 210; p. 1218.
- Pulley-case. J. B. Clermont. No. 1,132,651; Mar. 23; Gaz. vol. 212; p. 1108.
- Pulley. Cut-out. A. C. McWilliams. No. 1,157,239; Oct. 19; Gaz. vol. 219; p. 725.
- Pulley-drive, High-power. A. L. De Leeuw. No. 1,165,369; Dec. 21; Gaz. vol. 221; p. 1006.
- Pulley, Expandable. H. G. Beede. No. 1,158,886; Nov. 2; Gaz. vol. 220; p. 168.
- Pulley, Expandable. E. O. Custer. No. 1,144,353; June 29; Gaz. vol. 215; p. 1273.
- Pulley, Expandable. J. Granz. No. 1,126,195; Jan. 26; Gaz. vol. 210; p. 1173.
- Pulley, Expandable. W. Reimers. No. 1,144,381; June 29; Gaz. vol. 215; p. 1282.
- Pulley, Expandable. M. L. Severy. No. 1,126,100; Jan. 26; Gaz. vol. 210; p. 1138.
- Pulley, Expandable. M. L. Severy. No. 1,132,125; Mar. 16; Gaz. vol. 212; p. 868.
- Pulley frame and mounting. O. H. Iman. No. 1,153,923; Sept. 21; Gaz. vol. 218; p. 624.
- Pulley-frame and pulley thrust-bearing. Self-oiling combination. A. Czajkowski. No. 1,161,198; Nov. 23; Gaz. vol. 220; p. 1114.
- Pulley frame, Sash. C. Tuteur. No. 1,142,999; June 15; Gaz. vol. 215; p. 746.
- Pulley, Friction-clutch. A. Rubinger. No. 1,151,759; Aug. 31; Gaz. vol. 217; p. 1417.
- Pulley-housing, Securing means for a removable. E. Anderson. No. 1,142,870; June 15; Gaz. vol. 215; p. 701.
- Pulley-mounting. W. S. Molsinger. No. 1,151,811; Aug. 31; Gaz. vol. 217; p. 1437.
- Pulley, Reversible-speed. F. M. Chapman. No. 1,156,132; Oct. 12; Gaz. vol. 219; p. 307.
- Pulley rim-clamp. R. H. Bowen. No. 1,142,749; June 8; Gaz. vol. 215; p. 617.
- Pulley, Sash. U. G. McQueen. No. 1,129,998; Mar. 2; Gaz. vol. 212; p. 56.
- Pulley, Sash. U. G. McQueen. No. 1,129,999; Mar. 2; Gaz. vol. 212; p. 56.
- Pulley, Split belt. C. S. Nyberg. No. 1,145,078; July 6; Gaz. vol. 216; p. 38.
- Pulley-supporting bracket, Tension. C. E. Spaulding. No. 1,136,626; Apr. 20; Gaz. vol. 213; p. 984.
- Pulley-wheel. W. Livingston. No. 1,135,595; Apr. 13; Gaz. vol. 213; p. 579.
- Pulleys, Automatic disengaging device for belt. C. W. F. Hansen. No. 1,148,018; July 27; Gaz. vol. 216; p. 1132.
- Pulleys of textile-machines, Protector-guard for tension. M. Spencer. No. 1,131,167; Mar. 9; Gaz. vol. 212; p. 493.
- Pulp agitator and refiner. F. B. Gilligan. No. 1,127,615; Feb. 9; Gaz. vol. 211; p. 371.
- Pulp and cellulose, Centrifugal strainer for wood. H. Thoresen and J. C. Falch. No. 1,145,097; July 6; Gaz. vol. 216; p. 45.
- Pulp and waste removing and fiber-cleaning machine. W. S. Grove. No. 1,145,014; July 6; Gaz. vol. 216; p. 13.
- Pulp and waste removing and fiber-cleaning machine. W. S. Grove. No. 1,145,015; July 6; Gaz. vol. 216; p. 13.
- Pulp articles, Apparatus for making. M. P. Chaplin. No. 1,158,634; Nov. 2; Gaz. vol. 220; p. 79.

Alphabetical list of inventions—Continued.

- Pulp articles, Apparatus for making. M. P. Chaplin. No. 1,158,635; Nov. 2; Gaz. vol. 220; p. 80.
- Pulp-beater. H. C. Watson. No. 1,129,824; Feb. 23; Gaz. vol. 211; p. 1225.
- Pulp-beating apparatus. R. Marx. No. 1,149,381; Aug. 10; Gaz. vol. 217; p. 422.
- Pulp-collecting form. E. R. Gill. No. 1,161,125; Nov. 23; Gaz. vol. 220; p. 1087.
- Pulp-feeding mechanism. W. R. Macklind. No. 1,154,190; Sept. 21; Gaz. vol. 218; p. 714.
- Pulp for making paper and like material, Treating. H. Arlsetter. No. 1,153,883; Sept. 21; Gaz. vol. 218; p. 611.
- Pulp layers, Apparatus for shaping. W. Mauersberger. No. 1,149,669; Aug. 10; Gaz. vol. 217; p. 528.
- Pulp, Machine for forming successive layers of. H. Parker. No. 1,147,262; July 20; Gaz. vol. 216; p. 840.
- Pulp, Machine for making plates from. F. W. Waterman. No. 1,139,002; May 11; Gaz. vol. 214; p. 489.
- Pulp-mills, Reclaiming apparatus for use in connection with. G. E. Miller. No. 1,156,800; Oct. 12; Gaz. vol. 219; p. 537.
- Pulp molding and drying machine. J. H. Rivers. No. 1,161,160; Nov. 23; Gaz. vol. 220; p. 1100.
- Pulp-reclaimer. C. S. Bird. No. 1,151,999; Aug. 31; Gaz. vol. 217; p. 1500.
- Pulp-screen. C. E. Pope. No. 1,127,372; Feb. 2; Gaz. vol. 211; p. 246.
- Pulp-screen. P. P. Westbye. No. 1,134,304; Apr. 6; Gaz. vol. 213; p. 81.
- Pulp-screen, Centrifugal. A. J. Haug. No. 1,147,239; July 20; Gaz. vol. 216; p. 833.
- Pulp-screen, Rotary. R. S. Clarke. No. 1,131,599; Mar. 9; Gaz. vol. 212; p. 643.
- Pulp-screens, Driving-gear for rotary. R. S. Clarke. No. 1,138,192; May 4; Gaz. vol. 214; p. 165.
- Pulp-screens, Method of and apparatus for cleaning. J. Bishop. No. 1,147,295; July 20; Gaz. vol. 216; p. 850.
- Pulp-screening machine. P. P. Westbye. No. 1,155,116; Sept. 28; Gaz. vol. 218; p. 1062.
- Pulp-settler. H. R. Conklin. No. 1,147,786; July 27; Gaz. vol. 216; p. 1049.
- Pulp stuff and the like, Apparatus for refining. T. H. Nash. No. 1,140,181; May 18; Gaz. vol. 214; p. 940.
- Pulp-washing machine, Filter-. K. Noller. No. 1,129,419; Feb. 23; Gaz. vol. 211; p. 1089.
- Pulping apparatus. H. L. Kutter. No. 1,162,292; Nov. 30; Gaz. vol. 220; p. 1543.
- Pulsating or varying air or fluid pressure, Apparatus for. W. H. Lawrence. No. 1,125,348; Jan. 19; Gaz. vol. 210; p. 836.
- Pulsating screen. E. B. Symons. No. 1,141,153; June 1; Gaz. vol. 215; p. 22.
- Pulsating screen. E. B. Symons. No. 1,151,976; Aug. 31; Gaz. vol. 217; p. 1493.
- Pulsating screen for pulp and the like. T. Qviller. No. 1,124,802; Jan. 12; Gaz. vol. 210; p. 607.
- Pulsator for pulsatory tools. C. A. Dawley. No. 1,126,959; Feb. 2; Gaz. vol. 211; p. 103.
- Pulsator for pulsatory tools. A. H. Gibson. No. 1,151,936; Aug. 31; Gaz. vol. 217; p. 1478.
- Pulsometer. A. H. W. Johnson. No. 1,135,189; Apr. 13; Gaz. vol. 213; p. 438.
- Pulverizer. J. Boero. No. 1,130,251; Mar. 2; Gaz. vol. 212; p. 142.
- Pulverizer. F. R. Cornwall. No. 1,144,352; June 29; Gaz. vol. 215; p. 1273.
- Pulverizer. P. C. Forrester. No. 1,142,159; June 8; Gaz. vol. 215; p. 414.
- Pulverizer. J. L. Hiller. No. 1,135,795; Apr. 13; Gaz. vol. 213; p. 648.
- Pulverizer. W. K. Liggett. No. 1,125,137; Jan. 19; Gaz. vol. 210; p. 760.
- Pulverizer. E. B. Spross. No. 1,149,414; Aug. 10; Gaz. vol. 217; p. 434.
- Pulverizer. F. E. Stevenson and R. Brown. No. 1,123,613; Jan. 5; Gaz. vol. 210; p. 142.
- Pulverizer, Disk. C. S. Cameron. No. 1,148,008; July 27; Gaz. vol. 216; p. 1128.
- Pulverizer, Rotary. C. E. Brainard. No. 1,144,102; June 22; Gaz. vol. 215; p. 1156.
- Pulverizer, Soil-. F. Baldwin. No. 1,156,873; Oct. 19; Gaz. vol. 219; p. 593.
- Pulverizer, Soil-. C. Griffith. No. 1,135,277; Apr. 13; Gaz. vol. 213; p. 466.
- Pulverizer, Surface-. G. M. Fast. No. 1,127,422; Feb. 9; Gaz. vol. 211; p. 305.
- Pulverizing and separating machine. E. J. Steckle. No. 1,159,122; Nov. 2; Gaz. vol. 220; p. 245.
- Pulverizing-mill. J. C. Clark. No. 1,127,964; Feb. 9; Gaz. vol. 211; p. 497.
- Pulverizing-mill. H. U. Prindle. No. 1,158,283; Oct. 26; Gaz. vol. 219; p. 1152.
- Pump. L. R. Applegate. No. 1,150,803; Aug. 17; Gaz. vol. 217; p. 987.
- Pump. L. A. Aspinwall. No. 1,162,436; Nov. 30; Gaz. vol. 220; p. 1592.
- Pump. H. A. Bardeen and F. W. Harris. No. 1,148,069; July 27; Gaz. vol. 216; p. 1151.
- Pump. I. K. Baxter. No. 1,159,350; Nov. 9; Gaz. vol. 220; p. 359.
- Pump. R. E. Bechtold and A. D. Wickoff. No. 1,164,700; Dec. 21; Gaz. vol. 221; p. 773.
- Pump. A. F. S. Blackwood. No. 1,150,832; Aug. 17; Gaz. vol. 217; p. 997.
- Pump. A. A. Bowser. No. 1,138,621; May 11; Gaz. vol. 214; p. 352.
- Pump. S. F. Bowser. No. 1,137,456; Apr. 27; Gaz. vol. 213; p. 1319.
- Pump. J. T. S. Brown, Jr. No. 1,156,052; Oct. 12; Gaz. vol. 219; p. 279.
- Pump. J. T. S. Brown, Jr. No. 1,156,882; Oct. 19; Gaz. vol. 219; p. 597.
- Pump. S. L. Calvert. No. 1,160,840; Nov. 16; Gaz. vol. 220; p. 942.
- Pump. S. L. Calvert. No. 1,164,917; Dec. 21; Gaz. vol. 221; p. 848.
- Pump. R. L. Campbell. No. 1,130,959; Mar. 9; Gaz. vol. 212; p. 422.
- Pump. M. T. and M. C. Chapman. No. 1,163,809; Dec. 14; Gaz. vol. 221; p. 423.
- Pump. J. N. Childs. No. 1,164,168; Dec. 14; Gaz. vol. 221; p. 546.
- Pump. E. W. Clark. No. 1,164,926; Dec. 21; Gaz. vol. 221; p. 852.
- Pump. R. Cook and O. Lindley. No. 1,133,009; Mar. 23; Gaz. vol. 212; p. 1241.
- Pump. C. B. Dalzell. No. 1,125,483; Jan. 19; Gaz. vol. 210; p. 883.
- Pump. N. W. Davis. No. 1,146,312; July 13; Gaz. vol. 216; p. 487.
- Pump. A. L. De Leeuw. No. 1,131,044; Mar. 9; Gaz. vol. 212; p. 452.
- Pump. A. A. Dittmar. No. 1,147,221; July 20; Gaz. vol. 216; p. 827.
- Pump. R. A. Dornes. No. 1,143,255; June 15; Gaz. vol. 215; p. 838.
- Pump. W. B. Eib. No. 1,136,946; Apr. 27; Gaz. vol. 213; p. 1133.
- Pump. S. K. Epler. No. 1,123,265; Jan. 5; Gaz. vol. 210; p. 21.
- Pump. J. L. and V. L. Fogle. No. 1,125,830; Jan. 19; Gaz. vol. 210; p. 1008.
- Pump. F. Foley. No. 1,164,469; Dec. 14; Gaz. vol. 221; p. 652.
- Pump. H. C. Fuhrman. No. 1,157,686; Oct. 26; Gaz. vol. 219; p. 944.
- Pump. C. T. Harding. No. 1,166,365; Dec. 28; Gaz. vol. 221; p. 1399.
- Pump. M. Harvey. No. 1,129,488; Feb. 23; Gaz. vol. 211; p. 1114.
- Pump. F. R. Hazard. No. 1,163,535; Dec. 7; Gaz. vol. 221; p. 279.
- Pump. R. E. Hurst. No. 1,137,211; Apr. 27; Gaz. vol. 213; p. 1230.
- Pump. E. Isberg. No. 1,134,048; Mar. 30; Gaz. vol. 212; p. 1642.
- Pump. E. E. Izer. No. 1,154,316; Sept. 21; Gaz. vol. 218; p. 759.
- Pump. L. H. Jensen. No. 1,130,406; Mar. 2; Gaz. vol. 212; p. 196.
- Pump. A. E. Johnson. No. 1,165,261; Dec. 21; Gaz. vol. 221; p. 969.
- Pump. J. F. Jones, Jr. No. 1,152,734; Sept. 7; Gaz. vol. 218; p. 130.
- Pump. O. Karcher. No. 1,153,312; Sept. 14; Gaz. vol. 218; p. 372.
- Pump. H. W. Kimes. No. 1,128,792; Feb. 16; Gaz. vol. 211; p. 832.
- Pump. H. W. Kimes. No. 1,166,224; Dec. 28; Gaz. vol. 221; p. 1348.
- Pump. R. E. Kline. No. 1,147,248; July 20; Gaz. vol. 216; p. 836.
- Pump. O. A. Kraeer. No. 1,135,821; Apr. 13; Gaz. vol. 213; p. 658.
- Pump. F. N. Livingston. No. 1,133,980; Mar. 30; Gaz. vol. 212; p. 1618.
- Pump. O. D. Lucas. No. 1,152,112; Aug. 31; Gaz. vol. 217; p. 1540.
- Pump. W. D. Lutz. No. 1,141,252; June 1; Gaz. vol. 215; p. 57.
- Pump. G. L. McDermott. No. 1,164,831; Dec. 21; Gaz. vol. 221; p. 819.
- Pump. F. H. Meier. No. 1,144,718; June 29; Gaz. vol. 215; p. 1397.
- Pump. R. M. Nichols. No. 1,153,816; Sept. 14; Gaz. vol. 218; p. 552.
- Pump. E. P. Porcher. No. 1,135,320; Apr. 13; Gaz. vol. 213; p. 482.
- Pump. L. L. Pratt. No. 1,139,071; May 11; Gaz. vol. 214; p. 514.
- Pump. J. H. Randles. No. 1,155,370; Oct. 5; Gaz. vol. 219; p. 16.
- Pump. C. S. Rogers. No. 1,159,868; Nov. 9; Gaz. vol. 220; p. 546.
- Pump. J. M. Sherman. No. 1,143,325; June 15; Gaz. vol. 215; p. 863.
- Pump. C. W. Sidwell. No. 1,142,734; June 8; Gaz. vol. 215; p. 612.
- Pump. O. Singer. No. 1,150,826; Aug. 17; Gaz. vol. 217; p. 995.
- Pump. K. D. Smith. No. 1,159,876; Nov. 9; Gaz. vol. 220; p. 549.

- Pump. J. Train. No. 1,145,528; July 6; Gaz. vol. 216; p. 193.
- Pump. J. T. Trumble. No. 1,161,999; Nov. 30; Gaz. vol. 220; p. 1441.
- Pump. C. J. Veley and L. S. Deal. No. 1,159,554; Nov. 9; Gaz. vol. 220; p. 431.
- Pump. W. U. Watson. No. 1,166,098; Dec. 28; Gaz. vol. 221; p. 1299.
- Pump. C. G. Weld. No. 1,163,724; Dec. 14; Gaz. vol. 221; p. 392.
- Pump. H. Wellington. No. 1,125,611; Jan. 19; Gaz. vol. 210; p. 929.
- Pump. F. H. Whipple. No. 1,132,413; Mar. 16; Gaz. vol. 212; p. 973.
- Pump. C. S. Wright. No. 1,145,733; July 6; Gaz. vol. 216; p. 266.
- Pump. A. D. Wyckoff. No. 1,126,167; Jan. 26; Gaz. vol. 210; p. 1162.
- Pump-actuating mechanism. J. D. Price. No. 1,165,021; Dec. 21; Gaz. vol. 221; p. 885.
- Pump-actuating mechanism. P. J. Wickblom. No. 1,127,142; Feb. 2; Gaz. vol. 211; p. 169.
- Pump, Air-. P. J. Bode. No. 1,148,073; July 27; Gaz. vol. 216; p. 1152.
- Pump, Air-. G. Brandstetter and R. Freund. No. 1,126,613; Jan. 26; Gaz. vol. 210; p. 1324.
- Pump, Air-. T. S. Causey. No. 1,147,002; July 20; Gaz. vol. 216; p. 750.
- Pump, Air-. L. Clawson. No. 1,162,222; Nov. 30; Gaz. vol. 220; p. 1519.
- Pump, Air-. J. A. and F. L. Dreehouse. No. 1,165,157; Dec. 21; Gaz. vol. 221; p. 934.
- Pump, Air-. R. C. Hilton. No. 1,139,419; May 11; Gaz. vol. 214; p. 634.
- Pump, Air-. J. J. Messerli. No. 1,140,699; May 25; Gaz. vol. 214; p. 1154.
- Pump, Air-. J. K. Stewart. No. 1,158,080; Oct. 26; Gaz. vol. 219; p. 1081.
- Pump, Air-compression. H. A. J. Evesque. No. 1,146,487; July 13; Gaz. vol. 216; p. 552.
- Pump, Air or other fluid-pressure. W. R. Pilkington. No. 1,160,528; Nov. 16; Gaz. vol. 220; p. 829.
- Pump and bailer, Combination sand-. C. F. Rigby. No. 1,158,292; Oct. 26; Gaz. vol. 219; p. 1156.
- Pump and compressor, Combined scavenging-. O. F. Persson. No. 1,154,336; Sept. 21; Gaz. vol. 218; p. 766.
- Pump and emergency governor, Combined. B. Krämer. No. 1,153,628; Sept. 14; Gaz. vol. 218; p. 486.
- Pump and motor, Rotary. W. J. Vincent. No. 1,135,414; Apr. 13; Gaz. vol. 213; p. 515.
- Pump and starter for explosive-engines, Combined air-. F. E. Ten Eyck. No. 1,140,723; May 25; Gaz. vol. 214; p. 1161.
- Pump and turbine, Axial-flow. E. F. Deléry. No. 1,150,747; Aug. 17; Gaz. vol. 217; p. 967.
- Pump and vacuum-trap, Pressure-. J. E. L. Ogden. No. 1,134,405; Apr. 6; Gaz. vol. 213; p. 117.
- Pump appliance. C. E. Dale. No. 1,133,270; Mar. 30; Gaz. vol. 212; p. 1369.
- Pump attachment. J. Frey. No. 1,159,002; Nov. 2; Gaz. vol. 220; p. 206.
- Pump attachment for automobiles, &c. B. Mayfields. No. 1,133,992; Mar. 30; Gaz. vol. 212; p. 1622.
- Pump, Automatic. J. B. Haskell. No. 1,151,009; Aug. 24; Gaz. vol. 217; p. 1115.
- Pump, Automatic pneumatic. T. E. Ryder. No. 1,129,362; Feb. 23; Gaz. vol. 211; p. 1069.
- Pump, Automatic tire-. F. C. Craw. No. 1,132,167; Mar. 16; Gaz. vol. 212; p. 883.
- Pump, Automatically-controlled. W. R. Stuteville. No. 1,135,221; Apr. 13; Gaz. vol. 213; p. 448.
- Pump, Automobile tire-. F. A. Dowler. No. 1,137,956; May 4; Gaz. vol. 214; p. 82.
- Pump, Balance-. C. B. Walker. No. 1,125,224; Jan. 19; Gaz. vol. 210; p. 792.
- Pump, Balanced centrifugal. F. W. Krough. No. 1,153,321; Sept. 14; Gaz. vol. 218; p. 375.
- Pump, Balanced centrifugal. M. B. Macneill. No. 1,157,240; Oct. 19; Gaz. vol. 219; p. 725.
- Pump, Bilge-. W. A. Edwards. No. 1,137,849; May 4; Gaz. vol. 214; p. 44.
- Pump, blower, compressor, and the like, Centrifugal. E. Schneider. No. 1,126,300; Jan. 26; Gaz. vol. 210; p. 1209.
- Pump booster, Air-lift-. F. S. Miller. No. 1,157,998; Oct. 26; Gaz. vol. 219; p. 1051.
- Pump, Breast-. H. L. Bruen. No. 1,148,952; Aug. 3; Gaz. vol. 217; p. 165.
- Pump, Centrifugal. L. W. Bodinson. No. 1,136,928; Apr. 27; Gaz. vol. 213; p. 1126.
- Pump, Centrifugal. L. W. Bodinson. No. 1,155,401; Oct. 5; Gaz. vol. 219; p. 27.
- Pump, Centrifugal. P. Daniel. No. 1,156,063; Oct. 12; Gaz. vol. 219; p. 283.
- Pump, Centrifugal. E. A. Hansen. No. 1,143,957; June 22; Gaz. vol. 215; p. 1103.
- Pump, Centrifugal. C. V. Kerr. No. 1,125,117; Jan. 19; Gaz. vol. 210; p. 752.
- Pump, Centrifugal. C. V. Kerr. No. 1,129,038; Feb. 16; Gaz. vol. 211; p. 921.
- Pump, Centrifugal. K. Kiefer. No. 1,162,373; Nov. 30; Gaz. vol. 220; p. 1571.
- Pump, Centrifugal. F. W. Krogh. No. 1,141,556; June 1; Gaz. vol. 215; p. 167.
- Pump, Centrifugal. F. W. Krogh. No. 1,163,242; Dec. 7; Gaz. vol. 221; p. 178.
- Pump, Centrifugal. M. Leblanc. No. 1,150,686; Aug. 17; Gaz. vol. 217; p. 948.
- Pump, Centrifugal. J. Lehne and W. Lucke. No. 1,139,042; May 11; Gaz. vol. 214; p. 504.
- Pump, Centrifugal. W. P. Scheurmann. No. 1,163,778; Dec. 14; Gaz. vol. 221; p. 411.
- Pump, Centrifugal. W. Sparks. No. 1,128,822; Feb. 16; Gaz. vol. 211; p. 843.
- Pump, Centrifugal. J. Taylor and L. W. Well. No. 1,125,763; Jan. 19; Gaz. vol. 210; p. 984.
- Pump, Centrifugal. W. M. White. No. 1,134,655; Apr. 6; Gaz. vol. 213; p. 209.
- Pump, Centrifugal and turbine. A. B. Jennings. No. 1,127,997; Feb. 9; Gaz. vol. 211; p. 508.
- Pump, Centrifugal throwing-. A. Peter. No. 1,156,550; Oct. 12; Gaz. vol. 219; p. 451.
- Pump, Compound air-. G. W. Baldwin and P. H. Slapley. No. 1,149,324; Aug. 10; Gaz. vol. 217; p. 402.
- Pump, Compressed-air hydraulic. A. Mariotti. No. 1,155,594; Oct. 5; Gaz. vol. 219; p. 93.
- Pump, Compression-. R. E. McGlynn. No. 1,141,571; June 1; Gaz. vol. 215; p. 173.
- Pump, Compressor-. E. W. Comfort. No. 1,144,641; June 29; Gaz. vol. 215; p. 1368.
- Pump, Condenser-. C. V. Kerr. No. 1,159,776; Nov. 9; Gaz. vol. 220; p. 512.
- Pump, condenser, or compressor, Rotary. E. S. G. Rees. No. 1,144,865; June 29; Gaz. vol. 215; p. 1447.
- Pump-controlling mechanism. R. E. Bechtold. No. 1,164,699; Dec. 21; Gaz. vol. 221; p. 773.
- Pump-controlling mechanism, Fuel-. B. Krämer. No. 1,158,063; Oct. 26; Gaz. vol. 219; p. 1075.
- Pump, Deep-well. L. W. Bodinson. No. 1,152,479; Sept. 7; Gaz. vol. 218; p. 35.
- Pump, Deep-well. M. T. and M. C. Chapman. No. 1,149,633; Aug. 10; Gaz. vol. 217; p. 514.
- Pump, Deep-well. O. A. Kraefer. No. 1,165,105; Dec. 21; Gaz. vol. 221; p. 915.
- Pump, Deep-well. L. Loop. No. 1,163,024; Dec. 7; Gaz. vol. 221; p. 101.
- Pump, Deep-well. J. E. Mills. No. 1,134,479; Apr. 6; Gaz. vol. 213; p. 144.
- Pump, Deep-well. W. P. Scheurmann. No. 1,141,010; May 25; Gaz. vol. 214; p. 1263.
- Pump, Deep-well. F. B. Warring. No. 1,139,607; May 18; Gaz. vol. 214; p. 738.
- Pump device, Steam-. W. V. Turner. No. 1,131,182; Mar. 9; Gaz. vol. 212; p. 499.
- Pump, Differential. J. Astrom. No. 1,128,089; Feb. 9; Gaz. vol. 211; p. 541.
- Pump, Double-acting force-. A. R. Shippey. No. 1,134,918; Apr. 6; Gaz. vol. 213; p. 297.
- Pump, Duplex. C. M. Church. No. 1,144,298; June 22; Gaz. vol. 215; p. 1225.
- Pump, Duplex. C. M. Church. No. 1,164,169; Dec. 14; Gaz. vol. 221; p. 547.
- Pump, Electric. A. E. Hall and G. H. Fraser. No. 1,161,845; Nov. 23; Gaz. vol. 220; p. 1182.
- Pump, Expansion relief-. A. A. Bowser. No. 1,147,841; July 27; Gaz. vol. 216; p. 1070.
- Pump for corrosive liquids. A. Ferraris. No. 1,159,201; Nov. 2; Gaz. vol. 220; p. 276.
- Pump for Diesel engines, Oil-. C. Rorabeck. No. 1,132,797; Mar. 23; Gaz. vol. 212; p. 1163.
- Pump for gas-producing apparatus. C. S. McFarlane. No. 1,153,235; Sept. 14; Gaz. vol. 218; p. 345.
- Pump for hydrocarbon-engines, Fuel-. H. F. Shepherd. No. 1,159,425; Nov. 9; Gaz. vol. 220; p. 386.
- Pump for hydrocarbon-engines, Water and feed. H. F. Shepherd. No. 1,165,028; Dec. 21; Gaz. vol. 221; p. 887.
- Pump for internal-combustion engines. N. Dechamps. No. 1,165,855; Dec. 28; Gaz. vol. 221; p. 1214.
- Pump for internal-combustion engines. A. F. Macdonald. No. 1,128,023; Feb. 9; Gaz. vol. 211; p. 518.
- Pump for internal-combustion engines, Fuel-. B. Krämer. No. 1,158,061; Oct. 26; Gaz. vol. 219; p. 1075.
- Pump for internal-combustion engines, Fuel-. H. R. Setz. No. 1,123,815; Jan. 5; Gaz. vol. 210; p. 211.
- Pump for motor-vehicles. S. A. Strickland. No. 1,150,977; Aug. 24; Gaz. vol. 217; p. 1105.
- Pump for motors, Oil-. H. Zielinski. No. 1,162,431; Nov. 30; Gaz. vol. 220; p. 1590.
- Pump for oil and gas wells and the like. G. R. Gambel and H. A. Stringer. No. 1,132,329; Mar. 16; Gaz. vol. 212; p. 943.
- Pump for oil and like wells. W. H. Bradley. No. 1,129,631; Feb. 23; Gaz. vol. 211; p. 1163.
- Pump for vacuum cleaning systems. G. B. Bartley. No. 1,138,617; May 11; Gaz. vol. 214; p. 351.
- Pump for variable-speed hydraulic transmission-gears. C. Bellens. No. 1,153,478; Sept. 14; Gaz. vol. 218; p. 433.
- Pump for wool-washing machines. F. G. Sargent. No. 1,128,056; Feb. 9; Gaz. vol. 211; p. 529.
- Pump, Force-. T. F. Mulligan. No. 1,132,670; Mar. 23; Gaz. vol. 212; p. 1115.

Alphabetical list of inventions—Continued.

- Pump, Fuel-. H. Lemp. No. 1,166,230; Dec. 28; Gaz. vol. 221; p. 1351.
- Pump, Fuel-. O. P. Ostergren and G. Fast. No. 1,161,515; Nov. 23; Gaz. vol. 220; p. 1227.
- Pump, Gear-. G. W. Dunham. No. 1,161,037; Nov. 23; Gaz. vol. 220; p. 1056.
- Pump, Gear-. W. G. Hawley. No. 1,129,090; Feb. 23; Gaz. vol. 211; p. 973.
- Pump-governor. J. McManamy and A. Reid. No. 1,156,165; Oct. 12; Gaz. vol. 219; p. 318.
- Pump governors, Blow-out device for electric-. W. V. Turner. No. 1,141,158; June 1; Gaz. vol. 215; p. 24.
- Pump-head. H. F. Story. No. 1,154,348; Sept. 21; Gaz. vol. 218; p. 770.
- Pump-head. A. C. Terkelson. No. 1,159,620; Nov. 9; Gaz. vol. 220; p. 456.
- Pump-head, Self-olling. H. A. Stenger. No. 1,134,929; Apr. 6; Gaz. vol. 213; p. 301.
- Pump, Horizontal turbine-. F. W. Krogh. No. 1,146,079; July 13; Gaz. vol. 216; p. 406.
- Pump, Hydraulic. S. Driver. No. 1,123,712; Jan. 5; Gaz. vol. 210; p. 175.
- Pump, Hydropneumatic. B. S. H. Harris. No. 1,148,315; July 27; Gaz. vol. 216; p. 1239.
- Pump, Internal-combustion. W. Schafer. No. 1,158,303; Oct. 26; Gaz. vol. 219; p. 1160.
- Pump, Internal-combustion. C. E. White. No. 1,157,071; Oct. 19; Gaz. vol. 219; p. 665.
- Pump-jack. P. A. Myers. No. 1,146,729; July 13; Gaz. vol. 216; p. 633.
- Pump-lining extractor. C. S. Wright. No. 1,126,612; Jan. 26; Gaz. vol. 210; p. 1323.
- Pump, Lubricator-. J. P. Herman. No. 1,136,334; Apr. 20; Gaz. vol. 213; p. 879.
- Pump, Measuring-. J. E. Lowe. No. 1,131,912; Mar. 9; Gaz. vol. 212; p. 407.
- Pump, Measuring-. F. J. Young. No. 1,143,158; June 15; Gaz. vol. 215; p. 802.
- Pump mechanism. E. B. Thompson. No. 1,156,724; Oct. 12; Gaz. vol. 219; p. 513.
- Pump mechanism for internal-combustion engines. B. Kramer. No. 1,158,062; Oct. 26; Gaz. vol. 219; p. 1075.
- Pump, Mercury-. D. J. O'Brien. No. 1,154,585; Sept. 21; Gaz. vol. 218; p. 851.
- Pump-meter. L. Kessler. No. 1,148,095; July 27; Gaz. vol. 216; p. 1161.
- Pump, Multi-impeller single-stage centrifugal. J. H. Sebald. No. 1,158,569; Nov. 2; Gaz. vol. 220; p. 57.
- Pump, Multistage centrifugal. A. V. Mueller. No. 1,130,422; Mar. 2; Gaz. vol. 212; p. 203.
- Pump, Multistage centrifugal. J. H. Sebald. No. 1,165,543; Dec. 28; Gaz. vol. 221; p. 1105.
- Pump, Multistage centrifugal. G. Sulzer. No. 1,129,139; Feb. 23; Gaz. vol. 211; p. 991.
- Pump of the rotary type, Wet vacuum-. M. Leblanc. No. 1,157,703; Oct. 26; Gaz. vol. 219; p. 950.
- Pump, Oil-. A. Loomis. No. 1,150,527; Aug. 17; Gaz. vol. 217; p. 891.
- Pump, Oil-. E. V. Reno and J. A. C. Bois. No. 1,135,617; Apr. 13; Gaz. vol. 213; p. 587.
- Pump-operating means. S. F. Bowser. No. 1,137,114; Apr. 27; Gaz. vol. 213; p. 1195.
- Pump-operating mechanism. S. V. Ferguson. No. 1,160,270; Nov. 16; Gaz. vol. 220; p. 739.
- Pump-operating mechanism. N. A. Swensson. No. 1,150,553; Aug. 17; Gaz. vol. 217; p. 902.
- Pump or compressor. E. W. H. McMichael. No. 1,148,033; July 27; Gaz. vol. 216; p. 1138.
- Pump or compressor, Air. H. W. Hancock. No. 1,160,166; Nov. 16; Gaz. vol. 220; p. 704.
- Pump or fluid-pressure motor, Variable-delivery. J. Robson. No. 1,147,893; July 27; Gaz. vol. 216; p. 1088.
- Pump or motor. C. R. Pratt. No. 1,163,849; Dec. 14; Gaz. vol. 221; p. 436.
- Pump or motor. F. Reaugh. No. 1,136,976; Apr. 27; Gaz. vol. 213; p. 1143.
- Pump, Percolator-. J. B. Griffin. No. 1,142,322; June 8; Gaz. vol. 215; p. 470.
- Pump-piston. E. C. Vezie. No. 1,162,265; Nov. 30; Gaz. vol. 220; p. 1534.
- Pump-plunger. G. H. Wrightson, Jr. No. 1,133,778; Mar. 30; Gaz. vol. 212; p. 1552.
- Pump, Pneumatic. A. J. Tyler. No. 1,139,930; May 18; Gaz. vol. 214; p. 850.
- Pump, Portable force-. J. Farner. No. 1,134,042; Mar. 30; Gaz. vol. 212; p. 1640.
- Pump, Pressure-. R. Huff. No. 1,160,411; Nov. 16; Gaz. vol. 220; p. 788.
- Pump-regulating mechanism. R. Conrader. No. 1,135,360; Apr. 13; Gaz. vol. 213; p. 495.
- Pump-rod connection, Wind-wheel. G. L. Dixon. No. 1,156,065; Oct. 12; Gaz. vol. 219; p. 283.
- Pump-rod connector. M. Hartner. No. 1,141,795; June 1; Gaz. vol. 215; p. 249.
- Pump-rod counterbalance mechanism. E. Mainwaring. No. 1,150,871; Aug. 24; Gaz. vol. 217; p. 1070.
- Pump-rod coupling. C. P. Thompson. No. 1,133,513; Mar. 30; Gaz. vol. 212; p. 1456.
- Pump-rod shoe. E. E. Izer. No. 1,148,777; Aug. 3; Gaz. vol. 217; p. 106.
- Pump-rods and pipes, Grab for. J. W. Birdseye. No. 1,148,495; Aug. 3; Gaz. vol. 217; p. 4.
- Pump, Rotary. D. C. Baker and H. F. Hansen. No. 1,123,977; Jan. 5; Gaz. vol. 210; p. 264.
- Pump, Rotary. D. C. Baker and H. F. Hansen. No. 1,136,756; Apr. 20; Gaz. vol. 213; p. 1080.
- Pump, &c., Rotary. H. Brousseau. No. 1,128,579; Feb. 16; Gaz. vol. 211; p. 759.
- Pump, Rotary. C. A. Despain. No. 1,125,901; Jan. 19; Gaz. vol. 210; p. 1032.
- Pump, Rotary. O. C. Goeriz. No. 1,154,110; Sept. 21; Gaz. vol. 218; p. 688.
- Pump, Rotary. W. G. Hawley. No. 1,129,091; Feb. 23; Gaz. vol. 211; p. 974.
- Pump, Rotary. J. O. Heinze, Jr. No. 1,132,263; Mar. 16; Gaz. vol. 212; p. 919.
- Pump, Rotary. T. Hye, W. B. Campbell, and T. A. Bate-man. No. 1,140,983; May 25; Gaz. vol. 214; p. 1255.
- Pump, Rotary. I. J. Johnson and H. McClelland. No. 1,143,200; June 15; Gaz. vol. 215; p. 818.
- Pump, Rotary. A. T. Keene. No. 1,157,783; Oct. 26; Gaz. vol. 219; p. 976.
- Pump, Rotary. J. R. Kinney. No. 1,135,291; Apr. 13; Gaz. vol. 213; p. 471.
- Pump, Rotary. J. R. Kinney. No. 1,137,215; Apr. 27; Gaz. vol. 213; p. 1231.
- Pump, Rotary. V. G. Munson. No. 1,128,999; Feb. 16; Gaz. vol. 211; p. 906.
- Pump, Rotary. W. E. Shore. No. 1,153,873; Sept. 14; Gaz. vol. 218; p. 573.
- Pump, Rotary. E. B. Thompson. No. 1,150,079; Aug. 17; Gaz. vol. 217; p. 733.
- Pump, Rotary Build-. A. P. Brush. No. 1,162,848; Dec. 7; Gaz. vol. 221; p. 41.
- Pump, Rotary gear-. A. Sundh. No. 1,132,747; Mar. 23; Gaz. vol. 212; p. 1143.
- Pump, Rotary piston-. S. Thune. No. 1,152,453; Sept. 7; Gaz. vol. 218; p. 25.
- Pump, Sand-. C. T. Mapes. No. 1,145,158; July 6; Gaz. vol. 216; p. 65.
- Pump, Spark-plug. F. C. H. Strasburger. No. 1,139,917; May 18; Gaz. vol. 214; p. 846.
- Pump, Spray and stream. H. H. Gage. No. 1,129,286; Feb. 23; Gaz. vol. 211; p. 1042.
- Pump starter, Air-. C. E. L. Lipman. No. 1,126,041; Jan. 26; Gaz. vol. 210; p. 1114.
- Pump, Steam vacuum-. J. G. Robinson. No. 1,138,893; May 11; Gaz. vol. 214; p. 450.
- Pump strainer attachment. C. H. Hanshaw. No. 1,140,678; May 25; Gaz. vol. 214; p. 1147.
- Pump, Stroke-regulator for windmill-. A. E. Gault. No. 1,138,550; May 4; Gaz. vol. 214; p. 289.
- Pump, Suction-. J. Fiala. No. 1,161,383; Nov. 23; Gaz. vol. 220; p. 1182.
- Pump system. F. C. Crowe. No. 1,128,590; Feb. 16; Gaz. vol. 211; p. 763.
- Pump, Tire-. H. C. Hanson. No. 1,142,701; June 8; Gaz. vol. 215; p. 602.
- Pump transmission mechanism. J. O. Shafer. No. 1,135,060; Apr. 13; Gaz. vol. 213; p. 394.
- Pump, Turbine-. W. A. Doble. No. 1,135,364; Apr. 13; Gaz. vol. 213; p. 496.
- Pump, Turbine-. F. W. Krogh. No. 1,135,296; Apr. 13; Gaz. vol. 213; p. 473.
- Pump, Turbine-. F. W. Krogh. No. 1,163,243; Dec. 7; Gaz. vol. 221; p. 178.
- Pump, turbine-blower, and propeller, Turbine-. A. Büchi. No. 1,158,978; Nov. 2; Gaz. vol. 220; p. 197.
- Pump, turbine, condenser, and the like, Centrifugal. E. S. G. Rees. No. 1,166,257; Dec. 28; Gaz. vol. 221; p. 1361.
- Pump, Turbine water-. A. Wahle. No. 1,146,375; July 13; Gaz. vol. 216; p. 510.
- Pump-unloading valve. E. Taylor. No. 1,128,077; Feb. 9; Gaz. vol. 211; p. 537.
- Pump, Vacuum-. C. Brent. No. 1,145,181; July 6; Gaz. vol. 216; p. 72.
- Pump, Vacuum-. W. Gaede. No. 1,137,751; May 4; Gaz. vol. 214; p. 10.
- Pump, Vacuum-. C. N. Sowden. No. 1,160,207; Nov. 16; Gaz. vol. 220; p. 717.
- Pump-valve. W. T. Angell. No. 1,159,347; Nov. 9; Gaz. vol. 220; p. 357.
- Pump-valve. W. T. Birch. No. 1,140,869; May 25; Gaz. vol. 214; p. 1214.
- Pump-valve. C. A. Conn. No. 1,129,072; Feb. 23; Gaz. vol. 211; p. 967.
- Pump-valve. R. D. Durfee. No. 1,151,449; Aug. 24; Gaz. vol. 217; p. 1262.
- Pump-valve. T. Grisenthwaite. No. 1,146,247; July 13; Gaz. vol. 216; p. 466.
- Pump valve, Deep-well-. R. M. Downie. No. 1,161,851; Nov. 30; Gaz. vol. 220; p. 1388.
- Pump-valve pot. J. H. Sebald. No. 1,133,406; Mar. 30; Gaz. vol. 212; p. 1418.
- Pump, Variable-feed. G. D. Pogue. No. 1,154,723; Sept. 28; Gaz. vol. 218; p. 926.
- Pump, Variable-stroke fuel-. O. F. Persson. No. 1,132,284; Mar. 16; Gaz. vol. 212; p. 927.
- Pump, Vertical steam-. K. Dougan. No. 1,136,216; Apr. 20; Gaz. vol. 213; p. 837.
- Pump, Well-. G. E. White. No. 1,138,432; May 4; Gaz. vol. 214; p. 251.

Alphabetical list of inventions—Continued.

- Pump with rotating abutment protruding into a circular groove, Rotary. C. J. Rixen. No. 1,157,806; Oct. 26; Gaz. vol. 219; p. 984.
- Pumps and other machinery, End-thrust counterbalance for centrifugal. J. A. Yeatman. No. 1,165,739; Dec. 28; Gaz. vol. 221; p. 1176.
- Pumps and rotary engines, Means for regulating rotary. G. Silvestri. No. 1,141,016; May 25; Gaz. vol. 214; p. 1265.
- Pumps and the like, Adjustable pointer and stop for. S. F. Bowser. No. 1,137,455; Apr. 27; Gaz. vol. 213; p. 1319.
- Pumps, Apparatus for regulating the output of centrifugal. G. Silvestri. No. 1,141,015; May 25; Gaz. vol. 214; p. 1265.
- Pumps, Automatic air-exhaust for centrifugal. C. E. Grunsky. No. 1,157,216; Oct. 19; Gaz. vol. 219; p. 716.
- Pumps, Automatic drain and oiling system for deep-well. A. C. Paulsmeler. No. 1,164,012; Dec. 14; Gaz. vol. 221; p. 492.
- Pumps, Automatic releasing device for pressure-. A. G. and B. L. Gifford. No. 1,128,596; Feb. 16; Gaz. vol. 211; p. 765.
- Pumps, Balancing means for centrifugal. F. W. Krogh. No. 1,146,078; July 13; Gaz. vol. 216; p. 406.
- Pumps, Balancing of centrifugal. P. A. Peterson. No. 1,151,964; Aug. 31; Gaz. vol. 217; p. 1488.
- Pumps, Balancing of centrifugal. P. A. Peterson. No. 1,151,965; Aug. 31; Gaz. vol. 217; p. 1489.
- Pumps, Check-controlled apparatus for. M. D. Van Auken. No. 1,127,550; Feb. 9; Gaz. vol. 211; p. 350.
- Pumps, Control device for rotary boiler-feed. J. Petermoller. No. 1,129,009; Feb. 16; Gaz. vol. 211; p. 910.
- Pumps, Cooling and lubricating device for vacuum-. G. D. May. No. 1,156,700; Oct. 12; Gaz. vol. 219; p. 504.
- Pumps, motors, &c., Balanced-crank mechanism for. C. M. Manly and H. Centervall. No. 1,137,877; May 4; Gaz. vol. 214; p. 53.
- Pumps, Mounting for velocipede-. G. A. Maglin. No. 1,163,429; Dec. 7; Gaz. vol. 221; p. 243.
- Pumps, Non-leak seat and anchor for liner-. C. Drader and R. R. Candee. No. 1,151,765; Aug. 31; Gaz. vol. 217; p. 1419.
- Pumps or motors, Valve for hydraulic. T. A. Killman. No. 1,124,749; Jan. 12; Gaz. vol. 210; p. 587.
- Pumps, Packer for oil-well. A. J. McNallen. No. 1,164,655; Dec. 21; Gaz. vol. 221; p. 757.
- Pumps, Power-transmitting mechanism for. M. F. Fulford. No. 1,156,002; Oct. 5; Gaz. vol. 219; p. 234.
- Pumps, Pressure-controlled electric switch for motor-operated. S. S. Stahl. No. 1,141,847; June 1; Gaz. vol. 215; p. 264.
- Pumps, Pressure device for boiler feed-. G. R. Henderson. No. 1,148,316; July 27; Gaz. vol. 216; p. 1240.
- Pumps, &c., Pressure-relieving device for. H. F. Hansen. No. 1,135,579; Apr. 13; Gaz. vol. 213; p. 573.
- Pumps, Pump-jack for double-acting-. F. W. Axtell. (Re-issue.) No. 1,387,0; Jan. 19; Gaz. vol. 210; p. 1040.
- Pumps, Regulation of boiler feed-. F. Hüttner. No. 1,147,401; July 20; Gaz. vol. 216; p. 890.
- Pumps, Rotary runner for rotary and centrifugal. J. A. Traylor. No. 1,131,294; Mar. 9; Gaz. vol. 212; p. 538.
- Pumps, Spring attachment for. J. O. Bane. No. 1,133,695; Mar. 30; Gaz. vol. 212; p. 1524.
- Pumps, turbines, blowers, and the like, Balancing device for centrifugal. F. Lorenz. No. 1,130,616; Mar. 2; Gaz. vol. 212; p. 271.
- Pumps, Valve for spraying-. D. W. Wadsworth. No. 1,142,289; June 8; Gaz. vol. 215; p. 459.
- Pumping and pressure-regulating system. E. M. Caskey. No. 1,151,661; Aug. 31; Gaz. vol. 217; p. 1384.
- Pumping apparatus. V. P. Bailey. No. 1,140,939; May 25; Gaz. vol. 214; p. 1240.
- Pumping apparatus. C. Smith. No. 1,126,109; Jan. 26; Gaz. vol. 210; p. 1141.
- Pumping apparatus, Air-. R. V. Morse. No. 1,134,215; Apr. 6; Gaz. vol. 213; p. 48.
- Pumping apparatus, Bored well. B. Jackson, Sr., and B. Jackson, Jr. No. 1,140,828; May 25; Gaz. vol. 214; p. 1199.
- Pumping apparatus, Current-operated. J. M. Trull. No. 1,138,158; May 4; Gaz. vol. 214; p. 154.
- Pumping apparatus, Well-. G. A. Harper. No. 1,150,188; Aug. 17; Gaz. vol. 217; p. 774.
- Pumping device. T. E. Jones. No. 1,158,690; Nov. 2; Gaz. vol. 220; p. 98.
- Pumping-jack. C. B. Anderson. No. 1,153,746; Sept. 14; Gaz. vol. 218; p. 527.
- Pumping-jack. W. S. Poindexter. No. 1,162,509; Nov. 30; Gaz. vol. 220; p. 1618.
- Pumping-jack. J. Schullen. No. 1,146,765; July 13; Gaz. vol. 216; p. 646.
- Pumping-jack. L. D. Smith. No. 1,145,813; July 6; Gaz. vol. 216; p. 293.
- Pumping-jack. J. M. Stieger. No. 1,128,260; Feb. 9; Gaz. vol. 211; p. 599.
- Pumping-jack. A. T. Wolfe. No. 1,135,419; Apr. 13; Gaz. vol. 213; p. 516.
- Pumping-jack, Double-stroke. W. H. Winterborne. No. 1,132,538; Mar. 16; Gaz. vol. 212; p. 1019.
- Pumping machinery. M. T. Chapman. No. 1,124,295; Jan. 12; Gaz. vol. 210; p. 424.
- Pumping machinery. M. T. Chapman. No. 1,157,676; Oct. 26; Gaz. vol. 219; p. 940.
- Pumping machinery. M. T. and M. C. Chapman. No. 1,152,603; Sept. 7; Gaz. vol. 218; p. 82.
- Pumping mechanism. G. W. Dopkins. No. 1,127,742; Feb. 9; Gaz. vol. 211; p. 418.
- Pumping mechanism. L. S. Kaskie. No. 1,158,228; Oct. 26; Gaz. vol. 219; p. 1133.
- Pumping mechanism. L. Laurin. No. 1,151,278; Aug. 24; Gaz. vol. 217; p. 1208.
- Pumping-rig. J. P. Coffman. No. 1,146,404; July 13; Gaz. vol. 216; p. 520.
- Pumping system. H. F. Rosencrans. No. 1,148,054; July 27; Gaz. vol. 216; p. 1145.
- Pumping system. F. C. Weber. No. 1,136,070; Apr. 20; Gaz. vol. 213; p. 785.
- Pumping system. F. M. Wiseley. No. 1,150,473; Aug. 17; Gaz. vol. 217; p. 873.
- Pumping system, Vacuum-jet. T. L. Davenport. No. 1,152,302; Aug. 31; Gaz. vol. 217; p. 1605.
- Pumping water from wells, Apparatus for. D. Cabral. No. 1,164,989; Dec. 21; Gaz. vol. 221; p. 875.
- Punch. C. Dom. No. 1,152,886; Sept. 7; Gaz. vol. 218; p. 186.
- Punch. D. E. Lynch. No. 1,155,361; Oct. 5; Gaz. vol. 219; p. 13.
- Punch. M. A. McLane. No. 1,155,590; Oct. 5; Gaz. vol. 219; p. 91.
- Punch. O. A. Smith and B. F. Rindfleisch. No. 1,157,260; Oct. 19; Gaz. vol. 219; p. 733.
- Punch and clamping-tool, Combination. C. C. Gladwin. No. 1,144,120; June 22; Gaz. vol. 215; p. 1162.
- Punch and die, Adjustable. C. C. Gladwin. No. 1,138,860; May 11; Gaz. vol. 214; p. 440.
- Punch-center indicator. L. Rogers. No. 1,166,261; Dec. 28; Gaz. vol. 221; p. 1363.
- Punch, Clip-. K. P. Stevens. No. 1,123,419; Jan. 5; Gaz. vol. 210; p. 76.
- Punch, Gang-. C. H. Albert. No. 1,164,158; Dec. 14; Gaz. vol. 221; p. 543.
- Punch, Hand-. R. P. Stevens. No. 1,146,971; July 20; Gaz. vol. 216; p. 739.
- Punch, Hand-operated cold-. F. W. Robinson. No. 1,142,627; June 8; Gaz. vol. 215; p. 578.
- Punch-machines, Stripper for. F. A. Stevenson. No. 1,149,226; Aug. 10; Gaz. vol. 217; p. 365.
- Punch, Paper-fastening. M. Gessler. No. 1,148,672; Aug. 3; Gaz. vol. 217; p. 68.
- Punch-press. A. W. Gustafson. No. 1,124,893; Jan. 12; Gaz. vol. 210; p. 639.
- Punch-press guard. P. T. Chapleau. No. 1,153,603; Sept. 14; Gaz. vol. 218; p. 478.
- Punch-press safety device. E. L. Gale, Sr. No. 1,127,356; Feb. 2; Gaz. vol. 211; p. 241.
- Punch-press safety device. R. C. Legat. No. 1,164,943; Dec. 21; Gaz. vol. 221; p. 858.
- Punch-shifting device. Z. P. Candee. No. 1,153,287; Sept. 14; Gaz. vol. 218; p. 363.
- Punch, Window-envelop. C. L. Nash. No. 1,127,914; Feb. 9; Gaz. vol. 211; p. 479.
- Punch, Window-envelop. C. L. Nash. No. 1,127,915; Feb. 9; Gaz. vol. 211; p. 480.
- Punching. W. Rawley. No. 1,156,928; Oct. 19; Gaz. vol. 219; p. 614.
- Punching and shearing machine. C. E. Macbeth and F. C. Stiening. No. 1,164,656; Dec. 21; Gaz. vol. 221; p. 757.
- Punching and shearing machine. J. P. Reardon. No. 1,143,434; June 15; Gaz. vol. 215; p. 901.
- Punching device, Camber-. F. A. Stevenson. No. 1,164,026; Dec. 14; Gaz. vol. 221; p. 497.
- Punching device, Transfer-. B. M. Shanklin. No. 1,127,814; Feb. 9; Gaz. vol. 211; p. 445.
- Punching-machine. W. A. Cornbrooks. No. 1,150,851; Aug. 24; Gaz. vol. 217; p. 1062.
- Punching-machine. P. A. Cuenot and L. G. Fischer. No. 1,155,552; Oct. 5; Gaz. vol. 219; p. 80.
- Punching-machine. C. A. Elton. No. 1,154,621; Sept. 28; Gaz. vol. 218; p. 892.
- Punching-machine. T. Lund. No. 1,161,059; Nov. 23; Gaz. vol. 220; p. 1064.
- Punching-machine. F. A. Stevenson. No. 1,164,028; Dec. 14; Gaz. vol. 221; p. 498.
- Punching-machine. E. A. Stiggins. No. 1,163,116; Dec. 7; Gaz. vol. 221; p. 133.
- Punching-machine. J. Wright. No. 1,153,410; Sept. 14; Gaz. vol. 218; p. 409.
- Punching machine, Channel-. F. A. Stevenson. No. 1,164,027; Dec. 14; Gaz. vol. 221; p. 498.
- Punching-machine gage device. L. C. Koehl. No. 1,135,531; Apr. 13; Gaz. vol. 213; p. 555.
- Punching machine, Metal-. C. H. Sedgwick. No. 1,132,490; Mar. 16; Gaz. vol. 212; p. 1001.
- Punching-machine, Multiple. G. P. Thomas. No. 1,141,221; June 1; Gaz. vol. 215; p. 46.
- Punching-machine safety device. C. F. Root. No. 1,131,161; Mar. 9; Gaz. vol. 212; p. 491.
- Punching-machines, Automatic feed for. G. C. Lees. No. 1,133,649; Mar. 30; Gaz. vol. 212; p. 1505.

Alphabetical list of inventions—Continued.

- Punching rubber nipples, Machine for. J. L. Mahoney. No. 1,144,045; June 22; Gaz. vol. 215; p. 1136.
- Puncture-mending device. H. T. Stephens. No. 1,131,745; Mar. 16; Gaz. vol. 212; p. 729.
- Puncture-proof wheel. W. J. Higgs. No. 1,152,508; Sept. 7; Gaz. vol. 218; p. 46.
- Purchase-board. Novelty. R. Hollien. No. 1,145,417; July 6; Gaz. vol. 216; p. 154.
- Purse. A. Hausammann. No. 1,143,825; June 22; Gaz. vol. 215; p. 1058.
- Purse. J. A. Kovessy. No. 1,154,122; Sept. 21; Gaz. vol. 218; p. 692.
- Purse. A. J. Meier. No. 1,138,882; May 11; Gaz. vol. 214; p. 447.
- Purses and wallets, Safety device for pocket. V. O. Rurdell. No. 1,148,825; Aug. 3; Gaz. vol. 217; p. 122.
- Push-button. W. W. Barclay, Jr. No. 1,128,744; Feb. 16; Gaz. vol. 211; p. 815.
- Push-button. C. J. Klein. No. 1,143,207; June 15; Gaz. vol. 215; p. 821.
- Push-button. G. E. and E. B. Roedding. No. 1,135,926; Apr. 13; Gaz. vol. 213; p. 693.
- Push-button mechanism. F. H. Mason. No. 1,146,010; July 13; Gaz. vol. 216; p. 382.
- Push-button or circuit-closer. L. C. F. Metzger. No. 1,130,994; Mar. 9; Gaz. vol. 212; p. 435.
- Push-button switch. A. W. Gray. No. 1,126,985; Feb. 2; Gaz. vol. 211; p. 113.
- Push-rake. E. C. Smith. No. 1,130,032; Mar. 2; Gaz. vol. 212; p. 66.
- Putrefaction-chamber. M. Kusch. No. 1,123,320; Jan. 5; Gaz. vol. 210; p. 42.
- Puttee. E. Saubestre. No. 1,138,152; May 4; Gaz. vol. 214; p. 152.
- Putty-knife, Corner. B. Churchill. No. 1,156,209; Oct. 12; Gaz. vol. 219; p. 332.
- Puzzle. C. B. Brewer. No. 1,139,253; May 11; Gaz. vol. 214; p. 576.
- Puzzle. J. A. Brogan and M. Bruner. No. 1,132,430; Mar. 16; Gaz. vol. 212; p. 979.
- Puzzle. E. O. Bulman. No. 1,146,844; July 20; Gaz. vol. 216; p. 693.
- Puzzle. F. O. Degenhardt. No. 1,132,244; Mar. 16; Gaz. vol. 212; p. 913.
- Puzzle. A. P. Dulgeroff. No. 1,129,281; Feb. 23; Gaz. vol. 211; p. 1040.
- Puzzle. W. Fitzgerald. No. 1,133,546; Mar. 30; Gaz. vol. 212; p. 1468.
- Puzzle. R. J. Hogl. No. 1,138,108; May 4; Gaz. vol. 214; p. 137.
- Puzzle. R. Hutchison. No. 1,148,489; July 27; Gaz. vol. 216; p. 1299.
- Puzzle. C. J. Kortz. No. 1,165,980; Dec. 28; Gaz. vol. 221; p. 1268.
- Puzzle. C. H. Kramb. No. 1,140,600; May 25; Gaz. vol. 214; p. 1122.
- Puzzle. E. J. McFall. No. 1,143,418; June 15; Gaz. vol. 215; p. 895.
- Puzzle. C. H. Quarles. No. 1,133,061; Mar. 23; Gaz. vol. 212; p. 1260.
- Puzzle. A. Reibstein. No. 1,151,615; Aug. 31; Gaz. vol. 217; p. 1369.
- Puzzle. F. W. Rice. No. 1,129,604; Feb. 23; Gaz. vol. 211; p. 1155.
- Puzzle. A. P. Simao. No. 1,154,136; Sept. 21; Gaz. vol. 218; p. 697.
- Puzzle. L. G. Steen. No. 1,137,805; May 4; Gaz. vol. 214; p. 29.
- Puzzle. J. J. Tiernan. No. 1,144,799; June 29; Gaz. vol. 215; p. 1425.
- Puzzle. W. Zolper. No. 1,130,461; Mar. 2; Gaz. vol. 212; p. 218.
- Puzzle. Chart. E. J. Barrett. No. 1,148,885; Aug. 3; Gaz. vol. 217; p. 142.
- Pyrite or other iron sulfids, Treatment of. L. T. Wright. No. 1,164,049; Dec. 14; Gaz. vol. 221; p. 506.
- Pyrographic needle. M. R. Carr. No. 1,137,573; Apr. 27; Gaz. vol. 213; p. 1358.
- Pyrometer. K. W. Zimmerschied. No. 1,142,133; June 8; Gaz. vol. 215; p. 406.
- Pyrometer method and apparatus. T. W. Clark. No. 1,147,483; July 20; Gaz. vol. 216; p. 918.
- Pyrometer, Radiation-. R. S. Whipple. No. 1,125,233; Jan. 19; Gaz. vol. 210; p. 795.
- Pyrotechnical device. A. Jedel. No. 1,163,756; Dec. 14; Gaz. vol. 221; p. 404.
- Pyroxylin bodies, Forming. F. Kniffen. No. 1,135,026; Apr. 13; Gaz. vol. 213; p. 382.
- Pyroxylin composition. C. Ellis. No. 1,147,850; July 27; Gaz. vol. 216; p. 1073.
- Pyroxylin compounds, Covering thin articles with. E. J. Koontz. No. 1,148,908; Aug. 3; Gaz. vol. 217; p. 151.
- Pyrrolidin derivative. A. Thiele. No. 1,148,637; Aug. 3; Gaz. vol. 217; p. 56.
- Quads, Divider for forms of tabular. W. L. Springer. No. 1,140,775; May 25; Gaz. vol. 214; p. 1179.
- Quick-acting wrench. F. G. Rockwood. No. 1,156,932; Oct. 19; Gaz. vol. 219; p. 615.
- Quick-action wrench. J. Jurgea. No. 1,127,262; Feb. 2; Gaz. vol. 211; p. 210.
- Quick-action wrench. S. Lauff. No. 1,136,540; Apr. 20; Gaz. vol. 213; p. 953.
- Quick-action wrench. J. J. Markovich. No. 1,147,181; July 20; Gaz. vol. 216; p. 811.
- Quick-acting wrench. R. McMillen. No. 1,163,428; Dec. 7; Gaz. vol. 221; p. 243.
- Quick-opening box. G. Z. Sutton. No. 1,152,355; Aug. 31; Gaz. vol. 217; p. 1624.
- Quick-release wrench. S. Lauff. No. 1,136,539; Apr. 20; Gaz. vol. 213; p. 953.
- Quilting apparatus. L. M. Caruth. No. 1,151,440; Aug. 24; Gaz. vol. 217; p. 1260.
- Quilting-frame. L. Shore. No. 1,163,378; Dec. 7; Gaz. vol. 221; p. 225.
- Quinolin compound and producing the same. A. B. Davis. No. 1,138,936; May 11; Gaz. vol. 214; p. 464.
- Quinolin compound and producing the same. A. B. Davis. No. 1,138,937; May 11; Gaz. vol. 214; p. 465.
- Quoit. W. J. Martin. No. 1,138,234; May 4; Gaz. vol. 214; p. 179.
- Rabbit-hutch, Portable. P. F. Caldwell. No. 1,159,744; Nov. 9; Gaz. vol. 220; p. 500.
- Rack: See—
- Baggage-rack.
 - Baking-rack.
 - Ball-rack.
 - Ball and cue rack.
 - Barrel-rack.
 - Bottle-holding rack.
 - Box-rack.
 - Broom-rack.
 - Cable-rack.
 - Card-rack.
 - Chain-rack.
 - Clothes-rack.
 - Clothes-drying rack.
 - Coat and hat rack.
 - Cue-rack.
 - Diaper-drying rack.
 - Display-rack.
 - Dump-rack.
 - Electric-wire-display rack.
 - Engine-rack.
 - Feed-rack.
 - Fork-rack.
 - Garment-rack.
 - Hanger-rack.
 - Hay-rack.
 - Hay and stock rack.
 - Hose-rack.
 - Icing-rack.
 - Knife-rack.
 - Linoleum-rack.
 - Load-supporting rack.
 - Mail-bag rack.
 - Negative-drying rack.
 - Oil-cloth rack.
 - Pail-rack.
 - Painter's rack.
 - Paper-dispensing rack.
 - Pen-rack.
 - Pencil-rack.
 - Screen-wire-cloth rack.
 - Secondary rack.
 - Stamp-rack.
 - Stock-rack.
 - Stove-rack.
 - Supporting-rack.
 - Suspension-rack.
 - Table-rack.
 - Tent-rack.
 - Thread-rack.
 - Ticket-rack.
 - Tire-rack.
 - Toilet-rack.
 - Towel-rack.
 - Vehicle-rack.
 - Wagon-brake rack.
 - Wardrobe-rack.
 - Wire-cloth rack.
- Rack. W. P. Hammond. No. 1,131,235; Mar. 9; Gaz. vol. 212; p. 517.
- Rack. F. J. Hetzner. No. 1,163,821; Dec. 14; Gaz. vol. 221; p. 428.
- Rack. E. J. Kennedy. No. 1,146,715; July 13; Gaz. vol. 216; p. 628.
- Rack. J. S. Snetten. No. 1,124,822; Jan. 12; Gaz. vol. 210; p. 613.
- Rack-and-pinion device. F. E. Mann. No. 1,145,157; July 6; Gaz. vol. 216; p. 64.
- Rack-and-pinion mechanism. F. M. Theisen. No. 1,133,415; Mar. 30; Gaz. vol. 212; p. 1421.
- Rack hook, Cup and saucer. I. B. Myers. No. 1,147,810; July 27; Gaz. vol. 216; p. 1058.
- Rack or holder. W. S. Thompson. No. 1,127,319; Feb. 2; Gaz. vol. 211; p. 228.
- Racket. R. Moore. No. 1,143,300; June 15; Gaz. vol. 215; p. 853.
- Racket-press. W. A. Johnson. No. 1,156,363; Oct. 12; Gaz. vol. 219; p. 385.
- Radiation-regulator. A. B. Wright. No. 1,152,585; Sept. 7; Gaz. vol. 218; p. 76.
- Radiation-shield. E. W. Kelly. No. 1,156,906; Oct. 19; Gaz. vol. 219; p. 606.
- Radiator. K. M. Boblett. No. 1,140,494; May 25; Gaz. vol. 214; p. 1085.
- Radiator. R. F. Burmeister. No. 1,159,357; Nov. 9; Gaz. vol. 220; p. 361.
- Radiator. G. E. Farlinger. No. 1,138,367; May 4; Gaz. vol. 214; p. 228.
- Radiator. J. M. Fedders. No. 1,139,114; May 11; Gaz. vol. 214; p. 529.
- Radiator. J. M. Fedders. No. 1,139,961; May 18; Gaz. vol. 214; p. 861.
- Radiator. J. M. Fedders. No. 1,148,448; July 27; Gaz. vol. 216; p. 1284.
- Radiator. W. Hawks. No. 1,131,372; Mar. 9; Gaz. vol. 212; p. 564.
- Radiator. P. E. Holt. No. 1,124,740; Jan. 12; Gaz. vol. 210; p. 584.
- Radiator. B. Holt. No. 1,143,967; June 22; Gaz. vol. 215; p. 1107.
- Radiator. R. J. Kiendl. No. 1,142,179; June 8; Gaz. vol. 215; p. 421.
- Radiator. J. A. Kuenz. No. 1,137,335; Apr. 27; Gaz. vol. 213; p. 1276.
- Radiator. J. J. Penhallegon. No. 1,147,339; July 20; Gaz. vol. 216; p. 866.
- Radiator. F. T. Riley. No. 1,123,380; Jan. 5; Gaz. vol. 210; p. 63.
- Radiator. M. Sigmund. No. 1,142,536; June 8; Gaz. vol. 215; p. 547.

- Radiator. H. T. Smith. No. 1,157,188; Oct. 19; Gaz. vol. 219; p. 706.
- Radiator. J. G. Wallmann. No. 1,124,366; Jan. 12; Gaz. vol. 210; p. 450.
- Radiator. F. B. Wentworth and L. F. Clausing. No. 1,138,819; May 11; Gaz. vol. 214; p. 424.
- Radiator, Aeroplane. A. Keresztury. No. 1,164,820; Dec. 21; Gaz. vol. 221; p. 815.
- Radiator attachment. J. Desjardins. No. 1,155,997; Oct. 5; Gaz. vol. 219; p. 232.
- Radiator attachment. J. F. Kitzrow. No. 1,125,120; Jan. 19; Gaz. vol. 210; p. 753.
- Radiator, Automobile. S. W. Coon. No. 1,166,327; Dec. 28; Gaz. vol. 221; p. 1384.
- Radiator, Automobile. B. C. Loring. No. 1,152,328; Aug. 31; Gaz. vol. 217; p. 1614.
- Radiator, Automobile. E. W. Spencer. No. 1,156,325; Oct. 12; Gaz. vol. 219; p. 370.
- Radiator bracket, Wall. J. P. Adamson. No. 1,158,151; Oct. 26; Gaz. vol. 219; p. 1106.
- Radiator-cap. O. A. Loew. No. 1,162,703; Nov. 30; Gaz. vol. 220; p. 1680.
- Radiator-cap ornament. F. R. Day. No. 1,165,652; Dec. 28; Gaz. vol. 221; p. 1145.
- Radiator connections, Fitting for hot-water. P. H. Carlyon, Jr. No. 1,141,611; June 1; Gaz. vol. 215; p. 187.
- Radiator cooling attachment. W. J. Hickey. No. 1,139,034; May 11; Gaz. vol. 214; p. 501.
- Radiator-core. J. S. Chimera. No. 1,164,923; Dec. 21; Gaz. vol. 221; p. 851.
- Radiator, Electric. J. D. Ross. No. 1,158,724; Nov. 2; Gaz. vol. 220; p. 109.
- Radiator, Electric, steam, and hot-water. J. D. Ross. No. 1,158,723; Nov. 2; Gaz. vol. 220; p. 109.
- Radiator, Fireplace. A. E. Peake. No. 1,128,358; Feb. 16; Gaz. vol. 211; p. 683.
- Radiator-fittings. F. E. Butts. No. 1,160,839; Nov. 16; Gaz. vol. 220; p. 942.
- Radiator foot-rest. A. E. Wendt. No. 1,149,880; Aug. 10; Gaz. vol. 217; p. 601.
- Radiator for motor-cars. H. W. Stock. No. 1,154,072; Sept. 21; Gaz. vol. 218; p. 675.
- Radiator, Gas-heating. G. Duchscherer. No. 1,151,575; Aug. 31; Gaz. vol. 217; p. 1354.
- Radiator-heating apparatus, Automobile. B. C. Knudsen. No. 1,124,462; Jan. 12; Gaz. vol. 210; p. 484.
- Radiator, Hot-air. D. Reym and M. Mayer. No. 1,160,761; Nov. 16; Gaz. vol. 220; p. 915.
- Radiator, Hot-air bed. J. Thwaites. No. 1,129,141; Feb. 23; Gaz. vol. 211; p. 992.
- Radiator-indicator, Automobile. F. B. Corey. No. 1,154,097; Sept. 21; Gaz. vol. 218; p. 684.
- Radiator-indicator attaching and positioning mechanism. E. R. Alexander. No. 1,162,673; Nov. 30; Gaz. vol. 220; p. 1669.
- Radiator-jacket. J. E. Robinson. No. 1,136,440; Apr. 20; Gaz. vol. 213; p. 918.
- Radiator ornament, Automobile. C. Stiles. No. 1,165,296; Dec. 21; Gaz. vol. 221; p. 981.
- Radiator, Portable electrically-heated. C. Schmidt. No. 1,141,888; June 1; Gaz. vol. 215; p. 279.
- Radiator-protector, Automobile. W. Stein. No. 1,165,461; Dec. 28; Gaz. vol. 221; p. 1077.
- Radiator seal, Steam. J. L. Judge. No. 1,134,135; Apr. 6; Gaz. vol. 213; p. 19.
- Radiator-section. E. C. F. Streichert. (Reissue.) No. 1,140,21; Nov. 23; Gaz. vol. 220; p. 1340.
- Radiator-section test apparatus. J. A. Goodrich. No. 1,151,007; Aug. 24; Gaz. vol. 217; p. 1115.
- Radiator-sections, Machine for connecting. C. Sonneborn. No. 1,158,868; Nov. 2; Gaz. vol. 220; p. 161.
- Radiator, Steam. J. P. Williams. No. 1,161,567; Nov. 23; Gaz. vol. 220; p. 1245.
- Radiator-support for autos. W. Peterson. No. 1,161,722; Nov. 23; Gaz. vol. 220; p. 1297.
- Radiator-tanks, Filling-thimble for. R. Huff. No. 1,146,426; July 13; Gaz. vol. 216; p. 528.
- Radiator-trap. C. A. Dunham. No. 1,128,425; Feb. 16; Gaz. vol. 211; p. 706.
- Radiator-valve, Thermostatic. C. Stickle. No. 1,140,083; May 18; Gaz. vol. 214; p. 905.
- Radiators and the like, Cap for automobile. H. S. Morgan. No. 1,134,890; Apr. 6; Gaz. vol. 213; p. 289.
- Radiators, Electric heating attachment for. T. A. Steller. No. 1,124,548; Jan. 12; Gaz. vol. 210; p. 516.
- Radiators, Foot-rest for. N. A. Peot, Jr. No. 1,143,859; June 22; Gaz. vol. 215; p. 1069.
- Radiators, Making sheet-metal. C. Sonneborn. No. 1,158,576; Nov. 2; Gaz. vol. 220; p. 59.
- Radio-active substances by absorption from solutions, Manufacture, isolation, and enrichment of. E. Ebler. No. 1,142,153; June 8; Gaz. vol. 215; p. 412.
- Radio-activity in varying substances, Portable generator for producing. C. R. Heberling and A. H. Low. No. 1,149,829; Aug. 10; Gaz. vol. 217; p. 584.
- Radio communication, Apparatus for. G. W. Pickard. No. 1,127,921; Feb. 9; Gaz. vol. 211; p. 481.
- Radiotelegraphic antennae, System for direct energization of. E. Girardeau and J. Bethenod. No. 1,145,239; July 6; Gaz. vol. 216; p. 93.
- Radiotelegraphic plant. E. Girardeau. No. 1,151,098; Aug. 24; Gaz. vol. 217; p. 1145.
- Radiotelegraphic receivers, Process and apparatus for determining the position of. A. Meissner. No. 1,135,604; Apr. 13; Gaz. vol. 213; p. 582.
- Radiothorium and solutions therefrom containing thorium-X, Obtaining. B. Keetman. No. 1,151,187; Aug. 24; Gaz. vol. 217; p. 1176.
- Radium ores and residues, Concentrating. O. P. C. Bredt. No. 1,154,231; Sept. 21; Gaz. vol. 218; p. 728.
- Radium residues and the separation of radium compounds therefrom, Production of. O. P. C. Bredt. No. 1,154,230; Sept. 21; Gaz. vol. 218; p. 728.
- Radius-rod attachment means. R. H. Hassler. No. 1,164,618; Dec. 14; Gaz. vol. 221; p. 702.
- Radius-rod, Volute-spring-equipped. R. H. Hassler. No. 1,165,405; Dec. 28; Gaz. vol. 221; p. 1058.
- Raft. S. and F. Fallaci. No. 1,162,590; Nov. 30; Gaz. vol. 220; p. 1643.
- Raft, Knockdown. J. H. Maxwell. No. 1,151,115; Aug. 24; Gaz. vol. 217; p. 1151.
- Raft, Log. G. G. Davis. No. 1,142,239; June 8; Gaz. vol. 215; p. 442.
- Rafts, Cradle for log. P. F. Dundon. No. 1,130,584; Mar. 2; Gaz. vol. 212; p. 260.
- Rafter-bracket. P. J. Foley. No. 1,129,462; Feb. 23; Gaz. vol. 211; p. 1105.
- Rafter-cutting, Bevel-finder for. A. Wright. No. 1,125,246; Jan. 19; Gaz. vol. 210; p. 800.
- Rafter-tool. C. A. Doner. No. 1,125,010; Jan. 12; Gaz. vol. 210; p. 680.
- Rafting logs, Method of and apparatus for. C. E. Evans. No. 1,132,767; Mar. 23; Gaz. vol. 212; p. 1151.
- Rail. J. J. Caloy. No. 1,125,463; Jan. 19; Gaz. vol. 210; p. 877.
- Rail. J. A. Hall. No. 1,166,363; Dec. 28; Gaz. vol. 221; p. 1398.
- Rail. J. C. Woods. No. 1,153,989; Sept. 21; Gaz. vol. 218; p. 646.
- Rail. W. H. Wright. No. 1,153,990; Sept. 21; Gaz. vol. 218; p. 646.
- Rail, Adjustable guard-. J. Smoter. No. 1,161,741; Nov. 23; Gaz. vol. 220; p. 1303.
- Rail-anchor. W. A. Bock. No. 1,126,694; Feb. 2; Gaz. vol. 211; p. 9.
- Rail-anchor. J. A. Bodkin. No. 1,146,994; July 20; Gaz. vol. 216; p. 748.
- Rail-anchor. I. J. Bradshaw. No. 1,124,206; Jan. 5; Gaz. vol. 210; p. 344.
- Rail-anchor. T. Davison. No. 1,136,777; Apr. 20; Gaz. vol. 213; p. 1037.
- Rail-anchor. F. G. Dunbar. No. 1,144,532; June 29; Gaz. vol. 215; p. 1332.
- Rail-anchor. E. Laas. No. 1,123,557; Jan. 5; Gaz. vol. 210; p. 122.
- Rail-anchor. J. E. McNeil. No. 1,165,193; Dec. 21; Gaz. vol. 221; p. 946.
- Rail-anchor. P. W. Moore. No. 1,128,348; Feb. 16; Gaz. vol. 211; p. 679.
- Rail-anchor. P. W. Moore. No. 1,128,349; Feb. 16; Gaz. vol. 211; p. 680.
- Rail-anchor. P. W. Moore. No. 1,128,350; Feb. 16; Gaz. vol. 211; p. 680.
- Rail-anchor. P. W. Moore. No. 1,159,065; Nov. 2; Gaz. vol. 220; p. 226.
- Rail-anchor. W. V. Osborne. No. 1,129,004; Feb. 16; Gaz. vol. 211; p. 909.
- Rail-anchor. C. D. Porterfield. No. 1,136,612; Apr. 20; Gaz. vol. 213; p. 979.
- Rail-anchor. F. C. Regan. No. 1,124,171; Jan. 5; Gaz. vol. 210; p. 331.
- Rail-anchor. J. M. Scott. No. 1,135,549; Apr. 13; Gaz. vol. 213; p. 562.
- Rail-anchor. J. M. Scott. No. 1,143,077; June 15; Gaz. vol. 215; p. 774.
- Rail-anchor. A. H. Smith and G. W. Nibbe. No. 1,139,816; May 18; Gaz. vol. 214; p. 811.
- Rail-anchor. H. H. Sponenburg. No. 1,123,610; Jan. 5; Gaz. vol. 210; p. 141.
- Rail-anchor. A. L. Stanford. No. 1,129,816; Feb. 23; Gaz. vol. 211; p. 1223.
- Rail-anchor. A. L. Stanford. No. 1,139,381; May 11; Gaz. vol. 214; p. 620.
- Rail-anchor. F. C. Stuckel. No. 1,159,430; Nov. 9; Gaz. vol. 220; p. 388.
- Rail-anchor. W. A. Walker. No. 1,134,567; Apr. 6; Gaz. vol. 213; p. 177.
- Rail-anchor and tie-plate, Combined. J. W. Thomas. No. 1,137,810; May 4; Gaz. vol. 214; p. 31.
- Rail and railway-crossing. W. J. Infield. No. 1,145,142; July 6; Gaz. vol. 216; p. 59.
- Rail and support, Under-contact. A. Gollos. No. 1,158,203; Oct. 26; Gaz. vol. 219; p. 1124.
- Rail-anticreep. L. Lebiovitz. No. 1,163,548; Dec. 7; Gaz. vol. 221; p. 283.
- Rail anticreeping clamp. M. Swarny. No. 1,127,314; Feb. 2; Gaz. vol. 211; p. 227.
- Rail-antispreeding attachment. M. E. Simpson. No. 1,138,510; May 4; Gaz. vol. 214; p. 276.
- Rail-antispreeding device. F. M. Stackpole. No. 1,129,750; Feb. 23; Gaz. vol. 211; p. 1201.

Alphabetical list of inventions—Continued.

- Rail attachment, Guard-. C. Pasel. No. 1,154,335; Sept. 21; Gaz. vol. 218; p. 766.
- Rail-bender. W. T. Walker. No. 1,127,124; Feb. 2; Gaz. vol. 211; p. 163.
- Rail-bender, Reversible. M. A. Bodkin. No. 1,136,463; Apr. 20; Gaz. vol. 213; p. 925.
- Rail bending and straightening device. J. S. Crawford. No. 1,129,961; Mar. 2; Gaz. vol. 212; p. 43.
- Rail bending or straightening implement. G. T. McElroy. No. 1,139,878; May 18; Gaz. vol. 214; p. 833.
- Rail-bond. G. A. Merkt. No. 1,151,264; Sept. 21; Gaz. vol. 218; p. 741.
- Rail-bond. C. P. Vaill. No. 1,157,603; Oct. 19; Gaz. vol. 219; p. 849.
- Rail-bonding device. A. A. Ziegler. No. 1,154,903; Sept. 28; Gaz. vol. 218; p. 987.
- Rail-brace. A. T. Angle. No. 1,136,753; Apr. 20; Gaz. vol. 213; p. 1030.
- Rail-brace. J. H. Batten. No. 1,147,671; July 20; Gaz. vol. 216; p. 984.
- Rail-brace. W. D. Forsyth. No. 1,163,816; Dec. 14; Gaz. vol. 221; p. 426.
- Rail-brace and anchor tie-plate, Combined. T. J. Arledge. No. 1,155,868; Oct. 5; Gaz. vol. 219; p. 190.
- Rail-brace and tie-plate, Combined. J. O. Phelps. No. 1,155,270; Sept. 28; Gaz. vol. 218; p. 1111.
- Rail-brake, Electromagnetic. G. Mertens. No. 1,123,343; Jan. 5; Gaz. vol. 210; p. 51.
- Rail-chair. A. G. Liebmann. No. 1,126,496; Jan. 26; Gaz. vol. 210; p. 1278.
- Rail-chair. A. G. Liebmann. No. 1,126,497; Jan. 26; Gaz. vol. 210; p. 1279.
- Rail-chair. A. G. Liebmann. No. 1,126,498; Jan. 26; Gaz. vol. 210; p. 1279.
- Rail-chair. A. G. Liebmann. No. 1,126,500; Jan. 26; Gaz. vol. 210; p. 1280.
- Rail-chair. A. G. Liebmann. No. 1,126,501; Jan. 26; Gaz. vol. 210; p. 1281.
- Rail-chair. A. G. Liebmann. No. 1,126,502; Jan. 26; Gaz. vol. 210; p. 1281.
- Rail-chair. A. G. Liebmann. No. 1,126,503; Jan. 26; Gaz. vol. 210; p. 1282.
- Rail-chair. A. G. Liebmann. No. 1,126,504; Jan. 26; Gaz. vol. 210; p. 1282.
- Rail-chair. A. G. Liebmann. No. 1,126,505; Jan. 26; Gaz. vol. 210; p. 1283.
- Rail-chair. A. G. Liebmann. No. 1,126,506; Jan. 26; Gaz. vol. 210; p. 1283.
- Rail-chair. A. G. Liebmann. No. 1,126,507; Jan. 26; Gaz. vol. 210; p. 1283.
- Rail-chair. A. G. Liebmann. No. 1,126,508; Jan. 26; Gaz. vol. 210; p. 1284.
- Rail-chair. A. G. Liebmann. No. 1,126,509; Jan. 26; Gaz. vol. 210; p. 1285.
- Rail-chair. A. G. Liebmann. No. 1,126,512; Jan. 26; Gaz. vol. 210; p. 1286.
- Rail-chair. A. G. Liebmann. No. 1,126,513; Jan. 26; Gaz. vol. 210; p. 1286.
- Rail-chair. A. G. Liebmann. No. 1,126,520; Jan. 26; Gaz. vol. 210; p. 1290.
- Rail-chair. A. G. Liebmann. No. 1,126,523; Jan. 26; Gaz. vol. 210; p. 1291.
- Rail-chair. A. G. Liebmann. No. 1,126,529; Jan. 26; Gaz. vol. 210; p. 1293.
- Rail-chair. A. G. Liebmann. No. 1,126,533; Jan. 26; Gaz. vol. 210; p. 1295.
- Rail-chair. A. G. Liebmann. No. 1,126,534; Jan. 26; Gaz. vol. 210; p. 1295.
- Rail-chair. A. G. Liebmann. No. 1,126,535; Jan. 26; Gaz. vol. 210; p. 1296.
- Rail-chair. J. F. Vallin. No. 1,133,895; Mar. 30; Gaz. vol. 212; p. 1593.
- Rail-chair. W. H. Schafer. No. 1,145,272; July 6; Gaz. vol. 216; p. 104.
- Rail-chair, Adjustable. A. G. Liebmann. No. 1,126,510; Jan. 26; Gaz. vol. 210; p. 1285.
- Rail-chair, Adjustable. A. G. Liebmann. No. 1,126,511; Jan. 26; Gaz. vol. 210; p. 1285.
- Rail-chair, Adjustable. A. G. Liebmann. No. 1,126,514; Jan. 26; Gaz. vol. 210; p. 1287.
- Rail-chair, Adjustable. A. G. Liebmann. No. 1,126,515; Jan. 26; Gaz. vol. 210; p. 1287.
- Rail-chair, Adjustable. A. G. Liebmann. No. 1,126,517; Jan. 26; Gaz. vol. 210; p. 1288.
- Rail-chair, Adjustable. A. G. Liebmann. No. 1,126,527; Jan. 26; Gaz. vol. 210; p. 1292.
- Rail-chair, Adjustable. A. G. Liebmann. No. 1,126,532; Jan. 26; Gaz. vol. 210; p. 1294.
- Rail chair and clamp. J. F. Hawley. No. 1,162,037; Nov. 30; Gaz. vol. 220; p. 1461.
- Rail-chair and clamping means therefor. A. G. Liebmann. No. 1,126,499; Jan. 26; Gaz. vol. 210; p. 1280.
- Rail chair and fastener. W. G. Johnson. No. 1,123,546; Jan. 5; Gaz. vol. 210; p. 119.
- Rail chair and fastener. J. E. Shope. No. 1,154,445; Sept. 21; Gaz. vol. 218; p. 803.
- Rail chair and fastening. M. Busch. No. 1,132,827; Mar. 23; Gaz. vol. 212; p. 1175.
- Rail chair and joint. G. Wyszatycki. No. 1,128,647; Feb. 16; Gaz. vol. 211; p. 782.
- Rail chair and joint, Combined. J. Garay. No. 1,141,954; June 8; Gaz. vol. 215; p. 340.
- Rail chair and joint, Combined. J. Rennie. No. 1,158,718; Nov. 2; Gaz. vol. 220; p. 107.
- Rail-chair and rail-fastening. A. G. Liebmann. No. 1,126,516; Jan. 26; Gaz. vol. 210; p. 1288.
- Rail-chair for bridges. A. G. Liebmann. No. 1,126,519; Jan. 26; Gaz. vol. 210; p. 1289.
- Rail-chair for bridges and trestles. A. G. Liebmann. No. 1,126,518; Jan. 26; Gaz. vol. 210; p. 1289.
- Rail-chair for roadways and street-crossings. A. G. Liebmann. No. 1,126,521; Jan. 26; Gaz. vol. 210; p. 1290.
- Rail-chair for superelevating curves. A. G. Liebmann. No. 1,126,525; Jan. 26; Gaz. vol. 210; p. 1292.
- Rail chair, Guard-. A. G. Liebmann. No. 1,126,528; Jan. 26; Gaz. vol. 210; p. 1293.
- Rail-chair, Self-locking. A. G. Liebmann. No. 1,126,522; Jan. 26; Gaz. vol. 210; p. 1290.
- Rail-chair, Self-locking. A. G. Liebmann. No. 1,126,536; Jan. 26; Gaz. vol. 210; p. 1296.
- Rail-chair, Tie-anchoring. A. G. Liebmann. No. 1,126,526; Jan. 26; Gaz. vol. 210; p. 1292.
- Rail-chairs, Screw-spike for. A. G. Liebmann. No. 1,126,531; Jan. 26; Gaz. vol. 210; p. 1294.
- Rail-clamp. M. J. Green and A. G. Olson. No. 1,148,511; Aug. 3; Gaz. vol. 217; p. 10.
- Rail-clamp. G. C. Sisler. No. 1,164,881; Dec. 21; Gaz. vol. 221; p. 836.
- Rail-clamp. C. O. Storm. No. 1,139,237; May 11; Gaz. vol. 214; p. 570.
- Rail clamp, Guard-. A. H. Maranda and H. R. Snyder. No. 1,163,431; Dec. 7; Gaz. vol. 221; p. 244.
- Rail-clearing device. M. J. Barrett. No. 1,147,069; July 20; Gaz. vol. 216; p. 773.
- Rail, Compound. E. K. Brown. No. 1,136,585; Apr. 20; Gaz. vol. 213; p. 970.
- Rail, Compound. E. E. Slick. No. 1,125,748; Jan. 19; Gaz. vol. 210; p. 979.
- Rail-connecting means. E. G. Smith. No. 1,141,843; June 1; Gaz. vol. 215; p. 263.
- Rail connection. P. Hamill. No. 1,127,885; Feb. 9; Gaz. vol. 211; p. 470.
- Rail-crossing. J. E. Wright. No. 1,138,713; May 11; Gaz. vol. 214; p. 385.
- Rail device. A. H. Lowe. No. 1,146,888; July 20; Gaz. vol. 216; p. 709.
- Rail-drill, Portable. J. J. Lonsway. No. 1,145,906; July 13; Gaz. vol. 216; p. 345.
- Rail-drilling machine. H. W. Snider. No. 1,160,005; Nov. 9; Gaz. vol. 220; p. 593.
- Rail-elevating apparatus. G. W. Roberts. No. 1,144,251; June 22; Gaz. vol. 215; p. 1209.
- Rail-fastener. G. C. Amundson. No. 1,150,323; Aug. 17; Gaz. vol. 217; p. 822.
- Rail-fastener. J. B. Atwood. No. 1,155,698; Oct. 5; Gaz. vol. 219; p. 130.
- Rail-fastener. J. S. Bean. No. 1,149,888; Aug. 10; Gaz. vol. 217; p. 605.
- Rail-fastener. A. Borowska. No. 1,123,836; Jan. 5; Gaz. vol. 210; p. 217.
- Rail-fastener. S. C. Collins. No. 1,146,051; July 13; Gaz. vol. 216; p. 397.
- Rail-fastener. C. H. Cornell. No. 1,130,797; Mar. 9; Gaz. vol. 212; p. 367.
- Rail-fastener. P. A. McMillan. No. 1,145,780; July 6; Gaz. vol. 216; p. 282.
- Rail-fastener. H. E. Van Ness. No. 1,163,186; Dec. 7; Gaz. vol. 221; p. 158.
- Rail-fastener. J. Virovatz and J. Kiraly. No. 1,132,410; Mar. 16; Gaz. vol. 212; p. 972.
- Rail-fastener. M. P. Wheeler. No. 1,163,728; Dec. 14; Gaz. vol. 221; p. 393.
- Rail-fastener. O. A. Yeagle. No. 1,138,714; May 11; Gaz. vol. 214; p. 385.
- Rail fastener and support. F. S. Jannett. No. 1,129,397; Feb. 23; Gaz. vol. 211; p. 1082.
- Rail fastener and tie. M. E. Applegate. No. 1,163,879; Dec. 14; Gaz. vol. 221; p. 446.
- Rail-fastener, Metallic. F. A. Lester. No. 1,136,021; Apr. 20; Gaz. vol. 213; p. 769.
- Rail-fastening. J. Jr. and E. Gearon. No. 1,165,773; Dec. 28; Gaz. vol. 221; p. 1187.
- Rail-fastening. F. A. Lester. No. 1,136,020; Apr. 20; Gaz. vol. 213; p. 769.
- Rail-fastening. P. Naumann. No. 1,132,962; Mar. 23; Gaz. vol. 212; p. 1223.
- Rail-fastening. J. S. Miller. No. 1,129,709; Feb. 23; Gaz. vol. 211; p. 1187.
- Rail-fastening device. A. Coble, Jr. No. 1,142,309; June 8; Gaz. vol. 215; p. 466.
- Rail-fastening device. R. A. Decker and E. F. Ferguson. No. 1,134,824; Apr. 6; Gaz. vol. 213; p. 268.
- Rail-fastening device. G. H. Morgan, Jr. and J. Salvitti. No. 1,148,852; Aug. 3; Gaz. vol. 217; p. 132.
- Rail-fastening device. H. A. W. Thomasson. No. 1,157,600; Oct. 19; Gaz. vol. 219; p. 848.
- Rail-fastening device. J. J. Winn. No. 1,142,742; June 8; Gaz. vol. 215; p. 613.
- Rail-fastening means. W. S. Magee and C. R. McCarren. No. 1,124,773; Jan. 12; Gaz. vol. 210; p. 596.
- Rail for bridges and like structures, Guard-. T. J. Carter. No. 1,144,295; June 22; Gaz. vol. 215; p. 1224.
- Rail, Guard-. V. Angerer. No. 1,145,738; July 6; Gaz. vol. 216; p. 268.

- Rail-joint. W. K. Anderson. No. 1,147,912; July 27; Gaz. vol. 216; p. 1095.
- Rail, Guard-. B. B. Betts. No. 1,155,994; Oct. 5; Gaz. vol. 219; p. 231.
- Rail-joint. W. J. Davis, C. S. Melrose, and F. M. Fisher. No. 1,151,443; Aug. 24; Gaz. vol. 217; p. 1261.
- Rail, Guard-. H. E. Dillon. No. 1,132,077; Mar. 16; Gaz. vol. 212; p. 850.
- Rail, Guard-. H. G. Elfborg. No. 1,135,272; Apr. 13; Gaz. vol. 213; p. 465.
- Rail, Guard-. E. B. Scott. No. 1,157,426; Oct. 19; Gaz. vol. 219; p. 792.
- Rail-joint. T. Basrek. No. 1,126,349; Jan. 26; Gaz. vol. 210; p. 1228.
- Rail-joint. E. S. Briggs. No. 1,125,453; Jan. 19; Gaz. vol. 210; p. 874.
- Rail-joint. S. W. Brown. No. 1,157,145; Oct. 19; Gaz. vol. 219; p. 690.
- Rail-joint. N. Brozorich. No. 1,157,205; Oct. 19; Gaz. vol. 219; p. 712.
- Rail-joint. H. A. Christy. No. 1,153,153; Sept. 7; Gaz. vol. 218; p. 277.
- Rail-joint. E. Conerway. No. 1,153,606; Sept. 14; Gaz. vol. 218; p. 479.
- Rail-joint. J. W. Cook. No. 1,132,446; Mar. 16; Gaz. vol. 212; p. 985.
- Rail-joint. J. L. Cooper. No. 1,128,107; Feb. 9; Gaz. vol. 211; p. 547.
- Rail-joint. F. Cornetto. No. 1,157,510; Oct. 19; Gaz. vol. 219; p. 820.
- Rail-joint. C. M. Cox. No. 1,158,789; Nov. 2; Gaz. vol. 220; p. 134.
- Rail-joint. E. C. Derseweh and J. M. Dickens. No. 1,125,978; Jan. 26; Gaz. vol. 210; p. 1093.
- Rail-joint. S. Du Rall. No. 1,135,443; Apr. 13; Gaz. vol. 213; p. 526.
- Rail-joint. G. Edick. No. 1,155,903; Oct. 5; Gaz. vol. 219; p. 201.
- Rail-joint. F. J. Evans. No. 1,161,120; Nov. 23; Gaz. vol. 220; p. 1085.
- Rail-joint. J. Faragó. No. 1,140,892; May 25; Gaz. vol. 214; p. 1223.
- Rail-joint. W. R. Perebee and G. Sutton. No. 1,133,545; Mar. 30; Gaz. vol. 212; p. 1467.
- Rail-joint. J. T. Finley, Jr. No. 1,150,108; Aug. 17; Gaz. vol. 217; p. 745.
- Rail-joint. J. W. Forse. No. 1,157,770; Oct. 26; Gaz. vol. 219; p. 972.
- Rail-joint. J. F. Forsythe. No. 1,159,835; Nov. 9; Gaz. vol. 220; p. 534.
- Rail-joint. M. E. Freeman. No. 1,146,862; July 20; Gaz. vol. 216; p. 699.
- Rail-joint. T. Grgurich. No. 1,125,841; Jan. 19; Gaz. vol. 210; p. 1011.
- Rail-joint. I. Grozej. No. 1,146,494; July 13; Gaz. vol. 216; p. 554.
- Rail-joint. K. L. Hamlin. No. 1,164,509; Dec. 14; Gaz. vol. 221; p. 666.
- Rail-joint. H. Hardisty. No. 1,159,377; Nov. 9; Gaz. vol. 220; p. 368.
- Rail-joint. W. J. Healy. No. 1,146,496; July 13; Gaz. vol. 216; p. 555.
- Rail-joint. P. Hideg. No. 1,162,358; Nov. 30; Gaz. vol. 220; p. 1566.
- Rail-joint. J. M. Hinkle and J. S. Cooper. No. 1,154,771; Sept. 28; Gaz. vol. 218; p. 943.
- Rail-joint. I. Hoffmann. No. 1,159,671; Nov. 9; Gaz. vol. 220; p. 473.
- Rail-joint. T. A. Hookey. No. 1,162,609; Nov. 30; Gaz. vol. 220; p. 1649.
- Rail-joint. A. A. Hubbell. No. 1,148,841; Aug. 3; Gaz. vol. 217; p. 128.
- Rail-joint. H. T. Hughes. No. 1,128,683; Feb. 16; Gaz. vol. 211; p. 794.
- Rail-joint. C. Jacino. No. 1,143,710; June 22; Gaz. vol. 215; p. 1018.
- Rail-joint. E. M. Jackson. No. 1,145,770; July 6; Gaz. vol. 216; p. 278.
- Rail-joint. S. Jambor. No. 1,161,217; Nov. 23; Gaz. vol. 220; p. 1121.
- Rail-joint. J. Juhász and J. Horváth. No. 1,141,714; June 1; Gaz. vol. 215; p. 223.
- Rail-joint. J. Kennedy. No. 1,135,695; Apr. 13; Gaz. vol. 213; p. 615.
- Rail-joint. M. T. Kercher and N. N. Tombaugh. No. 1,165,264; Dec. 21; Gaz. vol. 221; p. 970.
- Rail-joint. J. Kessler. No. 1,151,275; Aug. 24; Gaz. vol. 217; p. 1206.
- Rail-joint. C. P. Kimmel. No. 1,145,023; July 6; Gaz. vol. 216; p. 17.
- Rail-joint. I. J. Knight and J. M. Smith. No. 1,157,554; Oct. 19; Gaz. vol. 219; p. 834.
- Rail-joint. C. L. Kristofferson. No. 1,124,919; Jan. 12; Gaz. vol. 210; p. 647.
- Rail-joint. C. C. Lamb. No. 1,144,714; June 29; Gaz. vol. 215; p. 1395.
- Rail-joint. J. M. Langford. No. 1,145,321; July 6; Gaz. vol. 216; p. 120.
- Rail-joint. M. Lavinger and J. Schwab, Jr. No. 1,147,518; July 20; Gaz. vol. 216; p. 930.
- Rail-joint. L. B. Leadbeater. No. 1,163,673; Dec. 14; Gaz. vol. 221; p. 372.
- Rail-joint. S. Leschziner. No. 1,151,368; Aug. 24; Gaz. vol. 217; p. 1236.
- Rail-joint. A. H. Lewis. No. 1,128,157; Feb. 9; Gaz. vol. 211; p. 565.
- Rail-joint. G. A. Long. No. 1,132,367; Mar. 16; Gaz. vol. 212; p. 956.
- Rail-joint. G. B. Lummer. No. 1,153,397; Sept. 14; Gaz. vol. 218; p. 404.
- Rail-joint. G. H. Martin. No. 1,133,165; Mar. 23; Gaz. vol. 212; p. 1297.
- Rail-joint. J. D. McCall. No. 1,146,634; July 13; Gaz. vol. 216; p. 602.
- Rail-joint. H. L. Merriman and T. May. No. 1,142,266; June 8; Gaz. vol. 215; p. 451.
- Rail-joint. J. Metz. No. 1,147,258; July 20; Gaz. vol. 216; p. 839.
- Rail-joint. J. E. Meyers. No. 1,139,049; May 11; Gaz. vol. 214; p. 506.
- Rail-joint. T. E. Missee and E. L. Taylor. No. 1,130,921; Mar. 9; Gaz. vol. 212; p. 411.
- Rail-joint. H. F. Nelson. No. 1,143,851; June 22; Gaz. vol. 215; p. 1067.
- Rail-joint. C. J. Oligher. No. 1,161,788; Nov. 23; Gaz. vol. 220; p. 1321.
- Rail-joint. A. T. Palmer. No. 1,150,618; Aug. 17; Gaz. vol. 217; p. 923.
- Rail-joint. A. Pernula. No. 1,146,444; July 13; Gaz. vol. 216; p. 536.
- Rail-joint. F. Pietrusza. No. 1,154,882; Sept. 28; Gaz. vol. 218; p. 979.
- Rail-joint. M. Pusateri. No. 1,156,926; Oct. 19; Gaz. vol. 219; p. 613.
- Rail-joint. C. R. Robins. No. 1,139,372; May 11; Gaz. vol. 214; p. 617.
- Rail-joint. J. Roncevic. No. 1,155,277; Sept. 28; Gaz. vol. 218; p. 1113.
- Rail-joint. J. C. Root. No. 1,137,666; Apr. 27; Gaz. vol. 213; p. 1388.
- Rail-joint. G. H. Russell. No. 1,157,640; Oct. 19; Gaz. vol. 219; p. 861.
- Rail-joint. J. W. Ryan. No. 1,133,185; Mar. 23; Gaz. vol. 212; p. 1304.
- Rail-joint. H. W. Ryder. No. 1,130,200; Mar. 2; Gaz. vol. 212; p. 125.
- Rail-joint. E. P. Simard. No. 1,129,746; Feb. 23; Gaz. vol. 211; p. 1199.
- Rail-joint. A. F. Smith. No. 1,134,237; Apr. 6; Gaz. vol. 213; p. 57.
- Rail-joint. D. Steel. No. 1,127,819; Feb. 9; Gaz. vol. 211; p. 446.
- Rail-joint. D. C. Stephenson. No. 1,145,336; July 6; Gaz. vol. 216; p. 124.
- Rail-joint. T. B. Strother. No. 1,128,074; Feb. 9; Gaz. vol. 211; p. 535.
- Rail-joint. W. M. Stuart. No. 1,135,070; Apr. 13; Gaz. vol. 213; p. 397.
- Rail-joint. J. Sutkay. No. 1,158,332; Oct. 26; Gaz. vol. 219; p. 1169.
- Rail-joint. C. H. Swartz. No. 1,124,554; Jan. 12; Gaz. vol. 210; p. 517.
- Rail-joint. L. Sweeny and J. Sullivan. No. 1,158,744; Nov. 2; Gaz. vol. 220; p. 116.
- Rail-joint. S. W. T. Swill. No. 1,131,569; Mar. 9; Gaz. vol. 212; p. 632.
- Rail-joint. W. F. Widmer. No. 1,140,644; May 25; Gaz. vol. 214; p. 1137.
- Rail-joint. A. Wjazanko. No. 1,129,264; Feb. 23; Gaz. vol. 211; p. 1034.
- Rail-joint. J. W. Womble. No. 1,137,824; May 4; Gaz. vol. 214; p. 35.
- Rail joint and chair. J. S. Jackson. No. 1,129,098; Feb. 23; Gaz. vol. 211; p. 976.
- Rail joint and chair, Combined. S. and O. Swanson. No. 1,157,452; Oct. 19; Gaz. vol. 219; p. 800.
- Rail joint and fastener. R. G. Powell. No. 1,154,724; Sept. 28; Gaz. vol. 218; p. 927.
- Rail-joint and supporting-tie. P. Sotak. No. 1,144,567; June 29; Gaz. vol. 215; p. 1344.
- Rail-joint bar, Reinforced. B. Wolhaupter and E. F. Schermerhorn. No. 1,131,889; Mar. 16; Gaz. vol. 212; p. 782.
- Rail-joint bars, Making. B. Wolhaupter. No. 1,128,645; Feb. 16; Gaz. vol. 211; p. 781.
- Rail-joint, Base-supported. F. S. Stevens. No. 1,145,335; July 6; Gaz. vol. 216; p. 124.
- Rail-joint, Boltless. C. I. Richardson and W. D. Hall. No. 1,136,273; Apr. 20; Gaz. vol. 213; p. 857.
- Rail-joint chair. G. H. Evans. No. 1,125,510; Jan. 19; Gaz. vol. 210; p. 890.
- Rail-joint chair. A. G. Liebmann. No. 1,126,524; Jan. 26; Gaz. vol. 210; p. 1291.
- Rail-joint connection. E. Leveille. No. 1,147,251; July 20; Gaz. vol. 216; p. 837.
- Rail-joint, Flexible. J. G. Casteran. No. 1,130,145; Mar. 2; Gaz. vol. 212; p. 105.
- Rail-joint, Insulated. C. E. Ballou. No. 1,164,974; Dec. 21; Gaz. vol. 221; p. 869.
- Rail-joint, Insulated. B. G. Braine. No. 1,141,440; June 1; Gaz. vol. 215; p. 127.
- Rail-joint, Insulated. B. G. Braine. No. 1,162,973; Dec. 7; Gaz. vol. 221; p. 83.

Alphabetical list of inventions—Continued.

- Rail-joint, Insulated. T. H. McFarland and R. D. Lewis. No. 1,148,179; July 27; Gaz. vol. 216; p. 1191.
- Rail-joint, Insulated. E. F. Schermerhorn. No. 1,142,632; June 8; Gaz. vol. 215; p. 579.
- Rail-joint, Insulated. E. F. Schermerhorn. No. 1,152,344; Aug. 31; Gaz. vol. 217; p. 1620.
- Rail-joint, Insulated. R. W. Smith and W. P. Thomson. No. 1,126,112; Jan. 26; Gaz. vol. 210; p. 1142.
- Rail-joint, Insulated. C. E. Stevens. No. 1,154,738; Sept. 28; Gaz. vol. 218; p. 931.
- Rail-joint, Insulated. W. P. Thomson. No. 1,135,862; Apr. 13; Gaz. vol. 213; p. 673.
- Rail-joint, Insulated. J. P. Wright. No. 1,124,989; Jan. 12; Gaz. vol. 210; p. 672.
- Rail-joint, Interlocking. H. L. Betten. No. 1,163,126; Dec. 7; Gaz. vol. 221; p. 136.
- Rail-joint track-fastening. B. Wolhaupter. No. 1,126,150; Jan. 26; Gaz. vol. 210; p. 1155.
- Rail-joints, Making welded. J. Wattmann. No. 1,132,052; Mar. 16; Gaz. vol. 212; p. 841.
- Rail-lifting tool. P. Gagnon. No. 1,131,051; Mar. 9; Gaz. vol. 212; p. 454.
- Rail-locking device. C. P. Walker. No. 1,165,300; Dec. 21; Gaz. vol. 221; p. 982.
- Rail mounting, Guard-. B. B. Betts. No. 1,155,992; Oct. 5; Gaz. vol. 219; p. 230.
- Rail mounting, Guard-. B. B. Betts. No. 1,155,993; Oct. 5; Gaz. vol. 219; p. 231.
- Rail-plate. F. M. Simpson. No. 1,141,428; June 1; Gaz. vol. 215; p. 123.
- Rail, Rober. P. G. Brown. No. 1,129,379; Feb. 23; Gaz. vol. 211; p. 1075.
- Rail-sanding method and apparatus. J. V. Geraghty. No. 1,136,667; Apr. 20; Gaz. vol. 213; p. 998.
- Rail-splice. I. N. Dimm. No. 1,132,461; Mar. 16; Gaz. vol. 212; p. 990.
- Rail-stay. L. Hanson. No. 1,130,815; Mar. 9; Gaz. vol. 212; p. 373.
- Rail-stay. P. W. Moore. No. 1,158,141; Oct. 26; Gaz. vol. 219; p. 1103.
- Rail-stay. P. H. Truman. No. 1,150,559; Aug. 17; Gaz. vol. 217; p. 904.
- Rail-stay. J. M. Vail. No. 1,131,751; Mar. 16; Gaz. vol. 212; p. 731.
- Rail structure. A. B. Wetherell. No. 1,161,273; Nov. 23; Gaz. vol. 220; p. 1142.
- Rail-support. M. Sprinkman. No. 1,133,586; Mar. 30; Gaz. vol. 212; p. 1482.
- Rail-supporting structure. J. G. Hallstone and C. Dietz. No. 1,139,966; May 18; Gaz. vol. 214; p. 863.
- Rail system, Third-. P. H. Z. Mallen. No. 1,138,827; May 11; Gaz. vol. 214; p. 427.
- Rail-testing device. H. Y. Armstrong. No. 1,130,657; Mar. 2; Gaz. vol. 212; p. 285.
- Rail-tie. L. A. Anfinson. No. 1,136,859; Apr. 20; Gaz. vol. 213; p. 1066.
- Rail-tie. V. Blomstrom. No. 1,142,663; June 8; Gaz. vol. 215; p. 589.
- Rail-tie. R. Duval. No. 1,147,623; July 20; Gaz. vol. 216; p. 967.
- Rail-tie. I. L. Lawson. No. 1,123,324; Jan. 5; Gaz. vol. 210; p. 44.
- Rail-tie. L. Leber. No. 1,164,825; Dec. 21; Gaz. vol. 221; p. 817.
- Rail-tie. C. Somershoe. No. 1,129,747; Feb. 23; Gaz. vol. 211; p. 1200.
- Rail-tie. O. N. Waelti. No. 1,138,159; May 4; Gaz. vol. 214; p. 154.
- Rail-tie. G. W. Widner. No. 1,160,227; Nov. 16; Gaz. vol. 220; p. 725.
- Rail tie and clip. A. Worswick. No. 1,130,952; Mar. 9; Gaz. vol. 212; p. 420.
- Rail tie and fastener. W. F. Baker. No. 1,158,423; Nov. 2; Gaz. vol. 220; p. 4.
- Rail tie and fastener. J. C. Burgess. No. 1,149,724; Aug. 10; Gaz. vol. 217; p. 545.
- Rail tie and fastener. J. C. Burgess. No. 1,159,742; Nov. 9; Gaz. vol. 220; p. 500.
- Rail tie and fastener. W. A. Guptill. No. 1,134,737; Apr. 6; Gaz. vol. 213; p. 239.
- Rail tie and fastener. H. B. Hall. No. 1,130,081; Mar. 2; Gaz. vol. 212; p. 83.
- Rail tie and fastener. A. B. Riggins. No. 1,123,923; Jan. 5; Gaz. vol. 210; p. 247.
- Rail tie and fastener. A. N. Shepler. No. 1,158,319; Oct. 26; Gaz. vol. 219; p. 1165.
- Rail tie and fastener. H. W. Shipley. No. 1,135,065; Apr. 13; Gaz. vol. 213; p. 395.
- Rail tie and fastener, Combined. J. H. Benner. No. 1,156,581; Oct. 12; Gaz. vol. 219; p. 463.
- Rail-tie and fastener, Metallic. I. Bradač. No. 1,137,738; May 4; Gaz. vol. 214; p. 7.
- Rail tie and fastening. I. Carey. No. 1,132,437; Mar. 16; Gaz. vol. 212; p. 981.
- Rail-tie and fastening means therefor. C. L. Hoffman, W. F. Koegele, and R. F. Bayerl. No. 1,149,649; Aug. 10; Gaz. vol. 217; p. 521.
- Rail tie, chair, and joint, Combined. G. Vranay. No. 1,133,593; Mar. 30; Gaz. vol. 212; p. 1485.
- Rail, Tramway and the like. H. T. Wakelam. No. 1,147,468; July 20; Gaz. vol. 216; p. 913.
- Rails and other objects to be butt-welded, Forming parallel faces on the ends of. H. Goldschmidt and W. Brewitt. No. 1,154,918; Sept. 28; Gaz. vol. 218; p. 993.
- Rails, Approach for rack-. L. L. Brande. No. 1,137,694; Apr. 27; Gaz. vol. 213; p. 1397.
- Rails, Chair for frog and switch guard-. A. G. Liebmann. No. 1,126,530; Jan. 26; Gaz. vol. 210; p. 1294.
- Rails, Device for preventing creeping of. A. J. Dinklage. No. 1,153,541; Sept. 14; Gaz. vol. 218; p. 457.
- Rails, Filler-block for. C. S. Clark. No. 1,163,214; Dec. 7; Gaz. vol. 221; p. 168.
- Rails, Insulating fastening means for. A. F. Brown. No. 1,142,232; June 8; Gaz. vol. 215; p. 440.
- Rails, Means for forming joints in. H. G. Gillmor. No. 1,133,557; Mar. 30; Gaz. vol. 212; p. 1472.
- Rails on cross-ties, Device for securing guard-. D. Schwemann. No. 1,130,639; Mar. 2; Gaz. vol. 212; p. 279.
- Rails, such as those of tramways, Means for supporting. J. Robbins. No. 1,128,048; Feb. 9; Gaz. vol. 211; p. 526.
- Rails to railway-ties, Device for fastening. A. T. Spears. No. 1,123,415; Jan. 5; Gaz. vol. 210; p. 75.
- Railway. C. A. Provost. No. 1,162,251; Nov. 30; Gaz. vol. 220; p. 1529.
- Railway accidents, Apparatus for preventing. H. L. Lockart. No. 1,130,414; Mar. 2; Gaz. vol. 212; p. 199.
- Railway, Amusement-. F. Glynn. No. 1,127,753; Feb. 9; Gaz. vol. 211; p. 421.
- Railway and highway signaling device. A. H. Messer. No. 1,155,834; Oct. 5; Gaz. vol. 219; p. 178.
- Railway and other vehicles, Draw and buffer gear for. J. Levick, Jr. No. 1,166,377; Dec. 28; Gaz. vol. 221; p. 1403.
- Railway and signal system, Combined electric. P. W. Leffler. No. 1,131,717; Mar. 16; Gaz. vol. 212; p. 718.
- Railway appliance. N. L. Faufata. No. 1,145,473; July 6; Gaz. vol. 216; p. 175.
- Railway appliance. F. A. McRae. No. 1,139,551; May 18; Gaz. vol. 214; p. 717.
- Railway automatic signal and control. C. L. Pool. No. 1,129,120; Feb. 23; Gaz. vol. 211; p. 984.
- Railway automatic signaling system, Electric-. F. Townsend. No. 1,159,730; Nov. 9; Gaz. vol. 220; p. 495.
- Railway band-brake. A. Taurman. No. 1,144,922; June 29; Gaz. vol. 215; p. 1465.
- Railway block-signal system, Electric-. F. W. Sawyer. No. 1,128,057; Feb. 9; Gaz. vol. 211; p. 529.
- Railway block-signal system, Automatic. G. H. Benjamin. No. 1,160,129; Nov. 16; Gaz. vol. 220; p. 690.
- Railway block system. T. H. Schreiber. No. 1,126,576; Jan. 26; Gaz. vol. 210; p. 1311.
- Railway block system. R. E. Thompson. No. 1,135,225; Apr. 13; Gaz. vol. 213; p. 448.
- Railway-brake. M. A. Kostecki. No. 1,141,125; June 1; Gaz. vol. 215; p. 12.
- Railway brake, Pleasure-. T. McCormack. No. 1,137,342; Apr. 27; Gaz. vol. 213; p. 1279.
- Railway brake-rigging. C. O. Anderson. No. 1,160,358; Nov. 16; Gaz. vol. 220; p. 770.
- Railway-brake-setting mechanism. F. Mulvey. No. 1,155,504; Oct. 5; Gaz. vol. 219; p. 64.
- Railway-buffer. A. H. Wood. No. 1,156,649; Oct. 12; Gaz. vol. 219; p. 487.
- Railway bumping-post. W. H. Miner. No. 1,126,825; Feb. 2; Gaz. vol. 211; p. 58.
- Railway-bumping-post brace. L. E. Schuch. No. 1,145,804; July 6; Gaz. vol. 216; p. 290.
- Railway-carriage-lighting system. A. Ulbrich. No. 1,150,465; Aug. 17; Gaz. vol. 217; p. 870.
- Railway-carriage ventilator. F. H. Addis. No. 1,129,053; Feb. 23; Gaz. vol. 211; p. 961.
- Railway-carriages and similar purposes, Electrical installation for lighting, heating, and ventilating. A. H. Darker. No. 1,131,914; Mar. 16; Gaz. vol. 212; p. 791.
- Railway cattle-guard. J. G. Cross. No. 1,161,113; Nov. 23; Gaz. vol. 220; p. 1082.
- Railway cattle-guard. W. Upthegrove. No. 1,147,766; July 27; Gaz. vol. 216; p. 1043.
- Railway-chair. J. Rose. No. 1,151,285; Aug. 24; Gaz. vol. 217; p. 1209.
- Railway-coaches, Safety attachment for. O. A. Wolfe. No. 1,139,619; May 18; Gaz. vol. 214; p. 741.
- Railway collisions, Electromechanical system to avoid. A. Beer. No. 1,132,427; Mar. 16; Gaz. vol. 212; p. 978.
- Railway collisions, Electromechanical system to avoid. A. Beer. No. 1,147,596; July 20; Gaz. vol. 216; p. 957.
- Railway concrete tie. J. D. Stauffer. No. 1,148,414; July 27; Gaz. vol. 216; p. 1273.
- Railway construction. R. Lichtenberger. No. 1,159,509; Nov. 9; Gaz. vol. 220; p. 416.
- Railway construction. W. H. Morgan. No. 1,149,393; Aug. 10; Gaz. vol. 217; p. 426.
- Railway-coupling. J. H. Le Compte. No. 1,154,327; Sept. 21; Gaz. vol. 218; p. 763.
- Railway-coupling. D. C. Davis. No. 1,148,293; July 27; Gaz. vol. 216; p. 1230.
- Railway-coupling. H. E. Van Dorn. No. 1,148,555; Aug. 3; Gaz. vol. 217; p. 25.
- Railway cross-tie. J. E. Thompson. No. 1,151,066; Aug. 24; Gaz. vol. 217; p. 1134.

- Railway cross-tie, Cast-metal. G. W. Snyder. No. 1,136,180; Apr. 20; Gaz. vol. 213; p. 824.
- Railway cross-tie, Cast-metal. G. W. Snyder. No. 1,143,456; June 15; Gaz. vol. 215; p. 908.
- Railway-crossing. W. H. Culkins. No. 1,144,893; June 29; Gaz. vol. 215; p. 1458.
- Railway-crossing. J. W. East. No. 1,139,171; May 11; Gaz. vol. 214; p. 548.
- Railway-crossing. J. V. Fogerty. No. 1,135,888; Apr. 13; Gaz. vol. 213; p. 682.
- Railway-crossing. C. J. Griffith. No. 1,162,858; Dec. 7; Gaz. vol. 221; p. 44.
- Railway-crossing. A. W. Herring. No. 1,131,515; Mar. 9; Gaz. vol. 212; p. 614.
- Railway-crossing. W. S. McKee. No. 1,152,032; Aug. 31; Gaz. vol. 217; p. 1513.
- Railway-crossing. W. G. Nichols. No. 1,127,495; Feb. 9; Gaz. vol. 211; p. 333.
- Railway-crossing. A. J. Owens. No. 1,126,559; Jan. 26; Gaz. vol. 210; p. 1304.
- Railway-crossing. L. Sadler and R. C. Geckler. No. 1,153,342; Sept. 14; Gaz. vol. 218; p. 383.
- Railway-crossing. E. N. Strom. No. 1,140,008; May 18; Gaz. vol. 214; p. 879.
- Railway-crossing alarm. G. Neville. No. 1,154,047; Sept. 21; Gaz. vol. 218; p. 667.
- Railway-crossing automatic gate. S. Krna and P. Turzik. No. 1,140,168; May 18; Gaz. vol. 214; p. 935.
- Railway-crossing gate. E. Adams and C. Niemitalo. No. 1,132,821; Mar. 23; Gaz. vol. 212; p. 1172.
- Railway-crossing gate. A. Tegeler. No. 1,126,588; Jan. 26; Gaz. vol. 210; p. 1316.
- Railway-crossing, Portable. C. H. Bailey. No. 1,131,457; Mar. 9; Gaz. vol. 212; p. 595.
- Railway-crossing protective device. S. Reichenthal, Jr. No. 1,144,248; June 22; Gaz. vol. 215; p. 1208.
- Railway-curves, Lining. W. T. Dobyns. No. 1,127,204; Feb. 2; Gaz. vol. 211; p. 190.
- Railway device, Safety. J. M. Galloway. (Reissue.) No. 1,389,7; Apr. 6; Gaz. vol. 213; p. 324.
- Railway diaphragm-face-plate-supporting means. W. H. Miner. No. 1,152,036; Aug. 31; Gaz. vol. 217; p. 1514.
- Railway draft appliance. E. L. Bradford and G. P. Ritter. No. 1,148,006; July 27; Gaz. vol. 216; p. 1127.
- Railway draft device. H. P. Cambre. No. 1,133,704; Mar. 30; Gaz. vol. 212; p. 1526.
- Railway draft-gear, Chafing device for. H. F. Ball. No. 1,130,462; Mar. 2; Gaz. vol. 212; p. 218.
- Railway draft-rigging. W. H. Miner. No. 1,136,029; Apr. 20; Gaz. vol. 213; p. 772.
- Railway draft-rigging. W. H. Miner. No. 1,138,000; May 4; Gaz. vol. 214; p. 97.
- Railway draft-rigging. J. R. Mitchell. No. 1,140,523; May 25; Gaz. vol. 214; p. 1096.
- Railway draft-rigging. J. F. O'Connor. No. 1,125,384; Jan. 19; Gaz. vol. 210; p. 850.
- Railway draft-rigging. J. F. O'Connor. No. 1,130,999; Mar. 9; Gaz. vol. 212; p. 436.
- Railway draft-rigging, Draft-yoke and draw-bar connection in. G. A. Johnson. No. 1,128,320; Feb. 16; Gaz. vol. 211; p. 670.
- Railway draft-sill. C. E. Dath. No. 1,126,718; Feb. 2; Gaz. vol. 211; p. 18.
- Railway draw-head and coupling. W. T. and H. E. Van Dorn. No. 1,148,556; Aug. 3; Gaz. vol. 217; p. 25.
- Railway, Electric. C. B. and J. F. McLeer. No. 1,127,470; Feb. 9; Gaz. vol. 211; p. 324.
- Railway electric control system. R. C. Dawson. No. 1,126,412; Jan. 26; Gaz. vol. 210; p. 1249.
- Railway electric safety system. J. Skinderviken. No. 1,159,723; Nov. 9; Gaz. vol. 220; p. 492.
- Railway electric traction, telegraph, and signal system, Combined. A. V. T. Day. No. 1,125,487; Jan. 19; Gaz. vol. 210; p. 884.
- Railway, Elevated. W. Hinsin. No. 1,149,764; Aug. 10; Gaz. vol. 217; p. 560.
- Railway, Elevated. G. Sauvola. No. 1,155,760; Oct. 5; Gaz. vol. 219; p. 150.
- Railway-fastener. C. H. Cornell. No. 1,150,578; Aug. 17; Gaz. vol. 217; p. 911.
- Railway fog-signal. W. J. Priest. No. 1,131,552; Mar. 9; Gaz. vol. 212; p. 626.
- Railway for carrying logs, &c., Suspended. F. Montgomery. No. 1,128,029; Feb. 9; Gaz. vol. 211; p. 520.
- Railway-frog. J. N. Sides. No. 1,142,373; June 8; Gaz. vol. 215; p. 489.
- Railway frogless switch. C. H. Krauss. No. 1,132,779; Mar. 23; Gaz. vol. 212; p. 1156.
- Railway-gate. A. Alary. No. 1,127,385; Feb. 9; Gaz. vol. 211; p. 291.
- Railway-gate. J. A. and G. W. Hoar. No. 1,134,201; Apr. 6; Gaz. vol. 213; p. 43.
- Railway-gate. J. H. Taylor and A. H. Mansell. No. 1,140,084; May 18; Gaz. vol. 214; p. 906.
- Railway-gate-controlling mechanism. J. A. Gasse. No. 1,142,319; June 8; Gaz. vol. 215; p. 469.
- Railway-gate, Automatic. A. E. Clements. No. 1,131,330; Mar. 9; Gaz. vol. 212; p. 551.
- Railway-gate, Automatic. J. Konsel. No. 1,133,974; Mar. 30; Gaz. vol. 212; p. 1617.
- Railway-gates, Signal-controlling means for. J. A. Gasse. No. 1,128,439; Feb. 16; Gaz. vol. 211; p. 710.
- Railway grade-crossing. H. E. Muchnic. No. 1,154,534; Sept. 21; Gaz. vol. 218; p. 832.
- Railway, High-speed. T. L. Johnson. No. 1,123,305; Jan. 5; Gaz. vol. 210; p. 35.
- Railway, High-speed. T. L. Johnson. No. 1,123,306; Jan. 5; Gaz. vol. 210; p. 36.
- Railway-joint. P. Bacher. No. 1,133,694; Mar. 30; Gaz. vol. 212; p. 1523.
- Railway-joint chair. R. Switzer and C. T. Lamison. No. 1,145,277; July 6; Gaz. vol. 216; p. 105.
- Railway level-board. W. McClure. No. 1,141,471; June 1; Gaz. vol. 215; p. 138.
- Railway-motors, Means for automatically stopping. W. F. Pettes and A. E. Spicer. No. 1,129,425; Feb. 23; Gaz. vol. 211; p. 1091.
- Railway package-transferring device. E. B. Harral. No. 1,153,071; Sept. 7; Gaz. vol. 218; p. 250.
- Railway, Pleasure-. G. L. Carruthers. No. 1,152,290; Aug. 31; Gaz. vol. 217; p. 1601.
- Railway-rail. P. McMahon. No. 1,147,109; July 20; Gaz. vol. 216; p. 787.
- Railway-rail. J. H. Shank. No. 1,152,233; Aug. 31; Gaz. vol. 217; p. 1582.
- Railway-rail. P. Sherman. No. 1,130,549; Mar. 2; Gaz. vol. 212; p. 249.
- Railway-rail, Compound. T. Burke. No. 1,141,766; June 1; Gaz. vol. 215; p. 239.
- Railway-rail, Compound. J. F. Ellmauerer. No. 1,128,237; Feb. 9; Gaz. vol. 211; p. 591.
- Railway-rail coupling. C. F. and S. O. McDonald. No. 1,144,557; June 29; Gaz. vol. 215; p. 1341.
- Railway-rail fastener. R. M. Anderson and C. A. Berry. No. 1,126,677; Feb. 2; Gaz. vol. 211; p. 3.
- Railway-rail fastener. G. Rielly. No. 1,143,997; June 22; Gaz. vol. 215; p. 1118.
- Railway-rail fastening to tie. T. M. Beamish. No. 1,165,834; Dec. 28; Gaz. vol. 221; p. 1207.
- Railway-rail joint. R. Axman. No. 1,129,622; Feb. 23; Gaz. vol. 211; p. 1161.
- Railway-rail joint. A. Driedger. No. 1,129,180; Feb. 23; Gaz. vol. 211; p. 1005.
- Railway-rail joint. C. S. Ellixson. No. 1,134,321; Apr. 6; Gaz. vol. 213; p. 38.
- Railway-rail joint. A. A. Grose. No. 1,161,472; Nov. 23; Gaz. vol. 220; p. 1212.
- Railway-rail joint. J. Horvat. No. 1,145,992; July 13; Gaz. vol. 216; p. 376.
- Railway-rail joint. D. Steel. No. 1,164,135; Dec. 14; Gaz. vol. 221; p. 536.
- Railway-rail joint. J. C. Wallace. No. 1,132,232; Mar. 16; Gaz. vol. 212; p. 907.
- Railway-rail splice-piece and chair. J. D. Rice. No. 1,158,851; Nov. 2; Gaz. vol. 220; p. 156.
- Railway-rail support. L. A. Shrader. No. 1,128,536; Feb. 16; Gaz. vol. 211; p. 745.
- Railway-rail tie. F. Kirch. No. 1,132,354; Mar. 16; Gaz. vol. 212; p. 951.
- Railway-rail tie. J. W. Ryan. No. 1,151,051; Aug. 24; Gaz. vol. 217; p. 1130.
- Railway-rail tie. W. W. Woodruff. No. 1,123,457; Jan. 5; Gaz. vol. 210; p. 89.
- Railway-rails and the like, Chair or socket for. J. T. Carney. No. 1,156,754; Oct. 12; Gaz. vol. 219; p. 523.
- Railway-rails, Means for joining. T. M. Daniels. No. 1,153,036; Sept. 7; Gaz. vol. 218; p. 239.
- Railway-rails, Producing. H. P. Brown. No. 1,127,177; Feb. 2; Gaz. vol. 211; p. 181.
- Railway-rails to concrete sleepers, Means for securing. P. B. Jagger. No. 1,157,986; Oct. 26; Gaz. vol. 219; p. 1048.
- Railway-rails, Uniting. F. Lange. No. 1,153,435; Sept. 14; Gaz. vol. 218; p. 418.
- Railway-road-bed-disking machine. T. McGee. No. 1,158,701; Nov. 2; Gaz. vol. 220; p. 101.
- Railway rolling-stock, Draft-rigging for. W. R. Diehl. No. 1,155,896; Oct. 5; Gaz. vol. 219; p. 199.
- Railway safety apparatus. T. M. Freeble. No. 1,155,476; Oct. 5; Gaz. vol. 219; p. 53.
- Railway safety apparatus. T. M. Freeble. No. 1,159,578; Nov. 9; Gaz. vol. 220; p. 440.
- Railway safety appliance. V. W. Owles and J. A. McKinley, Jr. No. 1,151,385; Aug. 24; Gaz. vol. 217; p. 1241.
- Railway safety device. C. H. Goodpasture. No. 1,136,793; Apr. 20; Gaz. vol. 213; p. 1042.
- Railway safety device. J. F. Graybill. No. 1,133,131; Mar. 23; Gaz. vol. 212; p. 1284.
- Railway safety device. W. J. Melvin and H. J. Burbridge. No. 1,138,883; May 11; Gaz. vol. 214; p. 447.
- Railway safety system. H. W. McNaught. No. 1,134,278; Apr. 6; Gaz. vol. 213; p. 71.
- Railway safety system, Electric-. P. L. Bailey. No. 1,156,046; Oct. 12; Gaz. vol. 219; p. 277.
- Railway safety system, Electric-. M. Strang. No. 1,126,122; Jan. 26; Gaz. vol. 210; p. 1145.
- Railway sanitary apparatus. G. W. and I. S. Kelley. No. 1,138,486; May 4; Gaz. vol. 214; p. 269.
- Railway schedules, Means for facilitating the use of. A. A. Glisson. No. 1,132,333; Mar. 16; Gaz. vol. 212; p. 945.
- Railway-signal. J. P. Coleman. No. 1,138,087; May 4; Gaz. vol. 214; p. 129.

Alphabetical list of inventions—Continued.

- Railway-signal. R. H. Todd. No. 1,160,013; Nov. 9; Gaz. vol. 220; p. 596.
 Railway-signal. E. Woltmann. No. 1,163,190; Dec. 7; Gaz. vol. 221; p. 160.
 Railway-signal-actuating mechanism. H. A. Hoeschen. No. 1,150,822; Aug. 17; Gaz. vol. 217; p. 993.
 Railway-signal and automatic train-stopping device. H. F. Jones. No. 1,130,980; Mar. 9; Gaz. vol. 212; p. 430.
 Railway signal and control apparatus. C. F. Rumold. No. 1,137,089; Apr. 27; Gaz. vol. 213; p. 1185.
 Railway signal apparatus. C. F. Rumold. No. 1,141,147; June 1; Gaz. vol. 215; p. 19.
 Railway-signal container. G. Selby. No. 1,162,951; Dec. 7; Gaz. vol. 221; p. 75.
 Railway-signal-controlling mechanism. A. H. Renshaw. No. 1,137,084; Apr. 27; Gaz. vol. 213; p. 1183.
 Railway signal device. W. E. Sauerman. No. 1,153,449; Sept. 14; Gaz. vol. 218; p. 423.
 Railway-signal. Electric. J. B. Howell. No. 1,156,688; Oct. 12; Gaz. vol. 219; p. 500.
 Railway-signal-recording device. N. and W. E. Lombard. No. 1,158,821; Nov. 2; Gaz. vol. 220; p. 145.
 Railway signal system. R. B. Bryant. No. 1,130,706; Mar. 9; Gaz. vol. 212; p. 336.
 Railway-signal system. E. C. Wood. No. 1,150,798; Aug. 17; Gaz. vol. 217; p. 985.
 Railway signal system. Electric. J. J. Ruddick. No. 1,151,720; Aug. 31; Gaz. vol. 217; p. 1403.
 Railway-signals. Manual actuator for. T. M. Freeble. No. 1,155,477; Oct. 5; Gaz. vol. 219; p. 54.
 Railway-signals. Motor for operating. W. K. Howe. No. 1,162,695; Nov. 30; Gaz. vol. 220; p. 1676.
 Railway signaling. J. P. Buchanan. No. 1,140,495; May 25; Gaz. vol. 214; p. 1086.
 Railway signaling. J. S. Holliday. No. 1,127,438; Feb. 9; Gaz. vol. 211; p. 311.
 Railway signaling. T. S. Stevens. No. 1,152,448; Sept. 7; Gaz. vol. 218; p. 23.
 Railway signaling. J. D. Taylor. No. 1,144,509; June 29; Gaz. vol. 215; p. 1325.
 Railway signaling. H. A. Wallace. No. 1,163,720; Dec. 14; Gaz. vol. 221; p. 391.
 Railway signaling apparatus. W. Wright and L. Langford. No. 1,140,227; May 18; Gaz. vol. 214; p. 954.
 Railway signaling system. C. J. Coleman. No. 1,163,973; Dec. 14; Gaz. vol. 221; p. 478.
 Railway signaling system. G. Dalén. No. 1,153,840; Sept. 14; Gaz. vol. 218; p. 561.
 Railway signaling system. A. V. T. Day. No. 1,125,488; Jan. 19; Gaz. vol. 210; p. 885.
 Railway signaling system. C. F. Dingman. No. 1,143,755; June 22; Gaz. vol. 215; p. 1033.
 Railway signaling system. L. A. Hawkins. No. 1,126,206; Jan. 26; Gaz. vol. 210; p. 1177.
 Railway signaling system. O. W. Schlag, H. H. Burdorf, and E. E. Schlag. No. 1,125,736; Jan. 19; Gaz. vol. 210; p. 975.
 Railway signaling system and apparatus. C. J. Coleman. No. 1,160,993; Nov. 16; Gaz. vol. 220; p. 996.
 Railway-slate. A. Taylor. No. 1,157,264; Oct. 19; Gaz. vol. 219; p. 735.
 Railway-skid. Automatic. J. M. Stansell and C. D. Oland. No. 1,148,870; Aug. 3; Gaz. vol. 217; p. 137.
 Railway-sleeper. Built-up iron. M. Matthaei. No. 1,143,415; June 15; Gaz. vol. 215; p. 894.
 Railway-sleeper. Metal and concrete. J. T. Carney. No. 1,148,352; July 27; Gaz. vol. 216; p. 1253.
 Railway-sleeper. Reinforced-concrete. J. Nešetřil. No. 1,138,398; May 4; Gaz. vol. 214; p. 239.
 Railway snow-flanger. E. R. Packer. No. 1,162,096; Nov. 30; Gaz. vol. 220; p. 1475.
 Railway-speeders. Safety attachment for. R. K. Payne. No. 1,134,410; Apr. 6; Gaz. vol. 213; p. 119.
 Railway-spike. Z. O. Fischer. No. 1,133,947; Mar. 30; Gaz. vol. 212; p. 1609.
 Railway-spike. T. Howard. No. 1,165,778; Dec. 28; Gaz. vol. 221; p. 1189.
 Railway-spike. I. P. Payne. No. 1,152,656; Sept. 7; Gaz. vol. 218; p. 102.
 Railway-spike. M. C. Roberts and H. J. Cullum. No. 1,158,293; Oct. 26; Gaz. vol. 219; p. 1156.
 Railway-spike. C. D. Russell. No. 1,134,160; Apr. 6; Gaz. vol. 213; p. 27.
 Railway-spike. O. Weiss. No. 1,162,266; Nov. 30; Gaz. vol. 220; p. 1535.
 Railway-spike-securing device. E. James. No. 1,159,842; Nov. 9; Gaz. vol. 220; p. 537.
 Railway-station indicator. C. W. Groening. No. 1,152,725; Sept. 7; Gaz. vol. 218; p. 126.
 Railway structure. R. P. Williams. No. 1,164,043; Dec. 14; Gaz. vol. 221; p. 504.
 Railway. Suspension-. J. H. Smith. No. 1,137,361; Apr. 27; Gaz. vol. 213; p. 1286.
 Railway. Suspension-. J. H. Smith. No. 1,138,697; May 11; Gaz. vol. 214; p. 379.
 Railway. Suspension-. J. H. Smith. No. 1,142,124; June 8; Gaz. vol. 215; p. 403.
 Railway-switch. W. K. Anderson. No. 1,131,025; Mar. 9; Gaz. vol. 212; p. 446.
 Railway-switch. W. R. Bedingfield. No. 1,128,284; Feb. 16; Gaz. vol. 211; p. 659.
 Railway-switch. I. A. Call. No. 1,138,606; May 4; Gaz. vol. 214; p. 308.
 Railway-switch. A. D. Coalson. No. 1,148,756; Aug. 3; Gaz. vol. 217; p. 99.
 Railway-switch. F. N. Cordell. No. 1,132,242; Mar. 16; Gaz. vol. 212; p. 912.
 Railway-switch. C. F. Gerlinger and H. Hartwig. No. 1,151,941; Aug. 31; Gaz. vol. 217; p. 1480.
 Railway-switch. J. T. Hamilton and C. C. McMullen. No. 1,135,375; Apr. 13; Gaz. vol. 213; p. 500.
 Railway-switch. W. G. Harlan. No. 1,132,717; Mar. 23; Gaz. vol. 212; p. 1132.
 Railway-switch. C. F. Rebtov. No. 1,144,247; June 22; Gaz. vol. 215; p. 1207.
 Railway-switch. T. P. Reed. No. 1,129,015; Feb. 16; Gaz. vol. 211; p. 912.
 Railway-switch. L. G. Saint. No. 1,156,183; Oct. 12; Gaz. vol. 219; p. 323.
 Railway switch and signal apparatus. H. C. Williams. No. 1,151,316; Aug. 24; Gaz. vol. 217; p. 1220.
 Railway-switch and the like. W. A. Austin. No. 1,148,564; Aug. 3; Gaz. vol. 217; p. 29.
 Railway-switch. Automatic. J. Dubois and J. E. Jones. No. 1,140,966; May 25; Gaz. vol. 214; p. 1250.
 Railway-switch. Automatic. A. J. Gurney. No. 1,124,892; Jan. 12; Gaz. vol. 210; p. 639.
 Railway-switch. Automatic. A. J. Gurney. No. 1,147,319; July 20; Gaz. vol. 216; p. 858.
 Railway-switch device. Automatic. R. I. Partida. No. 1,153,819; Sept. 14; Gaz. vol. 218; p. 553.
 Railway-switch. Electric. G. Hyler and B. Herbison. No. 1,129,097; Feb. 23; Gaz. vol. 211; p. 976.
 Railway-switch mechanism. R. D. Livingston. No. 1,132,860; Mar. 23; Gaz. vol. 212; p. 1186.
 Railway-switch-operating means. Mechanical. A. Löffler. No. 1,134,627; Apr. 6; Gaz. vol. 213; p. 198.
 Railway-switch-operating mechanism. J. L. Miller. No. 1,131,940; Mar. 16; Gaz. vol. 212; p. 800.
 Railway-switch-operating mechanism or the like. W. A. Austin. No. 1,128,570; Feb. 16; Gaz. vol. 211; p. 756.
 Railway-switch or the like. C. O. Anderson. No. 1,128,568; Feb. 16; Gaz. vol. 211; p. 755.
 Railway-switch or the like. C. O. Anderson. No. 1,163,631; Dec. 14; Gaz. vol. 221; p. 357.
 Railway-switch. Pneumatic. C. Chappelle. No. 1,130,477; Mar. 2; Gaz. vol. 212; p. 224.
 Railway-switch. Safety. F. Leach. No. 1,133,865; Mar. 30; Gaz. vol. 212; p. 1583.
 Railway-switch-stand. C. A. Alden. No. 1,124,576; Jan. 12; Gaz. vol. 210; p. 525.
 Railway-switch stand. J. O. Burns. No. 1,127,959; Feb. 9; Gaz. vol. 211; p. 496.
 Railway-switch stop. E. D. Levy. No. 1,136,967; Apr. 27; Gaz. vol. 213; p. 1141.
 Railway-switch sweeper. C. M. Hurst. No. 1,131,702; Mar. 16; Gaz. vol. 212; p. 714.
 Railway switching and indicating circuits. W. H. Reichard. No. 1,133,819; Mar. 30; Gaz. vol. 212; p. 1567.
 Railway system. B. Macfadden. No. 1,133,734; Mar. 30; Gaz. vol. 212; p. 1536.
 Railway system. Charging. G. E. Titcomb. No. 1,140,214; May 18; Gaz. vol. 214; p. 951.
 Railway system. Electric. O. E. Falch, Jr. No. 1,127,217; Feb. 2; Gaz. vol. 211; p. 195.
 Railway system. Electric. P. W. Leffler. No. 1,133,296; Mar. 30; Gaz. vol. 212; p. 1378.
 Railway system. Electric. W. Robinson. No. 1,141,655; June 1; Gaz. vol. 215; p. 202.
 Railway system. Electric. A. Yurov. No. 1,140,093; May 18; Gaz. vol. 214; p. 910.
 Railway system. Monorail. L. E. Fischer. No. 1,125,284; Jan. 19; Gaz. vol. 210; p. 814.
 Railway systems. Safety apparatus for. A. Pecorella. No. 1,128,498; Feb. 16; Gaz. vol. 211; p. 731.
 Railway systems. Supply of energy to electric. C. H. Douglas. No. 1,163,514; Dec. 7; Gaz. vol. 221; p. 273.
 Railway-tie. J. A. Bilan. No. 1,153,670; Sept. 14; Gaz. vol. 218; p. 500.
 Railway-tie. H. Brown. No. 1,129,163; Feb. 23; Gaz. vol. 211; p. 999.
 Railway-tie. H. Cockell. No. 1,147,076; July 20; Gaz. vol. 216; p. 775.
 Railway-tie. W. W. Cooper. No. 1,139,753; May 18; Gaz. vol. 214; p. 788.
 Railway-tie. L. A. Curtis. No. 1,151,346; Aug. 24; Gaz. vol. 217; p. 1229.
 Railway-tie. T. M. Daniels. No. 1,128,950; Feb. 16; Gaz. vol. 211; p. 890.
 Railway-tie. S. A. Duke. No. 1,145,296; July 6; Gaz. vol. 216; p. 112.
 Railway-tie. B. Q. P. Foss. No. 1,136,113; Apr. 20; Gaz. vol. 213; p. 800.
 Railway-tie. H. J. Goodyear. No. 1,136,871; Apr. 20; Gaz. vol. 213; p. 1070.
 Railway-tie. F. F. Green. No. 1,143,188; June 15; Gaz. vol. 215; p. 814.
 Railway-tie. C. Hadcock. No. 1,148,585; Aug. 3; Gaz. vol. 217; p. 37.
 Railway-tie. C. Harbaugh and C. C. Brosius. No. 1,158,919; Nov. 2; Gaz. vol. 220; p. 178.
 Railway-tie. J. E. Hatton. No. 1,154,013; Sept. 21; Gaz. vol. 218; p. 655.

Alphabetical list of inventions—Continued.

- Railway-tie. S. H. Herbst, Jr. No. 1,130,511; Mar. 2; Gaz. vol. 212; p. 235.
- Railway-tie. H. Hless. No. 1,143,964; June 22; Gaz. vol. 215; p. 1106.
- Railway-tie. H. G. Houghton. No. 1,153,387; Sept. 14; Gaz. vol. 218; p. 401.
- Railway-tie. H. G. Houghton. No. 1,160,174; Nov. 16; Gaz. vol. 220; p. 707.
- Railway-tie. J. A. Hyle. No. 1,145,141; July 6; Gaz. vol. 216; p. 58.
- Railway-tie. M. Imes. No. 1,133,727; Mar. 30; Gaz. vol. 212; p. 1534.
- Railway-tie. M. Karpowicz. No. 1,152,417; Sept. 7; Gaz. vol. 218; p. 12.
- Railway-tie. A. Kushlan. No. 1,162,495; Nov. 30; Gaz. vol. 220; p. 1613.
- Railway-tie. W. Lawless. No. 1,135,823; Apr. 13; Gaz. vol. 213; p. 659.
- Railway-tie. C. C. Lewis. No. 1,146,721; July 13; Gaz. vol. 216; p. 630.
- Railway-tie. B. H. Light. No. 1,164,536; Dec. 14; Gaz. vol. 221; p. 675.
- Railway-tie. A. J. Lynch. No. 1,127,788; Feb. 9; Gaz. vol. 211; p. 434.
- Railway-tie. S. Martin. No. 1,141,811; June 1; Gaz. vol. 215; p. 253.
- Railway-tie. K. Mohr. No. 1,165,274; Dec. 21; Gaz. vol. 221; p. 974.
- Railway-tie. R. A. Oneal. No. 1,124,644; Jan. 12; Gaz. vol. 210; p. 551.
- Railway-tie. F. Quist. No. 1,127,277; Feb. 2; Gaz. vol. 211; p. 215.
- Railway-tie. W. A. Rhinesmith. No. 1,148,051; July 27; Gaz. vol. 216; p. 1144.
- Railway-tie. E. Samuelson. No. 1,126,573; Jan. 26; Gaz. vol. 210; p. 1310.
- Railway-tie. G. Sapegno. No. 1,143,442; June 15; Gaz. vol. 215; p. 904.
- Railway-tie. J. W. Saxon. No. 1,165,910; Dec. 28; Gaz. vol. 221; p. 1234.
- Railway-tie. C. W. Smith. No. 1,126,110; Jan. 26; Gaz. vol. 210; p. 1141.
- Railway-tie. E. H. Spiers. No. 1,155,287; Sept. 28; Gaz. vol. 218; p. 1116.
- Railway-tie. J. W. St. Clair. No. 1,144,441; June 29; Gaz. vol. 215; p. 1302.
- Railway-tie. L. Steidle. No. 1,160,460; Nov. 16; Gaz. vol. 220; p. 805.
- Railway-tie. R. A. Summers. No. 1,151,062; Aug. 24; Gaz. vol. 217; p. 1133.
- Railway-tie. L. T. Thorn. No. 1,133,761; Mar. 30; Gaz. vol. 212; p. 1545.
- Railway-tie. A. Victor. No. 1,163,717; Dec. 14; Gaz. vol. 221; p. 390.
- Railway-tie. W. Walker. No. 1,123,963; Jan. 5; Gaz. vol. 210; p. 259.
- Railway-tie. L. A. Walters. No. 1,161,091; Nov. 23; Gaz. vol. 220; p. 1075.
- Railway-tie. W. W. Willard. No. 1,130,455; Mar. 2; Gaz. vol. 212; p. 215.
- Railway tie and ballast. I. S. Fisher. No. 1,141,049; May 25; Gaz. vol. 214; p. 1279.
- Railway-tie and brace. H. M. Bodine. No. 1,132,155; Mar. 16; Gaz. vol. 212; p. 879.
- Railway-tie and clamp. S. R. Still. No. 1,136,288; Apr. 20; Gaz. vol. 213; p. 863.
- Railway-tie and fastener. W. A. Lockard. No. 1,137,990; May 4; Gaz. vol. 214; p. 93.
- Railway-tie and fastener. W. S. Magee and C. R. McCarren. No. 1,124,772; Jan. 12; Gaz. vol. 210; p. 596.
- Railway-tie and fastener. F. Ogarek. No. 1,162,095; Nov. 30; Gaz. vol. 220; p. 1475.
- Railway-tie and fastener. J. Olson. No. 1,152,206; Aug. 31; Gaz. vol. 217; p. 1571.
- Railway-tie and fastening, Metallic. B. M. Johnson. No. 1,162,067; Nov. 30; Gaz. vol. 220; p. 1465.
- Railway-tie and fastening therefor. H. J. Faubel and W. Roach. No. 1,145,298; July 6; Gaz. vol. 216; p. 112.
- Railway-tie and rail-clamp, Combined. J. F. Hawley. No. 1,134,130; Apr. 6; Gaz. vol. 213; p. 17.
- Railway-tie and rail-grip. J. E. Langford. No. 1,131,388; Mar. 9; Gaz. vol. 212; p. 570.
- Railway-tie and rail-lock. A. M. Threewits. No. 1,157,459; Oct. 19; Gaz. vol. 219; p. 802.
- Railway-tie, Composite. W. H. Knickrehm. No. 1,154,779; Sept. 28; Gaz. vol. 218; p. 946.
- Railway-tie, Metal. W. D. Forsyth. No. 1,131,356; Mar. 9; Gaz. vol. 212; p. 558.
- Railway-tie, Metallic. A. F. Brown. No. 1,127,350; Feb. 2; Gaz. vol. 211; p. 238.
- Railway-tie, Metallic. A. F. Brown. No. 1,158,975; Nov. 2; Gaz. vol. 220; p. 196.
- Railway-tie, Metallic. W. C. Frank. No. 1,135,171; Apr. 13; Gaz. vol. 213; p. 431.
- Railway-tie, Metallic. J. O. Freeman. No. 1,130,586; Mar. 2; Gaz. vol. 212; p. 261.
- Railway-tie, Metallic. M. B. Goodwin. No. 1,159,210; Nov. 2; Gaz. vol. 220; p. 279.
- Railway-tie, Metallic. S. C. Gunn. No. 1,124,423; Jan. 12; Gaz. vol. 210; p. 469.
- Railway-tie, Metallic. E. E. Slick. No. 1,142,278; June 8; Gaz. vol. 215; p. 456.
- Railway-tie, Metallic. W. M. Sullivan. No. 1,126,125; Jan. 26; Gaz. vol. 210; p. 1147.
- Railway-tie, Metallic. J. F. Vallin. No. 1,138,428; May 4; Gaz. vol. 214; p. 249.
- Railway-tie, Metallic. A. C. Wildy. No. 1,160,229; Nov. 16; Gaz. vol. 220; p. 725.
- Railway-tie, Metallic. A. Yates. No. 1,162,326; Nov. 30; Gaz. vol. 220; p. 1556.
- Railway-tie plate. J. T. McGonigal. No. 1,151,891; Aug. 31; Gaz. vol. 217; p. 1464.
- Railway-tie plate. J. W. Thomas. No. 1,143,559; June 15; Gaz. vol. 215; p. 942.
- Railway-tie, Reinforced-concrete. R. H. F. Sewall. No. 1,131,562; Mar. 9; Gaz. vol. 212; p. 630.
- Railway-tie, Safety cement. W. M. Perkins. No. 1,156,095; Oct. 12; Gaz. vol. 219; p. 294.
- Railway-ties and the like, Machine for barking. H. L. Galloway and T. W. Somerville. No. 1,127,985; Feb. 9; Gaz. vol. 211; p. 504.
- Railway-ties, Ballast-tamper for. G. W. Vaughan. No. 1,147,660; July 20; Gaz. vol. 216; p. 980.
- Railway-ties, Cap for. H. S. Gover. No. 1,127,881; Feb. 9; Gaz. vol. 211; p. 468.
- Railway-track. T. G. McNeill. No. 1,126,538; Jan. 26; Gaz. vol. 210; p. 1297.
- Railway-track. W. M. Osborn. No. 1,125,873; Jan. 19; Gaz. vol. 210; p. 1021.
- Railway-track appliance. J. W. Thomas. No. 1,137,809; May 4; Gaz. vol. 214; p. 30.
- Railway-track appliance. J. W. Thomas. No. 1,149,307; Aug. 10; Gaz. vol. 217; p. 396.
- Railway-track attachment. H. A. Feltus. No. 1,125,677; Jan. 19; Gaz. vol. 210; p. 954.
- Railway-track cleaner. W. H. Coates. No. 1,162,338; Nov. 30; Gaz. vol. 220; p. 1559.
- Railway-track construction. G. H. Barbour. No. 1,144,164; June 22; Gaz. vol. 215; p. 1178.
- Railway-track construction. W. H. Morgan. No. 1,123,781; Jan. 5; Gaz. vol. 210; p. 200.
- Railway-track construction. W. H. Morgan. No. 1,123,782; Jan. 5; Gaz. vol. 210; p. 200.
- Railway-track construction. W. H. Morgan. (Reissue.) No. 1,39,917; May 11; Gaz. vol. 214; p. 654.
- Railway-track crossing. G. H. Knowles. No. 1,153,166; Sept. 7; Gaz. vol. 218; p. 282.
- Railway-track, Device for spacing the rail-sections of a. W. B. Skinner. No. 1,157,815; Oct. 26; Gaz. vol. 219; p. 987.
- Railway-track signal-actuating device. J. E. Johnson. No. 1,163,347; Dec. 7; Gaz. vol. 221; p. 215.
- Railway-track sweeper. W. S. Adams. No. 1,161,574; Nov. 23; Gaz. vol. 220; p. 1248.
- Railway-track switch. W. A. Stull. No. 1,152,573; Sept. 7; Gaz. vol. 218; p. 72.
- Railway-track switches, Disappearing signal-target and light for. E. R. Williams. No. 1,139,148; May 11; Gaz. vol. 214; p. 541.
- Railway-traffic-controlling apparatus. F. J. Ackerman. No. 1,131,979; Mar. 16; Gaz. vol. 212; p. 815.
- Railway-traffic-controlling apparatus. F. J. Ackerman. No. 1,131,980; Mar. 16; Gaz. vol. 212; p. 815.
- Railway-traffic-controlling apparatus. F. J. Ackerman. No. 1,131,981; Mar. 16; Gaz. vol. 212; p. 816.
- Railway-traffic-controlling apparatus. W. P. Allen and G. R. Scattergood. No. 1,144,017; June 22; Gaz. vol. 215; p. 1125.
- Railway-traffic-controlling apparatus. J. P. Coleman. No. 1,127,593; Feb. 9; Gaz. vol. 211; p. 365.
- Railway-traffic-controlling apparatus. A. V. T. Day. No. 1,163,069; Dec. 7; Gaz. vol. 221; p. 116.
- Railway-traffic-controlling apparatus. J. S. Holliday. No. 1,147,169; July 20; Gaz. vol. 216; p. 807.
- Railway-traffic-controlling apparatus. J. M. Waldron. No. 1,154,742; Sept. 28; Gaz. vol. 218; p. 933.
- Railway-traffic-controlling devices, Indication-circuit for. P. Utne. No. 1,131,297; Mar. 9; Gaz. vol. 212; p. 539.
- Railway-traffic-controlling system. A. V. T. Day. No. 1,144,465; June 29; Gaz. vol. 215; p. 1310.
- Railway-traffic-controlling system. A. V. T. Day. No. 1,157,850; Oct. 26; Gaz. vol. 219; p. 1000.
- Railway-train. C. Theryc. No. 1,152,451; Sept. 7; Gaz. vol. 218; p. 24.
- Railway-train-controlling apparatus. B. Fay. No. 1,124,002; Jan. 5; Gaz. vol. 210; p. 273.
- Railway-train-controlling system. J. C. McDonald. No. 1,151,025; Aug. 24; Gaz. vol. 217; p. 1121.
- Railway-train-controlling system. J. C. McDonald. No. 1,151,026; Aug. 24; Gaz. vol. 217; p. 1122.
- Railway-train-controlling system. J. C. McDonald. No. 1,151,027; Aug. 24; Gaz. vol. 217; p. 1122.
- Railway-train safety apparatus. T. M. Freeble. No. 1,155,478; Oct. 5; Gaz. vol. 219; p. 54.
- Railway-train safety appliance. C. E. Baumer and J. Correy. No. 1,131,594; Mar. 9; Gaz. vol. 212; p. 641.
- Railway-train safety device. O. M. De Munnick. No. 1,140,580; May 25; Gaz. vol. 214; p. 1114.
- Railway-train safety-door and signaling system, Combined. J. S. Doyle. No. 1,150,932; Aug. 24; Gaz. vol. 217; p. 1090.

Alphabetical list of inventions—Continued.

- Railway-train signaling system. E. H. Boudwin. No. 1,148,142; July 27; Gaz. vol. 216; p. 1178.
- Railway-trains, Apparatus for controlling. J. O. Query. No. 1,157,723; Oct. 26; Gaz. vol. 219; p. 957.
- Railway-trains, Automatic brake-setting and signal-operating apparatus for. T. H. Sheldon. No. 1,130,028; Mar. 2; Gaz. vol. 212; p. 65.
- Railway-trains, Automatic control system for. A. S. Jones. No. 1,141,873; June 1; Gaz. vol. 215; p. 273.
- Railway-trains, Automatic safety device for. R. C. Lacy. No. 1,126,790; Feb. 2; Gaz. vol. 211; p. 45.
- Railway-trains, Automatic stop for. W. Horschler. No. 1,127,248; Feb. 2; Gaz. vol. 211; p. 206.
- Railway-trains, Safety coupling-release system for. A. F. Hetherington. No. 1,141,393; June 1; Gaz. vol. 215; p. 110.
- Railway-trains, Telephonic-telegraphic communication system for. F. Arena. No. 1,145,287; July 6; Gaz. vol. 216; p. 108.
- Railway-transfer. A. Ginss. No. 1,137,398; Apr. 27; Gaz. vol. 213; p. 1299.
- Railway trench-machine. M. G. Bunnell. No. 1,158,979; Nov. 2; Gaz. vol. 220; p. 198.
- Railway turn-tables, Safety device for. J. T. Sheridan. No. 1,135,855; Apr. 13; Gaz. vol. 213; p. 670.
- Railway-vehicle. W. Cooper. No. 1,166,187; Dec. 28; Gaz. vol. 221; p. 1333.
- Railway-vehicle coupling. W. Rundle. No. 1,153,577; Sept. 14; Gaz. vol. 218; p. 470.
- Railway-vehicle draft-gear. J. H. McCormick. No. 1,127,656; Feb. 9; Gaz. vol. 211; p. 384.
- Railway-vehicles, Draft appliance for. W. McConway, Jr. No. 1,148,029; July 27; Gaz. vol. 216; p. 1136.
- Railway-vehicles, Draft appliance for. J. F. Price. No. 1,164,209; Dec. 14; Gaz. vol. 221; p. 559.
- Railway-vehicles, Draft appliance for. W. J. Regan. No. 1,155,097; Sept. 28; Gaz. vol. 218; p. 1056.
- Railway-vehicles, Pantograph-grounding circuits for electric. E. R. Hill. No. 1,142,881; June 15; Gaz. vol. 215; p. 705.
- Railways and fastening device therefor, Metallic tie for. F. B. Miles. No. 1,129,887; Mar. 2; Gaz. vol. 212; p. 19.
- Railways, Apparatus for actuating conduit-covers and collector-plows for electric. D. Samala. No. 1,152,914; Sept. 7; Gaz. vol. 218; p. 196.
- Railways, Apparatus for controlling trains on. J. W. Wright. No. 1,165,054; Dec. 21; Gaz. vol. 221; p. 896.
- Railways, Automatic block-signaling system for electric. S. M. Day. No. 1,137,705; Apr. 27; Gaz. vol. 213; p. 1400.
- Railways, Automatic block-signaling system for electric. O. E. Stevens. No. 1,163,182; Dec. 7; Gaz. vol. 221; p. 157.
- Railways, Automatic stop for. J. G. Sparks. No. 1,158,326; Oct. 26; Gaz. vol. 219; p. 1168.
- Railways, Automatic warning system for electric. E. R. Hill. No. 1,131,133; Mar. 9; Gaz. vol. 212; p. 482.
- Railways, Catenary suspension of the trolley-wire for electric. F. Lautenbacher. No. 1,157,702; Oct. 26; Gaz. vol. 219; p. 949.
- Railways, Current-collector for electric. H. Schütte. No. 1,159,536; Nov. 9; Gaz. vol. 220; p. 424.
- Railways, Current-supply system for electric. W. F. Byram and R. P. Phronebarger. No. 1,134,371; Apr. 6; Gaz. vol. 213; p. 105.
- Railways, Electrically-operated system of and apparatus for automatic signaling on. E. W. Bottle. No. 1,140,659; May 25; Gaz. vol. 214; p. 1141.
- Railways, Grain-door for. A. R. Peterson. No. 1,135,918; Apr. 13; Gaz. vol. 213; p. 691.
- Railways, Guard and rerailing device for. W. E. Young and W. R. Glancy. No. 1,126,155; Jan. 26; Gaz. vol. 210; p. 1157.
- Railways, Magnetic apparatus for. A. H. Fox. No. 1,162,468; Nov. 30; Gaz. vol. 220; p. 1604.
- Railways, Means for the prevention of accidents on. T. C. Kerr. No. 1,152,953; Sept. 7; Gaz. vol. 218; p. 211.
- Railways, Overhead-conductor point for electric. K. von Kando. No. 1,148,876; Aug. 3; Gaz. vol. 217; p. 139.
- Railways, Plow for electric conduit. A. Yurow. No. 1,140,094; May 18; Gaz. vol. 214; p. 910.
- Railways, Portable safety-stop for. G. M. Ferguson. No. 1,142,807; June 15; Gaz. vol. 215; p. 679.
- Railways, Safety cut-out for electric. H. H. D. Helberg. No. 1,165,254; Dec. 21; Gaz. vol. 221; p. 967.
- Railways, Safety stop apparatus for. I. Czavra. No. 1,135,670; Apr. 13; Gaz. vol. 213; p. 607.
- Railways, Switch for electric conduit. A. Yurow. No. 1,140,230; May 18; Gaz. vol. 214; p. 955.
- Railways, System of automatic block-signaling for electric. G. H. Benjamin. No. 1,163,063; Dec. 7; Gaz. vol. 221; p. 114.
- Railways, System of automatic block-signaling for electric. F. Townsend. No. 1,129,143; Feb. 23; Gaz. vol. 211; p. 993.
- Railways, Time-controlled protective system for. C. Hansel. No. 1,161,663; Nov. 23; Gaz. vol. 220; p. 1277.
- Rail-alarm, Electric. H. J. Hirschmann. No. 1,135,798; Apr. 13; Gaz. vol. 213; p. 650.
- Rain-coat, slicker-suit, and life-preserver, Combined. P. Waskin. No. 1,130,778; Mar. 9; Gaz. vol. 212; p. 361.
- Rain-gage. W. E. Tredway. No. 1,153,355; Sept. 14; Gaz. vol. 218; p. 389.
- Rain-indicator. C. E. Smith. No. 1,137,674; Apr. 27; Gaz. vol. 213; p. 1390.
- Rain-signal. J. J. Barrash. No. 1,143,246; June 15; Gaz. vol. 215; p. 835.
- Rain-water cut-off. G. C. Crandall. No. 1,151,001; Aug. 24; Gaz. vol. 217; p. 1113.
- Raising and lowering mechanism. A. Kadow. No. 1,151,795; Aug. 31; Gaz. vol. 217; p. 1430.
- Raising and lowering mechanism. G. E. Rellay. No. 1,125,713; Jan. 19; Gaz. vol. 210; p. 968.
- Raisins and other fruit, Method of and apparatus for curing. O. Tashjian. No. 1,140,009; May 18; Gaz. vol. 214; p. 879.
- Rake: See—
- Clam-rake. Lawn or garden rake.
 - Cylinder-rake. Push-rake.
 - Garden-rake. Self-cleaning rake.
 - Grain-rake. Side-delivery rake.
 - Hand-rake. Stone-rake.
 - Hay-rake. Sweep-rake.
 - Lawn-rake.
- Rake. G. N. Barrie. No. 1,130,789; Mar. 9; Gaz. vol. 212; p. 364.
- Rake. J. Carroll. No. 1,123,682; Jan. 5; Gaz. vol. 210; p. 165.
- Rake. J. C. Doust. No. 1,158,649; Nov. 2; Gaz. vol. 220; p. 85.
- Rake. A. O. Glau. No. 1,128,130; Feb. 9; Gaz. vol. 211; p. 555.
- Rake. J. A. Gould. No. 1,139,270; May 11; Gaz. vol. 214; p. 582.
- Rake. H. B. Granger. No. 1,132,334; Mar. 16; Gaz. vol. 212; p. 945.
- Rake. H. W. Hall. No. 1,128,680; Feb. 16; Gaz. vol. 211; p. 794.
- Rake. C. C. Harris. No. 1,162,055; Nov. 30; Gaz. vol. 220; p. 1460.
- Rake. E. M. Hill and G. W. Lupton. No. 1,125,531; Jan. 19; Gaz. vol. 210; p. 900.
- Rake. E. Lund. No. 1,159,970; Nov. 9; Gaz. vol. 220; p. 583.
- Rake. C. J. Mallett. No. 1,154,790; Sept. 28; Gaz. vol. 218; p. 950.
- Rake. C. C. Stevens. No. 1,133,676; Mar. 30; Gaz. vol. 212; p. 1516.
- Rake. K. T. Tanaka. No. 1,149,098; Aug. 3; Gaz. vol. 217; p. 215.
- Rake. G. E. Townsend. No. 1,142,127; June 8; Gaz. vol. 215; p. 404.
- Rake. J. F. Wixom. No. 1,131,887; Mar. 16; Gaz. vol. 212; p. 781.
- Rake attachment. L. H. Hartman. No. 1,151,584; Aug. 31; Gaz. vol. 217; p. 1357.
- Rake attachment. H. A. Restetsky. No. 1,126,273; Jan. 26; Gaz. vol. 210; p. 1200.
- Rake attachment. G. R. Zorn. No. 1,124,097; Jan. 5; Gaz. vol. 210; p. 305.
- Rake attachment, Hay-. M. Turk. No. 1,136,565; Apr. 20; Gaz. vol. 213; p. 963.
- Rake attachment, Reaper-. J. W. Zuzik. No. 1,132,820; Mar. 23; Gaz. vol. 212; p. 1172.
- Rake-cleaner. W. H. Backus. No. 1,158,022; Oct. 26; Gaz. vol. 219; p. 1061.
- Rake-cleaner. J. A. and W. A. Brewer. No. 1,136,770; Apr. 20; Gaz. vol. 213; p. 1035.
- Rake-cleaner. J. L. Byram. No. 1,140,663; May 25; Gaz. vol. 214; p. 1143.
- Rake-cleaner. S. E. Douglass. No. 1,155,897; Oct. 5; Gaz. vol. 219; p. 199.
- Rake-cleaner. A. Lee. No. 1,133,729; Mar. 30; Gaz. vol. 212; p. 1534.
- Rake-cleaner. W. G. Schooley. No. 1,123,395; Jan. 5; Gaz. vol. 210; p. 68.
- Rake-cleaner. C. C. Warden. No. 1,142,740; June 8; Gaz. vol. 215; p. 613.
- Rake-cleaner. W. Watson. No. 1,156,729; Oct. 12; Gaz. vol. 219; p. 515.
- Rake-cleaning attachment. G. B. Gardner. No. 1,136,002; Apr. 20; Gaz. vol. 213; p. 763.
- Rake-clearing attachment. J. F. Merrell. No. 1,157,566; Oct. 19; Gaz. vol. 219; p. 838.
- Rake-cleaning device, Hand-. S. Berge. No. 1,138,530; May 4; Gaz. vol. 214; p. 282.
- Rake push, Sweep-. W. F. and O. P. Resler. No. 1,127,681; Feb. 9; Gaz. vol. 211; p. 394.
- Rake-sweep. J. J. Sampson. No. 1,147,894; July 27; Gaz. vol. 216; p. 1088.
- Rake-tooth. J. Macphail. No. 1,147,741; July 27; Gaz. vol. 216; p. 1035.
- Rake-tooth cleaner. J. A. Goodsell. No. 1,144,703; June 29; Gaz. vol. 215; p. 1391.
- Rake-tooth point. H. A. Smith. No. 1,163,698; Dec. 14; Gaz. vol. 221; p. 383.
- Rakes and forks, Blank for making. L. S. Whitney. No. 1,142,000; June 8; Gaz. vol. 215; p. 357.
- Rakes, forks, and the like, Making. L. S. Whitney. No. 1,142,001; June 8; Gaz. vol. 215; p. 357.
- Rakes, Rake control for buck-. C. G. Brownell. No. 1,162,129; Nov. 30; Gaz. vol. 220; p. 1488.

Alphabetical list of inventions—Continued.

- Rakes, Self-cleaning attachment for. C. D. Wright. No. 1,137,825; May 4; Gaz. vol. 214; p. 36.
- Rakes, Tooth-holder for sulky hay-. J. Macphail. No. 1,126,813; Feb. 2; Gaz. vol. 211; p. 53.
- Raker-gage. H. E. Gordon. No. 1,165,166; Dec. 21; Gaz. vol. 221; p. 937.
- Ram, Hydraulic. W. Nicholas. No. 1,148,982; Aug. 3; Gaz. vol. 217; p. 176.
- Ram press, Inverted-. F. B. Northrup. No. 1,158,830; Nov. 2; Gaz. vol. 220; p. 149.
- Rammer operated by compressed air, Hand-. J. F. W. Griese. No. 1,144,838; June 29; Gaz. vol. 215; p. 1438.
- Rand-guide for rand-attaching machines. A. A. Aston. No. 1,123,213; Jan. 5; Gaz. vol. 210; p. 3.
- Range. W. S. Hadaway, Jr. No. 1,155,480; Oct. 5; Gaz. vol. 219; p. 55.
- Range. J. A. Lansing. No. 1,153,322; Sept. 14; Gaz. vol. 218; p. 375.
- Range and coil heater. H. E. Vinger. No. 1,153,408; Sept. 14; Gaz. vol. 218; p. 408.
- Range and cooking-stove, Combined. M. A. Malloy. No. 1,157,885; Oct. 26; Gaz. vol. 219; p. 1012.
- Range and deflection computer. A. Barr and W. Stroud. No. 1,147,358; July 20; Gaz. vol. 216; p. 872.
- Range attachment, Gas-. F. J. Mellady. No. 1,140,994; May 25; Gaz. vol. 214; p. 1259.
- Range burner and support therefor, Gas-. A. B. Bell. No. 1,163,202; Dec. 7; Gaz. vol. 221; p. 164.
- Range, Combination coal and gas. H. C. Maul. No. 1,154,038; Sept. 21; Gaz. vol. 218; p. 663.
- Range, Combined coal and gas. C. F. Coda. No. 1,164,070; Dec. 14; Gaz. vol. 221; p. 514.
- Range, Combined coal and gas. G. E. Heidbreder. No. 1,156,999; Oct. 19; Gaz. vol. 219; p. 639.
- Range, Combined coal and gas. S. C. Rockman. No. 1,155,758; Oct. 5; Gaz. vol. 219; p. 149.
- Range, Combined gas and coal. J. L. Bright. No. 1,142,928; June 15; Gaz. vol. 215; p. 722.
- Range, Cooking-. H. A. Ahrens. No. 1,141,748; June 1; Gaz. vol. 215; p. 233.
- Range, Cooking-. J. E. Gloekler. No. 1,165,004; Dec. 21; Gaz. vol. 221; p. 879.
- Range door, Gas-. M. A. Possons. No. 1,154,430; Sept. 21; Gaz. vol. 218; p. 798.
- Range, Electric. E. G. Van Wie and R. W. Davenport. No. 1,148,639; Aug. 3; Gaz. vol. 217; p. 56.
- Range, Electric. R. Williams. No. 1,154,954; Sept. 28; Gaz. vol. 218; p. 1005.
- Range, Electric cooking-. W. J. Keep. No. 1,157,111; Oct. 19; Gaz. vol. 219; p. 678.
- Range, Electrically-heated kitchen-. O. Sælid and K. Petersen. No. 1,154,270; Sept. 21; Gaz. vol. 218; p. 743.
- Range-finder. G. Griffith. No. 1,152,171; Aug. 31; Gaz. vol. 217; p. 1560.
- Range-finder. A. M. Kennedy. No. 1,154,252; Sept. 21; Gaz. vol. 218; p. 737.
- Range-finders, Means for use in association with. A. Barr and W. Stroud. No. 1,164,326; Dec. 14; Gaz. vol. 221; p. 602.
- Range-finders, Optical instrument especially applicable to. H. D. Taylor. No. 1,140,010; May 18; Gaz. vol. 214; p. 880.
- Range, Gas-. R. B. Caverly and A. B. Bell. No. 1,159,896; Nov. 9; Gaz. vol. 220; p. 555.
- Range, Gas-. M. J. Green. No. 1,140,740; May 25; Gaz. vol. 214; p. 1168.
- Range, Gas-. F. C. Ludlow. No. 1,159,239; Nov. 2; Gaz. vol. 220; p. 289.
- Range, Gas-. M. A. Possons. No. 1,160,755; Nov. 16; Gaz. vol. 220; p. 913.
- Range, Gas-. J. S. Van Buren. No. 1,126,593; Jan. 26; Gaz. vol. 210; p. 1318.
- Range, Gas-. J. H. Walker. No. 1,161,427; Nov. 23; Gaz. vol. 220; p. 1197.
- Range-indicating mechanism. A. T. Dawson and G. T. Buckham. No. 1,161,292; Nov. 23; Gaz. vol. 220; p. 1148.
- Range, Kitchen-. J. Erben. No. 1,131,688; Mar. 16; Gaz. vol. 212; p. 709.
- Range support, Gas-. R. B. Caverly and A. B. Bell. No. 1,162,451; Nov. 30; Gaz. vol. 220; p. 1598.
- Ranges, Burner-box for gas-. A. B. Bell. No. 1,159,351; Nov. 9; Gaz. vol. 220; p. 359.
- Ranges, Gas-burner for. T. H. Kelly. No. 1,151,188; Aug. 24; Gaz. vol. 217; p. 1177.
- Rat-guard. F. E. Maynard. No. 1,160,634; Nov. 16; Gaz. vol. 220; p. 869.
- Rat-trap. J. Cook. No. 1,163,587; Dec. 7; Gaz. vol. 221; p. 298.
- Rat-trap. W. and C. Duplantis. No. 1,164,483; Dec. 14; Gaz. vol. 221; p. 657.
- Rat-trap. S. Onyskow. No. 1,131,000; Mar. 9; Gaz. vol. 212; p. 437.
- Rat-trap, Automatic. J. H. Gassaway. No. 1,162,599; Nov. 30; Gaz. vol. 220; p. 1646.
- Rat-trap mechanism. P. W. Lotz. No. 1,150,135; Aug. 17; Gaz. vol. 217; p. 754.
- Ratchet compound speed-wrench. A. E. Ruth. No. 1,155,960; Oct. 5; Gaz. vol. 219; p. 221.
- Ratchet-drill. A. B. Carll. No. 1,138,276; May 4; Gaz. vol. 214; p. 193.
- Ratchet-drill. T. J. Fegley and G. O. Leopold. No. 1,163,072; Dec. 7; Gaz. vol. 221; p. 117.
- Ratchet-drill. O. Smedstad. No. 1,130,770; Mar. 9; Gaz. vol. 212; p. 358.
- Ratchet mechanism. A. Falkenau. No. 1,150,587; Aug. 17; Gaz. vol. 217; p. 913.
- Ratchet mechanism. J. T. Huck. No. 1,142,574; June 8; Gaz. vol. 215; p. 560.
- Ratchet mechanism. R. A. Norling. No. 1,130,925; Mar. 9; Gaz. vol. 212; p. 412.
- Ratchet mechanism. W. C. Starkey. No. 1,145,709; July 6; Gaz. vol. 216; p. 258.
- Ratchet mechanism for tools. A. B. Carll. No. 1,138,277; May 4; Gaz. vol. 214; p. 194.
- Ratchet mechanism, Intermittent. R. J. McCoy. No. 1,129,701; Feb. 23; Gaz. vol. 211; p. 1185.
- Ratchet sleeve-wrench. C. Gushwa and C. F. Wilsey. No. 1,132,257; Mar. 16; Gaz. vol. 212; p. 917.
- Ratchet swivel for drilling cables. A. A. Howard and J. M. Burger. No. 1,150,196; Aug. 17; Gaz. vol. 217; p. 777.
- Ratchet-wrench. H. L. Ash. No. 1,127,717; Feb. 9; Gaz. vol. 211; p. 408.
- Ratchet-wrench. E. Franke. No. 1,163,229; Dec. 7; Gaz. vol. 221; p. 173.
- Ratchet-wrench. H. M. Kolb and R. F. Sedgley. No. 1,140,167; May 18; Gaz. vol. 214; p. 935.
- Ratchet-wrench. L. F. Meyer. No. 1,161,064; Nov. 23; Gaz. vol. 220; p. 1065.
- Ratchet-wrench. G. C. Reid. No. 1,154,056; Sept. 21; Gaz. vol. 218; p. 670.
- Ratchet-wrench. H. O. Skjervem. No. 1,164,764; Dec. 21; Gaz. vol. 221; p. 795.
- Rate-finder. F. J. Baur. No. 1,129,033; Feb. 16; Gaz. vol. 211; p. 919.
- Rattle. J. A. Ryan. No. 1,158,298; Oct. 26; Gaz. vol. 219; p. 1158.
- Rattling devices, Polishing element for. T. A. De Vilbiss. No. 1,133,368; Mar. 30; Gaz. vol. 212; p. 1404.
- Ray-tube. E. H. Grubbe. No. 1,131,234; Mar. 9; Gaz. vol. 212; p. 517.
- Razor. A. R. Camden. No. 1,127,182; Feb. 2; Gaz. vol. 211; p. 182.
- Razor. F. H. P. Fickeissen. No. 1,125,996; Jan. 26; Gaz. vol. 210; p. 1099.
- Razor. A. O. Gale. No. 1,123,865; Jan. 5; Gaz. vol. 210; p. 228.
- Razor. J. R. and Q. J. Hoke and P. Michaels. No. 1,161,311; Nov. 23; Gaz. vol. 220; p. 1155.
- Razor. M. Keislar. No. 1,143,832; June 22; Gaz. vol. 215; p. 1060.
- Razor. N. Shure. No. 1,124,668; Jan. 12; Gaz. vol. 210; p. 559.
- Razor. H. H. Simms. No. 1,133,326; Mar. 30; Gaz. vol. 212; p. 1388.
- Razor. H. H. Simms. No. 1,133,327; Mar. 30; Gaz. vol. 212; p. 1389.
- Razor. H. H. Simms. No. 1,133,328; Mar. 30; Gaz. vol. 212; p. 1389.
- Razor. H. H. Simms. No. 1,133,329; Mar. 30; Gaz. vol. 212; p. 1390.
- Razor and massage mechanism, Revolving safety-. G. L. Bonham. No. 1,158,781; Nov. 2; Gaz. vol. 220; p. 130.
- Razor-blade. E. A. Fuller. No. 1,135,008; Apr. 13; Gaz. vol. 213; p. 375.
- Razor-blade. A. W. Proctor. No. 1,123,371; Jan. 5; Gaz. vol. 210; p. 60.
- Razor-blade holder. H. Beldoch. No. 1,163,061; Dec. 7; Gaz. vol. 221; p. 113.
- Razor-blade holder. A. H. Fleming. No. 1,147,226; July 20; Gaz. vol. 216; p. 828.
- Razor-blade holder, Safety-. M. Becker. No. 1,140,942; May 25; Gaz. vol. 214; p. 1241.
- Razor-blade holder, Safety-. A. F. Collins and C. C. Craig. No. 1,155,132; Sept. 28; Gaz. vol. 218; p. 1068.
- Razor blades, Holder for stropping safety-. A. Swedberg. No. 1,162,888; Dec. 7; Gaz. vol. 221; p. 53.
- Razor-blades, Making. J. P. Tarbox. No. 1,165,037; Dec. 21; Gaz. vol. 221; p. 890.
- Razor honing and stropping device. F. A. Fuller. No. 1,159,487; Nov. 9; Gaz. vol. 220; p. 408.
- Razor-honing device. H. Boerner. No. 1,133,256; Mar. 30; Gaz. vol. 212; p. 1364.
- Razor-honing machine. G. C. Sherman. No. 1,137,914; May 4; Gaz. vol. 214; p. 67.
- Razor, Rotary safety-. C. B. Collins. No. 1,127,409; Feb. 9; Gaz. vol. 211; p. 300.
- Razor, Safety-. M. F. Brogan. No. 1,145,466; July 6; Gaz. vol. 216; p. 173.
- Razor, Safety-. J. Bruecker. No. 1,159,647; Nov. 9; Gaz. vol. 220; p. 465.
- Razor, Safety-. S. W. Charles. No. 1,151,083; Aug. 24; Gaz. vol. 217; p. 1140.
- Razor, Safety-. E. H. Cooper and S. B. Earle. No. 1,140,664; May 25; Gaz. vol. 214; p. 1143.
- Razor, Safety-. H. Coyne. No. 1,142,310; June 8; Gaz. vol. 215; p. 466.
- Razor, Safety-. J. F. Craven. No. 1,135,362; Apr. 13; Gaz. vol. 213; p. 496.
- Razor, Safety-. W. F. De Konath. No. 1,146,769; July 13; Gaz. vol. 216; p. 647.
- Razor, Safety-. J. B. De Mesquita. No. 1,135,775; Apr. 13; Gaz. vol. 213; p. 641.

Alphabetical list of inventions—Continued.

- Razor, Safety-. J. B. De Mesquita. No. 1,135,776; Apr. 13; Gaz. vol. 213; p. 642.
- Razor, Safety-. C. E. Dunn. No. 1,123,714; Jan. 5; Gaz. vol. 210; p. 176.
- Razor, Safety-. C. H. Frye. No. 1,164,341; Dec. 14; Gaz. vol. 221; p. 607.
- Razor, Safety-. F. A. Fuller. No. 1,145,984; July 13; Gaz. vol. 216; p. 372.
- Razor, Safety-. F. A. Fuller. No. 1,147,229; July 20; Gaz. vol. 216; p. 829.
- Razor, Safety-. H. J. Gaisman. No. 1,139,115; May 11; Gaz. vol. 214; p. 529.
- Razor, Safety-. H. J. Gaisman. No. 1,147,231; July 20; Gaz. vol. 216; p. 830.
- Razor, Safety-. H. J. Gaisman. No. 1,155,347; Oct. 5; Gaz. vol. 219; p. 8.
- Razor, Safety-. H. J. Gaisman. No. 1,158,914; Nov. 2; Gaz. vol. 220; p. 177.
- Razor, Safety-. H. J. Gaisman. No. 1,163,136; Dec. 7; Gaz. vol. 221; p. 140.
- Razor, Safety-. H. J. Gaisman. No. 1,163,137; Dec. 7; Gaz. vol. 221; p. 140.
- Razor, Safety-. G. H. Gillette. No. 1,141,183; June 1; Gaz. vol. 215; p. 33.
- Razor, Safety-. K. C. Gillette. No. 1,158,480; Nov. 2; Gaz. vol. 220; p. 24.
- Razor, Safety-. K. C. Gillette. No. 1,158,481; Nov. 2; Gaz. vol. 220; p. 24.
- Razor, Safety-. P. R. Greist and E. J. Boyler. No. 1,127,433; Feb. 9; Gaz. vol. 211; p. 309.
- Razor, Safety-. W. F. Groschopp. No. 1,146,868; July 20; Gaz. vol. 216; p. 701.
- Razor, Safety-. W. F. Groschopp. No. 1,146,869; July 20; Gaz. vol. 216; p. 702.
- Razor, Safety-. E. A. Guthman. No. 1,146,701; July 13; Gaz. vol. 216; p. 624.
- Razor, Safety-. S. C. Howard. No. 1,125,328; Jan. 19; Gaz. vol. 210; p. 829.
- Razor, Safety-. J. Kaufman. No. 1,161,689; Nov. 23; Gaz. vol. 220; p. 1287.
- Razor, Safety-. J. Molkenhuth. No. 1,146,945; July 20; Gaz. vol. 216; p. 730.
- Razor, Safety-. E. Moran. No. 1,165,528; Dec. 28; Gaz. vol. 221; p. 1100.
- Razor, Safety-. W. J. Myatt. No. 1,139,056; May 11; Gaz. vol. 214; p. 509.
- Razor, Safety-. J. L. and O. G. Nilson. No. 1,159,075; Nov. 2; Gaz. vol. 220; p. 229.
- Razor, Safety-. W. E. O'Reilly. No. 1,157,249; Oct. 19; Gaz. vol. 219; p. 729.
- Razor, Safety-. F. M. Osterberg. No. 1,130,835; Mar. 9; Gaz. vol. 212; p. 380.
- Razor, Safety-. D. M. Perine. No. 1,127,505; Feb. 9; Gaz. vol. 211; p. 336.
- Razor, Safety-. C. W. Petosky. No. 1,135,611; Apr. 13; Gaz. vol. 213; p. 585.
- Razor, Safety-. A. R. Rieger. No. 1,157,044; Oct. 19; Gaz. vol. 219; p. 656.
- Razor, Safety-. W. A. Somers. No. 1,134,706; Apr. 6; Gaz. vol. 213; p. 228.
- Razor, Safety-. M. B. and L. B. Stearns. No. 1,158,741; Nov. 2; Gaz. vol. 220; p. 115.
- Razor, Safety-. W. Turka. No. 1,147,054; July 20; Gaz. vol. 216; p. 768.
- Razor safety-guard. L. W. Farquhar. No. 1,138,649; May 11; Gaz. vol. 214; p. 362.
- Razor, Self-stropping safety-. E. C. Gallup. No. 1,163,521; Dec. 7; Gaz. vol. 221; p. 275.
- Razor-strop and dispenser, Aseptic. G. C. Frye and F. C. Rollins. No. 1,137,599; Apr. 27; Gaz. vol. 213; p. 1367.
- Razor-strop clamping and securing device. E. Hunold. No. 1,126,013; Jan. 26; Gaz. vol. 210; p. 1105.
- Razor-strop holder. J. T. Stutler. No. 1,133,511; Mar. 30; Gaz. vol. 212; p. 1455.
- Razor-stropping device. L. M. Bowman. No. 1,150,658; Aug. 17; Gaz. vol. 217; p. 938.
- Razor-stropping device. R. Marx. No. 1,166,234; Dec. 28; Gaz. vol. 221; p. 1352.
- Razors. Thumb-guard for. W. S. Hyde. No. 1,137,976; May 4; Gaz. vol. 214; p. 89.
- Reactive coil. W. S. Moody. No. 1,132,281; Mar. 16; Gaz. vol. 212; p. 926.
- Reactor. P. Torchio. No. 1,157,066; Oct. 19; Gaz. vol. 219; p. 663.
- Reading and resetting device. E. S. Church. No. 1,138,844; May 11; Gaz. vol. 214; p. 434.
- Reading device. J. F. and J. F. Ancona. No. 1,165,219; Dec. 21; Gaz. vol. 221; p. 956.
- Reading-glass. Pocket. G. W. Wells. No. 1,141,225; June 1; Gaz. vol. 215; p. 48.
- Reamer. S. F. Estell. No. 1,134,322; Apr. 6; Gaz. vol. 213; p. 88.
- Reamer. C. G. Grover. No. 1,163,083; Dec. 7; Gaz. vol. 221; p. 121.
- Reamer. A. E. Harkness. No. 1,146,250; July 13; Gaz. vol. 216; p. 466.
- Reamer. H. R. Hughes. No. 1,136,135; Apr. 20; Gaz. vol. 213; p. 808.
- Reamer attachment for die-stocks. D. Hitchcock. No. 1,156,290; Oct. 12; Gaz. vol. 219; p. 358.
- Reamer, Expanding. A. Coats. No. 1,129,169; Feb. 23; Gaz. vol. 211; p. 1001.
- Reamer, Expanding. V. J. Wahlstrom. No. 1,127,121; Feb. 2; Gaz. vol. 211; p. 162.
- Reamer, Expansion-. W. F. Scheuber. No. 1,152,440; Sept. 7; Gaz. vol. 218; p. 20.
- Reamer, Hand-. E. C. Musser and T. Dilger. No. 1,126,649; Jan. 26; Gaz. vol. 210; p. 1337.
- Reaming and tapping machine. J. R. Saylor. No. 1,129,020; Feb. 16; Gaz. vol. 211; p. 914.
- Reaming-tool. B. C. Meier. No. 1,158,825; Nov. 2; Gaz. vol. 220; p. 147.
- Reapers. Grain-saver attachment for. W. Smith. No. 1,157,435; Oct. 19; Gaz. vol. 219; p. 795.
- Receipt. R. C. Laurier and F. Monette. No. 1,142,332; June 8; Gaz. vol. 215; p. 474.
- Recepting device. G. L. Mather. No. 1,127,792; Feb. 9; Gaz. vol. 211; p. 436.
- Receiver. O. M. Leich. No. 1,156,157; Oct. 12; Gaz. vol. 219; p. 315.
- Receiver, Loud-speaking. H. C. Egerton. No. 1,161,639; Nov. 23; Gaz. vol. 220; p. 1269.
- Receiver-supporting arm. W. R. Armor and L. A. Young. No. 1,162,012; Nov. 30; Gaz. vol. 220; p. 1446.
- Receiving and delivering apparatus. C. D. Watson. No. 1,135,230; Apr. 13; Gaz. vol. 213; p. 450.
- Receptacle. S. H. Blodgett. No. 1,126,364; Jan. 26; Gaz. vol. 210; p. 1233.
- Receptacle. C. Doering, Jr. No. 1,146,408; July 13; Gaz. vol. 216; p. 521.
- Receptacle. B. K. Ford. No. 1,141,534; June 1; Gaz. vol. 215; p. 160.
- Receptacle. W. H. Gamble. No. 1,132,466; Mar. 16; Gaz. vol. 212; p. 992.
- Receptacle. T. B. Goodpasture and T. J. Maxwell. No. 1,145,581; July 6; Gaz. vol. 216; p. 211.
- Receptacle. H. H. Hancock. No. 1,136,421; Apr. 20; Gaz. vol. 213; p. 912.
- Receptacle. W. E. Haskin. No. 1,162,917; Dec. 7; Gaz. vol. 221; p. 63.
- Receptacle. A. C. Heimbuecher. No. 1,138,290; May 4; Gaz. vol. 214; p. 199.
- Receptacle. C. Johnson. No. 1,149,266; Aug. 10; Gaz. vol. 217; p. 380.
- Receptacle. C. Knutson. No. 1,163,017; Dec. 7; Gaz. vol. 221; p. 99.
- Receptacle. W. J. A. Kuehl. No. 1,126,789; Feb. 2; Gaz. vol. 211; p. 45.
- Receptacle. R. C. McConachy. No. 1,158,520; Nov. 2; Gaz. vol. 220; p. 39.
- Receptacle. F. Mossop. No. 1,163,841; Dec. 14; Gaz. vol. 221; p. 434.
- Receptacle. F. C. Odell. No. 1,162,389; Nov. 30; Gaz. vol. 220; p. 1576.
- Receptacle. W. G. Rich. No. 1,164,961; Dec. 21; Gaz. vol. 221; p. 864.
- Receptacle. J. H. Rivers. No. 1,129,017; Feb. 16; Gaz. vol. 211; p. 913.
- Receptacle. J. Rumpel. No. 1,130,932; Mar. 9; Gaz. vol. 212; p. 414.
- Receptacle. A. H. Schmedtje. No. 1,147,192; July 20; Gaz. vol. 216; p. 815.
- Receptacle. C. Scudder. No. 1,147,650; July 20; Gaz. vol. 216; p. 977.
- Receptacle. C. Scudder. No. 1,147,651; July 20; Gaz. vol. 216; p. 978.
- Receptacle. C. Scudder. No. 1,147,652; July 20; Gaz. vol. 216; p. 978.
- Receptacle. J. J. M. Truxell. No. 1,159,552; Nov. 9; Gaz. vol. 220; p. 430.
- Receptacle. E. H. W. Ullrich. No. 1,134,427; Apr. 6; Gaz. vol. 213; p. 125.
- Receptacle. A. O. Vestine. No. 1,138,517; May 4; Gaz. vol. 214; p. 279.
- Receptacle and closure therefor. E. Fowler. No. 1,134,524; Apr. 6; Gaz. vol. 213; p. 161.
- Receptacle and closure therefor. E. C. Leighton. No. 1,149,925; Aug. 10; Gaz. vol. 217; p. 619.
- Receptacle and closure therefor. L. Searing. No. 1,126,097; Jan. 26; Gaz. vol. 210; p. 1137.
- Receptacle, Automatic temperature-controlled. N. Briles. No. 1,142,075; June 8; Gaz. vol. 215; p. 384.
- Receptacle-charging means. E. D. Anderson. No. 1,161,581; Nov. 23; Gaz. vol. 220; p. 1250.
- Receptacle-closure. D. Bloom. No. 1,159,825; Nov. 9; Gaz. vol. 220; p. 530.
- Receptacle-closure. E. A. Claus. No. 1,155,890; Oct. 5; Gaz. vol. 219; p. 197.
- Receptacle-closure. A. C. Elliott. No. 1,159,198; Nov. 2; Gaz. vol. 220; p. 275.
- Receptacle-closure. R. M. Hollingshead. No. 1,150,596; Aug. 17; Gaz. vol. 217; p. 916.
- Receptacle-closure. J. V. Hull. No. 1,134,066; Mar. 30; Gaz. vol. 212; p. 1648.
- Receptacle-closure. J. V. Hull. No. 1,134,068; Mar. 30; Gaz. vol. 212; p. 1649.
- Receptacle-closure. R. Karr. No. 1,124,747; Jan. 12; Gaz. vol. 210; p. 586.
- Receptacle-closure. C. R. Keeran. No. 1,130,611; Mar. 2; Gaz. vol. 212; p. 270.
- Receptacle-closure. V. Nylund. No. 1,129,222; Feb. 23; Gaz. vol. 211; p. 1019.
- Receptacle-closure. A. W. Schoenheit. No. 1,157,591; Oct. 19; Gaz. vol. 219; p. 845.

- Receptacle-closure, Hermetic. W. H. Honiss. No. 1,150,766; Aug. 17; Gaz. vol. 217; p. 974.
- Receptacle-closure, Hermetic. W. A. Lorenz. No. 1,150,780; Aug. 17; Gaz. vol. 217; p. 978.
- Receptacle, Collapsible. J. W. Ellis. No. 1,133,715; Mar. 30; Gaz. vol. 212; p. 1530.
- Receptacle, Collapsible. A. W. Wheaton. No. 1,145,953; July 13; Gaz. vol. 216; p. 361.
- Receptacle-cover. W. J. Rust. No. 1,141,832; June 1; Gaz. vol. 215; p. 260.
- Receptacle-cover. W. J. Vollrath and M. M. Cohen. No. 1,153,586; Sept. 14; Gaz. vol. 218; p. 473.
- Receptacle cover and spout. M. Blume. No. 1,135,758; Apr. 13; Gaz. vol. 213; p. 636.
- Receptacle-cover, Detachable hinged. J. C. Gibbs. No. 1,158,915; Nov. 2; Gaz. vol. 220; p. 177.
- Receptacle, Covered. J. P. Nicodemus and L. E. Beckley. No. 1,137,078; Apr. 27; Gaz. vol. 213; p. 1181.
- Receptacle, Depositing and collection. C. Scott. No. 1,124,817; Jan. 12; Gaz. vol. 210; p. 612.
- Receptacle, Dumping. G. Perrine. (Reissue.) No. 1,396,8; Aug. 24; Gaz. vol. 217; p. 1310.
- Receptacle, Folding. J. M. Garber, G. E. Woods, and H. S. Jacobson. No. 1,128,676; Feb. 16; Gaz. vol. 211; p. 793.
- Receptacle, Folding. F. Lombardi. No. 1,127,046; Feb. 2; Gaz. vol. 211; p. 135.
- Receptacle for carrying lunches and for similar purposes, Collapsible. S. Rosenthal. No. 1,128,521; Feb. 16; Gaz. vol. 211; p. 739.
- Receptacle for garments, clothing, and the like. J. Freid. No. 1,133,018; Mar. 23; Gaz. vol. 212; p. 1244.
- Receptacle-handle, Detachable. C. Beach. No. 1,143,484; June 15; Gaz. vol. 215; p. 917.
- Receptacle-heading machine. F. J. Heybach. No. 1,132,343; Mar. 16; Gaz. vol. 212; p. 948.
- Receptacle, Hermetically-sealed. J. C. Bowers. No. 1,161,445; Nov. 23; Gaz. vol. 220; p. 1203.
- Receptacle, Hermetically-sealed. J. C. Bowers. No. 1,161,446; Nov. 23; Gaz. vol. 220; p. 1203.
- Receptacle, Hermetically-sealed. J. C. Bowers. No. 1,161,447; Nov. 23; Gaz. vol. 220; p. 1204.
- Receptacle-holder. G. A. Brown. No. 1,164,701; Dec. 21; Gaz. vol. 221; p. 773.
- Receptacle-holder. E. Parsons. No. 1,144,055; June 22; Gaz. vol. 215; p. 1139.
- Receptacle, Internally-protected sheet-metal. W. A. Sexton. No. 1,161,164; Nov. 23; Gaz. vol. 220; p. 1101.
- Receptacle, Knockdown. G. V. Williams. No. 1,127,336; Feb. 2; Gaz. vol. 211; p. 234.
- Receptacle, Metallic. F. G. Wacker. No. 1,158,596; Nov. 2; Gaz. vol. 220; p. 66.
- Receptacle-opening device. H. C. Bluthenthal. No. 1,147,206; July 20; Gaz. vol. 216; p. 822.
- Receptacle or containers, Apparatus for making. E. C. Angell. No. 1,160,816; Nov. 16; Gaz. vol. 220; p. 934.
- Receptacle partition member, Merchandise. F. B. Davidson. No. 1,131,773; Mar. 16; Gaz. vol. 212; p. 740.
- Receptacle, Partitioned. A. H. Gibson. No. 1,144,835; June 29; Gaz. vol. 215; p. 1437.
- Receptacle, Pocketed. W. B. Smith. No. 1,134,561; Apr. 6; Gaz. vol. 213; p. 175.
- Receptacle, Roll-top. F. P. McColl. No. 1,159,514; Nov. 9; Gaz. vol. 220; p. 417.
- Receptacle, Self-unloading. K. Barth. No. 1,140,240; May 18; Gaz. vol. 214; p. 959.
- Receptacle, Self-unloading. K. Barth. No. 1,140,563; May 25; Gaz. vol. 214; p. 1109.
- Receptacle, Sheet-metal. C. T. Draper. No. 1,125,011; Jan. 12; Gaz. vol. 210; p. 680.
- Receptacle, Sheet-metal. C. T. Draper. No. 1,134,730; Apr. 6; Gaz. vol. 213; p. 237.
- Receptacle, Sheet-metal. J. Vanstrom. No. 1,133,072; Mar. 23; Gaz. vol. 212; p. 1264.
- Receptacle, Special. J. L. Cabell. No. 1,155,791; Oct. 5; Gaz. vol. 219; p. 163.
- Receptacle support and cover operating and locking means. L. J. Davis. No. 1,131,774; Mar. 16; Gaz. vol. 212; p. 740.
- Receptacle-suspender. K. Lehman and W. B. Johnson. No. 1,146,334; July 13; Gaz. vol. 216; p. 495.
- Receptacle-top. W. G. Kendall. No. 1,135,380; Apr. 13; Gaz. vol. 213; p. 502.
- Receptacle-top. W. G. Kendall. No. 1,154,518; Sept. 21; Gaz. vol. 218; p. 827.
- Receptacle, Tubular. E. E. Nolan. No. 1,130,322; Mar. 2; Gaz. vol. 212; p. 167.
- Receptacle, Windowed. W. M. Stone. No. 1,162,818; Dec. 7; Gaz. vol. 221; p. 31.
- Receptacles, Apparatus for forming hinged sheet-metal. R. C. McConachy. No. 1,149,201; Aug. 10; Gaz. vol. 217; p. 356.
- Receptacles, Article-holding attachment for. H. W. Mass. No. 1,161,237; Nov. 23; Gaz. vol. 220; p. 1129.
- Receptacles from cartons, Making up. J. B. Miller. No. 1,128,710; Feb. 16; Gaz. vol. 211; p. 804.
- Receptacles, Machine for assembling metal. H. F. Richter. No. 1,136,555; Apr. 20; Gaz. vol. 213; p. 958.
- Receptacles, Machine for filling. J. F. Geyer. No. 1,137,128; Apr. 27; Gaz. vol. 213; p. 1200.
- Receptacles, Metallic cap for. L. R. N. Carvalho. No. 1,137,725; Apr. 27; Gaz. vol. 213; p. 1407.
- Receptacles, Process of and apparatus for making. E. A. Claus. No. 1,136,775; Apr. 20; Gaz. vol. 213; p. 1036.
- Receptacles, Producing woven fabric. V. H. Jennings. No. 1,130,170; Mar. 2; Gaz. vol. 212; p. 114.
- Receptacles, Safety-lid for. E. O. Loeber. No. 1,123,331; Jan. 5; Gaz. vol. 210; p. 46.
- Reciprocating cutter. J. Steinman. No. 1,164,669; Dec. 21; Gaz. vol. 221; p. 762.
- Reciprocating-gear mechanism. W. L. Hamilton. No. 1,134,332; Apr. 6; Gaz. vol. 213; p. 91.
- Reciprocating motor. C. W. Ebeling. No. 1,129,964; Mar. 2; Gaz. vol. 212; p. 44.
- Reciprocating-piston engine. H. Pilling. No. 1,153,133; Sept. 7; Gaz. vol. 218; p. 270.
- Reciprocating positioning mechanism. H. W. Eden. No. 1,149,814; Aug. 10; Gaz. vol. 217; p. 578.
- Reclining-chair. J. E. Berry. No. 1,165,489; Dec. 28; Gaz. vol. 221; p. 1087.
- Reclining-chair. G. Fischrupp. No. 1,166,198; Dec. 28; Gaz. vol. 221; p. 1338.
- Reclining-chair. W. T. Giberson and D. R. Anderson. No. 1,160,399; Nov. 16; Gaz. vol. 220; p. 784.
- Reclining-chair. A. M. Richards. No. 1,127,082; Feb. 9; Gaz. vol. 211; p. 394.
- Recoil-pad. J. W. Perkins. No. 1,128,037; Feb. 9; Gaz. vol. 211; p. 522.
- Recoil-register. G. G. Gocke. No. 1,150,756; Aug. 17; Gaz. vol. 217; p. 971.
- Record-disk. A. Ettlinger. No. 1,150,020; Aug. 17; Gaz. vol. 217; p. 714.
- Record filing-case, Disk. T. H. Perfield. No. 1,130,016; Mar. 2; Gaz. vol. 212; p. 62.
- Record-sheet and making the same. E. O. Schweitzer. No. 1,149,295; Aug. 10; Gaz. vol. 217; p. 391.
- Recorder: See—
 Car-recorder. Phonograph-recorder.
 Contour-recorder. Speed-recorder.
 Efficiency-recorder. Synchronizing recorder.
 Electrical recorder. Telephone-recorder.
 Engine-recorder. Telephone-call recorder.
 Graphic recorder. Time-recorder.
 Heat-recorder. Torpedo-depth recorder.
 Hydrostatic recorder. Vehicle time-recorder.
 Machine-efficiency recorder. Water-stage recorder.
- Recorder. H. C. Alger. No. 1,130,954; Mar. 9; Gaz. vol. 212; p. 420.
- Recorder. H. C. Alger. No. 1,131,892; Mar. 16; Gaz. vol. 212; p. 783.
- Recorder. H. T. Goss and J. W. Bryce. No. 1,124,419; Jan. 12; Gaz. vol. 210; p. 468.
- Recorder. F. G. Rose. No. 1,154,438; Sept. 21; Gaz. vol. 218; p. 801.
- Recorders, Cast-off device for. C. W. Svenson. No. 1,130,119; Mar. 2; Gaz. vol. 212; p. 96.
- Recording and computing machine. D. B. Whistler and C. W. Ripsch. No. 1,132,234; Mar. 16; Gaz. vol. 212; p. 908.
- Recording and duplicating machine. F. H. Armstrong. No. 1,147,592; July 20; Gaz. vol. 216; p. 956.
- Recording and indicating apparatus. G. A. Hobart. No. 1,147,323; July 20; Gaz. vol. 216; p. 859.
- Recording apparatus. R. S. Blair. No. 1,130,469; Mar. 2; Gaz. vol. 212; p. 220.
- Recording apparatus. M. Irion and A. E. Mueller. No. 1,141,962; June 8; Gaz. vol. 215; p. 342.
- Recording apparatus, Electrical. A. L. Sohm. No. 1,141,216; June 1; Gaz. vol. 215; p. 45.
- Recording apparatus, Graphic. J. T. Dempster. No. 1,132,508; Mar. 16; Gaz. vol. 212; p. 936.
- Recording device. C. W. Nieman. No. 1,151,120; Aug. 24; Gaz. vol. 217; p. 1153.
- Recording device. W. W. Salmon and F. L. Dodgson. No. 1,162,656; Nov. 30; Gaz. vol. 220; p. 1663.
- Recording device, Manifold. B. Bowler. No. 1,147,137; July 20; Gaz. vol. 216; p. 796.
- Recording instrument. C. R. Moore. No. 1,155,501; Oct. 5; Gaz. vol. 219; p. 63.
- Recording instrument. S. T. Park and J. E. Phillips. No. 1,138,011; May 4; Gaz. vol. 214; p. 100.
- Recording instrument. C. H. Wilson. No. 1,133,597; Mar. 30; Gaz. vol. 212; p. 1486.
- Recording-lock. H. W. Brown. No. 1,127,178; Feb. 2; Gaz. vol. 211; p. 181.
- Recording-machine. W. W. Bradley and A. M. Campbell. No. 1,150,165; Aug. 17; Gaz. vol. 217; p. 766.
- Recording-machine. P. L. Hill. No. 1,124,649; Jan. 12; Gaz. vol. 210; p. 553.
- Recording-machine. H. Landsiedel. No. 1,123,323; Jan. 5; Gaz. vol. 210; p. 43.
- Recording-machine. H. Landsiedel. No. 1,142,787; June 8; Gaz. vol. 215; p. 633.
- Recording-machine. B. R. Webster. No. 1,131,808; Mar. 16; Gaz. vol. 212; p. 754.
- Recording-machine carriage. C. E. W. Gardner. No. 1,154,304; Sept. 21; Gaz. vol. 218; p. 754.
- Recording mechanism. G. W. Freeland. No. 1,152,804; Sept. 7; Gaz. vol. 218; p. 155.
- Recording mechanism. W. Simonsson. No. 1,124,820; Jan. 12; Gaz. vol. 210; p. 613.
- Recording mechanism. C. Sulfer. No. 1,135,555; Apr. 13; Gaz. vol. 213; p. 564.

Alphabetical list of inventions—Continued.

- Recording mechanism, Automatic. H. Y. Norwood and F. W. Stalker. No. 1,129,114; Feb. 23; Gaz. vol. 211; p. 982.
- Recording mechanism, Carriage for. C. E. W. Gardner. No. 1,151,454; Aug. 24; Gaz. vol. 217; p. 1264.
- Recreation device. H. Salsbury. No. 1,127,094; Feb. 2; Gaz. vol. 211; p. 152.
- Rectal generator. J. B. Wagoner. No. 1,149,971; Aug. 10; Gaz. vol. 217; p. 635.
- Rectifier. L. R. Rogers. No. 1,154,058; Sept. 21; Gaz. vol. 218; p. 670.
- Rectifier compound. N. Fallek. No. 1,155,649; Oct. 5; Gaz. vol. 219; p. 113.
- Rectifier system. D. E. Carpenter. No. 1,158,441; Nov. 2; Gaz. vol. 220; p. 10.
- Rectifier system. C. L. Fortescue. No. 1,130,265; Mar. 2; Gaz. vol. 212; p. 147.
- Recuperative furnace. W. O. Houston. No. 1,126,473; Jan. 26; Gaz. vol. 210; p. 1270.
- Reducer. E. S. Harper. No. 1,130,164; Mar. 2; Gaz. vol. 212; p. 112.
- Reduction by means of hydrazin or the like. N. Sulzberger. No. 1,164,141; Dec. 14; Gaz. vol. 221; p. 538.
- Reduction-furnace. H. Pape. No. 1,144,054; June 22; Gaz. vol. 215; p. 1138.
- Reeding-machine. J. Demyen. No. 1,135,673; Apr. 13; Gaz. vol. 213; p. 608.
- Reel. *See—*
- Automatic take-up reel.
 - Bandage-reel.
 - Clothes-reel.
 - Clothes-line reel.
 - Coil-supporting reel.
 - Eyeglass-chain reel.
 - Film-reel.
 - Fish-line reel.
 - Fishing-reel.
 - Harvester-reel.
 - Hose-reel.
 - Lamp-cord reel.
 - Picture-film reel.
 - Picture-machine reel.
 - Self-piling reel.
 - Sewing-machine tape-reel.
 - Strap and line reel.
 - Strip-material reel.
 - Tape-reel.
 - Thread-reel.
 - Wire-reel.
 - Wire-fabric-machine reel.
- Reel. J. D. Adams and A. G. Johnson. No. 1,137,730; May 4; Gaz. vol. 214; p. 4.
- Reel. B. H. and B. H. Gedge, Jr. No. 1,162,472; Nov. 30; Gaz. vol. 220; p. 1605.
- Reel. E. J. Hassett and E. E. Darragh. No. 1,143,904; June 22; Gaz. vol. 215; p. 1085.
- Reel. J. A. Hedges. No. 1,127,243; Feb. 2; Gaz. vol. 211; p. 204.
- Reel. R. Johnston. No. 1,138,483; May 4; Gaz. vol. 214; p. 268.
- Reel. J. R. Waldo. No. 1,147,663; July 20; Gaz. vol. 216; p. 982.
- Reel brake, Paper. A. Terrey. No. 1,157,457; Oct. 19; Gaz. vol. 219; p. 802.
- Reel-carriage and wire-stretcher, Combined. G. Morton. No. 1,135,041; Apr. 13; Gaz. vol. 213; p. 387.
- Reel-carrier and wire-stretcher, Combined. J. D. Boland. No. 1,152,273; Aug. 31; Gaz. vol. 217; p. 1595.
- Reel-guide and strap-holder. P. J. Forbes. No. 1,144,831; June 29; Gaz. vol. 215; p. 1436.
- Reel-holding device. H. W. Schmidt. No. 1,158,566; Nov. 2; Gaz. vol. 220; p. 56.
- Reels, Automatic line-winding attachment for. C. Toepfer. No. 1,154,220; Sept. 21; Gaz. vol. 218; p. 725.
- Reeling and wrapping machine. B. G. Casler. No. 1,144,348; June 29; Gaz. vol. 215; p. 1271.
- Reeling device. C. W. Gillespie. No. 1,141,245; June 1; Gaz. vol. 215; p. 55.
- Reeling machine, Skein. E. J. Lipps. No. 1,154,705; Sept. 28; Gaz. vol. 218; p. 921.
- Refilling-preventing stopper. W. M. Spendlove and K. Foldeak. No. 1,151,626; Aug. 31; Gaz. vol. 217; p. 1373.
- Reference-record. G. Wilson. No. 1,154,225; Sept. 21; Gaz. vol. 218; p. 727.
- Refining-engine. H. J. Meader. No. 1,125,583; Jan. 19; Gaz. vol. 210; p. 918.
- Reflecting-heater. F. O. and J. F. Adams. No. 1,132,822; Mar. 23; Gaz. vol. 212; p. 1173.
- Reflecting system. R. Straubel. No. 1,151,975; Aug. 31; Gaz. vol. 217; p. 1493.
- Reflector. R. D. Gray. No. 1,133,955; Mar. 30; Gaz. vol. 212; p. 1611.
- Reflector. D. J. O'Brien. No. 1,127,082; Feb. 2; Gaz. vol. 211; p. 147.
- Reflector. C. W. White. No. 1,149,237; Aug. 10; Gaz. vol. 217; p. 369.
- Reflector, Electric-light. D. J. Lambert. No. 1,139,542; May 18; Gaz. vol. 214; p. 713.
- Reflector, Non-glare. J. F. Scribner. No. 1,143,650; June 22; Gaz. vol. 215; p. 999.
- Refractory composition board and producing the same. R. A. Plumb and C. R. Weed. No. 1,159,866; Nov. 9; Gaz. vol. 220; p. 545.
- Refractory material and making it. Highly. A. Pfaff. No. 1,159,264; Nov. 2; Gaz. vol. 220; p. 297.
- Refractory material, Manufacturing articles out of highly. P. M. Hulbert. No. 1,155,358; Oct. 5; Gaz. vol. 219; p. 12.
- Refrigerating and ice-manufacturing means. A. O. Girard. No. 1,132,176; Mar. 10; Gaz. vol. 212; p. 886.
- Refrigerating apparatus. M. Audiffren and H. A. Singrün. No. 1,155,780; Oct. 5; Gaz. vol. 219; p. 158.
- Refrigerating apparatus. C. J. Coleman. No. 1,152,708; Sept. 7; Gaz. vol. 218; p. 121.
- Refrigerating apparatus. J. C. Corbin. No. 1,144,642; June 29; Gaz. vol. 215; p. 1369.
- Refrigerating apparatus. C. M. Gay. No. 1,156,525; Oct. 12; Gaz. vol. 219; p. 443.
- Refrigerating apparatus. C. H. Hapgood. No. 1,131,130; Mar. 9; Gaz. vol. 212; p. 481.
- Refrigerating apparatus. H. M. and W. C. Illester. No. 1,134,269; Apr. 6; Gaz. vol. 213; p. 68.
- Refrigerating apparatus. L. Horst. No. 1,161,937; Nov. 30; Gaz. vol. 220; p. 1420.
- Refrigerating apparatus. E. C. Loetscher. No. 1,151,202; Aug. 24; Gaz. vol. 217; p. 1182.
- Refrigerating apparatus. W. B. McBurney, H. T. Barksdale, and J. B. Howe. No. 1,133,163; Mar. 23; Gaz. vol. 212; p. 1296.
- Refrigerating apparatus. B. A. Michel. No. 1,155,363; Oct. 5; Gaz. vol. 219; p. 13.
- Refrigerating apparatus. C. E. Molesworth. No. 1,128,482; Feb. 16; Gaz. vol. 211; p. 726.
- Refrigerating apparatus. E. W. Neuman. No. 1,140,183; May 18; Gaz. vol. 214; p. 941.
- Refrigerating apparatus. W. M. Pruett. No. 1,131,004; Mar. 9; Gaz. vol. 212; p. 438.
- Refrigerating apparatus. E. Ruud. No. 1,153,712; Sept. 14; Gaz. vol. 218; p. 516.
- Refrigerating apparatus. H. H. Southworth. No. 1,162,313; Nov. 30; Gaz. vol. 220; p. 1551.
- Refrigerating apparatus. H. H. Southworth. No. 1,162,316; Nov. 30; Gaz. vol. 220; p. 1552.
- Refrigerating apparatus. H. H. Southworth and F. W. Wolf. No. 1,139,460; May 11; Gaz. vol. 214; p. 649.
- Refrigerating apparatus. E. T. Williams. No. 1,165,926; Dec. 28; Gaz. vol. 221; p. 1238.
- Refrigerating apparatus. J. F. Winkler. No. 1,164,438; Dec. 14; Gaz. vol. 221; p. 641.
- Refrigerating apparatus. F. W. Wolf. No. 1,126,605; Jan. 26; Gaz. vol. 210; p. 1321.
- Refrigerating apparatus, Absorption. C. C. Norton. No. 1,151,035; Aug. 24; Gaz. vol. 217; p. 1125.
- Refrigerating apparatus controlling device. G. A. Gase. No. 1,162,348; Nov. 30; Gaz. vol. 220; p. 1563.
- Refrigerating apparatus controlling device. H. H. Southworth. No. 1,162,318; Nov. 30; Gaz. vol. 220; p. 1553.
- Refrigerating apparatus, Controlling device for. G. J. Sayer. No. 1,148,464; July 27; Gaz. vol. 216; p. 1289.
- Refrigerating-apparatus pressure-reducing device. H. H. Southworth. No. 1,162,319; Nov. 30; Gaz. vol. 220; p. 1554.
- Refrigerating apparatus, Rectifier for. C. E. Molesworth. No. 1,128,483; Feb. 16; Gaz. vol. 211; p. 726.
- Refrigerating apparatus, Rotary. J. C. Bertsch. No. 1,145,226; July 6; Gaz. vol. 216; p. 88.
- Refrigerating apparatus, Rotary. J. H. Stone. No. 1,131,169; Mar. 9; Gaz. vol. 212; p. 494.
- Refrigerating-car. J. G. Richert. No. 1,137,285; Apr. 27; Gaz. vol. 213; p. 1258.
- Refrigerating fish, &c. N. Dahl. No. 1,123,701; Jan. 5; Gaz. vol. 210; p. 171.
- Refrigerating-machine. E. T. Williams. No. 1,164,689; Dec. 21; Gaz. vol. 221; p. 769.
- Refrigerating-machine, Rotary. J. J. Wood. No. 1,164,245; Dec. 14; Gaz. vol. 221; p. 572.
- Refrigerating-machines, Automatic regulator for. W. F. Krieger. No. 1,135,196; Apr. 13; Gaz. vol. 213; p. 436.
- Refrigerating or ice-making apparatus. T. Shipley. No. 1,158,321; Oct. 26; Gaz. vol. 219; p. 1166.
- Refrigerating plants, Appliances for artificial. S. Thurstensen. No. 1,149,871; Aug. 10; Gaz. vol. 217; p. 598.
- Refrigerating system. G. J. Sayer. No. 1,148,465; July 27; Gaz. vol. 216; p. 1290.
- Refrigeration. G. A. Gase. No. 1,162,346; Nov. 30; Gaz. vol. 220; p. 1562.
- Refrigeration. H. H. Southworth and C. G. Armstrong. No. 1,165,633; Dec. 28; Gaz. vol. 221; p. 1138.
- Refrigeration system, Absorption. J. R. Howe. No. 1,161,678; Nov. 23; Gaz. vol. 220; p. 1283.
- Refrigerator. A. B. Benson. No. 1,159,564; Nov. 9; Gaz. vol. 220; p. 435.
- Refrigerator. T. P. Bolger. No. 1,123,984; Jan. 5; Gaz. vol. 210; p. 266.
- Refrigerator. G. E. Cox. No. 1,143,362; June 15; Gaz. vol. 215; p. 875.
- Refrigerator. F. V. Detwiler. No. 1,123,499; Jan. 5; Gaz. vol. 210; p. 103.
- Refrigerator. A. Fink. No. 1,138,947; May 11; Gaz. vol. 214; p. 468.
- Refrigerator. A. M. Kjaersgaard. No. 1,129,991; Mar. 2; Gaz. vol. 212; p. 54.
- Refrigerator. R. H. Krall. No. 1,148,784; Aug. 3; Gaz. vol. 217; p. 109.
- Refrigerator. H. Latham. No. 1,165,185; Dec. 21; Gaz. vol. 221; p. 943.
- Refrigerator. H. H. Piper. No. 1,128,503; Feb. 16; Gaz. vol. 211; p. 733.
- Refrigerator. M. M. Schultz. No. 1,147,754; July 27; Gaz. vol. 216; p. 1039.

- Refrigerator. C. G. Simon. No. 1,156,252; Oct. 12; Gaz. vol. 219; p. 346.
- Refrigerator. L. H. Vogel and J. Burrows. No. 1,143,243; June 15; Gaz. vol. 215; p. 835.
- Refrigerator. F. M. Woodward. No. 1,151,321; Aug. 24; Gaz. vol. 217; p. 1221.
- Refrigerator-box. S. M. Rinehart. No. 1,150,884; Aug. 24; Gaz. vol. 217; p. 1073.
- Refrigerator. Butter-dish. M. Elzas. No. 1,150,583; Aug. 17; Gaz. vol. 217; p. 912.
- Refrigerator-car. P. Porges. No. 1,164,392; Dec. 14; Gaz. vol. 221; p. 625.
- Refrigerator-car. M. P. Reynolds. No. 1,153,705; Sept. 14; Gaz. vol. 218; p. 513.
- Refrigerator-car. M. P. Reynolds. No. 1,154,436; Sept. 21; Gaz. vol. 218; p. 800.
- Refrigerator-car-door-locking mechanism. G. Q. Lewis. No. 1,140,517; May 25; Gaz. vol. 214; p. 1093.
- Refrigerator-car drain, Automatic. E. A. Nix and E. C. Roddie. No. 1,149,675; Aug. 10; Gaz. vol. 217; p. 530.
- Refrigerator-car door. G. H. Ellis. No. 1,137,197; Apr. 27; Gaz. vol. 213; p. 1224.
- Refrigerator-cars and the like, Non-corrosive compound for. J. A. De Cew. No. 1,141,446; June 1; Gaz. vol. 215; p. 120.
- Refrigerator-cars, Pneumatic door for. S. A. Miller. No. 1,150,531; Aug. 17; Gaz. vol. 217; p. 892.
- Refrigerator-compartments, Shelf-support for one-piece. O. E. Foerster and C. H. Seaman. No. 1,127,983; Feb. 9; Gaz. vol. 211; p. 504.
- Refrigerator-door closing and locking means. J. F. O'Connor. No. 1,152,042; Aug. 31; Gaz. vol. 217; p. 1516.
- Refrigerator-door packing. G. A. Johnson. No. 1,139,038; May 11; Gaz. vol. 214; p. 503.
- Refrigerator-door packing. G. A. Johnson. No. 1,143,049; June 15; Gaz. vol. 215; p. 764.
- Refrigerator drain-pan or the like. R. Tate, Jr. No. 1,154,141; Sept. 21; Gaz. vol. 218; p. 698.
- Refrigerator drip-pans, Fluid-indicator for. P. L. Villamin. No. 1,152,243; Aug. 31; Gaz. vol. 217; p. 1585.
- Refrigerator-lining. E. Richardson. No. 1,160,530; Nov. 16; Gaz. vol. 220; p. 830.
- Refrigerator-lining. W. H. Whittier. No. 1,147,288; July 20; Gaz. vol. 216; p. 848.
- Refrigerator-linings, &c., Composition for. C. H. Seaman. No. 1,144,615; June 29; Gaz. vol. 215; p. 1360.
- Refrigerator, Portable. R. Jackson, Jr. No. 1,137,324; Apr. 27; Gaz. vol. 213; p. 1273.
- Refrigerator, Window. W. M. Kingsbury. No. 1,143,205; June 15; Gaz. vol. 215; p. 821.
- Refuse and garbage receptacle. J. Berg. No. 1,160,566; Nov. 16; Gaz. vol. 220; p. 843.
- Refuse-burner. E. E. Fitzgerald. No. 1,139,658; May 18; Gaz. vol. 214; p. 755.
- Refuse-collector. C. D. Eaton. No. 1,147,151; July 20; Gaz. vol. 216; p. 801.
- Refuse-destructor. H. N. Leask. No. 1,149,071; Aug. 3; Gaz. vol. 217; p. 207.
- Refuse-destructor or other furnace. J. H. Thwaites and J. T. Craven. No. 1,135,961; Apr. 13; Gaz. vol. 213; p. 707.
- Refuse organic matter, Apparatus for the production of valuable. T. Craney. No. 1,140,502; May 25; Gaz. vol. 214; p. 1088.
- Refuse-receptacle, Pocket. J. F. Sykora. No. 1,133,414; Mar. 30; Gaz. vol. 212; p. 1421.
- Refuse-receptacles, Storage-casing for. M. E. Quant. No. 1,162,878; Dec. 7; Gaz. vol. 221; p. 50.
- Refuse sorting and feeding device. W. S. Parsons. No. 1,138,245; May 4; Gaz. vol. 214; p. 182.
- Regenerator. G. L. Danforth, Jr. No. 1,140,125; May 18; Gaz. vol. 214; p. 921.
- Regenerator. J. C. Davis. No. 1,124,870; Jan. 12; Gaz. vol. 210; p. 631.
- Register: See—
- | | |
|---------------------------------------|-------------------------------------|
| Account-register. | Liquid-level register. |
| Accounting-register. | Message-register. |
| Autographic register. | Multiple register. |
| Automobile liquid-fuel-tank register. | Passenger-exit register. |
| Caliper-register. | Pool or billiard table register. |
| Cash-register. | Recoil-register. |
| Cash and autographic register. | Tank-register. |
| | Telephone-call register. |
| Cash and credit register. | Time-register. |
| Coin-register. | Toy cash-register. |
| Credit-register. | Undertow-warner indicator-register. |
| Dairy-register. | Well-drilling register. |
| Elevator-service register. | Work-register. |
| Fare-register. | |
| Impact-register. | |
- Register. J. H. Bailey. No. 1,142,792; June 15; Gaz. vol. 215; p. 674.
- Register. J. H. Bailey. No. 1,143,800; June 22; Gaz. vol. 215; p. 1049.
- Register. H. E. Batterman. No. 1,143,802; June 22; Gaz. vol. 215; p. 1050.
- Register. J. Bozic. No. 1,141,309; June 1; Gaz. vol. 215; p. 79.
- Register. C. Hansgen. No. 1,144,412; June 29; Gaz. vol. 215; p. 1292.
- Register. H. S. Hart. No. 1,166,412; Dec. 28; Gaz. vol. 221; p. 1415.
- Register. C. S. Hood. No. 1,151,359; Aug. 24; Gaz. vol. 217; p. 1233.
- Register. F. W. Naumann. No. 1,164,663; Dec. 21; Gaz. vol. 221; p. 760.
- Register. J. M. Triggs. No. 1,152,864; Sept. 7; Gaz. vol. 218; p. 178.
- Register-actuating mechanism. W. J. Crompton. No. 1,157,620; Oct. 19; Gaz. vol. 219; p. 854.
- Register-bands, Perforating apparatus for making. E. Ehrhardt. No. 1,138,945; May 11; Gaz. vol. 214; p. 467.
- Register-bands, Producing justification symbols in. E. M. v. Marchthal. No. 1,159,694; Nov. 9; Gaz. vol. 220; p. 481.
- Register-concealing mechanism. E. M. Bates and F. Phillips. No. 1,135,149; Apr. 13; Gaz. vol. 213; p. 425.
- Register-frames to stack-heads, Means for securing. A. G. Scherer. No. 1,141,493; June 1; Gaz. vol. 215; p. 145.
- Register-gages and grippers for job-presses. C. Ferro. No. 1,154,694; Sept. 28; Gaz. vol. 218; p. 918.
- Register mechanism. E. E. Patten. No. 1,125,389; Jan. 19; Gaz. vol. 210; p. 853.
- Register mechanism. A. H. Woodward. No. 1,130,951; Mar. 9; Gaz. vol. 212; p. 420.
- Register-shield. H. W. Neal. No. 1,152,539; Sept. 7; Gaz. vol. 218; p. 59.
- Register-slat operator. W. T. Truax. No. 1,163,383; Dec. 7; Gaz. vol. 221; p. 227.
- Registers, Manifolding device for autographic. F. C. Nickol and M. C. Stern. No. 1,133,816; Mar. 30; Gaz. vol. 212; p. 1566.
- Registers, Setting-frame for side-wall. B. H. Quick. No. 1,162,398; Nov. 30; Gaz. vol. 220; p. 1579.
- Registering apparatus, Key-controlled. A. F. Dixon. No. 1,125,273; Jan. 19; Gaz. vol. 210; p. 810.
- Registering letterpress matter and making printing-plates therefrom. A. L. Saltzman. No. 1,124,531; Jan. 12; Gaz. vol. 210; p. 508.
- Registering-machine. C. Sulfer. No. 1,135,552; Apr. 13; Gaz. vol. 213; p. 563.
- Registering mechanism. F. K. Fassett. No. 1,132,711; Mar. 23; Gaz. vol. 212; p. 1129.
- Registering mechanism. E. H. Guyer. No. 1,160,281; Nov. 16; Gaz. vol. 220; p. 743.
- Registering mechanism. M. Irion and A. E. Mueller. No. 1,148,516; Aug. 3; Gaz. vol. 217; p. 11.
- Registering or counting device. T. F. Mulligan. No. 1,127,491; Feb. 9; Gaz. vol. 211; p. 332.
- Regulating device. A. Boury. No. 1,133,000; Mar. 23; Gaz. vol. 212; p. 1237.
- Regulating system. R. W. Armstrong. No. 1,163,306; Dec. 7; Gaz. vol. 221; p. 200.
- Regulating system. J. Bijur. No. 1,140,106; May 18; Gaz. vol. 214; p. 914.
- Regulation mechanism. F. H. Brown. No. 1,150,097; Aug. 17; Gaz. vol. 217; p. 741.
- Regulator: See—
- | | |
|-------------------------------|---------------------------------|
| Automatic regulator. | Heater-regulator. |
| Battery-regulator. | Hot-water-system regulator. |
| Boiler feed-water regulator. | Incubator heat-regulator. |
| Clock-regulator. | Lamp-regulator. |
| Controller-regulator. | Laundry-roll regulator. |
| Damper-regulator. | Light or heat regulator. |
| Draft-regulator. | Load-regulator. |
| Electric regulator. | Locomotive draft-regulator. |
| Electric-circuit regulator. | Melting-pot regulator. |
| Electrical regulator. | Motor-regulator. |
| Electrical-circuit regulator. | Orchard-heater draft-regulator. |
| Electromagnetic regulator. | Paper-thickness regulator. |
| Electroresponsive regulator. | Potential-regulator. |
| End-cell regulator. | Power-factor regulator. |
| Engine-regulator. | Pressure-regulator. |
| Feed-regulator. | Radiation-regulator. |
| Feed-pressure regulator. | Selenium-cell regulator. |
| Feed-water regulator. | Speed-regulator. |
| Feed-water-heater regulator. | Spinning-machine regulator. |
| Fluid-compressor regulator. | Temperature-regulator. |
| Fluid-pressure regulator. | Tonnage-regulator. |
| Furnace-regulator. | Valve-regulator. |
| Gas-regulator. | Vehicle speed-regulator. |
| Gas-pressure regulator. | Voltage-regulator. |
| Grinding-mill feed-regulator. | Windmill-regulator. |
| Heat-regulator. | Window-regulator. |
- Regulator. R. Conrader. No. 1,156,392; Oct. 12; Gaz. vol. 219; p. 397.
- Regulator. H. A. Laycock. No. 1,166,229; Dec. 28; Gaz. vol. 221; p. 1350.
- Regulator. J. A. Paasche. No. 1,163,361; Dec. 7; Gaz. vol. 221; p. 220.
- Regulator. G. R. Radley. No. 1,154,725; Sept. 28; Gaz. vol. 218; p. 927.
- Rein-controlled device. C. E. Sargent. No. 1,162,728; Nov. 30; Gaz. vol. 220; p. 1689.

Alphabetical list of inventions—Continued.

- Rein-guard, D. Anderson. No. 1,136,920; Apr. 27; Gaz. vol. 213; p. 1124.
- Rein-guard, E. B. Niemann. No. 1,148,530; Aug. 3; Gaz. vol. 217; p. 16.
- Rein-supporter, O. B. Read. No. 1,141,488; June 1; Gaz. vol. 215; p. 144.
- Reinforced handle, E. C. Holton. No. 1,132,093; Mar. 16; Gaz. vol. 212; p. 855.
- Reinforcement for the composition covering of structural members, D. H. Hayden. No. 1,156,030; Oct. 5; Gaz. vol. 219; p. 245.
- Reinforcing-bar, Deformed, W. A. Collings. No. 1,152,606; Sept. 7; Gaz. vol. 218; p. 83.
- Reinforcing-bars, Making, E. E. Slick. No. 1,154,664; Sept. 28; Gaz. vol. 218; p. 908.
- Reinforcing-bars, Supporting and spacing means for, D. A. Wedmore. No. 1,153,279; Sept. 14; Gaz. vol. 218; p. 360.
- Reinforcing-clip, H. I. Steffa. No. 1,140,204; May 18; Gaz. vol. 214; p. 947.
- Reinforcing-rod clip, A. Henderson. No. 1,149,648; Aug. 10; Gaz. vol. 217; p. 520.
- Reinforcing-rods, Tool for tying, H. S. and E. Ray. No. 1,159,271; Nov. 2; Gaz. vol. 220; p. 299.
- Reinforcing-strip above the perforated edge of a strip, Feeding and moistening device for securing a, H. Gall. No. 1,147,715; July 27; Gaz. vol. 216; p. 1025.
- Relasting-machine, O. Ashton. No. 1,150,804; Aug. 17; Gaz. vol. 217; p. 987.
- Relay, H. R. Allensworth. No. 1,130,654; Mar. 2; Gaz. vol. 212; p. 284.
- Relay, H. W. Cheney. No. 1,149,496; Aug. 10; Gaz. vol. 217; p. 461.
- Relay, A. V. T. Day. No. 1,163,070; Dec. 7; Gaz. vol. 221; p. 117.
- Relay, L. A. Hawkins. No. 1,152,088; Aug. 31; Gaz. vol. 217; p. 1532.
- Relay, A. E. Keith. No. 1,151,796; Aug. 31; Gaz. vol. 217; p. 1431.
- Relay, C. A. Simpson. No. 1,141,982; June 8; Gaz. vol. 215; p. 350.
- Relay, N. H. Suren. No. 1,145,940; July 13; Gaz. vol. 216; p. 356.
- Relay, N. H. Suren. No. 1,145,942; July 13; Gaz. vol. 216; p. 357.
- Relay, S. E. Witt. No. 1,144,745; June 29; Gaz. vol. 215; p. 1406.
- Relay and operating same, C. Kinsley. No. 1,126,483; Jan. 26; Gaz. vol. 210; p. 1274.
- Relay and repeater, W. Finn. No. 1,164,273; Dec. 14; Gaz. vol. 221; p. 582.
- Relay device, G. Babcock. No. 1,133,787; Mar. 30; Gaz. vol. 212; p. 1555.
- Relay, Electrical, S. G. Brown. No. 1,128,944; Feb. 16; Gaz. vol. 211; p. 888.
- Relay, Electrical, A. W. Copley. No. 1,135,438; Apr. 13; Gaz. vol. 213; p. 523.
- Relay, Electrical, A. F. Sykes. No. 1,150,316; Aug. 17; Gaz. vol. 217; p. 819.
- Relay, Electromagnetic, E. B. Craft. No. 1,156,671; Oct. 12; Gaz. vol. 219; p. 495.
- Relay for signal systems, Track-, G. B. Gray. No. 1,138,748; May 11; Gaz. vol. 214; p. 398.
- Relay, Indicating-, W. Kaisling. No. 1,141,119; June 1; Gaz. vol. 215; p. 10.
- Relay, Multicontact, H. G. Webster. No. 1,133,449; Mar. 30; Gaz. vol. 212; p. 1432.
- Relay, Multiple-contact, G. Babcock. No. 1,133,786; Mar. 30; Gaz. vol. 212; p. 1554.
- Relay or repeater, Electric, T. A. Nathans. No. 1,151,707; Aug. 31; Gaz. vol. 217; p. 1399.
- Relay, Overhead and reverse-current, F. Conrad. No. 1,137,840; May 4; Gaz. vol. 214; p. 41.
- Relay, Polarized, G. B. Gray. No. 1,140,739; May 25; Gaz. vol. 214; p. 1167.
- Relay, Time-limit, G. A. Burnham. No. 1,140,249; May 18; Gaz. vol. 214; p. 962.
- Relays or the like, Mounting for, E. A. Reinke. No. 1,151,497; Aug. 24; Gaz. vol. 217; p. 1281.
- Release-rigging, W. P. Murphy. No. 1,132,024; Mar. 16; Gaz. vol. 212; p. 831.
- Releasing device, E. B. Crocker. No. 1,130,803; Mar. 9; Gaz. vol. 212; p. 370.
- Releasing-hook, B. F. Nedrow. No. 1,124,790; Jan. 12; Gaz. vol. 210; p. 602.
- Relief mechanism, A. Prau. No. 1,136,609; Apr. 20; Gaz. vol. 213; p. 978.
- Remote-control switch, W. S. Mayer. No. 1,146,340; July 13; Gaz. vol. 216; p. 497.
- Renovating-tool, J. H. Templin. No. 1,149,475; Aug. 10; Gaz. vol. 217; p. 454.
- Repeater, C. D. Lanning. No. 1,154,574; Sept. 21; Gaz. vol. 218; p. 847.
- Replacing mechanism, Automatic, R. C. Penfield. No. 1,129,006; Feb. 16; Gaz. vol. 211; p. 909.
- Reporting and billing device, H. P. Wellman. No. 1,151,075; Aug. 24; Gaz. vol. 217; p. 1138.
- Reproducing an object, Apparatus for plastically, W. Selke. No. 1,142,733; June 8; Gaz. vol. 215; p. 611.
- Reproducing objects, Apparatus for plastically, W. Selke. No. 1,155,010; Sept. 28; Gaz. vol. 218; p. 1024.
- Reproducing objects, Plastically, W. Selke. No. 1,155,011; Sept. 28; Gaz. vol. 218; p. 1024.
- Reptile catching device, C. P. Holman. No. 1,148,587; Aug. 3; Gaz. vol. 217; p. 37.
- Rerailer, N. K. Bowman. No. 1,152,784; Sept. 7; Gaz. vol. 218; p. 147.
- Rerailer, E. Smyth. No. 1,154,273; Sept. 21; Gaz. vol. 218; p. 744.
- Resawing-machine and the like, J. A. Larsson and K. E. R. Österberg. No. 1,142,972; June 15; Gaz. vol. 215; p. 737.
- Reservation-indicator, A. Hamilton. No. 1,165,247; Dec. 21; Gaz. vol. 221; p. 965.
- Reservoir, G. F. Hodgkinson. No. 1,155,490; Oct. 5; Gaz. vol. 219; p. 59.
- Reservoir and its construction, J. Lowe, Sr. No. 1,159,055; Nov. 2; Gaz. vol. 220; p. 223.
- Reservoir and tank, W. Mueser. No. 1,138,394; May 4; Gaz. vol. 214; p. 238.
- Resilient body, W. Hoskins. No. 1,155,575; Oct. 5; Gaz. vol. 219; p. 87.
- Resilient clip and article-holder, Combination, C. W. Meguiar. No. 1,154,528; Sept. 21; Gaz. vol. 218; p. 830.
- Resilient-hub wheel, D. Silvestri. No. 1,140,622; May 25; Gaz. vol. 214; p. 1130.
- Resilient or cushion wheel, J. M. Goldberg. No. 1,129,480; Feb. 23; Gaz. vol. 211; p. 1111.
- Resilient wheel, O. E. Adamson. No. 1,155,332; Oct. 5; Gaz. vol. 219; p. 3.
- Resilient wheel, J. G. Arcaro. No. 1,147,591; July 20; Gaz. vol. 216; p. 955.
- Resilient wheel, G. R. Bair. No. 1,137,375; Apr. 27; Gaz. vol. 213; p. 1291.
- Resilient wheel, L. Booth. No. 1,123,671; Jan. 5; Gaz. vol. 210; p. 162.
- Resilient wheel, C. D. Brundage. No. 1,158,977; Nov. 2; Gaz. vol. 220; p. 197.
- Resilient wheel, R. H. Burgess. No. 1,131,468; Mar. 9; Gaz. vol. 212; p. 598.
- Resilient wheel, H. I. Chew and W. S. Sergeant. No. 1,149,425; Aug. 10; Gaz. vol. 217; p. 438.
- Resilient wheel, H. Clifford. No. 1,139,639; May 18; Gaz. vol. 214; p. 747.
- Resilient wheel, B. J. Cobb. No. 1,146,237; July 13; Gaz. vol. 216; p. 462.
- Resilient wheel, P. Cykajla. No. 1,164,944; Dec. 21; Gaz. vol. 221; p. 876.
- Resilient wheel, J. B. Davis. No. 1,135,994; Apr. 20; Gaz. vol. 213; p. 760.
- Resilient wheel, T. C. Dobbins. No. 1,147,619; July 20; Gaz. vol. 216; p. 965.
- Resilient wheel, T. C. Dobbins. No. 1,147,621; July 20; Gaz. vol. 216; p. 966.
- Resilient wheel, W. F. Doll. No. 1,136,867; Apr. 20; Gaz. vol. 213; p. 1068.
- Resilient wheel, W. F. Doll. No. 1,136,868; Apr. 20; Gaz. vol. 213; p. 1069.
- Resilient wheel, W. F. Doll. No. 1,136,869; Apr. 20; Gaz. vol. 213; p. 1069.
- Resilient wheel, J. R. Drahonovsky. No. 1,154,912; Sept. 28; Gaz. vol. 218; p. 990.
- Resilient wheel, B. J. Dryer. No. 1,142,504; June 8; Gaz. vol. 215; p. 537.
- Resilient wheel, M. P. Dysart. No. 1,129,654; Feb. 23; Gaz. vol. 211; p. 1170.
- Resilient wheel, J. R. Ellis. No. 1,157,855; Oct. 26; Gaz. vol. 219; p. 1002.
- Resilient wheel, W. E. Endicott. No. 1,158,795; Nov. 2; Gaz. vol. 220; p. 136.
- Resilient wheel, J. L. Firm. No. 1,143,180; June 15; Gaz. vol. 215; p. 811.
- Resilient wheel, A. Granger. No. 1,133,130; Mar. 23; Gaz. vol. 212; p. 1284.
- Resilient wheel, W. B. Gray. No. 1,133,467; Mar. 30; Gaz. vol. 212; p. 1438.
- Resilient wheel, W. B. Gray. No. 1,133,468; Mar. 30; Gaz. vol. 212; p. 1439.
- Resilient wheel, W. B. Gray. No. 1,139,673; May 18; Gaz. vol. 214; p. 761.
- Resilient wheel, L. H. Gulbrandson. No. 1,135,278; Apr. 13; Gaz. vol. 213; p. 467.
- Resilient wheel, A. F. Hawksley. No. 1,159,218; Nov. 2; Gaz. vol. 220; p. 282.
- Resilient wheel, J. J. Hesse. No. 1,134,199; Apr. 6; Gaz. vol. 213; p. 42.
- Resilient wheel, W. A. Ingalls. No. 1,144,546; June 29; Gaz. vol. 215; p. 1387.
- Resilient wheel, W. Ireland. No. 1,151,467; Aug. 24; Gaz. vol. 217; p. 1269.
- Resilient wheel, A. Jutila. No. 1,155,246; Sept. 28; Gaz. vol. 218; p. 1105.
- Resilient wheel, W. S. Kendall. No. 1,158,809; Nov. 2; Gaz. vol. 220; p. 141.
- Resilient wheel, M. F. Kettler. No. 1,140,686; May 25; Gaz. vol. 214; p. 1150.
- Resilient wheel, N. King, Sr. No. 1,137,063; Apr. 27; Gaz. vol. 213; p. 1177.
- Resilient wheel, A. Kirby. No. 1,153,119; Sept. 7; Gaz. vol. 218; p. 266.

- Resilient wheel. W. W. Krutsch. No. 1,162,078; Nov. 30; Gaz. vol. 220; p. 1469.
- Resilient wheel. H. Kupperlan. No. 1,159,961; Nov. 9; Gaz. vol. 220; p. 580.
- Resilient wheel. S. H. Lanyon. No. 1,164,824; Dec. 21; Gaz. vol. 221; p. 816.
- Resilient wheel. G. N. Larkin. No. 1,158,694; Nov. 2; Gaz. vol. 220; p. 99.
- Resilient wheel. H. Lauridsen. No. 1,137,988; May 4; Gaz. vol. 214; p. 93.
- Resilient wheel. G. J. Lee. No. 1,152,648; Sept. 7; Gaz. vol. 218; p. 99.
- Resilient wheel. B. Marley, W. P. Thacker, and R. P. Barnard. No. 1,137,509; Apr. 27; Gaz. vol. 213; p. 1337.
- Resilient wheel. C. McKinnon and W. C. Brouff. No. 1,131,534; Mar. 9; Gaz. vol. 212; p. 620.
- Resilient wheel. W. Morris. No. 1,159,786; Nov. 9; Gaz. vol. 220; p. 516.
- Resilient wheel. J. F. Nettle. No. 1,136,704; Apr. 20; Gaz. vol. 213; p. 1012.
- Resilient wheel. J. F. Nettle. No. 1,158,263; Oct. 26; Gaz. vol. 219; p. 1145.
- Resilient wheel. J. F. Nettle. No. 1,163,443; Dec. 7; Gaz. vol. 221; p. 248.
- Resilient wheel. D. H. Padden. No. 1,152,966; Sept. 7; Gaz. vol. 218; p. 216.
- Resilient wheel. E. A. Palmer. No. 1,133,882; Mar. 30; Gaz. vol. 212; p. 1589.
- Resilient wheel. G. P. Pappadakes. No. 1,142,907; June 15; Gaz. vol. 215; p. 714.
- Resilient wheel. R. T. Park. No. 1,139,065; May 11; Gaz. vol. 214; p. 512.
- Resilient wheel. C. Pirtle. No. 1,130,762; Mar. 9; Gaz. vol. 212; p. 355.
- Resilient wheel. J. and C. Reuse. No. 1,145,034; July 6; Gaz. vol. 216; p. 21.
- Resilient wheel. J. Rigney. No. 1,165,824; Dec. 28; Gaz. vol. 221; p. 1204.
- Resilient wheel. J. Schipfer. No. 1,163,562; Dec. 7; Gaz. vol. 221; p. 289.
- Resilient wheel. W. Seidel. No. 1,166,155; Dec. 28; Gaz. vol. 221; p. 1323.
- Resilient wheel. J. J. Severin. No. 1,133,323; Mar. 30; Gaz. vol. 212; p. 1387.
- Resilient wheel. R. B. Shook. No. 1,146,289; July 13; Gaz. vol. 216; p. 479.
- Resilient wheel. J. F. and H. E. Sipe. No. 1,132,492; Mar. 16; Gaz. vol. 212; p. 1002.
- Resilient wheel. T. J. Smulski. No. 1,141,498; June 1; Gaz. vol. 215; p. 147.
- Resilient wheel. J. H. Spangler. No. 1,144,073; June 22; Gaz. vol. 215; p. 1145.
- Resilient wheel. J. A. Stable. No. 1,126,115; Jan. 26; Gaz. vol. 210; p. 1142.
- Resilient wheel. J. A. Stable. No. 1,165,726; Dec. 28; Gaz. vol. 221; p. 1171.
- Resilient wheel. J. A. and C. W. Stable. No. 1,124,349; Jan. 12; Gaz. vol. 210; p. 444.
- Resilient wheel. J. A. and C. W. Stable. No. 1,124,350; Jan. 12; Gaz. vol. 210; p. 444.
- Resilient wheel. G. V. Stein. No. 1,151,302; Aug. 24; Gaz. vol. 217; p. 1215.
- Resilient wheel. J. C. Streibich. No. 1,165,463; Dec. 28; Gaz. vol. 221; p. 1078.
- Resilient wheel. C. O. Thompson. No. 1,129,758; Feb. 23; Gaz. vol. 211; p. 1203.
- Resilient wheel. W. Trabue. No. 1,125,767; Jan. 19; Gaz. vol. 210; p. 986.
- Resilient wheel. C. Vollmer. No. 1,160,470; Nov. 16; Gaz. vol. 220; p. 808.
- Resilient wheel. B. Walters. No. 1,140,088; May 18; Gaz. vol. 214; p. 908.
- Resilient wheel. C. F. Webber and E. P. Hemenway. No. 1,163,575; Dec. 7; Gaz. vol. 221; p. 293.
- Resilient wheel. S. S. Wells. No. 1,162,004; Nov. 30; Gaz. vol. 220; p. 1443.
- Resilient wheel. S. S. Wells. No. 1,162,005; Nov. 30; Gaz. vol. 220; p. 1443.
- Resilient wheel. C. M. West. No. 1,155,456; Oct. 5; Gaz. vol. 219; p. 46.
- Resilient wheel. C. A. Whale and J. H. Black. No. 1,157,272; Oct. 19; Gaz. vol. 219; p. 737.
- Resilient wheel. M. F. Young. No. 1,133,354; Mar. 30; Gaz. vol. 212; p. 1399.
- Resilient wheel. J. J. Zipay. No. 1,148,347; July 27; Gaz. vol. 216; p. 1251.
- Resilient wheel for vehicles. J. F. and H. E. Sipe. No. 1,132,127; Mar. 16; Gaz. vol. 212; p. 868.
- Resinous composition and making the same. E. S. Dawson, Jr. No. 1,141,944; June 8; Gaz. vol. 215; p. 338.
- Resinous woods to remove the soluble constituents therefrom. Treating. I. S. Clope. No. 1,144,171; June 22; Gaz. vol. 215; p. 1181.
- Resinous woods. Treating. M. C. Whitaker and J. S. Bates. No. 1,142,922; June 15; Gaz. vol. 215; p. 719.
- Resistance. E. F. Northrup. No. 1,146,592; July 13; Gaz. vol. 216; p. 588.
- Resistance, Adjustable. E. C. Larry. No. 1,155,826; Oct. 5; Gaz. vol. 219; p. 176.
- Resistance device. S. E. Huenerfauth. No. 1,138,659; May 11; Gaz. vol. 214; p. 365.
- Resistance device, Variable. W. C. Reed. No. 1,152,842; Sept. 7; Gaz. vol. 218; p. 170.
- Resistance element. H. P. Ball. No. 1,149,173; Aug. 10; Gaz. vol. 217; p. 345.
- Resistance element. W. S. Hadaway, Jr. No. 1,158,487; Nov. 2; Gaz. vol. 220; p. 26.
- Resistance element and making same. R. H. Read. No. 1,127,280; Feb. 2; Gaz. vol. 211; p. 216.
- Resistance unit, Variable. S. W. Law. No. 1,142,586; June 8; Gaz. vol. 215; p. 564.
- Resoldering. G. Van Moore. No. 1,150,560; Aug. 17; Gaz. vol. 217; p. 904.
- Resonator. J. J. Comer. No. 1,137,187; Apr. 27; Gaz. vol. 213; p. 1221.
- Resonator. H. P. Tiffner. No. 1,127,320; Feb. 2; Gaz. vol. 211; p. 229.
- Respirator. J. A. Britton. No. 1,150,991; Aug. 24; Gaz. vol. 217; p. 1109.
- Respirator. F. Stern. No. 1,142,990; June 15; Gaz. vol. 215; p. 744.
- Respiratory-apparatus mask, helmet, &c. A. B. Dräger. No. 1,150,508; Aug. 17; Gaz. vol. 217; p. 885.
- Restaurant equipment. W. H. Vary and G. B. Parmenter. No. 1,147,831; July 27; Gaz. vol. 216; p. 1066.
- Restraining device. B. Gáspár. No. 1,136,396; Apr. 20; Gaz. vol. 213; p. 903.
- Restraining device. D. P. Walker. No. 1,146,376; July 13; Gaz. vol. 216; p. 510.
- Resurfacing mechanism. J. B. Hadaway. No. 1,161,857; Nov. 30; Gaz. vol. 220; p. 1391.
- Resurfacing-tool. J. H. Richardson. No. 1,140,398; May 25; Gaz. vol. 214; p. 1049.
- Resuscitating appliance. G. M. Mayer and F. T. Fowler. No. 1,157,655; Oct. 19; Gaz. vol. 219; p. 867.
- Retainer, Combination. F. Harding. No. 1,136,331; Apr. 20; Gaz. vol. 213; p. 878.
- Retaining means. A. Hella. No. 1,140,036; May 18; Gaz. vol. 214; p. 889.
- Retort and furnace. G. Schwahn. No. 1,132,738; Mar. 23; Gaz. vol. 212; p. 1140.
- Retort, Can heating. D. A. McIntosh. No. 1,151,111; Aug. 24; Gaz. vol. 217; p. 1149.
- Retort-door-securing mechanism. F. L. Miller. No. 1,144,152; June 22; Gaz. vol. 215; p. 1174.
- Retort for the production of gas by the carbonization of coal. Vertical. A. M. Duckham. No. 1,147,790; July 27; Gaz. vol. 216; p. 1051.
- Retort-furnace. H. A. Carpenter. No. 1,150,807; Aug. 17; Gaz. vol. 217; p. 988.
- Retort-furnace. H. A. Carpenter. No. 1,150,808; Aug. 17; Gaz. vol. 217; p. 989.
- Retort-furnace. W. E. Fletcher. No. 1,156,595; Oct. 12; Gaz. vol. 219; p. 467.
- Retort-furnace construction. H. A. Carpenter. No. 1,150,809; Aug. 17; Gaz. vol. 217; p. 989.
- Retort-furnace construction. H. A. Carpenter. No. 1,150,810; Aug. 17; Gaz. vol. 217; p. 989.
- Retort, Oil. J. Weiser. No. 1,127,951; Feb. 9; Gaz. vol. 211; p. 493.
- Retorts, Device for removing residue from. N. L. Heinz. No. 1,160,077; Nov. 9; Gaz. vol. 220; p. 618.
- Retorts, Door mechanism for vertical. J. H. Taussig. No. 1,140,339; May 18; Gaz. vol. 214; p. 994.
- Retorts, Heating. F. T. Beers. No. 1,140,351; May 25; Gaz. vol. 214; p. 1032.
- Retorts, Means for charging vertical. J. H. Taussig. No. 1,140,340; May 18; Gaz. vol. 214; p. 994.
- Retorts, Mechanism for removing residues from vertical. A. Roitzheim and W. Remy. No. 1,144,065; June 22; Gaz. vol. 215; p. 1141.
- Retorts, Regenerator-setting for vertical. S. Glover and J. West. No. 1,127,228; Feb. 2; Gaz. vol. 211; p. 199.
- Retting. M. A. Adam and W. J. Fernie. No. 1,140,296; May 18; Gaz. vol. 214; p. 977.
- Reverse-gear. E. M. Shannon. No. 1,129,741; Feb. 23; Gaz. vol. 211; p. 1198.
- Reversible coupling. S. H. Stoffel and H. J. Janssen. No. 1,157,968; Oct. 26; Gaz. vol. 219; p. 1043.
- Reversible die. F. O. Wells. No. 1,129,260; Feb. 23; Gaz. vol. 211; p. 1033.
- Reversible seat for tram-cars and other purposes. J. E. Anger. No. 1,140,097; May 18; Gaz. vol. 214; p. 911.
- Reversible seat for tram-cars and other purposes. J. E. Anger. No. 1,140,342; May 18; Gaz. vol. 214; p. 995.
- Reversing-gear. S. Baader. No. 1,127,846; Feb. 9; Gaz. vol. 211; p. 456.
- Reversing-gear mechanism. C. Feagler. No. 1,137,597; Apr. 27; Gaz. vol. 213; p. 1366.
- Reversing mechanism. G. Binder. No. 1,160,687; Nov. 16; Gaz. vol. 220; p. 800.
- Reversing mechanism. H. E. Townsend. No. 1,129,762; Feb. 23; Gaz. vol. 211; p. 1205.
- Reversing-switch. H. A. Lewis. No. 1,155,157; Sept. 28; Gaz. vol. 218; p. 1076.
- Revetment. J. McGillivray. No. 1,144,143; June 22; Gaz. vol. 215; p. 1171.
- Revetment. J. McGillivray. No. 1,144,144; June 22; Gaz. vol. 215; p. 1171.
- Revetment. J. McGillivray. No. 1,148,915; Aug. 3; Gaz. vol. 217; p. 153.
- Revolver. G. Mongardi. No. 1,124,312; Jan. 12; Gaz. vol. 210; p. 429.

Alphabetical list of inventions—Continued.

- Revolver. L. Woods. No. 1,150,566; Aug. 17; Gaz. vol. 217; p. 907.
- Revolving chair. C. J. Travers. No. 1,155,627; Oct. 5; Gaz. vol. 219; p. 104.
- Revolving-cylinder engine. H. R. Palmer. No. 1,159,079; Nov. 2; Gaz. vol. 220; p. 231.
- Revolving dining-room table. J. A. Oberg and J. R. Eckman. No. 1,139,564; May 18; Gaz. vol. 214; p. 721.
- Revolving mechanism, intermittently. W. X. Stevens. No. 1,163,789; Dec. 14; Gaz. vol. 221; p. 415.
- Revolving table. P. Goldmann. No. 1,162,691; Nov. 30; Gaz. vol. 220; p. 1675.
- Revolving ventilator. E. S. Pothemont. No. 1,128,271; Feb. 9; Gaz. vol. 211; p. 603.
- Rheostat. A. J. Horton. No. 1,130,976; Mar. 9; Gaz. vol. 212; p. 428.
- Rheostat. A. J. Horton. No. 1,158,052; Oct. 26; Gaz. vol. 219; p. 1071.
- Rheostat. G. B. Reisbach. No. 1,137,352; Apr. 27; Gaz. vol. 213; p. 1283.
- Rheostat. T. Rhodus. No. 1,154,728; Sept. 28; Gaz. vol. 218; p. 928.
- Rheostat. T. Rhodus. No. 1,159,093; Nov. 2; Gaz. vol. 220; p. 236.
- Rheostat. H. J. Wiegand. No. 1,130,949; Mar. 9; Gaz. vol. 212; p. 419.
- Rheostat, Compression-. E. L. Clark. No. 1,143,810; June 22; Gaz. vol. 215; p. 1052.
- Rheostat, Compression-. E. L. Clark. No. 1,154,377; Sept. 21; Gaz. vol. 218; p. 781.
- Rheostat-controller. G. P. Carroll. No. 1,130,476; Mar. 2; Gaz. vol. 212; p. 223.
- Rheostat, Liquid. G. H. Dorgeloh. No. 1,152,801; Sept. 7; Gaz. vol. 218; p. 134.
- Rheostat, Liquid. K. A. Simmon and A. J. Hall. No. 1,166,157; Dec. 28; Gaz. vol. 221; p. 1323.
- Rheostat, Liquid-. G. Squire. No. 1,161,746; Nov. 23; Gaz. vol. 220; p. 1305.
- Rheostat, Liquid. H. A. Steen. No. 1,161,993; Nov. 30; Gaz. vol. 220; p. 1439.
- Rheostat, Liquid. D. Welge. No. 1,157,134; Oct. 19; Gaz. vol. 219; p. 687.
- Rheostats, Short-circuiting and retrieving apparatus for. L. and H. L. Bradley. No. 1,148,656; Aug. 3; Gaz. vol. 217; p. 62.
- Ribbon-feeding mechanism. H. C. Gammeter. No. 1,148,962; Aug. 3; Gaz. vol. 217; p. 169.
- Ribbon-leader. J. H. Boye. No. 1,161,448; Nov. 23; Gaz. vol. 220; p. 1204.
- Ribbon, Metallic-leaf. F. H. Davis and C. Schumacher. No. 1,124,114; Jan. 5; Gaz. vol. 210; p. 311.
- Rice-cleaning-machine screen. N. S. Stern. No. 1,156,640; Oct. 12; Gaz. vol. 219; p. 484.
- Rice finishing, cleaning and polishing machine. J. B. Cornwall. No. 1,132,447; Mar. 16; Gaz. vol. 212; p. 985.
- Rice-header. A. J. Meeks. No. 1,128,172; Feb. 9; Gaz. vol. 211; p. 569.
- Ridge-cutter. R. H. Paris. No. 1,160,443; Nov. 16; Gaz. vol. 220; p. 798.
- Rifle, Automatic shoulder-. L. V. Benet and H. A. Mercie. No. 1,125,937; Jan. 26; Gaz. vol. 210; p. 1077.
- Rifle-carrier for mounted troops. H. W. Arnold. No. 1,163,307; Dec. 7; Gaz. vol. 221; p. 201.
- Rifle-cleaner. C. Yost. No. 1,164,564; Dec. 14; Gaz. vol. 221; p. 684.
- Rifle, Magazine-. D. B. Bubar. No. 1,140,245; May 18; Gaz. vol. 214; p. 961.
- Rifle, Magazine-. G. A. Horne. No. 1,146,568; July 13; Gaz. vol. 216; p. 580.
- Rifle-range shot-indicator. E. D. Church. No. 1,139,846; May 18; Gaz. vol. 214; p. 821.
- Rifle-sight. W. B. Burton. No. 1,142,665; June 8; Gaz. vol. 215; p. 589.
- Rifle, Tubular-magazine. C. A. Nelson. No. 1,141,256; June 1; Gaz. vol. 215; p. 58.
- Rifles, Bayonet-band lock for military. T. C. Johnson. No. 1,125,024; Jan. 12; Gaz. vol. 210; p. 684.
- Rifles, Safety mechanism for straight-pull breech-actions of military. H. Stamm. No. 1,155,326; Sept. 28; Gaz. vol. 218; p. 1130.
- Rifles, Straight-pull lock for military. H. Stamm. No. 1,124,071; Jan. 5; Gaz. vol. 210; p. 296.
- Rigging, Release. S. J. Strid. No. 1,131,438; Mar. 9; Gaz. vol. 212; p. 587.
- Rim and resilient tire, Combined demountable. W. H. Clarkson. No. 1,146,309; July 13; Gaz. vol. 216; p. 486.
- Rim and securing means therefor, Demountable. D. I. Selfridge. No. 1,127,813; Feb. 9; Gaz. vol. 211; p. 445.
- Rim, Collapsible. W. B. Christopher. No. 1,154,288; Sept. 21; Gaz. vol. 218; p. 749.
- Rim, Demountable. J. A. Anglada. No. 1,146,122; July 13; Gaz. vol. 216; p. 421.
- Rim, Demountable. J. R. Arthur. No. 1,139,151; May 11; Gaz. vol. 214; p. 542.
- Rim, Demountable. S. J. Dobrzynski. No. 1,166,043; Dec. 28; Gaz. vol. 221; p. 1280.
- Rim, Demountable. F. E. Donham and W. H. Fisher. No. 1,137,708; Apr. 27; Gaz. vol. 213; p. 1401.
- Rim, Demountable. C. C. Harbridge. No. 1,154,629; Sept. 28; Gaz. vol. 218; p. 895.
- Rim, Demountable. C. C. Harbridge. No. 1,165,094; Dec. 21; Gaz. vol. 221; p. 910.
- Rim, Demountable. C. C. Harbridge. No. 1,165,095; Dec. 21; Gaz. vol. 221; p. 911.
- Rim, Demountable. C. C. Harbridge. No. 1,165,096; Dec. 21; Gaz. vol. 221; p. 911.
- Rim, Demountable. E. Jones. No. 1,133,152; Mar. 23; Gaz. vol. 212; p. 1293.
- Rim, Demountable. P. J. and C. C. Neubig, Jr. No. 1,138,502; May 4; Gaz. vol. 214; p. 273.
- Rim, Demountable. E. A. Riggs. No. 1,148,860; Aug. 3; Gaz. vol. 217; p. 134.
- Rim, Demountable. A. J. Spranger and B. H. Hourtienne. No. 1,129,913; Mar. 2; Gaz. vol. 212; p. 27.
- Rim, Demountable. J. Stehr. No. 1,144,260; June 22; Gaz. vol. 215; p. 1212.
- Rim, Demountable. J. J. Stosick. No. 1,154,218; Sept. 21; Gaz. vol. 218; p. 724.
- Rim fastener, Demountable. W. L. Hale. No. 1,153,068; Sept. 7; Gaz. vol. 218; p. 249.
- Rim, Removable. A. R. Behnke. No. 1,133,835; Mar. 30; Gaz. vol. 212; p. 1572.
- Rim, Resilient. P. F. Dundon. No. 1,131,223; Mar. 9; Gaz. vol. 212; p. 513.
- Rim, Separable. P. S. Larson. No. 1,161,698; Nov. 23; Gaz. vol. 220; p. 1290.
- Rim-tool. H. C. Emerick. No. 1,140,806; May 25; Gaz. vol. 214; p. 1190.
- Rim-tool. M. M. Herman. No. 1,155,151; Sept. 28; Gaz. vol. 218; p. 1074.
- Rims, Clamping device for demountable. W. N. Booth. No. 1,132,648; Mar. 23; Gaz. vol. 212; p. 1107.
- Rims, Compressor for demountable. H. E. Lee. No. 1,144,855; June 29; Gaz. vol. 215; p. 1444.
- Rims, Tool for demountable. C. C. Harbridge. No. 1,127,236; Feb. 2; Gaz. vol. 211; p. 202.
- Rims, Tool for demountable. M. M. Herman. No. 1,133,139; Mar. 23; Gaz. vol. 212; p. 1287.
- Rims, Tool for demountable. C. L. Herrmann. No. 1,132,845; Mar. 23; Gaz. vol. 212; p. 1181.
- Rind-cutting machine. G. J. Sayer. No. 1,156,822; Oct. 12; Gaz. vol. 219; p. 546.
- Ring. See—
- | | |
|---------------------|---------------------------|
| Bread-placing ring. | Lubricating-ring. |
| Cistern neck-ring. | Memorandum-ring. |
| Curtain-ring. | Metal cinch rigging-ring. |
| Doffer-ring. | Mud-ring. |
| Drawing-ring. | Nose-ring. |
| Ear-ring. | Packing-ring. |
| Embroidery-ring. | Piston-ring. |
| Fibrous ring. | Shower-ring. |
| Finger-ring. | Spinning-ring. |
| Flat-packing ring. | Spoke-repair ring. |
| Hog-ring. | Tire-holding ring. |
| Key-ring. | |
- Ring. C. S. Wilcoxon. No. 1,128,084; Feb. 9; Gaz. vol. 211; p. 539.
- Ring-clamp, Engraver's. A. H. Myhre. No. 1,157,120; Oct. 19; Gaz. vol. 219; p. 682.
- Ring-coupling for shafts. F. T. Linman. No. 1,166,064; Dec. 28; Gaz. vol. 221; p. 1287.
- Ring-expander. F. O. Anderson. No. 1,139,149; May 11; Gaz. vol. 214; p. 541.
- Ring-expanding press. L. W. Swem. No. 1,154,893; Sept. 28; Gaz. vol. 218; p. 983.
- Ring-feeding machine. J. Merritt and C. H. Storrs. No. 1,134,887; Apr. 6; Gaz. vol. 213; p. 288.
- Ring-frame tool. L. H. Rooney. No. 1,139,806; May 18; Gaz. vol. 214; p. 807.
- Ring-holder, Safety. K. L. Toelcke. No. 1,141,992; June 8; Gaz. vol. 215; p. 354.
- Ring-holding device. W. Jacques. No. 1,135,807; Apr. 13; Gaz. vol. 213; p. 653.
- Ring-liners, Apparatus for cutting and applying. J. A. Gray. No. 1,162,155; Nov. 30; Gaz. vol. 220; p. 1496.
- Ring-polishing machine. G. M. Whitin. No. 1,156,958; Oct. 19; Gaz. vol. 219; p. 624.
- Ring-roll crusher and pulverizer. H. J. Shelton. No. 1,132,042; Mar. 16; Gaz. vol. 212; p. 837.
- Ring-roll, Positively-driven. W. E. Broughton. No. 1,158,627; Nov. 2; Gaz. vol. 220; p. 77.
- Ring-rolling machine, Finger-. H. Henrich. No. 1,124,434; Jan. 12; Gaz. vol. 210; p. 474.
- Ring-spreading machine. J. Merritt and W. A. Sawyer. No. 1,161,002; Nov. 16; Gaz. vol. 220; p. 999.
- Ring-straightening mechanism. J. Merritt. No. 1,161,001; Nov. 16; Gaz. vol. 220; p. 999.
- Rings, Manufacture of split. J. and E. L. Ettlinger. No. 1,158,376; Oct. 26; Gaz. vol. 219; p. 1185.
- Ringling system, Party-line. C. C. Bradbury. No. 1,158,103; Oct. 26; Gaz. vol. 219; p. 1090.
- Ripping device. G. L. Huyett. No. 1,129,681; Feb. 23; Gaz. vol. 211; p. 1179.
- Rivet and cap setting machine. W. C. Bray. No. 1,161,022; Nov. 23; Gaz. vol. 220; p. 1051.
- Rivet cutting and upsetting machine. N. Dedrick. No. 1,149,737; Aug. 10; Gaz. vol. 217; p. 550.
- Rivet dolly and holder, Combined. C. L. Rains. No. 1,162,649; Nov. 30; Gaz. vol. 220; p. 1661.
- Rivet-feeding mechanism. O. J. Borge. No. 1,132,826; Mar. 23; Gaz. vol. 212; p. 1174.

Alphabetical list of inventions—Continued.

- Rivet-head trimmer. M. J. Healy. No. 1,160,889; Nov. 16; Gaz. vol. 220; p. 958.
- Rivet heating and holding tool. G. Szemerey. No. 1,125,411; Jan. 19; Gaz. vol. 210; p. 860.
- Rivet-heating furnace, Oil-fired portable. W. Melas. No. 1,130,185; Mar. 2; Gaz. vol. 212; p. 120.
- Rivet, Hollow. E. M. Cobb. No. 1,130,962; Mar. 9; Gaz. vol. 212; p. 424.
- Rivet-set retainer. W. H. Shieler. No. 1,140,536; May 25; Gaz. vol. 214; p. 1101.
- Rivet setting and displacing tool. J. W. Thrasher. No. 1,130,121; Mar. 2; Gaz. vol. 212; p. 97.
- Rivet-setting machine. J. W. Coombs. No. 1,128,852; Feb. 16; Gaz. vol. 211; p. 853.
- Rivet-shearing machine. D. T. Goodman. No. 1,162,856; Dec. 7; Gaz. vol. 221; p. 43.
- Riveter. J. L. Bernard. No. 1,162,742; Dec. 7; Gaz. vol. 221; p. 5.
- Riveter, Electric. S. S. Eveland. No. 1,164,634; Dec. 21; Gaz. vol. 221; p. 750.
- Riveter, Gauntree. C. J. Walker. No. 1,158,874; Nov. 2; Gaz. vol. 220; p. 163.
- Riveting apparatus, Electric. F. P. Kobert. No. 1,139,300; May 11; Gaz. vol. 214; p. 591.
- Riveting device. T. Reis. No. 1,152,971; Sept. 7; Gaz. vol. 218; p. 218.
- Riveting-machine. M. J. Chaplin. No. 1,144,297; June 22; Gaz. vol. 215; p. 1224.
- Riveting-machine. W. Collingwood. No. 1,165,851; Dec. 28; Gaz. vol. 221; p. 1213.
- Riveting-machine. C. S. Gooding. No. 1,148,673; Aug. 3; Gaz. vol. 217; p. 69.
- Riveting-machine. A. Larsen. No. 1,156,013; Oct. 5; Gaz. vol. 219; p. 238.
- Riveting-machine. C. L. Wade. No. 1,132,988; Mar. 23; Gaz. vol. 212; p. 1233.
- Riveting-machine, Electric. C. Knoth. No. 1,128,690; Feb. 16; Gaz. vol. 211; p. 796.
- Riveting-machines, Clutch-actuating mechanism for. R. Jay. No. 1,137,058; Apr. 27; Gaz. vol. 213; p. 1174.
- Riveting-tool or dolly-bar. M. Noak. No. 1,152,205; Aug. 31; Gaz. vol. 217; p. 1571.
- Roach-trap. J. Blum. No. 1,128,946; Feb. 16; Gaz. vol. 211; p. 889.
- Roach-trap. E. A. Deardorff. No. 1,134,318; Apr. 6; Gaz. vol. 213; p. 87.
- Roach-trap. S. C. Johnson. No. 1,161,388; Nov. 23; Gaz. vol. 220; p. 1183.
- Road. R. P. Scott. No. 1,138,983; May 11; Gaz. vol. 214; p. 481.
- Road and making the same. T. M. Hart. No. 1,158,418; Oct. 26; Gaz. vol. 219; p. 1201.
- Road-bed. S. Mahurin. No. 1,139,692; May 18; Gaz. vol. 214; p. 767.
- Road-bed and leveler. F. U. Adams. No. 1,136,916; Apr. 27; Gaz. vol. 213; p. 1123.
- Road-building apparatus. T. Brewer. No. 1,124,847; Jan. 12; Gaz. vol. 210; p. 622.
- Road-building machine. E. J. Akins. No. 1,161,016; Nov. 23; Gaz. vol. 220; p. 1049.
- Road-building machine. J. H. Moore, Jr. No. 1,128,174; Feb. 9; Gaz. vol. 211; p. 570.
- Road construction, Hard-. E. Robertson. No. 1,127,518; Feb. 9; Gaz. vol. 211; p. 339.
- Road-hone. J. H. Kolpien. No. 1,135,532; Apr. 13; Gaz. vol. 213; p. 556.
- Road-leveler. F. M. Settle. No. 1,153,452; Sept. 14; Gaz. vol. 218; p. 424.
- Road-leveling machine. C. H. Jones. No. 1,140,985; May 25; Gaz. vol. 214; p. 1256.
- Road-machine. J. M. Bresee. No. 1,128,655; Feb. 16; Gaz. vol. 211; p. 785.
- Road-machine. J. M. Bresee. No. 1,143,032; June 15; Gaz. vol. 215; p. 758.
- Road-machine. J. M. Larsh. No. 1,124,625; Jan. 12; Gaz. vol. 210; p. 544.
- Road-machine steering-gear. F. E. Arndt. No. 1,166,036; Dec. 28; Gaz. vol. 221; p. 1277.
- Road-making machine. T. S. Culbreath. No. 1,166,188; Dec. 28; Gaz. vol. 221; p. 1334.
- Road-making machine. E. T. Sutherland. No. 1,144,444; June 29; Gaz. vol. 215; p. 1303.
- Road material, Machine for distributing fluid. W. H. Gailor. No. 1,159,343; Nov. 2; Gaz. vol. 220; p. 325.
- Road-rammer. O. Abeling. No. 1,145,734; July 6; Gaz. vol. 216; p. 266.
- Road-roller. E. R. Greer. No. 1,129,863; Mar. 2; Gaz. vol. 212; p. 11.
- Road-sanding apparatus. G. H. Gray. No. 1,165,331; Dec. 21; Gaz. vol. 221; p. 992.
- Road-surfaces, Compound for treating. W. J. Reynolds. No. 1,131,793; Mar. 16; Gaz. vol. 212; p. 748.
- Road-surfacing material, Machine for spreading. G. Burns. No. 1,162,029; Nov. 30; Gaz. vol. 220; p. 1451.
- Road wearing-surfaces, Machine for preparing. L. S. Kasson. No. 1,163,825; Dec. 14; Gaz. vol. 221; p. 429.
- Road-working machine. C. S. Gald. No. 1,126,001; Jan. 26; Gaz. vol. 210; p. 1100.
- Road-working machine. N. S. Monroe. No. 1,131,409; Mar. 9; Gaz. vol. 212; p. 577.
- Road-working machine. N. S. Monroe. No. 1,133,876; Mar. 30; Gaz. vol. 212; p. 1587.
- Road-working machine. N. S. Monroe. No. 1,133,877; Mar. 30; Gaz. vol. 212; p. 1588.
- Roads, Apparatus for and method of making. J. A. Johnston. No. 1,158,503; Nov. 2; Gaz. vol. 220; p. 32.
- Roadway. E. F. Kammer. No. 1,166,051; Dec. 28; Gaz. vol. 221; p. 1282.
- Roadway-block, Preformed. J. A. Topping. No. 1,150,558; Aug. 17; Gaz. vol. 217; p. 904.
- Roadway-scarifier. W. V. Darling. No. 1,155,218; Sept. 28; Gaz. vol. 218; p. 1096.
- Roadway-treating apparatus. S. E. Finley. No. 1,124,407; Jan. 12; Gaz. vol. 210; p. 463.
- Roadways, Apparatus for applying binder to. W. H. Gailor. No. 1,124,604; Jan. 12; Gaz. vol. 210; p. 535.
- Roadways, Treating. E. E. Allen. No. 1,142,788; June 15; Gaz. vol. 215; p. 673.
- Roaster: *See*—
- Coffee-roaster. Matrix-roaster.
- Roaster, Portable rotary. B. Mago. No. 1,134,343; Apr. 6; Gaz. vol. 213; p. 95.
- Robe and whip lock, Combined. N. G. Ballard. No. 1,161,588; Nov. 23; Gaz. vol. 220; p. 1252.
- Robe, Chauffeur-. W. G. Rasch. No. 1,163,366; Dec. 7; Gaz. vol. 221; p. 222.
- Robe for automobiles. H. S. Z. Adler. No. 1,164,445; Dec. 14; Gaz. vol. 221; p. 644.
- Robe-holder. E. C. Herrmann. No. 1,147,167; July 20; Gaz. vol. 216; p. 807.
- Robe-lock. P. G. Brown. No. 1,129,378; Feb. 23; Gaz. vol. 211; p. 1074.
- Robe-rail lock. E. W. Leshner. No. 1,162,086; Nov. 30; Gaz. vol. 220; p. 1472.
- Robe-support. C. J. Moore. No. 1,143,772; June 22; Gaz. vol. 215; p. 1039.
- Rock-clearing machine. J. W. Redding. No. 1,134,226; Apr. 6; Gaz. vol. 213; p. 53.
- Rock-collecting machine. A. G. Bray. No. 1,126,695; Feb. 2; Gaz. vol. 211; p. 9.
- Rock-crusher. E. H. Moyle. No. 1,142,116; June 8; Gaz. vol. 215; p. 400.
- Rock-crusher. C. G. Simonds and A. E. Smith. No. 1,164,762; Dec. 21; Gaz. vol. 221; p. 794.
- Rock-drill. G. R. Bennett. No. 1,127,396; Feb. 9; Gaz. vol. 211; p. 296.
- Rock-drill. C. A. Dawley. No. 1,148,760; Aug. 3; Gaz. vol. 217; p. 100.
- Rock-drill. G. H. Gilman. No. 1,164,496; Dec. 14; Gaz. vol. 221; p. 661.
- Rock-drill. V. P. Kessel. No. 1,132,276; Mar. 16; Gaz. vol. 212; p. 924.
- Rock-drill. M. A. Knapp. No. 1,138,612; May 4; Gaz. vol. 214; p. 310.
- Rock-drill. V. J. O'Brien. No. 1,162,249; Nov. 30; Gaz. vol. 220; p. 1528.
- Rock-drill. W. L. Smith. No. 1,139,139; May 11; Gaz. vol. 214; p. 538.
- Rock-drill. W. Wood. No. 1,162,964; Dec. 7; Gaz. vol. 221; p. 80.
- Rock-drill-adjusting device. A. L. Bolson. No. 1,155,034; Sept. 28; Gaz. vol. 218; p. 1031.
- Rock-drill attachment. H. H. Hughes. No. 1,159,034; Nov. 2; Gaz. vol. 220; p. 215.
- Rock-drill dust-collector. E. F. Galligan. No. 1,124,605; Jan. 12; Gaz. vol. 210; p. 535.
- Rock-drill dust-collector. E. F. Galligan. No. 1,127,225; Feb. 2; Gaz. vol. 211; p. 197.
- Rock-drill dust-collector. E. F. Galligan. No. 1,128,437; Feb. 16; Gaz. vol. 211; p. 710.
- Rock-drill dust-collector. E. F. Galligan. No. 1,128,674; Feb. 16; Gaz. vol. 211; p. 792.
- Rock-drill dust-collector. E. F. Galligan. No. 1,128,675; Feb. 16; Gaz. vol. 211; p. 792.
- Rock-drill dust-collector. E. F. Galligan. No. 1,131,052; Mar. 9; Gaz. vol. 212; p. 455.
- Rock-drill dust-collector. F. Rylander. No. 1,131,009; Mar. 9; Gaz. vol. 212; p. 439.
- Rock-drill, Power. F. I. Porter. No. 1,140,185; May 18; Gaz. vol. 214; p. 941.
- Rock-drill relief-valve. T. E. Sturtevant. No. 1,127,823; Feb. 9; Gaz. vol. 211; p. 448.
- Rock-drill-rotating device. C. O. Palmer. No. 1,153,700; Sept. 14; Gaz. vol. 218; p. 511.
- Rock-drills, coal-cutters, and the like, Feeding means of percussive. F. Simon and J. W. Scott. No. 1,146,356; July 13; Gaz. vol. 216; p. 502.
- Rock-drills, Core-holder for tubular. J. F. Lindberg. No. 1,145,323; July 6; Gaz. vol. 216; p. 121.
- Rock-drills for supplying water thereto, Attachment for. C. Hansen. No. 1,138,214; May 4; Gaz. vol. 214; p. 172.
- Rock-drills, Means for mounting. O. S. Tonnesen. No. 1,160,672; Nov. 16; Gaz. vol. 220; p. 884.
- Rock-drilling engines, Combined drill-bit-holding chuck and front cylinder-head for. J. G. Leyner. No. 1,124,627; Jan. 12; Gaz. vol. 210; p. 545.
- Rock-grab. J. Madill. No. 1,129,356; Feb. 23; Gaz. vol. 211; p. 1067.
- Rocks, Separating the constituents of. G. S. A. Appelqvist and E. O. E. Tyden. No. 1,143,797; June 22; Gaz. vol. 215; p. 1048.
- Rocker, Spring-. A. W. Schran. No. 1,150,546; Aug. 17; Gaz. vol. 217; p. 898.

Alphabetical list of inventions—Continued.

- Rocking and rocking-arresting device. O. S. Miers and E. E. Gensler. No. 1,151,212; Aug. 24; Gaz. vol. 217; p. 1186.
- Rocking-chair. E. Robbins. No. 1,132,387; Mar. 16; Gaz. vol. 212; p. 963.
- Rod: See—
- | | |
|-----------------|----------------|
| Bowing-rod. | Leveling-rod. |
| Brake-rod. | Lightning-rod. |
| Bridle-rod. | Radius-rod. |
| Connecting-rod. | Stair-rod. |
| Curtain-rod. | Switch-rod. |
| End-gate rod. | Umbrella-rod. |
| Fishing-rod. | |
- Rod-bending machine. R. C. Wilson. No. 1,125,241; Jan. 19; Gaz. vol. 210; p. 748.
- Rod-clamp. M. M. Cox. No. 1,138,195; May 4; Gaz. vol. 214; p. 166.
- Rod connection. J. G. Heaslet. No. 1,166,206; Dec. 28; Gaz. vol. 221; p. 1341.
- Rod-coupling. S. R. Hart. No. 1,157,103; Oct. 19; Gaz. vol. 219; p. 676.
- Rod coupling. Sectional. L. L. Mast. No. 1,140,052; May 18; Gaz. vol. 214; p. 895.
- Rod-cutter. N. C. Simonsen. No. 1,137,093; Apr. 27; Gaz. vol. 213; p. 1187.
- Rod-cutting device. R. E. Rosewarne. No. 1,146,657; July 13; Gaz. vol. 216; p. 609.
- Rod-head. P. P. Mirtz. No. 1,133,874; Mar. 30; Gaz. vol. 212; p. 1586.
- Rod-supporting tie. J. B. Nuvel. No. 1,151,378; Aug. 24; Gaz. vol. 217; p. 1239.
- Rods and tubes from plastic metal. Apparatus for making. G. Mellen. No. 1,139,884; May 18; Gaz. vol. 214; p. 834.
- Rods, Cleaning. S. M. Cutter. No. 1,142,499; June 8; Gaz. vol. 215; p. 535.
- Rods or bolts. Detachable head for connecting. W. Caldwell. No. 1,133,428; Mar. 30; Gaz. vol. 212; p. 1426.
- Rodent-exterminating system. D. L. Levey. No. 1,137,639; Apr. 27; Gaz. vol. 213; p. 1380.
- Rodent-trap. D. L. Levey. No. 1,137,640; Apr. 27; Gaz. vol. 213; p. 1381.
- Rodent-trap. J. M. Wolfe. No. 1,153,988; Sept. 21; Gaz. vol. 218; p. 646.
- Roll covering. Suction. P. Boucher. No. 1,152,596; Sept. 7; Gaz. vol. 218; p. 50.
- Roll-crusher. R. H. Beaumont. No. 1,153,016; Sept. 7; Gaz. vol. 218; p. 233.
- Roll-crusher. W. H. Lieber. No. 1,141,643; June 1; Gaz. vol. 215; p. 197.
- Roll-crusher. R. C. Newhouse. No. 1,137,418; Apr. 27; Gaz. vol. 213; p. 1307.
- Roll-forming apparatus. O. Gerrish. No. 1,163,401; Dec. 7; Gaz. vol. 221; p. 233.
- Roll-mill for hard materials. H. Aldehoff. No. 1,133,212; Mar. 23; Gaz. vol. 212; p. 1313.
- Roll-molding machine. W. L. McCandless. No. 1,164,947; Dec. 21; Gaz. vol. 221; p. 859.
- Roll. Non-deflecting. B. D. Coppage. No. 1,145,558; July 6; Gaz. vol. 216; p. 203.
- Roll-polishing apparatus. O. Lindquist and A. Pisarcik. No. 1,165,009; Dec. 21; Gaz. vol. 221; p. 881.
- Roll-tightening machine. J. Duvall. No. 1,164,586; Dec. 14; Gaz. vol. 221; p. 691.
- Roll-trimming machine. M. F. Anderson. No. 1,139,322; May 11; Gaz. vol. 214; p. 598.
- Rolls. Apparatus for making composite. J. T. Osler. No. 1,132,612; Mar. 23; Gaz. vol. 212; p. 1094.
- Rolls having duplicate passes. Turning. E. W. Thomas. No. 1,151,737; Aug. 31; Gaz. vol. 217; p. 1409.
- Rolls. Making spirally-wound. C. S. Lockwood. No. 1,152,110; Aug. 31; Gaz. vol. 217; p. 1540.
- Rolls. Keying device for. W. F. Kirk. No. 1,130,409; Mar. 2; Gaz. vol. 212; p. 197.
- Roller: See—
- | | |
|---------------------------|--------------------------|
| Automatic roller. | Ground-roller. |
| Bearing-roller. | Inking-roller. |
| Beefsteak-roller. | Land-roller. |
| Cane-mill roller. | Printing-roller. |
| Car-door roller. | Road-roller. |
| Cotton-gin roller. | Shade-roller. |
| Curtain-roller. | Spring-roller. |
| Curtain and shade roller. | Suction-roller. |
| Expanding roller. | Type-writer feed-roller. |
- Roller. W. H. Cooper. No. 1,123,851; Jan. 5; Gaz. vol. 210; p. 223.
- Roller. L. G. G. Dibbets. No. 1,128,113; Feb. 9; Gaz. vol. 211; p. 549.
- Roller. F. S. Morton. No. 1,137,781; May 4; Gaz. vol. 214; p. 21.
- Roller-clamp. H. J. Lowe. No. 1,144,556; June 29; Gaz. vol. 215; p. 1340.
- Roller-gage for leaf-springs. W. G. Polsgrove. No. 1,159,265; Nov. 2; Gaz. vol. 220; p. 297.
- Roller-guard. M. Bishop. No. 1,146,547; July 13; Gaz. vol. 216; p. 572.
- Roller-head. F. X. Pfäuger. No. 1,142,202; June 8; Gaz. vol. 215; p. 429.
- Roller-holder. Adjustable. A. J. Blackwood. No. 1,130,880; Mar. 9; Gaz. vol. 212; p. 396.
- Roller-lock. C. Sanford, Sr. No. 1,159,421; Nov. 9; Gaz. vol. 220; p. 384.
- Roller-mill. A. F. Altheide. No. 1,130,365; Mar. 2; Gaz. vol. 212; p. 182.
- Roller-mills. Ventilating flour-board for. L. F. Little. No. 1,161,486; Nov. 23; Gaz. vol. 220; p. 1217.
- Roller-pan. Rotary. C. Pletscher. No. 1,154,935; Sept. 28; Gaz. vol. 218; p. 999.
- Roller-screen. G. Neupauer. No. 1,164,385; Dec. 14; Gaz. vol. 221; p. 623.
- Roller-screen. Knockdown. W. W. Watson. No. 1,135,563; Apr. 13; Gaz. vol. 213; p. 567.
- Rollers for pressing out water from moist wood-pulp, cellulose, and similar materials in endless webs or in sheets. Rotating. P. C. Schaanning. No. 1,123,388; Jan. 5; Gaz. vol. 210; p. 66.
- Rollers, Manufacturing. F. H. Wolever. No. 1,161,756; Nov. 23; Gaz. vol. 220; p. 1308.
- Rolling apparatus. Metal. H. R. Geer. No. 1,157,378; Oct. 19; Gaz. vol. 219; p. 774.
- Rolling-chair. C. N. Hazelton. No. 1,123,872; Jan. 5; Gaz. vol. 210; p. 230.
- Rolling-chair. C. N. Hazelton. No. 1,142,168; June 8; Gaz. vol. 215; p. 417.
- Rolling hollow-headed metal bars. S. R. Vannaman. No. 1,140,087; May 18; Gaz. vol. 214; p. 907.
- Rolling-hoop. B. Pence. No. 1,150,880; Aug. 24; Gaz. vol. 217; p. 1072.
- Rolling hoops or tires. Apparatus for. T. E. Holmes. No. 1,165,175; Dec. 21; Gaz. vol. 221; p. 940.
- Rolling-machine. J. M. Cromley. No. 1,125,481; Jan. 19; Gaz. vol. 210; p. 882.
- Rolling-machine. O. Dellwitz. No. 1,141,447; June 1; Gaz. vol. 215; p. 129.
- Rolling machine. Metal. N. P. Sjobring. No. 1,155,522; Oct. 5; Gaz. vol. 219; p. 70.
- Rolling machine. Metal. S. D. Sturgis. No. 1,147,985; July 27; Gaz. vol. 216; p. 1121.
- Rolling-mill. I. R. Blose. No. 1,150,492; Aug. 17; Gaz. vol. 217; p. 879.
- Rolling-mill. W. A. Dunn. No. 1,156,986; Oct. 19; Gaz. vol. 219; p. 634.
- Rolling-mill. J. E. Fawell. No. 1,131,604; Mar. 9; Gaz. vol. 212; p. 645.
- Rolling-mill. W. W. Frazier. No. 1,133,551; Mar. 30; Gaz. vol. 212; p. 1469.
- Rolling-mill. J. Puppe. No. 1,154,884; Sept. 28; Gaz. vol. 218; p. 980.
- Rolling-mill attachment. Plate. G. Diefenbach and H. Waldorf. No. 1,135,996; Apr. 20; Gaz. vol. 213; p. 761.
- Rolling-mill. Continuously-operating. B. Quast. No. 1,123,797; Jan. 5; Gaz. vol. 210; p. 205.
- Rolling-mill for metal sheets and strips. V. Chartener. No. 1,127,591; Feb. 9; Gaz. vol. 211; p. 364.
- Rolling-mill roll. N. King, Sr. No. 1,138,665; May 11; Gaz. vol. 214; p. 368.
- Rolling-mills. Automatic roll adjustment for. W. R. Clark. No. 1,145,880; July 13; Gaz. vol. 216; p. 336.
- Rolling-mills. Gear-drive for. C. J. Gibbons and P. C. Farwell. No. 1,158,479; Nov. 2; Gaz. vol. 220; p. 24.
- Rolling-mills. Screw-down mechanism for. F. C. Biggert, Jr., and L. Jones. No. 1,161,440; Nov. 23; Gaz. vol. 220; p. 1201.
- Rolling-mills. Polishing device for. B. P. Swyers. No. 1,159,544; Nov. 9; Gaz. vol. 220; p. 427.
- Rolling-mills. Table-actuating mechanism for. F. C. Biggert, Jr. No. 1,161,441; Nov. 23; Gaz. vol. 220; p. 1202.
- Rolling-pin. E. C. Ahlheim. No. 1,158,111; Oct. 26; Gaz. vol. 219; p. 1092.
- Rolling-pin. E. Aschbacher. No. 1,164,777; Dec. 21; Gaz. vol. 221; p. 800.
- Rolling plates for automobile-radiators. Machine for. W. Schoellkopf. No. 1,163,865; Dec. 14; Gaz. vol. 221; p. 442.
- Rolling seat. E. H. Metcalf. No. 1,150,052; Aug. 17; Gaz. vol. 217; p. 724.
- Rolling transmission mechanism. F. O. Woodland. No. 1,139,393; May 11; Gaz. vol. 214; p. 625.
- Röntgen images. Method of and apparatus for projecting. G. Bucky. No. 1,164,987; Dec. 21; Gaz. vol. 221; p. 874.
- Roof. C. Russell. No. 1,145,440; July 6; Gaz. vol. 216; p. 162.
- Roof and roofing-tile. Tile. W. A. Brunkhorst. No. 1,123,674; Jan. 5; Gaz. vol. 210; p. 163.
- Roof-bracket. G. H. Hans. No. 1,159,216; Nov. 2; Gaz. vol. 220; p. 281.
- Roof construction. J. A. Walker. No. 1,124,563; Jan. 12; Gaz. vol. 210; p. 520.
- Roof-covering. A. W. Phippen. No. 1,163,034; Dec. 7; Gaz. vol. 221; p. 105.
- Roof for mausoleums, vaults, and the like. C. E. Tayntor. No. 1,136,629; Apr. 20; Gaz. vol. 213; p. 985.
- Roof-gutter. O. Peterson and H. D. Graves. No. 1,126,854; Feb. 2; Gaz. vol. 211; p. 68.
- Roof. Loose-roll tile. S. B. Myers and H. L. Rogers. No. 1,144,332; June 22; Gaz. vol. 215; p. 1237.
- Roof or floor structure. L. Baumgartl. No. 1,140,731; May 25; Gaz. vol. 214; p. 1164.
- Roof-plate. E. Laboudigue. No. 1,145,598; July 6; Gaz. vol. 216; p. 217.
- Roof scaffold-bracket. C. S. Winn and C. A. Wall. No. 1,152,685; Sept. 7; Gaz. vol. 218; p. 113.

Alphabetical list of inventions—Continued.

- Roof scaffolding-bracket. O. Nielsen. No. 1,148,919; Aug. 3; Gaz. vol. 217; p. 154.
- Roof structure for portable buildings. H. M. Leonard. No. 1,124,474; Jan. 12; Gaz. vol. 210; p. 489.
- Roof structure for silos and the like. O. Brumbaugh. No. 1,147,207; July 20; Gaz. vol. 216; p. 822.
- Roof structure for storage-bins. J. E. Allsteadt. No. 1,137,689; Apr. 27; Gaz. vol. 213; p. 1396.
- Roof-valley. C. A. Swanson. No. 1,152,236; Aug. 31; Gaz. vol. 217; p. 1583.
- Roofers' spreading-tool for forming cement joints. B. G. Casler. No. 1,141,103; June 1; Gaz. vol. 215; p. 5.
- Roofing. F. Brucker. No. 1,153,152; Sept. 7; Gaz. vol. 218; p. 277.
- Roofing. A. W. Phippen. No. 1,137,895; May 4; Gaz. vol. 214; p. 59.
- Roofing and the like, Nail and washer for sheet-metal. C. B. Edwards. No. 1,144,700; June 29; Gaz. vol. 215; p. 1390.
- Roofing, Asphalt. H. S. Smalley. No. 1,164,965; Dec. 21; Gaz. vol. 221; p. 866.
- Roofing-bracket. W. H. Boyd. No. 1,127,173; Feb. 2; Gaz. vol. 211; p. 119.
- Roofing-cleat. E. J. Yetter. No. 1,148,647; Aug. 3; Gaz. vol. 217; p. 59.
- Roofing elements, Making. F. C. Overbury. No. 1,154,334; Sept. 21; Gaz. vol. 218; p. 765.
- Roofing-felt, Standing weatherproof seam for. H. Von Uffel. No. 1,147,582; July 20; Gaz. vol. 216; p. 952.
- Roofing, Flexible convex tile. F. C. Overbury and H. C. Platts. No. 1,158,267; Oct. 26; Gaz. vol. 219; p. 1146.
- Roofing implement. J. N. Farnham. No. 1,123,266; Jan. 5; Gaz. vol. 210; p. 21.
- Roofing material. A. S. Spiegel and L. F. Lindley. No. 1,157,438; Oct. 19; Gaz. vol. 219; p. 796.
- Roofing material, Tool for spreading. E. L. Cannon. No. 1,144,891; June 29; Gaz. vol. 215; p. 1457.
- Roofing, Metallic. W. H. Kour. No. 1,140,835; May 25; Gaz. vol. 214; p. 1201.
- Roofing, Metallic. M. J. N. Schneider. No. 1,162,949; Dec. 7; Gaz. vol. 221; p. 75.
- Roofing or sheeting. C. B. Martin. No. 1,149,204; Aug. 10; Gaz. vol. 217; p. 357.
- Roofing, Ornamenting and improving prepared. M. B. Becker. No. 1,157,664; Oct. 26; Gaz. vol. 219; p. 936.
- Roofing-package. A. S. Spiegel. No. 1,164,422; Dec. 14; Gaz. vol. 221; p. 635.
- Roofing, Prepared. M. B. Becker. No. 1,157,665; Oct. 26; Gaz. vol. 219; p. 937.
- Roofing, Prepared. S. H. Goldberg. No. 1,123,727; Jan. 5; Gaz. vol. 210; p. 181.
- Roofing, Prepared. F. C. Lowrey. No. 1,134,086; Mar. 30; Gaz. vol. 212; p. 1655.
- Roofing, Prepared. S. G. Wright. No. 1,144,313; June 22; Gaz. vol. 215; p. 1230.
- Roofing, Seam-cleat for sheet. A. C. Fischer. No. 1,150,261; Aug. 17; Gaz. vol. 217; p. 800.
- Roofing, Sheet-metal. C. B. Edwards. No. 1,140,667; May 25; Gaz. vol. 214; p. 1144.
- Roofing, Sheet-metal. E. W. Edwards. No. 1,137,746; May 4; Gaz. vol. 214; p. 9.
- Roofing, Sheet-metal. E. R. Probert. No. 1,123,921; Jan. 5; Gaz. vol. 210; p. 247.
- Roofing, Sheet-metal. E. R. Probert. No. 1,144,725; June 29; Gaz. vol. 215; p. 1399.
- Roofing, Sheet-metal. E. R. Probert. No. 1,163,556; Dec. 7; Gaz. vol. 221; p. 287.
- Roofing sheets, Machine for uniting metal. W. E. Philipp. No. 1,158,274; Oct. 26; Gaz. vol. 219; p. 1149.
- Roofing, Standing weatherproof seam for felt. H. Von Uffel. No. 1,144,265; June 22; Gaz. vol. 215; p. 1213.
- Roofing-strip. R. W. Bird. No. 1,130,368; Mar. 2; Gaz. vol. 212; p. 183.
- Roofing-strips, Process and apparatus for the manufacture and preparation of. H. Abraham. No. 1,126,932; Feb. 2; Gaz. vol. 211; p. 94.
- Roofing, Tile. F. C. Overbury and H. C. Platts. No. 1,158,268; Oct. 26; Gaz. vol. 219; p. 1146.
- Roofing, Tile-imitating. A. S. Spiegel. No. 1,126,114; Jan. 26; Gaz. vol. 210; p. 1142.
- Roost and vermin-trap, Combined poultry-. G. Woodall. No. 1,128,928; Feb. 16; Gaz. vol. 211; p. 882.
- Roost, Poultry-. H. C. Hart. No. 1,165,252; Dec. 21; Gaz. vol. 221; p. 967.
- Roost, Poultry-. C. M. Longyear. No. 1,129,697; Feb. 23; Gaz. vol. 211; p. 1183.
- Roost, Poultry-. G. Roegner. No. 1,125,597; Jan. 19; Gaz. vol. 210; p. 923.
- Roost, Sanitary poultry-. E. J. Hagan. No. 1,154,392; Sept. 21; Gaz. vol. 218; p. 786.
- Roof-beveling device. W. C. Dalbey. No. 1,157,681; Oct. 26; Gaz. vol. 219; p. 942.
- Rope and cord making machine. P. De Benedictis. No. 1,124,397; Jan. 12; Gaz. vol. 210; p. 460.
- Rope attachment, Awning-. L. I. Reichner. No. 1,162,513; Nov. 30; Gaz. vol. 220; p. 1620.
- Rope-clamp. F. W. Meyers. No. 1,149,385; Aug. 10; Gaz. vol. 217; p. 424.
- Rope-clamp. S. C. Swisher. No. 1,159,616; Nov. 9; Gaz. vol. 220; p. 455.
- Rope-clamp. A. W. Webb. No. 1,159,628; Nov. 9; Gaz. vol. 220; p. 459.
- Rope clamp, Hoisting-. J. J. K. Koughan. No. 1,148,387; July 27; Gaz. vol. 216; p. 1265.
- Rope-drive elevator. E. Boening. No. 1,132,761; Mar. 23; Gaz. vol. 212; p. 1149.
- Rope-drum. T. S. Miller. No. 1,148,609; Aug. 3; Gaz. vol. 217; p. 45.
- Rope guide and protector. A. Early. No. 1,147,792; July 27; Gaz. vol. 216; p. 1052.
- Rope-lock. J. C. N. Wistendahl. No. 1,164,692; Dec. 21; Gaz. vol. 221; p. 771.
- Rope-machine. D. Scanlan. No. 1,150,151; Aug. 17; Gaz. vol. 217; p. 761.
- Rope machine, Cordage-. C. E. Dailey. No. 1,141,040; May 25; Gaz. vol. 214; p. 1274.
- Rope-making machines, Strand-guide for. J. S. Barnes and N. E. Sherwood. No. 1,154,905; Sept. 28; Gaz. vol. 218; p. 987.
- Rope sheave. Expandable. J. W. Brassington. No. 1,159,165; Nov. 2; Gaz. vol. 220; p. 261.
- Rope-socket. G. A. Montgomery. No. 1,153,812; Sept. 14; Gaz. vol. 218; p. 550.
- Rope-tying device. C. C. Van Dyke. No. 1,155,976; Oct. 5; Gaz. vol. 219; p. 226.
- Ropes for haulage and like purposes, Attachment for. F. Ringrose and T. Stevenson. No. 1,129,124; Feb. 23; Gaz. vol. 211; p. 987.
- Rosin and turpentine from resinous woods, Removing. W. M. Bashlin. No. 1,136,994; Apr. 27; Gaz. vol. 213; p. 1151.
- Rosin-holder. W. F. T. Mollenhauer and H. E. Leach. No. 1,137,414; Apr. 27; Gaz. vol. 213; p. 1305.
- Rosser mechanism. J. A. Weber. No. 1,153,363; Sept. 14; Gaz. vol. 218; p. 392.
- Rotary apparatus for treating materials. J. W. Hornsey. No. 1,142,521; June 8; Gaz. vol. 215; p. 542.
- Rotary attachment. H. G. Johnston. No. 1,135,808; Apr. 13; Gaz. vol. 213; p. 653.
- Rotary carrier. F. D. Cleveland. No. 1,125,657; Jan. 19; Gaz. vol. 210; p. 945.
- Rotary combustion-engine. L. W. Penzer. No. 1,158,271; Oct. 26; Gaz. vol. 219; p. 1148.
- Rotary crusher. J. L. Hiller. No. 1,135,017; Apr. 13; Gaz. vol. 213; p. 378.
- Rotary cutter. R. H. Cornman. No. 1,150,662; Aug. 17; Gaz. vol. 217; p. 939.
- Rotary cutter. W. Lewis. No. 1,148,597; Aug. 3; Gaz. vol. 217; p. 41.
- Rotary-cylinder engine, Two-cycle. J. B. Ortholan. No. 1,147,540; July 20; Gaz. vol. 216; p. 938.
- Rotary drier. W. T. Perkins and R. R. Hickcox. No. 1,150,302; Aug. 17; Gaz. vol. 217; p. 814.
- Rotary drier. W. E. Prindle. No. 1,126,077; Jan. 26; Gaz. vol. 210; p. 1130.
- Rotary drill. F. E. Bocorselski. No. 1,131,991; Mar. 16; Gaz. vol. 212; p. 819.
- Rotary drill. K. K. Feinagle. No. 1,156,001; Oct. 5; Gaz. vol. 219; p. 234.
- Rotary drill. H. R. Hughes. No. 1,143,273; June 15; Gaz. vol. 215; p. 843.
- Rotary drill, Impact. W. H. Wakfer. No. 1,136,987; Apr. 27; Gaz. vol. 213; p. 1148.
- Rotary drill, Transverse-cutter. H. R. Hughes. No. 1,124,445; Jan. 12; Gaz. vol. 210; p. 478.
- Rotary engine. E. C. Allen and F. J. Mueller. No. 1,135,750; Apr. 13; Gaz. vol. 213; p. 633.
- Rotary engine. B. H. Alvey. No. 1,144,018; June 22; Gaz. vol. 215; p. 1125.
- Rotary engine. B. H. Alvey. No. 1,151,430; Aug. 24; Gaz. vol. 217; p. 1256.
- Rotary engine. E. N. Baty. No. 1,131,459; Mar. 9; Gaz. vol. 212; p. 595.
- Rotary engine. G. Beuoy. No. 1,127,723; Feb. 9; Gaz. vol. 211; p. 410.
- Rotary engine. G. Boltz. No. 1,151,562; Aug. 31; Gaz. vol. 217; p. 1350.
- Rotary engine. J. E. Christensen. No. 1,140,952; May 25; Gaz. vol. 214; p. 1244.
- Rotary engine. J. R. Crow. No. 1,133,937; Mar. 30; Gaz. vol. 212; p. 1606.
- Rotary engine. J. M. Evans. No. 1,158,467; Nov. 2; Gaz. vol. 220; p. 19.
- Rotary engine. H. Heinrich. No. 1,131,375; Mar. 9; Gaz. vol. 212; p. 565.
- Rotary engine. F. Hibner. No. 1,124,435; Jan. 12; Gaz. vol. 210; p. 474.
- Rotary engine. F. Hupe. No. 1,138,481; May 4; Gaz. vol. 214; p. 267.
- Rotary engine. C. Jacoby. No. 1,130,168; Mar. 2; Gaz. vol. 212; p. 113.
- Rotary engine. J. R. Jerman, Jr. No. 1,149,523; Aug. 10; Gaz. vol. 217; p. 472.
- Rotary engine. J. H. Jones. No. 1,126,224; Jan. 26; Gaz. vol. 210; p. 1183.
- Rotary engine. L. E. Keil. No. 1,136,344; Apr. 20; Gaz. vol. 213; p. 882.
- Rotary engine. J. D. Kneeder. No. 1,142,969; June 15; Gaz. vol. 215; p. 736.
- Rotary engine. I. C. Knowles. No. 1,158,238; Oct. 26; Gaz. vol. 219; p. 1136.
- Rotary engine. A. L. Lamar. No. 1,156,697; Oct. 12; Gaz. vol. 219; p. 503.

Alphabetical list of inventions—Continued.

- Rotary engine. D. D. Lester. No. 1,147,330; July 20; Gaz. vol. 216; p. 862.
- Rotary engine. F. C. Manuel. No. 1,131,148; Mar. 9; Gaz. vol. 212; p. 487.
- Rotary engine. W. H. McCrory. No. 1,149,528; Aug. 10; Gaz. vol. 217; p. 474.
- Rotary engine. T. G. McGonigle. No. 1,154,645; Sept. 28; Gaz. vol. 218; p. 901.
- Rotary engine. W. N. Mears. No. 1,145,161; July 6; Gaz. vol. 216; p. 65.
- Rotary engine. W. N. Mears. No. 1,152,535; Sept. 7; Gaz. vol. 218; p. 58.
- Rotary engine. A. Metzler. No. 1,152,034; Aug. 31; Gaz. vol. 217; p. 1513.
- Rotary engine. L. Might. No. 1,161,503; Nov. 23; Gaz. vol. 220; p. 1223.
- Rotary engine. J. Nielsen and P. C. Petersen. No. 1,127,668; Feb. 9; Gaz. vol. 211; p. 389.
- Rotary engine. V. Perazio. No. 1,130,839; Mar. 9; Gaz. vol. 212; p. 381.
- Rotary engine. C. Petersen. No. 1,155,092; Sept. 28; Gaz. vol. 218; p. 1054.
- Rotary engine. L. L. Reeves. No. 1,152,045; Aug. 31; Gaz. vol. 217; p. 1517.
- Rotary engine. F. J. Richards. No. 1,154,886; Sept. 28; Gaz. vol. 218; p. 981.
- Rotary engine. Z. T. Russell. No. 1,160,450; Nov. 16; Gaz. vol. 220; p. 801.
- Rotary engine. L. T. Shannon. No. 1,157,811; Oct. 26; Gaz. vol. 219; p. 986.
- Rotary engine. G. Silvestri. No. 1,134,357; Apr. 6; Gaz. vol. 213; p. 100.
- Rotary engine. S. D. Simmons. No. 1,125,599; Jan. 19; Gaz. vol. 210; p. 924.
- Rotary engine. J. E. Smith. No. 1,161,165; Nov. 23; Gaz. vol. 220; p. 1101.
- Rotary engine. L. G. Smith. No. 1,144,258; June 22; Gaz. vol. 215; p. 1211.
- Rotary engine. R. Smith. No. 1,158,325; Oct. 26; Gaz. vol. 219; p. 1167.
- Rotary engine. B. E. and M. E. Stevenson. No. 1,164,136; Dec. 14; Gaz. vol. 221; p. 537.
- Rotary engine. A. Stieb. No. 1,135,632; Apr. 13; Gaz. vol. 213; p. 592.
- Rotary engine. B. Stradovsky. No. 1,145,627; July 6; Gaz. vol. 216; p. 227.
- Rotary engine. H. H. Taylor. No. 1,127,111; Feb. 2; Gaz. vol. 211; p. 158.
- Rotary engine. G. T. Thompson. No. 1,131,750; Mar. 16; Gaz. vol. 212; p. 731.
- Rotary engine. W. H. Wellstead. No. 1,164,897; Dec. 21; Gaz. vol. 221; p. 841.
- Rotary engine. J. H. Whiting. No. 1,133,772; Mar. 30; Gaz. vol. 212; p. 1549.
- Rotary engine. J. H. Williams. No. 1,155,536; Oct. 5; Gaz. vol. 219; p. 74.
- Rotary engine. Hydrocarbon. A. N. Stewart. No. 1,131,803; Mar. 16; Gaz. vol. 212; p. 752.
- Rotary engine, Reversible. C. S. Rose. No. 1,163,559; Dec. 7; Gaz. vol. 221; p. 288.
- Rotary explosive-engine. E. L. Aurand. No. 1,146,545; July 13; Gaz. vol. 216; p. 571.
- Rotary explosive-engine. J. W. Dawson. No. 1,125,486; Jan. 19; Gaz. vol. 210; p. 884.
- Rotary explosive-engine. F. A. Miller. No. 1,153,169; Sept. 7; Gaz. vol. 218; p. 282.
- Rotary furnace. H. G. Akers. No. 1,130,953; Mar. 9; Gaz. vol. 212; p. 420.
- Rotary furnace or kiln. G. F. Downs. No. 1,151,574; Aug. 31; Gaz. vol. 217; p. 1354.
- Rotary gas-engine. C. J. Clark. No. 1,146,848; July 20; Gaz. vol. 216; p. 695.
- Rotary gas-engine. C. J. Clark. No. 1,155,794; Oct. 5; Gaz. vol. 219; p. 164.
- Rotary gas-engine. A. H. Foss. No. 1,131,922; Mar. 16; Gaz. vol. 212; p. 794.
- Rotary gas-engine. J. J. McTavish, Jr. No. 1,124,494; Jan. 12; Gaz. vol. 210; p. 496.
- Rotary gas-engine. C. W. Mitchell. No. 1,165,988; Dec. 28; Gaz. vol. 221; p. 1261.
- Rotary gas-engine. Two-cycle. E. Berliner. No. 1,165,059; Dec. 21; Gaz. vol. 221; p. 898.
- Rotary gasoline-engine. R. L. McIntyre. No. 1,151,489; Aug. 24; Gaz. vol. 217; p. 1277.
- Rotary heads, Self-centering support for. C. W. H. Blood. No. 1,166,408; Dec. 28; Gaz. vol. 221; p. 1414.
- Rotary internal-combustion engine. C. E. Broman. No. 1,140,870; May 25; Gaz. vol. 214; p. 1214.
- Rotary internal-combustion engine. G. R. Inshaw. No. 1,142,576; June 8; Gaz. vol. 215; p. 561.
- Rotary internal-combustion engine. F. H. Kilwinski. No. 1,134,869; Apr. 6; Gaz. vol. 213; p. 282.
- Rotary internal-combustion engine. J. F. Levering. No. 1,138,388; May 4; Gaz. vol. 214; p. 235.
- Rotary internal-combustion engine. G. H. Schuh. No. 1,163,956; Dec. 14; Gaz. vol. 221; p. 473.
- Rotary machine. J. L. Webb and C. C. Murdy. No. 1,139,937; May 18; Gaz. vol. 214; p. 853.
- Rotary machines, Apparatus for controlling. R. Proell. No. 1,130,431; Mar. 2; Gaz. vol. 212; p. 206.
- Rotary meter. J. W. Sims. No. 1,133,408; Mar. 30; Gaz. vol. 212; p. 1419.
- Rotary motor. D. Crayssac. No. 1,163,323; Dec. 7; Gaz. vol. 221; p. 205.
- Rotary motor. P. J. Darlington. No. 1,142,500; June 8; Gaz. vol. 215; p. 536.
- Rotary motor. P. J. Darlington. No. 1,161,928; Nov. 30; Gaz. vol. 220; p. 1417.
- Rotary motor. P. J. Darlington. No. 1,163,642; Dec. 14; Gaz. vol. 221; p. 361.
- Rotary motor. P. J. Darlington. No. 1,165,852; Dec. 28; Gaz. vol. 221; p. 1213.
- Rotary motor. E. E. Hauer. No. 1,124,613; Jan. 12; Gaz. vol. 210; p. 539.
- Rotary motor. E. E. Hauer. No. 1,124,614; Jan. 12; Gaz. vol. 210; p. 539.
- Rotary motor. E. E. Hauer. No. 1,124,734; Jan. 12; Gaz. vol. 210; p. 582.
- Rotary motor. E. E. Hauer. No. 1,147,238; July 20; Gaz. vol. 216; p. 832.
- Rotary motor. A. Peterson. No. 1,147,428; July 20; Gaz. vol. 216; p. 899.
- Rotary oscillatory engine. K. L. E. Mueller. No. 1,130,188; Mar. 2; Gaz. vol. 212; p. 121.
- Rotary-piston engine. C. R. Pratt. No. 1,158,554; Nov. 2; Gaz. vol. 220; p. 52.
- Rotary steam-engine. F. Hupe. No. 1,153,086; Sept. 7; Gaz. vol. 218; p. 255.
- Rotary steam-engine. E. U. Mack. No. 1,133,988; Mar. 30; Gaz. vol. 212; p. 1621.
- Rotary steam-engine, Reversible. A. Phillips. No. 1,142,726; June 8; Gaz. vol. 215; p. 609.
- Rotary switch, Key-operated. M. Guett. No. 1,138,752; May 11; Gaz. vol. 214; p. 399.
- Rotary-valve gas-engine. R. E. Meyer. No. 1,125,586; Jan. 19; Gaz. vol. 210; p. 919.
- Rotatable devices, Means for coupling. D. W. Sowers and H. D. Walker. No. 1,128,069; Feb. 9; Gaz. vol. 211; p. 534.
- Rotation, Indicator of speeds of. J. Masson. No. 1,135,827; Apr. 13; Gaz. vol. 213; p. 661.
- Rotor for motors. W. G. Viall. No. 1,126,594; Jan. 26; Gaz. vol. 210; p. 1318.
- Rough-rounder and channeling machine. L. E. Johnson. No. 1,125,550; Jan. 19; Gaz. vol. 210; p. 906.
- Roundabout. J. H. Bramkamp. No. 1,150,245; Aug. 17; Gaz. vol. 217; p. 796.
- Roundabout. J. H. Bramkamp. No. 1,150,246; Aug. 17; Gaz. vol. 217; p. 796.
- Roundabout. G. M. Reagen and L. A. Marks. No. 1,124,950; Jan. 12; Gaz. vol. 210; p. 658.
- Roundabout for aquatic use. R. L. Kohler. No. 1,156,151; Oct. 12; Gaz. vol. 219; p. 314.
- Roundhouse equipment. J. Riley. No. 1,162,882; Dec. 7; Gaz. vol. 221; p. 51.
- Roundhouse equipment. W. White. No. 1,131,192; Mar. 9; Gaz. vol. 212; p. 503.
- Roundtop-work construction. W. H. Bohner. No. 1,132,156; Mar. 16; Gaz. vol. 212; p. 879.
- Route-indicator. R. H. Johnson. No. 1,124,745; Jan. 12; Gaz. vol. 210; p. 586.
- Routing and die-sinking machine. H. Hills. No. 1,144,842; June 29; Gaz. vol. 215; p. 1439.
- Routing apparatus. F. G. Whittier. No. 1,125,237; Jan. 19; Gaz. vol. 210; p. 796.
- Routing apparatus. F. G. Whittier. No. 1,136,571; Apr. 20; Gaz. vol. 213; p. 965.
- Routing-machine. A. J. Foster. No. 1,154,752; Sept. 28; Gaz. vol. 218; p. 937.
- Routing-machines, Sight-glass for. J. W. Nelson. No. 1,148,397; July 27; Gaz. vol. 216; p. 1268.
- Roving-c reel. W. O. Aldrich. No. 1,156,451; Oct. 12; Gaz. vol. 219; p. 417.
- Roving-frame. T. O'Connell. No. 1,151,121; Aug. 24; Gaz. vol. 217; p. 1153.
- Roving-frames, Clearer-mounting for. H. C. Nelson. No. 1,149,209; Aug. 10; Gaz. vol. 217; p. 359.
- Rowboats, Anchor-block for. W. Sanders. No. 1,161,980; Nov. 30; Gaz. vol. 220; p. 1434.
- Rowing-craft intended for an amusement device. G. Sziklai. No. 1,155,381; Oct. 5; Gaz. vol. 219; p. 19.
- Rubber and production of vulcanized-rubber products, Vulcanization of. F. Hoffmann and K. Gottlob. No. 1,126,469; Jan. 26; Gaz. vol. 210; p. 1269.
- Rubber and rubber-like materials, Treating. R. B. Price. No. 1,158,843; Nov. 2; Gaz. vol. 220; p. 153.
- Rubber and steel wool, Producing compounds of. J. P. Crane. No. 1,152,935; Sept. 7; Gaz. vol. 218; p. 204.
- Rubber and the like, Fabric containing india. A. T. Collier. No. 1,149,897; Aug. 10; Gaz. vol. 217; p. 608.
- Rubber articles, Apparatus for making hollow. F. T. Roberts. No. 1,157,420; Oct. 19; Gaz. vol. 219; p. 790.
- Rubber articles, Making inflated. F. T. Roberts. No. 1,146,523; July 13; Gaz. vol. 216; p. 564.
- Rubber articles, Manufacture of. W. J. Eggers. No. 1,163,987; Dec. 14; Gaz. vol. 221; p. 483.
- Rubber articles, Manufacture of. T. Gare. No. 1,163,525; Dec. 7; Gaz. vol. 221; p. 276.
- Rubber articles, Manufacture of. R. D. Price. No. 1,162,397; Nov. 30; Gaz. vol. 220; p. 1579.
- Rubber articles, Manufacture of seamless. T. W. Miller. No. 1,152,372; Aug. 31; Gaz. vol. 217; p. 1631.
- Rubber articles, Marking. M. H. Clark. No. 1,161,614; Nov. 23; Gaz. vol. 220; p. 1261.

- Rubber articles, Mold for making. W. Eggers. (Reissue.) No. 1,13,988; Sept. 28; Gaz. vol. 218; p. 1132.
- Rubber bands, Manufacture of. T. W. Miller. No. 1,155,325; Sept. 28; Gaz. vol. 218; p. 1130.
- Rubber-bead forming and covering apparatus. J. R. Gammeter. No. 1,137,127; Apr. 27; Gaz. vol. 213; p. 1200.
- Rubber combined with ebonite, Manufacturing continuous lengths of vulcanized. T. Gare. No. 1,146,699; July 13; Gaz. vol. 216; p. 623.
- Rubber-covered metal article and making the same. L. Daft. No. 1,124,302; Jan. 12; Gaz. vol. 210; p. 426.
- Rubber-dam clamp. J. W. Ivory. No. 1,159,496; Nov. 9; Gaz. vol. 220; p. 411.
- Rubber-dipped goods, Heated form for. C. S. Williams. No. 1,163,053; Dec. 7; Gaz. vol. 221; p. 111.
- Rubber, Extraction of. D. Vecchini. No. 1,159,137; Nov. 2; Gaz. vol. 220; p. 251.
- Rubber footwear, Heel construction for. F. E. Payne. No. 1,161,879; Nov. 30; Gaz. vol. 220; p. 1398.
- Rubber footwear, Manufacturing. W. E. Piper. No. 1,158,389; Oct. 26; Gaz. vol. 219; p. 1190.
- Rubber footwear, Pressure-applying apparatus for. C. J. Randall. No. 1,158,390; Oct. 26; Gaz. vol. 219; p. 1190.
- Rubber, Forming hollow articles of. F. A. Cigal. No. 1,139,341; May 11; Gaz. vol. 214; p. 605.
- Rubber goods, Eliminating porosity of. W. E. Piper. No. 1,164,860; Dec. 21; Gaz. vol. 221; p. 830.
- Rubber heel. G. K. Maltby. No. 1,159,972; Nov. 9; Gaz. vol. 220; p. 583.
- Rubber heel for shoes. G. Gambino. No. 1,159,758; Nov. 9; Gaz. vol. 220; p. 506.
- Rubber-like substances from alcohols, Production of. D. Spence and A. P. Clark. No. 1,161,904; Nov. 30; Gaz. vol. 220; p. 1408.
- Rubber, Machine for preparing. J. E. Pointon. No. 1,138,410; May 4; Gaz. vol. 214; p. 243.
- Rubber nipples, Machine for forming rolls on. J. L. Mahoney. No. 1,154,191; Sept. 21; Gaz. vol. 218; p. 715.
- Rubber-preservative composition. S. T. Smith. No. 1,156,561; Oct. 12; Gaz. vol. 219; p. 456.
- Rubber, Preserving. I. D. Jewett. No. 1,130,736; Mar. 9; Gaz. vol. 212; p. 347.
- Rubber products, Making vulcanized. R. B. Price. No. 1,152,838; Sept. 7; Gaz. vol. 218; p. 168.
- Rubber, Reclaiming. H. W. Kugler. No. 1,124,920; Jan. 12; Gaz. vol. 210; p. 647.
- Rubber, Reclaiming. O. A. Wheeler. No. 1,135,236; Apr. 13; Gaz. vol. 213; p. 452.
- Rubber, Reclaiming old or waste vulcanized india. T. Gare. No. 1,133,952; Mar. 30; Gaz. vol. 212; p. 1611.
- Rubber sole. F. Boyle. No. 1,137,724; Apr. 27; Gaz. vol. 213; p. 1407.
- Rubber-sole-rolling machine. E. E. Winkley. No. 1,124,190; Jan. 5; Gaz. vol. 210; p. 338.
- Rubber soles, Apparatus for applying. W. E. Hemenover. No. 1,160,983; Nov. 16; Gaz. vol. 220; p. 992.
- Rubber stock, Production of sheeted. C. H. Roper. No. 1,131,275; Mar. 9; Gaz. vol. 212; p. 531.
- Rubber substance and making same. P. Schildrowitz and H. A. Goldsborough. No. 1,156,184; Oct. 12; Gaz. vol. 219; p. 324.
- Rubber-treating apparatus. L. C. Warner. No. 1,125,609; Jan. 19; Gaz. vol. 210; p. 928.
- Rubber, Vulcanizing. P. I. Murrill. No. 1,159,327; Nov. 2; Gaz. vol. 220; p. 319.
- Rubber, Vulcanizing. A. D. Warner and R. B. Price. No. 1,163,050; Dec. 7; Gaz. vol. 221; p. 110.
- Rubber, Vulcanizing and attaching. F. Moench. No. 1,157,572; Oct. 19; Gaz. vol. 219; p. 839.
- Rubber waste, Apparatus for use in reclaiming vulcanized. C. S. Heller. (Reissue.) No. 14,027; Dec. 7; Gaz. vol. 221; p. 315.
- Rubber water-bottles, Manufacture of. G. E. Hall. No. 1,148,226; July 27; Gaz. vol. 216; p. 1206.
- Rubberized fabric and rubber tire. M. A. Dees. No. 1,130,578; Mar. 2; Gaz. vol. 212; p. 259.
- Rubberized-fabric tubes or strips, Apparatus for forming. J. T. Lister. No. 1,147,254; July 20; Gaz. vol. 216; p. 838.
- Rubberizing fabric. F. A. Seiberling. No. 1,133,322; Mar. 30; Gaz. vol. 212; p. 1387.
- Rubbing device. C. W. Sherman. No. 1,152,126; Aug. 31; Gaz. vol. 217; p. 1545.
- Rubbing or polishing machine. P. Baukin. No. 1,135,491; Apr. 13; Gaz. vol. 213; p. 542.
- Rubbing-post. C. Goeden. No. 1,138,553; May 4; Gaz. vol. 214; p. 291.
- Rubbing-post. E. G. Hayne. No. 1,146,069; July 13; Gaz. vol. 216; p. 403.
- Rubbing-post. G. J. Page. No. 1,157,801; Oct. 26; Gaz. vol. 219; p. 983.
- Rudder, Emergency bow. T. Q. Quartermaine. No. 1,128,508; Feb. 16; Gaz. vol. 211; p. 735.
- Rudder for submarine vessels, Diving. C. Laurenti. No. 1,125,567; Jan. 19; Gaz. vol. 210; p. 913.
- Ruffling and sewing machine. N. E. Hanson. No. 1,143,903; June 22; Gaz. vol. 215; p. 1084.
- Rug and carpet making machine. R. W. Silversides. No. 1,135,408; Apr. 13; Gaz. vol. 213; p. 512.
- Rug-fastening device. H. A. Eckas. No. 1,155,554; Oct. 5; Gaz. vol. 219; p. 80.
- Rug-hanger. J. S. Griffin. No. 1,139,273; May 11; Gaz. vol. 214; p. 583.
- Rug-retainer. B. F. Forsyth. No. 1,137,748; May 4; Gaz. vol. 214; p. 9.
- Rug-seams, Machine for applying reinforcing means to. H. E. Terry. No. 1,137,243; Apr. 27; Gaz. vol. 213; p. 1242.
- Rugs or other articles, Device for holding. H. L. Weigel. No. 1,161,559; Nov. 23; Gaz. vol. 220; p. 1243.
- Rugs, Seam for. H. E. Terry. No. 1,136,380; Apr. 20; Gaz. vol. 213; p. 896.
- Rule. D. L. Kane. No. 1,130,610; Mar. 2; Gaz. vol. 212; p. 270.
- Rule. H. E. Lee. No. 1,150,276; Aug. 17; Gaz. vol. 217; p. 806.
- Rule. H. E. Lee. No. 1,150,277; Aug. 17; Gaz. vol. 217; p. 806.
- Rule. J. M. Middleton. No. 1,160,432; Nov. 16; Gaz. vol. 220; p. 795.
- Rule and drafting instrument, Combination. L. G. Tucker. No. 1,145,719; July 6; Gaz. vol. 216; p. 261.
- Rule and level, Plumb. J. E. Moore. No. 1,146,087; July 13; Gaz. vol. 216; p. 410.
- Rule, Chart. R. T. Gould. No. 1,124,421; Jan. 12; Gaz. vol. 210; p. 469.
- Rule, Computing. E. D. N. Schulte. No. 1,145,706; July 6; Gaz. vol. 216; p. 257.
- Rule, Flexible. A. E. Hegardt. No. 1,147,722; July 27; Gaz. vol. 216; p. 1028.
- Rule for type-slugs. H. A. Spurgeon, A. T. Hunt, and W. G. Baker. No. 1,139,594; May 18; Gaz. vol. 214; p. 731.
- Rule-holder. Z. Riddle and N. Ashbaugh. No. 1,125,718; Jan. 19; Gaz. vol. 210; p. 969.
- Rule, Printer's column. W. Loveland and H. E. Sloan. No. 1,123,772; Jan. 5; Gaz. vol. 210; p. 197.
- Rule runner, Slide. W. L. E. Keuffel. No. 1,150,771; Aug. 17; Gaz. vol. 217; p. 976.
- Rule, Slide. C. F. Dieckmann. No. 1,154,619; Sept. 28; Gaz. vol. 218; p. 892.
- Rule, Slide. F. C. Farmar. No. 1,123,507; Jan. 5; Gaz. vol. 210; p. 106.
- Rule, Slide. C. A. Gilson. No. 1,157,526; Oct. 19; Gaz. vol. 219; p. 826.
- Rule, straight-edge, and level, Combination folding plumb. A. G. Berkebile. No. 1,163,203; Dec. 7; Gaz. vol. 221; p. 164.
- Rule, Tailor's. L. E. Barnes. No. 1,158,425; Nov. 2; Gaz. vol. 220; p. 4.
- Rules, Open-face runner for slide. C. F. Dieckmann. No. 1,158,459; Nov. 2; Gaz. vol. 220; p. 17.
- Rules, Substitute for printers' brass. A. G. Stevenson. No. 1,135,145; Apr. 13; Gaz. vol. 213; p. 424.
- Ruler. R. S. Pullen. No. 1,147,434; July 20; Gaz. vol. 216; p. 901.
- Ruler and postal scale, Combined. C. Cleophas. No. 1,126,398; Jan. 26; Gaz. vol. 210; p. 1244.
- Ruler, Parallel. C. C. Pfeiffer. No. 1,141,483; June 1; Gaz. vol. 215; p. 142.
- Ruling device. F. Graf. No. 1,163,527; Dec. 7; Gaz. vol. 221; p. 277.
- Ruling-machine. J. Bailey. No. 1,157,361; Oct. 19; Gaz. vol. 219; p. 767.
- Ruling-machine. G. A. Zeiser. No. 1,138,716; May 11; Gaz. vol. 214; p. 386.
- Ruling-machine attachment. E. Schulz. No. 1,149,543; Aug. 10; Gaz. vol. 217; p. 479.
- Ruling machine, Paper. M. M. Kandle. No. 1,127,014; Feb. 2; Gaz. vol. 211; p. 124.
- Runabout-seat. W. A. Burket. No. 1,135,761; Apr. 13; Gaz. vol. 213; p. 637.
- Runaway-checking device. B. Gotlieb. No. 1,159,212; Nov. 2; Gaz. vol. 220; p. 279.
- Running-board bracket. W. E. Fowler, Sr. No. 1,140,147; May 18; Gaz. vol. 214; p. 928.
- Running-board mat. H. L. Hussey. No. 1,130,292; Mar. 2; Gaz. vol. 212; p. 157.
- Running-board mat. M. P. McLaughlin. No. 1,157,631; Oct. 19; Gaz. vol. 219; p. 858.
- Running-board mat. F. G. Ruddiman. No. 1,137,354; Apr. 27; Gaz. vol. 213; p. 1283.
- Running-board saddle. C. C. Murphy. No. 1,145,207; July 6; Gaz. vol. 216; p. 81.
- Running-gear. W. E. Wagner. No. 1,124,077; Jan. 5; Gaz. vol. 210; p. 209.
- Running-gear construction and transmission device. J. C. Noble. No. 1,159,703; Nov. 9; Gaz. vol. 220; p. 485.
- Rupture appliance. G. D. Cooper. No. 1,156,979; Oct. 19; Gaz. vol. 219; p. 632.
- Saccharification and fermentation of amylaceous substances. A. Molhant. No. 1,134,281; Apr. 6; Gaz. vol. 213; p. 73.
- Sack. B. P. Bushnell. No. 1,149,337; Aug. 10; Gaz. vol. 217; p. 407.
- Sack. T. D. Katayama. No. 1,124,140; Jan. 5; Gaz. vol. 210; p. 320.
- Sack, Collapsible-frame parcel. T. F. Fay. No. 1,155,475; Oct. 5; Gaz. vol. 219; p. 53.
- Sack-holder. H. L. Borstelman. No. 1,156,744; Oct. 12; Gaz. vol. 219; p. 520.

Alphabetical list of inventions—Continued.

- Sack-holder. M. E. Erickson and A. W. Mogren. No. 1,145,297; July 6; Gaz. vol. 216; p. 112.
- Sack-holder. J. W. Orsburn. No. 1,133,395; Mar. 30; Gaz. vol. 212; p. 1414.
- Sack-holding and weighing device. L. Garnier. No. 1,146,061; July 13; Gaz. vol. 216; p. 400.
- Sack-holding attachment. H. I. Moore. No. 1,132,600; Mar. 23; Gaz. vol. 212; p. 1089.
- Sack-stretching machine. A. V. Jensen. No. 1,156,482; Oct. 12; Gaz. vol. 219; p. 428.
- Sack-tie. C. Paridy. No. 1,136,259; Apr. 20; Gaz. vol. 213; p. 853.
- Sack-turning machine. J. H. Colton. No. 1,159,649; Nov. 9; Gaz. vol. 220; p. 465.
- Sacks and the like, Method of and apparatus for mending or repairing. F. Wever and K. Maier. No. 1,145,639; July 6; Gaz. vol. 216; p. 232.
- Sad-iron. C. E. Adamson. No. 1,128,567; Feb. 16; Gaz. vol. 211; p. 755.
- Sad-iron. A. E. Bronson, Jr. No. 1,123,840; Jan. 5; Gaz. vol. 210; p. 218.
- Sad-iron. G. B. Child and C. Munzner. No. 1,143,507; June 15; Gaz. vol. 215; p. 924.
- Sad-iron. H. W. Foster and L. C. Hill. No. 1,149,748; Aug. 10; Gaz. vol. 217; p. 554.
- Sad-iron. D. I. Garretson. No. 1,146,863; July 20; Gaz. vol. 216; p. 699.
- Sad-iron. R. T. Gillis. No. 1,128,242; Feb. 9; Gaz. vol. 211; p. 592.
- Sad-iron. S. Goldstein. No. 1,163,528; Dec. 7; Gaz. vol. 221; p. 277.
- Sad-iron. R. W. Kelley. No. 1,155,424; Oct. 5; Gaz. vol. 219; p. 35.
- Sad-iron. H. W. O'Dowd. No. 1,134,552; Apr. 6; Gaz. vol. 213; p. 171.
- Sad-iron. T. D. Palmer. No. 1,141,903; June 1; Gaz. vol. 215; p. 287.
- Sad-iron. L. A. Powell. No. 1,146,650; July 13; Gaz. vol. 216; p. 607.
- Sad-iron. J. Poretz and B. Cohen. No. 1,150,703; Aug. 17; Gaz. vol. 217; p. 953.
- Sad-iron. E. E. Rose. No. 1,148,627; Aug. 3; Gaz. vol. 217; p. 52.
- Sad-iron. E. E. Rose. No. 1,166,154; Dec. 28; Gaz. vol. 221; p. 1322.
- Sad-iron. G. T. Rosengren. No. 1,142,984; June 15; Gaz. vol. 215; p. 742.
- Sad-iron. M. Sunshine. No. 1,124,074; Jan. 5; Gaz. vol. 210; p. 297.
- Sad-iron-balancing mechanism. K. G. Boyajian. No. 1,127,397; Feb. 9; Gaz. vol. 211; p. 296.
- Sad-iron, Electric. W. A. Braun. No. 1,138,841; May 11; Gaz. vol. 214; p. 432.
- Sad-iron, Electric. E. E. Rose. No. 1,144,614; June 29; Gaz. vol. 215; p. 1359.
- Sad-iron, Electric. H. Rosenthal. No. 1,150,968; Aug. 24; Gaz. vol. 217; p. 1102.
- Sad-iron beater. J. P. Beck. No. 1,132,549; Mar. 23; Gaz. vol. 212; p. 1070.
- Sad-iron, Self-heating. G. B. Hudson and W. P. Bope. No. 1,136,338; Apr. 20; Gaz. vol. 213; p. 880.
- Sad-iron stand. S. A. Fletcher. No. 1,140,146; May 18; Gaz. vol. 214; p. 928.
- Sad-iron stand. F. Thornton, Jr. No. 1,161,167; Nov. 23; Gaz. vol. 220; p. 1103.
- Sad-iron stand. F. B. Wolfer and H. Sampson. No. 1,160,804; Nov. 18; Gaz. vol. 220; p. 930.
- Sad-iron support. K. Ebner. No. 1,138,176; May 4; Gaz. vol. 214; p. 160.
- Sad-iron support. J. F. Lamb. No. 1,139,688; May 18; Gaz. vol. 214; p. 765.
- Saddle. F. C. Beal. No. 1,155,465; Oct. 5; Gaz. vol. 219; p. 49.
- Saddle. A. F. Schick. No. 1,159,715; Nov. 9; Gaz. vol. 220; p. 490.
- Saddle-bag. M. E. Mease. No. 1,136,691; Apr. 20; Gaz. vol. 213; p. 1006.
- Saddle for feed-rolls, Spring. E. J. Vales. No. 1,130,220; Mar. 2; Gaz. vol. 212; p. 132.
- Saddle, Harness. F. G. Hoover. No. 1,133,560; Mar. 30; Gaz. vol. 212; p. 1473.
- Saddle, Harness. C. Steinbach. No. 1,124,181; Jan. 5; Gaz. vol. 210; p. 335.
- Saddle lubricator, Top-roll. E. Dixon. No. 1,145,572; July 6; Gaz. vol. 216; p. 208.
- Saddle-pad. J. H. Wilson. No. 1,128,086; Feb. 9; Gaz. vol. 211; p. 540.
- Saddle-plate, Reversible. E. E. Vanderhoef. No. 1,156,115; Oct. 12; Gaz. vol. 219; p. 301.
- Saddle-press. H. L. Wendorf. No. 1,140,551; May 25; Gaz. vol. 214; p. 1105.
- Saddle, Riding. H. W. Downing. No. 1,154,003; Sept. 21; Gaz. vol. 218; p. 651.
- Saddle-rigging. W. C. Lawrence. No. 1,156,698; Oct. 12; Gaz. vol. 219; p. 504.
- Saddle, Running-board. W. E. Fowler, Sr. No. 1,135,514; Apr. 13; Gaz. vol. 213; p. 550.
- Saddle, Running-board. C. C. Murphy. No. 1,133,494; Mar. 30; Gaz. vol. 212; p. 1448.
- Saddles, Girthing means for riding. J. B. Gathright. No. 1,145,477; July 6; Gaz. vol. 216; p. 177.
- Saddles, Line-holding attachment for harness. L. De Tour. No. 1,164,173; Dec. 14; Gaz. vol. 221; p. 548.
- Safe. J. Hermann. No. 1,123,291; Jan. 5; Gaz. vol. 210; p. 30.
- Safe. B. L. Martin. No. 1,162,631; Nov. 30; Gaz. vol. 220; p. 1656.
- Safe. P. A. Meehan. No. 1,164,951; Dec. 21; Gaz. vol. 221; p. 861.
- Safe. M. Mosler and C. Bartels. No. 1,157,412; Oct. 19; Gaz. vol. 219; p. 786.
- Safe auxiliary door. H. C. Fink. No. 1,164,488; Dec. 14; Gaz. vol. 221; p. 659.
- Safe-blowing, Device for preventing successful. C. B. Woodard. No. 1,146,226; July 13; Gaz. vol. 216; p. 458.
- Safe construction. M. Mosler. No. 1,134,216; Apr. 6; Gaz. vol. 213; p. 49.
- Safe construction. M. Mosler and C. Bartels. No. 1,126,830; Feb. 2; Gaz. vol. 211; p. 60.
- Safe construction. M. Mosler and C. Bartels. No. 1,136,254; Apr. 20; Gaz. vol. 213; p. 851.
- Safe construction. M. Mosler and C. Bartels. No. 1,140,524; May 25; Gaz. vol. 214; p. 1096.
- Safe construction. M. Mosler and C. Bartels. No. 1,153,329; Sept. 14; Gaz. vol. 218; p. 378.
- Safe construction. M. Mosler and C. Bartels. No. 1,157,027; Oct. 19; Gaz. vol. 219; p. 649.
- Safe for toilet-articles. S. Elbion. No. 1,132,463; Mar. 16; Gaz. vol. 212; p. 991.
- Safe-lock mechanism. B. F. Klohs. No. 1,145,371; July 6; Gaz. vol. 216; p. 137.
- Safe-locking device. A. P. Haustetter. No. 1,132,089; Mar. 16; Gaz. vol. 212; p. 854.
- Safe, Ocean floating. M. Nanni and G. Bertolini. No. 1,166,145; Dec. 28; Gaz. vol. 221; p. 1318.
- Safe or vault joint. H. C. von Philip. No. 1,157,469; Oct. 19; Gaz. vol. 219; p. 806.
- Safe, Sheet-metal. P. S. Millice and M. Mueller. No. 1,150,613; Aug. 17; Gaz. vol. 217; p. 922.
- Safe, Silverware. C. E. Coleston. No. 1,161,189; Nov. 23; Gaz. vol. 220; p. 1111.
- Safety appliance. A. Beck. No. 1,148,820; Aug. 3; Gaz. vol. 217; p. 121.
- Safety appliance. M. A. Jones. No. 1,156,082; Oct. 12; Gaz. vol. 219; p. 290.
- Safety appliance. F. Ross. No. 1,163,772; Dec. 14; Gaz. vol. 221; p. 409.
- Safety-brake. L. M. Doddridge. No. 1,124,216; Jan. 5; Gaz. vol. 210; p. 348.
- Safety-brake, Automatic. J. Geitus. No. 1,147,936; July 27; Gaz. vol. 216; p. 1103.
- Safety choker-hook. F. Powers. No. 1,144,430; June 29; Gaz. vol. 215; p. 1299.
- Safety clasp or catch. G. W. Henry. No. 1,152,892; Sept. 7; Gaz. vol. 218; p. 189.
- Safety-coupling. R. T. Hazelton. No. 1,141,461; June 1; Gaz. vol. 215; p. 134.
- Safety-deposit apparatus. W. S. Kauffman. No. 1,164,097; Dec. 14; Gaz. vol. 221; p. 522.
- Safety-deposit-box lock. E. M. Benham. No. 1,148,282; July 27; Gaz. vol. 216; p. 1227.
- Safety device. W. D. Baldwin and G. John. No. 1,159,563; Nov. 9; Gaz. vol. 220; p. 435.
- Safety device. C. F. Becker. No. 1,129,269; Feb. 23; Gaz. vol. 211; p. 1036.
- Safety device. M. J. Bottinelli. No. 1,139,839; May 18; Gaz. vol. 214; p. 818.
- Safety device. M. R. Hutchison. No. 1,130,977; Mar. 9; Gaz. vol. 212; p. 429.
- Safety device. J. Paulauski. No. 1,136,710; Apr. 20; Gaz. vol. 213; p. 1014.
- Safety device. B. F. Rindfleisch. No. 1,133,318; Mar. 30; Gaz. vol. 212; p. 1385.
- Safety device. C. F. Root. No. 1,136,369; Apr. 20; Gaz. vol. 213; p. 892.
- Safety device. F. P. Withers. No. 1,141,674; June 1; Gaz. vol. 215; p. 209.
- Safety device, Automatic. E. J. Laclair. No. 1,133,480; Mar. 30; Gaz. vol. 212; p. 1442.
- Safety device, Automatic. C. P. Thomas and W. McQueen. No. 1,124,185; Jan. 5; Gaz. vol. 210; p. 336.
- Safety-elevator. A. J. Jarnig. No. 1,159,679; Nov. 9; Gaz. vol. 220; p. 476.
- Safety-fender. F. E. Bellows. No. 1,130,056; Mar. 2; Gaz. vol. 212; p. 75.
- Safety-hook. C. Kimbark. No. 1,159,501; Nov. 9; Gaz. vol. 220; p. 413.
- Safety-hook. L. D. Pearce. No. 1,144,377; June 29; Gaz. vol. 215; p. 1280.
- Safety-joint. H. W. Peters. No. 1,148,855; Aug. 3; Gaz. vol. 217; p. 132.
- Safety limit-switch. H. A. Everett. No. 1,138,366; May 4; Gaz. vol. 214; p. 228.
- Safety-lock. C. Monstroth. No. 1,127,272; Feb. 2; Gaz. vol. 211; p. 214.
- Safety-lock. P. Olsen. No. 1,131,542; Mar. 9; Gaz. vol. 212; p. 623.
- Safety-lock for door-catches. H. L. Mentz. No. 1,147,530; July 20; Gaz. vol. 216; p. 934.
- Safety-lock for doors, Automatic. J. W. Hulme. (Re-issue.) No. 13,978; Sept. 14; Gaz. vol. 218; p. 575.

Alphabetical list of inventions—Continued.

- Safety operating mechanism. E. M. Hawkins. No. 1,133,025; Mar. 23; Gaz. vol. 212; p. 1247.
- Safety-pin. F. E. De Long. No. 1,145,003; July 6; Gaz. vol. 216; p. 8.
- Safety-pin. C. E. Faulks. No. 1,141,952; June 8; Gaz. vol. 215; p. 340.
- Safety-pin. N. Hunsberger. No. 1,135,692; Apr. 13; Gaz. vol. 213; p. 614.
- Safety-pin. G. M. Lane. No. 1,144,715; June 29; Gaz. vol. 215; p. 1395.
- Safety-pin. S. M. McConnell. No. 1,134,472; Apr. 6; Gaz. vol. 213; p. 142.
- Safety-pin-anchoring attachment. W. S. Hunkins. No. 1,162,166; Nov. 30; Gaz. vol. 220; p. 1499.
- Safety-pin catch. T. S. Bennett. No. 1,139,836; May 18; Gaz. vol. 214; p. 817.
- Safety-pin machine. G. E. Harcke. No. 1,126,202; Jan. 26; Gaz. vol. 210; p. 1176.
- Safety-pin shields. Machine for feeding. W. A. Courtland. No. 1,141,105; June 1; Gaz. vol. 215; p. 6.
- Safety-pins, &c. Machine for carding. H. B. Church. No. 1,133,363; Mar. 30; Gaz. vol. 212; p. 1402.
- Safety-switch for electric train controls. R. Hamlen. No. 1,138,287; May 4; Gaz. vol. 214; p. 198.
- Safety-tie. J. M. Halfpenny. No. 1,146,248; July 13; Gaz. vol. 216; p. 466.
- Salad-dressing container. Q. Santicola. No. 1,147,554; July 20; Gaz. vol. 216; p. 942.
- Saliva-ejecting apparatus. Mouthpiece for. W. P. De Witt. No. 1,155,342; Oct. 5; Gaz. vol. 219; p. 6.
- Saliva-ejector. M. H. Plata. No. 1,147,341; July 20; Gaz. vol. 216; p. 866.
- Saliva-ejector. L. Van Orden. No. 1,155,020; Sept. 28; Gaz. vol. 218; p. 1027.
- Salt and pepper shaker. C. A. Conger. No. 1,154,000; Sept. 21; Gaz. vol. 218; p. 650.
- Salt. Apparatus for the manufacture of. H. Frasch. No. 1,125,998; Jan. 26; Gaz. vol. 210; p. 1099.
- Salt-cellar and pepper-box. Combination. T. Nomoto. No. 1,164,347; Dec. 14; Gaz. vol. 221; p. 623.
- Salt. Damp-proofing. J. D. Miller. No. 1,140,995; May 25; Gaz. vol. 214; p. 1260.
- Salt from brine. Recovering. F. J. Wood. No. 1,152,777; Sept. 7; Gaz. vol. 218; p. 145.
- Salt. Grading, harvesting, and recovering. A. Schilling. No. 1,160,533; Nov. 16; Gaz. vol. 220; p. 831.
- Salt. Manufacture of. C. L. Weil. No. 1,141,999; June 8; Gaz. vol. 215; p. 357.
- Salt-shaker. F. Glesenhäus. No. 1,157,624; Oct. 19; Gaz. vol. 219; p. 856.
- Salt-shaker. F. C. Long. No. 1,161,489; Nov. 23; Gaz. vol. 220; p. 1218.
- Salt-shaker top. H. W. Comstock. No. 1,127,735; Feb. 9; Gaz. vol. 211; p. 415.
- Salt-stand. C. R. West. No. 1,139,147; May 11; Gaz. vol. 214; p. 541.
- Salts. Manufacture of Burton. R. Wahl. No. 1,156,448; Oct. 12; Gaz. vol. 219; p. 416.
- Salts of dimethyl-P-aminophenol and P-oxyphenyl-trimethyl-ammonium. J. Lagutt. No. 1,144,141; June 22; Gaz. vol. 215; p. 1170.
- Salts of potassium and aluminum and fixed nitrogen compounds. Producing. S. Peacock. No. 1,129,721; Feb. 23; Gaz. vol. 211; p. 1191.
- Salts of potassium and aluminum. Producing soluble. M. F. Coolbaugh and E. H. Quinney. No. 1,125,007; Jan. 12; Gaz. vol. 210; p. 679.
- Salts of potassium and aluminum. Producing soluble. M. F. Coolbaugh and E. H. Quinney. No. 1,165,154; Dec. 21; Gaz. vol. 221; p. 933.
- Sample-case for salesmen. F. G. Dyer. No. 1,126,425; Jan. 26; Gaz. vol. 210; p. 1254.
- Sample-can. C. G. Summers, Jr. No. 1,161,012; Nov. 16; Gaz. vol. 220; p. 1002.
- Sampler. F. J. Colby. No. 1,133,933; Mar. 30; Gaz. vol. 212; p. 1604.
- Sampling apparatus. A. G. McGregor. No. 1,155,670; Oct. 5; Gaz. vol. 219; p. 120.
- Sampling device. Automatic. R. Hamilton. No. 1,151,682; Aug. 31; Gaz. vol. 217; p. 1390.
- Sand and gravel. Device for separating, washing, and grading. W. C. Thompson. No. 1,149,989; Aug. 10; Gaz. vol. 217; p. 642.
- Sand-band. G. W. Hart. No. 1,131,510; Mar. 9; Gaz. vol. 212; p. 613.
- Sand-blast. E. D. O'Brien. No. 1,164,389; Dec. 14; Gaz. vol. 221; p. 624.
- Sand bricks and the like. Device for making damp-. A. E. Nicklin. No. 1,140,391; May 25; Gaz. vol. 214; p. 1047.
- Sand-compressing means for making molds. W. C. Lang. No. 1,137,638; Apr. 27; Gaz. vol. 213; p. 1380.
- Sand cutting and mixing apparatus. V. E. Minich. No. 1,139,362; May 11; Gaz. vol. 214; p. 613.
- Sand-drier. J. C. Schaffer. No. 1,134,762; Apr. 6; Gaz. vol. 213; p. 248.
- Sand-drying apparatus. J. C. Davis, F. C. Henke, and W. H. Hawley. No. 1,151,067; Aug. 31; Gaz. vol. 217; p. 1385.
- Sand-handling apparatus. H. P. Macdonald. No. 1,127,471; Feb. 9; Gaz. vol. 211; p. 324.
- Sand-handling machine. H. P. Macdonald and H. C. Parker. No. 1,127,472; Feb. 9; Gaz. vol. 211; p. 325.
- Sand-milling apparatus. E. B. Manley. No. 1,160,632; Nov. 16; Gaz. vol. 220; p. 868.
- Sand mold and treating the same. C. B. Jacobs. No. 1,153,230; Sept. 14; Gaz. vol. 218; p. 343.
- Sand-mold-making machine. J. M. Iannone. No. 1,158,918; Nov. 2; Gaz. vol. 220; p. 178.
- Sand or lawn chair. E. D. Adams. No. 1,162,540; Nov. 30; Gaz. vol. 220; p. 1628.
- Sand pipe and valve for locomotives or cars. W. H. Wilcox. No. 1,164,562; Dec. 14; Gaz. vol. 221; p. 684.
- Sand-reclaimer. H. L. Allen. No. 1,124,830; Jan. 12; Gaz. vol. 210; p. 616.
- Sand-riddling machine. F. J. Hull. No. 1,132,271; Mar. 16; Gaz. vol. 212; p. 922.
- Sand, stone, grit, or other materials. Means for drying and heating. F. M. Andrews. No. 1,147,203; July 20; Gaz. vol. 216; p. 821.
- Sand-strip. C. O. Wood. No. 1,126,607; Jan. 26; Gaz. vol. 210; p. 1322.
- Sand-trap. C. N. Allerdling. No. 1,150,480; Aug. 17; Gaz. vol. 217; p. 876.
- Sand-trap. E. J. Yard and W. E. Davis. No. 1,147,587; July 20; Gaz. vol. 216; p. 954.
- Sand-trap. W. H. White. No. 1,164,899; Dec. 21; Gaz. vol. 221; p. 842.
- Sand washing and grading apparatus. W. E. Gregg. No. 1,133,721; Mar. 30; Gaz. vol. 212; p. 1532.
- Sander and crystallizing-machine. Steam. S. A. Hallberg. No. 1,162,603; Nov. 30; Gaz. vol. 220; p. 1647.
- Sander. Pneumatic. A. S. Conti. No. 1,160,852; Nov. 16; Gaz. vol. 220; p. 946.
- Sanding and polishing machine. J. C. Prims and W. F. Smith. No. 1,124,657; Jan. 12; Gaz. vol. 210; p. 556.
- Sanding device. E. H. Dewson. No. 1,131,217; Mar. 9; Gaz. vol. 212; p. 511.
- Sanding device. G. H. Lyne. No. 1,135,306; Apr. 13; Gaz. vol. 213; p. 477.
- Sanding device. W. V. Turner. No. 1,126,918; Feb. 2; Gaz. vol. 211; p. 89.
- Sanding-machine. J. W. Kroeze. No. 1,134,085; Mar. 30; Gaz. vol. 212; p. 1655.
- Sanding-machine. A. S. Spaulding. No. 1,142,063; June 8; Gaz. vol. 215; p. 380.
- Sandpaper. W. D. Smith. No. 1,146,359; July 13; Gaz. vol. 216; p. 503.
- Sandpaper-gripper. L. H. Fowler. No. 1,145,134; July 6; Gaz. vol. 216; p. 56.
- Sandpapering-machine. E. F. Beugler. No. 1,153,479; Sept. 14; Gaz. vol. 218; p. 433.
- Sandpapering-machine. A. H. Matteson. No. 1,159,696; Nov. 9; Gaz. vol. 220; p. 482.
- Sandal. C. B. Slocum. No. 1,142,854; June 15; Gaz. vol. 215; p. 695.
- Sandwich-machine. E. L. A. Savy. No. 1,160,532; Nov. 16; Gaz. vol. 220; p. 831.
- Sanitary and self-cleaning comb. T. C. Bamfield and G. Richter. No. 1,131,592; Mar. 9; Gaz. vol. 212; p. 640.
- Sanitary appliance. J. T. Bluff. No. 1,124,103; Jan. 5; Gaz. vol. 210; p. 307.
- Sanitary closet. W. D. Alford. No. 1,127,151; Feb. 2; Gaz. vol. 211; p. 172.
- Sanitary closet. J. W. Nelson and J. C. Scoggins. No. 1,153,815; Sept. 14; Gaz. vol. 218; p. 551.
- Sanitary closet. H. Y. Scarborough and J. G. King. No. 1,161,532; Nov. 23; Gaz. vol. 220; p. 1233.
- Sanitary device. B. G. Thereses. No. 1,160,214; Nov. 16; Gaz. vol. 220; p. 720.
- Sanitary napkin. N. M. Barlet. No. 1,150,572; Aug. 17; Gaz. vol. 217; p. 909.
- Sanitary-napkin holder. S. Goldman. No. 1,146,245; July 13; Gaz. vol. 216; p. 465.
- Sap-receptacle. One-piece folded sheet-metal. C. Stollberg. No. 1,126,121; Jan. 26; Gaz. vol. 210; p. 1145.
- Sash. J. A. Smith. No. 1,153,350; Sept. 14; Gaz. vol. 218; p. 386.
- Sash and door holder. P. W. Rasmussen. No. 1,156,813; Oct. 12; Gaz. vol. 219; p. 541.
- Sash and frame. Window. D. Prester. No. 1,132,382; Mar. 16; Gaz. vol. 212; p. 962.
- Sash-balance. E. Schoenheit. No. 1,147,271; July 20; Gaz. vol. 216; p. 843.
- Sash balance and lock. G. R. Keltner. No. 1,129,688; Feb. 23; Gaz. vol. 211; p. 1180.
- Sash-bars. Interlocking joint for. W. Bayley. No. 1,136,087; Apr. 20; Gaz. vol. 213; p. 791.
- Sash-bolt. W. S. Hamm. No. 1,150,186; Aug. 17; Gaz. vol. 217; p. 774.
- Sash-center. J. J. Delaney. No. 1,137,706; Apr. 27; Gaz. vol. 213; p. 1400.
- Sash centering and holding means. W. S. Trask. No. 1,129,530; Feb. 23; Gaz. vol. 211; p. 1128.
- Sash construction. Window-. J. I. Harris. No. 1,133,472; Mar. 30; Gaz. vol. 212; p. 1440.
- Sash construction. Window-. F. J. Plym. No. 1,157,900; Oct. 26; Gaz. vol. 219; p. 1019.
- Sash-cord fastener. J. J. O'Brien. No. 1,153,439; Sept. 14; Gaz. vol. 218; p. 419.
- Sash-counterbalance. D. W. Trembath. No. 1,135,227; Apr. 13; Gaz. vol. 213; p. 449.

Alphabetical list of inventions—Continued.

- Sash-cushion. G. H. Forsyth. No. 1,149,145; Aug. 3; Gaz. vol. 217; p. 231.
- Sash-fastener. H. F. Adickes, Jr. No. 1,159,637; Nov. 9; Gaz. vol. 220; p. 462.
- Sash-fastener. J. C. Blair and R. L. Freudenberg. No. 1,144,289; June 22; Gaz. vol. 215; p. 1222.
- Sash-fastener. O. R. Brown. No. 1,144,635; June 29; Gaz. vol. 215; p. 1367.
- Sash-fastener. F. W. Davidson. No. 1,130,151; Mar. 2; Gaz. vol. 212; p. 107.
- Sash-fastener. F. T. Davis. No. 1,127,200; Feb. 2; Gaz. vol. 211; p. 189.
- Sash-fastener. C. De Voe. No. 1,141,698; June 1; Gaz. vol. 215; p. 217.
- Sash-fastener. G. S. Jephson. No. 1,129,572; Feb. 23; Gaz. vol. 211; p. 1143.
- Sash-fastener. D. A. Lynn. No. 1,125,356; Jan. 19; Gaz. vol. 210; p. 839.
- Sash-fastener. E. F. Maul. No. 1,163,838; Dec. 14; Gaz. vol. 221; p. 433.
- Sash-fastener. H. L. Muther. No. 1,133,308; Mar. 30; Gaz. vol. 212; p. 1382.
- Sash-fastener. W. H. Nelson. No. 1,138,396; May 4; Gaz. vol. 214; p. 238.
- Sash-fastener. A. H. Newpher. No. 1,139,706; May 18; Gaz. vol. 214; p. 772.
- Sash-fastener. H. L. Norton. No. 1,138,008; May 4; Gaz. vol. 214; p. 99.
- Sash-fastener. H. L. Norton. No. 1,138,009; May 4; Gaz. vol. 214; p. 100.
- Sash-fastener. R. Overand. No. 1,148,712; Aug. 3; Gaz. vol. 217; p. 82.
- Sash-fastener. W. S. Rawson. No. 1,151,715; Aug. 31; Gaz. vol. 217; p. 1401.
- Sash-fastener. J. S. Whitehurst. No. 1,131,975; Mar. 16; Gaz. vol. 212; p. 813.
- Sash fastener, Storm-. J. J. Schubert. No. 1,136,444; Apr. 20; Gaz. vol. 213; p. 919.
- Sash fastener, Window-. M. D. Kilmer. No. 1,164,724; Dec. 21; Gaz. vol. 221; p. 781.
- Sash-frame-holding means. E. T. Gaskill. No. 1,142,954; June 15; Gaz. vol. 215; p. 731.
- Sash-hanger. J. H. Class. No. 1,150,015; Aug. 17; Gaz. vol. 217; p. 712.
- Sash-hanger. W. P. Moses. No. 1,141,818; June 1; Gaz. vol. 215; p. 255.
- Sash-holder. Q. G. Eddins. No. 1,153,773; Sept. 14; Gaz. vol. 218; p. 536.
- Sash-holder. J. T. Hart. No. 1,162,860; Dec. 7; Gaz. vol. 221; p. 44.
- Sash-holder. A. Hollen. No. 1,151,181; Aug. 24; Gaz. vol. 217; p. 1174.
- Sash-holder. J. W. McLean. No. 1,157,318; Oct. 19; Gaz. vol. 219; p. 752.
- Sash-holder. C. R. Nobles. No. 1,157,797; Oct. 26; Gaz. vol. 219; p. 981.
- Sash-holder. E. Olson. No. 1,138,242; May 4; Gaz. vol. 214; p. 181.
- Sash-holder. E. Schoenheit. No. 1,147,270; July 20; Gaz. vol. 216; p. 843.
- Sash-holder. C. S. Swift. No. 1,159,614; Nov. 9; Gaz. vol. 220; p. 454.
- Sash-holder. J. P. Williams. No. 1,138,823; May 11; Gaz. vol. 214; p. 425.
- Sash-holder and burglar-alarm. C. C. Lott. No. 1,150,528; Aug. 17; Gaz. vol. 217; p. 892.
- Sash holder and lock, Combined window-. J. C. Nichol. No. 1,153,564; Sept. 14; Gaz. vol. 218; p. 465.
- Sash holder, Window-. A. M. Parish. No. 1,128,181; Feb. 9; Gaz. vol. 211; p. 573.
- Sash joint, Metal-. A. Clark and G. Warren. No. 1,123,847; Jan. 5; Gaz. vol. 210; p. 221.
- Sash lift and lock, Window-. L. Schmidt and S. Brunstein. No. 1,140,770; May 25; Gaz. vol. 214; p. 1178.
- Sash-lock. R. O. Beach. No. 1,137,302; Apr. 27; Gaz. vol. 213; p. 1244.
- Sash-lock. H. P. Benus. No. 1,150,412; Aug. 17; Gaz. vol. 217; p. 852.
- Sash-lock. A. B. Brown. No. 1,140,945; May 25; Gaz. vol. 214; p. 1242.
- Sash-lock. L. E. Bubenheim. No. 1,147,604; July 20; Gaz. vol. 216; p. 960.
- Sash-lock. F. T. Feicht. No. 1,140,027; May 18; Gaz. vol. 214; p. 886.
- Sash-lock. H. Foerster. No. 1,126,969; Feb. 2; Gaz. vol. 211; p. 106.
- Sash-lock. J. A. Gliese. No. 1,125,511; Jan. 19; Gaz. vol. 210; p. 893.
- Sash-lock. H. W. Goodnow. No. 1,141,332; June 1; Gaz. vol. 215; p. 87.
- Sash-lock. G. R. Hall. No. 1,144,124; June 22; Gaz. vol. 215; p. 1163.
- Sash-lock. C. P. Hathaway. No. 1,152,728; Sept. 7; Gaz. vol. 218; p. 127.
- Sash-lock. S. Hørsford. No. 1,166,215; Dec. 28; Gaz. vol. 221; p. 1345.
- Sash-lock. C. E. Janes. No. 1,126,639; Jan. 26; Gaz. vol. 210; p. 1333.
- Sash-lock. T. Richards. No. 1,148,859; Aug. 3; Gaz. vol. 217; p. 133.
- Sash-lock. L. Schwarz and R. Weber. No. 1,150,891; Aug. 24; Gaz. vol. 217; p. 1075.
- Sash-lock. M. Smolensky. No. 1,124,821; Jan. 12; Gaz. vol. 210; p. 613.
- Sash-lock. F. E. Sparks. No. 1,126,113; Jan. 26; Gaz. vol. 210; p. 1142.
- Sash-lock. G. Takacs. No. 1,141,286; June 1; Gaz. vol. 215; p. 70.
- Sash-lock. W. J. West. No. 1,160,477; Nov. 16; Gaz. vol. 220; p. 812.
- Sash-lock. J. O. Yardley. No. 1,134,572; Apr. 6; Gaz. vol. 213; p. 178.
- Sash lock and lifter. J. A. Johnson. No. 1,126,223; Jan. 26; Gaz. vol. 210; p. 1183.
- Sash-lock and window-stop, Antirattling. L. P. Conklin. No. 1,153,763; Sept. 14; Gaz. vol. 218; p. 532.
- Sash-lock, Automatic. J. H. Barton. No. 1,133,217; Mar. 23; Gaz. vol. 212; p. 1314.
- Sash-lock, Automatic. J. B. Harper. No. 1,163,086; Dec. 7; Gaz. vol. 221; p. 122.
- Sash lock, Automatic window-. C. G. Westlund. No. 1,127,835; Feb. 9; Gaz. vol. 211; p. 452.
- Sash-lock for windows. W. H. Voorhees. No. 1,137,435; Apr. 27; Gaz. vol. 213; p. 1313.
- Sash lock, Window-. B. Adelson. No. 1,159,636; Nov. 9; Gaz. vol. 220; p. 462.
- Sash lock, Window-. C. H. Anderson. No. 1,137,828; May 4; Gaz. vol. 214; p. 37.
- Sash lock, Window-. T. J. Blossick. No. 1,161,597; Nov. 23; Gaz. vol. 220; p. 1255.
- Sash lock, Window-. E. J. Keating. No. 1,147,175; July 20; Gaz. vol. 216; p. 810.
- Sash lock, Window-. F. R. Merrell. No. 1,142,450; June 8; Gaz. vol. 215; p. 518.
- Sash lock, Window-. N. G. Nelson. No. 1,155,084; Sept. 28; Gaz. vol. 218; p. 1051.
- Sash lock, Window-. W. M. Reichard. No. 1,155,617; Oct. 5; Gaz. vol. 219; p. 101.
- Sash lock, Window-. F. C. Schoenherr. No. 1,156,632; Oct. 12; Gaz. vol. 219; p. 481.
- Sash lock, Window-. J. T. Wall. No. 1,158,599; Nov. 2; Gaz. vol. 220; p. 67.
- Sash-making machine. S. Madsen. No. 1,151,892; Aug. 31; Gaz. vol. 217; p. 1465.
- Sash, Metal window-. B. S. McClellan. No. 1,139,787; May 18; Gaz. vol. 214; p. 800.
- Sash, Metallic window-. J. T. Allmand. No. 1,147,836; July 27; Gaz. vol. 216; p. 1068.
- Sash, Metallic window-. R. S. Drummond. No. 1,158,461; Nov. 2; Gaz. vol. 220; p. 18.
- Sash, Metallic window-. J. A. Jones. No. 1,161,316; Nov. 23; Gaz. vol. 220; p. 1157.
- Sash-operating device, Multiple-. J. Matthews, E. W. Freeman, and W. H. S. Bateman. No. 1,139,205; May 11; Gaz. vol. 214; p. 561.
- Sash-raising mechanism, Automatic. A. D. and E. J. Rawlings. No. 1,154,432; Sept. 21; Gaz. vol. 218; p. 798.
- Sash-retainer. W. B. McAllister. No. 1,155,830; Oct. 5; Gaz. vol. 219; p. 177.
- Sash-retaining device for windows. J. A. Cochrane. No. 1,129,550; Feb. 23; Gaz. vol. 211; p. 1135.
- Sash screen attachment, Window-. R. H. Ranning. No. 1,162,328; Nov. 30; Gaz. vol. 220; p. 1556.
- Sash, Stay and fastener for storm-. V. Lockwood. No. 1,139,781; May 18; Gaz. vol. 214; p. 798.
- Sash-stop or parting-bead. H. H. Schroyer. No. 1,126,884; Feb. 2; Gaz. vol. 211; p. 78.
- Sash-supporter. A. W. Nelson. No. 1,127,666; Feb. 9; Gaz. vol. 211; p. 388.
- Sash, Swinging window-. W. Bayley. No. 1,152,927; Sept. 7; Gaz. vol. 218; p. 201.
- Sash, Ventilating window-. G. Benisch. No. 1,164,251; Dec. 14; Gaz. vol. 221; p. 574.
- Sash-weight cords, Coupling for. J. D. Mable. No. 1,159,852; Nov. 9; Gaz. vol. 220; p. 541.
- Sash-weight, Sectional. G. J. Fox. No. 1,162,906; Dec. 7; Gaz. vol. 221; p. 60.
- Sash, Window-. O. M. Edwards. No. 1,147,008; July 20; Gaz. vol. 216; p. 752.
- Sash, Window-. F. F. McClain. No. 1,143,640; June 22; Gaz. vol. 215; p. 995.
- Sash, Window-. B. S. McClellan. No. 1,149,072; Aug. 3; Gaz. vol. 217; p. 208.
- Sashes, Automatic roller-bearing for window-. J. P. Cunningham. No. 1,127,196; Feb. 2; Gaz. vol. 211; p. 187.
- Sashes, Clip for metallic window-. D. C. Briggs. No. 1,164,331; Dec. 14; Gaz. vol. 221; p. 604.
- Sashes, Constructing window-. M. Lachman. No. 1,152,741; Sept. 7; Gaz. vol. 218; p. 133.
- Sashes, doors, and the like, Holder for. O. Von Hiddessen. No. 1,127,833; Feb. 9; Gaz. vol. 211; p. 452.
- Sashes having sliding and pivotal movements, Operating means for. J. B. Clermont. No. 1,150,175; Aug. 17; Gaz. vol. 217; p. 770.
- Sashes, Pane-fastening means for window-. F. H. Schmid. No. 1,158,306; Oct. 26; Gaz. vol. 219; p. 1161.
- Satchel and the like handle. C. Kopf. No. 1,157,400; Oct. 19; Gaz. vol. 219; p. 782.
- Satchel and the like handle. J. L. Kron. No. 1,134,871; Apr. 6; Gaz. vol. 213; p. 283.
- Saturating apparatus. F. Tschudy. No. 1,155,386; Oct. 5; Gaz. vol. 219; p. 21.

- Sauer-kraut machine. M. L. Schilly. No. 1,149,954; Aug. 10; Gaz. vol. 217; p. 629.
- Sausage-casing. W. P. Cohoe. No. 1,158,400; Oct. 26; Gaz. vol. 219; p. 1194.
- Sausage-filling machine. F. Rohwer. No. 1,164,400; Dec. 14; Gaz. vol. 221; p. 628.
- Sausage-linking machine. R. Swoboda. No. 1,153,584; Sept. 14; Gaz. vol. 218; p. 472.
- Sausage-skin. Artificial. C. Lange. No. 1,157,556; Oct. 19; Gaz. vol. 219; p. 835.
- Sausage-skin-cleaning apparatus. H. C. Ziprick. No. 1,155,393; Oct. 5; Gaz. vol. 219; p. 24.
- Sausage-skins. Preparing artificial. J. Samuel. No. 1,124,064; Jan. 5; Gaz. vol. 210; p. 294.
- Sausage-stuffer. C. W. Hottmann. No. 1,133,030; Mar. 23; Gaz. vol. 212; p. 1249.
- Sausage-stuffing machine. W. H. Bazley. No. 1,130,661; Mar. 2; Gaz. vol. 212; p. 286.
- Sausages and the like. Machine for filling. A. Köhler. No. 1,143,715; June 22; Gaz. vol. 215; p. 1020.
- Save-all box. B. D. Coppage. No. 1,145,559; July 6; Gaz. vol. 216; p. 204.
- Saw. G. R. Burgess. No. 1,136,181; Apr. 20; Gaz. vol. 213; p. 825.
- Saw. A. L. Cline. No. 1,137,833; May 4; Gaz. vol. 214; p. 41.
- Saw. F. A. Onstine. No. 1,129,595; Feb. 23; Gaz. vol. 211; p. 1152.
- Saw. D. W. Williams. No. 1,146,468; July 13; Gaz. vol. 216; p. 546.
- Saw and saw-cylinder for hnters and cotton-gins. G. L. Blanchard. No. 1,161,830; Nov. 30; Gaz. vol. 220; p. 1331.
- Saw and saw-cylinder for hnters and cotton-gins. G. L. Blanchard. No. 1,161,831; Nov. 30; Gaz. vol. 220; p. 1332.
- Saw and try-square. Combination. C. P. Funk. No. 1,136,790; Apr. 20; Gaz. vol. 213; p. 1041.
- Saw. Annular bone-. E. J. Greenfield. No. 1,123,730; Jan. 5; Gaz. vol. 210; p. 182.
- Saw attachment, Circular-. D. Beaudry. No. 1,125,637; Jan. 19; Gaz. vol. 210; p. 938.
- Saw. Band-. R. C. Berry. No. 1,152,696; Sept. 7; Gaz. vol. 218; p. 116.
- Saw. Band-. E. Schmelzle. No. 1,125,738; Jan. 19; Gaz. vol. 210; p. 976.
- Saw. Band-. J. A. Smith. No. 1,123,412; Jan. 5; Gaz. vol. 210; p. 74.
- Saw-bench structure. W. R. Fox and E. W. Cleveland. No. 1,139,659; May 18; Gaz. vol. 214; p. 756.
- Saw-blade holder. A. Michie. No. 1,127,062; Feb. 2; Gaz. vol. 211; p. 140.
- Saw. Chain. H. E. Martin. No. 1,150,217; Aug. 17; Gaz. vol. 217; p. 784.
- Saw. Chain. H. E. Martin. No. 1,150,218; Aug. 17; Gaz. vol. 217; p. 784.
- Saw-clamp. P. Meyer. No. 1,159,597; Nov. 9; Gaz. vol. 220; p. 447.
- Saw-clamp. H. M. Wood. No. 1,137,301; Apr. 27; Gaz. vol. 213; p. 1263.
- Saw-clamping device. W. G. Pellow. No. 1,128,897; Feb. 16; Gaz. vol. 211; p. 871.
- Saw. Convertible. J. M. Nugent. No. 1,135,912; Apr. 13; Gaz. vol. 213; p. 690.
- Saw. Crosscut-. R. W. Graves. No. 1,127,883; Feb. 9; Gaz. vol. 211; p. 469.
- Saw. Cutting-off. G. Gorton. No. 1,153,682; Sept. 14; Gaz. vol. 218; p. 504.
- Saw. Drag-. A. M. Higley. No. 1,131,239; Mar. 9; Gaz. vol. 212; p. 519.
- Saw. Electrical scroll-. G. H. Murphy. No. 1,155,835; Oct. 5; Gaz. vol. 219; p. 179.
- Saw. Endless chain. R. L. Muir. No. 1,123,783; Jan. 5; Gaz. vol. 210; p. 200.
- Saw-engine. Portable. N. B. Mitchell and J. W. Taggart, Sr. No. 1,160,933; Nov. 16; Gaz. vol. 220; p. 976.
- Saw-filing apparatus, Band-. L. C. Wasser. No. 1,159,442; Nov. 9; Gaz. vol. 220; p. 892.
- Saw-filing device. W. T. O'Hara. No. 1,136,257; Apr. 20; Gaz. vol. 213; p. 852.
- Saw-filing device, Automatic. F. N. Russell and O. S. Lind. No. 1,144,254; June 22; Gaz. vol. 215; p. 1209.
- Saw-filing machine. R. E. Beers. No. 1,131,030; Mar. 9; Gaz. vol. 212; p. 447.
- Saw-filing machine. H. I. Hanson. No. 1,165,248; Dec. 21; Gaz. vol. 221; p. 965.
- Saw-filing machine. C. F. Hertz. No. 1,135,015; Apr. 13; Gaz. vol. 213; p. 378.
- Saw frame, Wood-. N. H. Shaw. No. 1,153,646; Sept. 14; Gaz. vol. 218; p. 492.
- Saw-gage. L. Belsanté. No. 1,164,568; Dec. 14; Gaz. vol. 221; p. 685.
- Saw-gage. B. J. Driscoll. No. 1,123,711; Jan. 5; Gaz. vol. 210; p. 175.
- Saw-gage. E. J. Faires and C. W. Stockburger. No. 1,131,352; Mar. 9; Gaz. vol. 212; p. 557.
- Saw-gage. D. Sebring. No. 1,153,262; Sept. 14; Gaz. vol. 218; p. 355.
- Saw-guard. W. F. Folmer. No. 1,126,970; Feb. 2; Gaz. vol. 211; p. 107.
- Saw-guard. A. F. Howe. No. 1,148,169; July 27; Gaz. vol. 216; p. 1183.
- Saw-guard. W. F. Lawlor. No. 1,152,325; Aug. 31; Gaz. vol. 217; p. 1613.
- Saw-guard. J. L. Rushton. No. 1,154,209; Sept. 21; Gaz. vol. 218; p. 720.
- Saw-guard. A. A. Ruttan. No. 1,140,400; May 25; Gaz. vol. 214; p. 1050.
- Saw-guard, Automatic safety. F. W. Pleasance. No. 1,127,509; Feb. 9; Gaz. vol. 211; p. 337.
- Saw guard, Circular-. J. Edman. No. 1,135,168; Apr. 13; Gaz. vol. 213; p. 430.
- Saw guard, Circular-. C. E. Evans. No. 1,163,517; Dec. 7; Gaz. vol. 221; p. 274.
- Saw guard, Circular-. W. R. Martin. No. 1,125,364; Jan. 19; Gaz. vol. 210; p. 843.
- Saw-guard for band-mills. A. Isaacson. No. 1,128,879; Feb. 16; Gaz. vol. 211; p. 862.
- Saw-guide. J. E. Wilson. No. 1,147,063; July 20; Gaz. vol. 216; p. 771.
- Saw-guide. H. Woelffer. No. 1,157,607; Oct. 19; Gaz. vol. 219; p. 850.
- Saw-handle. C. G. T. Jacobson. No. 1,149,061; Aug. 3; Gaz. vol. 217; p. 204.
- Saw-handle. E. A. Olson. No. 1,123,788; Jan. 5; Gaz. vol. 210; p. 202.
- Saw-handle. R. W. Sandford. No. 1,163,860; Dec. 14; Gaz. vol. 221; p. 440.
- Saw-handle, Detachable. S. Lucier. No. 1,145,428; July 6; Gaz. vol. 216; p. 158.
- Saw-holding device. M. Clarke. No. 1,143,748; June 22; Gaz. vol. 215; p. 1031.
- Saw-holding device. M. Clarke. No. 1,143,749; June 22; Gaz. vol. 215; p. 1031.
- Saw-jointer. E. C. Manterola. No. 1,136,023; Apr. 20; Gaz. vol. 213; p. 770.
- Saw jointer and gage. J. B. Perry. No. 1,163,555; Dec. 7; Gaz. vol. 221; p. 286.
- Saw machine, Band-. A. P. Thomas and G. Carlson. No. 1,139,823; May 18; Gaz. vol. 214; p. 813.
- Saw machine, Portable drag-. E. Vaughan. No. 1,165,298; Dec. 21; Gaz. vol. 221; p. 982.
- Saw, Meat-. A. Rioux. No. 1,152,976; Sept. 7; Gaz. vol. 218; p. 219.
- Saw, Metal-cutting. W. B. Huther. No. 1,125,102; Jan. 19; Gaz. vol. 210; p. 747.
- Saw mill, Lath and bolting. J. S. Yaukey. No. 1,162,538; Nov. 30; Gaz. vol. 220; p. 1628.
- Saw, Milling-. H. S. Hunter. No. 1,144,131; June 22; Gaz. vol. 215; p. 1166.
- Saw, Portable rail-. W. H. Butz and J. McCarthy. No. 1,151,340; Aug. 24; Gaz. vol. 217; p. 1227.
- Saw-regrinding attachment for saw gummers or sharpeners. E. A. O'Connor. No. 1,144,721; June 29; Gaz. vol. 215; p. 1398.
- Saw-rim adjuster. N. H. Stone. No. 1,155,966; Oct. 5; Gaz. vol. 219; p. 222.
- Saw-set. S. Ballard. No. 1,131,105; Mar. 9; Gaz. vol. 212; p. 473.
- Saw-set. V. Carlson. No. 1,131,208; Mar. 9; Gaz. vol. 212; p. 508.
- Saw-set. C. Danes. No. 1,127,865; Feb. 9; Gaz. vol. 211; p. 463.
- Saw-set. O. H. Detlie. No. 1,143,754; June 22; Gaz. vol. 215; p. 1034.
- Saw-set. C. W. Grundeman. No. 1,128,776; Feb. 16; Gaz. vol. 211; p. 826.
- Saw-set. L. J. Hampton. No. 1,128,443; Feb. 16; Gaz. vol. 211; p. 712.
- Saw-set. W. J. Jacobs. No. 1,155,927; Oct. 5; Gaz. vol. 219; p. 209.
- Saw-set. C. E. Miller. No. 1,131,407; Mar. 9; Gaz. vol. 212; p. 577.
- Saw-set. J. A. Sharps. No. 1,125,406; Jan. 19; Gaz. vol. 210; p. 858.
- Saw-set. O. R. Shockley. No. 1,131,563; Mar. 9; Gaz. vol. 212; p. 630.
- Saw-set. J. M. Smith. No. 1,139,818; May 18; Gaz. vol. 214; p. 811.
- Saw-set. G. N. Spencer. No. 1,132,694; Mar. 23; Gaz. vol. 212; p. 1124.
- Saw-set. T. B. Worthington. No. 1,152,256; Aug. 31; Gaz. vol. 217; p. 1589.
- Saw set and jointer, Combined. O. Minsas. No. 1,164,842; Dec. 21; Gaz. vol. 221; p. 823.
- Saw set, Crosscut-. E. P. Martin. No. 1,159,974; Nov. 9; Gaz. vol. 220; p. 583.
- Saw-setting device. S. A. Mischansky. No. 1,159,407; Nov. 9; Gaz. vol. 220; p. 379.
- Saw-setting device, Band-. C. S. Bushell. No. 1,144,889; June 29; Gaz. vol. 215; p. 1456.
- Saw setting, filing and swaging machine. S. Paulson. No. 1,132,379; Mar. 16; Gaz. vol. 212; p. 960.
- Saw-setting machine. E. E. Lincoln. No. 1,163,351; Dec. 7; Gaz. vol. 221; p. 216.
- Saw-setting machine. J. O. Pettey. No. 1,123,365; Jan. 5; Gaz. vol. 210; p. 58.
- Saw-setting tool. J. M. Murphy. No. 1,164,381; Dec. 14; Gaz. vol. 221; p. 621.
- Saw spacer, Gin-. H. Arnold and T. A. Austin. No. 1,150,728; Aug. 17; Gaz. vol. 217; p. 961.
- Saw-supporting means. H. N. Weddle. No. 1,145,284; July 6; Gaz. vol. 216; p. 107.

Alphabetical list of inventions—Continued.

- Saw-tooth-centering indicator. A. E. White. No. 1,152,996; Sept. 7; Gaz. vol. 218; p. 226.
- Saw-teeth, Insertible. W. R. Kendall. No. 1,141,063; May 25; Gaz. vol. 214; p. 1281.
- Saw-teeth, Manufacture of. W. Lewis. No. 1,132,592; Mar. 23; Gaz. vol. 212; p. 1086.
- Saw-teeth, Shaper for swaged. J. B. Ricker. No. 1,153,444; Sept. 14; Gaz. vol. 218; p. 421.
- Saw-teeth, Tool for use in filing swaged. J. F. Erlei. No. 1,141,451; June 1; Gaz. vol. 215; p. 130.
- Saw-treating device. G. B. Begg. No. 1,143,934; June 22; Gaz. vol. 215; p. 1095.
- Saw, Tree-trunk. E. L. Freese. No. 1,132,251; Mar. 16; Gaz. vol. 212; p. 915.
- Saw, Trimmer. W. H. Lieber. No. 1,128,795; Feb. 16; Gaz. vol. 211; p. 833.
- Saws, Detachable tooth for metal. S. T. Freas. No. 1,148,374; July 27; Gaz. vol. 216; p. 1261.
- Saws, Inserted tooth for. S. J. Brown. No. 1,140,021; May 18; Gaz. vol. 214; p. 883.
- Saws, Machine for manufacturing strip. G. L. Blanchard. No. 1,156,458; Oct. 12; Gaz. vol. 219; p. 420.
- Saws, Safety-grip for circular. F. M. Stevens. No. 1,132,129; Mar. 16; Gaz. vol. 212; p. 869.
- Sawdust-drying apparatus. H. C. Johnson. No. 1,162,488; Nov. 30; Gaz. vol. 220; p. 1610.
- Sawhorse, Adjustable and foldable. E. F. Varache, Jr. No. 1,150,794; Aug. 17; Gaz. vol. 217; p. 983.
- Sawing-machine. A. Applegate. No. 1,159,153; Nov. 2; Gaz. vol. 220; p. 257.
- Sawing-machine. D. Heggie. No. 1,155,060; Sept. 28; Gaz. vol. 218; p. 1041.
- Sawing-machine. C. Strauss. No. 1,126,312; Jan. 26; Gaz. vol. 210; p. 1214.
- Sawing-machine. F. J. M. Tammen. No. 1,127,108; Feb. 2; Gaz. vol. 211; p. 157.
- Sawing-machine. G. J. Tappan. No. 1,156,722; Oct. 12; Gaz. vol. 219; p. 512.
- Sawing-machine. S. E. Walling. No. 1,149,483; Aug. 10; Gaz. vol. 217; p. 457.
- Sawing-machine. J. D. Watt. No. 1,123,442; Jan. 5; Gaz. vol. 210; p. 84.
- Sawing-machine. K. T. Whitney. No. 1,124,244; Jan. 5; Gaz. vol. 210; p. 358.
- Sawing-machine feed mechanism. G. A. Ensign. No. 1,160,057; Nov. 9; Gaz. vol. 220; p. 610.
- Sawing-machine for plaster-boards, Cut-off. D. C. Williams. No. 1,147,289; July 20; Gaz. vol. 216; p. 848.
- Sawing-machine for short boards. F. H. Johansson. No. 1,150,601; Aug. 17; Gaz. vol. 217; p. 918.
- Sawing-machine, Motor. G. M. Starnes. No. 1,132,402; Mar. 16; Gaz. vol. 212; p. 969.
- Sawing-machine, Portable electric automatic. W. Grapp. No. 1,144,705; June 29; Gaz. vol. 215; p. 1392.
- Sawing machine, Tree. F. W. Bowker and D. W. Smith. No. 1,127,172; Feb. 2; Gaz. vol. 211; p. 179.
- Sawing machine, Tree. J. M. Van den Bergh. No. 1,136,852; Apr. 20; Gaz. vol. 213; p. 1064.
- Sawing tapered logs. T. Rodes. No. 1,146,655; July 13; Gaz. vol. 216; p. 609.
- Sawmill-carriages, Track-cleaner for. G. M. Reddy. No. 1,144,916; June 29; Gaz. vol. 215; p. 1463.
- Sawmill-dog-locking device. J. W. Morris. No. 1,139,055; May 11; Gaz. vol. 214; p. 508.
- Sawmill set-works. G. M. Pelton. No. 1,129,225; Feb. 23; Gaz. vol. 211; p. 1020.
- Saxophone. P. C. Hardy. No. 1,166,046; Dec. 28; Gaz. vol. 221; p. 1281.
- Saxophone. M. A. Stover. No. 1,146,368; July 13; Gaz. vol. 216; p. 507.
- Scabbard or holster hanger. I. Glassman. No. 1,131,054; Mar. 9; Gaz. vol. 212; p. 455.
- Scaffold. H. Bade, Jr. No. 1,153,884; Sept. 21; Gaz. vol. 218; p. 611.
- Scaffold. J. Faragher. No. 1,166,118; Dec. 28; Gaz. vol. 221; p. 1307.
- Scaffold. A. N. Faulkner. No. 1,164,587; Dec. 14; Gaz. vol. 221; p. 691.
- Scaffold. B. R. Peters. No. 1,147,541; July 20; Gaz. vol. 216; p. 938.
- Scaffold. W. R. Vancleave. No. 1,158,873; Nov. 2; Gaz. vol. 220; p. 163.
- Scaffold, Adjustable window. V. Burhans. No. 1,157,503; Oct. 19; Gaz. vol. 219; p. 818.
- Scaffold-bracket. A. R. Boyce. No. 1,142,297; June 8; Gaz. vol. 215; p. 462.
- Scaffold-bracket. J. J. T. Macklem. No. 1,129,218; Feb. 23; Gaz. vol. 211; p. 1018.
- Scaffold-bracket. L. S. Wixson. No. 1,130,652; Mar. 2; Gaz. vol. 212; p. 283.
- Scaffold, Foldable or collapsible adjustable. F. J. Nagel. No. 1,133,878; Mar. 30; Gaz. vol. 212; p. 1588.
- Scaffold, Folding bracket. G. Bonenberger and J. R. Goodwin. No. 1,125,051; Jan. 19; Gaz. vol. 210; p. 730.
- Scaffold-hanger. O. A. Green. No. 1,126,986; Feb. 2; Gaz. vol. 211; p. 113.
- Scaffold-jack. J. Fiebler. No. 1,145,300; July 6; Gaz. vol. 216; p. 113.
- Scaffold, Ladder. D. E. Brown. No. 1,148,350; July 27; Gaz. vol. 216; p. 1252.
- Scaffold, Portable. J. A. Granger. No. 1,136,898; Apr. 20; Gaz. vol. 213; p. 1079.
- Scaffold safety attachment. F. Stillwell. No. 1,148,872; Aug. 3; Gaz. vol. 217; p. 138.
- Scaffold-support. A. Klumpp. No. 1,141,554; June 1; Gaz. vol. 215; p. 167.
- Scaffold-support. J. J. Macklem. No. 1,129,410; Feb. 23; Gaz. vol. 211; p. 1086.
- Scaffold-support. J. M. Thorp. No. 1,131,172; Mar. 9; Gaz. vol. 212; p. 495.
- Scaffold support, Pendant. W. H. Alley. No. 1,141,749; June 1; Gaz. vol. 215; p. 233.
- Scaffold, Trestle. G. Bonenberger. No. 1,138,838; May 11; Gaz. vol. 214; p. 431.
- Scaffold, Window. A. P. Leadholm and C. J. Efrainson. No. 1,141,805; June 1; Gaz. vol. 215; p. 252.
- Scaffold, Window. G. H. Lindelof. No. 1,163,023; Dec. 7; Gaz. vol. 221; p. 101.
- Scaffold, Window. V. Persoons. No. 1,145,263; July 6; Gaz. vol. 216; p. 101.
- Scaffold workmen, Safety device for. F. A. Volgt. No. 1,127,832; Feb. 9; Gaz. vol. 211; p. 451.
- Scaffolding. L. G. Hinnant. No. 1,143,709; June 22; Gaz. vol. 215; p. 1018.
- Scaffolding device. F. B. Johnston. No. 1,127,445; Feb. 9; Gaz. vol. 211; p. 314.
- Scaffolding device. F. B. Johnston. No. 1,127,446; Feb. 9; Gaz. vol. 211; p. 315.
- Scale. H. S. Bergen. No. 1,154,965; Sept. 28; Gaz. vol. 218; p. 1008.
- Scale. J. Bernia. No. 1,144,685; June 29; Gaz. vol. 215; p. 1384.
- Scale. J. H. A. Bousfield. No. 1,128,844; Feb. 16; Gaz. vol. 211; p. 851.
- Scale. F. P. Dunn. (Reissue.) No. 13,995; Oct. 19; Gaz. vol. 219; p. 870.
- Scale. C. M. Goodrich. No. 1,140,813; May 25; Gaz. vol. 214; p. 1193.
- Scale. C. H. Hapgood. No. 1,142,165; June 8; Gaz. vol. 215; p. 416.
- Scale. F. T. Richards. No. 1,140,530; May 25; Gaz. vol. 214; p. 1099.
- Scale. C. E. Riedel. No. 1,139,998; May 18; Gaz. vol. 214; p. 875.
- Scale. C. H. Scott. No. 1,156,500; Oct. 12; Gaz. vol. 219; p. 435.
- Scale. W. F. Stimpson. No. 1,137,096; Apr. 27; Gaz. vol. 213; p. 1188.
- Scale. F. F. Wear. No. 1,162,836; Dec. 7; Gaz. vol. 221; p. 37.
- Scale, Adding and weighing. H. Hathaway. No. 1,153,222; Sept. 14; Gaz. vol. 218; p. 341.
- Scale and other measuring instrument, Weighing. M. H. Hansen. No. 1,141,629; June 1; Gaz. vol. 215; p. 192.
- Scale, Automatic. J. L. Jenkins. No. 1,154,402; Sept. 21; Gaz. vol. 218; p. 789.
- Scale, Automatic. R. J. Zanone. No. 1,148,271; July 27; Gaz. vol. 216; p. 1223.
- Scale, Automatic. R. J. Zanone. No. 1,152,868; Sept. 7; Gaz. vol. 218; p. 179.
- Scale, Automatic hopper. J. H. A. Bousfield. No. 1,149,331; Aug. 10; Gaz. vol. 217; p. 405.
- Scale, Automatic recording. E. McGarvey. No. 1,149,378; Aug. 10; Gaz. vol. 217; p. 421.
- Scale, Automatic weighing. G. M. Ludlow. No. 1,140,836; May 25; Gaz. vol. 214; p. 1201.
- Scale, Automatic weighing. H. B. Osgood. No. 1,125,874; Jan. 19; Gaz. vol. 210; p. 1022.
- Scale, Automatic weighing. L. A. Osgood. No. 1,159,412; Nov. 9; Gaz. vol. 220; p. 381.
- Scale, Automatic weighing. A. M. Williams. No. 1,126,164; Jan. 26; Gaz. vol. 210; p. 1160.
- Scale, Bagging. W. H. Sawyer. No. 1,140,485; May 25; Gaz. vol. 214; p. 1082.
- Scale-beam. L. M. Smith. No. 1,131,165; Mar. 9; Gaz. vol. 212; p. 492.
- Scale, Coin-controlled weighing. G. F. W. Schultze. No. 1,134,559; Apr. 6; Gaz. vol. 213; p. 174.
- Scale, Coin-operated weighing. H. S. Mills. No. 1,139,993; May 18; Gaz. vol. 214; p. 873.
- Scale, Coin-operated weighing. B. E. Mills. No. 1,155,077; Sept. 28; Gaz. vol. 218; p. 1048.
- Scale, Coin-operated weighing. H. S. Mills. No. 1,155,078; Sept. 28; Gaz. vol. 218; p. 1048.
- Scale, Computing. W. C. Farrell. No. 1,131,126; Mar. 9; Gaz. vol. 212; p. 479.
- Scale, Computing. J. Hopkinson. No. 1,125,846; Jan. 19; Gaz. vol. 210; p. 1012.
- Scale, Computing. J. Hopkinson. No. 1,140,824; May 25; Gaz. vol. 214; p. 1197.
- Scale, Computing. J. Hopkinson. No. 1,140,825; May 25; Gaz. vol. 214; p. 1198.
- Scale, Computing. J. Hopkinson. No. 1,146,795; July 20; Gaz. vol. 216; p. 677.
- Scale, Computing. J. Hopkinson. No. 1,151,593; Aug. 31; Gaz. vol. 217; p. 1361.
- Scale, Computing. J. Hopkinson. No. 1,158,219; Oct. 26; Gaz. vol. 219; p. 1129.
- Scale, Computing. J. Hopkinson. No. 1,159,385; Nov. 9; Gaz. vol. 220; p. 371.
- Scale, Computing. M. T. Huw. No. 1,129,095; Feb. 23; Gaz. vol. 211; p. 975.
- Scale, Computing. G. R. Krebs and J. W. Morgan. No. 1,148,099; July 27; Gaz. vol. 216; p. 1163.

Alphabetical list of inventions—Continued.

- Scale, Computing-. G. R. Krebs and J. W. Morgan. No. 1,148,100; July 27; Gaz. vol. 216; p. 1163.
- Scale, Computing-. G. M. Mercer. No. 1,124,052; Jan. 5; Gaz. vol. 210; p. 290.
- Scale, Contour-. H. D. Edmonds. No. 1,129,081; Feb. 23; Gaz. vol. 211; p. 970.
- Scale for refrigerators, Ice-. B. M. Henley. No. 1,139,522; May 18; Gaz. vol. 214; p. 706.
- Scale for refrigerators, Ice-. F. W. Miller. No. 1,148,034; July 27; Gaz. vol. 216; p. 1138.
- Scale from incrustated surfaces, Removing. T. R. Green-horne. No. 1,135,684; Apr. 13; Gaz. vol. 213; p. 611.
- Scale-holder, Adjustable. M. F. Cubiac. No. 1,163,512; Dec. 7; Gaz. vol. 221; p. 272.
- Scale indicating and totaling mechanism. R. H. McCormick. No. 1,131,785; Mar. 16; Gaz. vol. 212; p. 745.
- Scale load-supporting or platform beam, Track-. C. C. Wentworth. No. 1,147,471; July 20; Gaz. vol. 216; p. 914.
- Scale, Measuring-. A. E. De Cost. No. 1,129,557; Feb. 23; Gaz. vol. 211; p. 1137.
- Scale mechanism. A. M. Gull. No. 1,124,610; Jan. 12; Gaz. vol. 210; p. 538.
- Scale, Parcel-post weighing-. G. B. Justice. No. 1,135,812; Apr. 13; Gaz. vol. 213; p. 655.
- Scale, Percentage-. C. G. Michalis and M. Münzner. No. 1,136,694; Apr. 20; Gaz. vol. 213; p. 1007.
- Scale, Railway track-. M. Maurer. No. 1,149,382; Aug. 10; Gaz. vol. 217; p. 422.
- Scale, Railway track-. L. R. Rosebrook. No. 1,148,991; Aug. 3; Gaz. vol. 217; p. 179.
- Scale, Railway weighing-. M. H. Winslow. No. 1,133,901; Mar. 30; Gaz. vol. 212; p. 1595.
- Scale, Ship-. J. Frame. No. 1,135,104; Apr. 13; Gaz. vol. 213; p. 409.
- Scale, Spring-balance. F. Reichmann. No. 1,138,687; May 11; Gaz. vol. 214; p. 376.
- Scale, Spring weighing-. E. Menz. No. 1,141,722; June 1; Gaz. vol. 215; p. 225.
- Scale, Testing-. L. E. Law. No. 1,141,562; June 1; Gaz. vol. 215; p. 170.
- Scale, Wagon-. M. E. Anderson. No. 1,137,447; Apr. 27; Gaz. vol. 213; p. 1316.
- Scale, Wagon-. H. A. Smith. No. 1,130,771; Mar. 9; Gaz. vol. 212; p. 358.
- Scale, Weighing-. B. M. Brooke. No. 1,144,687; June 29; Gaz. vol. 215; p. 1385.
- Scale, Weighing-. R. A. Forbes. No. 1,134,675; Apr. 6; Gaz. vol. 213; p. 216.
- Scale, Weighing-. C. H. Hapgood. No. 1,166,128; Dec. 28; Gaz. vol. 221; p. 1312.
- Scale, Weighing-. H. O. Hem. No. 1,130,900; Mar. 9; Gaz. vol. 212; p. 403.
- Scale, Weighing-. M. Münzner. No. 1,141,202; June 1; Gaz. vol. 215; p. 40.
- Scale, Weighing-. T. B. Powers. No. 1,159,416; Nov. 9; Gaz. vol. 220; p. 383.
- Scale, Weighing-. C. Sirch. No. 1,145,928; July 13; Gaz. vol. 216; p. 352.
- Scale, Weighing-. M. O. Skogstad and O. N. Finbraaten. No. 1,126,108; Jan. 26; Gaz. vol. 210; p. 1141.
- Scale, Weighing-. G. E. Tornsjö. No. 1,163,047; Dec. 7; Gaz. vol. 221; p. 109.
- Scales, Automatic compensator for. J. Nield. No. 1,133,657; Mar. 30; Gaz. vol. 212; p. 1509.
- Scales, Bearing for. C. E. Riedel. No. 1,143,647; June 22; Gaz. vol. 215; p. 998.
- Scales indicating the advance of their multiple records. A. Pestel. No. 1,124,510; Jan. 12; Gaz. vol. 210; p. 501.
- Scales, Loop-bearing for. C. E. Riedel. No. 1,147,751; July 27; Gaz. vol. 216; p. 1038.
- Scales, Means for supporting levers in track-. P. F. Hazen. No. 1,125,687; Jan. 19; Gaz. vol. 210; p. 958.
- Scales, Railway recording-. G. Goetz. No. 1,147,797; July 27; Gaz. vol. 216; p. 1053.
- Scales, Tare-beam for. E. Menz and J. L. Jackson. No. 1,155,259; Sept. 28; Gaz. vol. 218; p. 1108.
- Scarecrow and advertising device, Combined. S. Hunter. No. 1,142,326; June 8; Gaz. vol. 215; p. 472.
- Scarf. H. Cheney. No. 1,160,972; Nov. 16; Gaz. vol. 220; p. 988.
- Scarf fastener, Neck-. E. Morehouse. No. 1,146,645; July 13; Gaz. vol. 216; p. 606.
- Scarf-holder. C. M. Paquette. No. 1,134,900; Apr. 6; Gaz. vol. 213; p. 292.
- Scarf or necktie, Four-in-hand. W. K. Meyer. No. 1,127,485; Feb. 9; Gaz. vol. 211; p. 329.
- Scarf-pin fastener. L. Becker and K. Helne. No. 1,157,835; Oct. 26; Gaz. vol. 219; p. 994.
- Scarf-pin retainer. N. M. Kirshner. No. 1,154,408; Sept. 21; Gaz. vol. 218; p. 791.
- Scarifier. H. C. Clay. No. 1,155,795; Oct. 5; Gaz. vol. 219; p. 164.
- Scarifier. D. B. Cook. No. 1,134,945; Apr. 6; Gaz. vol. 213; p. 307.
- Scenery stop-iron. C. E. Mentzer. No. 1,161,000; Nov. 13; Gaz. vol. 220; p. 998.
- School appliance. E. C. Jacobs. No. 1,132,272; Mar. 16; Gaz. vol. 212; p. 922.
- Scissors. B. C. Cassidy. No. 1,165,226; Dec. 21; Gaz. vol. 221; p. 958.
- Scissors. A. Mattson. No. 1,162,796; Dec. 7; Gaz. vol. 221; p. 22.
- Scissors and shears, Tension device for. G. H. Beach. No. 1,148,429; July 27; Gaz. vol. 216; p. 1278.
- Scissors, Mechanically-operated. W. I. Jones. No. 1,129,684; Feb. 23; Gaz. vol. 211; p. 1179.
- Scissors or shears. E. Holtgrave. No. 1,152,633; Sept. 7; Gaz. vol. 218; p. 93.
- Scissors or shears. J. T. Wright. No. 1,137,687; Apr. 27; Gaz. vol. 213; p. 1395.
- Scleroscope. W. F. Shore. No. 1,154,663; Sept. 28; Gaz. vol. 218; p. 907.
- Scoop. J. I. Leary. No. 1,152,824; Sept. 7; Gaz. vol. 218; p. 164.
- Scoop. V. Natale. No. 1,160,748; Nov. 16; Gaz. vol. 220; p. 911.
- Scoop and sifter for flour and meal, Combined. J. W. Smith. No. 1,149,094; Aug. 3; Gaz. vol. 217; p. 214.
- Score-board. A. J. Brylawski. No. 1,149,021; Aug. 3; Gaz. vol. 217; p. 190.
- Scorer for auction-pinochle. C. E. Pine. No. 1,145,211; July 6; Gaz. vol. 216; p. 82.
- Scoring and cutting machine. J. W. Weiss and T. G. Dewling. No. 1,143,672; June 22; Gaz. vol. 215; p. 1006.
- Scoring and slitting mechanism. H. N. Gores. No. 1,129,481; Feb. 23; Gaz. vol. 211; p. 1112.
- Scoring device. L. N. Plante. No. 1,153,951; Sept. 21; Gaz. vol. 218; p. 633.
- Scotch. H. C. and J. C. Adam. No. 1,149,316; Aug. 10; Gaz. vol. 217; p. 399.
- Scouring greasy materials and recovering the solvent, Apparatus for. C. H. L. Wiese. No. 1,160,481; Nov. 16; Gaz. vol. 220; p. 813.
- Scouring-machine. J. E. Glidden. No. 1,126,749; Feb. 2; Gaz. vol. 211; p. 30.
- Scow, Self-dumping. F. P. Eastman. No. 1,138,463; May 4; Gaz. vol. 214; p. 261.
- Scrap pieces of material, Utilizing. E. W. Gerrish. No. 1,133,465; Mar. 30; Gaz. vol. 212; p. 1438.
- Scrap pieces of material, Utilizing. E. W. Gerrish. No. 1,148,584; Aug. 3; Gaz. vol. 217; p. 36.
- Scraper. W. A. Anderson. No. 1,141,917; June 8; Gaz. vol. 215; p. 329.
- Scraper. J. W. Gallespie. No. 1,124,006; Jan. 5; Gaz. vol. 210; p. 274.
- Scraper. H. A. Tuckett and V. A. Hellstrom. No. 1,143,465; June 15; Gaz. vol. 215; p. 910.
- Scraper and hoist apparatus. J. L. Alley. No. 1,158,097; Oct. 26; Gaz. vol. 219; p. 1088.
- Scraper and rake, Combined. F. C. Boynton. No. 1,138,840; May 11; Gaz. vol. 214; p. 432.
- Scraper apparatus. H. B. Sauerma. No. 1,134,558; Apr. 6; Gaz. vol. 213; p. 173.
- Scraper attachment. J. F. Brown. No. 1,155,039; Sept. 28; Gaz. vol. 218; p. 1032.
- Scraper, Boot-. P. H. Bauman. No. 1,154,228; Sept. 21; Gaz. vol. 218; p. 728.
- Scraper, Earth-. J. B. Cambers. No. 1,125,464; Jan. 19; Gaz. vol. 210; p. 877.
- Scraper, Floor-. A. Lackermann. No. 1,149,773; Aug. 10; Gaz. vol. 217; p. 564.
- Scraper, Floor-. W. Schweitzer. No. 1,149,864; Aug. 10; Gaz. vol. 217; p. 596.
- Scraper for roller-mills, Adjustable. F. Stacey. No. 1,139,286; May 11; Gaz. vol. 214; p. 570.
- Scraper, Road-. W. S. Bunker. No. 1,133,094; Mar. 23; Gaz. vol. 212; p. 1271.
- Scraper, Road-. P. C. Elsey. No. 1,166,197; Dec. 28; Gaz. vol. 221; p. 1338.
- Scraper self-dumping attachment. E. Samuelson. No. 1,128,191; Feb. 9; Gaz. vol. 211; p. 576.
- Scraper, Self-dumping fresno. J. F. Boone. No. 1,164,459; Dec. 14; Gaz. vol. 221; p. 649.
- Scraper, Track-. W. E. L. Dyer and D. E. Blair. No. 1,144,826; June 29; Gaz. vol. 215; p. 1434.
- Scraper, Wheeled. J. E. Petty. No. 1,137,230; Apr. 27; Gaz. vol. 213; p. 1237.
- Scrapers, Spring-latch for wheeled. H. B. Walton and J. M. Estes. No. 1,131,755; Mar. 16; Gaz. vol. 212; p. 733.
- Scraping and leveling device. L. L. Mayer. No. 1,162,182; Nov. 30; Gaz. vol. 220; p. 1506.
- Scraping off and granulating substances, Simultaneously. O. Berg. No. 1,137,181; Apr. 27; Gaz. vol. 213; p. 1219.
- Scratch-gage. E. J. Sylvester. No. 1,144,569; June 29; Gaz. vol. 215; p. 1344.
- Screen: See—
- Ash-screen.
 - Basket-screen.
 - Fire-screen.
 - Fish-screen.
 - Fly-screen.
 - Folding screen.
 - Furnace-screen.
 - Glare-screen.
 - Head-screen.
 - Metallie screen.
 - Paper-pulp screen.
 - Photographic screen.
 - Picture-screen.
 - Picture-projection screen.
 - Pulp-screen.
 - Pulsating screen.
 - Rice - cleaning - machine screen.
 - Roller-screen.
 - Sectional screen.
 - Self-rotating screen.
 - Shaking-screen.
 - Ventilating-screen.
 - Vibrating screen.
 - Window-screen.
 - Window and door screen.

Alphabetical list of inventions—Continued.

- Screen. C. Bauer. No. 1,130,465; Mar. 2; Gaz. vol. 212; p. 219.
- Screen. C. Bauer. No. 1,153,015; Sept. 7; Gaz. vol. 218; p. 232.
- Screen. W. A. Bishop. No. 1,152,390; Sept. 7; Gaz. vol. 218; p. 3.
- Screen. E. J. Faires. No. 1,148,764; Aug. 3; Gaz. vol. 217; p. 102.
- Screen. O. Kelly. No. 1,145,316; July 6; Gaz. vol. 216; p. 118.
- Screen. J. A. Lenhoff. No. 1,144,855; June 29; Gaz. vol. 215; p. 1445.
- Screen. J. A. Paradine. No. 1,127,502; Feb. 9; Gaz. vol. 211; p. 335.
- Screen. W. S. Potter. No. 1,139,447; May 11; Gaz. vol. 214; p. 645.
- Screen. A. Roth, Jr. No. 1,158,858; Nov. 2; Gaz. vol. 220; p. 158.
- Screen. L. Simon. No. 1,161,077; Nov. 23; Gaz. vol. 220; p. 1070.
- Screen. W. R. Walter. No. 1,126,140; Jan. 26; Gaz. vol. 210; p. 1152.
- Screen. E. C. White. No. 1,147,583; July 20; Gaz. vol. 216; p. 952.
- Screen and insect-trap, Combined. E. Lampel. No. 1,134,875; Apr. 6; Gaz. vol. 213; p. 284.
- Screen and shutter, Combined. A. N. Eaton. No. 1,138,944; May 11; Gaz. vol. 214; p. 467.
- Screen and storm-sash hanger. H. Greenfield. No. 1,154,920; Sept. 28; Gaz. vol. 218; p. 993.
- Screen and storm sash, Interchangeable. W. E. Hollenbeck. No. 1,147,093; July 20; Gaz. vol. 216; p. 781.
- Screen attachment. R. L. Lindstrom. No. 1,162,625; Nov. 30; Gaz. vol. 220; p. 1654.
- Screen attachment. W. S. Simons. No. 1,131,565; Mar. 9; Gaz. vol. 212; p. 631.
- Screen, curtain, and the like. W. B. Knapp. No. 1,138,668; May 11; Gaz. vol. 214; p. 369.
- Screen-door construction. E. T. Willhoite. No. 1,159,144; Nov. 2; Gaz. vol. 220; p. 253.
- Screen-door protector. J. Weber. No. 1,153,472; Sept. 14; Gaz. vol. 218; p. 431.
- Screen fastener, Window-. H. Giles. No. 1,160,505; Nov. 16; Gaz. vol. 220; p. 822.
- Screen for ores and coal and other material. E. S. McKinlay. No. 1,153,804; Sept. 14; Gaz. vol. 218; p. 547.
- Screen for separating sand from slime. W. E. Darrow. No. 1,133,461; Mar. 30; Gaz. vol. 212; p. 1437.
- Screen for the reception of images. J. P. Gilbert. No. 1,155,561; Oct. 5; Gaz. vol. 219; p. 82.
- Screen-frame. G. G. Bunker. No. 1,135,352; Apr. 13; Gaz. vol. 213; p. 492.
- Screen-frame, Foldable. W. H. Crawford. No. 1,137,702; Apr. 27; Gaz. vol. 213; p. 1399.
- Screen-guide, Metal. E. T. Burrowes. No. 1,152,074; Aug. 31; Gaz. vol. 217; p. 1527.
- Screen-hanger. E. J. Fellman. No. 1,155,412; Oct. 5; Gaz. vol. 219; p. 31.
- Screen hanger, Shaking-. P. A. Van Sickle. No. 1,142,921; June 15; Gaz. vol. 215; p. 719.
- Screen or separator. T. L. Sturtevant. No. 1,125,762; Jan. 19; Gaz. vol. 210; p. 984.
- Screen or separator. T. L. Sturtevant. No. 1,134,166; Apr. 6; Gaz. vol. 213; p. 30.
- Screen or separator. T. J. Sturtevant. No. 1,141,988; June 8; Gaz. vol. 215; p. 352.
- Screen-wire-cloth rack. W. G. Newman. No. 1,144,230; June 22; Gaz. vol. 215; p. 1201.
- Screen-wire, Mold for securing. C. C. Brooks. No. 1,135,760; Apr. 13; Gaz. vol. 213; p. 637.
- Screens and the like, Wiping device for. M. Houdaille. No. 1,146,497; July 13; Gaz. vol. 216; p. 555.
- Screens in window-casings, Device for retaining. A. J. Helvern. No. 1,164,716; Dec. 21; Gaz. vol. 221; p. 778.
- Screens, Molding for. E. L. Smith. No. 1,142,918; June 15; Gaz. vol. 215; p. 718.
- Screens, Projecting images on. R. H. Hough and L. J. Stern. No. 1,132,269; Mar. 16; Gaz. vol. 212; p. 921.
- Screening and sizing device, Vibratory. A. E. Custer. No. 1,131,478; Mar. 9; Gaz. vol. 212; p. 602.
- Screening apparatus. P. M. Kuehn. No. 1,150,318; Nov. 2; Gaz. vol. 220; p. 316.
- Screening apparatus. J. J. Phillips. No. 1,137,526; Apr. 27; Gaz. vol. 213; p. 1343.
- Screenings to pulp, Apparatus for reducing. W. N. Cornell. No. 1,150,099; Aug. 17; Gaz. vol. 217; p. 742.
- Screenings to pulp, Apparatus for reducing. W. N. Cornell. No. 1,150,100; Aug. 17; Gaz. vol. 217; p. 742.
- Screw. S. J. Moloney. No. 1,152,960; Sept. 7; Gaz. vol. 218; p. 214.
- Screw adjusting and locking device. J. Dudley and H. E. Plastow. No. 1,153,861; Sept. 14; Gaz. vol. 218; p. 569.
- Screw-anchors, Tool for setting. C. N. Ackerman and J. L. Johnson. No. 1,164,903; Dec. 21; Gaz. vol. 221; p. 843.
- Screw, Boat clamp-. C. Bennett. No. 1,147,070; July 20; Gaz. vol. 216; p. 773.
- Screw, bolt, or nail, Expandable. A. C. Hottenroth. No. 1,138,219; May 4; Gaz. vol. 214; p. 174.
- Screw-cutter. R. Y. Bovee. No. 1,151,857; Aug. 31; Gaz. vol. 217; p. 1453.
- Screw-cutter, Ratchet. A. P. Jensen. No. 1,128,786; Feb. 16; Gaz. vol. 211; p. 830.
- Screw-cutting die. W. Russell. No. 1,130,542; Mar. 2; Gaz. vol. 212; p. 247.
- Screw-cutting machine. A. Niggli. No. 1,132,026; Mar. 16; Gaz. vol. 212; p. 832.
- Screw-cutting tap. A. J. Prance. No. 1,132,536; Mar. 16; Gaz. vol. 212; p. 1018.
- Screw, Double-pressure set-. A. Mendelson. No. 1,160,932; Nov. 16; Gaz. vol. 220; p. 974.
- Screw-driver. W. E. Davis. No. 1,162,461; Nov. 30; Gaz. vol. 220; p. 1601.
- Screw-driver. B. G. Jansson. No. 1,162,928; Dec. 7; Gaz. vol. 221; p. 67.
- Screw-driver. S. Takacs. No. 1,139,083; May 11; Gaz. vol. 214; p. 518.
- Screw-driver. J. H. Tobin. No. 1,157,969; Oct. 26; Gaz. vol. 219; p. 1043.
- Screw-driver and other tool. E. L. Aiken. No. 1,158,765; Nov. 2; Gaz. vol. 220; p. 125.
- Screw driver and starter, Screw-holding. W. E. Stockton. No. 1,161,357; Nov. 23; Gaz. vol. 220; p. 1172.
- Screw-driver-centering device. H. A. Borresen. No. 1,126,370; Jan. 26; Gaz. vol. 210; p. 1235.
- Screw-driver screw-holding attachment. J. A. Gibson. No. 1,159,016; Nov. 2; Gaz. vol. 220; p. 209.
- Screw-head, Countersinking. E. M. Brumback. No. 1,151,861; Aug. 31; Gaz. vol. 217; p. 1455.
- Screw-head guard. G. Giloolley. No. 1,160,877; Nov. 16; Gaz. vol. 220; p. 954.
- Screw-holder. J. A. Demers. No. 1,136,513; Apr. 20; Gaz. vol. 213; p. 944.
- Screw-holding insert. C. N. Ackerman. No. 1,137,443; Apr. 27; Gaz. vol. 213; p. 1315.
- Screw, Hollow or socket. H. T. Hollowell. No. 1,153,488; Sept. 14; Gaz. vol. 218; p. 437.
- Screw hooks, eyes, &c., Making. F. E. Warner. No. 1,145,637; July 6; Gaz. vol. 216; p. 231.
- Screw, Jack-. D. S. Lansdowne. No. 1,154,519; Sept. 21; Gaz. vol. 218; p. 828.
- Screw, Jack-. J. A. Leland. No. 1,153,697; Sept. 14; Gaz. vol. 218; p. 510.
- Screw, Locking-. E. M. Hays. No. 1,150,114; Aug. 17; Gaz. vol. 217; p. 747.
- Screw-machine. J. C. Potter. No. 1,136,719; Apr. 20; Gaz. vol. 213; p. 1017.
- Screw-machine. C. A. Rich. No. 1,131,274; Mar. 9; Gaz. vol. 212; p. 531.
- Screw machine, Metal-. B. M. W. Hanson. No. 1,133,642; Mar. 30; Gaz. vol. 212; p. 1503.
- Screw machine, Metal-. B. M. W. Hanson. No. 1,140,323; May 18; Gaz. vol. 214; p. 987.
- Screw machine, Metal-. B. M. W. Hanson. No. 1,140,324; May 18; Gaz. vol. 214; p. 988.
- Screw machine, Metal-. B. M. W. Hanson. No. 1,140,325; May 18; Gaz. vol. 214; p. 988.
- Screw-machines, Feed-ringer for automatic. A. G. Belaire. No. 1,142,660; June 8; Gaz. vol. 215; p. 589.
- Screw machines, Pointing-tool carriage for wood-. C. T. Brennan. No. 1,163,885; Dec. 14; Gaz. vol. 221; p. 448.
- Screw-machines, Stop-cock for. R. R. Brown. No. 1,139,752; May 18; Gaz. vol. 214; p. 787.
- Screw nicking and turning machines, Feeding mechanism for. W. Avery. No. 1,150,240; Aug. 17; Gaz. vol. 217; p. 793.
- Screw-press. C. F. Stehlin. No. 1,152,857; Sept. 7; Gaz. vol. 218; p. 176.
- Screw-propeller. H. E. McDonald. No. 1,149,931; Aug. 10; Gaz. vol. 217; p. 621.
- Screw-propeller type, Fluid-impelling device of the. C. H. Campbell. No. 1,136,098; Apr. 20; Gaz. vol. 213; p. 795.
- Screw-setting instrument. D. H. Harnly. No. 1,155,724; Oct. 5; Gaz. vol. 219; p. 139.
- Screw-slotting machine. C. T. Brennan. No. 1,132,553; Mar. 23; Gaz. vol. 212; p. 1071.
- Screw-slotting machine. T. Z. Carpenter. No. 1,153,540; Sept. 14; Gaz. vol. 218; p. 456.
- Screw, Temper-. F. W. Leidecker. No. 1,157,704; Oct. 26; Gaz. vol. 219; p. 950.
- Screw-threading dies and hollow mills, Adjusting means for spring. L. A. Bartels. No. 1,164,567; Dec. 14; Gaz. vol. 221; p. 685.
- Screw-threading machine. T. Z. Carpenter. No. 1,143,942; June 22; Gaz. vol. 215; p. 1098.
- Screw-threading mechanism. G. O. Gridley. No. 1,130,398; Mar. 2; Gaz. vol. 212; p. 194.
- Screws, cap-screws, and the like, Device for upsetting set-. T. Ferry. No. 1,146,145; July 13; Gaz. vol. 216; p. 430.
- Screws, Machine for inserting lag-. M. Rothfuss. No. 1,149,222; Aug. 10; Gaz. vol. 217; p. 363.
- Screws, Manufacturing. L. W. Andersen. No. 1,145,737; July 6; Gaz. vol. 216; p. 268.
- Scribing instrument. P. L. Charbonnier. No. 1,126,390; Jan. 26; Gaz. vol. 210; p. 1241.
- Scruber, Fountain-. E. C. Albright. No. 1,147,667; July 20; Gaz. vol. 216; p. 983.
- Scrubbing and mopping machine. E. Gallo. No. 1,150,025; Aug. 17; Gaz. vol. 217; p. 715.
- Scrubbing device. C. H. Clark. No. 1,146,308; July 13; Gaz. vol. 216; p. 486.

Alphabetical list of inventions—Continued.

- Scrubbing-machine. F. Adams. No. 1,160,031; Nov. 9; Gaz. vol. 220; p. 602.
- Scrubbing-machine. I. Hirvi. No. 1,146,565; July 13; Gaz. vol. 216; p. 579.
- Scrubbing-machine. F. Peterson. No. 1,131,158; Mar. 9; Gaz. vol. 212; p. 490.
- Scrubbing-machine. E. Ross. No. 1,164,216; Dec. 14; Gaz. vol. 221; p. 562.
- Scrubbing-machine brush adjustment. W. S. Finnell. No. 1,139,407; May 11; Gaz. vol. 214; p. 629.
- Scrubbing machine, Floor-. R. Goode. No. 1,126,981; Feb. 2; Gaz. vol. 211; p. 111.
- Sculpturing-machine. E. M. Coyne. No. 1,163,511; Dec. 7; Gaz. vol. 221; p. 271.
- Scuttle-cover opener. J. Tagner and W. Münch. No. 1,130,037; Mar. 2; Gaz. vol. 212; p. 63.
- Seythe. M. M. Bartlett. No. 1,133,423; Mar. 30; Gaz. vol. 212; p. 1423.
- Seythe-snathe. H. B. Hewitt. No. 1,133,376; Mar. 30; Gaz. vol. 212; p. 1407.
- Seythe-snathe. H. B. Hewitt. No. 1,133,473; Mar. 30; Gaz. vol. 212; p. 1440.
- Seal. R. J. Baker. No. 1,163,124; Dec. 7; Gaz. vol. 221; p. 135.
- Seal. A. De Rosa. No. 1,145,354; July 6; Gaz. vol. 216; p. 131.
- Seal. R. A. Edgar. No. 1,140,133; May 18; Gaz. vol. 214; p. 924.
- Seal. L. S. Flatau. No. 1,137,391; Apr. 27; Gaz. vol. 213; p. 1296.
- Seal. L. S. Flatau. No. 1,137,392; Apr. 27; Gaz. vol. 213; p. 1297.
- Seal. J. Fritz, Sr. No. 1,127,984; Feb. 9; Gaz. vol. 211; p. 504.
- Seal. R. P. Jackson. No. 1,166,217; Dec. 28; Gaz. vol. 221; p. 1345.
- Seal. J. Klein. No. 1,127,020; Feb. 2; Gaz. vol. 211; p. 126.
- Seal. M. B. Larson. No. 1,155,585; Oct. 5; Gaz. vol. 219; p. 90.
- Seal. E. H. Meadows. No. 1,147,529; July 20; Gaz. vol. 216; p. 934.
- Seal. P. J. Mitten. No. 1,139,556; May 18; Gaz. vol. 214; p. 718.
- Seal. W. T. Peyton. No. 1,132,970; Mar. 23; Gaz. vol. 212; p. 1227.
- Seal and cap. Bottle. E. Bluthardt. No. 1,131,201; Mar. 9; Gaz. vol. 212; p. 506.
- Seal and mount. E. Tyden. No. 1,128,803; Feb. 16; Gaz. vol. 211; p. 836.
- Seal and spout. Can. F. H. Griffin. No. 1,144,409; June 29; Gaz. vol. 215; p. 1291.
- Seal, Bag-. W. M. Brooks. No. 1,126,376; Jan. 26; Gaz. vol. 210; p. 1237.
- Seal, Bag-. W. M. Brooks. No. 1,150,336; Aug. 17; Gaz. vol. 217; p. 826.
- Seal, Bag-. W. M. Brooks. No. 1,151,509; Aug. 24; Gaz. vol. 217; p. 1285.
- Seal, Bottle-. A. H. Braecklein. No. 1,145,666; July 6; Gaz. vol. 216; p. 241.
- Seal, Bottle-. R. P. Buflington. No. 1,160,571; Nov. 16; Gaz. vol. 220; p. 845.
- Seal, Bottle-. M. L. Goldman. No. 1,146,063; July 13; Gaz. vol. 216; p. 401.
- Seal, Bottle-. A. C. Grunwald. No. 1,123,733; Jan. 5; Gaz. vol. 210; p. 183.
- Seal, Bottle-. W. R. Uchtmann. No. 1,155,773; Oct. 5; Gaz. vol. 219; p. 155.
- Seal, Can-nozzle plug-. F. Wetterberg. No. 1,124,083; Jan. 5; Gaz. vol. 210; p. 300.
- Seal, Car-. L. S. Gibson. No. 1,132,006; Mar. 16; Gaz. vol. 212; p. 825.
- Seal, Car-. W. C. Martineau. No. 1,133,303; Mar. 30; Gaz. vol. 212; p. 1381.
- Seal, Car-. J. A. O'Connor and E. Fitzgerald. No. 1,149,460; Aug. 10; Gaz. vol. 217; p. 449.
- Seal, Car-. J. A. O'Connor and E. Fitzgerald. No. 1,149,461; Aug. 10; Gaz. vol. 217; p. 450.
- Seal, Car-. J. A. O'Connor and E. Fitzgerald. No. 1,149,462; Aug. 10; Gaz. vol. 217; p. 450.
- Seal, Car-. G. C. Peckham. No. 1,163,554; Dec. 7; Gaz. vol. 221; p. 286.
- Seal, Car-. L. J. Richardson. No. 1,163,857; Dec. 14; Gaz. vol. 221; p. 439.
- Seal, Car-. H. R. Romberger. No. 1,144,792; June 29; Gaz. vol. 215; p. 1422.
- Seal, Car-. V. G. Smith. No. 1,136,447; Apr. 20; Gaz. vol. 213; p. 920.
- Seal, Car-door. W. F. Fraser. No. 1,141,895; June 1; Gaz. vol. 215; p. 283.
- Seal, Cord-fastening. O. D. Bell. No. 1,160,034; Nov. 9; Gaz. vol. 220; p. 603.
- Seal, Crown-cork. G. F. Knox. No. 1,129,578; Feb. 23; Gaz. vol. 211; p. 1145.
- Seal-fastening. T. E. Murray and G. K. Jessup. No. 1,139,052; May 11; Gaz. vol. 214; p. 507.
- Seal for bottle-stoppers and the like and making the same. Cork. H. F. Busch. No. 1,131,326; Mar. 9; Gaz. vol. 212; p. 550.
- Seal for bottles and the like containers. M. P. Freebey. No. 1,154,853; Sept. 28; Gaz. vol. 218; p. 970.
- Seal for railway-car doors. J. W. Ross. No. 1,143,441; June 15; Gaz. vol. 215; p. 904.
- Seal for receptacles, Safety-. G. G. Fryer. No. 1,157,685; Oct. 26; Gaz. vol. 219; p. 943.
- Seal for sheet-metal containing vessels. J. M. Hothersall. No. 1,148,683; Aug. 3; Gaz. vol. 217; p. 72.
- Seal for vacuum apparatus. F. G. Keyes. No. 1,159,335; Nov. 2; Gaz. vol. 220; p. 322.
- Seal, Freight-car. C. F. Hradecky. No. 1,151,183; Aug. 24; Gaz. vol. 217; p. 1175.
- Seal, Garment-tag. W. M. Brooks. No. 1,152,142; Aug. 31; Gaz. vol. 217; p. 1550.
- Seal, Gas-tight. K. Mensing. No. 1,141,133; June 1; Gaz. vol. 215; p. 15.
- Seal-lock for fare-boxes. D. Quintal. No. 1,161,156; Nov. 23; Gaz. vol. 220; p. 1098.
- Seal-locking device. E. Tyden. No. 1,155,768; Oct. 5; Gaz. vol. 219; p. 153.
- Seal-locking device. E. Tyden. No. 1,155,769; Oct. 5; Gaz. vol. 219; p. 154.
- Seal-locking device. E. Tyden. No. 1,155,770; Oct. 5; Gaz. vol. 219; p. 154.
- Seal-locking device. E. Tyden. No. 1,155,771; Oct. 5; Gaz. vol. 219; p. 155.
- Seal-locking device. E. Tyden. No. 1,155,772; Oct. 5; Gaz. vol. 219; p. 155.
- Seal, Mechanical. F. P. Píeghar. No. 1,126,268; Jan. 26; Gaz. vol. 210; p. 1199.
- Seal, Meter-. J. G. Gorgen. No. 1,159,211; Nov. 2; Gaz. vol. 220; p. 279.
- Seal, Paper-bag. A. J. Smith. No. 1,128,192; Feb. 9; Gaz. vol. 211; p. 576.
- Seal, Pin-. M. A. Platt. No. 1,125,915; Jan. 19; Gaz. vol. 210; p. 1037.
- Seal-press and cord-tightener. W. M. Brooks. No. 1,147,845; July 27; Gaz. vol. 216; p. 1071.
- Seal-remover, seal-replacer, and lid, combined. Milk-bottle. J. W. Keys. No. 1,133,290; Mar. 30; Gaz. vol. 212; p. 1376.
- Seal-retainer. J. Mohn. No. 1,123,569; Jan. 5; Gaz. vol. 210; p. 126.
- Seal, Self-locking. W. A. Bramberry. No. 1,123,838; Jan. 5; Gaz. vol. 210; p. 218.
- Seal, Self-locking. W. M. Brooks. No. 1,137,183; Apr. 27; Gaz. vol. 213; p. 1219.
- Seal, Self-locking. H. M. Cooper. No. 1,160,855; Nov. 16; Gaz. vol. 220; p. 947.
- Seal, Self-locking. H. M. Cooper. No. 1,160,856; Nov. 16; Gaz. vol. 220; p. 947.
- Seal, Self-locking. E. Tyden. No. 1,146,462; July 13; Gaz. vol. 216; p. 543.
- Seal, Self-locking. E. Tyden. No. 1,162,827; Dec. 7; Gaz. vol. 221; p. 34.
- Seal, Self-locking car-. W. M. Brooks. No. 1,163,614; Dec. 7; Gaz. vol. 221; p. 308.
- Seal, Shackle-. W. M. Brooks. No. 1,152,143; Aug. 31; Gaz. vol. 217; p. 1551.
- Seal, Snap-. E. J. Brooks. No. 1,138,350; May 4; Gaz. vol. 214; p. 222.
- Seal, Stop-cock. B. G. Campbell. No. 1,131,821; Mar. 16; Gaz. vol. 212; p. 759.
- Seal, Tag or ticket. M. O. Anthony. No. 1,132,897; Mar. 23; Gaz. vol. 212; p. 1198.
- Seals, Attachment for pocket-. H. H. Wenthe. No. 1,165,474; Dec. 28; Gaz. vol. 221; p. 1081.
- Seals, Machine for applying bottle-. C. Winter. No. 1,155,119; Sept. 28; Gaz. vol. 218; p. 1063.
- Seals, Machine for selecting, treating, and applying closure-. A. Westlake. No. 1,137,820; May 4; Gaz. vol. 214; p. 34.
- Sealed wrapped packages, Machine for forming. J. D. Reifsnnyder and G. H. Fath. No. 1,131,792; Mar. 16; Gaz. vol. 212; p. 748.
- Sealer, Domestic vacuum-. G. B. Sinclair and S. E. Menough. No. 1,145,810; July 6; Gaz. vol. 216; p. 292.
- Sealing and crimping tubes, Machine for. E. W. Gaube. No. 1,155,143; Sept. 28; Gaz. vol. 218; p. 1071.
- Sealing and stamp-affixing machine, Envelop-. J. J. McDade. No. 1,153,325; Sept. 14; Gaz. vol. 218; p. 377.
- Sealing and stamp-affixing machine, Envelop-. J. J. McDade. No. 1,153,326; Sept. 14; Gaz. vol. 218; p. 377.
- Sealing and stamping machine, Envelop-. J. E. Lederman. No. 1,157,113; Oct. 19; Gaz. vol. 219; p. 679.
- Sealing and stamping machine, Envelop-. J. J. Schermack. No. 1,146,902; July 20; Gaz. vol. 216; p. 714.
- Sealing apparatus for wrappers. P. Jacobsen. No. 1,155,929; Oct. 5; Gaz. vol. 219; p. 210.
- Sealing apparatus, Hermetic-. W. A. Lorenz and J. Merritt. No. 1,125,138; Jan. 19; Gaz. vol. 210; p. 760.
- Sealing boxes. L. D. Morton. No. 1,144,773; June 29; Gaz. vol. 215; p. 1416.
- Sealing cans. G. S. Hume. No. 1,141,061; May 25; Gaz. vol. 214; p. 1281.
- Sealing-closures. H. E. Townsend. No. 1,154,352; Sept. 21; Gaz. vol. 218; p. 772.
- Sealing device. F. W. Clary and C. H. Bissell. No. 1,139,490; May 18; Gaz. vol. 214; p. 695.
- Sealing device. J. D. Eldridge. No. 1,137,592; Apr. 27; Gaz. vol. 213; p. 1364.
- Sealing device. F. Evans. No. 1,146,754; July 13; Gaz. vol. 216; p. 643.

Alphabetical list of inventions—Continued.

- Sealing device. A. L. Foreman. No. 1,124,005; Jan. 5; Gaz. vol. 210; p. 274.
- Sealing device. G. E. Palmer. No. 1,146,593; July 13; Gaz. vol. 216; p. 588.
- Sealing device, Envelop-. M. V. Ahern. No. 1,135,932; Apr. 13; Gaz. vol. 213; p. 695.
- Sealing device for cocks. C. A. Caldwell. No. 1,158,631; Nov. 2; Gaz. vol. 220; p. 78.
- Sealing device, Window-. A. K. Ternstedt. No. 1,125,765; Jan. 19; Gaz. vol. 210; p. 985.
- Sealing discharge-passages of centrifugalizing-machines and the like. S. H. Hall. No. 1,149,578; Aug. 10; Gaz. vol. 217; p. 491.
- Sealing fiber boxes, cartons, and the like, Means for. J. C. Johnson. No. 1,142,813; June 15; Gaz. vol. 215; p. 681.
- Sealing fiber boxes, cartons, and the like, Means for use in. J. C. Johnson. No. 1,154,639; Sept. 28; Gaz. vol. 218; p. 899.
- Sealing folding boxes, Cap for. H. S. Jewell. No. 1,126,021; Jan. 26; Gaz. vol. 210; p. 1107.
- Sealing-in machine. F. W. Bartlett. No. 1,124,836; Jan. 12; Gaz. vol. 210; p. 456.
- Sealing-machine. R. Magrane. No. 1,134,070; Mar. 30; Gaz. vol. 212; p. 1649.
- Sealing machine, Bottle-. A. Calleson. No. 1,153,174; Sept. 7; Gaz. vol. 218; p. 285.
- Sealing machine, Bottle-. J. B. Cassidy. No. 1,161,924; Nov. 30; Gaz. vol. 220; p. 1415.
- Sealing machine, Bottle-. C. J. Lawson. No. 1,141,350; June 1; Gaz. vol. 215; p. 93.
- Sealing machine, Bread-wrapper-. E. F. Doolittle. No. 1,129,963; Mar. 2; Gaz. vol. 212; p. 44.
- Sealing machine, Can-. J. C. Bowers. No. 1,136,399; Apr. 20; Gaz. vol. 213; p. 904.
- Sealing machine, Can-. F. N. Dorland. No. 1,160,055; Nov. 9; Gaz. vol. 220; p. 609.
- Sealing machine, Can-. R. and A. S. Reid. No. 1,136,400; Apr. 20; Gaz. vol. 213; p. 904.
- Sealing machine, Carton-. E. G. Tremaine. No. 1,141,156; June 1; Gaz. vol. 215; p. 23.
- Sealing machine, Envelop-. G. J. Albrecht. No. 1,125,926; Jan. 26; Gaz. vol. 210; p. 1073.
- Sealing machine, Envelop-. G. J. Albrecht. No. 1,125,927; Jan. 26; Gaz. vol. 210; p. 1073.
- Sealing machine, Envelop-. G. J. Albrecht. No. 1,146,746; July 13; Gaz. vol. 216; p. 639.
- Sealing machine, Envelop-. G. J. Albrecht and S. L. Long. No. 1,144,955; June 29; Gaz. vol. 215; p. 1477.
- Sealing machine, Envelop-. C. H. Davis. No. 1,139,499; May 18; Gaz. vol. 214; p. 699.
- Sealing machine for sealed cartons, Top-flap-. F. B. Martin. No. 1,134,476; Apr. 6; Gaz. vol. 213; p. 143.
- Sealing-machine of the hot-water type. I. L. Delaney and J. W. Patterson. No. 1,142,801; June 15; Gaz. vol. 215; p. 677.
- Sealing machine, Package-. C. F. Chapman. No. 1,140,574; May 25; Gaz. vol. 214; p. 1112.
- Sealing machine, Package-. L. D. Morton. No. 1,138,238; May 4; Gaz. vol. 214; p. 180.
- Sealing machine, Vacuum-. J. V. Hull. No. 1,134,065; Mar. 30; Gaz. vol. 212; p. 1648.
- Sealing machines, Seal-feed for bottle-. C. Winter. No. 1,141,165; June 1; Gaz. vol. 215; p. 26.
- Sealing means for boxes. H. B. Walter. No. 1,140,927; May 25; Gaz. vol. 214; p. 1236.
- Sealing metal boxes or cans, Machine for. J. C. Bowers, E. E. Barber, and A. D. Grover. No. 1,136,401; Apr. 20; Gaz. vol. 213; p. 905.
- Sealing or closing letters and like packages, Device for. P. Healy. No. 1,155,567; Oct. 5; Gaz. vol. 219; p. 84.
- Sealing packages. H. S. Jewell. No. 1,126,022; Jan. 26; Gaz. vol. 210; p. 1108.
- Sealing packages. H. S. Jewell. No. 1,129,199; Feb. 23; Gaz. vol. 211; p. 1012.
- Sealing the edges of refrigerator-doors, Means for. H. F. Schwartzberg. No. 1,126,885; Feb. 2; Gaz. vol. 211; p. 78.
- Sealing the ends of rolls of cloth, Means for. D. Gessner. No. 1,136,224; Apr. 20; Gaz. vol. 213; p. 840.
- Sealing tool or chuck for bottles. G. Lidsen. No. 1,128,254; Feb. 9; Gaz. vol. 211; p. 597.
- Sealing wrappers upon loaves of bread, Machine for. W. E. Miller. No. 1,142,976; June 15; Gaz. vol. 215; p. 739.
- Seam. J. N. Schwander. No. 1,144,947; June 29; Gaz. vol. 215; p. 1474.
- Seam. F. E. Valois. No. 1,142,288; June 8; Gaz. vol. 215; p. 459.
- Seam-producing machine. H. J. Dahl. No. 1,129,854; Mar. 2; Gaz. vol. 212; p. 8.
- Seam-rubbing machine. V. P. Buck. No. 1,146,761; June 13; Gaz. vol. 216; p. 645.
- Seams, Means for applying adhesive to. C. M. Abbott. No. 1,126,156; Jan. 26; Gaz. vol. 210; p. 1157.
- Seams, Producing. H. J. Dahl. No. 1,129,853; Mar. 2; Gaz. vol. 212; p. 7.
- Seamer, Multiple double-. L. C. Krummel. No. 1,151,478; Aug. 24; Gaz. vol. 217; p. 1273.
- Seaming-machine. O. G. Lyon. No. 1,136,544; Apr. 20; Gaz. vol. 213; p. 955.
- Seaming machine, Double-. P. Kruse. No. 1,143,976; June 22; Gaz. vol. 215; p. 1110.
- Seaming machine, Double-. C. J. Nelson, O. Ostlin, and E. V. Swangren. No. 1,161,953; Nov. 30; Gaz. vol. 220; p. 1426.
- Search-light firearm. E. S. Ward. No. 1,150,796; Aug. 17; Gaz. vol. 217; p. 984.
- Search-light protective device. G. Hennings. No. 1,164,282; Dec. 14; Gaz. vol. 221; p. 586.
- Search or head light. F. J. Heiberger, Jr., and M. C. Stuart. No. 1,149,441; Aug. 10; Gaz. vol. 217; p. 444.
- Search or head light shield. F. J. Heiberger, Jr., and M. C. Stuart. No. 1,145,414; July 6; Gaz. vol. 216; p. 153.
- Seasoning-machine. G. W. Baker. No. 1,162,547; Nov. 30; Gaz. vol. 220; p. 1630.
- Seat: See—
- Adjustable seat.
 - Automobile-seat.
 - Automobile running-board seat.
 - Bath-tub seat.
 - Car-seat.
 - Car reversible seat.
 - Chair-seat.
 - Child's seat.
 - Closet-seat.
 - Collapsible seat.
 - Cushion-seat.
 - Cycle-seat.
 - Folding seat.
 - Infant's seat.
 - Knockdown seat.
 - Milk-seat.
 - Pocket-seat.
 - Reversible seat.
 - Rolling seat.
 - Runabout-seat.
 - Shingling-seat.
 - Ship's deck-seat.
 - Spring-seat.
 - Tandem seat.
 - Toilet-seat.
 - Tub-seat.
 - Vehicle-seat.
 - Wagon-seat.
 - Wall-seat.
 - Water-closet seat.
 - Window-sill seat.
- Seat. B. Borland. No. 1,156,834; Oct. 12; Gaz. vol. 219; p. 550.
- Seat. E. Bragg. No. 1,161,604; Nov. 23; Gaz. vol. 220; p. 1257.
- Seat. F. J. Chipps. No. 1,146,236; July 13; Gaz. vol. 216; p. 462.
- Seat. G. E. Cleveland. No. 1,128,411; Feb. 16; Gaz. vol. 211; p. 700.
- Seat. G. F. Danielson. No. 1,145,567; July 6; Gaz. vol. 216; p. 206.
- Seat and paper pad, Combination. F. J. Graves. No. 1,159,928; Nov. 9; Gaz. vol. 220; p. 567.
- Seat-back spring. R. E. Schultz. No. 1,152,230; Aug. 31; Gaz. vol. 217; p. 1581.
- Seat-controlled closet. J. A. Salzman. No. 1,145,216; July 6; Gaz. vol. 216; p. 83.
- Seat-cover apparatus, Sanitary-. L. A. Jiranek. No. 1,163,667; Dec. 14; Gaz. vol. 221; p. 370.
- Seat-cover, Sanitary. H. E. W. Meyer. No. 1,155,260; Sept. 28; Gaz. vol. 218; p. 1108.
- Seat cover, Toilet-. J. Sivak, A. Nagy, and L. Banduray. No. 1,148,867; Aug. 3; Gaz. vol. 217; p. 136.
- Seat cushion and cover. W. J. Smith. No. 1,156,939; Oct. 19; Gaz. vol. 219; p. 617.
- Seat-mount. E. Kaufmann and R. J. Holt. No. 1,152,100; Aug. 31; Gaz. vol. 217; p. 1536.
- Seat-mount. E. Kaufmann and R. J. Holt. No. 1,152,102; Aug. 31; Gaz. vol. 217; p. 1536.
- Seat-spring. C. A. Dorsey. No. 1,149,741; Aug. 10; Gaz. vol. 217; p. 551.
- Seat-trimmer. A. Laing. No. 1,134,874; Apr. 6; Gaz. vol. 213; p. 284.
- Seating. E. G. Budd. No. 1,159,356; Nov. 9; Gaz. vol. 220; p. 361.
- Seating for auditoriums. H. V. Pollard. No. 1,133,500; Mar. 30; Gaz. vol. 212; p. 1450.
- Seaweed, Manufacture of products from. T. Ingham. No. 1,162,926; Dec. 7; Gaz. vol. 221; p. 67.
- Secondary or storage battery. B. Ford. No. 1,150,023; Aug. 17; Gaz. vol. 217; p. 714.
- Secondary or storage battery. B. Ford. No. 1,163,991; Dec. 14; Gaz. vol. 221; p. 485.
- Secondary or storage battery. B. Ford. No. 1,163,993; Dec. 14; Gaz. vol. 221; p. 486.
- Secondary or storage battery. C. Hodge. No. 1,125,321; Jan. 19; Gaz. vol. 210; p. 826.
- Secondary or storage battery. W. S. O'Connor. No. 1,164,746; Dec. 21; Gaz. vol. 221; p. 788.
- Secondary rack. C. L. Peirce, Jr. No. 1,152,211; Aug. 31; Gaz. vol. 217; p. 1574.
- Section-switch, Automatic. W. Schaake. No. 1,126,092; Jan. 26; Gaz. vol. 210; p. 1135.
- Sectional boiler. C. B. Thompson. No. 1,146,743; July 13; Gaz. vol. 216; p. 638.
- Sectional kiln. G. R. Mumba. No. 1,143,549; June 15; Gaz. vol. 215; p. 938.
- Sectional mold. R. R. Robertson and C. G. Naylor. No. 1,136,439; Apr. 20; Gaz. vol. 213; p. 918.
- Sectional screen. B. C. Rockwell. No. 1,126,086; Jan. 26; Gaz. vol. 210; p. 1133.
- Securing an apertured member to a cylindrical member. G. M. Bennett. No. 1,157,666; Oct. 26; Gaz. vol. 219; p. 937.
- Securing and releasing appliance. F. De Mars. No. 1,162,580; Nov. 30; Gaz. vol. 220; p. 1640.
- Securing device. H. J. Lord. No. 1,146,083; July 13; Gaz. vol. 216; p. 408.
- Seed-cleaner. D. E. Skirvin. No. 1,133,069; Mar. 23; Gaz. vol. 212; p. 1263.

Alphabetical list of inventions—Continued.

- Seed-delinting machine, Cotton-. C. R. Pasley. No. 1,131,545; Mar. 9; Gaz. vol. 212; p. 624.
- Seed drier, Cotton-. A. B. Carr. No. 1,150,996; Aug. 24; Gaz. vol. 217; p. 1111.
- Seed-drill. J. C. Unzelman. No. 1,129,823; Feb. 23; Gaz. vol. 211; p. 1225.
- Seed-drill. G. M. Winwood, Jr. No. 1,133,351; Mar. 30; Gaz. vol. 212; p. 1397.
- Seed-germinator. E. E. Marshall. No. 1,130,752; Mar. 9; Gaz. vol. 212; p. 352.
- Seed-grader. R. W. Tipton. No. 1,125,603; Jan. 19; Gaz. vol. 210; p. 926.
- Seed-grading device. W. L. Leach. No. 1,124,036; Jan. 5; Gaz. vol. 210; p. 284.
- Seed-package. E. E. and D. E. Gray. No. 1,160,279; Nov. 16; Gaz. vol. 220; p. 742.
- Seed press, Cotton-. W. M. Neale. No. 1,153,103; Sept. 7; Gaz. vol. 218; p. 262.
- Seed separating and grading process and apparatus. H. M. Sutton and W. L. and E. G. Steele. No. 1,133,760; Mar. 30; Gaz. vol. 212; p. 1545.
- Seed, Sterilizing and preserving cotton-. E. R. Barrow. No. 1,155,194; Sept. 28; Gaz. vol. 218; p. 1089.
- Seed-stripper. E. L. Glaze. No. 1,133,720; Mar. 30; Gaz. vol. 212; p. 1531.
- Seed-tape. W. N. McComb. No. 1,143,980; June 22; Gaz. vol. 215; p. 1111.
- Seed-tape-forming machine. E. E. and D. E. Gray. No. 1,160,278; Nov. 16; Gaz. vol. 220; p. 742.
- Seed-testing device. G. C. Harnden. No. 1,123,281; Jan. 5; Gaz. vol. 210; p. 27.
- Seed, Treating cotton-. A. B. Carr. No. 1,141,104; June 1; Gaz. vol. 215; p. 5.
- Seeds and grain, Apparatus for cleaning and separating. F. M. Dossor. No. 1,154,102; Sept. 21; Gaz. vol. 218; p. 686.
- Seeds from the pods in which they grow, Apparatus for separating fiber-covered. E. G. Trypani. No. 1,146,824; July 20; Gaz. vol. 216; p. 686.
- Seeder. J. F. Needham. No. 1,160,526; Nov. 16; Gaz. vol. 220; p. 829.
- Seeder. F. White. No. 1,137,683; Apr. 27; Gaz. vol. 213; p. 1394.
- Seeder and guano-distributor, Combined. C. Hennessee. No. 1,124,616; Jan. 12; Gaz. vol. 210; p. 540.
- Seine. A. Mattson. No. 1,141,128; June 1; Gaz. vol. 215; p. 13.
- Seine-hauling device, Shrimp-. M. Fountain, Jr. No. 1,133,120; Mar. 23; Gaz. vol. 212; p. 1280.
- Seine or net, Fish. P. Smagel. No. 1,128,376; Feb. 16; Gaz. vol. 211; p. 688.
- Seine-puller machine. E. Bergman. No. 1,164,629; Dec. 21; Gaz. vol. 221; p. 748.
- Selecting mechanism. B. F. Merritt. No. 1,161,500; Nov. 23; Gaz. vol. 220; p. 1222.
- Selective controlling apparatus. F. R. McBerty. No. 1,127,466; Feb. 9; Gaz. vol. 211; p. 322.
- Selective device. H. Taylor. No. 1,165,465; Dec. 28; Gaz. vol. 221; p. 1078.
- Selective switch. E. E. Kleinschmidt. No. 1,140,749; May 25; Gaz. vol. 214; p. 1171.
- Selective system and apparatus. J. F. Engle. No. 1,156,352; Oct. 12; Gaz. vol. 219; p. 380.
- Selective system and apparatus, Wireless. J. H. Hammond, Jr. No. 1,154,628; Sept. 28; Gaz. vol. 218; p. 895.
- Selective systems, Impulse-transmitter for. G. Brown. No. 1,155,640; Oct. 5; Gaz. vol. 219; p. 109.
- Selector, Multiple-brush. E. B. Craft and J. N. Reynolds. No. 1,123,695; Jan. 5; Gaz. vol. 210; p. 169.
- Selector, Multiple-brush. E. B. Craft and J. N. Reynolds. No. 1,123,696; Jan. 5; Gaz. vol. 210; p. 170.
- Selector, Multiple-brush. A. F. Dixon. No. 1,123,706; Jan. 5; Gaz. vol. 210; p. 173.
- Selector, Multiple-brush. J. N. Reynolds. No. 1,123,799; Jan. 5; Gaz. vol. 210; p. 205.
- Selector-switch. H. G. Dietl. No. 1,126,727; Feb. 2; Gaz. vol. 211; p. 21.
- Selector-switch. O. F. Forsberg. No. 1,125,682; Jan. 19; Gaz. vol. 210; p. 956.
- Selector-switch. J. N. Reynolds. No. 1,139,722; May 18; Gaz. vol. 214; p. 778.
- Selenium-cell regulator. M. Moskowitz. No. 1,150,953; Aug. 24; Gaz. vol. 217; p. 1097.
- Self-cleaning comb. E. Hibbs. No. 1,135,184; Apr. 13; Gaz. vol. 213; p. 436.
- Self-cleaning rake. N. J. Clute. No. 1,158,640; Nov. 2; Gaz. vol. 220; p. 82.
- Self-cleaning rake. C. L. Ferguson and R. B. Stitson. No. 1,128,239; Feb. 9; Gaz. vol. 211; p. 591.
- Self-cleaning rake. F. G. Sigrist. No. 1,145,809; July 6; Gaz. vol. 216; p. 291.
- Self-cleaning rake. J. H. Ubelaker. No. 1,155,174; Sept. 28; Gaz. vol. 218; p. 1083.
- Self-controlling heater. A. C. Brantingham. No. 1,158,624; Nov. 2; Gaz. vol. 220; p. 76.
- Self-heating iron. F. H. Hartzell. No. 1,139,862; May 18; Gaz. vol. 214; p. 827.
- Self-leveling table. J. C. Richmond. No. 1,153,828; Sept. 14; Gaz. vol. 218; p. 556.
- Self-locking box. R. O. Hammond. No. 1,130,272; Mar. 2; Gaz. vol. 212; p. 150.
- Self-locking handle. S. G. Down. No. 1,129,340; Feb. 23; Gaz. vol. 211; p. 1061.
- Self-locking pin. G. C. Brown. No. 1,139,337; May 11; Gaz. vol. 214; p. 604.
- Self-locking pin. T. F. Mullaney. No. 1,152,749; Sept. 7; Gaz. vol. 218; p. 135.
- Self-locking receptacle. C. N. Frey. No. 1,155,719; Oct. 5; Gaz. vol. 219; p. 137.
- Self-locking switch. F. L. Howard. No. 1,143,763; June 22; Gaz. vol. 215; p. 1036.
- Self-lubricating bolt. S. G. Barnard. No. 1,145,288; July 6; Gaz. vol. 216; p. 109.
- Self-lubricating bolt. D. H. Twaits. No. 1,155,111; Sept. 28; Gaz. vol. 218; p. 1060.
- Self-lubricating bolt, Automatic. D. Landau and H. G. Farr. No. 1,159,779; Nov. 9; Gaz. vol. 220; p. 514.
- Self-oiling wheel. C. D. Sensenich. No. 1,141,586; June 1; Gaz. vol. 215; p. 178.
- Self-opening die. C. J. Harrington. No. 1,154,568; Sept. 21; Gaz. vol. 218; p. 844.
- Self-piling reel. H. J. Frost. No. 1,140,810; May 25; Gaz. vol. 214; p. 1192.
- Self-restoring hook. P. J. Landemare and S. Dingle. No. 1,128,614; Feb. 16; Gaz. vol. 211; p. 771.
- Self-rotating screw. F. Lara. No. 1,157,009; Oct. 19; Gaz. vol. 219; p. 642.
- Self-serving table. J. M. Bell. No. 1,142,480; June 8; Gaz. vol. 215; p. 528.
- Self-serving table and heater. W. J. Fox. No. 1,158,475; Nov. 2; Gaz. vol. 220; p. 22.
- Self-starter. E. A. Guyot. No. 1,128,442; Feb. 16; Gaz. vol. 21; p. 711.
- Self-starting engine. E. E. Winkley. No. 1,143,156; June 15; Gaz. vol. 215; p. 801.
- Self-waiting table. C. Nilson. No. 1,159,256; Nov. 2; Gaz. vol. 220; p. 295.
- Self-waiting table and cupboard. J. P. Fisher. No. 1,160,500; Nov. 16; Gaz. vol. 220; p. 820.
- Selvage-cutter. A. P. Lewis. No. 1,133,297; Mar. 30; Gaz. vol. 212; p. 1379.
- Selvaging device. J. W. Beard. No. 1,124,261; Jan. 12; Gaz. vol. 210; p. 410.
- Semaphore-operating mechanism. C. W. Ward. No. 1,153,739; Sept. 14; Gaz. vol. 218; p. 525.
- Semaphore-stop. W. K. Howe. No. 1,137,323; Apr. 27; Gaz. vol. 213; p. 1271.
- Semiliquid materials, Apparatus for feeding. A. Schröder. No. 1,145,618; July 6; Gaz. vol. 216; p. 223.
- Semiplastic material from the soja bean, Preparation of. R. Dodd and H. B. P. Humphries. No. 1,143,893; June 22; Gaz. vol. 215; p. 1081.
- Semiskirt, Sanitary. L. Winn. No. 1,164,970; Dec. 21; Gaz. vol. 221; p. 867.
- Sender. J. A. Kropp. No. 1,124,751; Jan. 12; Gaz. vol. 210; p. 587.
- Sender-board apparatus. E. R. Gill. No. 1,160,876; Nov. 16; Gaz. vol. 220; p. 954.
- Sending device. J. N. Reynolds. No. 1,147,437; July 20; Gaz. vol. 216; p. 903.
- Separable joint for display-figures. L. Wulkan and K. Glass. No. 1,134,716; Apr. 6; Gaz. vol. 213; p. 232.
- Separating and mote-cleaning machine. H. E. Hawk. No. 1,151,876; Aug. 31; Gaz. vol. 217; p. 1459.
- Separating-machine. W. S. Ayres. No. 1,139,250; May 11; Gaz. vol. 214; p. 575.
- Separator: See—
- | | |
|-------------------------------------|----------------------------|
| Battery-separator. | Grain-separator. |
| Bow-socket separator. | Hop-separator. |
| Butter-separator. | Hydraulic separator. |
| Button-separator. | Liquid-separator. |
| Centrifugal separator. | Magnetic separator. |
| Chat-separator. | Meter-separator. |
| Chicken-separator. | Oats-separator. |
| Coal and ore separator. | Oil-separator. |
| Coin-separator. | Oil and gas separator. |
| Cotton-separator. | Ore-separator. |
| Cotton-boll separator. | Pea-separator. |
| Cotton-ginning-mechanism separator. | Potato-separator. |
| Cream-separator. | Slime-separator. |
| Dry separator. | Spring-separator. |
| Dust-separator. | Spring-leaf separator. |
| Electrostatic separator. | Steam-separator. |
| Feed-water-heater separator. | Straw and grain separator. |
| Gold-separator. | Tow-separator. |
| | Warp-separator. |
- Separator. W. N. Britton. No. 1,151,243; Aug. 24; Gaz. vol. 217; p. 1197.
- Separator. H. J. Brown. No. 1,142,017; June 8; Gaz. vol. 215; p. 364.
- Separator. G. W. Caldwell. No. 1,157,756; Oct. 26; Gaz. vol. 219; p. 968.
- Separator. R. W. Dull. No. 1,155,473; Oct. 5; Gaz. vol. 219; p. 52.
- Separator. G. A. Fowler. No. 1,138,741; May 11; Gaz. vol. 214; p. 396.
- Separator. G. A. Fowler. No. 1,146,932; July 20; Gaz. vol. 216; p. 725.
- Separator. G. E. Fraser. No. 1,165,865; Dec. 28; Gaz. vol. 221; p. 1218.
- Separator. G. H. Fraser. No. 1,165,866; Dec. 28; Gaz. vol. 221; p. 1218.

Alphabetical list of inventions—Continued.

- Separator. G. H. Fraser. No. 1,165,867; Dec. 28; Gaz. vol. 221; p. 1219.
- Separator. G. H. Fraser. No. 1,165,868; Dec. 28; Gaz. vol. 221; p. 1219.
- Separator. G. H. Fraser. No. 1,165,869; Dec. 28; Gaz. vol. 221; p. 1220.
- Separator. H. F. Lamb. No. 1,159,962; Nov. 9; Gaz. vol. 220; p. 580.
- Separator. W. K. Liggett. No. 1,135,594; Apr. 13; Gaz. vol. 213; p. 578.
- Separator. W. K. Liggett and W. J. Armstrong. No. 1,135,304; Apr. 13; Gaz. vol. 213; p. 476.
- Separator. G. R. Lyons. No. 1,146,633; July 13; Gaz. vol. 216; p. 601.
- Separator. W. M. McKenzie. No. 1,126,240; Jan. 26; Gaz. vol. 210; p. 1189.
- Separator and filter. W. M. Cronenberger. No. 1,152,399; Sept. 7; Gaz. vol. 218; p. 6.
- Separator and grader. E. J. Vaudreuil. No. 1,165,469; Dec. 28; Gaz. vol. 221; p. 1079.
- Separator-feeder. W. K. Liggett. No. 1,128,796; Feb. 16; Gaz. vol. 211; p. 833.
- Separator for attached or nested articles. A. E. Pipe and R. L. Lafever. No. 1,149,595; Aug. 10; Gaz. vol. 217; p. 497.
- Separator-trap. E. C. Kelly, Jr. No. 1,159,044; Nov. 2; Gaz. vol. 220; p. 219.
- Separators. Liner for centrifugal. H. Lindeberg. No. 1,141,567; June 1; Gaz. vol. 215; p. 172.
- Septic tank. X. Caverno. No. 1,148,500; Aug. 3; Gaz. vol. 217; p. 5.
- Sequence-switch. J. N. Reynolds. No. 1,164,213; Dec. 14; Gaz. vol. 221; p. 561.
- Sequence-switch. J. N. Reynolds and C. F. Baldwin. No. 1,127,808; Feb. 9; Gaz. vol. 211; p. 443.
- Service-box and lid. F. M. Eiber. No. 1,131,687; Mar. 16; Gaz. vol. 212; p. 709.
- Service post, Municipal. O. D. Kleinstaub. No. 1,165,420; Dec. 28; Gaz. vol. 221; p. 1063.
- Serum and making it, Potentiated. E. Abderhalden. No. 1,151,536; Aug. 24; Gaz. vol. 217; p. 1295.
- Serum-container. W. H. Park. No. 1,143,855; June 22; Gaz. vol. 215; p. 1068.
- Serum container and injector. H. L. Reed. No. 1,139,720; May 18; Gaz. vol. 214; p. 777.
- Setting device. W. F. Straub. No. 1,137,677; Apr. 27; Gaz. vol. 213; p. 1391.
- Setting-machine. S. W. Reynolds. No. 1,153,827; Sept. 14; Gaz. vol. 218; p. 556.
- Settling-drum. M. B. Kline. No. 1,128,253; Feb. 9; Gaz. vol. 211; p. 597.
- Settling apparatus. L. C. Grevemberg. No. 1,150,360; Aug. 17; Gaz. vol. 217; p. 834.
- Settling-tank. A. G. J. Rapp. No. 1,137,351; Apr. 27; Gaz. vol. 213; p. 1282.
- Sewage and other liquids, Purifying. L. Linden. No. 1,160,918; Nov. 16; Gaz. vol. 220; p. 969.
- Sewage and other wastes, Process and apparatus for purifying. L. C. Frank. No. 1,139,024; May 11; Gaz. vol. 214; p. 498.
- Sewage and recovering organic matter therefrom, Purifying. G. W. Miles. No. 1,134,280; Apr. 6; Gaz. vol. 213; p. 72.
- Sewage and the like, Treatment of. T. K. Irwin. No. 1,166,373; Dec. 28; Gaz. vol. 221; p. 1402.
- Sewage apparatus. J. E. Van Kirk. No. 1,126,136; Jan. 26; Gaz. vol. 210; p. 1150.
- Sewage, Apparatus for drying the sludge or solid matter recovered from. A. B. Ogden. No. 1,135,390; Apr. 13; Gaz. vol. 213; p. 506.
- Sewage, Apparatus for separating the solid matter from. C. A. Jennings. No. 1,149,650; Aug. 10; Gaz. vol. 217; p. 521.
- Sewage, Apparatus for the treatment of. T. Craney. No. 1,134,107; Apr. 6; Gaz. vol. 213; p. 9.
- Sewage disinfection. L. C. Frank. No. 1,141,050; May 25; Gaz. vol. 214; p. 1277.
- Sewage-disposal apparatus. J. M. Davidson. No. 1,139,402; May 11; Gaz. vol. 214; p. 628.
- Sewage-disposal apparatus. G. L. Robinson and E. L. Wagner. No. 1,154,129; Sept. 21; Gaz. vol. 218; p. 694.
- Sewage, garbage, and the like, Treating. J. J. Smith. No. 1,123,414; Jan. 5; Gaz. vol. 210; p. 75.
- Sewage or any other liquid, Apparatus for purifying. L. Linden. No. 1,162,624; Nov. 30; Gaz. vol. 220; p. 1654.
- Sewage or the like, Apparatus for purifying. G. W. Swinburne. No. 1,153,972; Sept. 21; Gaz. vol. 218; p. 640.
- Sewage-separating system. J. P. Ball. No. 1,154,597; Sept. 28; Gaz. vol. 218; p. 883.
- Sewage-sludge and the like, Apparatus for drying. J. Bromet, F. Thorman, and H. C. Wood. No. 1,153,192; Sept. 14; Gaz. vol. 218; p. 330.
- Sewage, Treatment of. J. Orten-Böving. No. 1,161,600; Nov. 23; Gaz. vol. 220; p. 1256.
- Sewage-treatment plant. T. J. Belfrand. No. 1,163,058; Dec. 7; Gaz. vol. 221; p. 112.
- Sewer-cleaner. H. Sieben. No. 1,132,690; Mar. 23; Gaz. vol. 212; p. 1123.
- Sewer-cleaner. H. Sieben. No. 1,132,691; Mar. 23; Gaz. vol. 212; p. 1123.
- Sewer-cleaner. W. J. Stevenson, P. A. Fuchs, and W. Hiecke, Jr. No. 1,163,624; Dec. 7; Gaz. vol. 221; p. 311.
- Sewer-cleaning means. A. Bornemann. No. 1,136,766; Apr. 20; Gaz. vol. 213; p. 1034.
- Sewer-conduits, Forming-mold for. S. L. Romano. No. 1,143,862; June 22; Gaz. vol. 215; p. 1070.
- Sewer construction. W. B. Gray. No. 1,153,158; Sept. 7; Gaz. vol. 218; p. 279.
- Sewer construction. W. B. Gray. No. 1,161,658; Nov. 23; Gaz. vol. 220; p. 1275.
- Sewer-form. A. Langston. No. 1,127,030; Feb. 2; Gaz. vol. 211; p. 130.
- Sewer-pipe. A. J. Boyle. No. 1,158,415; Oct. 26; Gaz. vol. 219; p. 1200.
- Sewer-pipe. A. J. Boyle. No. 1,158,416; Oct. 26; Gaz. vol. 219; p. 1200.
- Sewer-pipe section. W. O. Gleeson. No. 1,123,866; Jan. 5; Gaz. vol. 210; p. 228.
- Sewer-pipes, Joint-packing device for. L. A. Weston. No. 1,163,726; Dec. 14; Gaz. vol. 221; p. 393.
- Sewer-tank. F. G. Smith. No. 1,164,418; Dec. 14; Gaz. vol. 221; p. 634.
- Sewer-trap. N. H. King. No. 1,156,907; Oct. 19; Gaz. vol. 219; p. 606.
- Sewer-trap. R. Harkness. No. 1,140,815; May 25; Gaz. vol. 214; p. 1194.
- Sewer-trap. G. W. Moon. No. 1,137,516; Apr. 27; Gaz. vol. 213; p. 1339.
- Sewer-trap. O. D. Ryan. No. 1,128,528; Feb. 16; Gaz. vol. 211; p. 742.
- Sewers and pipes, Device for cleaning. M. Cole. No. 1,137,580; Apr. 27; Gaz. vol. 213; p. 1361.
- Sewerage system. I. Shone. No. 1,137,673; Apr. 27; Gaz. vol. 213; p. 1390.
- Sewerage-system safety-trap. H. J. Sommer. No. 1,164,882; Dec. 21; Gaz. vol. 221; p. 836.
- Sewed-article seam. W. Arbetter. No. 1,140,235; May 18; Gaz. vol. 214; p. 957.
- Sewed articles, Hem or seam for. J. G. Lewis. No. 1,133,808; Mar. 30; Gaz. vol. 212; p. 1563.
- Sewed articles, Hem or seam for. J. G. Lewis. No. 1,155,360; Oct. 5; Gaz. vol. 219; p. 13.
- Sewed articles, Seam for. J. G. Lewis. No. 1,133,809; Mar. 30; Gaz. vol. 212; p. 1563.
- Sewing and plucking machine. J. C. Owens. No. 1,147,684; July 20; Gaz. vol. 216; p. 989.
- Sewing-cabinet. G. P. Huhn. No. 1,157,539; Oct. 19; Gaz. vol. 219; p. 830.
- Sewing hat-leathers into hat-bodies. W. P. Gammons, Jr. No. 1,139,662; May 18; Gaz. vol. 214; p. 757.
- Sewing-machine. E. B. Allen. No. 1,155,120; Sept. 28; Gaz. vol. 218; p. 1064.
- Sewing-machine. O. Ashton. No. 1,144,958; June 29; Gaz. vol. 215; p. 1478.
- Sewing-machine. J. Berger. No. 1,133,608; Mar. 30; Gaz. vol. 212; p. 1490.
- Sewing-machine. L. Bonell. No. 1,147,479; July 20; Gaz. vol. 216; p. 917.
- Sewing-machine. A. J. Briggs. No. 1,147,138; July 20; Gaz. vol. 216; p. 796.
- Sewing-machine. A. J. Briggs. No. 1,147,139; July 20; Gaz. vol. 216; p. 797.
- Sewing-machine. A. J. Briggs. No. 1,147,140; July 20; Gaz. vol. 216; p. 797.
- Sewing-machine. A. J. Briggs. No. 1,147,141; July 20; Gaz. vol. 216; p. 797.
- Sewing-machine. O. E. Brown. No. 1,123,237; Jan. 5; Gaz. vol. 210; p. 12.
- Sewing-machine. G. L. Corcoran. No. 1,134,033; Mar. 30; Gaz. vol. 212; p. 1637.
- Sewing-machine. H. Cousland. No. 1,153,176; Sept. 7; Gaz. vol. 218; p. 285.
- Sewing-machine. I. R. Dasher. No. 1,137,122; Apr. 27; Gaz. vol. 213; p. 1198.
- Sewing-machine. A. H. De Voe. No. 1,140,581; May 25; Gaz. vol. 214; p. 1115.
- Sewing-machine. C. A. Dearborn. No. 1,147,486; July 20; Gaz. vol. 216; p. 919.
- Sewing-machine. C. A. Dearborn. No. 1,147,614; July 20; Gaz. vol. 216; p. 964.
- Sewing-machine. G. M. Eames. No. 1,155,051; Sept. 28; Gaz. vol. 218; p. 1038.
- Sewing-machine. G. M. Eames and J. S. Finch. No. 1,155,050; Sept. 28; Gaz. vol. 218; p. 1037.
- Sewing-machine. A. F. Fifield. No. 1,152,498; Sept. 7; Gaz. vol. 218; p. 41.
- Sewing-machine. J. Forman. No. 1,136,001; Apr. 20; Gaz. vol. 213; p. 763.
- Sewing-machine. C. F. Gray. No. 1,156,839; Oct. 12; Gaz. vol. 219; p. 552.
- Sewing-machine. C. H. Greenwood. No. 1,145,678; July 6; Gaz. vol. 216; p. 245.
- Sewing-machine. O. F. Hansen. No. 1,134,528; Apr. 6; Gaz. vol. 213; p. 162.
- Sewing-machine. O. A. Hinderer. No. 1,135,691; Apr. 13; Gaz. vol. 213; p. 613.
- Sewing-machine. R. K. Hohmann. No. 1,150,368; Aug. 17; Gaz. vol. 217; p. 837.
- Sewing-machine. R. K. Hohmann. No. 1,164,648; Dec. 21; Gaz. vol. 221; p. 755.
- Sewing-machine. P. Hleb. No. 1,153,429; Sept. 14; Gaz. vol. 218; p. 416.

Alphabetical list of inventions—Continued.

- Sewing-machine. A. E. Jerram. No. 1,162,696; Nov. 30; Gaz. vol. 220; p. 1677.
- Sewing-machine. A. E. Jerram. No. 1,162,697; Nov. 30; Gaz. vol. 220; p. 1677.
- Sewing-machine. L. E. Johnson and E. Erickson. No. 1,133,147; Mar. 23; Gaz. vol. 212; p. 1290.
- Sewing-machine. E. Koella. No. 1,143,286; June 15; Gaz. vol. 215; p. 848.
- Sewing-machine. J. Leatham. No. 1,130,093; Mar. 2; Gaz. vol. 212; p. 88.
- Sewing-machine. J. G. Lewis. No. 1,156,607; Oct. 12; Gaz. vol. 219; p. 471.
- Sewing-machine. R. L. Lyons. No. 1,160,423; Nov. 16; Gaz. vol. 220; p. 792.
- Sewing-machine. A. T. Mace. No. 1,130,309; Mar. 2; Gaz. vol. 212; p. 162.
- Sewing-machine. C. Maier. No. 1,136,823; Apr. 20; Gaz. vol. 213; p. 1054.
- Sewing-machine. H. C. Miller. No. 1,159,523; Nov. 9; Gaz. vol. 220; p. 420.
- Sewing-machine. J. R. Moffatt. No. 1,141,476; June 1; Gaz. vol. 215; p. 140.
- Sewing-machine. J. R. Moffatt. No. 1,145,605; July 6; Gaz. vol. 216; p. 219.
- Sewing-machine. J. R. Moffatt and R. S. Kelso. No. 1,157,891; Oct. 26; Gaz. vol. 219; p. 1015.
- Sewing-machine. G. E. Molyneux. No. 1,127,069; Feb. 2; Gaz. vol. 211; p. 142.
- Sewing-machine. C. E. Myers. No. 1,131,853; Mar. 16; Gaz. vol. 212; p. 769.
- Sewing-machine. W. Myers. No. 1,137,654; Apr. 27; Gaz. vol. 213; p. 1385.
- Sewing-machine. D. Noble. No. 1,128,491; Feb. 16; Gaz. vol. 211; p. 728.
- Sewing-machine. D. Noble. No. 1,133,572; Mar. 30; Gaz. vol. 212; p. 1477.
- Sewing-machine. L. Onderdonk. No. 1,124,322; Jan. 12; Gaz. vol. 210; p. 433.
- Sewing-machine. L. Onderdonk. No. 1,124,323; Jan. 12; Gaz. vol. 210; p. 433.
- Sewing-machine. L. Onderdonk. No. 1,129,587; Feb. 23; Gaz. vol. 211; p. 1148.
- Sewing-machine. L. Onderdonk. No. 1,129,592; Feb. 23; Gaz. vol. 211; p. 1151.
- Sewing-machine. L. Onderdonk. No. 1,132,963; Mar. 23; Gaz. vol. 212; p. 1223.
- Sewing-machine. G. B. Osterhout. No. 1,134,483; Apr. 6; Gaz. vol. 213; p. 146.
- Sewing-machine. F. H. Perry. No. 1,129,008; Feb. 16; Gaz. vol. 211; p. 910.
- Sewing-machine. F. A. Read. No. 1,156,249; Oct. 12; Gaz. vol. 219; p. 345.
- Sewing-machine. F. A. Reece. No. 1,165,713; Dec. 28; Gaz. vol. 221; p. 1166.
- Sewing-machine. J. H. Schaaf. No. 1,149,862; Aug. 10; Gaz. vol. 217; p. 596.
- Sewing-machine. A. R. Schoenky. No. 1,124,535; Jan. 12; Gaz. vol. 210; p. 510.
- Sewing-machine. A. R. Schoenky. No. 1,137,356; Apr. 27; Gaz. vol. 213; p. 1284.
- Sewing-machine. D. S. Seymour. No. 1,137,797; May 4; Gaz. vol. 214; p. 26.
- Sewing-machine. D. S. Seymour. No. 1,145,620; July 6; Gaz. vol. 216; p. 224.
- Sewing-machine. C. F. Skinner. No. 1,129,365; Feb. 23; Gaz. vol. 211; p. 1070.
- Sewing-machine. F. T. Ströbeck. No. 1,152,667; Sept. 7; Gaz. vol. 218; p. 106.
- Sewing-machine. J. Thissen. No. 1,149,797; Aug. 10; Gaz. vol. 217; p. 571.
- Sewing-machine. L. E. Topham. No. 1,129,760; Feb. 23; Gaz. vol. 211; p. 1204.
- Sewing-machine. L. E. Topham. No. 1,165,817; Dec. 28; Gaz. vol. 221; p. 1202.
- Sewing-machine. T. Trott. No. 1,154,946; Sept. 28; Gaz. vol. 218; p. 1002.
- Sewing-machine. V. J. Van Horn. No. 1,136,299; Apr. 20; Gaz. vol. 213; p. 867.
- Sewing-machine. V. J. Van Horn. No. 1,143,795; June 22; Gaz. vol. 215; p. 1047.
- Sewing-machine. R. G. Woodward. No. 1,123,640; Jan. 5; Gaz. vol. 210; p. 151.
- Sewing-machine. R. G. Woodward. No. 1,135,420; Apr. 13; Gaz. vol. 213; p. 517.
- Sewing-machine. R. G. Woodward. No. 1,139,093; May 11; Gaz. vol. 214; p. 521.
- Sewing-machine. R. G. Woodward. No. 1,145,644; July 6; Gaz. vol. 216; p. 234.
- Sewing-machine. W. E. Wright. No. 1,145,647; July 6; Gaz. vol. 216; p. 235.
- Sewing-machine attachment. M. F. Bockelman. No. 1,150,330; Aug. 17; Gaz. vol. 217; p. 824.
- Sewing-machine attachment. J. K. Elliott. No. 1,128,963; Feb. 16; Gaz. vol. 211; p. 895.
- Sewing-machine attachment. C. A. Hansen. No. 1,157,884; Oct. 19; Gaz. vol. 219; p. 776.
- Sewing-machine attachment. M. P. Krautsch. No. 1,153,937; Nov. 2; Gaz. vol. 220; p. 185.
- Sewing-machine attachment. M. and W. J. McCabe. No. 1,148,178; July 27; Gaz. vol. 216; p. 1191.
- Sewing-machine attachment. J. V. McKenzie. No. 1,163,427; Dec. 7; Gaz. vol. 221; p. 242.
- Sewing-machine attachment. J. H. Schaaf. No. 1,149,860; Aug. 10; Gaz. vol. 217; p. 595.
- Sewing-machine attachment, Shoe. H. S. Wikel. No. 1,147,061; July 20; Gaz. vol. 216; p. 771.
- Sewing-machine auxiliary. J. H. Schaaf. No. 1,149,861; Aug. 10; Gaz. vol. 217; p. 595.
- Sewing-machineawl-feeding mechanism. L. E. Johnson and E. Erickson. No. 1,133,150; Mar. 23; Gaz. vol. 212; p. 1292.
- Sewing-machine bladder-head. A. Rontke. No. 1,150,628; Aug. 17; Gaz. vol. 217; p. 927.
- Sewing-machine binding attachment. A. Rontke. No. 1,137,665; Apr. 27; Gaz. vol. 213; p. 1388.
- Sewing-machine binding attachment. A. Rontke. No. 1,150,627; Aug. 17; Gaz. vol. 217; p. 927.
- Sewing-machine, Blindstitch. T. J. Hayes. No. 1,131,373; Mar. 9; Gaz. vol. 212; p. 565.
- Sewing-machine, Blindstitch. L. Onderdonk. No. 1,123,575; Jan. 5; Gaz. vol. 210; p. 129.
- Sewing-machine, Blindstitch. L. Onderdonk. No. 1,126,265; Jan. 26; Gaz. vol. 210; p. 1198.
- Sewing-machine, Blindstitch. L. Onderdonk. No. 1,132,680; Mar. 23; Gaz. vol. 212; p. 1118.
- Sewing-machine, Blindstitch. L. Onderdonk. No. 1,132,964; Mar. 23; Gaz. vol. 212; p. 1224.
- Sewing-machine, Blindstitch. L. Onderdonk. No. 1,132,965; Mar. 23; Gaz. vol. 212; p. 1224.
- Sewing-machine, Blindstitch. L. Onderdonk. No. 1,132,966; Mar. 23; Gaz. vol. 212; p. 1225.
- Sewing-machine, Blindstitch. L. Onderdonk. No. 1,132,968; Mar. 23; Gaz. vol. 212; p. 1225.
- Sewing-machine blindstitching attachment. L. D. Corey. No. 1,163,220; Dec. 7; Gaz. vol. 221; p. 170.
- Sewing-machine bobbin-winder. M. Hemleb. No. 1,151,877; Aug. 31; Gaz. vol. 217; p. 1459.
- Sewing-machine bobbin-winder. M. Hemleb. No. 1,160,604; Nov. 16; Gaz. vol. 220; p. 857.
- Sewing machine, Book. F. Gailer. No. 1,153,775; Sept. 14; Gaz. vol. 218; p. 537.
- Sewing-machine brake device. J. Hunsinger. No. 1,134,855; Apr. 6; Gaz. vol. 213; p. 278.
- Sewing machine, Broom. W. C. Lipe. No. 1,123,903; Jan. 5; Gaz. vol. 210; p. 240.
- Sewing machine, Button. W. L. Barron. No. 1,151,853; Aug. 31; Gaz. vol. 217; p. 1451.
- Sewing machine, Button. J. W. Darley, Jr. No. 1,124,597; Jan. 12; Gaz. vol. 210; p. 533.
- Sewing machine, Button. J. E. Gaddois. No. 1,162,471; Nov. 30; Gaz. vol. 220; p. 1604.
- Sewing machine, Button. G. S. Gatchell. No. 1,140,372; May 25; Gaz. vol. 214; p. 1040.
- Sewing machine, Button. J. J. Sullivan and A. F. Fifield. No. 1,149,474; Aug. 10; Gaz. vol. 217; p. 454.
- Sewing machine, Buttonhole. G. S. Hill. No. 1,134,046; Mar. 30; Gaz. vol. 212; p. 1641.
- Sewing machine, Buttonhole. H. C. Miller. No. 1,164,379; Dec. 14; Gaz. vol. 221; p. 620.
- Sewing machine, Buttonhole. F. Zaleski. No. 1,152,465; Sept. 7; Gaz. vol. 218; p. 29.
- Sewing machine, Buttonhole. F. Zaleski. No. 1,152,466; Sept. 7; Gaz. vol. 218; p. 29.
- Sewing-machine buttonhole attachment. J. Jessen. No. 1,125,334; Jan. 19; Gaz. vol. 210; p. 831.
- Sewing-machine buttonhole attachment. W. Maechler. No. 1,157,791; Oct. 26; Gaz. vol. 219; p. 979.
- Sewing-machine, Chain-stitch. A. H. De Voe. No. 1,151,513; Aug. 24; Gaz. vol. 217; p. 1286.
- Sewing-machine, Chain-stitch. M. Hemleb. No. 1,123,739; Jan. 5; Gaz. vol. 210; p. 185.
- Sewing-machine, Chain-stitch. J. R. Moffatt. No. 1,127,067; Feb. 2; Gaz. vol. 211; p. 142.
- Sewing-machine, Chain-stitch. G. E. Molyneux. No. 1,151,528; Aug. 24; Gaz. vol. 217; p. 1291.
- Sewing machine, Chain-stitch shoe. A. E. Jerram. No. 1,154,774; Sept. 28; Gaz. vol. 218; p. 944.
- Sewing-machine cloth-presser mechanism. C. M. Abercrombie. No. 1,150,321; Aug. 17; Gaz. vol. 217; p. 821.
- Sewing-machine controlling device. E. C. Bassett. No. 1,147,670; July 20; Gaz. vol. 216; p. 984.
- Sewing-machine, Double-chain-stitch. M. Hemleb. No. 1,140,679; May 25; Gaz. vol. 214; p. 1147.
- Sewing-machine driving device. H. Corral. No. 1,147,377; July 20; Gaz. vol. 216; p. 881.
- Sewing-machine drop-head cabinet. E. E. Manning. No. 1,129,412; Feb. 23; Gaz. vol. 211; p. 1087.
- Sewing-machine drop-table. C. Labrenz. No. 1,165,106; Dec. 21; Gaz. vol. 221; p. 916.
- Sewing-machine edging-guide. R. G. Woodward. No. 1,138,343; May 4; Gaz. vol. 214; p. 219.
- Sewing machine, Embroidery. H. Corral and J. M. Forbes. No. 1,159,901; Nov. 9; Gaz. vol. 220; p. 557.
- Sewing machine, Eyelet. D. Noble. No. 1,139,437; May 11; Gaz. vol. 214; p. 641.
- Sewing-machine fan attachment. C. W. Luttrell. No. 1,125,141; Jan. 19; Gaz. vol. 210; p. 761.
- Sewing-machine feeding and ruffling mechanism. L. Onderdonk. No. 1,156,545; Oct. 12; Gaz. vol. 219; p. 450.
- Sewing-machine feeding mechanism. J. Berger, Jr. No. 1,124,198; Jan. 5; Gaz. vol. 210; p. 341.
- Sewing-machine feeding mechanism. A. H. De Voe. No. 1,148,446; July 27; Gaz. vol. 216; p. 1283.

Alphabetical list of inventions—Continued.

- Sewing-machine feeding mechanism. A. Grieb. No. 1,161,307; Nov. 23; Gaz. vol. 220; p. 1154.
- Sewing-machine feeding mechanism. J. Hayes, Jr. No. 1,139,863; May 18; Gaz. vol. 214; p. 827.
- Sewing-machine feeding mechanism. G. E. Molyneux. No. 1,146,437; July 13; Gaz. vol. 216; p. 533.
- Sewing-machine feeding mechanism. L. Onderdonk. No. 1,129,591; Feb. 23; Gaz. vol. 211; p. 1150.
- Sewing-machine feeding mechanism. L. Onderdonk. No. 1,142,359; June 8; Gaz. vol. 215; p. 484.
- Sewing-machine feeding mechanism. A. Rontke. No. 1,128,519; Feb. 16; Gaz. vol. 211; p. 738.
- Sewing-machine feeding mechanism. D. S. Seymour. No. 1,124,667; Jan. 12; Gaz. vol. 210; p. 559.
- Sewing-machine feeding mechanism. D. S. Seymour. No. 1,144,797; June 29; Gaz. vol. 215; p. 1424.
- Sewing-machine feeding mechanism. W. E. Wright. No. 1,136,749; Apr. 20; Gaz. vol. 213; p. 1027.
- Sewing-machine finger-guard. M. Mashbir. No. 1,146,892; July 20; Gaz. vol. 216; p. 710.
- Sewing-machine folder. J. R. Moffatt. No. 1,135,708; Apr. 13; Gaz. vol. 213; p. 619.
- Sewing-machine folder. J. R. Moffatt. No. 1,145,604; July 6; Gaz. vol. 216; p. 219.
- Sewing-machine, Folding. S. E. Avery. No. 1,136,921; Apr. 27; Gaz. vol. 213; p. 1124.
- Sewing-machine for attaching labels. A. Rosenthal. No. 1,142,057; June 8; Gaz. vol. 215; p. 378.
- Sewing-machine frame. R. Mundlos. No. 1,144,428; June 29; Gaz. vol. 215; p. 1298.
- Sewing-machine, Glove-. F. J. Kaufmann. No. 1,145,148; July 6; Gaz. vol. 216; p. 61.
- Sewing-machine grinding attachment. A. F. Rodgers. No. 1,124,331; Jan. 12; Gaz. vol. 210; p. 436.
- Sewing-machine guard and thread-container. M. Taplit-sky. No. 1,130,347; Mar. 2; Gaz. vol. 212; p. 175.
- Sewing-machine guide attachment. S. Carlton. No. 1,159,358; Nov. 9; Gaz. vol. 220; p. 361.
- Sewing-machine guide, Sole-. G. L. Corcoran and G. A. Dobyne. No. 1,134,036; Mar. 30; Gaz. vol. 212; p. 1638.
- Sewing-machine guiding attachment. A. H. De Voe. No. 1,129,339; Feb. 23; Gaz. vol. 211; p. 1060.
- Sewing machine, Hat-. H. A. Blanchard. No. 1,161,595; Nov. 23; Gaz. vol. 220; p. 1254.
- Sewing machine, Hat-sweat-. W. A. Knight and L. Bauer. No. 1,138,669; May 11; Gaz. vol. 214; p. 369.
- Sewing-machine hemming and folding attachment. A. McArthur. No. 1,162,181; Nov. 30; Gaz. vol. 220; p. 1505.
- Sewing-machine hemming attachment. L. G. Neff and J. J. Taylor. No. 1,155,159; Sept. 28; Gaz. vol. 218; p. 1077.
- Sewing machine, Inseam shoe-. F. L. Alley. No. 1,157,200; Oct. 19; Gaz. vol. 219; p. 710.
- Sewing machine, Inseam shoe-. W. C. Meyer. No. 1,160,935; Nov. 16; Gaz. vol. 220; p. 975.
- Sewing machine, Inseam shoe-. W. C. Meyer. No. 1,160,936; Nov. 16; Gaz. vol. 220; p. 975.
- Sewing machine, Inseam shoe-. F. H. Warren. No. 1,154,554; Sept. 21; Gaz. vol. 218; p. 839.
- Sewing-machine, Lock-stitch-. E. Erickson. No. 1,137,198; Apr. 27; Gaz. vol. 213; p. 1224.
- Sewing-machine, Lock-stitch-. E. Erickson. No. 1,138,858; May 11; Gaz. vol. 214; p. 439.
- Sewing-machine, Lock-stitch-. A. E. Jerram. No. 1,150,123; Aug. 17; Gaz. vol. 217; p. 750.
- Sewing-machine, Lock-stitch-. L. E. Topham. No. 1,124,187; Jan. 5; Gaz. vol. 210; p. 337.
- Sewing machine, Lock-stitch shoe-. H. A. Ballard. No. 1,142,391; June 8; Gaz. vol. 215; p. 496.
- Sewing-machine loop-former. J. W. Darley, Jr. No. 1,134,946; Apr. 6; Gaz. vol. 213; p. 307.
- Sewing-machine loop-retainer. L. Onderdonk. No. 1,137,783; May 4; Gaz. vol. 214; p. 22.
- Sewing-machine loop-spreader. E. Erickson. No. 1,154,564; Sept. 21; Gaz. vol. 218; p. 843.
- Sewing-machine loop-spreader and presser-foot mechanism. E. Erickson. No. 1,161,643; Nov. 23; Gaz. vol. 220; p. 1270.
- Sewing-machine loop-taker. P. Diehl and M. Hemleb. No. 1,125,669; Jan. 19; Gaz. vol. 210; p. 951.
- Sewing-machine loop-taker. P. Diehl and M. Hemleb. No. 1,146,406; July 13; Gaz. vol. 216; p. 520.
- Sewing-machine loop-taker. P. Diehl and M. Hemleb. No. 1,149,504; Aug. 10; Gaz. vol. 217; p. 465.
- Sewing-machine loop-taker. M. Hemleb. No. 1,149,049; Aug. 3; Gaz. vol. 217; p. 200.
- Sewing-machine loop-taker-operating means. C. Winkel. No. 1,127,952; Feb. 9; Gaz. vol. 211; p. 493.
- Sewing-machine loop-takers. Tension device for. H. R. Tracy. No. 1,129,922; Mar. 2; Gaz. vol. 212; p. 31.
- Sewing-machine looper mechanism. W. I. Barron. No. 1,125,636; Jan. 19; Gaz. vol. 210; p. 937.
- Sewing-machine looper mechanism. L. E. Johnson and E. Erickson. No. 1,133,148; Mar. 23; Gaz. vol. 212; p. 1291.
- Sewing-machine looper mechanism. L. E. Johnson and E. Erickson. No. 1,154,571; Sept. 21; Gaz. vol. 218; p. 846.
- Sewing-machine looper mechanism. G. E. Molyneux. No. 1,127,795; Feb. 9; Gaz. vol. 211; p. 437.
- Sewing-machine looper mechanism. G. E. Molyneux. No. 1,128,484; Feb. 16; Gaz. vol. 211; p. 726.
- Sewing-machine looper mechanism. L. Onderdonk. No. 1,123,578; Jan. 5; Gaz. vol. 210; p. 130.
- Sewing-machine looper-operating mechanism. L. Onderdonk. No. 1,123,577; Jan. 5; Gaz. vol. 210; p. 130.
- Sewing-machine looper-operating mechanism. L. Onderdonk. No. 1,123,579; Jan. 5; Gaz. vol. 210; p. 131.
- Sewing-machine looper-operating mechanism. L. Onderdonk. No. 1,124,324; Jan. 12; Gaz. vol. 210; p. 434.
- Sewing-machine looper-operating mechanism. L. Onderdonk. No. 1,129,589; Feb. 23; Gaz. vol. 211; p. 1149.
- Sewing-machine looper-operating mechanism. L. Onderdonk. No. 1,129,590; Feb. 23; Gaz. vol. 211; p. 1150.
- Sewing-machine looper-operating mechanism. L. Onderdonk. No. 1,129,593; Feb. 23; Gaz. vol. 211; p. 1151.
- Sewing machine, Mantle-. S. Cohn. No. 1,145,556; July 6; Gaz. vol. 216; p. 203.
- Sewing machine, Mattress-. H. L. Dismer and N. Mirfield. No. 1,166,193; Dec. 28; Gaz. vol. 221; p. 1336.
- Sewing machine, Mattress-. W. A. Kelsey and J. G. Stoneback. No. 1,152,418; Sept. 7; Gaz. vol. 218; p. 13.
- Sewing-machine motor attachment. G. Wesley. No. 1,153,687; Mar. 30; Gaz. vol. 212; p. 1520.
- Sewing-machine movable guard. E. Erickson. No. 1,149,353; Aug. 10; Gaz. vol. 217; p. 412.
- Sewing-machine, Multiple-needle-. P. Diehl and H. Eichhorn. No. 1,142,082; June 8; Gaz. vol. 215; p. 387.
- Sewing-machine multiple tucking-guide. C. M. Horton. No. 1,152,635; Sept. 7; Gaz. vol. 218; p. 94.
- Sewing machine needle. C. E. Myers. No. 1,131,854; Mar. 16; Gaz. vol. 212; p. 770.
- Sewing-machine needle-carrier and loop-holder, Combined. E. Erickson. No. 1,154,565; Sept. 21; Gaz. vol. 218; p. 843.
- Sewing-machine needle-guard. J. R. Moffatt and R. S. Kelso. No. 1,157,892; Oct. 26; Gaz. vol. 219; p. 1016.
- Sewing-machine needle-guard. D. Noble. No. 1,155,086; Sept. 28; Gaz. vol. 218; p. 1052.
- Sewing-machine needle mechanism. E. B. Allen. No. 1,161,277; Nov. 23; Gaz. vol. 220; p. 1143.
- Sewing-machine oil-shield. I. P. Nichols. No. 1,165,439; Dec. 28; Gaz. vol. 221; p. 1070.
- Sewing-machine, Ornamental-stitch-. W. Myers. No. 1,135,959; Apr. 13; Gaz. vol. 213; p. 707.
- Sewing-machine, Ornamental-stitch-. V. J. Van Horn. No. 1,128,920; Feb. 16; Gaz. vol. 211; p. 879.
- Sewing-machine, Ornamental-stitch-. V. J. Van Horn. No. 1,134,564; Apr. 6; Gaz. vol. 213; p. 176.
- Sewing-machine, Ornamental-stitch-. V. J. Van Horn. No. 1,166,278; Dec. 28; Gaz. vol. 221; p. 1368.
- Sewing-machine, Ornamental-stitch-. V. J. Van Horn. No. 1,166,279; Dec. 28; Gaz. vol. 221; p. 1368.
- Sewing-machine, Overedge. J. C. Ringe. No. 1,156,820; Oct. 12; Gaz. vol. 219; p. 545.
- Sewing-machine, Overseaming. G. M. Eames and J. S. Finch. No. 1,133,012; Mar. 23; Gaz. vol. 212; p. 1012.
- Sewing-machine, Overseaming. G. M. Eames and J. S. Finch. No. 1,155,052; Sept. 28; Gaz. vol. 218; p. 1038.
- Sewing-machine piping attachment. H. B. Woehrle. No. 1,157,606; Oct. 19; Gaz. vol. 219; p. 850.
- Sewing-machine plait-folder. A. H. De Voe. No. 1,135,966; Apr. 13; Gaz. vol. 213; p. 709.
- Sewing-machine plait-folder. A. H. De Voe. No. 1,142,770; June 8; Gaz. vol. 215; p. 626.
- Sewing-machine plaiting attachment. J. R. Moffatt. No. 1,166,237; Dec. 28; Gaz. vol. 221; p. 1353.
- Sewing-machine power-transmitter. J. Fischer. No. 1,156,354; Oct. 12; Gaz. vol. 219; p. 381.
- Sewing-machine power-transmitter. J. Fischer and D. Bradenstein. No. 1,156,137; Oct. 12; Gaz. vol. 219; p. 309.
- Sewing-machine presser device. R. S. Kelso. No. 1,129,404; Feb. 23; Gaz. vol. 211; p. 1084.
- Sewing-machine presser-foot. A. L. Harrison. No. 1,145,989; July 13; Gaz. vol. 216; p. 374.
- Sewing-machine presser-foot. E. W. Mathewson. No. 1,147,960; July 27; Gaz. vol. 216; p. 1111.
- Sewing-machine presser-foot. C. McNeil. No. 1,140,753; May 25; Gaz. vol. 214; p. 1173.
- Sewing-machine presser-foot. R. G. Woodward. No. 1,124,376; Jan. 12; Gaz. vol. 210; p. 453.
- Sewing-machine presser-foot mechanism. E. Erickson. No. 1,133,229; Mar. 23; Gaz. vol. 212; p. 1317.
- Sewing-machine presser-foot mechanism. E. Erickson. No. 1,151,768; Aug. 31; Gaz. vol. 217; p. 1420.
- Sewing-machine presser-foot mechanism. L. E. Johnson and E. Erickson. No. 1,133,149; Mar. 23; Gaz. vol. 212; p. 1291.
- Sewing machine, Reduced-locking-stitch button-. J. W. Darley, Jr. No. 1,125,821; Jan. 19; Gaz. vol. 210; p. 1005.
- Sewing-machine, Ruffling. L. Onderdonk. No. 1,140,763; May 25; Gaz. vol. 214; p. 1175.
- Sewing machine, Sack-. P. Arrighi. No. 1,153,009; Sept. 7; Gaz. vol. 218; p. 230.
- Sewing-machine safety spool-holder. S. Kruger. No. 1,142,183; June 8; Gaz. vol. 215; p. 423.

- Sewing-machine seam-guide. G. E. Molyneux and G. S. Gatchell. No. 1,124,320; Jan. 12; Gaz. vol. 210; p. 432.
- Sewing-machine, Self-lubricating. J. P. Marshall. No. 1,135,601; Apr. 13; Gaz. vol. 213; p. 581.
- Sewing-machine shirring presser-foot. J. R. Moffatt. No. 1,144,228; June 22; Gaz. vol. 215; p. 1200.
- Sewing machine, Shoe. H. A. Ballard. No. 1,158,771; Nov. 2; Gaz. vol. 220; p. 127.
- Sewing machine, Shoe. A. Bates. No. 1,124,195; Jan. 5; Gaz. vol. 210; p. 340.
- Sewing machine, Shoe. A. E. Richards. No. 1,163,558; Dec. 7; Gaz. vol. 221; p. 287.
- Sewing machine, Shoe. J. R. Scott. No. 1,127,098; Feb. 2; Gaz. vol. 211; p. 153.
- Sewing-machine shuttle. E. Erickson. No. 1,149,349; Aug. 10; Gaz. vol. 217; p. 411.
- Sewing-machine, Shuttle. C. H. Hagelstein. No. 1,151,945; Aug. 31; Gaz. vol. 217; p. 1481.
- Sewing-machine shuttle. L. E. Johnson and E. Erickson. No. 1,133,151; Mar. 23; Gaz. vol. 212; p. 1292.
- Sewing-machine shuttle mechanism. L. E. Johnson and E. Erickson. No. 1,151,794; Aug. 31; Gaz. vol. 217; p. 1430.
- Sewing-machine shuttle-operating mechanism. E. Erickson. No. 1,149,350; Aug. 10; Gaz. vol. 217; p. 411.
- Sewing-machine shuttle-operating mechanism. E. Erickson. No. 1,158,036; Oct. 26; Gaz. vol. 219; p. 1065.
- Sewing machine, Sole. J. L. Dow. No. 1,145,059; July 6; Gaz. vol. 216; p. 31.
- Sewing-machine stitch-forming mechanism. E. B. Allen. No. 1,162,207; Nov. 30; Gaz. vol. 220; p. 1514.
- Sewing-machine stitch-forming mechanism. W. N. Parkes. No. 1,141,092; May 25; Gaz. vol. 214; p. 1291.
- Sewing machine, Straw-plait. E. Wiseman. No. 1,137,249; Apr. 27; Gaz. vol. 213; p. 1244.
- Sewing-machine stripper and thread-cutter, Combined. J. R. Moffatt. No. 1,150,614; Aug. 17; Gaz. vol. 217; p. 922.
- Sewing-machine support. J. H. Chenoweth. No. 1,152,487; Sept. 7; Gaz. vol. 218; p. 38.
- Sewing-machine-table cover. C. H. Kramer. No. 1,131,713; Mar. 16; Gaz. vol. 212; p. 717.
- Sewing machine, Tag. M. O. Anthony. No. 1,143,929; June 22; Gaz. vol. 215; p. 1093.
- Sewing-machine take-up. W. L. Barron. No. 1,166,037; Dec. 28; Gaz. vol. 221; p. 1277.
- Sewing-machine take-up. E. Erickson. No. 1,140,584; May 25; Gaz. vol. 214; p. 1116.
- Sewing-machine take-up. W. N. Parkes. No. 1,148,794; Aug. 3; Gaz. vol. 217; p. 112.
- Sewing-machine take-up mechanism. E. Erickson. No. 1,149,351; Aug. 10; Gaz. vol. 217; p. 412.
- Sewing-machine take-up mechanism. L. Onderdonk. No. 1,144,498; June 29; Gaz. vol. 215; p. 1321.
- Sewing-machine tape-reel. J. Hayes, Jr., and J. Berger, Jr. No. 1,124,735; Jan. 12; Gaz. vol. 210; p. 582.
- Sewing-machine tension. E. Erickson. No. 1,151,770; Aug. 31; Gaz. vol. 217; p. 1421.
- Sewing-machine tension and stopping device, Combined. J. W. Roberts, A. P. Brewster, and B. Bryson. No. 1,164,752; Dec. 21; Gaz. vol. 221; p. 791.
- Sewing-machine tension device. C. B. Atwood. No. 1,129,945; Mar. 2; Gaz. vol. 212; p. 38.
- Sewing-machine tension device. A. D. Smith. No. 1,128,377; Feb. 16; Gaz. vol. 211; p. 658.
- Sewing-machine tension device, Adjustable. W. L. Davis and F. L. Van Allen. No. 1,125,975; Jan. 26; Gaz. vol. 210; p. 1091.
- Sewing-machine tension mechanism, Straw-plait. E. Wiseman. No. 1,137,250; Apr. 27; Gaz. vol. 213; p. 1245.
- Sewing-machine thread-clamp, Shoe. H. A. Ballard. No. 1,127,719; Feb. 9; Gaz. vol. 211; p. 409.
- Sewing-machine thread-controller. L. Onderdonk. No. 1,129,588; Feb. 23; Gaz. vol. 211; p. 1149.
- Sewing-machine thread-controller. L. Onderdonk. No. 1,129,594; Feb. 23; Gaz. vol. 211; p. 1151.
- Sewing-machine thread-controller. L. Onderdonk. No. 1,142,360; June 8; Gaz. vol. 215; p. 484.
- Sewing-machine thread-controller. D. S. Seymour. No. 1,147,043; July 20; Gaz. vol. 216; p. 766.
- Sewing-machine thread-controller. R. G. Woodward. No. 1,136,748; Apr. 20; Gaz. vol. 213; p. 1027.
- Sewing-machine thread-controller. R. G. Woodward. No. 1,139,094; May 11; Gaz. vol. 214; p. 522.
- Sewing-machine thread-controlling device. F. Zaleski. No. 1,163,579; Dec. 7; Gaz. vol. 221; p. 295.
- Sewing-machine thread-controlling mechanism. G. L. Corcoran. No. 1,134,034; Mar. 30; Gaz. vol. 212; p. 1637.
- Sewing-machine thread-controlling mechanism. G. L. Corcoran, G. A. Dobyne, and A. R. Schoenky. No. 1,134,035; Mar. 30; Gaz. vol. 212; p. 1638.
- Sewing-machine thread-controlling mechanism. F. W. Merrick. No. 1,129,827; Feb. 23; Gaz. vol. 211; p. 1227.
- Sewing-machine thread-controlling mechanism. L. Onderdonk. No. 1,129,586; Feb. 23; Gaz. vol. 211; p. 1148.
- Sewing-machine thread-controlling mechanism. R. G. Woodward. No. 1,143,010; June 15; Gaz. vol. 215; p. 751.
- Sewing-machine thread-controlling mechanism. R. G. Woodward. No. 1,145,643; July 6; Gaz. vol. 216; p. 233.
- Sewing-machine thread-controlling mechanism, Button. J. W. Darley, Jr. No. 1,143,513; June 15; Gaz. vol. 215; p. 926.
- Sewing-machine thread-cutter. C. H. Foster. No. 1,123,721; Jan. 5; Gaz. vol. 210; p. 178.
- Sewing-machine thread-cutter. V. J. Van Horn. No. 1,145,636; July 6; Gaz. vol. 216; p. 231.
- Sewing-machine thread cutter and clamp, Buttonhole. F. Zaleski. No. 1,152,464; Sept. 7; Gaz. vol. 218; p. 28.
- Sewing-machine thread cutter and holder, Buttonhole. H. H. Asadoorian. No. 1,133,605; Mar. 30; Gaz. vol. 212; p. 1489.
- Sewing-machine thread-cutting mechanism. A. F. Fifield. No. 1,162,998; Dec. 7; Gaz. vol. 221; p. 92.
- Sewing-machine thread-cutting mechanism. A. Rontke. No. 1,156,821; Oct. 12; Gaz. vol. 219; p. 545.
- Sewing-machine thread-cutting mechanism. F. Zaleski. No. 1,153,148; Sept. 7; Gaz. vol. 218; p. 275.
- Sewing-machine thread-cutting mechanism, Button. J. W. Darley. No. 1,125,972; Jan. 26; Gaz. vol. 210; p. 1090.
- Sewing-machine thread-drawing and thread-cutting mechanism. F. J. Kaufmann and W. N. Marsden. No. 1,137,143; Apr. 27; Gaz. vol. 213; p. 1206.
- Sewing-machine thread-feeding attachment. C. E. Hayes. No. 1,151,585; Aug. 31; Gaz. vol. 217; p. 1358.
- Sewing-machine thread-guard. J. W. Darley, Jr. No. 1,139,261; May 11; Gaz. vol. 214; p. 579.
- Sewing-machine thread-measuring device. E. Erickson. No. 1,151,767; Aug. 31; Gaz. vol. 217; p. 1420.
- Sewing-machine thread severing and holding mechanism. J. W. Darley, Jr. No. 1,141,041; May 25; Gaz. vol. 214; p. 1274.
- Sewing-machine top feed or ruffling mechanism. J. P. Weis. No. 1,125,230; Jan. 19; Gaz. vol. 210; p. 794.
- Sewing-machine trimming mechanism. J. Hinkley. No. 1,157,000; Oct. 19; Gaz. vol. 219; p. 639.
- Sewing-machine trimming mechanism. R. S. Kelso. No. 1,129,403; Feb. 23; Gaz. vol. 211; p. 1084.
- Sewing-machine trimming mechanism. R. B. Thompson. No. 1,136,846; Apr. 20; Gaz. vol. 213; p. 1062.
- Sewing-machine trimming mechanism. J. P. Weis. No. 1,155,533; Oct. 5; Gaz. vol. 219; p. 73.
- Sewing-machine tucking-guide. L. Onderdonk. No. 1,139,062; May 11; Gaz. vol. 214; p. 510.
- Sewing-machine, Two-needle blindstitch. W. Arbetter. No. 1,156,128; Oct. 12; Gaz. vol. 219; p. 306.
- Sewing-machine upper-thread-controlling device. J. R. Moffatt. No. 1,139,793; May 18; Gaz. vol. 214; p. 802.
- Sewing machine, Welt. H. A. Ballard. No. 1,125,038; Jan. 19; Gaz. vol. 210; p. 724.
- Sewing-machine work-feeding attachment. C. Augustine. No. 1,156,339; Oct. 12; Gaz. vol. 219; p. 376.
- Sewing-machine work-guide. B. Hardesty. No. 1,143,701; June 22; Gaz. vol. 215; p. 1016.
- Sewing-machine work-holder. W. L. Barron. No. 1,151,535; Aug. 24; Gaz. vol. 217; p. 1294.
- Sewing-machine work-holder. O. E. Brown. No. 1,136,651; Apr. 20; Gaz. vol. 213; p. 992.
- Sewing-machine work-holder. J. E. Van Deventer. No. 1,140,217; May 18; Gaz. vol. 214; p. 951.
- Sewing-machine work-support. F. W. Merrick. No. 1,155,318; Sept. 28; Gaz. vol. 218; p. 1128.
- Sewing machines, Button-feeding device for button. G. E. Barker. No. 1,160,487; Nov. 16; Gaz. vol. 220; p. 815.
- Sewing-machines, Controlling device for operating implements in. J. R. Moffatt. No. 1,157,170; Oct. 19; Gaz. vol. 219; p. 699.
- Sewing machines, Ear forming and tying mechanism for sack. P. Arrighi. No. 1,162,014; Nov. 30; Gaz. vol. 220; p. 1447.
- Sewing-machines, Feeding mechanism for. R. G. Woodward. No. 1,135,646; Apr. 13; Gaz. vol. 213; p. 597.
- Sewing-machines, Interchangeable-speed mechanism for. J. Psik. No. 1,133,502; Mar. 30; Gaz. vol. 212; p. 1450.
- Sewing-machines, Looper-actuating mechanism for chain-stitch. C. F. Gray. No. 1,127,755; Feb. 9; Gaz. vol. 211; p. 422.
- Sewing-machines, Looper-rocker for. D. S. Seymour. No. 1,135,405; Apr. 13; Gaz. vol. 213; p. 511.
- Sewing-machines, Mechanism for actuating the awl, needle, and needle-guide of lock-stitch. E. Erickson. No. 1,149,352; Aug. 10; Gaz. vol. 217; p. 412.
- Sewing-machines, Picot-cutting attachment for. W. L. Pierce. No. 1,154,337; Sept. 21; Gaz. vol. 218; p. 766.
- Sewing-machines, Slack-thread take-up for. A. D. Smith. No. 1,127,534; Feb. 9; Gaz. vol. 211; p. 344.
- Sewing-machines, Tension-releasing device for. A. H. De Voe. No. 1,146,405; July 13; Gaz. vol. 216; p. 520.
- Sewing-machines, Thread-controlling mechanism for. D. S. Seymour. No. 1,135,406; Apr. 13; Gaz. vol. 213; p. 511.
- Sewing-machines, Thread-controlling mechanism for. R. G. Woodward. No. 1,135,343; Apr. 13; Gaz. vol. 213; p. 490.
- Sewing-machines, Throat-plate support for. A. H. De Voe. No. 1,163,979; Dec. 14; Gaz. vol. 221; p. 480.
- Sewing-machines, Trimming mechanism for. J. R. Moffatt. No. 1,135,709; Apr. 13; Gaz. vol. 213; p. 620.

Alphabetical list of inventions—Continued.

- Shack, Knockdown. J. B. Rosenheim. No. 1,124,063; Jan. 5; Gaz. vol. 210; p. 294.
- Shackle for drills, &c. M. W. Sherwood. No. 1,154,941; Sept. 28; Gaz. vol. 218; p. 1000.
- Shackle, Hog-. J. R. Morse. No. 1,166,382; Dec. 28; Gaz. vol. 221; p. 1405.
- Shackle, Slip-. B. Schütte. No. 1,158,392; Oct. 26; Gaz. vol. 219; p. 1191.
- Shade. Y. Yamamoto. No. 1,140,092; May 18; Gaz. vol. 214; p. 909.
- Shade and curtain bracket, Combined. E. Franke. No. 1,163,228; Dec. 7; Gaz. vol. 221; p. 173.
- Shade and curtain fixture. M. W. Baumgardt. No. 1,151,921; Aug. 31; Gaz. vol. 217; p. 1474.
- Shade and curtain fixture. A. W. Lyda. No. 1,128,016; Feb. 9; Gaz. vol. 211; p. 515.
- Shade and curtain fixture. E. H. Pollock. No. 1,150,882; Aug. 24; Gaz. vol. 217; p. 1073.
- Shade and curtain fixture, Window. F. Kraczkoski. No. 1,128,611; Feb. 16; Gaz. vol. 211; p. 770.
- Shade and curtain holder, Combined. E. W. Thompson. No. 1,139,000; May 11; Gaz. vol. 214; p. 488.
- Shade and curtain holder, Window. F. F. Bethka. No. 1,156,343; Oct. 12; Gaz. vol. 219; p. 377.
- Shade and curtain-pole hanger. H. S. Bitting. No. 1,141,757; June 1; Gaz. vol. 215; p. 236.
- Shade and curtain-pole support, Combined window-. S. Miller. No. 1,150,693; Aug. 17; Gaz. vol. 217; p. 950.
- Shade and curtain support, Window. J. L. Eveland. No. 1,152,617; Sept. 7; Gaz. vol. 218; p. 87.
- Shade and lace-curtain holder, Window-. H. Rogers. No. 1,162,652; Nov. 30; Gaz. vol. 220; p. 1662.
- Shade and operating device therefor, Window-. D. J. Williams. No. 1,158,613; Nov. 2; Gaz. vol. 220; p. 72.
- Shade attachment, Window-. S. Jaszgar. No. 1,136,340; Apr. 20; Gaz. vol. 213; p. 881.
- Shade-bracket. J. M. Allard. No. 1,126,934; Feb. 2; Gaz. vol. 211; p. 95.
- Shade-bracket. J. R. Casper. No. 1,133,360; Mar. 30; Gaz. vol. 212; p. 1401.
- Shade-bracket. F. J. and M. Hoffelt. No. 1,153,385; Sept. 14; Gaz. vol. 218; p. 400.
- Shade-bracket. S. Franis. No. 1,149,466; Aug. 10; Gaz. vol. 217; p. 451.
- Shade-bracket. O. P. Seward. No. 1,130,848; Mar. 9; Gaz. vol. 212; p. 385.
- Shade bracket and curtain-pole holder, Combined window-. H. H. Serena. No. 1,127,529; Feb. 9; Gaz. vol. 211; p. 343.
- Shade bracket, Curtain-. C. Hallaire. No. 1,153,069; Sept. 7; Gaz. vol. 218; p. 249.
- Shade, curtain, and drapery hanger, Window. T. M. Rawls and R. A. Miller. No. 1,130,929; Mar. 9; Gaz. vol. 212; p. 413.
- Shade device, Window-. F. W. Rowe. No. 1,153,521; Sept. 14; Gaz. vol. 218; p. 449.
- Shade-fixture. F. Hambrook. No. 1,124,426; Jan. 12; Gaz. vol. 210; p. 470.
- Shade-fixture. J. A. Rounds. No. 1,139,729; May 18; Gaz. vol. 214; p. 780.
- Shade fixture, Adjustable window-. H. E. Gifford. No. 1,144,119; June 22; Gaz. vol. 215; p. 1162.
- Shade fixture, Window-. J. M. Gambon. No. 1,134,326; Apr. 6; Gaz. vol. 213; p. 89.
- Shade fixture, Window-. F. W. Rutzke. No. 1,149,294; Aug. 10; Gaz. vol. 217; p. 391.
- Shade fixture, Window-. J. W. Tatum. No. 1,142,993; June 15; Gaz. vol. 215; p. 745.
- Shade fixture, Window-. I. B. Wolfe. No. 1,138,166; May 4; Gaz. vol. 214; p. 157.
- Shade for vehicles, Spring-roller. W. A. Daniels. No. 1,135,161; Apr. 13; Gaz. vol. 213; p. 428.
- Shade-hanger. E. W. Fishburne. No. 1,143,263; June 15; Gaz. vol. 215; p. 840.
- Shade-hanger. Z. Perrault. No. 1,153,949; Sept. 21; Gaz. vol. 218; p. 633.
- Shade-hanger, Adjustable. A. M. Hillman. No. 1,134,852; Apr. 6; Gaz. vol. 213; p. 276.
- Shade-hanger, Adjustable. G. B. Wood. No. 1,164,693; Dec. 21; Gaz. vol. 221; p. 771.
- Shade-hanger, Vertically-adjustable. W. J. Britting. No. 1,129,162; Feb. 23; Gaz. vol. 211; p. 998.
- Shade hanger, Window-. C. N. Hiner. No. 1,139,974; May 18; Gaz. vol. 214; p. 866.
- Shade-holder. M. F. Finkelstein. No. 1,163,519; Dec. 7; Gaz. vol. 221; p. 275.
- Shade-holder. G. A. Gauthier. No. 1,156,473; Oct. 12; Gaz. vol. 219; p. 425.
- Shade-holder. H. Hubbell. No. 1,135,019; Apr. 13; Gaz. vol. 213; p. 379.
- Shade-holder. H. Hubbell. No. 1,135,020; Apr. 13; Gaz. vol. 213; p. 379.
- Shade-holder. A. C. Recker. No. 1,162,400; Nov. 30; Gaz. vol. 220; p. 1579.
- Shade-holder. E. J. Schroeder. No. 1,158,731; Nov. 2; Gaz. vol. 220; p. 112.
- Shade-holder. E. L. White. No. 1,155,117; Sept. 28; Gaz. vol. 218; p. 1063.
- Shade-holder and pole, Combined. P. Starek. No. 1,135,331; Apr. 13; Gaz. vol. 213; p. 486.
- Shade holder, Window-. O. B. Gilbert. No. 1,158,677; Nov. 2; Gaz. vol. 220; p. 94.
- Shade or curtain fixture, Adjustable. G. J. Maas. No. 1,146,890; July 20; Gaz. vol. 216; p. 709.
- Shade or globe holder. E. W. Henger. No. 1,134,533; Apr. 6; Gaz. vol. 213; p. 164.
- Shade pull, Window-. M. B. Franklin. No. 1,166,355; Dec. 28; Gaz. vol. 221; p. 1395.
- Shade-roller. C. A. Carmany. No. 1,134,727; Apr. 6; Gaz. vol. 213; p. 236.
- Shade-roller. J. O. Dobson. No. 1,131,684; Mar. 16; Gaz. vol. 212; p. 708.
- Shade-roller and curtain-hanger, Combined. G. Wizsolyi. No. 1,154,902; Sept. 28; Gaz. vol. 218; p. 987.
- Shade-roller and curtain-pole fixture, Combined. E. D. Wilson. No. 1,157,831; Oct. 26; Gaz. vol. 219; p. 993.
- Shade-roller and curtain-pole support, Combined. D. M. Allen. No. 1,124,829; Jan. 12; Gaz. vol. 210; p. 616.
- Shade-roller and curtain-pole support, Combined. J. Jarvey. No. 1,133,033; Mar. 23; Gaz. vol. 212; p. 1250.
- Shade-roller attachment. H. Cole. No. 1,132,830; Mar. 23; Gaz. vol. 212; p. 1176.
- Shade-roller bracket. E. Probst. No. 1,136,049; Apr. 20; Gaz. vol. 213; p. 778.
- Shade-roller bracket, Window-. W. B. Caswell. No. 1,150,339; Aug. 17; Gaz. vol. 217; p. 827.
- Shade-roller device, Adjustable. A. E. Leary. No. 1,156,410; Oct. 12; Gaz. vol. 219; p. 403.
- Shade-roller hanger, Adjustable. K. W. Barrager. No. 1,144,283; June 22; Gaz. vol. 215; p. 1219.
- Shade-roller mounting, Window-. J. Febrer. No. 1,165,769; Dec. 28; Gaz. vol. 221; p. 1186.
- Shade-roller support. G. Lefevre. No. 1,142,589; June 8; Gaz. vol. 215; p. 565.
- Shade-roller, Ventilating. H. T. Staats. No. 1,157,261; Oct. 19; Gaz. vol. 219; p. 733.
- Shade roller, Window-. J. V. Washburne. No. 1,149,879; Aug. 10; Gaz. vol. 217; p. 601.
- Shade roller, Window-. S. I. Wharton. No. 1,128,204; Feb. 9; Gaz. vol. 211; p. 580.
- Shade, Sighting-. H. L. Best, Sr. No. 1,154,838; Sept. 28; Gaz. vol. 218; p. 966.
- Shade-stick clasp, Window-. A. H. Shock and F. A. English. No. 1,124,342; Jan. 12; Gaz. vol. 210; p. 440.
- Shade-support. F. Barr. No. 1,157,201; Oct. 19; Gaz. vol. 219; p. 711.
- Shade-support. M. E. Hertwig. No. 1,130,973; Mar. 9; Gaz. vol. 212; p. 428.
- Shade-support. C. H. Petersen. No. 1,124,945; Jan. 12; Gaz. vol. 210; p. 657.
- Shade support, Window-. S. R. Lewis. No. 1,151,886; Aug. 31; Gaz. vol. 217; p. 1463.
- Shade support, Window-. A. F. Luzzi. No. 1,145,153; July 6; Gaz. vol. 216; p. 63.
- Shade, Window-. J. W. Pepple. No. 1,156,807; Oct. 12; Gaz. vol. 219; p. 539.
- Shades, Adjustable support for window-. F. Richardson. No. 1,131,795; Mar. 16; Gaz. vol. 212; p. 749.
- Shaft attachment. F. E. Burnham. No. 1,155,210; Sept. 28; Gaz. vol. 218; p. 1094.
- Shaft attachment, Vehicle. D. B. Gibbons. No. 1,141,791; June 1; Gaz. vol. 215; p. 247.
- Shaft-bearing. A. C. E. Rateau. No. 1,125,172; Jan. 19; Gaz. vol. 210; p. 773.
- Shaft brake, Rotary. W. W. Burke. No. 1,141,230; June 1; Gaz. vol. 215; p. 49.
- Shaft, Collapsible. J. A. Cameron and G. B. Birch. No. 1,138,079; May 4; Gaz. vol. 214; p. 126.
- Shaft-collar. G. L. Cowan. No. 1,124,707; Jan. 12; Gaz. vol. 210; p. 572.
- Shaft connection. C. H. Taylor. No. 1,160,462; Nov. 16; Gaz. vol. 220; p. 805.
- Shaft-coupling. A. Arntzen and F. Rasmussen. No. 1,163,967; Dec. 14; Gaz. vol. 221; p. 476.
- Shaft-coupling. A. E. Barber. No. 1,150,483; Aug. 17; Gaz. vol. 217; p. 877.
- Shaft-coupling. T. C. Dobbins. No. 1,147,620; July 20; Gaz. vol. 216; p. 966.
- Shaft-coupling. E. P. Edwards. No. 1,148,960; Aug. 3; Gaz. vol. 217; p. 168.
- Shaft-coupling. W. Faltin. No. 1,166,401; Dec. 28; Gaz. vol. 221; p. 1412.
- Shaft-coupling. H. C. Hart. No. 1,140,978; May 25; Gaz. vol. 214; p. 1253.
- Shaft-coupling. M. Hartwig. No. 1,154,766; Sept. 28; Gaz. vol. 218; p. 941.
- Shaft-coupling. G. P. Haynes. No. 1,147,240; July 20; Gaz. vol. 216; p. 833.
- Shaft-coupling. A. Hupp. No. 1,126,219; Jan. 26; Gaz. vol. 210; p. 1181.
- Shaft-coupling. J. Kennedy. No. 1,145,489; July 6; Gaz. vol. 216; p. 180.
- Shaft-coupling. I. Lehman. No. 1,148,594; Aug. 3; Gaz. vol. 217; p. 40.
- Shaft-coupling. W. H. Lieber. No. 1,145,602; July 6; Gaz. vol. 216; p. 218.
- Shaft-coupling. E. J. Madden. No. 1,146,727; July 13; Gaz. vol. 216; p. 632.
- Shaft-coupling. W. J. Price. No. 1,158,844; Nov. 2; Gaz. vol. 220; p. 153.
- Shaft-coupling. R. H. Rice. No. 1,156,493; Oct. 12; Gaz. vol. 219; p. 432.

- Shaft-coupling. F. E. Saecker. No. 1,137,290; Apr. 27; Gaz. vol. 213; p. 1260.
- Shaft-coupling. F. Shaw. No. 1,140,855; May 25; Gaz. vol. 214; p. 1209.
- Shaft-coupling. J. E. Sparling. No. 1,163,276; Dec. 7; Gaz. vol. 221; p. 189.
- Shaft-coupling. K. A. Stählnacke. No. 1,165,031; Dec. 21; Gaz. vol. 221; p. 888.
- Shaft-coupling. H. Steinhart. No. 1,140,628; May 25; Gaz. vol. 214; p. 1132.
- Shaft-coupling. C. L. Taylor. No. 1,149,306; Aug. 10; Gaz. vol. 217; p. 395.
- Shaft-coupling. Universal. M. C. Christensen. No. 1,142,750; June 8; Gaz. vol. 215; p. 617.
- Shaft-coupling. Universal. P. Turon. No. 1,155,629; Oct. 5; Gaz. vol. 219; p. 105.
- Shaft-drive. R. M. Dixon. No. 1,164,933; Dec. 21; Gaz. vol. 221; p. 854.
- Shaft drive, Cam-. E. P. Nagle. No. 1,144,492; June 29; Gaz. vol. 215; p. 1319.
- Shaft, Expanding. J. F. Dooley and W. W. Howard. No. 1,128,955; Feb. 16; Gaz. vol. 211; p. 892.
- Shaft, Flexible. G. T. Bond. No. 1,157,148; Oct. 19; Gaz. vol. 219; p. 692.
- Shaft, Flexible. W. Schürmann. No. 1,137,794; May 4; Gaz. vol. 214; p. 25.
- Shaft, Flexible. C. H. Veeder. No. 1,144,624; June 29; Gaz. vol. 215; p. 1363.
- Shaft-furnace for coking and gasifying coal. J. Lutz. No. 1,164,295; Dec. 14; Gaz. vol. 221; p. 590.
- Shaft-governor. H. F. Shepherd. No. 1,164,021; Dec. 14; Gaz. vol. 221; p. 495.
- Shaft-guard. W. J. Perkins. No. 1,139,441; May 11; Gaz. vol. 214; p. 642.
- Shaft-hanger. H. F. Gade. No. 1,165,332; Dec. 21; Gaz. vol. 221; p. 992.
- Shaft-hanger. C. O. Wood. No. 1,130,233; Mar. 2; Gaz. vol. 212; p. 136.
- Shaft-hanger, Sheet-metal. C. A. Condé. No. 1,130,709; Mar. 9; Gaz. vol. 212; p. 338.
- Shaft-lock. C. Watterston. No. 1,150,406; Aug. 17; Gaz. vol. 217; p. 850.
- Shaft-locking means. M. A. Drotteour. No. 1,163,898; Dec. 14; Gaz. vol. 221; p. 452.
- Shaft mechanism, Drop-brake-. L. C. Sparks. No. 1,164,318; Dec. 14; Gaz. vol. 221; p. 599.
- Shaft-operating mechanism. J. O. Neikirk. No. 1,125,033; Jan. 12; Gaz. vol. 210; p. 687.
- Shaft-operating mechanism. J. O. Neikirk and A. G. Bancroft. No. 1,166,073; Dec. 28; Gaz. vol. 221; p. 1290.
- Shaft-operator. L. B. Smyser. No. 1,135,731; Apr. 13; Gaz. vol. 213; p. 628.
- Shaft or chain, Flexible. O. Ohlson. No. 1,146,015; July 13; Gaz. vol. 216; p. 384.
- Shaft-releasing and brake-applying device for vehicles. E. C. Bliss. No. 1,156,661; Oct. 12; Gaz. vol. 219; p. 492.
- Shaft-shield. H. J. Tynan. No. 1,153,467; Sept. 14; Gaz. vol. 218; p. 429.
- Shaft-support. F. W. Witte. No. 1,136,637; Apr. 20; Gaz. vol. 213; p. 987.
- Shaft-support, Vehicle. E. E. Atkinson and C. F. Overmyer. No. 1,125,036; Jan. 19; Gaz. vol. 210; p. 723.
- Shafts and other parts, Journaling device for. C. A. T. Sørensen. No. 1,156,188; Oct. 12; Gaz. vol. 219; p. 325.
- Shafts, Buggy-. N. W. McMillan. No. 1,126,242; Jan. 26; Gaz. vol. 210; p. 1190.
- Shafts, Means for fixing machine elements on. A. A. Merritt. No. 1,134,478; Apr. 6; Gaz. vol. 213; p. 144.
- Shafts, Removable handle for rock-. J. Cassidy. No. 1,160,259; Nov. 16; Gaz. vol. 220; p. 735.
- Shafts, Renewable sleeve for rotatable. H. Hoffman. No. 1,139,120; May 11; Gaz. vol. 214; p. 531.
- Shafting, Appliance for aligning and leveling. C. Hafner. No. 1,134,125; Apr. 6; Gaz. vol. 213; p. 15.
- Shake-head connection. B. D. Coppage. No. 1,154,613; Sept. 28; Gaz. vol. 218; p. 889.
- Shaker-plate. T. Kerrigan. No. 1,164,723; Dec. 21; Gaz. vol. 221; p. 780.
- Shaking-screen. P. M. Kuehn. No. 1,159,317; Nov. 2; Gaz. vol. 220; p. 316.
- Shampoo-spray. A. A. Staab. No. 1,146,662; July 13; Gaz. vol. 216; p. 611.
- Shaper attachment. C. B. Rumsey. No. 1,154,729; Sept. 28; Gaz. vol. 218; p. 928.
- Shaper-head. G. V. Fellows. No. 1,136,415; Apr. 20; Gaz. vol. 213; p. 910.
- Shaping-machine. R. F. Smith. No. 1,163,477; Dec. 7; Gaz. vol. 221; p. 259.
- Shaping-machine. J. Wegner. No. 1,130,454; Mar. 2; Gaz. vol. 212; p. 215.
- Shaping-machine frame. K. Jung. No. 1,164,003; Dec. 14; Gaz. vol. 221; p. 489.
- Share, Detachable. W. Klug. No. 1,135,818; Apr. 13; Gaz. vol. 213; p. 657.
- Sharpener, Ax-. F. A. Wilson. No. 1,124,092; Jan. 5; Gaz. vol. 210; p. 304.
- Sharpener, Blade-. R. W. Banks, Jr. No. 1,145,053; July 6; Gaz. vol. 216; p. 29.
- Sharpener, Blade-. R. E. Kimball. No. 1,152,321; Aug. 31; Gaz. vol. 217; p. 1611.
- Sharpener, Blade-. E. L. Williams. No. 1,131,450; Mar. 9; Gaz. vol. 212; p. 592.
- Sharpener, Disk-. R. H. Fordyce. No. 1,163,994; Dec. 14; Gaz. vol. 221; p. 486.
- Sharpener, Disk-. J. W. Potts and J. H. Keene. No. 1,124,800; Jan. 12; Gaz. vol. 210; p. 606.
- Sharpener, Drill-. T. H. Proske. No. 1,123,372; Jan. 5; Gaz. vol. 210; p. 60.
- Sharpener for hair-clippers. W. G. Ackerman. No. 1,141,095; June 1; Gaz. vol. 215; p. 3.
- Sharpener for rotary blades. J. M. Peterson. No. 1,165,342; Dec. 21; Gaz. vol. 221; p. 996.
- Sharpener, Knife-. P. J. Callahan. No. 1,134,587; Apr. 6; Gaz. vol. 213; p. 184.
- Sharpener, Knife-. E. E. Carneal. No. 1,165,070; Dec. 21; Gaz. vol. 221; p. 902.
- Sharpener, Knife-. P. M. Church. No. 1,154,375; Sept. 21; Gaz. vol. 218; p. 731.
- Sharpener, Knife-. G. B. N. Dow and J. F. Cavanaugh. No. 1,127,869; Feb. 9; Gaz. vol. 211; p. 464.
- Sharpener, Knife-. G. B. N. Dow and J. F. Cavanaugh. No. 1,142,030; June 8; Gaz. vol. 215; p. 369.
- Sharpener, Knife-. A. D. Goodwin. No. 1,165,245; Dec. 21; Gaz. vol. 221; p. 964.
- Sharpener, Knife-. E. B. Haywood. No. 1,131,374; Mar. 9; Gaz. vol. 212; p. 565.
- Sharpener, Knife-. W. L. Taylor and R. G. Newton. No. 1,151,627; Aug. 31; Gaz. vol. 217; p. 1373.
- Sharpener, Knife-. G. Tkach. No. 1,130,352; Mar. 2; Gaz. vol. 212; p. 177.
- Sharpener, Knife-. J. Walker. No. 1,134,359; Apr. 6; Gaz. vol. 213; p. 101.
- Sharpener, Knife-. R. Zaweracz. No. 1,143,096; June 15; Gaz. vol. 215; p. 731.
- Sharpener, Lawn-mower. W. E. Arnold. No. 1,123,975; Jan. 5; Gaz. vol. 210; p. 264.
- Sharpener, Lawn-mower. J. Hineman. No. 1,124,900; Jan. 12; Gaz. vol. 210; p. 641.
- Sharpener, Lawn-mower. C. F. Judson. No. 1,152,736; Sept. 7; Gaz. vol. 218; p. 131.
- Sharpener, Lawn-mower. J. Onsel. No. 1,130,624; Mar. 2; Gaz. vol. 212; p. 273.
- Sharpener, Lawn-mower. L. Orsle. No. 1,128,716; Feb. 16; Gaz. vol. 211; p. 806.
- Sharpener, Lawn-mower. F. H. Patterson. No. 1,163,950; Dec. 14; Gaz. vol. 221; p. 471.
- Sharpener, Lawn-mower. K. E. Stahl. No. 1,129,133; Feb. 23; Gaz. vol. 211; p. 990.
- Sharpener, Razor-blade. G. G. Floyd. No. 1,135,511; Apr. 13; Gaz. vol. 213; p. 549.
- Sharpener, Razor-blade. M. A. Haldeen. No. 1,159,763; Nov. 9; Gaz. vol. 220; p. 508.
- Sharpener, Razor-blade. J. M. Stivers and A. C. Enochs. No. 1,135,633; Apr. 13; Gaz. vol. 213; p. 593.
- Sharpener, Rotating-blade. A. E. Conrardy and C. H. Wagner. No. 1,149,031; Aug. 3; Gaz. vol. 217; p. 193.
- Sharpener, Safety-razor-blade. W. O. Faist. No. 1,132,079; Mar. 16; Gaz. vol. 212; p. 851.
- Sharpener, Saw-. W. F. Brown. No. 1,145,746; July 6; Gaz. vol. 216; p. 270.
- Sharpener, Saw-. J. Zuleg. No. 1,135,245; Apr. 13; Gaz. vol. 213; p. 455.
- Sharpener, Scissors-. J. M. Allen. No. 1,130,695; Mar. 9; Gaz. vol. 212; p. 333.
- Sharpening apparatus, Drill-. A. H. Skaer. No. 1,159,722; Nov. 9; Gaz. vol. 220; p. 492.
- Sharpening attachment for ensilage-cutters. L. B. Glantz. No. 1,149,255; Aug. 10; Gaz. vol. 217; p. 375.
- Sharpening chalk disks, Device for. A. J. Cwiek. No. 1,126,409; Jan. 26; Gaz. vol. 210; p. 1248.
- Sharpening device. E. A. Christoph and E. T. Mueller. No. 1,165,750; Dec. 28; Gaz. vol. 221; p. 1180.
- Sharpening device. M. L. Hawks. No. 1,158,048; Oct. 26; Gaz. vol. 219; p. 1070.
- Sharpening device, Razor-. R. H. Strong. No. 1,131,170; Mar. 9; Gaz. vol. 212; p. 494.
- Sharpening device, Safety-razor-. S. Klein. No. 1,160,176; Nov. 16; Gaz. vol. 220; p. 708.
- Sharpening device, Saw-. J. R. Smith. No. 1,143,084; June 15; Gaz. vol. 215; p. 777.
- Sharpening holder, Safety-razor-blade-. J. A. Carmon. No. 1,123,242; Jan. 5; Gaz. vol. 210; p. 14.
- Sharpening-machine. R. S. Green. No. 1,143,383; June 15; Gaz. vol. 215; p. 883.
- Sharpening-machine. T. Perkins. No. 1,146,513; July 13; Gaz. vol. 216; p. 561.
- Sharpening machine, Calk-. F. Pohle, Jr. No. 1,153,825; Sept. 14; Gaz. vol. 218; p. 555.
- Sharpening-machine for edge-tools. H. W. Busler. No. 1,139,485; May 18; Gaz. vol. 214; p. 694.
- Sharpening machine, Saw-. T. H. Laury. No. 1,157,558; Oct. 19; Gaz. vol. 219; p. 835.
- Sharpening machine, Saw-. J. H. Miner. No. 1,159,064; Nov. 2; Gaz. vol. 220; p. 226.
- Sharpening machine, Saw-. J. Miotke. No. 1,157,890; Oct. 26; Gaz. vol. 219; p. 1015.
- Sharpening machine, Saw-. G. E. Rhodes. No. 1,137,664; Apr. 27; Gaz. vol. 213; p. 1388.
- Sharpening machine, Saw-. M. Wagner. No. 1,153,982; Sept. 21; Gaz. vol. 218; p. 644.

Alphabetical list of inventions—Continued.

- Sharpening of the perforated disks and cross-knives of cutting sets, &c., Device for the automatic. E. Hagenmüller. No. 1,165,873; Dec. 28; Gaz. vol. 221; p. 1221.
- Sharpening razor and other blades, Machine for. A. J. Fix. No. 1,144,467; June 29; Gaz. vol. 215; p. 1311.
- Sharpening razor-blades, Device for. R. H. Strong. No. 1,129,918; Mar. 2; Gaz. vol. 212; p. 29.
- Sharpening razors and other edge-tools, Machine for. F. H. Ryan. No. 1,148,462; July 27; Gaz. vol. 216; p. 1289.
- Sharpening rotary blades, Device for. G. J. Sayer. No. 1,129,736; Feb. 23; Gaz. vol. 211; p. 1196.
- Sharpening safety-razor blades, Machine for. A. L. Hatfield. No. 1,123,871; Jan. 5; Gaz. vol. 210; p. 230.
- Sharpening safety-razor blades, &c., Machine for. A. L. Hatfield. No. 1,124,733; Jan. 12; Gaz. vol. 210; p. 581.
- Sharpening shears, Device for. W. C. B. Farrar. No. 1,148,303; July 27; Gaz. vol. 216; p. 1234.
- Sharpening worn files, Chemical process of. A. J. Zilrsen. No. 1,161,816; Nov. 23; Gaz. vol. 220; p. 1330.
- Shavers' use, Sanitary package for. W. M. Klein. No. 1,150,207; Aug. 17; Gaz. vol. 217; p. 781.
- Shaving and clipping machine, Combined. M. E. Ryan. No. 1,152,911; Sept. 7; Gaz. vol. 218; p. 195.
- Shaving-cup, Aseptic. J. M. Allsaw. No. 1,143,879; June 22; Gaz. vol. 215; p. 1076.
- Shaving-cup, Sanitary. E. W. Wilson. No. 1,138,825; May 11; Gaz. vol. 214; p. 426.
- Shaving-machine attachment. F. F. Latta. No. 1,137,497; Apr. 27; Gaz. vol. 213; p. 1333.
- Shaving-mug. A. H. Butcheck and A. H. Lawton. No. 1,158,785; Nov. 2; Gaz. vol. 220; p. 132.
- Shaving-mug. A. H. Ehlert. No. 1,160,866; Nov. 16; Gaz. vol. 220; p. 950.
- Shaving set. H. J. Gaisman. No. 1,140,030; May 18; Gaz. vol. 214; p. 887.
- Shawl. G. S. Tallyday. No. 1,157,341; Oct. 19; Gaz. vol. 219; p. 760.
- Sheaf-loader. J. T. Bergman. No. 1,124,274; Jan. 12; Gaz. vol. 210; p. 416.
- Sheaf-loader attachment. C. H. Barker. No. 1,145,878; July 13; Gaz. vol. 216; p. 336.
- Shear-gage. W. Worthington. No. 1,150,921; Aug. 24; Gaz. vol. 217; p. 1086.
- Shear-table. W. T. Ryan. No. 1,150,541; Aug. 17; Gaz. vol. 217; p. 897.
- Shears: See—
Animal-shears. Pruning-shears.
Grape-shears.
- Shears. J. F. Black. No. 1,134,814; Apr. 6; Gaz. vol. 213; p. 265.
- Shears. H. Clauss. No. 1,159,360; Nov. 9; Gaz. vol. 220; p. 362.
- Shears. I. W. Frank. No. 1,140,897; May 25; Gaz. vol. 214; p. 1225.
- Shears. W. E. Harris. No. 1,151,874; Aug. 31; Gaz. vol. 217; p. 1458.
- Shears. E. A. Johnson. No. 1,124,025; Jan. 5; Gaz. vol. 210; p. 280.
- Shears. W. I. Jones. No. 1,129,685; Feb. 23; Gaz. vol. 211; p. 1179.
- Shears. W. A. Kilmer. No. 1,158,505; Nov. 2; Gaz. vol. 220; p. 33.
- Shears attachment. J. Scarlett. No. 1,124,335; Jan. 12; Gaz. vol. 210; p. 437.
- Shears especially applicable for hedge-cutting and the like. C. F. Wagner. No. 1,151,913; Aug. 31; Gaz. vol. 217; p. 1472.
- Shears for metal bars. W. J. Bradley. No. 1,127,857; Feb. 9; Gaz. vol. 211; p. 460.
- Shears treadle mechanism. J. J. and J. J. Kutscheld. No. 1,146,175; July 13; Gaz. vol. 216; p. 440.
- Shearing-machine. W. K. Carnes. No. 1,159,828; Nov. 9; Gaz. vol. 220; p. 531.
- Shearing-machine. A. U. Leonhauser. No. 1,142,974; June 15; Gaz. vol. 215; p. 738.
- Shearing-machines, Means for securing blades in. E. H. Carroll. No. 1,146,475; July 13; Gaz. vol. 216; p. 548.
- Shearing or clipping machine. A. Hawtrej. No. 1,163,819; Dec. 14; Gaz. vol. 221; p. 427.
- Shearing sheep skins and hides, Machine for. H. A. Roberts. No. 1,164,751; Dec. 21; Gaz. vol. 221; p. 790.
- Sheath or scabbard. F. R. Batchelder. No. 1,131,196; Mar. 9; Gaz. vol. 212; p. 504.
- Sheath or scabbard. V. H. Jennings. No. 1,132,144; Mar. 23; Gaz. vol. 212; p. 1289.
- Sheathing, Metallic. H. S. Hale. No. 1,164,643; Dec. 21; Gaz. vol. 221; p. 753.
- Sheave-block. C. B. King and C. B. Weston. No. 1,149,837; Aug. 10; Gaz. vol. 217; p. 586.
- Sheave-block, Multiple. L. G. Ruggles. No. 1,165,363; Dec. 21; Gaz. vol. 221; p. 1004.
- Sheaves and means for operating the same, Interlocking. J. R. McGiffert and T. H. Blair. No. 1,152,528; Sept. 7; Gaz. vol. 218; p. 55.
- Sheaves, Means for supporting. O. B. Mueller and D. H. Buell. No. 1,145,916; July 13; Gaz. vol. 216; p. 348.
- Sheep-dipper, Automatic. J. J. Roberson. No. 1,152,910; Sept. 7; Gaz. vol. 218; p. 195.
- Sheet-aligning mechanism. L. C. Steele. No. 1,136,059; Apr. 20; Gaz. vol. 213; p. 782.
- Sheet and book, Manifold. O. Loewenbach. No. 1,162,376; Nov. 30; Gaz. vol. 220; p. 1572.
- Sheet-centralizing mechanism. G. P. Brand. No. 1,143,684; June 22; Gaz. vol. 215; p. 1010.
- Sheet-coating machine. E. M. Hawkins. No. 1,133,024; Mar. 23; Gaz. vol. 212; p. 1247.
- Sheet collecting, associating, and folding machine. H. M. Barber. No. 1,148,003; July 27; Gaz. vol. 216; p. 1126.
- Sheet collecting, associating, and folding machine. H. M. Barber. No. 1,148,004; July 27; Gaz. vol. 216; p. 1127.
- Sheet-conveyer. A. J. Freeman. No. 1,133,630; Mar. 30; Gaz. vol. 212; p. 1498.
- Sheet-delivery mechanism. E. W. Cooper. No. 1,160,264; Nov. 16; Gaz. vol. 220; p. 737.
- Sheet-delivery mechanism. E. W. Cooper. No. 1,160,854; Nov. 16; Gaz. vol. 220; p. 947.
- Sheet-delivery mechanism. M. A. Droitcour. No. 1,146,930; July 20; Gaz. vol. 216; p. 724.
- Sheet-delivery mechanism. E. P. Sheldon. No. 1,133,407; Mar. 30; Gaz. vol. 212; p. 1418.
- Sheet-delivery mechanism. B. F. Upham. No. 1,125,218; Jan. 19; Gaz. vol. 210; p. 790.
- Sheet-delivery mechanism. J. White. No. 1,156,957; Oct. 19; Gaz. vol. 219; p. 624.
- Sheet-fastening device. J. H. Horne. No. 1,161,132; Nov. 23; Gaz. vol. 220; p. 1090.
- Sheet-feeder. M. A. Droitcour. No. 1,146,929; July 20; Gaz. vol. 216; p. 724.
- Sheet-feeder. C. W. Halberg, G. B. Mier, and A. J. Hodge. No. 1,161,768; Nov. 23; Gaz. vol. 220; p. 1313.
- Sheet-feeder. W. F. Minnick. No. 1,123,348; Jan. 5; Gaz. vol. 210; p. 52.
- Sheet-feeders, Driving mechanism for. G. Spiess. No. 1,138,327; May 4; Gaz. vol. 214; p. 214.
- Sheet-feeding and like machines, Controlling device for use in. G. Spiess. No. 1,160,208; Nov. 16; Gaz. vol. 220; p. 718.
- Sheet-feeding apparatus. A. B. Dick. No. 1,140,884; May 25; Gaz. vol. 214; p. 1220.
- Sheet-feeding machine. R. Freeman. No. 1,156,357; Oct. 12; Gaz. vol. 219; p. 883.
- Sheet-feeding machine. V. Garner. No. 1,149,573; Aug. 10; Gaz. vol. 217; p. 489.
- Sheet-feeding machine. V. Garner. No. 1,149,574; Aug. 10; Gaz. vol. 217; p. 489.
- Sheet-feeding machine. V. Garner. No. 1,161,933; Nov. 30; Gaz. vol. 220; p. 1418.
- Sheet-feeding machine. H. K. King. No. 1,154,406; Sept. 21; Gaz. vol. 218; p. 790.
- Sheet-feeding machine. H. K. King. No. 1,154,407; Sept. 21; Gaz. vol. 218; p. 791.
- Sheet-feeding machines, Pile-elevator for. E. O. Cartwright. No. 1,141,773; June 1; Gaz. vol. 215; p. 241.
- Sheet-feeding means. P. Kruse. No. 1,153,434; Sept. 14; Gaz. vol. 218; p. 418.
- Sheet-feeding mechanism. H. D. Caylor and W. A. Scott. No. 1,147,308; July 20; Gaz. vol. 216; p. 855.
- Sheet-feeding mechanism. M. Dinnebie and A. Winkler. No. 1,153,295; Sept. 14; Gaz. vol. 218; p. 366.
- Sheet-feeding mechanism. W. C. Glass. No. 1,135,175; Apr. 13; Gaz. vol. 213; p. 433.
- Sheet-feeding mechanism. H. E. Harbaugh. No. 1,127,991; Feb. 9; Gaz. vol. 211; p. 506.
- Sheet-feeding mechanism. S. M. Langston. No. 1,150,210; Aug. 17; Gaz. vol. 217; p. 781.
- Sheet-feeding mechanism. A. Novick. No. 1,134,550; Apr. 6; Gaz. vol. 213; p. 170.
- Sheet-feeding mechanism. J. S. Stokes and J. D. Reifsnnyder. No. 1,136,562; Apr. 20; Gaz. vol. 213; p. 961.
- Sheet-guide for pneumatically-actuated mechanism. F. J. Clark. No. 1,158,639; Nov. 2; Gaz. vol. 220; p. 81.
- Sheet-handling apparatus, Stop means for. P. J. Dreher. No. 1,143,369; June 15; Gaz. vol. 215; p. 878.
- Sheet-handling machine. R. C. Seymour. No. 1,165,911; Dec. 28; Gaz. vol. 221; p. 1234.
- Sheet-manipulating mechanism. H. A. W. Wood. No. 1,133,352; Mar. 30; Gaz. vol. 212; p. 1398.
- Sheet material, Apparatus for making. H. M. Conger. No. 1,157,149; Oct. 19; Gaz. vol. 219; p. 692.
- Sheet-material drier. W. S. Kinsley. No. 1,164,288; Dec. 14; Gaz. vol. 221; p. 588.
- Sheet material, Trimmer for. W. H. Johnson, A. L. Bird and C. E. Connell. No. 1,161,774; Nov. 23; Gaz. vol. 220; p. 1315.
- Sheet metal and its production. C. F. Burgess. No. 1,144,106; June 22; Gaz. vol. 215; p. 1158.
- Sheet-metal articles, Apparatus for forming. J. D. Artz. No. 1,164,698; Dec. 21; Gaz. vol. 221; p. 772.
- Sheet-metal articles, Dies for making. J. De Gaeta. No. 1,161,628; Nov. 23; Gaz. vol. 220; p. 1265.
- Sheet-metal bands, Making. S. C. Cary. No. 1,131,037; Mar. 9; Gaz. vol. 212; p. 450.
- Sheet-metal-bending machine. F. Goeler. No. 1,131,055; Mar. 9; Gaz. vol. 212; p. 456.
- Sheet-metal-bending machine. F. Goeler. No. 1,162,050; Nov. 30; Gaz. vol. 220; p. 1458.
- Sheet-metal-bending machine. C. T. Tarpenning. No. 1,127,109; Feb. 2; Gaz. vol. 211; p. 157.
- Sheet-metal-blank-flanging device. P. Kruse. No. 1,135,534; Apr. 13; Gaz. vol. 213; p. 556.
- Sheet-metal bolt. G. W. Bowen. No. 1,162,746; Dec. 7; Gaz. vol. 221; p. 6.

- Sheet-metal box. H. L. Hudson. No. 1,160,611; Nov. 16; Gaz. vol. 220; p. 860.
- Sheet-metal box. G. Klenk. No. 1,139,536; May 18; Gaz. vol. 214; p. 711.
- Sheet-metal box. G. Klenk. No. 1,139,537; May 18; Gaz. vol. 214; p. 712.
- Sheet-metal box, Folding. W. J. Rouse. No. 1,164,755; Dec. 21; Gaz. vol. 221; p. 791.
- Sheet-metal box or tray. R. F. Hamilton and D. Lipsich. No. 1,148,015; July 27; Gaz. vol. 216; p. 1131.
- Sheet-metal box or tray. R. F. Hamilton and D. Lipsich. No. 1,148,016; July 27; Gaz. vol. 216; p. 1131.
- Sheet-metal can. C. S. Hardy. No. 1,160,074; Nov. 9; Gaz. vol. 220; p. 617.
- Sheet-metal can. S. Marzynski. No. 1,137,879; May 4; Gaz. vol. 214; p. 54.
- Sheet-metal closure. A. L. Weissenhanner. No. 1,129,150; Feb. 23; Gaz. vol. 211; p. 995.
- Sheet-metal cutter. C. J. Holub. No. 1,154,924; Sept. 28; Gaz. vol. 218; p. 994.
- Sheet-metal-cutting machine. C. B. Gray. No. 1,155,479; Oct. 5; Gaz. vol. 219; p. 55.
- Sheet-metal elbows, Producing. A. Diekmann. No. 1,157,852; Oct. 26; Gaz. vol. 219; p. 1000.
- Sheet-metal-expanding machine, Ribbed. H. E. White. No. 1,125,786; Jan. 19; Gaz. vol. 210; p. 993.
- Sheet-metal-forming machine. C. A. Weirich. No. 1,154,951; Sept. 28; Gaz. vol. 218; p. 1003.
- Sheet-metal frame. C. A. Johnson. (Reissue.) No. 1,398,7; Sept. 21; Gaz. vol. 218; p. 857.
- Sheet metal into shape, Apparatus for forming. A. J. Ellis and C. E. Nellis. No. 1,142,242; June 8; Gaz. vol. 215; p. 443.
- Sheet metal. Machine for making expanded. J. G. Hubbard and W. R. Wilson. No. 1,163,924; Dec. 14; Gaz. vol. 221; p. 461.
- Sheet-metal plates, Cleaning. F. Eberhart. No. 1,136,110; Apr. 20; Gaz. vol. 213; p. 799.
- Sheet-metal plates, Manipulation of. E. C. Pool. No. 1,141,412; June 1; Gaz. vol. 215; p. 118.
- Sheet metal, Radially corrugating. A. W. Livingston. No. 1,159,322; Nov. 2; Gaz. vol. 220; p. 318.
- Sheet-metal receptacle. F. Bain. No. 1,123,218; Jan. 5; Gaz. vol. 210; p. 5.
- Sheet-metal seams, Device for closing. J. L. Hemp. No. 1,156,599; Oct. 12; Gaz. vol. 219; p. 468.
- Sheet-metal shapes, Clamp for forming. N. M. Willet. No. 1,154,224; Sept. 21; Gaz. vol. 218; p. 726.
- Sheet-metal-shaping machine. W. C. Buhles. No. 1,126,699; Feb. 2; Gaz. vol. 211; p. 11.
- Sheet-metal-shaping means. L. Bauroth. No. 1,129,625; Feb. 23; Gaz. vol. 211; p. 1162.
- Sheet-metal-shaping means. L. Bauroth. No. 1,129,626; Feb. 23; Gaz. vol. 211; p. 1162.
- Sheet-metal spools, Forming. E. J. Hubbard. No. 1,155,357; Oct. 5; Gaz. vol. 219; p. 11.
- Sheet-metal structural section. J. H. Schlafly. No. 1,141,417; June 1; Gaz. vol. 215; p. 119.
- Sheet-metal structure. M. J. Doner. No. 1,161,764; Nov. 23; Gaz. vol. 220; p. 1311.
- Sheet-metal structure, Portable. R. E. Kelm. No. 1,165,881; Dec. 28; Gaz. vol. 221; p. 1224.
- Sheet-metal tank. O. K. Harry. No. 1,157,158; Oct. 19; Gaz. vol. 219; p. 695.
- Sheet-metal-tube-planishing machine. B. F. Winterhoff. No. 1,162,536; Nov. 30; Gaz. vol. 220; p. 1627.
- Sheet or label, Composition. H. M. Conger. No. 1,163,894; Dec. 14; Gaz. vol. 221; p. 451.
- Sheet-registering device. E. Cheshire. No. 1,135,766; Apr. 13; Gaz. vol. 213; p. 639.
- Sheet separating and feeding mechanism, Single. J. D. Reifsnnyder and W. A. Saatman. No. 1,152,358; Aug. 31; Gaz. vol. 217; p. 1626.
- Sheet separating and moving device. E. Cheshire. No. 1,145,403; July 6; Gaz. vol. 216; p. 149.
- Sheet-stack handling mechanism. F. Eberhart. No. 1,152,403; Sept. 7; Gaz. vol. 218; p. 8.
- Sheet-straightening and slow-down device. A. J. Hughes and R. E. Jones. No. 1,154,864; Sept. 28; Gaz. vol. 218; p. 973.
- Sheet transporting and stacking apparatus. G. Z. Smith. No. 1,141,277; June 1; Gaz. vol. 215; p. 67.
- Sheet-turning apparatus. W. Forstrom. No. 1,164,277; Dec. 14; Gaz. vol. 221; p. 584.
- Sheets from a pile or stack, Apparatus for separating. J. Heinrich. No. 1,143,708; June 22; Gaz. vol. 215; p. 1018.
- Sheets in exact position before delivery, Device for placing single. G. Spless. No. 1,126,584; Jan. 26; Gaz. vol. 210; p. 1314.
- Sheets, Machine for making master-. P. J. Meahl. No. 1,156,701; Oct. 12; Gaz. vol. 219; p. 505.
- Sheets or layers, Machine for cutting. E. I. Braddock. No. 1,160,833; Nov. 16; Gaz. vol. 220; p. 940.
- Shelf, Hinged. A. C. Mott, Jr. No. 1,165,112; Dec. 21; Gaz. vol. 221; p. 918.
- Shelves, Extension-. M. J. Casey. No. 1,156,755; Oct. 12; Gaz. vol. 219; p. 523.
- Shelving. F. Aronson. No. 1,138,586; May 4; Gaz. vol. 214; p. 301.
- Shelving. J. E. Bales. No. 1,140,940; May 25; Gaz. vol. 214; p. 1240.
- Shelving. D. G. Lamb. No. 1,165,609; Dec. 28; Gaz. vol. 221; p. 1129.
- Shelving. S. D. Leland. No. 1,136,245; Apr. 20; Gaz. vol. 213; p. 847.
- Shelving. J. B. O'Connor. No. 1,165,703; Dec. 28; Gaz. vol. 221; p. 1163.
- Shelving. A. T. Winquist. No. 1,164,439; Dec. 14; Gaz. vol. 221; p. 642.
- Shelving, Adjustable. A. A. Carter. No. 1,153,371; Sept. 14; Gaz. vol. 218; p. 395.
- Shelving, Adjustable sectional. A. H. Schaffert. No. 1,161,792; Nov. 23; Gaz. vol. 220; p. 1322.
- Shelving, Adjustable unit-. A. H. Schaffert. No. 1,126,094; Jan. 26; Gaz. vol. 210; p. 1136.
- Shelving, Metal. A. C. Terrell. No. 1,141,991; June 8; Gaz. vol. 215; p. 354.
- Shelving, Steel. T. M. Lothrop. No. 1,135,970; Apr. 13; Gaz. vol. 213; p. 711.
- Shell. A. H. Le Van. No. 1,134,080; Mar. 30; Gaz. vol. 212; p. 1653.
- Shell. J. H. Pivonka. No. 1,146,950; July 20; Gaz. vol. 216; p. 731.
- Shell and automatically-interlocking shell and switch-mechanism socket, Combined removable-key single-piece. H. W. Lawrence. No. 1,154,257; Sept. 21; Gaz. vol. 218; p. 738.
- Shell, Armor-piercing. H. H. C. Dunwoody. No. 1,146,484; July 13; Gaz. vol. 216; p. 551.
- Shell-closer for shell-making machines. H. Auchu. No. 1,127,718; Feb. 9; Gaz. vol. 211; p. 408.
- Shell for dynamite or other explosives. F. Dutcher. No. 1,147,622; July 20; Gaz. vol. 216; p. 967.
- Shell or projectile. H. H. C. Dunwoody. No. 1,150,667; Aug. 17; Gaz. vol. 217; p. 940.
- Shell, Tool for forming polygonal sides upon a hollow metal. W. E. Sherbondy. No. 1,152,984; Sept. 7; Gaz. vol. 218; p. 222.
- Shells, Producing closures on. H. Auchu. No. 1,123,976; Jan. 5; Gaz. vol. 210; p. 264.
- Sheller. See—Nut-sheller.
- Corn-sheller.
- Shield. J. Kurek. No. 1,163,094; Dec. 7; Gaz. vol. 221; p. 125.
- Shield, Sanitary. E. L. Bainbridge-Bell. No. 1,138,440; May 4; Gaz. vol. 214; p. 253.
- Shifting mechanism, Time-controlled. E. G. Miller. No. 1,123,346; Jan. 5; Gaz. vol. 210; p. 52.
- Shingle. C. S. Bird. No. 1,153,418; Sept. 14; Gaz. vol. 218; p. 412.
- Shingle. G. P. Heppes. No. 1,159,766; Nov. 9; Gaz. vol. 220; p. 509.
- Shingle. J. A. Wheeler. No. 1,123,449; Jan. 5; Gaz. vol. 210; p. 87.
- Shingle, &c., and making same, Weather and flame resistant. S. R. Church. No. 1,155,130; Sept. 28; Gaz. vol. 218; p. 1067.
- Shingle and slate gage. M. J. Leonard. No. 1,156,159; Oct. 12; Gaz. vol. 219; p. 316.
- Shingle-bracket. F. C. Nickol. No. 1,152,118; Aug. 31; Gaz. vol. 217; p. 1542.
- Shingle-bracket, Folding. B. Gallup. No. 1,154,855; Sept. 28; Gaz. vol. 218; p. 970.
- Shingle, Composition roofing. G. W. Gore. No. 1,150,425; Aug. 17; Gaz. vol. 217; p. 856.
- Shingle-cutting device. C. Neely. No. 1,146,089; July 13; Gaz. vol. 216; p. 410.
- Shingle-machine. T. S. Garrett. No. 1,164,936; Dec. 21; Gaz. vol. 221; p. 856.
- Shingle-machine feed mechanism. F. B. Huntington. No. 1,149,058; Aug. 3; Gaz. vol. 217; p. 203.
- Shingle, Metal. G. A. Gordon. No. 1,153,619; Sept. 14; Gaz. vol. 218; p. 484.
- Shingle, Metallic. J. T. Hamilton. No. 1,143,266; June 15; Gaz. vol. 215; p. 841.
- Shingle-press. O. Hornby. No. 1,135,800; Apr. 13; Gaz. vol. 213; p. 650.
- Shingle, Roofing-. J. Murray. No. 1,151,812; Aug. 31; Gaz. vol. 217; p. 1437.
- Shingle-sawing apparatus. A. C. Jefferson. No. 1,150,036; Aug. 17; Gaz. vol. 217; p. 719.
- Shingle-strip. F. C. Overbury. No. 1,150,298; Aug. 17; Gaz. vol. 217; p. 813.
- Shingles, Asbestos-containing composition for making. C. B. Avers. No. 1,130,240; Mar. 2; Gaz. vol. 212; p. 138.
- Shingling-bracket. C. W. Goff. No. 1,159,372; Nov. 9; Gaz. vol. 220; p. 367.
- Shingling-bracket. T. G. Ross. No. 1,146,595; July 13; Gaz. vol. 216; p. 589.
- Shingling-gage and straight-edge, Combined. H. E. Higgins. No. 1,137,619; Apr. 27; Gaz. vol. 213; p. 1373.
- Shingling seat, Roof-. J. Schimmelpennig. No. 1,143,555; June 15; Gaz. vol. 215; p. 941.
- Ship. J. Paulauski. No. 1,136,711; Apr. 20; Gaz. vol. 213; p. 1014.
- Ship. J. M. Ross. No. 1,164,872; Dec. 21; Gaz. vol. 221; p. 832.
- Ship. W. M. Young. No. 1,155,028; Sept. 28; Gaz. vol. 218; p. 1029.
- Ship and like winch arrangement. G. T. Macfarlane. No. 1,139,131; May 11; Gaz. vol. 214; p. 535.

Alphabetical list of inventions—Continued.

- Ship-bow shield and shock-absorber. C. Gerber. No. 1,130,809; Mar. 9; Gaz. vol. 212; p. 371.
- Ship-brake. J. H. Hyde. No. 1,164,817; Dec. 21; Gaz. vol. 221; p. 814.
- Ship-fender. M. Kunik. No. 1,156,086; Oct. 12; Gaz. vol. 219; p. 291.
- Ship-fender. A. Von Forsman. No. 1,135,415; Apr. 13; Gaz. vol. 213; p. 515.
- Ship loader or unloader. B. H. Alvey. No. 1,156,653; Oct. 12; Gaz. vol. 219; p. 489.
- Ship-raising apparatus. M. Vécsey. No. 1,135,338; Apr. 13; Gaz. vol. 213; p. 488.
- Ship, Sectional. J. M. Ross. No. 1,149,598; Aug. 10; Gaz. vol. 217; p. 498.
- Ship-stabilizer. N. Zduniewicz. No. 1,130,235; Mar. 2; Gaz. vol. 212; p. 137.
- Ship-table. J. Spychalski. No. 1,125,757; Jan. 19; Gaz. vol. 210; p. 982.
- Ship, Unsinkable. P. J. Cahill. No. 1,133,928; Mar. 30; Gaz. vol. 212; p. 1603.
- Ships and discharging cargo therefrom. Apparatus for loading. N. J. Nicolaidis. No. 1,150,699; Aug. 17; Gaz. vol. 217; p. 952.
- Ships, Apparatus for discharging refuse from. G. C. Ralston. No. 1,133,503; Mar. 30; Gaz. vol. 212; p. 1451.
- Ships, Apparatus for releasing life-boats and similar vehicles from. S. Nielsen. No. 1,125,380; Jan. 19; Gaz. vol. 210; p. 849.
- Ship's approach and means therefor. Indicating a. E. C. Wood. No. 1,150,799; Aug. 17; Gaz. vol. 217; p. 985.
- Ships at sea. Means and apparatus for charting the positions of. A. H. Pollen and H. Isherwood. No. 1,123,795; Jan. 5; Gaz. vol. 210; p. 204.
- Ships, Automatic compartment-inflator for. J. B. and M. Kasser. No. 1,135,902; Apr. 13; Gaz. vol. 213; p. 686.
- Ship's ballasting apparatus. A. Kaplan. No. 1,154,515; Sept. 21; Gaz. vol. 218; p. 826.
- Ships, Compartment-inflator for. M. and J. B. Kasser. No. 1,156,602; Oct. 12; Gaz. vol. 219; p. 469.
- Ships, Construction of. G. R. Schueler. No. 1,152,229; Aug. 31; Gaz. vol. 217; p. 1580.
- Ships, Construction of. A. E. Scott. No. 1,131,429; Mar. 9; Gaz. vol. 212; p. 585.
- Ship's deck-seat. C. Ritson. No. 1,126,283; Jan. 26; Gaz. vol. 210; p. 1203.
- Ship's emergency-brake. F. A. Meste. No. 1,165,272; Dec. 21; Gaz. vol. 221; p. 973.
- Ship's fender. J. Paulauski. No. 1,141,577; June 1; Gaz. vol. 215; p. 175.
- Ships, Hatch-cover for. A. N. McGray. No. 1,158,946; Nov. 2; Gaz. vol. 220; p. 187.
- Ship's hull. L. von Köppen. No. 1,136,888; Apr. 20; Gaz. vol. 213; p. 1076.
- Ship's indicator. E. A. Fish. No. 1,145,884; July 13; Gaz. vol. 216; p. 337.
- Ship's log. H. H. Cummings. No. 1,128,417; Feb. 16; Gaz. vol. 211; p. 703.
- Ships, Pneumatic control of inflowing water in damaged. A. R. McAvoy. No. 1,156,792; Oct. 12; Gaz. vol. 219; p. 535.
- Ship's safety device. W. F. Claud. No. 1,145,749; July 6; Gaz. vol. 216; p. 271.
- Ship's-speed or current indicator and recorder. H. H. Cummings. No. 1,128,297; Feb. 16; Gaz. vol. 211; p. 663.
- Ships, Stowing, loading, and launching of boats from. J. C. Snelling. No. 1,125,197; Jan. 19; Gaz. vol. 210; p. 782.
- Ship's table. S. Grzybowski. No. 1,142,163; June 8; Gaz. vol. 215; p. 416.
- Ship's table. R. Klena. No. 1,150,769; Aug. 17; Gaz. vol. 217; p. 975.
- Shipping and display box. B. B. Goldsmith. No. 1,130,811; Mar. 9; Gaz. vol. 212; p. 372.
- Shipping and display case, Combined. G. M. Link. No. 1,147,519; July 20; Gaz. vol. 216; p. 930.
- Shipping and storing vessel cover. J. A. Stephens. No. 1,147,657; July 20; Gaz. vol. 216; p. 980.
- Shipping-box. C. H. Canfield. No. 1,148,752; Aug. 3; Gaz. vol. 217; p. 97.
- Shipping-box. J. P. Hummel. No. 1,148,685; Aug. 3; Gaz. vol. 217; p. 73.
- Shipping-box. W. S. Payne. No. 1,140,765; May 25; Gaz. vol. 214; p. 1176.
- Shipping-box. H. L. Staley and W. B. Simmons. No. 1,162,524; Nov. 30; Gaz. vol. 220; p. 1623.
- Shipping-box. W. C. Willets. No. 1,130,230; Mar. 2; Gaz. vol. 212; p. 135.
- Shipping-can. W. H. Alexander. No. 1,131,650; Mar. 16; Gaz. vol. 212; p. 695.
- Shipping-can. W. E. Perkins. No. 1,162,250; Nov. 30; Gaz. vol. 220; p. 1529.
- Shipping-can. B. P. Saunders. No. 1,155,447; Oct. 5; Gaz. vol. 219; p. 43.
- Shipping-can. L. R. Steel. No. 1,140,414; May 25; Gaz. vol. 214; p. 1055.
- Shipping-can. L. R. Steel. No. 1,148,059; July 27; Gaz. vol. 216; p. 1147.
- Shipping-case. W. C. Binckley. No. 1,129,061; Feb. 23; Gaz. vol. 211; p. 983.
- Shipping-case. W. H. Hammond. No. 1,165,167; Dec. 21; Gaz. vol. 221; p. 937.
- Shipping-case. A. M. Kruse. No. 1,164,364; Dec. 14; Gaz. vol. 221; p. 616.
- Shipping-case. E. B. McHose. No. 1,139,207; May 11; Gaz. vol. 214; p. 561.
- Shipping-case. A. T. Nyberg. No. 1,127,273; Feb. 2; Gaz. vol. 211; p. 214.
- Shipping-case, Combination collapsible. F. M. Fernandez. No. 1,140,972; May 25; Gaz. vol. 214; p. 1252.
- Shipping-case, Folding. T. M. Holloman. No. 1,136,802; Apr. 20; Gaz. vol. 213; p. 1046.
- Shipping case, Ice-cream-can-. S. M. Barnard. No. 1,147,291; July 20; Gaz. vol. 216; p. 849.
- Shipping-case, Metallic. W. A. Dunlap. No. 1,138,643; May 11; Gaz. vol. 214; p. 360.
- Shipping-case, Metallic. W. A. Dunlap. No. 1,138,644; May 11; Gaz. vol. 214; p. 360.
- Shipping case or box, Corrugated-fiber. W. H. Fairchild and E. R. Hankins. No. 1,165,860; Dec. 28; Gaz. vol. 221; p. 1216.
- Shipping-case, Pasteboard. E. T. Allan. No. 1,160,813; Nov. 16; Gaz. vol. 220; p. 933.
- Shipping-case, Safety. H. Leiman. No. 1,124,041; Jan. 5; Gaz. vol. 210; p. 286.
- Shipping-container and board for constructing the same. S. W. Forsman. No. 1,161,818; Nov. 23; Gaz. vol. 220; p. 1330.
- Shipping-jacket. E. Weislowits. No. 1,136,635; Apr. 20; Gaz. vol. 213; p. 986.
- Shipping or storing receptacle, Knockdown metallic. C. M. Bowman. No. 1,147,073; July 20; Gaz. vol. 216; p. 774.
- Shipping-package. M. Lachman. No. 1,138,121; May 4; Gaz. vol. 214; p. 141.
- Shipping-package. W. H. Osborn. No. 1,131,948; Mar. 16; Gaz. vol. 212; p. 803.
- Shipping-package attachment. A. Hitzert. No. 1,139,523; May 18; Gaz. vol. 214; p. 707.
- Shipping-package, Collapsible. D. H. Shapiro. No. 1,141,076; May 25; Gaz. vol. 214; p. 1285.
- Shipping-package for lobsters. F. B. Higgins. No. 1,152,629; Sept. 7; Gaz. vol. 218; p. 92.
- Shipping-receipt holder. J. D. Van Fleet. No. 1,158,338; Oct. 26; Gaz. vol. 219; p. 1171.
- Shipping-receptacle. E. J. Butterfield. No. 1,157,206; Oct. 19; Gaz. vol. 219; p. 712.
- Shipping-receptacle. R. E. Chapman. No. 1,155,212; Sept. 28; Gaz. vol. 218; p. 1094.
- Shipping-receptacle. M. Lachman. No. 1,138,119; May 4; Gaz. vol. 214; p. 141.
- Shipping-receptacle. M. Lachman. No. 1,147,954; July 27; Gaz. vol. 216; p. 1110.
- Shipping-receptacle. C. R. Smith. No. 1,124,669; Jan. 12; Gaz. vol. 210; p. 559.
- Shipping-receptacles, Cover-fastener for. T. J. Crosby. No. 1,161,927; Nov. 30; Gaz. vol. 220; p. 1416.
- Shipping-record. A. Larsson. No. 1,127,365; Feb. 2; Gaz. vol. 211; p. 243.
- Shipping-trays or box-cover fastener, Fastener for. E. Graham, J. Gore, and J. G. Sample. No. 1,144,900; June 29; Gaz. vol. 215; p. 1459.
- Shipping unit. J. W. Terry. No. 1,126,315; Jan. 26; Gaz. vol. 210; p. 1215.
- Shirring-machine presser-foot. R. G. Woodward. No. 1,145,645; July 6; Gaz. vol. 216; p. 234.
- Shirt. A. H. Kimmel. No. 1,140,834; May 25; Gaz. vol. 214; p. 1201.
- Shirt. J. J. Miles and J. A. Williams. No. 1,144,223; June 22; Gaz. vol. 215; p. 1199.
- Shirt. F. J. Mynar and C. P. Zimmerman. No. 1,127,075; Feb. 2; Gaz. vol. 211; p. 144.
- Shirt. G. H. Nicholas. No. 1,164,386; Dec. 14; Gaz. vol. 221; p. 623.
- Shirt. J. K. P. Pine. No. 1,137,081; Apr. 27; Gaz. vol. 213; p. 1183.
- Shirt. E. L. Swikard. No. 1,132,887; Mar. 23; Gaz. vol. 212; p. 1195.
- Shirt. A. S. Weishaar. No. 1,163,730; Dec. 14; Gaz. vol. 221; p. 394.
- Shirt and union suit, Combined. F. E. Szemere. No. 1,152,350; Aug. 31; Gaz. vol. 217; p. 1622.
- Shirt and vest, Combination. C. Marcus. No. 1,128,168; Feb. 9; Gaz. vol. 211; p. 568.
- Shirt, Apparel-. T. L. Rubinstein. No. 1,138,895; May 11; Gaz. vol. 214; p. 451.
- Shirt-boxes, &c., Platform for. E. J. Schoettle. No. 1,155,281; Sept. 28; Gaz. vol. 218; p. 1115.
- Shirt-cuff, Attached. C. M. Walker. No. 1,159,440; Nov. 9; Gaz. vol. 220; p. 391.
- Shirt-folding table. P. F. Whalen and P. J. Burke. No. 1,125,785; Jan. 19; Gaz. vol. 210; p. 993.
- Shirt-front reinforcement. E. H. W. Baden. No. 1,125,440; Jan. 19; Gaz. vol. 210; p. 876.
- Shirt, Open-bosom dress-. H. S. Kennedy and C. M. Connolly. No. 1,141,397; June 1; Gaz. vol. 215; p. 111.
- Shirt, Reinforced. B. Kronthal. No. 1,158,938; Nov. 2; Gaz. vol. 220; p. 185.
- Shirt-waist supporter. E. M. Cunningham. No. 1,127,598; Feb. 9; Gaz. vol. 211; p. 367.

- Shirts, Means for attaching collars and other neckwear to. B. Joachim and B. Davidson. No. 1,139,293; May 11; Gaz. vol. 214; p. 589.
- Shock-absorber. F. C. Adams. No. 1,153,531; Sept. 14; Gaz. vol. 218; p. 453.
- Shock-absorber. C. J. Anderson. No. 1,151,326; Aug. 24; Gaz. vol. 217; p. 1222.
- Shock-absorber. A. Bailey. No. 1,155,700; Oct. 5; Gaz. vol. 219; p. 131.
- Shock-absorber. C. V. Bates. No. 1,154,599; Sept. 28; Gaz. vol. 218; p. 884.
- Shock-absorber. E. W. Baum. No. 1,130,055; Mar. 2; Gaz. vol. 212; p. 74.
- Shock-absorber. A. W. Blanchard. No. 1,125,942; Jan. 26; Gaz. vol. 210; p. 1079.
- Shock-absorber. W. N. Border. No. 1,154,284; Sept. 21; Gaz. vol. 218; p. 748.
- Shock-absorber. C. F. Bradburn. No. 1,141,310; June 1; Gaz. vol. 215; p. 80.
- Shock-absorber. A. O. Brock. No. 1,151,858; Aug. 31; Gaz. vol. 217; p. 1454.
- Shock-absorber. C. T. Brown. No. 1,161,185; Nov. 23; Gaz. vol. 220; p. 1110.
- Shock-absorber. E. Bugatti. No. 1,133,093; Mar. 23; Gaz. vol. 212; p. 1271.
- Shock-absorber. W. J. Casey. No. 1,135,659; Apr. 13; Gaz. vol. 213; p. 603.
- Shock-absorber. A. Christianson. No. 1,153,483; Sept. 14; Gaz. vol. 218; p. 435.
- Shock-absorber. A. Christianson. No. 1,156,665; Oct. 12; Gaz. vol. 219; p. 493.
- Shock-absorber. W. T. Clark. No. 1,140,357; May 25; Gaz. vol. 214; p. 1034.
- Shock-absorber. M. T. Convery. No. 1,160,381; Nov. 16; Gaz. vol. 220; p. 777.
- Shock-absorber. G. E. Cutler and B. L. Monesmith. No. 1,165,573; Dec. 28; Gaz. vol. 221; p. 1115.
- Shock-absorber. G. De Fernanzeno. No. 1,137,123; Apr. 27; Gaz. vol. 213; p. 1199.
- Shock-absorber. L. R. Dudley. No. 1,125,012; Jan. 12; Gaz. vol. 210; p. 681.
- Shock-absorber. W. Evans. No. 1,128,964; Feb. 16; Gaz. vol. 211; p. 895.
- Shock-absorber. G. De Fernanzeno. No. 1,143,753; June 22; Gaz. vol. 215; p. 1032.
- Shock-absorber. G. De Fernanzeno. No. 1,144,530; June 29; Gaz. vol. 215; p. 1331.
- Shock-absorber. A. E. Foster, Jr. No. 1,161,300; Nov. 23; Gaz. vol. 220; p. 1151.
- Shock-absorber. W. H. Frazine. No. 1,153,300; Sept. 14; Gaz. vol. 218; p. 368.
- Shock-absorber. B. K. Hall. No. 1,148,312; July 27; Gaz. vol. 216; p. 1238.
- Shock-absorber. E. V. Hartford. No. 1,124,612; Jan. 12; Gaz. vol. 210; p. 538.
- Shock-absorber. H. F. Harvey. No. 1,158,210; Oct. 26; Gaz. vol. 219; p. 1127.
- Shock-absorber. E. G. Hayne. No. 1,143,906; June 22; Gaz. vol. 215; p. 1085.
- Shock-absorber. J. A. Henry. No. 1,128,977; Feb. 16; Gaz. vol. 211; p. 900.
- Shock-absorber. J. B. Horne. No. 1,123,878; Jan. 5; Gaz. vol. 210; p. 232.
- Shock-absorber. J. W. Jones. No. 1,140,596; May 25; Gaz. vol. 214; p. 1120.
- Shock-absorber. H. B. Keiper. No. 1,127,016; Feb. 2; Gaz. vol. 211; p. 124.
- Shock-absorber. E. H. Kreider. No. 1,155,738; Oct. 5; Gaz. vol. 219; p. 144.
- Shock-absorber. R. M. Lovejoy. No. 1,164,371; Dec. 14; Gaz. vol. 221; p. 618.
- Shock-absorber. W. F. Lyons. No. 1,142,825; June 15; Gaz. vol. 215; p. 684.
- Shock-absorber. A. Magin. No. 1,129,581; Feb. 23; Gaz. vol. 211; p. 1146.
- Shock-absorber. M. E. Malloy. No. 1,135,909; Apr. 13; Gaz. vol. 213; p. 688.
- Shock-absorber. E. E. Malone. No. 1,154,996; Sept. 28; Gaz. vol. 218; p. 1019.
- Shock-absorber. B. C. Manby. No. 1,142,261; June 8; Gaz. vol. 215; p. 450.
- Shock-absorber. G. C. Martin. No. 1,137,997; May 4; Gaz. vol. 214; p. 96.
- Shock-absorber. J. A. McKnight. No. 1,142,044; June 8; Gaz. vol. 215; p. 373.
- Shock-absorber. L. L. Miles and M. C. Fullenlove. No. 1,159,697; Nov. 9; Gaz. vol. 220; p. 482.
- Shock-absorber. E. V. Myers. No. 1,160,976; Nov. 16; Gaz. vol. 220; p. 990.
- Shock-absorber. F. S. Nelson. No. 1,123,916; Jan. 5; Gaz. vol. 210; p. 245.
- Shock-absorber. J. F. O'Connor. No. 1,135,607; Apr. 13; Gaz. vol. 213; p. 583.
- Shock-absorber. R. F. Olejnik. No. 1,128,179; Feb. 9; Gaz. vol. 211; p. 572.
- Shock-absorber. C. H. Peters. No. 1,149,943; Aug. 10; Gaz. vol. 217; p. 625.
- Shock-absorber. C. A. Petersen. No. 1,135,391; Apr. 13; Gaz. vol. 213; p. 506.
- Shock-absorber. F. V. Phillips. No. 1,134,223; Apr. 6; Gaz. vol. 213; p. 51.
- Shock-absorber. F. V. Phillips. No. 1,134,224; Apr. 6; Gaz. vol. 213; p. 52.
- Shock-absorber. C. F. Pihlblad. No. 1,123,794; Jan. 5; Gaz. vol. 210; p. 204.
- Shock-absorber. C. W. Price. No. 1,141,264; June 1; Gaz. vol. 215; p. 62.
- Shock-absorber. F. L. Reynolds. No. 1,135,923; Apr. 13; Gaz. vol. 213; p. 692.
- Shock-absorber. F. T. Roberts. No. 1,159,799; Nov. 9; Gaz. vol. 220; p. 521.
- Shock-absorber. J. G. Rock. No. 1,143,068; June 15; Gaz. vol. 215; p. 771.
- Shock-absorber. J. G. Rock. No. 1,143,069; June 15; Gaz. vol. 215; p. 772.
- Shock-absorber. J. G. Rock. No. 1,143,070; June 15; Gaz. vol. 215; p. 772.
- Shock-absorber. P. L. Rookledge. No. 1,124,956; Jan. 12; Gaz. vol. 210; p. 660.
- Shock-absorber. W. T. Sears. No. 1,123,404; Jan. 5; Gaz. vol. 210; p. 71.
- Shock-absorber. W. T. Sears. No. 1,147,272; July 20; Gaz. vol. 216; p. 843.
- Shock-absorber. H. T. Smith. No. 1,156,376; Oct. 12; Gaz. vol. 219; p. 391.
- Shock-absorber. W. G. Smith. No. 1,151,909; Aug. 31; Gaz. vol. 217; p. 1471.
- Shock-absorber. W. B. Thomas. No. 1,165,039; Dec. 21; Gaz. vol. 221; p. 891.
- Shock-absorber. M. A. Thomsen. No. 1,129,819; Feb. 23; Gaz. vol. 211; p. 1224.
- Shock-absorber. R. R. Walker. No. 1,150,564; Aug. 17; Gaz. vol. 217; p. 906.
- Shock-absorber. R. R. Walker. No. 1,156,646; Oct. 12; Gaz. vol. 219; p. 486.
- Shock-absorber. W. T. Walker. No. 1,135,084; Apr. 13; Gaz. vol. 213; p. 402.
- Shock-absorber. J. J. Wescott. No. 1,147,059; July 20; Gaz. vol. 216; p. 770.
- Shock-absorber. E. L. Williams and E. Jones. No. 1,155,182; Sept. 28; Gaz. vol. 218; p. 1085.
- Shock-absorber. J. Willners. No. 1,161,431; Nov. 23; Gaz. vol. 220; p. 1198.
- Shock-absorber. T. L. Witkop. No. 1,145,732; July 6; Gaz. vol. 216; p. 266.
- Shock-absorber. A. H. Worrest. No. 1,142,925; June 15; Gaz. vol. 215; p. 720.
- Shock-absorber and recoil-check. D. F. Oliver. No. 1,151,036; Aug. 24; Gaz. vol. 217; p. 1125.
- Shock-absorber and safety attachment for percussion-operated tools. G. Cook. No. 1,142,238; June 8; Gaz. vol. 215; p. 442.
- Shock-absorber and supplementary spring. J. A. Mauck. No. 1,142,599; June 8; Gaz. vol. 215; p. 569.
- Shock-absorber, Automatic. J. W. Holt. No. 1,123,744; Jan. 5; Gaz. vol. 210; p. 187.
- Shock-absorber, Automobile. A. H. Fox. No. 1,151,350; Aug. 24; Gaz. vol. 217; p. 1230.
- Shock-absorber, Automobile. S. Furmidge. No. 1,153,402; Oct. 26; Gaz. vol. 219; p. 1195.
- Shock-absorber, Automobile. W. A. Johnson. No. 1,136,469; Apr. 20; Gaz. vol. 213; p. 929.
- Shock-absorber, Automobile. C. L. Thomas. No. 1,153,876; Sept. 14; Gaz. vol. 218; p. 574.
- Shock-absorber for aeroplane-landing. J. Kuhajda. No. 1,161,391; Nov. 23; Gaz. vol. 220; p. 1184.
- Shock-absorber for automobiles. J. C. Leahan. No. 1,157,165; Oct. 19; Gaz. vol. 219; p. 698.
- Shock-absorber for motor-cycle seats, &c. J. G. Epley. No. 1,150,259; Aug. 17; Gaz. vol. 217; p. 800.
- Shock-absorber for motor-vehicles. F. H. Pettitmaire. No. 1,146,901; July 20; Gaz. vol. 216; p. 713.
- Shock-absorber for riding-tools. T. G. Walker. No. 1,165,301; Dec. 21; Gaz. vol. 221; p. 982.
- Shock-absorber for shipping and storing receptacles. F. Margraves. No. 1,147,628; July 20; Gaz. vol. 216; p. 969.
- Shock-absorber for the handle-bars of motor-cycles. J. P. MacLean. No. 1,156,420; Oct. 12; Gaz. vol. 219; p. 407.
- Shock-absorber for vehicle-tongues, Adjustable. F. W. Rieke. No. 1,143,783; June 22; Gaz. vol. 215; p. 1043.
- Shock-absorber for vehicles. T. A. Bell. No. 1,157,494; Oct. 19; Gaz. vol. 219; p. 814.
- Shock-absorber for vehicles. F. V. Phillips. No. 1,140,478; May 25; Gaz. vol. 214; p. 1079.
- Shock-absorber hanger. E. Plentje. No. 1,137,598; Apr. 27; Gaz. vol. 213; p. 1366.
- Shock-absorber, Pneumatic. W. G. Wood. No. 1,161,102; Nov. 23; Gaz. vol. 220; p. 1078.
- Shock-absorber, Radiator. G. A. Lindstrom. No. 1,163,425; Dec. 7; Gaz. vol. 221; p. 242.
- Shock-absorber, Telescoping. F. H. Pettitmaire. No. 1,158,273; Oct. 26; Gaz. vol. 219; p. 1149.
- Shock-absorber, Vehicle. A. Semmig. No. 1,138,017; May 4; Gaz. vol. 214; p. 102.
- Shock-absorbing and rebound spring for automobiles and other vehicles, Variable-tension. F. N. Sprague. No. 1,125,199; Jan. 19; Gaz. vol. 210; p. 783.
- Shock-absorbing device. G. E. Cutler and B. L. Monesmith. No. 1,166,354; Dec. 28; Gaz. vol. 221; p. 1394.
- Shock-absorbing device. C. H. Foster. No. 1,130,724; Mar. 9; Gaz. vol. 212; p. 342.

Alphabetical list of inventions—Continued.

- Shock-absorbing device. R. Herman. No. 1,155,568; Oct. 5; Gaz. vol. 219; p. 84.
- Shock-absorbing device. J. B. O'Donnell. No. 1,154,267; Sept. 21; Gaz. vol. 218; p. 741.
- Shock-absorbing device, Friction. T. J. H. Eggenstein. No. 1,160,153; Nov. 16; Gaz. vol. 220; p. 699.
- Shock-absorbing wheel. E. Clement. No. 1,139,164; May 11; Gaz. vol. 214; p. 546.
- Shock and bundle loader. E. Kirk. No. 1,150,206; Aug. 17; Gaz. vol. 217; p. 781.
- Shock-loader. E. Pitcher. No. 1,136,264; Apr. 20; Gaz. vol. 213; p. 855.
- Shock-recording device. H. B. MacFarland. No. 1,125,145; Jan. 19; Gaz. vol. 210; p. 762.
- Shocks on vehicle-wheels, Means for absorbing road. H. House. No. 1,128,140; Feb. 9; Gaz. vol. 211; p. 558.
- Shocker, Self. R. Setzer. No. 1,150,070; Aug. 17; Gaz. vol. 217; p. 730.
- Shocker, Shear. W. H. Perrin. No. 1,135,715; Apr. 13; Gaz. vol. 213; p. 622.
- Shocking-machine. P. and W. Cota. No. 1,130,799; Mar. 9; Gaz. vol. 212; p. 368.
- Shocking-machine. G. Johnson. No. 1,130,737; Mar. 9; Gaz. vol. 212; p. 347.
- Shocking-machine. L. A. Williams. No. 1,126,604; Jan. 26; Gaz. vol. 210; p. 1321.
- Shoe. S. Azzara. No. 1,151,850; Aug. 31; Gaz. vol. 217; p. 1450.
- Shoe. F. W. Beard. No. 1,127,850; Feb. 9; Gaz. vol. 211; p. 457.
- Shoe. M. Brock. No. 1,141,914; June 1; Gaz. vol. 215; p. 291.
- Shoe. O. C. Davis. No. 1,129,649; Feb. 23; Gaz. vol. 211; p. 1169.
- Shoe. F. G. Delbon. No. 1,161,930; Nov. 30; Gaz. vol. 220; p. 1417.
- Shoe. C. L. K. Ferguson. No. 1,147,493; July 20; Gaz. vol. 216; p. 922.
- Shoe. E. A. Fleming. No. 1,150,182; Aug. 17; Gaz. vol. 217; p. 772.
- Shoe. A. Frazer. No. 1,134,189; Apr. 6; Gaz. vol. 213; p. 38.
- Shoe. E. D. Gallagher. No. 1,152,939; Sept. 7; Gaz. vol. 218; p. 206.
- Shoe. G. H. Gardiner. No. 1,163,522; Dec. 7; Gaz. vol. 221; p. 275.
- Shoe. G. H. Gardiner. No. 1,163,523; Dec. 7; Gaz. vol. 221; p. 276.
- Shoe. G. H. Gardiner. No. 1,163,524; Dec. 7; Gaz. vol. 221; p. 276.
- Shoe. F. Gustaveson. No. 1,138,557; May 4; Gaz. vol. 214; p. 292.
- Shoe. N. H. Hassel. No. 1,126,458; Jan. 26; Gaz. vol. 210; p. 1266.
- Shoe. W. C. H. P. and F. A. Hedgecock. No. 1,138,473; May 4; Gaz. vol. 214; p. 265.
- Shoe. H. Jaedike. No. 1,132,096; Mar. 16; Gaz. vol. 212; p. 856.
- Shoe. M. Lanzaro. No. 1,144,768; June 29; Gaz. vol. 215; p. 1414.
- Shoe. B. B. Loewenbach and C. M. Hunter. No. 1,130,305; Mar. 2; Gaz. vol. 212; p. 161.
- Shoe. C. Maetrich. No. 1,145,913; July 13; Gaz. vol. 216; p. 348.
- Shoe. J. McBrearty. No. 1,148,604; Aug. 3; Gaz. vol. 217; p. 44.
- Shoe. T. W. Meredith. No. 1,158,526; Nov. 2; Gaz. vol. 220; p. 41.
- Shoe. K. J. Percy. No. 1,141,911; June 1; Gaz. vol. 215; p. 290.
- Shoe. G. H. Ricke. No. 1,137,423; Apr. 27; Gaz. vol. 213; p. 1309.
- Shoe. G. H. Ricke. No. 1,159,330; Nov. 2; Gaz. vol. 220; p. 320.
- Shoe. A. L. Russell. No. 1,124,959; Jan. 12; Gaz. vol. 210; p. 662.
- Shoe. S. Tadakuma. No. 1,139,598; May 18; Gaz. vol. 214; p. 733.
- Shoe. E. O. Teague. No. 1,138,425; May 4; Gaz. vol. 214; p. 248.
- Shoe. G. Valiant. No. 1,128,391; Feb. 16; Gaz. vol. 211; p. 693.
- Shoe and legging, Combined. T. A. Flannigan. No. 1,154,109; Sept. 21; Gaz. vol. 218; p. 688.
- Shoe and legging, Combined. H. S. Hale. No. 1,165,874; Dec. 28; Gaz. vol. 221; p. 1222.
- Shoe and the like. J. Kiewicz. No. 1,151,365; Aug. 24; Gaz. vol. 217; p. 1235.
- Shoe-arch. W. Dunbar. No. 1,137,387; Apr. 27; Gaz. vol. 213; p. 1295.
- Shoe arch-support. P. Broadbooks and L. E. Smith. No. 1,152,284; Aug. 31; Gaz. vol. 217; p. 1599.
- Shoe, Arch-supporting. J. F. Teehan. No. 1,137,807; May 4; Gaz. vol. 214; p. 30.
- Shoe, Arch-supporting. J. F. Teehan. No. 1,144,740; June 29; Gaz. vol. 215; p. 1405.
- Shoe arch-supporting shank. F. L. Mason and H. G. Bendix. No. 1,147,526; July 20; Gaz. vol. 216; p. 933.
- Shoe-blank, Stiffened. H. H. Beckwith. No. 1,124,835; Jan. 12; Gaz. vol. 210; p. 618.
- Shoe-bottom filler. A. Thoma. No. 1,134,931; Apr. 6; Gaz. vol. 213; p. 302.
- Shoe-bottom filler. A. Thoma. No. 1,137,679; Apr. 27; Gaz. vol. 213; p. 1392.
- Shoe-bottom filler. A. Thoma. No. 1,138,910; May 11; Gaz. vol. 214; p. 456.
- Shoe-bottom filler and making the same, Plastic. A. Thoma. No. 1,136,980; Apr. 27; Gaz. vol. 213; p. 1145.
- Shoe-box-marking device. G. V. Wells. No. 1,134,789; Apr. 6; Gaz. vol. 213; p. 258.
- Shoe-breaking-in machine. H. M. Klingensfeld and A. H. Inbusch. No. 1,140,599; May 25; Gaz. vol. 214; p. 1121.
- Shoe, Burlal. J. G. Bixby. No. 1,165,060; Dec. 21; Gaz. vol. 221; p. 898.
- Shoe, Canvas. S. Frankenburg and F. H. Betteridge. No. 1,160,873; Nov. 16; Gaz. vol. 220; p. 953.
- Shoe-clamp for boot-black stands. M. M. Kandle. No. 1,124,229; Jan. 5; Gaz. vol. 210; p. 353.
- Shoe-clasp. M. Kozlowski. No. 1,143,837; June 22; Gaz. vol. 215; p. 1062.
- Shoe-cleaner. W. G. Callender. No. 1,156,751; Oct. 12; Gaz. vol. 219; p. 522.
- Shoe-cleaner. P. H. Higley. No. 1,136,528; Apr. 20; Gaz. vol. 213; p. 949.
- Shoe-cleaning device. O. J. McGann. No. 1,138,232; May 4; Gaz. vol. 214; p. 178.
- Shoe-cleaning device. F. J. Perron. No. 1,124,650; Jan. 12; Gaz. vol. 210; p. 553.
- Shoe-cleaning guard. J. D. Swanton. No. 1,126,314; Jan. 26; Gaz. vol. 210; p. 1215.
- Shoe-cleaning machine. L. Elekes. No. 1,128,767; Feb. 16; Gaz. vol. 211; p. 823.
- Shoe construction. A. H. Buttles. No. 1,130,014; May 11; Gaz. vol. 214; p. 494.
- Shoe construction. J. Demian. No. 1,151,866; Aug. 31; Gaz. vol. 217; p. 1456.
- Shoe-counter, Metallic. B. F. McCoy. (Reissue.) No. 1,391,2; May 4; Gaz. vol. 214; p. 313.
- Shoe-counter, Metallic. B. F. McCoy. No. 1,143,294; June 15; Gaz. vol. 215; p. 851.
- Shoe, Dancing. D. McCormick. No. 1,152,115; Aug. 31; Gaz. vol. 217; p. 1541.
- Shoe-dummy. V. W. Smith. No. 1,160,541; Nov. 16; Gaz. vol. 220; p. 834.
- Shoe-elongator. M. Goldstone. No. 1,141,792; June 1; Gaz. vol. 215; p. 248.
- Shoe, Emergency. F. E. Riviere. No. 1,154,809; Sept. 28; Gaz. vol. 218; p. 955.
- Shoe-fastener. F. C. Freeburg. No. 1,166,344; Dec. 28; Gaz. vol. 221; p. 1390.
- Shoe-fastener. J. H. Mays. No. 1,149,073; Aug. 3; Gaz. vol. 217; p. 208.
- Shoe-fastener. F. V. Tremblay. No. 1,155,973; Oct. 5; Gaz. vol. 219; p. 225.
- Shoe-fastening. F. Dassori. No. 1,124,868; Jan. 12; Gaz. vol. 210; p. 631.
- Shoe-fastening. O. H. Hansen. No. 1,131,509; Mar. 9; Gaz. vol. 212; p. 613.
- Shoe-fastening device. T. F. Horrigan. No. 1,142,812; June 15; Gaz. vol. 215; p. 681.
- Shoe-fastening device. F. Stryffeler. No. 1,162,663; Nov. 30; Gaz. vol. 220; p. 1666.
- Shoe-filler. H. Snell. No. 1,153,139; Sept. 7; Gaz. vol. 218; p. 272.
- Shoe-filler. A. Thoma. No. 1,138,909; May 11; Gaz. vol. 214; p. 456.
- Shoe-filler. F. E. Woodward. No. 1,136,456; Apr. 20; Gaz. vol. 213; p. 924.
- Shoe-filler. F. E. Woodward. No. 1,136,457; Apr. 20; Gaz. vol. 213; p. 924.
- Shoe-filler. F. E. Woodward. No. 1,136,458; Apr. 20; Gaz. vol. 213; p. 924.
- Shoe-filler. F. E. Woodward. No. 1,136,459; Apr. 20; Gaz. vol. 213; p. 924.
- Shoe, Flexible. G. L. Pierce. No. 1,161,332; Nov. 23; Gaz. vol. 220; p. 1162.
- Shoe, Flexible. G. L. Pierce and A. K. Petterson. No. 1,163,848; Dec. 14; Gaz. vol. 221; p. 436.
- Shoe-fly, Reinforced. B. Mendelson. No. 1,145,784; July 6; Gaz. vol. 216; p. 283.
- Shoe-form. C. H. Holmes. No. 1,137,141; Apr. 27; Gaz. vol. 213; p. 1204.
- Shoe-form. A. G. Legge. No. 1,130,302; Mar. 2; Gaz. vol. 212; p. 160.
- Shoe-form. W. S. Lougee. No. 1,128,160; Feb. 9; Gaz. vol. 211; p. 565.
- Shoe-form. G. T. Williams, H. S. Foster, and N. C. Wilkinson. No. 1,133,077; Mar. 23; Gaz. vol. 212; p. 1265.
- Shoe-form, Hollow. S. M. Niles. No. 1,156,429; Oct. 12; Gaz. vol. 219; p. 409.
- Shoe-forms, Making. W. L. C. Niles. No. 1,127,080; Feb. 2; Gaz. vol. 211; p. 146.
- Shoe heating and vulcanizing apparatus. T. F. Whelan. No. 1,157,477; Oct. 19; Gaz. vol. 219; p. 809.
- Shoe-holder. B. S. Robertson and W. M. White. No. 1,163,038; Dec. 7; Gaz. vol. 221; p. 106.
- Shoe-holding jack. F. B. Keall. No. 1,153,928; Sept. 21; Gaz. vol. 218; p. 625.
- Shoe-book. J. K. Champ. No. 1,159,648; Nov. 9; Gaz. vol. 220; p. 465.
- Shoe-horn. C. B. Fox. No. 1,163,399; Dec. 7; Gaz. vol. 221; p. 233.

- Shoe-horn and button-hook, Combination. C. E. Woomert. No. 1,125,429; Jan. 19; Gaz. vol. 210; p. 866.
- Shoe-horn and button-hook, Combined. C. Rosine. No. 1,130,198; Mar. 2; Gaz. vol. 212; p. 124.
- Shoe-horn and button-hook, Combined. R. Topham. No. 1,150,403; Aug. 17; Gaz. vol. 217; p. 849.
- Shoe-innersole. W. J. MacFarland. No. 1,128,994; Feb. 16; Gaz. vol. 211; p. 905.
- Shoe insertion. R. Lack. No. 1,134,389; Apr. 6; Gaz. vol. 213; p. 111.
- Shoe-insole. T. F. Rooney. No. 1,140,918; May 25; Gaz. vol. 214; p. 1233.
- Shoe-ironing machine. J. S. Hansen. No. 1,134,264; Apr. 6; Gaz. vol. 213; p. 67.
- Shoe-jack. P. Becker. No. 1,149,327; Aug. 10; Gaz. vol. 217; p. 403.
- Shoe-jack. C. Pfeiffer. No. 1,127,920; Feb. 9; Gaz. vol. 211; p. 481.
- Shoe-lining. P. Lagodimos. No. 1,164,533; Dec. 14; Gaz. vol. 221; p. 675.
- Shoe-linings, Machine for trimming. K. Engel. No. 1,148,762; Aug. 3; Gaz. vol. 217; p. 101.
- Shoe, Low-cut. C. L. Whitcomb. No. 1,138,164; May 4; Gaz. vol. 214; p. 156.
- Shoe-machine. E. A. Stiggins. No. 1,131,746; Mar. 16; Gaz. vol. 212; p. 729.
- Shoe-machine, Automatic. E. E. Winkley. No. 1,129,373; Feb. 23; Gaz. vol. 211; p. 1073.
- Shoe machinery, Work-support for. J. Gouldbourn and R. B. Woodcock. No. 1,147,162; July 20; Gaz. vol. 216; p. 805.
- Shoe-making machine. S. Strauss. No. 1,131,873; Mar. 16; Gaz. vol. 212; p. 777.
- Shoe-measuring device. E. H. Dunbar. No. 1,161,765; Nov. 23; Gaz. vol. 220; p. 1312.
- Shoe, Miner's. J. T. Crowley. No. 1,155,644; Oct. 5; Gaz. vol. 219; p. 111.
- Shoe-nailing machine. E. Hönicle. No. 1,127,891; Feb. 9; Gaz. vol. 211; p. 472.
- Shoe-nailing machines, Nail-feed for. J. Crowe. No. 1,123,252; Jan. 5; Gaz. vol. 210; p. 17.
- Shoe, Non-slipping. A. F. Durgin. No. 1,123,503; Jan. 5; Gaz. vol. 210; p. 105.
- Shoe or slipper, Bathing. G. L. Pierce. No. 1,150,702; Aug. 17; Gaz. vol. 217; p. 952.
- Shoe-ornament fastener. C. S. Clinch. No. 1,145,121; July 6; Gaz. vol. 216; p. 52.
- Shoe-polisher. R. D. Balthazar. No. 1,135,871; Apr. 13; Gaz. vol. 213; p. 676.
- Shoe-polisher. C. D. Watkins. No. 1,129,257; Feb. 23; Gaz. vol. 211; p. 1032.
- Shoe-polisher and dauber, Combined. E. E. Curtiss. No. 1,166,330; Dec. 28; Gaz. vol. 221; p. 1386.
- Shoe-polishing chairs, Curtain for. W. W. Searcy. No. 1,147,449; July 20; Gaz. vol. 216; p. 907.
- Shoe-polishing device. F. De Barbado. No. 1,142,679; June 8; Gaz. vol. 215; p. 595.
- Shoe-polishing device. D. F. Fradette. No. 1,154,181; Sept. 21; Gaz. vol. 218; p. 712.
- Shoe-polishing device. F. E. Nelson. No. 1,151,034; Aug. 24; Gaz. vol. 217; p. 1125.
- Shoe-polishing device. C. Rosen. No. 1,156,435; Oct. 12; Gaz. vol. 219; p. 412.
- Shoe-polishing machine. E. Jones. No. 1,139,531; May 18; Gaz. vol. 214; p. 709.
- Shoe-polishing machine. L. Maire. No. 1,161,145; Nov. 23; Gaz. vol. 220; p. 1094.
- Shoe-polishing machine. H. R. Oliver and G. P. Ohlgart. No. 1,131,613; Mar. 9; Gaz. vol. 212; p. 648.
- Shoe-polishing machine. J. C. C. Scheer. No. 1,137,292; Apr. 27; Gaz. vol. 213; p. 1261.
- Shoe-polishing machine, Mechanical. J. E. Birdsall. No. 1,136,647; Apr. 20; Gaz. vol. 213; p. 990.
- Shoe-polishing outfit. E. W. Leshner. No. 1,129,580; Feb. 23; Gaz. vol. 211; p. 1145.
- Shoe-protector. J. H. Bloch. No. 1,124,842; Jan. 12; Gaz. vol. 210; p. 621.
- Shoe-protector. J. B. Carr. No. 1,132,159; Mar. 16; Gaz. vol. 212; p. 880.
- Shoe-puller. C. F. Thomas. No. 1,139,144; May 11; Gaz. vol. 214; p. 540.
- Shoe receptacle and protector. J. B. Mitchell. No. 1,132,280; Mar. 16; Gaz. vol. 212; p. 926.
- Shoe-repairing jack. J. H. Clemmer. No. 1,132,072; Mar. 16; Gaz. vol. 212; p. 849.
- Shoe, Rubber-soled. A. J. B. Faure. No. 1,125,993; Jan. 26; Gaz. vol. 210; p. 1098.
- Shoe-rubbing device. C. D. Watkins. No. 1,127,131; Feb. 2; Gaz. vol. 211; p. 165.
- Shoe-shank. H. G. Calef. No. 1,154,690; Sept. 28; Gaz. vol. 218; p. 916.
- Shoe-shanks, Machine for cutting in. L. A. Jones. No. 1,161,052; Nov. 23; Gaz. vol. 220; p. 1061.
- Shoe-shanks, Machine for fastening metal stiffeners to. B. B. Waterman. No. 1,140,423; May 25; Gaz. vol. 214; p. 1058.
- Shoe-shaping machine. P. J. Wentworth. No. 1,157,741; Oct. 26; Gaz. vol. 219; p. 963.
- Shoe-shining kit. F. J. Stolle. No. 1,144,568; June 29; Gaz. vol. 215; p. 1344.
- Shoe-shining machine. A. H. R. Heller. No. 1,138,868; May 11; Gaz. vol. 214; p. 442.
- Shoe-shining machine. F. V. Murphy. No. 1,128,984; Feb. 16; Gaz. vol. 211; p. 869.
- Shoe-shining machine. W. M. Reason. No. 1,147,816; July 27; Gaz. vol. 216; p. 1060.
- Shoe-shining machine. S. F. Woodsmall. No. 1,142,924; June 15; Gaz. vol. 215; p. 720.
- Shoe-shining stand. C. W. Morris. No. 1,127,071; Feb. 2; Gaz. vol. 211; p. 144.
- Shoe-shining stand. W. H. Ramsey. No. 1,124,520; Jan. 12; Gaz. vol. 210; p. 505.
- Shoe, Snow-. G. S. Sprague. No. 1,154,347; Sept. 21; Gaz. vol. 218; p. 770.
- Shoe, Soft-soled. G. W. Chesbrough. No. 1,123,245; Jan. 5; Gaz. vol. 210; p. 15.
- Shoe spike, Athletic. G. Coleman. No. 1,149,186; Aug. 10; Gaz. vol. 217; p. 351.
- Shoe-strap pack. E. A. Stiggins. No. 1,127,542; Feb. 9; Gaz. vol. 211; p. 348.
- Shoe-stretcher. W. H. Harbke. No. 1,157,982; Oct. 26; Gaz. vol. 219; p. 1047.
- Shoe-stretcher. F. Johnson. No. 1,165,605; Dec. 28; Gaz. vol. 221; p. 1128.
- Shoe structure. E. E. Anderson. No. 1,162,011; Nov. 30; Gaz. vol. 220; p. 1446.
- Shoe-support. W. A. Bond. No. 1,161,832; Nov. 30; Gaz. vol. 220; p. 1382.
- Shoe-support. R. F. McFeely. No. 1,123,775; Jan. 5; Gaz. vol. 210; p. 198.
- Shoe-support. T. G. Plant. No. 1,166,253; Dec. 28; Gaz. vol. 221; p. 1359.
- Shoe-supporter. M. Osaki. No. 1,155,506; Oct. 5; Gaz. vol. 219; p. 65.
- Shoe-supporting jack. H. A. Davenport. No. 1,162,683; Nov. 30; Gaz. vol. 220; p. 1673.
- Shoe-supporting jack. A. Eppler. No. 1,145,981; July 13; Gaz. vol. 216; p. 371.
- Shoe, Tennis-. N. E. Touseley and C. H. Roper. (Reissue.) No. 13,993; Oct. 12; Gaz. vol. 219; p. 566.
- Shoe-toe heater. A. Barton. No. 1,155,196; Sept. 28; Gaz. vol. 218; p. 1090.
- Shoe-tongue. D. Y. Hallock. No. 1,155,354; Oct. 5; Gaz. vol. 219; p. 11.
- Shoe-tongue fastener. A. G. Westlake. No. 1,129,149; Feb. 23; Gaz. vol. 211; p. 995.
- Shoe-tongue retainer. H. M. Thayer. No. 1,163,573; Dec. 7; Gaz. vol. 221; p. 293.
- Shoe-tread. H. M. Hansen. No. 1,127,990; Feb. 9; Gaz. vol. 211; p. 505.
- Shoe-tree. W. A. and A. E. Kilrain. No. 1,149,370; Aug. 10; Gaz. vol. 217; p. 419.
- Shoe-tree. W. F. McClellan. No. 1,142,595; June 8; Gaz. vol. 215; p. 567.
- Shoe-tree. R. Murray. No. 1,163,947; Dec. 14; Gaz. vol. 221; p. 470.
- Shoe-tree, Adjustable. W. A. and A. E. Kilrain. No. 1,146,941; July 20; Gaz. vol. 216; p. 728.
- Shoe-tree, Pneumatic. E. H. Magnus. No. 1,160,631; Nov. 16; Gaz. vol. 220; p. 868.
- Shoe, Turned. F. Riley. No. 1,158,853; Nov. 2; Gaz. vol. 220; p. 157.
- Shoe turning and relasting machine. E. I. La Chapelle. No. 1,132,479; Mar. 16; Gaz. vol. 212; p. 997.
- Shoe-turning machine. G. B. Gardner. No. 1,140,454; May 25; Gaz. vol. 214; p. 1069.
- Shoe-upper. M. Lippiello. No. 1,127,037; Feb. 2; Gaz. vol. 211; p. 133.
- Shoe-upper clamping and holding means. S. I. Derr. No. 1,166,335; Dec. 28; Gaz. vol. 221; p. 1387.
- Shoe-upper fastener. K. Engel. No. 1,150,854; Aug. 24; Gaz. vol. 217; p. 1064.
- Shoe-upper-making machine. W. C. Wright. No. 1,125,624; Jan. 19; Gaz. vol. 210; p. 933.
- Shoe-uppers, Apparatus for softening parts of assembled unlasted. A. Anderson. No. 1,132,645; Mar. 23; Gaz. vol. 212; p. 1107.
- Shoe-uppers, Button and buttonhole marker for. J. W. Barna. No. 1,132,507; Mar. 16; Gaz. vol. 212; p. 1008.
- Shoe-uppers, Machine for forming outturned. W. J. Young. No. 1,165,482; Dec. 28; Gaz. vol. 221; p. 1084.
- Shoe-uppers, Making. K. Engel. No. 1,139,653; May 18; Gaz. vol. 214; p. 753.
- Shoe-uppers, Making. K. Engel. No. 1,142,155; June 8; Gaz. vol. 215; p. 412.
- Shoe-uppers, Stretching. C. F. Bennion. No. 1,123,663; Jan. 5; Gaz. vol. 210; p. 159.
- Shoe, Waterproof. S. J. Harris. No. 1,136,790; Apr. 20; Gaz. vol. 213; p. 1045.
- Shoe, Waterproof. C. M. Lenker. No. 1,136,819; Apr. 20; Gaz. vol. 213; p. 1052.
- Shoe, Welt-. F. W. Merrick. No. 1,137,270; Apr. 27; Gaz. vol. 213; p. 1252.
- Shoes, Antislipping device for. C. W. Sauer, Jr. No. 1,154,890; Sept. 28; Gaz. vol. 218; p. 982.
- Shoes, Apparatus for moistening toe-pieces of. C. A. and K. E. Carlson. No. 1,130,374; Mar. 2; Gaz. vol. 212; p. 185.
- Shoes, Apparatus for treating. T. F. Whelan. No. 1,157,483; Oct. 19; Gaz. vol. 219; p. 811.
- Shoes, Apparatus for treating unfinished. T. F. Whelan. No. 1,157,479; Oct. 19; Gaz. vol. 219; p. 809.
- Shoes, Arch-support for. J. P. Anderson. No. 1,134,804; Apr. 6; Gaz. vol. 213; p. 263.

Alphabetical list of inventions—Continued.

- Shoes, Box-toe piece for. W. A. Knipe. No. 1,127,641; Feb. 9; Gaz. vol. 211; p. 380.
- Shoes, Buttonhole-fly for. H. F. Bubier. No. 1,158,368; Oct. 26; Gaz. vol. 219; p. 1182.
- Shoes, Cushion device for. J. A. Murena. No. 1,127,913; Feb. 9; Gaz. vol. 211; p. 479.
- Shoes, Device for forming box-toes on. A. J. Buch. No. 1,157,481; Oct. 19; Gaz. vol. 219; p. 810.
- Shoes, Device for treating. T. F. Whelan. No. 1,157,482; Oct. 19; Gaz. vol. 219; p. 811.
- Shoes, Drying. T. F. Whelan. No. 1,157,478; Oct. 19; Gaz. vol. 219; p. 809.
- Shoes, Instep and ankle support for. S. E. Johnston. No. 1,142,713; June 8; Gaz. vol. 215; p. 606.
- Shoes, Instep-supporting means for. C. M. Leonard. No. 1,126,038; Jan. 26; Gaz. vol. 210; p. 1113.
- Shoes, Lasting. J. J. Gillespie. No. 1,150,820; Aug. 17; Gaz. vol. 217; p. 992.
- Shoes, Machine for operating on. E. I. La Chapelle. No. 1,140,467; May 25; Gaz. vol. 214; p. 1075.
- Shoes, Machine for operating upon. E. Brothers. No. 1,146,304; July 13; Gaz. vol. 216; p. 484.
- Shoes, Machine for use in the manufacture of welt-. W. Fowler. No. 1,136,222; Apr. 20; Gaz. vol. 213; p. 839.
- Shoes, Making. E. Brothers. No. 1,135,946; Apr. 13; Gaz. vol. 213; p. 701.
- Shoes, Making. J. Cavanagh. No. 1,163,596; Dec. 7; Gaz. vol. 221; p. 301.
- Shoes, Making. K. Engel. No. 1,142,556; June 8; Gaz. vol. 215; p. 554.
- Shoes, Making. H. Erbach and J. J. Saxe. No. 1,160,867; Nov. 16; Gaz. vol. 220; p. 951.
- Shoes, Making. E. A. Fleming. No. 1,150,181; Aug. 17; Gaz. vol. 217; p. 772.
- Shoes, Making. J. B. Hadaway. No. 1,160,164; Nov. 16; Gaz. vol. 220; p. 703.
- Shoes, Making. J. A. Kelly. No. 1,128,608; Feb. 16; Gaz. vol. 211; p. 769.
- Shoes, Making. E. L. Keyes. No. 1,143,972; June 22; Gaz. vol. 215; p. 1108.
- Shoes, Making. R. F. McFeely. No. 1,135,951; Apr. 13; Gaz. vol. 213; p. 703.
- Shoes, Making. R. F. McFeely. No. 1,135,953; Apr. 13; Gaz. vol. 213; p. 704.
- Shoes, Making. A. H. Prenzel. No. 1,131,415; Mar. 9; Gaz. vol. 212; p. 580.
- Shoes, Making. A. H. Prenzel. No. 1,131,732; Mar. 16; Gaz. vol. 212; p. 724.
- Shoes, Making. A. H. Prenzel. No. 1,147,187; July 20; Gaz. vol. 216; p. 813.
- Shoes, Making. A. H. Prenzel. No. 1,159,083; Nov. 2; Gaz. vol. 220; p. 232.
- Shoes, Making. E. O. Teague. No. 1,138,426; May 4; Gaz. vol. 214; p. 248.
- Shoes, Making. J. S. Thomas. No. 1,130,859; Mar. 9; Gaz. vol. 212; p. 388.
- Shoes, Making stitch-down. A. H. Prenzel. No. 1,159,084; Nov. 2; Gaz. vol. 220; p. 233.
- Shoes, Making stitch-down. W. A. Vosper. No. 1,146,825; July 20; Gaz. vol. 216; p. 687.
- Shoes, Making turn-. P. J. Wentworth. No. 1,142,741; June 8; Gaz. vol. 215; p. 613.
- Shoes, Manufacture of. W. Menge, Jr. No. 1,142,265; June 8; Gaz. vol. 215; p. 451.
- Shoes, Manufacture of welt-. H. J. Percy. No. 1,141,912; June 1; Gaz. vol. 215; p. 290.
- Shoes, Manufacturing. H. J. Asmus. No. 1,160,967; Nov. 16; Gaz. vol. 220; p. 987.
- Shoes off the last, Machine for taking. F. Walz. No. 1,165,818; Dec. 28; Gaz. vol. 221; p. 1202.
- Shoes, Repair-counter for. J. W. Bodeen. No. 1,136,764; Apr. 20; Gaz. vol. 213; p. 1033.
- Shoes, Rotary tool operating on parts of. A. L. Russell. No. 1,149,859; Aug. 10; Gaz. vol. 217; p. 595.
- Shoes, rubbers, or overshoes, Antislipping attachment for. R. Osaka. No. 1,132,208; Mar. 16; Gaz. vol. 212; p. 898.
- Shoes, Toe or heel plate for. G. C. Meakim. No. 1,155,258; Sept. 28; Gaz. vol. 218; p. 1108.
- Shoes, Treating. T. F. Whelan. No. 1,157,480; Oct. 19; Gaz. vol. 219; p. 810.
- Shoes with liquids, Machine for treating. L. F. Weber. No. 1,149,235; Aug. 10; Gaz. vol. 217; p. 868.
- Shoemaker's jack. J. Holzmark. No. 1,131,837; Mar. 16; Gaz. vol. 212; p. 765.
- Shoemaker's jack. O. Jensen. No. 1,138,383; May 4; Gaz. vol. 214; p. 234.
- Shoemaker's jack. G. and O. Laporte. No. 1,151,021; Aug. 24; Gaz. vol. 217; p. 1120.
- Shoemaker's jack. J. A. Mogle. No. 1,134,889; Apr. 6; Gaz. vol. 213; p. 289.
- Shoemaking. A. B. Wales. No. 1,143,740; June 22; Gaz. vol. 215; p. 1028.
- Shoemaking-machine. E. Erickson. No. 1,137,125; Apr. 27; Gaz. vol. 213; p. 1199.
- Shoemaking-machine. E. Erickson. No. 1,141,324; June 1; Gaz. vol. 215; p. 85.
- Shoemaking-machine. E. W. Varney. No. 1,141,289; June 1; Gaz. vol. 215; p. 71.
- Shooting apparatus. H. and R. Y. Dickinson. No. 1,126,415; Jan. 26; Gaz. vol. 210; p. 1250.
- Shores and directing the flow of watercourses, Means for protecting. J. W. Adamson. No. 1,146,229; July 13; Gaz. vol. 216; p. 459.
- Shot-receptacle. R. G. Clyne. No. 1,160,974; Nov. 16; Gaz. vol. 220; p. 989.
- Shotgun-muffler. S. T. Jones. No. 1,130,609; Mar. 2; Gaz. vol. 212; p. 269.
- Shotguns, Cartridge-stop for magazine-. F. Moench. No. 1,157,571; Oct. 19; Gaz. vol. 219; p. 839.
- Shoulder-brace and compressor, Combined. E. Schweinburg. No. 1,137,541; Apr. 27; Gaz. vol. 213; p. 1347.
- Shoulder-pad. S. Levin. No. 1,151,696; Aug. 31; Gaz. vol. 217; p. 1395.
- Shovel: See—
- Ash-sifting shovel. Excavating-shovel.
- Combination-shovel. Fender-shovel.
- Cultivator-shovel. Starch-shovel.
- Shovel. E. A. Anderson. No. 1,146,609; July 13; Gaz. vol. 216; p. 593.
- Shovel. E. W. Armstrong. No. 1,162,845; Dec. 7; Gaz. vol. 221; p. 40.
- Shovel. I. F. Arnow. No. 1,136,754; Apr. 20; Gaz. vol. 213; p. 1030.
- Shovel. G. E. Brown. No. 1,132,067; Mar. 16; Gaz. vol. 212; p. 847.
- Shovel. J. Gifford. No. 1,159,316; Nov. 2; Gaz. vol. 220; p. 316.
- Shovel and ax, Combination. V. L. Lopez and A. L. Romero. No. 1,124,046; Jan. 5; Gaz. vol. 210; p. 288.
- Shovel and brush, Combined. C. Crisman. No. 1,143,752; June 22; Gaz. vol. 215; p. 1032.
- Shovel-board. E. W. Dennis. No. 1,138,545; May 4; Gaz. vol. 214; p. 288.
- Shovel-dipper doors, Tripping device for. F. H. Armstrong. No. 1,154,157; Sept. 21; Gaz. vol. 218; p. 704.
- Shovel-handle. N. G. Robertson. No. 1,127,923; Feb. 9; Gaz. vol. 211; p. 482.
- Shovel-handle, Auxiliary lifting. N. A. Herringstad. No. 1,151,012; Aug. 24; Gaz. vol. 217; p. 1117.
- Shovel or spade. N. G. Robertson. No. 1,150,626; Aug. 17; Gaz. vol. 217; p. 927.
- Shovel or spade attachment. K. Siedow. No. 1,138,018; May 4; Gaz. vol. 214; p. 102.
- Shovel, Power-. E. J. Armstrong. No. 1,163,633; Dec. 14; Gaz. vol. 221; p. 358.
- Shovel, Power-. E. J. Armstrong. No. 1,163,634; Dec. 14; Gaz. vol. 221; p. 359.
- Shovels, Latch-operating device for steam-. J. N. Belanger. No. 1,148,432; July 27; Gaz. vol. 216; p. 1279.
- Show-case. W. E. Huston. No. 1,132,585; Mar. 23; Gaz. vol. 212; p. 1083.
- Show-case. L. Johnson. No. 1,130,407; Mar. 2; Gaz. vol. 212; p. 197.
- Show-case. F. Loudon. No. 1,123,332; Jan. 5; Gaz. vol. 210; p. 46.
- Show-case. C. B. Orr. No. 1,145,261; July 6; Gaz. vol. 216; p. 100.
- Show-case. J. A. Rotherham. (Reissue.) No. 13,875; Feb. 2; Gaz. vol. 211; p. 251.
- Show-case. L. W. Welch. No. 1,138,599; May 4; Gaz. vol. 214; p. 306.
- Show-case. E. E. Yellnek. No. 1,155,863; Oct. 5; Gaz. vol. 219; p. 188.
- Show-case. T. F. Murphy. No. 1,159,859; Nov. 9; Gaz. vol. 220; p. 543.
- Show-case. C. H. Schraag. No. 1,158,568; Nov. 2; Gaz. vol. 220; p. 56.
- Show-case base, Metallic. H. J. Hunt. No. 1,157,985; Oct. 26; Gaz. vol. 219; p. 1048.
- Show-case bracket. E. F. Bergreen. No. 1,144,930; June 29; Gaz. vol. 215; p. 1468.
- Show-case construction. M. A. Skall. No. 1,141,275; June 1; Gaz. vol. 215; p. 66.
- Show-case door. O. L. Smith. No. 1,161,900; Nov. 30; Gaz. vol. 220; p. 1406.
- Show-case light. A. W. Beuttell. No. 1,137,379; Apr. 27; Gaz. vol. 213; p. 1292.
- Show-case, Sanitary. J. F. Deardorff. No. 1,138,939; May 11; Gaz. vol. 214; p. 465.
- Show-cases, Illuminating means for. R. H. Hess. No. 1,149,140; Aug. 3; Gaz. vol. 217; p. 229.
- Shower, Adjustable. R. D. Rennie. No. 1,161,528; Nov. 23; Gaz. vol. 220; p. 1232.
- Shower-bath, Curtainless. A. E. Kenney. (Reissue.) No. 13,877; Feb. 9; Gaz. vol. 211; p. 606.
- Shower-bath, Curtainless. A. E. Kenney. No. 1,130,520; Mar. 2; Gaz. vol. 212; p. 239.
- Shower-bath, Curtainless. A. E. Kenney. (Reissue.) No. 13,911; May 4; Gaz. vol. 214; p. 313.
- Shower-bath, Portable. R. A. Rutland. No. 1,147,648; July 20; Gaz. vol. 216; p. 977.
- Shower-ring, Overlap. G. T. Colter. No. 1,128,662; Feb. 16; Gaz. vol. 211; p. 788.
- Shredder-cylinder. C. L. Johnson. No. 1,150,198; Aug. 17; Gaz. vol. 217; p. 777.
- Shroud and bucket. H. J. Hanzlik. No. 1,152,812; Sept. 7; Gaz. vol. 218; p. 159.
- Shut off device, Automatic. A. Levedahl. No. 1,133,483; Mar. 30; Gaz. vol. 212; p. 1443.
- Shutter-bower. J. G. Huot. No. 1,164,523; Dec. 14; Gaz. vol. 221; p. 672.

Alphabetical list of inventions—Continued.

- Shutter-controlling device. D. L. Brown. No. 1,159,169; Nov. 2; Gaz. vol. 220; p. 263.
- Shutter-fastener. J. Pacelli. No. 1,156,707; Oct. 12; Gaz. vol. 219; p. 507.
- Shutter for poultry-houses and the like, Automatic. F. M. Hawkins. No. 1,163,663; Dec. 14; Gaz. vol. 221; p. 368.
- Shutter-holding device. J. Hesketh and A. Olson. No. 1,152,947; Sept. 7; Gaz. vol. 218; p. 209.
- Shutter-lock. G. W. Fisher. No. 1,152,720; Sept. 7; Gaz. vol. 218; p. 125.
- Shutter-operating device. S. L. Phillips. No. 1,161,331; Nov. 23; Gaz. vol. 220; p. 1162.
- Shutter-operator. F. J. Killian. No. 1,132,098; Mar. 16; Gaz. vol. 212; p. 857.
- Shutter mechanism. J. T. Austin. No. 1,164,973; Dec. 21; Gaz. vol. 221; p. 868.
- Shutter-releasing means, Time-controlled. C. Hutter. No. 1,161,683; Nov. 23; Gaz. vol. 220; p. 1285.
- Shutter, Window-. J. Lockhart. No. 1,149,273; Aug. 10; Gaz. vol. 217; p. 332.
- Shutters or curtains, Mechanism for raising and lowering. E. H. McCloud. No. 1,158,824; Nov. 2; Gaz. vol. 220; p. 147.
- Shuttle. J. B. Daudelin. No. 1,149,249; Aug. 10; Gaz. vol. 217; p. 373.
- Shuttle. G. A. Donaldson. No. 1,144,178; June 22; Gaz. vol. 215; p. 1183.
- Shuttle. L. P. Spencer. No. 1,127,937; Feb. 9; Gaz. vol. 211; p. 488.
- Shuttle. L. E. Topham. No. 1,131,095; Mar. 9; Gaz. vol. 212; p. 469.
- Shuttle. E. La Vallee. No. 1,154,420; Sept. 21; Gaz. vol. 218; p. 795.
- Shuttle-bobbin holder. A. Mandeville. No. 1,132,664; Mar. 23; Gaz. vol. 212; p. 1113.
- Shuttle-case. F. N. La Chapelle. No. 1,146,001; July 13; Gaz. vol. 216; p. 379.
- Shuttle-cutting machine. R. N. Allen. No. 1,126,337; Jan. 26; Gaz. vol. 210; p. 1223.
- Shuttle-eye. J. Faltus. No. 1,159,577; Nov. 9; Gaz. vol. 220; p. 440.
- Shuttle for weaving. T. Redman. No. 1,130,764; Mar. 9; Gaz. vol. 212; p. 356.
- Shuttle, Hand-threading. R. Packer. No. 1,156,034; Oct. 5; Gaz. vol. 219; p. 246.
- Shuttle-holder. M. S. Cunningham. No. 1,161,624; Nov. 23; Gaz. vol. 220; p. 1264.
- Shuttle-motion, Positive high-speed. C. R. Saatweber. No. 1,142,059; June 8; Gaz. vol. 215; p. 379.
- Shuttle-operating mechanism. G. G. Sands. No. 1,138,418; May 4; Gaz. vol. 214; p. 246.
- Shuttle-positioning means. R. Crompton. No. 1,143,105; June 13; Gaz. vol. 215; p. 784.
- Shuttle-release mechanism. J. W. Killpartrick. No. 1,153,500; Sept. 14; Gaz. vol. 218; p. 441.
- Shuttle-release mechanism. J. W. Killpartrick. No. 1,156,148; Oct. 12; Gaz. vol. 219; p. 312.
- Shuttle, Self-threading. R. N. Allen. No. 1,126,338; Jan. 26; Gaz. vol. 210; p. 1224.
- Shuttle, Self-threading. R. N. Allen. No. 1,145,649; July 6; Gaz. vol. 216; p. 236.
- Shuttle, Self-threading. J. Northrop. No. 1,145,610; July 6; Gaz. vol. 216; p. 221.
- Shuttle tension device. F. Ashworth. No. 1,128,651; Feb. 16; Gaz. vol. 211; p. 783.
- Shuttle-threading attachment. W. J. Roberts. No. 1,140,287; May 18; Gaz. vol. 214; p. 974.
- Shuttles, Bobbin-clamp for. R. N. Allen. No. 1,145,650; July 6; Gaz. vol. 216; p. 236.
- Sickle. S. M. Kitchen. No. 1,162,932; Dec. 7; Gaz. vol. 221; p. 68.
- Sickle-bar and pitman-rod connector. H. Urie. No. 1,141,731; June 1; Gaz. vol. 215; p. 228.
- Sickle-bar-holding device. M. Tausan. No. 1,133,589; Mar. 30; Gaz. vol. 212; p. 1483.
- Sickle-holder. W. E. Converse. No. 1,149,116; Aug. 3; Gaz. vol. 217; p. 220.
- Sickle or cutter bars, Means for securing cutting sections or knives to. R. O. Moberg. No. 1,156,703; Oct. 12; Gaz. vol. 219; p. 506.
- Side-delivery rake. E. C. Smith. No. 1,146,966; July 20; Gaz. vol. 216; p. 737.
- Side frame. H. L. Allen. No. 1,165,740; Dec. 28; Gaz. vol. 221; p. 1176.
- Side frame. J. A. Lamont. No. 1,146,886; July 20; Gaz. vol. 216; p. 708.
- Side frame. A. H. Peycke. No. 1,165,707; Dec. 28; Gaz. vol. 221; p. 1164.
- Side frame and journal-box. E. W. Palmquist. No. 1,143,723; June 22; Gaz. vol. 215; p. 1023.
- Side frame, Built-up. C. E. Bauer. No. 1,157,832; Oct. 26; Gaz. vol. 219; p. 993.
- Side frame, Built-up. J. A. Lamont. No. 1,151,693; Aug. 31; Gaz. vol. 217; p. 1394.
- Side-frame cross connection. W. J. Lynch. No. 1,140,049; May 18; Gaz. vol. 214; p. 894.
- Side frame, Trussed. J. A. Lamont. No. 1,165,682; Dec. 28; Gaz. vol. 221; p. 1156.
- Sidewalk and road form. J. N. Heltzel. No. 1,141,057; May 25; Gaz. vol. 214; p. 1280.
- Sidewalk-door. S. Frank. No. 1,159,919; Nov. 9; Gaz. vol. 220; p. 565.
- Sidewalk-skylight. H. de Cordova. No. 1,130,577; Mar. 2; Gaz. vol. 212; p. 258.
- Sieve. S. C. Lawlor. No. 1,136,243; Apr. 20; Gaz. vol. 213; p. 847.
- Sieve. J. H. White. No. 1,133,418; Mar. 30; Gaz. vol. 212; p. 1422.
- Sieve, Brush-lined. A. L. Bausman. No. 1,141,863; June 1; Gaz. vol. 215; p. 270.
- Sieve, Corrugated rotary. O. L. Larson. No. 1,139,041; May 11; Gaz. vol. 214; p. 504.
- Sieve, Corrugated rotary. O. L. Larson. No. 1,149,375; Aug. 10; Gaz. vol. 217; p. 420.
- Sieve, Florist's dirt-. L. Milliot. No. 1,132,667; Mar. 23; Gaz. vol. 212; p. 1114.
- Sifter. H. Doyle. No. 1,158,188; Oct. 26; Gaz. vol. 219; p. 1120.
- Sifter. S. M. Green. No. 1,149,909; Aug. 10; Gaz. vol. 217; p. 613.
- Sifter. W. Nitchhauser. No. 1,137,886; May 4; Gaz. vol. 214; p. 57.
- Sifter and can. Ash. J. Balcanqual. No. 1,162,280; Nov. 30; Gaz. vol. 220; p. 1540.
- Sifter and driving mechanism therefor. H. W. Gladhill. No. 1,124,222; Jan. 5; Gaz. vol. 210; p. 350.
- Sifter, Ash-. A. F. Andrews. No. 1,141,297; June 1; Gaz. vol. 215; p. 75.
- Sifter, Ash-. W. A. Bevard. No. 1,135,567; Apr. 13; Gaz. vol. 213; p. 569.
- Sifter, Ash-. E. J. Blass. No. 1,155,875; Oct. 5; Gaz. vol. 219; p. 192.
- Sifter, Ash-. J. E. Crosby. No. 1,125,482; Jan. 19; Gaz. vol. 210; p. 883.
- Sifter, Ash-. W. H. De Laney. No. 1,141,949; June 8; Gaz. vol. 215; p. 339.
- Sifter, Ash-. J. W. Grundorf. No. 1,135,107; Apr. 13; Gaz. vol. 213; p. 410.
- Sifter, Ash-. M. Hayes. No. 1,133,137; Mar. 23; Gaz. vol. 212; p. 1286.
- Sifter, Ash-. C. Kaiser. No. 1,141,550; June 1; Gaz. vol. 215; p. 165.
- Sifter, Ash-. C. Martin. No. 1,138,679; May 11; Gaz. vol. 214; p. 373.
- Sifter, Ash-. W. J. Nethercott. No. 1,156,923; Oct. 19; Gaz. vol. 219; p. 612.
- Sifter, Ash-. C. F. Nolte. No. 1,154,932; Sept. 28; Gaz. vol. 218; p. 997.
- Sifter-drive. L. J. Ziegler. No. 1,155,633; Oct. 5; Gaz. vol. 219; p. 106.
- Sifter, Flour-. F. Bennett. No. 1,124,993; Jan. 12; Gaz. vol. 210; p. 674.
- Sifter, Flour-. K. J. Ensminger. No. 1,125,500; Jan. 19; Gaz. vol. 210; p. 889.
- Sifter, Flour-. W. Luxmore. No. 1,152,650; Sept. 7; Gaz. vol. 218; p. 100.
- Sifter, Flour-. G. McEachron. No. 1,137,068; Apr. 27; Gaz. vol. 213; p. 1178.
- Sifter, Flour-. N. G. Spencer. No. 1,148,124; July 27; Gaz. vol. 216; p. 1172.
- Sifter, Flour-. H. B. Sperry. No. 1,162,816; Dec. 7; Gaz. vol. 221; p. 30.
- Sifter, Gyratory. J. E. Shank. No. 1,128,729; Feb. 16; Gaz. vol. 211; p. 809.
- Sifting-machine. L. E. Simpson. No. 1,141,660; June 1; Gaz. vol. 215; p. 204.
- Sifter or screen. G. H. Fraser. No. 1,165,870; Dec. 28; Gaz. vol. 221; p. 1220.
- Sifter, Pneumatic. F. Holl. No. 1,159,030; Nov. 2; Gaz. vol. 220; p. 214.
- Sifter-top. A. Hess. No. 1,157,537; Oct. 19; Gaz. vol. 219; p. 829.
- Sifter-top closure. A. Frankenberg. No. 1,153,378; Sept. 14; Gaz. vol. 218; p. 397.
- Sifter-top closure. A. Frankenberg. No. 1,153,379; Sept. 14; Gaz. vol. 218; p. 398.
- Sifter-top closure. F. C. Truesbury. No. 1,153,356; Sept. 14; Gaz. vol. 218; p. 389.
- Sifting apparatus. W. Lindsay. No. 1,161,234; Nov. 23; Gaz. vol. 220; p. 1128.
- Sifting apparatus. Sand-. H. O. Magnusson. No. 1,164,735; Dec. 21; Gaz. vol. 221; p. 784.
- Sight-feed lubricator. F. W. Edwards. No. 1,153,546; Sept. 14; Gaz. vol. 218; p. 459.
- Sight-feed lubricator for locomotives. L. Kassander. No. 1,153,113; Sept. 7; Gaz. vol. 218; p. 264.
- Sight-glass. E. A. Kelsey. No. 1,129,988; Mar. 2; Gaz. vol. 212; p. 53.
- Sight-glass. R. Wood. No. 1,164,694; Dec. 21; Gaz. vol. 221; p. 771.
- Sighting device. E. A. Kelsey. No. 1,145,902; July 13; Gaz. vol. 216; p. 343.
- Sighting device. O. Mackensen. No. 1,160,184; Nov. 16; Gaz. vol. 220; p. 710.
- Sighting device. O. von Eberhard. No. 1,157,468; Oct. 19; Gaz. vol. 219; p. 805.
- Sighting device and automatic projectile-releaser for air-vehicles, Combined. L. Mandelartz. No. 1,130,621; Mar. 2; Gaz. vol. 212; p. 272.
- Sighting instrument for aerial use. O. Mackensen. No. 1,143,719; June 22; Gaz. vol. 215; p. 1022.

Alphabetical list of inventions—Continued.

- Sign. E. Bambeck. No. 1,132,823; Mar. 23; Gaz. vol. 212; p. 1173.
- Sign. J. O. Belknap. No. 1,141,685; June 1; Gaz. vol. 215; p. 213.
- Sign. C. A. Bindhammer. No. 1,163,638; Dec. 14; Gaz. vol. 221; p. 360.
- Sign. C. F. Broadbent. No. 1,143,168; June 15; Gaz. vol. 215; p. 806.
- Sign. A. F. Conner and G. L. Willett. No. 1,133,935; Mar. 30; Gaz. vol. 212; p. 1605.
- Sign. A. F. Conner and G. L. Willett. No. 1,151,343; Aug. 24; Gaz. vol. 217; p. 1228.
- Sign. A. F. Conner and G. L. Willett. No. 1,152,146; Aug. 31; Gaz. vol. 217; p. 1552.
- Sign. G. J. Klebenstein and D. F. Arnold. No. 1,123,313; Jan. 5; Gaz. vol. 210; p. 39.
- Sign. M. S. Morris and J. Bendein. No. 1,148,114; July 27; Gaz. vol. 216; p. 1168.
- Sign. F. W. Ruby. No. 1,130,844; Mar. 9; Gaz. vol. 212; p. 383.
- Sign. C. C. Wortley. No. 1,128,741; Feb. 16; Gaz. vol. 211; p. 814.
- Sign and holder. W. C. Graebe. No. 1,140,977; May 25; Gaz. vol. 214; p. 1253.
- Sign and lighting post. Adjustable. G. Auer. No. 1,144,629; June 29; Gaz. vol. 215; p. 1365.
- Sign. Advertising. H. M. Black. No. 1,152,780; Sept. 7; Gaz. vol. 218; p. 146.
- Sign. Automatic. H. L. Forbes. No. 1,161,853; Nov. 30; Gaz. vol. 220; p. 1389.
- Sign-board. W. Karpen. No. 1,132,097; Mar. 16; Gaz. vol. 212; p. 856.
- Sign. Changeable. C. P. Ebersole. No. 1,133,624; Mar. 30; Gaz. vol. 212; p. 1496.
- Sign. Changeable. G. F. Felscher. (Reissue.) No. 1,389,646; Apr. 6; Gaz. vol. 213; p. 323.
- Sign. Changeable. W. C. Grant. No. 1,163,750; Dec. 14; Gaz. vol. 221; p. 402.
- Sign. Changeable. G. Star. No. 1,142,777; June 8; Gaz. vol. 215; p. 629.
- Sign. Daily-date. J. F. Eddy. No. 1,153,543; Sept. 14; Gaz. vol. 218; p. 458.
- Sign. Daily-date. J. F. Eddy. No. 1,153,544; Sept. 14; Gaz. vol. 218; p. 458.
- Sign. Daily-date. J. F. Eddy. No. 1,153,545; Sept. 14; Gaz. vol. 218; p. 458.
- Sign. Detachable. J. G. Diffenderfer. No. 1,124,398; Jan. 12; Gaz. vol. 210; p. 460.
- Sign. Electric. A. J. Brown. No. 1,129,632; Feb. 23; Gaz. vol. 211; p. 1164.
- Sign. Electric. H. S. Williams. No. 1,139,614; May 18; Gaz. vol. 214; p. 739.
- Sign. Electric talking. L. H. Jones. No. 1,143,201; June 15; Gaz. vol. 215; p. 819.
- Sign for store-windows. Display. O. James. No. 1,141,801; June 1; Gaz. vol. 215; p. 251.
- Sign holder. Bar tap. J. H. McCallion. No. 1,132,950; Mar. 23; Gaz. vol. 212; p. 1219.
- Sign. Illuminated. R. O. Brittain. No. 1,157,672; Oct. 26; Gaz. vol. 219; p. 938.
- Sign. Illuminated. F. W. Burton. No. 1,152,703; Sept. 7; Gaz. vol. 218; p. 119.
- Sign. Illuminated. J. Butenschon. No. 1,133,926; Mar. 30; Gaz. vol. 212; p. 1602.
- Sign. Illuminated. J. Butenschon. No. 1,157,504; Oct. 19; Gaz. vol. 219; p. 818.
- Sign. Illuminated. A. F. Conner and G. L. Willett. No. 1,141,691; June 1; Gaz. vol. 215; p. 215.
- Sign. Illuminated. C. A. McNeal. No. 1,135,308; Apr. 13; Gaz. vol. 213; p. 478.
- Sign. Illuminated. F. N. Poulalion. No. 1,139,222; May 11; Gaz. vol. 214; p. 566.
- Sign. Illuminated. E. A. Rich, Jr. No. 1,139,723; May 18; Gaz. vol. 214; p. 778.
- Sign. Illuminated. W. H. Spencer. No. 1,148,341; July 27; Gaz. vol. 216; p. 1249.
- Sign. Illuminated. W. H. Spencer and H. C. Storm. No. 1,146,361; July 13; Gaz. vol. 216; p. 504.
- Sign. Illuminated. W. F. Stack. No. 1,126,901; Feb. 2; Gaz. vol. 211; p. 83.
- Sign. Illuminated. R. R. Wiley. No. 1,123,969; Jan. 5; Gaz. vol. 210; p. 261.
- Sign. Illuminated lens. W. M. Scarborough. No. 1,130,201; Mar. 2; Gaz. vol. 212; p. 125.
- Sign. Illuminating. J. Armantage and F. Roehrig. No. 1,139,395; May 11; Gaz. vol. 214; p. 626.
- Sign. Interchangeable-letter. A. F. Brandenburg. No. 1,159,465; Nov. 9; Gaz. vol. 220; p. 401.
- Sign. Louver. J. F. Martter. No. 1,150,444; Aug. 17; Gaz. vol. 217; p. 861.
- Sign or advertising device. F. Z. Hanscom. No. 1,136,873; Apr. 20; Gaz. vol. 213; p. 1071.
- Sign or indicator. Illuminating and sounding. J. A. Dempsey. No. 1,124,215; Jan. 5; Gaz. vol. 210; p. 348.
- Sign-plate. W. C. Curran. No. 1,127,599; Feb. 9; Gaz. vol. 211; p. 367.
- Sign-post. J. H. Ridenour. No. 1,139,802; May 18; Gaz. vol. 214; p. 806.
- Sign-projecting device. P. R. Hay. No. 1,129,092; Feb. 23; Gaz. vol. 211; p. 974.
- Sign. Reversible. H. Decker, Jr. No. 1,151,446; Aug. 24; Gaz. vol. 217; p. 1262.
- Sign. Street. J. N. Early. No. 1,157,515; Oct. 19; Gaz. vol. 219; p. 822.
- Sign. Window. R. M. Smith. No. 1,166,270; Dec. 28; Gaz. vol. 221; p. 1365.
- Signs. Controlling mechanism for electric-light. W. A. Willower, C. W. Angell, and J. W. Gallaspie. No. 1,166,030; Dec. 28; Gaz. vol. 221; p. 1275.
- Signs. Transmitter for systems of electrically recording. P. Etienne. No. 1,142,684; June 8; Gaz. vol. 215; p. 596.
- Signal: See—
- Automobile-signal.
 - Automobile direction-signal.
 - Automobile guide-signal.
 - Automobile light-signal.
 - Automobile traffic-signal.
 - Cab-signal.
 - Car-signal.
 - Crossing-signal.
 - Drip-pan signal.
 - Dynamic return indication-signal.
 - Electric signal.
 - Electrical signal.
 - Elevator-signal.
 - Fog-signal.
 - Indicator-signal.
 - Mail-box signal.
 - Railway-signal.
 - Railway automatic signal.
 - Railway fog-signal.
 - Rain-signal.
 - Switch-signal.
 - Telephone-signal.
 - Tire-signal.
 - Valve signal.
 - Valve and tire-signal.
 - Vehicle-signal.
 - Vehicle rear-end signal.
 - Warning-signal.
 - Way-signal.
- Signal. E. O. Branington. No. 1,136,402; Apr. 20; Gaz. vol. 213; p. 905.
- Signal. C. O. Harrington. No. 1,127,199; Feb. 2; Gaz. vol. 211; p. 188.
- Signal. C. O. Harrington. No. 1,157,102; Oct. 19; Gaz. vol. 219; p. 675.
- Signal. W. K. Howe. No. 1,150,005; Aug. 10; Gaz. vol. 217; p. 647.
- Signal. A. J. McQuaide. No. 1,158,950; Nov. 2; Gaz. vol. 220; p. 189.
- Signal. A. G. Rembitt. No. 1,126,272; Jan. 26; Gaz. vol. 210; p. 1200.
- Signal. C. S. Snively. No. 1,154,068; Sept. 21; Gaz. vol. 218; p. 674.
- Signal-actuating mechanism. H. P. Ryner. No. 1,165,540; Dec. 28; Gaz. vol. 221; p. 1104.
- Signal apparatus. D. Baker. No. 1,154,162; Sept. 21; Gaz. vol. 218; p. 705.
- Signal apparatus. H. F. Newbury. No. 1,132,605; Mar. 23; Gaz. vol. 212; p. 1091.
- Signal apparatus. H. F. Newbury. No. 1,132,606; Mar. 23; Gaz. vol. 212; p. 1091.
- Signal apparatus. W. K. Porter. No. 1,162,646; Nov. 30; Gaz. vol. 220; p. 1660.
- Signal apparatus. W. H. Wells and J. R. McCumber. No. 1,126,145; Jan. 26; Gaz. vol. 210; p. 1153.
- Signal apparatus. Vehicle. B. L. Bobroff. No. 1,149,245; Aug. 10; Gaz. vol. 217; p. 372.
- Signal apparatus. Vehicle. B. L. Bobroff. No. 1,162,442; Nov. 30; Gaz. vol. 220; p. 1595.
- Signal-box. T. H. S. Cone. No. 1,139,258; May 11; Gaz. vol. 214; p. 578.
- Signal circuit. Normally-closed cab. P. J. Simmen. No. 1,150,307; Aug. 17; Gaz. vol. 217; p. 816.
- Signal control. J. B. Guyer. No. 1,164,507; Dec. 14; Gaz. vol. 221; p. 666.
- Signal device. W. F. May. No. 1,165,269; Dec. 21; Gaz. vol. 221; p. 972.
- Signal device. N. E. Rennar. No. 1,165,126; Dec. 21; Gaz. vol. 221; p. 923.
- Signal device. M. F. Sitta. No. 1,142,062; June 8; Gaz. vol. 215; p. 380.
- Signal device. S. T. Warner. No. 1,138,029; May 4; Gaz. vol. 214; p. 106.
- Signal device and projector therefor. M. R. Hutchison. No. 1,149,583; Aug. 10; Gaz. vol. 217; p. 493.
- Signal device. Automatic. S. S. Davis. No. 1,166,332; Dec. 28; Gaz. vol. 221; p. 1386.
- Signal device. Automatic stop or cab. E. M. Jones. No. 1,142,886; June 15; Gaz. vol. 215; p. 707.
- Signal device. Code. A. L. Sohm. No. 1,144,870; June 29; Gaz. vol. 215; p. 1449.
- Signal device. Electric. A. H. Caven. No. 1,157,296; Oct. 19; Gaz. vol. 219; p. 745.
- Signal device for submarine vessels. E. B. Walsh. No. 1,153,277; Sept. 14; Gaz. vol. 218; p. 360.
- Signal device. Means for divided control of an electric. M. Levison. No. 1,153,505; Sept. 14; Gaz. vol. 218; p. 443.
- Signal device. Safety. E. G. Norvell. No. 1,162,248; Nov. 30; Gaz. vol. 220; p. 1528.
- Signal device. Submarine. G. A. Lowry. No. 1,124,768; Jan. 12; Gaz. vol. 210; p. 594.
- Signal device. Warning. W. W. Dean. No. 1,152,008; Aug. 31; Gaz. vol. 217; p. 1503.
- Signal device. Warning. R. H. Manson. No. 1,135,600; Apr. 13; Gaz. vol. 213; p. 580.
- Signal for automobiles and other vehicles. E. C. Shuler and S. Cohen. No. 1,128,066; Feb. 9; Gaz. vol. 211; p. 533.
- Signal impulses. Method of and apparatus for sending. A. N. Hovland. No. 1,133,726; Mar. 30; Gaz. vol. 212; p. 1533.
- Signal-indicator. Shipwreck. B. F. Nixon. No. 1,137,782; May 4; Gaz. vol. 214; p. 21.

- Signal-operating mechanism. T. Gibson, G. A. Farmer, and E. Read. No. 1,129,479; Feb. 23; Gaz. vol. 211; p. 1111.
- Signal-operator, Automatic. E. R. Gill. No. 1,150,110; Aug. 17; Gaz. vol. 217; p. 745.
- Signal or indicator. W. S. Woodruff and H. Kissinger. No. 1,131,305; Mar. 9; Gaz. vol. 212; p. 542.
- Signal or switch operating device. J. L. Neal. No. 1,151,898; Aug. 31; Gaz. vol. 217; p. 1467.
- Signal-station, Police. K. J. Wallace. No. 1,138,334; May 4; Gaz. vol. 214; p. 218.
- Signal station, Visual. A. L. Sohm. No. 1,138,988; May 11; Gaz. vol. 214; p. 483.
- Signal-switch. B. Miller. No. 1,159,521; Nov. 9; Gaz. vol. 220; p. 420.
- Signal-switch, Electric. W. A. Pearce. No. 1,146,204; July 13; Gaz. vol. 216; p. 451.
- Signal system. G. Brown. No. 1,131,770; Mar. 16; Gaz. vol. 212; p. 739.
- Signal system. J. P. Buchanan and F. B. Wiegand. No. 1,150,494; Aug. 17; Gaz. vol. 217; p. 880.
- Signal system. C. W. Coleman. No. 1,157,845; Oct. 26; Gaz. vol. 219; p. 998.
- Signal system. G. Furrer. No. 1,128,126; Feb. 9; Gaz. vol. 211; p. 533.
- Signal system. C. H. and G. E. Johnson. No. 1,163,346; Dec. 7; Gaz. vol. 221; p. 215.
- Signal system, Closed-circuit. E. M. Jones. No. 1,126,775; Feb. 2; Gaz. vol. 211; p. 39.
- Signal system, Electric. E. M. Jones. No. 1,126,776; Feb. 2; Gaz. vol. 211; p. 39.
- Signal system, Electric. E. M. Jones. No. 1,126,777; Feb. 2; Gaz. vol. 211; p. 40.
- Signal system, Electric. E. A. and H. V. Reynolds. No. 1,131,006; Mar. 9; Gaz. vol. 212; p. 439.
- Signal system, Electric automatic train stop, telephone, and block. W. J. Crabbe and H. B. Rodehaver. No. 1,149,159; Aug. 3; Gaz. vol. 217; p. 236.
- Signal system for hospitals, Electric. M. O. Burt. No. 1,134,105; Apr. 6; Gaz. vol. 213; p. 8.
- Signal system, Train. W. E. Benn. No. 1,126,178; Jan. 26; Gaz. vol. 210; p. 1167.
- Signal-transmission means. J. McFell. No. 1,140,471; May 25; Gaz. vol. 214; p. 1077.
- Signal-transmitter. C. Miller. No. 1,160,188; Nov. 16; Gaz. vol. 220; p. 711.
- Signal-transmitting apparatus, Selective. H. Joslyn and C. L. Lynch. No. 1,133,034; Mar. 23; Gaz. vol. 212; p. 1251.
- Signals at danger, Electromagnetic device for notifying and recording the passing of. H. Cousin. No. 1,139,347; May 11; Gaz. vol. 214; p. 608.
- Signals, Electrical apparatus for transmitting. W. Akemann. No. 1,166,034; Dec. 28; Gaz. vol. 221; p. 1276.
- Signals from bridge to engine-room, Mechanism for insuring understanding of. W. Michael. No. 1,144,491; June 29; Gaz. vol. 215; p. 1319.
- Signals, Transmitting and receiving. R. A. Fessenden. No. 1,157,094; Oct. 19; Gaz. vol. 219; p. 673.
- Signals, Transmitting apparatus for submarine. J. Schiessler. No. 1,126,095; Jan. 26; Gaz. vol. 210; p. 1136.
- Signaling and indicating device. J. J. Aylward. No. 1,126,681; Feb. 2; Gaz. vol. 211; p. 4.
- Signaling and train-stopping device. O. Kropp. No. 1,151,195; Aug. 24; Gaz. vol. 217; p. 1180.
- Signaling and train-stopping device, Automatic. E. M. Jones. No. 1,126,778; Feb. 2; Gaz. vol. 211; p. 40.
- Signaling apparatus. H. C. Davis and E. D. Chadwick. No. 1,138,543; May 4; Gaz. vol. 214; p. 287.
- Signaling apparatus. J. F. Duggan. No. 1,141,047; May 25; Gaz. vol. 214; p. 1276.
- Signaling apparatus. P. W. Fuller. No. 1,149,123; Aug. 3; Gaz. vol. 217; p. 223.
- Signaling apparatus. C. H. Smith. No. 1,153,265; Sept. 14; Gaz. vol. 218; p. 356.
- Signaling apparatus and circuit, Electric. F. B. Herzog. No. 1,126,007; Jan. 26; Gaz. vol. 210; p. 1103.
- Signaling apparatus and circuit, Electric. F. B. Herzog. No. 1,127,761; Feb. 9; Gaz. vol. 211; p. 424.
- Signaling apparatus and circuit, Electric. F. B. Herzog. No. 1,132,267; Mar. 16; Gaz. vol. 212; p. 920.
- Signaling apparatus and circuits therefor, Electric. F. B. Herzog. No. 1,124,617; Jan. 12; Gaz. vol. 210; p. 540.
- Signaling apparatus, Electric. F. B. Herzog. No. 1,154,184; Sept. 21; Gaz. vol. 218; p. 712.
- Signaling apparatus, Electric. O. G. H. E. Kehrhaun. No. 1,145,901; July 13; Gaz. vol. 216; p. 343.
- Signaling apparatus, Electric. E. G. Missbach. No. 1,135,040; Apr. 13; Gaz. vol. 213; p. 387.
- Signaling apparatus, Electric. E. G. Missbach. No. 1,150,054; Aug. 17; Gaz. vol. 217; p. 724.
- Signaling apparatus, Electrical. D. E. Beatley and P. M. Feltwell. No. 1,143,024; June 15; Gaz. vol. 215; p. 755.
- Signaling apparatus, Electrical. W. T. Craft. No. 1,127,193; Feb. 2; Gaz. vol. 211; p. 186.
- Signaling apparatus, Electromagnetic. C. H. North. No. 1,134,758; Apr. 6; Gaz. vol. 213; p. 247.
- Signaling apparatus for ships' telegraphs and the like, Electric. H. L. Stocks. No. 1,131,168; Mar. 9; Gaz. vol. 212; p. 493.
- Signaling apparatus, Military. B. R. Dietz. No. 1,135,778; Apr. 13; Gaz. vol. 213; p. 642.
- Signaling apparatus, Safety device for electric. A. C. Farrand. No. 1,146,616; July 13; Gaz. vol. 216; p. 595.
- Signaling apparatus, Selective. E. R. Gill. No. 1,137,474; Apr. 27; Gaz. vol. 213; p. 1325.
- Signaling apparatus, Selective. E. R. Gill. No. 1,137,475; Apr. 27; Gaz. vol. 213; p. 1325.
- Signaling apparatus, Selective electrical. L. M. Potts. No. 1,151,216; Aug. 24; Gaz. vol. 217; p. 1187.
- Signaling apparatus, Submarine. C. Berger. No. 1,155,124; Sept. 28; Gaz. vol. 218; p. 1066.
- Signaling apparatus, Wireless. R. A. Fessenden. No. 1,165,862; Dec. 28; Gaz. vol. 221; p. 1217.
- Signaling, braking, and throttle cut-off, Automatic train. J. A. Demers. No. 1,149,251; Aug. 10; Gaz. vol. 217; p. 374.
- Signaling by wireless telegraphy under the quenched-spark method, System of. G. von Arco and A. Melssner. No. 1,162,830; Dec. 7; Gaz. vol. 221; p. 35.
- Signaling-circuit. W. M. Perry and A. E. Boozer. No. 1,143,312; June 15; Gaz. vol. 215; p. 857.
- Signaling device. L. Abeles. No. 1,155,294; Sept. 28; Gaz. vol. 218; p. 1118.
- Signaling device. H. B. Anderson. No. 1,140,492; May 25; Gaz. vol. 214; p. 1085.
- Signaling device. C. B. Camp. No. 1,134,256; Apr. 6; Gaz. vol. 213; p. 64.
- Signaling device. J. R. Casper. No. 1,133,361; Mar. 30; Gaz. vol. 212; p. 1401.
- Signaling device. A. M. Georgeson. No. 1,154,756; Sept. 28; Gaz. vol. 218; p. 938.
- Signaling device. R. W. Giese and P. F. Rellly. No. 1,130,393; Mar. 2; Gaz. vol. 212; p. 192.
- Signaling device. P. E. Gillling. No. 1,153,215; Sept. 14; Gaz. vol. 218; p. 337.
- Signaling device. R. R. Root. No. 1,160,766; Nov. 16; Gaz. vol. 220; p. 916.
- Signaling device. G. J. Spohrer and W. E. Bean. No. 1,138,023; May 4; Gaz. vol. 214; p. 104.
- Signaling device. C. W. Waller. No. 1,153,320; Jan. 26; Gaz. vol. 210; p. 1217.
- Signaling device, Coin-operated. G. H. Davis. No. 1,150,254; Aug. 17; Gaz. vol. 217; p. 798.
- Signaling device, Electric. C. Brandon. No. 1,164,572; Dec. 14; Gaz. vol. 221; p. 686.
- Signaling device, Electrical. W. W. Dean. No. 1,141,945; June 8; Gaz. vol. 215; p. 338.
- Signaling device, Fisherman's. C. S. Ruggles. No. 1,162,257; Nov. 30; Gaz. vol. 220; p. 1532.
- Signaling device for polystyation-circuits. W. W. Dean. No. 1,125,492; Jan. 19; Gaz. vol. 210; p. 886.
- Signaling device for tradesmen. O. J. Orser. No. 1,135,915; Apr. 13; Gaz. vol. 213; p. 690.
- Signaling device, Inherent-power return. W. K. Howe. No. 1,125,541; Jan. 19; Gaz. vol. 210; p. 903.
- Signaling device, Motor-vehicle. J. A. Thompson. No. 1,138,809; May 11; Gaz. vol. 214; p. 421.
- Signaling device, Resetting. C. W. Stanchiffe. No. 1,147,053; July 20; Gaz. vol. 216; p. 768.
- Signaling device, Selective. R. N. Hill. No. 1,126,009; Jan. 26; Gaz. vol. 210; p. 1103.
- Signaling device, Selective. J. A. Wotton. No. 1,124,680; Jan. 12; Gaz. vol. 210; p. 563.
- Signaling device, Tide-operated submarine. G. C. Evans. No. 1,150,816; Aug. 17; Gaz. vol. 217; p. 991.
- Signaling device, Vehicle. C. C. McColgan. No. 1,162,377; Nov. 30; Gaz. vol. 220; p. 1572.
- Signaling device, Vehicle. C. C. McColgan and J. M. Smith. No. 1,162,724; Nov. 30; Gaz. vol. 220; p. 1687.
- Signaling device, Vehicle. M. T. Miller. No. 1,137,070; Apr. 27; Gaz. vol. 213; p. 1179.
- Signaling device, Vehicle. W. D. C. Wright. No. 1,155,026; Sept. 28; Gaz. vol. 218; p. 1028.
- Signaling, Electric. R. A. Fessenden. No. 1,132,568; Mar. 23; Gaz. vol. 212; p. 1077.
- Signaling, Electric. C. Kinsley. No. 1,126,641; Jan. 26; Gaz. vol. 210; p. 1334.
- Signaling, Electrical. W. W. Dean. No. 1,125,490; Jan. 19; Gaz. vol. 210; p. 885.
- Signaling, Inductance device for wireless electrical. C. O. Lorenz. No. 1,133,441; Mar. 30; Gaz. vol. 212; p. 1430.
- Signaling-instrument set. M. Levison. No. 1,128,013; Feb. 9; Gaz. vol. 211; p. 514.
- Signaling mechanism. J. Fears. No. 1,131,353; Mar. 9; Gaz. vol. 212; p. 557.
- Signaling mechanism, Automobile. S. W. Meredith and T. Walsh. No. 1,150,872; Aug. 24; Gaz. vol. 217; p. 1070.
- Signaling or releasing device for windows and the like, Automatic. F. Keeler. No. 1,153,314; Sept. 14; Gaz. vol. 218; p. 373.
- Signaling, Selective electrical. L. M. Potts. No. 1,135,321; Apr. 13; Gaz. vol. 213; p. 482.
- Signaling, Selective electrical. L. M. Potts. No. 1,135,920; Apr. 13; Gaz. vol. 213; p. 692.
- Signaling, Submarine. T. Bodde. No. 1,152,697; Sept. 7; Gaz. vol. 218; p. 117.
- Signaling, Submarine. W. Hahnemann and H. Hecht. No. 1,133,635; Mar. 30; Gaz. vol. 212; p. 1500.

Alphabetical list of inventions—Continued.

- Signaling system. E. E. Backus. No. 1,135,487; Apr. 13; Gaz. vol. 213; p. 540.
- Signaling system. C. E. Beach. No. 1,135,427; Apr. 13; Gaz. vol. 213; p. 520.
- Signaling system. H. L. Darrah. No. 1,163,896; Dec. 14; Gaz. vol. 221; p. 452.
- Signaling system. O. T. Lademan. No. 1,129,805; Feb. 23; Gaz. vol. 211; p. 1220.
- Signaling system. O. M. Leich and C. E. Hague. No. 1,154,929; Sept. 28; Gaz. vol. 218; p. 996.
- Signaling system. C. F. Mead. No. 1,164,737; Dec. 21; Gaz. vol. 221; p. 785.
- Signaling system. H. B. Mead and H. F. Guentzler. No. 1,132,106; Mar. 16; Gaz. vol. 212; p. 860.
- Signaling system. W. M. Perry. No. 1,143,313; June 15; Gaz. vol. 215; p. 858.
- Signaling system. C. H. Pool. No. 1,124,799; Jan. 12; Gaz. vol. 210; p. 605.
- Signaling system. A. and P. K. Stern. No. 1,144,873; June 29; Gaz. vol. 215; p. 1451.
- Signaling system. H. B. Stone. No. 1,149,418; Aug. 10; Gaz. vol. 217; p. 435.
- Signaling system. J. B. Struble. No. 1,128,075; Feb. 9; Gaz. vol. 211; p. 536.
- Signaling system. H. C. Wilson and C. R. B. Claffin. No. 1,150,829; Aug. 17; Gaz. vol. 217; p. 996.
- Signaling system. G. Witty. No. 1,128,210; Feb. 9; Gaz. vol. 211; p. 582.
- Signaling system and apparatus. Electrical. C. W. Ward. No. 1,156,334; Oct. 12; Gaz. vol. 219; p. 374.
- Signaling system. Composite electric. W. N. Phinney. No. 1,138,013; May 4; Gaz. vol. 214; p. 101.
- Signaling system. Electric. A. H. Bull. No. 1,155,547; Oct. 5; Gaz. vol. 219; p. 78.
- Signaling system. Electric. C. P. Nachod. No. 1,158,143; Oct. 26; Gaz. vol. 219; p. 1103.
- Signaling system. Electric. S. M. Young and F. Townsend. No. 1,154,588; Sept. 21; Gaz. vol. 218; p. 852.
- Signaling system. Electrical. E. G. Missbach. No. 1,126,826; Feb. 2; Gaz. vol. 211; p. 58.
- Signaling system. Electrical. C. R. Underhill. No. 1,149,874; Aug. 10; Gaz. vol. 217; p. 599.
- Signaling system for automobiles or the like. E. T. Baner. No. 1,156,453; Oct. 12; Gaz. vol. 219; p. 418.
- Signaling system for party-lines. Selective. E. B. Craft. No. 1,128,857; Feb. 16; Gaz. vol. 211; p. 855.
- Signaling system for train-despatching. G. Brown. No. 1,131,673; Mar. 16; Gaz. vol. 212; p. 704.
- Signaling system. Light. W. Churchill. No. 1,126,705; Feb. 2; Gaz. vol. 211; p. 13.
- Signaling system, particularly for artillery purposes. P. Kaminsky. No. 1,124,913; Jan. 12; Gaz. vol. 210; p. 645.
- Signaling system. Selective. J. P. C. Boswau. No. 1,163,883; Dec. 14; Gaz. vol. 221; p. 447.
- Signaling system. Selective. J. C. Field. No. 1,125,997; Jan. 26; Gaz. vol. 210; p. 1099.
- Signaling system. Selective. J. C. Field. No. 1,127,876; Feb. 9; Gaz. vol. 211; p. 466.
- Signaling system. Selective. E. R. Gill. (Reissue.) No. 1,140,100; Nov. 16; Gaz. vol. 220; p. 1004.
- Signaling system. Selective. P. N. Hill. No. 1,136,337; Apr. 20; Gaz. vol. 213; p. 880.
- Signaling system. Selective. R. N. Hill. No. 1,148,319; July 27; Gaz. vol. 216; p. 1241.
- Signaling system. Selective. J. A. Hulit. No. 1,157,396; Oct. 19; Gaz. vol. 219; p. 780.
- Signaling system. Selective. E. E. Kleinschmidt. No. 1,133,291; Mar. 30; Gaz. vol. 212; p. 1377.
- Signaling system. Selective. E. E. Kleinschmidt. No. 1,140,378; May 25; Gaz. vol. 214; p. 1042.
- Signaling system. Selective. O. M. Leich. No. 1,160,294; Nov. 16; Gaz. vol. 220; p. 747.
- Signaling system. Traffic. E. W. Kelley. No. 1,132,186; Mar. 16; Gaz. vol. 212; p. 890.
- Signaling to and automatically stopping running trains. Device for. O. Kropp. No. 1,151,194; Aug. 24; Gaz. vol. 217; p. 1179.
- Signaling. Transmitting apparatus for electrical. L. M. Potts. No. 1,135,322; Apr. 13; Gaz. vol. 213; p. 483.
- Signaling. Transmitting apparatus for submarine. J. Schiessler. No. 1,152,661; Sept. 7; Gaz. vol. 218; p. 104.
- Signature-collecting mechanism. J. C. Theberath. No. 1,149,546; Aug. 10; Gaz. vol. 217; p. 480.
- Signature-conveying and wire-stitching machine. C. A. Juengst. (Reissue.) No. 1,396,7; Aug. 24; Gaz. vol. 217; p. 1307.
- Signature-gatherer. C. A. Cheshire. No. 1,147,481; July 20; Gaz. vol. 216; p. 918.
- Signature-gathering machines. Adjustable jogging device for. A. Gullberg and C. L. Smith. No. 1,125,310; Jan. 19; Gaz. vol. 210; p. 822.
- Signature-gathering or other machines. Delivery mechanism for. C. A. Juengst. No. 1,126,026; Jan. 26; Gaz. vol. 210; p. 1109.
- Signature-handling mechanism. C. Gitzendanner. No. 1,142,417; June 8; Gaz. vol. 215; p. 506.
- Signature-machine. C. F. Millman. No. 1,158,068; Oct. 26; Gaz. vol. 219; p. 1077.
- Signature machine. Multiple. W. F. Williams. No. 1,131,451; Mar. 9; Gaz. vol. 212; p. 592.
- Signatures for inseting. Opening folded. J. J. Miller. No. 1,124,782; Jan. 12; Gaz. vol. 210; p. 599.
- Silage. Storing and removing. R. T. Hosking. No. 1,150,119; Aug. 17; Gaz. vol. 217; p. 748.
- Silencer. H. Humm. No. 1,127,250; Feb. 2; Gaz. vol. 211; p. 206.
- Silencer. G. Roubeau. No. 1,151,400; Aug. 24; Gaz. vol. 217; p. 1247.
- Silicate of soda or the like. Clarifying liquid. J. G. Vail and J. D. Carter. No. 1,132,640; Mar. 23; Gaz. vol. 212; p. 1105.
- Silicates containing potassium and aluminum. Decomposing natural. S. Peacock. No. 1,129,224; Feb. 23; Gaz. vol. 211; p. 1020.
- Silicon carbonitrid. Producing. S. Peacock. No. 1,129,507; Feb. 23; Gaz. vol. 211; p. 1120.
- Silicon compounds and by-products. Making. S. Peacock. No. 1,129,506; Feb. 23; Gaz. vol. 211; p. 1119.
- Silk feltable. Making. G. Diesser. No. 1,156,983; Oct. 19; Gaz. vol. 219; p. 634.
- Silk. Making artificial. B. Loewe. No. 1,151,487; Aug. 24; Gaz. vol. 217; p. 1276.
- Silk. Mechanism for producing artificial. H. C. Whritner. No. 1,155,777; Oct. 5; Gaz. vol. 219; p. 157.
- Silk stuffs. Machine for dressing or finishing. E. Schneebelen. No. 1,130,846; Mar. 9; Gaz. vol. 212; p. 384.
- Silo. V. C. Archer. No. 1,125,249; Jan. 19; Gaz. vol. 210; p. 801.
- Silo. T. E. Bacus. No. 1,125,439; Jan. 19; Gaz. vol. 210; p. 869.
- Silo. J. Bauerle. No. 1,143,164; June 15; Gaz. vol. 215; p. 804.
- Silo. G. C. Blair. No. 1,128,576; Feb. 16; Gaz. vol. 211; p. 758.
- Silo. F. W. Cram. No. 1,137,842; May 4; Gaz. vol. 214; p. 42.
- Silo. J. E. Cronkhite. No. 1,147,378; July 20; Gaz. vol. 216; p. 881.
- Silo. O. W. Daviee. No. 1,125,070; Jan. 19; Gaz. vol. 210; p. 736.
- Silo. J. B. Fair. No. 1,162,995; Dec. 7; Gaz. vol. 221; p. 91.
- Silo. C. L. Flynn. No. 1,130,894; Mar. 9; Gaz. vol. 212; p. 401.
- Silo. A. M. Griffin. No. 1,145,306; July 6; Gaz. vol. 216; p. 115.
- Silo. T. Gunter. No. 1,145,891; July 13; Gaz. vol. 216; p. 339.
- Silo. A. G. Hague. No. 1,143,954; June 22; Gaz. vol. 215; p. 1102.
- Silo. H. B. Hamilton. No. 1,137,611; Apr. 27; Gaz. vol. 213; p. 1371.
- Silo. O. Harstad. No. 1,154,511; Sept. 21; Gaz. vol. 218; p. 825.
- Silo. E. E. Hinchliff. No. 1,138,869; May 11; Gaz. vol. 214; p. 442.
- Silo. T. S. Holland. No. 1,129,677; Feb. 23; Gaz. vol. 211; p. 1177.
- Silo. H. W. Hollis. No. 1,148,320; July 27; Gaz. vol. 216; p. 1242.
- Silo. A. R. MacCallum and M. H. Eggleston. No. 1,130,307; Mar. 2; Gaz. vol. 212; p. 161.
- Silo. H. P. McFarland. No. 1,145,202; July 6; Gaz. vol. 216; p. 79.
- Silo. J. S. Moad. No. 1,164,843; Dec. 21; Gaz. vol. 221; p. 824.
- Silo. E. F. Schlichter. No. 1,147,447; July 20; Gaz. vol. 216; p. 906.
- Silo. J. R. Shoupe. No. 1,131,798; Mar. 16; Gaz. vol. 212; p. 750.
- Silo. F. W. Smith. No. 1,135,143; Apr. 13; Gaz. vol. 213; p. 423.
- Silo. C. J. Stahly. No. 1,137,676; Apr. 27; Gaz. vol. 213; p. 1391.
- Silo. C. J. Stahly. No. 1,160,006; Nov. 9; Gaz. vol. 220; p. 594.
- Silo. W. B. Starr. No. 1,150,232; Aug. 17; Gaz. vol. 217; p. 789.
- Silo. T. R. Stoneburner. No. 1,164,235; Dec. 14; Gaz. vol. 221; p. 568.
- Silo. W. J. Topliff. No. 1,151,421; Aug. 24; Gaz. vol. 217; p. 1254.
- Silo. B. S. Williams. No. 1,129,436; Feb. 23; Gaz. vol. 211; p. 1095.
- Silo. G. P. Youmans. No. 1,151,644; Aug. 31; Gaz. vol. 217; p. 1378.
- Silo-anchor. W. E. Small. No. 1,165,029; Dec. 21; Gaz. vol. 221; p. 887.
- Silo and building-tiles therefor. E. Babb. No. 1,164,055; Dec. 14; Gaz. vol. 221; p. 508.
- Silo-block former. R. A. Chrissinger. No. 1,147,679; July 20; Gaz. vol. 216; p. 987.
- Silo. Bottom-discharge. W. Craine. No. 1,165,760; Dec. 28; Gaz. vol. 221; p. 1183.
- Silo-bracing. F. J. Oberer. No. 1,132,609; Mar. 23; Gaz. vol. 212; p. 1093.
- Silo-bracing device. T. M. Hamilton. No. 1,152,174; Aug. 31; Gaz. vol. 217; p. 1561.
- Silo construction. W. L. Beltz. No. 1,134,663; Apr. 6; Gaz. vol. 213; p. 212.
- Silo construction. A. J. Harris. No. 1,163,915; Dec. 14; Gaz. vol. 221; p. 458.

- Silo-door. C. S. Brown. No. 1,145,550; July 6; Gaz. vol. 216; p. 201.
- Silo-door. C. C. Fouts. No. 1,141,703; June 1; Gaz. vol. 215; p. 218.
- Silo-door. J. H. Hall. No. 1,145,766; July 6; Gaz. vol. 216; p. 277.
- Silo-door construction. J. Pascoe. No. 1,126,653; Jan. 26; Gaz. vol. 210; p. 1338.
- Silo-door fastening. E. E. Hawkins. No. 1,132,774; Mar. 23; Gaz. vol. 212; p. 1154.
- Silo-door mounting. E. H. Singers. No. 1,145,519; July 6; Gaz. vol. 216; p. 190.
- Silo-elevator. W. E. Zick. No. 1,164,565; Dec. 14; Gaz. vol. 221; p. 684.
- Silo-filler. I. W. Kelly. No. 1,132,946; Mar. 23; Gaz. vol. 212; p. 1218.
- Silo-heating system. H. E. Stoik and J. E. Fish. No. 1,166,274; Dec. 28; Gaz. vol. 221; p. 1367.
- Silo hoisting apparatus. H. Santrock. No. 1,138,322; May 4; Gaz. vol. 214; p. 212.
- Silo-mold. H. H. Binger. No. 1,160,131; Nov. 16; Gaz. vol. 220; p. 691.
- Silo-mold. J. Kruzick. No. 1,154,783; Sept. 28; Gaz. vol. 218; p. 947.
- Silo-roof. J. J. Houtz and W. L. Harris. No. 1,153,082; Sept. 7; Gaz. vol. 218; p. 254.
- Silo-roof. C. De Jonge. No. 1,132,706; Mar. 23; Gaz. vol. 212; p. 1128.
- Silo-roof construction. G. S. Duffin. No. 1,161,115; Nov. 23; Gaz. vol. 220; p. 1083.
- Silo, Sheet-metal. A. A. Kramer. No. 1,127,643; Feb. 9; Gaz. vol. 211; p. 380.
- Silo-stave mold. M. G. Edington and C. W. Campbell. No. 1,125,986; Jan. 26; Gaz. vol. 210; p. 1095.
- Silos and the like, Door for. E. A. Brandenburg. No. 1,162,022; Nov. 30; Gaz. vol. 220; p. 1449.
- Silos, &c., Discharge means for. E. J. Vasey. No. 1,127,324; Feb. 2; Gaz. vol. 211; p. 230.
- Silos, Elevating feed-trough for pit-. N. D. Williams. No. 1,145,049; July 6; Gaz. vol. 216; p. 27.
- Silos, Expansion-ring for wood-stave. S. M. Foreman. No. 1,136,000; Apr. 20; Gaz. vol. 213; p. 762.
- Silos, Extension and roof for. L. S. Nafziger. No. 1,124,057; Jan. 5; Gaz. vol. 210; p. 291.
- Silos, Interior bracing for. H. W. Galbraith. No. 1,151,870; Aug. 31; Gaz. vol. 217; p. 1457.
- Silos, Interior bracing of. H. W. Galbraith. No. 1,151,871; Aug. 31; Gaz. vol. 217; p. 1458.
- Silver glycocholate readily soluble in water and making same, Compound of. K. Kautzsch. No. 1,161,867; Nov. 30; Gaz. vol. 220; p. 1394.
- Silver glycocholate readily soluble in water, Compound of. K. Kautzsch. No. 1,161,866; Nov. 30; Gaz. vol. 220; p. 1394.
- Silver ores, Treating cobalt-. W. Phillips. No. 1,127,506; Feb. 9; Gaz. vol. 211; p. 336.
- Silvering apparatus. F. W. Bartlett. No. 1,135,653; Apr. 13; Gaz. vol. 213; p. 600.
- Simplex rod-slip. J. B. Dunlap and W. D. Bryan. No. 1,153,772; Sept. 14; Gaz. vol. 218; p. 536.
- Singeing-burner, Adjustable. W. W. Kemp and W. H. Van Horn. No. 1,135,813; Apr. 13; Gaz. vol. 213; p. 655.
- Single-interlock machines, Feeding mechanism for. R. G. Woodward. No. 1,123,641; Jan. 5; Gaz. vol. 210; p. 152.
- Single-phase motor. O. S. More and L. G. Long. No. 1,145,501; July 6; Gaz. vol. 216; p. 184.
- Single-trigger mechanism. H. Moritz, J. J. Koelsch, and F. Koehn. No. 1,145,502; July 6; Gaz. vol. 216; p. 184.
- Sink, Kitchen-. M. Nemec. No. 1,134,696; Apr. 6; Gaz. vol. 213; p. 224.
- Sinks, washtrubs, and the like, Attachment for. J. H. Ryder. No. 1,152,552; Sept. 7; Gaz. vol. 218; p. 64.
- Sinker-wheel mechanism. W. T. Barratt. No. 1,140,098; May 18; Gaz. vol. 214; p. 912.
- Sintering apparatus. S. A. Krom. No. 1,125,125; Jan. 19; Gaz. vol. 210; p. 755.
- Siphon attachment. F. K. Hyde. No. 1,137,488; Apr. 27; Gaz. vol. 213; p. 1330.
- Siphon-filling apparatus, Automatic. E. A. Benisch. No. 1,162,741; Dec. 7; Gaz. vol. 221; p. 4.
- Siphon, Flush-. M. H. Greeson. No. 1,150,672; Aug. 17; Gaz. vol. 217; p. 942.
- Siphon for aerated liquids. M. Fiedler. No. 1,130,158; Mar. 2; Gaz. vol. 212; p. 110.
- Siphon for flush-tanks. J. W. Berry. No. 1,128,575; Feb. 16; Gaz. vol. 211; p. 758.
- Siphon-head. C. De Lukacsevics. No. 1,124,927; Jan. 12; Gaz. vol. 210; p. 650.
- Siphon-head. C. De Lukacsevics. No. 1,151,447; Aug. 24; Gaz. vol. 217; p. 1262.
- Siphon-head. A. A. Pratt and J. Zollinger. No. 1,137,530; Apr. 27; Gaz. vol. 213; p. 1344.
- Siphon, Irrigating-. F. A. Clevenger. No. 1,131,823; Mar. 16; Gaz. vol. 212; p. 759.
- Siphon, Liquid-. H. C. Alger. No. 1,127,387; Feb. 9; Gaz. vol. 211; p. 292.
- Siphon-priming device. G. F. Laughlin. No. 1,127,460; Feb. 9; Gaz. vol. 211; p. 320.
- Siren. H. Hecht. No. 1,143,389; June 15; Gaz. vol. 215; p. 886.
- Siren, Water-. H. Hecht. No. 1,143,703; June 22; Gaz. vol. 215; p. 1016.
- Siren, Water-. H. Hecht. No. 1,162,719; Nov. 30; Gaz. vol. 220; p. 1686.
- Sizing apparatus. H. W. Hardinge. No. 1,149,826; Aug. 10; Gaz. vol. 217; p. 583.
- Sizing or volumetric grading materials, Apparatus for. C. L. McKesson and B. F. Rice. No. 1,127,469; Feb. 9; Gaz. vol. 211; p. 323.
- Sizing or volumetric grading of materials, Apparatus for. C. L. McKesson and B. F. Rice. No. 1,135,123; Apr. 13; Gaz. vol. 213; p. 415.
- Skate. H. H. Bowman. No. 1,153,890; Sept. 21; Gaz. vol. 218; p. 614.
- Skate. W. B. Harrell. No. 1,154,510; Sept. 21; Gaz. vol. 218; p. 824.
- Skate. M. B. Reach. No. 1,123,593; Jan. 5; Gaz. vol. 210; p. 135.
- Skate. K. Schultz. No. 1,157,049; Oct. 19; Gaz. vol. 219; p. 657.
- Skate attachment. E. Fordice. No. 1,141,454; June 1; Gaz. vol. 215; p. 131.
- Skate attachment. J. N. Hauch. No. 1,143,624; June 22; Gaz. vol. 215; p. 970.
- Skate-clamp. L. W. Barker. No. 1,153,993; Sept. 21; Gaz. vol. 218; p. 647.
- Skate, Combined ice and snow. O. F. Christiansen. No. 1,159,897; Nov. 9; Gaz. vol. 220; p. 556.
- Skate, Cycle-. J. D. Jones. No. 1,144,134; June 22; Gaz. vol. 215; p. 1167.
- Skate, Demountable and adjustable. J. Soty. No. 1,142,855; June 15; Gaz. vol. 215; p. 695.
- Skate, Hockey-. W. F. Reach. No. 1,130,335; Mar. 2; Gaz. vol. 212; p. 171.
- Skate, Ice-. W. D. Crawford. No. 1,129,075; Feb. 23; Gaz. vol. 211; p. 968.
- Skate, Ice-. N. G. Tuller and A. M. Rasmussen. No. 1,143,868; June 22; Gaz. vol. 215; p. 1072.
- Skate, Motor-. J. Felley. No. 1,164,798; Dec. 21; Gaz. vol. 221; p. 807.
- Skate, Roller-. M. Finklestein. No. 1,154,300; Sept. 21; Gaz. vol. 218; p. 753.
- Skate, Roller-. E. E. Hardy. No. 1,152,813; Sept. 7; Gaz. vol. 218; p. 159.
- Skate, Roller-. F. Kratky. No. 1,127,900; Feb. 9; Gaz. vol. 211; p. 476.
- Skate, Roller-. G. P. Schmidt. No. 1,134,962; Apr. 6; Gaz. vol. 213; p. 313.
- Skate, Roller-coaster. J. C. Tutt. No. 1,138,263; May 4; Gaz. vol. 214; p. 189.
- Skate-runner. T. L. Parmeter. No. 1,129,503; Feb. 23; Gaz. vol. 211; p. 1119.
- Skate wheel, Roller-. B. E. Clark. No. 1,130,794; Mar. 9; Gaz. vol. 212; p. 366.
- Skates, Ankle-brace for. D. T. McLoney. No. 1,140,473; May 25; Gaz. vol. 214; p. 1078.
- Skee or runner. H. F. Knapp. No. 1,146,504; July 13; Gaz. vol. 216; p. 558.
- Skees, Toe-strap and stirrup for. M. A. Strand. No. 1,164,886; Dec. 21; Gaz. vol. 221; p. 838.
- Skelp-charging apparatus. S. C. Coey. No. 1,130,708; Mar. 9; Gaz. vol. 212; p. 337.
- Skewer, Cop-. C. S. Cate. No. 1,151,864; Aug. 31; Gaz. vol. 217; p. 1455.
- Skewer-mounting. H. G. Kimball. No. 1,137,983; May 4; Gaz. vol. 214; p. 91.
- Skid. J. P. Frank. No. 1,154,986; Sept. 28; Gaz. vol. 218; p. 1015.
- Skid. G. W. Nicolaus. No. 1,158,829; Nov. 2; Gaz. vol. 220; p. 149.
- Skids of skidways, Means for cleaning and oiling the. F. W. Kolb. No. 1,137,867; May 4; Gaz. vol. 214; p. 50.
- Skimmer, Milk-. D. E. Hubbell. No. 1,142,041; June 8; Gaz. vol. 215; p. 372.
- Skimmer, Boiler-. N. Schreiber. No. 1,152,918; Sept. 7; Gaz. vol. 218; p. 197.
- Skimmer, Syrup-. W. M. Clanton, Jr. No. 1,129,789; Feb. 23; Gaz. vol. 211; p. 1215.
- Skins, Machine for applying toggles to. W. R. Sutherland. No. 1,138,328; May 4; Gaz. vol. 214; p. 214.
- Skins, Machine for applying toggles to. W. R. Sutherland. No. 1,138,329; May 4; Gaz. vol. 214; p. 214.
- Skirt. E. J. Segrell. No. 1,147,897; July 27; Gaz. vol. 216; p. 1089.
- Skirt and waist holder. N. Beck. No. 1,134,176; Apr. 6; Gaz. vol. 213; p. 34.
- Skirt-gage. J. T. Cantwell. No. 1,146,401; July 13; Gaz. vol. 216; p. 519.
- Skirt-hanger. L. Lynch. No. 1,142,719; June 8; Gaz. vol. 215; p. 607.
- Skirt, Lady's. H. Stoff. No. 1,126,119; Jan. 26; Gaz. vol. 210; p. 1144.
- Skirt-marker. C. B. Lemon. No. 1,155,251; Sept. 28; Gaz. vol. 218; p. 1106.
- Skirt-marker. K. C. McLaren. No. 1,156,365; Oct. 12; Gaz. vol. 219; p. 386.
- Skirt-marker. H. E. Town. No. 1,153,733; Sept. 14; Gaz. vol. 218; p. 523.
- Skirt-marking device. A. Lichtner. No. 1,131,253; Mar. 9; Gaz. vol. 212; p. 523.

Alphabetical list of inventions—Continued.

- Skirt-measuring device. M. C. Taylor. No. 1,155,690; Oct. 5; Gaz. vol. 219; p. 127.
- Skirt or dress, Maternity. B. Schiff. No. 1,128,906; Feb. 16; Gaz. vol. 211; p. 874.
- Skirt, Riding-. P. Nardi. No. 1,164,382; Dec. 14; Gaz. vol. 221; p. 621.
- Skirt-supporter. M. M. Sey. No. 1,160,536; Nov. 16; Gaz. vol. 220; p. 832.
- Skiving-machine. E. E. Allen. No. 1,131,589; Mar. 9; Gaz. vol. 212; p. 639.
- Skiving-machine. H. A. Brown. No. 1,139,480; May 18; Gaz. vol. 214; p. 692.
- Skiving-machine. N. V. Dyer. No. 1,138,645; May 11; Gaz. vol. 214; p. 360.
- Skiving-machine. F. L. Harmon. No. 1,161,860; Nov. 30; Gaz. vol. 220; p. 1392.
- Skiving-machine. M. Nally. No. 1,141,481; June 1; Gaz. vol. 215; p. 142.
- Skiving-machine. R. S. Power. No. 1,162,395; Nov. 30; Gaz. vol. 220; p. 1578.
- Skiving-machine. J. H. Stewart. No. 1,142,281; June 8; Gaz. vol. 215; p. 457.
- Skylight. W. H. Brooks. No. 1,158,626; Nov. 2; Gaz. vol. 220; p. 77.
- Skylight. E. R. Leonard. No. 1,133,384; Mar. 30; Gaz. vol. 212; p. 1410.
- Skylight. A. Shuman. No. 1,156,251; Oct. 12; Gaz. vol. 219; p. 345.
- Skylight, Puttyless. M. R. Loechel. No. 1,127,905; Feb. 9; Gaz. vol. 211; p. 477.
- Skylights and like structures, Supporting and glazing construction for. T. I. Duffy. No. 1,156,351; Oct. 12; Gaz. vol. 219; p. 380.
- Slack-adjuster. J. E. Anger. No. 1,151,328; Aug. 24; Gaz. vol. 217; p. 1223.
- Slack-adjuster. E. N. Luburg. No. 1,162,180; Nov. 30; Gaz. vol. 220; p. 1505.
- Slack-adjuster. E. N. Luburg. No. 1,163,550; Dec. 7; Gaz. vol. 221; p. 284.
- Slack-adjuster. W. G. Price. No. 1,157,721; Oct. 26; Gaz. vol. 219; p. 956.
- Slack-adjuster. H. Rose. No. 1,144,866; June 29; Gaz. vol. 215; p. 1448.
- Slack-adjuster, Automatic. C. O. Anderson. No. 1,147,777; July 27; Gaz. vol. 216; p. 1046.
- Slack-take-up mechanism. A. J. Kirstin. No. 1,143,713; June 22; Gaz. vol. 215; p. 1019.
- Slack-take-up mechanism. A. J. Kirstin. No. 1,148,906; Aug. 3; Gaz. vol. 217; p. 150.
- Slag from furnaces and means for carrying out the same, Process for removing. K. P. zu Loewenstein. No. 1,128,255; Feb. 9; Gaz. vol. 211; p. 597.
- Slag in furnaces, Prevention of the deposition of. R. Grabowsky. No. 1,147,163; July 20; Gaz. vol. 216; p. 805.
- Slag into a highly-porous mass, Converting molten. C. H. Schol. No. 1,163,605; Dec. 7; Gaz. vol. 221; p. 305.
- Slags, Methods of and apparatus for recovering the heat of. C. Semmler. No. 1,146,962; July 20; Gaz. vol. 216; p. 736.
- Slasher. G. E. Spofford. No. 1,130,642; Mar. 2; Gaz. vol. 212; p. 279.
- Slat-holder. P. H. Stedman. No. 1,143,657; June 22; Gaz. vol. 215; p. 1001.
- Slate. F. J. Wohlcke and J. H. McLellan. No. 1,136,575; Apr. 20; Gaz. vol. 213; p. 966.
- Slate-lorry. D. F. Lepley. No. 1,129,353; Feb. 23; Gaz. vol. 211; p. 1065.
- Sled. R. H. Hamel. No. 1,156,527; Oct. 12; Gaz. vol. 219; p. 444.
- Sled. L. R. and A. P. Bourdon. No. 1,160,569; Nov. 16; Gaz. vol. 220; p. 845.
- Sled. E. L. Caffisch. No. 1,135,256; Apr. 13; Gaz. vol. 213; p. 460.
- Sled. J. Makl. No. 1,150,378; Aug. 17; Gaz. vol. 217; p. 840.
- Sled. K. Staub. No. 1,127,307; Feb. 2; Gaz. vol. 211; p. 225.
- Sled. A. Teichler. No. 1,124,973; Jan. 12; Gaz. vol. 210; p. 667.
- Sled and coaster, Convertible. W. H. Fox. No. 1,135,889; Apr. 13; Gaz. vol. 213; p. 682.
- Sled attachment, Disk-. L. A. Gaume. No. 1,159,660; Nov. 9; Gaz. vol. 220; p. 469.
- Sled, Bob-. C. Egeland. No. 1,156,591; Oct. 12; Gaz. vol. 219; p. 466.
- Sled-brake. J. A. Armstrong and E. Olsen. No. 1,164,905; Dec. 21; Gaz. vol. 221; p. 844.
- Sled-brake. C. Oak. No. 1,137,163; Apr. 27; Gaz. vol. 213; p. 1212.
- Sled-brake, Automatic. A. Platzek. No. 1,136,716; Apr. 20; Gaz. vol. 213; p. 1016.
- Sled, Convertible. E. E. Whitman. No. 1,152,774; Sept. 7; Gaz. vol. 218; p. 144.
- Sled, Motor-. P. W. Palm. No. 1,127,501; Feb. 9; Gaz. vol. 211; p. 335.
- Sled, Motor-. E. Tange. No. 1,151,306; Aug. 24; Gaz. vol. 217; p. 1217.
- Sled-plate. S. A. Soule. No. 1,130,115; Mar. 2; Gaz. vol. 212; p. 95.
- Sled, Power-driven. D. Pinkel. No. 1,158,407; Oct. 26; Gaz. vol. 219; p. 1197.
- Sled-runner. F. Hornquist. No. 1,134,612; Apr. 6; Gaz. vol. 213; p. 193.
- Sled-runners, Means for connecting the front ends of. O. Pearson. No. 1,127,673; Feb. 9; Gaz. vol. 211; p. 390.
- Sled-runners, Means for connecting the front ends of. O. Pearson. No. 1,144,563; June 29; Gaz. vol. 215; p. 1343.
- Sled, Steerable. F. I. Bennett. No. 1,160,130; Nov. 16; Gaz. vol. 220; p. 691.
- Sleds, Wheeled attachment for. E. R. Bule. No. 1,123,676; Jan. 5; Gaz. vol. 210; p. 163.
- Sledge, Motor-. J. Rantasä. No. 1,162,806; Dec. 7; Gaz. vol. 221; p. 26.
- Sleeping-bag. A. G. Newbell. No. 1,159,788; Nov. 9; Gaz. vol. 220; p. 517.
- Sleeping-bag. M. L. Stevenson. No. 1,130,116; Mar. 2; Gaz. vol. 212; p. 95.
- Sleeve. H. Kaminkowitz. No. 1,140,685; May 25; Gaz. vol. 214; p. 1150.
- Sleeve, Adjustable. W. Tutelman. No. 1,157,265; Oct. 19; Gaz. vol. 219; p. 735.
- Sleeve and armet, Detachable. P. J. Nichols. No. 1,149,674; Aug. 10; Gaz. vol. 217; p. 529.
- Sleeve, Garment-. I. F. Farlow. No. 1,147,155; July 20; Gaz. vol. 216; p. 803.
- Sleeve-holder. C. H. Dygert. No. 1,144,113; June 22; Gaz. vol. 215; p. 1160.
- Sleeve-protector. F. B. Conine. No. 1,153,893; Sept. 21; Gaz. vol. 218; p. 614.
- Sleeve-protector, Adjustable. S. Rosenbaum and B. Finkelstein. No. 1,141,656; June 1; Gaz. vol. 215; p. 203.
- Sleigh. D. A. Crocker. No. 1,127,194; Feb. 2; Gaz. vol. 211; p. 187.
- Sleigh. D. S. Hall. No. 1,134,453; Apr. 6; Gaz. vol. 213; p. 135.
- Sleigh. T. B. True. No. 1,153,735; Sept. 14; Gaz. vol. 218; p. 524.
- Sleigh and wagon, Combined. T. Burke. No. 1,154,370; Sept. 21; Gaz. vol. 218; p. 779.
- Sleigh and wheeled vehicle, Convertible. J. Wisted. No. 1,134,657; Apr. 6; Gaz. vol. 213; p. 210.
- Sleigh, Automobile. B. Erickson. No. 1,156,069; Oct. 12; Gaz. vol. 219; p. 285.
- Sleigh, Automobile. T. H. F. Schwach. No. 1,157,126; Oct. 19; Gaz. vol. 219; p. 684.
- Sleigh, Coasting-. T. W. Conway. No. 1,142,799; June 15; Gaz. vol. 215; p. 676.
- Sleigh, Convertible. P. Kaipainen. No. 1,127,773; Feb. 9; Gaz. vol. 211; p. 429.
- Sleigh, Motor-. O. Jonsson. No. 1,163,411; Dec. 7; Gaz. vol. 221; p. 236.
- Sleigh, Motor-. F. J. Mathews. No. 1,154,423; Sept. 21; Gaz. vol. 218; p. 795.
- Sleigh-motor. K. Neff. No. 1,150,956; Aug. 24; Gaz. vol. 217; p. 1098.
- Sleigh, Motor-driven. J. W. Stobie. No. 1,156,110; Oct. 12; Gaz. vol. 219; p. 299.
- Sleigh-runner, Automobile. C. E. Andersson. No. 1,127,157; Feb. 2; Gaz. vol. 211; p. 174.
- Sleigh-runner for automobiles. Z. H. Caton. No. 1,164,574; Dec. 14; Gaz. vol. 221; p. 687.
- Sleigh-runner for vehicles. S. J. Levy. No. 1,128,698; Feb. 16; Gaz. vol. 211; p. 800.
- Slicer. P. McPherson. No. 1,128,479; Feb. 16; Gaz. vol. 211; p. 725.
- Slicer and seeder, Peach. G. W. Neal. No. 1,129,894; Mar. 2; Gaz. vol. 212; p. 21.
- Slicer, Fruit and vegetable. T. M. Alken. No. 1,156,652; Oct. 12; Gaz. vol. 219; p. 488.
- Slicer, Meat-. J. I. McCormick. No. 1,142,901; June 15; Gaz. vol. 215; p. 712.
- Slicer, Vegetable-. E. Lewis. No. 1,157,013; Oct. 19; Gaz. vol. 219; p. 644.
- Slicer, Vegetable-. C. W. Ott. No. 1,137,017; Apr. 27; Gaz. vol. 213; p. 1160.
- Slicer, Vegetable-. E. L. Walker. No. 1,164,241; Dec. 14; Gaz. vol. 221; p. 570.
- Slicers, Feeding device for pineapple-. J. Hill. No. 1,130,819; Mar. 9; Gaz. vol. 212; p. 374.
- Slicing apparatus. A. Kennedy. No. 1,149,525; Aug. 10; Gaz. vol. 217; p. 472.
- Slicing-machine. T. M. Dansby. No. 1,153,484; Sept. 14; Gaz. vol. 218; p. 436.
- Slicing-machine. T. M. Dansby. No. 1,153,485; Sept. 14; Gaz. vol. 218; p. 436.
- Slicing-machine. A. L. Davis. No. 1,150,812; Aug. 17; Gaz. vol. 217; p. 990.
- Slicing-machine. J. Schmidt. No. 1,151,405; Aug. 24; Gaz. vol. 217; p. 1248.
- Slicing-machine. E. F. Smith. No. 1,155,965; Oct. 5; Gaz. vol. 219; p. 222.
- Slicing-machine. H. Stukart. No. 1,144,507; June 29; Gaz. vol. 215; p. 1324.
- Slicing machine, Bread-. M. Kronfeld. No. 1,132,360; Mar. 16; Gaz. vol. 212; p. 954.
- Slicing-machine-feeding mechanism. H. Fischer. No. 1,157,520; Oct. 19; Gaz. vol. 219; p. 824.
- Slicing machine, Food-. H. P. Holm. No. 1,123,534; Jan. 5; Gaz. vol. 210; p. 116.
- Slicing-machine knife-shield. H. R. Goodfellow. No. 1,163,335; Dec. 7; Gaz. vol. 221; p. 211.

- Slicing machine, Meat. A. L. Gardner. No. 1,152,623; Sept. 7; Gaz. vol. 218; p. 89.
- Slicing-machine meat-guide. G. J. Sayer. No. 1,138,692; May 11; Gaz. vol. 214; p. 377.
- Slicing-machine meat-holder. A. Bond. No. 1,147,923; July 27; Gaz. vol. 216; p. 1099.
- Slicing machines, Feeding mechanism for uppercut apple. F. B. Foley. No. 1,161,466; Nov. 23; Gaz. vol. 220; p. 1210.
- Slidable bracket. P. Stauber. No. 1,132,495; Mar. 16; Gaz. vol. 212; p. 1004.
- Slidably-adjustable bracket. L. C. Dear. No. 1,128,419; Feb. 16; Gaz. vol. 211; p. 703.
- Slide, Spring-. J. H. Pilkington. No. 1,126,855; Feb. 2; Gaz. vol. 211; p. 68.
- Sliding gate. E. G. Hakeman. No. 1,149,823; Aug. 10; Gaz. vol. 217; p. 582.
- Sliding-jaw wrench. T. Wyszyniuk. No. 1,125,788; Jan. 19; Gaz. vol. 210; p. 994.
- Slideway construction. J. B. Sinderson. No. 1,128,274; Feb. 9; Gaz. vol. 211; p. 604.
- Slime separator and classifier. C. Allen. No. 1,147,356; July 20; Gaz. vol. 216; p. 872.
- Slime-thickening apparatus. W. A. Stedman. No. 1,153,722; Sept. 14; Gaz. vol. 218; p. 520.
- Slip-covers to receptacles. Holder for applying. C. T. Small. No. 1,133,330; Mar. 30; Gaz. vol. 212; p. 1390.
- Slip-gear. E. A. Garrand. No. 1,165,772; Dec. 28; Gaz. vol. 221; p. 1187.
- Slip-sheeting machine. D. D. Holben and B. F. Frantz. No. 1,152,090; Aug. 31; Gaz. vol. 217; p. 1533.
- Slipper. I. F. McCamish. No. 1,136,474; Apr. 20; Gaz. vol. 213; p. 930.
- Slipper. H. W. Shinn. No. 1,140,193; May 18; Gaz. vol. 214; p. 944.
- Slipping. Device to prevent. A. Kaszubski. No. 1,142,967; June 15; Gaz. vol. 215; p. 735.
- Slitter and rewinder. S. M. Langston. No. 1,131,146; Mar. 9; Gaz. vol. 212; p. 437.
- Slitters. V. E. Jullien. No. 1,127,448; Feb. 9; Gaz. vol. 211; p. 316.
- Slitting and rewinding machine. J. A. Cameron and G. B. Birch. No. 1,148,146; July 27; Gaz. vol. 216; p. 1180.
- Slitting-machine. F. G. Feeley. No. 1,139,355; May 11; Gaz. vol. 214; p. 610.
- Slitting mechanism. G. L. Cowan. No. 1,134,590; Apr. 6; Gaz. vol. 213; p. 185.
- Silvering-machine. C. A. Clark. No. 1,156,210; Oct. 12; Gaz. vol. 219; p. 332.
- Slot-forming machine. G. J. Luck. No. 1,165,790; Dec. 28; Gaz. vol. 221; p. 1192.
- Slotter, Hand-. E. B. Hoffman. No. 1,160,286; Nov. 16; Gaz. vol. 220; p. 744.
- Slotting-machine. G. Bryar. No. 1,127,180; Feb. 2; Gaz. vol. 211; p. 182.
- Slow-down and sheet-straightening device. R. E. Jones and G. A. Martin. No. 1,135,811; Apr. 13; Gaz. vol. 213; p. 655.
- Slow-down and sheet-straightening mechanism. A. J. Hughes and A. J. Slade, Jr. No. 1,128,877; Feb. 16; Gaz. vol. 211; p. 862.
- Slug-casting machine. D. S. Kennedy. No. 1,157,786; Oct. 26; Gaz. vol. 219; p. 977.
- Slug-trimmer. F. J. Matych. No. 1,164,658; Dec. 21; Gaz. vol. 221; p. 758.
- Slurry-mixing apparatus. A. Schröder. No. 1,137,294; Apr. 27; Gaz. vol. 213; p. 1261.
- Small-arm. P. T. Godsall. No. 1,139,268; May 11; Gaz. vol. 214; p. 581.
- Small-arm. A. H. Hill. No. 1,165,256; Dec. 21; Gaz. vol. 221; p. 968.
- Small-arm, Breech-loading. L. B. Taylor and F. Hughes. No. 1,154,458; Sept. 21; Gaz. vol. 218; p. 808.
- Small-arm, Drop-down. W. Baker. No. 1,125,633; Jan. 19; Gaz. vol. 210; p. 937.
- Small-arm, Hammerless automatic. W. J. Whiting. No. 1,143,472; June 15; Gaz. vol. 215; p. 913.
- Small-arm, Magazine. W. J. Whiting. No. 1,143,471; June 15; Gaz. vol. 215; p. 913.
- Small-arms, Magazine for. J. Eastwick. No. 1,157,654; Oct. 19; Gaz. vol. 219; p. 867.
- Small-arms, Practice apparatus for. H. B. Hollifield. No. 1,130,402; Mar. 2; Gaz. vol. 212; p. 195.
- Smelters and kindred plants, Recovering the waste heat of. C. Semmler. No. 1,151,831; Aug. 31; Gaz. vol. 217; p. 1443.
- Smelting and incinerating. W. R. Heslewood. No. 1,160,509; Nov. 16; Gaz. vol. 220; p. 822.
- Smelting, Duplex. W. M. Johnson and E. W. Hale. No. 1,165,371; Dec. 21; Gaz. vol. 221; p. 1007.
- Smelting-furnace. C. K. Davis. No. 1,165,393; Dec. 28; Gaz. vol. 221; p. 1053.
- Smelting-furnace. T. M. Kekich. No. 1,126,028; Jan. 26; Gaz. vol. 210; p. 1110.
- Smelting-furnace. E. V. Lanyon and F. A. Curnow. No. 1,127,264; Feb. 2; Gaz. vol. 211; p. 211.
- Smelting-furnace. P. Plantinga. No. 1,146,097; July 13; Gaz. vol. 216; p. 413.
- Smelting furnace, Copper-. W. G. Perkins. No. 1,136,834; Apr. 20; Gaz. vol. 213; p. 1058.
- Smelting-furnace, Oil-burning. O. P. Moore. No. 1,153,561; Sept. 14; Gaz. vol. 218; p. 464.
- Smelting furnace, Ore-. G. P. Gibson. No. 1,138,651; May 11; Gaz. vol. 214; p. 362.
- Smelting furnace, Zinc-. J. M. Hyde. No. 1,144,036; June 22; Gaz. vol. 215; p. 1132.
- Smelting iron ore. F. J. Machalske. No. 1,148,700; Aug. 3; Gaz. vol. 217; p. 78.
- Smelting metallic ores. O. Baltin. No. 1,166,171; Dec. 28; Gaz. vol. 221; p. 1328.
- Smelting of sulfid ores, Apparatus for continuous. G. Haglund and A. Grönningstær. No. 1,163,234; Dec. 7; Gaz. vol. 221; p. 175.
- Smelting, Preventing escape of noxious gases in. W. A. Hall. No. 1,133,637; Mar. 30; Gaz. vol. 212; p. 1501.
- Smelting ores. J. H. Klepinger, M. W. Krejčí, and C. R. Kuzell. No. 1,160,621; Nov. 16; Gaz. vol. 220; p. 864.
- Smelting ores. J. H. Klepinger, M. W. Krejčí and C. R. Kuzell. No. 1,164,653; Dec. 21; Gaz. vol. 221; p. 756.
- Smelting sulfid ores. H. L. Doherty. No. 1,150,841; Aug. 17; Gaz. vol. 217; p. 1002.
- Smelting sulfid ores, Preventing the escape of sulfur dioxide in. W. A. Hall. No. 1,134,846; Apr. 6; Gaz. vol. 213; p. 275.
- Smelting zinc. S. Peacock. No. 1,154,802; Sept. 28; Gaz. vol. 218; p. 954.
- Smelting zinc and other ores. J. M. Hyde. No. 1,144,037; June 22; Gaz. vol. 215; p. 1133.
- Smoke and fume condenser. A. Wilder. No. 1,162,325; Nov. 30; Gaz. vol. 220; p. 1555.
- Smoke and gas consumer. W. H. Topley. No. 1,140,544; May 25; Gaz. vol. 214; p. 1103.
- Smoke and gas returning means. J. M. Nye. No. 1,135,913; Apr. 13; Gaz. vol. 213; p. 690.
- Smoke and water tube boiler. W. Polderman, Jr., and F. H. Luchsinger. No. 1,161,726; Nov. 23; Gaz. vol. 220; p. 1298.
- Smoke-conducting pipe. L. W. Pietsch. No. 1,131,159; Mar. 9; Gaz. vol. 212; p. 490.
- Smoke-consumer. C. E. Andersson. No. 1,157,661; Oct. 26; Gaz. vol. 219; p. 935.
- Smoke-consumer. C. Hocker. No. 1,159,028; Nov. 2; Gaz. vol. 220; p. 213.
- Smoke-consumer. H. Kleman. No. 1,139,194; May 11; Gaz. vol. 214; p. 557.
- Smoke-consumer. C. E. and J. W. Netherton. No. 1,162,093; Nov. 30; Gaz. vol. 220; p. 1475.
- Smoke-consumer. G. O'Neil. No. 1,131,944; Mar. 16; Gaz. vol. 212; p. 801.
- Smoke-consumer. G. O'Neill. No. 1,145,504; July 6; Gaz. vol. 216; p. 185.
- Smoke-consumer. O. Olson. No. 1,134,553; Apr. 6; Gaz. vol. 213; p. 172.
- Smoke-consumer. O. A. Schroeder. No. 1,124,066; Jan. 5; Gaz. vol. 210; p. 295.
- Smoke-consumer. S. Smith and H. Langton. No. 1,131,280; Mar. 9; Gaz. vol. 212; p. 533.
- Smoke-consumer. J. E. Sykes. No. 1,128,548; Feb. 16; Gaz. vol. 211; p. 749.
- Smoke-consumer. A. E. Wilson. No. 1,129,151; Feb. 23; Gaz. vol. 211; p. 995.
- Smoke-consuming apparatus. C. A. Phelps. No. 1,165,899; Dec. 28; Gaz. vol. 221; p. 1230.
- Smoke-consuming apparatus for locomotive and other boilers. J. E. and W. R. Price and C. L. Hildreth. No. 1,159,085; Nov. 2; Gaz. vol. 220; p. 233.
- Smoke-consuming boiler. W. C. Gurney. No. 1,163,655; Dec. 14; Gaz. vol. 221; p. 366.
- Smoke-consuming furnace. E. Lane. No. 1,162,736; Nov. 30; Gaz. vol. 220; p. 1692.
- Smoke-consuming furnace. E. Lane. No. 1,165,982; Dec. 28; Gaz. vol. 221; p. 1258.
- Smoke-consuming furnace. C. H. Moore. No. 1,154,877; Sept. 28; Gaz. vol. 218; p. 977.
- Smoke-consuming furnace. H. L. Price and G. J. Cartwright. No. 1,135,842; Apr. 13; Gaz. vol. 213; p. 667.
- Smoke-consuming furnace. E. Stanley. No. 1,136,287; Apr. 20; Gaz. vol. 213; p. 863.
- Smoke, Device for testing the density of. E. P. Roberts. No. 1,151,395; Aug. 24; Gaz. vol. 217; p. 1245.
- Smoke-dispenser. M. Moser. No. 1,128,177; Feb. 9; Gaz. vol. 211; p. 571.
- Smoke-house. O. F. Neff. No. 1,166,146; Dec. 28; Gaz. vol. 221; p. 1319.
- Smoke-house. J. F. Oberle. No. 1,152,965; Sept. 7; Gaz. vol. 218; p. 215.
- Smoke-house and fuel-economizer. E. Flanagan. No. 1,133,118; Mar. 23; Gaz. vol. 212; p. 1280.
- Smoke-indicator. I. J. Babcock. No. 1,135,651; Apr. 13; Gaz. vol. 213; p. 599.
- Smoke-pipe cleaner-head. G. Petrich. No. 1,162,393; Nov. 30; Gaz. vol. 220; p. 1577.
- Smoke-plug. D. McKenzie. No. 1,137,344; Apr. 27; Gaz. vol. 213; p. 1280.
- Smoke-preventer. W. C. Beam. No. 1,131,106; Mar. 9; Gaz. vol. 212; p. 473.
- Smoke-preventer. W. C. Beam. No. 1,131,107; Mar. 9; Gaz. vol. 212; p. 473.
- Smoke-preventer, Automatic. C. J. Arnold and W. P. Rutherford. No. 1,166,307; Dec. 28; Gaz. vol. 221; p. 1378.

Alphabetical list of inventions—Continued.

- Smoke-producing device for routing wild animals. A. M. Ahern. No. 1,140,018; May 18; Gaz. vol. 214; p. 882.
- Smoke-stack attachment. J. T. Sweeney. No. 1,157,060; Oct. 19; Gaz. vol. 219; p. 661.
- Smokeless furnace, Downdraft side-feed. M. E. Herbert. No. 1,132,474; Mar. 16; Gaz. vol. 212; p. 994.
- Smoker's article. J. W. Knoblock. No. 1,152,738; Sept. 7; Gaz. vol. 218; p. 132.
- Smoker's convenience. G. E. Van Dusen. No. 1,152,454; Sept. 7; Gaz. vol. 218; p. 25.
- Smoker's kit. J. Lombardero. No. 1,135,457; Apr. 13; Gaz. vol. 213; p. 530.
- Smoker's pipe. G. C. Hopkins. No. 1,136,422; Apr. 20; Gaz. vol. 213; p. 912.
- Smoker's pipe. T. W. Hurff. No. 1,146,259; July 13; Gaz. vol. 216; p. 470.
- Smoking device. J. R. Roether. No. 1,133,404; Mar. 30; Gaz. vol. 212; p. 1417.
- Smoking-pipe. L. Demuth. No. 1,153,771; Sept. 14; Gaz. vol. 218; p. 535.
- Smoking-pipe. H. H. Ferris. No. 1,135,447; Apr. 13; Gaz. vol. 213; p. 527.
- Smoking-pipe. W. H. Fulton. No. 1,157,771; Oct. 26; Gaz. vol. 219; p. 972.
- Smoking-pipe. W. Hill and L. Gardella. No. 1,157,161; Oct. 19; Gaz. vol. 219; p. 696.
- Smoking-pipe. A. D. Kneuper. No. 1,156,150; Oct. 12; Gaz. vol. 219; p. 313.
- Smoking-pipe. S. E. P. Maticotta. No. 1,147,527; July 20; Gaz. vol. 216; p. 933.
- Smoking-pipe. A. W. Petersohn. No. 1,161,519; Nov. 23; Gaz. vol. 220; p. 1229.
- Smoking-pipe. F. A. Stegner. No. 1,152,128; Aug. 31; Gaz. vol. 217; p. 1546.
- Smoking-pipe and cleaner therefor. F. A. Stegner. No. 1,159,542; Nov. 9; Gaz. vol. 220; p. 426.
- Smoking-pipe tester. M. May. No. 1,124,936; Jan. 12; Gaz. vol. 210; p. 653.
- Smoking set. J. M. Zwickle. No. 1,143,159; June 15; Gaz. vol. 215; p. 802.
- Smoking tube or implement. C. C. Dula. No. 1,144,825; June 29; Gaz. vol. 215; p. 1434.
- Smudging apparatus. P. H. Cherry. No. 1,162,682; Nov. 30; Gaz. vol. 220; p. 1672.
- Smudging device. J. J. Burke and W. F. McPhee. No. 1,162,975; Dec. 7; Gaz. vol. 221; p. 84.
- Snap-fastener. G. C. Snyder. No. 1,166,417; Dec. 28; Gaz. vol. 221; p. 1417.
- Snap-fastener binding. O. Eisenkramer. No. 1,146,696; July 13; Gaz. vol. 216; p. 622.
- Snap-flask. O. R. Berger. No. 1,154,559; Sept. 21; Gaz. vol. 218; p. 841.
- Snap-hook. J. B. Baxter. No. 1,134,310; Apr. 6; Gaz. vol. 213; p. 83.
- Snap-hook. O. Brockman. No. 1,153,022; Sept. 7; Gaz. vol. 218; p. 235.
- Snap-hook. A. C. Campbell. No. 1,157,757; Oct. 26; Gaz. vol. 219; p. 968.
- Snap-hook. R. De Lan. No. 1,133,842; Mar. 30; Gaz. vol. 212; p. 1574.
- Snap-hook. J. Jacobson. No. 1,152,894; Sept. 7; Gaz. vol. 218; p. 190.
- Snap-hook. H. G. Wernimont. No. 1,136,744; Apr. 20; Gaz. vol. 213; p. 1026.
- Snap-hook. Bolt. J. B. Baxter. No. 1,134,311; Apr. 6; Gaz. vol. 213; p. 84.
- Snap-hook for breast and martingale straps. F. A. Graham. No. 1,130,396; Mar. 2; Gaz. vol. 212; p. 193.
- Snap-switch. H. K. Ely. No. 1,162,735; Nov. 30; Gaz. vol. 220; p. 1692.
- Snap-switch. C. Horn. No. 1,133,285; Mar. 30; Gaz. vol. 212; p. 1374.
- Snap-switch. T. L. Parker. No. 1,163,685; Dec. 14; Gaz. vol. 221; p. 376.
- Snap-switch base. W. H. Pratt. No. 1,135,138; Apr. 13; Gaz. vol. 213; p. 421.
- Snatch-block. V. E. Thorp. No. 1,135,740; Apr. 13; Gaz. vol. 213; p. 630.
- Snipe. G. Martinsen. No. 1,127,791; Feb. 9; Gaz. vol. 211; p. 436.
- Snow and the like melting apparatus. S. Savonius. No. 1,125,732; Jan. 19; Gaz. vol. 210; p. 974.
- Snow, Artificial. B. W. Heyman. No. 1,162,060; Nov. 30; Gaz. vol. 220; p. 1462.
- Snow-cleaning machine, Street and highway. H. Carr. No. 1,148,954; Aug. 3; Gaz. vol. 217; p. 166.
- Snow-cutter. M. Peltier. No. 1,126,561; Jan. 26; Gaz. vol. 210; p. 1305.
- Snow-drift preventing device. B. F. Swezey. No. 1,144,393; June 29; Gaz. vol. 215; p. 1286.
- Snow, ice, and sleet from channels and channel-rails of underground railways, Device for removing. F. J. Kroboth. No. 1,130,523; Mar. 2; Gaz. vol. 212; p. 240.
- Snow, Method and apparatus for removing. J. Kenlon. No. 1,150,946; Aug. 24; Gaz. vol. 217; p. 1095.
- Snow-plow. S. J. Allen. No. 1,158,766; Nov. 2; Gaz. vol. 220; p. 125.
- Snow-plow. E. Clayborne. No. 1,127,407; Feb. 9; Gaz. vol. 211; p. 299.
- Snow-plow. R. Dodge. No. 1,151,091; Aug. 24; Gaz. vol. 217; p. 1143.
- Snow-plow. G. W. Gebhart. No. 1,153,776; Sept. 14; Gaz. vol. 218; p. 537.
- Snow-plow. A. Ryan. No. 1,155,099; Sept. 28; Gaz. vol. 218; p. 1057.
- Snow-plow and ballast-spreader. B. F. Lawrence. No. 1,125,568; Jan. 19; Gaz. vol. 210; p. 913.
- Snow-removing apparatus. S. Spigelman. No. 1,147,984; July 27; Gaz. vol. 216; p. 1120.
- Snow-removing device. O. M. Eckardt. No. 1,154,388; Sept. 21; Gaz. vol. 218; p. 785.
- Snow-removing machine. H. Hill. No. 1,131,378; Mar. 9; Gaz. vol. 212; p. 566.
- Snow-scraper. E. G. Wood. No. 1,161,275; Nov. 23; Gaz. vol. 220; p. 1142.
- Snow-shoe. M. W. Rall. No. 1,156,174; Oct. 12; Gaz. vol. 219; p. 321.
- Snuff and the like, Holder for. J. Schwarzbart. No. 1,129,022; Feb. 16; Gaz. vol. 211; p. 915.
- Soap and glass holder. P. J. McKinley. No. 1,134,144; Apr. 6; Gaz. vol. 213; p. 23.
- Soap and the like dispenser, Liquid-. E. E. Bussey. No. 1,129,449; Feb. 23; Gaz. vol. 211; p. 1100.
- Soap, Apparatus for the manufacture of. P. Krebitz. No. 1,126,787; Feb. 2; Gaz. vol. 211; p. 44.
- Soap-bubbler. M. R. Crossman. No. 1,155,470; Oct. 5; Gaz. vol. 219; p. 51.
- Soap containing active oxygen and making it. E. Kochendoerfer. No. 1,153,167; Sept. 7; Gaz. vol. 218; p. 282.
- Soap, &c., Device for dispensing liquid. F. H. Ransom, Jr. No. 1,165,711; Dec. 28; Gaz. vol. 221; p. 1166.
- Soap-dispenser. E. G. Lovering. No. 1,156,164; Oct. 12; Gaz. vol. 219; p. 317.
- Soap-dispenser. W. H. Rose. No. 1,164,754; Dec. 21; Gaz. vol. 221; p. 791.
- Soap dispenser, Automatic liquid-. W. L. Phillips. No. 1,147,185; July 20; Gaz. vol. 216; p. 812.
- Soap dispenser, Liquid-. G. A. Bobrick. No. 1,158,166; Oct. 26; Gaz. vol. 219; p. 1112.
- Soap dispenser, Liquid-. A. D. Hill. No. 1,138,107; May 4; Gaz. vol. 214; p. 136.
- Soap dispenser, Liquid-. N. S. Hillyard. No. 1,152,178; Aug. 31; Gaz. vol. 217; p. 1562.
- Soap-dispensing device, Liquid-. H. B. Nichols. No. 1,165,279; Dec. 21; Gaz. vol. 221; p. 975.
- Soap-dispensing machine. H. R. Evans. No. 1,130,672; Mar. 2; Gaz. vol. 212; p. 290.
- Soap-drainer and brush, Combined. L. Tijou. No. 1,125,211; Jan. 19; Gaz. vol. 210; p. 787.
- Soap-fountain. H. H. Gage. No. 1,157,860; Oct. 26; Gaz. vol. 219; p. 1003.
- Soap-holder. P. P. Pierce. No. 1,146,275; July 13; Gaz. vol. 216; p. 475.
- Soap-holder. L. H. Smith. No. 1,135,857; Apr. 13; Gaz. vol. 213; p. 671.
- Soap powder, Manufacturing. E. C. Kayser. No. 1,153,625; Sept. 14; Gaz. vol. 218; p. 485.
- Soap receptacle or shaker. W. M. Kelso. No. 1,152,819; Sept. 7; Gaz. vol. 218; p. 161.
- Soap sheet and manufacturing the same. J. M. Sibbit. No. 1,125,408; Jan. 19; Gaz. vol. 210; p. 859.
- Soap, Solidifying. W. D. Richardson. No. 1,164,397; Dec. 14; Gaz. vol. 221; p. 627.
- Soaps, Manufacture of hard. J. Leimdörfer. No. 1,138,230; May 4; Gaz. vol. 214; p. 177.
- Sock and stockings. J. M. Nightingale and E. S. Goy. No. 1,144,050; June 22; Gaz. vol. 215; p. 1137.
- Sock, Athletic. S. West. No. 1,138,521; May 4; Gaz. vol. 214; p. 280.
- Sock, Foot-. D. Mitchell. No. 1,141,814; June 1; Gaz. vol. 215; p. 254.
- Socket. W. S. Hadaway, Jr. No. 1,163,658; Dec. 14; Gaz. vol. 221; p. 367.
- Socket-coupling, Self-adjusting. G. E. Walton. No. 1,164,040; Dec. 14; Gaz. vol. 221; p. 503.
- Socket cover and holder, Two-piece. L. W. Andersen. No. 1,125,248; Jan. 19; Gaz. vol. 210; p. 801.
- Socket cover and shade-holder, Electric. G. A. Spurway. No. 1,135,069; Apr. 13; Gaz. vol. 213; p. 397.
- Socket fitting, Separable-husk-. E. H. Freeman. No. 1,145,361; July 6; Gaz. vol. 216; p. 134.
- Socket, Focusing-. G. C. Knauff. No. 1,126,786; Feb. 2; Gaz. vol. 211; p. 43.
- Socket-joint. J. F. Heller. No. 1,154,309; Sept. 21; Gaz. vol. 218; p. 756.
- Socket-shell. L. W. Andersen. No. 1,159,346; Nov. 9; Gaz. vol. 220; p. 357.
- Socket-wrench. L. Mueller. No. 1,155,675; Oct. 5; Gaz. vol. 219; p. 122.
- Socket-wrench, Adjustable. W. G. Butler. No. 1,140,947; May 25; Gaz. vol. 214; p. 1243.
- Sockets, Lock attachment for. R. V. Miller and J. A. Molin. No. 1,131,723; Mar. 16; Gaz. vol. 212; p. 721.
- Soda-ash process. J. H. Hirt. No. 1,141,639; June 1; Gaz. vol. 215; p. 196.
- Soda content of waste liquor, Recovering the. H. K. Moore. No. 1,137,779; May 4; Gaz. vol. 214; p. 20.
- Soda-cup, Sanitary. D. F. Curtin. No. 1,139,018; May 11; Gaz. vol. 214; p. 495.
- Soda-fountain, Portable. C. J. Hunter and E. C. Tweedy. No. 1,153,307; Sept. 14; Gaz. vol. 218; p. 370.
- Soda-fountains and the like, Frame for. J. A. Sebring. No. 1,161,536; Nov. 23; Gaz. vol. 220; p. 1234.

Alphabetical list of inventions—Continued.

- Soda-fountains, Draft-arm for. B. R. Worley and G. H. Kellington. No. 1,156,736; Oct. 12; Gaz. vol. 219; p. 517.
- Soda process, Caustic-. J. H. Hirt. No. 1,152,949; Sept. 7; Gaz. vol. 218; p. 209.
- Sodium aluminate, Solution of. H. Spence and T. J. I. Craig. No. 1,157,436; Oct. 19; Gaz. vol. 219; p. 796.
- Sodium-bisulfite crystals, Drying. H. Howard. No. 1,138,658; May 11; Gaz. vol. 214; p. 365.
- Sodium-carbonate crystals, Apparatus for the manufacture of. M. Spazier. No. 1,127,691; Feb. 9; Gaz. vol. 211; p. 397.
- Sodium-silicate composition. J. G. Vall and J. D. Carter. No. 1,139,741; May 18; Gaz. vol. 214; p. 784.
- Sodium silicate, Dissolving. W. H. Stanton and J. G. Vall. No. 1,138,595; May 4; Gaz. vol. 214; p. 304.
- Sodium sulfid, Making. H. K. Moore. No. 1,130,317; Mar. 2; Gaz. vol. 212; p. 165.
- Solar apparatus. H. E. Willsie. No. 1,130,871; Mar. 9; Gaz. vol. 212; p. 392.
- Solar boiler. T. F. Nichols. No. 1,162,505; Nov. 30; Gaz. vol. 220; p. 1617.
- Solar-heat-utilizing apparatus. H. E. Willsie. No. 1,130,870; Mar. 9; Gaz. vol. 212; p. 392.
- Solder. J. Gayocca. No. 1,161,612; Nov. 23; Gaz. vol. 220; p. 1260.
- Solder-fusing machine. C. W. Graham. No. 1,152,410; Sept. 7; Gaz. vol. 218; p. 10.
- Solder-fusing machine. W. E. Taylor. No. 1,144,510; June 29; Gaz. vol. 215; p. 1325.
- Solder, Self-fusing. L. S. Graves. No. 1,151,679; Aug. 31; Gaz. vol. 217; p. 1389.
- Solder, Strip-. C. P. Tolman. No. 1,162,823; Dec. 7; Gaz. vol. 221; p. 33.
- Soldering device. F. Kandel. No. 1,138,760; May 11; Gaz. vol. 214; p. 403.
- Soldering instrument, Hydrocarbon. J. N. Kučera. No. 1,127,026; Feb. 2; Gaz. vol. 211; p. 129.
- Soldering-iron. A. Barkin. No. 1,129,442; Feb. 23; Gaz. vol. 211; p. 1097.
- Soldering-iron. G. D. King. No. 1,163,157; Dec. 7; Gaz. vol. 221; p. 148.
- Soldering-iron. P. Muney. No. 1,155,433; Oct. 5; Gaz. vol. 219; p. 38.
- Soldering-iron. K. and C. Nikoloff. No. 1,158,540; Nov. 2; Gaz. vol. 220; p. 47.
- Soldering-iron. A. V. Paquette. No. 1,161,960; Nov. 30; Gaz. vol. 220; p. 1428.
- Soldering-iron. A. V. Paquette. No. 1,165,897; Dec. 28; Gaz. vol. 221; p. 1229.
- Soldering-iron. A. R. Paul. No. 1,132,969; Mar. 23; Gaz. vol. 212; p. 1226.
- Soldering-iron. D. E. Rodgers. No. 1,135,050; Apr. 13; Gaz. vol. 213; p. 391.
- Soldering-iron. C. Stichler. No. 1,134,165; Apr. 6; Gaz. vol. 213; p. 29.
- Soldering-iron. J. Swiergocki. No. 1,153,971; Sept. 21; Gaz. vol. 218; p. 640.
- Soldering-iron. S. Trood. No. 1,130,218; Mar. 2; Gaz. vol. 212; p. 131.
- Soldering-iron, Electric. J. G. Clemens. No. 1,142,306; June 8; Gaz. vol. 215; p. 465.
- Soldering-iron, Electrically-heated. L. W. Campbell. No. 1,128,102; Feb. 9; Gaz. vol. 211; p. 545.
- Soldering-iron, Electrically-heated. F. Kuhn and F. E. Shailor. No. 1,154,414; Sept. 21; Gaz. vol. 218; p. 793.
- Soldering-iron holder and heater. T. Brabson. No. 1,162,972; Dec. 7; Gaz. vol. 221; p. 83.
- Soldering-iron, Self-feeding. H. A. Orme. No. 1,152,043; Aug. 31; Gaz. vol. 217; p. 1516.
- Soldering-machine. C. W. Graham. No. 1,152,409; Sept. 7; Gaz. vol. 218; p. 10.
- Soldering-machine. N. Musher. No. 1,131,726; Mar. 16; Gaz. vol. 212; p. 722.
- Soldering machine, Can-. D. D. Ranney. No. 1,133,237; Mar. 23; Gaz. vol. 212; p. 1320.
- Soldering-machines, Can-carrier for. F. P. McColl. No. 1,159,513; Nov. 9; Gaz. vol. 220; p. 417.
- Soldering-tool. N. I. Dryfoos. No. 1,127,970; Feb. 9; Gaz. vol. 211; p. 499.
- Soldier's shield. H. J. Brown. No. 1,156,879; Oct. 19; Gaz. vol. 219; p. 596.
- Sole and heel for boots and shoes. G. W. Murphy. No. 1,146,088; July 13; Gaz. vol. 216; p. 410.
- Sole and heel for boots and shoes, Detachable. H. S. Smith. No. 1,141,844; June 1; Gaz. vol. 215; p. 264.
- Sole and heel for slippers. J. H. Wallace. No. 1,140,639; May 25; Gaz. vol. 214; p. 1135.
- Sole and reinforcing-strip therefor, Inner-. F. L. Corson. No. 1,147,787; July 27; Gaz. vol. 216; p. 1050.
- Sole-channeling machine. F. E. Valois. No. 1,140,086; May 18; Gaz. vol. 214; p. 907.
- Sole, Composite. W. F. Bostock. No. 1,162,445; Nov. 30; Gaz. vol. 220; p. 1596.
- Sole, Composite outer. H. F. Crawford. No. 1,123,698; Jan. 5; Gaz. vol. 210; p. 170.
- Sole cutter, Leather-. E. Cesar. No. 1,150,928; Aug. 24; Gaz. vol. 217; p. 1088.
- Sole-cutting die. J. J. Heys. No. 1,124,739; Jan. 12; Gaz. vol. 210; p. 584.
- Sole, Detachable metallic shoe-. A. N. Ring. No. 1,140,613; May 25; Gaz. vol. 214; p. 1126.
- Sole-edge-burnishing machine. Z. Beaudry. No. 1,162,438; Nov. 30; Gaz. vol. 220; p. 1593.
- Sole-edge protector, Shoe-. T. G. Plant. No. 1,124,328; Jan. 12; Gaz. vol. 210; p. 435.
- Sole fastening and trimming machine. W. T. B. Roberts. No. 1,139,727; May 18; Gaz. vol. 214; p. 779.
- Sole flexing and tempering machine. G. Basler. No. 1,154,961; Sept. 28; Gaz. vol. 218; p. 1007.
- Sole for boots and shoes, Attachable outer. R. M. Withcombe. No. 1,155,982; Oct. 5; Gaz. vol. 219; p. 227.
- Sole for shoes. L. E. Meyer. No. 1,137,159; Apr. 27; Gaz. vol. 213; p. 1212.
- Sole for shoes, Outer. W. Fowler. No. 1,154,623; Sept. 28; Gaz. vol. 218; p. 892.
- Sole for shoes, Skeleton metallic. G. W. Ludwig. No. 1,127,266; Feb. 2; Gaz. vol. 211; p. 212.
- Sole-laying machine. J. A. Brogan. No. 1,146,303; July 13; Gaz. vol. 216; p. 484.
- Sole-leveling machine. A. Bates and J. Gouldbourn. No. 1,123,219; Jan. 5; Gaz. vol. 210; p. 5.
- Sole-leveling machine. A. Eppler. No. 1,165,768; Dec. 28; Gaz. vol. 221; p. 1186.
- Sole-leveling machine. E. I. La Chapelle. No. 1,143,717; June 22; Gaz. vol. 215; p. 1021.
- Sole-leveling machine. E. E. Winkley. No. 1,129,372; Feb. 23; Gaz. vol. 211; p. 1072.
- Sole-leveling machine. E. E. Winkley. No. 1,146,295; July 13; Gaz. vol. 216; p. 481.
- Sole-machine. E. E. Winkley. No. 1,129,370; Feb. 23; Gaz. vol. 211; p. 1071.
- Sole mold, Combination gang-. C. H. Hill. No. 1,136,336; Apr. 20; Gaz. vol. 213; p. 880.
- Sole-molding machine. R. A. Kelley. No. 1,137,633; Apr. 27; Gaz. vol. 213; p. 1378.
- Sole, Pieced outer. C. H. Merrow. No. 1,136,253; Apr. 20; Gaz. vol. 213; p. 850.
- Sole-press. O. F. Westenbiser. No. 1,126,325; Jan. 26; Gaz. vol. 210; p. 1219.
- Sole-press attachment, Shoe-. O. F. Westenbiser. No. 1,160,479; Nov. 16; Gaz. vol. 220; p. 812.
- Sole-pressing machine. H. A. Davenport. No. 1,163,589; Dec. 7; Gaz. vol. 221; p. 299.
- Sole-pressing machine. C. W. Dodge. No. 1,164,794; Dec. 21; Gaz. vol. 221; p. 806.
- Sole-pressing machine. B. F. Mayo. No. 1,146,341; July 13; Gaz. vol. 216; p. 497.
- Sole-pressing machine. E. N. Preble. No. 1,149,290; Aug. 10; Gaz. vol. 217; p. 390.
- Sole, Protected flexible shoe-. A. Anderson. No. 1,134,803; Apr. 6; Gaz. vol. 213; p. 263.
- Sole-protector for boots and shoes. L. F. C. Haas. No. 1,160,162; Nov. 16; Gaz. vol. 220; p. 702.
- Sole rough-rounding and channeling machine. L. E. Johnson. No. 1,149,369; Aug. 10; Gaz. vol. 217; p. 418.
- Sole-rounding machine. C. H. Heather. No. 1,126,209; Jan. 26; Gaz. vol. 210; p. 1178.
- Sole-slashing machine. W. C. Stewart. No. 1,124,182; Jan. 5; Gaz. vol. 210; p. 335.
- Sole, Slipper-. E. A. Bickford. No. 1,129,160; Feb. 23; Gaz. vol. 211; p. 998.
- Sole, Slipper-. E. A. Bickford. No. 1,150,987; Aug. 24; Gaz. vol. 217; p. 1108.
- Sole-slotting machine. J. M. Benjamin. No. 1,153,886; Sept. 21; Gaz. vol. 218; p. 612.
- Sole-straightening means. J. J. Gruenig. No. 1,135,106; Apr. 13; Gaz. vol. 213; p. 409.
- Sole-tempering device, Shoe-. N. C. Bohr. No. 1,158,101; Oct. 26; Gaz. vol. 219; p. 1089.
- Sole-trimming machine. A. Bates. No. 1,129,058; Feb. 23; Gaz. vol. 211; p. 962.
- Soles and heels, Means of attaching. M. L. Severy. No. 1,126,099; Jan. 26; Gaz. vol. 210; p. 1138.
- Soles and the like, Machine for evening and grading cut. E. P. Nichols. No. 1,130,321; Mar. 2; Gaz. vol. 212; p. 166.
- Soles and the like, Machine for evening and grading cut. E. P. Nichols. No. 1,162,387; Nov. 30; Gaz. vol. 220; p. 1575.
- Soles flexible, Machine for rendering. A. Bates. No. 1,126,350; Jan. 26; Gaz. vol. 210; p. 1228.
- Soles, Machine for affixing linings to shoe-. J. A. Kelly. No. 1,134,619; Apr. 6; Gaz. vol. 213; p. 195.
- Soles, Machine for operating on shoe-. E. E. Winkley. No. 1,152,584; Sept. 7; Gaz. vol. 218; p. 76.
- Soles, Making welt-inner-. W. A. Knipe. No. 1,144,420; June 29; Gaz. vol. 215; p. 1295.
- Soles of boots and shoes, Machine for imparting flexibility to the. C. S. Norden. No. 1,150,143; Aug. 17; Gaz. vol. 217; p. 758.
- Soles of boots and shoes, Machine for operating upon the. J. Triem. No. 1,161,086; Nov. 23; Gaz. vol. 220; p. 1073.
- Soles of boots and shoes, Work-support for. W. H. Hooper and T. H. Seely. No. 1,141,462; June 1; Gaz. vol. 215; p. 135.
- Solenoid. R. C. De Costa. No. 1,142,027; June 8; Gaz. vol. 215; p. 368.
- Solid matter when pumping liquids containing same, Means for collecting and discharging. R. H. L. Pennell and J. Orten-Böving. No. 1,161,517; Nov. 23; Gaz. vol. 220; p. 1228.

Alphabetical list of inventions—Continued.

- Solid substances from liquids, Centrifugal machine for separating. G. Jahn. No. 1,124,907; Jan. 12; Gaz. vol. 210; p. 643.
- Solids from liquids, Apparatus for continuously separating. J. V. Dorr. No. 1,140,131; May 18; Gaz. vol. 214; p. 923.
- Solids from liquids, Apparatus for separating. H. E. Wetherbee. No. 1,163,875; Dec. 14; Gaz. vol. 221; p. 444.
- Solids from liquids, Apparatus for the separation of finely-divided. J. V. N. Dorr. No. 1,135,997; Apr. 20; Gaz. vol. 213; p. 761.
- Solids from liquids, Obtaining. O. E. Merrell. No. 1,136,356; Apr. 20; Gaz. vol. 213; p. 887.
- Solids of revolution, Machine for forming. H. N. Motzinger. No. 1,148,611; Aug. 3; Gaz. vol. 217; p. 46.
- Soluble constituents from vegetable, animal, or mineral substances, Apparatus for extracting. H. Kaminski and F. C. Niederhauser, Jr. No. 1,161,135; Nov. 23; Gaz. vol. 220; p. 1091.
- Solutions, Purifying. W. D. Horne. No. 1,150,194; Aug. 17; Gaz. vol. 217; p. 776.
- Solvents, Manufacture of organic. H. Hibbert. No. 1,158,217; Oct. 26; Gaz. vol. 219; p. 1129.
- Solvents, Production of organic. F. Sparre. No. 1,148,258; July 27; Gaz. vol. 216; p. 1218.
- Sonorous body and making same. M. L. Severy. No. 1,144,435; June 29; Gaz. vol. 215; p. 1301.
- Soot-cleaner, Fuel-economizer. F. W. Linaker. No. 1,160,729; Nov. 16; Gaz. vol. 220; p. 904.
- Soot-cleaner, Fuel-economizer. F. W. Linaker. No. 1,160,730; Nov. 16; Gaz. vol. 220; p. 904.
- Sorting and filing case. B. E. McSheehy. No. 1,130,096; Mar. 2; Gaz. vol. 212; p. 88.
- Sorting apparatus. J. W. Winningham. No. 1,148,066; July 27; Gaz. vol. 216; p. 1150.
- Sorting heterogeneous material, Apparatus for. D. R. Bryan. No. 1,139,484; May 18; Gaz. vol. 214; p. 694.
- Sorting-machine. A. Bezner. No. 1,126,359; Jan. 26; Gaz. vol. 210; p. 1231.
- Sound-amplifying device. P. J. Hackett. No. 1,149,822; Aug. 10; Gaz. vol. 217; p. 582.
- Sound and light amplifier. H. J. Farrar. No. 1,156,865; Oct. 12; Gaz. vol. 219; p. 563.
- Sound-box. W. N. Dennison. No. 1,165,395; Dec. 28; Gaz. vol. 221; p. 1054.
- Sound-box. A. C. Diehl. No. 1,156,217; Oct. 12; Gaz. vol. 219; p. 334.
- Sound-box. W. F. Grupe. No. 1,162,351; Nov. 30; Gaz. vol. 220; p. 1564.
- Sound-box. J. Hoffay. No. 1,143,394; June 15; Gaz. vol. 215; p. 887.
- Sound-box. E. H. Kaufman. No. 1,151,472; Aug. 24; Gaz. vol. 217; p. 1271.
- Sound-box. H. C. Miller. No. 1,124,636; Jan. 12; Gaz. vol. 210; p. 548.
- Sound-box. W. E. Parker. No. 1,133,883; Mar. 30; Gaz. vol. 212; p. 1590.
- Sound-box. A. W. Schmidt. No. 1,137,911; May 4; Gaz. vol. 214; p. 65.
- Sound-box and bridge, Combined. H. M. Maine. No. 1,137,649; Apr. 27; Gaz. vol. 213; p. 1383.
- Sound-box cushion. H. C. Miller. No. 1,155,945; Oct. 5; Gaz. vol. 219; p. 215.
- Sound-box, Electropneumatic. C. Stille. No. 1,132,404; Mar. 16; Gaz. vol. 212; p. 970.
- Sound-box mounting. H. Sheble and F. L. Capps. No. 1,132,287; Mar. 16; Gaz. vol. 212; p. 928.
- Sound-box or the like. J. Hoffay. No. 1,144,202; June 22; Gaz. vol. 215; p. 1191.
- Sound-detector. W. Hoppie. No. 1,140,827; May 25; Gaz. vol. 214; p. 1199.
- Sound, Diagnostic. F. J. W. Maguire. No. 1,144,220; June 22; Gaz. vol. 215; p. 1199.
- Sound-indicator. F. W. H. Clay. No. 1,145,554; July 6; Gaz. vol. 216; p. 202.
- Sound-modifier. S. M. Macomber. No. 1,132,729; Mar. 23; Gaz. vol. 212; p. 1137.
- Sound-muffling apparatus. F. C. Mock. No. 1,144,306; June 22; Gaz. vol. 215; p. 1228.
- Sound-preventing means. A. McKnight. No. 1,144,660; June 29; Gaz. vol. 215; p. 1375.
- Sound-producer, Electromagnetic. L. Grubman. No. 1,143,189; June 15; Gaz. vol. 215; p. 814.
- Sound-producing amusement device. E. Gosliner. No. 1,148,451; July 27; Gaz. vol. 216; p. 1285.
- Sound-receiving apparatus used in submarine sound-signaling. J. Gardner. No. 1,129,565; Feb. 23; Gaz. vol. 211; p. 1141.
- Sound-record and other object. J. W. Aylsworth and E. L. Aiken. No. 1,151,849; Aug. 31; Gaz. vol. 217; p. 1450.
- Sound-record and the production thereof. V. H. Emerson. No. 1,145,360; July 6; Gaz. vol. 216; p. 134.
- Sound-record, Disk. J. W. Aylsworth. No. 1,146,387; July 13; Gaz. vol. 216; p. 514.
- Sound-records and other objects, Molding. J. W. Aylsworth. No. 1,146,390; July 13; Gaz. vol. 216; p. 515.
- Sound-records and other objects, Molding duplicate. J. W. Aylsworth. No. 1,146,384; July 13; Gaz. vol. 216; p. 512.
- Sound-records and other objects, Molding duplicate. J. W. Aylsworth. No. 1,146,385; July 13; Gaz. vol. 216; p. 513.
- Sound-records, Ejector or throw-off for. T. H. Macdonald. No. 1,152,529; Sept. 7; Gaz. vol. 218; p. 55.
- Sound-records, Making. J. W. Aylsworth. No. 1,146,388; July 13; Gaz. vol. 216; p. 514.
- Sound-records, Making. A. Smith and C. S. Wickes. No. 1,152,445; Sept. 7; Gaz. vol. 218; p. 22.
- Sound records or blanks, Machine for shaving. T. A. Edison. No. 1,130,156; Mar. 2; Gaz. vol. 212; p. 109.
- Sound-records or the like, Sifting mechanism for making disk. T. Steventon. No. 1,132,806; Mar. 23; Gaz. vol. 212; p. 1167.
- Sound-records, Pressing. M. E. Lyle. No. 1,152,651; Sept. 7; Gaz. vol. 218; p. 100.
- Sound-records, Pressing. C. E. Woods. No. 1,151,642; Aug. 31; Gaz. vol. 217; p. 1378.
- Sound-records, Producing. J. C. Sherman. No. 1,152,562; Sept. 7; Gaz. vol. 218; p. 68.
- Sound-records, Producing tablets for. T. A. Edison. No. 1,146,413; July 13; Gaz. vol. 216; p. 523.
- Sound recording and reproducing machine. J. H. J. Haines. No. 1,158,917; Nov. 2; Gaz. vol. 220; p. 178.
- Sound-recording apparatus. T. A. Edison. No. 1,126,428; Jan. 26; Gaz. vol. 210; p. 1255.
- Sound-recording apparatus. T. A. Edison. No. 1,142,507; June 8; Gaz. vol. 215; p. 538.
- Sound-reproducer. J. J. Harrison and T. H. Hupfer. No. 1,127,765; Feb. 9; Gaz. vol. 211; p. 426.
- Sound-reproducer. A. N. Pierman. No. 1,145,080; July 6; Gaz. vol. 216; p. 39.
- Sound-reproducer. A. N. Pierman. No. 1,148,619; Aug. 3; Gaz. vol. 217; p. 49.
- Sound reproducer and recorder. W. J. Travers. No. 1,131,442; Mar. 9; Gaz. vol. 212; p. 589.
- Sound-reproducer, Electromagnetic. L. Grubman. No. 1,147,016; July 20; Gaz. vol. 216; p. 755.
- Sound-reproducing instrument. A. B. Walker. No. 1,150,563; Aug. 17; Gaz. vol. 217; p. 905.
- Sound-reproducing machine. W. N. Dennison. No. 1,150,346; Aug. 17; Gaz. vol. 217; p. 830.
- Sound-reproducing machine. A. W. Schmidt. No. 1,158,728; Nov. 2; Gaz. vol. 220; p. 111.
- Sound-reproducing machine. C. W. Waller. No. 1,139,387; May 11; Gaz. vol. 214; p. 623.
- Sound-reproducing machine. W. C. Wolfe. No. 1,131,454; Mar. 9; Gaz. vol. 212; p. 593.
- Sound-reproducing machine, Cabinet. H. C. Miller. No. 1,146,342; July 13; Gaz. vol. 216; p. 498.
- Sound-reproducing machine, Cabinet. H. C. Miller. No. 1,159,978; Nov. 9; Gaz. vol. 220; p. 585.
- Sound-reproducing machines, Automatic stop device for. E. O. Klemm. No. 1,152,356; Mar. 16; Gaz. vol. 212; p. 952.
- Sound-reproducing machines, Stylus for. P. Catucci. No. 1,138,354; May 4; Gaz. vol. 214; p. 223.
- Sound-reproducing machines, Stylus or needle for. G. H. Hills. No. 1,149,514; Aug. 10; Gaz. vol. 217; p. 469.
- Sound-reproducing machines, Stylus-positioning and circuit-controlling means for. C. W. Ebeling. No. 1,138,646; May 11; Gaz. vol. 214; p. 361.
- Sound reproducing or recording machine. G. H. Underhill. No. 1,141,672; June 1; Gaz. vol. 215; p. 208.
- Sound reproduction, Method of and means for localizing. E. H. Amet. No. 1,124,580; Jan. 12; Gaz. vol. 210; p. 527.
- Sound transmission and recording. O. E. Kellum. No. 1,137,060; Apr. 27; Gaz. vol. 213; p. 1175.
- Sound-transmitting apparatus. W. Harrison. No. 1,150,267; Aug. 17; Gaz. vol. 217; p. 803.
- Sound-transmitting apparatus. M. E. Pearson. No. 1,134,059; Mar. 30; Gaz. vol. 212; p. 1649.
- Sound-transmitting means, Universal. P. J. Hackett. No. 1,149,979; Aug. 10; Gaz. vol. 217; p. 638.
- Sound-transmitting means, Universal. P. J. Hackett. No. 1,156,867; Oct. 12; Gaz. vol. 219; p. 563.
- Sound-transmitting member. L. Steinberger. No. 1,146,535; July 13; Gaz. vol. 216; p. 568.
- Sound-waves, Instrument for reproducing and magnifying. C. H. Hulbert. No. 1,153,431; Sept. 14; Gaz. vol. 218; p. 416.
- Sounds by means of Hertzian waves, Apparatus for transmitting. W. Harrison. No. 1,139,413; May 11; Gaz. vol. 214; p. 632.
- Sounds, Comparing. C. M. Heck. No. 1,159,023; Nov. 2; Gaz. vol. 220; p. 212.
- Sounds, Locating. H. J. Furber, Jr. No. 1,149,976; Aug. 10; Gaz. vol. 217; p. 637.
- Sounds, Method of and means for translating. R. E. Hall. No. 1,160,072; Nov. 9; Gaz. vol. 220; p. 616.
- Sounds or signals, Apparatus for recording and reproducing. E. E. Clement. No. 1,156,976; Oct. 19; Gaz. vol. 219; p. 631.
- Sounding apparatus, Depth. T. B. Murray. No. 1,126,554; Jan. 26; Gaz. vol. 210; p. 1302.
- Sounding apparatus, Navigational. D. Ballauf. No. 1,153,885; Sept. 21; Gaz. vol. 218; p. 612.
- Sounding-board. G. J. Gaul. No. 1,130,505; Mar. 2; Gaz. vol. 212; p. 234.
- Souvenir, Educational. S. Potts. No. 1,127,276; Feb. 2; Gaz. vol. 211; p. 215.

Alphabetical list of inventions—Continued.

- Sower, Fertilizer-. J. E. Gaston and O. C. Hood. No. 1,125,508; Jan. 19; Gaz. vol. 210; p. 892.
- Sower, Guano-. J. R. Ayers. No. 1,161,370; Nov. 23; Gaz. vol. 220; p. 1177.
- Sower, Seed-. L. E. and J. Despres. No. 1,129,962; Mar. 2; Gaz. vol. 212; p. 44.
- Spacing and punching machine. J. Schmidt. No. 1,145,167; July 6; Gaz. vol. 216; p. 67.
- Spacing-block. S. F. Krupp. No. 1,125,565; Jan. 19; Gaz. vol. 210; p. 912.
- Spacing-frame, Collapsible. D. Bale. No. 1,154,688; Sept. 28; Gaz. vol. 218; p. 916.
- Spacing-machine. N. K. Davis. No. 1,132,169; Mar. 16; Gaz. vol. 212; p. 884.
- Spanner, Adjustable. R. Fleck. No. 1,158,913; Nov. 2; Gaz. vol. 220; p. 176.
- Spanner or wrench. W. Wright. No. 1,154,154; Sept. 21; Gaz. vol. 218; p. 703.
- Spanner-wrench. H. S. Tenneyson. No. 1,158,085; Oct. 26; Gaz. vol. 219; p. 1083.
- Spark-arrester. J. Blanchette. No. 1,126,692; Feb. 2; Gaz. vol. 211; p. 8.
- Spark-arrester. H. R. De Berry and R. H. Neff. No. 1,158,989; Nov. 2; Gaz. vol. 220; p. 201.
- Spark-arrester. C. H. Gregory and M. F. Hamilton. No. 1,135,681; Apr. 13; Gaz. vol. 213; p. 610.
- Spark-arrester. W. R. Hall. No. 1,127,989; Feb. 9; Gaz. vol. 211; p. 505.
- Spark-arrester. L. T. Jack. No. 1,155,733; Oct. 5; Gaz. vol. 219; p. 143.
- Spark-arrester. R. E. Jackson and F. E. Bell. No. 1,123,301; Jan. 5; Gaz. vol. 210; p. 34.
- Spark-arrester. H. L. Needham. No. 1,140,911; May 25; Gaz. vol. 214; p. 1230.
- Spark-arrester. P. L. Raymond. No. 1,138,890; May 11; Gaz. vol. 214; p. 449.
- Spark-arrester. P. C. Saccaggio and F. A. Lagrange. No. 1,125,727; Jan. 19; Gaz. vol. 210; p. 972.
- Spark-arrester, Locomotive. C. H. Vandonk. No. 1,151,069; Aug. 24; Gaz. vol. 217; p. 1135.
- Spark-coil. B. Ames. No. 1,153,005; Sept. 7; Gaz. vol. 218; p. 229.
- Spark-gap. F. H. Kroger. No. 1,132,589; Mar. 23; Gaz. vol. 212; p. 1085.
- Spark-gap. J. E. Seeley. No. 1,162,659; Nov. 30; Gaz. vol. 220; p. 1665.
- Spark-gap, Quenched. R. Pfund. No. 1,161,520; Nov. 23; Gaz. vol. 220; p. 1229.
- Spark-plug. C. K. Austin. No. 1,166,108; Dec. 28; Gaz. vol. 221; p. 1303.
- Spark-plug. C. W. Beck. No. 1,136,996; Apr. 27; Gaz. vol. 213; p. 1152.
- Spark-plug. H. J. Berthold. No. 1,143,026; June 15; Gaz. vol. 215; p. 756.
- Spark-plug. W. S. Brown. No. 1,128,580; Feb. 16; Gaz. vol. 211; p. 759.
- Spark-plug. A. H. Dingman. No. 1,130,494; Mar. 2; Gaz. vol. 212; p. 230.
- Spark-plug. A. Eckhardt. No. 1,159,911; Nov. 9; Gaz. vol. 220; p. 561.
- Spark-plug. W. Ellis. No. 1,125,988; Jan. 26; Gaz. vol. 210; p. 1096.
- Spark-plug. R. J. Farrell and F. A. Ardron. No. 1,139,654; May 18; Gaz. vol. 214; p. 754.
- Spark-plug. W. H. Farrell. No. 1,142,511; June 8; Gaz. vol. 215; p. 539.
- Spark-plug. F. M. Furber. No. 1,126,974; Feb. 2; Gaz. vol. 211; p. 108.
- Spark-plug. W. H. Gates. No. 1,141,052; May 25; Gaz. vol. 214; p. 1278.
- Spark-plug. J. A. Gilbert. No. 1,138,372; May 4; Gaz. vol. 214; p. 230.
- Spark-plug. F. E. Hawkins. No. 1,162,919; Dec. 7; Gaz. vol. 221; p. 64.
- Spark-plug. A. N. Hoagland. No. 1,154,117; Sept. 21; Gaz. vol. 218; p. 691.
- Spark-plug. H. M. Howard and J. A. McHardy. No. 1,158,222; Oct. 26; Gaz. vol. 219; p. 1130.
- Spark-plug. J. P. Inman and R. E. Estes. No. 1,136,961; Apr. 27; Gaz. vol. 213; p. 1138.
- Spark-plug. S. M. Kitchen and N. J. Hoag. No. 1,147,247; July 20; Gaz. vol. 216; p. 836.
- Spark-plug. T. Latch. No. 1,160,911; Nov. 16; Gaz. vol. 220; p. 967.
- Spark-plug. W. M. Marean. No. 1,139,694; May 18; Gaz. vol. 214; p. 767.
- Spark-plug. J. W. Meaker. No. 1,156,796; Oct. 12; Gaz. vol. 219; p. 536.
- Spark-plug. J. W. Meaker. No. 1,156,797; Oct. 12; Gaz. vol. 219; p. 536.
- Spark-plug. J. W. Meaker. No. 1,156,799; Oct. 12; Gaz. vol. 219; p. 537.
- Spark-plug. C. A. Mezzer. No. 1,134,345; Apr. 6; Gaz. vol. 213; p. 96.
- Spark-plug. D. B. Mills. No. 1,153,942; Sept. 21; Gaz. vol. 218; p. 631.
- Spark-plug. D. W. Peck. No. 1,166,385; Dec. 28; Gaz. vol. 221; p. 1407.
- Spark-plug. C. A. Peterson. No. 1,125,879; Jan. 19; Gaz. vol. 210; p. 1024.
- Spark-plug. W. H. Quackenbush. No. 1,129,603; Feb. 23; Gaz. vol. 211; p. 1155.
- Spark-plug. J. Rick. No. 1,159,994; Nov. 9; Gaz. vol. 220; p. 590.
- Spark-plug. O. Rickmeyer. No. 1,132,385; Mar. 16; Gaz. vol. 212; p. 963.
- Spark-plug. I. H. Sare. No. 1,150,392; Aug. 17; Gaz. vol. 217; p. 845.
- Spark-plug. A. Schmidt. No. 1,128,819; Feb. 16; Gaz. vol. 211; p. 842.
- Spark-plug. A. Schmidt. No. 1,135,727; Apr. 13; Gaz. vol. 213; p. 626.
- Spark-plug. A. Schmidt. No. 1,138,797; May 11; Gaz. vol. 214; p. 417.
- Spark-plug. A. Schmidt. No. 1,142,369; June 8; Gaz. vol. 215; p. 487.
- Spark-plug. A. Schmidt. No. 1,147,818; July 27; Gaz. vol. 216; p. 1061.
- Spark-plug. A. Schmidt. No. 1,155,514; Oct. 5; Gaz. vol. 219; p. 67.
- Spark-plug. A. Schmidt. No. 1,155,515; Oct. 5; Gaz. vol. 219; p. 67.
- Spark-plug. G. T. Simmons. No. 1,163,272; Dec. 7; Gaz. vol. 221; p. 188.
- Spark-plug. M. P. Sullivan. No. 1,163,281; Dec. 7; Gaz. vol. 221; p. 191.
- Spark-plug. J. Triska. No. 1,138,811; May 11; Gaz. vol. 214; p. 421.
- Spark-plug. J. M. Walton. No. 1,132,811; Mar. 23; Gaz. vol. 212; p. 1168.
- Spark-plug. J. G. Westbrook. No. 1,127,330; Feb. 2; Gaz. vol. 211; p. 232.
- Spark-plug. D. H. Yost. No. 1,132,060; Mar. 16; Gaz. vol. 212; p. 844.
- Spark-plug attachment. R. K. McDougal. No. 1,137,992; May 4; Gaz. vol. 214; p. 94.
- Spark-plug attachment. A. L. Penquite. No. 1,162,804; Dec. 7; Gaz. vol. 221; p. 25.
- Spark-plug attachment. E. Rolle. No. 1,131,556; Mar. 9; Gaz. vol. 212; p. 628.
- Spark-plug connector. A. H. Ochs. No. 1,154,201; Sept. 21; Gaz. vol. 218; p. 718.
- Spark-plug. Forming a shell for a. W. E. Sherbondy. No. 1,152,982; Sept. 7; Gaz. vol. 218; p. 221.
- Spark-plug. Forming a sheet-metal shell for a. W. E. Sherbondy. No. 1,152,983; Sept. 7; Gaz. vol. 218; p. 221.
- Spark-plug for internal-combustion engines. W. D. Vandecar. No. 1,158,593; Nov. 2; Gaz. vol. 220; p. 65.
- Spark-plug mechanism. J. W. Meaker. No. 1,149,388; Aug. 10; Gaz. vol. 217; p. 425.
- Spark-plug. Priming. I. B. Hicks. No. 1,152,177; Aug. 31; Gaz. vol. 217; p. 1562.
- Spark-plug. Separable. A. B. Mosler. No. 1,131,154; Mar. 9; Gaz. vol. 212; p. 489.
- Spark-plug terminal connection. J. P. Blauvelt. No. 1,138,445; May 4; Gaz. vol. 214; p. 255.
- Spark-plugs and cores. Mold for glass. H. Long. No. 1,153,126; Sept. 7; Gaz. vol. 218; p. 268.
- Spark-plugs. Manufacturing. F. M. Furber. No. 1,126,975; Feb. 2; Gaz. vol. 211; p. 109.
- Spark-plugs. Trouble-detector for. G. M. Beard. No. 1,138,441; May 4; Gaz. vol. 214; p. 254.
- Sparkling device. C. M. Hilliker and N. Salomonsky. No. 1,125,097; Jan. 19; Gaz. vol. 210; p. 746.
- Sparkling igniter. C. Wachtel. No. 1,123,434; Jan. 5; Gaz. vol. 210; p. 82.
- Sparkling indicator. C. E. Harlan. No. 1,140,816; May 25; Gaz. vol. 214; p. 1194.
- Sparkling indicator. C. E. Harlan. No. 1,166,366; Dec. 28; Gaz. vol. 221; p. 1399.
- Sparkling plug. R. Carpentier. No. 1,131,115; Mar. 9; Gaz. vol. 212; p. 476.
- Sparkling plug. F. Lux. No. 1,148,106; July 27; Gaz. vol. 216; p. 1165.
- Sparkling plug. I. C. Orswell. No. 1,164,113; Dec. 14; Gaz. vol. 221; p. 528.
- Sparkling plug. T. M. and G. T. Wayman. No. 1,123,631; Jan. 5; Gaz. vol. 210; p. 149.
- Sparkling plugs, Permutation-alarm and circuit-closer for. P. Roussey. No. 1,161,890; Nov. 30; Gaz. vol. 220; p. 1402.
- Sparrow-trap. G. F. Etzel. No. 1,145,982; July 13; Gaz. vol. 216; p. 372.
- Spectacle-frame. J. C. Ferguson, Jr. No. 1,147,712; July 27; Gaz. vol. 216; p. 1025.
- Spectacle-mounting. F. A. Stevens. No. 1,145,711; July 6; Gaz. vol. 216; p. 258.
- Spectacle mounting. Rimless. C. A. Hoffman. No. 1,129,490; Feb. 23; Gaz. vol. 211; p. 1115.
- Spectacle-temple connection. F. Willson and H. F. Shindel. No. 1,147,773; July 27; Gaz. vol. 216; p. 1045.
- Spectacle-temple of spiral wire. J. Faber. No. 1,157,373; Oct. 19; Gaz. vol. 219; p. 772.
- Spectacles. L. F. Adt. No. 1,145,454; July 6; Gaz. vol. 216; p. 168.
- Spectacles. T. J. Murray. No. 1,145,786; July 6; Gaz. vol. 216; p. 284.
- Spectacles. J. C. Wells. No. 1,139,146; May 11; Gaz. vol. 214; p. 540.
- Spectacles, Eye-shield protecting-. F. Willson and N. Bourquin. No. 1,161,100; Nov. 23; Gaz. vol. 220; p. 1078.

Alphabetical list of inventions—Continued.

- Spectacles or eyeglasses, Tool for angling the crests or the bridges of. C. J. Troppman. No. 1,128,638; Feb. 16; Gaz. vol. 211; p. 779.
- Spectacles, Testing-. O. Henker. No. 1,165,597; Dec. 28; Gaz. vol. 221; p. 1124.
- Speculum. S. B. Dunn. No. 1,154,748; Sept. 28; Gaz. vol. 218; p. 935.
- Speculum, Vaginal. L. Drosin. No. 1,150,749; Aug. 17; Gaz. vol. 217; p. 968.
- Speed-alarm. W. B. Crossland. No. 1,136,410; Apr. 20; Gaz. vol. 213; p. 908.
- Speed and reverse mechanism, Change-. W. T. Clark and J. Peoples, Jr. No. 1,126,396; Jan. 26; Gaz. vol. 210; p. 1244.
- Speed-change mechanism. C. S. Reinhart. No. 1,159,709; Nov. 9; Gaz. vol. 220; p. 487.
- Speed-changing and reversing device. C. De Lukacsevics. No. 1,129,651; Feb. 23; Gaz. vol. 211; p. 1170.
- Speed changing and reversing mechanism, Hydraulic. H. L. Worden. No. 1,147,586; July 20; Gaz. vol. 216; p. 954.
- Speed-changing apparatus. A. Sundh. No. 1,134,772; Apr. 6; Gaz. vol. 213; p. 253.
- Speed-changing mechanism. F. Johnson. No. 1,147,868; July 27; Gaz. vol. 216; p. 1079.
- Speed-changing mechanism. G. D. Munsing. No. 1,151,897; Aug. 31; Gaz. vol. 217; p. 1466.
- Speed-changing mechanism. G. D. Munsing. No. 1,163,842; Dec. 14; Gaz. vol. 221; p. 434.
- Speed-changing mechanism. H. G. C. Schwarze. No. 1,139,078; May 11; Gaz. vol. 214; p. 516.
- Speed-changing mechanism. H. W. Van Leir and U. D. Garver. No. 1,148,264; July 27; Gaz. vol. 216; p. 1220.
- Speed-control device. W. S. Menden. No. 1,132,205; Mar. 16; Gaz. vol. 212; p. 897.
- Speed-control mechanism. H. A. Myers. No. 1,148,527; Aug. 3; Gaz. vol. 217; p. 15.
- Speed-controller. C. M. Manly. No. 1,164,109; Dec. 14; Gaz. vol. 221; p. 527.
- Speed controller and indicator. J. L. Wheeler. No. 1,134,026; Mar. 30; Gaz. vol. 212; p. 1634.
- Speed controller, Variable. R. Herman. No. 1,147,089; July 20; Gaz. vol. 216; p. 779.
- Speed-controlling apparatus for self-propelled vehicles, Shock-operated. I. H. Davis. No. 1,155,471; Oct. 5; Gaz. vol. 219; p. 51.
- Speed-controlling device. A. Walton. No. 1,144,012; June 22; Gaz. vol. 215; p. 1123.
- Speed-controlling mechanism, Transmission. F. W. Woodhull. No. 1,133,690; Mar. 30; Gaz. vol. 212; p. 1522.
- Speed device, Automatic change-. J. A. McKeever. No. 1,137,507; Apr. 27; Gaz. vol. 213; p. 1336.
- Speed device, Auxiliary change-. E. B. Tolman, Jr. No. 1,166,020; Dec. 28; Gaz. vol. 221; p. 1272.
- Speed-drill. J. Duval. No. 1,148,365; July 27; Gaz. vol. 216; p. 1258.
- Speed drill, Variable. F. H. Hedinger. No. 1,160,891; Nov. 16; Gaz. vol. 220; p. 959.
- Speed gaging and indicating mechanism. C. L. Collens, 2d. No. 1,123,849; Jan. 5; Gaz. vol. 210; p. 222.
- Speed-governing mechanism. F. Samuelson. No. 1,154,062; Sept. 21; Gaz. vol. 218; p. 672.
- Speed-governor. V. J. Diefenderfer. No. 1,142,803; June 15; Gaz. vol. 215; p. 678.
- Speed-governor, Adjustable. H. E. Woolery. No. 1,163,964; Dec. 14; Gaz. vol. 221; p. 475.
- Speed-governor, Centrifugal. V. G. Apple. No. 1,145,656; July 6; Gaz. vol. 216; p. 238.
- Speed governor, Variable-. W. F. Kasper. No. 1,148,321; July 27; Gaz. vol. 216; p. 1242.
- Speed indicating and controlling device. A. C. Rutzen. No. 1,163,264; Dec. 7; Gaz. vol. 221; p. 185.
- Speed-indicating and mileage-registering apparatus. M. Irion and A. E. Mueller. No. 1,141,963; June 8; Gaz. vol. 215; p. 343.
- Speed-indicating mechanism. G. P. Finnigan. No. 1,165,082; Dec. 21; Gaz. vol. 221; p. 906.
- Speed-indicator. W. N. Allan. No. 1,146,913; July 20; Gaz. vol. 216; p. 718.
- Speed-indicator. L. T. Jensen. No. 1,125,332; Jan. 19; Gaz. vol. 210; p. 830.
- Speed-indicator. L. T. Jensen. No. 1,125,333; Jan. 19; Gaz. vol. 210; p. 830.
- Speed-indicator. R. J. K. L. Kaiser. No. 1,159,391; Nov. 9; Gaz. vol. 220; p. 374.
- Speed-indicator. W. J. Landon. No. 1,149,453; Aug. 10; Gaz. vol. 217; p. 447.
- Speed-indicator. G. H. Lang. No. 1,128,695; Feb. 16; Gaz. vol. 211; p. 798.
- Speed-indicator. M. Leitch. No. 1,150,130; Aug. 17; Gaz. vol. 217; p. 752.
- Speed-indicator. J. Strohle. No. 1,132,130; Mar. 16; Gaz. vol. 212; p. 870.
- Speed-indicator. H. G. Thuesen. No. 1,159,551; Nov. 9; Gaz. vol. 220; p. 430.
- Speed-indicator. G. T. Willson. No. 1,150,088; Aug. 17; Gaz. vol. 217; p. 737.
- Speed-indicator and the like. B. Bonniksen. No. 1,134,369; Apr. 6; Gaz. vol. 213; p. 104.
- Speed-limiting device. J. E. Englesson. No. 1,127,977; Feb. 9; Gaz. vol. 211; p. 501.
- Speed-limiting device. A. J. Loguin. No. 1,158,820; Nov. 2; Gaz. vol. 220; p. 145.
- Speed-measuring apparatus. D. F. Comstock and H. T. Kalmus. No. 1,136,105; Apr. 20; Gaz. vol. 213; p. 797.
- Speed mechanism, Adjustable. W. McEnerney. No. 1,137,769; May 4; Gaz. vol. 214; p. 16.
- Speed mechanism and controlling device therefor, Selective. C. P. Burt. No. 1,133,925; Mar. 30; Gaz. vol. 212; p. 1602.
- Speed mechanism, Change-. F. Beemer. No. 1,145,344; July 6; Gaz. vol. 216; p. 127.
- Speed mechanism, Electrically-controlled change-. H. G. Baldwin. No. 1,130,134; Mar. 2; Gaz. vol. 212; p. 102.
- Speed mechanism, Friction change-. J. Wray. No. 1,165,354; Dec. 21; Gaz. vol. 221; p. 1000.
- Speed mechanism, Variable. A. Fay. No. 1,145,236; July 6; Gaz. vol. 216; p. 92.
- Speed mechanism, Variable. W. B. Kelsey. No. 1,160,414; Nov. 16; Gaz. vol. 220; p. 789.
- Speed mechanism, Variable. W. T. B. Roberts and J. H. Brown. No. 1,129,906; Mar. 2; Gaz. vol. 212; p. 25.
- Speed of trains, Automatic device for controlling the. L. W. Horne and W. N. Crane. No. 1,164,284; Dec. 14; Gaz. vol. 221; p. 586.
- Speed-recorder. A. H. Martin. No. 1,160,633; Nov. 16; Gaz. vol. 220; p. 869.
- Speed-recorder. S. B. Storer. No. 1,148,126; July 27; Gaz. vol. 216; p. 1173.
- Speed-recorder attachment. C. A. Bowden and J. F. Gordon. No. 1,131,668; Mar. 16; Gaz. vol. 212; p. 702.
- Speed-regulator. C. M. Sime. No. 1,151,907; Aug. 31; Gaz. vol. 217; p. 1470.
- Speed-transmission apparatus, Variable. J. A. Wilkin. No. 1,136,636; Apr. 20; Gaz. vol. 213; p. 986.
- Speed-transmission device, Variable. W. E. Scheibner. No. 1,153,261; Sept. 14; Gaz. vol. 218; p. 354.
- Speed-transmission mechanism, Changeable. G. W. Price. No. 1,153,569; Sept. 14; Gaz. vol. 218; p. 467.
- Speed-transmission mechanism, Variable. J. R. McGiffert. No. 1,143,547; June 15; Gaz. vol. 215; p. 937.
- Speed-transmission mechanism, Variable. M. F. Webster. No. 1,136,188; Apr. 20; Gaz. vol. 213; p. 826.
- Speed-transmission mechanism, Variable. C. R. Wood. No. 1,158,357; Oct. 26; Gaz. vol. 219; p. 1177.
- Speed transmitter, Variable. J. Reece. No. 1,153,256; Sept. 14; Gaz. vol. 218; p. 352.
- Speed-varying mechanism. D. C. Woodworth. No. 1,165,353; Dec. 21; Gaz. vol. 221; p. 1000.
- Speedometer. T. D. Adair. No. 1,161,757; Nov. 23; Gaz. vol. 220; p. 1309.
- Speedometer. S. A. Asquith. No. 1,164,908; Dec. 21; Gaz. vol. 221; p. 845.
- Speedometer. H. D. Ball and J. I. Floyd. No. 1,126,683; Feb. 2; Gaz. vol. 211; p. 5.
- Speedometer. L. E. Blanchard. No. 1,129,329; Feb. 23; Gaz. vol. 211; p. 1057.
- Speedometer. W. N. Dennison. No. 1,152,010; Aug. 31; Gaz. vol. 217; p. 1504.
- Speedometer. W. G. Leathers. No. 1,143,978; June 22; Gaz. vol. 215; p. 1111.
- Speedometer. W. G. Leathers. No. 1,147,329; July 20; Gaz. vol. 216; p. 861.
- Speedometer. R. H. Manson. No. 1,125,702; Jan. 19; Gaz. vol. 210; p. 963.
- Speedometer. R. H. Manson. No. 1,125,703; Jan. 19; Gaz. vol. 210; p. 964.
- Speedometer. A. F. Poole. No. 1,158,281; Oct. 26; Gaz. vol. 219; p. 1151.
- Speedometer. H. H. Welch. No. 1,159,816; Nov. 9; Gaz. vol. 220; p. 527.
- Speedometer. F. A. Wieland. No. 1,137,822; May 4; Gaz. vol. 214; p. 35.
- Speedometer and speed-controller, Combined. B. D. Emanuel. No. 1,127,607; Feb. 9; Gaz. vol. 211; p. 369.
- Speedometer and tire-meter. W. P. Hammond. No. 1,138,653; May 11; Gaz. vol. 214; p. 363.
- Speedometer drive-gear. E. A. Larson. No. 1,161,483; Nov. 23; Gaz. vol. 220; p. 1216.
- Speedometer drive-gear. J. K. Stewart. No. 1,148,125; July 27; Gaz. vol. 216; p. 1173.
- Speedometer for separators, Centrifugal. M. H. G. Oedeker. No. 1,136,706; Apr. 20; Gaz. vol. 213; p. 1012.
- Speedometer, Marine. C. H. Kenney. No. 1,138,226; May 4; Gaz. vol. 214; p. 175.
- Speedometers and similar devices for temperature variations, Means for compensating. E. M. Thompson. No. 1,134,649; Apr. 6; Gaz. vol. 213; p. 207.
- Spelter from ferruginous and admixed zinc-blend ores, Manufacture of. J. J. England. No. 1,157,375; Oct. 19; Gaz. vol. 219; p. 773.
- Spherical bodies, Device for truing. S. J. Warlick and J. H. Bunker. No. 1,156,953; Oct. 19; Gaz. vol. 219; p. 623.
- Spherical bodies, Machine for manufacturing. H. C. Hill. No. 1,164,718; Dec. 21; Gaz. vol. 221; p. 779.
- Sphygmomanometer. P. Nicholson. No. 1,134,632; Apr. 6; Gaz. vol. 213; p. 200.
- Sphygmomanometer. C. J. Pilling and G. S. White. No. 1,154,934; Sept. 28; Gaz. vol. 218; p. 998.

- Sphygmomanometer. C. R. Waser. No. 1,164,895; Dec. 21; Gaz. vol. 221; p. 840.
- Sphygmomanometer. C. R. Waser. No. 1,164,896; Dec. 21; Gaz. vol. 221; p. 841.
- Sphygmometer. W. E. Haseltine. No. 1,139,519; May 18; Gaz. vol. 214; p. 705.
- Spigot. T. R. Geisel. No. 1,166,202; Dec. 28; Gaz. vol. 221; p. 1340.
- Spike. A. J. Altheide. No. 1,144,279; June 22; Gaz. vol. 215; p. 1218.
- Spike. J. M. Byrd. No. 1,154,482; Sept. 21; Gaz. vol. 218; p. 815.
- Spike. L. E. Prince and F. J. Merrill. No. 1,156,811; Oct. 12; Gaz. vol. 219; p. 541.
- Spike. M. Reedy. No. 1,127,090; Feb. 2; Gaz. vol. 211; p. 151.
- Spike. B. R. Watson. No. 1,163,962; Dec. 14; Gaz. vol. 221; p. 475.
- Spike and tie-plate, Self-locking. O. S. Lund. No. 1,129,498; Feb. 23; Gaz. vol. 211; p. 1117.
- Spike-extractor. P. Aiazzi. No. 1,156,870; Oct. 19; Gaz. vol. 219; p. 593.
- Spike-bolder. W. D. Kelly. No. 1,143,051; June 15; Gaz. vol. 215; p. 765.
- Spike-machine. J. W. Ames and L. J. Batzle. No. 1,138,171; May 4; Gaz. vol. 214; p. 158.
- Spike-machine, Automatic. J. C. Dilworth and C. S. Weeks. No. 1,150,665; Aug. 17; Gaz. vol. 217; p. 940.
- Spike or nail. C. E. Martin. No. 1,131,149; Mar. 9; Gaz. vol. 212; p. 488.
- Spike-puller. W. Dannenberg. No. 1,150,833; Aug. 17; Gaz. vol. 217; p. 998.
- Spill-gate. A. J. Collar. No. 1,139,104; May 11; Gaz. vol. 214; p. 526.
- Spindle. See—
 Axle-spindle. Spinning-spindle.
 Centering-spindle. Vehicle-spindle.
 Oilless spindle.
- Spindle. H. L. Brown. No. 1,149,719; Aug. 10; Gaz. vol. 217; p. 544.
- Spindle. J. B. Nanteau. No. 1,147,638; July 20; Gaz. vol. 216; p. 973.
- Spindle. J. Thebault. No. 1,144,394; June 29; Gaz. vol. 215; p. 1286.
- Spindle device, High-speed-. F. D. Van Norman. No. 1,155,176; Sept. 28; Gaz. vol. 218; p. 1083.
- Spindle-tester. P. Reilly. No. 1,129,903; Mar. 2; Gaz. vol. 212; p. 24.
- Spindles, Chuck for web-. G. F. Sullivan. No. 1,136,627; Apr. 20; Gaz. vol. 213; p. 984.
- Spindles, Device for overcoming vibration of. P. E. Bassett. No. 1,162,125; Nov. 30; Gaz. vol. 220; p. 1486.
- Spindles, Step-bearing head for rotary. A. R. Jackson. No. 1,134,270; Apr. 6; Gaz. vol. 213; p. 69.
- Spinning and analogous machine. E. H. Foster. No. 1,149,121; Aug. 3; Gaz. vol. 217; p. 222.
- Spinning and doubling frames, Roving-creel for. O. L. Owen and L. Rasco. No. 1,158,387; Oct. 26; Gaz. vol. 219; p. 1189.
- Spinning and like machines, Spindle-support for. A. A. Lovejoy. No. 1,125,700; Jan. 19; Gaz. vol. 210; p. 963.
- Spinning and sealing. M. P. Janisch. No. 1,155,734; Oct. 5; Gaz. vol. 219; p. 143.
- Spinning and twisting fibers. G. A. Lowry. No. 1,150,136; Aug. 17; Gaz. vol. 217; p. 754.
- Spinning and twisting fibers, Machine for. G. A. Lowry. No. 1,150,137; Aug. 17; Gaz. vol. 217; p. 755.
- Spinning and twisting machine. W. Parker. No. 1,147,042; July 20; Gaz. vol. 216; p. 764.
- Spinning and twisting machine. P. Saracco. No. 1,138,981; May 11; Gaz. vol. 214; p. 481.
- Spinning and twisting machine, Flier. H. C. H. Lerch. No. 1,124,476; Jan. 12; Gaz. vol. 210; p. 490.
- Spinning and twisting machine, Flier. H. C. H. Lerch. No. 1,148,102; July 27; Gaz. vol. 216; p. 1164.
- Spinning and twisting paper and other fibrous materials. T. A. Boyd. No. 1,139,333; May 11; Gaz. vol. 214; p. 602.
- Spinning and twisting textile materials, Ring-frame for. E. Plantron. No. 1,126,075; Jan. 26; Gaz. vol. 210; p. 1129.
- Spinning and winding machine. Z. E. Booth. No. 1,153,190; Sept. 14; Gaz. vol. 218; p. 329.
- Spinning apparatus. J. H. Nicholson. No. 1,157,323; Oct. 19; Gaz. vol. 219; p. 754.
- Spinning apparatus, Traverse-motion for yarn-. L. S. Burbank. No. 1,125,924; Jan. 26; Gaz. vol. 210; p. 1072.
- Spinning cotton and apparatus therefor. W. T. Smith. No. 1,128,193; Feb. 9; Gaz. vol. 211; p. 577.
- Spinning cotton and other fibers or fibrous material. C. Lister. No. 1,126,042; Jan. 26; Gaz. vol. 210; p. 1115.
- Spinning device. C. M. Olmsted. No. 1,138,142; May 4; Gaz. vol. 214; p. 149.
- Spinning device. F. Wankel. No. 1,130,554; Mar. 2; Gaz. vol. 212; p. 251.
- Spinning, doubling, &c., Frame for continuous. J. S. Gaunt and H. Dyson. No. 1,151,173; Aug. 24; Gaz. vol. 217; p. 1171.
- Spinning-frame. F. Casablancas. No. 1,147,676; July 20; Gaz. vol. 216; p. 986.
- Spinning-frame. A. H. Morton. No. 1,163,552; Dec. 7; Gaz. vol. 221; p. 285.
- Spinning-frame. A. H. Morton. No. 1,165,620; Dec. 28; Gaz. vol. 221; p. 1133.
- Spinning-frame doffing-machine. A. G. Boozer, Jr., and G. Hill. No. 1,142,011; June 8; Gaz. vol. 215; p. 362.
- Spinning-frame doffing-machine. A. G. Boozer, Jr., and G. Hill. No. 1,142,012; June 8; Gaz. vol. 215; p. 362.
- Spinning-frame doffing-machine. A. G. Boozer, Jr., and G. Hill. No. 1,142,013; June 8; Gaz. vol. 215; p. 363.
- Spinning-frame doffing-machine. A. G. Boozer, Jr., and G. Hill. No. 1,142,747; June 8; Gaz. vol. 215; p. 616.
- Spinning-frames and the like, Roving-creel for. A. H. Morton. No. 1,144,720; June 29; Gaz. vol. 215; p. 1397.
- Spinning-head. M. P. Janisch. No. 1,162,862; Dec. 7; Gaz. vol. 221; p. 45.
- Spinning-machine. E. J. Cotter. No. 1,146,238; July 13; Gaz. vol. 216; p. 463.
- Spinning-machine. O. J. Küstner. No. 1,128,462; Feb. 16; Gaz. vol. 211; p. 719.
- Spinning-machine. H. W. Owen. No. 1,161,959; Nov. 30; Gaz. vol. 220; p. 1428.
- Spinning-machine. A. and J. Stell and H. Welch. No. 1,124,672; Jan. 12; Gaz. vol. 210; p. 560.
- Spinning-machine. L. Vanham. No. 1,160,017; Nov. 9; Gaz. vol. 220; p. 598.
- Spinning-machine. P. Wallace. No. 1,131,580; Mar. 9; Gaz. vol. 212; p. 636.
- Spinning-machine cleaner. G. F. Roberts. No. 1,129,312; Feb. 23; Gaz. vol. 211; p. 1051.
- Spinning-machine tension-regulator. J. G. Cunningham and F. W. Manion. No. 1,137,053; Apr. 27; Gaz. vol. 213; p. 1172.
- Spinning-machine thread-guide. J. Coldwell. No. 1,134,315; Apr. 6; Gaz. vol. 213; p. 85.
- Spinning-machine wheel-mount. H. G. Beede. No. 1,148,741; Aug. 3; Gaz. vol. 217; p. 94.
- Spinning-machine wheel-mount. C. W. Boardman. No. 1,146,396; July 13; Gaz. vol. 216; p. 517.
- Spinning-machines, Automatic doffer for. H. and J. H. Williams. No. 1,150,649; Aug. 17; Gaz. vol. 217; p. 935.
- Spinning-machines, Bobbin-placing and bobbin-removing attachment for. A. G. Boozer, Jr., and G. Hill. No. 1,142,010; June 8; Gaz. vol. 215; p. 361.
- Spinning machines, Protecting device for cotton-. B. Gordon, Jr. No. 1,141,457; June 1; Gaz. vol. 215; p. 133.
- Spinning machines, Spinning-tray for cellular-material-. O. A. Günther. No. 1,134,379; Apr. 6; Gaz. vol. 213; p. 107.
- Spinning machines, Stop-motion for worsted-. L. Robinson. No. 1,132,526; Mar. 16; Gaz. vol. 212; p. 1015.
- Spinning machines, &c., Tension-pulley for spindle-driving mechanism of textile. C. W. Boardman. No. 1,148,745; Aug. 3; Gaz. vol. 217; p. 95.
- Spinning mechanism. M. H. Maloney. No. 1,153,237; Sept. 14; Gaz. vol. 218; p. 346.
- Spinning-mule, Self-acting. J. Rowbotham. No. 1,146,450; July 13; Gaz. vol. 216; p. 538.
- Spinning-mules, Means for cross-winding yarn in. H. S. Golland. No. 1,144,652; June 29; Gaz. vol. 215; p. 1373.
- Spinning or twisting machine with separately and electrically driven fliers. H. Schneider. No. 1,166,008; Dec. 28; Gaz. vol. 221; p. 1268.
- Spinning or twisting machines, Thread-guide support for. L. T. Houghton. No. 1,134,336; Apr. 6; Gaz. vol. 213; p. 93.
- Spinning. Preparing bast fiber, such as flax or hemp, for. B. S. Summers. No. 1,127,311; Feb. 2; Gaz. vol. 211; p. 226.
- Spinning purposes, Device for opening straw and other vegetable matter for. F. Reichmann. No. 1,162,191; Nov. 30; Gaz. vol. 220; p. 1509.
- Spinning-ring. J. V. Cuniff. No. 1,161,800; Nov. 23; Gaz. vol. 220; p. 1325.
- Spinning-ring. J. K. Lanning. No. 1,161,697; Nov. 23; Gaz. vol. 220; p. 1289.
- Spinning-ring mechanism. M. H. Maloney. No. 1,165,012; Dec. 21; Gaz. vol. 221; p. 882.
- Spinning rolls. Covering for textile. H. E. Bell. No. 1,161,591; Nov. 23; Gaz. vol. 220; p. 1253.
- Spinning-spindle, Bobbin-clutching. C. D. Lanning. No. 1,160,725; Nov. 16; Gaz. vol. 220; p. 902.
- Spinning thread and the like, Apparatus for. H. L. Brown. No. 1,146,048; July 13; Gaz. vol. 216; p. 396.
- Spinning, twisting, and analogous machine. S. and H. Shackleton. No. 1,164,412; Dec. 14; Gaz. vol. 221; p. 632.
- Spittoon. M. H. Whalen. No. 1,160,553; Nov. 16; Gaz. vol. 220; p. 839.
- Spittoon-handle. Y. S. Stallworth. No. 1,159,120; Nov. 2; Gaz. vol. 220; p. 245.
- Splice-bar. F. E. Abbott. No. 1,152,375; Aug. 31; Gaz. vol. 217; p. 1632.
- Splice-bar. N. Durbin. No. 1,132,312; Mar. 16; Gaz. vol. 212; p. 938.

Alphabetical list of inventions—Continued.

- Splice bar or holder. F. B. Byers. No. 1,162,976; Dec. 7; Gaz. vol. 221; p. 84.
- Splice device. L. C. Weldin. No. 1,146,467; July 13; Gaz. vol. 216; p. 545.
- Splice-joint. C. J. Rothermel. No. 1,123,805; Jan. 5; Gaz. vol. 210; p. 207.
- Split, Extension-. F. P. Nourse. No. 1,164,956; Dec. 21; Gaz. vol. 221; p. 863.
- Split key. C. J. Wymer. No. 1,160,807; Nov. 16; Gaz. vol. 220; p. 931.
- Split-machine. A. Pentecost. No. 1,126,851; Feb. 2; Gaz. vol. 211; p. 67.
- Splitting-machine. A. W. Eaton. No. 1,128,300; Feb. 16; Gaz. vol. 211; p. 664.
- Spoke-extracting device. B. Gershovitz and H. Axelrod. No. 1,151,006; Aug. 24; Gaz. vol. 217; p. 1114.
- Spoke, Metallic wheel-. C. S. and J. A. Challiner. No. 1,152,292; Aug. 31; Gaz. vol. 217; p. 1602.
- Spoke-mitering machine. O. C. Ketring and E. D. Pope. No. 1,158,057; Oct. 26; Gaz. vol. 219; p. 1073.
- Spoke-repair ring. C. C. Smith. No. 1,166,015; Dec. 28; Gaz. vol. 221; p. 1270.
- Spoke-sanding machine, Automatic. A. L. Butcher and H. Flick. No. 1,144,347; June 29; Gaz. vol. 215; p. 1270.
- Spoke-tightener for vehicle-wheels. P. Holmgren. No. 1,150,193; Aug. 17; Gaz. vol. 217; p. 776.
- Spoke, Wheel-. H. M. Taylor. No. 1,164,237; Dec. 14; Gaz. vol. 221; p. 569.
- Spokes, Sheathing of. L. A. Young. No. 1,165,056; Dec. 21; Gaz. vol. 221; p. 897.
- Sponge-cup and chalk-holder, Combined. E. Schlossberg. No. 1,151,404; Aug. 24; Gaz. vol. 217; p. 1248.
- Sponge, Manufacturing artificial. G. Pium and A. Glaesner. No. 1,142,619; June 8; Gaz. vol. 215; p. 575.
- Spool. B. L. Bowen. No. 1,152,278; Aug. 31; Gaz. vol. 217; p. 1596.
- Spool. J. W. Edson. No. 1,141,448; June 1; Gaz. vol. 215; p. 129.
- Spool. C. H. Forney. No. 1,159,204; Nov. 2; Gaz. vol. 220; p. 277.
- Spool and implement holder, Combined. A. K. Trimpey. No. 1,165,042; Dec. 21; Gaz. vol. 221; p. 892.
- Spool-carrier. C. B. Braithwaite. No. 1,153,021; Sept. 7; Gaz. vol. 218; p. 235.
- Spool-clip. M. L. Wood. No. 1,140,226; May 18; Gaz. vol. 214; p. 954.
- Spool-head fastener. W. Barker. No. 1,150,011; Aug. 17; Gaz. vol. 217; p. 710.
- Spool-holder. C. F. Hradecky. No. 1,149,263; Aug. 10; Gaz. vol. 217; p. 379.
- Spool-holder. M. J. Otto. No. 1,137,079; Apr. 27; Gaz. vol. 213; p. 1182.
- Spool-holder. S. G. Schiff. No. 1,130,437; Mar. 2; Gaz. vol. 212; p. 208.
- Spool-holder. J. H. Shearn. No. 1,127,686; Feb. 9; Gaz. vol. 211; p. 395.
- Spool-holder. J. H. Shearn. No. 1,147,694; July 20; Gaz. vol. 216; p. 992.
- Spool-holder. S. M. and S. Wechsler. No. 1,136,854; Apr. 20; Gaz. vol. 213; p. 1064.
- Spool, Metallic. G. A. Hersey. No. 1,143,392; June 15; Gaz. vol. 215; p. 887.
- Spool or cord holder. F. H. Van Loozen. No. 1,138,812; May 11; Gaz. vol. 214; p. 421.
- Spool or reel for ribbons, &c. E. Carraine. No. 1,143,505; June 15; Gaz. vol. 215; p. 923.
- Spool, Ribbon-. M. J. Clabby and W. H. Tallon. No. 1,146,551; July 13; Gaz. vol. 216; p. 573.
- Spool, Sheet-metal. E. J. Hubbard. No. 1,143,541; June 15; Gaz. vol. 215; p. 936.
- Spool-unwinding device. J. L. Walsh. No. 1,132,050; Mar. 16; Gaz. vol. 212; p. 841.
- Spool-unwinding device. J. L. Walsh. No. 1,159,815; Nov. 9; Gaz. vol. 220; p. 526.
- Spool-washer. F. B. Hall. No. 1,148,491; July 27; Gaz. vol. 216; p. 1299.
- Spools, Tension device for. J. Larson. No. 1,135,702; Apr. 13; Gaz. vol. 213; p. 617.
- Spools, Terminal mounting for metallic. O. F. Forsberg. No. 1,163,904; Dec. 14; Gaz. vol. 221; p. 454.
- Spooler. A. E. Rhoades. No. 1,140,768; May 25; Gaz. vol. 214; p. 1177.
- Spooler. A. E. Rhoades. No. 1,152,845; Sept. 7; Gaz. vol. 218; p. 171.
- Spooling device. W. H. Carpenter. No. 1,141,771; June 1; Gaz. vol. 215; p. 240.
- Spooling-machine. F. L. Atherton. No. 1,163,499; Dec. 7; Gaz. vol. 221; p. 267.
- Spooling-machine. A. Belz. No. 1,141,604; June 1; Gaz. vol. 215; p. 185.
- Spooling-machine. A. Belz. No. 1,161,284; Nov. 23; Gaz. vol. 220; p. 1146.
- Spoon. J. T. Meyer. No. 1,144,490; June 29; Gaz. vol. 215; p. 1318.
- Spoon and fork construction. G. Heidelberg. No. 1,133,026; Mar. 23; Gaz. vol. 212; p. 1248.
- Spoon, Ice-cream. R. Nielsen. No. 1,132,870; Mar. 23; Gaz. vol. 212; p. 1190.
- Spoon, Ice-cream. R. Nielsen. No. 1,132,871; Mar. 23; Gaz. vol. 212; p. 1190.
- Spoon, Sanitary picnic-. L. F. Doellinger. No. 1,128,114; Feb. 9; Gaz. vol. 211; p. 549.
- Spoons, forks, and other metal articles, Producing polished. A. Wilzin. No. 1,133,775; Mar. 30; Gaz. vol. 212; p. 1550.
- Spot-board. T. Aldridge. No. 1,124,247; Jan. 12; Gaz. vol. 210; p. 406.
- Spot-proofing mechanism. D. Gessner. No. 1,157,773; Oct. 26; Gaz. vol. 219; p. 972.
- Spot-remover. W. R. Daniels. No. 1,134,037; Mar. 30; Gaz. vol. 212; p. 1639.
- Spout and can-opener, Combined. W. H. McCrystle. No. 1,145,778; July 6; Gaz. vol. 216; p. 281.
- Spout for inserting packages in receptacles. R. Rejsek. No. 1,132,032; Mar. 16; Gaz. vol. 212; p. 834.
- Spout, Multiple tapping. D. Shoemaker. No. 1,146,903; July 20; Gaz. vol. 216; p. 714.
- Spout, Pouring-. G. W. Blake. No. 1,124,996; Jan. 12; Gaz. vol. 210; p. 674.
- Spout, Sap-. C. E. Whitcomb. No. 1,154,679; Sept. 28; Gaz. vol. 218; p. 913.
- Spouts and the like, Adjustable support for. E. A. Beyl. No. 1,133,529; Mar. 30; Gaz. vol. 212; p. 1462.
- Spouts, Making. J. Koenig. No. 1,165,421; Dec. 28; Gaz. vol. 221; p. 1064.
- Spray-burner. F. Caldwell. No. 1,152,144; Aug. 31; Gaz. vol. 217; p. 1551.
- Spray-burner. D. E. Erickson. No. 1,166,340; Dec. 28; Gaz. vol. 221; p. 1389.
- Spray-burner. C. V. Stuart. No. 1,164,140; Dec. 14; Gaz. vol. 221; p. 538.
- Spray catcher, Acid-. F. Tschudy. No. 1,135,471; Apr. 13; Gaz. vol. 213; p. 534.
- Spray, Clothes-. C. Krusoff. No. 1,158,241; Oct. 26; Gaz. vol. 219; p. 1138.
- Spray for mineral-washing, Adjustable swinging. W. E. Darrow. No. 1,123,254; Jan. 5; Gaz. vol. 210; p. 18.
- Spray-nozzle. D. M. Luehrs. No. 1,143,293; June 15; Gaz. vol. 215; p. 850.
- Spray-pipes, Holder or support for bath. G. Rubin. No. 1,166,388; Dec. 28; Gaz. vol. 221; p. 1407.
- Spray-trough for cooling condensers. F. F. Bentley. No. 1,139,156; May 11; Gaz. vol. 214; p. 544.
- Sprayer. N. M. McCauley. No. 1,140,177; May 18; Gaz. vol. 214; p. 939.
- Sprayer. F. S. Welch. No. 1,147,286; July 20; Gaz. vol. 216; p. 848.
- Sprayer, Fuel-. S. G. Wigelius. No. 1,130,229; Mar. 2; Gaz. vol. 212; p. 135.
- Sprayer, Gravity-. D. B. Smith. No. 1,158,574; Nov. 2; Gaz. vol. 220; p. 58.
- Sprayer, Leach-. B. F. Amiss. No. 1,130,561; Mar. 2; Gaz. vol. 212; p. 253.
- Sprayer, Liquid-. L. A. Aspinwall. No. 1,162,435; Nov. 30; Gaz. vol. 220; p. 1591.
- Sprayer, Perfume-. M. J. R. Bloch. No. 1,134,098; Apr. 6; Gaz. vol. 213; p. 6.
- Sprayer, Tree-. J. Wilcox. No. 1,135,341; Apr. 13; Gaz. vol. 213; p. 489.
- Sprayer, Vaginal powder-. J. W. Smith. No. 1,145,520; July 6; Gaz. vol. 216; p. 191.
- Spraying apparatus. W. F. Cashen. No. 1,159,829; Nov. 9; Gaz. vol. 220; p. 532.
- Spraying apparatus. A. S. Hanger. No. 1,161,386; Nov. 23; Gaz. vol. 220; p. 1182.
- Spraying attachment. S. K. Iverson. No. 1,144,204; June 22; Gaz. vol. 215; p. 1192.
- Spraying composition. A. S. Ramage. No. 1,166,387; Dec. 28; Gaz. vol. 221; p. 1407.
- Spraying designs on fabrics, Apparatus for. R. Gottlieb. No. 1,143,953; June 22; Gaz. vol. 215; p. 1102.
- Spraying device. C. H. Baker. No. 1,154,833; Sept. 28; Gaz. vol. 218; p. 964.
- Spraying device. R. T. Baldwin. No. 1,163,635; Dec. 14; Gaz. vol. 221; p. 359.
- Spraying device and means for controlling same. D. M. Luehrs. No. 1,154,707; Sept. 28; Gaz. vol. 218; p. 922.
- Spraying device for shoe machinery. G. Riel. No. 1,146,449; July 13; Gaz. vol. 216; p. 538.
- Spraying device, Liquid-fuel-. W. W. Hamill. No. 1,143,700; June 22; Gaz. vol. 215; p. 1015.
- Spraying device, Paint-. H. E. White. No. 1,162,717; Nov. 30; Gaz. vol. 220; p. 1685.
- Spraying devices, Hand-protector for. E. C. Ford. No. 1,147,933; July 27; Gaz. vol. 216; p. 1102.
- Spraying fusible substances. M. U. Schoop. No. 1,133,508; Mar. 30; Gaz. vol. 212; p. 1453.
- Spraying head or nozzle. J. D. Filbin. No. 1,142,410; June 8; Gaz. vol. 215; p. 504.
- Spraying-machine. C. Cornwall and D. J. Foltz. No. 1,128,856; Feb. 16; Gaz. vol. 211; p. 854.
- Spraying machine, Continuous can-. J. G. Hodgson. No. 1,141,339; June 1; Gaz. vol. 215; p. 90.
- Spraying machine, Dust-. C. E. Johnson. No. 1,135,288; Apr. 13; Gaz. vol. 213; p. 470.
- Spraying machine, Plant-. L. A. Hart. No. 1,158,209; Oct. 26; Gaz. vol. 219; p. 1126.
- Spraying, Metal-. R. W. E. Moore. No. 1,164,008; Dec. 14; Gaz. vol. 221; p. 491.
- Spraying molten metal and other fusible substances, Apparatus for. M. U. Schoop. No. 1,133,507; Mar. 30; Gaz. vol. 212; p. 1453.
- Spraying or coating articles, Machine for. C. W. Graham. No. 1,148,163; July 27; Gaz. vol. 216; p. 1185.

- Spring: See—
 Air-spring.
 Armature-spring.
 Auto-spring.
 Autocar-spring.
 Automobile supplemental spring.
 Auxiliary spring.
 Bed-spring.
 Book binder's extensible spring.
 Brake draft-spring.
 Caster-spring.
 Cushion-spring.
 Cycle-spring.
 Door-spring.
 Friction-spring.
 Governor-spring.
 Leaf-spring.
 Mattress-spring.
 Multiple-spring.
 Pneumatic spring.
 Seat-spring.
 Seat-back spring.
 Supplementary spring.
 Tire-spring.
 Valve-spring.
 Vehicle-spring.
 Vehicle air-spring.
 Vehicle bolster-spring.
 Vehicle pneumatic spring.
 Vehicle suspension-spring.
- Spring. A. J. Dilley. No. 1,137,845; May 4; Gaz. vol. 214; p. 43.
 Spring. C. I. Earll. No. 1,138,738; May 11; Gaz. vol. 214; p. 395.
 Spring. G. F. Garrity. No. 1,140,455; May 25; Gaz. vol. 214; p. 1070.
 Spring. F. C. Givens. No. 1,134,839; Apr. 6; Gaz. vol. 213; p. 272.
 Spring. J. R. Hamilton. No. 1,156,859; Oct. 12; Gaz. vol. 219; p. 561.
 Spring. F. F. Hoefle. No. 1,157,869; Oct. 26; Gaz. vol. 219; p. 1007.
 Spring. A. Moffitt. No. 1,150,289; Aug. 17; Gaz. vol. 217; p. 810.
 Spring. H. A. Poppenhusen. No. 1,135,319; Apr. 13; Gaz. vol. 213; p. 481.
 Spring. E. E. Slick. No. 1,139,732; May 18; Gaz. vol. 214; p. 781.
 Spring. E. J. Stacey. No. 1,129,611; Feb. 23; Gaz. vol. 211; p. 1157.
 Spring. H. F. Thurston. No. 1,158,870; Nov. 2; Gaz. vol. 220; p. 162.
 Spring. F. E. Wilcox. No. 1,164,969; Dec. 21; Gaz. vol. 221; p. 867.
 Spring-adjuster. B. T. Williston. No. 1,130,050; Mar. 2; Gaz. vol. 212; p. 73.
 Spring-board. E. F. Carpentier. No. 1,158,173; Oct. 26; Gaz. vol. 219; p. 1114.
 Spring-board holder. G. E. Rohmer. No. 1,126,087; Jan. 26; Gaz. vol. 210; p. 1134.
 Spring-bolster mounting. S. A. Threlkeld. No. 1,131,017; Mar. 9; Gaz. vol. 212; p. 442.
 Spring-bolt. Self-lubricating. D. H. Twaits. No. 1,154,947; Sept. 28; Gaz. vol. 218; p. 1002.
 Spring-bow. Steel. E. F. Enos, Jr. No. 1,161,642; Nov. 23; Gaz. vol. 220; p. 1270.
 Spring-bracket. J. F. and H. E. Dodge. No. 1,129,278; Feb. 23; Gaz. vol. 211; p. 1039.
 Spring-clamp. I. B. Homan. No. 1,134,131; Apr. 6; Gaz. vol. 213; p. 17.
 Spring-clasp. W. W. Saunders. No. 1,160,769; Nov. 16; Gaz. vol. 220; p. 918.
 Spring construction. F. B. King. No. 1,155,425; Oct. 5; Gaz. vol. 219; p. 35.
 Spring construction. W. R. Smith. No. 1,129,367; Feb. 23; Gaz. vol. 211; p. 1070.
 Spring construction. L. A. Young. No. 1,146,836; July 20; Gaz. vol. 216; p. 691.
 Spring construction. Upholstery. L. A. Young. No. 1,137,106; Apr. 27; Gaz. vol. 213; p. 1192.
 Spring-coupling. Flexible. C. Ulven. No. 1,130,219; Mar. 2; Gaz. vol. 212; p. 131.
 Spring-cushion structure. F. P. D'Arcy. No. 1,155,645; Oct. 5; Gaz. vol. 219; p. 111.
 Spring-dampener. C. E. Bauer. No. 1,140,101; May 18; Gaz. vol. 214; p. 913.
 Spring fastening device. J. Schade, Jr. No. 1,163,372; Dec. 7; Gaz. vol. 221; p. 224.
 Spring-frame construction. L. A. Young. No. 1,155,391; Oct. 5; Gaz. vol. 219; p. 23.
 Spring-jack. O. M. Glunt. No. 1,126,193; Jan. 26; Gaz. vol. 210; p. 1172.
 Spring-jack. C. H. Vanderhoof. No. 1,145,338; July 6; Gaz. vol. 216; p. 125.
 Spring-jacks, Making. F. B. Cook. No. 1,161,193; Nov. 23; Gaz. vol. 220; p. 1112.
 Spring-jaw wrench. A. O. Cunningham. No. 1,164,073; Dec. 14; Gaz. vol. 221; p. 515.
 Spring-leaf separator. J. H. Stevenson and F. Knowlson. No. 1,142,280; June 8; Gaz. vol. 215; p. 457.
 Spring-lubricating device. T. Lindenberg. No. 1,156,162; Oct. 12; Gaz. vol. 219; p. 317.
 Spring lubricator. Leaf. S. T. Easter and E. E. Cook. No. 1,147,930; July 27; Gaz. vol. 216; p. 1101.
 Spring lubricator. Leaf. P. E. Erickson. No. 1,127,214; Feb. 2; Gaz. vol. 211; p. 194.
 Spring lubricator. Leaf. P. E. Erickson. No. 1,156,070; Oct. 12; Gaz. vol. 219; p. 285.
 Spring-motor. H. S. Becker. No. 1,144,581; June 29; Gaz. vol. 215; p. 1348.
 Spring-motor. A. O. Busch. No. 1,123,241; Jan. 5; Gaz. vol. 210; p. 14.
 Spring-motor. A. F. Dixon and B. F. Merritt. No. 1,158,991; Nov. 2; Gaz. vol. 220; p. 202.
 Spring-motor. M. A. Johnson. No. 1,144,205; June 22; Gaz. vol. 215; p. 1192.
 Spring-motor. C. Schatte. No. 1,130,637; Mar. 2; Gaz. vol. 212; p. 278.
 Spring-motor. H. W. Wachtelhausen. No. 1,159,437; Nov. 9; Gaz. vol. 220; p. 391.
 Spring-mounted wheel. S. D. Wills. No. 1,136,191; Apr. 20; Gaz. vol. 213; p. 828.
 Spring-plank-locking device. J. A. Lamont. No. 1,135,591; Apr. 13; Gaz. vol. 213; p. 577.
 Spring-puller. Adjustable. W. E. Christopher. No. 1,139,488; May 18; Gaz. vol. 214; p. 695.
 Spring-repair means. J. Lock. No. 1,137,155; Apr. 27; Gaz. vol. 213; p. 1210.
 Spring-repairer. J. Ouimette. No. 1,144,945; June 29; Gaz. vol. 215; p. 1473.
 Spring-retarding device. E. V. Hartford. No. 1,128,782; Feb. 16; Gaz. vol. 211; p. 828.
 Spring-roller. R. T. Axe. No. 1,145,962; July 13; Gaz. vol. 216; p. 364.
 Spring-seat. R. D. Crippin. No. 1,155,893; Oct. 5; Gaz. vol. 219; p. 198.
 Spring-seat. W. Lewis. No. 1,164,534; Dec. 14; Gaz. vol. 221; p. 675.
 Spring-seat. J. P. Nicholls. No. 1,137,656; Apr. 27; Gaz. vol. 213; p. 1385.
 Spring-seat. O. A. Ripley. No. 1,149,292; Aug. 10; Gaz. vol. 217; p. 390.
 Spring-seat for chairs, settees, bed-couches, &c. W. Lewis. No. 1,164,535; Dec. 14; Gaz. vol. 221; p. 675.
 Spring separator. Leaf. F. Knowlson. No. 1,159,958; Nov. 9; Gaz. vol. 220; p. 578.
 Spring-shackle mounting. C. W. McKinley. No. 1,151,028; Aug. 24; Gaz. vol. 217; p. 1123.
 Spring structure. W. E. Andrew. No. 1,147,134; July 20; Gaz. vol. 216; p. 795.
 Spring structure. H. H. Buifum. No. 1,158,026; Oct. 26; Gaz. vol. 219; p. 1062.
 Spring structure. C. T. Cutlip. No. 1,159,477; Nov. 9; Gaz. vol. 220; p. 405.
 Spring structure. F. P. D'Arcy. No. 1,127,198; Feb. 2; Gaz. vol. 211; p. 188.
 Spring structure. G. A. Franz. No. 1,150,754; Aug. 17; Gaz. vol. 217; p. 970.
 Spring structure. W. R. Smith. No. 1,126,896; Feb. 2; Gaz. vol. 211; p. 81.
 Spring structure. W. R. Smith. No. 1,150,711; Aug. 17; Gaz. vol. 217; p. 955.
 Spring structure. W. R. Smith. No. 1,150,712; Aug. 17; Gaz. vol. 217; p. 956.
 Spring structure. W. R. Smith and G. A. Franz. No. 1,150,789; Aug. 17; Gaz. vol. 217; p. 982.
 Spring structure. J. B. Sweeney. No. 1,125,891; Jan. 19; Gaz. vol. 210; p. 1028.
 Spring structure. L. A. Young. No. 1,155,392; Oct. 5; Gaz. vol. 219; p. 24.
 Spring suspension. T. P. Chase and A. Ward, Jr. No. 1,149,166; Aug. 3; Gaz. vol. 217; p. 239.
 Spring suspension. A. B. Ferguson. No. 1,127,608; Feb. 9; Gaz. vol. 211; p. 370.
 Spring suspension. W. A. Pungs. No. 1,148,926; Aug. 3; Gaz. vol. 217; p. 156.
 Spring suspension. R. P. Thompson. No. 1,158,585; Nov. 2; Gaz. vol. 220; p. 62.
 Spring suspension system. A. W. Dreyfus. No. 1,140,257; May 18; Gaz. vol. 214; p. 965.
 Spring take-up. H. C. Kirk, Jr. No. 1,142,817; June 15; Gaz. vol. 215; p. 682.
 Spring telescopic spoke wheel. M. F. Lavery. No. 1,145,775; July 6; Gaz. vol. 216; p. 280.
 Spring-tension device. B. L. Brandt. No. 1,137,722; Apr. 27; Gaz. vol. 213; p. 1407.
 Spring-wheel. J. A. Adolfson. No. 1,160,119; Nov. 16; Gaz. vol. 220; p. 687.
 Spring-wheel. A. J. Anderson. No. 1,158,157; Oct. 26; Gaz. vol. 219; p. 1109.
 Spring-wheel. C. L. Andersen and L. M. Kniffin. No. 1,127,154; Feb. 2; Gaz. vol. 211; p. 173.
 Spring-wheel. P. A. Angesk. No. 1,163,195; Dec. 7; Gaz. vol. 221; p. 162.
 Spring-wheel. C. D. Backus. No. 1,162,545; Nov. 30; Gaz. vol. 220; p. 1630.
 Spring-wheel. H. E. Barrows. No. 1,133,216; Mar. 23; Gaz. vol. 212; p. 1314.
 Spring-wheel. A. N. Bartlett. No. 1,165,647; Dec. 28; Gaz. vol. 221; p. 1143.
 Spring-wheel. A. Brubaker. No. 1,125,955; Jan. 26; Gaz. vol. 210; p. 1083.
 Spring-wheel. C. Byrne. No. 1,150,995; Aug. 24; Gaz. vol. 217; p. 1111.
 Spring-wheel. D. Cave. No. 1,158,373; Oct. 26; Gaz. vol. 219; p. 1184.
 Spring-wheel. L. O. Corwin and W. M. Arnold. No. 1,138,194; May 4; Gaz. vol. 214; p. 166.
 Spring-wheel. J. E. Dawsey. No. 1,140,963; May 25; Gaz. vol. 214; p. 1249.
 Spring-wheel. C. Ekiss. No. 1,134,828; Apr. 6; Gaz. vol. 213; p. 269.
 Spring-wheel. G. E. Gay. No. 1,132,469; Mar. 16; Gaz. vol. 212; p. 993.
 Spring-wheel. W. Gebhardt. No. 1,143,183; June 15; Gaz. vol. 215; p. 812.

Alphabetical list of inventions—Continued.

- Spring-wheel. A. Gerleit. No. 1,160,981; Nov. 16; Gaz. vol. 220; p. 991.
- Spring-wheel. W. R. Gilmore. No. 1,156,771; Oct. 12; Gaz. vol. 219; p. 529.
- Spring-wheel. T. L. Good. No. 1,133,854; Mar. 30; Gaz. vol. 212; p. 1580.
- Spring-wheel. A. J. Granger. No. 1,126,447; Jan. 26; Gaz. vol. 210; p. 1262.
- Spring-wheel. C. O. Heggem. No. 1,139,282; May 11; Gaz. vol. 214; p. 586.
- Spring-wheel. J. L. Heymann. No. 1,123,875; Jan. 5; Gaz. vol. 210; p. 231.
- Spring-wheel. C. Hoff. No. 1,139,285; May 11; Gaz. vol. 214; p. 587.
- Spring-wheel. C. Hoff. No. 1,139,286; May 11; Gaz. vol. 214; p. 587.
- Spring-wheel. E. Horst. No. 1,125,688; Jan. 19; Gaz. vol. 210; p. 958.
- Spring-wheel. W. E. Keesee. No. 1,130,740; Mar. 9; Gaz. vol. 212; p. 348.
- Spring-wheel. H. W. Kirchner. No. 1,126,031; Jan. 26; Gaz. vol. 210; p. 1111.
- Spring-wheel. O. C. Koch. No. 1,133,973; Mar. 30; Gaz. vol. 212; p. 1616.
- Spring-wheel. O. C. Koch. No. 1,164,529; Dec. 14; Gaz. vol. 221; p. 673.
- Spring-wheel. J. H. Lysinger. No. 1,135,458; Apr. 13; Gaz. vol. 213; p. 530.
- Spring-wheel. A. Morgan. No. 1,156,306; Oct. 12; Gaz. vol. 219; p. 364.
- Spring-wheel. J. H. Mullin. No. 1,132,867; Mar. 23; Gaz. vol. 212; p. 1189.
- Spring-wheel. G. J. Murphy. No. 1,134,218; Apr. 6; Gaz. vol. 213; p. 49.
- Spring-wheel. G. J. Murphy. No. 1,147,534; July 20; Gaz. vol. 216; p. 935.
- Spring-wheel. M. C. Myers. No. 1,162,706; Nov. 30; Gaz. vol. 220; p. 1684.
- Spring-wheel. M. O'Connor. No. 1,166,148; Dec. 28; Gaz. vol. 221; p. 1320.
- Spring-wheel. O. C. Reiste. No. 1,143,435; June 15; Gaz. vol. 215; p. 902.
- Spring-wheel. H. F. C. Rietschel. No. 1,146,654; July 13; Gaz. vol. 216; p. 608.
- Spring-wheel. J. Sanders. No. 1,155,444; Oct. 5; Gaz. vol. 219; p. 41.
- Spring-wheel. T. Scholtz. No. 1,158,567; Nov. 2; Gaz. vol. 220; p. 56.
- Spring-wheel. E. A. Stare. No. 1,146,362; July 13; Gaz. vol. 216; p. 504.
- Spring-wheel. J. E. Strauch and J. C. Wegstein. No. 1,164,887; Dec. 21; Gaz. vol. 221; p. 838.
- Spring-wheel. T. S. Thompson. No. 1,145,718; July 6; Gaz. vol. 216; p. 261.
- Spring-wheel. L. E. Tichenor. No. 1,124,077; Jan. 5; Gaz. vol. 210; p. 299.
- Spring-wheel. H. Weidner. No. 1,135,869; Apr. 13; Gaz. vol. 213; p. 675.
- Spring-wheel. J. E. Whitt. No. 1,142,649; June 8; Gaz. vol. 215; p. 585.
- Spring-wheel. F. R. Willson. No. 1,159,309; Nov. 2; Gaz. vol. 220; p. 313.
- Spring-wheel for vehicles. C. G. Smith. No. 1,131,616; Mar. 9; Gaz. vol. 212; p. 649.
- Springs, Antifriction device for leaf. T. C. Merz. No. 1,160,309; Nov. 16; Gaz. vol. 220; p. 753.
- Springs, Antirattling device for leaf. W. E. Nickerson. No. 1,163,621; Dec. 7; Gaz. vol. 221; p. 310.
- Springs, Lubricating-strip for leaf. E. G. Dann. No. 1,143,812; June 22; Gaz. vol. 215; p. 1053.
- Springs, Machine for grinding coiled. F. H. Halstead. No. 1,142,700; June 8; Gaz. vol. 215; p. 601.
- Springs, Systematic association of cylindrical. J. Andrade. No. 1,151,432; Aug. 24; Gaz. vol. 217; p. 1257.
- Springs to slats, Means for securing. G. B. Kohler. No. 1,124,031; Jan. 5; Gaz. vol. 210; p. 283.
- Springless lock. S. Garvin. No. 1,152,723; Sept. 7; Gaz. vol. 218; p. 126.
- Sprinkler. *See—*
- Automatic sprinkler. Lawn-sprinkler.
- Bottle-sprinkler. Lawn and garden sprinkler.
- Clothes-sprinkler. Street-sprinkler.
- Flour-sprinkler.
- Sprinkler. H. E. Houston. No. 1,152,636; Sept. 7; Gaz. vol. 218; p. 94.
- Sprinkler. W. S. Tidswell. No. 1,139,086; May 11; Gaz. vol. 214; p. 519.
- Sprinkler alarm and indicator system, Automatic. F. W. Milliken. No. 1,153,400; Sept. 14; Gaz. vol. 218; p. 405.
- Sprinkler for irrigating systems. L. Morrell and J. P. Campbell. No. 1,156,612; Oct. 12; Gaz. vol. 219; p. 473.
- Sprinkler-head. O. J. Lubbock. No. 1,160,517; Nov. 16; Gaz. vol. 220; p. 825.
- Sprinkler-head. C. H. Perry. No. 1,165,202; Dec. 21; Gaz. vol. 221; p. 949.
- Sprinkler screw-cap. R. M. Hollingshead. No. 1,125,322; Jan. 19; Gaz. vol. 210; p. 827.
- Sprinkler system, Hotbed-. E. Sexton. No. 1,164,128; Dec. 14; Gaz. vol. 221; p. 533.
- Sprinkler systems, Alarm control for. C. Smith. No. 1,134,645; Apr. 6; Gaz. vol. 213; p. 205.
- Sprinkler-top for containers. W. C. Nenstiehl. No. 1,161,718; Nov. 23; Gaz. vol. 220; p. 1296.
- Sprinkler valve, Street-. F. A. Stiers. No. 1,156,326; Oct. 12; Gaz. vol. 219; p. 370.
- Sprinkling device. G. E. Jackson. No. 1,166,374; Dec. 28; Gaz. vol. 221; p. 1402.
- Sprinkling device. M. and C. G. Schneider. No. 1,144,070; June 22; Gaz. vol. 215; p. 1143.
- Sprinkling device, Automatic. J. R. Snyder. No. 1,144,619; June 29; Gaz. vol. 215; p. 1361.
- Sprinkling or spraying device. B. L. Gifford. No. 1,156,474; Oct. 12; Gaz. vol. 219; p. 425.
- Sprinkling roads, Process of and apparatus for. H. M. Nichols. No. 1,137,077; Apr. 27; Gaz. vol. 213; p. 1181.
- Sprinkling system, Automatic. W. E. Montgomery. No. 1,141,477; June 1; Gaz. vol. 215; p. 140.
- Sprocket-wheel. J. J. Flannely. No. 1,162,046; Nov. 30; Gaz. vol. 220; p. 1457.
- Sprocket-wheel. C. A. Juengst. No. 1,128,789; Feb. 16; Gaz. vol. 211; p. 831.
- Sprocket-wheel for drive-chains, Spring. F. L. Morse. No. 1,165,529; Dec. 28; Gaz. vol. 221; p. 1100.
- Spur. G. Buermann. No. 1,135,991; Apr. 20; Gaz. vol. 213; p. 759.
- Spur. T. W. S. Parsons. No. 1,130,327; Mar. 2; Gaz. vol. 212; p. 168.
- Square. E. A. King. No. 1,135,814; Apr. 13; Gaz. vol. 213; p. 656.
- Square. R. W. Requa. No. 1,139,229; May 11; Gaz. vol. 214; p. 568.
- Square. A. Turgeon. No. 1,125,770; Jan. 19; Gaz. vol. 210; p. 987.
- Square and miter-gage, Combined carpenter's. C. F. Benjamin. No. 1,158,775; Nov. 2; Gaz. vol. 220; p. 128.
- Square, Bevel-. F. O. Haga. No. 1,134,845; Apr. 6; Gaz. vol. 213; p. 274.
- Square, Bevel-. L. Spies. No. 1,126,310; Jan. 26; Gaz. vol. 210; p. 1214.
- Square, Centering-. J. W. Connery. No. 1,146,691; July 13; Gaz. vol. 216; p. 621.
- Square, Dress-cutting-. E. M. De Girard. No. 1,160,863; Nov. 16; Gaz. vol. 220; p. 950.
- Square, Folding. J. W. Pearl. No. 1,161,961; Nov. 30; Gaz. vol. 220; p. 1429.
- Square, Folding protractor-. J. Barker. No. 1,161,761; Nov. 23; Gaz. vol. 220; p. 1310.
- Square, level, and compass, Combined. B. Rudolf. No. 1,137,169; Apr. 27; Gaz. vol. 213; p. 1214.
- Square, level, and plumb device. G. Swenson. No. 1,123,952; Jan. 5; Gaz. vol. 210; p. 256.
- Square, miter, and gage tool, Combination. W. McGowan. No. 1,127,468; Feb. 9; Gaz. vol. 211; p. 323.
- Square, Sectional. G. H. Gouger. No. 1,124,224; Jan. 5; Gaz. vol. 210; p. 351.
- Square, Separable steel. J. A. Wray. No. 1,140,555; May 25; Gaz. vol. 214; p. 1107.
- Square, Set-. F. G. Allen. No. 1,146,608; July 13; Gaz. vol. 216; p. 593.
- Square, T-. J. A. Moffatt. No. 1,149,277; Aug. 10; Gaz. vol. 217; p. 384.
- Square, Take-down. F. I. Kimball. No. 1,139,189; May 11; Gaz. vol. 214; p. 655.
- Square, Take-down. H. McCleary. No. 1,126,049; Jan. 26; Gaz. vol. 210; p. 1118.
- Square, Try-. E. W. Cokely. No. 1,135,259; Apr. 13; Gaz. vol. 213; p. 460.
- Square, Try-. M. Coughlin. No. 1,151,925; Aug. 31; Gaz. vol. 217; p. 1475.
- Squares, Center-finder for center-. P. Abbott. No. 1,153,149; Sept. 7; Gaz. vol. 218; p. 276.
- Squaring negatives and plates, Machine for. V. Royle. No. 1,133,823; Mar. 30; Gaz. vol. 212; p. 1568.
- Squaring, spacing, and gluing clamp. R. C. Russell. No. 1,128,527; Feb. 16; Gaz. vol. 211; p. 741.
- Squeeze-roll. A. J. Charlton. No. 1,149,551; Aug. 10; Gaz. vol. 217; p. 482.
- Stabilizing apparatus. A. S. Chessin. No. 1,134,439; Apr. 6; Gaz. vol. 213; p. 129.
- Stack-cutting implement. W. L. Hurst. No. 1,161,682; Nov. 23; Gaz. vol. 220; p. 1284.
- Stacker, Automatic. W. G. Moffet. No. 1,162,302; Nov. 30; Gaz. vol. 220; p. 1547.
- Stacker, Blow-. C. Beyer. No. 1,125,258; Jan. 19; Gaz. vol. 210; p. 805.
- Stacker, Hay-. W. E. Arnold. No. 1,128,569; Feb. 16; Gaz. vol. 211; p. 756.
- Stacker, Hay-. M. A. Bazemore. No. 1,125,795; Jan. 19; Gaz. vol. 210; p. 996.
- Stacker, Hay-. J. E. Blansett. No. 1,139,157; May 11; Gaz. vol. 214; p. 544.
- Stacker, Hay-. J. H. Cope. No. 1,129,646; Feb. 23; Gaz. vol. 211; p. 1168.
- Stacker, Hay-. C. A. Fleming. No. 1,135,369; Apr. 13; Gaz. vol. 213; p. 498.
- Stacker, Hay-. B. Hodgman. No. 1,131,518; Mar. 9; Gaz. vol. 212; p. 615.
- Stacker mechanism. J. E. Smyth. No. 1,166,017; Dec. 28; Gaz. vol. 221; p. 1271.

- Stacker, Metallic. L. Gardella. No. 1,124,722; Jan. 12; Gaz. vol. 210; p. 578.
- Stacker, Pneumatic. V. N. Perry. No. 1,133,060; Mar. 23; Gaz. vol. 212; p. 1260.
- Stacker, Pneumatic. J. K. Sharpe, Jr. No. 1,124,539; Jan. 12; Gaz. vol. 210; p. 512.
- Stacker, Straw-. H. F. Schroder. No. 1,144,386; June 29; Gaz. vol. 215; p. 1283.
- Stacker, Wind-. T. J. Gee. No. 1,152,805; Sept. 7; Gaz. vol. 218; p. 156.
- Stackers, Hay-retainer for hay-. R. M. Baker and J. Datus. No. 1,163,123; Dec. 7; Gaz. vol. 221; p. 135.
- Stacking apparatus. W. W. Tate. No. 1,149,796; Aug. 10; Gaz. vol. 217; p. 571.
- Stacking frame, Straw-. A. L. Boughan. No. 1,145,111; July 6; Gaz. vol. 216; p. 49.
- Stacking grain or the like, Form for. G. H. Ferris. No. 1,164,486; Dec. 14; Gaz. vol. 221; p. 658.
- Stadia-transit. W. L. E. Keuffel. No. 1,154,253; Sept. 21; Gaz. vol. 218; p. 737.
- Staff-exchanger. A. Douglas. No. 1,151,167; Aug. 24; Gaz. vol. 217; p. 1169.
- Staff-holder. S. McDonald. No. 1,155,589; Oct. 5; Gaz. vol. 219; p. 91.
- Stage-footlights. A. T. Kliegl. No. 1,141,122; June 1; Gaz. vol. 215; p. 11.
- Staging, Erecting. W. L. Power. No. 1,134,061; Mar. 30; Gaz. vol. 212; p. 1646.
- Staging illusions, Apparatus for. L. McCormick. No. 1,131,151; Mar. 9; Gaz. vol. 212; p. 488.
- Stain-removing composition. G. A. Stevenot. No. 1,151,416; Aug. 24; Gaz. vol. 217; p. 1252.
- Stair construction, Metallic. W. Dowling and W. A. Schroeder. No. 1,138,642; May 11; Gaz. vol. 214; p. 360.
- Stair, Counterbalanced. E. L. Keuling. No. 1,140,833; May 25; Gaz. vol. 214; p. 1201.
- Stair, Metal. G. W. Brooks. No. 1,134,992; Apr. 13; Gaz. vol. 213; p. 369.
- Stair-rod. C. B. Post. No. 1,142,366; June 8; Gaz. vol. 215; p. 486.
- Stair-tread, Detachable. J. W. Scott and T. H. Greer. No. 1,142,372; June 8; Gaz. vol. 215; p. 489.
- Stairway, Moving. G. A. Wheeler. No. 1,130,555; Mar. 2; Gaz. vol. 212; p. 251.
- Stairway, Moving. G. A. Wheeler. No. 1,130,556; Mar. 2; Gaz. vol. 212; p. 251.
- Stairway or conveyer, Moving. A. J. Innes. No. 1,148,901; Aug. 3; Gaz. vol. 217; p. 147.
- Stake-pocket. J. L. Dahl. No. 1,160,143; Nov. 16; Gaz. vol. 220; p. 695.
- Stake-pocket. W. E. Fowler, Sr. No. 1,128,863; Feb. 16; Gaz. vol. 211; p. 857.
- Stake-pocket. L. D. Gregg. No. 1,145,479; July 6; Gaz. vol. 216; p. 177.
- Stake-pocket. C. F. Murray. No. 1,124,787; Jan. 12; Gaz. vol. 210; p. 600.
- Stake-pocket, Collapsible. W. E. Fowler, Sr. No. 1,128,864; Feb. 16; Gaz. vol. 211; p. 857.
- Stalk and straw chopper. W. W. Gray and F. P. Witzsche. No. 1,156,992; Oct. 19; Gaz. vol. 219; p. 636.
- Stalk chopping or cutting roller. C. W. Luttrell. No. 1,128,337; Feb. 16; Gaz. vol. 211; p. 676.
- Stalk-cutter. T. B. Alsop. No. 1,164,774; Dec. 21; Gaz. vol. 221; p. 799.
- Stalk-cutter. D. D. Carnes. No. 1,131,907; Mar. 16; Gaz. vol. 212; p. 788.
- Stalk-cutter. J. S. Currie. No. 1,135,363; Apr. 13; Gaz. vol. 213; p. 496.
- Stalk-cutter. E. B. Ellis and J. M. Henderson. No. 1,162,589; Nov. 30; Gaz. vol. 220; p. 1643.
- Stalk-cutter. J. H. Grove. No. 1,134,451; Apr. 6; Gaz. vol. 213; p. 134.
- Stalk-cutter. D. G. Jones. No. 1,156,234; Oct. 12; Gaz. vol. 219; p. 340.
- Stalk-cutter. C. M. Rumbough and M. C. Jones. No. 1,160,328; Nov. 16; Gaz. vol. 220; p. 759.
- Stalk-cutter. S. F. Sosebee. No. 1,128,539; Feb. 16; Gaz. vol. 211; p. 746.
- Stalk-cutter. L. E. Waterman. No. 1,150,236; Aug. 17; Gaz. vol. 217; p. 791.
- Stalk-cutter attachment. D. Yokley. No. 1,147,588; July 20; Gaz. vol. 216; p. 955.
- Stalk-cutting machine. C. R. Smith. No. 1,156,439; Oct. 12; Gaz. vol. 219; p. 413.
- Stalk-header and ensilage-cutter. W. Welch. No. 1,154,464; Sept. 21; Gaz. vol. 218; p. 810.
- Stalk-puller. E. H. Studebaker. No. 1,131,290; Mar. 9; Gaz. vol. 212; p. 536.
- Stall, Animal-. W. M. Summers. No. 1,150,315; Aug. 17; Gaz. vol. 217; p. 818.
- Stall construction. H. L. Ferris. No. 1,145,474; July 6; Gaz. vol. 216; p. 176.
- Stall construction. H. J. Ferris. No. 1,160,589; Nov. 16; Gaz. vol. 220; p. 851.
- Stall construction for animals. H. C. Rassmann. No. 1,126,566; Jan. 26; Gaz. vol. 210; p. 1307.
- Stall, Cow-. R. Gagan. No. 1,142,246; June 8; Gaz. vol. 215; p. 444.
- Stall equipment. F. W. Moldenhauer and S. E. Jones. No. 1,154,715; Sept. 28; Gaz. vol. 218; p. 924.
- Stall-partitions, Attachment for. D. J. Howell. No. 1,141,341; June 1; Gaz. vol. 215; p. 90.
- Stalls and the like, Means for supporting members of. H. L. Ferris. No. 1,124,718; Jan. 12; Gaz. vol. 210; p. 576.
- Stalls and the like, Means for supporting members of. H. L. Ferris. No. 1,151,256; Aug. 24; Gaz. vol. 217; p. 1200.
- Stamp. A. Marks. No. 1,145,430; July 6; Gaz. vol. 216; p. 158.
- Stamp-affixing instrument. A. J. Siedle and J. H. R. Yardley. No. 1,130,205; Mar. 2; Gaz. vol. 212; p. 126.
- Stamp-affixing machine. F. R. Allen. No. 1,124,577; Jan. 12; Gaz. vol. 210; p. 525.
- Stamp-affixing machine. F. R. Allen. No. 1,127,843; Feb. 9; Gaz. vol. 211; p. 455.
- Stamp-affixing machine. J. C. Strnad. No. 1,141,666; June 1; Gaz. vol. 215; p. 206.
- Stamp-affixing machine. S. B. White. No. 1,124,368; Jan. 12; Gaz. vol. 210; p. 450.
- Stamp-affixing machine, Theft-proof. L. G. H. Palmer. No. 1,156,308; Oct. 12; Gaz. vol. 219; p. 364.
- Stamp-applying machines, Stamp-supporter for cigarette-box-. J. Ibarra. No. 1,137,625; Apr. 27; Gaz. vol. 213; p. 1375.
- Stamp board, Rubber-. J. E. Rymer. No. 1,155,279; Sept. 28; Gaz. vol. 218; p. 1114.
- Stamp-canceler. R. E. Wall. No. 1,134,652; Apr. 6; Gaz. vol. 213; p. 208.
- Stamp-canceling device. F. E. Pells and J. Christensen. No. 1,127,806; Feb. 9; Gaz. vol. 211; p. 442.
- Stamp, Dating-. H. L. Freeman. No. 1,165,662; Dec. 28; Gaz. vol. 221; p. 1149.
- Stamp-delivering machine. C. West. No. 1,161,563; Nov. 23; Gaz. vol. 220; p. 1244.
- Stamp-delivery mechanism. B. D. Straight. No. 1,127,543; Feb. 9; Gaz. vol. 211; p. 348.
- Stamp, Hand-. W. H. Dodson. No. 1,142,240; June 8; Gaz. vol. 215; p. 442.
- Stamp, Hand-. H. S. Folger. No. 1,142,560; June 8; Gaz. vol. 215; p. 555.
- Stamp, Hand-. H. S. Folger. No. 1,142,561; June 8; Gaz. vol. 215; p. 556.
- Stamp, Hand-. A. J. Hellings. No. 1,143,540; June 15; Gaz. vol. 215; p. 935.
- Stamp, Hand-. T. O. Matthews. No. 1,149,849; Aug. 10; Gaz. vol. 217; p. 591.
- Stamp, Hand-. R. R. Sandham. No. 1,148,463; July 27; Gaz. vol. 216; p. 1289.
- Stamp, Hand-. L. K. Scotford. No. 1,143,445; June 15; Gaz. vol. 215; p. 905.
- Stamp, Hand-. M. G. Standley. No. 1,153,351; Sept. 14; Gaz. vol. 218; p. 387.
- Stamp-machine, Hand. F. Weldon. No. 1,148,645; Aug. 3; Gaz. vol. 217; p. 58.
- Stamp-mill. N. T. Harrington. No. 1,144,126; June 22; Gaz. vol. 215; p. 1164.
- Stamp-mill. E. H. Moyle. No. 1,137,272; Apr. 27; Gaz. vol. 213; p. 1253.
- Stamp-mounts, Reversible blank for. H. S. Folger. No. 1,142,562; June 8; Gaz. vol. 215; p. 556.
- Stamp or label affixing machine. J. C. Strnad. No. 1,129,246; Feb. 23; Gaz. vol. 211; p. 1028.
- Stamp, Printing-. A. Marks. No. 1,155,595; Oct. 5; Gaz. vol. 219; p. 94.
- Stamp-rack. H. Mendelsohn. No. 1,146,893; July 20; Gaz. vol. 216; p. 710.
- Stamp, Rubber. W. Kieke. No. 1,162,786; Dec. 7; Gaz. vol. 221; p. 19.
- Stamp, Self-inking hand-. H. S. Folger and C. L. Redfield. No. 1,132,519; Mar. 16; Gaz. vol. 212; p. 1012.
- Stamp, Self-inking hand-. H. S. Folger and C. L. Redfield. No. 1,134,950; Apr. 6; Gaz. vol. 213; p. 309.
- Stamp-stem guide. J. A. Little. No. 1,127,653; Feb. 9; Gaz. vol. 211; p. 384.
- Stamp, Time-. A. A. Radtke. No. 1,161,341; Nov. 23; Gaz. vol. 220; p. 1165.
- Stamp, Time-. J. C. Wilson. No. 1,139,247; May 11; Gaz. vol. 214; p. 573.
- Stamps and the like, Machine for delivering and affixing postage-. C. A. H. Bullock. No. 1,147,208; July 20; Gaz. vol. 216; p. 822.
- Stamps to cigarette-boxes or any other packages, Machine for cutting and pasting. J. Ibarra. No. 1,130,517; Mar. 2; Gaz. vol. 212; p. 237.
- Stamps to letters, Machine for applying postage. A. R. Paulson. No. 1,155,956; Oct. 5; Gaz. vol. 219; p. 219.
- Stamper, Hand-. R. L. Evenson. No. 1,149,508; Aug. 10; Gaz. vol. 217; p. 466.
- Stamping device. A. Donner. No. 1,129,279; Feb. 23; Gaz. vol. 211; p. 1040.
- Stamping-machine. E. Aberle. No. 1,134,431; Apr. 6; Gaz. vol. 213; p. 126.
- Stamping-machine. R. C. Dole. No. 1,148,664; Aug. 3; Gaz. vol. 217; p. 65.
- Stamping-machine. F. Webel. No. 1,127,704; Feb. 9; Gaz. vol. 211; p. 402.
- Stamping-machine. H. W. Winter. No. 1,128,209; Feb. 9; Gaz. vol. 211; p. 581.
- Stamping-machine. H. W. Winter. No. 1,137,103; Apr. 27; Gaz. vol. 213; p. 1191.

Alphabetical list of inventions—Continued.

- Stamping-machine. H. W. Winter. No. 1,149,240; Aug. 10; Gaz. vol. 217; p. 370.
- Stamping machine, Letter-. E. J. Madden. No. 1,155,591; Oct. 5; Gaz. vol. 219; p. 92.
- Stamping-machines, &c., Safety device for. K. Thulander. No. 1,133,199; Mar. 23; Gaz. vol. 212; p. 1309.
- Stamping mechanism. F. Wilkinson. No. 1,140,013; May 18; Gaz. vol. 214; p. 881.
- Stamping of letters, post-cards, and the like, Mechanism for the. F. Wilkinson. No. 1,140,014; May 18; Gaz. vol. 214; p. 881.
- Stamping or embossing machine. M. F. Wallace. No. 1,127,553; Feb. 9; Gaz. vol. 211; p. 352.
- Stamping or printing dies or plates or blocks, Manufacturing. J. Richter. No. 1,132,384; Mar. 16; Gaz. vol. 212; p. 962.
- Stamping-pad, Noiseless. J. F. Buckie. No. 1,131,904; Mar. 16; Gaz. vol. 212; p. 787.
- Stamping-press. G. Seybold. No. 1,132,689; Mar. 23; Gaz. vol. 212; p. 1122.
- Stamping-presses, Adjustable connection for. W. H. Welch. No. 1,148,641; Aug. 3; Gaz. vol. 217; p. 57.
- Stamping-presses, Safety device for power. T. Kreipe. No. 1,129,301; Feb. 23; Gaz. vol. 211; p. 1048.
- Stamping-presses, Timing-gear for. M. Rockstroh. No. 1,165,806; Dec. 28; Gaz. vol. 221; p. 1198.
- Stamping sand molds, Machine for. A. T. Drysdale. No. 1,154,238; Sept. 21; Gaz. vol. 218; p. 732.
- Stamping system, Validating. J. J. Leidigh. No. 1,152,522; Sept. 7; Gaz. vol. 218; p. 52.
- Stamping system, Validating. W. H. Muzzy. No. 1,149,395; Aug. 10; Gaz. vol. 217; p. 427.
- Stanchion. J. G. Eggars. No. 1,146,315; July 13; Gaz. vol. 216; p. 488.
- Stanchion. W. F. Jacobs. No. 1,135,526; Apr. 13; Gaz. vol. 213; p. 553.
- Stanchion. A. F. Klinzing. No. 1,128,332; Feb. 16; Gaz. vol. 211; p. 675.
- Stanchion. D. J. Love. No. 1,154,706; Sept. 28; Gaz. vol. 218; p. 921.
- Stanchion. J. F. Manning. No. 1,126,540; Jan. 26; Gaz. vol. 210; p. 1297.
- Stanchion. F. W. Moldenhauer. No. 1,129,414; Feb. 23; Gaz. vol. 211; p. 1088.
- Stanchion. G. A. Olson. No. 1,165,999; Dec. 28; Gaz. vol. 221; p. 1265.
- Stanchion. C. M. Stevenson. No. 1,132,045; Mar. 16; Gaz. vol. 212; p. 839.
- Stanchion. L. J. Young. No. 1,145,452; July 6; Gaz. vol. 216; p. 167.
- Stanchion and stall, Cow. E. L. Morgenroth. No. 1,126,829; Feb. 2; Gaz. vol. 211; p. 59.
- Stanchion, Cattle. H. and E. S. Barsness. No. 1,138,616; May 11; Gaz. vol. 214; p. 350.
- Stanchion, Cattle. H. J. Barsness. No. 1,142,135; June 8; Gaz. vol. 215; p. 406.
- Stanchion, Cattle. R. H. Buckingham. No. 1,134,255; Apr. 6; Gaz. vol. 213; p. 63.
- Stanchion, Cattle. J. C. Fitzgerald. No. 1,161,802; Nov. 23; Gaz. vol. 220; p. 1325.
- Stanchion, Cattle. G. E. Haskins. No. 1,141,630; June 1; Gaz. vol. 215; p. 193.
- Stanchion, Cattle. J. H. Levis. No. 1,152,523; Sept. 7; Gaz. vol. 218; p. 52.
- Stanchion, Cattle. W. R. Nelson. No. 1,134,150; Apr. 6; Gaz. vol. 213; p. 24.
- Stanchion, Cattle. E. F. Stanfield. No. 1,158,008; Oct. 26; Gaz. vol. 219; p. 1055.
- Stanchion for animal-pens. A. H. Neller. No. 1,163,440; Dec. 7; Gaz. vol. 221; p. 247.
- Stanchion-hanger. W. F. Weber. No. 1,163,723; Dec. 14; Gaz. vol. 221; p. 392.
- Stanchion, Self-locking swinging. T. L. Regan. No. 1,148,191; July 27; Gaz. vol. 216; p. 1195.
- Stanchion, Street-. H. Auberlin. No. 1,164,909; Dec. 21; Gaz. vol. 221; p. 845.
- Stanchion-supporting frame. W. Gutenkunst. No. 1,154,625; Sept. 28; Gaz. vol. 218; p. 894.
- Stand. *See—*
- | | |
|-----------------------------------|----------------------------------|
| Acrobat's stand. | Lamp-stand. |
| Adjustable and collapsible stand. | Lap-stand. |
| Automobile supporting-stand. | Leveling-stand. |
| Bicycle-stand. | Music-stand. |
| Cake-canister stand. | Oil-cloth stand. |
| Camera-stand. | Ornamental stand. |
| Candle-shade stand. | Plant-stand. |
| Christmas-tree stand. | Plant and flower stand. |
| Christmas-tree-supporting stand. | Railway-switch stand. |
| Cycle-stand. | Sad-iron stand. |
| Desk-stand. | Salt-stand. |
| Display-stand. | Shoe-shining stand. |
| Extensible stand. | Switch-stand. |
| Fare-box-supporting stand. | Thread-stand. |
| Golf teeing-stand. | Toilet-stand. |
| Hammock-stand. | Tub-stand. |
| Invalid's reading-stand. | Umbrella-stand. |
| Iron-stand. | Vibration-absorbing motor-stand. |
| Jack-stand. | Watch-stand. |
| | Work-stand. |
- Stand. J. W. Dunham. No. 1,130,497; Mar. 2; Gaz. vol. 212; p. 231.
- Stand-boiler and water-heater. B. F. Freymark. No. 1,164,803; Dec. 21; Gaz. vol. 221; p. 809.
- Stand-pipe and sprinkler system. W. F. Conran. No. 1,156,978; Oct. 19; Gaz. vol. 219; p. 632.
- Stand-pipe-cleaning means. H. A. Carpenter. No. 1,135,498; Apr. 13; Gaz. vol. 213; p. 544.
- Standard or pedestal. E. J. Ryan. No. 1,129,908; Mar. 2; Gaz. vol. 212; p. 26.
- Staple. L. B. Girard. No. 1,163,140; Dec. 7; Gaz. vol. 221; p. 141.
- Staple-affixing machine. G. F. Hullings and D. P. Moore. No. 1,133,862; Mar. 30; Gaz. vol. 212; p. 1582.
- Staple-affixing machine. G. F. Hullings and D. P. Moore. No. 1,136,807; Apr. 20; Gaz. vol. 213; p. 1048.
- Staple-drawing tool. J. Smith. No. 1,164,420; Dec. 14; Gaz. vol. 221; p. 635.
- Staple forming and driving machine. H. Weber. No. 1,134,303; Apr. 6; Gaz. vol. 213; p. 80.
- Staple forming and setting implement. R. E. Ford. No. 1,155,141; Sept. 28; Gaz. vol. 218; p. 1071.
- Staple-forming machine. J. Merritt and W. A. Sawyer. No. 1,165,994; Dec. 28; Gaz. vol. 221; p. 1263.
- Staple-removing apparatus. E. K. Bottle. No. 1,160,568; Nov. 16; Gaz. vol. 220; p. 844.
- Staple-retainer. L. M. Vance. No. 1,127,117; Feb. 2; Gaz. vol. 211; p. 160.
- Stapling and labelling machine. P. P. Cox. No. 1,147,846; July 27; Gaz. vol. 216; p. 1072.
- Stapling and riveting machine guide, Adjustable. H. Weber. No. 1,150,912; Aug. 24; Gaz. vol. 217; p. 1082.
- Stapling device. C. W. Dawson. No. 1,166,190; Dec. 28; Gaz. vol. 221; p. 1335.
- Stapling-machine. A. J. Beckley. No. 1,123,221; Jan. 5; Gaz. vol. 210; p. 6.
- Stapling-machine. L. and A. Goodman. No. 1,125,305; Jan. 19; Gaz. vol. 210; p. 821.
- Stapling-machine. F. Kohnle. No. 1,147,873; July 27; Gaz. vol. 216; p. 1081.
- Stapling-machine. C. J. Pfriemer. No. 1,149,944; Aug. 10; Gaz. vol. 217; p. 625.
- Stapling-machine. H. Weber. No. 1,132,990; Mar. 23; Gaz. vol. 212; p. 1234.
- Stapling-machines, Wire-feeding mechanism for. O. W. Nunn. No. 1,132,111; Mar. 16; Gaz. vol. 212; p. 862.
- Star-finder. O. F. Barcus. No. 1,150,731; Aug. 17; Gaz. vol. 217; p. 962.
- Starch, Composition of matter for use as a. C. S. Perkins. No. 1,149,216; Aug. 10; Gaz. vol. 217; p. 362.
- Starch from settling-tables, Apparatus for removing. F. L. Jefferies. No. 1,134,615; Apr. 6; Gaz. vol. 213; p. 194.
- Starch, Manufacture of. C. C. Moore. No. 1,156,801; Oct. 12; Gaz. vol. 219; p. 538.
- Starch materials, Pebbling. A. P. Anderson. No. 1,129,440; Feb. 23; Gaz. vol. 211; p. 1096.
- Starch-mold. C. F. Haug and H. E. Magnuson. No. 1,162,771; Dec. 7; Gaz. vol. 221; p. 14.
- Starch product, Making a novel. A. S. Hoyt. No. 1,148,453; July 27; Gaz. vol. 216; p. 1286.
- Starch-purifying apparatus and process. L. P. Bauer. No. 1,161,826; Nov. 30; Gaz. vol. 220; p. 1379.
- Starch-shovel. C. F. Black. No. 1,131,318; Mar. 9; Gaz. vol. 212; p. 547.
- Starch-table and apparatus for handling starch. R. F. Sherman. No. 1,147,899; July 27; Gaz. vol. 216; p. 1090.
- Starch, &c., Treating. F. P. Bergh and H. C. Neuberger. No. 1,133,914; Mar. 30; Gaz. vol. 212; p. 1598.
- Starch, Treating. C. A. Tyler. No. 1,157,738; Oct. 26; Gaz. vol. 219; p. 962.
- Starches, Apparatus for making modified. A. W. H. Lenders. No. 1,159,591; Nov. 9; Gaz. vol. 220; p. 445.
- Starches, Making modified. A. W. H. Lenders. No. 1,159,592; Nov. 9; Gaz. vol. 220; p. 445.
- Starcher, Collar and cuff. O. Froberg. No. 1,158,040; Oct. 26; Gaz. vol. 219; p. 1067.
- Starching-machine. H. J. Nicholls. No. 1,124,506; Jan. 12; Gaz. vol. 210; p. 500.
- Starter. H. T. Thomas. No. 1,142,285; June 8; Gaz. vol. 215; p. 458.
- Starter and ignition control. V. A. Fynn. No. 1,143,378; June 15; Gaz. vol. 215; p. 881.
- Starter, Geared-up. D. T. Brownlee. No. 1,156,863; Oct. 12; Gaz. vol. 219; p. 562.
- Starter, Self-. B. Christensen. No. 1,123,846; Jan. 5; Gaz. vol. 210; p. 221.
- Starting and stopping device, Automatic. F. B. Davenport. No. 1,138,458; May 4; Gaz. vol. 214; p. 259.
- Starting and stopping mechanism. N. H. Holland. No. 1,162,779; Dec. 7; Gaz. vol. 221; p. 17.
- Starting and stopping mechanism. A. E. Jerram. No. 1,124,620; Jan. 12; Gaz. vol. 210; p. 542.
- Starting and stopping mechanism. H. W. Winter. No. 1,147,202; July 20; Gaz. vol. 216; p. 820.
- Starting-box. M. Taigman. No. 1,144,876; June 29; Gaz. vol. 215; p. 1452.
- Starting-box. M. Taigman. No. 1,149,003; Aug. 3; Gaz. vol. 217; p. 183.

- Starting-box. M. Taigman. No. 1,155,290; Sept. 28; Gaz. vol. 218; p. 1117.
- Starting-box. M. Taigman. No. 1,155,291; Sept. 28; Gaz. vol. 218; p. 1117.
- Starting device. J. H. Gardner. No. 1,124,007; Jan. 5; Gaz. vol. 210; p. 274.
- Starting device. A. Simon. No. 1,125,195; Jan. 19; Gaz. vol. 210; p. 781.
- Starting device, Safety. D. P. Davies. No. 1,162,225; Nov. 30; Gaz. vol. 220; p. 1520.
- Starting device, Safety. W. J. Perkins. No. 1,145,436; July 6; Gaz. vol. 216; p. 161.
- Starting mechanism. W. R. McKeen. No. 1,159,692; Nov. 9; Gaz. vol. 220; p. 481.
- Starting mechanism. H. T. Thomas. No. 1,144,010; June 22; Gaz. vol. 215; p. 1122.
- Starting mechanism, Safety. C. McClair. No. 1,135,385; Apr. 13; Gaz. vol. 213; p. 504.
- Starting-switch. S. J. Leveen. No. 1,161,233; Nov. 23; Gaz. vol. 220; p. 1127.
- Static frequency-changer. F. Spinelli. No. 1,157,730; Oct. 26; Gaz. vol. 219; p. 959.
- Station-indicating device. W. W. Kintner. No. 1,139,424; May 11; Gaz. vol. 214; p. 636.
- Station-indicator. W. Beck. No. 1,152,139; Aug. 31; Gaz. vol. 217; p. 1549.
- Station-indicator. E. M. Peters and L. Warren. No. 1,146,514; July 13; Gaz. vol. 216; p. 561.
- Station-indicator. R. T. Rucker. No. 1,146,207; July 13; Gaz. vol. 216; p. 451.
- Station-indicator for cars, Automatic. J. Wolski. No. 1,155,694; Oct. 5; Gaz. vol. 219; p. 129.
- Station indicator, Railway. R. Grodzki and S. Ivanoff. No. 1,125,515; Jan. 19; Gaz. vol. 210; p. 895.
- Stationery device, Combination. O. Stankey. No. 1,154,736; Sept. 28; Gaz. vol. 218; p. 931.
- Stationery-holder. E. W. Gibson. No. 1,125,509; Jan. 19; Gaz. vol. 210; p. 892.
- Stature-increaser. W. M. Scholl. No. 1,152,557; Sept. 7; Gaz. vol. 218; p. 66.
- Stave-jointing machine. P. S. Reyman. No. 1,158,004; Oct. 26; Gaz. vol. 219; p. 1054.
- Stave-sander. J. J. Krohn and F. J. Davis. No. 1,136,146; Apr. 20; Gaz. vol. 213; p. 812.
- Stave tonguing and grooving machine. H. R. McNeill. No. 1,158,949; Nov. 2; Gaz. vol. 220; p. 188.
- Stay-bolt. E. I. Dodds. No. 1,131,342; Mar. 9; Gaz. vol. 212; p. 554.
- Stay-bolt. E. I. Dodds. No. 1,146,482; July 13; Gaz. vol. 216; p. 550.
- Stay-bolt. D. J. O'Brien. No. 1,128,895; Feb. 16; Gaz. vol. 211; p. 870.
- Stay-bolt. C. A. Seley. No. 1,165,456; Dec. 28; Gaz. vol. 221; p. 1076.
- Stay-bolt. H. V. Wille. No. 1,154,468; Sept. 21; Gaz. vol. 218; p. 811.
- Stay-bolt. H. V. Wille. No. 1,154,469; Sept. 21; Gaz. vol. 218; p. 811.
- Stay-bolt. H. V. Wille. (Reissue.) No. 1,4036; Dec. 21; Gaz. vol. 221; p. 1010.
- Stay-bolt, Flexible. P. F. Gallagher. No. 1,137,600; Apr. 27; Gaz. vol. 213; p. 1367.
- Stay-bolt for locomotive and other boilers, Fire-box. E. I. Dodds. No. 1,146,481; July 13; Gaz. vol. 216; p. 550.
- Stay-bolt machines, Dethreading attachment for. S. L. Gary. No. 1,131,364; Mar. 9; Gaz. vol. 212; p. 561.
- Stay-bolts, Apparatus for making rolled. H. K. Adams. No. 1,123,460; Jan. 5; Gaz. vol. 210; p. 90.
- Stay-bolts, Cap for flexible. B. E. D. Stafford. No. 1,153,458; Sept. 14; Gaz. vol. 218; p. 426.
- Stay clasp, Garment-. A. C. Holly. No. 1,165,173; Dec. 21; Gaz. vol. 221; p. 939.
- Stay, Compound binding-. H. De Haven. No. 1,128,952; Feb. 16; Gaz. vol. 211; p. 891.
- Stay for corsets, collars, &c. C. J. McLeod. No. 1,142,045; June 8; Gaz. vol. 215; p. 373.
- Stay, Garment-. J. R. Dean. No. 1,162,718; Nov. 30; Gaz. vol. 220; p. 1685.
- Stay, Garment-. J. W. Hatch. No. 1,163,006; Dec. 7; Gaz. vol. 221; p. 95.
- Stay, Garment-. E. L. Hyde. No. 1,142,565; June 8; Gaz. vol. 215; p. 557.
- Stay, Protected wire garment-. G. A. Barclay. No. 1,124,582; Jan. 12; Gaz. vol. 210; p. 527.
- Stay-strip. C. H. Crowell. No. 1,149,344; Aug. 10; Gaz. vol. 217; p. 410.
- Stay-strip. C. H. Crowell. No. 1,150,418; Aug. 17; Gaz. vol. 217; p. 854.
- Stay, Wire garment-. G. A. Barclay. No. 1,150,327; Aug. 17; Gaz. vol. 217; p. 823.
- Stays and applying tips thereto, Device for cutting. M. B. Gardner. No. 1,137,396; Apr. 27; Gaz. vol. 213; p. 1298.
- Stays in corsets, Machine for inserting. E. E. Norton. No. 1,154,200; Sept. 21; Gaz. vol. 218; p. 718.
- Stays, Machine for applying tips to garment-. M. D. Watrous. No. 1,139,608; May 18; Gaz. vol. 214; p. 736.
- Stays, Machine for forming wire. J. F. Kitchen. (Reissue.) No. 13,904; Apr. 27; Gaz. vol. 213; p. 1408.
- Stays, Machine for making wire garment-. F. L. O. Wadsworth. No. 1,123,824; Jan. 5; Gaz. vol. 210; p. 214.
- Stays, Making garment-. J. F. Kitchen. No. 1,123,893; Jan. 5; Gaz. vol. 210; p. 237.
- Stays, Making garment-. F. L. O. Wadsworth. No. 1,123,821; Jan. 5; Gaz. vol. 210; p. 213.
- Stays, Making garment-. F. L. O. Wadsworth. No. 1,123,822; Jan. 5; Gaz. vol. 210; p. 213.
- Stays, Making garment-. F. L. O. Wadsworth. No. 1,123,823; Jan. 5; Gaz. vol. 210; p. 213.
- Steak-pounder. H. E. Rose. No. 1,145,267; July 6; Gaz. vol. 216; p. 102.
- Steam and heating water, Apparatus for cleansing. D. B. Morison. No. 1,163,437; Dec. 7; Gaz. vol. 221; p. 246.
- Steam and other fluid-pressure engine. W. Werry. No. 1,153,588; Sept. 14; Gaz. vol. 218; p. 474.
- Steam and water mixer, Noiseless. G. A. Weld. No. 1,152,459; Sept. 7; Gaz. vol. 218; p. 27.
- Steam-boiler. J. H. Biglow. No. 1,142,229; June 8; Gaz. vol. 215; p. 438.
- Steam-boiler. J. H. Bodinger. No. 1,144,995; July 6; Gaz. vol. 216; p. 5.
- Steam-boiler. J. G. Broman. No. 1,165,064; Dec. 21; Gaz. vol. 221; p. 899.
- Steam-boiler. C. W. Crowell. No. 1,159,180; Nov. 2; Gaz. vol. 220; p. 268.
- Steam-boiler. G. Dunster. No. 1,151,348; Aug. 24; Gaz. vol. 217; p. 1230.
- Steam-boiler. T. A. Killman. No. 1,152,421; Sept. 7; Gaz. vol. 218; p. 14.
- Steam-boiler. P. McLoon. No. 1,135,908; Apr. 13; Gaz. vol. 213; p. 688.
- Steam-boiler. E. C. Meier. No. 1,159,783; Nov. 9; Gaz. vol. 220; p. 515.
- Steam-boiler. W. A. Moffat. No. 1,166,238; Dec. 28; Gaz. vol. 221; p. 1354.
- Steam-boiler. C. D. Mosher. No. 1,150,951; Aug. 24; Gaz. vol. 217; p. 1097.
- Steam-boiler. J. P. Neff. No. 1,138,057; May 4; Gaz. vol. 214; p. 118.
- Steam-boiler. M. W. Sewall. No. 1,140,406; May 25; Gaz. vol. 214; p. 1053.
- Steam-boiler. M. W. Sewall. No. 1,161,985; Nov. 30; Gaz. vol. 220; p. 1436.
- Steam-boiler. H. A. Tubbs. No. 1,132,985; Mar. 23; Gaz. vol. 212; p. 1232.
- Steam-boiler and furnace. T. Kerner. No. 1,132,778; Mar. 23; Gaz. vol. 212; p. 1156.
- Steam-boiler of the vertical-water-tube type. H. Wilkinson. No. 1,152,135; Aug. 31; Gaz. vol. 217; p. 1548.
- Steam-condensers, Apparatus relating to the withdrawal of air and water from. D. B. Morison. No. 1,130,319; Mar. 2; Gaz. vol. 212; p. 165.
- Steam-condensing. Multistage. P. A. Bancel. No. 1,143,349; June 15; Gaz. vol. 215; p. 871.
- Steam cut-off. C. G. Alenius. No. 1,152,589; Sept. 7; Gaz. vol. 218; p. 78.
- Steam, Device for regulating the temperature of superheated. K. Guthardt. No. 1,141,956; June 8; Gaz. vol. 215; p. 341.
- Steam-engine. E. J. Armstrong. No. 1,164,972; Dec. 21; Gaz. vol. 221; p. 868.
- Steam-engine. J. M. Clark. No. 1,152,488; Sept. 7; Gaz. vol. 218; p. 38.
- Steam-engine. P. R. Ditsler. No. 1,165,579; Dec. 28; Gaz. vol. 221; p. 1117.
- Steam-engine. M. A. Green. No. 1,160,069; Nov. 9; Gaz. vol. 220; p. 614.
- Steam-engine. C. A. Hartung. No. 1,155,810; Oct. 5; Gaz. vol. 219; p. 170.
- Steam-engine. E. Luginbuhl. No. 1,132,782; Mar. 23; Gaz. vol. 212; p. 1158.
- Steam-engine. E. McFee. No. 1,155,939; Oct. 5; Gaz. vol. 219; p. 213.
- Steam-engine. G. E. Quigley. No. 1,163,452; Dec. 7; Gaz. vol. 221; p. 251.
- Steam-engine. R. C. Stevens. No. 1,132,226; Mar. 16; Gaz. vol. 212; p. 905.
- Steam-engine. R. C. Stevens. No. 1,157,440; Oct. 19; Gaz. vol. 219; p. 796.
- Steam-engine. L. Skinner. No. 1,159,112; Nov. 2; Gaz. vol. 220; p. 242.
- Steam-gage. T. G. Mouat. No. 1,128,805; Feb. 16; Gaz. vol. 211; p. 836.
- Steam, gas, and hot-water heater, Combined. N. U. Peris. No. 1,153,130; Sept. 7; Gaz. vol. 218; p. 270.
- Steam, Generating. H. L. Doherty. No. 1,154,910; Sept. 28; Gaz. vol. 218; p. 989.
- Steam-generating apparatus. A. A. E. Sterzing. No. 1,129,914; Mar. 2; Gaz. vol. 212; p. 28.
- Steam-generating boiler. L. D. Lovekin. No. 1,128,700; Feb. 16; Gaz. vol. 211; p. 800.
- Steam-generating system. F. C. Peterson. No. 1,144,059; June 22; Gaz. vol. 215; p. 1140.
- Steam-generator. R. L. Dailey. No. 1,161,199; Nov. 23; Gaz. vol. 220; p. 1114.
- Steam-generator. E. Harrison. No. 1,142,420; June 8; Gaz. vol. 215; p. 507.
- Steam-generator. H. C. Heaton. No. 1,137,137; Apr. 27; Gaz. vol. 213; p. 1203.
- Steam-generator. W. E. McKee. No. 1,152,898; Sept. 7; Gaz. vol. 218; p. 191.
- Steam-generator. W. Mitchell. No. 1,139,430; May 11; Gaz. vol. 214; p. 639.

Alphabetical list of inventions—Continued.

- Steam-generator. W. Mitchell. No. 1,139,431; May 11; Gaz. vol. 214; p. 639.
- Steam-generator. W. Mitchell. No. 1,141,071; May 25; Gaz. vol. 214; p. 1283.
- Steam-generator. E. Piolock. No. 1,129,600; Feb. 23; Gaz. vol. 211; p. 1154.
- Steam-generator. W. Platz. No. 1,153,442; Sept. 14; Gaz. vol. 218; p. 421.
- Steam-generator. E. Rector. No. 1,132,617; Mar. 23; Gaz. vol. 212; p. 1096.
- Steam-generator. J. H. Rosenthal. No. 1,132,036; Mar. 16; Gaz. vol. 212; p. 836.
- Steam-generator. J. M. Stabel. No. 1,127,536; Feb. 9; Gaz. vol. 211; p. 345.
- Steam-generator. G. E. Warren. No. 1,152,579; Sept. 7; Gaz. vol. 218; p. 74.
- Steam-generator, Electrical. W. I. Thomson. No. 1,148,808; Aug. 3; Gaz. vol. 217; p. 117.
- Steam-generator feed apparatus and appertaining mechanism. T. F. Budge. No. 1,148,075; July 27; Gaz. vol. 216; p. 1153.
- Steam-generator, Internal-combustion. G. H. Sands. No. 1,154,131; Sept. 21; Gaz. vol. 218; p. 695.
- Steam-generator, Quick-acting. W. Schmidt. No. 1,166,007; Dec. 28; Gaz. vol. 221; p. 1268.
- Steam-generator, Slag. L. L. Battu. No. 1,135,984; Apr. 20; Gaz. vol. 213; p. 757.
- Steam-generator, Slag. L. L. Battu. No. 1,145,178; July 6; Gaz. vol. 216; p. 71.
- Steam-generator, Slag. C. H. Smoot. No. 1,127,690; Feb. 9; Gaz. vol. 211; p. 397.
- Steam-generator, Slag-heated. U. Wedge. No. 1,129,928; Mar. 2; Gaz. vol. 212; p. 33.
- Steam-generators, Heat-transmitting elements of. K. zu Loewenstein. No. 1,162,626; Nov. 30; Gaz. vol. 220; p. 1654.
- Steam-jet furnace. T. Langer. No. 1,124,035; Jan. 5; Gaz. vol. 210; p. 284.
- Steam-joint. M. J. Roach. No. 1,135,720; Apr. 13; Gaz. vol. 213; p. 623.
- Steam-meter. R. Burnham. No. 1,145,860; July 6; Gaz. vol. 216; p. 309.
- Steam-meter. J. M. Spitzglass. No. 1,127,692; Feb. 9; Gaz. vol. 211; p. 397.
- Steam, Method of and apparatus for regulating the temperature of superheated. D. S. Jacobus. No. 1,149,265; Aug. 10; Gaz. vol. 217; p. 380.
- Steam, Method of and apparatus for utilizing the energy of. P. A. Bancel. No. 1,143,348; June 15; Gaz. vol. 215; p. 870.
- Steam-purifier. C. J. Ulrici. No. 1,147,463; July 20; Gaz. vol. 216; p. 912.
- Steam-regenerative accumulator. L. P. L. Battu. No. 1,140,435; May 25; Gaz. vol. 214; p. 1063.
- Steam-regenerator. L. L. Battu. No. 1,128,837; Feb. 16; Gaz. vol. 211; p. 849.
- Steam-regenerator. H. McNulta. No. 1,129,217; Feb. 23; Gaz. vol. 211; p. 1018.
- Steam-reverse, Automatic. J. W. Abbott. No. 1,126,331; Jan. 26; Gaz. vol. 210; p. 1221.
- Steam-rollers, Asphalt-cutter attachment for. C. J. Schulz. No. 1,153,137; Sept. 7; Gaz. vol. 218; p. 272.
- Steam-separator. C. Armstrong. No. 1,139,150; May 11; Gaz. vol. 214; p. 542.
- Steam-separator. W. A. Carew. No. 1,129,638; Feb. 23; Gaz. vol. 211; p. 1166.
- Steam-separator. H. H. Tracy. No. 1,124,556; Jan. 12; Gaz. vol. 210; p. 518.
- Steam-trap. G. W. De Lancey. No. 1,150,503; Aug. 17; Gaz. vol. 217; p. 884.
- Steam-trap. J. M. Higgins. No. 1,156,684; Oct. 12; Gaz. vol. 219; p. 499.
- Steam-trap. C. B. Howard. No. 1,132,184; Mar. 16; Gaz. vol. 212; p. 889.
- Steam-trap. J. Kranz. No. 1,123,316; Jan. 5; Gaz. vol. 210; p. 41.
- Steam-trap. F. A. Littlefield. No. 1,141,249; June 1; Gaz. vol. 215; p. 56.
- Steam-trap. F. A. Littlefield. No. 1,148,459; July 27; Gaz. vol. 216; p. 1288.
- Steam-trap. F. A. Littlefield. No. 1,150,778; Aug. 17; Gaz. vol. 217; p. 978.
- Steam-trap. F. A. Littlefield. No. 1,153,125; Sept. 7; Gaz. vol. 218; p. 268.
- Steam-trap. G. W. Long and W. K. Simpson. No. 1,123,770; Jan. 5; Gaz. vol. 210; p. 196.
- Steam-trap. J. F. McElroy. No. 1,145,909; July 13; Gaz. vol. 216; p. 346.
- Steam-trap. J. F. McElroy. No. 1,145,910; July 13; Gaz. vol. 216; p. 346.
- Steam-trap. C. A. Nunez. No. 1,143,550; June 15; Gaz. vol. 215; p. 939.
- Steam-trap. W. H. and J. B. Shainline. No. 1,164,964; Dec. 21; Gaz. vol. 221; p. 865.
- Steam-trap. C. Stickley. No. 1,143,329; June 15; Gaz. vol. 215; p. 864.
- Steam-trap. W. R. Templeton. No. 1,130,349; Mar. 2; Gaz. vol. 212; p. 176.
- Steam-trap. W. L. Wilcox and T. G. Rakestraw. No. 1,137,102; Apr. 27; Gaz. vol. 213; p. 1190.
- Steam-trap and fluid-coupling therefor. F. A. Littlefield. No. 1,164,537; Dec. 14; Gaz. vol. 221; p. 676.
- Steam-trap and valve therefor. F. A. Littlefield. No. 1,156,032; Oct. 5; Gaz. vol. 219; p. 245.
- Steam-vulcanizer. E. N. Brown. No. 1,151,924; Aug. 31; Gaz. vol. 217; p. 1475.
- Steamer, Cooking-. E. C. Evans. No. 1,152,308; Aug. 31; Gaz. vol. 217; p. 1607.
- Steamer, Face-. D. S. Daily. No. 1,132,243; Mar. 16; Gaz. vol. 212; p. 912.
- Steamer or bath, Facial. G. W. Caldwell. No. 1,148,953; Aug. 3; Gaz. vol. 217; p. 165.
- Steaming apparatus. J. H. Boyles. No. 1,141,760; June 1; Gaz. vol. 215; p. 237.
- Steaming apparatus. H. D. Walker. No. 1,132,135; Mar. 16; Gaz. vol. 212; p. 872.
- Steaming device. H. Gemignani. No. 1,124,884; Jan. 12; Gaz. vol. 210; p. 636.
- Steel and producing high phosphorus slag. Refining. A. Vögler. No. 1,137,681; Apr. 27; Gaz. vol. 213; p. 1393.
- Steel articles, Hardening apparatus for thin. W. E. Nickerson. No. 1,129,112; Feb. 23; Gaz. vol. 211; p. 982.
- Steel gears, Making hardened-. F. H. Farmer. No. 1,152,157; Aug. 31; Gaz. vol. 217; p. 1556.
- Steel, Hardening. W. E. Nickerson. No. 1,129,113; Feb. 23; Gaz. vol. 211; p. 982.
- Steel ingots, Mold and core for hollow. J. T. Whiteley. No. 1,159,632; Nov. 9; Gaz. vol. 220; p. 460.
- Steel, Making. A. C. Dinkey. No. 1,162,755; Dec. 7; Gaz. vol. 221; p. 8.
- Steel, Making. G. E. Weissenburger. No. 1,140,550; May 25; Gaz. vol. 214; p. 1105.
- Steel manufacture. E. F. Kenney. No. 1,137,144; Apr. 27; Gaz. vol. 213; p. 1206.
- Steel, Manufacture of. J. I. Brown. No. 1,156,051; Oct. 12; Gaz. vol. 219; p. 279.
- Steel, Manufacture of. W. R. Walker. (Reissue.) No. 1,3861; Jan. 5; Gaz. vol. 210; p. 364.
- Steel, Manufacture of. W. R. Walker. No. 1,155,849; Oct. 5; Gaz. vol. 219; p. 184.
- Steel or iron sheets, Bluing. J. E. Carnahan. No. 1,141,770; June 1; Gaz. vol. 215; p. 240.
- Steel or iron sheets, Oxidizing. J. E. Carnahan and A. J. Maskrey. No. 1,141,769; June 1; Gaz. vol. 215; p. 240.
- Steel or iron sheets, Oxidizing. A. J. Maskrey. No. 1,141,719; June 1; Gaz. vol. 215; p. 224.
- Steel sheets and plates, Heat-treating rolled. G. A. White. No. 1,144,884; June 29; Gaz. vol. 215; p. 1455.
- Steel studding, Machine for manufacturing. E. Wiet. No. 1,141,595; June 1; Gaz. vol. 215; p. 181.
- Steel tie and fastener. G. P. Dibel and M. Black. No. 1,163,646; Dec. 14; Gaz. vol. 221; p. 363.
- Steel tower or derrick. L. C. Moore. No. 1,151,810; Aug. 31; Gaz. vol. 217; p. 1436.
- Steel, Treating. C. H. A. F. L. Ross. No. 1,151,049; Aug. 24; Gaz. vol. 217; p. 1129.
- Steel, Treatment of. F. Giolitti. No. 1,144,034; June 22; Gaz. vol. 215; p. 1132.
- Steel, Vacuum process for production of. E. Dolensky. No. 1,131,488; Mar. 9; Gaz. vol. 212; p. 605.
- Steel wheel. W. E. Williams. No. 1,131,882; Mar. 16; Gaz. vol. 212; p. 780.
- Steel wheel. W. E. Williams. No. 1,131,883; Mar. 16; Gaz. vol. 212; p. 780.
- Steering and braking mechanism, Combined. H. R. Curwen. No. 1,148,291; July 27; Gaz. vol. 216; p. 1229.
- Steering and propelling mechanism for menhaden-fishing boats. C. S. Overton. No. 1,124,645; Jan. 12; Gaz. vol. 210; p. 551.
- Steering and propelling mechanism for vessels. E. Stöckemann. No. 1,131,287; Mar. 9; Gaz. vol. 212; p. 535.
- Steering apparatus. H. A. Lardner and G. F. Chellis. No. 1,144,552; June 29; Gaz. vol. 215; p. 1339.
- Steering arm and post. D. E. Ross. No. 1,136,557; Apr. 20; Gaz. vol. 213; p. 959.
- Steering device. D. Allen. No. 1,144,278; June 22; Gaz. vol. 215; p. 1218.
- Steering device. W. W. Hunt. No. 1,164,522; Dec. 14; Gaz. vol. 221; p. 671.
- Steering device. C. W. Linscott. No. 1,160,296; Nov. 16; Gaz. vol. 220; p. 748.
- Steering-drive, Traction-wheel. J. L. Ware. No. 1,155,850; Oct. 5; Gaz. vol. 219; p. 184.
- Steering-gear. F. D. Carrico. No. 1,123,483; Jan. 5; Gaz. vol. 210; p. 98.
- Steering-gear. S. Kuzdzial. No. 1,157,231; Oct. 19; Gaz. vol. 219; p. 722.
- Steering-gear. C. H. Richardson. No. 1,151,717; Aug. 31; Gaz. vol. 217; p. 1402.
- Steering-gear. D. E. Ross. No. 1,136,556; Apr. 20; Gaz. vol. 213; p. 959.
- Steering-gear. D. E. Ross. No. 1,157,123; Oct. 19; Gaz. vol. 219; p. 683.
- Steering-gear. T. D. Stanley. No. 1,142,877; June 8; Gaz. vol. 215; p. 490.
- Steering-gear. W. S. Wilkinson. No. 1,155,181; Sept. 28; Gaz. vol. 218; p. 1085.
- Steering gear attachment. A. C. Savidge. No. 1,131,796; Mar. 16; Gaz. vol. 212; p. 750.
- Steering-gear for road-machines. D. C. Boyd. No. 1,130,471; Mar. 2; Gaz. vol. 212; p. 221.
- Steering-gear, Ship. N. Wilkinson. No. 1,155,022; Sept. 28; Gaz. vol. 218; p. 1027.

Alphabetical list of inventions—Continued.

- Steering-gear, Ship's. J. R. Clay. No. 1,128,661; Feb. 16; Gaz. vol. 211; p. 788.
- Steering mechanism. W. A. Besserdich. No. 1,152,874; Sept. 7; Gaz. vol. 218; p. 182.
- Steering mechanism. E. D. Clapp. No. 1,139,399; May 11; Gaz. vol. 214; p. 627.
- Steering mechanism. C. B. King, B. Jacoby, and C. S. Johnson. No. 1,126,229; Jan. 26; Gaz. vol. 210; p. 1185.
- Steering mechanism, Automatic. K. Dougan. No. 1,154,103; Sept. 21; Gaz. vol. 218; p. 686.
- Steering mechanism, Automatic. J. J. Woodruff and J. Kosetky. No. 1,151,145; Aug. 24; Gaz. vol. 217; p. 1162.
- Steering mechanism for ships. G. A. Heinze. No. 1,136,332; Apr. 20; Gaz. vol. 213; p. 878.
- Steering mechanism, Gyroscopic. W. Dieter. No. 1,153,678; Sept. 14; Gaz. vol. 218; p. 503.
- Steering mechanism, Wireless-controlled. K. Dougan. No. 1,151,867; Aug. 31; Gaz. vol. 217; p. 1456.
- Steering-pole, Adjustable. H. Griep, Jr. No. 1,126,755; Feb. 2; Gaz. vol. 211; p. 32.
- Steering-post lock. K. Oppermann. No. 1,146,346; July 13; Gaz. vol. 216; p. 499.
- Steering-rim, Electrically-heated. R. S. Smith. No. 1,125,889; Jan. 19; Gaz. vol. 210; p. 1027.
- Steering-rod appliance. W. Lowe. No. 1,146,631; July 13; Gaz. vol. 216; p. 601.
- Steering-wheel. J. Bjorn. No. 1,140,943; May 25; Gaz. vol. 214; p. 1241.
- Steering-wheel. J. M. Custer. No. 1,129,852; Mar. 2; Gaz. vol. 212; p. 7.
- Steering-wheel. L. P. Halladay. No. 1,159,019; Nov. 2; Gaz. vol. 220; p. 210.
- Steering-wheel. H. A. Hart. No. 1,148,702; June 22; Gaz. vol. 215; p. 1016.
- Steering-wheel. M. M. Horowitz. No. 1,125,539; Jan. 19; Gaz. vol. 210; p. 903.
- Steering-wheel. E. J. Lobdell. No. 1,146,184; July 13; Gaz. vol. 216; p. 443.
- Steering-wheel attachment. V. A. Asplund. No. 1,128,088; Feb. 9; Gaz. vol. 211; p. 540.
- Steering-wheel lock. N. Smith. No. 1,142,764; June 8; Gaz. vol. 215; p. 624.
- Steering-wheel-lock mechanism. A. G. Neville. No. 1,161,954; Nov. 30; Gaz. vol. 220; p. 1426.
- Steering-wheel, Tilting. E. J. Lobdell and O. K. Snyder. No. 1,147,030; July 20; Gaz. vol. 216; p. 760.
- Steering-wheels, Warmer for. C. T. Schroyer. No. 1,129,236; Feb. 23; Gaz. vol. 211; p. 1025.
- Stencil. E. D. Belknap. No. 1,134,094; Apr. 6; Gaz. vol. 213; p. 5.
- Stencil. F. M. West. No. 1,134,571; Apr. 6; Gaz. vol. 213; p. 178.
- Stencil-card. E. D. Belknap. No. 1,134,095; Apr. 6; Gaz. vol. 213; p. 5.
- Stencil-cutting machine. T. Birkenmaier. No. 1,149,151; Aug. 3; Gaz. vol. 217; p. 233.
- Stencil-cutting machine. S. Elliott. No. 1,163,744; Dec. 14; Gaz. vol. 221; p. 399.
- Stencil-cutting machine. G. Remnsnider. No. 1,131,956; Mar. 16; Gaz. vol. 212; p. 806.
- Stencil-cutting machine. G. Remnsnider. No. 1,164,750; Dec. 21; Gaz. vol. 221; p. 790.
- Stencil-cutting-machine feed device. F. A. Johnson. No. 1,138,759; May 11; Gaz. vol. 214; p. 402.
- Stencil-plate and record-card, Combined. C. D. Palmer. No. 1,136,972; Apr. 27; Gaz. vol. 213; p. 1142.
- Stencil, Preparing a. A. B. Dick. No. 1,146,852; July 20; Gaz. vol. 216; p. 696.
- Stencil-sheets for typing, Preparing. A. B. Dick. No. 1,161,459; Nov. 23; Gaz. vol. 220; p. 1208.
- Stencil-sheets, Forming. H. P. Elliott. No. 1,136,591; Apr. 20; Gaz. vol. 213; p. 972.
- Stencil-strips, Machine for making. S. Elliott. No. 1,140,889; May 25; Gaz. vol. 214; p. 1222.
- Stencils, Making. A. B. Dick. No. 1,146,853; July 20; Gaz. vol. 216; p. 696.
- Stenciling apparatus. H. Lehmkuhl. No. 1,142,106; June 8; Gaz. vol. 215; p. 396.
- Stenciling-machine, Electrically-heated. E. N. Chandler. No. 1,144,809; June 29; Gaz. vol. 215; p. 1429.
- Stenciling-machines, Offset-preventing device for. J. E. Shaver, Jr. No. 1,139,380; May 11; Gaz. vol. 214; p. 620.
- Stenciling material. C. F. Green. No. 1,127,986; Feb. 9; Gaz. vol. 211; p. 504.
- Stenotype-keyboard. A. M. Anderson. No. 1,143,160; June 15; Gaz. vol. 215; p. 803.
- Stentering-machine clip. A. A. Whitley. No. 1,141,081; May 25; Gaz. vol. 214; p. 1287.
- Stentering-machines, Apparatus for guiding fabrics into. T. Cook and G. Durrant. No. 1,132,562; Mar. 23; Gaz. vol. 212; p. 1075.
- Step and repeat machine. H. M. Pilkington. No. 1,131,631; Mar. 9; Gaz. vol. 212; p. 655.
- Step and repeat machine. L. J. R. Holst and O. Chouinard. No. 1,131,629; Mar. 9; Gaz. vol. 212; p. 654.
- Step and repeat machine. A. H. Motley, Jr., and O. Chouinard. No. 1,131,630; Mar. 9; Gaz. vol. 212; p. 655.
- Step and repeat machines, Setting. H. M. Pilkington. No. 1,131,632; Mar. 9; Gaz. vol. 212; p. 656.
- Step, Extensible. W. Gray. No. 1,163,529; Dec. 7; Gaz. vol. 221; p. 277.
- Step, Extension-. J. M. Kelly. No. 1,146,429; July 13; Gaz. vol. 216; p. 529.
- Step, Extended. L. T. Jack. No. 1,141,800; June 1; Gaz. vol. 215; p. 250.
- Step, Folding. L. N. Woolard. No. 1,128,212; Feb. 9; Gaz. vol. 211; p. 582.
- Step-mold. W. P. Stubblefield. No. 1,147,826; July 27; Gaz. vol. 216; p. 1063.
- Step-mold. W. L. Stubblefield. No. 1,153,462; Sept. 14; Gaz. vol. 218; p. 427.
- Step-tread. J. F. Clarke. No. 1,157,083; Oct. 19; Gaz. vol. 219; p. 669.
- Stereo-isobryograph. W. Bauersfeld. No. 1,151,996; Aug. 31; Gaz. vol. 217; p. 1499.
- Stereopticon. W. M. Fischbach. No. 1,142,158; June 8; Gaz. vol. 215; p. 413.
- Stereopticon and panoramic projecting-machine, Combined. F. H. White. No. 1,154,819; Sept. 28; Gaz. vol. 218; p. 959.
- Stereopticons, Picture-slide controller for. V. Frederiksen. No. 1,141,456; June 1; Gaz. vol. 215; p. 132.
- Stereoscope. H. E. Richmond. No. 1,157,419; Oct. 19; Gaz. vol. 219; p. 789.
- Stereotaxic apparatus. R. H. Clarke. No. 1,129,333; Feb. 23; Gaz. vol. 211; p. 1058.
- Stereotype apparatus. C. E. Hopkins. No. 1,160,985; Nov. 16; Gaz. vol. 220; p. 993.
- Stereotype-matrices, Making. H. A. W. Wood. No. 1,127,340; Feb. 2; Gaz. vol. 211; p. 235.
- Stereotype-plate. R. T. Johnston. No. 1,126,768; Feb. 2; Gaz. vol. 211; p. 37.
- Stereotype-plate boring and cutting machine. H. F. Bechman. No. 1,129,947; Mar. 2; Gaz. vol. 212; p. 39.
- Stereotype-plate-cooling machine. H. A. W. Wood. No. 1,134,799; Apr. 6; Gaz. vol. 213; p. 262.
- Stereotype-plate finishing and cooling machine. R. T. Johnston. No. 1,126,771; Feb. 2; Gaz. vol. 211; p. 37.
- Stereotype-plate finishing and cooling machine. R. T. Johnston. No. 1,126,772; Feb. 2; Gaz. vol. 211; p. 38.
- Stereotype-plate finishing and cooling machine. R. T. Johnston. No. 1,126,773; Feb. 2; Gaz. vol. 211; p. 38.
- Stereotype-plate finishing and cooling machine. H. A. W. Wood. No. 1,134,798; Apr. 6; Gaz. vol. 213; p. 261.
- Stereotype-plate-finishing machine. R. T. Johnston. No. 1,126,769; Feb. 2; Gaz. vol. 211; p. 37.
- Stereotype-plate-transferring device. R. T. Johnston. No. 1,147,733; July 27; Gaz. vol. 216; p. 1032.
- Stereotype-plates, Gravity cooling device for. H. A. W. Wood. No. 1,150,475; Aug. 17; Gaz. vol. 217; p. 874.
- Sterilization of flushing by ultra-violet rays, Apparatus for. M. von Recklinghausen. No. 1,156,947; Oct. 19; Gaz. vol. 219; p. 620.
- Sterilizer. D. W. Brooks. No. 1,133,088; Mar. 23; Gaz. vol. 212; p. 1268.
- Sterilizer. O. L. Wilson. No. 1,149,010; Aug. 3; Gaz. vol. 217; p. 186.
- Sterilizers, Drinking-glass holder for. P. S. Graves and J. I. Olivetti. No. 1,161,657; Nov. 23; Gaz. vol. 220; p. 1275.
- Sterilizing apparatus. H. W. Lowe. No. 1,151,025; Aug. 24; Gaz. vol. 217; p. 1120.
- Sterilizing apparatus. M. von Recklinghausen. No. 1,156,948; Oct. 19; Gaz. vol. 219; p. 620.
- Sterilizing device. R. A. Kiefer. No. 1,123,889; Jan. 5; Gaz. vol. 210; p. 235.
- Sterilizing-machine. W. B. Fenn. No. 1,141,240; June 1; Gaz. vol. 215; p. 53.
- Sterilizing-machine. H. W. Lowe. No. 1,157,017; Oct. 19; Gaz. vol. 219; p. 646.
- Sterilizing-machines, Treating-chamber for. W. B. Fenn. No. 1,141,241; June 1; Gaz. vol. 215; p. 53.
- Sterilizing milk, cream, beverages, and other alimentary substances. A. Rutter. No. 1,140,717; May 25; Gaz. vol. 214; p. 1160.
- Sterilizing or cooking canned goods, Apparatus for. J. B. Cook. No. 1,165,757; Dec. 28; Gaz. vol. 221; p. 1182.
- Sterilizing organic material. W. B. Fenn. No. 1,141,242; June 1; Gaz. vol. 215; p. 54.
- Sterilizing organic materials, Machine for. W. B. Fenn. No. 1,159,659; Nov. 9; Gaz. vol. 220; p. 469.
- Sterilizing perishable material, Apparatus for. W. B. Fenn. No. 1,141,239; June 1; Gaz. vol. 215; p. 52.
- Sterilizing vessel-closures, Means for. W. B. Fenn. No. 1,141,178; June 1; Gaz. vol. 215; p. 31.
- Stethoscope. O. H. Sheppard. No. 1,157,428; Oct. 19; Gaz. vol. 219; p. 793.
- Stethoscope. K. M. Turner. No. 1,147,282; July 20; Gaz. vol. 216; p. 846.
- Stethoscope or intensifier, Resonating. J. J. Singer. No. 1,143,791; June 22; Gaz. vol. 215; p. 1045.
- Stick-pin guard. M. Weintraub and A. Katz. No. 1,145,726; July 6; Gaz. vol. 216; p. 263.
- Stiletto or pointed pin. A. V. J. Ireland. No. 1,161,684; Nov. 23; Gaz. vol. 220; p. 1285.
- Still kettle, Turpentine-. J. Ziebolz. No. 1,157,139; Oct. 19; Gaz. vol. 219; p. 688.

Alphabetical list of inventions—Continued.

- Still, Water-. T. P. Adams. No. 1,148,273; July 27; Gaz. vol. 216; p. 1224.
- Still, Water-. C. D. Crane. No. 1,154,590; Sept. 21; Gaz. vol. 218; p. 853.
- Still, Water-. A. P. Link. No. 1,150,439; Aug. 17; Gaz. vol. 217; p. 860.
- Still, Water-. J. A. Manahan. No. 1,145,497; July 6; Gaz. vol. 216; p. 183.
- Stills, Apparatus for heating. F. T. Beers. No. 1,149,711; Aug. 10; Gaz. vol. 217; p. 541.
- Stills or analogous vessels, Setting for petroleum-. J. W. Van Dyke and W. M. Irish. No. 1,152,576; Sept. 7; Gaz. vol. 218; p. 73.
- Stills, Safeguarding. W. M. Burton. No. 1,160,689; Nov. 16; Gaz. vol. 220; p. 891.
- Stirring device. R. S. Kellogg. No. 1,160,413; Nov. 16; Gaz. vol. 220; p. 788.
- Stirrup. G. D. Coimer. No. 1,127,187; Feb. 2; Gaz. vol. 211; p. 184.
- Stirrup. H. S. Ferguson. No. 1,149,191; Aug. 10; Gaz. vol. 217; p. 352.
- Stirrup. J. Jerzyk. No. 1,130,607; Mar. 2; Gaz. vol. 212; p. 269.
- Stirrup. N. W. Leadbetter. No. 1,138,492; May 4; Gaz. vol. 214; p. 271.
- Stirrup. H. Metcalf. No. 1,136,154; Apr. 20; Gaz. vol. 213; p. 815.
- Stirrup. F. J. Wassemler. No. 1,162,324; Nov. 30; Gaz. vol. 220; p. 1555.
- Stirrup attachment. F. Jarvis. No. 1,160,082; Nov. 9; Gaz. vol. 220; p. 619.
- Stirrup, Safety-. T. C. Evans. No. 1,129,655; Feb. 23; Gaz. vol. 211; p. 1171.
- Stirrup, Safety-. A. Moake. No. 1,131,153; Mar. 9; Gaz. vol. 212; p. 489.
- Stirrup, Safety-. W. T. Prater. No. 1,124,801; Jan. 12; Gaz. vol. 210; p. 606.
- Stirrup, Safety-. E. G. Roediger. No. 1,162,651; Nov. 30; Gaz. vol. 220; p. 1662.
- Stirrup, Safety-. J. H. Teuteberg. No. 1,158,746; Nov. 2; Gaz. vol. 220; p. 117.
- Stirrup, Safety saddle-. H. P. Skinner. No. 1,148,197; July 27; Gaz. vol. 216; p. 1197.
- Stitch-chain-forming machine. L. N. D. Williams. No. 1,127,338; Feb. 2; Gaz. vol. 211; p. 234.
- Stitch-forming device. O. E. Brown. No. 1,152,482; Sept. 7; Gaz. vol. 218; p. 37.
- Stitch-forming mechanism. E. B. Allen. No. 1,159,345; Nov. 9; Gaz. vol. 220; p. 357.
- Stitch-forming mechanism. A. F. Fifield. No. 1,147,386; July 20; Gaz. vol. 216; p. 884.
- Stitch-forming mechanism, Overseaming-. A. H. De Voe. No. 1,162,987; Dec. 7; Gaz. vol. 221; p. 87.
- Stitch-indenting apparatus. E. Erickson. No. 1,165,002; Dec. 21; Gaz. vol. 221; p. 878.
- Stitch machine, Multiple-needle chain-. L. Onderdonk. No. 1,123,576; Jan. 5; Gaz. vol. 210; p. 129.
- Stitch-rubbing machine. J. B. Hadaway. No. 1,124,425; Jan. 12; Gaz. vol. 210; p. 470.
- Stitching clamp, Buttonhole-. W. J. Morgan. No. 1,129,415; Feb. 23; Gaz. vol. 211; p. 1088.
- Stitching-machine. F. A. Risberg. No. 1,140,531; May 25; Gaz. vol. 214; p. 1100.
- Stitching machine, Book-. M. Christensen. No. 1,165,749; Dec. 28; Gaz. vol. 221; p. 1179.
- Stitching machine, Book-. C. W. Mears and B. B. West. No. 1,152,534; Sept. 7; Gaz. vol. 218; p. 58.
- Stitching machine, Buttonhole-. F. A. Read. No. 1,140,482; May 25; Gaz. vol. 214; p. 1081.
- Stitching machine, Label-. W. A. Adams. No. 1,151,846; Aug. 31; Gaz. vol. 217; p. 1448.
- Stitching machine, Scallop-. J. C. Ringe. No. 1,158,391; Oct. 26; Gaz. vol. 219; p. 1191.
- Stitching machines, Attachment for shell-. F. Chatfield. No. 1,144,810; June 29; Gaz. vol. 215; p. 1429.
- Stitching machines, Conveyer for boot-. M. Christensen. No. 1,140,734; May 25; Gaz. vol. 214; p. 1165.
- Stitching-machines, Fabric-guide for. F. Chatfield. No. 1,144,811; June 29; Gaz. vol. 215; p. 1429.
- Stitching machines, Slip-trimming attachment for fair-. F. A. Devereaux. No. 1,130,492; Mar. 2; Gaz. vol. 212; p. 229.
- Stitching or stapling machines, Work-guide for. H. Weber. No. 1,130,048; Mar. 2; Gaz. vol. 212; p. 72.
- Stock. R. W. Ball. No. 1,163,500; Dec. 7; Gaz. vol. 221; p. 267.
- Stock and poultry fountain, Automatic. J. H. Threlkeld. No. 1,136,738; Apr. 20; Gaz. vol. 213; p. 1024.
- Stock-cutting. K. Engel. No. 1,142,156; June 8; Gaz. vol. 215; p. 413.
- Stock-inclosure, Portable. C. E. Liggett. No. 1,160,728; Nov. 16; Gaz. vol. 220; p. 904.
- Stock-rack. N. W. Jones. No. 1,150,203; Aug. 17; Gaz. vol. 217; p. 780.
- Stock-rack. E. E. McKinnis. No. 1,130,315; Mar. 2; Gaz. vol. 212; p. 164.
- Stock-tank, Sanitary. W. S. Crum. No. 1,136,510; Apr. 20; Gaz. vol. 213; p. 943.
- Stock-treating machine. J. H. Pope. No. 1,123,369; Jan. 5; Gaz. vol. 210; p. 60.
- Stock-trous. J. Herold. No. 1,154,768; Sept. 28; Gaz. vol. 218; p. 942.
- Stocking. J. P. Nissen. No. 1,142,774; June 8; Gaz. vol. 215; p. 628.
- Stocking. R. S. and B. H. Phillips. No. 1,123,587; Jan. 5; Gaz. vol. 210; p. 133.
- Stocking. H. A. Taylor. No. 1,162,820; Dec. 7; Gaz. vol. 221; p. 32.
- Stocking and knitting the same, Welted knit. R. W. Scott. No. 1,128,728; Feb. 16; Gaz. vol. 211; p. 809.
- Stocking-protector. L. Johnson. No. 1,147,404; July 20; Gaz. vol. 216; p. 891.
- Stocking, Seamless. R. W. Scott. No. 1,123,402; Jan. 5; Gaz. vol. 210; p. 70.
- Stocking-supporter. M. L. Irwin. No. 1,150,120; Aug. 17; Gaz. vol. 217; p. 748.
- Stocking-supporter. J. N. Oswald. No. 1,153,334; Sept. 14; Gaz. vol. 218; p. 380.
- Stockings from forms, Machine for removing. H. Coulston and W. M. Schwartz. No. 1,126,619; Jan. 26; Gaz. vol. 210; p. 1326.
- Stockings from forms, Means for removing. H. Coulston and W. M. Schwartz. No. 1,131,778; June 1; Gaz. vol. 215; p. 243.
- Stockings from stocking-boards, Removing. H. Coulston. No. 1,141,777; June 1; Gaz. vol. 215; p. 242.
- Stoker. D. F. Crawford. No. 1,131,213; Mar. 9; Gaz. vol. 212; p. 510.
- Stoker. E. P. Stevens. No. 1,127,940; Feb. 9; Gaz. vol. 211; p. 489.
- Stoker, Automatic. D. F. Crawford. No. 1,131,214; Mar. 9; Gaz. vol. 212; p. 510.
- Stoker, Automatic. D. F. Crawford. No. 1,131,215; Mar. 9; Gaz. vol. 212; p. 511.
- Stoker, Automatic. A. C. Nelson. No. 1,138,501; May 4; Gaz. vol. 214; p. 273.
- Stoker, Automatic. D. T. Williams. No. 1,142,293; June 8; Gaz. vol. 215; p. 461.
- Stoker, Automatic. D. T. Williams. No. 1,165,641; Dec. 28; Gaz. vol. 221; p. 1142.
- Stoker-box drive. J. R. Fortune. No. 1,149,435; Aug. 10; Gaz. vol. 217; p. 442.
- Stoker-boxes, Driving mechanism for. B. C. Stewart. No. 1,149,416; Aug. 10; Gaz. vol. 217; p. 435.
- Stoker construction. W. J. Kenney. No. 1,162,785; Dec. 7; Gaz. vol. 221; p. 19.
- Stoker for feeding coal-dust or other comminuted fuels, Furnace-. C. L. Heisler. No. 1,140,817; May 25; Gaz. vol. 214; p. 1195.
- Stoker for locomotive-boilers and the like. E. Fuller, Jr. No. 1,153,156; Sept. 7; Gaz. vol. 218; p. 278.
- Stoker for locomotives. A. R. Ayers. No. 1,156,264; Oct. 12; Gaz. vol. 219; p. 350.
- Stoker for locomotives, Mechanical. E. Young. No. 1,148,735; Aug. 3; Gaz. vol. 217; p. 91.
- Stoker, Locomotive-. A. R. Ayers. No. 1,156,263; Oct. 12; Gaz. vol. 219; p. 350.
- Stoker, Mechanical. A. G. Elvin. No. 1,128,428; Feb. 16; Gaz. vol. 211; p. 707.
- Stoker, Mechanical. A. G. Elvin. No. 1,137,471; Apr. 27; Gaz. vol. 213; p. 1324.
- Stoker, Mechanical. H. Iserman. No. 1,125,544; Jan. 19; Gaz. vol. 210; p. 904.
- Stoker, Mechanical. J. E. Murphy. No. 1,140,761; May 25; Gaz. vol. 214; p. 1175.
- Stoker, Mechanical. G. B. Rait. No. 1,149,685; Aug. 10; Gaz. vol. 217; p. 533.
- Stoker, Mechanical. C. F. Street. No. 1,130,443; Mar. 2; Gaz. vol. 212; p. 210.
- Stoker, Mechanical. J. Van Vleck. No. 1,151,138; Aug. 24; Gaz. vol. 217; p. 1159.
- Stoker, Mechanical. O. Wundrack. No. 1,162,965; Dec. 7; Gaz. vol. 221; p. 81.
- Stoker mechanism. W. C. A. Henry. No. 1,134,198; Apr. 6; Gaz. vol. 213; p. 42.
- Stoker mechanism, Automatic. C. D. Young. No. 1,156,854; Oct. 12; Gaz. vol. 219; p. 559.
- Stokers, Grate for mechanical. F. M. Clark. No. 1,125,473; Jan. 19; Gaz. vol. 210; p. 880.
- Stokers, Grate for mechanical. F. M. Clark. No. 1,125,474; Jan. 19; Gaz. vol. 210; p. 880.
- Stokers, Grate-vibrating device for chain-grate. B. J. Morrison. No. 1,136,033; Apr. 20; Gaz. vol. 213; p. 773.
- Stoking apparatus, Automatic. W. J. Kenney and H. P. Grohn. No. 1,136,679; Apr. 20; Gaz. vol. 213; p. 1002.
- Stoking mechanism, Automatic. D. T. Williams. No. 1,152,682; Sept. 7; Gaz. vol. 218; p. 111.
- Stone, Artificial. G. Atterbury. No. 1,140,559; May 25; Gaz. vol. 214; p. 1108.
- Stone, Artificial. G. Atterbury. No. 1,163,060; Dec. 7; Gaz. vol. 221; p. 113.
- Stone, Artificial. J. Billwiller. No. 1,129,060; Feb. 23; Gaz. vol. 211; p. 963.
- Stone, Artificial. E. Gossett. No. 1,135,176; Apr. 13; Gaz. vol. 213; p. 433.
- Stone, Artificial. J. W. Wagner. No. 1,130,223; Mar. 2; Gaz. vol. 212; p. 133.
- Stone-ballast cleaner. I. J. Trench. No. 1,129,820; Feb. 23; Gaz. vol. 211; p. 1224.
- Stone-breaking machine. H. E. Derbyshire. No. 1,162,685; Nov. 30; Gaz. vol. 220; p. 1673.
- Stone-creasing tool. E. E. Rice. No. 1,165,022; Dec. 21; Gaz. vol. 221; p. 885.

Alphabetical list of inventions—Continued.

- Stone-crusher. J. H. Cockfield. No. 1,133,101; Mar. 23; Gaz. vol. 212; p. 1273.
- Stone crusher and pulverizer. E. B. Symons. No. 1,145,629; July 6; Gaz. vol. 216; p. 228.
- Stone-crushing machine. T. G. Rennerfelt. No. 1,141,581; June 1; Gaz. vol. 215; p. 176.
- Stone-cutting machine. M. Ahearn. No. 1,137,731; May 4; Gaz. vol. 214; p. 4.
- Stone-cutting tool. C. Kilburn. No. 1,158,811; Nov. 2; Gaz. vol. 220; p. 142.
- Stone dividing and surfacing apparatus. A. Sargent. No. 1,160,452; Nov. 16; Gaz. vol. 220; p. 802.
- Stone-dressing machine. M. Woods, G. W. Gilbert, and J. Little. No. 1,134,658; Apr. 6; Gaz. vol. 213; p. 210.
- Stone-dressing tool and the like. F. W. Roberts. No. 1,148,053; July 27; Gaz. vol. 216; p. 1145.
- Stone facing slab or tile, Artificial-. H. E. McLaughlin. No. 1,152,427; Sept. 7; Gaz. vol. 218; p. 16.
- Stone-gathering machine. E. C. Helmke. No. 1,139,032; May 11; Gaz. vol. 214; p. 501.
- Stone grinding and polishing machine. G. R. Murray. No. 1,138,633; May 11; Gaz. vol. 214; p. 375.
- Stone, grit, sand, or other material, Drying and heating. T. Sr., A. T., Jr., and F. Coleman. No. 1,147,211; July 20; Gaz. vol. 216; p. 824.
- Stone-lifting clamp. M. Haley. No. 1,159,667; Nov. 9; Gaz. vol. 220; p. 471.
- Stone, Making a fluid for coloring. L. Schrott. No. 1,158,730; Nov. 2; Gaz. vol. 220; p. 112.
- Stone, Making artificial. R. Conn and O. H. Shultz. No. 1,153,032; Sept. 7; Gaz. vol. 218; p. 238.
- Stone, Manufacturing artificial. W. Weiler. No. 1,143,670; June 22; Gaz. vol. 215; p. 1005.
- Stone-picker. J. A. Sonnentag. No. 1,163,700; Dec. 14; Gaz. vol. 221; p. 383.
- Stone raker and loader. C. E. Culp and A. T. Wilks. No. 1,139,168; May 11; Gaz. vol. 214; p. 547.
- Stone-saw. W. F. Meyers. No. 1,156,166; Oct. 12; Gaz. vol. 219; p. 318.
- Stone-saw. W. F. Meyers. No. 1,163,356; Dec. 7; Gaz. vol. 221; p. 218.
- Stone-sawing machine. E. A. Chase. No. 1,141,231; June 1; Gaz. vol. 215; p. 50.
- Stone-sawing machine. D. W. Parker. No. 1,143,856; June 22; Gaz. vol. 215; p. 1069.
- Stone-sawing machines, Box-cap hanger for gang-frames of. J. Logan. No. 1,151,698; Aug. 31; Gaz. vol. 217; p. 1395.
- Stone-sawing mechanism, Automatic. A. Lespagnol. No. 1,155,156; Sept. 28; Gaz. vol. 218; p. 1076.
- Stone slab, plate, and the like, Artificial-. F. M. E. von Mollenbruck. No. 1,139,934; May 18; Gaz. vol. 214; p. 852.
- Stones from clay, Machine for separating. R. W. Lyle. No. 1,165,523; Dec. 28; Gaz. vol. 221; p. 1098.
- Stoneworking-machine. G. H. Gilman. No. 1,164,083; Dec. 14; Gaz. vol. 221; p. 518.
- Stoneworking-machine. P. F. McCormack. No. 1,133,233; Mar. 23; Gaz. vol. 212; p. 1319.
- Stoneworking-machine. H. H. Mercer. No. 1,142,975; June 15; Gaz. vol. 215; p. 738.
- Stoneworking-machine. H. H. Mercer. No. 1,149,075; Aug. 3; Gaz. vol. 217; p. 209.
- Stoneworking-machine, Universal. O. Bauer. (Reissue.) No. 13,918; May 18; Gaz. vol. 214; p. 997.
- Stoneworking-machine, Universal. O. Bauer. No. 1,146,684; July 13; Gaz. vol. 216; p. 619.
- Stoneworking-machines, Turn-table for. F. E. Lang. No. 1,125,566; Jan. 19; Gaz. vol. 210; p. 912.
- Stool, &c. H. B. Davis. No. 1,151,164; Aug. 24; Gaz. vol. 217; p. 1169.
- Stool. P. J. Desselle and G. F. Philipparr. No. 1,129,175; Feb. 23; Gaz. vol. 211; p. 1003.
- Stool. E. A. Taylor. No. 1,132,407; Mar. 16; Gaz. vol. 212; p. 971.
- Stool and racket-press, Combined. M. Gelder. No. 1,151,935; Aug. 31; Gaz. vol. 217; p. 1478.
- Stool, Camp-. D. M. Neff. No. 1,134,057; Mar. 30; Gaz. vol. 212; p. 1645.
- Stool concealed within a walking-stick, Collapsible. J. H. Perrin. No. 1,166,386; Dec. 28; Gaz. vol. 221; p. 1407.
- Stool, Folding. J. Tomassi. No. 1,135,864; Apr. 13; Gaz. vol. 213; p. 674.
- Stool, Folding extensible. J. F. Spalding. No. 1,152,987; Sept. 7; Gaz. vol. 218; p. 223.
- Stool, Ingot-mold. T. H. Kenvin. No. 1,157,697; Oct. 26; Gaz. vol. 219; p. 947.
- Stool, Milking-. T. C. Oler. No. 1,138,781; May 11; Gaz. vol. 214; p. 410.
- Stool, Milking-. D. A. Vandever. No. 1,133,763; Mar. 30; Gaz. vol. 212; p. 1546.
- Stool, Pail-. E. A. Oliver. No. 1,138,141; May 4; Gaz. vol. 214; p. 149.
- Stool, Piano-. B. O. Jones. No. 1,142,174; June 8; Gaz. vol. 215; p. 419.
- Stool, Sanitary shoe-. O. W. Nunn. No. 1,125,155; Jan. 19; Gaz. vol. 210; p. 766.
- Stool, Shoe-fitting. A. T. Reed. No. 1,139,227; May 11; Gaz. vol. 214; p. 567.
- Stool, Shoe-salesman's. J. W. Moore. No. 1,149,391; Aug. 10; Gaz. vol. 217; p. 425.
- Stool-slip, Sanitary. E. K. Munch. No. 1,159,070; Nov. 2; Gaz. vol. 220; p. 227.
- Stop and relief, Combined. L. Perry. No. 1,146,723; July 13; Gaz. vol. 216; p. 631.
- Stop and waste box. F. W. Meyer. No. 1,158,528; Nov. 2; Gaz. vol. 220; p. 42.
- Stop, Automatic. V. H. Carman. No. 1,128,582; Feb. 16; Gaz. vol. 211; p. 760.
- Stop-box key. O. J. La Combe, Jr. No. 1,135,297; Apr. 13; Gaz. vol. 213; p. 474.
- Stop device, Adjustable. A. A. Bowser. No. 1,137,454; Apr. 27; Gaz. vol. 213; p. 1318.
- Stop mechanism. C. L. Brink. No. 1,131,671; Mar. 16; Gaz. vol. 212; p. 703.
- Stop mechanism. S. M. Langston. No. 1,124,468; Jan. 12; Gaz. vol. 210; p. 487.
- Stop mechanism. J. A. Paige. No. 1,142,906; June 15; Gaz. vol. 215; p. 713.
- Stop mechanism. E. E. Winkley. No. 1,163,799; Dec. 14; Gaz. vol. 221; p. 419.
- Stop mechanism, Safety. A. J. Nicht. No. 1,163,029; Dec. 7; Gaz. vol. 221; p. 103.
- Stop-motion. O. L. Owen. No. 1,152,541; Sept. 7; Gaz. vol. 218; p. 60.
- Stop-motion, Automatic. G. John and D. L. Lindquist. No. 1,159,587; Nov. 9; Gaz. vol. 220; p. 443.
- Stop-motion mechanism. A. R. Wood. No. 1,151,534; Aug. 24; Gaz. vol. 217; p. 1294.
- Stop-securing machine. V. C. Luppert. No. 1,125,574; Jan. 19; Gaz. vol. 210; p. 915.
- Stopper: See—
- Bottle-stopper. Headed stopper.
- Bottle-dispensing stopper. Leak-stopper.
- Container-stopper. Pipe-stopper.
- Gas-main stopper. Pour-out stopper.
- Stopper. W. G. Rodiger. No. 1,157,905; Oct. 26; Gaz. vol. 219; p. 1020.
- Stopper-extractor. J. Omaye. No. 1,146,649; July 13; Gaz. vol. 216; p. 606.
- Stoppers, Machine for applying crown-. W. E. Lindsay. No. 1,162,702; Nov. 30; Gaz. vol. 220; p. 1680.
- Stopping device, Automatic. J. Pagano. No. 1,132,791; Mar. 23; Gaz. vol. 212; p. 1160.
- Stopping mechanism. R. T. Baisley. No. 1,158,619; Nov. 2; Gaz. vol. 220; p. 74.
- Stopping mechanism. R. C. Simmons. No. 1,147,194; July 20; Gaz. vol. 216; p. 816.
- Stopping mechanism, Speed-governed. A. A. Merritt. No. 1,156,916; Oct. 19; Gaz. vol. 219; p. 609.
- Storage and shipping box. G. Klenk. No. 1,161,692; Nov. 23; Gaz. vol. 220; p. 1288.
- Storage apparatus, Textile-. I. E. Palmer. No. 1,160,111; Nov. 9; Gaz. vol. 220; p. 631.
- Storage battery. W. A. Crowds. No. 1,155,046; Sept. 28; Gaz. vol. 218; p. 1035.
- Storage battery. W. A. Crowds. No. 1,155,047; Sept. 28; Gaz. vol. 218; p. 1035.
- Storage battery. R. Drambourg and J. E. Reid. No. 1,126,422; Jan. 26; Gaz. vol. 210; p. 1253.
- Storage battery. H. S. Hawkins, A. M. Green, and I. W. Gebbins. No. 1,159,021; Nov. 2; Gaz. vol. 220; p. 211.
- Storage battery. R. Hurley. No. 1,138,220; May 4; Gaz. vol. 214; p. 174.
- Storage battery. M. R. Hutchison and C. W. Norton. No. 1,165,101; Dec. 21; Gaz. vol. 221; p. 913.
- Storage battery. J. O. Luthy. No. 1,161,398; Nov. 23; Gaz. vol. 220; p. 1187.
- Storage battery. A. H. Snyder. No. 1,128,275; Feb. 9; Gaz. vol. 211; p. 605.
- Storage battery. P. B. Whitney. No. 1,136,075; Apr. 20; Gaz. vol. 213; p. 787.
- Storage battery. T. A. Willard. No. 1,150,917; Aug. 24; Gaz. vol. 217; p. 1085.
- Storage battery. T. A. Willard. No. 1,151,077; Aug. 24; Gaz. vol. 217; p. 1138.
- Storage battery. T. A. Willard. No. 1,166,101; Dec. 28; Gaz. vol. 221; p. 1300.
- Storage battery. T. A. Willard. No. 1,166,102; Dec. 28; Gaz. vol. 221; p. 1301.
- Storage battery. D. H. Wilson. No. 1,126,671; Jan. 26; Gaz. vol. 210; p. 1344.
- Storage battery, Electric. B. Ford and J. L. Phillips. No. 1,151,453; Aug. 24; Gaz. vol. 217; p. 1264.
- Storage battery, Electric. K. Knobloch. No. 1,129,690; Feb. 23; Gaz. vol. 211; p. 1181.
- Storage-bin. C. Healy. No. 1,165,971; Dec. 28; Gaz. vol. 221; p. 1255.
- Storage-bin. E. E. Norquist. No. 1,147,967; July 27; Gaz. vol. 216; p. 1114.
- Store-fixture. E. B. Collette, E. P. Larry, and N. Buras. No. 1,139,257; May 11; Gaz. vol. 214; p. 577.
- Store-goods lifter. I. Bujese. No. 1,124,207; Jan. 5; Gaz. vol. 210; p. 345.
- Store-service apparatus. C. J. Miller. No. 1,146,192; July 13; Gaz. vol. 216; p. 446.
- Store-service apparatus. C. E. Thompson. No. 1,131,806; Mar. 16; Gaz. vol. 212; p. 753.
- Store-service apparatus. H. L. Wilson. No. 1,133,450; Mar. 30; Gaz. vol. 212; p. 1433.
- Store-service apparatus and the like. F. D. Powell. No. 1,137,897; May 4; Gaz. vol. 214; p. 60.

Alphabetical list of inventions—Continued.

- Store-service apparatus and the like. W. C. Wright. No. 1,142,474; June 8; Gaz. vol. 215; p. 526.
- Store-service apparatus, Propelling device for. H. J. Hick. No. 1,146,160; July 13; Gaz. vol. 216; p. 435.
- Store-service conveyor system. S. Olson. No. 1,142,453; June 8; Gaz. vol. 215; p. 519.
- Store-service credit-system apparatus. C. F. Kettering. No. 1,142,102; June 8; Gaz. vol. 215; p. 395.
- Storing and dispensing apparatus. T. T. Bathurst. No. 1,127,391; Feb. 9; Gaz. vol. 211; p. 294.
- Storm-shield. R. A. Griefen. No. 1,126,754; Feb. 2; Gaz. vol. 211; p. 32.
- Stove. G. E. Arndt. No. 1,127,575; Feb. 9; Gaz. vol. 211; p. 358.
- Stove. L. A. Bonnet. No. 1,163,206; Dec. 7; Gaz. vol. 221; p. 165.
- Stove. J. R. and H. J. Bower. No. 1,163,807; Dec. 14; Gaz. vol. 221; p. 422.
- Stove. J. Brewer. No. 1,139,750; May 18; Gaz. vol. 214; p. 787.
- Stove. M. M. Cassel. No. 1,151,662; Aug. 31; Gaz. vol. 217; p. 1384.
- Stove. L. S. Chadwick. No. 1,140,874; May 25; Gaz. vol. 214; p. 1216.
- Stove. E. V. Coulston. No. 1,152,793; Sept. 7; Gaz. vol. 218; p. 151.
- Stove. J. G. Dungan. No. 1,154,747; Sept. 28; Gaz. vol. 218; p. 935.
- Stove. J. W. Dupuy. No. 1,156,066; Oct. 12; Gaz. vol. 219; p. 284.
- Stove. R. Futrak. No. 1,123,725; Jan. 5; Gaz. vol. 210; p. 180.
- Stove. F. M. Gates. No. 1,127,613; Feb. 9; Gaz. vol. 211; p. 371.
- Stove. F. M. Gates. No. 1,143,581; June 15; Gaz. vol. 215; p. 950.
- Stove. W. S. Hadaway, Jr. No. 1,154,114; Sept. 21; Gaz. vol. 218; p. 690.
- Stove. J. J. Hanna. No. 1,164,510; Dec. 14; Gaz. vol. 221; p. 666.
- Stove. R. W. Howell. No. 1,128,605; Feb. 16; Gaz. vol. 211; p. 767.
- Stove. J. F. James. No. 1,127,254; Feb. 2; Gaz. vol. 211; p. 208.
- Stove. J. K. Mohler. No. 1,139,211; May 11; Gaz. vol. 214; p. 563.
- Stove. O. Nestel. No. 1,153,243; Sept. 14; Gaz. vol. 218; p. 348.
- Stove. G. T. Oglesby. No. 1,129,715; Feb. 23; Gaz. vol. 211; p. 1189.
- Stove. V. A. Pitsch. No. 1,139,575; May 18; Gaz. vol. 214; p. 725.
- Stove. J. R. Ricketts. No. 1,130,930; Mar. 9; Gaz. vol. 212; p. 413.
- Stove. A. W. Roth. No. 1,139,231; May 11; Gaz. vol. 214; p. 568.
- Stove. G. J. Rymal. No. 1,125,183; Jan. 19; Gaz. vol. 210; p. 777.
- Stove. W. J. Sarvis. No. 1,133,747; Mar. 30; Gaz. vol. 212; p. 1540.
- Stove. H. J. Schuyler. No. 1,137,538; Apr. 27; Gaz. vol. 213; p. 1346.
- Stove. R. B. Sellars. No. 1,143,079; June 15; Gaz. vol. 215; p. 775.
- Stove. F. Smith. No. 1,142,123; June 8; Gaz. vol. 215; p. 403.
- Stove. W. F. Stark. No. 1,129,134; Feb. 23; Gaz. vol. 211; p. 990.
- Stove. W. H. Tappan. No. 1,150,904; Aug. 24; Gaz. vol. 217; p. 1079.
- Stove. S. S. Thomas. No. 1,156,330; Oct. 12; Gaz. vol. 219; p. 372.
- Stove. E. G. Van Wie and R. W. Davenport. No. 1,131,298; Mar. 9; Gaz. vol. 212; p. 540.
- Stove. J. S. Williams. No. 1,149,107; Aug. 3; Gaz. vol. 217; p. 217.
- Stove. H. D. Wood. No. 1,135,478; Apr. 13; Gaz. vol. 213; p. 537.
- Stove and fireless cooker, Combined. H. K. Dirlam and S. A. Pritschau. No. 1,161,633; Nov. 23; Gaz. vol. 220; p. 1267.
- Stove and furnace grate. L. S. Haldeman. No. 1,147,502; July 20; Gaz. vol. 216; p. 925.
- Stove and furnace, Heating. H. Frederickson. No. 1,144,117; June 22; Gaz. vol. 215; p. 1161.
- Stove and furnace, Heating. G. G. Garey. No. 1,139,857; May 18; Gaz. vol. 214; p. 824.
- Stove and range. W. J. Stafford. No. 1,160,780; Nov. 16; Gaz. vol. 220; p. 921.
- Stove and range. G. W. Thurman. No. 1,131,573; Mar. 9; Gaz. vol. 212; p. 633.
- Stove and range, Cooking. W. N. Goldhamer. No. 1,127,229; Feb. 2; Gaz. vol. 211; p. 199.
- Stove and range, Cooking. A. W. Walker. No. 1,151,071; Aug. 24; Gaz. vol. 217; p. 1136.
- Stove and range, Cooking. A. W. Walker. No. 1,163,796; Dec. 14; Gaz. vol. 221; p. 418.
- Stove and range, Gas. E. Triest. No. 1,144,158; June 22; Gaz. vol. 215; p. 1176.
- Stove and water-heater, Gas. J. Brauning. No. 1,150,333; Aug. 17; Gaz. vol. 217; p. 825.
- Stove attachment. G. Crumley. No. 1,151,569; Aug. 31; Gaz. vol. 217; p. 1352.
- Stove attachment. H. M. Spears. No. 1,151,412; Aug. 24; Gaz. vol. 217; p. 1250.
- Stove attachment, Gas. P. Moellendick. No. 1,142,603; June 8; Gaz. vol. 215; p. 570.
- Stove attachment or guard. J. M. Roth. No. 1,160,767; Nov. 16; Gaz. vol. 220; p. 917.
- Stove, Automatic antifrost. W. E. Mayer. No. 1,128,892; Feb. 16; Gaz. vol. 211; p. 868.
- Stove-burner. G. D. Bradshaw. No. 1,157,841; Oct. 26; Gaz. vol. 219; p. 997.
- Stove burners, Automatic cut-off for gas. L. E. Lemley and R. N. Leopard. No. 1,141,564; June 1; Gaz. vol. 215; p. 170.
- Stove burners, Shutter for gas. M. A. Possons. No. 1,125,882; Jan. 19; Gaz. vol. 210; p. 1024.
- Stove, Camp. W. W. Jackson. No. 1,126,220; Jan. 26; Gaz. vol. 210; p. 1182.
- Stove, Collapsible camp. C. F. Penn. No. 1,166,151; Dec. 28; Gaz. vol. 221; p. 1321.
- Stove, Combined gas and coal. A. C. Edgar. No. 1,164,485; Dec. 14; Gaz. vol. 221; p. 658.
- Stove, Combined heating and cooking. D. Carjulo. No. 1,143,504; June 15; Gaz. vol. 215; p. 923.
- Stove construction. L. S. Chadwick. No. 1,136,935; Apr. 27; Gaz. vol. 213; p. 1129.
- Stove, Cook. W. Brandenburg and D. J. Barker. No. 1,138,622; May 11; Gaz. vol. 214; p. 353.
- Stove, Cooking. W. A. Bourne. No. 1,145,399; July 6; Gaz. vol. 216; p. 148.
- Stove, Cooking. J. A. Coppridge. No. 1,155,799; Oct. 5; Gaz. vol. 219; p. 166.
- Stove, Cooking. J. G. Dungan. No. 1,158,655; Nov. 2; Gaz. vol. 220; p. 87.
- Stove, Cooking. O. Kuekes. No. 1,123,318; Jan. 5; Gaz. vol. 210; p. 41.
- Stove, Cooking. J. A. Lansing. No. 1,150,127; Aug. 17; Gaz. vol. 217; p. 751.
- Stove, Cooking. A. J. Lindemann. No. 1,127,652; Feb. 9; Gaz. vol. 211; p. 333.
- Stove, Cooking. A. W. Walker. No. 1,151,072; Aug. 24; Gaz. vol. 217; p. 1136.
- Stove, Cooking. A. W. Walker. No. 1,163,719; Dec. 14; Gaz. vol. 221; p. 390.
- Stove-door. L. N. Pfeiffer. No. 1,146,096; July 13; Gaz. vol. 216; p. 412.
- Stove-door. F. W. Reynolds. No. 1,157,041; Oct. 19; Gaz. vol. 219; p. 655.
- Stove, Electric. R. F. Boettiger. No. 1,143,883; June 22; Gaz. vol. 215; p. 1078.
- Stove, Electric. L. G. Copeman. No. 1,141,175; June 1; Gaz. vol. 215; p. 30.
- Stove, Electric. W. F. Merrill. No. 1,134,886; Apr. 6; Gaz. vol. 213; p. 288.
- Stove, Electric cooking. A. O. Christensen. No. 1,158,176; Oct. 26; Gaz. vol. 219; p. 1115.
- Stove, Electric heating and cooking. A. O. Christensen. No. 1,133,098; Mar. 23; Gaz. vol. 212; p. 1272.
- Stove, Electric heating and cooking. L. P. Hays. No. 1,161,667; Nov. 23; Gaz. vol. 220; p. 1279.
- Stove, Field. T. B. Gaddis. No. 1,146,490; July 13; Gaz. vol. 216; p. 553.
- Stove, Fireless cook. M. Murphy. No. 1,164,845; Dec. 21; Gaz. vol. 221; p. 824.
- Stove, Folding. E. C. Moats. No. 1,133,491; Mar. 30; Gaz. vol. 212; p. 1446.
- Stove, Gas. E. J. Allen. No. 1,160,486; Nov. 16; Gaz. vol. 220; p. 815.
- Stove, Gas. B. C. Bartlebaugh. No. 1,166,313; Dec. 28; Gaz. vol. 221; p. 1380.
- Stove, Gas. W. N. Best. No. 1,141,521; June 1; Gaz. vol. 215; p. 155.
- Stove, Gas. J. Brauning. No. 1,150,334; Aug. 17; Gaz. vol. 217; p. 825.
- Stove, Gas. C. D. Starr. No. 1,127,306; Feb. 2; Gaz. vol. 211; p. 225.
- Stove, Gas-bracket. F. E. Bennett. No. 1,148,435; July 27; Gaz. vol. 216; p. 1280.
- Stove, Gas cooking. J. Frietschi. No. 1,165,587; Dec. 28; Gaz. vol. 221; p. 1120.
- Stove, Gas heating. M. A. Possons. No. 1,137,529; Apr. 27; Gaz. vol. 213; p. 1343.
- Stove, Gas or vapor. W. H. Pearce. No. 1,144,722; June 29; Gaz. vol. 215; p. 1398.
- Stove-grate. A. Steiny. No. 1,130,344; Mar. 2; Gaz. vol. 212; p. 174.
- Stove-guard. A. De Rosa. No. 1,146,613; July 13; Gaz. vol. 216; p. 594.
- Stove-guard. A. De Rosa. No. 1,146,614; July 13; Gaz. vol. 216; p. 595.
- Stove-handle. M. A. Possons. No. 1,136,718; Apr. 20; Gaz. vol. 213; p. 1017.
- Stove, Heating. E. H. Castle. No. 1,140,950; May 25; Gaz. vol. 214; p. 1244.
- Stove, Heating. S. M. Ford. No. 1,165,165; Dec. 21; Gaz. vol. 221; p. 936.
- Stove, Heating. H. B. Hemphill. No. 1,134,384; Apr. 6; Gaz. vol. 213; p. 109.
- Stove, Heating. E. J. Parker. No. 1,160,954; Nov. 16; Gaz. vol. 220; p. 982.

Alphabetical list of inventions—Continued.

- Stove, Heating. C. K. Rice. No. 1,136,615; Apr. 20; Gaz. vol. 213; p. 980.
- Stove, Heating. C. K. Rice. No. 1,147,645; July 20; Gaz. vol. 216; p. 975.
- Stove, Hot-blast. P. J. Brown. No. 1,140,872; May 25; Gaz. vol. 214; p. 1216.
- Stove, Hot-blast. T. and T. I. Coultas. No. 1,161,031; Nov. 23; Gaz. vol. 220; p. 1054.
- Stove, Hot-blast. A. N. Diehl. No. 1,141,108; June 1; Gaz. vol. 215; p. 6.
- Stove, Hot-blast. M. A. Neeland. No. 1,142,838; June 15; Gaz. vol. 215; p. 689.
- Stove, Hot-water. S. V. Reeves. No. 1,156,929; Oct. 19; Gaz. vol. 219; p. 614.
- Stove, hot-water and steam heater, and furnace. A. Giuffré. No. 1,149,906; Aug. 10; Gaz. vol. 217; p. 612.
- Stove igniter, Gas. A. W. Weber. No. 1,126,142; Jan. 26; Gaz. vol. 210; p. 1152.
- Stove-leg. K. S. Bissell. No. 1,163,312; Dec. 7; Gaz. vol. 221; p. 202.
- Stove-lid. E. Daum. No. 1,164,995; Dec. 21; Gaz. vol. 221; p. 876.
- Stove-lid. J. F. Henry. No. 1,141,058; May 25; Gaz. vol. 214; p. 1280.
- Stove-lid. N. E. Rice. No. 1,140,529; May 25; Gaz. vol. 214; p. 1099.
- Stove-lid lifter. R. L. Hickman. No. 1,131,517; Mar. 9; Gaz. vol. 212; p. 615.
- Stove-lid lifter. W. B. La Masters. No. 1,164,823; Dec. 21; Gaz. vol. 221; p. 816.
- Stove-lid lifter. E. G. Ressler. No. 1,148,715; Aug. 3; Gaz. vol. 217; p. 83.
- Stove-lid lifter. H. Yoho. No. 1,166,301; Dec. 28; Gaz. vol. 221; p. 1376.
- Stove lighter, Gas. F. G. Nicolaus. No. 1,137,520; Apr. 27; Gaz. vol. 213; p. 1340.
- Stove lighter, Gas. F. G. Nicolaus. No. 1,143,060; June 15; Gaz. vol. 215; p. 768.
- Stove lighter, Gas. T. L. Wiese. No. 1,128,644; Feb. 16; Gaz. vol. 211; p. 781.
- Stove-lighting device, Gas. M. A. Possons. No. 1,136,717; Apr. 20; Gaz. vol. 213; p. 1016.
- Stove-lighting device, Gas. H. Ruppel. No. 1,125,726; Jan. 19; Gaz. vol. 210; p. 972.
- Stove, Odorless gas heating. B. Ivor. No. 1,164,818; Dec. 21; Gaz. vol. 221; p. 814.
- Stove, Oil. L. S. Chadwick. No. 1,138,536; May 4; Gaz. vol. 214; p. 285.
- Stove, Oil. F. Conrath. No. 1,146,555; July 13; Gaz. vol. 216; p. 575.
- Stove, Oil. J. D. Robertson. No. 1,146,817; July 20; Gaz. vol. 216; p. 685.
- Stove, Oil-burning. J. P. High and H. C. Rathbun. No. 1,137,970; May 4; Gaz. vol. 214; p. 87.
- Stove, Oil-burning. J. P. High and H. C. Rathbun. No. 1,160,894; Nov. 16; Gaz. vol. 220; p. 960.
- Stove-operating device, Gas. J. E. Kennedy. No. 1,151,108; Aug. 24; Gaz. vol. 217; p. 1148.
- Stove or furnace. P. P. Cooley. No. 1,162,904; Dec. 7; Gaz. vol. 221; p. 59.
- Stove or furnace. T. Weisberger. No. 1,152,363; Aug. 31; Gaz. vol. 217; p. 1628.
- Stove or range. G. O. Bergstrom. No. 1,160,245; Nov. 16; Gaz. vol. 220; p. 731.
- Stove, (oven-burner.) Gas. A. W. Walker. No. 1,133,767; Mar. 30; Gaz. vol. 212; p. 1547.
- Stove, oven, range, and the like, Field. O. J. Charles. No. 1,141,934; June 8; Gaz. vol. 215; p. 334.
- Stove-rack. W. J. Moor. No. 1,128,485; Feb. 16; Gaz. vol. 211; p. 727.
- Stove safety device. W. F. Hajek. No. 1,141,335; June 1; Gaz. vol. 215; p. 88.
- Stove top, Gas. W. W. Smith. No. 1,148,412; July 27; Gaz. vol. 216; p. 1272.
- Stove-top, Panel. T. E. Potts. No. 1,153,517; Sept. 14; Gaz. vol. 218; p. 448.
- Stove-wick protector, Oil. C. L. Wagandt. No. 1,128,263; Feb. 9; Gaz. vol. 211; p. 600.
- Stoves and furnaces, Fire-pot for. J. F. Kernan and W. J. Owens. No. 1,140,464; May 25; Gaz. vol. 214; p. 1074.
- Stoves and furnaces, Smoke and gas returning means for. E. P. Folger. No. 1,150,934; Aug. 24; Gaz. vol. 217; p. 1091.
- Stoves, Brick for hot-blast. E. E. Slick. No. 1,130,031; Mar. 2; Gaz. vol. 212; p. 66.
- Stoves, Broiler and baking attachment for gas. M. Aaron. No. 1,143,603; June 22; Gaz. vol. 215; p. 983.
- Stoves, Cooking attachment for. G. F. Shapland. No. 1,155,519; Oct. 5; Gaz. vol. 219; p. 69.
- Stoves, Cover-plate for. W. E. Bursleson and W. T. Staebler. No. 1,164,066; Dec. 14; Gaz. vol. 221; p. 512.
- Stoves, Flame-shield for gas. E. P. Kupfer. No. 1,156,087; Oct. 12; Gaz. vol. 219; p. 292.
- Stoves, Forced-draft mechanism for. J. Cybulski. No. 1,125,819; Jan. 19; Gaz. vol. 210; p. 1004.
- Stoves, Gas-feeding device for cooking. A. J. Toussaint. No. 1,133,071; Mar. 25; Gaz. vol. 212; p. 1263.
- Stoves, Heat-distributor for gas. B. F. Slear. No. 1,161,805; Nov. 23; Gaz. vol. 220; p. 1326.
- Stoves, Hot-water attachment for gas. A. Blomquist. No. 1,160,246; Nov. 16; Gaz. vol. 220; p. 731.
- Stoves, Safety-valve for gas. L. Knezek. No. 1,164,289; Dec. 14; Gaz. vol. 221; p. 588.
- Stoves, Vent-controller for cook. K. D. Camp. No. 1,165,387; Dec. 28; Gaz. vol. 221; p. 1051.
- Stoves, Water-heating appliance for gas. C. H. Giese. No. 1,129,566; Feb. 23; Gaz. vol. 211; p. 1141.
- Stovepipe. E. W. Edwards. No. 1,153,204; Sept. 14; Gaz. vol. 218; p. 334.
- Stovepipe-anchor. A. F. Houck; No. 1,132,347; Mar. 16; Gaz. vol. 212; p. 949.
- Stovepipe-anchoring means. W. B. Tabor. No. 1,142,067; June 8; Gaz. vol. 215; p. 381.
- Stovepipe-cleaner. E. Stephens. No. 1,161,355; Nov. 23; Gaz. vol. 220; p. 1171.
- Stovepipe-forming machine. R. R. Dietrich. No. 1,138,639; May 11; Gaz. vol. 214; p. 358.
- Stovepipe-holder. A. H. Forst. No. 1,160,396; Nov. 16; Gaz. vol. 220; p. 782.
- Stovepipe-holder. J. Lynes. No. 1,133,983; Mar. 30; Gaz. vol. 212; p. 1619.
- Stovepipe-holder. S. M. Soule. No. 1,159,117; Nov. 2; Gaz. vol. 220; p. 244.
- Stovepipe-joint. J. W. Sliemers. No. 1,163,958; Dec. 14; Gaz. vol. 221; p. 474.
- Stovepipe-joint connection. R. A. Minkler. No. 1,148,041; July 27; Gaz. vol. 216; p. 1141.
- Stovepipe-section. R. Orr and B. S. Annis. No. 1,138,402; May 4; Gaz. vol. 214; p. 241.
- Stovepipes, Interlocking seam for. W. H. Pritchard and W. A. Taylor. No. 1,128,042; Feb. 9; Gaz. vol. 211; p. 524.
- Straight-edge. H. T. Jones. No. 1,128,881; Feb. 16; Gaz. vol. 211; p. 864.
- Straightening light bars, needles, &c., Machine for. W. Tivendale. No. 1,164,683; Dec. 21; Gaz. vol. 221; p. 768.
- Strain-applying apparatus. J. C. B. Wood. No. 1,127,341; Feb. 2; Gaz. vol. 211; p. 235.
- Strain-indicator. W. R. G. Whiting. No. 1,125,236; Jan. 19; Gaz. vol. 210; p. 796.
- Strainer. S. H. Carbis. No. 1,154,175; Sept. 21; Gaz. vol. 218; p. 710.
- Strainer. J. G. Friberg. No. 1,125,831; Jan. 19; Gaz. vol. 210; p. 1008.
- Strainer. H. B. Holt. No. 1,140,459; May 25; Gaz. vol. 214; p. 1071.
- Strainer. I. L. James. No. 1,137,266; Apr. 27; Gaz. vol. 213; p. 1251.
- Strainer. E. C. Kelly, Jr. No. 1,134,275; Apr. 6; Gaz. vol. 213; p. 70.
- Strainer. C. J. McCarthy. No. 1,153,090; Sept. 7; Gaz. vol. 218; p. 257.
- Strainer. C. G. Miller. No. 1,140,758; May 25; Gaz. vol. 214; p. 1174.
- Strainer. H. W. Miller. No. 1,139,992; May 18; Gaz. vol. 214; p. 872.
- Strainer. C. L. Rayfield. No. 1,160,653; Nov. 16; Gaz. vol. 220; p. 876.
- Strainer attachment for cooking utensils. T. J. Nash. No. 1,130,756; Mar. 9; Gaz. vol. 212; p. 353.
- Strainer, Coffee-pot. J. O. Wick. No. 1,130,557; Mar. 2; Gaz. vol. 212; p. 252.
- Strainer for drain-pipes. J. S. Westergren. No. 1,155,852; Oct. 5; Gaz. vol. 219; p. 185.
- Strainer for faucets. J. Cormeny. No. 1,156,274; Oct. 12; Gaz. vol. 219; p. 353.
- Strainer, funnel, and lid for culinary vessels, Combination. A. A. Cook. No. 1,137,190; Apr. 27; Gaz. vol. 213; p. 1222.
- Strainer, Gasolene. D. A. Bennett. No. 1,146,748; July 13; Gaz. vol. 216; p. 640.
- Strainer, Gasolene. M. L. Grove. No. 1,155,914; Oct. 5; Gaz. vol. 219; p. 205.
- Strainer, Liquid. F. E. Getts. No. 1,130,725; Mar. 9; Gaz. vol. 212; p. 342.
- Strainer, Liquid. A. W. Klemt. No. 1,156,785; Oct. 12; Gaz. vol. 219; p. 533.
- Strainer, Pipe. R. C. Monteagle. No. 1,152,831; Sept. 7; Gaz. vol. 218; p. 166.
- Strainer, Sauce. L. B. Hettel. No. 1,148,384; July 27; Gaz. vol. 216; p. 1264.
- Strainer, Sink. E. Ferran. No. 1,161,766; Nov. 23; Gaz. vol. 220; p. 1312.
- Strainer, Sink. E. Fisher. No. 1,160,869; Nov. 16; Gaz. vol. 220; p. 952.
- Strainer, Sink. A. J. Smith. No. 1,127,301; Feb. 2; Gaz. vol. 211; p. 223.
- Strainer, Sanitary milk-bucket. R. J. Meyer. No. 1,163,940; Dec. 14; Gaz. vol. 221; p. 468.
- Strainer, Well. J. H. McEvoy. No. 1,154,709; Sept. 28; Gaz. vol. 218; p. 922.
- Strainers, &c., Holder for. R. Washburn and A. W. Martin. No. 1,149,878; Aug. 10; Gaz. vol. 217; p. 601.
- Straining device. R. S. Darling. No. 1,153,768; Sept. 14; Gaz. vol. 218; p. 534.
- Straining device. F. R. Ellis. No. 1,160,154; Nov. 16; Gaz. vol. 220; p. 699.
- Straining device. N. J. Kepple. No. 1,148,689; Aug. 3; Gaz. vol. 217; p. 74.
- Straining device for sinks and the like. H. E. Strobhart. No. 1,145,938; July 13; Gaz. vol. 216; p. 356.

Alphabetical list of inventions—Continued.

- Straining paper-pulp, Apparatus for.** W. W. Beaumont. No. 1,148,651; Aug. 3; Gaz. vol. 217; p. 61.
- Strap:** *See—*
- Box-strap. Woven strap.
- Strap and line reel.** B. C. Skinner. No. 1,164,417; Dec. 14; Gaz. vol. 221; p. 634.
- Strap-support, Adjustable.** A. T. Keith. No. 1,136,963; Apr. 27; Gaz. vol. 213; p. 1139.
- Strap-tightening implement.** E. E. Flora. No. 1,149,569; Aug. 10; Gaz. vol. 217; p. 487.
- Strap-trimming machine.** J. M. S. Carroll. No. 1,157,844; Oct. 26; Gaz. vol. 219; p. 998.
- Strap-wrench.** G. H. Mitchell, Sr. No. 1,161,402; Nov. 23; Gaz. vol. 220; p. 1188.
- Straw and grain separator.** J. Zieber. No. 1,147,911; July 27; Gaz. vol. 216; p. 1095.
- Straw-bruisher.** J. B. Bartholomew. No. 1,159,822; Nov. 9; Gaz. vol. 220; p. 529.
- Straw-bruisher.** W. F. MacGregor and A. C. Foster. No. 1,154,262; Sept. 21; Gaz. vol. 218; p. 740.
- Straw, &c., carrier, Baled.** E. L. Young. No. 1,150,320; Aug. 17; Gaz. vol. 217; p. 820.
- Straw-holder.** E. O'Connor. No. 1,139,365; May 11; Gaz. vol. 214; p. 615.
- Straw-spreader.** C. R. Davis. No. 1,124,711; Jan. 12; Gaz. vol. 210; p. 573.
- Straw-spreader.** D. Garst. No. 1,147,012; July 20; Gaz. vol. 216; p. 753.
- Straw-spreader.** A. Hubbell. No. 1,163,013; Dec. 7; Gaz. vol. 221; p. 97.
- Straw, Treating flax-.** J. E. Lappen. No. 1,158,245; Oct. 26; Gaz. vol. 219; p. 1139.
- Stream-deflector.** W. H. Dean. No. 1,151,445; Aug. 24; Gaz. vol. 217; p. 1261.
- Streams in sandy strata, Harnessing the underflow adjacent to.** J. H. Hunter. No. 1,125,848; Jan. 19; Gaz. vol. 210; p. 1013.
- Street and station indicator.** R. F. America. No. 1,147,590; July 20; Gaz. vol. 216; p. 955.
- Street and station indicator.** J. H. Ebert. No. 1,159,478; Nov. 9; Gaz. vol. 220; p. 405.
- Street and station indicator.** H. A. and C. H. Fleck, Jr. No. 1,159,484; Nov. 9; Gaz. vol. 220; p. 407.
- Street and station indicator.** W. Jacobsen, J. D. Cameron, and F. J. Lough. No. 1,135,693; Apr. 13; Gaz. vol. 213; p. 614.
- Street and station indicator.** H. W. Lewis. No. 1,127,461; Feb. 9; Gaz. vol. 211; p. 320.
- Street-cleaner.** W. R. Perry. No. 1,143,133; June 15; Gaz. vol. 215; p. 793.
- Street-cleaner, Vacuum.** P. A. Bayless. No. 1,151,856; Aug. 31; Gaz. vol. 217; p. 1453.
- Street-cleaning apparatus for melting snow and the like.** C. T. Smith. No. 1,160,205; Nov. 16; Gaz. vol. 220; p. 717.
- Street-cleaning machine.** A. S. Emerson. No. 1,145,129; July 6; Gaz. vol. 216; p. 55.
- Street-indicator.** A. S. B. Little and R. M. Feustel. No. 1,155,587; Oct. 5; Gaz. vol. 219; p. 90.
- Street-indicator.** F. C. Luethy. No. 1,142,718; June 8; Gaz. vol. 215; p. 607.
- Street-indicator.** W. Morrone. No. 1,149,392; Aug. 10; Gaz. vol. 217; p. 426.
- Street-marker, Iron-cased-basket.** A. C. Hobbs. No. 1,130,086; Mar. 2; Gaz. vol. 212; p. 85.
- Street or station indicator.** B. Ledermann. No. 1,160,913; Nov. 16; Gaz. vol. 220; p. 967.
- Street-sprinkler.** F. A. Stiers. No. 1,156,327; Oct. 12; Gaz. vol. 219; p. 371.
- Street-sprinkling device.** J. Howard. No. 1,123,746; Jan. 5; Gaz. vol. 210; p. 187.
- Street-sweeper.** A. Brown. No. 1,144,292; June 22; Gaz. vol. 215; p. 1223.
- Street-sweeper.** C. H. Butler. No. 1,134,586; Apr. 6; Gaz. vol. 213; p. 134.
- Street-sweeper.** R. W. Furnas. No. 1,150,936; Aug. 24; Gaz. vol. 217; p. 1091.
- Street-sweeper.** C. J. Gardner. No. 1,142,415; June 8; Gaz. vol. 215; p. 505.
- Street-sweeper.** L. S. Hackney. No. 1,152,726; Sept. 7; Gaz. vol. 218; p. 127.
- Street-sweeper.** T. R. Kerr. No. 1,143,052; June 15; Gaz. vol. 215; p. 765.
- Street-sweeper.** M. M. Nixon. No. 1,130,758; Mar. 9; Gaz. vol. 212; p. 354.
- Street-sweeper.** J. H. Osten. No. 1,163,948; Dec. 14; Gaz. vol. 221; p. 470.
- Street-sweeper.** D. Sillo. No. 1,143,148; June 15; Gaz. vol. 215; p. 798.
- Street-sweepers, Dust-collector mechanism for.** F. R. Brugger. No. 1,137,184; Apr. 27; Gaz. vol. 213; p. 1220.
- Street-sweepers, Gathering-hood for pneumatic.** R. W. Furnas. No. 1,124,603; Jan. 12; Gaz. vol. 210; p. 534.
- Street-sweeping machine.** J. Bonner and W. B. Walsh. No. 1,149,893; Aug. 10; Gaz. vol. 217; p. 607.
- Street-sweeping machine.** A. S. Davis and C. H. Pedrick, Jr. No. 1,148,519; Aug. 3; Gaz. vol. 217; p. 35.
- Street-sweeping machine.** F. B. Fish. No. 1,159,202; Nov. 2; Gaz. vol. 220; p. 276.
- Street-sweeping machine.** L. J. Lockwood. No. 1,145,324; July 6; Gaz. vol. 216; p. 121.
- Street-sweeping machine.** F. S. Shaffer. No. 1,151,408; Aug. 24; Gaz. vol. 217; p. 1249.
- Street-sweeping machines, Dust-collector for pneumatic.** J. R. Pollock. No. 1,155,272; Sept. 28; Gaz. vol. 218; p. 1112.
- Stress-testing machine, Repeated.** J. B. Kommers. No. 1,163,830; Dec. 14; Gaz. vol. 221; p. 430.
- Stretcher.** C. R. Clark. No. 1,159,746; Nov. 9; Gaz. vol. 220; p. 501.
- Stretcher.** A. Hajas. No. 1,129,089; Feb. 23; Gaz. vol. 211; p. 973.
- Stretcher, &c. N. C. Ampt.** No. 1,150,008; Aug. 17; Gaz. vol. 217; p. 709.
- Stretcher and body-carrier, Combined.** J. Bizon. No. 1,131,987; Mar. 16; Gaz. vol. 212; p. 818.
- Stretcher, cot, and hammock, Combined.** H. Menten. No. 1,151,495; Aug. 24; Gaz. vol. 217; p. 1280.
- Stretcher, Foldable.** M. Kozak. No. 1,146,802; July 20; Gaz. vol. 216; p. 679.
- Stretcher, Foldable.** J. Seniuk. No. 1,136,174; Apr. 20; Gaz. vol. 213; p. 822.
- Stretcher, Folding.** H. L. Fillius. No. 1,151,932; Aug. 31; Gaz. vol. 217; p. 1477.
- Stretcher-support.** J. T. Sheets. No. 1,142,276; June 8; Gaz. vol. 215; p. 455.
- Stretching-machine.** J. S. Young. No. 1,162,008; Nov. 30; Gaz. vol. 220; p. 1444.
- Striking-block.** W. S. Trowbridge. No. 1,165,729; Dec. 28; Gaz. vol. 221; p. 1173.
- Stringed instruments, Shoulder-rest for.** F. W. Becker. No. 1,163,636; Dec. 14; Gaz. vol. 221; p. 360.
- Stringer-support.** C. E. Fuller. No. 1,144,031; June 22; Gaz. vol. 215; p. 1131.
- Strip-fastener.** F. S. Jewett. No. 1,130,295; Mar. 2; Gaz. vol. 212; p. 158.
- Strip feeding and cutting machine.** W. K. Thomas. No. 1,150,906; Aug. 24; Gaz. vol. 217; p. 1080.
- Strip-guide.** C. E. Hall. No. 1,155,920; Oct. 5; Gaz. vol. 219; p. 207.
- Strip-holder.** C. J. Alfred. No. 1,137,732; May 4; Gaz. vol. 214; p. 5.
- Strip-material reel.** W. F. Fassett. No. 1,127,979; Feb. 9; Gaz. vol. 211; p. 502.
- Strip-serving apparatus.** T. M. Foote. No. 1,149,144; Aug. 3; Gaz. vol. 217; p. 231.
- Strip-serving device.** A. A. Adams. No. 1,166,106; Dec. 28; Gaz. vol. 221; p. 1302.
- Strip-serving device.** F. S. Anable. No. 1,147,290; July 20; Gaz. vol. 216; p. 849.
- Strip-serving device.** F. S. Anable. No. 1,150,802; Aug. 17; Gaz. vol. 217; p. 986.
- Stripping mechanism.** H. H. Eaton. No. 1,161,038; Nov. 23; Gaz. vol. 220; p. 1056.
- Stripping device.** E. A. Moore. No. 1,159,979; Nov. 9; Gaz. vol. 220; p. 585.
- Stroke mechanism, Adjustable.** H. Sullivan. No. 1,128,544; Feb. 16; Gaz. vol. 211; p. 748.
- Stropping-machine.** G. Browning. No. 1,142,076; June 8; Gaz. vol. 215; p. 385.
- Stropping-machine.** H. J. Gaisman. No. 1,163,332; Dec. 7; Gaz. vol. 221; p. 210.
- Structural imitation of natural objects.** B. W. Gates. No. 1,150,027; Aug. 17; Gaz. vol. 217; p. 716.
- Structural unit.** W. H. Burk. No. 1,146,999; July 20; Gaz. vol. 216; p. 749.
- Structure, Collapsible metallic.** J. O. Ellinger. No. 1,140,448; May 25; Gaz. vol. 214; p. 1067.
- Structure, Folding.** E. M. Atkinson. No. 1,145,825; July 6; Gaz. vol. 216; p. 298.
- Structure for educational and recreative purposes.** F. A. Pridmore. No. 1,137,167; Apr. 27; Gaz. vol. 213; p. 1214.
- Structure, Heavy-duty.** A. L. De Leeuw. No. 1,132,534; Mar. 16; Gaz. vol. 212; p. 1018.
- Structure made of relatively movable and interlocking sections.** H. Gasstrom. No. 1,159,012; Nov. 2; Gaz. vol. 220; p. 209.
- Structure, Making a metallic.** W. H. Sommer. No. 1,143,655; June 22; Gaz. vol. 215; p. 1000.
- Structures, Controlling means for gyrotary.** G. W. Combs. No. 1,142,146; June 8; Gaz. vol. 215; p. 410.
- Structure, Spring.** G. A. Franz. No. 1,133,949; Mar. 30; Gaz. vol. 212; p. 1609.
- Stucco and other plastering materials, Perforated support for.** M. H. Jester. No. 1,123,304; Jan. 5; Gaz. vol. 210; p. 35.
- Stud.** L. E. Ladd. No. 1,132,662; Mar. 23; Gaz. vol. 212; p. 1113.
- Stud and support, Adjustable fixture.** A. M. Knauber. No. 1,135,699; Apr. 13; Gaz. vol. 213; p. 616.
- Stud, Elastic press-.** F. Käfer and A. Wiesinger. No. 1,134,049; Mar. 30; Gaz. vol. 212; p. 1642.
- Stud-setting machine, Lacing-.** E. E. Wakefield. No. 1,133,594; Mar. 30; Gaz. vol. 212; p. 1485.
- Stud-setting machine, Lacing-.** E. E. Wakefield. No. 1,151,553; Sept. 21; Gaz. vol. 218; p. 839.
- Stud-setting tool.** S. Schneider. No. 1,125,186; Jan. 19; Gaz. vol. 210; p. 778.
- Stud-threading machine.** O. A. Smith. No. 1,153,456; Sept. 14; Gaz. vol. 218; p. 425.
- Studding for plaster-boards and the like.** E. E. Fletcher. No. 1,130,722; Mar. 9; Gaz. vol. 212; p. 342.

Alphabetical list of inventions—Continued.

- Studding-socket.** F. W. Honens. No. 1,162,164; Nov. 30; Gaz. vol. 220; p. 1499.
- Study-chair, Combination.** E. O. Klemm and E. W. Schreiber. No. 1,161,691; Nov. 23; Gaz. vol. 220; p. 1287.
- Stuff-meter.** E. J. Trimby. No. 1,161,168; Nov. 23; Gaz. vol. 220; p. 1103.
- Stuffing-box.** J. F. Knorr and C. Andrade, Jr. No. 1,153,933; Sept. 21; Gaz. vol. 218; p. 627.
- Stuffing-box.** W. H. Kobbé. No. 1,128,793; Feb. 16; Gaz. vol. 211; p. 832.
- Stuffing-box follower.** W. H. O'Neil. No. 1,143,854; June 22; Gaz. vol. 215; p. 1068.
- Stuffing-box, Hydraulic.** T. M. Platt. No. 1,124,514; Jan. 12; Gaz. vol. 210; p. 503.
- Stump-boring machine.** F. A. Long. No. 1,127,047; Feb. 2; Gaz. vol. 211; p. 135.
- Stump-burner.** W. J. Cassity. No. 1,126,388; Jan. 26; Gaz. vol. 210; p. 1241.
- Stump-burner.** E. Tilden. No. 1,160,012; Nov. 9; Gaz. vol. 220; p. 596.
- Stump-burner.** Hot-blast. J. V. De Lamater. No. 1,153,610; Sept. 14; Gaz. vol. 218; p. 481.
- Stump-burning apparatus.** S. F. Zysset. No. 1,141,747; June 1; Gaz. vol. 215; p. 233.
- Stump-cutting machine.** A. L. and G. D. Moore. No. 1,164,653; Dec. 21; Gaz. vol. 221; p. 758.
- Stump-puller.** J. O. Brown. No. 1,160,038; Nov. 9; Gaz. vol. 220; p. 604.
- Stump-puller.** C. F. Burns. No. 1,143,358; June 15; Gaz. vol. 215; p. 874.
- Stump-puller.** A. L. Kern. No. 1,126,227; Jan. 26; Gaz. vol. 210; p. 1185.
- Stump-puller.** W. Kilborn. No. 1,159,953; Nov. 9; Gaz. vol. 220; p. 577.
- Stump-puller.** P. S. Lawton. No. 1,143,209; June 15; Gaz. vol. 215; p. 822.
- Stump-puller.** E. A. Miles. No. 1,126,820; Feb. 2; Gaz. vol. 211; p. 56.
- Stump-puller.** M. Mullins. No. 1,136,702; Apr. 20; Gaz. vol. 213; p. 1011.
- Stump-puller.** W. L. Shaffer. No. 1,152,232; Aug. 31; Gaz. vol. 217; p. 1582.
- Stump-puller.** F. R. Smith. No. 1,140,409; May 25; Gaz. vol. 214; p. 1054.
- Stump-puller.** R. O. Wiperman. No. 1,130,457; Mar. 2; Gaz. vol. 212; p. 216.
- Stump-puller and tree-carrier.** J. W. Snodgrass. No. 1,143,455; June 15; Gaz. vol. 215; p. 908.
- Stump remover and destroyer.** C. C. Sullivan and L. P. Davis. No. 1,153,270; Sept. 14; Gaz. vol. 218; p. 358.
- Stylus.** A. B. Dick. No. 1,145,571; July 6; Gaz. vol. 216; p. 208.
- Stylus.** A. B. Dick. No. 1,152,800; Sept. 7; Gaz. vol. 218; p. 154.
- Subaqueous operations, Staging for.** R. A. A. S. Piercy. No. 1,128,040; Feb. 9; Gaz. vol. 211; p. 524.
- Subcar.** S. T. Power. No. 1,149,407; Aug. 10; Gaz. vol. 217; p. 431.
- Submarine.** J. M. Cage. No. 1,126,616; Jan. 26; Gaz. vol. 210; p. 1325.
- Submarine automatic air-intake, &c.** A. Hoar. No. 1,151,540; Aug. 24; Gaz. vol. 217; p. 1296.
- Submarine chambers, Pressure control for.** M. Klein. No. 1,131,712; Mar. 16; Gaz. vol. 212; p. 717.
- Submarine operations, Staging or support for.** R. A. A. S. Piercy. No. 1,127,507; Feb. 9; Gaz. vol. 211; p. 337.
- Submarine operations, Staging or support for.** R. A. A. S. Piercy. No. 1,128,039; Feb. 9; Gaz. vol. 211; p. 523.
- Submarine or submersible boats, Safety device for.** E. L. Peacock. No. 1,143,131; June 15; Gaz. vol. 215; p. 792.
- Submarine signaling, Sounder for.** R. L. Williams. No. 1,131,764; Mar. 16; Gaz. vol. 212; p. 736.
- Submarine warfare, Means for conducting.** C. M. Wheaton. No. 1,131,761; Mar. 16; Gaz. vol. 212; p. 735.
- Submarine with detachable conning-tower for life-saving purposes.** V. Cavallini. No. 1,159,745; Nov. 9; Gaz. vol. 220; p. 501.
- Submarines and the like, Device for attracting.** L. Schramm, Jr. No. 1,143,233; June 15; Gaz. vol. 215; p. 831.
- Submarines, Buoy for.** W. H. Amberger. No. 1,160,122; Nov. 16; Gaz. vol. 220; p. 688.
- Submarines, Means of escape from.** W. J. Kenely. No. 1,152,420; Sept. 7; Gaz. vol. 218; p. 13.
- Submarines, Safety apparatus for.** M. J. L. P. Bonard. No. 1,156,970; Oct. 19; Gaz. vol. 219; p. 628.
- Submarines, Safety-float for.** H. E. Keller and H. M. Siedschlag. No. 1,159,683; Nov. 9; Gaz. vol. 220; p. 478.
- Submerged bodies, Apparatus for raising.** H. Byrns. No. 1,164,067; Dec. 14; Gaz. vol. 221; p. 512.
- Subsoil by the aid of electricity, Determining the nature of the.** C. Schlumberger. No. 1,163,468; Dec. 7; Gaz. vol. 221; p. 256.
- Subsoiler.** T. C. Busbee. No. 1,157,295; Oct. 19; Gaz. vol. 219; p. 745.
- Subsoiler attachment.** D. Yost. No. 1,162,842; Dec. 7; Gaz. vol. 221; p. 39.
- Subsoiling apparatus.** J. V. Gudmond-Hoyer. No. 1,125,018; Jan. 12; Gaz. vol. 210; p. 683.
- Subterranean areas, Device for determining load-carrying capacity of.** J. F. O'Rourke. No. 1,143,645; June 22; Gaz. vol. 215; p. 997.
- Subways, Water-circulation system for.** W. A. Barker. No. 1,144,094; June 22; Gaz. vol. 215; p. 1152.
- Sucker-rod puller.** J. B. Dunlap and W. D. Bryan. No. 1,147,080; July 20; Gaz. vol. 216; p. 777.
- Sucker-rod socket, Combination.** E. E. Osborne. No. 1,153,818; Sept. 14; Gaz. vol. 218; p. 553.
- Sucker-rod socket, Combination.** A. M. Stewart. No. 1,123,615; Jan. 5; Gaz. vol. 210; p. 143.
- Suction apparatus.** F. Roemer. No. 1,133,184; Mar. 23; Gaz. vol. 212; p. 1304.
- Suction-cleaner.** E. M. Barnes. No. 1,156,874; Oct. 19; Gaz. vol. 219; p. 594.
- Suction-cleaner.** M. Dennis. No. 1,129,174; Feb. 23; Gaz. vol. 211; p. 1003.
- Suction-head connection.** G. Brand. No. 1,136,889; Apr. 20; Gaz. vol. 213; p. 1076.
- Suction-machine.** J. Wynn, Jr. No. 1,165,562; Dec. 28; Gaz. vol. 221; p. 1111.
- Suction-roller.** C. P. Brown. No. 1,145,745; July 6; Gaz. vol. 216; p. 270.
- Sugar-bearing bodies, Producing.** G. H. Benjamin. No. 1,140,353; May 25; Gaz. vol. 214; p. 1033.
- Sugar-bowl.** J. E. Riddle. No. 1,165,907; Dec. 28; Gaz. vol. 221; p. 1233.
- Sugar-bowl, Sanitary.** V. A. Tomsy. No. 1,157,910; Oct. 26; Gaz. vol. 219; p. 1022.
- Sugar-box.** I. F. Thomas. No. 1,152,992; Sept. 7; Gaz. vol. 218; p. 225.
- Sugar-container.** J. Hirshfeld. No. 1,140,822; May 25; Gaz. vol. 214; p. 1197.
- Sugar container and dispenser.** W. V. McBroom. No. 1,155,323; Sept. 28; Gaz. vol. 218; p. 1129.
- Sugar-container, Sanitary.** W. Goldfarb. No. 1,154,506; Sept. 21; Gaz. vol. 218; p. 823.
- Sugar-dispenser.** W. A. Smith and T. L. Flynn. No. 1,155,013; Sept. 28; Gaz. vol. 218; p. 1025.
- Sugar dispenser, Sanitary loaf.** H. A. Clark. No. 1,125,653; Jan. 19; Gaz. vol. 210; p. 943.
- Sugar in the form of fine crystals, Preparation of.** P. Kestner. No. 1,149,067; Aug. 3; Gaz. vol. 217; p. 206.
- Sugar-machine, Centrifugal.** C. Kirchner. No. 1,126,485; Jan. 26; Gaz. vol. 210; p. 1274.
- Sugar, Manufacture of.** W. Seaby. No. 1,146,456; July 13; Gaz. vol. 216; p. 541.
- Sugar product and producing the same.** J. J. Armstrong. No. 1,154,557; Sept. 21; Gaz. vol. 218; p. 841.
- Sugar, Refining raw cane.** F. Murke. No. 1,132,868; Mar. 23; Gaz. vol. 212; p. 1189.
- Sugar-wafer machine.** L. Aunes. No. 1,164,566; Dec. 14; Gaz. vol. 221; p. 685.
- Suit case, Dress.** J. C. O'Neill. No. 1,150,058; Aug. 17; Gaz. vol. 217; p. 726.
- Suit, Combination.** W. K. Jones. No. 1,142,580; June 8; Gaz. vol. 215; p. 562.
- Suit, Combination.** W. K. Jones. No. 1,145,771; July 6; Gaz. vol. 216; p. 279.
- Suit-hanger.** J. B. Staadeker. No. 1,130,643; Mar. 2; Gaz. vol. 212; p. 280.
- Suitcase.** I. H. Lyons and R. J. Gruenberg. No. 1,127,366; Feb. 2; Gaz. vol. 211; p. 244.
- Suitcase.** J. C. O'Neill. No. 1,150,057; Aug. 17; Gaz. vol. 217; p. 725.
- Suitcase.** M. W. Rosenfeld. No. 1,153,136; Sept. 7; Gaz. vol. 218; p. 271.
- Suitcase.** H. Tueckmantel. No. 1,131,443; Mar. 9; Gaz. vol. 212; p. 589.
- Suitcase-handle.** D. Green. No. 1,156,993; Oct. 19; Gaz. vol. 219; p. 637.
- Suitcase-hasp.** T. J. Carroll. No. 1,140,949; May 25; Gaz. vol. 214; p. 1243.
- Suitcase, Knockdown.** A. J. Forward. No. 1,160,871; Nov. 16; Gaz. vol. 220; p. 952.
- Suitcase, Wardrobe.** F. D. Warren. No. 1,132,530; Mar. 16; Gaz. vol. 212; p. 1016.
- Sulfate-furnace, Mechanical.** K. Thelen and F. Wolf. No. 1,165,815; Dec. 28; Gaz. vol. 221; p. 1201.
- Sulfate of ammonia and in the purification of coal-gas, Manufacture of.** J. MacKenzie. No. 1,155,753; Oct. 5; Gaz. vol. 219; p. 148.
- Sulfating materials.** H. B. Hovland and G. B. Frankforter. No. 1,159,032; Nov. 2; Gaz. vol. 220; p. 214.
- Sulfating materials.** H. B. Hovland and G. B. Frankforter. No. 1,159,033; Nov. 2; Gaz. vol. 220; p. 215.
- Sulfids from ores, Separation of metallic.** T. M. Owen. No. 1,157,176; Oct. 19; Gaz. vol. 219; p. 702.
- Sulfids of phosphorus, Producing.** F. C. Frary. No. 1,153,054; Sept. 7; Gaz. vol. 218; p. 245.
- Sulfite liquor, Apparatus for fermenting.** P. G. Ekström. No. 1,139,507; May 18; Gaz. vol. 214; p. 702.
- Sulfite-liquor save-all, Waste.** J. C. Pollanz. No. 1,156,551; Oct. 12; Gaz. vol. 219; p. 452.
- Sulfite liquor to a powder, Reducing waste.** F. H. Kennard. No. 1,138,118; May 4; Gaz. vol. 214; p. 141.
- Sulfite liquor, Treating waste.** M. W. Hedden. No. 1,130,817; Mar. 9; Gaz. vol. 212; p. 374.
- Sulfite liquors, Binding and impregnating materials made from waste.** E. Pollacek. No. 1,133,499; Mar. 30; Gaz. vol. 212; p. 1450.

Alphabetical list of inventions—Continued.

- Sulfite waste liquor and product thereof, Treating. O. W. Knight. No. 1,143,714; June 22; Gaz. vol. 215; p. 1020.
- Sulfur and alkali compounds, Making and preserving. C. E. Hite. No. 1,132,476; Mar. 16; Gaz. vol. 212; p. 995.
- Sulfur and sulfates from polythionate solutions, Production of. W. Feld. No. 1,127,219; Feb. 2; Gaz. vol. 211; p. 196.
- Sulfur-burner. A. G. Hinzke. No. 1,149,765; Aug. 10; Gaz. vol. 217; p. 560.
- Sulfur dioxide, Recovery of. J. B. Garner. No. 1,145,579; July 6; Gaz. vol. 216; p. 210.
- Sulfur from pyrites and other metallic sulfids, Production of. W. A. Hall. No. 1,133,636; Mar. 30; Gaz. vol. 212; p. 1501.
- Sulfur from sulfur gases, Recovering elemental. W. F. Lamoreaux and C. W. Renwick. No. 1,140,310; May 18; Gaz. vol. 214; p. 982.
- Sulky, Child's. G. H. Barschow. No. 1,127,389; Feb. 9; Gaz. vol. 211; p. 293.
- Sulky, Child's. C. W. Bennett. No. 1,131,197; Mar. 9; Gaz. vol. 212; p. 504.
- Sulky, Child's. G. P. Steinbach. No. 1,151,414; Aug. 24; Gaz. vol. 217; p. 1251.
- Sulky, Collapsible. R. H. Brown. No. 1,148,658; Aug. 3; Gaz. vol. 217; p. 63.
- Sun-dial and locometer. C. L. Early. No. 1,146,412; July 13; Gaz. vol. 216; p. 523.
- Sunshade. E. M. Coyne. No. 1,143,891; June 22; Gaz. vol. 215; p. 1080.
- Superball. G. B. Weller. No. 1,132,813; Mar. 23; Gaz. vol. 212; p. 1169.
- Superheater. G. R. Henderson and W. I. Cantley. No. 1,142,254; June 8; Gaz. vol. 215; p. 447.
- Superheater. S. J. Hungerford. No. 1,124,446; Jan. 12; Gaz. vol. 210; p. 478.
- Superheater. H. W. Jacobs. No. 1,125,690; Jan. 19; Gaz. vol. 210; p. 959.
- Superheater. H. W. Jacobs. No. 1,125,849; Jan. 19; Gaz. vol. 210; p. 1013.
- Superheater. W. Johnson. No. 1,157,546; Oct. 19; Gaz. vol. 219; p. 832.
- Superheater. W. A. Moffat. No. 1,144,911; June 20; Gaz. vol. 215; p. 1462.
- Superheater. C. D. Mosher. No. 1,150,952; Aug. 24; Gaz. vol. 217; p. 1097.
- Superheater. J. Primrose. No. 1,157,722; Oct. 26; Gaz. vol. 219; p. 956.
- Superheater. P. Thomsen. No. 1,139,601; May 18; Gaz. vol. 214; p. 733.
- Superheater. S. Tripp. No. 1,141,993; June 8; Gaz. vol. 215; p. 354.
- Superheater. C. D. Young. No. 1,135,422; Apr. 13; Gaz. vol. 213; p. 517.
- Superheater and economizer for horizontal smoke-tube boilers. F. Bürger. No. 1,143,501; June 15; Gaz. vol. 215; p. 922.
- Superheater-boiler. D. S. Jacobus. No. 1,150,944; Aug. 24; Gaz. vol. 217; p. 1094.
- Superheater for boilers. G. Cook. No. 1,140,956; May 25; Gaz. vol. 214; p. 1246.
- Superheater for boilers, Steam-. J. S. Milne. No. 1,163,357; Dec. 7; Gaz. vol. 221; p. 218.
- Superheater for steam-boilers. C. W. Crowell. No. 1,159,181; Nov. 2; Gaz. vol. 220; p. 268.
- Superheater for water-tube boilers. H. E. Yarrow. No. 1,143,476; June 15; Gaz. vol. 215; p. 915.
- Superheater-header. J. Primrose. No. 1,129,122; Feb. 23; Gaz. vol. 211; p. 985.
- Superheater, Locomotive-. E. H. Foster. No. 1,151,934; Aug. 31; Gaz. vol. 217; p. 1477.
- Superheater, Locomotive-. E. G. Goodwin. No. 1,153,216; Sept. 14; Gaz. vol. 218; p. 338.
- Superheater, Locomotive-. J. Primrose. No. 1,152,839; Sept. 7; Gaz. vol. 218; p. 168.
- Superheater, Locomotive-. G. B. Rait. No. 1,147,815; July 27; Gaz. vol. 216; p. 1060.
- Superheater, Steam-. W. F. J. Casey. No. 1,127,402; Feb. 9; Gaz. vol. 211; p. 298.
- Superheater, Steam-. W. F. J. Casey. No. 1,132,069; Mar. 16; Gaz. vol. 212; p. 847.
- Superheater, Steam-. W. F. J. Casey. No. 1,140,116; May 18; Gaz. vol. 214; p. 918.
- Superheater, Steam-. T. F. Gray. No. 1,129,667; Feb. 23; Gaz. vol. 211; p. 1175.
- Superheater, Steam-. C. S. Hooper and R. C. Stevens. No. 1,125,099; Jan. 19; Gaz. vol. 210; p. 746.
- Superheater, Steam-. D. S. Jacobus. No. 1,150,943; Aug. 24; Gaz. vol. 217; p. 1093.
- Superheater, Steam-. J. Primrose. No. 1,132,211; Mar. 16; Gaz. vol. 212; p. 899.
- Superheater, Steam-. W. L. Riley. No. 1,161,976; Nov. 30; Gaz. vol. 220; p. 1433.
- Superheater, Steam-. R. C. Stevens. No. 1,132,225; Mar. 16; Gaz. vol. 212; p. 904.
- Superheater, Steam-. J. H. Stirling. No. 1,129,915; Mar. 2; Gaz. vol. 212; p. 28.
- Superheater, Steam-. E. H. Wells. No. 1,150,407; Aug. 17; Gaz. vol. 217; p. 850.
- Superheater, Steam-boiler. J. Kindervater. No. 1,165,977; Dec. 28; Gaz. vol. 221; p. 1257.
- Superheaters, Steam-collector for. N. T. McKee. No. 1,124,493; Jan. 12; Gaz. vol. 210; p. 495.
- Superheating apparatus, Steam-. E. H. Foster. No. 1,136,114; Apr. 20; Gaz. vol. 213; p. 800.
- Supplementary spring and mounting therefor. J. J. Maguire. No. 1,145,841; July 6; Gaz. vol. 216; p. 303.
- Support. M. A. Burke. No. 1,131,906; Mar. 16; Gaz. vol. 212; p. 788.
- Support. F. H. Evans. No. 1,136,783; Apr. 20; Gaz. vol. 213; p. 1039.
- Support. C. Mathews. No. 1,139,204; May 11; Gaz. vol. 214; p. 560.
- Support. C. C. Schnell. No. 1,142,205; June 8; Gaz. vol. 215; p. 430.
- Support, Adjustable. P. Colidge. No. 1,150,502; Aug. 17; Gaz. vol. 217; p. 883.
- Support, Adjustable. E. J. Madden. No. 1,164,538; Dec. 14; Gaz. vol. 221; p. 676.
- Support, Adjustable. A. Tischer. No. 1,155,383; Oct. 5; Gaz. vol. 219; p. 20.
- Support and clamp. J. H. Hartman. No. 1,124,896; Jan. 12; Gaz. vol. 210; p. 640.
- Support, Extensible. W. H. Meyers. No. 1,145,606; July 6; Gaz. vol. 216; p. 220.
- Support, Foldable. E. T. Condon, Jr. No. 1,148,443; July 27; Gaz. vol. 216; p. 1283.
- Support, Yielding. G. W. Gillespie and P. L. Rookledge. No. 1,145,304; July 6; Gaz. vol. 216; p. 114.
- Supporter. F. M. Wilkins. No. 1,155,856; Oct. 5; Gaz. vol. 219; p. 186.
- Supporting articles of regular or irregular form, Means for. J. E. Storey. No. 1,153,727; Sept. 14; Gaz. vol. 218; p. 521.
- Supporting-bracket. C. H. Greenwood. No. 1,138,750; May 11; Gaz. vol. 214; p. 399.
- Supporting-bracket, Adjustable. S. Weinberg. No. 1,163,797; Dec. 14; Gaz. vol. 221; p. 419.
- Supporting-clamp. E. G. Barger. No. 1,159,821; Nov. 9; Gaz. vol. 220; p. 529.
- Supporting device, Adjustable. W. L. Deming. No. 1,125,668; Jan. 19; Gaz. vol. 210; p. 950.
- Supporting machines, Unit for. E. Kaufmann. No. 1,152,099; Aug. 31; Gaz. vol. 217; p. 1535.
- Supporting member. F. F. Hendrickson. No. 1,149,762; Aug. 10; Gaz. vol. 217; p. 559.
- Supporting-rack. E. G. Metcalf. No. 1,162,298; Nov. 30; Gaz. vol. 220; p. 1545.
- Surface combustion burner. E. J. Allen. No. 1,139,321; May 11; Gaz. vol. 214; p. 598.
- Surface-gage. T. Kopinski. No. 1,135,941; Apr. 13; Gaz. vol. 213; p. 698.
- Surface-heater. G. R. Birney. No. 1,135,493; Apr. 13; Gaz. vol. 213; p. 542.
- Surface-plate. W. C. Commons. No. 1,157,762; Oct. 26; Gaz. vol. 219; p. 969.
- Surfacer, Adjustable. F. E. Rudolph. No. 1,165,452; Dec. 28; Gaz. vol. 221; p. 1074.
- Surfacing-machine. A. Cash. No. 1,148,499; Aug. 3; Gaz. vol. 217; p. 5.
- Surfacing-machine. A. G. Ferrarini. No. 1,134,116; Apr. 6; Gaz. vol. 213; p. 12.
- Surgical apparatus. U. C. Bates and J. McLeland. No. 1,157,202; Oct. 19; Gaz. vol. 219; p. 711.
- Surgical appliance. J. Carlson. No. 1,149,341; Aug. 10; Gaz. vol. 217; p. 409.
- Surgical clip. O. von Herff. No. 1,123,290; Jan. 5; Gaz. vol. 219; p. 30.
- Surgical device. E. D. Brant. No. 1,144,103; June 22; Gaz. vol. 215; p. 1156.
- Surgical garment. F. J. Stuart. No. 1,127,544; Feb. 9; Gaz. vol. 211; p. 348.
- Surgical instrument. E. B. Patterson. No. 1,131,418; Mar. 9; Gaz. vol. 212; p. 579.
- Surgical instrument. J. Starkweather. No. 1,155,169; Sept. 28; Gaz. vol. 218; p. 1081.
- Surgical ligatures and sutures, Means for packing. C. T. Davis. No. 1,123,497; Jan. 5; Gaz. vol. 210; p. 102.
- Surgical needle-holder. E. W. Saunders and E. H. Steedman. No. 1,131,163; Mar. 9; Gaz. vol. 212; p. 492.
- Surgical splint. M. D. Touart. No. 1,131,295; Mar. 9; Gaz. vol. 212; p. 538.
- Surgically cleansing surfaces, Apparatus for. C. E. Kells. No. 1,148,093; July 27; Gaz. vol. 216; p. 1161.
- Surgically cleansing surfaces, Apparatus for. C. E. Kells. No. 1,152,818; Sept. 7; Gaz. vol. 218; p. 161.
- Surprise and alarm device. J. L. Kellogg. No. 1,166,053; Dec. 28; Gaz. vol. 221; p. 1283.
- Surveying instrument. H. Brautigam. No. 1,125,053; Jan. 19; Gaz. vol. 210; p. 730.
- Surveying instrument. M. Giesecke. No. 1,136,951; Apr. 27; Gaz. vol. 213; p. 1135.
- Surveying instrument. R. Yates. No. 1,145,050; July 6; Gaz. vol. 216; p. 28.
- Surveyor's instrument. C. L. Berger. No. 1,125,939; Jan. 26; Gaz. vol. 210; p. 1078.
- Surveyor's instrument. C. L. Berger. No. 1,135,153; Apr. 13; Gaz. vol. 213; p. 426.
- Surveyor's instrument. J. Geier. No. 1,133,122; Mar. 23; Gaz. vol. 212; p. 1281.
- Surveyor's instrument. J. Geier. No. 1,133,123; Mar. 23; Gaz. vol. 212; p. 1282.

- Suspender attachment. C. H. Bradley. No. 1,123,231; Jan. 5; Gaz. vol. 210; p. 10.
- Suspender attachment. E. N. Humphrey. No. 1,160,098; Nov. 9; Gaz. vol. 220; p. 625.
- Suspender attachment. Overall. G. A. Gledhill. No. 1,153,060; Sept. 7; Gaz. vol. 218; p. 247.
- Suspender-clasp. M. Glatt. No. 1,152,408; Sept. 7; Gaz. vol. 218; p. 9.
- Suspender-clasp. A. Harris. No. 1,142,957; June 15; Gaz. vol. 215; p. 732.
- Suspender-clasp. M. K. Yonts. No. 1,142,132; June 8; Gaz. vol. 215; p. 405.
- Suspender-lock. E. Klatt and R. Kalfirst. No. 1,144,906; June 29; Gaz. vol. 215; p. 1461.
- Suspender-loop. E. L. Ashley. No. 1,138,587; May 4; Gaz. vol. 214; p. 301.
- Suspenders. G. F. Atwood. No. 1,125,792; Jan. 19; Gaz. vol. 210; p. 995.
- Suspenders. S. Martin. (Reissue.) No. 13,939; June 22; Gaz. vol. 215; p. 1249.
- Suspenders and the like. Cord-tube for. E. N. Humphrey. No. 1,161,771; Nov. 23; Gaz. vol. 220; p. 1314.
- Suspending device. G. X. Hickerson and G. C. Hemenway. No. 1,147,863; July 27; Gaz. vol. 216; p. 1077.
- Suspension-clamp. C. W. Dietrich. No. 1,134,519; Apr. 6; Gaz. vol. 213; p. 159.
- Suspension device. W. Cooper. No. 1,154,845; Sept. 28; Gaz. vol. 218; p. 967.
- Suspension device. A. Rosenberg. No. 1,137,906; May 4; Gaz. vol. 214; p. 64.
- Suspension-rack. Revolving. W. H. Martin. No. 1,150,282; Aug. 17; Gaz. vol. 217; p. 808.
- Suspension-rack. Revolving. W. H. Martin. No. 1,151,210; Aug. 24; Gaz. vol. 217; p. 1185.
- Suspension-wheel. W. S. Watson. No. 1,162,670; Nov. 30; Gaz. vol. 220; p. 1668.
- Suspensory. W. S. Wootton. No. 1,135,479; Apr. 13; Gaz. vol. 213; p. 537.
- Swab-unloader. H. F. Beam. No. 1,156,657; Oct. 12; Gaz. vol. 219; p. 491.
- Sweat-band. G. M. Collins. No. 1,133,934; Mar. 30; Gaz. vol. 212; p. 1605.
- Sweat-band. J. J. Decker. No. 1,131,043; Mar. 9; Gaz. vol. 212; p. 452.
- Sweat-band for head-gear. P. and C. S. Merton. No. 1,134,888; Apr. 6; Gaz. vol. 213; p. 288.
- Sweat-band protector. J. Martin. No. 1,164,541; Dec. 14; Gaz. vol. 221; p. 677.
- Sweater. D. Rheinauer. No. 1,158,290; Oct. 26; Gaz. vol. 219; p. 1155.
- Sweep-rake. J. J. Bollerup. No. 1,127,171; Feb. 2; Gaz. vol. 211; p. 179.
- Sweeper. A. Pereira. No. 1,129,118; Feb. 23; Gaz. vol. 211; p. 984.
- Sweeper, Rotary. E. M. Moller. No. 1,133,653; Mar. 30; Gaz. vol. 212; p. 1507.
- Sweeping device, Pneumatic. E. P. Strode. No. 1,149,227; Aug. 10; Gaz. vol. 217; p. 366.
- Sweeping-machine. J. M. Layton and H. G. Haworth. No. 1,128,883; Feb. 16; Gaz. vol. 211; p. 864.
- Swimmer's attachment. R. C. Grady. No. 1,124,887; Jan. 12; Gaz. vol. 210; p. 637.
- Swimmers, Propeller for. A. Sommerfeld. No. 1,130,209; Mar. 2; Gaz. vol. 212; p. 128.
- Swimming apparatus. C. Homewood. No. 1,128,682; Feb. 16; Gaz. vol. 211; p. 794.
- Swimming apparatus. A. Wirsig. No. 1,142,652; June 8; Gaz. vol. 215; p. 586.
- Swimming appliance. H. Bruening. No. 1,142,872; June 15; Gaz. vol. 215; p. 702.
- Swimming appliance. H. White. No. 1,160,023; Nov. 9; Gaz. vol. 220; p. 599.
- Swimming appliance and life-preserver. C. Garrison. No. 1,164,180; Dec. 14; Gaz. vol. 221; p. 550.
- Swimming device. A. H. Brown. No. 1,140,107; May 18; Gaz. vol. 214; p. 915.
- Swimming device. A. E. Due. No. 1,164,584; Dec. 14; Gaz. vol. 221; p. 690.
- Swimming device. J. Jacobs. No. 1,159,945; Nov. 9; Gaz. vol. 220; p. 574.
- Swimming device. T. Royster. No. 1,137,289; Apr. 27; Gaz. vol. 213; p. 1260.
- Swimming-machine. W. D. Brossman. No. 1,135,350; Apr. 13; Gaz. vol. 213; p. 492.
- Swimming-pool. W. S. Franklin. No. 1,125,301; Jan. 19; Gaz. vol. 210; p. 819.
- Swimming-pools, Automatic purifier for. J. C. W. Greth. No. 1,144,327; June 22; Gaz. vol. 215; p. 1235.
- Swing. D. Crawford. No. 1,135,160; Apr. 13; Gaz. vol. 213; p. 428.
- Swing. M. D. Miesner. No. 1,128,709; Feb. 16; Gaz. vol. 211; p. 803.
- Swing. J. W. Moore. No. 1,148,395; July 27; Gaz. vol. 216; p. 1268.
- Swing. W. F. Pilcher. No. 1,136,262; Apr. 20; Gaz. vol. 213; p. 854.
- Swing. A. I. Rabb. No. 1,155,439; Oct. 5; Gaz. vol. 219; p. 40.
- Swing. G. F. Shermer. No. 1,138,802; May 11; Gaz. vol. 214; p. 419.
- Swing. F. Steffens. No. 1,161,264; Nov. 23; Gaz. vol. 220; p. 1139.
- Swing. V. Stohler. No. 1,156,189; Oct. 12; Gaz. vol. 219; p. 325.
- Swing. M. Thomas. No. 1,140,211; May 18; Gaz. vol. 214; p. 949.
- Swing. L. J. Wendling. No. 1,130,948; Mar. 9; Gaz. vol. 212; p. 419.
- Swing, Circle-. J. A. Koehler. No. 1,142,970; June 15; Gaz. vol. 215; p. 737.
- Swing, Circle-. S. McKee and J. H. Blom. No. 1,124,770; Jan. 12; Gaz. vol. 210; p. 595.
- Swing, Foldable porch-. W. A. Slatter and J. J. Kindell. No. 1,146,358; July 13; Gaz. vol. 216; p. 503.
- Swing, Lawn-. M. D. Miesner. No. 1,128,708; Feb. 16; Gaz. vol. 211; p. 803.
- Swing, Lawn-. N. H. Smith. No. 1,143,454; June 15; Gaz. vol. 215; p. 907.
- Swing or chair. H. E. Skeels. No. 1,146,530; July 13; Gaz. vol. 216; p. 566.
- Swing, Porch-. J. M. and R. D. Motznik. No. 1,159,069; Nov. 2; Gaz. vol. 220; p. 227.
- Swing, Rotary. J. G. Merritt and F. W. Watkins. No. 1,155,944; Oct. 5; Gaz. vol. 219; p. 215.
- Swing, Rotary. F. Schwarz. No. 1,139,232; May 11; Gaz. vol. 214; p. 569.
- Swings, Fan attachment for lawn-. C. F. Bettmann. No. 1,125,799; Jan. 19; Gaz. vol. 210; p. 997.
- Swingletree. A. R. Guariglia. No. 1,135,109; Apr. 13; Gaz. vol. 213; p. 410.
- Switch: See—
- | | |
|--------------------------------------|------------------------------|
| Automatic switch. | Pedal-switch. |
| Automobile lock-switch. | Plug-switch. |
| Centrifugal switch. | Pull-switch. |
| Circuit-switch. | Pull pendant switch. |
| Combination-switch. | Push-button switch. |
| Cross-tie switch. | Railway-switch. |
| Cut-out switch. | Railway frogless switch. |
| Disconnective switch. | Railway-track switch. |
| Drum-switch. | Remote-control switch. |
| Electric switch. | Reversing-switch. |
| Electric change-over switch. | Rotary switch. |
| Electric circuit-controlling switch. | Safety-switch. |
| Electric-light switch. | Safety limit-switch. |
| Electric pull-switch. | Section-switch. |
| Electric snap-switch. | Selective switch. |
| Electric time-switch. | Selector-switch. |
| Electrical switch. | Self-locking switch. |
| Electrically-operated switch. | Sequence-switch. |
| Electromagnetic switch. | Signal-switch. |
| Electropneumatic switch. | Snap-switch. |
| End-cell switch. | Starting-switch. |
| Handle-switch. | Telephone-switch. |
| Insulator-switch. | Telltale-switch. |
| Knife-switch. | Thermal switch. |
| Knife-blade switch. | Time-switch. |
| Light-controlling switch. | Time-controlled switch. |
| Line-switch. | Track-switch. |
| Line-testing switch. | Tramway and the like switch. |
| Magnetic switch. | Trolley-switch. |
| Magnetic short-circuiting switch. | Trolley-actuated switch. |
| Oil-switch. | Trolley-wire switch. |
| | Wall-switch. |
- Switch. C. J. Anderson. No. 1,140,491; May 25; Gaz. vol. 214; p. 1084.
- Switch. V. G. Apple. No. 1,132,997; Mar. 23; Gaz. vol. 212; p. 1236.
- Switch. V. G. Apple. No. 1,155,121; Sept. 28; Gaz. vol. 218; p. 1064.
- Switch. V. G. Apple and W. M. S. Miller. No. 1,158,955; Nov. 2; Gaz. vol. 220; p. 191.
- Switch. W. F. Brown. No. 1,160,039; Nov. 9; Gaz. vol. 220; p. 605.
- Switch. C. S. Eppley. No. 1,165,236; Dec. 21; Gaz. vol. 221; p. 961.
- Switch. D. D. Gordon. No. 1,132,470; Mar. 16; Gaz. vol. 212; p. 993.
- Switch. G. W. Hart. No. 1,149,755; Aug. 10; Gaz. vol. 217; p. 557.
- Switch. B. Haskins. No. 1,123,870; Jan. 5; Gaz. vol. 210; p. 229.
- Switch. S. N. Jordan. No. 1,127,631; Feb. 9; Gaz. vol. 211; p. 376.
- Switch. A. Lefebvre. No. 1,126,795; Feb. 2; Gaz. vol. 211; p. 47.
- Switch. O. E. McCoy. No. 1,137,875; May 4; Gaz. vol. 214; p. 53.
- Switch. A. E. Newman. No. 1,150,698; Aug. 17; Gaz. vol. 217; p. 951.
- Switch. H. Pitts. No. 1,139,903; May 18; Gaz. vol. 214; p. 841.
- Switch. L. Reinhard. No. 1,153,257; Sept. 14; Gaz. vol. 218; p. 353.
- Switch. J. L. Schureman. No. 1,148,256; July 27; Gaz. vol. 216; p. 1218.
- Switch. H. A. Steen. No. 1,155,626; Oct. 5; Gaz. vol. 219; p. 104.
- Switch-actuating mechanism. Electrical. W. J. Bohan. No. 1,157,076; Oct. 19; Gaz. vol. 219; p. 666.
- Switch and fuse. Combined. R. Elsmann and C. Dallerup. No. 1,138,857; May 11; Gaz. vol. 214; p. 428.
- Switch and safety-stop for elevated conveyer-tracks. H. Weickel. No. 1,139,611; May 18; Gaz. vol. 214; p. 738.

Alphabetical list of inventions—Continued.

- Switch and signal apparatus. G. W. Fisher and F. Hoyland. No. 1,124,408; Jan. 12; Gaz. vol. 210; p. 464.
- Switch and signal system. R. V. Collins. No. 1,152,790; Sept. 7; Gaz. vol. 218; p. 149.
- Switch-arm lock. W. M. Means and N. C. Celmo. No. 1,142,830; June 15; Gaz. vol. 215; p. 686.
- Switch-box. C. A. Erichson. No. 1,136,324; Apr. 20; Gaz. vol. 213; p. 875.
- Switch-box. R. P. Farrell. No. 1,133,946; Mar. 30; Gaz. vol. 212; p. 1609.
- Switch-box. P. M. Hotchkiss. No. 1,164,349; Dec. 14; Gaz. vol. 221; p. 610.
- Switch-box. C. C. Maisson and R. H. Robinson. No. 1,154,576; Sept. 21; Gaz. vol. 218; p. 848.
- Switch-box. T. E. Murray. No. 1,158,534; Nov. 2; Gaz. vol. 220; p. 44.
- Switch-box. A. C. Power. No. 1,141,359; June 1; Gaz. vol. 215; p. 97.
- Switch-box. J. H. Williams. No. 1,163,388; Dec. 7; Gaz. vol. 221; p. 229.
- Switch-box, Protective. T. E. Murray. No. 1,135,130; Apr. 13; Gaz. vol. 213; p. 418.
- Switch controller. Multiple. P. H. Zimmer. No. 1,127,573; Feb. 9; Gaz. vol. 211; p. 358.
- Switch-controller system. F. N. Reeves and A. E. Lundell. No. 1,165,447; Dec. 28; Gaz. vol. 221; p. 1073.
- Switch-controlling means, Automatic. W. S. Menden. No. 1,149,207; Aug. 10; Gaz. vol. 217; p. 358.
- Switch device, Non-interfering. G. E. Mueller. No. 1,152,963; Sept. 7; Gaz. vol. 218; p. 214.
- Switch for overhead or surface rails or trackage. D. M. Stewart. No. 1,162,320; Nov. 30; Gaz. vol. 220; p. 1554.
- Switch-handle. F. P. Gates. No. 1,166,345; Dec. 28; Gaz. vol. 221; p. 1391.
- Switch heel, Tongue. J. G. Hartley. No. 1,158,685; Nov. 2; Gaz. vol. 220; p. 96.
- Switch-heels, Process relating to. J. G. Hartley. No. 1,158,684; Nov. 2; Gaz. vol. 220; p. 96.
- Switch indicator, Electric. H. H. Berry. No. 1,129,628; Feb. 23; Gaz. vol. 211; p. 1163.
- Switch indicator, Snap. G. B. Thomas. No. 1,129,757; Feb. 23; Gaz. vol. 211; p. 1203.
- Switch-joint, Waterproof. W. E. McEldowney. No. 1,162,793; Dec. 7; Gaz. vol. 221; p. 21.
- Switch-key attachment. E. Simpson. No. 1,142,277; June 8; Gaz. vol. 215; p. 456.
- Switch key, Electrical. W. Kaisling. No. 1,138,224; May 4; Gaz. vol. 214; p. 175.
- Switch-key, Luminous. M. T. Rosenheim. No. 1,147,269; July 20; Gaz. vol. 216; p. 842.
- Switch-key, Plunger. O. A. Shann. No. 1,163,957; Dec. 14; Gaz. vol. 221; p. 473.
- Switch-latching mechanism. E. H. Jacobs. No. 1,126,221; Jan. 26; Gaz. vol. 210; p. 1182.
- Switch-lock, Electric. W. P. Neubert and W. E. Smith. No. 1,126,834; Feb. 2; Gaz. vol. 211; p. 61.
- Switch-locking device. B. D. Horton. No. 1,129,570; Feb. 23; Gaz. vol. 211; p. 1142.
- Switch mechanism. E. M. Robinson. No. 1,140,916; May 25; Gaz. vol. 214; p. 1232.
- Switch mechanism. H. D. Yoakum. No. 1,130,459; Mar. 2; Gaz. vol. 212; p. 217.
- Switch mechanism, Electric. J. F. Grohowsky. No. 1,126,988; Feb. 2; Gaz. vol. 211; p. 114.
- Switch mechanism, Railway. J. Dubois and J. E. Jones. No. 1,140,965; May 25; Gaz. vol. 214; p. 1249.
- Switch mechanisms, Means for operating. R. A. Schoenberg. No. 1,149,789; Aug. 10; Gaz. vol. 217; p. 568.
- Switch movement. B. C. Webster. No. 1,149,312; Aug. 10; Gaz. vol. 217; p. 397.
- Switch-operating device. R. Bell and R. Maguire. No. 1,125,256; Jan. 19; Gaz. vol. 210; p. 804.
- Switch-operating device. D. D. Gordon. No. 1,155,307; Sept. 28; Gaz. vol. 218; p. 1123.
- Switch-operating device. J. M. Lytle. No. 1,133,730; Mar. 30; Gaz. vol. 212; p. 1534.
- Switch-operating device, Adjustable. W. H. Elliot. No. 1,165,080; Dec. 21; Gaz. vol. 221; p. 905.
- Switch-operating mechanism. H. C. Brown. No. 1,161,605; Nov. 23; Gaz. vol. 220; p. 1258.
- Switch-operating mechanism. C. Burton. No. 1,125,957; Jan. 26; Gaz. vol. 210; p. 1084.
- Switch-operating mechanism. J. W. Markham. No. 1,123,338; Jan. 5; Gaz. vol. 210; p. 49.
- Switch-operating mechanism. J. W. Markham. No. 1,145,330; July 6; Gaz. vol. 216; p. 123.
- Switch-operating mechanism. A. J. Pocock. No. 1,128,505; Feb. 16; Gaz. vol. 211; p. 734.
- Switch-operating mechanism, Car. G. A. Errington. No. 1,138,203; May 4; Gaz. vol. 214; p. 168.
- Switch-operating mechanism for electric railways. R. M. Craig. No. 1,140,579; May 25; Gaz. vol. 214; p. 1114.
- Switch-plate. W. H. Burt. No. 1,144,107; June 22; Gaz. vol. 215; p. 1158.
- Switch-plate. H. T. Sperry. No. 1,131,093; Mar. 9; Gaz. vol. 212; p. 468.
- Switch-point controller. E. Beaupré. No. 1,139,749; May 18; Gaz. vol. 214; p. 786.
- Switch-point drain-box. G. A. Errington. No. 1,136,782; Apr. 20; Gaz. vol. 213; p. 1039.
- Switch-point lock. J. T. Lambert and C. P. Cromin. No. 1,148,388; July 27; Gaz. vol. 216; p. 1265.
- Switch-point-locking device. L. J. Sheridan. No. 1,145,807; July 6; Gaz. vol. 216; p. 291.
- Switch-point-operating apparatus. W. F. Bossert. No. 1,136,767; Apr. 20; Gaz. vol. 213; p. 1034.
- Switch-points, Adjustable connection for. W. F. Bossert. No. 1,161,599; Nov. 23; Gaz. vol. 220; p. 1256.
- Switch-rod. W. R. McCollom. No. 1,141,129; June 1; Gaz. vol. 215; p. 13.
- Switch-selector. A. F. Dixon. No. 1,143,368; June 15; Gaz. vol. 215; p. 877.
- Switch-shifter. A. McVey. No. 1,154,526; Sept. 21; Gaz. vol. 218; p. 830.
- Switch-signal, Semaphore. J. B. Gorrell. No. 1,158,482; Nov. 2; Gaz. vol. 220; p. 25.
- Switch-stand. R. J. Breton. No. 1,161,449; Nov. 23; Gaz. vol. 220; p. 1204.
- Switch-stand. T. E. Corrigan. No. 1,147,212; July 20; Gaz. vol. 216; p. 824.
- Switch-stand. N. O. Goldsmith. No. 1,139,964; May 18; Gaz. vol. 214; p. 862.
- Switch-stand. N. O. Goldsmith. No. 1,165,244; Dec. 21; Gaz. vol. 221; p. 964.
- Switch-stand. S. F. Philips. No. 1,154,428; Sept. 21; Gaz. vol. 218; p. 797.
- Switch-stand. R. L. Praetorius. No. 1,157,638; Oct. 19; Gaz. vol. 219; p. 860.
- Switch-stand crank mechanism. F. C. Anderson. No. 1,141,907; June 1; Gaz. vol. 215; p. 289.
- Switch-stand safety device. C. W. Holderbaum and H. Kraft. No. 1,154,513; Sept. 21; Gaz. vol. 218; p. 825.
- Switch-stand semaphore mechanism. F. C. Anderson. No. 1,141,296; June 1; Gaz. vol. 215; p. 74.
- Switch-stand semaphore mechanism. F. C. Anderson. No. 1,141,906; June 1; Gaz. vol. 215; p. 288.
- Switch-support. H. H. Brown. No. 1,125,952; Jan. 26; Gaz. vol. 210; p. 1082.
- Switch-throw-rod connection. E. C. Larry. No. 1,159,319; Nov. 2; Gaz. vol. 220; p. 317.
- Switch-throwing device. F. A. Johnson. No. 1,133,146; Mar. 23; Gaz. vol. 212; p. 1290.
- Switch-throwing device. F. A. Johnson. No. 1,136,809; Apr. 20; Gaz. vol. 213; p. 1048.
- Switch-throwing device. J. Wiener. No. 1,135,238; Apr. 13; Gaz. vol. 213; p. 453.
- Switch-throwing mechanism. R. V. Collins. No. 1,152,791; Sept. 7; Gaz. vol. 218; p. 150.
- Switch-throwing mechanism, Electrical. J. A. Ross. No. 1,123,926; Jan. 5; Gaz. vol. 210; p. 248.
- Switch-tie plate. D. Harrington. No. 1,152,314; Aug. 31; Gaz. vol. 217; p. 1609.
- Switches, Chain-guide for pull. G. W. Goodridge. No. 1,160,879; Nov. 16; Gaz. vol. 220; p. 955.
- Switches, Lever mechanism for. J. G. Lavender and G. Nickels. No. 1,158,246; Oct. 26; Gaz. vol. 219; p. 1139.
- Switches, Power system for automatic. F. R. McBERTY. No. 1,126,804; Feb. 2; Gaz. vol. 211; p. 50.
- Switchboard apparatus. J. A. Wotton. No. 1,159,562; Nov. 9; Gaz. vol. 220; p. 435.
- Switchboard cord-circuit, Magneto. O. M. Leich. No. 1,165,336; Dec. 21; Gaz. vol. 221; p. 993.
- Switching apparatus, Test-guard for automatic. J. N. Reynolds. No. 1,124,060; Jan. 5; Gaz. vol. 210; p. 293.
- Switching device. D. D. Gordon. No. 1,131,129; Mar. 9; Gaz. vol. 212; p. 480.
- Switching device. D. D. Gordon. No. 1,146,326; July 13; Gaz. vol. 216; p. 492.
- Switching device. B. G. Lamme and J. L. M. Yardley. No. 1,138,673; May 11; Gaz. vol. 214; p. 371.
- Switching device. O. M. Leich. No. 1,129,808; Feb. 23; Gaz. vol. 211; p. 1221.
- Switching device. E. A. McClure. No. 1,138,880; May 11; Gaz. vol. 214; p. 446.
- Switching device, Centrifugal. S. L. Armstrong. No. 1,150,010; Aug. 17; Gaz. vol. 217; p. 710.
- Switching mechanism, Automatic. J. G. Roberts. No. 1,134,230; Apr. 6; Gaz. vol. 213; p. 54.
- Switching socket or connector. G. C. Knauff. No. 1,136,681; Apr. 20; Gaz. vol. 213; p. 1002.
- Switching system, Automatic. E. H. Clark. No. 1,125,965; Jan. 26; Gaz. vol. 210; p. 1037.
- Switching system, Electromagnetic. L. L. White. No. 1,123,452; Jan. 5; Gaz. vol. 210; p. 88.
- Switching system, High-potential. C. P. Steinmetz. No. 1,157,336; Oct. 19; Gaz. vol. 219; p. 759.
- Swivel clencher-bar. A. S. Jaquith. No. 1,155,818; Oct. 5; Gaz. vol. 219; p. 173.
- Swivel-hook. N. E. Sherwood. No. 1,150,892; Aug. 24; Gaz. vol. 217; p. 1075.
- Swivel, Hydraulic. H. R. Decker. No. 1,125,977; Jan. 26; Gaz. vol. 210; p. 1092.
- Swivel, Hydraulic. M. E. Layne and S. N. Hall. No. 1,133,295; Mar. 30; Gaz. vol. 212; p. 1378.
- Swivel, Hydraulic. C. S. Wright. (Reissue.) No. 1,388; Mar. 2; Gaz. vol. 212; p. 298.
- Swivel-joint. A. J. Sanford. No. 1,147,553; July 20; Gaz. vol. 216; p. 942.
- Symbols in frames, Means for holding. M. Schiller. No. 1,135,726; Apr. 13; Gaz. vol. 213; p. 626.

Alphabetical list of inventions—Continued.

- Synchronism, Apparatus for operating two mechanisms in. G. W. Ford. No. 1,153,210; Sept. 14; Gaz. vol. 218; p. 336.
- Synchronism-indicator. E. D. Carter. No. 1,145,348; July 6; Gaz. vol. 216; p. 129.
- Synchronizer. M. L. Severy. No. 1,163,473; Dec. 7; Gaz. vol. 221; p. 258.
- Synchronizing apparatus. C. S. Andres. No. 1,140,434; May 25; Gaz. vol. 214; p. 1062.
- Synchronizing device. L. Gaumont. No. 1,163,079; Dec. 7; Gaz. vol. 221; p. 120.
- Synchronizing recorder. E. O. Schweitzer. No. 1,155,106; Sept. 28; Gaz. vol. 218; p. 1058.
- Synchronizing system. B. P. Rowe. No. 1,138,689; May 11; Gaz. vol. 214; p. 376.
- Synchronous rectifier. C. H. Kicklighter. No. 1,123,307; Jan. 5; Gaz. vol. 210; p. 36.
- Syringe. H. L. Calhoun. No. 1,123,990; Jan. 5; Gaz. vol. 210; p. 268.
- Syringe. A. C. Dayton. No. 1,136,109; Apr. 20; Gaz. vol. 213; p. 798.
- Syringe. U. C. Deike. No. 1,127,201; Feb. 2; Gaz. vol. 211; p. 189.
- Syringe. F. S. Dickinson. No. 1,130,493; Mar. 2; Gaz. vol. 212; p. 229.
- Syringe. F. S. Dickinson. No. 1,142,682; June 8; Gaz. vol. 215; p. 595.
- Syringe. A. L. King. No. 1,127,898; Feb. 9; Gaz. vol. 211; p. 475.
- Syringe. P. J. McElroy. No. 1,165,686; Dec. 28; Gaz. vol. 221; p. 1157.
- Syringe. W. D. Stratton. No. 1,137,242; Apr. 27; Gaz. vol. 213; p. 1242.
- Syringe. R. B. Thurman. No. 1,164,430; Dec. 14; Gaz. vol. 221; p. 638.
- Syringe, Antitoxin-. R. Slee. No. 1,155,012; Sept. 28; Gaz. vol. 218; p. 1024.
- Syringe attachment. C. L. Loffler. No. 1,147,179; July 20; Gaz. vol. 216; p. 811.
- Syringe, Fountain-. G. W. Brown. No. 1,161,836; Nov. 30; Gaz. vol. 220; p. 1383.
- Syringe, Fountain-. L. E. Pease. No. 1,123,361; Jan. 5; Gaz. vol. 210; p. 57.
- Syringe, Hypodermic. M. Benmosche and R. P. Elliott. No. 1,144,343; June 29; Gaz. vol. 215; p. 1269.
- Syringe, Hypodermic. G. H. Kispert. No. 1,157,552; Oct. 19; Gaz. vol. 219; p. 833.
- Syringe, Hypodermic. G. R. Schimmel. No. 1,125,887; Jan. 19; Gaz. vol. 210; p. 1026.
- Syringe, Hypodermic. O. H. Sheppard. No. 1,157,429; Oct. 19; Gaz. vol. 219; p. 793.
- Syringe, Hypodermic. J. H. Wedig. No. 1,154,677; Sept. 28; Gaz. vol. 218; p. 913.
- Syringe, Intradermic. W. H. Furness. No. 1,157,524; Oct. 19; Gaz. vol. 219; p. 825.
- Syringe, Rectal. C. A. Tyrrell. No. 1,155,848; Oct. 5; Gaz. vol. 219; p. 183.
- Syringe, Urethritic. G. J. Duggan. No. 1,166,338; Dec. 28; Gaz. vol. 221; p. 1389.
- Syringes, Detachable fitting for. A. E. Dupell. No. 1,145,758; July 6; Gaz. vol. 216; p. 274.
- Syringes or the like, Cap for fountain-. H. P. Kraft and M. C. Schweinert. No. 1,146,430; July 13; Gaz. vol. 216; p. 529.
- Syrup from cider and other fruit-juices, Making. H. C. Gore. No. 1,141,458; June 1; Gaz. vol. 215; p. 133.
- Syrup from sugar-beets, Making. H. C. Gore and C. O. Townsend. No. 1,155,806; Oct. 5; Gaz. vol. 219; p. 168.
- Syruper. A. R. Thompson. No. 1,147,345; July 20; Gaz. vol. 216; p. 868.
- Syruper. A. R. Thompson. No. 1,147,346; July 20; Gaz. vol. 216; p. 869.
- Syruping-machine. A. Cerruti. No. 1,154,374; Sept. 21; Gaz. vol. 218; p. 780.
- Tab-stock. J. C. Hub and F. M. Case. No. 1,164,721; Dec. 21; Gaz. vol. 221; p. 780.
- Table: See—
- Balancing-table.
 - Bed-table.
 - Billiard-table.
 - Brick-cut-off table.
 - Camp-table.
 - Card-table.
 - Chiropractic table.
 - Collapsible table.
 - Concentrating table.
 - Convertible table.
 - Cut-off stop table.
 - Diagnostic and treating table.
 - Dining-table.
 - Etcher's cleaning-table.
 - Exposing-table.
 - Extensible table.
 - Extension-table.
 - Extension dining-table.
 - Folding table.
 - Game-table.
 - Garment-pressing table.
 - Imposing-table.
 - Instrument-table.
 - Ironing-table.
 - Laboratory-table.
 - Limb-setting table.
 - Make-up table.
 - Manicurist's table.
 - Mangle-table.
 - Marine table.
 - Metal table.
 - Operating-table.
 - Orthopedic table.
 - Paper-hanger's table.
 - Pedestal-table.
 - Physician's treating-table.
 - Portable and collapsible table.
 - Power-table.
 - Printing-press piling-table.
 - Revolving table.
 - Revolving dining-room table.
 - Self-leveling table.
 - Self-serving table.
- Table—Continued.
- Self-waiting table.
 - Sewing-machine drop-table.
 - Shear-table.
 - Ship-table.
 - Ship's table.
 - Shirt-folding table.
 - Starch-table.
 - Turn-table.
 - Vehicle turn-table.
 - Work-table.
 - Writing-table.
- Table. P. L. Billingsley. No. 1,148,070; July 27; Gaz. vol. 216; p. 1151.
- Table. F. Carrell and W. W. Moreau. No. 1,163,506; Dec. 7; Gaz. vol. 221; p. 270.
- Table. L. C. Davila. No. 1,152,304; Aug. 31; Gaz. vol. 217; p. 1605.
- Table. M. Flather. No. 1,159,001; Nov. 2; Gaz. vol. 220; p. 205.
- Table. J. Harrison. No. 1,148,379; July 27; Gaz. vol. 216; p. 1262.
- Table. W. C. Johnson. No. 1,143,279; June 15; Gaz. vol. 215; p. 846.
- Table. U. J. Klux. No. 1,140,379; May 25; Gaz. vol. 214; p. 1042.
- Table. H. Klug. No. 1,126,785; Feb. 2; Gaz. vol. 211; p. 43.
- Table. K. Möller. No. 1,126,250; Jan. 26; Gaz. vol. 210; p. 1193.
- Table. E. Richardson. No. 1,161,975; Nov. 30; Gaz. vol. 220; p. 1433.
- Table. G. Steingruber. No. 1,149,964; Aug. 10; Gaz. vol. 217; p. 632.
- Table. G. S. Tillotson. No. 1,165,144; Dec. 21; Gaz. vol. 221; p. 930.
- Table. C. D. Warlick. No. 1,158,601; Nov. 2; Gaz. vol. 220; p. 68.
- Table adjunct, Operating-. N. P. Metaxas. No. 1,148,930; Aug. 3; Gaz. vol. 217; p. 176.
- Table and box, Combined. J. C. Miles. No. 1,128,811; Feb. 16; Gaz. vol. 211; p. 839.
- Table and chair, Combined. G. Falco. No. 1,165,018; Dec. 21; Gaz. vol. 221; p. 884.
- Table and clothes-drier, Combined. H. C. Vogel. No. 1,135,637; Apr. 13; Gaz. vol. 213; p. 594.
- Table and desk, Combination. J. H. Miller and L. Raab. No. 1,157,634; Oct. 19; Gaz. vol. 219; p. 859.
- Table and desk, Convertible. W. F. Weidenbaum. No. 1,163,291; Dec. 7; Gaz. vol. 221; p. 194.
- Table and ironing-board, Combined. H. Abrashin. No. 1,151,505; Aug. 24; Gaz. vol. 217; p. 1284.
- Table and ironing-board, Combined. L. Baron. No. 1,160,126; Nov. 16; Gaz. vol. 220; p. 690.
- Table and ironing-board, Combined. E. C. Prescott. No. 1,131,267; Mar. 9; Gaz. vol. 212; p. 529.
- Table and ironing-board, Combined. E. C. Prescott. No. 1,131,954; Mar. 16; Gaz. vol. 212; p. 805.
- Table and like article. W. A. Dunlap. No. 1,162,147; Nov. 30; Gaz. vol. 220; p. 1493.
- Table and like article. W. A. Dunlap. No. 1,162,148; Nov. 30; Gaz. vol. 220; p. 1494.
- Table and truck, Convertible. W. A. Tyrrell. No. 1,144,622; June 29; Gaz. vol. 215; p. 1362.
- Table and writing-desk, Combined. J. H. Miller and L. Raab. No. 1,157,633; Oct. 19; Gaz. vol. 219; p. 859.
- Table attachment for beds. F. Gottesman. No. 1,137,753; May 4; Gaz. vol. 214; p. 11.
- Table-bed, &c. P. E. Kroehler. No. 1,158,240; Oct. 26; Gaz. vol. 219; p. 1137.
- Table-cover. S. M. Hoffberg. No. 1,142,571; June 8; Gaz. vol. 215; p. 559.
- Table-decoration. B. J. Mapes. No. 1,125,855; Jan. 19; Gaz. vol. 210; p. 1015.
- Table-display stilt. E. T. and J. A. Grunwald. No. 1,134,331; Apr. 6; Gaz. vol. 213; p. 91.
- Table-elevating mechanism. E. Cheshire. No. 1,145,404; July 6; Gaz. vol. 216; p. 149.
- Table for mail and the like. J. T. Cowley. No. 1,154,562; Sept. 21; Gaz. vol. 218; p. 842.
- Table guard or fiddle, Ship's-. N. F. Ramsay. No. 1,138,974; May 11; Gaz. vol. 214; p. 478.
- Table lock and opener, Combined. G. T. Buddle. No. 1,156,460; Oct. 12; Gaz. vol. 219; p. 421.
- Table lock and opener, Combined. G. T. Buddle. No. 1,156,461; Oct. 12; Gaz. vol. 219; p. 421.
- Table lock, Extension-. C. S. Burton. No. 1,130,141; Mar. 2; Gaz. vol. 212; p. 104.
- Table-locking device, Extension-. G. Steingruber. No. 1,145,710; July 6; Gaz. vol. 216; p. 258.
- Table-mat. S. B. Doernbach and J. H. Taylor. No. 1,127,205; Feb. 2; Gaz. vol. 211; p. 191.
- Table-mat. E. A. Lahière. No. 1,142,330; June 8; Gaz. vol. 215; p. 473.
- Table mat, pad, &c. L. Rodenhausen. No. 1,123,383; Jan. 5; Gaz. vol. 210; p. 64.
- Table-pad. C. C. Lydon. No. 1,143,842; June 22; Gaz. vol. 215; p. 1064.
- Table-pad. C. C. Lydon. No. 1,154,036; Sept. 21; Gaz. vol. 218; p. 663.
- Table-rack. W. R. Sampson. No. 1,151,291; Aug. 24; Gaz. vol. 217; p. 1211.
- Table-service apparatus. A. L. Bowen. No. 1,155,638; Oct. 5; Gaz. vol. 219; p. 109.
- Table-slide. G. C. Breon. No. 1,123,673; Jan. 5; Gaz. vol. 210; p. 163.

Alphabetical list of inventions—Continued.

- Table slide, Extension-. J. Ingells. No. 1,130,167; Mar. 2; Gaz. vol. 212; p. 113.
- Table slide, Extension-. E. W. Schultz. No. 1,165,718; Dec. 28; Gaz. vol. 221; p. 1168.
- Table-support. A. E. Robinson. No. 1,125,401; Jan. 19; Gaz. vol. 210; p. 857.
- Tables and other accessories, Supporting member for. E. Kaufmann and R. J. Holt. No. 1,152,103; Aug. 31; Gaz. vol. 217; p. 1537.
- Tables. Chair attachment for. J. Markowicz. No. 1,156,538; Oct. 12; Gaz. vol. 219; p. 447.
- Tables, desks, and the like, Flexible cover for drafting. E. Grand, Jr. No. 1,143,901; June 22; Gaz. vol. 215; p. 1084.
- Tables, Leaf-folding mechanism for. A. and L. Renzetti. No. 1,151,394; Aug. 24; Gaz. vol. 217; p. 1245.
- Tablet-holder, &c. G. F. Greening. No. 1,160,161; Nov. 16; Gaz. vol. 220; p. 702.
- Tablet or the like. E. M. Africa and B. E. McSheehy. No. 1,139,394; May 11; Gaz. vol. 214; p. 625.
- Tablet, Poison-. M. E. Bloom. No. 1,156,584; Oct. 12; Gaz. vol. 219; p. 464.
- Tablet, Self-reserving. H. F. Chism. No. 1,155,886; Oct. 5; Gaz. vol. 219; p. 195.
- Taboret. R. A. Sale. No. 1,124,662; Jan. 12; Gaz. vol. 210; p. 558.
- Tabulating, back-spacing, key-connecting, and color-selecting mechanism. E. Parmly, Jr. No. 1,143,223; June 15; Gaz. vol. 215; p. 827.
- Tabulating mechanism. H. Landsiedel. No. 1,128,092; Feb. 16; Gaz. vol. 211; p. 904.
- Tachometer. A. Allemann. No. 1,135,486; Apr. 13; Gaz. vol. 213; p. 540.
- Tachometer. T. T. Gaff. No. 1,134,951; Apr. 6; Gaz. vol. 213; p. 309.
- Tachometer. W. H. Hungerford. No. 1,124,447; Jan. 12; Gaz. vol. 210; p. 479.
- Tachometer. P. V. Kolf and J. E. Hollyday. No. 1,148,602; Aug. 3; Gaz. vol. 217; p. 70.
- Tack. L. R. Carley. No. 1,149,183; Aug. 10; Gaz. vol. 217; p. 349.
- Tack-driver. V. Gooding. No. 1,164,086; Dec. 14; Gaz. vol. 221; p. 519.
- Tack-driver. C. Willers. No. 1,127,838; Feb. 9; Gaz. vol. 211; p. 453.
- Tack-lifter, Safety. D. H. Coles. No. 1,130,147; Mar. 2; Gaz. vol. 212; p. 106.
- Tack-puller. E. Wiseman. No. 1,141,741; June 1; Gaz. vol. 215; p. 231.
- Tack-puller. E. Wiseman. No. 1,141,742; June 1; Gaz. vol. 215; p. 231.
- Tack-puller, Combination. W. G. Bunten. No. 1,142,664; June 8; Gaz. vol. 215; p. 589.
- Tack-pulling machine. J. B. Hadaway. No. 1,137,608; Apr. 27; Gaz. vol. 213; p. 1369.
- Tack-pulling machine. H. Lyon. No. 1,162,245; Nov. 30; Gaz. vol. 220; p. 1527.
- Tack-pulling machine. W. C. Stewart. No. 1,164,885; Dec. 21; Gaz. vol. 221; p. 837.
- Tack-supplying mechanism. R. F. McFeely. No. 1,159,401; Nov. 9; Gaz. vol. 220; p. 377.
- Tacks, nails, and the like, Device for feeding. B. B. Waterman. No. 1,143,561; June 15; Gaz. vol. 215; p. 943.
- Tacking and stitching machine. A. H. De Voe. No. 1,164,789; Dec. 21; Gaz. vol. 221; p. 804.
- Tacking mechanism. O. Ashton. No. 1,137,565; Apr. 27; Gaz. vol. 213; p. 1356.
- Tacking mechanism. R. F. McFeely. No. 1,129,882; Mar. 2; Gaz. vol. 212; p. 17.
- Tacking mechanism. R. F. McFeely. No. 1,135,956; Apr. 13; Gaz. vol. 213; p. 705.
- Tacking mechanism for pulling-over machines. R. F. McFeely. No. 1,135,957; Apr. 13; Gaz. vol. 213; p. 706.
- Tag. A. L. Eastman. No. 1,161,295; Nov. 23; Gaz. vol. 220; p. 1150.
- Tag. F. K. Plympton. No. 1,156,036; Oct. 5; Gaz. vol. 219; p. 247.
- Tag. F. K. Plympton. No. 1,159,329; Nov. 2; Gaz. vol. 220; p. 320.
- Tag. C. B. Tewksbury. No. 1,127,112; Feb. 2; Gaz. vol. 211; p. 159.
- Tag and the like making machine. A. L. Stevens. (Reissue.) No. 1,397,4; Aug. 31; Gaz. vol. 217; p. 1638.
- Tag-attaching device. C. F. Mosman. No. 1,159,527; Nov. 9; Gaz. vol. 220; p. 421.
- Tag. Automobile license-number. M. H. Carlson. No. 1,152,076; Aug. 31; Gaz. vol. 217; p. 1528.
- Tag bracket, License-. M. Holland. No. 1,156,685; Oct. 12; Gaz. vol. 219; p. 499.
- Tag device. D. C. Litt and J. C. Weber. No. 1,158,940; Nov. 2; Gaz. vol. 220; p. 186.
- Tag, Envelop-. M. R. Mace. No. 1,139,553; May 18; Gaz. vol. 214; p. 717.
- Tag-fastener. J. E. Fitzgerald. No. 1,158,912; Nov. 2; Gaz. vol. 220; p. 176.
- Tag-fastener. W. R. Macintosh. No. 1,156,489; Oct. 12; Gaz. vol. 219; p. 431.
- Tag fastening, Shipping-. E. L. Wilson and J. J. Reilly. No. 1,125,618; Jan. 19; Gaz. vol. 210; p. 931.
- Tag for clothing, Size-. W. J. McAuley. No. 1,142,720; June 8; Gaz. vol. 215; p. 607.
- Tag forming and affixing machine. G. F. Hullings. No. 1,127,006; Feb. 2; Gaz. vol. 211; p. 120.
- Tag, Garment-marking. M. A. Platt. No. 1,161,333; Nov. 23; Gaz. vol. 220; p. 1162.
- Tag-holder and clip, Combined. F. E. Merrill. No. 1,133,388; Mar. 30; Gaz. vol. 212; p. 1411.
- Tag holder and speed-indicator, License-. S. A. Richards, E. H. Van Emburgh, and C. Zeller. No. 1,145,614; July 6; Gaz. vol. 216; p. 222.
- Tag holder, Identification-. J. McGinty. No. 1,153,094; Sept. 7; Gaz. vol. 218; p. 258.
- Tag, Identification-. J. Gauvreau. No. 1,151,940; Aug. 31; Gaz. vol. 217; p. 1479.
- Tag, Index-. C. B. Ulrich. No. 1,157,195; Oct. 19; Gaz. vol. 219; p. 708.
- Tag, Key-. C. E. Burnap. No. 1,156,345; Oct. 12; Gaz. vol. 219; p. 378.
- Tag-machine. E. Craig. No. 1,125,969; Jan. 26; Gaz. vol. 210; p. 1089.
- Tag machine, Laundry-. E. Craig. No. 1,155,469; Oct. 5; Gaz. vol. 219; p. 51.
- Tag, Marking-. L. N. Bishop. No. 1,160,035; Nov. 9; Gaz. vol. 220; p. 603.
- Tag, Marking-. C. A. Fassen. No. 1,166,119; Dec. 28; Gaz. vol. 221; p. 1308.
- Tag, Price-. F. Kohnle. No. 1,130,614; Mar. 2; Gaz. vol. 212; p. 271.
- Tag-securing means. W. L. Waterall. No. 1,160,347; Nov. 16; Gaz. vol. 220; p. 766.
- Tag, Shipping-. E. B. Atkinson. No. 1,142,294; June 8; Gaz. vol. 215; p. 461.
- Tag, Shipping-. T. I. Hart. No. 1,155,566; Oct. 5; Gaz. vol. 219; p. 84.
- Tag support, License-. C. D. De Vore. No. 1,154,847; Sept. 28; Gaz. vol. 218; p. 968.
- Tail-light. O. A. Erdmann. No. 1,142,558; June 8; Gaz. vol. 215; p. 555.
- Tailor's grading system and device therefor. W. Semonof. No. 1,144,071; June 22; Gaz. vol. 215; p. 1144.
- Take-up for flexible connections. C. E. Baker and E. M. De Long. No. 1,126,176; Jan. 26; Gaz. vol. 210; p. 1166.
- Take-up mechanism. R. E. Pierce and E. A. Reed. No. 1,158,840; Nov. 2; Gaz. vol. 220; p. 152.
- Take-up, Rotary. G. B. Osterhout. No. 1,134,482; Apr. 6; Gaz. vol. 213; p. 146.
- Talking-board. W. Fuld. No. 1,125,833; Jan. 19; Gaz. vol. 210; p. 1008.
- Talking-machine. W. H. Camfield. No. 1,138,843; May 11; Gaz. vol. 214; p. 434.
- Talking-machine. P. Catucci. No. 1,137,001; Apr. 27; Gaz. vol. 213; p. 1154.
- Talking-machine. W. N. Dennison. No. 1,150,347; Aug. 17; Gaz. vol. 217; p. 830.
- Talking-machine. W. N. Dennison. No. 1,152,401; Sept. 7; Gaz. vol. 218; p. 7.
- Talking-machine. W. N. Dennison. No. 1,165,396; Dec. 28; Gaz. vol. 221; p. 1054.
- Talking-machine. F. J. Empson. No. 1,158,401; Oct. 26; Gaz. vol. 219; p. 1194.
- Talking-machine. T. Isaac. No. 1,160,998; Nov. 16; Gaz. vol. 220; p. 998.
- Talking-machine. E. R. Johnson and W. N. Dennison. No. 1,146,260; July 13; Gaz. vol. 216; p. 470.
- Talking-machine. E. R. Johnson and J. C. English. No. 1,165,414; Dec. 28; Gaz. vol. 221; p. 1062.
- Talking-machine. T. Metzeler. No. 1,137,883; May 4; Gaz. vol. 214; p. 56.
- Talking-machine. W. H. Miller. No. 1,130,099; Mar. 2; Gaz. vol. 212; p. 89.
- Talking-machine. W. H. Pumphrey. No. 1,139,224; May 11; Gaz. vol. 214; p. 566.
- Talking-machine. P. Weber. No. 1,133,685; Mar. 30; Gaz. vol. 212; p. 1519.
- Talking-machine. A. H. Welker. No. 1,123,446; Jan. 5; Gaz. vol. 210; p. 85.
- Talking-machine. C. E. Woods. (Reissue.) No. 14,035; Dec. 21; Gaz. vol. 221; p. 1009.
- Talking-machine adapter. P. Catucci. No. 1,156,120; Oct. 12; Gaz. vol. 219; p. 306.
- Talking-machine attachment. E. S. Antisdale. No. 1,149,804; Aug. 10; Gaz. vol. 217; p. 574.
- Talking-machine attachment. C. I. Lamb. No. 1,130,910; Mar. 9; Gaz. vol. 212; p. 407.
- Talking-machine attachment. C. S. McNally. No. 1,128,021; Feb. 9; Gaz. vol. 211; p. 517.
- Talking-machine, Automatic. J. Gabel. No. 1,134,603; Apr. 6; Gaz. vol. 213; p. 189.
- Talking-machine brake mechanism. C. Harrison. No. 1,148,512; Aug. 3; Gaz. vol. 217; p. 10.
- Talking-machine, Commercial. A. A. Zalss. No. 1,139,947; May 18; Gaz. vol. 214; p. 856.
- Talking-machine mandrel. P. Catucci. No. 1,162,034; Nov. 30; Gaz. vol. 220; p. 1453.
- Talking-machine needle and making the same. L. K. Scottford. No. 1,163,567; Dec. 7; Gaz. vol. 221; p. 291.
- Talking-machine record-cleaning attachment. J. W. Pitcher. No. 1,157,958; Oct. 26; Gaz. vol. 219; p. 1038.
- Talking-machine record-support. L. K. Scottford. No. 1,163,566; Dec. 7; Gaz. vol. 221; p. 290.
- Talking-machine record-tablet. O. O. Brophy. No. 1,126,377; Jan. 26; Gaz. vol. 210; p. 1237.

Alphabetical list of inventions—Continued.

- Talking-machine sound-box. A. D. Jones. No. 1,142,883; June 15; Gaz. vol. 215; p. 706.
- Talking-machine sound-box. E. H. Mobley. No. 1,145,499; July 6; Gaz. vol. 216; p. 183.
- Talking-machine sound-box. M. A. Possons. No. 1,166,254; Dec. 28; Gaz. vol. 221; p. 1360.
- Talking-machine sound-box. H. Sheble. No. 1,158,316; Oct. 26; Gaz. vol. 219; p. 1164.
- Talking-machine sound-box. C. E. Woods. No. 1,145,535; July 6; Gaz. vol. 216; p. 196.
- Talking-machine spring-motor. P. Catucci. No. 1,162,033; Nov. 30; Gaz. vol. 220; p. 1452.
- Talking-machine stop. T. W. Kirkman. No. 1,165,679; Dec. 28; Gaz. vol. 221; p. 1155.
- Talking-machine stopping device. C. C. James. No. 1,139,421; May 11; Gaz. vol. 214; p. 635.
- Talking-machine tone-arm connection. W. H. Hoschke. No. 1,155,064; Sept. 28; Gaz. vol. 218; p. 1043.
- Talking-machine with repeat attachment. D. M. Winans. No. 1,165,927; Dec. 28; Gaz. vol. 221; p. 1239.
- Talking-machines, Automatic stop for. R. O. May. No. 1,128,171; Feb. 9; Gaz. vol. 211; p. 569.
- Talking-machines, Calibrating device for speed-indicators for. C. E. Woods. No. 1,127,569; Feb. 9; Gaz. vol. 211; p. 356.
- Talking-machines, Correction device for. C. E. Woods. No. 1,153,665; Sept. 14; Gaz. vol. 218; p. 498.
- Talking-machines, Holder for the stylus-needles of. J. W. Hughes. No. 1,143,276; June 15; Gaz. vol. 215; p. 844.
- Talking-machines, Motor-rewinding device for. J. H. Clemmency. No. 1,152,297; Aug. 31; Gaz. vol. 217; p. 1603.
- Talking-machines, Repeating device for. F. S. Leisenring. No. 1,143,289; June 15; Gaz. vol. 215; p. 849.
- Talking-machines, Speaker connection for. F. C. Kent and C. W. Lindholm. No. 1,130,298; Mar. 2; Gaz. vol. 212; p. 158.
- Talking-machines, Stop for tone-arms of. G. Busch. No. 1,141,037; May 25; Gaz. vol. 214; p. 1272.
- Talking-machines, Tablet-support for. P. Catucci. No. 1,128,756; Feb. 16; Gaz. vol. 211; p. 819.
- Talking-machines, Universal tone-arm for. P. Catucci. No. 1,147,143; July 20; Gaz. vol. 216; p. 798.
- Tally device. T. I. Freeburn. No. 1,154,854; Sept. 28; Gaz. vol. 218; p. 970.
- Tambour-frame-counterbalancing mechanism. R. Zahn. No. 1,124,572; Jan. 12; Gaz. vol. 210; p. 524.
- Tamping attachment. J. Jacobson. No. 1,158,224; Oct. 26; Gaz. vol. 219; p. 1131.
- Tamping device. C. Tietig. No. 1,131,876; Mar. 16; Gaz. vol. 212; p. 777.
- Tamping-machine. A. J. Powers. No. 1,129,230; Feb. 23; Gaz. vol. 211; p. 1022.
- Tanbark, Preparing and packing. W. S. Shaw. No. 1,146,963; July 20; Gaz. vol. 216; p. 736.
- Tandem seat for bicycles or motor-cycles. E. F. Pawsat. No. 1,164,207; Dec. 14; Gaz. vol. 221; p. 559.
- Tandem seat for motor-cycles or the like. E. F. Pawsat. No. 1,158,551; Nov. 2; Gaz. vol. 220; p. 51.
- Tank. See—
- | | |
|-----------------------|---|
| Acid-tank. | Oil-delivery tank. |
| Automobile fuel-tank. | Portable tank. |
| Developing-tank. | Precipitation-tank. |
| Drying-tank. | Septic tank. |
| Expansion-tank. | Settling-tank. |
| Feed-water tank. | Sewer-tank. |
| Flush-tank. | Sheet-metal tank. |
| Flushing-tank. | Stock-tank. |
| Fuel-tank. | Waste-soaking tank. |
| Gas-tank. | Water-tank. |
| Jacketed tank. | Water-closet tank. |
| Liquid-fuel tank. | Watering-tank. |
| Measuring-tank. | Watering and water heating and supply tank. |
| Non-explosive tank. | |
| Oil-tank. | |
- Tank. E. M. Caskey. No. 1,157,675; Oct. 26; Gaz. vol. 219; p. 939.
- Tank. E. B. Kuhn. No. 1,157,643; Oct. 19; Gaz. vol. 219; p. 862.
- Tank. M. Rasmussen. No. 1,131,271; Mar. 9; Gaz. vol. 212; p. 530.
- Tank. F. T. Sloan. No. 1,130,936; Mar. 9; Gaz. vol. 212; p. 415.
- Tank and gage therefor. W. R. Jeavons. No. 1,150,122; Aug. 17; Gaz. vol. 217; p. 749.
- Tank and washing-drum. J. Kearns. No. 1,160,512; Nov. 16; Gaz. vol. 220; p. 823.
- Tank-brace. R. Piaggio. No. 1,123,366; Jan. 5; Gaz. vol. 210; p. 59.
- Tank construction. J. W. Gamble. No. 1,127,226; Feb. 2; Gaz. vol. 211; p. 198.
- Tank construction. W. Griesser. No. 1,133,278; Mar. 30; Gaz. vol. 212; p. 1372.
- Tank cut-off mechanism. W. P. Norris. No. 1,151,900; Aug. 31; Gaz. vol. 217; p. 1467.
- Tank discharge-gate. E. H. Moyle. No. 1,126,063; Jan. 26; Gaz. vol. 210; p. 1124.
- Tank-discharging means. Glass. J. Rau. No. 1,151,393; Aug. 24; Gaz. vol. 217; p. 1244.
- Tank-filler. H. E. Coffin. No. 1,147,785; July 27; Gaz. vol. 216; p. 1049.
- Tank-filler. R. W. E. Hayes. No. 1,157,692; Oct. 26; Gaz. vol. 219; p. 946.
- Tank-filling device. E. J. Kelley. No. 1,153,116; Sept. 7; Gaz. vol. 218; p. 265.
- Tank gage, Liquid-containing. P. E. Tanner. No. 1,129,837; Feb. 23; Gaz. vol. 211; p. 1231.
- Tank-heater. R. C. Sermon. No. 1,127,926; Feb. 9; Gaz. vol. 211; p. 484.
- Tank-heater. T. Shaver. No. 1,154,065; Sept. 21; Gaz. vol. 218; p. 673.
- Tank-heater. J. Trisler. No. 1,152,671; Sept. 7; Gaz. vol. 218; p. 108.
- Tank heater, Water-. C. S. Huber. No. 1,143,196; June 15; Gaz. vol. 215; p. 817.
- Tank-indicator. F. W. Johnstone. No. 1,153,553; Sept. 14; Gaz. vol. 218; p. 461.
- Tank-lining. T. E. Murray. No. 1,156,425; Oct. 12; Gaz. vol. 219; p. 408.
- Tank-lock, Safety. J. Lees. No. 1,143,546; June 15; Gaz. vol. 215; p. 937.
- Tank-mold. W. M. Venable. No. 1,125,221; Jan. 19; Gaz. vol. 210; p. 791.
- Tank-register, Automatic. C. L. Wright, M. L. Smart, C. M. Hopper, and G. W. Thompson. No. 1,142,926; June 15; Gaz. vol. 215; p. 721.
- Tank safety device. H. L. Dodge. No. 1,156,469; Oct. 12; Gaz. vol. 219; p. 424.
- Tank self-regulating apparatus. A. J. Garrow. No. 1,165,356; Dec. 21; Gaz. vol. 221; p. 1001.
- Tank sight-gage. T. J. Cole. No. 1,144,528; June 29; Gaz. vol. 215; p. 1330.
- Tank valve and strainer. J. H. Watters. No. 1,151,634; Aug. 31; Gaz. vol. 217; p. 1375.
- Tanks, &c., Apparatus for cleansing match-composition. J. C. Donnelly. No. 1,127,415; Feb. 9; Gaz. vol. 211; p. 302.
- Tanks, Attachment for flushing. B. L. Chambers. No. 1,149,896; Aug. 10; Gaz. vol. 217; p. 608.
- Tanks, Cap for storage. J. A. Trowbridge, Jr. No. 1,166,021; Dec. 28; Gaz. vol. 221; p. 1272.
- Tanks containing inflammable liquids, Device for. E. Hurlbrink. No. 1,147,729; July 27; Gaz. vol. 216; p. 1030.
- Tanks, Forming sheet-metal. O. J. Groehn. No. 1,160,880; Nov. 16; Gaz. vol. 220; p. 955.
- Tanks, Fuel-reserve attachment for supply-. W. M. Hogle. No. 1,135,018; Apr. 13; Gaz. vol. 213; p. 379.
- Tanks, Indicating and registering mechanism for. A. M. Wolf. No. 1,136,576; Apr. 20; Gaz. vol. 213; p. 967.
- Tanks, Indicator-operating device for gasoline-. C. Eberhart, Jr. No. 1,133,013; Mar. 23; Gaz. vol. 212; p. 1242.
- Tanks, Safety-vent for crude-oil-storage. W. M. Bowles. No. 1,162,019; Nov. 30; Gaz. vol. 220; p. 1448.
- Tanning. W. S. Shaw. No. 1,149,298; Aug. 10; Gaz. vol. 217; p. 392.
- Tanning agents, Producing soluble. E. Dehnelt. No. 1,133,108; Mar. 23; Gaz. vol. 212; p. 1275.
- Tanning compositions from waste sulfite-cellulose liquor, Producing. J. J. Gross. No. 1,154,762; Sept. 28; Gaz. vol. 218; p. 940.
- Tanning-drum. B. Allen, Jr. No. 1,155,866; Oct. 5; Gaz. vol. 219; p. 189.
- Tanning extracts, Apparatus for dissolving and treating vegetable. E. Schaub. No. 1,158,304; Oct. 26; Gaz. vol. 219; p. 1160.
- Tanning hides and skins, Composition for. M. B. Larson. No. 1,147,178; July 20; Gaz. vol. 216; p. 811.
- Tanning material and preparing the same. H. H. Hurt. No. 1,147,245; July 20; Gaz. vol. 216; p. 835.
- Tap. E. L. Libero. No. 1,151,697; Aug. 31; Gaz. vol. 217; p. 1395.
- Tap and bushing. Beer-. F. E. Rice. No. 1,141,269; June 1; Gaz. vol. 215; p. 63.
- Tap and die holder, Safety. G. T. Tyson. No. 1,126,919; Feb. 2; Gaz. vol. 211; p. 89.
- Tap and reamer wrench, Safety. J. Dunner. No. 1,165,159; Dec. 21; Gaz. vol. 221; p. 934.
- Tap, Collapsible. W. B. Fetner. No. 1,160,868; Nov. 16; Gaz. vol. 220; p. 951.
- Tap-holder, Reversible. W. L. Procnier. No. 1,164,315; Dec. 14; Gaz. vol. 221; p. 598.
- Tap-holder, Self-aligning. E. W. Cleveland. No. 1,155,796; Oct. 5; Gaz. vol. 219; p. 165.
- Tap-making machine. F. Müller. No. 1,155,432; Oct. 5; Gaz. vol. 219; p. 38.
- Tap or cock. R. R. Gibbs. No. 1,153,778; Sept. 14; Gaz. vol. 218; p. 538.
- Tap-wrench. T. J. Fegley. No. 1,132,319; Mar. 16; Gaz. vol. 212; p. 940.
- Tapping and drilling apparatus, Pneumatically-controlled multiple-spindle. R. W. Phillips. No. 1,124,167; Jan. 5; Gaz. vol. 210; p. 330.
- Tapping apparatus. R. Bettermann. No. 1,154,603; Sept. 28; Gaz. vol. 218; p. 885.
- Tapping-machine. J. E. Johnson. No. 1,153,310; Sept. 14; Gaz. vol. 218; p. 371.
- Tape. D. Marinsky. No. 1,160,925; Nov. 16; Gaz. vol. 220; p. 971.
- Tape and thread holder, Combined. A. Masler. No. 1,135,125; Apr. 13; Gaz. vol. 213; p. 416.

Alphabetical list of inventions—Continued.

- Tape-clamp.** E. M. Hewitt. No. 1,140,820; May 25; Gaz. vol. 214; p. 1196.
- Tape for wrapping purposes, Device for supporting and delivering.** F. W. Ostrom. No. 1,166,074; Dec. 28; Gaz. vol. 221; p. 1290.
- Tape machine, Gummed.** C. Senné. No. 1,126,578; Jan. 26; Gaz. vol. 210; p. 1312.
- Tape-measure.** F. F. Forshee. No. 1,134,523; Apr. 6; Gaz. vol. 213; p. 161.
- Tape-package.** T. S. Hall. No. 1,135,110; Apr. 13; Gaz. vol. 213; p. 411.
- Tape, Proportional divider.** H. J. Fritz. No. 1,148,306; July 27; Gaz. vol. 216; p. 1235.
- Tape-reel.** A. Bernardini and W. L. E. Keuffel. No. 1,144,993; July 6; Gaz. vol. 216; p. 5.
- Tape, string, and the like, Apparatus for producing.** R. E. Eggleston. No. 1,132,837; Mar. 23; Gaz. vol. 212; p. 1178.
- Tape-wound cones and the like, Holder for.** R. S. Sharp. No. 1,154,443; Sept. 21; Gaz. vol. 218; p. 802.
- Taping-machine.** E. W. Labombarde. No. 1,161,228; Nov. 23; Gaz. vol. 220; p. 1125.
- Tappet-clamping device.** W. S. M. White. No. 1,123,635; Jan. 5; Gaz. vol. 210; p. 150.
- Tappet-gearing device.** J. E. Reaves and C. M. Bandy. No. 1,124,661; Jan. 12; Gaz. vol. 210; p. 557.
- Tar-extractor.** F. Tschudy. No. 1,155,387; Oct. 5; Gaz. vol. 219; p. 22.
- Tar colloid having curative properties, Manufacture of a light-colored.** I. Bugarszky. No. 1,160,992; Nov. 16; Gaz. vol. 220; p. 996.
- Tar macadam, Plant for making.** N. Taylor. No. 1,138,906; May 11; Gaz. vol. 214; p. 454.
- Tar-spreader.** F. B. Rees. No. 1,147,546; July 20; Gaz. vol. 216; p. 940.
- Target.** E. B. Badcock. No. 1,165,487; Dec. 28; Gaz. vol. 221; p. 1086.
- Target.** J. V. Graybill. No. 1,125,306; Jan. 19; Gaz. vol. 210; p. 821.
- Target.** A. F. Hebard. No. 1,145,585; July 6; Gaz. vol. 216; p. 212.
- Target.** J. Vertunni. No. 1,161,171; Nov. 23; Gaz. vol. 220; p. 1104.
- Target and interlock operating switch-stand, Combined.** F. C. Anderson. No. 1,141,905; June 1; Gaz. vol. 215; p. 287.
- Target, Base-ball-pitcher's.** J. N. Lawrence. No. 1,142,184; June 8; Gaz. vol. 215; p. 423.
- Target-carrier.** W. N. Pickett. No. 1,160,753; Nov. 16; Gaz. vol. 220; p. 912.
- Target placing and shifting apparatus.** W. I. Thompson. No. 1,157,342; Oct. 19; Gaz. vol. 219; p. 761.
- Target plotting-board.** R. J. Gill and J. Schoenfeld. No. 1,165,330; Dec. 21; Gaz. vol. 221; p. 991.
- Target-practice apparatus.** J. M. Clark, 3d. No. 1,125,475; Jan. 19; Gaz. vol. 210; p. 881.
- Target, Rifle.** W. Sommerfeld. No. 1,162,814; Dec. 7; Gaz. vol. 221; p. 29.
- Target, Self-scoring.** M. S. Ellis. No. 1,131,549; Mar. 9; Gaz. vol. 212; p. 626.
- Target-thrower.** W. B. Darton. No. 1,164,609; Dec. 14; Gaz. vol. 221; p. 699.
- Target-trap.** J. H. Wilder. No. 1,162,118; Nov. 30; Gaz. vol. 220; p. 1484.
- Tatting-shuttle.** H. E. Hartranft. No. 1,157,535; Oct. 19; Gaz. vol. 219; p. 829.
- Tawing and tanning.** L. E. Levi. No. 1,135,977; Apr. 13; Gaz. vol. 213; p. 713.
- Taxicab-indicator.** H. P. Allin. No. 1,142,390; June 8; Gaz. vol. 215; p. 496.
- Taximeter.** H. P. C. Browne. No. 1,160,137; Nov. 16; Gaz. vol. 220; p. 693.
- Taximeter.** J. F. Ohmer and E. H. Bridenbaugh. No. 1,136,164; Apr. 20; Gaz. vol. 213; p. 818.
- Taximeter, Recording.** G. S. Maxwell. No. 1,138,680; May 11; Gaz. vol. 214; p. 373.
- Tea and coffee pot.** C. W. Winchell. No. 1,148,422; July 27; Gaz. vol. 216; p. 1276.
- Tea and coffee pot handle.** S. G. Wilkes. No. 1,162,426; Nov. 30; Gaz. vol. 220; p. 1588.
- Tea-kettle and signal, Combined.** J. Madsen. No. 1,161,713; Nov. 23; Gaz. vol. 220; p. 1294.
- Teapot.** I. Bauer. No. 1,123,467; Jan. 5; Gaz. vol. 210; p. 93.
- Teaching arithmetic, Device for.** G. Mirkov. No. 1,129,890; Mar. 2; Gaz. vol. 212; p. 20.
- Teaching numbers, Device for.** M. D. Lewis. No. 1,151,279; Aug. 24; Gaz. vol. 217; p. 1208.
- Teaching the reading of clock-dials and the distinguishing of colors, Scholastic appliance for.** J. Edmiston. No. 1,143,519; June 15; Gaz. vol. 215; p. 927.
- Teaching writing, Device for.** M. Urase. No. 1,136,450; Apr. 20; Gaz. vol. 213; p. 921.
- Teat-cup.** L. Bull. No. 1,144,346; June 29; Gaz. vol. 215; p. 1270.
- Teat-cup.** A. C. Macartney. No. 1,146,584; July 13; Gaz. vol. 216; p. 586.
- Teat-cup, Pneumatically-operated.** A. Gillies and H. Bertram. No. 1,124,886; Jan. 12; Gaz. vol. 210; p. 637.
- Teeth, Anchor for artificial.** G. E. Fritz and T. G. McMahon. No. 1,165,964; Dec. 28; Gaz. vol. 221; p. 1252.
- Teeth and making the same, Pin for securing artificial.** K. Finckh. No. 1,143,696; June 22; Gaz. vol. 215; p. 1014.
- Teeth, Attachment for the plates of artificial.** H. T. McGowan. No. 1,159,971; Nov. 9; Gaz. vol. 220; p. 583.
- Teeth, Backing for artificial.** A. J. Asch. No. 1,140,936; May 25; Gaz. vol. 214; p. 1239.
- Teeth, Filling.** G. A. Brouillet. No. 1,126,949; Feb. 2; Gaz. vol. 211; p. 99.
- Teeth, Material for cleaning.** W. A. Leonard and S. W. Boynton. No. 1,149,376; Aug. 10; Gaz. vol. 217; p. 421.
- Teeth, Metal backing for.** G. E. Fritz. No. 1,129,476; Feb. 23; Gaz. vol. 211; p. 1110.
- Teeth-regulating appliance.** D. S. Bacon. No. 1,130,242; Mar. 2; Gaz. vol. 212; p. 138.
- Telautographic apparatus.** H. W. O'Neill. No. 1,127,083; Feb. 2; Gaz. vol. 211; p. 147.
- Telautographic apparatus.** H. W. O'Neill. No. 1,128,492; Feb. 16; Gaz. vol. 211; p. 729.
- Telautographic apparatus.** H. W. O'Neill. No. 1,128,493; Feb. 16; Gaz. vol. 211; p. 729.
- Telautographic apparatus.** G. S. Tiffany. No. 1,129,317; Feb. 23; Gaz. vol. 211; p. 1053.
- Telautographic apparatus.** G. S. Tiffany. No. 1,137,929; May 4; Gaz. vol. 214; p. 72.
- Telegraph.** A. Hjort. No. 1,163,539; Dec. 7; Gaz. vol. 221; p. 280.
- Telegraph alphabet, Printing.** C. G. Ashley. No. 1,135,344; Apr. 13; Gaz. vol. 213; p. 490.
- Telegraph apparatus.** C. Henry. No. 1,130,901; Mar. 9; Gaz. vol. 212; p. 404.
- Telegraph apparatus, Electric.** J. A. Elms. No. 1,158,665; Nov. 2; Gaz. vol. 220; p. 90.
- Telegraph apparatus, Electric type-writing.** G. C. Clark. No. 1,124,704; Jan. 12; Gaz. vol. 210; p. 571.
- Telegraph apparatus, Keyboard for printing.** W. Zabel. No. 1,137,044; Apr. 27; Gaz. vol. 213; p. 1169.
- Telegraph apparatus, Printing.** C. L. Krum. No. 1,137,146; Apr. 27; Gaz. vol. 213; p. 1207.
- Telegraph apparatus, Printing.** F. D. Pearne. No. 1,146,274; July 13; Gaz. vol. 216; p. 474.
- Telegraph-circuit.** J. J. Ghegan. No. 1,152,018; Aug. 31; Gaz. vol. 217; p. 1507.
- Telegraph-circuit recording apparatus, Electromagnetic.** A. H. Annand. No. 1,150,326; Aug. 17; Gaz. vol. 217; p. 822.
- Telegraph detector, Wireless.** W. E. Ashton and A. M. Curtis. No. 1,145,658; July 6; Gaz. vol. 216; p. 239.
- Telegraph, Electrical type.** F. C. Grasmé. No. 1,128,600; Feb. 16; Gaz. vol. 211; p. 766.
- Telegraph instrument.** H. A. Emrick. No. 1,124,119; Jan. 5; Gaz. vol. 210; p. 313.
- Telegraph-key.** J. N. Bell. No. 1,127,855; Feb. 9; Gaz. vol. 211; p. 459.
- Telegraph-line repeater.** H. C. Cahill. No. 1,152,877; Sept. 7; Gaz. vol. 218; p. 183.
- Telegraph mechanism, Printing.** O. L. Kleber. No. 1,145,490; July 6; Gaz. vol. 216; p. 180.
- Telegraph or telephone relay.** C. Stille. No. 1,154,139; Sept. 21; Gaz. vol. 218; p. 698.
- Telegraph, Printing.** O. L. Kleber. No. 1,138,958; May 11; Gaz. vol. 214; p. 472.
- Telegraph, Printing.** C. J. Wiley. No. 1,146,985; July 20; Gaz. vol. 216; p. 744.
- Telegraph receiver, Printing.** C. G. Ashley. No. 1,138,830; May 11; Gaz. vol. 214; p. 428.
- Telegraph receiver, Printing.** C. G. Ashley. No. 1,161,105; Nov. 23; Gaz. vol. 220; p. 1079.
- Telegraph receiver, Printing.** A. F. Dixon. No. 1,128,422; Feb. 16; Gaz. vol. 211; p. 704.
- Telegraph receiver, Printing.** J. E. Wright. No. 1,140,861; May 25; Gaz. vol. 214; p. 1212.
- Telegraph receiving apparatus, Wireless.** S. M. Kintner and J. W. Lee. No. 1,132,588; Mar. 23; Gaz. vol. 212; p. 1085.
- Telegraph-relay, Transmitting.** T. H. Mains. No. 1,153,937; Sept. 21; Gaz. vol. 218; p. 629.
- Telegraph-repeater.** W. Finn. No. 1,160,097; Nov. 9; Gaz. vol. 220; p. 625.
- Telegraph-repeater.** W. Finn. No. 1,164,274; Dec. 14; Gaz. vol. 221; p. 582.
- Telegraph-repeater.** J. McKeon. No. 1,147,636; July 20; Gaz. vol. 216; p. 972.
- Telegraph-repeater.** F. E. Wallace. No. 1,131,447; Mar. 9; Gaz. vol. 212; p. 591.
- Telegraph sending apparatus, Printing.** F. D. Pearne. No. 1,137,894; May 4; Gaz. vol. 214; p. 59.
- Telegraph, Ship's.** F. W. Wood and H. Laning. No. 1,163,191; Dec. 7; Gaz. vol. 221; p. 161.
- Telegraph system.** W. M. Bruce, Jr. No. 1,145,229; July 6; Gaz. vol. 216; p. 89.
- Telegraph system.** W. H. Shephard and A. E. McKechnie. No. 1,156,043; Oct. 5; Gaz. vol. 219; p. 249.
- Telegraph system and alphabet, Printing.** C. G. Ashley. No. 1,141,751; June 1; Gaz. vol. 215; p. 234.
- Telegraph system and alphabet, Printing.** C. G. Ashley. No. 1,145,460; July 6; Gaz. vol. 216; p. 171.
- Telegraph system and alphabet, Printing.** C. G. Ashley and J. B. Crippen. No. 1,126,339; Jan. 26; Gaz. vol. 210; p. 1224.

Alphabetical list of inventions—Continued.

- Telegraph system, Printing- C. G. Ashley. No. 1,164,907; Dec. 21; Gaz. vol. 221; p. 845.
 Telegraph system, Rapid printing- C. G. Ashley. No. 1,130,688; Mar. 2; Gaz. vol. 212; p. 297.
 Telegraph system, Type-printing electric- W. S. Steljes. No. 1,152,059; Aug. 31; Gaz. vol. 217; p. 1522.
 Telegraph systems, Interference-preventer for use in wireless- T. B. Miller and A. H. Cox. No. 1,128,910; Jan. 5; Gaz. vol. 210; p. 243.
 Telegraph systems, Local-circuit-controlling apparatus for printing- G. S. Hiltz. No. 1,142,037; June 8; Gaz. vol. 215; p. 371.
 Telegraph systems, Mechanical sounder for- P. P. Banholzer. No. 1,163,201; Dec. 7; Gaz. vol. 221; p. 163.
 Telegraph systems, Tuning device for wireless- A. J. Coughenour. No. 1,127,738; Feb. 9; Gaz. vol. 211; p. 416.
 Telegraph-transmitter, E. H. Pielsen. No. 1,157,040; Oct. 19; Gaz. vol. 219; p. 654.
 Telegraph-transmitters, Keyboard for- C. E. Nelson. No. 1,157,714; Oct. 26; Gaz. vol. 219; p. 953.
 Telegraph transmitting instrument- G. T. Buchanan. No. 1,152,287; Aug. 31; Gaz. vol. 217; p. 1599.
 Telegraphs and the like, Transmitter for writing- A. Rappenecker. No. 1,135,393; Apr. 13; Gaz. vol. 213; p. 507.
 Telegraphs, Transmitter for electric writing- E. H. and K. A. Widgren. No. 1,154,279; Sept. 21; Gaz. vol. 218; p. 746.
 Telegraphic-communication system- C. Kinsley. No. 1,126,642; Jan. 26; Gaz. vol. 210; p. 1335.
 Telegraphic instrument- J. J. Ghegan. No. 1,140,151; May 18; Gaz. vol. 214; p. 929.
 Telegraphic-tape perforator- O. and H. Hoenack. No. 1,150,765; Aug. 17; Gaz. vol. 217; p. 973.
 Telegraphic transmission- C. Kinsley. No. 1,150,272; Aug. 17; Gaz. vol. 217; p. 804.
 Telegraphic transmission- C. Schou. No. 1,150,395; Aug. 17; Gaz. vol. 217; p. 846.
 Telegraphic type-printing receiver- A. Franke and E. Ehrhardt. No. 1,126,745; Feb. 2; Gaz. vol. 211; p. 28.
 Telegraphphone, H. L. Washburn. No. 1,155,776; Oct. 5; Gaz. vol. 219; p. 156.
 Telegraphphone, G. S. Tiffany. No. 1,142,384; June 8; Gaz. vol. 215; p. 494.
 Telegraphy, B. L. Bobroff. No. 1,144,290; June 22; Gaz. vol. 215; p. 1222.
 Telegraphy, B. L. Bobroff. No. 1,157,839; Oct. 26; Gaz. vol. 219; p. 996.
 Telegraphy, W. M. Bruce, Jr. No. 1,146,049; July 13; Gaz. vol. 216; p. 397.
 Telegraphy, W. M. Bruce, Jr. No. 1,146,234; July 13; Gaz. vol. 216; p. 471.
 Telegraphy, P. B. Delaney. No. 1,124,598; Jan. 12; Gaz. vol. 210; p. 533.
 Telegraphy, P. B. Delany. No. 1,146,752; July 13; Gaz. vol. 246; p. 642.
 Telegraphy, P. B. Delany. No. 1,149,428; Aug. 10; Gaz. vol. 217; p. 439.
 Telegraphy, P. B. Delany. No. 1,161,929; Nov. 30; Gaz. vol. 220; p. 1417.
 Telegraphy, L. M. Potts. No. 1,135,614; Apr. 13; Gaz. vol. 213; p. 586.
 Telegraphy and telephony receiver, Radio- G. W. Pickard. No. 1,144,969; June 29; Gaz. vol. 215; p. 1482.
 Telegraphy and telephony, Transmitting apparatus for use in wireless- G. Marconi. No. 1,136,477; Apr. 20; Gaz. vol. 213; p. 931.
 Telephone attachment, D. Y. Donaldson. No. 1,163,326; Dec. 7; Gaz. vol. 221; p. 207.
 Telephony, Automatic- P. B. Delany. No. 1,141,868; June 1; Gaz. vol. 215; p. 271.
 Telephony, Detector for wireless- C. O. Lorenz. No. 1,159,969; Nov. 9; Gaz. vol. 220; p. 582.
 Telephony, Method of and apparatus for selective wireless- F. G. Sargent. (Reissue.) No. 14,012; Nov. 16; Gaz. vol. 220; p. 1006.
 Telephony, Radio- E. Raymond-Barker. No. 1,139,226; May 11; Gaz. vol. 214; p. 567.
 Telephony, Receiver for wireless- R. B. Avery. No. 1,143,799; June 22; Gaz. vol. 215; p. 1049.
 Telephony, Selenium cell especially adapted for use in connection with- K. C. Cox. No. 1,156,524; Oct. 12; Gaz. vol. 219; p. 443.
 Telephony, Submarine- K. C. Cox. No. 1,158,375; Oct. 26; Gaz. vol. 219; p. 1185.
 Telephony, Synchronous- E. W. Larsen. No. 1,146,581; July 13; Gaz. vol. 216; p. 584.
 Telephony, Transmitter for wireless- G. Marconi. No. 1,148,621; Aug. 3; Gaz. vol. 217; p. 13.
 Telephony, Transmitter for wireless- C. Schou. No. 1,158,309; Oct. 26; Gaz. vol. 219; p. 1162.
 Telephony, Transmitting apparatus for wireless- A. H. Johnson. No. 1,145,066; July 6; Gaz. vol. 216; p. 34.
 Telephony, Wireless- R. A. Fessenden. No. 1,132,569; Mar. 23; Gaz. vol. 212; p. 1077.
 Telephony, Wireless- R. A. Fessenden. No. 1,147,010; July 20; Gaz. vol. 216; p. 753.
 Telephony, Wireless- R. Graves. No. 1,138,652; May 11; Gaz. vol. 214; p. 363.
 Telephony, Wireless- L. Tronchon. No. 1,129,821; Feb. 23; Gaz. vol. 211; p. 1225.
 Telemeter, Horizontal- O. Eppenstein. No. 1,150,585; Aug. 17; Gaz. vol. 217; p. 913.
 Telemeter indicating device- O. Eppenstein. No. 1,158,191; Oct. 26; Gaz. vol. 219; p. 1120.
 Telemeter, Stereoscopic- O. Eppenstein. No. 1,148,222; July 27; Gaz. vol. 216; p. 1205.
 Telephone, H. A. Bates. No. 1,129,840; Mar. 2; Gaz. vol. 212; p. 3.
 Telephone, F. Q. Dutton. No. 1,125,823; Jan. 19; Gaz. vol. 210; p. 1005.
 Telephone, G. A. Janicke. No. 1,142,173; June 8; Gaz. vol. 215; p. 419.
 Telephone, E. S. and C. D. Stewart. No. 1,138,698; May 11; Gaz. vol. 214; p. 379.
 Telephone-amplifier, R. D. Hatch. No. 1,137,614; Apr. 27; Gaz. vol. 213; p. 1371.
 Telephone and other sound-transmitting instruments, Transmitter for- W. P. Stunz. No. 1,144,391; June 29; Gaz. vol. 215; p. 1285.
 Telephone apparatus, W. M. Byrnes. No. 1,131,598; Mar. 9; Gaz. vol. 212; p. 642.
 Telephone apparatus, J. Erickson. No. 1,131,624; Mar. 9; Gaz. vol. 212; p. 652.
 Telephone apparatus, A. J. Kempien. No. 1,154,700; Sept. 28; Gaz. vol. 218; p. 919.
 Telephone apparatus, T. Smith. No. 1,141,279; June 1; Gaz. vol. 215; p. 67.
 Telephone appliance, J. L. Creveling. No. 1,145,751; July 6; Gaz. vol. 216; p. 272.
 Telephone attachment, J. H. W. Champion. No. 1,153,029; Sept. 7; Gaz. vol. 218; p. 237.
 Telephone attachment, J. H. Clemons. No. 1,142,080; June 8; Gaz. vol. 215; p. 386.
 Telephone attachment, D. J. Daniel. No. 1,147,312; July 20; Gaz. vol. 216; p. 856.
 Telephone attachment, P. A. Johnson. No. 1,130,608; Mar. 2; Gaz. vol. 212; p. 269.
 Telephone attachment, H. R. Smith. No. 1,153,349; Sept. 14; Gaz. vol. 218; p. 386.
 Telephone attachment, J. Whitaker. No. 1,125,614; Jan. 19; Gaz. vol. 210; p. 930.
 Telephone attachment, Sanitary- T. H. R. Miller. No. 1,140,996; May 25; Gaz. vol. 214; p. 1260.
 Telephone busy-signal apparatus, G. E. Kimball. No. 1,144,330; June 22; Gaz. vol. 215; p. 1236.
 Telephone-cable, K. W. Wagner. No. 1,153,655; Sept. 14; Gaz. vol. 218; p. 495.
 Telephone-call-distributing system, H. P. Clausen. No. 1,128,660; Feb. 16; Gaz. vol. 211; p. 787.
 Telephone-call recorder, J. K. Guthrie. No. 1,123,734; Jan. 5; Gaz. vol. 210; p. 183.
 Telephone-call recorder, D. J. McGauran. No. 1,128,019; Feb. 9; Gaz. vol. 211; p. 516.
 Telephone-call recorder, D. J. McGauran. No. 1,135,971; Apr. 13; Gaz. vol. 213; p. 711.
 Telephone-call recorder, C. M. Rose. No. 1,140,070; May 18; Gaz. vol. 214; p. 902.
 Telephone-call register, W. G. Dodge and C. H. Leave. No. 1,138,283; May 4; Gaz. vol. 214; p. 196.
 Telephone-call register, J. A. Robinson. No. 1,143,140; June 15; Gaz. vol. 215; p. 795.
 Telephone-call-registering device, E. Ferran and F. D. Tweeddale. No. 1,135,887; Apr. 13; Gaz. vol. 213; p. 681.
 Telephone-call-registering device- V. Thompson. No. 1,141,367; June 1; Gaz. vol. 215; p. 100.
 Telephone-circuits, Means for controlling- W. C. Ude. No. 1,145,632; July 6; Gaz. vol. 216; p. 229.
 Telephone connections, Self-induction coil for duplex or Multiplex- A. H. Olsson and H. B. M. Pleijel. No. 1,148,792; Aug. 3; Gaz. vol. 217; p. 111.
 Telephone-exchange, F. A. Lundquist. No. 1,135,121; Apr. 13; Gaz. vol. 213; p. 414.
 Telephone-exchange apparatus, E. E. Hinrichsen. No. 1,127,889; Feb. 9; Gaz. vol. 211; p. 471.
 Telephone-exchange apparatus, C. H. North. No. 1,130,190; Mar. 2; Gaz. vol. 212; p. 122.
 Telephone-exchange apparatus and system, J. Erickson. No. 1,123,506; Jan. 5; Gaz. vol. 210; p. 106.
 Telephone-exchange, Automatic- C. L. Goodrum. No. 1,161,655; Nov. 23; Gaz. vol. 220; p. 1274.
 Telephone-exchange, Automatic- G. W. Lorimer. No. 1,128,469; Feb. 16; Gaz. vol. 211; p. 722.
 Telephone-exchange calling device, Automatic- A. E. Keith, J. and C. J. Erickson. No. 1,151,541; Aug. 24; Gaz. vol. 217; p. 1296.
 Telephone-exchange switchboard, C. O. Lee, Jr. No. 1,136,347; Apr. 20; Gaz. vol. 213; p. 884.
 Telephone-exchange system, G. Babcock. No. 1,138,174; May 4; Gaz. vol. 214; p. 159.
 Telephone-exchange system, S. H. Browne. No. 1,125,954; Jan. 26; Gaz. vol. 210; p. 1083.
 Telephone-exchange system, S. H. Browne. (Reissue.) No. 13,891; Mar. 16; Gaz. vol. 212; p. 1021.
 Telephone-exchange system, E. S. Browning. No. 1,129,951; Mar. 2; Gaz. vol. 212; p. 41.
 Telephone-exchange system, E. E. Clement. No. 1,145,120; July 6; Gaz. vol. 216; p. 52.
 Telephone-exchange system, E. R. Corwin. No. 1,161,196; Nov. 23; Gaz. vol. 220; p. 1113.
 Telephone-exchange system, G. Deakin. No. 1,142,678; June 8; Gaz. vol. 215; p. 594.

Alphabetical list of inventions—Continued.

- Telephone-exchange system. H. G. Dietl. No. 1,147,928; July 27; Gaz. vol. 216; p. 1100.
- Telephone-exchange system. F. W. Dunbar. No. 1,133,111; Mar. 23; Gaz. vol. 212; p. 1276.
- Telephone-exchange system. E. E. Hinrichsen. No. 1,161,214; Nov. 23; Gaz. vol. 220; p. 1120.
- Telephone-exchange system. M. L. Johnson. No. 1,145,245; July 6; Gaz. vol. 216; p. 95.
- Telephone-exchange system. M. L. Johnson. No. 1,146,074; July 13; Gaz. vol. 216; p. 405.
- Telephone-exchange system. F. A. Lundquist. No. 1,146,889; July 20; Gaz. vol. 216; p. 709.
- Telephone-exchange system. T. G. Martin. No. 1,123,339; Jan. 5; Gaz. vol. 210; p. 49.
- Telephone-exchange system. T. G. Martin. No. 1,155,672; Oct. 5; Gaz. vol. 219; p. 121.
- Telephone-exchange system. W. H. Matthies. No. 1,161,874; Nov. 30; Gaz. vol. 220; p. 1396.
- Telephone-exchange system. F. R. McBerty. No. 1,123,340; Jan. 5; Gaz. vol. 210; p. 50.
- Telephone-exchange system. F. R. McBerty. No. 1,125,579; Jan. 19; Gaz. vol. 210; p. 916.
- Telephone-exchange system. F. R. McBerty. No. 1,126,047; Jan. 26; Gaz. vol. 210; p. 1117.
- Telephone-exchange system. F. R. McBerty. No. 1,126,803; Feb. 2; Gaz. vol. 211; p. 50.
- Telephone-exchange system. F. R. McBerty. No. 1,127,467; Feb. 9; Gaz. vol. 211; p. 322.
- Telephone-exchange system. F. R. McBerty. No. 1,156,416; Oct. 12; Gaz. vol. 219; p. 405.
- Telephone-exchange system. F. R. McBerty. No. 1,157,018; Oct. 19; Gaz. vol. 219; p. 646.
- Telephone-exchange system. F. R. McBerty. No. 1,159,595; Nov. 9; Gaz. vol. 220; p. 446.
- Telephone-exchange system. L. Polinkowsky. No. 1,139,906; May 18; Gaz. vol. 214; p. 843.
- Telephone-exchange system. L. Polinkowsky. No. 1,161,411; Nov. 23; Gaz. vol. 220; p. 1191.
- Telephone-exchange system. J. L. Wright. No. 1,126,173; Jan. 26; Gaz. vol. 210; p. 1165.
- Telephone-exchange system. J. L. Wright. No. 1,128,646; Feb. 16; Gaz. vol. 211; p. 782.
- Telephone-exchange system. J. L. Wright. No. 1,134,308; Apr. 6; Gaz. vol. 213; p. 82.
- Telephone-exchange system. J. L. Wright. No. 1,137,372; Apr. 27; Gaz. vol. 213; p. 1290.
- Telephone-exchange system, Automatic. G. A. Betulander and N. G. Palmgren. No. 1,162,556; Nov. 30; Gaz. vol. 220; p. 1633.
- Telephone-exchange system, Automatic. G. Deakin. No. 1,164,479; Dec. 14; Gaz. vol. 221; p. 656.
- Telephone-exchange system, Automatic. C. L. Goodrum. No. 1,156,475; Oct. 12; Gaz. vol. 219; p. 425.
- Telephone-exchange system, Automatic. A. E. Keith and T. G. Martin. No. 1,151,542; Aug. 24; Gaz. vol. 217; p. 1297.
- Telephone-exchange system, Automatic. F. R. McBerty. No. 1,124,314; Jan. 12; Gaz. vol. 210; p. 430.
- Telephone-exchange system, Automatic. F. R. McBerty. No. 1,146,583; July 13; Gaz. vol. 216; p. 585.
- Telephone-exchange system, Automatic or semi-automatic. G. A. Betulander. No. 1,129,543; Feb. 23; Gaz. vol. 211; p. 1132.
- Telephone-exchange system for subscribers' lines with extension sets, Automatic. F. Aldendorff. No. 1,130,697; Mar. 9; Gaz. vol. 212; p. 333.
- Telephone-exchange-system impulse-transmitter. J. Erickson. No. 1,133,796; Mar. 30; Gaz. vol. 212; p. 1558.
- Telephone-exchange system, Semi-automatic. F. R. McBerty. No. 1,141,352; June 1; Gaz. vol. 215; p. 94.
- Telephone-exchange system, Semi-mechanical. A. M. Bullard. No. 1,161,608; Nov. 23; Gaz. vol. 220; p. 1258.
- Telephone-exchange system, Semi-mechanical. F. R. McBerty. No. 1,124,488; Jan. 12; Gaz. vol. 210; p. 494.
- Telephone-exchange systems, Subscriber-controlled switching apparatus for. J. Erickson. No. 1,133,373; Mar. 30; Gaz. vol. 212; p. 1406.
- Telephone-exchange trunking system. A. E. Keith. No. 1,151,543; Aug. 24; Gaz. vol. 217; p. 1297.
- Telephone-exchange trunking system. F. R. McBerty. No. 1,138,879; May 11; Gaz. vol. 214; p. 445.
- Telephone-exchange trunking system. T. G. Martin. No. 1,165,690; Dec. 28; Gaz. vol. 221; p. 1159.
- Telephone-exchange trunking system, Semi-automatic. E. A. Mellinger. No. 1,134,978; Apr. 6; Gaz. vol. 213; p. 320.
- Telephone-exchanges, Service-meter system for. H. S. Turner. No. 1,147,347; July 20; Gaz. vol. 216; p. 869.
- Telephone-exchanges, Switch and circuit for automatic. C. L. Goodrum. No. 1,147,390; July 20; Gaz. vol. 216; p. 886.
- Telephone-guard. E. O. Loeber. No. 1,140,048; May 18; Gaz. vol. 214; p. 893.
- Telephone illuminating attachment. J. Berry and D. T. Odineal. No. 1,150,413; Aug. 17; Gaz. vol. 217; p. 852.
- Telephone-index. A. H. Rosenzweig. No. 1,159,801; Nov. 9; Gaz. vol. 220; p. 522.
- Telephone-indicator. H. E. Beane. No. 1,162,899; Dec. 7; Gaz. vol. 221; p. 57.
- Telephone indicator, Party-line. E. Bowman. No. 1,125,947; Jan. 26; Gaz. vol. 210; p. 1081.
- Telephone-instrument cooler. W. P. Stunz. No. 1,145,393; July 6; Gaz. vol. 216; p. 145.
- Telephone, Intercommunicating. W. W. Henry. No. 1,130,971; Mar. 9; Gaz. vol. 212; p. 427.
- Telephone-key. G. E. Mueller. No. 1,134,282; Apr. 6; Gaz. vol. 213; p. 73.
- Telephone-lines, Inductance-coil for. S. B. Kent. No. 1,158,810; Nov. 2; Gaz. vol. 220; p. 141.
- Telephone-lines, Lightning-conductor for. M. G. Mitchell. No. 1,129,357; Feb. 23; Gaz. vol. 211; p. 1067.
- Telephone-lines, Signaling device for party. L. Ericson. No. 1,132,249; Mar. 16; Gaz. vol. 212; p. 915.
- Telephone-lines, Supervisory system for. W. W. Dean. No. 1,145,976; July 13; Gaz. vol. 216; p. 370.
- Telephone, Loud-speaking. W. Harrison. No. 1,140,263; May 18; Gaz. vol. 214; p. 967.
- Telephone-mouthpiece protector. L. A. Collins. No. 1,140,954; May 25; Gaz. vol. 214; p. 1245.
- Telephone-mouthpieces, Antiseptic attachment for. I. S. Rosenblatt. No. 1,131,088; Mar. 9; Gaz. vol. 212; p. 467.
- Telephone muffler attachment. J. Litt. No. 1,136,687; Apr. 20; Gaz. vol. 213; p. 1005.
- Telephone or other system, System of supervision for the apparatus of a. A. E. Keith. No. 1,152,385; Aug. 31; Gaz. vol. 217; p. 1635.
- Telephone or the like, Thermo-. B. Gwozdz. No. 1,152,627; Sept. 7; Gaz. vol. 218; p. 91.
- Telephone pay-station. G. Christian. No. 1,141,866; June 1; Gaz. vol. 215; p. 271.
- Telephone-pay-station indicating system. A. J. Seymour. No. 1,166,690; Dec. 28; Gaz. vol. 221; p. 1296.
- Telephone-pay-station recording device. M. M. Goldberg. No. 1,126,751; Feb. 2; Gaz. vol. 211; p. 31.
- Telephone plants, Impulse-transmitter for automatic. G. A. Betulander. No. 1,142,228; June 8; Gaz. vol. 215; p. 438.
- Telephone plants, Selector for. G. Grabe. No. 1,161,126; Nov. 23; Gaz. vol. 220; p. 1087.
- Telephone-receiver. N. Baldwin. No. 1,153,593; Sept. 14; Gaz. vol. 218; p. 475.
- Telephone-receiver. J. J. Comer. No. 1,137,186; Apr. 27; Gaz. vol. 213; p. 1221.
- Telephone-receiver. H. C. Egerton. No. 1,124,401; Jan. 12; Gaz. vol. 210; p. 461.
- Telephone-receiver. S. P. Grace and R. A. L. Snyder. No. 1,161,856; Nov. 30; Gaz. vol. 220; p. 1390.
- Telephone-receiver. E. Grissinger. No. 1,129,087; Feb. 23; Gaz. vol. 211; p. 972.
- Telephone-receiver. A. S. Moffat. No. 1,152,536; Sept. 7; Gaz. vol. 218; p. 58.
- Telephone-receiver. T. Rhodus. No. 1,166,152; Dec. 28; Gaz. vol. 221; p. 1321.
- Telephone-receiver. H. H. Schneider. No. 1,137,235; Apr. 27; Gaz. vol. 213; p. 1239.
- Telephone-receiver. H. B. Wier. No. 1,148,941; Aug. 3; Gaz. vol. 217; p. 161.
- Telephone-receiver attachment. G. J. Arfsten. No. 1,123,654; Jan. 5; Gaz. vol. 210; p. 156.
- Telephone-receiver head-support. C. Adams Randall. No. 1,133,833; Mar. 30; Gaz. vol. 212; p. 1571.
- Telephone-receiver support. A. H. Drake. No. 1,142,804; June 15; Gaz. vol. 215; p. 678.
- Telephone-receivers, Head-band for. N. Baldwin. No. 1,127,161; Feb. 2; Gaz. vol. 211; p. 175.
- Telephone-receivers, Tuning. H. J. Power. No. 1,138,147; May 4; Gaz. vol. 214; p. 150.
- Telephone-recorder. E. R. Talley and R. P. Norton. No. 1,131,439; Mar. 9; Gaz. vol. 212; p. 588.
- Telephone reinforcing-circuit. C. D. Lanning. No. 1,131,250; Mar. 9; Gaz. vol. 212; p. 522.
- Telephone-relay. S. G. Brown. No. 1,128,943; Feb. 16; Gaz. vol. 211; p. 887.
- Telephone-relay. J. Schiessler. No. 1,164,407; Dec. 14; Gaz. vol. 221; p. 631.
- Telephone-repeater. H. E. Shreeve. No. 1,156,636; Oct. 12; Gaz. vol. 219; p. 483.
- Telephone repeater system. J. W. Fry. No. 1,125,832; Jan. 19; Gaz. vol. 210; p. 1008.
- Telephone repeater system. T. G. Martin. No. 1,136,912; Apr. 20; Gaz. vol. 213; p. 1085.
- Telephone repeating device. D. H. Willson. No. 1,128,927; Feb. 16; Gaz. vol. 211; p. 881.
- Telephone responding apparatus, Automatic. E. J. Cressey. No. 1,138,734; May 11; Gaz. vol. 214; p. 393.
- Telephone set. W. P. Andrick. No. 1,150,009; Aug. 17; Gaz. vol. 217; p. 710.
- Telephone set. P. L. Jensen and E. S. Pridham. No. 1,148,781; Aug. 3; Gaz. vol. 217; p. 108.
- Telephone set, House. R. R. Ireland and A. F. F. Gilson. No. 1,161,863; Nov. 30; Gaz. vol. 220; p. 1393.
- Telephone sets, Guard for cords or wires of. O. Yates, Sr. No. 1,164,563; Dec. 14; Gaz. vol. 221; p. 684.
- Telephone-sheath. O. W. Messimer. No. 1,123,909; Jan. 5; Gaz. vol. 210; p. 243.
- Telephone shield or guard. R. H. Maxwell. No. 1,142,600; June 8; Gaz. vol. 215; p. 569.
- Telephone-signal. E. H. Osborn. No. 1,141,823; June 1; Gaz. vol. 215; p. 257.
- Telephone signaling system. E. A. Mellinger. No. 1,140,329; May 18; Gaz. vol. 214; p. 990.

Alphabetical list of inventions—Continued.

- Telephone signaling system, Automatic. M. Suwa. No. 1,142,857; June 15; Gaz. vol. 215; p. 696.
- Telephone, Substation-. O. M. Leich. No. 1,148,458; July 27; Gaz. vol. 216; p. 1287.
- Telephone-switch. F. L. Myers. No. 1,152,336; Aug. 31; Gaz. vol. 217; p. 1617.
- Telephone switching apparatus. F. R. McBerty. No. 1,126,048; Jan. 26; Gaz. vol. 210; p. 1117.
- Telephone switching apparatus. B. D. Willis. No. 1,134,933; Apr. 6; Gaz. vol. 213; p. 303.
- Telephone switching apparatus, Automatic. J. G. Blessing. No. 1,145,542; July 6; Gaz. vol. 216; p. 198.
- Telephone switching system, Machine. F. R. McBerty and L. Polinkowsky. No. 1,137,223; Apr. 27; Gaz. vol. 213; p. 1234.
- Telephone switching system, Machine. F. R. McBerty and D. Koenig. No. 1,160,181; Nov. 16; Gaz. vol. 220; p. 709.
- Telephone switching system, Machine. L. Polinkowsky. No. 1,137,231; Apr. 27; Gaz. vol. 213; p. 1237.
- Telephone switching system, Machine. L. Polinkowsky. No. 1,160,447; Nov. 16; Gaz. vol. 220; p. 800.
- Telephone system. W. Aitken. No. 1,143,680; June 22; Gaz. vol. 215; p. 1009.
- Telephone system. G. Babcock. No. 1,138,175; May 4; Gaz. vol. 214; p. 160.
- Telephone system. P. G. Bernholz. No. 1,140,658; May 25; Gaz. vol. 214; p. 1141.
- Telephone system. O. Brisbois. No. 1,123,476; Jan. 5; Gaz. vol. 210; p. 95.
- Telephone system. E. H. Clark. No. 1,127,405; Feb. 9; Gaz. vol. 211; p. 299.
- Telephone system. H. P. Clausen. No. 1,131,912; Mar. 16; Gaz. vol. 212; p. 790.
- Telephone system. B. M. Davis. No. 1,146,786; July 20; Gaz. vol. 216; p. 674.
- Telephone system. F. W. Dunbar. No. 1,133,112; Mar. 23; Gaz. vol. 212; p. 1277.
- Telephone system. F. W. Dunbar. No. 1,133,113; Mar. 23; Gaz. vol. 212; p. 1278.
- Telephone system. A. H. Dyson. No. 1,144,407; June 29; Gaz. vol. 215; p. 1290.
- Telephone system. A. H. Dyson. No. 1,148,665; Aug. 3; Gaz. vol. 217; p. 65.
- Telephone system. A. H. Dyson. No. 1,163,899; Dec. 14; Gaz. vol. 221; p. 453.
- Telephone system. A. H. Dyson. No. 1,163,900; Dec. 14; Gaz. vol. 221; p. 453.
- Telephone system. C. E. Hague. No. 1,128,777; Feb. 16; Gaz. vol. 211; p. 826.
- Telephone system. H. L. Harris. No. 1,151,683; Aug. 31; Gaz. vol. 217; p. 1391.
- Telephone system. H. L. Harris. No. 1,161,048; Nov. 23; Gaz. vol. 220; p. 1060.
- Telephone system. C. L. Howk. No. 1,127,005; Feb. 2; Gaz. vol. 211; p. 120.
- Telephone system. K. S. Johnson. No. 1,162,069; Nov. 30; Gaz. vol. 220; p. 1465.
- Telephone system. E. E. Kleinschmidt. No. 1,137,865; May 4; Gaz. vol. 214; p. 49.
- Telephone system. E. Land. No. 1,146,002; July 13; Gaz. vol. 216; p. 379.
- Telephone system. E. Land. No. 1,146,177; July 13; Gaz. vol. 216; p. 441.
- Telephone system. F. R. McBerty. No. 1,126,046; Jan. 26; Gaz. vol. 210; p. 1116.
- Telephone system. H. W. Munsell. No. 1,150,055; Aug. 17; Gaz. vol. 217; p. 725.
- Telephone system. J. C. R. Palmer. No. 1,148,923; Aug. 3; Gaz. vol. 217; p. 155.
- Telephone system. R. L. Quass. No. 1,156,626; Oct. 12; Gaz. vol. 219; p. 479.
- Telephone system. R. L. Quass. No. 1,163,852; Dec. 14; Gaz. vol. 221; p. 438.
- Telephone system. N. C. Schellinger. No. 1,147,895; July 27; Gaz. vol. 216; p. 1088.
- Telephone system. C. Smith. No. 1,137,360; Apr. 27; Gaz. vol. 213; p. 1285.
- Telephone system. L. W. Stanton. No. 1,156,253; Oct. 12; Gaz. vol. 219; p. 346.
- Telephone system. J. A. Taggart. No. 1,154,075; Sept. 21; Gaz. vol. 218; p. 876.
- Telephone system. H. S. Turner. No. 1,128,262; Feb. 9; Gaz. vol. 211; p. 600.
- Telephone system. R. I. Utter. No. 1,149,229; Aug. 10; Gaz. vol. 217; p. 366.
- Telephone system. H. G. Webster. No. 1,123,826; Jan. 5; Gaz. vol. 210; p. 214.
- Telephone system. C. S. Winston. No. 1,157,746; Oct. 26; Gaz. vol. 219; p. 965.
- Telephone system. H. M. Wright. No. 1,131,455; Mar. 9; Gaz. vol. 212; p. 594.
- Telephone system. J. L. Wright. No. 1,145,109; July 6; Gaz. vol. 216; p. 48.
- Telephone system. F. V. Young. No. 1,128,930; Feb. 16; Gaz. vol. 211; p. 882.
- Telephone system and apparatus. C. L. Goodrum. No. 1,135,011; Apr. 13; Gaz. vol. 213; p. 376.
- Telephone system and individual transmitter therefor. C. L. Chisholm. No. 1,158,636; Nov. 2; Gaz. vol. 220; p. 80.
- Telephone system, Automatic. A. H. Dyson. No. 1,153,542; Sept. 14; Gaz. vol. 218; p. 457.
- Telephone system, Automatic. C. L. Goodrum. No. 1,147,389; July 20; Gaz. vol. 216; p. 885.
- Telephone system, Automatic. G. Grabe. No. 1,124,608; Jan. 12; Gaz. vol. 210; p. 536.
- Telephone system, Automatic. D. S. Hulsh. No. 1,147,864; July 27; Gaz. vol. 216; p. 1077.
- Telephone system, Automatic. W. Kaisling. No. 1,158,927; Nov. 2; Gaz. vol. 220; p. 181.
- Telephone system, Automatic. F. Merk. No. 1,132,107; Mar. 16; Gaz. vol. 212; p. 860.
- Telephone system, Automatic. F. Newforth, Jr. (Re-issue). No. 13,901; Apr. 13; Gaz. vol. 213; p. 714.
- Telephone system, Automatic. W. T. Powell. No. 1,165,709; Dec. 28; Gaz. vol. 221; p. 1165.
- Telephone system, Automatic. R. S. Wilbur. No. 1,157,745; Oct. 26; Gaz. vol. 219; p. 964.
- Telephone system, Automatic common-battery party-line. T. G. Martin. No. 1,151,546; Aug. 24; Gaz. vol. 217; p. 1298.
- Telephone system, Automatic extension. T. G. Martin and F. Lubberger. No. 1,151,547; Aug. 24; Gaz. vol. 217; p. 1299.
- Telephone system, Automatic selecting multiparty-. O. Asmussen. No. 1,145,659; July 6; Gaz. vol. 216; p. 239.
- Telephone system, Call-distributing. H. P. Clausen. No. 1,131,911; Mar. 16; Gaz. vol. 212; p. 789.
- Telephone system, Call-distributing. H. P. Clausen. No. 1,161,615; Nov. 23; Gaz. vol. 220; p. 1261.
- Telephone system, Common-battery automatic. W. L. Campbell. No. 1,137,200; Apr. 27; Gaz. vol. 213; p. 1225.
- Telephone system, Dictograph intercommunicating. W. P. Andrick. No. 1,160,125; Nov. 16; Gaz. vol. 220; p. 689.
- Telephone system for railway-trains. E. H. Boudwin. No. 1,148,141; July 27; Gaz. vol. 216; p. 1178.
- Telephone system, Intercommunicating. G. Deakin. No. 1,159,188; Nov. 2; Gaz. vol. 220; p. 271.
- Telephone system, Intercommunicating. H. T. Slee. No. 1,138,255; May 4; Gaz. vol. 214; p. 186.
- Telephone system, Intercommunicating trunk-line. R. M. Beard. No. 1,135,654; Apr. 13; Gaz. vol. 213; p. 600.
- Telephone system, Lock-out party-line. A. F. Erickson. No. 1,147,223; July 20; Gaz. vol. 216; p. 827.
- Telephone system, Machine-switching. F. R. McBerty. No. 1,157,881; Oct. 26; Gaz. vol. 219; p. 1011.
- Telephone system, Measured-service. B. D. Willis. No. 1,130,784; Mar. 9; Gaz. vol. 212; p. 363.
- Telephone system, Non-interfering extension or party-line. T. G. Martin. No. 1,151,544; Aug. 24; Gaz. vol. 217; p. 1298.
- Telephone system, Party-line. H. Hovland. No. 1,158,221; Oct. 26; Gaz. vol. 219; p. 1130.
- Telephone system, Party-line. G. E. Mueller. No. 1,164,662; Dec. 21; Gaz. vol. 221; p. 760.
- Telephone system, Party-line. B. D. Willis. No. 1,135,643; Apr. 13; Gaz. vol. 213; p. 596.
- Telephone system, Pay-station. J. Erickson. No. 1,160,994; Nov. 16; Gaz. vol. 220; p. 998.
- Telephone system, Semi-automatic. A. H. Dyson. No. 1,126,963; Feb. 2; Gaz. vol. 211; p. 104.
- Telephone system, Semi-automatic. M. Schwartz. No. 1,146,821; July 20; Gaz. vol. 216; p. 686.
- Telephone system, Semimechanical. A. M. Bullard. No. 1,128,701; Feb. 2; Gaz. vol. 211; p. 11.
- Telephone system, Semimechanical. A. M. Bullard. No. 1,126,952; Feb. 2; Gaz. vol. 211; p. 100.
- Telephone system, Special-service. T. G. Martin. No. 1,159,855; Nov. 9; Gaz. vol. 220; p. 542.
- Telephone system, Toll-. E. P. Baird. No. 1,149,614; Aug. 10; Gaz. vol. 217; p. 506.
- Telephone systems, Automatic switch for. W. Kaisling. No. 1,131,140; Mar. 9; Gaz. vol. 212; p. 484.
- Telephone systems, Central-station switching apparatus for automatic. F. A. Lundquist and J. J. Brownrigg. No. 1,128,701; Feb. 16; Gaz. vol. 211; p. 801.
- Telephone systems, Conversation-registering circuit for machine-switching. F. Alendorff. No. 1,147,997; July 27; Gaz. vol. 216; p. 1124.
- Telephone systems, Cord-circuit for. B. D. Willis. No. 1,156,450; Oct. 12; Gaz. vol. 219; p. 417.
- Telephone systems, Harmonic signaling device for. W. W. Dean. No. 1,125,493; Jan. 19; Gaz. vol. 210; p. 887.
- Telephone systems, Harmonic signaling device for. W. W. Dean. No. 1,125,494; Jan. 19; Gaz. vol. 210; p. 887.
- Telephone systems, Harmonic signaling device for. W. W. Dean. No. 1,125,495; Jan. 19; Gaz. vol. 210; p. 887.
- Telephone systems, Multicoin-collector and rate-indicator for automatic. C. L. Goodrum. No. 1,137,399; Apr. 27; Gaz. vol. 213; p. 1299.
- Telephone systems, Prepay-box for use in. O. Brisbois. No. 1,160,570; Nov. 16; Gaz. vol. 220; p. 845.
- Telephone systems, Selector for machine-switching. F. Alendorff. No. 1,131,811; Mar. 16; Gaz. vol. 212; p. 755.
- Telephone systems, Switch for automatic. W. M. Bruce, Jr. No. 1,161,837; Nov. 30; Gaz. vol. 220; p. 1384.
- Telephone, Thermic. B. Gwózdź. No. 1,135,687; Apr. 13; Gaz. vol. 213; p. 612.

Alphabetical list of inventions—Continued.

- Telephone-transmitter. W. W. Dean. No. 1,141,107; June 1; Gaz. vol. 215; p. 6.
- Telephone-transmitter. W. Harrison. No. 1,150,266; Aug. 17; Gaz. vol. 217; p. 802.
- Telephone-transmitter. C. D. Herrold and E. A. B. Portal. No. 1,165,255; Dec. 21; Gaz. vol. 221; p. 968.
- Telephone-transmitter. D. Koenig. No. 1,138,959; May 11; Gaz. vol. 214; p. 473.
- Telephone transmitter. J. C. R. Palmer. No. 1,132,613; Mar. 23; Gaz. vol. 212; p. 1095.
- Telephone-transmitter. C. C. Terhune. No. 1,125,764; Jan. 19; Gaz. vol. 210; p. 985.
- Telephone-transmitter attachment. T. Luby. No. 1,138,389; May 4; Gaz. vol. 214; p. 236.
- Telephone transmitter, Wireless. W. Burstyn. No. 1,148,827; Aug. 3; Gaz. vol. 217; p. 123.
- Telephone-transmitters, Mouthpiece-protector for. C. T. Smith. No. 1,136,283; Apr. 20; Gaz. vol. 213; p. 861.
- Telephone-transmitters, Mouthpiece-protector for. C. T. Smith. No. 1,136,284; Apr. 20; Gaz. vol. 213; p. 862.
- Telephone transmitting system, Wireless. L. De Forest. No. 1,125,496; Jan. 19; Gaz. vol. 210; p. 888.
- Telephone trunk-release system. J. L. E. Meyer. No. 1,161,783; Nov. 23; Gaz. vol. 220; p. 1319.
- Telephone trunking system. E. D. Fales. No. 1,143,820; June 22; Gaz. vol. 215; p. 1056.
- Telephone trunking system. J. A. Taggart. No. 1,165,728; Dec. 28; Gaz. vol. 221; p. 1172.
- Telephones and other articles, Holder for. C. H. Bartlett. No. 1,161,762; Nov. 23; Gaz. vol. 220; p. 1310.
- Telephones, Lock-out for extension or party-line. T. G. Martin and J. Erickson. No. 1,151,545; Aug. 24; Gaz. vol. 217; p. 1298.
- Telephones, Subscriber's autoswitching system for intercommunicating. R. F. Pickens. No. 1,152,968; Sept. 7; Gaz. vol. 218; p. 216.
- Telephonic and telegraphic transmission, Means of combined. P. B. Delany. No. 1,137,193; Apr. 27; Gaz. vol. 213; p. 1223.
- Telephonic apparatus. H. C. Egerton. No. 1,140,366; May 25; Gaz. vol. 214; p. 1037.
- Telephonic apparatus. W. Rohde. No. 1,153,572; Sept. 14; Gaz. vol. 218; p. 468.
- Telephonic apparatus. H. E. Shreeve. No. 1,130,029; Mar. 2; Gaz. vol. 212; p. 66.
- Telephonic circuits, Compensating device for. S. G. Brown. No. 1,140,946; May 25; Gaz. vol. 214; p. 1242.
- Telephonic device. H. E. Shreeve. No. 1,159,603; Nov. 9; Gaz. vol. 220; p. 450.
- Telephonic transmission-circuit. H. G. Dorsey. No. 1,145,978; July 13; Gaz. vol. 216; p. 371.
- Telephonograph. E. Chabault. No. 1,135,436; Apr. 13; Gaz. vol. 213; p. 523.
- Telephony. S. G. Brown. No. 1,133,923; Mar. 30; Gaz. vol. 212; p. 1601.
- Telephony. H. P. Clausen. No. 1,133,264; Mar. 30; Gaz. vol. 212; p. 1366.
- Telephony. E. R. Corwin. No. 1,141,937; June 8; Gaz. vol. 215; p. 335.
- Telephony. W. W. Dean. No. 1,145,861; July 6; Gaz. vol. 216; p. 310.
- Telescope. P. Ferber. No. 1,137,192; Apr. 27; Gaz. vol. 213; p. 1222.
- Telephony. M. L. Johnson. No. 1,147,025; July 20; Gaz. vol. 216; p. 758.
- Telephony. M. L. Johnson. No. 1,147,246; July 20; Gaz. vol. 216; p. 835.
- Telephony. A. W. Steinke. No. 1,153,352; Sept. 14; Gaz. vol. 218; p. 387.
- Telephony, Automatic. W. M. Bruce, Jr. No. 1,163,390; Dec. 7; Gaz. vol. 221; p. 229.
- Telephony, Automatic. C. L. Goodrum. No. 1,147,716; July 27; Gaz. vol. 216; p. 1026.
- Telephony selective system. R. C. M. Hastings. (Reissue). No. 13,989; Sept. 28; Gaz. vol. 218; p. 1132.
- Telephotographic apparatus. L. J. R. Holst. No. 1,138,217; May 4; Gaz. vol. 214; p. 173.
- Telescope attachment. H. C. Mustin. No. 1,153,945; Sept. 21; Gaz. vol. 218; p. 631.
- Telescope, Bore-sighting. F. J. Cleary. No. 1,126,697; Jan. 26; Gaz. vol. 211; p. 1244.
- Telescope, Surveying. H. P. T. Matte. No. 1,149,668; Aug. 10; Gaz. vol. 217; p. 527.
- Telescope with variable magnification. J. B. Baillet-Lemaire. No. 1,127,720; Feb. 9; Gaz. vol. 211; p. 409.
- Telescopes, Cross-line mounting for. F. J. Cleary. No. 1,128,410; Feb. 16; Gaz. vol. 211; p. 700.
- Telescopes, Eye-piece adjustment for surveyors'. W. L. Bierbrauer and P. A. H. Sachse. No. 1,130,468; Mar. 2; Gaz. vol. 212; p. 220.
- Telescope sight provided with variable sighting-points. O. Grauhedding. No. 1,135,787; Apr. 13; Gaz. vol. 213; p. 645.
- Telescopy, Electric. B. Rosing. No. 1,161,734; Nov. 23; Gaz. vol. 220; p. 1301.
- Telescopy, Electrical. B. Rosing. No. 1,135,624; Apr. 13; Gaz. vol. 213; p. 589.
- Telltale, Cautionary. C. E. Renshaw and C. H. Jenkins. No. 1,134,698; Apr. 6; Gaz. vol. 213; p. 225.
- Telltale switch. J. Howland. No. 1,132,849; Mar. 23; Gaz. vol. 212; p. 1182.
- Tellurian. W. Park. No. 1,131,263; Mar. 9; Gaz. vol. 212; p. 527.
- Tellurian. W. Park. No. 1,135,204; Apr. 13; Gaz. vol. 213; p. 443.
- Telpherage system. J. Lamb. No. 1,166,227; Dec. 28; Gaz. vol. 221; p. 1349.
- Temperature-controlling apparatus. J. W. and C. W. Hays. No. 1,157,866; Oct. 26; Gaz. vol. 219; p. 1006.
- Temperature-controlling device. M. O. Snediker. No. 1,137,921; May 4; Gaz. vol. 214; p. 69.
- Temperature-controlling system, Automatic. S. N. Jordan. No. 1,162,071; Nov. 30; Gaz. vol. 220; p. 1466.
- Temperature device. J. Krovetz. No. 1,123,556; Jan. 5; Gaz. vol. 210; p. 122.
- Temperature-indicator. C. L. Fortescue. No. 1,156,680; Oct. 12; Gaz. vol. 219; p. 498.
- Temperature-indicator. J. E. Robinson. No. 1,161,530; Nov. 23; Gaz. vol. 220; p. 1232.
- Temperature-indicator. E. J. Swanson. No. 1,144,009; June 22; Gaz. vol. 215; p. 1122.
- Temperature-regulating apparatus. J. F. Gallagher. No. 1,149,818; Aug. 10; Gaz. vol. 217; p. 580.
- Temperature-regulating apparatus. J. F. Gallagher. No. 1,149,819; Aug. 10; Gaz. vol. 217; p. 581.
- Temperature-regulating system, Automatic. H. G. Gelsinger. No. 1,144,032; June 22; Gaz. vol. 215; p. 1131.
- Temperature-regulator. I. Hall. No. 1,149,046; Aug. 3; Gaz. vol. 217; p. 198.
- Temperature-regulator. F. T. Kitchen. No. 1,152,027; Aug. 31; Gaz. vol. 217; p. 1511.
- Temperature-regulator. J. O. Steensland. No. 1,153,407; Sept. 14; Gaz. vol. 218; p. 408.
- Tempering-machine. L. D. and A. P. Slade. No. 1,126,307; Jan. 26; Gaz. vol. 210; p. 1212.
- Temple-tip, Adjustable. C. H. Perkins. No. 1,138,012; May 4; Gaz. vol. 214; p. 101.
- Templet. C. H. Wilks. No. 1,135,089; Apr. 13; Gaz. vol. 213; p. 403.
- Templet, Garment-. M. W. Russell. No. 1,149,468; Aug. 10; Gaz. vol. 217; p. 452.
- Temporal meter. T. W. Kelton. No. 1,163,091; Dec. 7; Gaz. vol. 221; p. 124.
- Tennis-court-marking-tape outfit. W. H. Holcomb. No. 1,142,039; June 8; Gaz. vol. 215; p. 372.
- Tennis courts, Means for marking the lines of lawn-. C. Dobert. No. 1,145,754; July 6; Gaz. vol. 216; p. 273.
- Tennis-racket. F. J. Bancroft. No. 1,156,340; Oct. 12; Gaz. vol. 219; p. 376.
- Tennis-racket. H. W. Ries and L. B. Brown. No. 1,132,214; Mar. 16; Gaz. vol. 212; p. 900.
- Tennis-racket frame. M. B. Reach and W. Richey. No. 1,131,418; Mar. 9; Gaz. vol. 212; p. 581.
- Tennis rackets, Tension means for lawn-. P. D. Parsons. No. 1,140,282; May 18; Gaz. vol. 214; p. 973.
- Tenon-cutter. H. E. Finney. No. 1,145,237; July 6; Gaz. vol. 216; p. 93.
- Tenon-cutter. S. N. House. No. 1,149,581; Aug. 10; Gaz. vol. 217; p. 492.
- Tenon-cutting machine. Z. Martell. No. 1,153,938; Sept. 21; Gaz. vol. 218; p. 629.
- Tenoning-head. A. Madson. No. 1,130,913; Mar. 9; Gaz. vol. 212; p. 407.
- Tenpin. H. F. Seidel and C. W. Voskamp. No. 1,131,090; Mar. 9; Gaz. vol. 212; p. 467.
- Tension apparatus. G. S. Williamson and C. E. Mandelick. No. 1,160,556; Nov. 16; Gaz. vol. 220; p. 840.
- Tension control. M. C. Hutton. No. 1,152,316; Aug. 31; Gaz. vol. 217; p. 1610.
- Tension device. J. V. Allen. No. 1,149,244; Aug. 10; Gaz. vol. 217; p. 371.
- Tension device. F. S. Rand and G. N. Taylor. No. 1,156,927; Oct. 19; Gaz. vol. 219; p. 613.
- Tension device. V. Royle. No. 1,142,531; June 8; Gaz. vol. 215; p. 545.
- Tensioning device. J. Boyd. No. 1,164,165; Dec. 14; Gaz. vol. 221; p. 545.
- Tensioning device. W. A. Fulford. No. 1,147,318; July 20; Gaz. vol. 216; p. 858.
- Tensioning device. E. Nall. No. 1,127,494; Feb. 9; Gaz. vol. 211; p. 333.
- Tensioning device. E. Nall. No. 1,133,309; Mar. 30; Gaz. vol. 212; p. 1382.
- Tent. C. M. Averitt. No. 1,136,092; Apr. 27; Gaz. vol. 213; p. 1150.
- Tent. A. H. Corbet. No. 1,155,800; Oct. 5; Gaz. vol. 219; p. 167.
- Tent. T. Hackerson. No. 1,130,728; Mar. 9; Gaz. vol. 212; p. 343.
- Tent. W. R. Phillips. No. 1,127,087; Feb. 2; Gaz. vol. 211; p. 149.
- Tent, Collapsible. J. B. Bemis. No. 1,124,263; Jan. 12; Gaz. vol. 210; p. 411.
- Tent for babies, Guard-. R. Lera. No. 1,147,414; July 20; Gaz. vol. 216; p. 894.
- Tent for babies, Guard-. R. Lera. No. 1,164,294; Dec. 14; Gaz. vol. 221; p. 590.
- Tent-frame, Telescoping and folding. W. S. Hanley. No. 1,129,194; Feb. 23; Gaz. vol. 211; p. 1010.
- Tent-rack. J. Taylor, Jr. No. 1,134,295; Apr. 6; Gaz. vol. 213; p. 77.

Alphabetical list of inventions—Continued.

- Tent, Sanitary. J. H. V. Bache. No. 1,123,657; Jan. 5; Gaz. vol. 210; p. 157.
- Tent-slide. H. T. Neuman and C. S. Danziger. No. 1,125,374; Jan. 19; Gaz. vol. 210; p. 847.
- Tentering-machine clip. H. Nolln. No. 1,143,989; June 22; Gaz. vol. 215; p. 1114.
- Terminal box. A. C. McWilliams. No. 1,148,609; Aug. 3; Gaz. vol. 217; p. 77.
- Terminal clip. W. Shaw. No. 1,147,450; July 20; Gaz. vol. 216; p. 907.
- Terminal clip. L. A. Thomas. No. 1,132,500; Mar. 16; Gaz. vol. 212; p. 1005.
- Terminal connection. A. H. Snyder. No. 1,127,935; Feb. 9; Gaz. vol. 211; p. 487.
- Terminal connector. J. A. Jones. No. 1,149,063; Aug. 3; Gaz. vol. 217; p. 205.
- Terminal devices, Making. B. P. Rowe. No. 1,156,710; Oct. 12; Gaz. vol. 219; p. 508.
- Terminal structure. C. W. Davis. No. 1,159,655; Nov. 9; Gaz. vol. 220; p. 468.
- Terminals, Connector for ground-. A. R. Rheinberger. No. 1,156,314; Oct. 12; Gaz. vol. 219; p. 366.
- Terminals, Making. H. B. Andrews. No. 1,144,281; June 22; Gaz. vol. 215; p. 1219.
- Terret. Harness-. L. B. Hoyt and E. E. Currier. No. 1,128,804; Feb. 23; Gaz. vol. 211; p. 1220.
- Test-indicator. H. A. Lowe. No. 1,144,367; June 29; Gaz. vol. 215; p. 1278.
- Test-indicator. J. L. Wolfe. No. 1,134,713; Apr. 6; Gaz. vol. 213; p. 230.
- Test-indicator, Universal. J. E. Oslund. No. 1,157,800; Oct. 26; Gaz. vol. 219; p. 982.
- Test-indicator, Universal. J. N. Warner. No. 1,139,936; May 18; Gaz. vol. 214; p. 852.
- Testing apparatus. C. H. Cahusac. No. 1,125,462; Jan. 19; Gaz. vol. 210; p. 876.
- Testing apparatus. A. B. Collette. No. 1,134,316; Apr. 6; Gaz. vol. 213; p. 86.
- Testing device. E. S. and C. D. Stewart. No. 1,161,082; Nov. 23; Gaz. vol. 220; p. 1072.
- Testing device. J. W. White. No. 1,137,821; May 4; Gaz. vol. 214; p. 34.
- Testing-machine, Transverse. A. H. Emery. No. 1,147,153; July 20; Gaz. vol. 216; p. 802.
- Testing mechanism. M. W. Morehouse. No. 1,157,796; Oct. 26; Gaz. vol. 219; p. 981.
- Tether-stake. M. F. Jones. No. 1,155,421; Oct. 5; Gaz. vol. 219; p. 34.
- Tetrachlorid of carbon and other halogen hydrocarbons, or hydrocarbons, soluble in dilute solutions of soap, Rendering. L. Frank and G. Fendler. No. 1,165,498; Dec. 28; Gaz. vol. 221; p. 1090.
- Textile apparatus. H. L. Brown. No. 1,149,718; Aug. 10; Gaz. vol. 217; p. 543.
- Textile apparatus, Stopping instrumentality and mechanism for. R. Crompton. No. 1,142,752; June 8; Gaz. vol. 215; p. 618.
- Textile-apparatus-stopping mechanism. R. Crompton. No. 1,142,751; June 8; Gaz. vol. 215; p. 618.
- Textile-apparatus-stopping mechanism. R. Crompton. No. 1,142,753; June 8; Gaz. vol. 215; p. 619.
- Textile fabric. F. G. Murch. No. 1,139,705; May 18; Gaz. vol. 214; p. 772.
- Textile fibers with liquids, Apparatus for the treatment of. J. Hirschberger. No. 1,154,631; Sept. 28; Gaz. vol. 218; p. 896.
- Textile-machine. H. D. Colman. No. 1,149,499; Aug. 10; Gaz. vol. 217; p. 462.
- Textile-machine. C. Lea. No. 1,153,869; Sept. 14; Gaz. vol. 218; p. 572.
- Textile-machine stop mechanism. J. C. Pratt. No. 1,140,063; May 18; Gaz. vol. 214; p. 899.
- Textile products from solutions of cellulose or plastic substances, Making imitation. J. Foltzer. No. 1,133,548; Mar. 30; Gaz. vol. 212; p. 1468.
- Textiles used in aeronautics and aviation, and the aeroplane-framework produced thereby, Treating. E. A. J. Descamps. No. 1,156,894; Oct. 19; Gaz. vol. 219; p. 601.
- Theater and like chair. J. Wallace. No. 1,145,340; July 6; Gaz. vol. 216; p. 126.
- Theater-chair. H. A. Bouk. No. 1,152,480; Sept. 7; Gaz. vol. 218; p. 36.
- Theater-chair. F. J. Kerbel. No. 1,144,603; June 29; Gaz. vol. 215; p. 1355.
- Theater-chair. F. J. Kerbel. No. 1,166,376; Dec. 28; Gaz. vol. 221; p. 1403.
- Theaters, Chair-signal for. J. J. McComish. No. 1,133,985; Mar. 30; Gaz. vol. 212; p. 1620.
- Theatrical apparatus. H. L. Bowdoin. No. 1,146,548; July 13; Gaz. vol. 216; p. 572.
- Theatrical appliance. M. Lewin. No. 1,150,869; Aug. 24; Gaz. vol. 217; p. 1069.
- Theatrical appliance. A. Wayrich. No. 1,154,950; Sept. 28; Gaz. vol. 218; p. 1003.
- Theatrical-scenery device. C. W. Smith. No. 1,147,823; July 27; Gaz. vol. 216; p. 1063.
- Theodolite. H. Brandenberg. No. 1,128,578; Feb. 16; Gaz. vol. 211; p. 759.
- Theodolites, Adjusting device for. C. H. Ley. No. 1,145,075; July 6; Gaz. vol. 216; p. 37.
- Therapeutic apparatus. H. B. Philips. No. 1,155,271; Sept. 28; Gaz. vol. 218; p. 1112.
- Therapeutic apparatus, Electrical. R. W. Chapman. No. 1,153,839; Sept. 14; Gaz. vol. 218; p. 560.
- Therapeutic treatment, and apparatus therefor, Method of. J. H. Kellogg. No. 1,127,897; Feb. 9; Gaz. vol. 211; p. 474.
- Therapeutical apparatus, High-frequency. F. M. and M. H. Kidder. No. 1,127,017; Feb. 2; Gaz. vol. 211; p. 125.
- Therapeutical device. J. H. Bradley. No. 1,134,720; Apr. 6; Gaz. vol. 213; p. 233.
- Thermal circuit-closure. J. Carrigan. No. 1,136,407; Apr. 20; Gaz. vol. 213; p. 907.
- Thermal engine. L. D. Lovekin, C. J. Ramsburg, and R. P. Nichols. No. 1,149,588; Aug. 10; Gaz. vol. 217; p. 494.
- Thermal switch. M. C. Ryan. No. 1,150,706; Aug. 17; Gaz. vol. 217; p. 954.
- Thermionic detector. H. D. Arnold. No. 1,128,280; Feb. 16; Gaz. vol. 211; p. 658.
- Thermo-couples, Protecting hood for. A. F. Mitchell. No. 1,140,701; May 25; Gaz. vol. 214; p. 1154.
- Thermo-electric ammeter. P. M. Lincoln. No. 1,142,898; June 15; Gaz. vol. 215; p. 711.
- Thermo-electric battery for motor-vehicles. L. E. Hale. No. 1,134,452; Apr. 6; Gaz. vol. 213; p. 135.
- Thermo-electric pyrometer system. R. P. Brown. No. 1,144,688; June 29; Gaz. vol. 215; p. 1385.
- Thermo-electric regulating system. G. N. Blanchard. No. 1,141,307; June 1; Gaz. vol. 215; p. 79.
- Thermo-hygrostat. E. M. Jones. No. 1,162,490; Nov. 30; Gaz. vol. 220; p. 1611.
- Thermo non-conductor. C. G. Muench. No. 1,153,512; Sept. 14; Gaz. vol. 218; p. 446.
- Thermometer. F. E. Amthor. No. 1,165,564; Dec. 28; Gaz. vol. 221; p. 1112.
- Thermometer. H. L. Beach. No. 1,132,426; Mar. 16; Gaz. vol. 212; p. 977.
- Thermometer. J. B. Fournier. No. 1,144,649; June 29; Gaz. vol. 215; p. 1372.
- Thermometer. O. Herrmann. No. 1,136,527; Apr. 20; Gaz. vol. 213; p. 949.
- Thermometer. G. E. Spear. No. 1,161,262; Nov. 23; Gaz. vol. 220; p. 1138.
- Thermometer, Automobile radiator-. E. A. Larson. No. 1,136,682; Apr. 20; Gaz. vol. 213; p. 1003.
- Thermometer cap, Radiator-. D. P. Fraser. No. 1,154,503; Sept. 21; Gaz. vol. 218; p. 822.
- Thermometer casing, Clinical-. J. T. Greeley. No. 1,152,503; Sept. 7; Gaz. vol. 218; p. 44.
- Thermometer, Clinical-. C. H. Dietz. No. 1,152,153; Aug. 31; Gaz. vol. 217; p. 1555.
- Thermometer, Clinical-. F. C. Dudley. No. 1,145,675; July 6; Gaz. vol. 216; p. 244.
- Thermometer, Compensating. F. E. Amthor. No. 1,165,934; Dec. 28; Gaz. vol. 221; p. 1242.
- Thermometer for bakers. A. Watkins. No. 1,153,740; Sept. 14; Gaz. vol. 218; p. 525.
- Thermometer-holder. J. A. Howe. No. 1,165,973; Dec. 28; Gaz. vol. 221; p. 1256.
- Thermometer-holder for incubators, sprouting-trays, drawers, and other receptacles, Adjustable. J. E. Rohan. No. 1,162,653; Nov. 30; Gaz. vol. 220; p. 1662.
- Thermometer, Oven-. C. D. Bolin and L. E. More. No. 1,141,926; June 8; Gaz. vol. 215; p. 332.
- Thermometer, Oven-. A. E. Whittier. No. 1,143,925; June 22; Gaz. vol. 215; p. 1091.
- Thermometer, Oven-. A. E. Whittier. No. 1,151,638; Aug. 31; Gaz. vol. 217; p. 1376.
- Thermometer, Radiator-. F. A. Ross. No. 1,159,712; Nov. 9; Gaz. vol. 220; p. 488.
- Thermopile. P. Ferra. No. 1,127,424; Feb. 9; Gaz. vol. 211; p. 306.
- Thermostat. G. C. Andrews. No. 1,131,651; Mar. 16; Gaz. vol. 212; p. 696.
- Thermostat. D. Belden. No. 1,154,361; Sept. 21; Gaz. vol. 218; p. 775.
- Thermostat. J. Boeckel and J. H. Scherer. No. 1,141,605; June 1; Gaz. vol. 215; p. 185.
- Thermostat. R. F. Massa. No. 1,146,637; July 13; Gaz. vol. 216; p. 603.
- Thermostat. H. T. Raymond. No. 1,131,733; Mar. 16; Gaz. vol. 212; p. 724.
- Thermostat. J. H. Royall. No. 1,166,081; Dec. 28; Gaz. vol. 221; p. 1293.
- Thermostat. H. D. Singer and H. V. D. Pratt. No. 1,124,541; Jan. 12; Gaz. vol. 210; p. 513.
- Thermostat-motor. C. D. Miller. No. 1,157,889; Oct. 26; Gaz. vol. 219; p. 1014.
- Thermostat, Sparkless. G. P. Carroll and F. N. Roehrich. No. 1,125,059; Jan. 19; Gaz. vol. 210; p. 732.
- Thermostat, Time-controlled. C. E. Jewell. No. 1,154,926; Sept. 28; Gaz. vol. 218; p. 995.
- Thermostats and the like, Adjusting means for. P. F. Johnson. No. 1,139,185; May 11; Gaz. vol. 214; p. 554.
- Thermostatic control. G. R. Fassett. No. 1,155,650; Oct. 5; Gaz. vol. 219; p. 113.
- Thermostatic controller. C. A. Dunham. (Reissue.) No. 13,900; Apr. 13; Gaz. vol. 213; p. 713.

Alphabetical list of inventions—Continued.

- Thermostatic heater. J. L. Quinn. No. 1,157,255; Oct. 19; Gaz. vol. 219; p. 731.
- Thermostatic regulating device. W. H. Carrier and E. W. Comfort. (Reissue.) No. 13,947; July 20; Gaz. vol. 216; p. 993.
- Thermostatic regulating device. E. Haagn. No. 1,123,277; Jan. 5; Gaz. vol. 210; p. 26.
- Thermostatic regulating device. I. Hall. No. 1,128,778; Feb. 16; Gaz. vol. 211; p. 827.
- Thermostatic trap or valve. J. H. Martin, Jr. No. 1,162,725; Nov. 30; Gaz. vol. 220; p. 1688.
- Thermotelephone. B. Gwózdź. No. 1,135,086; Apr. 13; Gaz. vol. 213; p. 611.
- Thickness-indicating machine, Visual minimum-. E. E. Barber. No. 1,125,443; Jan. 19; Gaz. vol. 210; p. 871.
- Thill-coupling. M. Grimord. No. 1,128,974; Feb. 16; Gaz. vol. 211; p. 899.
- Thill-coupling. W. J. Hotchkiss. No. 1,126,472; Jan. 26; Gaz. vol. 210; p. 1270.
- Thill-support. A. H. Lofland and C. H. Davidson. No. 1,142,900; June 15; Gaz. vol. 215; p. 712.
- Thill-support loop. A. Bernstein. No. 1,133,356; Mar. 30; Gaz. vol. 212; p. 1400.
- Thill-tug. G. W. Cook. No. 1,131,679; Mar. 16; Gaz. vol. 212; p. 706.
- Thill-tug. H. G. Heckmann. No. 1,145,481; July 6; Gaz. vol. 216; p. 178.
- Thill, Vehicle-. L. Trabue. No. 1,129,529; Feb. 23; Gaz. vol. 211; p. 1128.
- Thimble and needle-threader, Combination. J. H. Boye. No. 1,143,249; June 15; Gaz. vol. 215; p. 836.
- Thimble, Safety sewing-. M. C. S. Willsey. No. 1,150,724; Aug. 17; Gaz. vol. 217; p. 960.
- Thionylchlorid, Producing. H. von Keler. No. 1,125,114; Jan. 19; Gaz. vol. 210; p. 751.
- Thistle-eradicator. H. Bornemann and J. Tennesen, Jr. No. 1,136,206; Apr. 20; Gaz. vol. 213; p. 834.
- Thread and making the same, Wax. H. A. Bates. No. 1,132,150; Mar. 16; Gaz. vol. 212; p. 877.
- Thread-board-cleaning apparatus. H. D. Colman and B. A. Peterson. No. 1,137,305; Apr. 27; Gaz. vol. 213; p. 1265.
- Thread-board lifter. O. L. Owen. No. 1,151,384; Aug. 24; Gaz. vol. 217; p. 1241.
- Thread coupling for conduit members, Differential-. C. W. Morden. No. 1,128,997; Feb. 16; Gaz. vol. 211; p. 906.
- Thread-cutter. A. Nieberg. No. 1,134,895; Apr. 6; Gaz. vol. 213; p. 291.
- Thread-cutting apparatus, Bindings-. J. Wolter. No. 1,133,777; Mar. 30; Gaz. vol. 212; p. 1551.
- Thread-cutting device. H. L. Fisher. No. 1,134,083; Mar. 30; Gaz. vol. 212; p. 1654.
- Thread-cutting mechanism. E. B. Allen. No. 1,153,412; Sept. 14; Gaz. vol. 218; p. 410.
- Thread-cutting mechanism. J. J. Sullivan and A. F. Fifield. No. 1,151,735; Aug. 31; Gaz. vol. 217; p. 1408.
- Thread-cutting temples, Guide for. A. E. Rhoades. No. 1,141,654; June 1; Gaz. vol. 215; p. 202.
- Thread-cutting tool. W. W. Vosper. No. 1,153,981; Sept. 21; Gaz. vol. 218; p. 643.
- Thread-cutting tool. F. O. Wells. No. 1,165,821; Dec. 28; Gaz. vol. 221; p. 1203.
- Thread-cutting tool. F. O. Wells. No. 1,165,822; Dec. 28; Gaz. vol. 221; p. 1203.
- Thread-drawing machine. C. R. Swain. No. 1,145,092; July 6; Gaz. vol. 216; p. 43.
- Thread-forming mechanism. G. T. Warwick. No. 1,130,226; Mar. 2; Gaz. vol. 212; p. 133.
- Thread-gage. C. L. Bailey. No. 1,138,438; May 4; Gaz. vol. 214; p. 253.
- Thread-gage. F. O. Wells and F. Judge. No. 1,130,866; Mar. 9; Gaz. vol. 212; p. 391.
- Thread-guide. F. B. Wildman and G. L. Ballard. No. 1,153,742; Sept. 14; Gaz. vol. 218; p. 526.
- Thread holder, Crochet-. H. N. Nollner. No. 1,144,775; June 29; Gaz. vol. 215; p. 1416.
- Thread-milling machine. C. O. Bergman. No. 1,126,688; Feb. 2; Gaz. vol. 211; p. 7.
- Thread-milling machine. E. J. Lees. No. 1,156,237; Oct. 12; Gaz. vol. 219; p. 341.
- Thread-rack. A. R. Wons. No. 1,125,622; Jan. 19; Gaz. vol. 210; p. 933.
- Thread-receptacle. H. R. Arnold. No. 1,148,209; July 27; Gaz. vol. 216; p. 1201.
- Thread-reel and needle-cushion, Combination. A. P. H. Brozokat. No. 1,146,473; July 13; Gaz. vol. 216; p. 547.
- Thread-removing implement. O. M. Garen. No. 1,131,504; Mar. 9; Gaz. vol. 212; p. 611.
- Thread-rollers, Adjustable die-holder for. A. H. Gaess. No. 1,146,560; July 13; Gaz. vol. 216; p. 577.
- Thread-rollers, Blank-guide for automatic. A. H. Gaess. No. 1,146,561; July 13; Gaz. vol. 216; p. 577.
- Thread-rolling device. A. N. Bailey. No. 1,145,661; July 6; Gaz. vol. 216; p. 240.
- Thread-rolling machines, Ejector for. C. Axmacher, T. A. Gorman, and J. Hart. No. 1,161,586; Nov. 23; Gaz. vol. 220; p. 1252.
- Thread-stand. J. W. Darley, Jr. No. 1,126,158; Jan. 26; Gaz. vol. 210; p. 1158.
- Thread-take-up mechanism. E. L. Barton. No. 1,134,252; Apr. 6; Gaz. vol. 213; p. 62.
- Thread, Treating. C. S. Althouse. No. 1,153,004; Sept. 7; Gaz. vol. 218; p. 229.
- Thread-twister. F. W. Meyer. No. 1,128,027; Feb. 9; Gaz. vol. 211; p. 519.
- Thread-waxing device. J. J. Doidge. No. 1,140,886; May 25; Gaz. vol. 214; p. 1221.
- Thread-waxing device. A. Eppler. No. 1,128,070; Feb. 16; Gaz. vol. 211; p. 790.
- Thread-winding machine. W. Marlow. No. 1,157,886; Oct. 26; Gaz. vol. 219; p. 1013.
- Threads or ribbons, Die for forming plastic material into. B. F. A. Courtine. No. 1,143,510; June 15; Gaz. vol. 215; p. 925.
- Threaded elements, Anchoring. R. S. Peirce. No. 1,147,045; July 20; Gaz. vol. 216; p. 765.
- Threader, reamer, and wrench, Combined. J. L. Broschart and E. F. Berneking. No. 1,161,377; Nov. 23; Gaz. vol. 220; p. 1180.
- Threading device. C. F. Schultis. No. 1,135,057; Apr. 13; Gaz. vol. 213; p. 393.
- Threading device. C. F. Schultis. No. 1,153,345; Sept. 14; Gaz. vol. 218; p. 384.
- Threading-die. W. J. McIntyre and D. Weir. No. 1,165,989; Dec. 28; Gaz. vol. 221; p. 1262.
- Threading-die, Hand-operated. H. L. Fisher. No. 1,142,411; June 8; Gaz. vol. 215; p. 504.
- Threading-tools or the like, Holder for. G. Amborn. No. 1,146,546; July 13; Gaz. vol. 216; p. 572.
- Three-cornered bag. F. W. Kennedy. No. 1,163,545; Dec. 7; Gaz. vol. 221; p. 282.
- Thresher and huller, Interchangeable grain. W. N. Rumely and W. C. Robby. No. 1,126,288; Jan. 26; Gaz. vol. 210; p. 1205.
- Thresher, Standing-grain. W. G. Engle. No. 1,134,443; Apr. 6; Gaz. vol. 213; p. 131.
- Thresher-tooth. C. Quessnell. No. 1,148,335; July 27; Gaz. vol. 216; p. 1247.
- Threshers, Beater for. F. Kerian. No. 1,133,970; Mar. 30; Gaz. vol. 212; p. 1615.
- Threshers, Bundle wagon for. C. H. Swarner. No. 1,135,073; Apr. 13; Gaz. vol. 213; p. 398.
- Threshers, Device for fastening teeth in cylinders and concaves of grain and seed. J. E. Krumm. No. 1,148,009; Aug. 3; Gaz. vol. 217; p. 151.
- Threshing-machine. J. A. Bergren. No. 1,138,835; May 11; Gaz. vol. 214; p. 430.
- Threshing-machine. C. F. Dempsey. No. 1,156,395; Oct. 12; Gaz. vol. 219; p. 398.
- Threshing-machine. H. Gautschi. No. 1,152,502; Sept. 7; Gaz. vol. 218; p. 43.
- Threshing-machine. L. O. E. Kolden. No. 1,165,786; Dec. 28; Gaz. vol. 221; p. 1191.
- Threshing-machine. D. Lucas. No. 1,158,944; Nov. 2; Gaz. vol. 220; p. 187.
- Threshing-machine. T. Pomije and J. Staska. No. 1,135,716; Apr. 13; Gaz. vol. 213; p. 622.
- Threshing-machine. G. E. M. G. B. de Salaberry. No. 1,163,513; Dec. 7; Gaz. vol. 221; p. 272.
- Threshing-machine. G. E. M. G. B. de Salaberry. No. 1,164,269; Dec. 14; Gaz. vol. 221; p. 580.
- Threshing-machine and grain-separator. R. B. Babb. No. 1,140,237; May 18; Gaz. vol. 214; p. 958.
- Threshing-machine band-cutter and feeder. A. J. Peterson. No. 1,146,900; July 20; Gaz. vol. 216; p. 713.
- Threshing-machine concave. R. C. Knaak. No. 1,127,640; Feb. 9; Gaz. vol. 211; p. 379.
- Threshing-machine feed mechanism. E. H. Kirk. No. 1,149,526; Aug. 10; Gaz. vol. 217; p. 473.
- Threshing-machine finger-board. A. Barborst. No. 1,162,548; Nov. 30; Gaz. vol. 220; p. 1631.
- Threshing-machine, maize-sheller, or like machine. T. J. Gee. No. 1,165,241; Dec. 21; Gaz. vol. 221; p. 963.
- Threshing-machine or separator beater. M. Tuma. No. 1,150,908; Aug. 24; Gaz. vol. 217; p. 1081.
- Threshing machine, Peanut-. C. R. Livermon. No. 1,158,248; Oct. 26; Gaz. vol. 219; p. 1139.
- Threshing machine, Peanut-. C. R. Livermon. No. 1,164,370; Dec. 14; Gaz. vol. 221; p. 618.
- Threshing-machine self-feeder. A. J. Peterson. No. 1,132,731; Mar. 23; Gaz. vol. 212; p. 1138.
- Threshing-machines, Swinging stacker for. H. S. Meashey. No. 1,159,405; Nov. 9; Gaz. vol. 220; p. 379.
- Threshing-machines, Toothless attachment for. J. S. Richardson. No. 1,131,086; Mar. 9; Gaz. vol. 212; p. 466.
- Threshold. E. Krause. No. 1,139,195; May 11; Gaz. vol. 214; p. 558.
- Threshold-transfer, Adjustable. G. A. Hill. No. 1,142,097; June 8; Gaz. vol. 215; p. 393.
- Throttle-stem. C. A. Gilmore. No. 1,128,129; Feb. 9; Gaz. vol. 211; p. 555.
- Throttling mechanism, Automatic. G. R. Börner. No. 1,139,478; May 18; Gaz. vol. 214; p. 691.
- Throwing-machine. C. E. Royse. No. 1,152,979; Sept. 7; Gaz. vol. 218; p. 220.
- Thrust mechanism. A. J. Eldridge. No. 1,165,655; Dec. 28; Gaz. vol. 221; p. 1146.
- Thumb-guard. R. L. Jackson. No. 1,161,478; Nov. 23; Gaz. vol. 220; p. 1214.
- Thumb-tack. P. A. Fischer. No. 1,142,688; June 8; Gaz. vol. 215; p. 598.

Alphabetical list of inventions—Continued.

- Ticket. H. A. Drake. No. 1,153,043; Sept. 7; Gaz. vol. 218; p. 241.
- Ticket-canceller. J. E. Dunasky. No. 1,131,492; Mar. 9; Gaz. vol. 212; p. 607.
- Ticket-cartridge and container. Pin-. M. O. Anthony. No. 1,152,471; Sept. 7; Gaz. vol. 218; p. 32.
- Ticket-case. P. Hano. No. 1,128,136; Feb. 9; Gaz. vol. 211; p. 557.
- Ticket-clip. J. E. Stewart and W. A. Russell. No. 1,151,061; Aug. 24; Gaz. vol. 217; p. 1133.
- Ticket collector, Commutation or multiple-ride. J. M. Johnson. No. 1,145,313; July 6; Gaz. vol. 216; p. 117.
- Ticket, Commutation-. R. Borgfeldt. No. 1,159,642; Nov. 9; Gaz. vol. 220; p. 464.
- Ticket-container. J. H. Kinzie. No. 1,155,737; Oct. 5; Gaz. vol. 219; p. 144.
- Ticket, Coupon railway-. W. J. Cannon and A. Hermany. No. 1,160,377; Nov. 16; Gaz. vol. 220; p. 776.
- Ticket for textile goods. E. A. Hirner. No. 1,146,254; July 13; Gaz. vol. 216; p. 468.
- Ticket-holder. G. A. Beattie. No. 1,134,501; Apr. 6; Gaz. vol. 213; p. 153.
- Ticket-holder. A. F. Bellinger. No. 1,134,988; Apr. 13; Gaz. vol. 213; p. 368.
- Ticket-holder. I. S. Downing. No. 1,137,846; May 4; Gaz. vol. 214; p. 43.
- Ticket-holder. N. A. and C. P. Neibaur. No. 1,125,373; Jan. 19; Gaz. vol. 210; p. 846.
- Ticket issuing and registering machine. W. L. Swift and E. L. Reller. No. 1,160,669; Nov. 16; Gaz. vol. 220; p. 882.
- Ticket-issuing machine. W. L. Sullivan. No. 1,145,818; July 6; Gaz. vol. 216; p. 295.
- Ticket-issuing machine, Railway-. C. Forth. No. 1,153,299; Sept. 14; Gaz. vol. 218; p. 367.
- Ticket, Labelling-. J. Forman. No. 1,165,497; Dec. 28; Gaz. vol. 221; p. 1090.
- Ticket machine, Pin-. H. G. Davis. No. 1,156,672; Oct. 12; Gaz. vol. 219; p. 495.
- Ticket or card exhibitor. G. H. Denio. No. 1,156,396; Oct. 12; Gaz. vol. 219; p. 398.
- Ticket, Pin-. M. O. Anthony. No. 1,140,935; May 25; Gaz. vol. 214; p. 1239.
- Ticket, Pin-. G. A. Buckley. No. 1,148,659; Aug. 3; Gaz. vol. 217; p. 63.
- Ticket, Pin-. W. G. Dunham. No. 1,152,612; Sept. 7; Gaz. vol. 218; p. 85.
- Ticket pin or stake. V. Fritz. No. 1,161,303; Nov. 23; Gaz. vol. 220; p. 1153.
- Ticket-rack and storage system for same. M. A. Skall. No. 1,141,274; June 1; Gaz. vol. 215; p. 65.
- Ticket, Railway-. J. D. Gibbs. No. 1,129,662; Feb. 23; Gaz. vol. 211; p. 1173.
- Ticket, Railway-. J. P. Larkin. No. 1,151,367; Aug. 24; Gaz. vol. 217; p. 1235.
- Ticket-recording device. B. F. Lewis. No. 1,163,422; Dec. 7; Gaz. vol. 221; p. 240.
- Ticket stamping and issuing machine. A. J. Tanner. No. 1,130,120; Mar. 2; Gaz. vol. 212; p. 97.
- Ticket-stapling machine. H. Weber. No. 1,159,447; Nov. 9; Gaz. vol. 220; p. 494.
- Ticket, Transfer-. W. J. Hughes. No. 1,161,312; Nov. 23; Gaz. vol. 220; p. 1156.
- Tide and wave power, System of utilizing. E. Farra. No. 1,147,082; July 20; Gaz. vol. 216; p. 777.
- Tide-motor. H. Monroe. No. 1,142,724; June 8; Gaz. vol. 215; p. 608.
- Tie: See—
- | | |
|---------------|-----------------------|
| Bag-tie. | Rail-tie. |
| Bale-tie. | Railway-tie. |
| Bar-tie. | Railway concrete tie. |
| Building-tie. | Railway cross-tie. |
| Cattle-tie. | Railway-rail tie. |
| Cement tie. | Rod-supporting tie. |
| Concrete tie. | Sack-tie. |
| Cross-tie. | Safety-tie. |
| Metallic tie. | Steel tie. |
| Package-tie. | Wire tie. |
- Tie. K. N. Cather. No. 1,149,247; Aug. 10; Gaz. vol. 217; p. 372.
- Tie. M. E. Chamberlain. No. 1,149,632; Aug. 10; Gaz. vol. 217; p. 514.
- Tie and rail-clamp. H. McConaughy. No. 1,132,198; Mar. 16; Gaz. vol. 212; p. 894.
- Tie and rail-fastener. H. Terava. No. 1,164,428; Dec. 14; Gaz. vol. 221; p. 637.
- Tie and rail-fastener, Combined. C. Russ. No. 1,129,548; Feb. 23; Gaz. vol. 211; p. 1134.
- Tie and rail-holder. J. H. Cox. No. 1,127,595; Feb. 9; Gaz. vol. 211; p. 366.
- Tie-bands, Coupling-shoe for. T. H. Haley. No. 1,128,244; Feb. 9; Gaz. vol. 211; p. 593.
- Tie-clasp. R. Kremenitz and F. Kaelber. No. 1,152,739; Sept. 7; Gaz. vol. 218; p. 132.
- Tie-clasp. J. L. Scheu. No. 1,139,585; May 18; Gaz. vol. 214; p. 728.
- Tie construction, Metallic railway-. W. H. Haws. No. 1,151,463; Aug. 24; Gaz. vol. 217; p. 1267.
- Tie-extractor. W. J. Waddell. No. 1,137,682; Apr. 27; Gaz. vol. 213; p. 1393.
- Tie-form. K. H. Rouse. No. 1,134,910; Apr. 6; Gaz. vol. 213; p. 295.
- Tie-gaining machine. G. C. Purdy and D. W. Edwards. No. 1,141,887; June 1; Gaz. vol. 215; p. 279.
- Tie-gaining machine. G. C. Purdy and J. H. Mansfield. No. 1,159,795; Nov. 9; Gaz. vol. 220; p. 520.
- Tie-handle. G. W. Furth. No. 1,141,790; June 1; Gaz. vol. 215; p. 247.
- Tie-joints, Forming. P. A. Dubus. No. 1,141,046; May 25; Gaz. vol. 214; p. 1276.
- Tie-plate. B. B. Betts. No. 1,155,989; Oct. 5; Gaz. vol. 219; p. 229.
- Tie-plate. B. B. Betts. No. 1,155,990; Oct. 5; Gaz. vol. 219; p. 230.
- Tie-plate. B. B. Betts. No. 1,155,991; Oct. 5; Gaz. vol. 219; p. 230.
- Tie-plate. L. O. Henggi. No. 1,136,333; Apr. 20; Gaz. vol. 213; p. 878.
- Tie-plate. J. L. Lynch. No. 1,125,854; Jan. 19; Gaz. vol. 210; p. 1015.
- Tie-plate. A. Morrison. No. 1,143,301; June 15; Gaz. vol. 215; p. 853.
- Tie-plate. M. J. Silberberg. No. 1,151,728; Aug. 31; Gaz. vol. 217; p. 1406.
- Tie-plate. M. Vitas. No. 1,133,898; Mar. 30; Gaz. vol. 212; p. 1594.
- Tie-plate and brace. B. M. Howell. No. 1,124,741; Jan. 12; Gaz. vol. 210; p. 584.
- Tie-plate and rail-anchor, Combination. F. H. Hansen and T. Thompson. No. 1,159,838; Nov. 9; Gaz. vol. 220; p. 535.
- Tie-plate and rail-antireeper. M. Schwindling. No. 1,160,331; Nov. 16; Gaz. vol. 220; p. 760.
- Tie-plate and rail-brace. J. M. Scott. No. 1,144,003; June 22; Gaz. vol. 215; p. 1120.
- Tie-plate and rail-fastener, Combination. A. Hosmer. No. 1,134,455; Apr. 6; Gaz. vol. 213; p. 136.
- Tie-spacing device. R. L. Cochrane. No. 1,163,627; Dec. 7; Gaz. vol. 221; p. 313.
- Tie-support. J. Gilheeny. No. 1,123,517; Jan. 5; Gaz. vol. 210; p. 109.
- Tie-support. H. Williams. No. 1,124,370; Jan. 12; Gaz. vol. 210; p. 451.
- Ties, Machine for adzing and boring. G. C. Purdy and D. W. Edwards. No. 1,141,886; June 1; Gaz. vol. 215; p. 279.
- Ties, Pressed-steel-cap rail carrier and clamp for. H. S. Gover. No. 1,128,599; Feb. 16; Gaz. vol. 211; p. 766.
- Ties, tie plates, rails, and rail-anchors, Lock for. C. A. Lind. No. 1,137,153; Apr. 27; Gaz. vol. 213; p. 1210.
- Tier. I. W. Clary. No. 1,165,320; Dec. 21; Gaz. vol. 221; p. 988.
- Tightening-link. J. J. Bukolt. No. 1,136,309; Apr. 20; Gaz. vol. 213; p. 870.
- Tile. B. Franklin. No. 1,155,559; Oct. 5; Gaz. vol. 219; p. 81.
- Tile. R. S. Rhoads. No. 1,145,214; July 6; Gaz. vol. 216; p. 83.
- Tile and the like, Roofing-. E. P. Elzey. No. 1,124,001; Jan. 5; Gaz. vol. 210; p. 272.
- Tile-coating machine. F. C. Ellison. No. 1,130,383; Mar. 2; Gaz. vol. 212; p. 188.
- Tile, conduits, or bricks, Machine for making clay. W. D. Rawlings. No. 1,157,724; Oct. 26; Gaz. vol. 219; p. 957.
- Tile cutting and delivering machine. C. A. Dorn. No. 1,162,284; Nov. 30; Gaz. vol. 220; p. 1541.
- Tile-cutting apparatus, Roof-. J. Pisetta. No. 1,130,331; Mar. 2; Gaz. vol. 212; p. 170.
- Tile for covering tubes. M. W. Sewall and D. S. Jacobus. No. 1,129,313; Feb. 23; Gaz. vol. 211; p. 1051.
- Tile for pavements, sidewalks and other like constructions. H. C. Seipp. No. 1,146,961; July 20; Gaz. vol. 216; p. 736.
- Tile for roofing, Metallic. F. M. Vogan. No. 1,125,414; Jan. 19; Gaz. vol. 210; p. 861.
- Tile-forming machine. H. W. Hellyar, E. H. Cochran, and H. E. Waggoner. No. 1,132,264; Mar. 16; Gaz. vol. 212; p. 919.
- Tile, Furnace-. E. C. Meier. No. 1,164,952; Dec. 21; Gaz. vol. 221; p. 861.
- Tile-glazing machine. H. Stommel. No. 1,163,117; Dec. 7; Gaz. vol. 221; p. 133.
- Tile, Interlocking. J. J. Funsten. No. 1,158,041; Oct. 26; Gaz. vol. 219; p. 1068.
- Tile, Irrigation-. L. H. Frink. No. 1,138,370; May 4; Gaz. vol. 214; p. 229.
- Tile-machine feeder. S. Miller. No. 1,137,776; May 4; Gaz. vol. 214; p. 19.
- Tile, Making. O. Metzner. No. 1,141,134; June 1; Gaz. vol. 215; p. 15.
- Tile-making machine. H. E. Jaeckel and G. O. Matter. No. 1,146,168; July 13; Gaz. vol. 216; p. 438.
- Tile-making machine. W. J. McCracken. No. 1,159,515; Nov. 9; Gaz. vol. 220; p. 417.
- Tile measuring, marking, and sorting machine. T. S. Wood. No. 1,156,337; Oct. 12; Gaz. vol. 219; p. 375.
- Tile molder, Drain-. O. Poulsen. No. 1,144,863; June 29; Gaz. vol. 215; p. 1447.
- Tile or block clamp, Hollow. F. A. Wiswell. No. 1,146,223; July 13; Gaz. vol. 216; p. 457.
- Tile or pipe, Machine for making. P. W. Parker. No. 1,142,616; June 8; Gaz. vol. 215; p. 573.

Alphabetical list of inventions—Continued.

- Tile, Silo-. J. V. Ayer and W. L. McCarel. No. 1,166,405; Dec. 28; Gaz. vol. 221; p. 1413.
- Tile structure and blocks therefor, Cylindrical hollow-. H. B. Naylor. No. 1,146,508; July 13; Gaz. vol. 216; p. 559.
- Tile structure, Hollow-. A. W. Dowe. No. 1,158,653; Nov. 2; Gaz. vol. 220; p. 86.
- Tile structure, Transparent. F. L. Keppler. No. 1,145,997; July 13; Gaz. vol. 216; p. 377.
- Tile structure, Transparent. F. L. Keppler. No. 1,165,417; Dec. 28; Gaz. vol. 221; p. 1062.
- Tiles, conduit-pipes, bricks, and like products. C. Westergard. No. 1,143,004; June 15; Gaz. vol. 215; p. 749.
- Tiles, &c., Machine for making cement drain-. G. Weiss. No. 1,142,864; June 15; Gaz. vol. 215; p. 698.
- Tiling implement. C. H. Fratt. No. 1,149,436; Aug. 10; Gaz. vol. 217; p. 442.
- Till, Check-. G. Huth. No. 1,131,381; Mar. 9; Gaz. vol. 212; p. 567.
- Till, Controlling and registering. E. Schoder and A. Sembach. No. 1,164,225; Dec. 14; Gaz. vol. 221; p. 565.
- Tilling-machine. F. B. Crane. No. 1,162,456; Nov. 30; Gaz. vol. 220; p. 1599.
- Tilling-machine. A. B. Harris. No. 1,133,956; Mar. 30; Gaz. vol. 212; p. 1611.
- Tilling-machines, Implement-holder for. W. C. Zelle. No. 1,130,364; Mar. 2; Gaz. vol. 212; p. 181.
- Timber and making same, Preserved. E. L. Powell. No. 1,151,039; Aug. 24; Gaz. vol. 217; p. 1127.
- Timber-carrying hook, Automatic-releasing. L. Gilchrist and C. Van Winkle. No. 1,129,664; Feb. 28; Gaz. vol. 211; p. 1174.
- Timber-dog driver. D. S. Wuescher. No. 1,163,301; Dec. 7; Gaz. vol. 221; p. 198.
- Timber, Fireproofing. G. B. Shipley. No. 1,163,271; Dec. 7; Gaz. vol. 221; p. 187.
- Timber, Impregnating. G. B. Shipley. No. 1,163,270; Dec. 7; Gaz. vol. 221; p. 187.
- Timber-jack. J. H. Barret. No. 1,134,581; Apr. 6; Gaz. vol. 213; p. 182.
- Timber, Preservative treatment of. W. D. Clark. No. 1,165,753; Dec. 28; Gaz. vol. 221; p. 1181.
- Timber-treating apparatus. J. H. Grow. No. 1,164,938; Dec. 21; Gaz. vol. 221; p. 856.
- Timbers, Apparatus for Impregnating. J. L. W. Neble. No. 1,132,025; Mar. 16; Gaz. vol. 212; p. 832.
- Time-alarm. S. Miyake. No. 1,163,942; Dec. 14; Gaz. vol. 221; p. 468.
- Time-check for oil-presses and other machines, Automatic. T. Bell. No. 1,139,251; May 11; Gaz. vol. 214; p. 575.
- Time-controlled apparatus. E. Flatow. No. 1,127,750; Feb. 9; Gaz. vol. 211; p. 420.
- Time-controlled device. C. F. Johnson. No. 1,162,171; Nov. 30; Gaz. vol. 220; p. 1502.
- Time-controlled device. S. W. and R. H. Pearce. No. 1,129,596; Feb. 23; Gaz. vol. 211; p. 1152.
- Time-controlled electrical contact mechanism. A. L. Sohm. No. 1,149,866; Aug. 10; Gaz. vol. 217; p. 597.
- Time-controlled mechanism. W. H. Greenleaf. No. 1,164,602; Dec. 14; Gaz. vol. 221; p. 696.
- Time-controlled mechanism. K. G. Hoover. No. 1,133,963; Mar. 30; Gaz. vol. 212; p. 1613.
- Time-controlled mechanism. E. C. Oliver. No. 1,162,390; Nov. 30; Gaz. vol. 220; p. 1576.
- Time-controlled operating mechanism, Self-contained. H. V. Coes. No. 1,161,618; Nov. 23; Gaz. vol. 220; p. 1262.
- Time-controlled switch. F. Leonard. No. 1,124,473; Jan. 12; Gaz. vol. 210; p. 489.
- Time-controlled switch. R. Murray. No. 1,161,068; Nov. 23; Gaz. vol. 220; p. 1066.
- Time-controlled thermostatic motor. E. S. Halsey. No. 1,150,185; Aug. 17; Gaz. vol. 217; p. 773.
- Time-controller. H. B. Post. No. 1,157,960; Oct. 26; Gaz. vol. 219; p. 1039.
- Time-controller, Electric-motor. C. I. Hall. No. 1,158,682; Nov. 2; Gaz. vol. 220; p. 96.
- Time-cost meter. J. T. Quigley. No. 1,139,718; May 18; Gaz. vol. 214; p. 777.
- Time-detector, Watchman's. E. E. Wadsworth. No. 1,140,859; May 25; Gaz. vol. 214; p. 1211.
- Time-indicating device. W. M. T. Besson. No. 1,159,162; Nov. 2; Gaz. vol. 220; p. 260.
- Time-indicator. C. H. Brown. No. 1,128,751; Feb. 16; Gaz. vol. 211; p. 817.
- Time-indicator. W. M. Jeffreys and W. H. Creahen. No. 1,131,244; Mar. 9; Gaz. vol. 212; p. 521.
- Time-lock indicator. R. P. Knoebel, Jr. No. 1,123,895; Jan. 5; Gaz. vol. 210; p. 237.
- Time indicator, Elapsed-. J. F. Mays. No. 1,160,110; Nov. 9; Gaz. vol. 220; p. 630.
- Time-lock. C. A. Miller. No. 1,164,378; Dec. 14; Gaz. vol. 221; p. 620.
- Time-lock attachment. H. C. Stockwell. No. 1,147,905; July 27; Gaz. vol. 216; p. 1092.
- Time-lock for workmen's time-recorders, Automatic. F. J. Mantel and F. W. Eaton. No. 1,164,736; Dec. 21; Gaz. vol. 221; p. 784.
- Time-meter. J. Del Valle. No. 1,128,557; Feb. 16; Gaz. vol. 211; p. 752.
- Time-movement regulator, Lever. J. J. Busenbenz. No. 1,144,026; June 22; Gaz. vol. 215; p. 1129.
- Time-reckoning device. W. G. Viall. No. 1,153,469; Sept. 14; Gaz. vol. 218; p. 430.
- Time-recorder. C. M. Crook. No. 1,143,364; June 15; Gaz. vol. 215; p. 876.
- Time-recorder. A. S. Cunningham. No. 1,143,040; June 15; Gaz. vol. 215; p. 761.
- Time-recorder. J. F. Engle. No. 1,151,516; Aug. 24; Gaz. vol. 217; p. 1287.
- Time-recorder. W. D. Hawley. No. 1,123,132; Jan. 5; Gaz. vol. 210; p. 317.
- Time-recorder and similar apparatus, Workman's. A. J. Jung. No. 1,155,660; Oct. 5; Gaz. vol. 219; p. 116.
- Time-recorder, Workman's. W. T. Geltz. No. 1,137,962; May 4; Gaz. vol. 214; p. 84.
- Time-recorders, Removable card for use in. J. W. Bryce. No. 1,146,998; July 20; Gaz. vol. 216; p. 749.
- Time-recording apparatus. A. C. Jackson. No. 1,132,659; Mar. 23; Gaz. vol. 212; p. 1112.
- Time-recording device. C. M. Crook. No. 1,143,363; June 15; Gaz. vol. 215; p. 876.
- Time-recording lock. E. S. Phelps. No. 1,155,678; Oct. 5; Gaz. vol. 219; p. 123.
- Time-recording lock. E. S. Phelps. No. 1,155,679; Oct. 5; Gaz. vol. 219; p. 123.
- Time-register, Watchman's. C. H. Jenkins. No. 1,135,529; Apr. 13; Gaz. vol. 213; p. 555.
- Time-registers, Pedometer attachment for watchmen's portable. C. H. Jenkins. No. 1,131,062; Mar. 9; Gaz. vol. 212; p. 458.
- Time-registering systems, Key-cabinet for watchmen's. C. H. Jenkins. No. 1,126,019; Jan. 26; Gaz. vol. 210; p. 1107.
- Time-service-controlled mechanism. W. H. Thompson. No. 1,160,115; Nov. 9; Gaz. vol. 220; p. 632.
- Time-switch. J. M. Andersen. No. 1,156,126; Oct. 12; Gaz. vol. 219; p. 305.
- Time-switch. A. W. Lindell. No. 1,142,338; June 8; Gaz. vol. 215; p. 477.
- Time-switch. T. J. Murphy. No. 1,152,433; Sept. 7; Gaz. vol. 218; p. 18.
- Time-switch. H. C. Nutting. No. 1,135,839; Apr. 13; Gaz. vol. 213; p. 665.
- Time-switch, Automatic. M. H. Avram. No. 1,151,848; Aug. 31; Gaz. vol. 217; p. 1450.
- Time-switch, Electric. A. W. Voedsch. No. 1,143,869; June 22; Gaz. vol. 215; p. 1073.
- Time-switch, Electrically-operated. J. W. Pennewill and M. R. Buchanan. No. 1,138,406; May 4; Gaz. vol. 214; p. 242.
- Time-switch, Pneumatic. G. H. Parsons. No. 1,139,066; May 11; Gaz. vol. 214; p. 512.
- Timer. F. C. Hersee. No. 1,128,978; Feb. 16; Gaz. vol. 211; p. 900.
- Timer. F. C. Hersee and L. W. Lombard. No. 1,137,713; Apr. 27; Gaz. vol. 213; p. 1403.
- Timer and distributor, Combined. A. L. Strahle. No. 1,156,255; Oct. 12; Gaz. vol. 219; p. 347.
- Timer, Interval-. W. E. Porter. No. 1,153,282; Oct. 26; Gaz. vol. 219; p. 1152.
- Timer or current-interrupter. C. F. Ketterling. No. 1,163,092; Dec. 7; Gaz. vol. 221; p. 124.
- Timing and ignition device. W. W. Walker. No. 1,142,212; June 8; Gaz. vol. 215; p. 432.
- Timing apparatus. A. Pache. No. 1,163,362; Dec. 7; Gaz. vol. 221; p. 220.
- Timing device. R. R. Spears. No. 1,124,543; Jan. 12; Gaz. vol. 210; p. 513.
- Timing device, Automatic. A. L. Fish. No. 1,146,320; July 13; Gaz. vol. 216; p. 490.
- Timing device for pigeons. J. H. Bell. No. 1,130,247; Mar. 2; Gaz. vol. 212; p. 140.
- Timing mechanism. J. W. Gibney. No. 1,150,514; Aug. 17; Gaz. vol. 217; p. 887.
- Timing mechanism. F. M. Leavitt. No. 1,134,391; Apr. 6; Gaz. vol. 213; p. 112.
- Timepiece. J. E. Dawsey. No. 1,153,038; Sept. 7; Gaz. vol. 218; p. 240.
- Timepiece. W. H. Tonks. No. 1,137,245; Apr. 27; Gaz. vol. 213; p. 1243.
- Timepiece attachment, Automobile. F. M. Dale. No. 1,153,609; Sept. 14; Gaz. vol. 218; p. 480.
- Timepiece striking attachment. O. E. Giset. No. 1,160,065; Nov. 9; Gaz. vol. 220; p. 613.
- Timepieces, Positive driving mechanism for the hands of. L. C. Collins. No. 1,136,866; Apr. 20; Gaz. vol. 213; p. 1068.
- Tin, Electrolytic refining of. R. L. Whitehead. No. 1,157,830; Oct. 26; Gaz. vol. 219; p. 993.
- Tin, Electrolytically refining. G. Michaud and E. Delasson. No. 1,124,315; Jan. 12; Gaz. vol. 210; p. 431.
- Tin or tin compounds from pyritic or other tin ores, tin-ore concentrates, tin-waste, tin-plate waste, stanniferous slag, tin-slag, &c., Production of. J. Rueb. No. 1,124,174; Jan. 5; Gaz. vol. 210; p. 332.
- Tin-plate-cleaning apparatus. W. G. Moore. No. 1,138,134; May 4; Gaz. vol. 214; p. 146.
- Tin-plate-cleaning apparatus. C. M. Reynard. No. 1,136,270; Apr. 20; Gaz. vol. 213; p. 856.
- Tin-plate for canned provisions, Treating. K. Miyazaki. No. 1,148,851; Aug. 3; Gaz. vol. 217; p. 131.

Alphabetical list of inventions—Continued.

- Tin-plate-shipping package or holder. F. Rudolph and E. W. Carnes. No. 1,150,455; Aug. 17; Gaz. vol. 217; p. 866.
- Tin-scraper. Detinning. K. Goldschmidt and J. Weber. No. 1,158,128; Oct. 26; Gaz. vol. 219; p. 1099.
- Tin-sheet cleaning and polishing machine. S. E. Diescher. No. 1,155,711; Oct. 5; Gaz. vol. 219; p. 134.
- Tin-sheet cleaning and polishing machine. W. L. McKean. No. 1,155,671; Oct. 5; Gaz. vol. 219; p. 120.
- Tins and decanting liquids, Attachment for piercing. T. M. Harrison. No. 1,164,645; Dec. 21; Gaz. vol. 221; p. 753.
- Tinned plates, Means or apparatus for cleaning. M. L. Jones. No. 1,162,070; Nov. 30; Gaz. vol. 220; p. 1466.
- Tipping-machine. E. W. Anderegg. No. 1,150,324; Aug. 17; Gaz. vol. 217; p. 822.
- Tire. H. Behm and J. Vene. No. 1,152,779; Sept. 7; Gaz. vol. 218; p. 146.
- Tire. P. Bernstein. No. 1,163,311; Dec. 7; Gaz. vol. 221; p. 202.
- Tire. J. A. Borland. No. 1,147,600; July 20; Gaz. vol. 216; p. 959.
- Tire. F. S. Bryant. No. 1,139,338; May 11; Gaz. vol. 214; p. 605.
- Tire. F. Dexter. No. 1,141,620; June 1; Gaz. vol. 215; p. 190.
- Tire. W. Drabold and A. P. Mott. No. 1,137,124; Apr. 27; Gaz. vol. 213; p. 1199.
- Tire. E. Favary. No. 1,136,662; Apr. 20; Gaz. vol. 213; p. 997.
- Tire. C. C. Ferry. No. 1,131,500; Mar. 9; Gaz. vol. 212; p. 610.
- Tire. F. F. Green. No. 1,162,350; Nov. 30; Gaz. vol. 220; p. 1564.
- Tire. J. E. Hale. No. 1,145,063; July 6; Gaz. vol. 216; p. 32.
- Tire. C. A. Hardy. No. 1,130,273; Mar. 2; Gaz. vol. 212; p. 150.
- Tire. W. D. Harris. No. 1,163,338; Dec. 7; Gaz. vol. 221; p. 212.
- Tire. J. H. Harvey. No. 1,166,368; Dec. 28; Gaz. vol. 221; p. 1400.
- Tire. E. R. Hewitt. No. 1,135,183; Apr. 13; Gaz. vol. 213; p. 436.
- Tire. W. M. Hill. No. 1,159,026; Nov. 2; Gaz. vol. 220; p. 212.
- Tire. T. N. Jordan. No. 1,165,512; Dec. 28; Gaz. vol. 221; p. 1094.
- Tire. A. W. Livingston. No. 1,127,038; Feb. 2; Gaz. vol. 211; p. 133.
- Tire. A. W. Livingston. No. 1,127,039; Feb. 2; Gaz. vol. 211; p. 133.
- Tire. C. Markson. No. 1,136,546; Apr. 20; Gaz. vol. 213; p. 955.
- Tire. J. E. McCoughtry. No. 1,155,255; Sept. 28; Gaz. vol. 218; p. 1107.
- Tire. W. D. McNaull. No. 1,147,032; July 20; Gaz. vol. 216; p. 761.
- Tire. O. Michaud. No. 1,149,935; Aug. 10; Gaz. vol. 217; p. 622.
- Tire. T. Midgley, Sr. No. 1,159,244; Nov. 2; Gaz. vol. 220; p. 291.
- Tire. W. H. Nance. No. 1,127,077; Feb. 2; Gaz. vol. 211; p. 145.
- Tire. C. L. and F. K. Neely. No. 1,135,836; Apr. 13; Gaz. vol. 213; p. 664.
- Tire. G. H. Quennard. No. 1,143,781; June 22; Gaz. vol. 215; p. 1042.
- Tire. J. A. Rabblitt. No. 1,138,246; May 4; Gaz. vol. 214; p. 183.
- Tire. J. N. Ratterree. No. 1,138,315; May 4; Gaz. vol. 214; p. 208.
- Tire. C. E. Robinson, G. W. Young, and J. B. F. Showalter. No. 1,148,408; July 27; Gaz. vol. 216; p. 1271.
- Tire. H. C. Seipp. No. 1,133,066; Mar. 23; Gaz. vol. 212; p. 1261.
- Tire. W. J. Spencer. No. 1,134,291; Apr. 6; Gaz. vol. 213; p. 76.
- Tire. W. F. Stark. No. 1,160,007; Nov. 9; Gaz. vol. 220; p. 594.
- Tire. C. B. Steele. No. 1,151,133; Aug. 24; Gaz. vol. 217; p. 157.
- Tire. R. E. Sturman. No. 1,143,461; June 15; Gaz. vol. 215; p. 909.
- Tire. P. C. Traver. No. 1,137,930; May 4; Gaz. vol. 214; p. 72.
- Tire. W. E. Travers. No. 1,162,321; Nov. 30; Gaz. vol. 220; p. 1554.
- Tire. C. Varnell. No. 1,138,027; May 4; Gaz. vol. 214; p. 105.
- Tire. I. J. Webster. No. 1,166,026; Dec. 28; Gaz. vol. 221; p. 1274.
- Tire. B. J. Zobel. No. 1,131,809; Mar. 16; Gaz. vol. 212; p. 754.
- Tire-alarm. H. S. Christophersen. No. 1,148,357; July 27; Gaz. vol. 216; p. 1255.
- Tire alarm, Automobile and other wheel. E. S. Phelps. No. 1,138,407; May 4; Gaz. vol. 214; p. 242.
- Tire and rim, Automobile. J. S. Lyons. No. 1,138,129; May 4; Gaz. vol. 214; p. 145.
- Tire and rim, Demountable. M. C. Schweinert. No. 1,164,963; Dec. 21; Gaz. vol. 221; p. 865.
- Tire, Apparatus for centralizing the tread upon the carcass of a. H. J. Hoyt. No. 1,162,360; Nov. 30; Gaz. vol. 220; p. 1567.
- Tire-armor. J. H. Anderson. No. 1,130,562; Mar. 2; Gaz. vol. 212; p. 253.
- Tire-armor. G. W. Childers and H. D. Borst. No. 1,136,774; Apr. 20; Gaz. vol. 213; p. 1036.
- Tire-armor. P. A. Christenson. No. 1,153,194; Sept. 14; Gaz. vol. 218; p. 331.
- Tire-armor. J. Clatt. No. 1,133,099; Mar. 23; Gaz. vol. 212; p. 1273.
- Tire-armor. J. W. Cloninger. No. 1,148,576; Aug. 3; Gaz. vol. 217; p. 34.
- Tire-armor. R. W. David. No. 1,148,504; Aug. 3; Gaz. vol. 217; p. 7.
- Tire-armor. E. J. Dugan. No. 1,127,744; Feb. 9; Gaz. vol. 211; p. 418.
- Tire-armor. E. Farr. No. 1,163,518; Dec. 7; Gaz. vol. 221; p. 274.
- Tire-armor. G. W. Hardy. No. 1,138,559; May 4; Gaz. vol. 214; p. 292.
- Tire-armor. S. Hunter. No. 1,163,408; Dec. 7; Gaz. vol. 221; p. 235.
- Tire-armor. T. P. Marcotte. No. 1,125,857; Jan. 19; Gaz. vol. 210; p. 1016.
- Tire-armor, Antiskidding. H. W. White and A. T. Sheldon. No. 1,146,221; July 13; Gaz. vol. 216; p. 450.
- Tire armor, Automobile. J. F. Gelsendorfer. No. 1,127,878; Feb. 9; Gaz. vol. 211; p. 467.
- Tire-armor, Non-skid. F. Grohal. No. 1,139,274; May 11; Gaz. vol. 214; p. 583.
- Tire armor, Rubber. F. H. Talbot. No. 1,138,999; May 11; Gaz. vol. 214; p. 488.
- Tire-armor, Vehicle. H. Sclar. No. 1,144,796; June 29; Gaz. vol. 215; p. 1424.
- Tire, Armored. N. Benjamin. No. 1,164,978; Dec. 21; Gaz. vol. 221; p. 871.
- Tire, Armored. C. W. Levalley. No. 1,124,753; Jan. 12; Gaz. vol. 210; p. 588.
- Tire, Armored. W. F. Macklin. No. 1,165,888; Dec. 28; Gaz. vol. 221; p. 1226.
- Tire, Armored pneumatic. W. R. Morrison. No. 1,130,995; Mar. 9; Gaz. vol. 212; p. 435.
- Tire, Armored pneumatic. C. Moss. No. 1,161,507; Nov. 23; Gaz. vol. 220; p. 1224.
- Tire attachment. O. E. Graves. No. 1,145,305; July 6; Gaz. vol. 216; p. 114.
- Tire attachment, Auxillary. F. J. Gibbs. No. 1,137,963; May 4; Gaz. vol. 214; p. 85.
- Tire attachment for vehicle-wheels, Resilient. P. F. Dundon. No. 1,126,424; Jan. 26; Gaz. vol. 210; p. 1253.
- Tire, Auto. J. A. Read. No. 1,152,906; Sept. 7; Gaz. vol. 218; p. 194.
- Tire, Automatic air and elastic cushion. C. W. Barrett. No. 1,135,425; Apr. 13; Gaz. vol. 213; p. 519.
- Tire, Automobile. J. T. Baker. No. 1,146,747; July 13; Gaz. vol. 216; p. 640.
- Tire, Automobile. W. E. Copithorn. No. 1,136,892; Apr. 20; Gaz. vol. 213; p. 1078.
- Tire, Automobile. T. A. Hall. No. 1,140,591; May 25; Gaz. vol. 214; p. 1118.
- Tire, Automobile. F. S. Ingoldsby. No. 1,149,833; Aug. 10; Gaz. vol. 217; p. 585.
- Tire, Automobile. R. L. Lynch. No. 1,164,946; Dec. 21; Gaz. vol. 221; p. 859.
- Tire, Automobile. E. J. Mitchell. No. 1,149,459; Aug. 10; Gaz. vol. 217; p. 449.
- Tire, Automobile. W. M. Peabody. No. 1,149,782; Aug. 10; Gaz. vol. 217; p. 566.
- Tire, Automobile. M. Perez. No. 1,152,902; Sept. 7; Gaz. vol. 218; p. 192.
- Tire, Automobile. T. H. Young. No. 1,146,381; July 13; Gaz. vol. 216; p. 512.
- Tire-bandage-wrapping machine. R. G. Rossman. No. 1,165,807; Dec. 28; Gaz. vol. 221; p. 1199.
- Tire-bead-wrapping machine, Auto. F. W. Kremer. No. 1,132,359; Mar. 16; Gaz. vol. 212; p. 953.
- Tire-bolting appliance. S. N. Wheatley. No. 1,165,476; Dec. 28; Gaz. vol. 221; p. 1082.
- Tire-bolting machine. S. E. Crim. No. 1,131,476; Mar. 9; Gaz. vol. 212; p. 601.
- Tire-bolting machine. B. F. McCullough. No. 1,138,130; May 4; Gaz. vol. 214; p. 145.
- Tire-builder's tool. D. A. Wilcox. No. 1,162,425; Nov. 30; Gaz. vol. 220; p. 1588.
- Tire-building machine. W. H. Hermann. No. 1,159,840; Nov. 9; Gaz. vol. 220; p. 536.
- Tire-building machine. T. Midgley. No. 1,161,947; Nov. 30; Gaz. vol. 220; p. 1424.
- Tire-building machine. T. Midgley. No. 1,161,948; Nov. 30; Gaz. vol. 220; p. 1424.
- Tire-building machine. T. Midgley. No. 1,161,949; Nov. 30; Gaz. vol. 220; p. 1425.
- Tire-building machine. J. E. Perrault. No. 1,166,250; Dec. 28; Gaz. vol. 221; p. 1358.
- Tire-building machines, Spring-finger tool for. W. Kearns. No. 1,162,072; Nov. 30; Gaz. vol. 220; p. 1467.
- Tire-carrier. C. Crawford. No. 1,160,141; Nov. 16; Gaz. vol. 220; p. 695.

Alphabetical list of inventions—Continued.

- Tire-carrier. T. I. Duffy. No. 1,152,013; Aug. 31; Gaz. vol. 217; p. 1505.
- Tire-carrier. A. Harnishfeger. No. 1,141,185; June 1; Gaz. vol. 215; p. 33.
- Tire-case. W. S. Heath. No. 1,153,305; Sept. 14; Gaz. vol. 218; p. 369.
- Tire-casing. W. G. Morris. No. 1,142,905; June 15; Gaz. vol. 215; p. 713.
- Tire-casing mold. Pneumatic. A. W. Finlayson. No. 1,132,250; Mar. 16; Gaz. vol. 212; p. 915.
- Tire casing. Pneumatic. E. H. Jones. No. 1,133,153; Mar. 23; Gaz. vol. 212; p. 1293.
- Tire-casing repair-tool. C. Tingle. No. 1,148,552; Aug. 3; Gaz. vol. 217; p. 24.
- Tire casings. Apparatus for wrapping pneumatic. T. Midgley. No. 1,161,946; Nov. 30; Gaz. vol. 220; p. 1423.
- Tire casings. Core for manufacture of pneumatic. P. E. Welton. No. 1,144,671; June 29; Gaz. vol. 215; p. 1379.
- Tire casings. Core for manufacture of pneumatic. P. E. Welton. No. 1,156,570; Oct. 12; Gaz. vol. 219; p. 459.
- Tire-chain. L. W. Claska. No. 1,165,153; Dec. 21; Gaz. vol. 221; p. 933.
- Tire-chain. W. P. Hammond. No. 1,155,723; Oct. 5; Gaz. vol. 219; p. 139.
- Tire clamp. Pneumatic. M. C. Schweinert and H. P. Kraft. No. 1,163,695; Dec. 14; Gaz. vol. 221; p. 382.
- Tire-coating apparatus. D. Heggie. No. 1,147,723; July 27; Gaz. vol. 216; p. 1028.
- Tire construction. W. D. Trigale. No. 1,140,778; May 25; Gaz. vol. 214; p. 1180.
- Tire-cooling apparatus. Automobile. C. P. Byrnes. No. 1,159,894; Nov. 9; Gaz. vol. 220; p. 555.
- Tire-core. M. Bracey. No. 1,140,242; May 18; Gaz. vol. 214; p. 960.
- Tire-core. L. J. Frederickson. No. 1,160,272; Nov. 16; Gaz. vol. 220; p. 740.
- Tire-core. E. E. Tannar. No. 1,157,263; Oct. 19; Gaz. vol. 219; p. 734.
- Tire-cover. P. Peirce. No. 1,131,077; Mar. 9; Gaz. vol. 212; p. 463.
- Tire cover. Wheel. V. T. Kellar. No. 1,134,748; Apr. 6; Gaz. vol. 213; p. 243.
- Tire-covers. Making. J. T. Johnson and F. G. Mason. No. 1,142,042; June 8; Gaz. vol. 215; p. 372.
- Tire-covering. Protective. A. J. Moonen. No. 1,164,545; Dec. 14; Gaz. vol. 221; p. 678.
- Tire, Cushion-. C. L. and H. C. Beckham. No. 1,166,314; Dec. 28; Gaz. vol. 221; p. 1381.
- Tire, Cushion-. H. E. Edwards. No. 1,149,640; Aug. 10; Gaz. vol. 217; p. 517.
- Tire, Cushion-. H. N. Heilman. No. 1,136,009; Apr. 20; Gaz. vol. 213; p. 766.
- Tire, Cushion-. A. Nelson. No. 1,156,802; Oct. 12; Gaz. vol. 219; p. 538.
- Tire, Cushion-. R. Scheliga. No. 1,148,993; Aug. 3; Gaz. vol. 217; p. 180.
- Tire, Cushion-. H. E. Schliebs. No. 1,147,977; July 27; Gaz. vol. 216; p. 1118.
- Tire, Cushion-. A. Schick. No. 1,132,798; Mar. 23; Gaz. vol. 212; p. 1163.
- Tire, Cushion-. W. Shimon. No. 1,159,538; Nov. 9; Gaz. vol. 220; p. 425.
- Tire-cushion. A. M. Livelsberger. No. 1,166,065; Dec. 28; Gaz. vol. 221; p. 1287.
- Tire-cushioning device. E. Favary. No. 1,136,326; Apr. 20; Gaz. vol. 213; p. 876.
- Tire-deflator. H. L. Perryman. No. 1,145,210; July 6; Gaz. vol. 216; p. 81.
- Tire-deflating tool. W. J. Faulkner. No. 1,126,743; Feb. 2; Gaz. vol. 211; p. 28.
- Tire-deflating tool. W. C. Gunnell. No. 1,155,919; Oct. 5; Gaz. vol. 219; p. 207.
- Tire, Demountable. J. H., Jr., and J. H. Coffey. No. 1,162,979; Dec. 7; Gaz. vol. 221; p. 85.
- Tire demountable rim. Vehicle. T. Midgley. No. 1,162,379; Nov. 30; Gaz. vol. 220; p. 1572.
- Tire, Detachable. L. B. Bernheim. No. 1,145,741; July 6; Gaz. vol. 216; p. 268.
- Tire, Elastic. P. W. Pratt. No. 1,162,188; Nov. 30; Gaz. vol. 220; p. 1507.
- Tire, Elastic vehicle. T. Midgley. No. 1,152,830; Sept. 7; Gaz. vol. 218; p. 166.
- Tire fabric. H. K. Raymond. No. 1,123,375; Jan. 5; Gaz. vol. 210; p. 61.
- Tire-fastening means. J. W. and G. F. Burgess. No. 1,134,313; Apr. 6; Gaz. vol. 213; p. 84.
- Tire-filler. H. J. S. Keim. No. 1,164,318; Sept. 21; Gaz. vol. 218; p. 759.
- Tire-filler. W. N. Oursler. No. 1,137,888; May 4; Gaz. vol. 214; p. 58.
- Tire-filler mold. H. J. Hardie. No. 1,139,276; May 11; Gaz. vol. 214; p. 534.
- Tire-filling composition. E. Oliver. No. 1,123,787; Jan. 5; Gaz. vol. 210; p. 202.
- Tire for motor-driven vehicles. J. D. Garlick. No. 1,161,470; Nov. 23; Gaz. vol. 220; p. 1212.
- Tire for road-vehicles. Pneumatic. E. R. Devereux. No. 1,133,938; Mar. 30; Gaz. vol. 212; p. 1606.
- Tire for road-vehicles. Resilient. W. H. Carmont. No. 1,154,484; Sept. 21; Gaz. vol. 218; p. 816.
- Tire for vehicle-wheels. J. J. Marsula. No. 1,147,111; July 20; Gaz. vol. 216; p. 787.
- Tire for vehicle-wheels. Elastic. L. T. Petersen. No. 1,152,756; Sept. 7; Gaz. vol. 218; p. 138.
- Tire for vehicle-wheels. Metal. E. Schneider. No. 1,151,905; Aug. 31; Gaz. vol. 217; p. 1469.
- Tire for vehicle-wheels. Supplemental. C. Hastings. No. 1,127,239; Feb. 2; Gaz. vol. 211; p. 203.
- Tire for vehicles. Resilient. C. E. Beard. No. 1,131,313; Mar. 9; Gaz. vol. 212; p. 545.
- Tire for wheels. Elastic. C. H. Genth. No. 1,159,760; Nov. 9; Gaz. vol. 220; p. 507.
- Tire-forming core. F. Coleman. No. 1,131,332; Mar. 9; Gaz. vol. 212; p. 551.
- Tire-forming material. J. T. Lister. No. 1,147,253; July 20; Gaz. vol. 216; p. 838.
- Tire-forming strips. Making. J. T. Lister. No. 1,147,252; July 20; Gaz. vol. 216; p. 837.
- Tire-gage. Maximum-pressure safety inflating. S. P. Noe. No. 1,137,521; Apr. 27; Gaz. vol. 213; p. 1341.
- Tire gage. Pneumatic. R. C. Sibley. No. 1,156,862; Oct. 12; Gaz. vol. 219; p. 562.
- Tire galter. Pneumatic. J. T. McGuire. No. 1,137,876; May 4; Gaz. vol. 214; p. 53.
- Tire-grip. O. Bahis. No. 1,145,876; July 13; Gaz. vol. 216; p. 335.
- Tire-grip. W. B. Lashar. No. 1,163,620; Dec. 7; Gaz. vol. 221; p. 310.
- Tire-grip. Chain. W. B. Lashar. No. 1,127,458; Feb. 9; Gaz. vol. 211; p. 319.
- Tire-grip. Chain. W. B. Lashar. No. 1,163,619; Dec. 7; Gaz. vol. 221; p. 300.
- Tire grip. Wheel-. G. A. Lyon. No. 1,139,304; May 11; Gaz. vol. 214; p. 592.
- Tire-holder. M. H. Flynn. No. 1,146,417; July 13; Gaz. vol. 216; p. 524.
- Tire-holder. W. R. Green. No. 1,127,432; Feb. 9; Gaz. vol. 211; p. 309.
- Tire-holder. C. F. Hess. No. 1,155,488; Oct. 5; Gaz. vol. 219; p. 58.
- Tire-holder. C. F. Hess. No. 1,165,777; Dec. 28; Gaz. vol. 221; p. 1188.
- Tire-holder. F. C. Miller. No. 1,136,547; Apr. 20; Gaz. vol. 213; p. 956.
- Tire-holder. F. C. Miller. No. 1,150,692; Aug. 17; Gaz. vol. 217; p. 950.
- Tire-holder. C. V. Viol. No. 1,149,606; Aug. 10; Gaz. vol. 217; p. 501.
- Tire holder and lock. H. W. Oster. No. 1,132,486; Mar. 16; Gaz. vol. 212; p. 999.
- Tire-holding device. Vehicle. F. F. Phillips. No. 1,137,350; Apr. 27; Gaz. vol. 213; p. 1282.
- Tire-holding rim for wheels. H. L. Hostrman. No. 1,163,151; Dec. 7; Gaz. vol. 221; p. 145.
- Tire-holding ring. Detachable. W. N. Booth. No. 1,162,217; Nov. 30; Gaz. vol. 220; p. 1517.
- Tire-inflater. J. H. Pearson. No. 1,165,282; Dec. 21; Gaz. vol. 221; p. 976.
- Tire-inflating device. T. Bayly. No. 1,165,057; Dec. 21; Gaz. vol. 221; p. 897.
- Tire-inflating means. Pneumatic. F. J. Cleaver. No. 1,163,219; Dec. 7; Gaz. vol. 221; p. 169.
- Tire-inflating means. Pneumatic. W. J. Drew. No. 1,134,186; Apr. 6; Gaz. vol. 213; p. 37.
- Tire, Inner. G. V. Krichbaum. No. 1,137,064; Apr. 27; Gaz. vol. 213; p. 1177.
- Tire inner tube for automobiles. G. Kush. No. 1,125,129; Jan. 19; Gaz. vol. 210; p. 757.
- Tire inner tube. Pneumatic. J. J. Voorhees. No. 1,155,775; Oct. 5; Gaz. vol. 219; p. 156.
- Tire-lining. L. P. Deslauriers. No. 1,141,697; June 1; Gaz. vol. 215; p. 217.
- Tire-making machine. A. H. Harris. No. 1,160,075; Nov. 9; Gaz. vol. 220; p. 617.
- Tire-making machine. J. Koch and J. F. Zimmerman. No. 1,158,506; Nov. 2; Gaz. vol. 220; p. 34.
- Tire-making machine. T. J. Whalen. No. 1,131,760; Mar. 16; Gaz. vol. 212; p. 735.
- Tire-making machines. Fabric-tension governor for. J. R. Gammeter. No. 1,124,412; Jan. 12; Gaz. vol. 210; p. 465.
- Tire-marking tool. Wheel-. J. M. Frazer. No. 1,143,821; June 22; Gaz. vol. 215; p. 1056.
- Tire-mender tool. J. A. Anderson. No. 1,141,082; May 25; Gaz. vol. 214; p. 1287.
- Tire, Metallic resilient. A. W. Raettig. No. 1,143,995; June 22; Gaz. vol. 215; p. 1117.
- Tire-mold. G. J. Paynter. No. 1,159,792; Nov. 9; Gaz. vol. 220; p. 518.
- Tire-mold. W. A. Robbins. No. 1,156,180; Oct. 12; Gaz. vol. 219; p. 323.
- Tire-mold core. J. H. and J. H. Coffey, Jr. No. 1,154,843; Sept. 28; Gaz. vol. 218; p. 967.
- Tire-mounting. E. K. Baker. No. 1,155,396; Oct. 5; Gaz. vol. 219; p. 25.
- Tire mounting. Pneumatic. E. K. Baker. No. 1,155,394; Oct. 5; Gaz. vol. 219; p. 24.
- Tire mounting. Pneumatic. C. G. Hawley and E. K. Baker. No. 1,142,516; June 8; Gaz. vol. 215; p. 541.
- Tire mounting. Pneumatic. C. G. Hawley and E. K. Baker. No. 1,155,417; Oct. 5; Gaz. vol. 219; p. 33.

Alphabetical list of inventions—Continued.

- Tire, Multiple-chamber pneumatic. J. W. Turner. No. 1,154,817; Sept. 28; Gaz. vol. 218; p. 958.
- Tire, Non-puncturable. H. and P. E. Bailey. No. 1,148,427; July 27; Gaz. vol. 216; p. 1278.
- Tire or shoe holder for automobiles. F. W. Ehrlich. No. 1,155,053; Sept. 28; Gaz. vol. 218; p. 1039.
- Tire-patch. R. W. Wheeler. No. 1,159,143; Nov. 2; Gaz. vol. 220; p. 253.
- Tire-patch for inner tubes. W. W. Major. No. 1,128,256; Feb. 9; Gaz. vol. 211; p. 598.
- Tire-plug. L. V. Rood. No. 1,143,141; June 15; Gaz. vol. 215; p. 796.
- Tire, Pneumatic. A. M. Allen. No. 1,134,660; Apr. 6; Gaz. vol. 213; p. 211.
- Tire, Pneumatic. F. Bain. No. 1,132,998; Mar. 23; Gaz. vol. 212; p. 1237.
- Tire, Pneumatic. W. H. Burritt. No. 1,162,749; Dec. 7; Gaz. vol. 221; p. 6.
- Tire, Pneumatic. J. H. Clune. No. 1,124,705; Jan. 12; Gaz. vol. 210; p. 572.
- Tire, Pneumatic. M. A. Dees. No. 1,144,959; June 29; Gaz. vol. 215; p. 1478.
- Tire, Pneumatic. H. S. Dew and W. H. Minton. No. 1,154,848; Sept. 28; Gaz. vol. 218; p. 968.
- Tire, Pneumatic. H. B. Gillette. No. 1,141,537; June 1; Gaz. vol. 215; p. 161.
- Tire, Pneumatic. H. B. Gillette. No. 1,141,538; June 1; Gaz. vol. 215; p. 161.
- Tire, Pneumatic. H. Jancovich. No. 1,164,190; Dec. 14; Gaz. vol. 221; p. 554.
- Tire, Pneumatic. H. O. Johnson. No. 1,153,227; Oct. 26; Gaz. vol. 219; p. 1132.
- Tire, Pneumatic. A. C. Mather. No. 1,132,788; Mar. 23; Gaz. vol. 212; p. 1160.
- Tire, Pneumatic. C. E. McClay. No. 1,160,424; Nov. 16; Gaz. vol. 220; p. 793.
- Tire, Pneumatic. J. W. Moakler. No. 1,160,310; Nov. 16; Gaz. vol. 220; p. 754.
- Tire, Pneumatic. W. S. Mummary. No. 1,151,604; Aug. 31; Gaz. vol. 217; p. 1365.
- Tire, Pneumatic. A. L. Pearce. No. 1,159,864; Nov. 9; Gaz. vol. 220; p. 545.
- Tire, Pneumatic. C. D. Seeberger. No. 1,134,701; Apr. 6; Gaz. vol. 213; p. 226.
- Tire, Pneumatic. R. S. Stratton. No. 1,139,597; May 18; Gaz. vol. 214; p. 732.
- Tire, Pneumatic. W. D. Trigalaet. No. 1,140,777; May 25; Gaz. vol. 214; p. 1180.
- Tire, Pneumatic. I. J. Webster. No. 1,149,007; Aug. 3; Gaz. vol. 217; p. 185.
- Tire, Pneumatic. I. J. Webster. No. 1,149,008; Aug. 3; Gaz. vol. 217; p. 186.
- Tire, Pneumatic. I. J. Webster. No. 1,158,604; Nov. 2; Gaz. vol. 220; p. 69.
- Tire, Pneumatic. I. J. Webster. No. 1,162,671; Nov. 30; Gaz. vol. 220; p. 1669.
- Tire, Pneumatic vehicle. N. J. Flint. No. 1,128,304; Feb. 16; Gaz. vol. 211; p. 606.
- Tire-pressure-drop alarm. F. P. Freeman. No. 1,144,834; June 29; Gaz. vol. 215; p. 1437.
- Tire-pressure gage. R. A. Campbell. No. 1,129,450; Feb. 23; Gaz. vol. 211; p. 1100.
- Tire-pressure gage. R. A. Campbell. No. 1,153,026; Sept. 7; Gaz. vol. 218; p. 236.
- Tire-protector. G. L. Dillard and W. Johns. No. 1,153,042; Sept. 7; Gaz. vol. 218; p. 241.
- Tire-protector. J. Richardson. No. 1,158,075; Oct. 26; Gaz. vol. 219; p. 1080.
- Tire-protector. J. C. Schleicher. No. 1,141,585; June 1; Gaz. vol. 215; p. 178.
- Tire-protector. O. M. Thomas. No. 1,138,911; May 11; Gaz. vol. 214; p. 456.
- Tire-protector. W. B. Thompson. No. 1,144,445; June 29; Gaz. vol. 215; p. 1303.
- Tire-protector and antiskid device. W. S. Rawlings. No. 1,130,539; Mar. 2; Gaz. vol. 212; p. 246.
- Tire protector and guard, Combined. W. B. Thompson. No. 1,145,394; July 6; Gaz. vol. 216; p. 146.
- Tire-protector, Antiskidding, non-slipping. A. Essley. No. 1,127,978; Feb. 9; Gaz. vol. 211; p. 501.
- Tire-protector, Auto. J. K. Tomlinson. No. 1,131,094; Mar. 9; Gaz. vol. 212; p. 469.
- Tire-protector for motor vehicles. G. A. Faber. No. 1,161,645; Nov. 23; Gaz. vol. 220; p. 1271.
- Tire-protector, Pneumatic. A. F. Tiedge. No. 1,133,894; Mar. 30; Gaz. vol. 212; p. 1593.
- Tire-protector, Vehicle. H. Charm. No. 1,123,486; Jan. 5; Gaz. vol. 210; p. 99.
- Tire, Puncture-proof. R. B. Hayter. No. 1,136,672; Apr. 20; Gaz. vol. 213; p. 999.
- Tire, Puncture-proof. D. M. Rothenberger. No. 1,139,807; May 18; Gaz. vol. 214; p. 807.
- Tire, Puncture-proof. F. P. Spalding. No. 1,132,693; Mar. 23; Gaz. vol. 212; p. 1124.
- Tire-punctures, Making a composition for plugging. C. K. Barker. No. 1,128,282; Feb. 16; Gaz. vol. 211; p. 659.
- Tire, Quick-detachable elastic. P. A. Painchaud. No. 1,149,780; Aug. 10; Gaz. vol. 217; p. 566.
- Tire-rack. L. A. Winslow. No. 1,133,598; Mar. 30; Gaz. vol. 212; p. 1486.
- Tire-rack, Automobile. L. A. Nares. No. 1,150,696; Aug. 17; Gaz. vol. 217; p. 951.
- Tire rack or support. G. T. Willson. No. 1,148,734; Aug. 3; Gaz. vol. 217; p. 90.
- Tire reinforcement, Pneumatic. M. Patrick. No. 1,159,414; Nov. 9; Gaz. vol. 220; p. 382.
- Tire-reliner. C. G. Howard and E. G. Kinney. No. 1,127,626; Feb. 9; Gaz. vol. 211; p. 375.
- Tire-repair devices, Retainer for. W. B. Lashar. No. 1,159,320; Nov. 2; Gaz. vol. 220; p. 317.
- Tire, Resilient. H. C. Cohen. No. 1,133,102; Mar. 23; Gaz. vol. 212; p. 1274.
- Tire, Resilient. C. De Lukacsevics. No. 1,139,260; May 11; Gaz. vol. 214; p. 579.
- Tire, Resilient. H. Haus. No. 1,151,462; Aug. 24; Gaz. vol. 217; p. 1267.
- Tire, Resilient. F. Horr. No. 1,147,094; July 20; Gaz. vol. 216; p. 781.
- Tire, Resilient. E. Jacquemin. No. 1,141,641; June 1; Gaz. vol. 215; p. 196.
- Tire, Resilient. D. M. Kampler. No. 1,154,119; Sept. 21; Gaz. vol. 218; p. 691.
- Tire, Resilient. A. B. Landis. No. 1,142,892; June 15; Gaz. vol. 215; p. 709.
- Tire, Resilient. N. Malm. No. 1,161,090; Nov. 30; Gaz. vol. 220; p. 1474.
- Tire, Resilient. C. S. Morse. No. 1,133,170; Mar. 23; Gaz. vol. 212; p. 1299.
- Tire, Resilient. S. P. Neuhausen. No. 1,137,518; Apr. 27; Gaz. vol. 213; p. 1340.
- Tire, Resilient. L. E. Pickett. No. 1,143,994; June 22; Gaz. vol. 215; p. 1117.
- Tire, Resilient. E. W. Price. No. 1,161,247; Nov. 23; Gaz. vol. 220; p. 1133.
- Tire, Resilient. E. Radke. No. 1,132,031; Mar. 16; Gaz. vol. 212; p. 834.
- Tire, Resilient. L. E. Scotucci and P. A. Elnarson. No. 1,125,191; Jan. 19; Gaz. vol. 210; p. 780.
- Tire, Resilient. J. Thissen. No. 1,126,129; Jan. 26; Gaz. vol. 210; p. 1148.
- Tire, Resilient pneumatic. F. Loder. No. 1,153,396; Sept. 14; Gaz. vol. 218; p. 404.
- Tire, Resilient vehicle. D. Arnold. No. 1,139,523; May 11; Gaz. vol. 214; p. 598.
- Tire, Resilient vehicle. C. E. Hoops. No. 1,124,439; Jan. 12; Gaz. vol. 210; p. 475.
- Tire-rest. W. H. Holtby. No. 1,132,477; Mar. 16; Gaz. vol. 212; p. 995.
- Tire-rim. T. Naus. No. 1,126,259; Jan. 26; Gaz. vol. 210; p. 1196.
- Tire-rim. B. Urquhart. No. 1,133,683; Mar. 30; Gaz. vol. 212; p. 1519.
- Tire-rim, Collapsible. A. L. Ottenad. No. 1,163,257; Dec. 7; Gaz. vol. 221; p. 183.
- Tire-rim, Collapsible and demountable. O. C. Ivers. No. 1,130,604; Mar. 2; Gaz. vol. 212; p. 267.
- Tire-rim, Collapsible demountable. H. Wirz. No. 1,163,055; Dec. 7; Gaz. vol. 221; p. 111.
- Tire-rim contractor. A. A. Friestedt. No. 1,162,470; Nov. 30; Gaz. vol. 220; p. 1604.
- Tire-rim, Demountable. B. C. Ball and L. E. Younie. No. 1,157,141; Oct. 19; Gaz. vol. 219; p. 689.
- Tire rim-lock, Pneumatic. H. P. Kraft and P. W. Kautzman. No. 1,137,868; May 4; Gaz. vol. 214; p. 50.
- Tire-rim, Vehicle. J. G. Rolf. No. 1,162,254; Nov. 30; Gaz. vol. 220; p. 1530.
- Tire rims, Detachable marginal flange or ring for pneumatic. W. N. Booth. No. 1,162,216; Nov. 30; Gaz. vol. 220; p. 1516.
- Tire, Rubber. E. A. Haaker. No. 1,162,158; Nov. 30; Gaz. vol. 220; p. 1497.
- Tire, Rubber. A. S. Krotz. No. 1,152,324; Aug. 31; Gaz. vol. 217; p. 1613.
- Tire safety-valve. T. Borkgren. No. 1,125,263; Jan. 19; Gaz. vol. 210; p. 806.
- Tire-saver. D. A. Eaken. No. 1,160,700; Nov. 16; Gaz. vol. 220; p. 894.
- Tire-saving jack, Tubular. J. F. Engle. No. 1,164,598; Dec. 14; Gaz. vol. 221; p. 695.
- Tire, Sectional spring. G. H. Vogel, B. D. Lobdell, and J. E. Ball. No. 1,156,333; Oct. 12; Gaz. vol. 219; p. 373.
- Tire-securing device. E. C. Seaton. No. 1,140,487; May 25; Gaz. vol. 214; p. 1083.
- Tire, Self-filling. A. B. Wetherell. No. 1,134,361; Apr. 6; Gaz. vol. 213; p. 101.
- Tire, Self-inflating. J. Fernandez. No. 1,125,678; Jan. 19; Gaz. vol. 210; p. 954.
- Tire-setting device. H. E. Hart. No. 1,129,487; Feb. 23; Gaz. vol. 211; p. 1114.
- Tire-setting machine. H. T. Henderson. No. 1,166,369; Dec. 28; Gaz. vol. 221; p. 1400.
- Tire-shoe. J. C. McCall. No. 1,147,523; July 20; Gaz. vol. 216; p. 931.
- Tire-shoe and constructing same. C. T. Dickey. No. 1,138,092; May 4; Gaz. vol. 214; p. 131.
- Tire-shoe, Non-skid. J. W. Rikmar and J. D. Robinson. No. 1,147,549; July 20; Gaz. vol. 216; p. 941.
- Tire-shoe-vulcanizing apparatus. C. F. Adamson. No. 1,150,922; Aug. 24; Gaz. vol. 217; p. 1086.
- Tire-signal, Automatic vehicle. J. H. Brown. No. 1,137,116; Apr. 27; Gaz. vol. 213; p. 1196.
- Tire, Spring. H. C. Bailey. No. 1,123,466; Jan. 5; Gaz. vol. 210; p. 92.

Alphabetical list of inventions—Continued.

- Tire, Spring-. J. H. Barrett. No. 1,130,367; Mar. 2; Gaz. vol. 212; p. 182.
- Tire, Spring-. J. P. Bernard. No. 1,150,736; Aug. 17; Gaz. vol. 217; p. 963.
- Tire, Spring-. W. De Frees. No. 1,156,348; Oct. 12; Gaz. vol. 219; p. 379.
- Tire, Spring-. J. N. Euwer. No. 1,147,154; July 20; Gaz. vol. 216; p. 802.
- Tire, Spring-. F. Gauthier. No. 1,159,759; Nov. 9; Gaz. vol. 220; p. 506.
- Tire, Spring-. J. F. Haepfner. No. 1,126,631; Jan. 26; Gaz. vol. 210; p. 1330.
- Tire, Spring-. H. W. Hooton and S. A. Duggins. No. 1,146,708; July 13; Gaz. vol. 216; p. 626.
- Tire, Spring-. E. P. Hutchins. No. 1,142,327; June 8; Gaz. vol. 215; p. 472.
- Tire, Spring-. T. H. Kip. No. 1,128,330; Feb. 16; Gaz. vol. 211; p. 674.
- Tire, Spring-. G. Miller. No. 1,125,864; Jan. 19; Gaz. vol. 210; p. 1018.
- Tire, Spring-. E. S. Morris. No. 1,152,037; Aug. 31; Gaz. vol. 217; p. 1514.
- Tire, Spring-. A. J. Morse. No. 1,158,070; Oct. 26; Gaz. vol. 219; p. 1078.
- Tire, Spring-. S. D. Mosher. No. 1,160,747; Nov. 16; Gaz. vol. 220; p. 910.
- Tire, Spring-. E. K. Rabey. No. 1,156,311; Oct. 12; Gaz. vol. 219; p. 865.
- Tire-spring, Automobile. H. Menn. No. 1,147,807; July 27; Gaz. vol. 216; p. 1057.
- Tire, Spring-cushion. J. W. T. Stephens. No. 1,142,279; June 8; Gaz. vol. 215; p. 456.
- Tire, Steel. F. Feldhaus. No. 1,158,038; Oct. 26; Gaz. vol. 219; p. 1066.
- Tire-stem cover. R. A. Campbell. No. 1,146,774; July 13; Gaz. vol. 216; p. 649.
- Tire structure. A. H. Garrison. No. 1,145,580; July 6; Gaz. vol. 216; p. 210.
- Tire structure. J. Piotkowski. No. 1,152,657; Sept. 7; Gaz. vol. 218; p. 102.
- Tire support, Extra-. L. K. Snell. No. 1,147,452; July 20; Gaz. vol. 216; p. 908.
- Tire-tightener. G. Leischner. No. 1,162,293; Nov. 30; Gaz. vol. 220; p. 1544.
- Tire-tightener. F. A. Pettibone. No. 1,153,822; Sept. 14; Gaz. vol. 218; p. 554.
- Tire-tightener. D. C. Schlach. No. 1,165,628; Dec. 28; Gaz. vol. 221; p. 1136.
- Tire-tightener for vehicle-wheels. A. Shenson. No. 1,147,050; July 20; Gaz. vol. 216; p. 767.
- Tire tightener or expander. J. P. Lawrenson and C. H. King. No. 1,133,864; Mar. 30; Gaz. vol. 212; p. 1583.
- Tire-tool. W. S. Bidle. No. 1,132,153; Mar. 16; Gaz. vol. 212; p. 878.
- Tire-tool. J. P. Cunningham. No. 1,157,763; Oct. 26; Gaz. vol. 219; p. 970.
- Tire-tool. C. M. Mills. No. 1,156,167; Oct. 12; Gaz. vol. 219; p. 319.
- Tire-tool. L. M. Rakestraw. No. 1,135,392; Apr. 13; Gaz. vol. 213; p. 507.
- Tire-tool. R. W. Sampson. No. 1,136,977; Apr. 27; Gaz. vol. 213; p. 1144.
- Tire-tool. F. Severson. No. 1,154,442; Sept. 21; Gaz. vol. 218; p. 802.
- Tire-tread. A. Kanzee. No. 1,143,124; June 15; Gaz. vol. 215; p. 790.
- Tire-tread. E. McCoy. No. 1,127,789; Feb. 9; Gaz. vol. 211; p. 435.
- Tire-tread. T. B. Tiefenbacher. No. 1,128,387; Feb. 16; Gaz. vol. 211; p. 692.
- Tire-tread. T. B. Tiefenbacher. No. 1,161,549; Nov. 23; Gaz. vol. 220; p. 1259.
- Tire-tread, Detachable. C. B. Gray. No. 1,149,749; Aug. 10; Gaz. vol. 217; p. 555.
- Tire-tread, Metallic. P. D. Milloy. No. 1,131,070; Mar. 9; Gaz. vol. 212; p. 461.
- Tire tubes, Valve connection for pneumatic. A. E. Henderson. No. 1,160,168; Nov. 16; Gaz. vol. 220; p. 705.
- Tire-valve. A. L. Kull. No. 1,133,042; Mar. 23; Gaz. vol. 212; p. 1254.
- Tire-valve. R. E. Relyea. No. 1,151,044; Aug. 24; Gaz. vol. 217; p. 1128.
- Tire-valve and pressure-gage, Combined. O. F. R. Bromberg. No. 1,156,263; Oct. 12; Gaz. vol. 219; p. 351.
- Tire-valve co. M. F. Patton. No. 1,162,099; Nov. 30; Gaz. vol. 220; p. 1477.
- Tire valve, Pneumatic. J. W. Blodgett. No. 1,162,744; Dec. 7; Gaz. vol. 221; p. 5.
- Tire valve, Pneumatic. D. Jones. No. 1,146,882; July 20; Gaz. vol. 216; p. 707.
- Tire valve, Pneumatic. J. C. McCall. No. 1,137,768; May 4; Gaz. vol. 214; p. 16.
- Tire valve, Pneumatic. J. N. Newsom. No. 1,129,585; Feb. 23; Gaz. vol. 211; p. 1147.
- Tire valve, Pneumatic. M. J. Payne. No. 1,162,875; Dec. 7; Gaz. vol. 221; p. 49.
- Tire valve, Pneumatic. J. A. Reasoner. No. 1,126,568; Jan. 26; Gaz. vol. 210; p. 1308.
- Tire valve, Pneumatic. B. E. Taylor. No. 1,157,822; Oct. 26; Gaz. vol. 219; p. 990.
- Tire-valves, Dust-cap for. E. A. Alexander. No. 1,161,578; Nov. 23; Gaz. vol. 220; p. 1249.
- Tire-valves, Dust-cap for. H. A. Mason. No. 1,157,564; Oct. 19; Gaz. vol. 219; p. 837.
- Tire-valves, Dust-proof cap for. C. E. Ivins. No. 1,131,138; Mar. 9; Gaz. vol. 212; p. 484.
- Tire-valves, Pressure-regulating device for. C. H. Thayer. No. 1,156,328; Oct. 12; Gaz. vol. 219; p. 371.
- Tire, Vehicle-. F. U. Adams. No. 1,152,470; Sept. 7; Gaz. vol. 218; p. 31.
- Tire, Vehicle-. H. Besser. No. 1,150,986; Aug. 24; Gaz. vol. 217; p. 1108.
- Tire, Vehicle-. J. A. Black. No. 1,148,072; July 27; Gaz. vol. 216; p. 1152.
- Tire, Vehicle-. W. H. Boyes. No. 1,141,908; June 1; Gaz. vol. 215; p. 289.
- Tire, Vehicle-. B. H. Brown. No. 1,162,900; Dec. 7; Gaz. vol. 221; p. 57.
- Tire, Vehicle-. T. Capparella and N. Mallone. No. 1,135,876; Apr. 13; Gaz. vol. 213; p. 677.
- Tire, Vehicle-. J. Cairno. No. 1,165,845; Dec. 28; Gaz. vol. 221; p. 1211.
- Tire, Vehicle-. G. H. Chinnock. No. 1,131,772; Mar. 16; Gaz. vol. 212; p. 740.
- Tire, Vehicle-. H. M. Darrah. No. 1,160,144; Nov. 16; Gaz. vol. 220; p. 696.
- Tire, Vehicle-. H. Dech. No. 1,165,576; Dec. 28; Gaz. vol. 221; p. 1116.
- Tire, Vehicle-. H. Dech. No. 1,165,577; Dec. 28; Gaz. vol. 221; p. 1117.
- Tire, Vehicle-. M. Dickerson. No. 1,165,398; Dec. 28; Gaz. vol. 221; p. 1055.
- Tire, Vehicle-. W. T. Erickson. No. 1,151,868; Aug. 31; Gaz. vol. 217; p. 1457.
- Tire, Vehicle-. C. F. Forster. No. 1,163,000; Dec. 7; Gaz. vol. 221; p. 93.
- Tire, Vehicle-. J. R. Gammeter. No. 1,140,370; May 25; Gaz. vol. 214; p. 1039.
- Tire, Vehicle-. L. Hay. No. 1,160,508; Nov. 16; Gaz. vol. 220; p. 822.
- Tire, Vehicle-. M. W. Hickey. No. 1,137,317; Apr. 27; Gaz. vol. 213; p. 1269.
- Tire, Vehicle-. N. R. Landis. No. 1,156,155; Oct. 12; Gaz. vol. 219; p. 315.
- Tire, Vehicle-. R. L. Leach. No. 1,137,498; Apr. 27; Gaz. vol. 213; p. 1333.
- Tire, Vehicle-. W. K. Leonard. No. 1,140,752; May 25; Gaz. vol. 214; p. 1172.
- Tire, Vehicle-. A. W. Livingston. No. 1,129,807; Feb. 23; Gaz. vol. 211; p. 1220.
- Tire, Vehicle-. J. A. MacMillan. No. 1,164,834; Dec. 21; Gaz. vol. 221; p. 820.
- Tire, Vehicle-. W. R. Meredith. No. 1,143,982; June 22; Gaz. vol. 215; p. 1112.
- Tire, Vehicle-. H. S. Nunamaker. No. 1,126,840; Feb. 2; Gaz. vol. 211; p. 863.
- Tire, Vehicle-. T. R. Palmer. No. 1,141,723; June 1; Gaz. vol. 215; p. 226.
- Tire, Vehicle-. E. M. Richardson. No. 1,127,517; Feb. 9; Gaz. vol. 211; p. 339.
- Tire, Vehicle-. E. C. Seward, Jr. No. 1,165,630; Dec. 28; Gaz. vol. 221; p. 1137.
- Tire, Vehicle-. E. C. Seward, Jr. No. 1,165,631; Dec. 28; Gaz. vol. 221; p. 1137.
- Tire, Vehicle-. M. Simon. No. 1,137,357; Apr. 27; Gaz. vol. 213; p. 1284.
- Tire, Vehicle-. J. M. Smith. No. 1,136,285; Apr. 20; Gaz. vol. 213; p. 862.
- Tire, Vehicle-. E. L. Thompson. No. 1,129,528; Feb. 23; Gaz. vol. 211; p. 1127.
- Tire, Vehicle-. J. R. Vickery. No. 1,138,813; May 11; Gaz. vol. 214; p. 422.
- Tire, Vehicle and auto. J. F. Shafer. No. 1,140,191; May 18; Gaz. vol. 214; p. 943.
- Tire, Vehicle wheel-. J. Cairns. No. 1,143,102; June 15; Gaz. vol. 215; p. 783.
- Tire, Vehicle wheel-. M. Clark. No. 1,130,146; Mar. 2; Gaz. vol. 212; p. 105.
- Tire, Vehicle wheel-. M. Clark. No. 1,130,795; Mar. 9; Gaz. vol. 212; p. 367.
- Tire, Vehicle wheel-. S. Floersheim. No. 1,134,188; Apr. 6; Gaz. vol. 213; p. 38.
- Tire, Vehicle wheel-. A. W. Gano. No. 1,154,504; Sept. 21; Gaz. vol. 218; p. 822.
- Tire, Vehicle wheel-. J. I. Richards. No. 1,160,323; Nov. 16; Gaz. vol. 220; p. 757.
- Tire, Vehicle wheel-. J. M. Ross. No. 1,123,597; Jan. 5; Gaz. vol. 210; p. 136.
- Tire, Vehicle wheel-. F. V. Ubezzi. No. 1,165,145; Dec. 21; Gaz. vol. 221; p. 930.
- Tire, Void-. G. T. Segee. No. 1,153,348; Sept. 14; Gaz. vol. 218; p. 386.
- Tire-vulcanizer. W. G. Vandegrift. No. 1,146,538; July 13; Gaz. vol. 216; p. 569.
- Tire-vulcanizer apparatus. J. H. Lepsch. No. 1,153,324; Sept. 14; Gaz. vol. 218; p. 376.
- Tire-vulcanizing apparatus. J. D. Tew. No. 1,137,097; Apr. 27; Gaz. vol. 213; p. 1189.
- Tire-vulcanizing apparatus, Internal-pressure. J. R. Gammeter. No. 1,164,639; Dec. 21; Gaz. vol. 221; p. 752.
- Tire, Wheel-. J. L. Donat. No. 1,162,143; Nov. 30; Gaz. vol. 220; p. 1492.
- Tire, Wheel-. W. H. J. Fitzgerald. No. 1,152,160; Aug. 31; Gaz. vol. 217; p. 1557.

Alphabetical list of inventions—Continued.

- Tire, Wheel-. A. Geering. No. 1,159,925; Nov. 9; Gaz. vol. 220; p. 567.
- Tire, Wheel-. F. D. Lane. No. 1,126,232; Jan. 26; Gaz. vol. 210; p. 1186.
- Tire, Wheel-. A. J. Michelim. No. 1,129,706; Feb. 23; Gaz. vol. 211; p. 1186.
- Tire, Wheel-. I. H. Riley. No. 1,143,139; June 15; Gaz. vol. 215; p. 795.
- Tire-wrapper. W. A. W. Wood. No. 1,165,644; Dec. 28; Gaz. vol. 221; p. 1143.
- Tire-wrench. A. Turnbull. No. 1,137,555; Apr. 27; Gaz. vol. 213; p. 1352.
- Tires and the like, Making inner tubes for vehicle-. A. W. Savage. No. 1,138,250; May 4; Gaz. vol. 214; p. 184.
- Tires, Antiskid-tread for. W. M. Wise and R. C. Michaels. No. 1,127,339; Feb. 2; Gaz. vol. 211; p. 235.
- Tires, Antiskid-tread for resilient. H. T. Hughes. No. 1,130,693; Mar. 2; Gaz. vol. 212; p. 298.
- Tires, Antislipping shoe for. C. J. Peak. No. 1,132,730; Mar. 23; Gaz. vol. 212; p. 1137.
- Tires, Apparatus for shaping the outer casings of pneumatic. G. W. Bell. No. 1,132,904; Mar. 23; Gaz. vol. 212; p. 1202.
- Tires, Armor for inner tubes of pneumatic. J. Bernstein. No. 1,147,293; July 20; Gaz. vol. 216; p. 850.
- Tires, Armoring of pneumatic. C. M. Gautier. No. 1,143,265; June 15; Gaz. vol. 215; p. 841.
- Tires, Automatic valve and hose coupling and dust-cap for pneumatic. A. Beliveau. No. 1,159,333; Nov. 2; Gaz. vol. 220; p. 321.
- Tires, Bead for pneumatic or other. M. W. Fink and A. M. Kobiolke. No. 1,158,194; Oct. 26; Gaz. vol. 219; p. 1122.
- Tires, Building-flanges for. C. W. Stultz. No. 1,161,906; Nov. 30; Gaz. vol. 220; p. 1408.
- Tires, Clamp for securing repair-gaiters on pneumatic. F. Russell. No. 1,147,976; July 27; Gaz. vol. 216; p. 1117.
- Tires, Collapsible core for vehicle-. P. and B. De Mattia. No. 1,135,774; Apr. 13; Gaz. vol. 213; p. 641.
- Tires, Construction of pneumatic. S. A. Hunter. No. 1,145,993; July 13; Gaz. vol. 216; p. 376.
- Tires, Cover for pneumatic. R. Latour and A. Cappelle. No. 1,149,841; Aug. 10; Gaz. vol. 217; p. 589.
- Tires, Cushion-rim for pneumatic. W. W. Robinson. No. 1,139,583; May 18; Gaz. vol. 214; p. 728.
- Tires, Deflating-tool for pneumatic. J. S. Wiley. No. 1,140,222; May 18; Gaz. vol. 214; p. 953.
- Tires, Demountable rim for vehicle-. J. D. Hooker. No. 1,142,962; June 15; Gaz. vol. 215; p. 733.
- Tires, Demountable rim for wheel-. E. O. Collins. No. 1,141,935; June 8; Gaz. vol. 215; p. 335.
- Tires, Detachable boot for automobile. C. P. Funk. No. 1,133,718; Mar. 30; Gaz. vol. 212; p. 1531.
- Tires, Detachable rim for pneumatic. B. Bradford. No. 1,143,031; June 15; Gaz. vol. 215; p. 758.
- Tires, Detachable rim for resilient. J. W. Hall and C. Baynes. No. 1,142,563; June 8; Gaz. vol. 215; p. 556.
- Tires, Device adapted to diminish the wear of parts of certain elastic. H. Pataud. No. 1,127,803; Feb. 9; Gaz. vol. 211; p. 441.
- Tires, Device for clamping patches on. J. S. Sackett. No. 1,131,162; Mar. 9; Gaz. vol. 212; p. 491.
- Tires, Device for detachment of rims from. F. Perkins. No. 1,140,315; May 18; Gaz. vol. 214; p. 984.
- Tires, Exhaust-valve and pressure-gage for pneumatic. R. H. Henemer. No. 1,137,209; Apr. 27; Gaz. vol. 213; p. 1229.
- Tires, Filling. E. Oliver. No. 1,162,306; Nov. 30; Gaz. vol. 220; p. 1549.
- Tires, Grip-tread armor for elastic. H. D. Weed. No. 1,139,388; May 11; Gaz. vol. 214; p. 623.
- Tires, Grip-tread for vehicle-. J. M. Mack. No. 1,128,340; Feb. 16; Gaz. vol. 211; p. 677.
- Tires, Grip-tread for vehicle-. H. D. Weed. No. 1,141,735; June 1; Gaz. vol. 215; p. 230.
- Tires, Grip-tread for wheel-. B. H. Sills. No. 1,135,856; Apr. 13; Gaz. vol. 213; p. 671.
- Tires, Inflation-valve for pneumatic. A. E. Henderson. No. 1,160,712; Nov. 16; Gaz. vol. 220; p. 899.
- Tires, Inlet and relief valve for pneumatic. A. F. Voss. No. 1,139,935; May 18; Gaz. vol. 214; p. 852.
- Tires, Inner tube for pneumatic. C. L. Dawson. No. 1,138,544; May 4; Gaz. vol. 214; p. 288.
- Tires, Inner tube for pneumatic. J. H. Poole. No. 1,144,239; June 22; Gaz. vol. 215; p. 1205.
- Tires, Intermediate shield for pneumatic. J. B. Smiley. No. 1,160,334; Nov. 16; Gaz. vol. 220; p. 761.
- Tires, Jacket for rubber. C. F. Mitzimberg. No. 1,148,981; Aug. 3; Gaz. vol. 217; p. 176.
- Tires, Liner for pneumatic. F. E. Neal. No. 1,155,367; Oct. 5; Gaz. vol. 219; p. 15.
- Tires, Machine for making or building up pneumatic. J. E. and P. D. Thropp and A. De Laski. No. 1,137,365; Apr. 27; Gaz. vol. 213; p. 1287.
- Tires, Machine for making solid-rubber. H. Hennig. No. 1,134,454; Apr. 6; Gaz. vol. 213; p. 135.
- Tires, Making. M. A. Dees. No. 1,130,964; Mar. 9; Gaz. vol. 212; p. 424.
- Tires, Making. J. H. Hill. No. 1,141,708; June 1; Gaz. vol. 215; p. 220.
- Tires, Making. C. E. Miller. No. 1,128,480; Feb. 16; Gaz. vol. 211; p. 725.
- Tires, Making. I. J. Webster. No. 1,161,093; Nov. 23; Gaz. vol. 220; p. 1075.
- Tires, Making leather. E. Spiegel. No. 1,150,715; Aug. 17; Gaz. vol. 217; p. 957.
- Tires, Making pneumatic. R. Griffith. No. 1,149,364; Aug. 10; Gaz. vol. 217; p. 416.
- Tires, Making treads for. W. Henry. No. 1,163,999; Dec. 14; Gaz. vol. 221; p. 488.
- Tires, Manufacture of leather covers for pneumatic. J. B. Salmon and E. W. Roy. No. 1,145,616; July 6; Gaz. vol. 216; p. 223.
- Tires, Manufacturing. A. H. Harris. No. 1,162,479; Nov. 30; Gaz. vol. 220; p. 1607.
- Tires, Means for repairing pneumatic vehicle-. J. B. Gay. No. 1,161,044; Nov. 23; Gaz. vol. 220; p. 1059.
- Tires, Means for splicing the inner tubes of pneumatic. H. Radovich. No. 1,158,284; Oct. 26; Gaz. vol. 219; p. 1153.
- Tires, Method and means for repairing pneumatic. L. G. Hardenbrook. No. 1,136,900; Apr. 20; Gaz. vol. 213; p. 1081.
- Tires, Mileage-register for. C. H. Veeder. No. 1,151,743; Aug. 31; Gaz. vol. 217; p. 1411.
- Tires, Mold for the manufacture of rubber. T. Sloper. No. 1,147,563; July 20; Gaz. vol. 216; p. 945.
- Tires, Molding and vulcanizing. J. H. and J. H. Coffey, Jr. No. 1,166,326; Dec. 28; Gaz. vol. 221; p. 1384.
- Tires, Non-skid attachment for. J. L. Duff. No. 1,157,928; Oct. 26; Gaz. vol. 219; p. 1027.
- Tires, Non-skidding attachment for wheel-. G. A. Lyon. No. 1,137,506; Apr. 27; Gaz. vol. 213; p. 1336.
- Tires of locomotive driving-wheels, &c., Mechanism for holding. E. J. Brewster. No. 1,145,182; July 6; Gaz. vol. 216; p. 73.
- Tires on crushing and grinding wheels, rolls, and the like, Means for securing. M. A. Nicol. No. 1,138,399; May 4; Gaz. vol. 214; p. 240.
- Tires, Pneumatic core for repairing. A. L. Johnson and A. O. Alsten. No. 1,148,171; July 27; Gaz. vol. 216; p. 1188.
- Tires, Pressure-alarm for pneumatic. G. A. Culver. No. 1,133,269; Mar. 30; Gaz. vol. 212; p. 1368.
- Tires, Pressure-controller for. E. B. Kelth. No. 1,128,455; Feb. 16; Gaz. vol. 211; p. 716.
- Tires, Producing a puncture-closing compound for pneumatic. R. T. Van Valkenburg. No. 1,143,152; June 15; Gaz. vol. 215; p. 800.
- Tires, Producing beads for. J. R. Gammeter. No. 1,125,303; Jan. 19; Gaz. vol. 210; p. 820.
- Tires, Puncture-closer for pneumatic. R. W. Sampson. No. 1,140,718; May 25; Gaz. vol. 214; p. 1160.
- Tires, Puncture-detector for inner tubes for. M. D. Self and J. O. Willingham. No. 1,148,933; Aug. 3; Gaz. vol. 217; p. 159.
- Tires, Puncture-plug for pneumatic. B. W. Spittler. No. 1,139,140; May 11; Gaz. vol. 214; p. 538.
- Tires, Puncture-proof shield for. J. E. McLaughlin. No. 1,133,486; Mar. 30; Gaz. vol. 212; p. 1445.
- Tires, Reinforcement for pneumatic. A. L. Murray. No. 1,130,424; Mar. 2; Gaz. vol. 212; p. 203.
- Tires, Relief-valve for pneumatic. A. L. Owens and C. L. Alford. No. 1,144,499; June 29; Gaz. vol. 215; p. 1322.
- Tires, Relief-valve for pneumatic. R. F. Tibbets. No. 1,137,034; Apr. 27; Gaz. vol. 213; p. 1166.
- Tires, Rim construction for dual. J. C. Cole. No. 1,151,086; Aug. 24; Gaz. vol. 217; p. 1141.
- Tires, Rubber-tread flexible armor for pneumatic. C. L. Wolfe. No. 1,155,025; Sept. 28; Gaz. vol. 218; p. 1028.
- Tires, Safety-cap for inflation-valves of pneumatic. E. A. Rasbridge. No. 1,161,728; Nov. 23; Gaz. vol. 220; p. 1299.
- Tires, Safety-valve mechanism for pneumatic. W. M. Myers. No. 1,136,901; Apr. 20; Gaz. vol. 213; p. 1081.
- Tires, Self-healing composition for inner tubes of. J. P. Clare. No. 1,137,461; Apr. 27; Gaz. vol. 213; p. 1321.
- Tires, &c., Travel detector or indicator for. J. H. Friedewald. No. 1,144,961; June 29; Gaz. vol. 215; p. 1479.
- Tires, Vacuum-tread for. W. Dunbar. No. 1,147,149; July 20; Gaz. vol. 216; p. 800.
- Titanium-oxygen compounds from ilmenite or titaniferous iron ores and other materials, Producing. P. Farup. No. 1,156,220; Oct. 12; Gaz. vol. 219; p. 335.
- Toaster. J. F. Lamb. No. 1,155,494; Oct. 5; Gaz. vol. 219; p. 60.
- Toaster. D. Rose. No. 1,155,838; Oct. 5; Gaz. vol. 219; p. 180.
- Toaster, Table-. S. M. H. Gardner. No. 1,128,866; Feb. 16; Gaz. vol. 211; p. 858.
- Tobacco and making the same, Pad for packing. H. Turner. No. 1,125,771; Jan. 19; Gaz. vol. 210; p. 988.
- Tobacco and match box, Combined. T. F. Samuel and J. H. Wolcott. No. 1,138,980; May 11; Gaz. vol. 214; p. 480.
- Tobacco-box. K. E. Richter. No. 1,166,079; Dec. 28; Gaz. vol. 221; p. 1292.
- Tobacco-box. A. Warne. No. 1,123,441; Jan. 5; Gaz. vol. 210; p. 84.
- Tobacco-box, Combination. J. M. White. No. 1,141,027; May 25; Gaz. vol. 214; p. 1269.

Alphabetical list of inventions—Continued.

- Tobacco-can. J. D. Boylan. No. 1,148,947; Aug. 3; Gaz. vol. 217; p. 163.
- Tobacco cartridge. C. C. Dula. No. 1,165,000; Dec. 21; Gaz. vol. 221; p. 878.
- Tobacco cartridge and package. C. C. Dula. No. 1,144,824; June 29; Gaz. vol. 215; p. 1433.
- Tobacco-case. H. D. Burns. No. 1,129,636; Feb. 23; Gaz. vol. 211; p. 1165.
- Tobacco-container. I. J. Marcuse. No. 1,145,915; July 13; Gaz. vol. 216; p. 348.
- Tobacco curing and yellowing pan. J. H. Ashburn. No. 1,134,805; Apr. 6; Gaz. vol. 213; p. 263.
- Tobacco-cutting machine. Leaf. H. Rosenthal. No. 1,147,342; July 20; Gaz. vol. 216; p. 867.
- Tobacco-drier. W. A. Barnes. No. 1,165,308; Dec. 21; Gaz. vol. 221; p. 984.
- Tobacco-leaf machine. O. Hammerstein. No. 1,137,207; Apr. 27; Gaz. vol. 213; p. 1228.
- Tobacco-leaf stripping and booking machine. O. Hammerstein. No. 1,133,799; Mar. 30; Gaz. vol. 212; p. 1559.
- Tobacco-machine. O. Hammerstein. No. 1,137,206; Apr. 27; Gaz. vol. 213; p. 1228.
- Tobacco material, Method and apparatus for extracting nicotine from. R. G. Mewborne. No. 1,156,609; Oct. 12; Gaz. vol. 219; p. 472.
- Tobacco-moistener. H. A. Ross. No. 1,134,232; Apr. 6; Gaz. vol. 213; p. 55.
- Tobacco-packing machine. E. L. Bracy. No. 1,125,802; Jan. 19; Gaz. vol. 210; p. 999.
- Tobacco-pipe. A. Dunhill. No. 1,130,806; Mar. 9; Gaz. vol. 212; p. 371.
- Tobacco-pipe. J. N. P. Fournier. No. 1,133,015; Mar. 23; Gaz. vol. 212; p. 1243.
- Tobacco-pipe. J. N. P. Fournier. No. 1,152,163; Aug. 31; Gaz. vol. 217; p. 1558.
- Tobacco-pipe. B. Gilpin. No. 1,162,476; Nov. 30; Gaz. vol. 220; p. 1606.
- Tobacco-pipe. E. A. Jewell. No. 1,127,256; Feb. 2; Gaz. vol. 211; p. 208.
- Tobacco-pipe. W. T. Ross. No. 1,164,551; Dec. 14; Gaz. vol. 221; p. 681.
- Tobacco-pipe filler. A. A. Hauerbach and H. G. Allan. No. 1,163,751; Dec. 14; Gaz. vol. 221; p. 402.
- Tobacco-pouch. W. H. Stromeyer. No. 1,156,720; Oct. 12; Gaz. vol. 219; p. 511.
- Tobacco-press. J. W. Glenn. No. 1,136,119; Apr. 20; Gaz. vol. 213; p. 802.
- Tobacco pressing and finishing apparatus. Plug. R. B. Dula. No. 1,154,914; Sept. 28; Gaz. vol. 218; p. 991.
- Tobacco pressing and finishing machine. Plug. R. B. Dula. No. 1,154,913; Sept. 28; Gaz. vol. 218; p. 991.
- Tobacco product. C. C. Dula. No. 1,144,823; June 29; Gaz. vol. 215; p. 1433.
- Tobacco-scraper, Method and means for removing foreign material from. H. G. Brockwell and L. W. Henderson. No. 1,164,986; Dec. 21; Gaz. vol. 221; p. 873.
- Tobacco-scraper, Method and means for removing foreign material from. R. G. Mewborne. No. 1,164,953; Dec. 21; Gaz. vol. 221; p. 861.
- Toilet-seat for children. B. Lehman. No. 1,156,014; Oct. 5; Gaz. vol. 219; p. 239.
- Toilet-seat, Sanitary. E. Walder. No. 1,160,963; Nov. 16; Gaz. vol. 220; p. 985.
- Toilet-stand. C. Bauer. No. 1,156,519; Oct. 12; Gaz. vol. 219; p. 441.
- Tobacco-stemming machine. J. P. Scovill. No. 1,153,962; Sept. 21; Gaz. vol. 218; p. 637.
- Tobacco-stemming roll. J. P. Scovill. No. 1,145,441; July 6; Gaz. vol. 216; p. 163.
- Tobacco-stripping machine. W. P. Hammond. No. 1,140,456; May 25; Gaz. vol. 214; p. 1070.
- Tobacco to cigar and other similar machines, Device for delivering. E. Belot. No. 1,128,093; Feb. 9; Gaz. vol. 211; p. 542.
- Tobacco-treating process and apparatus. M. C. Patterson. No. 1,164,114; Dec. 14; Gaz. vol. 221; p. 528.
- Tobacco-user's accessory. A. Keller. No. 1,163,015; Dec. 7; Gaz. vol. 221; p. 98.
- Tobacco-wrapper counter. D. Strasses. No. 1,123,948; Jan. 5; Gaz. vol. 210; p. 255.
- Toe-board. J. G. Viche. No. 1,139,240; May 11; Gaz. vol. 214; p. 571.
- Toe-brake. H. F. Hammond. No. 1,164,810; Dec. 21; Gaz. vol. 221; p. 812.
- Toe-separator. A. Weil. No. 1,163,490; Dec. 7; Gaz. vol. 221; p. 264.
- Toes of uppers in lasted position, Means for binding. A. L. Russell. No. 1,124,960; Jan. 12; Gaz. vol. 210; p. 662.
- Toggle. J. G. Coughlin. No. 1,150,343; Aug. 17; Gaz. vol. 217; p. 829.
- Toggle. J. D. Coughlin. No. 1,165,759; Dec. 28; Gaz. vol. 221; p. 1183.
- Toggle. H. W. Winter. No. 1,140,428; May 25; Gaz. vol. 214; p. 1060.
- Toggle-bolt. C. Joseph. No. 1,145,423; July 6; Gaz. vol. 216; p. 156.
- Toilet. W. E. Somerville. No. 1,130,441; Mar. 2; Gaz. vol. 212; p. 209.
- Toilet appliance. J. A. F. Danner. No. 1,139,351; May 11; Gaz. vol. 214; p. 609.
- Toilet article. R. D. Leary. No. 1,134,467; Apr. 6; Gaz. vol. 213; p. 140.
- Toilet article. W. N. Sharp. No. 1,132,126; Mar. 16; Gaz. vol. 212; p. 868.
- Toilet attachment, Sanitary. M. H. Baldwin. No. 1,149,109; Aug. 3; Gaz. vol. 217; p. 218.
- Toilet-case. E. P. Bidwell. No. 1,126,360; Jan. 26; Gaz. vol. 210; p. 1232.
- Toilet device, Train. C. M. Williams. No. 1,166,291; Dec. 28; Gaz. vol. 221; p. 1373.
- Toilet-rack. M. Schreiner. No. 1,129,363; Feb. 23; Gaz. vol. 211; p. 1069.
- Toilet-seat. F. Cechal. No. 1,130,068; Mar. 2; Gaz. vol. 212; p. 79.
- Toilet-seat and means for retaining the same in position, Sanitary. J. J. Spillane. No. 1,163,380; Dec. 7; Gaz. vol. 221; p. 226.
- Toilet-seat, Hygienic. J. Sivak, A. Nagy, and L. Banduray. No. 1,142,374; June 8; Gaz. vol. 215; p. 489.
- Toilet-seat, Sanitary. H. B. Gray. No. 1,144,654; June 29; Gaz. vol. 215; p. 1373.
- Toilet-seat, Sanitary. R. D. and R. D. Mayo. No. 1,165,986; Dec. 28; Gaz. vol. 221; p. 1260.
- Toilet set, Traveler's. K. F. Benko. No. 1,164,979; Dec. 21; Gaz. vol. 221; p. 871.
- Toll-collecting apparatus, Coin-separator for. G. T. Buchanan. No. 1,143,357; June 15; Gaz. vol. 215; p. 873.
- Toll-collecting apparatus, Signal device for. G. T. Buchanan. No. 1,143,356; June 15; Gaz. vol. 215; p. 873.
- Toluene, Manufacture of derivatives of. J. Mairé. No. 1,124,496; Jan. 12; Gaz. vol. 210; p. 497.
- Tone-producing means. M. L. Severy and G. B. Sinclair. No. 1,137,544; Apr. 27; Gaz. vol. 213; p. 1348.
- Tong-carrier. W. M. Neckerman. No. 1,136,160; Apr. 20; Gaz. vol. 213; p. 817.
- Tongs. G. B. De Arment. No. 1,162,141; Nov. 30; Gaz. vol. 220; p. 1491.
- Tongs. A. Johns. No. 1,159,680; Nov. 9; Gaz. vol. 220; p. 477.
- Tongs. W. Smith. No. 1,140,200; May 18; Gaz. vol. 214; p. 946.
- Tongs. E. A. Stearman. No. 1,135,332; Apr. 13; Gaz. vol. 213; p. 486.
- Tongs. F. T. Thebert. No. 1,149,476; Aug. 10; Gaz. vol. 217; p. 455.
- Tongs and holder, Combined casing and tubing. B. Minkler. No. 1,127,066; Feb. 2; Gaz. vol. 211; p. 142.
- Tongs, Blacksmith's. T. H. Hyde. No. 1,129,294; Feb. 23; Gaz. vol. 211; p. 1045.
- Tongs, Brick-. L. F. Cahill. No. 1,135,992; Apr. 20; Gaz. vol. 213; p. 760.
- Tongs, Brick-handling. W. Sturm, Sr. No. 1,153,269; Sept. 14; Gaz. vol. 218; p. 357.
- Tongs, Clothes-. P. and J. Chowath. No. 1,158,637; Nov. 2; Gaz. vol. 220; p. 81.
- Tongs, Gripper-. J. Geist. No. 1,144,356; June 29; Gaz. vol. 215; p. 1274.
- Tongs, Pipe-. C. L. Dunham. No. 1,158,656; Nov. 2; Gaz. vol. 220; p. 88.
- Tongs, Pipe and casing. E. Kibele and W. G. Vreeland. No. 1,129,299; Feb. 23; Gaz. vol. 211; p. 1047.
- Tongs, Roofing-. M. D. Schaller. No. 1,151,053; Aug. 24; Gaz. vol. 217; p. 1130.
- Tongs support, Pipe-. T. B. Hoffer. No. 1,148,679; Aug. 3; Gaz. vol. 217; p. 71.
- Tongs, Tie-. C. L. Robbins. No. 1,124,806; Jan. 12; Gaz. vol. 210; p. 608.
- Tongue attachment, Vehicle. I. C. Brickey. No. 1,125,455; Jan. 19; Gaz. vol. 210; p. 875.
- Tongue construction. B. P. Hanson. No. 1,134,969; Apr. 6; Gaz. vol. 213; p. 316.
- Tongue coupling, Draft. C. M. Beach. No. 1,156,342; Oct. 12; Gaz. vol. 219; p. 377.
- Tongue draft appliance, Vehicle. R. T. Jenney. No. 1,137,977; May 4; Gaz. vol. 214; p. 89.
- Tongue or shaft releaser. H. W. Cater. No. 1,164,466; Dec. 14; Gaz. vol. 221; p. 651.
- Tongue, Spring wagon-. E. L. Hastings. No. 1,127,240; Feb. 2; Gaz. vol. 211; p. 203.
- Tongue-support. P. H. Webber. No. 1,128,393; Feb. 16; Gaz. vol. 211; p. 694.
- Tongue-support. H. I. West. No. 1,136,855; Apr. 20; Gaz. vol. 213; p. 1065.
- Tongue-support for vehicles. S. L. Bryson. No. 1,123,239; Jan. 5; Gaz. vol. 210; p. 13.
- Tongue support, Wagon-. S. G. Hopkins. No. 1,148,682; Aug. 3; Gaz. vol. 217; p. 72.
- Tongue-supporter. J. Jensen. No. 1,136,341; Apr. 20; Gaz. vol. 213; p. 881.
- Tongue-supporter. H. A. Johnson and V. J. Pearson. No. 1,142,578; June 8; Gaz. vol. 215; p. 561.
- Tongue, Vehicle-. D. Forniraseo. No. 1,134,835; Apr. 6; Gaz. vol. 213; p. 271.
- Tongue, Wagon-. O. F. Glaenske. No. 1,165,243; Dec. 21; Gaz. vol. 221; p. 964.
- Tongue, Wagon-. H. C. Zimmer. No. 1,146,227; July 13; Gaz. vol. 216; p. 458.
- Tonnage-regulator. E. H. Messiter. No. 1,125,705; Jan. 19; Gaz. vol. 210; p. 965.
- Tonsillotomy. S. G. Smith. No. 1,142,919; June 15; Gaz. vol. 215; p. 718.

Alphabetical list of inventions—Continued.

- Tool. C. L. Bell. No. 1,158,430; Nov. 2; Gaz. vol. 220; p. 6.
- Tool. J. W. Boling and J. F. Chlne. No. 1,125,945; Jan. 26; Gaz. vol. 210; p. 1080.
- Tool. F. F. Brucker. No. 1,159,646; Nov. 9; Gaz. vol. 220; p. 465.
- Tool. F. W. Cannon. No. 1,149,726; Aug. 10; Gaz. vol. 217; p. 546.
- Tool. J. Craig. No. 1,156,759; Oct. 12; Gaz. vol. 219; p. 524.
- Tool. T. W. Gaillard. No. 1,123,513; Jan. 5; Gaz. vol. 210; p. 108.
- Tool. O. D. Haggood. No. 1,166,364; Dec. 28; Gaz. vol. 221; p. 1398.
- Tool. S. Hill. No. 1,148,678; Aug. 3; Gaz. vol. 217; p. 71.
- Tool. R. Kincaid. No. 1,144,210; June 22; Gaz. vol. 215; p. 1195.
- Tool. L. F. Lorraine. No. 1,144,555; June 29; Gaz. vol. 215; p. 1340.
- Tool. A. L. Lucas. No. 1,160,920; Nov. 16; Gaz. vol. 220; p. 970.
- Tool. H. Nitteberg. No. 1,149,398; Aug. 10; Gaz. vol. 217; p. 428.
- Tool. J. J. Patterson. No. 1,142,617; June 8; Gaz. vol. 215; p. 574.
- Tool. E. T. Savage. No. 1,157,589; Oct. 19; Gaz. vol. 219; p. 844.
- Tool. O. Stenersen. No. 1,133,587; Mar. 30; Gaz. vol. 212; p. 1483.
- Tool. C. Thom. No. 1,152,239; Aug. 31; Gaz. vol. 217; p. 1584.
- Tool. F. P. Vaughan. No. 1,135,867; Apr. 13; Gaz. vol. 213; p. 675.
- Tool. E. C. Worns. No. 1,142,473; June 8; Gaz. vol. 215; p. 525.
- Tool-actuating device. H. H. Mercer and A. E. Champagne. No. 1,131,256; Mar. 9; Gaz. vol. 212; p. 524.
- Tool-actuating device. T. Officer. No. 1,129,420; Feb. 23; Gaz. vol. 211; p. 1089.
- Tool-actuating mechanism. A. Ball and H. H. Mercer. No. 1,160,683; Nov. 16; Gaz. vol. 220; p. 888.
- Tool and handle fastener. W. J. Higgs. No. 1,164,092; Dec. 14; Gaz. vol. 221; p. 521.
- Tool-box. L. W. Goodman. No. 1,131,128; Mar. 9; Gaz. vol. 212; p. 480.
- Tool, Chain-engaging. H. T. C. Meyer. No. 1,140,757; May 25; Gaz. vol. 214; p. 1174.
- Tool-chest. L. H. Forbes and F. W. Barkley. No. 1,162,854; Dec. 7; Gaz. vol. 221; p. 43.
- Tool-clamp. C. W. Beck. No. 1,143,025; June 15; Gaz. vol. 215; p. 756.
- Tool, Combination-. J. F. Anderson. No. 1,125,433; Jan. 19; Gaz. vol. 210; p. 867.
- Tool, Combination-. H. M. Demmer. No. 1,139,648; May 18; Gaz. vol. 214; p. 751.
- Tool, Combination-. A. Eudy. No. 1,132,248; Mar. 16; Gaz. vol. 212; p. 914.
- Tool, Combination-. C. G. Freudinger. No. 1,132,252; Mar. 16; Gaz. vol. 212; p. 916.
- Tool, Combination-. C. J. Gartland. No. 1,163,230; Dec. 7; Gaz. vol. 221; p. 173.
- Tool, Combination-. M. Hamalainen. No. 1,142,418; June 8; Gaz. vol. 215; p. 506.
- Tool, Combination-. O. N. Plante. No. 1,141,141; June 1; Gaz. vol. 215; p. 18.
- Tool, Combination-. A. J. Schemmer. No. 1,138,153; May 4; Gaz. vol. 214; p. 152.
- Tool, Combination-. J. T. Sweeney. No. 1,159,432; Nov. 9; Gaz. vol. 220; p. 389.
- Tool, Combination-. J. H. Walker. No. 1,135,743; Apr. 13; Gaz. vol. 213; p. 631.
- Tool, Combination-. L. Weinstein. No. 1,126,324; Jan. 26; Gaz. vol. 210; p. 1219.
- Tool, Combination-. L. Weinstein. No. 1,139,938; May 18; Gaz. vol. 214; p. 853.
- Tool, Combination-. A. C. Witter. No. 1,158,092; Oct. 26; Gaz. vol. 219; p. 1086.
- Tool, Combination garden and farm. J. A. Davis. No. 1,129,338; Feb. 23; Gaz. vol. 211; p. 1060.
- Tool, Combination pocket-. G. F. Miller and H. M. Koneiska. No. 1,136,826; Apr. 20; Gaz. vol. 213; p. 1055.
- Tool, Compound. S. E. Dent. No. 1,140,128; May 18; Gaz. vol. 214; p. 922.
- Tool, Compound. T. B. Stephenson. No. 1,142,065; June 8; Gaz. vol. 215; p. 381.
- Tool, Demountable-rlm. J. H. Wagenhorst. No. 1,160,220; Nov. 16; Gaz. vol. 220; p. 721.
- Tool, Double-cut. E. S. Clarke. No. 1,135,757; Apr. 13; Gaz. vol. 213; p. 427.
- Tool, Electrically-heated. J. S. Hansen. No. 1,136,127; Apr. 20; Gaz. vol. 213; p. 805.
- Tool, Electrically-heated. W. I. Thompson. No. 1,157,343; Oct. 19; Gaz. vol. 219; p. 761.
- Tool, Expandible. W. A. Denney. No. 1,126,961; Feb. 2; Gaz. vol. 211; p. 103.
- Tool, Fluid-operated. L. W. Greve. No. 1,134,123; Apr. 6; Gaz. vol. 213; p. 14.
- Tool, Fluid-operated. L. W. Greve. No. 1,135,178; Apr. 13; Gaz. vol. 213; p. 434.
- Tool, Fluid-operated percussive. L. C. Bayles. No. 1,126,943; Feb. 2; Gaz. vol. 211; p. 97.
- Tool, Fluid-operated percussive. L. C. Bayles. No. 1,126,944; Feb. 2; Gaz. vol. 211; p. 98.
- Tool for truing cylindrical objects. W. J. Burgess. No. 1,146,305; July 13; Gaz. vol. 216; p. 485.
- Tool, Hand-. W. A. Bernard. No. 1,159,641; Nov. 9; Gaz. vol. 220; p. 464.
- Tool, Hand-. W. A. Bernard. No. 1,162,439; Nov. 30; Gaz. vol. 220; p. 1593.
- Tool, Hand-. W. A. Bernard. No. 1,162,440; Nov. 30; Gaz. vol. 220; p. 1594.
- Tool, Hand-. W. A. Bernard. No. 1,164,981; Dec. 21; Gaz. vol. 221; p. 871.
- Tool-handle. A. Flaven-Micalet. No. 1,124,779; Jan. 12; Gaz. vol. 210; p. 598.
- Tool-handle. A. B. Jennings. No. 1,144,710; June 29; Gaz. vol. 215; p. 1393.
- Tool-handle. J. W. Rummel. No. 1,153,340; Sept. 14; Gaz. vol. 218; p. 382.
- Tool-handle, Auxiliary. W. A. Vance. No. 1,161,270; Nov. 23; Gaz. vol. 220; p. 1141.
- Tool-handle connection. R. E. Alcorn. No. 1,128,650; Feb. 16; Gaz. vol. 211; p. 783.
- Tool-handle, Detachable. E. Anheuser. No. 1,147,204; July 20; Gaz. vol. 216; p. 821.
- Tool-handle, Detachable. A. L. Ligon. No. 1,152,327; Aug. 31; Gaz. vol. 217; p. 1614.
- Tool handle, Electric. F. A. Rowley. No. 1,153,575; Sept. 14; Gaz. vol. 218; p. 469.
- Tool-handle fastener. E. J. Weaver. No. 1,158,345; Oct. 26; Gaz. vol. 219; p. 1173.
- Tool-handle fastening. T. G. Selleck. No. 1,157,593; Oct. 19; Gaz. vol. 219; p. 846.
- Tool-handle, Metal. D. Eastman. No. 1,158,032; Oct. 26; Gaz. vol. 219; p. 1064.
- Tool-heater, Adjustable double-burner. A. D. Horne. No. 1,148,089; July 27; Gaz. vol. 216; p. 1159.
- Tool-holder. G. Amborn. No. 1,158,100; Oct. 26; Gaz. vol. 219; p. 1089.
- Tool-holder. P. J. Boucher. No. 1,141,864; June 1; Gaz. vol. 215; p. 270.
- Tool-holder. J. M. Carpenter. No. 1,160,042; Nov. 9; Gaz. vol. 220; p. 606.
- Tool-holder. S. G. Grady. No. 1,146,770; July 13; Gaz. vol. 216; p. 648.
- Tool-holder. G. L. Green. No. 1,165,500; Dec. 28; Gaz. vol. 221; p. 1091.
- Tool-holder. C. Grunbauch. No. 1,154,010; Sept. 21; Gaz. vol. 218; p. 654.
- Tool-holder. H. B. Mace. No. 1,128,165; Feb. 9; Gaz. vol. 211; p. 567.
- Tool-holder. G. H. Mason. No. 1,131,538; Mar. 9; Gaz. vol. 212; p. 622.
- Tool-holder. L. Radell. No. 1,134,637; Apr. 6; Gaz. vol. 213; p. 202.
- Tool-holder. G. S. Radford. No. 1,154,804; Sept. 28; Gaz. vol. 218; p. 954.
- Tool-holder. C. B. Sechrest. No. 1,140,772; May 25; Gaz. vol. 214; p. 1178.
- Tool-holder. H. P. Swinburne and G. S. Crawford. No. 1,148,202; July 27; Gaz. vol. 216; p. 1199.
- Tool-holder. W. A. Weaver. No. 1,124,981; Jan. 12; Gaz. vol. 210; p. 670.
- Tool holder, Multiple. W. L. Schellenbach. No. 1,152,055; Aug. 31; Gaz. vol. 217; p. 1520.
- Tool-holding device, Pocket. L. Gingras. No. 1,163,526; Dec. 7; Gaz. vol. 221; p. 277.
- Tool, Machine-. L. R. Wheeler. No. 1,144,744; June 29; Gaz. vol. 215; p. 1406.
- Tool, Percussive. L. C. Bayles. No. 1,138,179; May 4; Gaz. vol. 214; p. 161.
- Tool, Percussive. L. C. Bayles. No. 1,142,478; June 8; Gaz. vol. 215; p. 527.
- Tool, Percussive. A. H. Gibson. No. 1,138,209; May 4; Gaz. vol. 214; p. 170.
- Tool, Pneumatic. B. Brazelle. No. 1,132,649; Mar. 23; Gaz. vol. 212; p. 1108.
- Tool, Pneumatic. B. M. Carmina. No. 1,142,671; June 8; Gaz. vol. 215; p. 592.
- Tool, Pneumatic. C. Christiansen. No. 1,157,924; Oct. 26; Gaz. vol. 219; p. 1026.
- Tool, Pneumatic. J. F. Clement. No. 1,160,578; Nov. 16; Gaz. vol. 220; p. 847.
- Tool, Pneumatic. G. H. Gilman. No. 1,148,310; July 27; Gaz. vol. 216; p. 1237.
- Tool, Pneumatic. G. H. Gilman. No. 1,152,624; Sept. 7; Gaz. vol. 218; p. 90.
- Tool, Pneumatic. C. O. Palmer. No. 1,154,797; Sept. 28; Gaz. vol. 218; p. 953.
- Tool, Pneumatic. M. W. Sherwood. No. 1,157,430; Oct. 19; Gaz. vol. 219; p. 794.
- Tool, Pressure-actuated. G. H. Gilman. No. 1,143,533; June 15; Gaz. vol. 215; p. 933.
- Tool, Pressure-actuated. G. H. Gilman. No. 1,143,534; June 15; Gaz. vol. 215; p. 933.
- Tool, Pressure developing and driven. A. Palmros. No. 1,148,188; July 27; Gaz. vol. 216; p. 1194.
- Tool, Pressure-driven reciprocating. A. Palmros. (Re-issue). No. 13,882; Feb. 16; Gaz. vol. 211; p. 928.
- Tool, Pressure-fed. G. H. Gilman. No. 1,150,592; Aug. 17; Gaz. vol. 217; p. 915.
- Tool, Pulsator-driven percussive. A. H. Gibson. No. 1,142,514; June 8; Gaz. vol. 215; p. 540.

Alphabetical list of inventions—Continued.

- Tool, Pulsatory. C. A. Dawley. No. 1,154,977; Sept. 28; Gaz. vol. 218; p. 1012.
- Tool, Punching-. C. C. Gladwin. No. 1,147,234; July 20; Gaz. vol. 216; p. 831.
- Tool, Recess-cutting. T. I. Gibson. No. 1,135,890; Apr. 13; Gaz. vol. 213; p. 682.
- Tool-retainer. J. T. Sullivan. No. 1,137,423; May 4; Gaz. vol. 214; p. 70.
- Tool-retainer, Safety. S. S. Roberts. No. 1,142,983; June 15; Gaz. vol. 215; p. 741.
- Tool, Rim-. A. Calleson. No. 1,140,023; May 18; Gaz. vol. 214; p. 884.
- Tool-support, Narrow. W. Schellenbach, W. Lodge, and N. D. Chard. No. 1,154,939; Sept. 28; Gaz. vol. 218; p. 1000.
- Tool with detachable cutter, Percussive. F. Ondra. No. 1,135,546; Apr. 13; Gaz. vol. 213; p. 561.
- Tool, Work-holding. L. W. Strycker. No. 1,133,334; Mar. 30; Gaz. vol. 212; p. 1392.
- Tools, Apparatus for leveling the ends of. A. Bates. No. 1,129,059; Feb. 23; Gaz. vol. 211; p. 963.
- Tools, Compressed-air apparatus for operating pneumatic. C. O. Palmer. No. 1,154,794; Sept. 28; Gaz. vol. 218; p. 951.
- Tools, Compressed-air apparatus for operating pneumatic. C. O. Palmer. No. 1,154,795; Sept. 28; Gaz. vol. 218; p. 951.
- Tools, Compressed-air apparatus for operating pneumatic. C. O. Palmer. No. 1,154,796; Sept. 28; Gaz. vol. 218; p. 952.
- Tools, Compressed-air system for operating pneumatic. C. O. Palmer. No. 1,154,793; Sept. 28; Gaz. vol. 218; p. 950.
- Tools, Handle and inlet-controlling-valve construction for pneumatic. F. A. Jmerson. No. 1,160,617; Nov. 16; Gaz. vol. 220; p. 862.
- Tools, Lost-motion take-up for. J. G. Baker. No. 1,141,602; June 1; Gaz. vol. 215; p. 184.
- Tools, Making hand-. G. A. Wood. No. 1,139,392; May 11; Gaz. vol. 214; p. 624.
- Tools, Safety locking device for pneumatic. J. W. Harrison. No. 1,125,521; Jan. 19; Gaz. vol. 210; p. 897.
- Tools, Throttle-handle for pneumatic. L. H. Smith. No. 1,150,641; Aug. 17; Gaz. vol. 217; p. 932.
- Tooth anchor, Artificial. W. F. Shaw. No. 1,158,732; Nov. 2; Gaz. vol. 220; p. 112.
- Tooth and making same, Artificial. B. E. Eldred. No. 1,133,434; Mar. 30; Gaz. vol. 212; p. 1427.
- Tooth and pin therefor, Crown-. J. L. Williams. No. 1,149,239; Aug. 10; Gaz. vol. 217; p. 370.
- Tooth, Artificial. F. L. Argall. No. 1,149,016; Aug. 3; Gaz. vol. 217; p. 189.
- Tooth, Artificial. A. N. Davis. No. 1,146,556; July 13; Gaz. vol. 216; p. 575.
- Tooth, Artificial. J. G. Dettinger, Jr., and F. H. Welker. No. 1,130,892; Mar. 9; Gaz. vol. 212; p. 401.
- Tooth, Artificial. E. B. Fewell. No. 1,155,904; Oct. 5; Gaz. vol. 219; p. 202.
- Tooth, Artificial. G. E. Fritz. No. 1,135,007; Apr. 13; Gaz. vol. 213; p. 375.
- Tooth, Artificial. G. E. Fritz. No. 1,136,664; Apr. 20; Gaz. vol. 213; p. 997.
- Tooth, Artificial. J. A. Gardner. No. 1,139,265; May 11; Gaz. vol. 214; p. 580.
- Tooth, Artificial. A. E. Gibson. No. 1,139,028; May 11; Gaz. vol. 214; p. 499.
- Tooth, Artificial. T. F. Glenn. No. 1,163,141; Dec. 7; Gaz. vol. 221; p. 141.
- Tooth, Artificial. B. B. Lewis. No. 1,161,141; Nov. 23; Gaz. vol. 220; p. 1093.
- Tooth, Artificial. A. F. Libbey. No. 1,142,897; June 15; Gaz. vol. 215; p. 711.
- Tooth, Artificial. T. G. McMahon. No. 1,128,703; Feb. 16; Gaz. vol. 211; p. 802.
- Tooth, Artificial. F. H. Nies and J. F. Caretto. No. 1,137,015; Apr. 27; Gaz. vol. 213; p. 1159.
- Tooth, Artificial. A. H. Taylor. No. 1,134,965; Apr. 6; Gaz. vol. 213; p. 314.
- Tooth, Artificial. F. T. Van Woert. No. 1,142,385; June 8; Gaz. vol. 215; p. 494.
- Tooth, Artificial. G. M. Whiteley, Jr. No. 1,144,336; June 22; Gaz. vol. 215; p. 1238.
- Tooth, Artificial. J. L. Williams. No. 1,139,615; May 18; Gaz. vol. 214; p. 739.
- Tooth-cleaner. J. B. Nesper. No. 1,157,413; Oct. 19; Gaz. vol. 219; p. 787.
- Tooth-cleaner, Sanitary. E. G. Over. No. 1,144,777; June 29; Gaz. vol. 215; p. 1417.
- Tooth-cleaning device. G. L. Reenstierna. No. 1,128,045; Feb. 9; Gaz. vol. 211; p. 525.
- Tooth-cleaning instrument. M. Gallas. No. 1,161,043; Nov. 23; Gaz. vol. 220; p. 1059.
- Tooth, Crown-. A. Fernald. No. 1,164,599; Dec. 14; Gaz. vol. 221; p. 695.
- Tooth facing and backing therefor, Artificial-. G. Holtz. No. 1,157,309; Oct. 19; Gaz. vol. 219; p. 750.
- Tooth facing with backing adjustment, Artificial-. F. E. Hart. No. 1,157,534; Oct. 19; Gaz. vol. 219; p. 829.
- Tooth, Fastening for an artificial. J. W. Ivory. No. 1,134,680; Apr. 6; Gaz. vol. 213; p. 218.
- Tooth, Interchangeable. I. J. Fink. No. 1,163,074; Dec. 7; Gaz. vol. 221; p. 118.
- Tooth-paste-dispensing device. R. S. Smart. No. 1,156,106; Oct. 12; Gaz. vol. 219; p. 298.
- Tooth-regulating appliance. F. W. Drissler. No. 1,139,170; May 11; Gaz. vol. 214; p. 548.
- Toothpick-dispenser, Sanitary. H. W. C. Prommel. No. 1,146,447; July 13; Gaz. vol. 216; p. 537.
- Toothpick-holder. C. Dickson. No. 1,141,751; June 1; Gaz. vol. 215; p. 244.
- Toothpick-holder. J. Ocken, Jr. No. 1,162,874; Dec. 7; Gaz. vol. 221; p. 49.
- Toothpicks or other sticklike devices, Holder for. T. and C. M. Bartholomew. No. 1,125,933; Jan. 26; Gaz. vol. 210; p. 1075.
- Top. E. D. Conklin. No. 1,164,991; Dec. 21; Gaz. vol. 221; p. 875.
- Top. M. E. Crandall. No. 1,123,697; Jan. 5; Gaz. vol. 210; p. 170.
- Top. H. M. Howard. No. 1,144,938; June 29; Gaz. vol. 215; p. 1471.
- Top-roll-saddle mechanism. L. T. Houghton. No. 1,158,220; Oct. 26; Gaz. vol. 219; p. 1130.
- Top, Spinning-. L. L. Joseph. No. 1,160,618; Nov. 16; Gaz. vol. 220; p. 862.
- Top, Spinning-. F. K. Williams. No. 1,158,352; Oct. 26; Gaz. vol. 219; p. 1175.
- Torch. D. Andres. No. 1,145,875; July 13; Gaz. vol. 216; p. 335.
- Torch. B. Custer. No. 1,137,191; Apr. 27; Gaz. vol. 213; p. 1222.
- Torch. A. J. and I. F. Fausek. No. 1,139,959; May 16; Gaz. vol. 214; p. 860.
- Torch. C. G. Filzer. No. 1,135,368; Apr. 13; Gaz. vol. 213; p. 498.
- Torch. J. S. Frederickson. No. 1,138,549; May 4; Gaz. vol. 214; p. 289.
- Torch. M. Rocksted. No. 1,134,231; Apr. 6; Gaz. vol. 213; p. 54.
- Torch. F. J. Taylor. No. 1,156,256; Oct. 12; Gaz. vol. 219; p. 347.
- Torch, Acetylene-. C. Johnson. No. 1,147,403; July 20; Gaz. vol. 216; p. 891.
- Torch, Alcohol-. A. H. Melenbacker. No. 1,152,745; Sept. 7; Gaz. vol. 218; p. 134.
- Torch, Blow-. C. G. Filzer. No. 1,135,367; Apr. 13; Gaz. vol. 213; p. 497.
- Torch, Blow-. R. M. G. Phillips. No. 1,152,214; Aug. 31; Gaz. vol. 217; p. 1575.
- Torch, Cutting. E. H. Smith. No. 1,136,490; Apr. 20; Gaz. vol. 213; p. 937.
- Torch-holder. C. R. Lambert. No. 1,153,630; Sept. 14; Gaz. vol. 218; p. 487.
- Torch, Oxo-acetylene welding-. J. G. Pettis. No. 1,151,496; Aug. 24; Gaz. vol. 217; p. 1280.
- Torch, Safety carbon-removing. C. A. Davis and F. E. Reigle. No. 1,127,867; Feb. 9; Gaz. vol. 211; p. 463.
- Torch, Welding-. B. Custer. No. 1,154,974; Sept. 28; Gaz. vol. 218; p. 1011.
- Torch, Welding-. C. Springer. No. 1,159,119; Nov. 2; Gaz. vol. 220; p. 244.
- Torch, Welding-. S. H. Tolman. No. 1,141,669; June 1; Gaz. vol. 215; p. 207.
- Torpedo. G. P. Helfrich. No. 1,133,282; Mar. 30; Gaz. vol. 212; p. 1373.
- Torpedo. H. W. Kelly. No. 1,124,748; Jan. 12; Gaz. vol. 210; p. 587.
- Torpedo. G. A. Knox. No. 1,163,158; Dec. 7; Gaz. vol. 221; p. 148.
- Torpedo, Aerial. J. M. Saladiner. No. 1,152,226; Aug. 31; Gaz. vol. 217; p. 1579.
- Torpedo and other submarine apparatus. K. O. Leon. No. 1,137,222; Apr. 27; Gaz. vol. 213; p. 1234.
- Torpedo, Automobile. W. Dieter. No. 1,125,979; Jan. 26; Gaz. vol. 210; p. 1093.
- Torpedo, Automobile. W. Dieter. No. 1,148,155; July 27; Gaz. vol. 216; p. 1182.
- Torpedo, Automobile. E. Schneider. No. 1,143,232; June 15; Gaz. vol. 215; p. 830.
- Torpedo, Automobile. E. Schneider. No. 1,145,389; July 6; Gaz. vol. 216; p. 144.
- Torpedo, Automobile. H. W. Shonnard. No. 1,163,607; Dec. 7; Gaz. vol. 221; p. 306.
- Torpedo, Automobile-. F. E. Smith. No. 1,147,275; July 20; Gaz. vol. 216; p. 844.
- Torpedo-depth recorder. W. Dieter. No. 1,152,493; Sept. 7; Gaz. vol. 218; p. 40.
- Torpedo, Dirigible. M. P. Otto. No. 1,154,427; Sept. 21; Gaz. vol. 218; p. 797.
- Torpedo-driving mechanism. F. C. B. Page. No. 1,155,435; Oct. 5; Gaz. vol. 219; p. 39.
- Torpedo-expulsion tube. J. Barraja-Frauenfelder. No. 1,161,182; Nov. 23; Gaz. vol. 220; p. 1108.
- Torpedo, Fiber-case railway-. F. Dutcher. No. 1,137,710; Apr. 27; Gaz. vol. 213; p. 1402.
- Torpedo, Fiber-case railway-. F. Dutcher. No. 1,153,048; Sept. 7; Gaz. vol. 218; p. 243.
- Torpedo-firing tubes, Safety mechanism for operating the muzzle and breech doors of. J. Barraja-Frauenfelder. No. 1,158,844; Nov. 2; Gaz. vol. 220; p. 168.
- Torpedo governor, Automobile-. F. M. Leavitt. No. 1,124,752; Jan. 12; Gaz. vol. 210; p. 588.
- Torpedo-guard. A. M. Evans. No. 1,139,113; May 11; Gaz. vol. 214; p. 529.

Alphabetical list of inventions—Continued.

- Torpedo-guard. E. R. Trammell. No. 1,139,239; May 11; Gaz. vol. 214; p. 571.
- Torpedoes, Gyroscopic steering mechanism for automobile. F. W. Dodd. No. 1,156,350; Oct. 12; Gaz. vol. 219; p. 380.
- Torpedo, Gyroscopically-controlled. E. F. Chandler. No. 1,127,403; Feb. 9; Gaz. vol. 211; p. 298.
- Torpedo, Gyroscopically-controlled. H. W. Shonnard. No. 1,163,606; Dec. 7; Gaz. vol. 221; p. 305.
- Torpedo-holder. W. J. Strohm. No. 1,142,640; June 8; Gaz. vol. 215; p. 582.
- Torpedo-launching tube. W. Dieter. No. 1,149,505; Aug. 10; Gaz. vol. 217; p. 465.
- Torpedo lubrication, Automobile. F. M. Leavitt. No. 1,150,777; Aug. 17; Gaz. vol. 217; p. 977.
- Torpedo mechanism starter. G. A. Knox. No. 1,163,159; Dec. 7; Gaz. vol. 221; p. 149.
- Torpedo-nets for facilitating the manipulation or brailing thereof, Connection with duplex or multiple arrangement of. G. M. Selby. No. 1,145,806; July 6; Gaz. vol. 216; p. 290.
- Torpedo pressure-gage. M. J. Werner. No. 1,126,146; Jan. 26; Gaz. vol. 210; p. 1154.
- Torpedo-protecting net for ships. J. Bognár. No. 1,164,778; Dec. 21; Gaz. vol. 221; p. 800.
- Torpedo, Railway signal-. F. Dutcher. No. 1,125,673; Jan. 19; Gaz. vol. 210; p. 952.
- Torpedo, Railway signal-. F. Dutcher. No. 1,137,588; Apr. 27; Gaz. vol. 213; p. 1363.
- Torpedo, Railway signal-. F. Dutcher. No. 1,137,589; Apr. 27; Gaz. vol. 213; p. 1363.
- Torpedo, Railway signal-. F. Dutcher. No. 1,153,047; Sept. 7; Gaz. vol. 218; p. 242.
- Torpedo, Railway signal-. F. Dutcher. No. 1,158,993; Nov. 2; Gaz. vol. 220; p. 203.
- Torpedo, Railway signal-. F. Dutcher. No. 1,158,994; Nov. 2; Gaz. vol. 220; p. 203.
- Torpedo, Railway signal-. F. Dutcher. No. 1,161,638; Nov. 23; Gaz. vol. 220; p. 1269.
- Torpedo, Return-. G. P. Johnson. No. 1,152,640; Sept. 7; Gaz. vol. 218; p. 96.
- Torpedo-saving device. E. Durr. No. 1,130,585; Mar. 2; Gaz. vol. 212; p. 261.
- Torpedo, Self-propelled. R. Delaunay-Belleville. No. 1,151,165; Aug. 24; Gaz. vol. 217; p. 1169.
- Torpedo-shell. W. Dieter. No. 1,151,763; Aug. 31; Gaz. vol. 217; p. 1418.
- Torpedo-signal holder. D. D. McDermott. No. 1,126,050; Jan. 26; Gaz. vol. 210; p. 1118.
- Torpedo-testing apparatus. W. Dieter. No. 1,134,039; Mar. 30; Gaz. vol. 212; p. 1639.
- Torpedo-tubes or the like, Mounting for. H. H. Parsons. No. 1,164,957; Dec. 21; Gaz. vol. 221; p. 863.
- Torpedo, Turbine-driven. G. C. Davison. No. 1,126,183; Jan. 26; Gaz. vol. 210; p. 1169.
- Torpedoes, Check-valve for automobile. W. Dieter. No. 1,146,557; July 13; Gaz. vol. 216; p. 575.
- Torpedoes, Driving-gear for. W. Dieter. No. 1,145,355; July 6; Gaz. vol. 216; p. 131.
- Torpedoes, Fuel-atomizer for self-propelled. C. Radiguer. No. 1,124,948; Jan. 12; Gaz. vol. 210; p. 658.
- Torpedoes, Increasing the energy of a fluid-motor in motor-driven. M. Bruniquel. No. 1,154,609; Sept. 28; Gaz. vol. 218; p. 886.
- Torpedoes, Manufacturing. W. C. Beckwith. No. 1,154,164; Sept. 21; Gaz. vol. 218; p. 706.
- Torpedoes, &c., Protection against. H. B. Newhall, Jr., and E. N. Hescoco. No. 1,151,607; Aug. 31; Gaz. vol. 217; p. 1366.
- Torpedoes, Reducing-valve for automobile. W. Dieter. No. 1,136,660; Apr. 20; Gaz. vol. 213; p. 996.
- Torpedoes, Speed control for automobile-. W. Dieter. No. 1,131,341; Mar. 9; Gaz. vol. 212; p. 554.
- Torpedoes, Water-jacketed gear-casing for. R. Delaunay-Belleville. No. 1,130,491; Mar. 2; Gaz. vol. 212; p. 229.
- Torpedo's propeller, Device to prevent the admission of water into the interior of the hollow shaft of a. C. Radiguer. No. 1,154,206; Sept. 21; Gaz. vol. 218; p. 720.
- Torsion-meter. J. F. Metten. No. 1,164,839; Dec. 21; Gaz. vol. 221; p. 822.
- Torsion-meter. T. B. Thompson. No. 1,125,766; Jan. 19; Gaz. vol. 210; p. 985.
- Torsion-meter. E. G. Turner. No. 1,135,741; Apr. 13; Gaz. vol. 213; p. 630.
- Totalizer-resetting mechanism. G. P. Geiger. No. 1,129,974; Mar. 2; Gaz. vol. 212; p. 47.
- Toupee. H. B. Lombard. No. 1,144,658; June 29; Gaz. vol. 215; p. 1374.
- Toupee. L. S. Samuel. No. 1,148,539; Aug. 3; Gaz. vol. 217; p. 20.
- Tow-line. J. D. Bascom. No. 1,149,807; Aug. 10; Gaz. vol. 217; p. 575.
- Tow-line. H. Walles. No. 1,145,722; July 6; Gaz. vol. 216; p. 262.
- Towing apparatus. C. D. C. Buuck. No. 1,129,380; Feb. 23; Gaz. vol. 211; p. 1075.
- Towing apparatus. C. D. C. Buuck. No. 1,157,674; Oct. 26; Gaz. vol. 219; p. 939.
- Towel-rack. J. G. Painton. No. 1,139,366; May 11; Gaz. vol. 214; p. 615.
- Towel-rack. F. C. Stiefel. No. 1,141,664; June 1; Gaz. vol. 215; p. 205.
- Towel rack, Individual-. W. and T. L. McClellan. No. 1,124,931; Jan. 12; Gaz. vol. 210; p. 651.
- Towel rack, Single-service-. R. E. Barber. No. 1,129,623; Feb. 23; Gaz. vol. 211; p. 1161.
- Tower, Cooling-. J. F. Grace. No. 1,142,809; June 15; Gaz. vol. 215; p. 680.
- Toxic product and making same. J. A. De Cew. No. 1,155,708; Oct. 5; Gaz. vol. 219; p. 134.
- Toy. E. Allison. No. 1,152,067; Aug. 31; Gaz. vol. 217; p. 1525.
- Toy. J. Sr., and J. Banovitch, Jr. No. 1,127,388; Feb. 9; Gaz. vol. 211; p. 293.
- Toy. T. Bartholomew. No. 1,162,674; Nov. 30; Gaz. vol. 220; p. 1670.
- Toy. A. F. Brest. No. 1,129,065; Feb. 23; Gaz. vol. 211; p. 964.
- Toy. W. J. Carter. No. 1,151,663; Aug. 31; Gaz. vol. 217; p. 1384.
- Toy. D. P. Clark and C. F. Black. No. 1,128,291; Feb. 16; Gaz. vol. 211; p. 661.
- Toy. J. H. Collins. No. 1,129,551; Feb. 23; Gaz. vol. 211; p. 1135.
- Toy. A. Downey. No. 1,162,687; Nov. 30; Gaz. vol. 220; p. 1674.
- Toy. H. C. Fouts. No. 1,160,059; Nov. 9; Gaz. vol. 220; p. 611.
- Toy. H. R. Furrow. No. 1,133,719; Mar. 30; Gaz. vol. 212; p. 1531.
- Toy. G. W. Gerding. No. 1,141,389; June 1; Gaz. vol. 215; p. 109.
- Toy. M. T. Gregg. No. 1,141,459; June 1; Gaz. vol. 215; p. 133.
- Toy. W. F. Hartman. No. 1,150,761; Aug. 17; Gaz. vol. 217; p. 972.
- Toy. W. S. Hendren. No. 1,129,801; Feb. 23; Gaz. vol. 211; p. 1218.
- Toy. J. Isaacs. No. 1,152,639; Sept. 7; Gaz. vol. 218; p. 96.
- Toy. J. A. King. No. 1,146,333; July 13; Gaz. vol. 216; p. 495.
- Toy. J. C. Lobato. No. 1,151,957; Aug. 31; Gaz. vol. 217; p. 1486.
- Toy. H. T. Logan. No. 1,150,440; Aug. 17; Gaz. vol. 217; p. 860.
- Toy. R. Lukstat. No. 1,157,166; Oct. 19; Gaz. vol. 219; p. 698.
- Toy. J. T. Miller. No. 1,135,828; Apr. 13; Gaz. vol. 213; p. 662.
- Toy. H. J. Mitchell. No. 1,154,331; Sept. 21; Gaz. vol. 218; p. 764.
- Toy. W. W. Nash. No. 1,159,253; Nov. 2; Gaz. vol. 220; p. 294.
- Toy. G. Otstat. No. 1,124,794; Jan. 12; Gaz. vol. 210; p. 604.
- Toy. E. F. Otto. No. 1,159,261; Nov. 2; Gaz. vol. 220; p. 296.
- Toy. M. C. Pacheco. No. 1,145,165; July 6; Gaz. vol. 216; p. 66.
- Toy. D. T. Phillips. No. 1,153,250; Sept. 14; Gaz. vol. 218; p. 350.
- Toy. L. H. Phyfe. No. 1,144,723; June 29; Gaz. vol. 215; p. 1399.
- Toy. D. Ronconi. No. 1,132,796; Mar. 23; Gaz. vol. 212; p. 1162.
- Toy. C. Schindler. No. 1,145,219; July 6; Gaz. vol. 216; p. 84.
- Toy. L. H. Seifert. No. 1,150,971; Aug. 24; Gaz. vol. 217; p. 1103.
- Toy. A. Sebestyen. No. 1,164,411; Dec. 14; Gaz. vol. 221; p. 632.
- Toy. M. Smolik. No. 1,131,166; Mar. 9; Gaz. vol. 212; p. 493.
- Toy. W. J. Thomas. No. 1,127,943; Feb. 9; Gaz. vol. 211; p. 490.
- Toy. J. L. Thompson. No. 1,143,867; June 22; Gaz. vol. 215; p. 1072.
- Toy. J. Tosta. No. 1,141,434; June 1; Gaz. vol. 215; p. 125.
- Toy. C. M. Watrous. No. 1,130,865; Mar. 9; Gaz. vol. 212; p. 391.
- Toy. J. Weiss. No. 1,123,633; Jan. 5; Gaz. vol. 210; p. 149.
- Toy. M. Williams. No. 1,123,637; Jan. 5; Gaz. vol. 210; p. 150.
- Toy. E. C. Zipfel. No. 1,159,882; Nov. 9; Gaz. vol. 220; p. 550.
- Toy, Acrobatic. J. D. Braught. No. 1,143,495; June 15; Gaz. vol. 215; p. 920.
- Toy, Aerial. C. M. Olmsted. No. 1,138,401; May 4; Gaz. vol. 214; p. 241.
- Toy, Aerial. F. S. Pierson. No. 1,144,914; June 29; Gaz. vol. 215; p. 1463.
- Toy aeroplane. C. Wanders. No. 1,165,303; Dec. 21; Gaz. vol. 221; p. 983.
- Toy and bank, Combined figure. H. W. A. Fuhrmann. No. 1,163,817; Dec. 14; Gaz. vol. 221; p. 426.
- Toy and physical-culture apparatus, Combined. E. Sandow. No. 1,123,570; Jan. 5; Gaz. vol. 210; p. 127.
- Toy and the like, Collapsible. C. Needleman. No. 1,128,031; Feb. 9; Gaz. vol. 211; p. 520.

Alphabetical list of inventions—Continued.

- Toy, Animal. L. Allis. No. 1,149,170; Aug. 10; Gaz. vol. 217; p. 345.
- Toy, Animated. A. Gund. No. 1,146,700; July 13; Gaz. vol. 216; p. 623.
- Toy, Automatic. J. W. Colglazier. No. 1,139,955; May 18; Gaz. vol. 214; p. 859.
- Toy balloon. F. F. Brucker. No. 1,136,932; Apr. 27; Gaz. vol. 213; p. 1128.
- Toy balloon. F. J. Creque. No. 1,137,385; Apr. 27; Gaz. vol. 213; p. 1294.
- Toy balloon. A. H. Du Bois. No. 1,151,093; Aug. 24; Gaz. vol. 217; p. 1143.
- Toy balloon. R. Griffith. No. 1,158,206; Oct. 26; Gaz. vol. 219; p. 1125.
- Toy bank. E. N. Kindland. No. 1,155,583; Oct. 5; Gaz. vol. 219; p. 89.
- Toy bank. P. J. Nagle. No. 1,151,606; Aug. 31; Gaz. vol. 217; p. 1366.
- Toy bank. J. W. Schmitt. No. 1,147,978; July 27; Gaz. vol. 216; p. 1118.
- Toy block. E. D. Litchfield. No. 1,124,631; Jan. 12; Gaz. vol. 210; p. 546.
- Toy blocks for building arches. W. Vershofen. No. 1,124,078; Jan. 5; Gaz. vol. 210; p. 299.
- Toy boat. L. Brudick. No. 1,150,168; Aug. 17; Gaz. vol. 217; p. 767.
- Toy book, Animated. W. R. Cross. No. 1,139,643; May 18; Gaz. vol. 214; p. 749.
- Toy bowling game. J. F. McNamara. No. 1,133,810; Mar. 30; Gaz. vol. 212; p. 1563.
- Toy box, Convertible. J. S. Baker. No. 1,131,894; Mar. 16; Gaz. vol. 212; p. 784.
- Toy brick-press. E. Carius. No. 1,156,521; Oct. 12; Gaz. vol. 219; p. 442.
- Toy building-block. A. Richter. No. 1,124,526; Jan. 12; Gaz. vol. 210; p. 506.
- Toy, Cane. T. T. Keenan. No. 1,123,549; Jan. 5; Gaz. vol. 210; p. 120.
- Toy cannon. Z. E. House. No. 1,141,710; June 1; Gaz. vol. 215; p. 221.
- Toy cannon. W. Szlányi. No. 1,144,739; June 29; Gaz. vol. 215; p. 1404.
- Toy cannon. L. Y. Williams. No. 1,160,230; Nov. 16; Gaz. vol. 220; p. 725.
- Toy cap-pistol. T. O. Schrader. No. 1,141,904; June 1; Gaz. vol. 215; p. 287.
- Toy cash-register. D. Heyman. No. 1,141,547; June 1; Gaz. vol. 215; p. 164.
- Toy, Climbing-ball. H. L. Cassard. No. 1,154,094; Sept. 21; Gaz. vol. 218; p. 683.
- Toy decoration-wheel. J. Pole. No. 1,134,417; Apr. 6; Gaz. vol. 213; p. 121.
- Toy, Figure. J. O. Hawkins. No. 1,154,014; Sept. 21; Gaz. vol. 218; p. 655.
- Toy, Figure. H. M. Miller. No. 1,129,888; Mar. 2; Gaz. vol. 212; p. 19.
- Toy, Figure. J. Wachtelschneider. No. 1,148,266; July 27; Gaz. vol. 216; p. 1221.
- Toy figure, Dancing. W. H. Balcke. No. 1,131,895; Mar. 16; Gaz. vol. 212; p. 784.
- Toy, Figured. D. C. Zivley. No. 1,149,883; Aug. 10; Gaz. vol. 217; p. 602.
- Toy game. J. M. and E. R. Connor and C. W. Voelpel. No. 1,131,995; Mar. 16; Gaz. vol. 212; p. 820.
- Toy golf game. E. R. Connor, C. W. Voelpel, and J. M. Connor. No. 1,127,861; Feb. 9; Gaz. vol. 211; p. 461.
- Toy, Gravity traveling. J. T. Breneman. No. 1,154,088; Sept. 21; Gaz. vol. 218; p. 681.
- Toy gun. A. C. Anthony. No. 1,138,529; May 4; Gaz. vol. 214; p. 282.
- Toy gun. M. Ross. No. 1,159,098; Nov. 2; Gaz. vol. 220; p. 238.
- Toy gun of the magazine type. G. C. Lasares. No. 1,135,703; Apr. 13; Gaz. vol. 213; p. 617.
- Toy hoop. G. W. McKay. No. 1,162,868; Dec. 7; Gaz. vol. 221; p. 47.
- Toy, Jumping. M. R. Chesney. No. 1,147,606; July 20; Gaz. vol. 216; p. 961.
- Toy, Locomotive. H. O. Norris. No. 1,161,812; Nov. 23; Gaz. vol. 220; p. 1329.
- Toy lung-exerciser. L. Meyers. No. 1,152,198; Aug. 31; Gaz. vol. 217; p. 1569.
- Toy magazine-ride. C. J. Carlisle. No. 1,148,753; Aug. 3; Gaz. vol. 217; p. 98.
- Toy, Mechanical. B. F. Bain. No. 1,140,788; May 25; Gaz. vol. 214; p. 1184.
- Toy, Mechanical. B. F. Bain. No. 1,151,919; Aug. 31; Gaz. vol. 217; p. 1473.
- Toy, Mechanical. C. H. Clark, Jr. No. 1,136,465; Apr. 20; Gaz. vol. 213; p. 927.
- Toy, Mechanical. M. Oehler. No. 1,136,707; Apr. 20; Gaz. vol. 213; p. 1013.
- Toy, Mechanical. E. F. Poland. No. 1,143,315; June 15; Gaz. vol. 215; p. 859.
- Toy, Mechanical. E. M. Secor. No. 1,145,086; July 6; Gaz. vol. 216; p. 41.
- Toy, Mechanical. F. A. Wagner. No. 1,164,686; Dec. 21; Gaz. vol. 221; p. 768.
- Toy mechanism, Talking. L. V. Aronson. No. 1,140,647; May 25; Gaz. vol. 214; p. 1138.
- Toy mechanism, Talking. L. V. Aronson. No. 1,140,648; May 25; Gaz. vol. 214; p. 1138.
- Toy mechanism, Talking. L. V. Aronson. No. 1,140,649; May 25; Gaz. vol. 214; p. 1138.
- Toy mechanism, Talking. L. V. Aronson. No. 1,140,650; May 25; Gaz. vol. 214; p. 1139.
- Toy motion-picture machine. W. W. Blackman. No. 1,131,033; Mar. 9; Gaz. vol. 212; p. 449.
- Toy, Moving-picture. M. Tanikawa. No. 1,151,977; Aug. 31; Gaz. vol. 217; p. 1494.
- Toy novelty. S. Eisenberg. No. 1,153,206; Sept. 14; Gaz. vol. 218; p. 334.
- Toy or joke article. A. Talke. No. 1,140,418; May 25; Gaz. vol. 214; p. 1057.
- Toy or working model. F. Hornby. No. 1,161,131; Nov. 23; Gaz. vol. 220; p. 1089.
- Toy piano. A. E. Jacobs. No. 1,151,790; Aug. 31; Gaz. vol. 217; p. 1428.
- Toy piano with music-box. D. D. Smith. No. 1,123,607; Jan. 5; Gaz. vol. 210; p. 140.
- Toy pistol. F. H. Olthoff. No. 1,155,320; Sept. 28; Gaz. vol. 218; p. 1128.
- Toy pistol. I. Papirian. No. 1,133,235; Mar. 23; Gaz. vol. 212; p. 1319.
- Toy pistol. P. T. Pederson. No. 1,159,706; Nov. 9; Gaz. vol. 220; p. 486.
- Toy pistol. J. R. Rohn. No. 1,144,791; June 29; Gaz. vol. 215; p. 1422.
- Toy-rail joint. J. L. Cowen. No. 1,152,490; Sept. 7; Gaz. vol. 218; p. 39.
- Toy railway. R. A. Dorrill. No. 1,142,150; June 8; Gaz. vol. 215; p. 411.
- Toy railway. F. J. Hummel. No. 1,153,922; Sept. 21; Gaz. vol. 218; p. 623.
- Toy railway. P. H. Woodruff. No. 1,126,608; Jan. 26; Gaz. vol. 210; p. 1322.
- Toy receptacle. C. H. Gill. No. 1,128,241; Feb. 9; Gaz. vol. 211; p. 592.
- Toy safe. J. Chein. No. 1,138,626; May 11; Gaz. vol. 214; p. 354.
- Toy sail-boat. J. Macé. No. 1,136,476; Apr. 20; Gaz. vol. 213; p. 931.
- Toy sand-pail. G. R. Strong. No. 1,127,820; Feb. 9; Gaz. vol. 211; p. 447.
- Toy seesaw. A. England. No. 1,144,895; June 29; Gaz. vol. 215; p. 1458.
- Toy ship, Collapsible. M. A. Heinze. No. 1,162,481; Nov. 30; Gaz. vol. 220; p. 1608.
- Toy, Sounding. A. Walko. No. 1,163,049; Dec. 7; Gaz. vol. 221; p. 110.
- Toy top. I. Heidenreich. No. 1,139,119; May 11; Gaz. vol. 214; p. 531.
- Toy track. J. L. Cowen. No. 1,152,489; Sept. 7; Gaz. vol. 218; p. 39.
- Toy, Trundling. J. W. Bellairs. No. 1,152,367; Aug. 31; Gaz. vol. 217; p. 1629.
- Toy, Tumbling-figure. B. Vie-Theer. No. 1,155,692; Oct. 5; Gaz. vol. 219; p. 128.
- Toy, Type-writing doll. M. M. Schwarzschild and B. Scheuer. No. 1,153,524; Sept. 14; Gaz. vol. 218; p. 450.
- Toy, Type-writing-doll. M. M. Schwarzschild and B. Scheuer. No. 1,160,457; Nov. 16; Gaz. vol. 220; p. 804.
- Toy vehicle. J. L. Moore. No. 1,157,171; Oct. 19; Gaz. vol. 219; p. 700.
- Toy vehicle, Self-propelled. H. T. Kingsbury. No. 1,144,850; June 29; Gaz. vol. 215; p. 1443.
- Toy vehicles, Steering-gear for. M. V. B. Evesson. No. 1,140,586; May 25; Gaz. vol. 214; p. 1116.
- Toy war-boat. W. H. Huth. No. 1,145,420; July 6; Gaz. vol. 216; p. 155.
- Toy wheel. P. H. Pomeroy. No. 1,124,654; Jan. 12; Gaz. vol. 210; p. 555.
- Toy wheelbarrow. A. Molnar. No. 1,139,432; May 11; Gaz. vol. 214; p. 639.
- Toy, Whirling. O. J. Haimerl. No. 1,146,425; July 13; Gaz. vol. 216; p. 527.
- Toy, Wind-wheel. K. Naito. No. 1,155,263; Sept. 28; Gaz. vol. 218; p. 1109.
- Toy windmill. R. Pachur. No. 1,166,247; Dec. 28; Gaz. vol. 221; p. 1357.
- Toys, Apparatus for demonstrating. B. F. Bain. No. 1,162,546; Nov. 30; Gaz. vol. 220; p. 1630.
- Toys, Motor for. P. J. Geyer. No. 1,138,556; May 4; Gaz. vol. 214; p. 291.
- Toys, Reed for. T. W. Miller. No. 1,146,640; July 13; Gaz. vol. 216; p. 604.
- Trace. M. D. Johnson and I. D. Michael. No. 1,160,083; Nov. 9; Gaz. vol. 220; p. 619.
- Trace. J. H. Wilson. No. 1,166,292; Dec. 28; Gaz. vol. 221; p. 1373.
- Trace-carrier. C. Hoffman. No. 1,165,879; Dec. 28; Gaz. vol. 221; p. 1224.
- Trace connection. W. E. Lucas. No. 1,159,850; Nov. 9; Gaz. vol. 220; p. 540.
- Trace-eye. F. Lutz. No. 1,131,397; Mar. 9; Gaz. vol. 212; p. 373.
- Trace-fastener. C. V. Kilgore. No. 1,137,636; Apr. 27; Gaz. vol. 213; p. 1380.
- Trace, Harness. J. B. Baxter. No. 1,137,692; Apr. 27; Gaz. vol. 213; p. 1396.
- Trace-holds. Reinforcing-protector for. J. A. Juten. No. 1,136,425; Apr. 20; Gaz. vol. 213; p. 913.

Alphabetical list of inventions—Continued.

- Trace-hook. E. Samuelson. No. 1,127,288; Feb. 2; Gaz. vol. 211; p. 219.
- Trace-hook. R. J. Schrock. No. 1,157,185; Oct. 19; Gaz. vol. 219; p. 705.
- Trace-support. H. H. Sheets. No. 1,137,029; Apr. 27; Gaz. vol. 213; p. 1164.
- Traces. Means for reinforcing. J. A. Pollard. No. 1,137,528; Apr. 27; Gaz. vol. 213; p. 1343.
- Tracing-board. E. A. O'Brien. No. 1,137,229; Apr. 27; Gaz. vol. 213; p. 1236.
- Tracing-cloth. R. Clay. No. 1,154,485; Sept. 21; Gaz. vol. 218; p. 816.
- Track apparatus for signal or stop systems. A. Gollos. No. 1,163,595; Dec. 7; Gaz. vol. 221; p. 301.
- Track-brake. Electromagnetic. D. Storjohann. No. 1,124,072; Jan. 5; Gaz. vol. 210; p. 297.
- Track-cleaner. J. A. Hodgson. No. 1,124,226; Jan. 5; Gaz. vol. 210; p. 352.
- Track-cleaner. C. W. Lynch. No. 1,148,392; July 27; Gaz. vol. 216; p. 1267.
- Track-cleaner. C. Scheiden. No. 1,147,122; July 20; Gaz. vol. 216; p. 791.
- Track-cleaner. P. C. Slowe. No. 1,150,462; Aug. 17; Gaz. vol. 217; p. 869.
- Track cleaner and offer. S. T. Simmons. No. 1,128,910; Feb. 16; Gaz. vol. 211; p. 875.
- Track construction. Inclined. M. F. Bramley. No. 1,149,623; Aug. 10; Gaz. vol. 217; p. 511.
- Track device. F. M. Johnson. No. 1,124,863; Dec. 7; Gaz. vol. 221; p. 46.
- Track device. E. H. Wulff. No. 1,165,645; Dec. 28; Gaz. vol. 221; p. 1143.
- Track-fastener. J. J. Byers. No. 1,164,620; Dec. 14; Gaz. vol. 221; p. 703.
- Track-fastening. Metallic. F. Jager. No. 1,143,123; June 15; Gaz. vol. 215; p. 790.
- Track for traction-engines. Oscillating self-laying. G. W. Price. No. 1,153,570; Sept. 14; Gaz. vol. 218; p. 467.
- Track for vehicles. J. O. Morris. No. 1,142,195; June 8; Gaz. vol. 215; p. 427.
- Track-gage. R. A. Henington. No. 1,131,377; Mar. 9; Gaz. vol. 212; p. 566.
- Track-gage. Adjustable. W. H. Davis. No. 1,153,769; Sept. 14; Gaz. vol. 218; p. 534.
- Track-gage and rail-fastener. Combined. D. S. Earll. No. 1,128,668; Feb. 16; Gaz. vol. 211; p. 790.
- Track-gage. Automatic. J. M. Reed. No. 1,149,540; Aug. 10; Gaz. vol. 217; p. 478.
- Track-hanger. M. B. Moyer. No. 1,165,699; Dec. 28; Gaz. vol. 221; p. 1162.
- Track instrument. J. S. Romig. No. 1,155,373; Oct. 5; Gaz. vol. 219; p. 17.
- Track-joint and supporting means therefor. Overhead. H. L. Ferris. No. 1,156,472; Oct. 12; Gaz. vol. 219; p. 424.
- Track-laying machine. C. M. Simpson. No. 1,124,343; Jan. 12; Gaz. vol. 210; p. 441.
- Track-leveling device. A. H. Chinakas. No. 1,143,039; June 15; Gaz. vol. 215; p. 761.
- Track-line buck. G. Reilly. No. 1,128,257; Feb. 9; Gaz. vol. 211; p. 598.
- Track-measurer. Portable. V. S. Veazey. No. 143,467; June 15; Gaz. vol. 215; p. 911.
- Track-ramp. Compressible. E. M. Jones. No. 1,129,202; Feb. 23; Gaz. vol. 211; p. 1013.
- Track rip device. Portable. C. F. Peel. No. 1,153,568; Sept. 14; Gaz. vol. 218; p. 466.
- Track-sander. J. Dennis. No. 1,160,147; Nov. 16; Gaz. vol. 220; p. 697.
- Track-sander. R. A. Stone. No. 1,123,421; Jan. 5; Gaz. vol. 210; p. 77.
- Track-sander. E. P. Tabor. No. 1,156,111; Oct. 12; Gaz. vol. 219; p. 300.
- Track-sander. J. H. Watters. No. 1,127,555; Feb. 9; Gaz. vol. 211; p. 352.
- Track-sander spout. W. C. Haese. No. 1,143,824; June 22; Gaz. vol. 215; p. 1058.
- Track-sanding device. J. Cassidy. No. 1,148,829; Aug. 3; Gaz. vol. 217; p. 124.
- Track-stop. W. Austin. No. 1,137,178; Apr. 27; Gaz. vol. 213; p. 1217.
- Track structure. G. P. Kunda. No. 1,162,082; Nov. 30; Gaz. vol. 220; p. 1470.
- Track-switch. J. B. Bulmer. No. 1,138,624; May 11; Gaz. vol. 214; p. 353.
- Track switch. Industrial. T. Hayton. No. 1,130,165; Mar. 2; Gaz. vol. 212; p. 112.
- Track. Triple-rail endless. P. Montsabr . No. 1,149,278; Aug. 10; Gaz. vol. 217; p. 384.
- Tracker and tension device. G. A. Jaeger. No. 1,140,460; May 25; Gaz. vol. 214; p. 1072.
- Tracker. Automatic. F. W. Draper. No. 1,138,461; May 4; Gaz. vol. 214; p. 261.
- Tracker-bar. F. H. Hartzell. No. 1,131,513; Mar. 9; Gaz. vol. 212; p. 614.
- Tracker-board and music-sheet. J. C. Hagey. No. 1,155,565; Oct. 5; Gaz. vol. 219; p. 83.
- Tracker-board-controller device. C. M. Welte. No. 1,158,015; Oct. 26; Gaz. vol. 219; p. 1058.
- Tracking device. L. W. Southgate. No. 1,163,274; Dec. 7; Gaz. vol. 221; p. 188.
- Traction and antiskidding device. W. H. Putnam. No. 1,150,148; Aug. 17; Gaz. vol. 217; p. 760.
- Traction apparatus. C. A. Henneuse. No. 1,153,845; Sept. 14; Gaz. vol. 218; p. 563.
- Traction device. M. R. Bruner. No. 1,123,238; Jan. 5; Gaz. vol. 210; p. 12.
- Traction-elevator. E. L. Gale, Sr. No. 1,132,769; Mar. 23; Gaz. vol. 212; p. 1152.
- Traction-elevator. C. O. Pearson. No. 1,164,115; Dec. 14; Gaz. vol. 221; p. 529.
- Traction-engine. B. C. Ball. No. 1,162,208; Nov. 30; Gaz. vol. 220; p. 1514.
- Traction-engine. J. B. Bartholomew. No. 1,156,203; Oct. 12; Gaz. vol. 219; p. 329.
- Traction-engine. H. Ford. No. 1,153,052; Sept. 7; Gaz. vol. 218; p. 244.
- Traction-engine. D. M. Hartsough. No. 1,126,005; Jan. 26; Gaz. vol. 210; p. 1102.
- Traction-engine. A. I. Ilovland. No. 1,151,360; Aug. 24; Gaz. vol. 217; p. 1233.
- Traction-engine. A. C. Johnson. No. 1,153,112; Sept. 7; Gaz. vol. 218; p. 264.
- Traction-engine. R. B. Morton. No. 1,126,552; Jan. 26; Gaz. vol. 210; p. 1502.
- Traction-engine. J. F. Steward. No. 1,133,758; Mar. 30; Gaz. vol. 212; p. 1544.
- Traction-engine. W. Strait. No. 1,130,117; Mar. 2; Gaz. vol. 212; p. 95.
- Traction-engine. G. T. Strite and F. H. Bierman. No. 1,138,996; May 11; Gaz. vol. 214; p. 486.
- Traction-engine. G. A. Thode. No. 1,161,424; Nov. 23; Gaz. vol. 220; p. 1196.
- Traction-lending contrivance. C. R. Williams. No. 1,159,560; Nov. 9; Gaz. vol. 220; p. 434.
- Traction-machine. W. Barber. No. 1,153,538; Sept. 14; Gaz. vol. 218; p. 456.
- Traction-machine. N. Nilson. No. 1,164,310; Dec. 14; Gaz. vol. 221; p. 596.
- Traction-machine. N. and L. Nilson. No. 1,164,309; Dec. 14; Gaz. vol. 221; p. 595.
- Traction-machines. Steering mechanism for. W. Strait. No. 1,131,288; Mar. 9; Gaz. vol. 212; p. 536.
- Traction-meter. J. G. Kjellgren. No. 1,148,325; July 27; Gaz. vol. 216; p. 1243.
- Traction-rope-take-up mechanism. Automatic. J. J. Neenan, G. T. Hanchett, and N. E. Neenan. No. 1,126,260; Jan. 26; Gaz. vol. 210; p. 1196.
- Traction-track. Self-laying. W. E. Bassett. No. 1,144,284; June 22; Gaz. vol. 215; p. 1220.
- Traction-wheel. S. E. Beeler. No. 1,142,227; June 8; Gaz. vol. 215; p. 438.
- Traction-wheel. V. Biela. No. 1,125,800; Jan. 19; Gaz. vol. 210; p. 998.
- Traction-wheel. H. E. Bullock. No. 1,124,287; Jan. 12; Gaz. vol. 210; p. 422.
- Traction-wheel. I. B. Casey. No. 1,124,209; Jan. 5; Gaz. vol. 210; p. 345.
- Traction-wheel. W. W. Coulter. No. 1,155,704; Oct. 5; Gaz. vol. 219; p. 132.
- Traction-wheel. T. B. Crabtree. No. 1,157,151; Oct. 19; Gaz. vol. 219; p. 693.
- Traction-wheel. G. W. Elliott. No. 1,156,471; Oct. 12; Gaz. vol. 219; p. 424.
- Traction-wheel. J. L. Gibbons. No. 1,125,836; Jan. 19; Gaz. vol. 210; p. 1009.
- Traction-wheel. R. E. Hamilton. No. 1,139,968; May 18; Gaz. vol. 214; p. 864.
- Traction-wheel. E. A. Johnston. No. 1,139,769; May 18; Gaz. vol. 214; p. 794.
- Traction-wheel. J. Menne. No. 1,142,189; June 8; Gaz. vol. 215; p. 425.
- Traction-wheel. C. H. Miller. No. 1,149,936; Aug. 10; Gaz. vol. 217; p. 622.
- Traction-wheel. S. S. Morton. No. 1,144,373; June 29; Gaz. vol. 215; p. 1279.
- Traction-wheel. W. H. Nebergall. No. 1,123,351; Jan. 5; Gaz. vol. 210; p. 53.
- Traction-wheel. R. N. Riblet. No. 1,134,960; Apr. 6; Gaz. vol. 213; p. 312.
- Traction-wheel. N. Shaver. No. 1,145,518; July 6; Gaz. vol. 216; p. 190.
- Traction-wheel. D. C. Slaght and W. T. Miller. No. 1,145,088; July 6; Gaz. vol. 216; p. 42.
- Traction-wheel. C. F. Washburn. No. 1,144,574; June 29; Gaz. vol. 215; p. 1346.
- Traction-wheel. G. H. Wilson. No. 1,165,561; Dec. 28; Gaz. vol. 221; p. 1111.
- Traction-wheel for motor-propelled vehicles. E. M. Wheelock. No. 1,142,470; June 8; Gaz. vol. 215; p. 525.
- Tractor. W. P. Allen. No. 1,139,009; May 11; Gaz. vol. 214; p. 492.
- Tractor. W. T. M. Brunnemer. No. 1,150,247; Aug. 17; Gaz. vol. 217; p. 796.
- Tractor. J. G. Casteran. No. 1,138,453; May 4; Gaz. vol. 214; p. 258.
- Tractor. G. W. Day. No. 1,126,960; Feb. 2; Gaz. vol. 211; p. 103.
- Tractor. C. J. Eastman. No. 1,140,969; May 25; Gaz. vol. 214; p. 1251.
- Tractor. D. M. Hartsough. No. 1,128,246; Feb. 9; Gaz. vol. 211; p. 594.

Alphabetical list of inventions—Continued.

- Tractor. D. M. Hartsough. No. 1,139,414; May 11; Gaz. vol. 214; p. 632.
- Tractor. J. I. Hoke. No. 1,159,223; Nov. 2; Gaz. vol. 220; p. 283.
- Tractor. F. Honnold. No. 1,130,285; Mar. 2; Gaz. vol. 212; p. 154.
- Tractor. G. C. Jett. No. 1,135,187; Apr. 13; Gaz. vol. 213; p. 437.
- Tractor. J. M. and H. E. Johnson. No. 1,127,629; Feb. 9; Gaz. vol. 211; p. 376.
- Tractor. H. W. Kardell. No. 1,153,692; Sept. 14; Gaz. vol. 218; p. 508.
- Tractor. C. B. Klein. No. 1,154,322; Sept. 21; Gaz. vol. 218; p. 761.
- Tractor. J. E. Lamb, Jr. No. 1,126,034; Jan. 26; Gaz. vol. 210; p. 1112.
- Tractor. H. W. Leavitt. No. 1,132,363; Mar. 16; Gaz. vol. 212; p. 955.
- Tractor. H. W. Leavitt. No. 1,141,126; June 1; Gaz. vol. 215; p. 12.
- Tractor. C. W. Loeffler. No. 1,131,394; Mar. 9; Gaz. vol. 212; p. 572.
- Tractor. E. T. McKaig. No. 1,130,314; Mar. 2; Gaz. vol. 212; p. 164.
- Tractor. D. Meyer. No. 1,137,652; Apr. 27; Gaz. vol. 213; p. 1384.
- Tractor. N. and L. Nilsson. No. 1,164,307; Dec. 14; Gaz. vol. 221; p. 595.
- Tractor. C. A. Olson. No. 1,166,246; Dec. 28; Gaz. vol. 221; p. 1357.
- Tractor. D. Parrett. No. 1,149,403; Aug. 10; Gaz. vol. 217; p. 429.
- Tractor. E. J. Patterson and F. S. Moore. No. 1,127,503; Feb. 9; Gaz. vol. 211; p. 335.
- Tractor. M. W. Patton. No. 1,126,850; Feb. 2; Gaz. vol. 211; p. 67.
- Tractor. C. O. Paul. No. 1,153,109; Sept. 7; Gaz. vol. 218; p. 263.
- Tractor. J. Persley. No. 1,164,208; Dec. 14; Gaz. vol. 221; p. 559.
- Tractor. J. Pittings. No. 1,130,018; Mar. 2; Gaz. vol. 212; p. 62.
- Tractor. J. W. Porter. No. 1,165,708; Dec. 28; Gaz. vol. 221; p. 1165.
- Tractor. A. W. Sutherland. No. 1,142,066; June 8; Gaz. vol. 215; p. 381.
- Tractor. W. C. Zelle. No. 1,130,363; Mar. 2; Gaz. vol. 212; p. 180.
- Tractor attachment for motor-vehicles. F. J. Hobson. No. 1,154,635; Sept. 28; Gaz. vol. 218; p. 897.
- Tractor-binder hitch. C. Pearson. No. 1,159,987; Nov. 9; Gaz. vol. 220; p. 588.
- Tractor, Cable. N. E. Ayer. No. 1,164,910; Dec. 21; Gaz. vol. 221; p. 846.
- Tractor, Caterpillar. W. O. Stark. No. 1,124,351; Jan. 12; Gaz. vol. 210; p. 445.
- Tractor cooling system. A. Williams. No. 1,138,433; May 4; Gaz. vol. 214; p. 251.
- Tractor-engine. T. V. Buckwalter. No. 1,161,922; Nov. 30; Gaz. vol. 220; p. 1414.
- Tractor-engine. W. B. Fouts. No. 1,125,085; Jan. 19; Gaz. vol. 210; p. 741.
- Tractor, Farm. G. P. Rettig. No. 1,160,320; Nov. 16; Gaz. vol. 220; p. 756.
- Tractor, Fluid. J. M. King. No. 1,125,341; Jan. 19; Gaz. vol. 210; p. 834.
- Tractor, Fluid. J. M. King. No. 1,125,342; Jan. 19; Gaz. vol. 210; p. 834.
- Tractor, Fluid. J. M. King. No. 1,153,798; Sept. 14; Gaz. vol. 218; p. 545.
- Tractor for wagons and the like. W. E. Eldridge. No. 1,155,713; Oct. 5; Gaz. vol. 219; p. 135.
- Tractor, Motor. E. Moore. No. 1,150,290; Aug. 17; Gaz. vol. 217; p. 811.
- Tractor, Motor-driven. E. Adler. No. 1,165,930; Dec. 28; Gaz. vol. 221; p. 1240.
- Tractor operated by internal-combustion engines. E. Wright. No. 1,141,295; June 1; Gaz. vol. 215; p. 74.
- Tractor-steering device. H. L. Wright. No. 1,165,481; Dec. 28; Gaz. vol. 221; p. 1084.
- Tractor steering-gear. A. E. Schenck. No. 1,163,862; Dec. 14; Gaz. vol. 221; p. 441.
- Tractor-steering mechanism. H. Uhlig. No. 1,162,418; Nov. 30; Gaz. vol. 220; p. 1585.
- Tractor transmission mechanism. J. J. Viste. No. 1,153,087; Oct. 26; Gaz. vol. 219; p. 1084.
- Tractor-wheel. J. Beard. No. 1,155,872; Oct. 5; Gaz. vol. 219; p. 191.
- Tractor-wheel. M. C. Krarup. No. 1,135,533; Apr. 13; Gaz. vol. 213; p. 556.
- Tractor-wheel. H. Krogmoe. No. 1,128,988; Feb. 16; Gaz. vol. 211; p. 903.
- Tractor-wheel. J. P. Sneddon. No. 1,150,398; Aug. 17; Gaz. vol. 217; p. 847.
- Tractor-wheel, Self-clearing. A. E. Cook and T. Van Tuyl. No. 1,156,212; Oct. 12; Gaz. vol. 219; p. 333.
- Tractors, Antitipping device for. D. M. Hartsough. No. 1,138,610; May 4; Gaz. vol. 214; p. 310.
- Tractors, Drag-bar connection for. D. M. Hartsough. No. 1,138,611; May 4; Gaz. vol. 214; p. 310.
- Tractors, Transmission-controlling device for. W. L. Walton. No. 1,125,226; Jan. 19; Gaz. vol. 210; p. 793.
- Traffic-guide. R. W. Roderick. No. 1,123,925; Jan. 5; Gaz. vol. 210; p. 248.
- Traffic-indicator. C. C. Prinz. No. 1,148,986; Aug. 3; Gaz. vol. 217; p. 177.
- Trailers, Steering and draft apparatus for. L. T. Olson. No. 1,162,946; Dec. 7; Gaz. vol. 221; p. 73.
- Trailing apparatus. V. E. Peterson. No. 1,155,437; Oct. 5; Gaz. vol. 219; p. 39.
- Train-brake-control apparatus, Automatic. W. V. Turner. No. 1,130,447; Mar. 2; Gaz. vol. 212; p. 212.
- Train-braking system, Automatic. D. M. Smith. No. 1,124,067; Jan. 5; Gaz. vol. 210; p. 295.
- Train control. J. L. Richardson. No. 1,135,924; Apr. 13; Gaz. vol. 213; p. 693.
- Train control. F. Wetzel. No. 1,133,900; Mar. 30; Gaz. vol. 212; p. 1594.
- Train control and signal system. J. T. Thompson. No. 1,127,944; Feb. 9; Gaz. vol. 211; p. 491.
- Train control and signal system. J. T. Thompson. No. 1,135,557; Apr. 13; Gaz. vol. 213; p. 565.
- Train-control apparatus. W. H. Webber and L. G. Ghent. No. 1,141,998; June 8; Gaz. vol. 215; p. 356.
- Train control, Automatic. G. Kenney. No. 1,142,178; June 8; Gaz. vol. 215; p. 421.
- Train control, Automatic. R. G. Whipple. No. 1,161,565; Nov. 23; Gaz. vol. 220; p. 1245.
- Train-control induction system. G. P. Finnigan. No. 1,159,315; Nov. 2; Gaz. vol. 220; p. 315.
- Train-control system. A. Casale. No. 1,148,442; July 27; Gaz. vol. 216; p. 1282.
- Train-control system. D. L. Hopkins. No. 1,132,582; Mar. 23; Gaz. vol. 212; p. 1082.
- Train-control system. S. G. Smith. No. 1,159,724; Nov. 9; Gaz. vol. 220; p. 493.
- Train-control system. G. P. Thurber. No. 1,137,811; May 4; Gaz. vol. 214; p. 31.
- Train-control system. G. P. Thurber. No. 1,162,890; Dec. 7; Gaz. vol. 221; p. 54.
- Train-control system, Automatic. L. C. Crim. No. 1,132,450; Mar. 16; Gaz. vol. 212; p. 986.
- Train-control system, Electric. E. Woltmann. No. 1,154,956; Sept. 28; Gaz. vol. 218; p. 1005.
- Train-control systems, Mechanism for. G. B. Gray. No. 1,135,374; Apr. 13; Gaz. vol. 213; p. 500.
- Train controlling and stopping system. J. F. Webb, Jr. No. 1,125,418; Jan. 19; Gaz. vol. 210; p. 862.
- Train controlling and stopping system. J. F. Webb, Jr. No. 1,125,419; Jan. 19; Gaz. vol. 210; p. 863.
- Train-controlling device, Automatic. L. Atwood. No. 1,139,948; May 13; Gaz. vol. 214; p. 857.
- Train-controlling device, Automatic. A. L. Bower. No. 1,138,349; May 4; Gaz. vol. 214; p. 221.
- Train-controlling device, Automatic. A. F. Lacey and W. J. Clingnepeel. No. 1,162,083; Nov. 30; Gaz. vol. 220; p. 1470.
- Train-controlling device, Automatic. L. C. Werner. No. 1,131,191; Mar. 9; Gaz. vol. 212; p. 502.
- Train-controlling system, Automatic electrically-actuated. E. L. Orcutt. No. 1,137,660; Apr. 27; Gaz. vol. 213; p. 1387.
- Train-coupling, Vehicle. W. A. Underhill and C. C. Avery. No. 1,150,466; Aug. 17; Gaz. vol. 217; p. 871.
- Train-door control. V. A. Conklin. No. 1,159,177; Nov. 2; Gaz. vol. 220; p. 267.
- Train-lighting system, Electric. J. F. McElroy. No. 1,145,328; July 6; Gaz. vol. 216; p. 122.
- Train-line controller, Safety. J. P. Bolt. No. 1,128,098; Feb. 9; Gaz. vol. 211; p. 544.
- Train-line coupling. M. L. Bookwalter and S. Saunooke. No. 1,130,252; Mar. 2; Gaz. vol. 212; p. 142.
- Train-line coupling, Automatic. G. Macloskie. No. 1,164,298; Dec. 14; Gaz. vol. 221; p. 591.
- Train-marker. L. E. Simmons. No. 1,133,583; Mar. 30; Gaz. vol. 212; p. 1481.
- Train or car stopping apparatus, Automatic. S. K. Ghosh. No. 1,153,616; Sept. 14; Gaz. vol. 218; p. 483.
- Train-order apparatus. W. H. Pittman. No. 1,166,252; Dec. 28; Gaz. vol. 221; p. 1359.
- Train-order-delivering apparatus. C. B. Wade. No. 1,165,299; Dec. 21; Gaz. vol. 221; p. 982.
- Train-order holder and deliverer. G. L. Showalter. No. 1,160,003; Nov. 9; Gaz. vol. 220; p. 593.
- Train order or message delivering device. T. Hartsook. No. 1,157,864; Oct. 26; Gaz. vol. 219; p. 1005.
- Train-pipe. J. M. Doran. No. 1,130,965; Mar. 9; Gaz. vol. 212; p. 425.
- Train-pipes and the like, Automatic coupling for. G. J. Coles. No. 1,165,754; Dec. 28; Gaz. vol. 221; p. 1181.
- Train safety appliance. J. J. Degehard. No. 1,134,999; Apr. 13; Gaz. vol. 213; p. 372.
- Train-shed construction. G. I. Finley. No. 1,137,055; Apr. 27; Gaz. vol. 213; p. 1173.
- Train-signal apparatus. J. S. Allen. No. 1,132,418; Mar. 16; Gaz. vol. 212; p. 974.
- Train signaling and controlling system, Electric. A. J. Allard. No. 1,136,750; Apr. 20; Gaz. vol. 213; p. 1028.
- Train signaling and controlling system, Electric. A. J. Allard. No. 1,136,751; Apr. 20; Gaz. vol. 213; p. 1029.
- Train signaling apparatus. J. A. Johnson. No. 1,137,628; Apr. 27; Gaz. vol. 213; p. 1376.
- Train-stop. J. G. Brinson. No. 1,152,283; Aug. 31; Gaz. vol. 217; p. 1598.

- Train-stop. H. M. Gain. No. 1,149,571; Aug. 10; Gaz. vol. 217; p. 488.
- Train-stop. D. Hopkins. No. 1,144,902; June 29; Gaz. vol. 215; p. 1460.
- Train-stop. B. R. Roach. No. 1,147,550; July 20; Gaz. vol. 216; p. 941.
- Train-stop and signal mechanism, Automatic. E. M. Jones. No. 1,129,200; Feb. 23; Gaz. vol. 211; p. 1012.
- Train-stop, Automatic. F. G. Bastian. No. 1,128,932; Feb. 16; Gaz. vol. 211; p. 883.
- Train-stop, Automatic. M. B. Bulla. No. 1,165,152; Dec. 21; Gaz. vol. 221; p. 933.
- Train-stop, Automatic. I. L. Clark. No. 1,124,296; Jan. 12; Gaz. vol. 210; p. 424.
- Train-stop, Automatic. C. A. Eib. No. 1,136,944; Apr. 27; Gaz. vol. 213; p. 1132.
- Train-stop, Automatic. J. A. Gramm. No. 1,136,122; Apr. 20; Gaz. vol. 213; p. 803.
- Train-stop, Automatic. H. A. Hammell. No. 1,151,458; Aug. 24; Gaz. vol. 217; p. 1265.
- Train-stop, Automatic. E. R. Hill. No. 1,138,216; May 4; Gaz. vol. 214; p. 173.
- Train-stop, Automatic. A. Johnson. No. 1,140,268; May 18; Gaz. vol. 214; p. 968.
- Train-stop, Automatic. E. M. Jones. No. 1,129,201; Feb. 23; Gaz. vol. 211; p. 1012.
- Train-stop, Automatic. E. M. Jones. No. 1,129,205; Feb. 23; Gaz. vol. 211; p. 1014.
- Train-stop, Automatic. E. M. Jones. No. 1,142,884; June 15; Gaz. vol. 215; p. 706.
- Train-stop, Automatic. H. F. W. Kohlbach. No. 1,140,380; May 25; Gaz. vol. 214; p. 1043.
- Train-stop, Automatic. J. H. K. McCollum. No. 1,150,377; Aug. 17; Gaz. vol. 217; p. 840.
- Train-stop, Automatic. F. H. Miller. No. 1,129,708; Feb. 23; Gaz. vol. 211; p. 1187.
- Train-stop, Automatic. J. H. Prall. No. 1,129,724; Feb. 23; Gaz. vol. 211; p. 1191.
- Train-stop, Automatic. W. Reed. No. 1,161,729; Nov. 23; Gaz. vol. 220; p. 1299.
- Train-stop, Automatic. W. G. Scholoske. No. 1,135,467; Apr. 13; Gaz. vol. 213; p. 533.
- Train-stop, Automatic. M. F. Slattery and C. A. Linehan. No. 1,150,788; Aug. 17; Gaz. vol. 217; p. 982.
- Train-stop, Automatic. W. M. Smith. No. 1,133,239; Mar. 23; Gaz. vol. 212; p. 1321.
- Train-stop, Automatic. F. O. Sparhawk. No. 1,161,743; Nov. 23; Gaz. vol. 220; p. 1305.
- Train-stop, Automatic. A. G. Turpen. No. 1,141,023; May 25; Gaz. vol. 214; p. 1267.
- Train-stop, Automatic. F. K. Wade. No. 1,136,567; Apr. 20; Gaz. vol. 213; p. 963.
- Train-stop, Automatic. M. C. Wright. No. 1,123,973; Jan. 5; Gaz. vol. 210; p. 263.
- Train-stop, Automatic. E. H. Wulff. No. 1,138,344; May 4; Gaz. vol. 214; p. 220.
- Train-stop, Automatic. H. H. Young and H. H. Donovan. No. 1,127,147; Feb. 2; Gaz. vol. 211; p. 170.
- Train-stop device, Automatic. W. M. Cady. No. 1,131,207; Mar. 9; Gaz. vol. 212; p. 508.
- Train-stop device, Automatic. T. T. Chaloner. No. 1,164,467; Dec. 14; Gaz. vol. 221; p. 651.
- Train-stop device, Automatic. A. E. Hudson. No. 1,136,132; Apr. 20; Gaz. vol. 213; p. 807.
- Train-stop device, Automatic. J. A. Love. No. 1,130,990; Mar. 9; Gaz. vol. 212; p. 434.
- Train-stop mechanism, Automatic. E. W. Keller. No. 1,134,868; Apr. 6; Gaz. vol. 213; p. 281.
- Train-stop mechanism, Brake-actuating device for automatic. F. Bedford. No. 1,152,695; Sept. 7; Gaz. vol. 218; p. 116.
- Train stop or signal device, Automatic. O. A. Ross. No. 1,147,444; July 20; Gaz. vol. 216; p. 905.
- Train-stops, Roadside device for automatic. M. C. Wright. No. 1,130,558; Mar. 2; Gaz. vol. 212; p. 252.
- Train-stops, Track device for automatic. C. A. Eib. No. 1,136,945; Apr. 27; Gaz. vol. 213; p. 1133.
- Train-stopping apparatus. V. E. Bock. No. 1,163,502; Dec. 7; Gaz. vol. 221; p. 268.
- Train-stopping apparatus. C. E. Clapp. No. 1,142,492; June 8; Gaz. vol. 215; p. 532.
- Train-stopping apparatus. C. C. Cox. No. 1,135,881; Apr. 13; Gaz. vol. 213; p. 679.
- Train-stopping apparatus. M. R. Fuls. No. 1,139,512; May 18; Gaz. vol. 214; p. 703.
- Train-stopping apparatus. A. L. Gainer. No. 1,131,502; Mar. 9; Gaz. vol. 212; p. 610.
- Train-stopping apparatus. C. C. Hole. No. 1,139,525; May 18; Gaz. vol. 214; p. 707.
- Train-stopping apparatus. I. Hughes. No. 1,123,135; Jan. 5; Gaz. vol. 210; p. 318.
- Train-stopping apparatus. F. T. Knight. No. 1,145,320; July 6; Gaz. vol. 216; p. 120.
- Train-stopping apparatus. G. E. Labit. No. 1,146,081; July 13; Gaz. vol. 216; p. 407.
- Train-stopping apparatus. G. G. Naugle. No. 1,135,910; Apr. 13; Gaz. vol. 213; p. 689.
- Train-stopping apparatus. W. Purcell. No. 1,139,136; May 11; Gaz. vol. 214; p. 537.
- Train-stopping apparatus. D. S. and H. Shoffstall. No. 1,134,019; Mar. 30; Gaz. vol. 212; p. 1631.
- Train-stopping apparatus. J. H. Skinner and D. E. Riley. No. 1,158,734; Nov. 2; Gaz. vol. 220; p. 112.
- Train-stopping apparatus. J. E. Smith. No. 1,146,110; July 13; Gaz. vol. 216; p. 417.
- Train-stopping apparatus. S. E. Stone. No. 1,163,482; Dec. 7; Gaz. vol. 221; p. 261.
- Train-stopping apparatus. J. H. Upton. No. 1,132,408; Mar. 16; Gaz. vol. 212; p. 971.
- Train-stopping apparatus, Automatic. J. J. Gavura. No. 1,126,191; Jan. 26; Gaz. vol. 210; p. 1172.
- Train-stopping apparatus, Automatic. S. K. Ghosh. No. 1,136,791; Apr. 20; Gaz. vol. 213; p. 1042.
- Train-stopping apparatus, Automatic. M. W. Hampton. No. 1,132,340; Mar. 16; Gaz. vol. 212; p. 947.
- Train-stopping apparatus, Automatic. G. R. McQueen. No. 1,133,987; Mar. 30; Gaz. vol. 212; p. 1620.
- Train-stopping device. J. A. Gray. No. 1,142,697; June 8; Gaz. vol. 215; p. 601.
- Train-stopping device. H. G. Sedgwick. No. 1,164,758; Dec. 21; Gaz. vol. 221; p. 792.
- Train-stopping device, Automatic. A. G. Anderson. No. 1,148,277; July 27; Gaz. vol. 216; p. 1225.
- Train-stopping device, Automatic. L. W. Horne and W. N. Crane. No. 1,142,256; June 8; Gaz. vol. 215; p. 448.
- Train-stopping machine. J. E. Condon. No. 1,165,321; Dec. 21; Gaz. vol. 221; p. 988.
- Train-stopping means, Safety automatic. W. Austin. No. 1,144,454; June 29; Gaz. vol. 215; p. 1307.
- Train-stopping mechanism, Automatic. W. Beutel. No. 1,157,144; Oct. 19; Gaz. vol. 219; p. 690.
- Train-stopping mechanism, Automatic. G. W. Brownell. No. 1,140,109; May 18; Gaz. vol. 214; p. 915.
- Train-stopping mechanism, Track obstruction for. G. O. Dalton and C. A. Hill. No. 1,128,763; Feb. 16; Gaz. vol. 211; p. 821.
- Train stopping or signaling mechanism, Automatic. E. M. Jones. No. 1,129,203; Feb. 23; Gaz. vol. 211; p. 1013.
- Train-stopping system. A., S., and H. Mainardi. No. 1,131,536; Mar. 9; Gaz. vol. 212; p. 621.
- Train-wire connector. A. J. Farrelly and G. B. Colegrove. No. 1,162,996; Dec. 7; Gaz. vol. 221; p. 91.
- Trains, Automatic device for controlling the speed of. L. W. Horne and W. N. Crane. No. 1,138,109; May 4; Gaz. vol. 214; p. 137.
- Trains, Device for delivering pouches from moving. G. Burrell. No. 1,140,022; May 18; Gaz. vol. 214; p. 884.
- Trammel-wheel. F. Webb. No. 1,133,517; Mar. 30; Gaz. vol. 212; p. 1457.
- Tramway and the like switch. A. Wilkinson. No. 1,158,878; Nov. 2; Gaz. vol. 220; p. 165.
- Tramway-carrier. C. McLaren. No. 1,136,352; Apr. 20; Gaz. vol. 213; p. 885.
- Tramways, Hanger connection for overhead. R. B. Sheridan. No. 1,128,909; Feb. 16; Gaz. vol. 211; p. 875.
- Tramways in asphalt paving and the like, Permanent way for. H. Schmidt. No. 1,149,167; Aug. 3; Gaz. vol. 217; p. 239.
- Transfer device. E. E. Johnson. No. 1,129,573; Feb. 23; Gaz. vol. 211; p. 1143.
- Transfer mechanism. C. G. Hall. No. 1,135,789; Apr. 13; Gaz. vol. 213; p. 646.
- Transfer mechanism. C. D. Young. No. 1,160,355; Nov. 16; Gaz. vol. 220; p. 769.
- Transfers, Making. A. McKerrow, H. Walton, and G. F. Shearsmith. No. 1,161,711; Nov. 23; Gaz. vol. 220; p. 1294.
- Transferring and aligning machine. T. S. Garrett. No. 1,132,840; Mar. 23; Gaz. vol. 212; p. 1179.
- Transferring earth or other excavated material, Apparatus for. F. S. Edinger. No. 1,165,234; Dec. 21; Gaz. vol. 221; p. 961.
- Transferring material, Pneumatic apparatus for. C. J. Van Doren. No. 1,125,413; Jan. 19; Gaz. vol. 210; p. 861.
- Transformable lock. H. Laughlin, Jr., and D. Schuyler. No. 1,124,626; Jan. 12; Gaz. vol. 210; p. 544.
- Transformer. J. Burke. No. 1,145,551; July 6; Gaz. vol. 216; p. 201.
- Transformer. W. M. Dann. No. 1,130,260; Mar. 2; Gaz. vol. 212; p. 145.
- Transformer. C. L. Fortescue. No. 1,129,463; Feb. 23; Gaz. vol. 211; p. 1105.
- Transformer. C. L. Fortescue. No. 1,129,465; Feb. 23; Gaz. vol. 211; p. 1106.
- Transformer. C. L. Fortescue. No. 1,129,469; Feb. 23; Gaz. vol. 211; p. 1108.
- Transformer. C. L. Fortescue. No. 1,129,474; Feb. 23; Gaz. vol. 211; p. 1109.
- Transformer. S. E. Johannesen. No. 1,159,226; Nov. 2; Gaz. vol. 220; p. 284.
- Transformer. L. C. Nichols. No. 1,131,258; Mar. 9; Gaz. vol. 212; p. 525.
- Transformer. L. C. Nichols. No. 1,140,843; May 25; Gaz. vol. 214; p. 1204.
- Transformer. L. C. Nichols. No. 1,143,305; June 15; Gaz. vol. 215; p. 854.
- Transformer. A. H. Pickler. No. 1,133,316; Mar. 30; Gaz. vol. 212; p. 1384.
- Transformer. L. T. Robinson and J. R. Craighead. No. 1,129,231; Feb. 23; Gaz. vol. 211; p. 1022.
- Transformer. T. Shaw. No. 1,133,750; Mar. 30; Gaz. vol. 212; p. 1541.

Alphabetical list of inventions—Continued.

- Transformer. F. Sieber. No. 1,140,920; May 25; Gaz. vol. 214; p. 1233.
- Transformer, Alternating-current. C. L. Fortescue. No. 1,129,470; Feb. 23; Gaz. vol. 211; p. 1108.
- Transformer and winding. C. L. Fortescue. No. 1,129,464; Feb. 23; Gaz. vol. 211; p. 1106.
- Transformer-casing. E. G. Reed. No. 1,156,708; Oct. 12; Gaz. vol. 219; p. 507.
- Transformer-controller and distributor. Electrical. F. L. Wiltshire. No. 1,158,091; Oct. 26; Gaz. vol. 219; p. 1085.
- Transformer, Electric-current. C. L. Fortescue. No. 1,129,472; Feb. 23; Gaz. vol. 211; p. 1109.
- Transformer, Electric-current. C. L. Fortescue. No. 1,129,473; Feb. 23; Gaz. vol. 211; p. 1109.
- Transformer, Electrical. R. F. Agnew. No. 1,160,357; Nov. 16; Gaz. vol. 220; p. 769.
- Transformer, Electrical. E. Haefely. No. 1,130,268; Mar. 2; Gaz. vol. 212; p. 148.
- Transformer, Electrical. E. Haefely. No. 1,130,269; Mar. 2; Gaz. vol. 212; p. 149.
- Transformer for wireless systems, Tuning-. R. R. Goldthorp. No. 1,134,840; Apr. 6; Gaz. vol. 213; p. 273.
- Transformer, High-tension. C. Schrader. No. 1,154,132; Sept. 21; Gaz. vol. 218; p. 695.
- Transformer, High-voltage. J. E. Mateer. No. 1,129,499; Feb. 23; Gaz. vol. 211; p. 1117.
- Transformer, Measuring-. H. Gewecke and C. Baeumler. No. 1,133,466; Mar. 30; Gaz. vol. 212; p. 1438.
- Transformer, Potential-. O. W. Lunn and E. Harvey. No. 1,154,866; Sept. 28; Gaz. vol. 218; p. 974.
- Transformer-protector. O. B. Allgood. No. 1,138,170; May 4; Gaz. vol. 214; p. 158.
- Transformer regulation. E. O. Schweitzer. No. 1,154,441; Sept. 21; Gaz. vol. 218; p. 802.
- Transformer, Series. G. A. Burnham. No. 1,138,625; May 11; Gaz. vol. 214; p. 353.
- Transformer, Surge-proof. C. H. Thordarson. No. 1,160,960; Nov. 16; Gaz. vol. 220; p. 984.
- Transformer system, Electrical. F. S. Perrin. No. 1,156,035; Oct. 5; Gaz. vol. 219; p. 247.
- Transformer terminal. C. L. Fortescue. No. 1,129,466; Feb. 23; Gaz. vol. 211; p. 1106.
- Transformer, Three phase-. W. S. Moody. No. 1,141,199; June 1; Gaz. vol. 215; p. 38.
- Transformer-winding. C. L. Fortescue. No. 1,129,471; Feb. 23; Gaz. vol. 211; p. 1108.
- Transformers, Construction for rotary energy-. W. J. Wohlenberg. No. 1,162,839; Dec. 7; Gaz. vol. 221; p. 38.
- Transformers, Cooling system for. C. L. Fortescue. No. 1,135,103; Apr. 13; Gaz. vol. 213; p. 408.
- Transit. A. Lietz. No. 1,159,510; Nov. 9; Gaz. vol. 220; p. 416.
- Transit device. N. Whichello and H. Sawyer. No. 1,154,678; Sept. 28; Gaz. vol. 218; p. 913.
- Transit-frame. A. Lietz. No. 1,136,883; Apr. 20; Gaz. vol. 213; p. 1074.
- Transit, Surveyor's. R. G. Ainsworth. No. 1,132,236; Mar. 16; Gaz. vol. 212; p. 909.
- Transmission. R. E. Dial. No. 1,164,481; Dec. 14; Gaz. vol. 221; p. 656.
- Transmission. R. Diehl and H. Müller. No. 1,158,791; Nov. 2; Gaz. vol. 220; p. 134.
- Transmission apparatus. A. Kadow. No. 1,142,437; June 8; Gaz. vol. 215; p. 514.
- Transmission apparatus. A. B. Lakey and E. E. Ross. No. 1,158,243; Oct. 26; Gaz. vol. 219; p. 1138.
- Transmission apparatus, Gyroscopic. J. Fieux. No. 1,162,593; Nov. 30; Gaz. vol. 220; p. 1644.
- Transmission apparatus, Hydraulic. J. De Martino. No. 1,138,771; May 11; Gaz. vol. 214; p. 406.
- Transmission apparatus, Variable-speed universal hydraulic. C. Radiguer. No. 1,161,157; Nov. 23; Gaz. vol. 220; p. 1098.
- Transmission device. L. J. Campbell. No. 1,162,336; Nov. 30; Gaz. vol. 220; p. 1559.
- Transmission device. H. S. Greene. No. 1,157,098; Oct. 19; Gaz. vol. 219; p. 674.
- Transmission device. C. A. Street. No. 1,128,915; Feb. 16; Gaz. vol. 211; p. 877.
- Transmission device, Variable-speed-. C. Warren. No. 1,126,322; Jan. 26; Gaz. vol. 210; p. 1218.
- Transmission device, Variable-torque. C. A. Ward. No. 1,150,235; Aug. 17; Gaz. vol. 217; p. 790.
- Transmission, Direct-drive. W. D. Parsons. No. 1,136,709; Apr. 20; Gaz. vol. 213; p. 1013.
- Transmission, Hydraulic. W. B. Pepper. No. 1,136,363; Apr. 20; Gaz. vol. 213; p. 890.
- Transmission-line. E. E. F. Creighton. No. 1,131,216; Mar. 9; Gaz. vol. 212; p. 511.
- Transmission mechanism. E. U. Ames. No. 1,151,431; Aug. 24; Gaz. vol. 217; p. 1257.
- Transmission mechanism. A. S. Anderson. No. 1,143,928; June 22; Gaz. vol. 215; p. 1092.
- Transmission mechanism. C. E. Baker and E. M. De Long. No. 1,126,175; Jan. 26; Gaz. vol. 210; p. 1166.
- Transmission mechanism. W. A. Besserdich. No. 1,136,644; Apr. 20; Gaz. vol. 213; p. 989.
- Transmission mechanism. J. E. Bissell. No. 1,141,228; June 1; Gaz. vol. 215; p. 49.
- Transmission mechanism. F. M. Goodhue. No. 1,132,177; Mar. 16; Gaz. vol. 212; p. 887.
- Transmission mechanism. H. J. Heider. No. 1,154,767; Sept. 28; Gaz. vol. 218; p. 941.
- Transmission mechanism. F. L. Hitchcock. No. 1,165,410; Dec. 28; Gaz. vol. 221; p. 1060.
- Transmission mechanism. E. A. Minor. No. 1,161,066; Nov. 23; Gaz. vol. 220; p. 1065.
- Transmission mechanism. F. B. Rae. No. 1,153,338; Sept. 14; Gaz. vol. 218; p. 382.
- Transmission mechanism. C. E. Swenson and L. Faust. No. 1,143,794; June 22; Gaz. vol. 215; p. 1026.
- Transmission mechanism. G. W. Tibbitts. No. 1,134,981; Apr. 6; Gaz. vol. 213; p. 321.
- Transmission mechanism. W. N. Younglove. No. 1,164,444; Dec. 14; Gaz. vol. 221; p. 644.
- Transmission mechanism, Fluid-pressure-controlled. H. P. Hall. No. 1,159,018; Nov. 2; Gaz. vol. 220; p. 210.
- Transmission mechanism, Intermittent. C. Campus. No. 1,132,436; Mar. 16; Gaz. vol. 212; p. 981.
- Transmission of intelligence, System for the. R. A. Heising. No. 1,137,315; Apr. 27; Gaz. vol. 213; p. 1269.
- Transmission of intelligence, System of. E. H. Colpitts. No. 1,137,384; Apr. 27; Gaz. vol. 213; p. 1294.
- Transmission system, Hydraulic. T. A. Killman. No. 1,145,317; July 6; Gaz. vol. 216; p. 118.
- Transmitter. H. Gernsback. No. 1,124,413; Jan. 12; Gaz. vol. 210; p. 466.
- Transmitter or reproducer. W. E. Peirce. No. 1,144,236; June 22; Gaz. vol. 215; p. 1204.
- Transmitters, Resistance-cell for. F. Gottschalk. No. 1,137,479; Apr. 27; Gaz. vol. 213; p. 1327.
- Transmitting apparatus. J. J. Comer. No. 1,137,189; Apr. 27; Gaz. vol. 213; p. 1222.
- Transmitting intelligence by radiant energy. J. W. Lee and J. L. Hogan, Jr. No. 1,141,717; June 1; Gaz. vol. 215; p. 223.
- Transom draft-gear. J. M. Rohlfs. No. 1,149,220; Aug. 10; Gaz. vol. 217; p. 363.
- Transom-opener. J. S. Lovrinovich. No. 1,151,206; Aug. 24; Gaz. vol. 217; p. 1183.
- Transom-operating device. G. E. Neuberth. No. 1,126,835; Feb. 2; Gaz. vol. 211; p. 61.
- Transom-operating means. C. Kevitt. No. 1,159,951; Nov. 9; Gaz. vol. 220; p. 576.
- Transom-operating means. L. B. Smyser. No. 1,161,814; Nov. 23; Gaz. vol. 220; p. 1329.
- Transom-operator. S. J. Hoexter. No. 1,165,411; Dec. 28; Gaz. vol. 221; p. 1060.
- Transom-operator. A. A. Page. No. 1,159,413; Nov. 9; Gaz. vol. 220; p. 382.
- Transoms or windows, Device for opening and closing. J. Pelzer. No. 1,156,020; Oct. 5; Gaz. vol. 219; p. 241.
- Transparencies, Holder for viewing. B. J. Falk. No. 1,152,156; Aug. 31; Gaz. vol. 217; p. 1556.
- Transplanting device. C. Christensen. No. 1,151,341; Aug. 24; Gaz. vol. 217; p. 1228.
- Transplanting trees, Apparatus for. J. B. Spuhr. No. 1,139,735; May 18; Gaz. vol. 214; p. 781.
- Transport-lorry. J. M. L. Spangenberg. No. 1,138,422; May 4; Gaz. vol. 214; p. 247.
- Transportation-case. H. C. Gallagher. No. 1,134,525; Apr. 6; Gaz. vol. 213; p. 161.
- Transporters, Clamping device for overhead. A. Werner. No. 1,160,799; Nov. 16; Gaz. vol. 220; p. 928.
- Transporters, excavators, and the like, Grab for. F. Sochor. No. 1,142,637; June 8; Gaz. vol. 215; p. 581.
- Transporting and dumping material, Apparatus for. W. J. Newman. No. 1,134,151; Apr. 6; Gaz. vol. 213; p. 24.
- Transporting means, Overhead. E. W. Hays. No. 1,140,327; May 18; Gaz. vol. 214; p. 989.
- Trap—*See*—
- | | |
|---------------------|--------------------------------|
| Animal-trap. | Insect-trap. |
| Ant-trap. | Locomotive cinder blower-trap. |
| Automatic trap. | Mole-trap. |
| Bird-trap. | Mouse-trap. |
| Closet-trap. | Nest-trap. |
| Coin-trap. | Plumber's trap. |
| Crustacean-trap. | Radiator-trap. |
| Direct-return trap. | Rat-trap. |
| Drain-trap. | Roach-trap. |
| Drain-pipe trap. | Rodent-trap. |
| Drainage-trap. | Sand-trap. |
| Dumping-trap. | Separator-trap. |
| Electric trap. | Sewer-trap. |
| Fish-trap. | Sparrow-trap. |
| Flushing-trap. | Steam-trap. |
| Fly-trap. | Target-trap. |
| Gopher-trap. | Thermostatic trap. |
| Grease-trap. | Water-trap. |
| Hog-trap. | |
- Trap. R. C. Bell, W. H. Roberson, and D. C. Hinderlitter. No. 1,141,756; June 1; Gaz. vol. 215; p. 236.
- Trap. D. Craig. No. 1,152,300; Aug. 31; Gaz. vol. 217; p. 1604.
- Trap. T. E. Crosby. No. 1,123,495; Jan. 5; Gaz. vol. 210; p. 102.
- Trap. C. E. Danielson. No. 1,158,185; Oct. 26; Gaz. vol. 219; p. 1118.
- Trap. C. G. Duncan. No. 1,138,943; May 11; Gaz. vol. 214; p. 467.

Alphabetical list of inventions—Continued.

- Trap. A. C. Griffing. No. 1,157,382; Oct. 19; Gaz. vol. 219; p. 776.
 Trap. J. M. Lowrey. No. 1,126,801; Feb. 2; Gaz. vol. 211; p. 49.
 Trap. G. W. Morthland. No. 1,136,432; Apr. 20; Gaz. vol. 213; p. 915.
 Trap. W. H. Oldfield. No. 1,153,247; Sept. 14; Gaz. vol. 218; p. 349.
 Trap. S. M. Ryason. No. 1,152,980; Sept. 7; Gaz. vol. 218; p. 220.
 Trap. J. A. Schmidt. No. 1,146,106; July 13; Gaz. vol. 216; p. 415.
 Trap. J. B. Shadley. No. 1,155,842; Oct. 5; Gaz. vol. 219; p. 181.
 Trap. A. F. Smith. No. 1,123,410; Jan. 5; Gaz. vol. 210; p. 73.
 Trap. P. C. Thayer. No. 1,136,297; Apr. 20; Gaz. vol. 213; p. 866.
 Trap. J. R. Webster. No. 1,161,558; Nov. 23; Gaz. vol. 220; p. 1242.
 Trap-door fitting. A. H. Beckman. No. 1,165,384; Dec. 28; Gaz. vol. 221; p. 1050.
 Trap-door for discharge-openings. W. J. Newman. No. 1,143,852; June 22; Gaz. vol. 215; p. 1067.
 Trap jaws, Animal-. W. D. King. No. 1,136,015; Apr. 20; Gaz. vol. 213; p. 767.
 Trap-setter. V. Olson. No. 1,145,789; July 6; Gaz. vol. 216; p. 284.
 Trapping device. M. M. Durkee. No. 1,160,269; Nov. 16; Gaz. vol. 220; p. 739.
 Trash-catcher, Rotary. P. Ekman. No. 1,137,469; Apr. 27; Gaz. vol. 213; p. 1323.
 Traveler's bag or grip. H. L. Kennedy. No. 1,143,711; June 22; Gaz. vol. 215; p. 1019.
 Traveling-bag. A. Gray. No. 1,134,843; Apr. 6; Gaz. vol. 213; p. 274.
 Traveling-bag. M. Prosterman. No. 1,126,860; Feb. 2; Gaz. vol. 211; p. 70.
 Traveling-bag. W. Waldschmitt. No. 1,145,949; July 13; Gaz. vol. 216; p. 359.
 Traveling jack. G. W. Troutman. No. 1,131,018; Mar. 9; Gaz. vol. 212; p. 443.
 Traveling requisite. I. Rabinowitz. No. 1,125,396; Jan. 19; Gaz. vol. 210; p. 855.
 Traverse guide, Adjustable. C. Ryden. No. 1,133,186; Mar. 23; Gaz. vol. 212; p. 1304.
 Tray. S. Weinstein. No. 1,135,088; Apr. 13; Gaz. vol. 213; p. 403.
 Tray. Cold-proof service-. E. L. Stine. No. 1,124,968; Jan. 12; Gaz. vol. 210; p. 665.
 Tray-cover. C. Dudley. No. 1,135,269; Apr. 13; Gaz. vol. 213; p. 464.
 Tray, Developing-. G. M. Crawford. No. 1,135,503; Apr. 13; Gaz. vol. 213; p. 546.
 Tray, Folding. J. J. Stroud. No. 1,138,156; May 4; Gaz. vol. 214; p. 153.
 Tray-making machine, Adjustable. H. Inman and F. M. Joslin. No. 1,124,619; Jan. 12; Gaz. vol. 210; p. 541.
 Tray, Push crumb-. G. F. Maidens. No. 1,132,951; Mar. 23; Gaz. vol. 212; p. 1219.
 Trays and like receptacles, Holder for lard and butter. C. S. Trammell. No. 1,134,651; Apr. 6; Gaz. vol. 213; p. 208.
 Tread and producing the same, Safety-. G. Hopp. No. 1,156,081; Oct. 12; Gaz. vol. 219; p. 290.
 Tread device. W. B. Harrell. No. 1,149,912; Aug. 10; Gaz. vol. 217; p. 614.
 Tread-plate shaper. G. R. Gibson. No. 1,139,266; May 11; Gaz. vol. 214; p. 580.
 Treadle mechanism, Means for supporting. E. Kaufmann and R. J. Holt. No. 1,152,101; Aug. 31; Gaz. vol. 217; p. 1536.
 Treadle-operating mechanism. H. O. Bergerson. No. 1,161,018; Nov. 23; Gaz. vol. 220; p. 1050.
 Treating materials with a liquid, Machine for. F. Schubert. No. 1,154,440; Sept. 21; Gaz. vol. 218; p. 801.
 Tree: See—
 Boot-tree. Christmas tree.
 Boot and shoe tree. Shoe-tree.
 Tree-cavities, Composition for filling. C. H. Erwin. No. 1,160,701; Nov. 16; Gaz. vol. 220; p. 895.
 Tree-cutting machine. W. D. Baldwin and A. Sundh. No. 1,127,347; Feb. 2; Gaz. vol. 211; p. 237.
 Tree-feller. P. X. Johnson. No. 1,163,155; Dec. 7; Gaz. vol. 221; p. 147.
 Tree-felling device. O. A. Gooch. No. 1,154,624; Sept. 28; Gaz. vol. 218; p. 982.
 Tree-felling machine. P. R. Kramer. No. 1,125,346; Jan. 19; Gaz. vol. 210; p. 836.
 Tree-handling apparatus. D. F. Prevost. No. 1,138,972; May 11; Gaz. vol. 214; p. 477.
 Tree-holder. E. A. Bergwall. No. 1,159,353; Nov. 9; Gaz. vol. 220; p. 360.
 Tree-holder. L. D. Pangborn. No. 1,165,360; Dec. 21; Gaz. vol. 221; p. 1003.
 Tree protection. W. M. Scott. No. 1,130,545; Mar. 2; Gaz. vol. 212; p. 248.
 Tree protection. W. M. Scott. No. 1,130,546; Mar. 2; Gaz. vol. 212; p. 248.
 Tree protective apparatus, Fruit-. F. W. Eddy. No. 1,126,426; Jan. 28; Gaz. vol. 210; p. 1254.
 Tree-removing machine. H. C. Lewis. No. 1,131,392; Mar. 9; Gaz. vol. 212; p. 571.
 Tree-standard. T. F. Brown. No. 1,137,253; Apr. 27; Gaz. vol. 213; p. 1246.
 Trees, Marketing. G. Schlecht. No. 1,150,708; Aug. 17; Gaz. vol. 217; p. 955.
 Trees or other vegetation, Protector for. N. Hogan. No. 1,155,313; Sept. 28; Gaz. vol. 218; p. 1126.
 Trees, Support and protector for fruit-bearing. W. R. Winans. No. 1,128,087; Feb. 9; Gaz. vol. 211; p. 540.
 Trellis. G. C. Setchell. No. 1,127,530; Feb. 9; Gaz. vol. 211; p. 344.
 Trench-cutter and edge-trimmer. W. J. Schmidt. No. 1,157,809; Oct. 26; Gaz. vol. 219; p. 985.
 Trench-filler. B. F. Roberts. No. 1,152,049; Aug. 31; Gaz. vol. 217; p. 1518.
 Trench-jack. A. H. Claymiller. No. 1,132,763; Mar. 23; Gaz. vol. 212; p. 1149.
 Trestle, Adjustable. R. I. Loomis. No. 1,147,522; July 20; Gaz. vol. 216; p. 931.
 Trestle, Collapsible. J. R. Anderson. No. 1,147,668; July 20; Gaz. vol. 216; p. 983.
 Trestle, Extension-. F. H. Moulton. No. 1,140,390; May 25; Gaz. vol. 214; p. 1047.
 Trestle, Folding. C. C. Hensley. No. 1,150,938; Aug. 24; Gaz. vol. 217; p. 1092.
 Trestle, Folding. W. W. Horn. No. 1,143,397; June 15; Gaz. vol. 215; p. 889.
 Trestle for carpenters' use. A. P. Wagner. No. 1,153,470; Sept. 14; Gaz. vol. 218; p. 430.
 Trestle-frame and bracing means therefor. J. L. Funk. No. 1,133,230; Mar. 23; Gaz. vol. 212; p. 1318.
 Trestle, Mechanic's. C. B. Van Huzer. No. 1,159,299; Nov. 2; Gaz. vol. 220; p. 310.
 Triangle cast-off. J. P. Croasdale. No. 1,136,107; Apr. 20; Gaz. vol. 213; p. 798.
 Triangle, Draftsman's. E. Rogers. No. 1,131,962; Mar. 16; Gaz. vol. 212; p. 808.
 Triangle, Practice-. T. Matthay. No. 1,161,324; Nov. 23; Gaz. vol. 220; p. 1160.
 Trick-case. F. L. Rouse. No. 1,163,775; Dec. 14; Gaz. vol. 221; p. 410.
 Tricycle, Motor-. E. S. Beach. No. 1,139,835; May 18; Gaz. vol. 214; p. 817.
 Trimmer: See—
 Edge-trimmer. Load-trimmer.
 Hedge-trimmer. Rivet-head trimmer.
 Heel and rand trimmer. Seat-trimmer.
 Hoof-trimmer. Slug-trimmer.
 Lawn-trimmer. Veneer-trimmer.
 Lawn-edge trimmer. Wood-trimmer.
 Trimmer. A. McNish. No. 1,154,789; Sept. 28; Gaz. vol. 218; p. 949.
 Trimming-machine. W. Evans. No. 1,164,337; Dec. 14; Gaz. vol. 221; p. 606.
 Trimming-machine. J. B. Hadaway. No. 1,158,681; Nov. 2; Gaz. vol. 220; p. 95.
 Trimming-machine. E. L. Keyes. No. 1,130,742; Mar. 9; Gaz. vol. 212; p. 349.
 Trimming-machine. J. P. Wels. No. 1,155,534; Oct. 5; Gaz. vol. 219; p. 74.
 Trimming-tool. C. T. Ridgely. No. 1,146,023; July 13; Gaz. vol. 216; p. 387.
 Trip and station indicator. C. L. Carter. No. 1,133,005; Mar. 23; Gaz. vol. 212; p. 1240.
 Trip-hook. M. W. Jones. No. 1,144,415; June 29; Gaz. vol. 215; p. 1293.
 Tripping-coil, Time-controlled. G. A. Burnham. No. 1,126,384; Jan. 26; Gaz. vol. 210; p. 1239.
 Tripod, Collapsible. A. D. Robinson and A. P. Boller, Jr. No. 1,144,726; June 29; Gaz. vol. 215; p. 1400.
 Tripod-leveling device, Automatic. A. H. Olesberg. No. 1,135,914; Apr. 13; Gaz. vol. 213; p. 690.
 Triturating device. F. K. Hoover and A. J. Mason. No. 1,124,442; Jan. 12; Gaz. vol. 210; p. 476.
 Triturating-machine. D. Vecchini. No. 1,159,138; Nov. 2; Gaz. vol. 220; p. 251.
 Trocar. C. E. Kells. No. 1,147,408; July 20; Gaz. vol. 216; p. 893.
 Trolley. C. W. Aerial. No. 1,157,608; Oct. 19; Gaz. vol. 219; p. 850.
 Trolley. G. O. Burwell and C. M. Kurtz. No. 1,154,234; Sept. 21; Gaz. vol. 218; p. 729.
 Trolley. L. Davis. No. 1,162,984; Dec. 7; Gaz. vol. 221; p. 86.
 Trolley. M. Lev, Jr. No. 1,140,689; May 25; Gaz. vol. 214; p. 1151.
 Trolley. I. E. McCracken. No. 1,125,580; Jan. 19; Gaz. vol. 210; p. 917.
 Trolley. E. Y. Moore. No. 1,136,699; Apr. 20; Gaz. vol. 213; p. 1010.
 Trolley. W. F. Ream. No. 1,152,762; Sept. 7; Gaz. vol. 218; p. 139.
 Trolley. W. Schaaake. No. 1,138,693; May 11; Gaz. vol. 214; p. 378.
 Trolley. F. Sczavnylcki. No. 1,159,807; Nov. 9; Gaz. vol. 220; p. 624.
 Trolley. G. F. Steedman. No. 1,151,226; Aug. 24; Gaz. vol. 217; p. 1190.
 Trolley. F. Thornton. No. 1,136,847; Apr. 20; Gaz. vol. 213; p. 1062.

Alphabetical list of inventions—Continued.

- Trolley-actuated switch. E. H. Owsley. No. 1,153,515; Sept. 14; Gaz. vol. 218; p. 447.
- Trolley apparatus, Overhead. W. H. Kempton. No. 1,123,551; Jan. 5; Gaz. vol. 210; p. 121.
- Trolley, Automatic retrieving. S. E. McFarland. No. 1,157,630; Oct. 19; Gaz. vol. 219; p. 858.
- Trolley-base. C. E. Gierding. No. 1,131,831; Mar. 16; Gaz. vol. 212; p. 762.
- Trolley-catcher. M. A. Yeakley. No. 1,146,833; July 20; Gaz. vol. 216; p. 689.
- Trolley-catcher. M. A. Yeakley. No. 1,146,834; July 20; Gaz. vol. 216; p. 690.
- Trolley-catcher. M. A. Yeakley. No. 1,146,835; July 20; Gaz. vol. 216; p. 690.
- Trolley-conductor. W. Hoopes and T. Varney. No. 1,157,392; Oct. 19; Gaz. vol. 219; p. 779.
- Trolley-conductor. W. Hoopes and T. Varney. No. 1,157,393; Oct. 19; Gaz. vol. 219; p. 780.
- Trolley-conductor. W. Hoopes and T. Varney. No. 1,157,394; Oct. 19; Gaz. vol. 219; p. 780.
- Trolley-conductors, Supporting structure for. W. Schaafe. No. 1,132,734; Mar. 23; Gaz. vol. 212; p. 1139.
- Trolley-conductors, Supporting structure for. W. Schaafe. No. 1,150,067; Aug. 17; Gaz. vol. 217; p. 729.
- Trolley-contact. A. H. Caven. No. 1,138,279; May 4; Gaz. vol. 214; p. 195.
- Trolley-contact. J. F. Grohowsky. No. 1,126,989; Feb. 2; Gaz. vol. 211; p. 114.
- Trolley, Crane. G. A. True. No. 1,128,551; Feb. 16; Gaz. vol. 211; p. 750.
- Trolley-finder. R. Jacobucci. No. 1,126,018; Jan. 26; Gaz. vol. 210; p. 1106.
- Trolley-finder. D. P. Solomon. No. 1,161,421; Nov. 23; Gaz. vol. 220; p. 1195.
- Trolley-frog. W. H. Brown. No. 1,149,721; Aug. 10; Gaz. vol. 217; p. 545.
- Trolley-guard. A. P. Hawkins. No. 1,165,595; Dec. 28; Gaz. vol. 221; p. 1123.
- Trolley-guard. J. A. Love. No. 1,125,353; Jan. 19; Gaz. vol. 210; p. 838.
- Trolley-guard. J. Zanolli. No. 1,155,695; Oct. 5; Gaz. vol. 219; p. 129.
- Trolley-hanger. C. H. Davis. No. 1,124,712; Jan. 12; Gaz. vol. 210; p. 574.
- Trolley-hanger. W. T. Robinson and C. D. Hylton. No. 1,152,909; Sept. 7; Gaz. vol. 218; p. 194.
- Trolley-harp. J. C. Ollard. No. 1,141,407; June 1; Gaz. vol. 215; p. 115.
- Trolley-harp. C. Wetjen. No. 1,159,451; Nov. 9; Gaz. vol. 220; p. 396.
- Trolley-harp carrier. A. C. Miner. No. 1,137,271; Apr. 27; Gaz. vol. 213; p. 1253.
- Trolley-harp, Detachable. F. M. Du Bois. No. 1,145,006; July 6; Gaz. vol. 216; p. 9.
- Trolley-harp fastener. A. C. Miner. No. 1,164,955; Dec. 21; Gaz. vol. 221; p. 862.
- Trolley-head. M. H. Kashian. No. 1,134,136; Apr. 6; Gaz. vol. 213; p. 19.
- Trolley-head. W. Volpe. No. 1,146,040; July 13; Gaz. vol. 216; p. 393.
- Trolley-head. A. L. Williams. No. 1,130,361; Mar. 2; Gaz. vol. 212; p. 180.
- Trolley, Holst. C. S. Williamson. No. 1,148,482; July 27; Gaz. vol. 216; p. 1296.
- Trolley-line anchor. L. A. Hausler. No. 1,147,799; July 27; Gaz. vol. 216; p. 1054.
- Trolley-line fog-signal. W. F. Hoeltke. No. 1,160,896; Nov. 16; Gaz. vol. 220; p. 961.
- Trolley-line hanger. C. H. Robertson. No. 1,133,403; Mar. 30; Gaz. vol. 212; p. 1417.
- Trolley-lines, Steady-brace for. G. A. Mead and W. H. Kempton. No. 1,138,773; May 11; Gaz. vol. 214; p. 407.
- Trolley mechanism. J. Hollis. No. 1,146,877; July 20; Gaz. vol. 216; p. 705.
- Trolley mechanism. G. E. Lynch. No. 1,138,965; May 11; Gaz. vol. 214; p. 475.
- Trolley mechanism for railway-cars. C. Kaspar. No. 1,149,651; Aug. 10; Gaz. vol. 217; p. 522.
- Trolley-mechanism support, Electric. F. C. Coseo. No. 1,142,935; June 15; Gaz. vol. 215; p. 724.
- Trolley-operated contact. C. W. Ward. No. 1,151,981; Aug. 31; Gaz. vol. 217; p. 1495.
- Trolley-pole. W. W. Clark. No. 1,152,707; Sept. 7; Gaz. vol. 218; p. 120.
- Trolley-pole. J. De Angelis. No. 1,140,126; May 18; Gaz. vol. 214; p. 921.
- Trolley-pole. C. O. Shaub. No. 1,146,661; July 13; Gaz. vol. 216; p. 611.
- Trolley-pole base. C. E. Gierding. No. 1,154,759; Sept. 28; Gaz. vol. 218; p. 939.
- Trolley-pole of electrically-driven vehicles, Device for automatically lowering the. C. Kodderitzsch. No. 1,127,453; Feb. 9; Gaz. vol. 211; p. 317.
- Trolley protective system. A. Klimes. No. 1,130,612; Mar. 2; Gaz. vol. 212; p. 270.
- Trolley-rail switches, Safety attachment for. L. J. Miller. No. 1,144,371; June 29; Gaz. vol. 215; p. 1279.
- Trolley-replacer. G. D. Hoppes. No. 1,136,803; Apr. 20; Gaz. vol. 213; p. 1046.
- Trolley-restorer. L. T. Chrisman. No. 1,133,263; Mar. 30; Gaz. vol. 212; p. 1366.
- Trolley-retriever. E. Benson. No. 1,152,269; Aug. 31; Gaz. vol. 217; p. 1593.
- Trolley-retriever. R. E. Gearhart. No. 1,163,139; Dec. 7; Gaz. vol. 221; p. 141.
- Trolley-retriever. J. E. Gundry. No. 1,136,228; Apr. 20; Gaz. vol. 213; p. 841.
- Trolley-retriever. G. B. Reaben. No. 1,135,845; Apr. 13; Gaz. vol. 213; p. 667.
- Trolley-retriever. I. W. Smith. No. 1,129,912; Mar. 2; Gaz. vol. 212; p. 27.
- Trolley-retriever. F. A. Wasson. No. 1,143,002; June 15; Gaz. vol. 215; p. 748.
- Trolley-retriever. M. A. Yeakley. No. 1,143,875; June 22; Gaz. vol. 215; p. 1075.
- Trolley retriever or safety device. M. A. Yeakley. No. 1,143,874; June 22; Gaz. vol. 215; p. 1075.
- Trolley retrievers and catchers, Spring-protector for. M. O. Dolson. No. 1,127,206; Feb. 2; Gaz. vol. 211; p. 191.
- Trolley, Retrieving. C. E. Lang. No. 1,124,624; Jan. 12; Gaz. vol. 210; p. 543.
- Trolley signal systems, Circuit-closer for. R. V. Cheatham. No. 1,136,314; Apr. 20; Gaz. vol. 213; p. 872.
- Trolley-stop. E. E. Conrad. No. 1,155,214; Sept. 28; Gaz. vol. 218; p. 1095.
- Trolley-switch. W. R. Daggett. No. 1,127,864; Feb. 9; Gaz. vol. 211; p. 462.
- Trolley-switch. J. J. Ruddick. No. 1,130,340; Mar. 2; Gaz. vol. 212; p. 173.
- Trolley-track. P. L. Hoffman. No. 1,130,820; Mar. 9; Gaz. vol. 212; p. 375.
- Trolley-track and hood. G. F. Van Deventer. No. 1,161,271; Nov. 23; Gaz. vol. 220; p. 1141.
- Trolley-track bracket. P. L. Hoffman. No. 1,152,630; Sept. 7; Gaz. vol. 218; p. 92.
- Trolley-wheel. H. C. and J. C. Adam. No. 1,141,512; June 1; Gaz. vol. 215; p. 152.
- Trolley-wheel. J. W. Anderson. No. 1,143,880; June 22; Gaz. vol. 215; p. 1077.
- Trolley-wheel. C. M. Brennan. No. 1,154,170; Sept. 21; Gaz. vol. 218; p. 709.
- Trolley-wheel. S. G. Buskard. No. 1,156,270; Oct. 12; Gaz. vol. 219; p. 352.
- Trolley-wheel. H. R. Davidson. No. 1,132,168; Mar. 16; Gaz. vol. 212; p. 884.
- Trolley-wheel. E. E. Eby. No. 1,155,226; Sept. 28; Gaz. vol. 218; p. 1098.
- Trolley-wheel. W. S. Griffith. No. 1,155,913; Oct. 5; Gaz. vol. 219; p. 205.
- Trolley-wheel. F. Leadbeater. No. 1,125,569; Jan. 19; Gaz. vol. 210; p. 913.
- Trolley-wheel. F. Leadbeater. No. 1,162,175; Nov. 30; Gaz. vol. 220; p. 1503.
- Trolley-wheel. J. C. Ollard. No. 1,141,406; June 1; Gaz. vol. 215; p. 115.
- Trolley-wheel bearing. S. L. McAdams. No. 1,132,949; Mar. 23; Gaz. vol. 212; p. 1219.
- Trolley-wheel guard. J. A. Gallagher and E. T. Herboltsheimer. No. 1,142,033; June 8; Gaz. vol. 215; p. 370.
- Trolley-wheel guard. J. C. Hanson. No. 1,124,428; Jan. 12; Gaz. vol. 210; p. 471.
- Trolley-wheel guard. W. L. James. No. 1,159,678; Nov. 9; Gaz. vol. 220; p. 476.
- Trolley-wheel mount. L. W. Ashley. No. 1,141,518; June 1; Gaz. vol. 215; p. 154.
- Trolley-wheel mount. G. H. Bolus. No. 1,138,723; May 11; Gaz. vol. 214; p. 389.
- Trolley-wheel mount. J. James. No. 1,149,447; Aug. 10; Gaz. vol. 217; p. 445.
- Trolley-wheel mount. S. Parent. No. 1,146,203; July 13; Gaz. vol. 216; p. 450.
- Trolley-wheel mount. T. Sanders. No. 1,142,846; June 15; Gaz. vol. 215; p. 691.
- Trolley-wheel mount. J. Wilder. No. 1,130,359; Mar. 2; Gaz. vol. 212; p. 179.
- Trolley-wheel mount. J. Wilder. No. 1,130,360; Mar. 2; Gaz. vol. 212; p. 179.
- Trolley-wheel mount. J. Wilder. No. 1,136,574; Apr. 20; Gaz. vol. 213; p. 966.
- Trolley-wheel mount. R. Zawericz. No. 1,136,199; Apr. 20; Gaz. vol. 213; p. 831.
- Trolley-wheel support. A. W. Hampshire. No. 1,125,518; Jan. 19; Gaz. vol. 210; p. 896.
- Trolley-wire-centering device. R. T. Fingado. No. 1,140,587; May 25; Gaz. vol. 214; p. 1117.
- Trolley-wire clamp. W. D. Hall. No. 1,161,474; Nov. 23; Gaz. vol. 220; p. 1213.
- Trolley-wire connector. C. P. McDonald. No. 1,125,859; Jan. 19; Gaz. vol. 210; p. 1016.
- Trolley-wire hanger. W. C. Starkey and G. H. Bolus. No. 1,161,081; Nov. 23; Gaz. vol. 220; p. 1071.
- Trolley-wire lock-hanger. G. H. Bolus. No. 1,142,394; June 8; Gaz. vol. 215; p. 498.
- Trolley-wire pick-up. G. H. Bolus. No. 1,165,385; Dec. 28; Gaz. vol. 221; p. 1050.
- Trolley-wire splice. W. Clark and T. Beadling. No. 1,125,816; Jan. 19; Gaz. vol. 210; p. 1004.
- Trolley-wire support. W. F. Detwiler. No. 1,164,633; Dec. 21; Gaz. vol. 221; p. 749.
- Trolley-wire switch. F. H. Boyle. No. 1,148,439; July 27; Gaz. vol. 216; p. 1281.
- Trolley-wires and the like, Suspension device for. F. S. Denneen. No. 1,129,077; Feb. 23; Gaz. vol. 211; p. 969.

Alphabetical list of inventions—Continued.

- Trolley-wires, Coupling or splice for. G. W. Robinson and M. E. Harding. No. 1,132,388; Mar. 16; Gaz. vol. 212; p. 964.
- Trolley-wires, Sleet-cutter for. W. H. Ahrens. No. 1,154,828; Sept. 28; Gaz. vol. 218; p. 963.
- Trolley-wires, Suspension device for. G. H. Bolus. No. 1,138,184; May 4; Gaz. vol. 214; p. 163.
- Trolleys, Automatic stop for crane. P. Focardi. No. 1,150,003; Aug. 10; Gaz. vol. 217; p. 647.
- Trolleys, Combined frog and switch for overhead. H. Crist. No. 1,160,142; Nov. 16; Gaz. vol. 220; p. 695.
- Trolleys for trolley-wheels of overhead trolleys for electric cars, Guide for. W. N. Bauer. No. 1,165,309; Dec. 21; Gaz. vol. 221; p. 985.
- Trolling-spoon. G. W. Fey. No. 1,123,717; Jan. 5; Gaz. vol. 210; p. 177.
- Trolling-spoon. H. W. McMahon. No. 1,136,475; Apr. 20; Gaz. vol. 213; p. 931.
- Trombone. T. L. Jackson. No. 1,145,145; July 6; Gaz. vol. 216; p. 60.
- Trombone-slide. E. E. Whitney. No. 1,130,358; Mar. 2; Gaz. vol. 212; p. 179.
- Trough: *See—*
- | | |
|------------------|------------------|
| Drinking-trough. | Stock-trough. |
| Feed-trough. | Water-trough. |
| Feeding-trough. | Watering-trough. |
| Spray-trough. | Window-trough. |
- Trousers. A. A. Brown. No. 1,126,379; Jan. 26; Gaz. vol. 210; p. 1238.
- Trousers. W. H. Downs. No. 1,130,966; Mar. 9; Gaz. vol. 212; p. 425.
- Trousers. S. A. Goodman. No. 1,130,506; Mar. 2; Gaz. vol. 212; p. 234.
- Trousers. L. T. Struck. No. 1,128,824; Feb. 16; Gaz. vol. 211; p. 844.
- Trousers appliance. M. V. Hammack. No. 1,165,093; Dec. 21; Gaz. vol. 221; p. 910.
- Trousers attachment. J. J. Carney. No. 1,140,251; May 18; Gaz. vol. 214; p. 963.
- Trousers belt attachment. W. D. Woodruff. No. 1,155,187; Sept. 28; Gaz. vol. 218; p. 1087.
- Trousers, Curtain for knee-. J. Schwarz. No. 1,132,040; Mar. 16; Gaz. vol. 212; p. 837.
- Trousers, Curtain for knee-. J. Schwarz. (Reissue.) No. 1,936; June 22; Gaz. vol. 215; p. 1247.
- Trousers-fastener. G. D. Holzman and J. L. Rishe. No. 1,146,878; July 20; Gaz. vol. 216; p. 706.
- Trousers-press. S. R. Cohn. No. 1,164,472; Dec. 14; Gaz. vol. 221; p. 653.
- Trousers-stretcher. H. Kumpan. No. 1,124,921; Jan. 12; Gaz. vol. 210; p. 648.
- Trousers-stretcher. F. A. Lyons. No. 1,153,128; Sept. 7; Gaz. vol. 218; p. 269.
- Trousers-stretching device. E. S. Fisher. No. 1,157,521; Oct. 19; Gaz. vol. 219; p. 824.
- Trousers-supporting device. H. L. Newman. No. 1,152,204; Aug. 31; Gaz. vol. 217; p. 1571.
- Trousers-waistband. H. Cohen. No. 1,166,113; Dec. 28; Gaz. vol. 221; p. 1305.
- Trowel. C. E. Ayers. No. 1,164,161; Dec. 14; Gaz. vol. 221; p. 544.
- Trowel. F. B. Hardsocg. No. 1,125,844; Jan. 19; Gaz. vol. 210; p. 1012.
- Trowel. T. N. Wilson. No. 1,166,293; Dec. 28; Gaz. vol. 221; p. 1373.
- Trowel, Putty-. J. G. Morris. No. 1,126,253; Jan. 26; Gaz. vol. 210; p. 1194.
- Truck. F. M. Alexander. No. 1,150,727; Aug. 17; Gaz. vol. 217; p. 961.
- Truck. W. E. Andree. No. 1,144,957; June 29; Gaz. vol. 215; p. 1478.
- Truck. H. G. Anthony. No. 1,129,775; Feb. 23; Gaz. vol. 211; p. 1209.
- Truck. H. G. Anthony. No. 1,129,776; Feb. 23; Gaz. vol. 211; p. 1210.
- Truck. A. M. Barrett. No. 1,125,634; Jan. 19; Gaz. vol. 210; p. 937.
- Truck. S. A. Bullock. No. 1,143,500; June 15; Gaz. vol. 215; p. 922.
- Truck. W. C. Carr. No. 1,129,954; Mar. 2; Gaz. vol. 212; p. 41.
- Truck. G. P. Clark, W. F. Irrgang, and G. E. Clark. No. 1,152,788; Sept. 7; Gaz. vol. 218; p. 149.
- Truck. W. J. Doust, Jr. No. 1,149,639; Aug. 10; Gaz. vol. 217; p. 517.
- Truck. W. L. Dustman. No. 1,142,944; June 15; Gaz. vol. 215; p. 727.
- Truck. A. J. Edmonds. No. 1,165,954; Dec. 28; Gaz. vol. 221; p. 1249.
- Truck. F. Gunning. No. 1,136,954; Apr. 27; Gaz. vol. 213; p. 1136.
- Truck. J. R. Harper. No. 1,126,457; Jan. 26; Gaz. vol. 210; p. 1266.
- Truck. H. H. Juergens. No. 1,146,077; July 13; Gaz. vol. 216; p. 406.
- Truck. C. A. Lindsay. No. 1,148,599; Aug. 3; Gaz. vol. 217; p. 41.
- Truck. I. McCoon. No. 1,146,635; July 13; Gaz. vol. 216; p. 603.
- Truck. N. McDougall. No. 1,140,470; May 25; Gaz. vol. 214; p. 1076.
- Truck. W. S. Miller. No. 1,123,777; Jan. 5; Gaz. vol. 210; p. 198.
- Truck. W. J. H. Schroeder. No. 1,124,178; Jan. 5; Gaz. vol. 210; p. 333.
- Truck. J. H. Smith. No. 1,151,729; Aug. 31; Gaz. vol. 217; p. 1406.
- Truck. J. H. Smith. No. 1,152,564; Sept. 7; Gaz. vol. 218; p. 69.
- Truck. W. Stuebing, Jr. No. 1,160,666; Nov. 16; Gaz. vol. 220; p. 881.
- Truck. B. R. Van Kirk. No. 1,133,203; Mar. 23; Gaz. vol. 212; p. 1310.
- Truck. H. M. Verplanck. No. 1,150,082; Aug. 17; Gaz. vol. 217; p. 734.
- Truck. E. Whalley. No. 1,138,337; May 4; Gaz. vol. 214; p. 217.
- Truck-adjusting mechanism. F. E. Furrer. No. 1,131,050; Mar. 9; Gaz. vol. 212; p. 454.
- Truck-adjusting mechanism. T. E. Lind. No. 1,126,798; Feb. 2; Gaz. vol. 211; p. 48.
- Truck, Aerial-ladder. R. J. Voelker. No. 1,143,560; June 15; Gaz. vol. 215; p. 942.
- Truck, All-steel. A. C. Stebbins. No. 1,143,088; June 15; Gaz. vol. 215; p. 778.
- Truck and brake mechanism. Car. W. C. Kroegher. No. 1,148,026; July 27; Gaz. vol. 216; p. 1135.
- Truck, Arch-bar. F. Ditchfield. No. 1,126,729; Feb. 2; Gaz. vol. 211; p. 22.
- Truck, Armored military. W. H. Doyle. No. 1,150,748; Aug. 17; Gaz. vol. 217; p. 967.
- Truck, Articulated car. C. H. Howard and H. M. Pfleger. No. 1,144,328; June 22; Gaz. vol. 215; p. 1235.
- Truck, Articulated car. C. H. Howard and H. M. Pfleger. No. 1,144,329; June 22; Gaz. vol. 215; p. 1235.
- Truck, Automobile jack-. R. McCalmont. No. 1,134,211; Apr. 6; Gaz. vol. 213; p. 47.
- Truck, Automobile repair-. W. Shuey. No. 1,132,983; Mar. 23; Gaz. vol. 212; p. 1231.
- Truck, Barrel-. W. G. Curtis. No. 1,165,076; Dec. 21; Gaz. vol. 221; p. 904.
- Truck, Barrel-. A. Laton. No. 1,124,767; Jan. 12; Gaz. vol. 210; p. 594.
- Truck-bolster. F. L. Barber and E. W. Webb. No. 1,126,936; Feb. 2; Gaz. vol. 211; p. 95.
- Truck-bolster end member, Reinforced. W. S. Atwood. No. 1,123,214; Jan. 5; Gaz. vol. 210; p. 3.
- Truck-bolster, Cast. Y. Miyasaki. No. 1,156,305; Oct. 12; Gaz. vol. 219; p. 363.
- Truck-bolsters, Swing-dampener for. S. A. Bullock. No. 1,130,665; Mar. 2; Gaz. vol. 212; p. 288.
- Truck-brake. A. Headley. No. 1,148,772; Aug. 3; Gaz. vol. 217; p. 105.
- Truck brake and handle. C. B. Rusk. No. 1,134,015; Mar. 30; Gaz. vol. 212; p. 1629.
- Truck brake, Car-. A. Wagner. No. 1,131,446; Mar. 9; Gaz. vol. 212; p. 591.
- Truck brake, House-moving-. F. D. Milligan. No. 1,129,413; Feb. 23; Gaz. vol. 211; p. 1087.
- Truck, Car-. W. S. Adams. No. 1,127,716; Feb. 9; Gaz. vol. 211; p. 408.
- Truck, Car-. W. S. Adams. No. 1,133,252; Mar. 30; Gaz. vol. 212; p. 1363.
- Truck, Car-. W. S. Adams. No. 1,157,971; Oct. 26; Gaz. vol. 219; p. 1044.
- Truck, Car-. W. S. Adams. No. 1,161,015; Nov. 23; Gaz. vol. 220; p. 1049.
- Truck, Car-. W. S. Adams. No. 1,162,201; Nov. 30; Gaz. vol. 220; p. 1512.
- Truck, Car-. J. C. Barber. No. 1,128,090; Feb. 9; Gaz. vol. 211; p. 541.
- Truck, Car-. R. W. Burnett. No. 1,149,181; Aug. 10; Gaz. vol. 217; p. 349.
- Truck, Car-. S. M. Curwen. No. 1,138,357; May 4; Gaz. vol. 214; p. 224.
- Truck, Car-. H. H. Hewitt. No. 1,123,293; Jan. 5; Gaz. vol. 210; p. 31.
- Truck, Car-. H. H. Hewitt. No. 1,130,730; Mar. 9; Gaz. vol. 212; p. 344.
- Truck, Car-. C. H. Howard and H. M. Pfleger. No. 1,146,257; July 13; Gaz. vol. 216; p. 469.
- Truck, Car-. B. W. Kadel. No. 1,124,746; Jan. 12; Gaz. vol. 210; p. 586.
- Truck, Car-. W. F. Kiesel, Jr. No. 1,153,117; Sept. 7; Gaz. vol. 218; p. 266.
- Truck, Car-. C. A. Lindström. No. 1,160,295; Nov. 16; Gaz. vol. 220; p. 748.
- Truck, Car-. H. M. Pfleger. No. 1,147,430; July 20; Gaz. vol. 216; p. 900.
- Truck, Car-. C. Schütz. No. 1,128,533; Feb. 16; Gaz. vol. 211; p. 744.
- Truck, Car-. G. E. Scott. No. 1,135,627; Apr. 13; Gaz. vol. 213; p. 590.
- Truck, Car-. W. H. Stevenson. No. 1,142,379; June 8; Gaz. vol. 215; p. 491.
- Truck, Car-. W. H. Stevenson. No. 1,149,415; Aug. 10; Gaz. vol. 217; p. 434.
- Truck, Car-. J. C. Whitridge. No. 1,152,251; Aug. 31; Gaz. vol. 217; p. 1587.
- Truck, Car-. W. H. Wilson. No. 1,131,884; Mar. 16; Gaz. vol. 212; p. 780.
- Truck, Casket-. C. B. Dolge. No. 1,138,641; May 11; Gaz. vol. 214; p. 359.

Alphabetical list of inventions—Continued.

- Truck-centering device for locomotives, Trailer-. C. F. Frede. No. 1,152,164; Aug. 31; Gaz. vol. 217; p. 1558.
- Truck, Charging-. T. Gray. No. 1,164,640; Dec. 21; Gaz. vol. 221; p. 752.
- Truck connection for locomotives and cars. W. F. Keisel, Jr. No. 1,133,971; Mar. 30; Gaz. vol. 212; p. 1616.
- Truck, Contracting dry-kiln. M. H. Fielding. No. 1,125,082; Jan. 19; Gaz. vol. 210; p. 740.
- Truck-coupling. E. Fitzgerald. No. 1,139,657; May 18; Gaz. vol. 214; p. 755.
- Truck, Dumping-. F. M. Basheller. No. 1,145,740; July 6; Gaz. vol. 216; p. 268.
- Truck, Dumping-. J. P. Dowd and M. S. Thompson. No. 1,131,489; Mar. 9; Gaz. vol. 212; p. 606.
- Truck, Dumping-. C. J. Young. No. 1,157,749; Oct. 26; Gaz. vol. 219; p. 966.
- Truck, Dumping motor-. C. Lynch. No. 1,157,560; Oct. 19; Gaz. vol. 219; p. 836.
- Truck, Elevating-. M. E. Bailey. No. 1,146,779; July 20; Gaz. vol. 216; p. 671.
- Truck, Elevating-. E. M. Chapman and C. E. Cowan. No. 1,135,765; Apr. 13; Gaz. vol. 213; p. 638.
- Truck, Elevating-. G. E. Clark. No. 1,136,905; Apr. 20; Gaz. vol. 213; p. 1082.
- Truck, Elevating-. G. W. Drexellus. No. 1,134,113; Apr. 6; Gaz. vol. 213; p. 10.
- Truck, Elevating-. W. J. McCallum and W. Chambers. No. 1,149,457; Aug. 10; Gaz. vol. 217; p. 448.
- Truck, Elevating-. W. J. Oldroyd. No. 1,135,545; Apr. 13; Gaz. vol. 213; p. 560.
- Truck, Elevating-. M. Ruckes. No. 1,165,714; Dec. 28; Gaz. vol. 221; p. 1167.
- Truck, Elevating baggage-. T. E. Brown. No. 1,141,928; June 8; Gaz. vol. 215; p. 332.
- Truck, Elevating transfer-. E. S. Todd and B. T. Noble. No. 1,136,906; Apr. 20; Gaz. vol. 213; p. 1083.
- Truck, Elevator-. S. C. Cropp. No. 1,139,494; May 18; Gaz. vol. 214; p. 697.
- Truck, Emergency-. T. J. Balmer. No. 1,152,265; Aug. 31; Gaz. vol. 217; p. 1592.
- Truck, Equalized car-. W. J. Schlacks. No. 1,148,629; Aug. 3; Gaz. vol. 217; p. 53.
- Truck-fender, Automobile. J. B. and G. H. Armitage. No. 1,128,833; Feb. 16; Gaz. vol. 211; p. 847.
- Truck for handling brick and like material. W. H. Barnes. No. 1,130,243; Mar. 2; Gaz. vol. 212; p. 139.
- Truck for harvesters, Tongue-. J. Dain. No. 1,156,216; Oct. 12; Gaz. vol. 219; p. 334.
- Truck for locomotives, Trailer-. C. F. Frede and C. T. Westlake. No. 1,160,874; Nov. 16; Gaz. vol. 220; p. 953.
- Truck for locomotives, Trailer-. H. M. Pfager. No. 1,160,751; Nov. 16; Gaz. vol. 220; p. 912.
- Truck for locomotives, Trailer-. C. T. Westlake. No. 1,129,930; Mar. 2; Gaz. vol. 212; p. 34.
- Truck for manure-spreaders, Front. S. H. Garst. No. 1,127,429; Feb. 9; Gaz. vol. 211; p. 308.
- Truck for moving trees, &c. T. O'Leary. No. 1,161,878; Nov. 30; Gaz. vol. 220; p. 1398.
- Truck for railway-cars, Six-wheel. J. A. Pilcher. No. 1,151,386; Aug. 24; Gaz. vol. 217; p. 1242.
- Truck for railway-cars, Six-wheel. J. A. Pilcher. No. 1,165,206; Dec. 21; Gaz. vol. 221; p. 951.
- Truck for road-leveling machines. N. S. Monroe. No. 1,133,875; Mar. 30; Gaz. vol. 212; p. 1587.
- Truck for transporting corn-conveyers or the like. A. F. Palmer. No. 1,152,207; Aug. 31; Gaz. vol. 217; p. 1572.
- Truck-frame and journal-box, Combined. I. A. Randel. No. 1,123,374; Jan. 5; Gaz. vol. 210; p. 61.
- Truck-gear for vehicles. C. P. Moore. No. 1,160,941; Nov. 16; Gaz. vol. 220; p. 977.
- Truck, Hand-. C. S. Calhoun. No. 1,139,636; May 18; Gaz. vol. 214; p. 747.
- Truck, Hand-. A. H. Campbell. No. 1,140,795; May 25; Gaz. vol. 214; p. 1187.
- Truck, Hand-. B. V. Harvey and B. K. Watkins. No. 1,155,235; Sept. 28; Gaz. vol. 218; p. 1101.
- Truck, Hand-. O. Hovde. No. 1,165,507; Dec. 28; Gaz. vol. 221; p. 1093.
- Truck, Hand-. W. A. Lounsbury. No. 1,125,571; Jan. 19; Gaz. vol. 210; p. 914.
- Truck, Hand-. W. H. McCarthy. No. 1,137,993; May 4; Gaz. vol. 214; p. 94.
- Truck, Hand-. E. H. Mead. No. 1,135,603; Apr. 13; Gaz. vol. 213; p. 582.
- Truck, Hand-. R. O. Phelps. No. 1,150,964; Aug. 24; Gaz. vol. 217; p. 1100.
- Truck, Hand-. J. J. Ross. No. 1,150,539; Aug. 17; Gaz. vol. 217; p. 896.
- Truck, Harrow-. E. Morgan. No. 1,128,711; Feb. 16; Gaz. vol. 211; p. 804.
- Truck, Hauling-. L. La Brade. No. 1,161,694; Nov. 23; Gaz. vol. 220; p. 1289.
- Truck, House-moving. R. E. Choate. No. 1,160,690; Nov. 16; Gaz. vol. 220; p. 891.
- Truck, Lifting-. C. E. M. Miller. No. 1,139,891; May 18; Gaz. vol. 214; p. 837.
- Truck, Loading and unloading. J. V. Oldham. No. 1,148,531; Aug. 3; Gaz. vol. 217; p. 17.
- Truck, Locomotive-. H. R. Stafford. No. 1,163,623; Dec. 7; Gaz. vol. 221; p. 311.
- Truck, Locomotive trailing. J. G. Blunt. No. 1,133,427; Mar. 30; Gaz. vol. 212; p. 1425.
- Truck, Locomotive trailing. F. J. Cole and F. F. Scoville. No. 1,143,943; June 22; Gaz. vol. 215; p. 1098.
- Truck, Locomotive trailing. C. L. Heisler. No. 1,126,761; Feb. 2; Gaz. vol. 211; p. 34.
- Truck, Logging-. E. G. Chandler. No. 1,140,875; May 25; Gaz. vol. 214; p. 1217.
- Truck, Milk and bag. J. M. Thoman. No. 1,127,546; Feb. 9; Gaz. vol. 211; p. 349.
- Truck, Mining-machine. C. E. Davis. No. 1,141,943; June 8; Gaz. vol. 215; p. 337.
- Truck, Mining-machine. C. J. E. Waxbom. No. 1,136,301; Apr. 20; Gaz. vol. 213; p. 868.
- Truck, Motor-. S. J. Bernheimer. No. 1,141,924; June 8; Gaz. vol. 215; p. 331.
- Truck, Motor-. B. M. Beskow. No. 1,124,275; Jan. 12; Gaz. vol. 210; p. 416.
- Truck, Motor-. F. D. Burris. No. 1,139,635; May 18; Gaz. vol. 214; p. 746.
- Truck, Motor-. C. T. Eldredge. No. 1,165,161; Dec. 21; Gaz. vol. 221; p. 935.
- Truck, Motor-driven. J. G. Kerst. No. 1,139,981; May 18; Gaz. vol. 214; p. 868.
- Truck or carrier for cylindrical objects. N. L. Anthony. No. 1,153,476; Sept. 14; Gaz. vol. 218; p. 432.
- Truck-pedestal. W. C. Hedgcock. No. 1,143,707; June 22; Gaz. vol. 215; p. 1017.
- Truck pedestal, Car-. W. C. Hedgcock. No. 1,157,867; Oct. 26; Gaz. vol. 219; p. 1006.
- Truck, Plano-. J. W. Brown. No. 1,164,332; Dec. 14; Gaz. vol. 221; p. 604.
- Truck, Platform-. E. L. Peterson. No. 1,143,134; June 15; Gaz. vol. 215; p. 793.
- Truck, Portable barrel-. E. L. Schanck. No. 1,146,527; July 13; Gaz. vol. 216; p. 565.
- Truck, Portable hand-. W. N. Black. No. 1,131,656; Mar. 16; Gaz. vol. 212; p. 697.
- Truck, Railway-. M. B. Giberson and H. Roberts. No. 1,133,275; Mar. 30; Gaz. vol. 212; p. 1371.
- Truck, Railway-car. R. W. Davis. No. 1,128,110; Feb. 9; Gaz. vol. 211; p. 548.
- Truck, Railway-car. G. H. Gilman. No. 1,128,771; Feb. 16; Gaz. vol. 211; p. 824.
- Truck, Railway-car. E. W. Summers. No. 1,144,392; June 29; Gaz. vol. 215; p. 1286.
- Truck, Railway-car. E. W. Summers. No. 1,158,331; Oct. 26; Gaz. vol. 219; p. 1169.
- Truck, Repairman's. F. A. French. No. 1,136,327; Apr. 20; Gaz. vol. 213; p. 877.
- Truck, Self loading and unloading motor-. F. Clayton. No. 1,142,672; June 8; Gaz. vol. 215; p. 592.
- Truck, Short-turning. C. J. Clarke. No. 1,133,838; Mar. 30; Gaz. vol. 212; p. 1573.
- Truck side frame. W. D. Forsyth. No. 1,125,288; Jan. 19; Gaz. vol. 210; p. 815.
- Truck side frame, Car-. E. H. Benners. No. 1,131,031; Mar. 9; Gaz. vol. 212; p. 448.
- Truck side frame, Car-. W. D. Forsyth. No. 1,125,289; Jan. 19; Gaz. vol. 210; p. 816.
- Truck side frame, Car-. W. D. Forsyth. No. 1,125,290; Jan. 19; Gaz. vol. 210; p. 816.
- Truck side frame, Car-. W. D. Forsyth. No. 1,125,295; Jan. 19; Gaz. vol. 210; p. 817.
- Truck side frame, Car-. W. D. Forsyth. No. 1,125,298; Jan. 19; Gaz. vol. 210; p. 818.
- Truck side frame, Car-. W. D. Forsyth. No. 1,125,299; Jan. 19; Gaz. vol. 210; p. 819.
- Truck side frame, Car-. J. A. Lamont. No. 1,157,876; Oct. 26; Gaz. vol. 219; p. 1009.
- Truck side frame, Car-. C. W. Sherman. No. 1,151,727; Aug. 31; Gaz. vol. 217; p. 1406.
- Truck, Single. B. R. Van Klrk. No. 1,148,344; July 27; Gaz. vol. 216; p. 1250.
- Truck, Single-wheel emergency-. U. Butcher. No. 1,154,287; Sept. 21; Gaz. vol. 218; p. 749.
- Truck, Six-wheel. J. C. Whitridge and G. T. Johnson. No. 1,153,741; Sept. 14; Gaz. vol. 218; p. 526.
- Truck, Six-wheel car-. B. W. Kadel. No. 1,151,471; Aug. 24; Gaz. vol. 217; p. 1270.
- Truck, Starch-drying. M. P. Reynolds. No. 1,139,072; May 11; Gaz. vol. 214; p. 514.
- Truck-steering gear, Hook-and-ladder-. J. W. Rafferty. No. 1,126,863; Feb. 2; Gaz. vol. 211; p. 71.
- Truck, Swing-. J. A. Lamont. No. 1,151,694; Aug. 31; Gaz. vol. 217; p. 1395.
- Truck, Table-. S. C. Dodson. No. 1,149,995; Aug. 10; Gaz. vol. 217; p. 644.
- Truck take-up, Drying-kiln-. A. H. Irving and D. R. Tanner. No. 1,154,315; Sept. 21; Gaz. vol. 218; p. 758.
- Truck, Tongue-. E. Chautard. No. 1,129,332; Feb. 23; Gaz. vol. 211; p. 1058.
- Truck, Traction-. O. C. Houghton. No. 1,142,169; June 8; Gaz. vol. 215; p. 417.
- Truck-transferring mechanism. D. R. Tanner. No. 1,153,274; Sept. 14; Gaz. vol. 218; p. 359.
- Truck, Warehouse-. W. M. Boensch and T. B. Weaver. No. 1,126,368; Jan. 26; Gaz. vol. 210; p. 1234.
- Truck, Warehouse-. T. V. Buckwalter. No. 1,155,336; Oct. 5; Gaz. vol. 219; p. 4.
- Trucks, Antifriction mechanism for car-. J. E. Cooper. No. 1,140,300; May 18; Gaz. vol. 214; p. 979.

Alphabetical list of inventions—Continued.

- Trucks, Brake arrangement for six-wheel car. B. W. Kadel. No. 1,156,483; Oct. 12; Gaz. vol. 219; p. 429.
- Trucks, Brake arrangement for six-wheel car. J. A. Pileher. No. 1,156,490; Oct. 12; Gaz. vol. 219; p. 431.
- Trucks, Brake-rigging attachment to. T. L. Burton. No. 1,148,285; July 27; Gaz. vol. 216; p. 1228.
- Trucks, Combined load indicator and alarm for motor. F. J. Troll. No. 1,147,127; July 20; Gaz. vol. 216; p. 792.
- Trucks, Combined load indicator and alarm for motor. F. J. Troll. No. 1,147,128; July 20; Gaz. vol. 216; p. 793.
- Trucks, Dynamo suspension on car. P. Kennedy. No. 1,159,046; Nov. 2; Gaz. vol. 220; p. 219.
- Trucks, Journal-box for. E. E. Whittenburg. No. 1,141,029; May 25; Gaz. vol. 214; p. 1269.
- Trucks, Lateral-motion bearing for railway. W. E. Amberg. No. 1,144,520; June 29; Gaz. vol. 215; p. 1328.
- Trucks or freight-cars by tilting them. Device for unloading. H. Culmeyer. No. 1,135,669; Apr. 13; Gaz. vol. 213; p. 606.
- Trucks, Side bearing and supporting-arch for car. E. W. Webb. No. 1,149,234; Aug. 10; Gaz. vol. 217; p. 368.
- Trucks, Side bearing for six-wheeled passenger-car. J. F. O'Connor. No. 1,133,573; Mar. 30; Gaz. vol. 212; p. 1477.
- Trucks, Switch-box for electric. W. C. Carr. No. 1,139,954; May 18; Gaz. vol. 214; p. 858.
- Truing-machine. J. Saunders. No. 1,154,343; Sept. 21; Gaz. vol. 218; p. 769.
- Trumpet-action. R. Orsi. No. 1,138,403; May 4; Gaz. vol. 214; p. 241.
- Trumpets, &c. Tuning-slide and stop for. W. E. Higgins. No. 1,141,960; June 8; Gaz. vol. 215; p. 342.
- Trunk. J. H. Bartlett, Jr. No. 1,147,918; July 27; Gaz. vol. 216; p. 1097.
- Trunk. J. H. Bartlett, Jr. No. 1,147,919; July 27; Gaz. vol. 216; p. 1097.
- Trunk. A. Breehl. No. 1,165,063; Dec. 21; Gaz. vol. 221; p. 899.
- Trunk. M. Cherry, Jr. No. 1,137,257; Apr. 27; Gaz. vol. 213; p. 1247.
- Trunk. W. R. Roberts. No. 1,139,726; May 18; Gaz. vol. 214; p. 779.
- Trunk. G. H. Wheary. No. 1,166,418; Dec. 28; Gaz. vol. 221; p. 1418.
- Trunk and bed. Combined. F. A. Marlowe. No. 1,140,991; May 25; Gaz. vol. 214; p. 1258.
- Trunk and cabinet. Combined folding. M. Malesich. No. 1,162,705; Nov. 30; Gaz. vol. 220; p. 1684.
- Trunk and folding bed. Combined. L. Roswall. No. 1,148,802; Aug. 3; Gaz. vol. 217; p. 115.
- Trunk and seat. Combined. H. McLeod. No. 1,124,769; Jan. 12; Gaz. vol. 210; p. 595.
- Trunk and wardrobe. Combined. A. Jozsy. No. 1,126,479; Jan. 26; Gaz. vol. 210; p. 1273.
- Trunk. Automobile. L. B. Taylor. No. 1,135,861; Apr. 13; Gaz. vol. 213; p. 673.
- Trunk-bed. E. Coady. No. 1,159,474; Nov. 9; Gaz. vol. 220; p. 402.
- Trunk-binder. C. H. Pingree. No. 1,158,841; Nov. 2; Gaz. vol. 220; p. 152.
- Trunk-collar construction. G. H. Wheary. No. 1,162,715; Nov. 30; Gaz. vol. 220; p. 1684.
- Trunk. Convertible. G. H. Wheary. No. 1,125,421; Jan. 19; Gaz. vol. 210; p. 864.
- Trunk. Convertible. G. H. Wheary. No. 1,139,317; May 11; Gaz. vol. 214; p. 596.
- Trunk-edge protector. H. Myers. No. 1,134,219; Apr. 6; Gaz. vol. 213; p. 50.
- Trunk-fitting. G. H. Wheary. No. 1,127,705; Feb. 9; Gaz. vol. 211; p. 403.
- Trunk-handle. J. F. Crigler. No. 1,149,634; Aug. 10; Gaz. vol. 217; p. 515.
- Trunk-lid lifter and fastener. B. Weber. No. 1,145,638; July 6; Gaz. vol. 216; p. 231.
- Trunk-locking means. G. H. Wheary. No. 1,158,412; Oct. 26; Gaz. vol. 219; p. 1199.
- Trunk-locking means. Automatic. G. H. Wheary. No. 1,134,175; Apr. 6; Gaz. vol. 213; p. 33.
- Trunk or case stay. W. B. Gould. No. 1,131,366; Mar. 9; Gaz. vol. 212; p. 562.
- Trunk or receptacle. M. E. B. Williams. No. 1,143,474; June 15; Gaz. vol. 215; p. 914.
- Trunk-securing means. F. W. Meyer. No. 1,151,370; Aug. 24; Gaz. vol. 217; p. 1236.
- Trunk-tray construction. G. H. Wheary. No. 1,162,716; Nov. 30; Gaz. vol. 220; p. 1685.
- Trunk, Wardrobe. M. Belber. No. 1,135,428; Apr. 13; Gaz. vol. 213; p. 520.
- Trunk, Wardrobe. S. H. Lesnkowski. No. 1,129,211; Feb. 23; Gaz. vol. 211; p. 1016.
- Trunk, Wardrobe. H. W. Rountree. No. 1,135,847; Apr. 13; Gaz. vol. 213; p. 668.
- Trunk, Wardrobe. W. V. Schnur. No. 1,162,258; Nov. 30; Gaz. vol. 220; p. 1532.
- Trunk, Wardrobe. H. Seward. No. 1,135,404; Apr. 13; Gaz. vol. 213; p. 510.
- Trunk, Wardrobe. G. H. Wheary. No. 1,157,652; Oct. 19; Gaz. vol. 219; p. 866.
- Trunk, Wardrobe. G. H. Wheary. No. 1,158,411; Oct. 26; Gaz. vol. 219; p. 1198.
- Trunks, Clothes-retainer bar for. G. H. Wheary. No. 1,161,174; Nov. 23; Gaz. vol. 220; p. 1105.
- Trunking system, Automatic. O. V. Olson. No. 1,160,951; Nov. 16; Gaz. vol. 220; p. 981.
- Truss. J. R. Dail. No. 1,147,379; July 20; Gaz. vol. 216; p. 882.
- Truss. W. V. Gage. No. 1,125,087; Jan. 19; Gaz. vol. 210; p. 742.
- Truss. W. Gross and E. Z. Wellman. No. 1,139,514; May 18; Gaz. vol. 214; p. 704.
- Truss. B. M. Heflin. No. 1,123,873; Jan. 5; Gaz. vol. 210; p. 230.
- Truss. B. H. and F. C. Hickok. No. 1,160,408; Nov. 16; Gaz. vol. 220; p. 787.
- Truss. W. H. Horn, Jr. No. 1,141,799; June 1; Gaz. vol. 215; p. 250.
- Truss. T. A. Macdonald. No. 1,140,754; May 25; Gaz. vol. 214; p. 1173.
- Truss. J. M. McClure. No. 1,141,569; June 1; Gaz. vol. 215; p. 172.
- Truss. W. J. Miller. No. 1,133,815; Mar. 30; Gaz. vol. 212; p. 1565.
- Truss. R. Morton. No. 1,145,608; July 6; Gaz. vol. 216; p. 220.
- Truss. H. D. O'Brien. No. 1,129,501; Feb. 23; Gaz. vol. 211; p. 1118.
- Truss. W. D. Palmer. No. 1,124,326; Jan. 12; Gaz. vol. 210; p. 435.
- Truss. F. K. Smith. No. 1,131,633; Mar. 9; Gaz. vol. 212; p. 656.
- Truss. G. A. Starkweather. No. 1,127,304; Feb. 2; Gaz. vol. 211; p. 224.
- Truss. A. F. Swan. No. 1,149,868; Aug. 10; Gaz. vol. 217; p. 597.
- Truss. T. Welch. No. 1,157,353; Oct. 19; Gaz. vol. 219; p. 764.
- Truss. C. G. Woods. No. 1,161,103; Nov. 23; Gaz. vol. 220; p. 1079.
- Truss and truss-frame. J. M. Grenzfelder. No. 1,160,402; Nov. 16; Gaz. vol. 220; p. 785.
- Truss-coupling. R. O. King. No. 1,165,419; Dec. 28; Gaz. vol. 221; p. 1063.
- Truss-eveener. F. J. Cudney. No. 1,137,586; Apr. 27; Gaz. vol. 213; p. 1362.
- Truss, Hernial. H. Benham. No. 1,160,565; Nov. 16; Gaz. vol. 220; p. 843.
- Truss, Hernial. G. A. McMillen. No. 1,158,383; Oct. 26; Gaz. vol. 219; p. 1188.
- Truss-pad. F. J. Stuart. No. 1,142,466; June 8; Gaz. vol. 215; p. 523.
- Truss pad, Hernial. R. P. McCollum. No. 1,158,139; Oct. 26; Gaz. vol. 219; p. 1102.
- Truss, Therapeutic. E. F. Henderson. No. 1,133,958; Mar. 30; Gaz. vol. 212; p. 1612.
- Trusses, girders, and the like. Construction of ferroconcrete. R. Wuczkowski. No. 1,153,411; Sept. 14; Gaz. vol. 218; p. 410.
- Tub. See—
- Bath-tub.
- Tub attachment. E. W. Simons, Jr. No. 1,132,491; Mar. 16; Gaz. vol. 212; p. 1001.
- Tub-drip. S. S. Amdursky. No. 1,162,124; Nov. 30; Gaz. vol. 220; p. 1486.
- Tub-seat. G. W. Turner. No. 1,139,824; May 18; Gaz. vol. 214; p. 813.
- Tub-stand and wringer-support, Foldable. H. D. Fortner. No. 1,134,836; Apr. 6; Gaz. vol. 213; p. 271.
- Tub stand, Laundry. J. O'Brien and L. A. Hewitt. No. 1,148,921; Aug. 3; Gaz. vol. 217; p. 155.
- Tube. See—
- Boiler-tube. Mill-tube.
- Buffer-tube. Paper tube.
- Collapsible tube. Pneumatic tube.
- Combustion-tube. Pneumatic-despatch tube.
- Containing-tube. Ray-tube.
- Dental saliva-tube. Smoking-tube.
- Discharge-tube. Tire inner tube.
- Insulating-tube. Torpedo-expulsion tube.
- Interlocking spring-tube. Torpedo-launching tube.
- Laminated tube. Woven tube.
- Last-tube. Wrapping-tube.
- Lined tube. X-ray tube.
- Mailing-tube.
- Tube and pipe expander. H. E. Pollard. No. 1,138,311; May 4; Gaz. vol. 214; p. 206.
- Tube attachment, Collapsible. T. C. Booth. No. 1,148,284; July 27; Gaz. vol. 216; p. 1227.
- Tube-bending machine. L. H. Brinkman. No. 1,135,875; Apr. 13; Gaz. vol. 213; p. 677.
- Tube-bending machine. R. F. Redding. No. 1,133,401; Mar. 30; Gaz. vol. 212; p. 1416.
- Tube-blower. E. J. McCarty. No. 1,155,750; Oct. 5; Gaz. vol. 219; p. 147.
- Tube-cleaner. A. F. Froussard. No. 1,161,122; Nov. 23; Gaz. vol. 220; p. 1086.
- Tube-cleaner. W. D. Fuller. No. 1,147,230; July 20; Gaz. vol. 216; p. 829.
- Tube-cleaner. E. E. Hauer. No. 1,163,661; Dec. 14; Gaz. vol. 221; p. 368.
- Tube-cleaner. F. W. Linaker. No. 1,152,423; Sept. 7; Gaz. vol. 218; p. 15.

Alphabetical list of inventions—Continued.

- Tube-cleaner. D. S. Stover. No. 1,145,626; July 6; Gaz. vol. 216; p. 227.
- Tube-cleaner. H. E. Stratton. No. 1,141,433; June 1; Gaz. vol. 215; p. 125.
- Tube-cleaner guide and nozzle. C. F. Overly. No. 1,124,508; Jan. 12; Gaz. vol. 210; p. 500.
- Tube-cleaning apparatus. E. E. Hauer. No. 1,147,237; July 20; Gaz. vol. 216; p. 832.
- Tube-coiling apparatus. W. Diebel. No. 1,124,874; Jan. 12; Gaz. vol. 210; p. 632.
- Tube combined with heating, cooling, and evaporating apparatus or receptacles. T. F. Sanborn. No. 1,151,292; Aug. 24; Gaz. vol. 217; p. 1212.
- Tube connection, Flexible. E. James. No. 1,148,090; July 27; Gaz. vol. 216; p. 1159.
- Tube-converting machine. T. W. Wright. No. 1,133,903; Mar. 30; Gaz. vol. 212; p. 1595.
- Tube-coupling lock. S. G. Forst. No. 1,145,885; July 13; Gaz. vol. 216; p. 338.
- Tube-cutter. O. Wiedeke. No. 1,162,893; Dec. 7; Gaz. vol. 221; p. 55.
- Tube-expander. O. Wiedeke. No. 1,124,568; Jan. 12; Gaz. vol. 210; p. 522.
- Tube-expander. O. Wiedeke. No. 1,153,662; Sept. 14; Gaz. vol. 218; p. 497.
- Tube forming and coating machine. M. R. Woodward. No. 1,140,430; May 25; Gaz. vol. 214; p. 1061.
- Tube-forming machine. G. W. Blackburn. No. 1,126,691; Feb. 2; Gaz. vol. 211; p. 8.
- Tube-forming machine. E. E. Johnson. No. 1,141,712; June 1; Gaz. vol. 215; p. 222.
- Tube-forming machine. L. E. Stucker. No. 1,130,646; Mar. 2; Gaz. vol. 212; p. 231.
- Tube heater, Ignition-. E. C. Kincade. No. 1,149,921; Aug. 10; Gaz. vol. 217; p. 617.
- Tube-lining apparatus. W. Burlingham. No. 1,166,040; Dec. 28; Gaz. vol. 221; p. 1278.
- Tube-making apparatus and process. W. P. Cohoe. No. 1,163,740; Dec. 14; Gaz. vol. 221; p. 398.
- Tube-making machine. E. M. Hawkins. No. 1,157,220; Oct. 19; Gaz. vol. 219; p. 718.
- Tube-making machines, Stop mechanism for. R. M. Clark. G. Ambrose, and C. J. Clark. No. 1,165,072; Dec. 21; Gaz. vol. 221; p. 902.
- Tube-making press. O. Schlenstedt. No. 1,150,394; Aug. 17; Gaz. vol. 217; p. 846.
- Tube-mill. D. H. Atkins. No. 1,125,921; Jan. 26; Gaz. vol. 210; p. 1071.
- Tube-mill. W. B. Easton. No. 1,139,651; May 18; Gaz. vol. 214; p. 752.
- Tube-mill. W. Fennell. No. 1,154,981; Sept. 28; Gaz. vol. 218; p. 1013.
- Tube-mill. W. Fennell. No. 1,154,982; Sept. 28; Gaz. vol. 218; p. 1014.
- Tube-mill. G. C. Howard. No. 1,146,760; July 13; Gaz. vol. 216; p. 644.
- Tube-opening device, Fabric-. B. A. Parkes. No. 1,141,883; June 1; Gaz. vol. 215; p. 277.
- Tube or flue cutter. A. H. Kelch. No. 1,158,504; Nov. 2; Gaz. vol. 220; p. 33.
- Tube-rolling mill. F. E. Simpkins. No. 1,141,427; June 1; Gaz. vol. 215; p. 123.
- Tube-scraper. R. M. Packingham. No. 1,165,441; Dec. 28; Gaz. vol. 221; p. 1071.
- Tube-testing and tire-carrying device, Pneumatic. J. Closz. No. 1,148,287; July 27; Gaz. vol. 216; p. 1228.
- Tube-vulcanizer. F. W. Kremer. No. 1,158,509; Nov. 2; Gaz. vol. 220; p. 35.
- Tube-winding machine, Spiral-. J. R. Selfridge. No. 1,164,878; Dec. 21; Gaz. vol. 221; p. 835.
- Tubes and tires, Machine for making. C. A. Canda. No. 1,159,895; Nov. 9; Gaz. vol. 220; p. 555.
- Tubes, Apparatus for rolling seamless. F. E. Simpkins. No. 1,141,425; June 1; Gaz. vol. 215; p. 122.
- Tubes, Attachment for collapsible. W. B. Heideloff. No. 1,143,390; June 15; Gaz. vol. 215; p. 886.
- Tubes, Device for sinking foundation-. H. Sletten and A. N. Liddell. No. 1,154,137; Sept. 21; Gaz. vol. 218; p. 697.
- Tubes from molten metal, Press for the manufacture of. A. Schnakenberg. No. 1,125,185; Jan. 19; Gaz. vol. 210; p. 778.
- Tubes interiorly with liquid coating agents, Treating. E. T. Greenfield. No. 1,146,791; July 20; Gaz. vol. 216; p. 675.
- Tubes, Lining. W. Burlingham. No. 1,166,038; Dec. 28; Gaz. vol. 221; p. 1278.
- Tubes, Machine for forming seamed. O. J. Groehn. No. 1,137,966; May 4; Gaz. vol. 214; p. 86.
- Tubes, Making celluloid. J. N. Whitehouse. No. 1,125,893; Jan. 19; Gaz. vol. 210; p. 1028.
- Tubes, Manufacture of seamless. S. E. Diescher. No. 1,139,957; May 18; Gaz. vol. 214; p. 859.
- Tubes, Manufacture of seamless. F. E. Simpkins. No. 1,141,424; June 1; Gaz. vol. 215; p. 122.
- Tubes, Manufacturing. A. B. Reynders. No. 1,160,100; Nov. 9; Gaz. vol. 220; p. 626.
- Tubes, Percussive tool for scaling. H. S. B. Brindley. No. 1,158,115; Oct. 26; Gaz. vol. 219; p. 1094.
- Tubes, Protective wrapper for inner. J. Spesha. No. 1,123,609; Jan. 5; Gaz. vol. 210; p. 141.
- Tubing and the like into lengths, Mechanism for cutting. M. B. Lloyd. No. 1,161,705; Nov. 23; Gaz. vol. 220; p. 1292.
- Tubing and making the same, Electrically-welded. K. Peiseler. No. 1,154,933; Sept. 28; Gaz. vol. 218; p. 998.
- Tubing, Apparatus for the manufacture of. P. Patterson. No. 1,155,677; Oct. 5; Gaz. vol. 219; p. 122.
- Tubing-bleeder. G. C. Bushong. No. 1,150,661; Aug. 17; Gaz. vol. 217; p. 938.
- Tubing coupling, Flexible-. A. Sundh. No. 1,139,821; May 18; Gaz. vol. 214; p. 812.
- Tubing-die. J. L. Swartz. No. 1,133,892; Mar. 30; Gaz. vol. 212; p. 1592.
- Tubing, Flexible. C. W. Svenson. No. 1,140,417; May 25; Gaz. vol. 214; p. 1056.
- Tubing, Flexible. A. W. Wessoleck. No. 1,140,425; May 25; Gaz. vol. 214; p. 1059.
- Tubing-machine. A. Bleecker. No. 1,133,610; Mar. 30; Gaz. vol. 212; p. 1491.
- Tubing-machine. V. Royle. No. 1,152,978; Sept. 7; Gaz. vol. 218; p. 220.
- Tubing, Machine for cutting and folding cloth. C. B. Greeson. No. 1,154,581; Sept. 21; Gaz. vol. 218; p. 850.
- Tubing, Machine for forming and welding. M. B. Lloyd. No. 1,124,759; Jan. 12; Gaz. vol. 210; p. 591.
- Tubing-making machine. C. J. Johnson. No. 1,129,398; Feb. 23; Gaz. vol. 211; p. 1082.
- Tubing, Manufacturing. M. B. Lloyd. No. 1,141,066; May 25; Gaz. vol. 214; p. 1282.
- Tubing-manufacturing machine. M. B. Lloyd. No. 1,124,757; Jan. 12; Gaz. vol. 210; p. 590.
- Tubing, Reinforced. M. B. Lloyd. No. 1,141,067; May 25; Gaz. vol. 214; p. 1283.
- Tubing-rings, Making. A. M. Stewart. No. 1,152,858; Sept. 7; Gaz. vol. 218; p. 176.
- Tubing, Structural. W. Willis. No. 1,154,955; Sept. 28; Gaz. vol. 218; p. 1005.
- Tubing-support, Automatic. C. J. Johnson. No. 1,126,673; Jan. 26; Gaz. vol. 210; p. 1345.
- Tubing, Transfer mechanism for lap-weld. D. E. E. Woodside. No. 1,159,561; Nov. 9; Gaz. vol. 220; p. 434.
- Tubular articles, Making clad. W. M. Page. No. 1,125,159; Jan. 19; Gaz. vol. 210; p. 768.
- Tubular bodies, Cleaning. H. Eberhardt. No. 1,150,582; Aug. 17; Gaz. vol. 217; p. 912.
- Tubular cord. J. D. Tew. No. 1,144,079; June 22; Gaz. vol. 215; p. 1146.
- Tubular fabric and knitting the same, Reinforced. J. W. Mettler and W. E. Smith. No. 1,141,971; June 8; Gaz. vol. 215; p. 346.
- Tubular fabric, Automatic machine for making. L. A. Subers. No. 1,145,446; July 6; Gaz. vol. 216; p. 165.
- Tubular fabric, Machine for constructing a laminated cohesive interwound. L. A. Subers. No. 1,136,291; Apr. 20; Gaz. vol. 213; p. 864.
- Tubular structures, Distention device for. P. Powell. No. 1,140,527; May 25; Gaz. vol. 214; p. 1098.
- Tucked fabric, Composite. C. C. Morgan. No. 1,128,618; Feb. 16; Gaz. vol. 211; p. 773.
- Tucking-machine. C. C. Morgan and G. Wright. No. 1,128,619; Feb. 16; Gaz. vol. 211; p. 773.
- Tug-loop. W. B. North. No. 1,138,776; May 11; Gaz. vol. 214; p. 403.
- Tumbler, Lower. C. B. King and J. W. Fellmeth. No. 1,125,119; Jan. 19; Gaz. vol. 210; p. 753.
- Tumbler, Mixing-. H. A. Seifke. No. 1,134,354; Apr. 6; Gaz. vol. 213; p. 99.
- Tumbler-washer. O. Anderson and C. Nelson. No. 1,124,239; Jan. 5; Gaz. vol. 210; p. 356.
- Tumbler washing and rinsing machine. G. H. Hutaff. No. 1,153,228; Sept. 14; Gaz. vol. 218; p. 343.
- Tumbler-washing apparatus. M. Ishida. No. 1,153,308; Sept. 14; Gaz. vol. 218; p. 370.
- Tumbling-barrel. J. Henderson. No. 1,143,268; June 15; Gaz. vol. 215; p. 841.
- Tumbling-barrel. J. Henderson. No. 1,155,150; Sept. 28; Gaz. vol. 218; p. 1074.
- Tumbling-barrel. A. C. Johnson. No. 1,155,579; Oct. 5; Gaz. vol. 219; p. 88.
- Tungsten, Contact bodies of. A. J. Liebmann and W. A. Megrath. No. 1,155,427; Oct. 5; Gaz. vol. 219; p. 36.
- Tungsten, Making contact bodies of. A. J. Liebmann and W. A. Megrath. No. 1,155,426; Oct. 5; Gaz. vol. 219; p. 36.
- Tungsten filaments, Producing. E. A. Krüger. No. 1,154,701; Sept. 28; Gaz. vol. 218; p. 920.
- Tungsten-powder, Producing. R. Rafu. No. 1,130,197; Mar. 2; Gaz. vol. 212; p. 124.
- Tuning-fork and resonator. W. Berry. No. 1,166,317; Dec. 28; Gaz. vol. 221; p. 1382.
- Tuning-hammer. H. E. Hale. No. 1,160,107; Nov. 9; Gaz. vol. 220; p. 629.
- Tuning-peg for musical instruments. J. Bohmann. No. 1,135,347; Apr. 13; Gaz. vol. 213; p. 491.
- Tuning-peg of violins or like instruments. R. W. Oberhoffer. No. 1,135,314; Apr. 13; Gaz. vol. 213; p. 480.
- Tuning sound-producing bars or tubes, Means for. F. T. Young. No. 1,140,932; May 25; Gaz. vol. 214; p. 1239.
- Tunnel construction. D. D. McBean. No. 1,151,958; Aug. 31; Gaz. vol. 217; p. 1486.

Alphabetical list of inventions—Continued.

- Tunnel construction. D. D. McBean. No. 1,163,096; Dec. 7; Gaz. vol. 221; p. 125.
- Tunnel-work, Method of and apparatus for. E. G. Williams and E. H. Brown. No. 1,156,830; Oct. 12; Gaz. vol. 219; p. 549.
- Tunnels and for shafts, Lining for. G. H. Dunlop. No. 1,125,013; Jan. 12; Gaz. vol. 210; p. 681.
- Tunnels, Building waterproof. F. X. Hallinger. No. 1,138,603; May 4; Gaz. vol. 214; p. 307.
- Tunneling-machine. W. E. Dean. No. 1,156,277; Oct. 12; Gaz. vol. 219; p. 354.
- Tunneling-machine. W. W. Giggey. No. 1,140,673; May 25; Gaz. vol. 214; p. 1146.
- Tunneling-machine. S. Hoar. No. 1,162,607; Nov. 30; Gaz. vol. 220; p. 1649.
- Tunneling-machine. D. A. Robinson. No. 1,146,281; July 13; Gaz. vol. 216; p. 477.
- Tunneling-machine. D. A. Robinson. No. 1,163,859; Dec. 14; Gaz. vol. 221; p. 440.
- Turbine. E. Anderson. No. 1,134,985; Apr. 13; Gaz. vol. 213; p. 367.
- Turbine. E. Anderson. No. 1,138,173; May 4; Gaz. vol. 214; p. 159.
- Turbine. G. W. Crawford. No. 1,138,630; May 11; Gaz. vol. 214; p. 355.
- Turbine. C. W. Dake. No. 1,137,704; Apr. 27; Gaz. vol. 213; p. 1399.
- Turbine. W. Eccles. No. 1,142,506; June 8; Gaz. vol. 215; p. 537.
- Turbine. L. S. Flatau. No. 1,159,754; Nov. 9; Gaz. vol. 220; p. 504.
- Turbine. R. H. Goldsborough. No. 1,151,175; Aug. 24; Gaz. vol. 217; p. 1172.
- Turbine. L. W. Grayson. No. 1,132,336; Mar. 16; Gaz. vol. 212; p. 946.
- Turbine. F. Hodgkinson. No. 1,158,498; Nov. 2; Gaz. vol. 220; p. 1092.
- Turbine. M. W. Johnson, Jr. No. 1,142,882; June 15; Gaz. vol. 215; p. 705.
- Turbine. T. D. Lazarides. No. 1,161,140; Nov. 23; Gaz. vol. 220; p. 1092.
- Turbine. P. J. McNeerney. No. 1,150,048; Aug. 17; Gaz. vol. 217; p. 723.
- Turbine. J. Nash. No. 1,139,562; May 18; Gaz. vol. 214; p. 720.
- Turbine. A. Rector. No. 1,127,678; Feb. 9; Gaz. vol. 211; p. 393.
- Turbine. E. Schlumpf. No. 1,144,154; June 22; Gaz. vol. 215; p. 1175.
- Turbine. O. W. Stone. No. 1,158,082; Oct. 26; Gaz. vol. 219; p. 1082.
- Turbine. D. Westfall. No. 1,136,745; Apr. 20; Gaz. vol. 213; p. 1026.
- Turbine. Axial-flow steam-. C. B. Rearick. No. 1,152,218; Aug. 31; Gaz. vol. 217; p. 1576.
- Turbine-blades, Marking, punching, and assembling shroud-bands for. J. B. Weaver. No. 1,158,755; Nov. 2; Gaz. vol. 220; p. 121.
- Turbine-blading. H. T. Herr. No. 1,149,366; Aug. 10; Gaz. vol. 217; p. 417.
- Turbine-blading. W. J. A. London, G. H. Plaine, and R. C. Allen. No. 1,149,658; Aug. 10; Gaz. vol. 217; p. 524.
- Turbine bucket-wheel. R. Hillner. No. 1,156,529; Oct. 12; Gaz. vol. 219; p. 445.
- Turbine, Combined extraction and mixed-pressure. E. D. Dickinson. No. 1,126,414; Jan. 26; Gaz. vol. 210; p. 1249.
- Turbine, Combustion-. R. Kutschinski. No. 1,130,090; Mar. 2; Gaz. vol. 212; p. 86.
- Turbine-driven set, Geared. R. H. Rice. No. 1,155,163; Sept. 28; Gaz. vol. 218; p. 1078.
- Turbine, Elastic-fluid. W. W. Dake. No. 1,139,465; May 11; Gaz. vol. 214; p. 651.
- Turbine, Elastic-fluid. G. Forner. No. 1,160,704; Nov. 16; Gaz. vol. 220; p. 896.
- Turbine, Elastic-fluid. F. P. Jackman. No. 1,145,144; July 6; Gaz. vol. 216; p. 59.
- Turbine, Elastic-fluid. S. A. Moss. No. 1,130,187; Mar. 2; Gaz. vol. 212; p. 121.
- Turbine, Elastic-fluid. W. Pape. No. 1,156,547; Oct. 12; Gaz. vol. 219; p. 450.
- Turbine, Elastic-fluid. E. C. Perry, Jr. No. 1,156,549; Oct. 12; Gaz. vol. 219; p. 451.
- Turbine, Elastic-fluid. C. B. Rearick. No. 1,156,371; Oct. 12; Gaz. vol. 219; p. 388.
- Turbine, Elastic-fluid. R. H. Rice. No. 1,156,627; Oct. 12; Gaz. vol. 219; p. 479.
- Turbine-engine, Compound. T. W. Green. No. 1,163,336; Dec. 7; Gaz. vol. 221; p. 211.
- Turbine-engine, Convertible. E. F. Abernethy. No. 1,148,813; Aug. 3; Gaz. vol. 217; p. 119.
- Turbine-engine, Gas. E. M. and J. F. Maxwell. No. 1,139,696; May 18; Gaz. vol. 214; p. 768.
- Turbine-engine, Gas. J. A. Morin. No. 1,131,072; Mar. 9; Gaz. vol. 212; p. 461.
- Turbine-engine, Reversible. J. Allen. No. 1,127,386; Feb. 9; Gaz. vol. 211; p. 292.
- Turbine, Explosive-. G. Erlinger. No. 1,166,117; Dec. 28; Gaz. vol. 221; p. 1307.
- Turbine, Explosive-. A. Herz. No. 1,164,091; Dec. 14; Gaz. vol. 221; p. 520.
- Turbine, Fluid-pressure. F. Hodgkinson. No. 1,158,497; Nov. 2; Gaz. vol. 220; p. 30.
- Turbine, Fluid-pressure. C. J. Mellin. No. 1,154,648; Sept. 28; Gaz. vol. 218; p. 902.
- Turbine for tube-cleaners. W. Müller. No. 1,126,553; Jan. 26; Gaz. vol. 210; p. 1302.
- Turbine, Gas-. L. J. B. Blake. No. 1,148,653; Aug. 3; Gaz. vol. 217; p. 61.
- Turbine, Gas-. J. Dianovsky. No. 1,149,252; Aug. 10; Gaz. vol. 217; p. 374.
- Turbine, Gas-. D. L. Taylor. No. 1,152,862; Sept. 7; Gaz. vol. 218; p. 178.
- Turbine-governing mechanism. S. A. Moss. No. 1,154,533; Sept. 21; Gaz. vol. 218; p. 832.
- Turbine-governing mechanism, Mixed-pressure-. J. G. Callan. No. 1,159,174; Nov. 2; Gaz. vol. 220; p. 265.
- Turbine, Hot-water. S. A. Reeve. No. 1,123,798; Jan. 5; Gaz. vol. 210; p. 205.
- Turbine, Impulse-. H. F. Schmidt. No. 1,148,994; Aug. 3; Gaz. vol. 217; p. 180.
- Turbine, Internal-combustion. C. E. F. Ahlm and C. E. Cochran. No. 1,135,648; Apr. 13; Gaz. vol. 213; p. 598.
- Turbine, Internal-combustion. B. Bischof. No. 1,129,544; Feb. 23; Gaz. vol. 211; p. 1133.
- Turbine, Internal-combustion. G. T. Davis. No. 1,160,145; Nov. 16; Gaz. vol. 220; p. 696.
- Turbine, Internal-combustion. P. H. Holtz. No. 1,146,707; July 13; Gaz. vol. 216; p. 626.
- Turbine, Internal-combustion gas-. L. Paturel and P. Lapertot. No. 1,133,058; Mar. 23; Gaz. vol. 212; p. 1259.
- Turbine, Low-pressure. W. B. Flanders. No. 1,158,999; Nov. 2; Gaz. vol. 220; p. 204.
- Turbine, Marine. K. Alquist. No. 1,153,475; Sept. 14; Gaz. vol. 218; p. 431.
- Turbine, Marine. K. Alquist. No. 1,155,029; Sept. 28; Gaz. vol. 218; p. 1030.
- Turbine, Marine. K. Alquist. No. 1,155,030; Sept. 28; Gaz. vol. 218; p. 1030.
- Turbine, Marine. H. T. Herr. No. 1,133,283; Mar. 30; Gaz. vol. 212; p. 1374.
- Turbine, Marine. H. F. Schmidt. No. 1,155,516; Oct. 5; Gaz. vol. 219; p. 68.
- Turbine, Marine. G. W. Westinghouse. No. 1,142,069; June 8; Gaz. vol. 215; p. 382.
- Turbine, Multiple-deck reëntrant. R. N. Ehrhart. No. 1,137,591; Apr. 27; Gaz. vol. 213; p. 1364.
- Turbine, Pressure-. E. Buehle. No. 1,137,948; May 4; Gaz. vol. 214; p. 79.
- Turbine, Radial. B. Ljungström. No. 1,146,183; July 13; Gaz. vol. 216; p. 443.
- Turbine, Reëntrant. R. N. Ehrhart. No. 1,137,590; Apr. 27; Gaz. vol. 213; p. 1364.
- Turbine-rotor. O. D. H. Bentley. No. 1,166,316; Dec. 28; Gaz. vol. 221; p. 1381.
- Turbine-shaft, Lateral fluid-support for. F. Ljungström. No. 1,129,409; Feb. 23; Gaz. vol. 211; p. 1086.
- Turbine-stator blading. A. Jude. No. 1,124,029; Jan. 5; Gaz. vol. 210; p. 282.
- Turbine, Steam-. O. Banner. No. 1,161,436; Nov. 23; Gaz. vol. 220; p. 1200.
- Turbine, Steam-. R. L. Dean. No. 1,162,684; Nov. 30; Gaz. vol. 220; p. 1673.
- Turbine, Steam-. W. Green. No. 1,128,132; Feb. 9; Gaz. vol. 211; p. 556.
- Turbine, Steam-. C. V. Kerr. No. 1,131,386; Mar. 9; Gaz. vol. 212; p. 569.
- Turbine, Steam-. M. Leblanc. No. 1,141,968; June 8; Gaz. vol. 215; p. 345.
- Turbine, Steam-. J. F. Metten. No. 1,141,473; June 1; Gaz. vol. 215; p. 139.
- Turbine, Steam-. S. C. Rockman. No. 1,157,727; Oct. 26; Gaz. vol. 219; p. 958.
- Turbine, Steam-. M. Rotter. No. 1,123,927; Jan. 5; Gaz. vol. 210; p. 248.
- Turbine, Tapped. W. Kieser. No. 1,153,316; Sept. 14; Gaz. vol. 218; p. 374.
- Turbine-wheel. W. J. Francke. No. 1,142,690; June 8; Gaz. vol. 215; p. 598.
- Turbine-wheel. M. E. Thompson. No. 1,129,920; Mar. 2; Gaz. vol. 212; p. 30.
- Turbine-wheel and casing therefor. M. H. Sullivan. No. 1,130,444; Mar. 2; Gaz. vol. 212; p. 210.
- Turbines, Blade construction for elastic-fluid. H. T. Herr. No. 1,165,005; Dec. 21; Gaz. vol. 221; p. 879.
- Turbines, Device for use in casting. F. H. C. Coppus. No. 1,128,854; Feb. 16; Gaz. vol. 211; p. 854.
- Turbines, Draining steam-. P. Wagner. No. 1,165,922; Dec. 28; Gaz. vol. 221; p. 1237.
- Turbines, Exhaust for steam-. C. V. Kerr. No. 1,131,645; Mar. 9; Gaz. vol. 212; p. 661.
- Turbines, Governing mechanism for mixed-pressure. W. Kieser. No. 1,150,682; Aug. 17; Gaz. vol. 217; p. 946.
- Turbines, Making buckets for. C. W. Dake. No. 1,127,740; Feb. 9; Gaz. vol. 211; p. 417.
- Turbines, Oblique-cut guide-channel for. H. Keller. No. 1,151,689; Aug. 31; Gaz. vol. 217; p. 1393.
- Turbines, Regulating device for hydraulic. L. Dufour. No. 1,131,344; Mar. 9; Gaz. vol. 212; p. 554.
- Turbines, Toothed gearing for steam-. B. Ljungström. No. 1,130,748; Mar. 9; Gaz. vol. 212; p. 351.

Alphabetical list of inventions—Continued.

- Turbo-driven-machine frame. R. H. Rice. No. 1,155,162; Sept. 28; Gaz. vol. 218; p. 1078.
- Turn-button. F. J. Stulp. No. 1,158,330; Oct. 26; Gaz. vol. 219; p. 1169.
- Turn-table. B. K. Hall. No. 1,143,538; June 15; Gaz. vol. 215; p. 935.
- Turn-table. J. B. Tinsley. No. 1,136,563; Apr. 20; Gaz. vol. 213; p. 962.
- Turn-table, Collapsible. J. P. Hill. No. 1,161,673; Nov. 23; Gaz. vol. 220; p. 1281.
- Turn-table, Portable. W. L. Ward. No. 1,123,825; Jan. 5; Gaz. vol. 210; p. 214.
- Turning irregular forms, Machine for. F. S. Buck. No. 1,137,117; Apr. 27; Gaz. vol. 213; p. 1196.
- Turning-machine guard. R. L. Shannon. No. 1,156,559; Oct. 12; Gaz. vol. 219; p. 455.
- Turning or boring appliance. O. W. Mueller. No. 1,153,241; Sept. 14; Gaz. vol. 218; p. 347.
- Turning tool, Metal. J. Hartness. No. 1,130,274; Mar. 2; Gaz. vol. 212; p. 150.
- Turning tool, Metal. J. Hartness. No. 1,130,275; Mar. 2; Gaz. vol. 212; p. 151.
- Turnout, Portable. E. C. Morgan. No. 1,163,767; Dec. 14; Gaz. vol. 221; p. 407.
- Turpentine and resin extractor. E. Koch. No. 1,127,452; Feb. 9; Gaz. vol. 211; p. 317.
- Turpentine and resin from resinous wood, Obtaining. J. H. Castona. No. 1,149,027; Aug. 3; Gaz. vol. 217; p. 192.
- Turpentine-cup support. C. L. Krager. No. 1,130,300; Mar. 2; Gaz. vol. 212; p. 159.
- Turpentine-hack. D. W. Adams. No. 1,137,723; Apr. 27; Gaz. vol. 213; p. 1407.
- Turpentine process. J. G. Gardner. No. 1,124,606; Jan. 12; Gaz. vol. 210; p. 536.
- Turpentine-retort. J. G. Gardner. No. 1,124,607; Jan. 12; Gaz. vol. 210; p. 536.
- Turret for metal-working machines. R. S. Brown. No. 1,125,054; Jan. 19; Gaz. vol. 210; p. 731.
- Turret-post. C. M. Conradson. No. 1,143,251; June 15; Gaz. vol. 215; p. 837.
- Turret, Protective. R. B. Everett. No. 1,136,325; Apr. 20; Gaz. vol. 213; p. 876.
- Turret, Tool-holding. E. P. Burrell. No. 1,140,733; May 25; Gaz. vol. 214; p. 1165.
- Turret tool-post. C. M. Conradson. No. 1,143,252; June 15; Gaz. vol. 215; p. 837.
- Tweezers and file, Combined. E. L. Hammond. No. 1,143,761; June 22; Gaz. vol. 215; p. 1035.
- Twin hook. R. De Lan. No. 1,150,581; Aug. 17; Gaz. vol. 217; p. 912.
- Twin-packet machine. R. V. Craggs. No. 1,161,455; Nov. 23; Gaz. vol. 220; p. 1206.
- Twine-curing composition. J. J. Landsberger. No. 1,127,649; Feb. 9; Gaz. vol. 211; p. 382.
- Twine-cutter. G. A. Morrell. No. 1,125,869; Jan. 19; Gaz. vol. 210; p. 1020.
- Twine-cutter. G. A. Morrell. No. 1,165,697; Dec. 28; Gaz. vol. 221; p. 1161.
- Twine-cutter. B. Seaman. No. 1,134,700; Apr. 6; Gaz. vol. 213; p. 225.
- Twine-cutter. P. H. Unsinger. No. 1,162,264; Nov. 30; Gaz. vol. 220; p. 1534.
- Twine cutting and retaining device. F. M. Holmes. No. 1,138,756; May 11; Gaz. vol. 214; p. 401.
- Twine, Forming. J. L. Ware. No. 1,165,819; Dec. 28; Gaz. vol. 221; p. 1202.
- Twine, Grass. O. T. Waite. No. 1,144,163; June 22; Gaz. vol. 215; p. 1178.
- Twine-holder. J. A. Hamelback. No. 1,137,133; Apr. 27; Gaz. vol. 213; p. 1202.
- Twine-holder. A. M. Kelly and B. L. Shaner. No. 1,131,843; Mar. 16; Gaz. vol. 212; p. 767.
- Twine-holder. F. H. Kutnewsky. No. 1,133,157; Mar. 23; Gaz. vol. 212; p. 1294.
- Twine-holder. J. L. Smyth. No. 1,146,601; July 13; Gaz. vol. 216; p. 591.
- Twine machine, Grass. O. T. Waite. No. 1,144,162; June 22; Gaz. vol. 215; p. 1178.
- Twine machine, Grass. O. T. Waite. No. 1,162,530; Nov. 30; Gaz. vol. 220; p. 1625.
- Twine, Making palmetto or palm fiber. G. A. Lowry. No. 1,163,763; Dec. 14; Gaz. vol. 221; p. 406.
- Twine-package. J. P. Tolman. No. 1,135,470; Apr. 13; Gaz. vol. 213; p. 534.
- Twine-tying device. J. F. Young. No. 1,151,231; Aug. 24; Gaz. vol. 217; p. 1192.
- Two-cycle engine. J. T. Dickson. No. 1,128,234; Feb. 9; Gaz. vol. 211; p. 590.
- Two-cycle engine. K. E. Dunbar. No. 1,123,861; Jan. 5; Gaz. vol. 210; p. 227.
- Two-cycle engine. F. W. Schultz and F. B. Lawson. No. 1,148,720; Aug. 3; Gaz. vol. 217; p. 85.
- Two-cycle engine. F. W. Willey and W. Galletly. No. 1,138,919; May 11; Gaz. vol. 214; p. 458.
- Two-cycle engine, Multicylinder. E. R. Fried. No. 1,138,742; May 11; Gaz. vol. 214; p. 396.
- Two-cycle motor. J. D'Harveng. No. 1,159,572; Nov. 9; Gaz. vol. 220; p. 437.
- Two-cylinder engine. H. Kleinbrahm. No. 1,143,973; June 22; Gaz. vol. 215; p. 1109.
- Twyer. J. S. Fraser. No. 1,161,206; Nov. 23; Gaz. vol. 220; p. 1118.
- Twyer. J. F. Pitz. No. 1,134,005; Mar. 30; Gaz. vol. 212; p. 1626.
- Twyer-cap. K. Landgrebe. No. 1,129,993; Mar. 2; Gaz. vol. 212; p. 54.
- Tying device. H. De Haven. No. 1,149,994; Aug. 10; Gaz. vol. 217; p. 643.
- Tying device. H. A. Reynolds. No. 1,139,721; May 18; Gaz. vol. 214; p. 778.
- Tying device, Package and mail. A. M. Grant. No. 1,124,130; Jan. 5; Gaz. vol. 210; p. 317.
- Tympan ball and gage. A. B. Rager. No. 1,162,102; Nov. 30; Gaz. vol. 220; p. 1478.
- Type-adjusting device for printing-machines. C. F. Robbins. No. 1,131,959; Mar. 16; Gaz. vol. 212; p. 807.
- Type-bar action. J. G. Wallace. No. 1,163,574; Dec. 7; Gaz. vol. 221; p. 293.
- Type-bar-machine attachment. J. U. Meistrell. No. 1,157,243; Oct. 19; Gaz. vol. 219; p. 727.
- Type-bar-making machine. W. Ingle and W. Eva. No. 1,135,378; Apr. 13; Gaz. vol. 213; p. 501.
- Type-bar-operating mechanism. J. Alexander. No. 1,150,801; Aug. 17; Gaz. vol. 217; p. 986.
- Type-block for type-writing and like machines. O. Woodward. No. 1,124,571; Jan. 12; Gaz. vol. 210; p. 523.
- Type-carrier and marking-machine. F. A. Putnam and C. F. Robbins. No. 1,131,866; Mar. 16; Gaz. vol. 212; p. 774.
- Type casting and composing machine. F. H. Pierpont. No. 1,149,286; Aug. 10; Gaz. vol. 217; p. 388.
- Type-casting machine. S. A. Bhisey. No. 1,146,124; July 13; Gaz. vol. 216; p. 422.
- Type-casting machine. J. F. Norman. No. 1,165,997; Dec. 28; Gaz. vol. 221; p. 1264.
- Type-casting machine. R. Paton. No. 1,159,705; Nov. 9; Gaz. vol. 220; p. 486.
- Type-casting machine. K. S. Reist and S. B. Batsford. No. 1,135,394; Apr. 13; Gaz. vol. 213; p. 507.
- Type-casting machine. O. G. Schmitt. No. 1,160,772; Nov. 16; Gaz. vol. 220; p. 919.
- Type-casting machine. O. G. Schmitt. No. 1,160,773; Nov. 16; Gaz. vol. 220; p. 919.
- Type-casting machine. J. S. Thompson. No. 1,133,198; Mar. 23; Gaz. vol. 212; p. 1308.
- Type-casting-machine indicator. J. W. Applegate. No. 1,160,359; Nov. 16; Gaz. vol. 220; p. 770.
- Type-casting-machine matrix-bar. G. T. Williams. No. 1,160,351; Nov. 16; Gaz. vol. 220; p. 767.
- Type-casting-machine mold. P. W. Drutt. No. 1,145,756; July 6; Gaz. vol. 216; p. 273.
- Type-casting machines, Distributing mechanism for. P. W. Drutt and W. R. Gilpin. No. 1,162,584; Nov. 30; Gaz. vol. 220; p. 1641.
- Type-casting machines, Line-casting stop device for. S. B. Batsford. No. 1,124,689; Jan. 12; Gaz. vol. 210; p. 566.
- Type-casting machines, Machine for perforating strips for single. G. Amrhein. No. 1,158,767; Nov. 2; Gaz. vol. 220; p. 126.
- Type-casting machines, Pump for. F. H. Pierpont. No. 1,149,285; Aug. 10; Gaz. vol. 217; p. 387.
- Type-casting machines, Type-carrier for. J. S. Bancroft and M. C. Indahl. No. 1,149,174; Aug. 10; Gaz. vol. 217; p. 346.
- Type composing and casting apparatus. P. W. Drutt and W. R. Gilpin. No. 1,161,635; Nov. 23; Gaz. vol. 220; p. 1268.
- Type composing and casting apparatus. H. A. Earle and P. W. Drutt. No. 1,153,049; Sept. 7; Gaz. vol. 218; p. 243.
- Type-delivery machine. K. E. Choate and J. T. Carroll. No. 1,164,595; Dec. 14; Gaz. vol. 221; p. 694.
- Type-filing instrument. G. H. Warner. No. 1,136,499; Apr. 20; Gaz. vol. 213; p. 939.
- Type-holder. A. B. Dick. No. 1,137,386; Apr. 27; Gaz. vol. 213; p. 1295.
- Type-justifying space and making the same, Compressible. W. M. Kelly. No. 1,130,826; Mar. 9; Gaz. vol. 212; p. 377.
- Type-matrices or similar bodies, Machine for the production of. F. H. Pierpont. No. 1,149,538; Aug. 10; Gaz. vol. 217; p. 477.
- Type-mold box. J. B. Walsh. No. 1,157,473; Oct. 19; Gaz. vol. 219; p. 808.
- Type mold, Multiple. W. M. Kelly. No. 1,160,720; Nov. 16; Gaz. vol. 220; p. 901.
- Type or matrix. W. S. Coe. No. 1,151,567; Aug. 31; Gaz. vol. 217; p. 1352.
- Type or matrix. A. W. F. Guest. No. 1,126,196; Jan. 26; Gaz. vol. 210; p. 1174.
- Type or matrix. J. R. Rogers. No. 1,131,424; Mar. 9; Gaz. vol. 212; p. 583.
- Type or matrix. J. R. Rogers. No. 1,151,619; Aug. 31; Gaz. vol. 217; p. 1370.
- Type or matrix. F. F. Wilson. No. 1,129,152; Feb. 23; Gaz. vol. 211; p. 995.
- Type-plate-straightening machine. F. T. Thompson. No. 1,148,131; July 27; Gaz. vol. 216; p. 1175.
- Type, printing-blocks, and the like, Tray for printing. W. B. Brett. No. 1,129,843; Mar. 2; Gaz. vol. 212; p. 4.

Alphabetical list of inventions—Continued.

- Type setting and casting machine. G. T. Williams. No. 1,160,350; Nov. 16; Gaz. vol. 220; p. 767.
- Type setting and distributing machine. A. G. Decker. No. 1,141,946; June 8; Gaz. vol. 215; p. 338.
- Type setting and distributing machine. W. M. Kelly. No. 1,165,104; Dec. 21; Gaz. vol. 221; p. 915.
- Type-setting device. E. H. Frey. No. 1,140,809; May 25; Gaz. vol. 214; p. 1191.
- Type-setting device. A. J. McCauley. No. 1,133,731; Mar. 30; Gaz. vol. 212; p. 1535.
- Type-setting machine. H. Drewell. No. 1,145,359; July 6; Gaz. vol. 216; p. 133.
- Type-setting machine. H. Drewell. No. 1,163,985; Dec. 14; Gaz. vol. 221; p. 482.
- Type-setting machine. D. C. Hughes. No. 1,153,390; Sept. 14; Gaz. vol. 218; p. 401.
- Type-setting machine. E. F. Linke. No. 1,150,134; Aug. 17; Gaz. vol. 217; p. 754.
- Type-setting machine. A. R. Wilson. No. 1,136,192; Apr. 20; Gaz. vol. 213; p. 828.
- Type-stops in type-holders, Tool for forming and de-forming. D. C. Hughes. No. 1,153,391; Sept. 14; Gaz. vol. 218; p. 402.
- Type-writer. G. W. Donning. No. 1,126,420; Jan. 26; Gaz. vol. 210; p. 1252.
- Type-writer. K. Dougan. No. 1,152,494; Sept. 7; Gaz. vol. 218; p. 40.
- Type-writer. K. Dougan. No. 1,152,495; Sept. 7; Gaz. vol. 218; p. 40.
- Type-writer. D. B. Faloon. No. 1,141,533; June 1; Gaz. vol. 215; p. 159.
- Type-writer. A. Ferretto. No. 1,155,651; Oct. 5; Gaz. vol. 219; p. 113.
- Type-writer. E. E. Kennedy. No. 1,143,404; June 15; Gaz. vol. 215; p. 890.
- Type-writer. J. McRaven. No. 1,139,880; May 18; Gaz. vol. 214; p. 833.
- Type-writer. J. McRaven. No. 1,143,771; June 22; Gaz. vol. 215; p. 1039.
- Type-writer. J. Mohr. No. 1,127,487; Feb. 9; Gaz. vol. 211; p. 330.
- Type-writer. A. C. Roebuck. No. 1,149,293; Aug. 10; Gaz. vol. 217; p. 391.
- Type-writer. G. F. Rose. No. 1,138,317; May 4; Gaz. vol. 214; p. 209.
- Type-writer. G. F. Rose. No. 1,138,318; May 4; Gaz. vol. 214; p. 210.
- Type-writer. W. E. Russell. No. 1,141,831; June 1; Gaz. vol. 215; p. 260.
- Type-writer. E. Sargent. No. 1,155,445; Oct. 5; Gaz. vol. 219; p. 42.
- Type-writer. S. A. Thompson. No. 1,138,427; May 4; Gaz. vol. 214; p. 249.
- Type-writer. A. A. West. No. 1,163,725; Dec. 14; Gaz. vol. 221; p. 392.
- Type-writer accent mechanism. T. E. Buschmann. No. 1,154,286; Sept. 21; Gaz. vol. 218; p. 748.
- Type-writer actuator, Automatic. L. R. Roberts. No. 1,147,442; July 20; Gaz. vol. 216; p. 904.
- Type-writer and calculator. Combined. J. F. Mays. No. 1,127,060; Feb. 2; Gaz. vol. 211; p. 139.
- Type-writer and computing-machine. E. H. Guyer. No. 1,137,754; May 4; Gaz. vol. 214; p. 11.
- Type-writer and computing machine. F. F. Main. No. 1,151,492; Aug. 24; Gaz. vol. 217; p. 1279.
- Type-writer apparatus. F. Ritchie. No. 1,123,381; Jan. 5; Gaz. vol. 210; p. 63.
- Type-writer attachment. H. C. Clinton. No. 1,135,769; Apr. 13; Gaz. vol. 213; p. 639.
- Type-writer attachment. H. C. Goddard. No. 1,163,906; Dec. 14; Gaz. vol. 221; p. 455.
- Type-writer attachment. G. W. Palmer. No. 1,139,367; May 11; Gaz. vol. 214; p. 615.
- Type-writer attachment. G. Smedal. No. 1,128,730; Feb. 16; Gaz. vol. 211; p. 810.
- Type-writer attachment. G. Smedal. No. 1,149,792; Aug. 10; Gaz. vol. 217; p. 569.
- Type-writer attachment. G. S. Watts. No. 1,143,871; June 22; Gaz. vol. 215; p. 1073.
- Type-writer back-spacer. W. R. Fox. No. 1,163,134; Dec. 7; Gaz. vol. 221; p. 139.
- Type-writer cabinet. S. T. Whitaker. No. 1,144,882; June 29; Gaz. vol. 215; p. 1454.
- Type-writer calculating attachment. F. J. Tillman. No. 1,154,551; Sept. 21; Gaz. vol. 218; p. 838.
- Type-writer carriage mechanism. J. J. Chapin. No. 1,139,102; May 11; Gaz. vol. 214; p. 525.
- Type-writer carriage-return. A. M. Wing. No. 1,152,684; Sept. 7; Gaz. vol. 218; p. 112.
- Type-writer carriage-return device. O. Brisbois. No. 1,140,333; May 18; Gaz. vol. 214; p. 991.
- Type-writer carriage-return mechanism. J. G. Nattinger. No. 1,140,182; May 18; Gaz. vol. 214; p. 940.
- Type-writer carriages, Propelling device for. J. B. Bowen. No. 1,165,150; Dec. 21; Gaz. vol. 221; p. 932.
- Type-writer centering-scale. C. E. Smith. No. 1,152,923; Sept. 7; Gaz. vol. 218; p. 199.
- Type-writer computing attachment. B. M. Des Jardins. No. 1,163,616; Dec. 7; Gaz. vol. 221; p. 308.
- Type-writer computing attachment. W. Wright. No. 1,160,102; Nov. 9; Gaz. vol. 220; p. 627.
- Type-writer computing attachment. W. Wright. No. 1,162,730; Nov. 30; Gaz. vol. 220; p. 1690.
- Type-writer cover. R. C. Rochelle. No. 1,139,804; May 18; Gaz. vol. 214; p. 806.
- Type-writer desk. A. H. Stringe. No. 1,146,369; July 13; Gaz. vol. 216; p. 507.
- Type-writer, Electric. M. C. Crawley. No. 1,156,061; Oct. 12; Gaz. vol. 219; p. 282.
- Type-writer, Electric. E. Hausberg. No. 1,156,288; Oct. 12; Gaz. vol. 219; p. 357.
- Type-writer escapement mechanism. J. J. Chapin. No. 1,123,244; Jan. 5; Gaz. vol. 210; p. 14.
- Type-writer escapement mechanism. F. S. Rose. (Re-issue.) No. 13,935; June 22; Gaz. vol. 215; p. 1243.
- Type-writer feed-roller. E. J. Pilblad and A. Tomlinson. No. 1,153,567; Sept. 14; Gaz. vol. 218; p. 466.
- Type-writer key-levers, Cap for. R. D. Scott. No. 1,148,721; Aug. 3; Gaz. vol. 217; p. 85.
- Type-writer-key lock. A. F. Nathan, Jr. No. 1,137,417; Apr. 27; Gaz. vol. 213; p. 1306.
- Type-writer line-spacer. H. Etheridge. No. 1,159,912; Nov. 9; Gaz. vol. 220; p. 562.
- Type-writer line-spacing adjustment. Z. G. Sholes. No. 1,165,547; Dec. 28; Gaz. vol. 221; p. 1106.
- Type-writer line-spacing mechanism. A. Schneeloch. No. 1,163,563; Dec. 7; Gaz. vol. 221; p. 289.
- Type-writer-machine tabulating and computing attachment. B. M. Des Jardins. No. 1,165,325; Dec. 21; Gaz. vol. 221; p. 989.
- Type-writer margin-indicator. T. A. Sundal. No. 1,161,422; Nov. 23; Gaz. vol. 220; p. 1195.
- Type-writer operator, Automatic. L. R. Roberts. No. 1,163,954; Dec. 14; Gaz. vol. 221; p. 472.
- Type-writer operators, Machine for perforating master-sheets for. L. R. Roberts. No. 1,160,101; Nov. 9; Gaz. vol. 220; p. 627.
- Type-writer paper-holder. N. H. Anderson. No. 1,164,623; Dec. 21; Gaz. vol. 221; p. 745.
- Type-writer platen. Z. G. Sholes. No. 1,166,390; Dec. 28; Gaz. vol. 221; p. 1408.
- Type-writer platen-operating mechanism. A. Schneeloch. No. 1,163,564; Dec. 7; Gaz. vol. 221; p. 290.
- Type-writer platens, Line-adjuster for. J. M. Fraaz. No. 1,136,223; Apr. 20; Gaz. vol. 213; p. 840.
- Type-writer, Practice. W. P. Cosper. No. 1,163,322; Dec. 7; Gaz. vol. 221; p. 205.
- Type-writer ribbon. G. W. Ramsey. No. 1,130,020; Mar. 2; Gaz. vol. 212; p. 63.
- Type-writer-ribbon mechanism. J. J. Chapin. No. 1,166,111; Dec. 28; Gaz. vol. 221; p. 1304.
- Type-writer-ribbon shift. T. E. Buschmann. No. 1,165,942; Dec. 28; Gaz. vol. 221; p. 1245.
- Type-writer ribbon-shift. F. W. Lulloff. No. 1,151,488; Aug. 24; Gaz. vol. 217; p. 1277.
- Type-writer-ribbon shift. Z. G. Sholes. No. 1,165,546; Dec. 28; Gaz. vol. 221; p. 1106.
- Type-writer ribbons, &c., Machine for testing. S. A. Neidich. No. 1,140,912; May 25; Gaz. vol. 214; p. 1230.
- Type-writer stands, Locking device for swinging. W. C. Weis. No. 1,151,637; Aug. 31; Gaz. vol. 217; p. 1376.
- Type-writer, Stenographic. C. Spiro. No. 1,160,665; Nov. 16; Gaz. vol. 220; p. 880.
- Type-writer support for desks. D. F. Dyke. No. 1,137,261; Apr. 27; Gaz. vol. 213; p. 1249.
- Type-writer with electromagnetic thrust. J. Duiven. No. 1,142,151; June 8; Gaz. vol. 215; p. 411.
- Type-writers, adding-machines, and the like, Attachment for. E. J. Barker. No. 1,140,493; May 25; Gaz. vol. 214; p. 1085.
- Type-writers and the like, System of operating. L. M. Potts. No. 1,135,613; Apr. 13; Gaz. vol. 213; p. 585.
- Type-writers, Automatic centering-scale for. H. Bates and C. E. Smith. No. 1,146,393; July 13; Gaz. vol. 216; p. 516.
- Type-writers, Cushioning and holding support for. E. Sherwood. No. 1,129,526; Feb. 23; Gaz. vol. 211; p. 1127.
- Type-writers, &c., Escapement mechanism for. G. W. Donning. No. 1,145,832; July 6; Gaz. vol. 216; p. 300.
- Type-writers for coupling the paper-cylinder to the line-spacing wheel, Mechanism for. T. E. Buschmann. No. 1,152,075; Aug. 31; Gaz. vol. 217; p. 1528.
- Type-writers, Impression-registering device for. J. J. Toolan. No. 1,143,665; June 22; Gaz. vol. 215; p. 1003.
- Type-writers, Line-end indicator and lock for. J. R. Free. No. 1,136,949; Apr. 27; Gaz. vol. 213; p. 1134.
- Type-writers, Manifold attachment for. A. C. V. Malm and L. Rauh. No. 1,144,147; June 22; Gaz. vol. 215; p. 1172.
- Type-writers, Margin-adjusting attachment for. F. M. Dillon. No. 1,130,804; Mar. 9; Gaz. vol. 212; p. 370.
- Type-writers, Platen-carriage of. H. Etheridge. No. 1,127,216; Feb. 2; Gaz. vol. 211; p. 195.
- Type-writers, Stencil-card-feeding attachment for. A. L. McCawley and W. W. Phillips. No. 1,140,518; May 25; Gaz. vol. 214; p. 1094.
- Type-writers, &c., Stop means for automatic. P. J. Dreher. No. 1,149,561; Aug. 10; Gaz. vol. 217; p. 485.
- Type-writers, Tally attachment for. J. Ziegler. No. 1,146,382; July 13; Gaz. vol. 216; p. 512.

Alphabetical list of inventions—Continued.

- Type-writing and adding-machine and means for automatically operating the same. C. B. Yaw. No. 1,124,378; Jan. 12; Gaz. vol. 210; p. 454.
- Type-writing and computing machine. G. O. Degener. No. 1,149,555; Aug. 10; Gaz. vol. 217; p. 483.
- Type-writing and computing machine. G. O. Degener and J. E. Davidson. No. 1,163,644; Dec. 14; Gaz. vol. 221; p. 362.
- Type-writing and computing machine. L. P. Polhuis. No. 1,147,431; July 20; Gaz. vol. 216; p. 900.
- Type-writing and computing machine, Combined. G. O. Degener. No. 1,149,187; Aug. 10; Gaz. vol. 217; p. 351.
- Type-writing and computing machine, Combined. F. F. Main. No. 1,157,884; Oct. 26; Gaz. vol. 219; p. 1012.
- Type-writing and computing machine, Combined. H. Marshall. No. 1,147,959; July 27; Gaz. vol. 216; p. 1111.
- Type-writing and computing machine, Combined. J. Waldheim. No. 1,159,557; Nov. 9; Gaz. vol. 220; p. 433.
- Type-writing and computing machine, Combined. L. A. Wernery. No. 1,144,975; June 29; Gaz. vol. 215; p. 1484.
- Type-writing and perforating device. H. Drewell. No. 1,163,986; Dec. 14; Gaz. vol. 221; p. 483.
- Type-writing machine. N. H. Anderson. No. 1,123,463; Jan. 5; Gaz. vol. 210; p. 91.
- Type-writing machine. N. H. Anderson. No. 1,141,168; June 1; Gaz. vol. 215; p. 27.
- Type-writing machine. N. H. Anderson. No. 1,155,634; Oct. 5; Gaz. vol. 219; p. 107.
- Type-writing machine. N. H. Anderson. No. 1,155,636; Oct. 5; Gaz. vol. 219; p. 108.
- Type-writing machine. N. H. Anderson. No. 1,161,181; Nov. 23; Gaz. vol. 220; p. 1108.
- Type-writing machine. N. H. Anderson. No. 1,162,434; Nov. 30; Gaz. vol. 220; p. 1591.
- Type-writing machine. N. H. Anderson. No. 1,163,966; Dec. 14; Gaz. vol. 221; p. 476.
- Type-writing machine. N. H. Anderson. No. 1,164,622; Dec. 21; Gaz. vol. 221; p. 745.
- Type-writing machine. E. E. Barney. No. 1,125,922; Jan. 26; Gaz. vol. 210; p. 1071.
- Type-writing machine. E. E. Barney. No. 1,133,697; Mar. 30; Gaz. vol. 212; p. 1524.
- Type-writing machine. J. H. Barr. No. 1,128,571; Feb. 16; Gaz. vol. 211; p. 756.
- Type-writing machine. J. H. Barr. No. 1,130,875; Mar. 9; Gaz. vol. 212; p. 394.
- Type-writing machine. J. H. Barr. No. 1,153,668; Sept. 14; Gaz. vol. 218; p. 499.
- Type-writing machine. J. H. Barr and E. E. Barney. No. 1,164,056; Dec. 14; Gaz. vol. 221; p. 508.
- Type-writing machine. F. E. Becker. No. 1,159,886; Nov. 9; Gaz. vol. 220; p. 552.
- Type-writing machine. R. M. Becker. No. 1,150,164; Aug. 17; Gaz. vol. 217; p. 766.
- Type-writing machine. R. M. Becker. No. 1,152,928; Sept. 7; Gaz. vol. 218; p. 201.
- Type-writing machine. O. Bennett. No. 1,151,757; Aug. 31; Gaz. vol. 217; p. 1416.
- Type-writing machine. G. B. Brand. No. 1,135,991; Apr. 13; Gaz. vol. 213; p. 369.
- Type-writing machine. G. B. Brand. No. 1,151,337; Aug. 24; Gaz. vol. 217; p. 1226.
- Type-writing machine. A. J. Briggs. No. 1,130,883; Mar. 9; Gaz. vol. 212; p. 397.
- Type-writing machine. A. J. Briggs. No. 1,131,670; Mar. 16; Gaz. vol. 212; p. 703.
- Type-writing machine. A. J. Briggs. No. 1,132,300; Mar. 16; Gaz. vol. 212; p. 933.
- Type-writing machine. A. J. Briggs. No. 1,132,908; Mar. 23; Gaz. vol. 212; p. 1202.
- Type-writing machine. A. J. Briggs. No. 1,134,101; Apr. 6; Gaz. vol. 213; p. 7.
- Type-writing machine. A. J. Briggs. No. 1,138,931; May 11; Gaz. vol. 214; p. 463.
- Type-writing machine. A. J. Briggs. No. 1,147,299; July 20; Gaz. vol. 216; p. 852.
- Type-writing machine. A. J. Briggs. No. 1,160,134; Nov. 16; Gaz. vol. 220; p. 692.
- Type-writing machine. C. H. Brown. No. 1,137,115; Apr. 27; Gaz. vol. 213; p. 1195.
- Type-writing machine. T. E. Buschmann. No. 1,133,096; Mar. 23; Gaz. vol. 212; p. 1272.
- Type-writing machine. H. A. Carhart. No. 1,127,731; Feb. 9; Gaz. vol. 211; p. 414.
- Type-writing machine. S. E. Carlin. No. 1,132,558; Mar. 23; Gaz. vol. 212; p. 1073.
- Type-writing machine. S. E. Carlin. No. 1,133,004; Mar. 23; Gaz. vol. 212; p. 1259.
- Type-writing machine. S. E. Carlin. No. 1,156,464; Oct. 12; Gaz. vol. 219; p. 422.
- Type-writing machine. D. A. Carpenter. No. 1,156,588; Oct. 12; Gaz. vol. 219; p. 464.
- Type-writing machine. J. J. Cooper. No. 1,131,997; Mar. 16; Gaz. vol. 212; p. 821.
- Type-writing machine. J. J. Cooper. No. 1,158,985; Nov. 2; Gaz. vol. 220; p. 200.
- Type-writing machine. C. B. Corcoran. No. 1,127,863; Feb. 9; Gaz. vol. 211; p. 462.
- Type-writing machine. C. B. Corcoran. No. 1,132,166; Mar. 16; Gaz. vol. 212; p. 883.
- Type-writing machine. C. B. Corcoran. No. 1,144,755; June 29; Gaz. vol. 215; p. 1409.
- Type-writing machine. G. F. Coverdell. No. 1,152,934; Sept. 7; Gaz. vol. 218; p. 204.
- Type-writing machine. H. Crutchley. No. 1,142,800; June 15; Gaz. vol. 215; p. 676.
- Type-writing machine. H. W. Davis. No. 1,155,707; Oct. 5; Gaz. vol. 219; p. 133.
- Type-writing machine. A. S. Dennis. No. 1,150,345; Aug. 17; Gaz. vol. 217; p. 829.
- Type-writing machine. B. M. Des Jardins. No. 1,148,663; Aug. 3; Gaz. vol. 217; p. 65.
- Type-writing machine. J. C. Doane. No. 1,157,683; Oct. 26; Gaz. vol. 219; p. 943.
- Type-writing machine. S. H. Farnham, A. W. Smith, and J. Phelps. No. 1,131,828; Mar. 16; Gaz. vol. 212; p. 761.
- Type-writing machine. H. A. Footthorap. No. 1,146,148; July 13; Gaz. vol. 216; p. 431.
- Type-writing machine. B. P. Fortin. No. 1,144,978; June 29; Gaz. vol. 215; p. 1485.
- Type-writing machine. C. T. Frantz. No. 1,124,219; Jan. 5; Gaz. vol. 210; p. 349.
- Type-writing machine. H. L. Fritze. No. 1,159,921; Nov. 9; Gaz. vol. 220; p. 565.
- Type-writing machine. P. V. Gilfillan. No. 1,151,872; Aug. 31; Gaz. vol. 217; p. 1458.
- Type-writing machine. J. C. Harvey. No. 1,152,944; Sept. 7; Gaz. vol. 218; p. 208.
- Type-writing machine. J. C. Harvey. No. 1,152,945; Sept. 7; Gaz. vol. 218; p. 208.
- Type-writing machine. F. Heidner. No. 1,138,474; May 4; Gaz. vol. 214; p. 265.
- Type-writing machine. W. F. Helmond. No. 1,148,167; July 27; Gaz. vol. 216; p. 1187.
- Type-writing machine. W. F. Helmond. No. 1,150,366; Aug. 17; Gaz. vol. 217; p. 836.
- Type-writing machine. C. A. Hendrickson. No. 1,150,834; Aug. 17; Gaz. vol. 217; p. 998.
- Type-writing machine. E. B. Hess. No. 1,127,887; Feb. 9; Gaz. vol. 211; p. 470.
- Type-writing machine. E. B. Hess. No. 1,138,106; May 4; Gaz. vol. 214; p. 136.
- Type-writing machine. E. B. Hess. No. 1,165,170; Dec. 21; Gaz. vol. 221; p. 938.
- Type-writing machine. E. B. Hess. No. 1,165,171; Dec. 21; Gaz. vol. 221; p. 938.
- Type-writing machine. F. W. Hillard. No. 1,139,035; May 11; Gaz. vol. 214; p. 502.
- Type-writing machine. F. C. Jones. No. 1,164,651; Dec. 21; Gaz. vol. 221; p. 755.
- Type-writing machine. O. C. Kavle. No. 1,142,568; June 8; Gaz. vol. 215; p. 558.
- Type-writing machine. W. P. Kidder. No. 1,146,578; July 13; Gaz. vol. 216; p. 583.
- Type-writing machine. W. P. Kidder. No. 1,164,942; Dec. 21; Gaz. vol. 221; p. 857.
- Type-writing machine. A. G. F. Kurowski. No. 1,128,612; Feb. 16; Gaz. vol. 211; p. 771.
- Type-writing machine. A. G. F. Kurowski. No. 1,130,178; Mar. 2; Gaz. vol. 212; p. 117.
- Type-writing machine. A. G. F. Kurowski. No. 1,137,869; May 4; Gaz. vol. 214; p. 51.
- Type-writing machine. A. G. F. Kurowski. No. 1,141,558; June 1; Gaz. vol. 215; p. 168.
- Type-writing machine. A. G. F. Kurowski. No. 1,144,766; June 29; Gaz. vol. 215; p. 1413.
- Type-writing machine. A. G. F. Kurowski. No. 1,145,373; July 6; Gaz. vol. 216; p. 138.
- Type-writing machine. A. G. F. Kurowski. No. 1,150,868; Aug. 24; Gaz. vol. 217; p. 1069.
- Type-writing machine. A. G. F. Kurowski. No. 1,163,761; Dec. 14; Gaz. vol. 221; p. 405.
- Type-writing machine. E. G. Latta. No. 1,160,912; Nov. 16; Gaz. vol. 220; p. 967.
- Type-writing machine. M. H. Lockwood. No. 1,143,212; June 15; Gaz. vol. 215; p. 823.
- Type-writing machine. M. H. Lockwood. No. 1,158,818; Nov. 2; Gaz. vol. 220; p. 144.
- Type-writing machine. M. H. Lockwood. No. 1,158,819; Nov. 2; Gaz. vol. 220; p. 145.
- Type-writing machine. A. Lopez. No. 1,155,828; Oct. 5; Gaz. vol. 219; p. 176.
- Type-writing machine. W. A. Lorenz. No. 1,123,561; Jan. 5; Gaz. vol. 210; p. 124.
- Type-writing machine. W. A. Lorenz. No. 1,123,771; Jan. 5; Gaz. vol. 210; p. 196.
- Type-writing machine. W. A. Lorenz. No. 1,127,048; Feb. 2; Gaz. vol. 211; p. 135.
- Type-writing machine. W. A. Lorenz. No. 1,149,659; Aug. 10; Gaz. vol. 217; p. 524.
- Type-writing machine. W. A. Lorenz. No. 1,158,941; Nov. 2; Gaz. vol. 220; p. 186.
- Type-writing machine. W. A. Lorenz. No. 1,164,945; Dec. 21; Gaz. vol. 221; p. 859.
- Type-writing machine. C. F. Lundeborg. No. 1,124,483; Jan. 12; Gaz. vol. 210; p. 492.
- Type-writing machine. S. M. Mann. No. 1,151,493; Aug. 24; Gaz. vol. 217; p. 1279.

Alphabetical list of inventions—Continued.

- Type-writing machine. O. O. Martin. No. 1,136,028; Apr. 20; Gaz. vol. 213; p. 772.
- Type-writing machine. J. C. McLaughlin. No. 1,140,273; May 18; Gaz. vol. 214; p. 970.
- Type-writing machine. J. C. McLaughlin. No. 1,140,274; May 18; Gaz. vol. 214; p. 970.
- Type-writing machine. S. L. W. Merlin. No. 1,140,330; May 18; Gaz. vol. 214; p. 990.
- Type-writing machine. W. Metzroth. No. 1,139,890; May 18; Gaz. vol. 214; p. 837.
- Type-writing machine. H. Mikkelsen. No. 1,150,287; Aug. 17; Gaz. vol. 217; p. 810.
- Type-writing machine. H. A. Moyer. No. 1,164,660; Dec. 21; Gaz. vol. 221; p. 759.
- Type-writing machine. J. J. O'Regan. No. 1,141,651; June 1; Gaz. vol. 215; p. 201.
- Type-writing machine. C. J. Paulson and J. E. Simpson. No. 1,150,382; Aug. 17; Gaz. vol. 217; p. 841.
- Type-writing machine. O. Petermann. No. 1,137,277; Apr. 27; Gaz. vol. 213; p. 1255.
- Type-writing machine. O. Petermann. No. 1,161,880; Nov. 30; Gaz. vol. 220; p. 1398.
- Type-writing machine. O. Petermann. No. 1,162,508; Nov. 30; Gaz. vol. 220; p. 1618.
- Type-writing machine. W. W. Phillips. No. 1,142,363; June 8; Gaz. vol. 215; p. 486.
- Type-writing machine. L. L. Pritzel. No. 1,153,252; Sept. 14; Gaz. vol. 218; p. 351.
- Type-writing machine. J. Raber. No. 1,129,012; Feb. 16; Gaz. vol. 211; p. 912.
- Type-writing machine. J. A. Rennie. No. 1,152,972; Sept. 7; Gaz. vol. 218; p. 218.
- Type-writing machine. C. F. Richardson. No. 1,126,277; Jan. 26; Gaz. vol. 210; p. 1201.
- Type-writing machine. C. F. Richardson. No. 1,126,278; Jan. 26; Gaz. vol. 210; p. 1201.
- Type-writing machine. L. R. Roberts. No. 1,131,960; Mar. 16; Gaz. vol. 212; p. 807.
- Type-writing machine. L. R. Roberts. No. 1,135,140; Apr. 13; Gaz. vol. 213; p. 422.
- Type-writing machine. A. C. Roebuck. No. 1,146,959; July 20; Gaz. vol. 216; p. 735.
- Type-writing machine. J. A. Ronchetti. No. 1,163,955; Dec. 14; Gaz. vol. 221; p. 472.
- Type-writing machine. F. S. Rose. (Reissue.) No. 1,139,34; June 22; Gaz. vol. 215; p. 1241.
- Type-writing machine. V. B. Roullot. No. 1,163,774; Dec. 14; Gaz. vol. 221; p. 410.
- Type-writing machine. M. B. Sargent. No. 1,149,087; Aug. 3; Gaz. vol. 217; p. 212.
- Type-writing machine. M. B. Sargent and A. E. Karlberg. No. 1,153,959; Sept. 21; Gaz. vol. 218; p. 636.
- Type-writing machine. J. B. Secor. No. 1,140,190; May 18; Gaz. vol. 214; p. 943.
- Type-writing machine. G. A. Seib. No. 1,132,286; Mar. 16; Gaz. vol. 212; p. 928.
- Type-writing machine. G. A. Seib. No. 1,153,716; Sept. 14; Gaz. vol. 218; p. 518.
- Type-writing machine. W. G. Sheldon. No. 1,152,921; Sept. 7; Gaz. vol. 218; p. 198.
- Type-writing machine. W. G. Sheldon. No. 1,156,437; Oct. 12; Gaz. vol. 219; p. 412.
- Type-writing machine. Z. G. Sholes. No. 1,162,194; Nov. 30; Gaz. vol. 220; p. 1510.
- Type-writing machine. A. W. Smith. No. 1,126,895; Feb. 2; Gaz. vol. 211; p. 81.
- Type-writing machine. A. W. Smith. No. 1,127,931; Feb. 9; Gaz. vol. 211; p. 486.
- Type-writing machine. A. W. Smith. No. 1,127,932; Feb. 9; Gaz. vol. 211; p. 486.
- Type-writing machine. A. W. Smith. No. 1,132,743; Mar. 23; Gaz. vol. 212; p. 1142.
- Type-writing machine. A. W. Smith. No. 1,147,821; July 27; Gaz. vol. 216; p. 1062.
- Type-writing machine. A. W. Smith. No. 1,147,902; July 27; Gaz. vol. 216; p. 1091.
- Type-writing machine. A. W. Smith. No. 1,147,981; July 27; Gaz. vol. 216; p. 1119.
- Type-writing machine. A. W. Smith. No. 1,161,541; Nov. 23; Gaz. vol. 220; p. 1236.
- Type-writing machine. A. W. Smith. No. 1,161,542; Nov. 23; Gaz. vol. 220; p. 1236.
- Type-writing machine. C. E. Smith. No. 1,154,213; Sept. 21; Gaz. vol. 218; p. 722.
- Type-writing machine. C. E. Smith. No. 1,154,344; Sept. 21; Gaz. vol. 218; p. 769.
- Type-writing machine. J. A. B. Smith. No. 1,149,794; Aug. 10; Gaz. vol. 217; p. 570.
- Type-writing machine. J. A. B. Smith. No. 1,150,827; Aug. 17; Gaz. vol. 217; p. 995.
- Type-writing machine. J. A. B. Smith. No. 1,152,563; Sept. 7; Gaz. vol. 218; p. 68.
- Type-writing machine. J. A. B. Smith. No. 1,152,856; Sept. 7; Gaz. vol. 218; p. 176.
- Type-writing machine. J. A. B. Smith. No. 1,160,459; Nov. 16; Gaz. vol. 220; p. 804.
- Type-writing machine. S. T. Smith. No. 1,151,730; Aug. 31; Gaz. vol. 217; p. 1407.
- Type-writing machine. S. T. Smith. No. 1,159,116; Nov. 2; Gaz. vol. 220; p. 244.
- Type-writing machine. S. T. Smith. No. 1,159,427; Nov. 9; Gaz. vol. 220; p. 387.
- Type-writing machine. S. T. Smith. No. 1,159,541; Nov. 9; Gaz. vol. 220; p. 426.
- Type-writing machine. H. H. Steele. No. 1,126,585; Jan. 26; Gaz. vol. 210; p. 1315.
- Type-writing machine. H. H. Steele. No. 1,138,992; May 11; Gaz. vol. 214; p. 485.
- Type-writing machine. H. H. Steele. No. 1,138,993; May 11; Gaz. vol. 214; p. 485.
- Type-writing machine. B. C. Stickney. No. 1,124,967; Jan. 12; Gaz. vol. 210; p. 664.
- Type-writing machine. B. C. Stickney. No. 1,125,205; Jan. 19; Gaz. vol. 210; p. 785.
- Type-writing machine. B. C. Stickney. No. 1,139,080; May 11; Gaz. vol. 214; p. 517.
- Type-writing machine. B. C. Stickney. No. 1,158,408; Oct. 26; Gaz. vol. 219; p. 1197.
- Type-writing machine. B. C. Stickney. No. 1,163,790; Dec. 14; Gaz. vol. 221; p. 416.
- Type-writing machine. B. C. Stickney. No. 1,163,791; Dec. 14; Gaz. vol. 221; p. 416.
- Type-writing machine. B. C. Stickney. No. 1,163,869; Dec. 14; Gaz. vol. 221; p. 443.
- Type-writing machine. E. E. Strong. No. 1,125,761; Jan. 19; Gaz. vol. 210; p. 984.
- Type-writing machine. S. W. Turner. No. 1,124,557; Jan. 12; Gaz. vol. 210; p. 518.
- Type-writing machine. F. C. Ursbruck. No. 1,151,839; Aug. 31; Gaz. vol. 217; p. 1445.
- Type-writing machine. F. C. Ursbruck. No. 1,156,331; Oct. 12; Gaz. vol. 219; p. 373.
- Type-writing machine. G. Voelker. No. 1,128,736; Feb. 16; Gaz. vol. 211; p. 812.
- Type-writing machine. G. Voelker. No. 1,130,776; Mar. 9; Gaz. vol. 212; p. 360.
- Type-writing machine. G. Voelker. No. 1,153,651; Sept. 14; Gaz. vol. 218; p. 494.
- Type-writing machine. G. Voelker. No. 1,163,048; Dec. 7; Gaz. vol. 221; p. 109.
- Type-writing machine. L. A. Wernery and J. A. B. Smith. No. 1,132,055; Mar. 16; Gaz. vol. 212; p. 843.
- Type-writing machine. J. A. Whitcomb. No. 1,126,147; Jan. 26; Gaz. vol. 210; p. 1154.
- Type-writing machine. J. A. Whitcomb. No. 1,126,169; Jan. 26; Gaz. vol. 210; p. 1163.
- Type-writing machine. H. L. White. No. 1,158,608; Nov. 2; Gaz. vol. 220; p. 70.
- Type-writing machine. H. L. White. No. 1,158,609; Nov. 2; Gaz. vol. 220; p. 71.
- Type-writing machine. H. C. Wissman. No. 1,148,562; Aug. 3; Gaz. vol. 217; p. 28.
- Type-writing machine. O. Woodward. No. 1,124,828; Jan. 12; Gaz. vol. 210; p. 616.
- Type-writing machine. W. Wright. No. 1,163,801; Dec. 14; Gaz. vol. 221; p. 420.
- Type-writing machine. C. B. Yaw. No. 1,138,920; May 11; Gaz. vol. 214; p. 458.
- Type-writing machine. C. B. Yaw. No. 1,141,857; June 1; Gaz. vol. 215; p. 268.
- Type-writing machine. C. B. Yaw. No. 1,142,005; June 8; Gaz. vol. 215; p. 359.
- Type-writing machine. C. B. Yaw. No. 1,152,463; Sept. 7; Gaz. vol. 218; p. 28.
- Type-writing machine. C. B. Yaw. No. 1,157,276; Oct. 19; Gaz. vol. 219; p. 738.
- Type-writing machine. C. B. Yaw. No. 1,161,915; Nov. 30; Gaz. vol. 220; p. 1411.
- Type-writing machine. F. A. Young. No. 1,139,946; May 18; Gaz. vol. 214; p. 856.
- Type-writing-machine adding attachment. F. R. Cornwall. No. 1,155,642; Oct. 5; Gaz. vol. 219; p. 110.
- Type-writing-machine back-spacing device. A. Utz. No. 1,154,277; Sept. 21; Gaz. vol. 218; p. 745.
- Type-writing-machine card guiding and holding device. E. B. Hess. No. 1,165,598; Dec. 28; Gaz. vol. 221; p. 1125.
- Type-writing-machine carriage. A. Lopez. No. 1,126,644; Jan. 26; Gaz. vol. 210; p. 1335.
- Type-writing-machine carriage. O. Petermann. No. 1,162,507; Nov. 30; Gaz. vol. 220; p. 1617.
- Type-writing machine. Coin-controlled. A. G. F. Kurowski. No. 1,141,559; June 1; Gaz. vol. 215; p. 168.
- Type-writing-machine copy-holder. M. Balaban. No. 1,135,751; Apr. 13; Gaz. vol. 213; p. 634.
- Type-writing-machine copy-holder. M. Balaban. No. 1,135,752; Apr. 13; Gaz. vol. 213; p. 634.
- Type-writing machine. Cryptographic. K. Ammon. No. 1,149,803; Aug. 10; Gaz. vol. 217; p. 574.
- Type-writing-machine key. N. H. Anderson. No. 1,160,560; Nov. 16; Gaz. vol. 220; p. 842.
- Type-writing-machine keyboard. O. Petermann. No. 1,144,238; June 22; Gaz. vol. 215; p. 1205.
- Type-writing-machine line-spacing mechanism. J. A. Ronchetti. No. 1,162,192; Nov. 30; Gaz. vol. 220; p. 1509.
- Type-writing-machine platen. W. R. Mulock. No. 1,156,614; Oct. 12; Gaz. vol. 219; p. 474.
- Type-writing-machine platen equipment. E. N. Stephenson. No. 1,128,382; Feb. 16; Gaz. vol. 211; p. 690.
- Type-writing-machine platen-shifting mechanism. N. H. Anderson. No. 1,155,635; Oct. 5; Gaz. vol. 219; p. 107.
- Type-writing-machine ribbon device. E. B. Hess. No. 1,138,655; May 11; Gaz. vol. 214; p. 364.

Alphabetical list of inventions—Continued.

- Type-writing-machine ribbon feeding and operating mechanism. J. Alexander. No. 1,163,580; Dec. 7; Gaz. vol. 221; p. 295.
- Type-writing-machine ribbon mechanism. T. E. Buschmann. No. 1,165,941; Dec. 28; Gaz. vol. 221; p. 1244.
- Type-writing-machine ribbon mechanism. E. B. Hess. No. 1,130,401; Mar. 2; Gaz. vol. 212; p. 195.
- Type-writing-machine ribbon-spool. E. B. Hess and L. C. Myers. No. 1,156,141; Oct. 12; Gaz. vol. 219; p. 310.
- Type-writing-machine stand. H. Bates and A. G. F. Kurowski. No. 1,139,833; May 18; Gaz. vol. 214; p. 816.
- Type-writing machines and the like, Keyboard of. J. H. Hotson. No. 1,146,331; July 13; Gaz. vol. 216; p. 494.
- Type-writing machines, Carbon-copy attachment for. P. E. Pierce. No. 1,149,855; Aug. 10; Gaz. vol. 217; p. 593.
- Type-writing machines, Card attachment for. F. W. Bufum and M. A. Culling. No. 1,146,129; July 13; Gaz. vol. 216; p. 424.
- Type-writing machines, Card-writing platen for. C. Gabrielson. No. 1,160,503; Nov. 16; Gaz. vol. 220; p. 821.
- Type-writing machines, Card-writing platen for. C. Gabrielson. No. 1,160,504; Nov. 16; Gaz. vol. 220; p. 821.
- Type-writing machines, Carriage-escapement for. O. Bennett. No. 1,151,755; Aug. 31; Gaz. vol. 217; p. 1415.
- Type-writing machines, Carriage-feeding spring-barrel for. L. C. Myers. No. 1,148,251; July 27; Gaz. vol. 216; p. 1216.
- Type-writing machines, Carriage-return mechanism for. O. Bennett. No. 1,151,756; Aug. 31; Gaz. vol. 217; p. 1416.
- Type-writing machines, Cryptographic attachment for. E. H. Hebern and F. Hoffman. No. 1,123,738; Jan. 5; Gaz. vol. 210; p. 184.
- Type-writing machines, Envelop and card feed device for. E. B. Hess. No. 1,143,269; June 15; Gaz. vol. 215; p. 842.
- Type-writing machines, Envelop and card feed device for. L. C. Myers. No. 1,136,034; Apr. 20; Gaz. vol. 213; p. 774.
- Type-writing machines, Escapement mechanism for. O. Petermann. No. 1,140,848; May 25; Gaz. vol. 214; p. 1206.
- Type-writing machines, Erasing-shield for. B. P. Fortin. No. 1,152,938; Sept. 7; Gaz. vol. 218; p. 206.
- Type-writing machines, Manifolding attachment for. A. C. V. Malm. No. 1,144,146; June 22; Gaz. vol. 215; p. 1171.
- Type-writing machines, Manifolding device for. A. C. V. Malm, L. Raub, and C. R. Aker. No. 1,130,751; Mar. 9; Gaz. vol. 212; p. 351.
- Type-writing machines, Paper-feed-release mechanism for. E. L. C. Clark. No. 1,163,971; Dec. 14; Gaz. vol. 221; p. 478.
- Type-writing machines, Paper-guiding device for. H. I. Cromer and C. C. Harting. No. 1,159,749; Nov. 9; Gaz. vol. 220; p. 502.
- Type-writing machines, Paper-guiding device for. J. A. Hagerstrom. No. 1,126,451; Jan. 26; Gaz. vol. 210; p. 1263.
- Type-writing machines, Paper supporting and feeding mechanism for. O. O. Martin. No. 1,159,404; Nov. 9; Gaz. vol. 220; p. 378.
- Type-writing machines, Ribbon-feed shift for. L. C. Myers. No. 1,161,509; Nov. 23; Gaz. vol. 220; p. 1225.
- Type-writing machines, Sheet feeding and delivering device for automatically-operated. L. R. Roberts and C. L. Davis. No. 1,132,034; Mar. 16; Gaz. vol. 212; p. 835.
- Type-writing machines, Shifting and buffer mechanism for. W. R. Fox. No. 1,163,133; Dec. 7; Gaz. vol. 221; p. 139.
- Type-writing machines, Stencil-writing attachment for. F. W. Buffum. No. 1,141,525; June 1; Gaz. vol. 215; p. 157.
- Type-writing machines, Type-action for. N. H. Anderson. No. 1,130,130; Mar. 2; Gaz. vol. 212; p. 100.
- Type-writing machines, Type-shifting attachment for. A. Lopez. No. 1,131,640; Mar. 9; Gaz. vol. 212; p. 659.
- Type-writing machines, Variable line-spacer for. W. K. Richardson. No. 1,131,958; Mar. 16; Gaz. vol. 212; p. 807.
- Types, Producing printing. G. R. Cornwall. No. 1,128,267; Feb. 9; Gaz. vol. 211; p. 602.
- Typograph. W. A. Reade. No. 1,146,277; July 13; Gaz. vol. 216; p. 475.
- Typograph casting mechanism. C. H. Brasted. No. 1,146,302; July 13; Gaz. vol. 216; p. 483.
- Typograph composing mechanism. W. A. Reade. No. 1,146,278; July 13; Gaz. vol. 216; p. 476.
- Typographic apparatus, Machine for making composing-strips for automatic. A. L. Saltzman. No. 1,136,083; Apr. 20; Gaz. vol. 213; p. 790.
- Typographic machine. G. R. Cornwall. No. 1,126,618; Jan. 26; Gaz. vol. 210; p. 1326.
- Typographic machines, Machine for making a composing-ribbon or controller for automatic. F. E. Driscoll. No. 1,136,082; Apr. 20; Gaz. vol. 213; p. 789.
- Typographic machines, Machine for making composing-ribbons for automatic. C. T. Moore. No. 1,136,081; Apr. 20; Gaz. vol. 213; p. 789.
- Typographic or type-founding apparatus, Mold for. P. W. Druitt. No. 1,149,119; Aug. 3; Gaz. vol. 217; p. 221.
- Typographical casting-machine. R. M. Bedell. No. 1,129,159; Feb. 23; Gaz. vol. 211; p. 997.
- Typographical casting-machine. D. S. Kennedy. No. 1,142,258; June 8; Gaz. vol. 215; p. 449.
- Typographical casting-machine. D. S. Kennedy. No. 1,157,785; Oct. 26; Gaz. vol. 219; p. 977.
- Typographical casting-machine. J. R. Rogers. No. 1,137,023; Apr. 27; Gaz. vol. 213; p. 1162.
- Typographical composing and casting machine. C. Muehleisen. No. 1,137,013; Apr. 27; Gaz. vol. 213; p. 1158.
- Typographical composing and casting machines, Distributing mechanism for. C. Muehleisen. No. 1,136,550; Apr. 20; Gaz. vol. 213; p. 956.
- Typographical composing and casting machines, Distributing mechanism of. C. Muehleisen. No. 1,139,704; May 18; Gaz. vol. 214; p. 772.
- Typographical composing and distributing machine. W. E. Elliott. No. 1,158,662; Nov. 2; Gaz. vol. 220; p. 89.
- Typographical composing and distributing machine. C. Muehleisen. No. 1,136,551; Apr. 20; Gaz. vol. 213; p. 957.
- Typographical composing and distributing machines for display-work, head-lines, and the like, Matrices of. W. E. Elliott. No. 1,158,663; Nov. 2; Gaz. vol. 220; p. 90.
- Typographical composing and distributing machines, Means for changing magazines of multiple-magazine. K. Röger. No. 1,123,803; Jan. 5; Gaz. vol. 210; p. 207.
- Typographical composing-machine. M. J. Geel. No. 1,136,521; Apr. 20; Gaz. vol. 213; p. 947.
- Typographical composing-machine. A. Hoyer. No. 1,153,493; Sept. 14; Gaz. vol. 218; p. 438.
- Typographical composing-machine. A. Hoyer. No. 1,153,494; Sept. 14; Gaz. vol. 218; p. 439.
- Typographical composing-machine. C. Muehleisen. No. 1,125,150; Jan. 19; Gaz. vol. 210; p. 764.
- Typographical composing-machine. C. Muehleisen. No. 1,138,135; May 4; Gaz. vol. 214; p. 146.
- Typographical composing-machine. C. Muehleisen. No. 1,149,672; Aug. 10; Gaz. vol. 217; p. 529.
- Typographical composing-machine. C. Muehleisen. No. 1,153,511; Sept. 14; Gaz. vol. 218; p. 446.
- Typographical composing-machine. H. Pearce and J. E. Billington. No. 1,136,553; Apr. 20; Gaz. vol. 213; p. 957.
- Typographical composing-machine. H. Pearce and J. E. Billington. No. 1,141,208; June 1; Gaz. vol. 215; p. 42.
- Typographical composing-machine. K. Röger. No. 1,135,400; Apr. 13; Gaz. vol. 213; p. 509.
- Typographical composing-machine. K. Röger. No. 1,151,617; Aug. 31; Gaz. vol. 217; p. 1369.
- Typographical composing-machine. K. Röger. No. 1,161,161; Nov. 23; Gaz. vol. 220; p. 1100.
- Typographical composing-machine. J. P. Van Blijenburgh. No. 1,137,036; Apr. 27; Gaz. vol. 213; p. 1166.
- Typographical composing-machines, Distributing mechanism of. C. A. Albrecht. No. 1,142,222; June 8; Gaz. vol. 215; p. 436.
- Typographical composing-machines, Escapement mechanism of. J. E. Billington. No. 1,163,204; Dec. 7; Gaz. vol. 221; p. 164.
- Typograph composing mechanism. W. A. Reade. No. 1,154,054; Sept. 21; Gaz. vol. 218; p. 669.
- Typographical computing-machines, Non-print and non-compute mechanism for. G. Walker. No. 1,138,161; May 4; Gaz. vol. 214; p. 155.
- Typographical machine. C. A. Albrecht. No. 1,135,423; Apr. 13; Gaz. vol. 213; p. 518.
- Typographical machine. C. A. Albrecht. No. 1,142,221; June 8; Gaz. vol. 215; p. 436.
- Typographical machine. E. H. Atkins. No. 1,126,340; Jan. 26; Gaz. vol. 210; p. 1224.
- Typographical machine. G. E. Benjamin. No. 1,126,358; Jan. 26; Gaz. vol. 210; p. 1231.
- Typographical machine. R. M. Bedell. No. 1,157,753; Oct. 26; Gaz. vol. 219; p. 967.
- Typographical machine. B. Bloch. No. 1,154,166; Sept. 21; Gaz. vol. 218; p. 707.
- Typographical machine. C. C. Burdine. No. 1,126,383; Jan. 26; Gaz. vol. 210; p. 1239.
- Typographical machine. F. H. Campbell. No. 1,165,069; Dec. 21; Gaz. vol. 221; p. 901.
- Typographical machine. F. B. Converse. No. 1,129,851; Mar. 2; Gaz. vol. 212; p. 7.
- Typographical machine. N. Dodge. No. 1,123,707; Jan. 5; Gaz. vol. 210; p. 173.
- Typographical machine. N. Dodge. No. 1,129,176; Feb. 23; Gaz. vol. 211; p. 1004.
- Typographical machine. N. Dodge. No. 1,136,514; Apr. 20; Gaz. vol. 213; p. 945.
- Typographical machine. P. T. Dodge. No. 1,126,419; Jan. 26; Gaz. vol. 210; p. 1251.
- Typographical machine. P. T. Dodge. No. 1,129,177; Feb. 23; Gaz. vol. 211; p. 1004.
- Typographical machine. P. T. Dodge. No. 1,130,261; Mar. 2; Gaz. vol. 212; p. 145.
- Typographical machine. P. T. Dodge. No. 1,136,515; Apr. 20; Gaz. vol. 213; p. 945.
- Typographical machine. P. T. Dodge. No. 1,139,020; May 11; Gaz. vol. 214; p. 496.

Alphabetical list of inventions—Continued.

- Typographical machine. P. T. Dodge. No. 1,144,822; June 29; Gaz. vol. 215; p. 1433.
- Typographical machine. P. T. Dodge. No. 1,151,572; Aug. 31; Gaz. vol. 217; p. 1353.
- Typographical machine. P. T. Dodge. No. 1,158,792; Nov. 2; Gaz. vol. 220; p. 135.
- Typographical machine. J. W. Graham. No. 1,148,086; July 27; Gaz. vol. 216; p. 1153.
- Typographical machine. A. W. F. Guest. No. 1,151,944; Aug. 31; Gaz. vol. 217; p. 1480.
- Typographical machine. T. S. Homans. No. 1,153,080; Sept. 7; Gaz. vol. 218; p. 253.
- Typographical machine. T. S. Homans. No. 1,156,031; Oct. 5; Gaz. vol. 219; p. 245.
- Typographical machine. T. S. Homans. No. 1,161,803; Nov. 23; Gaz. vol. 220; p. 1326.
- Typographical machine. E. H. Johnson. No. 1,127,628; Feb. 9; Gaz. vol. 211; p. 376.
- Typographical machine. D. S. Kennedy. No. 1,125,116; Jan. 19; Gaz. vol. 210; p. 751.
- Typographical machine. D. S. Kennedy. No. 1,126,029; Jan. 26; Gaz. vol. 210; p. 1110.
- Typographical machine. D. S. Kennedy. No. 1,126,030; Jan. 26; Gaz. vol. 210; p. 1111.
- Typographical machine. D. S. Kennedy. No. 1,129,576; Feb. 23; Gaz. vol. 211; p. 1144.
- Typographical machine. D. S. Kennedy. No. 1,129,577; Feb. 23; Gaz. vol. 211; p. 1144.
- Typographical machine. D. S. Kennedy. No. 1,136,534; Apr. 20; Gaz. vol. 213; p. 951.
- Typographical machine. D. S. Kennedy. No. 1,136,535; Apr. 20; Gaz. vol. 213; p. 951.
- Typographical machine. D. S. Kennedy. No. 1,136,536; Apr. 20; Gaz. vol. 213; p. 951.
- Typographical machine. D. S. Kennedy. No. 1,136,537; Apr. 20; Gaz. vol. 213; p. 952.
- Typographical machine. D. S. Kennedy. No. 1,137,007; Apr. 27; Gaz. vol. 213; p. 1156.
- Typographical machine. D. S. Kennedy. No. 1,137,981; May 4; Gaz. vol. 214; p. 95.
- Typographical machine. D. S. Kennedy. No. 1,139,980; May 18; Gaz. vol. 214; p. 868.
- Typographical machine. D. S. Kennedy. No. 1,153,499; Sept. 14; Gaz. vol. 218; p. 441.
- Typographical machine. D. S. Kennedy. No. 1,157,784; Oct. 26; Gaz. vol. 219; p. 976.
- Typographical machine. D. S. Kennedy. No. 1,164,359; Dec. 14; Gaz. vol. 221; p. 614.
- Typographical machine. G. P. Kingsbury. No. 1,126,481; Jan. 26; Gaz. vol. 210; p. 1273.
- Typographical machine. G. P. Kingsbury. No. 1,130,174; Mar. 2; Gaz. vol. 212; p. 115.
- Typographical machine. G. P. Kingsbury. No. 1,130,175; Mar. 2; Gaz. vol. 212; p. 116.
- Typographical machine. M. W. Morehouse. No. 1,129,892; Mar. 2; Gaz. vol. 212; p. 21.
- Typographical machine. C. Muehleisen. No. 1,137,014; Apr. 27; Gaz. vol. 213; p. 1159.
- Typographical machine. C. Muehleisen. No. 1,138,003; May 4; Gaz. vol. 214; p. 98.
- Typographical machine. E. W. Pierson. No. 1,129,228; Feb. 23; Gaz. vol. 211; p. 1021.
- Typographical machine. E. W. Pierson. No. 1,129,601; Feb. 23; Gaz. vol. 211; p. 1154.
- Typographical machine. K. Röger. No. 1,137,021; Apr. 27; Gaz. vol. 213; p. 1161.
- Typographical machine. K. Röger. No. 1,142,272; June 8; Gaz. vol. 215; p. 454.
- Typographical machine. K. Röger. No. 1,165,128; Dec. 21; Gaz. vol. 221; p. 924.
- Typographical machine. J. R. Rogers. No. 1,131,425; Mar. 9; Gaz. vol. 212; p. 584.
- Typographical machine. J. R. Rogers. No. 1,137,022; Apr. 27; Gaz. vol. 213; p. 1162.
- Typographical machine. J. R. Rogers. No. 1,137,024; Apr. 27; Gaz. vol. 213; p. 1162.
- Typographical machine. J. R. Rogers. No. 1,137,904; May 4; Gaz. vol. 214; p. 63.
- Typographical machine. J. R. Rogers. No. 1,137,905; May 4; Gaz. vol. 214; p. 63.
- Typographical machine. J. R. Rogers. No. 1,151,618; Aug. 31; Gaz. vol. 217; p. 1370.
- Typographical machine. J. R. Rogers. No. 1,154,057; Sept. 21; Gaz. vol. 218; p. 670.
- Typographical machine. H. D. Taft. No. 1,153,463; Sept. 14; Gaz. vol. 218; p. 428.
- Typographical machine. J. A. Watson. No. 1,136,569; Apr. 20; Gaz. vol. 213; p. 964.
- Typographical machine mold. H. J. Rudolph. No. 1,157,808; Oct. 26; Gaz. vol. 219; p. 985.
- Typographical machines, Distributor for. B. Bloch. No. 1,135,430; Apr. 13; Gaz. vol. 213; p. 521.
- Typographical machines, Distributor mechanism for. H. L. Eigenbrot. No. 1,152,718; Sept. 7; Gaz. vol. 218; p. 124.
- Typographical machines, First elevator for. H. A. Armstrong. No. 1,129,941; Mar. 2; Gaz. vol. 212; p. 37.
- Typographical machines, Magazine for. W. H. Orpen, Jr. No. 1,156,033; Oct. 5; Gaz. vol. 219; p. 246.
- Typographical machines, Matrix-magazine for. T. S. Homans. No. 1,142,758; June 8; Gaz. vol. 215; p. 621.
- Typographical machines, Spacer for use in. C. H. Christel. No. 1,142,236; June 8; Gaz. vol. 215; p. 441.
- Typographical numbering-machine. J. H. Price. No. 1,155,369; Oct. 5; Gaz. vol. 219; p. 16.
- Typographs, Casting mechanism for. E. S. Carman. No. 1,124,293; Jan. 12; Gaz. vol. 210; p. 423.
- Typographs, Composing-machine for. W. A. Reade and G. O. Cromwell. No. 1,130,432; Mar. 2; Gaz. vol. 212; p. 206.
- Umbrella. H. Cohic. No. 1,140,801; May 25; Gaz. vol. 214; p. 1189.
- Umbrella. C. A. Hartfiel. No. 1,145,768; July 6; Gaz. vol. 216; p. 277.
- Umbrella. F. J. Heisler. No. 1,145,195; July 6; Gaz. vol. 216; p. 77.
- Umbrella. C. C. Hole. No. 1,145,310; July 6; Gaz. vol. 216; p. 116.
- Umbrella. K. C. Hout. No. 1,136,806; Apr. 20; Gaz. vol. 213; p. 1047.
- Umbrella. A. Ryder. No. 1,126,293; Jan. 26; Gaz. vol. 210; p. 1207.
- Umbrella. M. R. Schaffer. No. 1,135,055; Apr. 13; Gaz. vol. 213; p. 392.
- Umbrella. H. E. Schultz, Jr., and F. Wetteroth. No. 1,141,494; June 1; Gaz. vol. 215; p. 146.
- Umbrella. J. G. Wolfe. No. 1,136,386; Apr. 20; Gaz. vol. 213; p. 899.
- Umbrella and parasol frame. J. Rose. No. 1,156,709; Oct. 12; Gaz. vol. 219; p. 508.
- Umbrella attachment. J. J. Kirby. No. 1,140,309; May 18; Gaz. vol. 214; p. 982.
- Umbrella, cane, and the like. I. M. Grodin. No. 1,136,125; Apr. 20; Gaz. vol. 213; p. 804.
- Umbrella-covering machine. K. C. Hout and C. T. Hentschel. No. 1,135,803; Apr. 13; Gaz. vol. 213; p. 652.
- Umbrella-covers, Ferrule construction for. S. I. Goldstein. No. 1,134,121; Apr. 6; Gaz. vol. 213; p. 13.
- Umbrella, Electric. F. W. Smithing. No. 1,166,272; Dec. 28; Gaz. vol. 221; p. 1366.
- Umbrella, Foldable. J. A. Larsson. No. 1,161,139; Nov. 23; Gaz. vol. 220; p. 1092.
- Umbrella, Folding. W. Behling. No. 1,157,974; Oct. 26; Gaz. vol. 219; p. 1045.
- Umbrella, Folding. M. H. Hartzell. No. 1,149,828; Aug. 10; Gaz. vol. 217; p. 584.
- Umbrella, Folding. T. Slatter. No. 1,139,913; May 18; Gaz. vol. 214; p. 845.
- Umbrella, Folding. A. Stein. No. 1,124,353; Jan. 12; Gaz. vol. 210; p. 445.
- Umbrella-frame. W. S. Penn. No. 1,136,887; Apr. 20; Gaz. vol. 213; p. 1076.
- Umbrella-holder. G. Mardock. No. 1,133,989; Mar. 30; Gaz. vol. 212; p. 1621.
- Umbrella lock-box. W. W. Jackson. No. 1,160,081; Nov. 9; Gaz. vol. 220; p. 619.
- Umbrella or the like lock. G. Filippi. No. 1,142,043; June 15; Gaz. vol. 215; p. 762.
- Umbrella-rib-joint device. J. D. Williamson. No. 1,145,285; July 6; Gaz. vol. 216; p. 107.
- Umbrella-rib-tip retainer. F. C. Ernst. No. 1,144,182; June 22; Gaz. vol. 215; p. 1185.
- Umbrella-rod. R. Reininger. No. 1,136,167; Apr. 20; Gaz. vol. 213; p. 820.
- Umbrella-stand. P. A. Fair. No. 1,151,931; Aug. 31; Gaz. vol. 217; p. 1477.
- Umbrella-supporting device. C. Hohl and D. Baldwin. No. 1,162,608; Nov. 30; Gaz. vol. 220; p. 1649.
- Uncoupling attachment. W. J. Knox. No. 1,123,553; Jan. 5; Gaz. vol. 210; p. 121.
- Uncoupling attachment. W. J. Knox. No. 1,123,555; Jan. 5; Gaz. vol. 210; p. 122.
- Uncoupling device. C. A. Carscadin and G. A. Woodman. No. 1,129,070; Feb. 23; Gaz. vol. 211; p. 966.
- Uncoupling device. C. A. Carscadin and G. A. Woodman. No. 1,140,114; May 18; Gaz. vol. 214; p. 917.
- Uncoupling device. C. A. Carscadin and G. A. Woodman. No. 1,141,612; June 1; Gaz. vol. 215; p. 187.
- Uncoupling device. W. L. De Remer. No. 1,145,470; July 6; Gaz. vol. 216; p. 174.
- Uncoupling mechanism. L. T. Canfield. No. 1,141,933; June 8; Gaz. vol. 215; p. 334.
- Uncoupling-rigging. W. J. Knox. No. 1,123,554; Jan. 5; Gaz. vol. 210; p. 121.
- Under-water exploration, Device for. C. F. Jenkins. No. 1,156,782; Oct. 12; Gaz. vol. 219; p. 532.
- Underfeed furnace. R. S. Riley. No. 1,148,625; Aug. 3; Gaz. vol. 217; p. 51.
- Underfeed furnace. R. S. Riley. No. 1,160,324; Nov. 16; Gaz. vol. 220; p. 757.
- Underframe. F. H. Gibbs. No. 1,140,672; May 25; Gaz. vol. 214; p. 1145.
- Underframe construction. W. E. Fowler, Sr. No. 1,146,861; July 20; Gaz. vol. 216; p. 699.
- Underframe-reinforcement. A. H. Weston. No. 1,156,259; Oct. 12; Gaz. vol. 219; p. 348.
- Undergarment. A. Belotti. No. 1,161,439; Nov. 23; Gaz. vol. 220; p. 1201.
- Undergarment. W. R. Blain. No. 1,147,072; July 20; Gaz. vol. 216; p. 774.
- Undergarment. L. I. Collett. No. 1,156,757; Oct. 12; Gaz. vol. 219; p. 524.

Alphabetical list of inventions—Continued.

- Undergarment. L. H. Crawford. No. 1,140,122; May 18; Gaz. vol. 214; p. 920.
- Undergarment. L. Iocca. No. 1,155,732; Oct. 5; Gaz. vol. 219; p. 142.
- Undergarment. W. Marlow. No. 1,124,485; Jan. 12; Gaz. vol. 210; p. 493.
- Undergarment. R. W. McEwan. No. 1,128,702; Feb. 16; Gaz. vol. 211; p. 301.
- Undergarment. W. L. Norton. No. 1,146,092; July 13; Gaz. vol. 216; p. 411.
- Undergarment. G. E. Rutledge. No. 1,162,655; Nov. 30; Gaz. vol. 220; p. 1663.
- Undergarment. W. R. Schremp. No. 1,143,444; June 15; Gaz. vol. 215; p. 905.
- Undergarment. F. M. Shipley. No. 1,144,616; June 29; Gaz. vol. 215; p. 1360.
- Undergarment. A. B. Sibley. No. 1,147,653; July 20; Gaz. vol. 216; p. 978.
- Undergarment. H. L. Titterence. No. 1,157,063; Oct. 19; Gaz. vol. 219; p. 662.
- Undergarment. F. N. Workman. No. 1,128,213; Feb. 9; Gaz. vol. 211; p. 583.
- Undergarment. A. Wylie. No. 1,154,280; Sept. 21; Gaz. vol. 218; p. 746.
- Undergarment, Combination-. J. R. Sheffer. No. 1,146,209; July 13; Gaz. vol. 216; p. 452.
- Undergarment, Drop-seat. C. M. Walker. No. 1,159,438; Nov. 9; Gaz. vol. 220; p. 391.
- Undergarment, Infant's. G. F. Earnshaw. No. 1,125,985; Jan. 26; Gaz. vol. 210; p. 1095.
- Undergarment, Union. P. A. Luckett. No. 1,156,301; Oct. 12; Gaz. vol. 219; p. 362.
- Undergarment, Union. J. C. Scott. No. 1,138,982; May 11; Gaz. vol. 214; p. 481.
- Undergarment, Woman's. E. Emmers. No. 1,139,652; May 18; Gaz. vol. 214; p. 753.
- Underreamer. E. R. Beckert. No. 1,139,096; May 11; Gaz. vol. 214; p. 522.
- Underreamer. T. J. Griffin. No. 1,131,928; Mar. 16; Gaz. vol. 212; p. 796.
- Underreamer. F. A. Haugh. No. 1,137,615; Apr. 27; Gaz. vol. 213; p. 1372.
- Underreamer. F. A. Haugh. No. 1,144,195; June 22; Gaz. vol. 215; p. 1188.
- Underreamer. F. A. Haugh. No. 1,149,512; Aug. 10; Gaz. vol. 217; p. 467.
- Underreamer. J. C. Lego. No. 1,133,481; Mar. 30; Gaz. vol. 212; p. 1443.
- Underreamer. J. Lorenz. No. 1,136,543; Apr. 20; Gaz. vol. 213; p. 954.
- Underreamer. C. T. Mapes. No. 1,165,196; Dec. 21; Gaz. vol. 221; p. 947.
- Underreamer. J. W. Pippin. No. 1,133,398; Mar. 30; Gaz. vol. 212; p. 1415.
- Underreamer. W. Wagner. No. 1,149,799; Aug. 10; Gaz. vol. 217; p. 572.
- Underreamer setter, Double-. C. L. Nickolai. No. 1,157,577; Oct. 19; Gaz. vol. 219; p. 841.
- Undertaker's clamp. H. C. Eastlake. No. 1,129,856; Mar. 2; Gaz. vol. 212; p. 8.
- Undertow-warner indicator-register. M. M. Voorhees. No. 1,153,653; Sept. 14; Gaz. vol. 218; p. 494.
- Undervest, Lady's. E. Emmers. No. 1,152,405; Sept. 7; Gaz. vol. 218; p. 8.
- Underwaist and shoulder-brace, Combined. L. R. Perry. No. 1,129,515; Feb. 23; Gaz. vol. 211; p. 1123.
- Underwear. L. H. Crawford. No. 1,140,121; May 18; Gaz. vol. 214; p. 920.
- Underwear. M. M. Henderson. No. 1,141,636; June 1; Gaz. vol. 215; p. 195.
- Underwear. R. D. Ollar. No. 1,137,659; Apr. 27; Gaz. vol. 213; p. 1386.
- Unexplosive preparation. A. Schmidt. No. 1,136,723; Apr. 20; Gaz. vol. 213; p. 1019.
- Union garment. J. E. Burke. No. 1,152,484; Sept. 7; Gaz. vol. 218; p. 37.
- Union garment. M. Casmier. No. 1,161,842; Nov. 30; Gaz. vol. 220; p. 1386.
- Union suit. C. E. W. Bateson. No. 1,135,253; Apr. 13; Gaz. vol. 213; p. 459.
- Union suit. D. Cahill. No. 1,129,331; Feb. 23; Gaz. vol. 211; p. 1057.
- Union suit. D. C. Collier. No. 1,146,923; July 20; Gaz. vol. 216; p. 722.
- Union suit. B. M. Crouse. No. 1,135,668; Apr. 13; Gaz. vol. 213; p. 606.
- Union suit. H. C. Gingrich. No. 1,161,471; Nov. 23; Gaz. vol. 220; p. 1212.
- Union suit. M. M. Henderson. (Reissue.) No. 14,019; Nov. 23; Gaz. vol. 220; p. 1339.
- Union suit. L. Johnson. No. 1,137,629; Apr. 27; Gaz. vol. 213; p. 1377.
- Union suit. M. G. Rosenthal. No. 1,139,999; May 18; Gaz. vol. 214; p. 875.
- Union suit. C. A. Shedaker. No. 1,137,430; Apr. 27; Gaz. vol. 213; p. 1311.
- Union suit. J. R. Sheffer. No. 1,138,899; May 11; Gaz. vol. 214; p. 451.
- Union suit. K. H. White. No. 1,147,349; July 20; Gaz. vol. 216; p. 869.
- Union suit, Man's. I. Panitz. No. 1,155,091; Sept. 28; Gaz. vol. 218; p. 1054.
- Union suits, Making. W. Marlow. No. 1,128,343; Feb. 16; Gaz. vol. 211; p. 678.
- Unions and the like, Making. H. G. Carlson. No. 1,142,302; June 8; Gaz. vol. 215; p. 463.
- Unions and the like, Making. H. G. Carlson. No. 1,142,303; June 8; Gaz. vol. 215; p. 464.
- Uniting materials. G. C. Knauff. No. 1,165,680; Dec. 28; Gaz. vol. 221; p. 1155.
- Units, Base-lock for horizontal. E. Stuck. No. 1,129,247; Feb. 23; Gaz. vol. 211; p. 1029.
- Units composed of different metals, Producing. A. Brecht. No. 1,159,644; Nov. 9; Gaz. vol. 220; p. 464.
- Universal brace, Detachable. H. M. Schurz. No. 1,150,230; Aug. 17; Gaz. vol. 217; p. 789.
- Universal coupling. F. Simons. No. 1,140,720; May 25; Gaz. vol. 214; p. 1160.
- Universal coupling, &c. W. Kennedy. No. 1,139,125; May 11; Gaz. vol. 214; p. 533.
- Universal coupling for rolls, &c. W. Kennedy. No. 1,139,124; May 11; Gaz. vol. 214; p. 533.
- Universal coupling for shafts. P. Filipietz. No. 1,135,510; Apr. 13; Gaz. vol. 213; p. 548.
- Universal joint. W. F. Bockhoff. No. 1,143,596; June 15; Gaz. vol. 215; p. 956.
- Universal joint. A. G. Bowen. No. 1,145,400; July 6; Gaz. vol. 216; p. 148.
- Universal joint. A. G. Bowen. No. 1,145,401; July 6; Gaz. vol. 216; p. 148.
- Universal joint. W. Cannell. No. 1,159,176; Nov. 2; Gaz. vol. 220; p. 266.
- Universal joint. C. G. Capwell. No. 1,142,489; June 8; Gaz. vol. 215; p. 531.
- Universal joint. H. Cooper. No. 1,143,571; June 15; Gaz. vol. 215; p. 946.
- Universal joint. W. H. Douglas. No. 1,135,967; Apr. 13; Gaz. vol. 213; p. 710.
- Universal joint. E. P. Edwards. No. 1,136,466; Apr. 20; Gaz. vol. 213; p. 927.
- Universal joint. E. P. Edwards. No. 1,150,853; Aug. 24; Gaz. vol. 217; p. 1063.
- Universal joint. J. D. Fetzer. No. 1,128,430; Feb. 16; Gaz. vol. 211; p. 708.
- Universal joint. J. D. Fetzer. No. 1,128,431; Feb. 16; Gaz. vol. 211; p. 708.
- Universal joint. J. D. Fetzer. No. 1,128,432; Feb. 16; Gaz. vol. 211; p. 708.
- Universal joint. A. Hohmann. No. 1,123,533; Jan. 5; Gaz. vol. 210; p. 115.
- Universal joint. H. F. Hopkins. No. 1,153,789; Sept. 14; Gaz. vol. 218; p. 542.
- Universal joint. M. L. Jeffrey. No. 1,155,240; Sept. 28; Gaz. vol. 218; p. 1103.
- Universal joint. C. E. Perkins. No. 1,148,532; Aug. 3; Gaz. vol. 217; p. 17.
- Universal joint. J. R. Plank. No. 1,147,887; July 27; Gaz. vol. 216; p. 1086.
- Universal joint. S. I. Prescott. No. 1,141,211; June 1; Gaz. vol. 215; p. 43.
- Universal joint. G. F. Royer and L. F. Zweibel. No. 1,132,123; Mar. 16; Gaz. vol. 212; p. 867.
- Universal joint. H. W. Sneden. No. 1,129,025; Feb. 16; Gaz. vol. 211; p. 916.
- Universal joint. C. W. Spicer. No. 1,132,043; Mar. 16; Gaz. vol. 212; p. 838.
- Universal joint. C. W. Sponsel. No. 1,162,885; Dec. 7; Gaz. vol. 221; p. 52.
- Universal joint. P. K. Stern. No. 1,143,659; June 22; Gaz. vol. 215; p. 1001.
- Universal joint. P. K. Stern. No. 1,143,660; June 22; Gaz. vol. 215; p. 1002.
- Universal joint. C. E. Swenson. No. 1,163,871; Dec. 14; Gaz. vol. 221; p. 444.
- Universal joint, Ball-bearing. W. L. and S. D. Lindsay. No. 1,159,690; Nov. 9; Gaz. vol. 220; p. 480.
- Universal-joint mechanism. J. F. and H. E. Dodge. No. 1,144,531; June 29; Gaz. vol. 215; p. 1331.
- Universal mill. J. C. Cromwell. No. 1,163,975; Dec. 14; Gaz. vol. 221; p. 479.
- Unloaders. Discharge-feed for. J. P. Boshell. No. 1,135,348; Apr. 13; Gaz. vol. 213; p. 492.
- Unlocking device, Auxiliary. G. L. Stuebner. No. 1,131,749; Mar. 16; Gaz. vol. 212; p. 731.
- Unlocking doors and gates, Means for automatically. H. Gau. No. 1,148,161; July 27; Gaz. vol. 216; p. 1185.
- Upholstering-machine. F. R. Bacon. No. 1,159,885; Nov. 9; Gaz. vol. 220; p. 551.
- Upholstery. L. L. Dodd. No. 1,146,615; July 13; Gaz. vol. 216; p. 595.
- Upper-forming machine. M. Brock. No. 1,160,135; Nov. 16; Gaz. vol. 220; p. 692.
- Upper-pulling mechanism. P. J. Wentworth. No. 1,139,613; May 18; Gaz. vol. 214; p. 738.
- Upper-stretching machines, Toe-cutting attachment for. R. F. McFeely. No. 1,149,202; Aug. 10; Gaz. vol. 217; p. 357.
- Urethroscope or endoscope. F. Cerbo. No. 1,139,015; May 11; Gaz. vol. 214; p. 494.
- Urinal. P. J. Madden. No. 1,162,500; Nov. 30; Gaz. vol. 220; p. 1614.
- Urn, Coffee-. G. A. Ray. No. 1,157,805; Oct. 26; Gaz. vol. 219; p. 984.

Alphabetical list of inventions—Continued.

- Utensil, Combination. M. Dorn. No. 1,148,084; July 27; Gaz. vol. 216; p. 1157.
- Utensil, Domestic. J. N. Jackson. No. 1,156,781; Oct. 12; Gaz. vol. 219; p. 532.
- Utensil-handle, Insulated. J. Achberger. No. 1,162,896; Dec. 7; Gaz. vol. 221; p. 56.
- Utensil, Household. J. H. Ubelaker and R. A. Krmaschek. No. 1,158,591; Nov. 2; Gaz. vol. 220; p. 64.
- Utensil-lifter. J. Marcinkowski. No. 1,133,442; Mar. 30; Gaz. vol. 212; p. 1430.
- Utensil-lifter. M. Niec. No. 1,142,198; June 8; Gaz. vol. 215; p. 428.
- Uterine applicator. A. Fiessler. No. 1,129,657; Feb. 23; Gaz. vol. 211; p. 1171.
- Uterine supporter. D. G. Carey. No. 1,162,568; Nov. 30; Gaz. vol. 220; p. 1637.
- Uterine supporter. Tamponade. W. B. Cranston. No. 1,123,994; Jan. 5; Gaz. vol. 210; p. 269.
- Uterus-supporter. O. Fleisch. No. 1,164,275; Dec. 14; Gaz. vol. 221; p. 583.
- Vaccine-container. P. S. Pittenger. No. 1,161,725; Nov. 23; Gaz. vol. 220; p. 1298.
- Vacuum-bottles and other devices, Casing for. F. E. Carlson. No. 1,132,512; Mar. 16; Gaz. vol. 212; p. 1010.
- Vacuum-can. E. Norton. No. 1,133,999; Mar. 30; Gaz. vol. 212; p. 1624.
- Vacuum-cleaner. A. Boogher. No. 1,144,931; June 29; Gaz. vol. 215; p. 1468.
- Vacuum-cleaner. G. Clements. No. 1,129,274; Feb. 23; Gaz. vol. 211; p. 1038.
- Vacuum-cleaner. G. Clements. No. 1,145,555; July 6; Gaz. vol. 216; p. 202.
- Vacuum-cleaner. J. B. De Costa. No. 1,141,321; June 1; Gaz. vol. 215; p. 84.
- Vacuum-cleaner. J. J. Duffie. No. 1,133,543; Mar. 30; Gaz. vol. 212; p. 1467.
- Vacuum-cleaner. E. A. Hunt. No. 1,136,136; Apr. 20; Gaz. vol. 213; p. 868.
- Vacuum-cleaner. J. Keller and J. H. Templin. No. 1,152,025; Aug. 31; Gaz. vol. 217; p. 1510.
- Vacuum-cleaner. W. H. Keller. No. 1,143,833; June 22; Gaz. vol. 215; p. 1061.
- Vacuum-cleaner. J. W. Smith. No. 1,128,630; Feb. 16; Gaz. vol. 211; p. 777.
- Vacuum-cleaner. R. R. Smith. No. 1,140,294; May 18; Gaz. vol. 214; p. 977.
- Vacuum-cleaner. G. Supanz. No. 1,134,294; Apr. 6; Gaz. vol. 213; p. 77.
- Vacuum-cleaner. E. F. Swanson. No. 1,160,786; Nov. 16; Gaz. vol. 220; p. 922.
- Vacuum-cleaner. J. H. Taylor. No. 1,157,456; Oct. 19; Gaz. vol. 219; p. 801.
- Vacuum-cleaner. J. M. Winter. No. 1,146,540; July 13; Gaz. vol. 216; p. 570.
- Vacuum-cleaner. M. S. Wright. No. 1,141,597; June 1; Gaz. vol. 215; p. 182.
- Vacuum cleaner and blower, Combined. E. L. B. Zimmer. No. 1,124,573; Jan. 12; Gaz. vol. 210; p. 524.
- Vacuum-cleaner bag, Self-cleaning. E. L. B. Zimmer. No. 1,124,574; Jan. 12; Gaz. vol. 210; p. 524.
- Vacuum-cleaner, Electric. R. H. and J. Morrow. No. 1,142,353; June 8; Gaz. vol. 215; p. 481.
- Vacuum-cleaner for rugs. A. D. Seaman. No. 1,149,169; Aug. 3; Gaz. vol. 217; p. 240.
- Vacuum-cleaner, Handhold. J. B. Kirby. No. 1,156,235; Oct. 12; Gaz. vol. 219; p. 340.
- Vacuum-cleaner tools, Air control and sight attachment for. E. L. B. Zimmer. No. 1,124,575; Jan. 12; Gaz. vol. 210; p. 525.
- Vacuum-cleaners, Dust-collector for. W. H. Keller. No. 1,127,896; Feb. 9; Gaz. vol. 211; p. 474.
- Vacuum-cleaners, Pumping mechanism for. H. Eckel. No. 1,138,464; May 4; Gaz. vol. 214; p. 262.
- Vacuum cleaning and other purposes, Hydraulic air-ejector for. C. Morton. No. 1,135,834; Apr. 13; Gaz. vol. 213; p. 664.
- Vacuum cleaning apparatus. H. Small. No. 1,130,114; Mar. 2; Gaz. vol. 212; p. 94.
- Vacuum cleaning apparatus. W. G. Trautman. No. 1,153,734; Sept. 14; Gaz. vol. 218; p. 523.
- Vacuum cleaning apparatus. T. Wiedemann and J. H. Templin. No. 1,145,047; July 6; Gaz. vol. 216; p. 26.
- Vacuum cleaning apparatus. T. Wiedemann and J. H. Templin. No. 1,145,048; July 6; Gaz. vol. 216; p. 27.
- Vacuum cleaning apparatus, Cleaning screens of. W. S. Sutton. No. 1,157,131; Oct. 19; Gaz. vol. 219; p. 686.
- Vacuum cleaning-machine. G. Brand. No. 1,136,890; Apr. 20; Gaz. vol. 213; p. 1077.
- Vacuum cleaning-machine. G. Brand. No. 1,145,112; July 6; Gaz. vol. 216; p. 49.
- Vacuum cleaning-machine. O. Drake. No. 1,126,732; Feb. 2; Gaz. vol. 211; p. 23.
- Vacuum cleaning system. F. J. Matchette and R. Radatz. No. 1,150,950; Aug. 24; Gaz. vol. 217; p. 1096.
- Vacuum cleaning systems, Governor for. A. Lotz and C. W. Bailey. No. 1,128,615; Feb. 16; Gaz. vol. 211; p. 772.
- Vacuum-creating device. G. C. Weiss. No. 1,145,725; July 6; Gaz. vol. 216; p. 263.
- Vacuum-creator. E. M. Barnes. No. 1,152,473; Sept. 7; Gaz. vol. 218; p. 33.
- Vacuum-creator. C. H. Best. No. 1,155,201; Sept. 28; Gaz. vol. 218; p. 1091.
- Vacuum-drier. H. E. Allen and F. T. Mitchell. No. 1,165,306; Dec. 21; Gaz. vol. 221; p. 984.
- Vacuum-drier. F. J. Stokes. No. 1,151,417; Aug. 24; Gaz. vol. 217; p. 1252.
- Vacuum evaporating apparatus. E. A. Newhall. No. 1,149,939; Aug. 10; Gaz. vol. 217; p. 623.
- Vacuum-gage. I. Langmuir. No. 1,126,233; Jan. 26; Gaz. vol. 210; p. 1187.
- Vacuum heating and cleaning system, Combined. J. L. Fitts and J. F. Hale. No. 1,162,151; Nov. 30; Gaz. vol. 220; p. 1494.
- Vacuum in a metallic-walled chamber and sealing the same, Producing a. F. W. Bartlett. No. 1,150,242; Aug. 17; Gaz. vol. 217; p. 794.
- Vacuum-indicating-gage. S. W. Farnsworth. No. 1,163,989; Dec. 14; Gaz. vol. 221; p. 484.
- Vacuum-indicator. G. F. Gray. No. 1,154,306; Sept. 21; Gaz. vol. 218; p. 755.
- Vacuum-machine, Rotary. W. E. Shore. No. 1,149,961; Aug. 10; Gaz. vol. 217; p. 631.
- Vacuum massage-cup. F. M. Kleine. No. 1,128,459; Feb. 16; Gaz. vol. 211; p. 718.
- Vacuum or suction cleaning apparatus, Attachment for. G. D. Roedels. No. 1,145,083; July 6; Gaz. vol. 216; p. 40.
- Vacuum or suction sweeper. H. L. Boyle. No. 1,124,997; Jan. 12; Gaz. vol. 210; p. 675.
- Vacuum-pan. C. P. Grimwood. No. 1,126,757; Feb. 2; Gaz. vol. 211; p. 33.
- Vacuum-producing apparatus. J. Priest. No. 1,131,082; Mar. 9; Gaz. vol. 212; p. 464.
- Vacuum-producing device. J. McAlear. No. 1,148,601; Aug. 3; Gaz. vol. 217; p. 42.
- Vacuum-producing device. J. McAlear. No. 1,148,603; Aug. 3; Gaz. vol. 217; p. 43.
- Vacuum-producing method and means. A. H. Pfund. No. 1,146,019; July 13; Gaz. vol. 216; p. 386.
- Vacuum-receptacles, Machine for the manufacture of. W. R. Burrows. No. 1,156,971; Oct. 19; Gaz. vol. 219; p. 629.
- Vacuum regulation. H. C. Snook and E. W. Kelly. No. 1,143,327; June 15; Gaz. vol. 215; p. 863.
- Vacuum renovating apparatus. J. H. Templin. No. 1,139,084; May 11; Gaz. vol. 214; p. 518.
- Vacuum stripping apparatus. W. Birchall. No. 1,160,825; Nov. 16; Gaz. vol. 220; p. 937.
- Vacuum-tubes, Means for cooling. H. F. Waite. No. 1,125,223; Jan. 19; Gaz. vol. 210; p. 792.
- Vaginal irrigator. F. Moulton. No. 1,159,250; Nov. 2; Gaz. vol. 220; p. 293.
- Valise, Dresser-. G. Cohn. No. 1,137,579; Apr. 27; Gaz. vol. 213; p. 1360.
- Valve. R. Abell. No. 1,132,542; Mar. 23; Gaz. vol. 212; p. 1067.
- Valve. A. Absalom and W. H. Coley. No. 1,160,118; Nov. 16; Gaz. vol. 220; p. 687.
- Valve. C. S. Allender and G. G. McNee. No. 1,131,024; Mar. 9; Gaz. vol. 212; p. 446.
- Valve. C. N. Allerdinger. No. 1,138,721; May 11; Gaz. vol. 214; p. 388.
- Valve. W. E. Arndt. No. 1,138,613; May 11; Gaz. vol. 214; p. 349.
- Valve. W. Ballard. No. 1,140,017; May 18; Gaz. vol. 214; p. 882.
- Valve. W. Barenz. No. 1,151,751; Aug. 31; Gaz. vol. 217; p. 1414.
- Valve. R. P. Barnstead. No. 1,140,653; May 25; Gaz. vol. 214; p. 1140.
- Valve. A. J. Barr. No. 1,158,773; Nov. 2; Gaz. vol. 220; p. 127.
- Valve. R. J. Barrett. No. 1,128,092; Feb. 9; Gaz. vol. 211; p. 542.
- Valve. J. E. Beckman. No. 1,150,573; Aug. 17; Gaz. vol. 217; p. 909.
- Valve. W. Birkbeck and W. H. Ashman. No. 1,138,531; May 4; Gaz. vol. 214; p. 283.
- Valve. G. P. Bopp. No. 1,156,049; Oct. 12; Gaz. vol. 219; p. 278.
- Valve. W. C. Boy. No. 1,152,280; Aug. 31; Gaz. vol. 217; p. 1597.
- Valve. O. Brisbois. No. 1,140,332; May 18; Gaz. vol. 214; p. 991.
- Valve. A. A. Britt. No. 1,154,577; Sept. 21; Gaz. vol. 218; p. 849.
- Valve. A. H. Caldwell. No. 1,123,844; Jan. 5; Gaz. vol. 210; p. 220.
- Valve. L. M. Carr and P. J. Dugan. No. 1,162,570; Nov. 30; Gaz. vol. 220; p. 1637.
- Valve. S. D. Chapman. No. 1,139,162; May 11; Gaz. vol. 214; p. 546.
- Valve. J. Cloos. No. 1,156,977; Oct. 19; Gaz. vol. 219; p. 631.
- Valve. A. Coats. No. 1,150,576; Aug. 17; Gaz. vol. 217; p. 910.
- Valve. J. J. Coll. No. 1,152,604; Sept. 7; Gaz. vol. 218; p. 82.
- Valve. M. E. Comp. No. 1,145,831; July 6; Gaz. vol. 216; p. 299.
- Valve. W. E. Copithorn. No. 1,159,475; Nov. 9; Gaz. vol. 220; p. 404.

Alphabetical list of inventions—Continued.

- Valve. N. B. Creighton. No. 1,131,475; Mar. 9; Gaz. vol. 212; p. 601.
- Valve. N. B. Creighton. No. 1,140,359; May 25; Gaz. vol. 214; p. 1035.
- Valve. W. B. Cullum. No. 1,146,850; July 20; Gaz. vol. 216; p. 696.
- Valve. W. H. Daniels. No. 1,134,109; Apr. 6; Gaz. vol. 213; p. 9.
- Valve. W. M. Davis. No. 1,136,539; Apr. 20; Gaz. vol. 213; p. 971.
- Valve. R. Delaunay-Belleville. No. 1,164,268; Dec. 14; Gaz. vol. 221; p. 580.
- Valve. J. Desmond. No. 1,144,758; June 29; Gaz. vol. 215; p. 1410.
- Valve. W. A. Elder and W. P. Paget. No. 1,125,675; Jan. 19; Gaz. vol. 210; p. 953.
- Valve. R. L. Ellery. No. 1,141,870; June 1; Gaz. vol. 215; p. 272.
- Valve. W. S. Fairhurst. No. 1,153,051; Sept. 7; Gaz. vol. 218; p. 244.
- Valve. A. J. Fausek and C. A. Frahm. No. 1,128,302; Feb. 16; Gaz. vol. 211; p. 665.
- Valve. G. J. Ferguson. No. 1,152,888; Sept. 7; Gaz. vol. 218; p. 187.
- Valve. H. Fielder. No. 1,124,881; Jan. 12; Gaz. vol. 210; p. 635.
- Valve. E. Fisher. No. 1,157,641; Oct. 19; Gaz. vol. 219; p. 861.
- Valve. E. Fisher. No. 1,157,642; Oct. 19; Gaz. vol. 219; p. 862.
- Valve. J. Foster. No. 1,147,387; July 20; Gaz. vol. 216; p. 885.
- Valve. J. L. Fuller. No. 1,151,776; Aug. 31; Gaz. vol. 217; p. 1423.
- Valve. J. W. Gamble. No. 1,152,017; Aug. 31; Gaz. vol. 217; p. 1506.
- Valve. E. E. Gold. No. 1,137,129; Apr. 27; Gaz. vol. 213; p. 1201.
- Valve. F. W. Hodges. No. 1,161,861; Nov. 30; Gaz. vol. 220; p. 1392.
- Valve. C. M. Holley and J. List. No. 1,166,210; Dec. 28; Gaz. vol. 221; p. 1343.
- Valve. M. F. Hutchison. No. 1,132,095; Mar. 16; Gaz. vol. 212; p. 856.
- Valve. G. W. Isley. No. 1,155,576; Oct. 5; Gaz. vol. 219; p. 87.
- Valve. A. Jackson and F. C. Drescher. No. 1,126,766; Feb. 2; Gaz. vol. 211; p. 36.
- Valve. A. Jaquish. No. 1,139,290; May 11; Gaz. vol. 214; p. 588.
- Valve. E. F. Johnson. No. 1,131,382; Mar. 9; Gaz. vol. 212; p. 568.
- Valve. D. D. Kimball. No. 1,152,026; Aug. 31; Gaz. vol. 217; p. 1510.
- Valve. E. King. No. 1,157,163; Oct. 19; Gaz. vol. 219; p. 697.
- Valve. W. F. Kolb. No. 1,133,041; Mar. 23; Gaz. vol. 212; p. 1253.
- Valve. T. K. Lemon. No. 1,130,989; Mar. 9; Gaz. vol. 212; p. 433.
- Valve. H. Lentz. No. 1,133,650; Mar. 30; Gaz. vol. 212; p. 1505.
- Valve. B. Lewis. No. 1,156,535; Oct. 12; Gaz. vol. 219; p. 446.
- Valve. R. M. Lickley. No. 1,160,916; Nov. 16; Gaz. vol. 220; p. 968.
- Valve. F. E. Lietz and J. Reiners. No. 1,149,845; Aug. 10; Gaz. vol. 217; p. 590.
- Valve. P. Lord. No. 1,150,779; Aug. 17; Gaz. vol. 217; p. 978.
- Valve. P. G. MacGregor. No. 1,142,343; June 8; Gaz. vol. 215; p. 479.
- Valve. W. C. Marsh. No. 1,151,494; Aug. 24; Gaz. vol. 217; p. 1280.
- Valve. W. C. Marsh. No. 1,165,197; Dec. 21; Gaz. vol. 221; p. 948.
- Valve. F. H. Mason. No. 1,146,009; July 13; Gaz. vol. 216; p. 381.
- Valve. F. H. Mason. No. 1,146,011; July 13; Gaz. vol. 216; p. 382.
- Valve. F. H. Mason. No. 1,146,012; July 13; Gaz. vol. 216; p. 383.
- Valve. J. McAlear. No. 1,148,602; Aug. 3; Gaz. vol. 217; p. 43.
- Valve. D. T. McCarthy. No. 1,149,527; Aug. 10; Gaz. vol. 217; p. 473.
- Valve. J. F. McElroy. No. 1,157,235; Oct. 19; Gaz. vol. 219; p. 723.
- Valve. J. R. McGiffert. No. 1,160,300; Nov. 16; Gaz. vol. 220; p. 750.
- Valve. T. R. McKnight. No. 1,160,302; Nov. 16; Gaz. vol. 220; p. 750.
- Valve. W. E. Merritt. No. 1,142,723; June 8; Gaz. vol. 215; p. 608.
- Valve. D. D. Miles, Jr. No. 1,155,602; Oct. 5; Gaz. vol. 219; p. 96.
- Valve. C. O. Nilsson. No. 1,135,838; Apr. 13; Gaz. vol. 213; p. 665.
- Valve. E. O'Malley. No. 1,141,882; June 1; Gaz. vol. 215; p. 277.
- Valve. E. O'Malley. No. 1,149,594; Aug. 10; Gaz. vol. 217; p. 496.
- Valve. G. Obert. No. 1,147,968; July 27; Gaz. vol. 216; p. 1114.
- Valve. J. L. Osborne. No. 1,157,956; Oct. 26; Gaz. vol. 219; p. 1038.
- Valve. F. M. Patterson. No. 1,144,968; June 29; Gaz. vol. 215; p. 1482.
- Valve. F. M. Patterson. No. 1,148,119; July 27; Gaz. vol. 216; p. 1171.
- Valve. C. von Philip. No. 1,157,196; Oct. 19; Gaz. vol. 219; p. 709.
- Valve. L. A. Platt. No. 1,143,225; June 15; Gaz. vol. 215; p. 828.
- Valve. B. S. Price. No. 1,140,712; May 25; Gaz. vol. 214; p. 1158.
- Valve. J. H. Raymaker. No. 1,145,703; July 6; Gaz. vol. 216; p. 255.
- Valve. O. P. Robinson. No. 1,123,801; Jan. 5; Gaz. vol. 210; p. 206.
- Valve. H. F. Rosencrans. No. 1,143,999; June 22; Gaz. vol. 215; p. 1118.
- Valve. E. L. Russell. No. 1,153,708; Sept. 14; Gaz. vol. 218; p. 515.
- Valve. W. M. Saefke. No. 1,153,343; Sept. 14; Gaz. vol. 218; p. 384.
- Valve. W. R. Savage. No. 1,154,811; Sept. 28; Gaz. vol. 218; p. 956.
- Valve. G. Schmidt. No. 1,140,619; May 25; Gaz. vol. 214; p. 1128.
- Valve. A. W. Schramm. No. 1,163,471; Dec. 7; Gaz. vol. 221; p. 257.
- Valve. F. Schreidt. No. 1,165,026; Dec. 21; Gaz. vol. 221; p. 886.
- Valve. E. M. Scoville. No. 1,161,257; Nov. 23; Gaz. vol. 220; p. 1136.
- Valve. L. Sennett. No. 1,164,879; Dec. 21; Gaz. vol. 221; p. 835.
- Valve. W. E. Shelp. No. 1,145,853; July 6; Gaz. vol. 216; p. 307.
- Valve. L. A. Sherman. No. 1,143,865; June 22; Gaz. vol. 215; p. 1071.
- Valve. A. E. Smith. No. 1,123,813; Jan. 5; Gaz. vol. 210; p. 210.
- Valve. L. C. Steele. No. 1,138,994; May 11; Gaz. vol. 214; p. 486.
- Valve. T. M. Stewart. No. 1,132,886; Mar. 23; Gaz. vol. 212; p. 1194.
- Valve. C. E. Streckler. No. 1,144,875; June 29; Gaz. vol. 215; p. 1452.
- Valve. W. S. Sutton. No. 1,140,630; May 25; Gaz. vol. 214; p. 1132.
- Valve. E. O. Thomason. No. 1,164,033; Dec. 14; Gaz. vol. 221; p. 501.
- Valve. A. Thomson. No. 1,158,869; Nov. 2; Gaz. vol. 220; p. 162.
- Valve. E. G. Watrous. No. 1,143,669; June 22; Gaz. vol. 215; p. 1005.
- Valve. C. Weston. No. 1,149,236; Aug. 10; Gaz. vol. 217; p. 368.
- Valve. O. L. Whiteman. No. 1,164,150; Dec. 14; Gaz. vol. 221; p. 540.
- Valve. J. S. Whiting. No. 1,141,028; May 25; Gaz. vol. 214; p. 1269.
- Valve. O. R. Wikander. No. 1,147,350; July 20; Gaz. vol. 216; p. 870.
- Valve. D. J. Wilson. No. 1,151,230; Aug. 24; Gaz. vol. 217; p. 1192.
- Valve. N. E. Woods. No. 1,156,963; Oct. 19; Gaz. vol. 219; p. 626.
- Valve. W. F. Yergens. No. 1,166,300; Dec. 28; Gaz. vol. 221; p. 1376.
- Valve actuating and adjusting mechanism. E. L. Russell. No. 1,153,707; Sept. 14; Gaz. vol. 218; p. 514.
- Valve-actuating device. H. Z. Nelson. No. 1,137,517; Apr. 27; Gaz. vol. 213; p. 1339.
- Valve-actuating mechanism. J. A. Johnson. No. 1,147,325; July 20; Gaz. vol. 216; p. 860.
- Valve-actuating mechanism for carbid-receptacles. J. A. and T. N. Johnson. No. 1,130,906; Mar. 9; Gaz. vol. 212; p. 405.
- Valve-actuating mechanism for water-closet apparatus. W. U. Griffiths. No. 1,149,258; Aug. 10; Gaz. vol. 217; p. 377.
- Valve adjuster and driver. E. L. Russell. No. 1,153,709; Sept. 14; Gaz. vol. 218; p. 515.
- Valve adjuster and driver. E. L. Russell. No. 1,153,710; Sept. 14; Gaz. vol. 218; p. 516.
- Valve adjuster and driver. E. L. Russell. No. 1,153,711; Sept. 14; Gaz. vol. 218; p. 516.
- Valve-adjuster for internal-combustion engines, Automatic. H. A. Myers. No. 1,134,695; Apr. 6; Gaz. vol. 213; p. 224.
- Valve, Air-. W. E. Hedger. No. 1,126,464; Jan. 26; Gaz. vol. 210; p. 1268.
- Valve, Air-controlling. H. L. Rider. No. 1,131,420; Mar. 9; Gaz. vol. 212; p. 582.
- Valve, Air-signal. E. J. Ericsson. No. 1,133,116; Mar. 23; Gaz. vol. 212; p. 1279.
- Valve, Air-suction. H. P. Gray. No. 1,158,679; Nov. 2; Gaz. vol. 220; p. 95.
- Valve, Air-vent. W. Shurtleff. No. 1,162,661; Nov. 30; Gaz. vol. 220; p. 1665.

Alphabetical list of inventions—Continued.

- Valve, Alarm-check. A. C. Rowley. No. 1,137,025; Apr. 27; Gaz. vol. 213; p. 1163.
- Valve and control, Positive automatic gas safety-. W. A. Dayenport. No. 1,142,676; June 8; Gaz. vol. 215; p. 594.
- Valve and drain, Combined. D. A. Leahy. No. 1,146,179; July 13; Gaz. vol. 216; p. 442.
- Valve and igniter, Gas control. C. J. Muehlmann. No. 1,144,427; June 29; Gaz. vol. 215; p. 1298.
- Valve and indicating mechanism, Air-. H. B. Ashelman and J. S. Johnson. No. 1,140,937; May 25; Gaz. vol. 214; p. 1239.
- Valve and oiling system therefor for explosive-engines, Rotary. A. A. Woloff. No. 1,166,397; Dec. 28; Gaz. vol. 221; p. 1410.
- Valve and packing for the same, Piston-. J. T. Willson. No. 1,143,009; June 15; Gaz. vol. 215; p. 750.
- Valve and pressure-gage, Combined safety-. E. B. Keith. No. 1,128,327; Feb. 16; Gaz. vol. 211; p. 673.
- Valve and tire-signal, Safety-. H. E. Van Ness. No. 1,162,668; Nov. 30; Gaz. vol. 220; p. 1668.
- Valve and valve-gear of internal-combustion engines. L. Wygodsky. No. 1,156,123; Oct. 12; Gaz. vol. 219; p. 304.
- Valve apparatus, Pneumatic. G. A. Hanly. No. 1,152,170; Sept. 7; Gaz. vol. 218; p. 158.
- Valve arrangement for internal-combustion engines. G. Dauber. No. 1,151,926; Aug. 31; Gaz. vol. 217; p. 1475.
- Valve, Auto gas-. M. Goldberg. No. 1,146,062; July 13; Gaz. vol. 216; p. 401.
- Valve, Automatic. J. Diners. No. 1,138,093; May 4; Gaz. vol. 214; p. 131.
- Valve, Automatic. T. M. Eynon. No. 1,148,160; July 27; Gaz. vol. 216; p. 1184.
- Valve, Automatic. H. O. Knapp. No. 1,134,621; Apr. 6; Gaz. vol. 213; p. 196.
- Valve, Automatic. M. J. Loftus. No. 1,152,192; Aug. 31; Gaz. vol. 217; p. 1567.
- Valve, Automatic. W. P. Skiffington. No. 1,148,805; Aug. 3; Gaz. vol. 217; p. 116.
- Valve, Automatic. F. E. Woodruff and W. K. Bishop. No. 1,140,429; May 25; Gaz. vol. 214; p. 1060.
- Valve, Automatic alarm-. E. F. Shipman. No. 1,125,407; Jan. 19; Gaz. vol. 210; p. 859.
- Valve, Automatic brake-. G. P. Thurber. No. 1,142,383; June 8; Gaz. vol. 215; p. 493.
- Valve, Automatic check-. E. W. Shaw. No. 1,136,840; Apr. 20; Gaz. vol. 213; p. 1060.
- Valve, Automatic control cut-off. W. F. Roach. No. 1,141,146; June 1; Gaz. vol. 215; p. 19.
- Valve, Automatic drain or relief. J. H. Holland. No. 1,124,437; Jan. 12; Gaz. vol. 210; p. 476.
- Valve, Automatic expansion-. G. P. Carroll and F. N. Roehrich. No. 1,137,051; Apr. 27; Gaz. vol. 213; p. 1172.
- Valve, Automatic gas-. F. J. Schmidt. No. 1,126,299; Jan. 26; Gaz. vol. 210; p. 1209.
- Valve, Automatic governor-. I. Defoy. No. 1,152,491; Sept. 7; Gaz. vol. 218; p. 39.
- Valve, Automatic gravity-. W. J. and H. C. Doan. No. 1,156,837; Oct. 12; Gaz. vol. 219; p. 552.
- Valve, Automatic plate-. R. Meyer. (Reissue.) No. 1,39,991; Oct. 12; Gaz. vol. 219; p. 565.
- Valve, Automatic pressure-reducing. W. H. Gleeson. No. 1,147,937; July 27; Gaz. vol. 216; p. 1103.
- Valve, Automatic pressure-reducing and throttle. W. H. Gleeson. No. 1,151,262; Aug. 24; Gaz. vol. 217; p. 1202.
- Valve, Automatic safety-. G. F. Wehmann and L. G. Wulbern. No. 1,164,436; Dec. 14; Gaz. vol. 221; p. 640.
- Valve, Automatic shut-off. F. C. Schiele. No. 1,133,506; Mar. 30; Gaz. vol. 212; p. 1452.
- Valve, Automatic shut-off. H. H. Southworth and G. A. Gase. No. 1,139,462; May 11; Gaz. vol. 214; p. 650.
- Valve, Automatic shut-off. H. H. Southworth and G. A. Gase. No. 1,162,317; Nov. 30; Gaz. vol. 220; p. 1553.
- Valve, Automatic stop and check. N. Hubbard. No. 1,153,226; Sept. 14; Gaz. vol. 218; p. 342.
- Valve, Automatic train-pipe. F. H. Foster. No. 1,164,711; Dec. 21; Gaz. vol. 221; p. 776.
- Valve, Automatically-registering. J. N. Wingett. No. 1,131,885; Mar. 16; Gaz. vol. 212; p. 780.
- Valve, Automobile engine-lock. J. G. Ritz. No. 1,141,006; May 25; Gaz. vol. 214; p. 1263.
- Valve, Auxiliary air-intake. J. Hedges and W. Ham-mack. No. 1,142,424; June 8; Gaz. vol. 215; p. 509.
- Valve, Balance slide-. H. P. Robinson. No. 1,140,188; May 18; Gaz. vol. 214; p. 942.
- Valve, Balanced. W. M. Fulton. No. 1,153,681; Sept. 14; Gaz. vol. 218; p. 504.
- Valve, Balanced slide. M. A. Knapp. No. 1,147,872; July 27; Gaz. vol. 216; p. 1080.
- Valve-ball. C. Pfau. No. 1,129,226; Feb. 23; Gaz. vol. 211; p. 1021.
- Valve, Ball check-. G. Graham. No. 1,158,483; Nov. 2; Gaz. vol. 220; p. 25.
- Valve, Blow-off. H. Horkman. No. 1,130,286; Mar. 2; Gaz. vol. 212; p. 155.
- Valve, Blow-off. S. Kahn. No. 1,166,221; Dec. 28; Gaz. vol. 221; p. 1347.
- Valve, Blow-off. R. C. Sermon. No. 1,133,188; Mar. 23; Gaz. vol. 212; p. 1305.
- Valve, Bottle-. G. Jackson. No. 1,154,638; Sept. 28; Gaz. vol. 218; p. 898.
- Valve, Brake-control. W. V. Turner. No. 1,145,044; July 6; Gaz. vol. 216; p. 25.
- Valve, Brake-pipe vent-. W. V. Turner and P. H. Donovan. No. 1,125,214; Jan. 19; Gaz. vol. 210; p. 788.
- Valve, Butterfly-. W. A. Doble. No. 1,161,460; Nov. 23; Gaz. vol. 220; p. 1208.
- Valve, Butterfly-. F. Henneböhle. No. 1,152,176; Aug. 31; Gaz. vol. 217; p. 1562.
- Valve-cap. C. E. Lloyd. No. 1,155,253; Sept. 28; Gaz. vol. 218; p. 1107.
- Valve-catch. G. F. Voigt. No. 1,161,554; Nov. 23; Gaz. vol. 220; p. 1241.
- Valve, Check-. J. C. and A. C. Benson. No. 1,147,292; July 20; Gaz. vol. 216; p. 849.
- Valve, Check-. A. A. Bowser. No. 1,147,840; July 27; Gaz. vol. 216; p. 1069.
- Valve, Check-. J. B. Garber. No. 1,160,707; Nov. 16; Gaz. vol. 220; p. 897.
- Valve, Check-. G. A. Gase. No. 1,139,455; May 11; Gaz. vol. 214; p. 647.
- Valve, Check-. G. A. Gase. No. 1,142,513; June 8; Gaz. vol. 215; p. 540.
- Valve, Check-. G. A. Gase. No. 1,164,342; Dec. 14; Gaz. vol. 221; p. 608.
- Valve, Check-. F. E. Rice. No. 1,164,869; Dec. 21; Gaz. vol. 221; p. 832.
- Valve, Check-. M. Smolensky. No. 1,147,343; July 20; Gaz. vol. 216; p. 867.
- Valve-cleaner. B. W. Massey and T. J. Goodwin. No. 1,159,977; Nov. 9; Gaz. vol. 220; p. 584.
- Valve, Closet-tank. M. Buckley. No. 1,149,722; Aug. 10; Gaz. vol. 217; p. 645.
- Valve-closing means. F. Hirschfeld and R. Harburger. No. 1,140,821; May 25; Gaz. vol. 214; p. 1196.
- Valve, Combined cut-off and relief. S. W. Luitwieler. No. 1,152,114; Aug. 31; Gaz. vol. 217; p. 1541.
- Valve, Compression stop and waste. C. Walker. No. 1,138,160; May 4; Gaz. vol. 214; p. 154.
- Valve connection. A. C. Kelley. No. 1,151,017; Aug. 24; Gaz. vol. 217; p. 1118.
- Valve connector, Air-. A. J. Schermerhorn. No. 1,131,557; Mar. 9; Gaz. vol. 212; p. 628.
- Valve construction for pneumatic players. W. C. Stephenson. No. 1,160,008; Nov. 9; Gaz. vol. 220; p. 595.
- Valve construction, Globe-. J. C. Coltrin. No. 1,160,139; Nov. 16; Gaz. vol. 220; p. 694.
- Valve-controller. D. C. Prescott. No. 1,142,054; June 8; Gaz. vol. 215; p. 377.
- Valve, Controlling-. A. O. Curry. No. 1,155,217; Sept. 28; Gaz. vol. 218; p. 1095.
- Valve, Controlling-. L. E. Jones, J. W. Breakey, and W. F. Casey. No. 1,139,876; May 18; Gaz. vol. 214; p. 832.
- Valve, Controlling-. G. Mellen. No. 1,165,616; Dec. 28; Gaz. vol. 221; p. 1132.
- Valve-controlling device. C. A. Parsons, A. Q. Carnegie, and G. L. Parsons. No. 1,141,824; June 1; Gaz. vol. 215; p. 258.
- Valve-controlling mechanism. E. M. Jones. No. 1,129,204; Feb. 23; Gaz. vol. 211; p. 1013.
- Valve-controlling mechanism for internal-combustion engines. L. H. Cobb. No. 1,155,044; Sept. 28; Gaz. vol. 218; p. 1034.
- Valve-controlling mechanism, Throttle-. F. E. Judd. No. 1,139,685; May 18; Gaz. vol. 214; p. 765.
- Valve-coupling. C. Mercer. No. 1,163,435; Dec. 7; Gaz. vol. 221; p. 245.
- Valve, Cut-off. H. H. Sparr and L. H. Neujahr. No. 1,160,664; Nov. 16; Gaz. vol. 220; p. 880.
- Valve device. E. L. Delany. No. 1,144,757; June 29; Gaz. vol. 215; p. 1410.
- Valve device. J. H. Kinealy. No. 1,127,018; Feb. 2; Gaz. vol. 211; p. 125.
- Valve device, Automatic. C. N. Shephard. No. 1,135,063; Apr. 13; Gaz. vol. 213; p. 395.
- Valve device, Control-. W. V. Turner. No. 1,160,468; Nov. 16; Gaz. vol. 220; p. 807.
- Valve device, Emergency-. W. V. Turner. No. 1,145,045; July 6; Gaz. vol. 216; p. 26.
- Valve device for internal-combustion engines. M. G. Chandler. No. 1,128,757; Feb. 16; Gaz. vol. 211; p. 820.
- Valve device for internal-combustion engines. M. G. Chandler. No. 1,139,101; May 11; Gaz. vol. 214; p. 525.
- Valve device, Locomotive drifting-. F. W. Martin. No. 1,163,100; Dec. 7; Gaz. vol. 221; p. 127.
- Valve device, Relief-. W. V. Turner. No. 1,139,602; May 18; Gaz. vol. 214; p. 734.
- Valve device, Retarded-release triple-. W. V. Turner. No. 1,134,424; Apr. 6; Gaz. vol. 213; p. 124.
- Valve device, Retarded-release triple-. W. V. Turner. No. 1,134,425; Apr. 6; Gaz. vol. 213; p. 124.
- Valve device, Selecting-. W. V. Turner. No. 1,162,825; Dec. 7; Gaz. vol. 221; p. 33.
- Valve, device, Trip-. E. R. Hill. No. 1,133,644; Mar. 30; Gaz. vol. 212; p. 1503.

Alphabetical list of inventions—Continued.

- Valve device, Triple-. P. H. Donovan. No. 1,134,442; Apr. 6; Gaz. vol. 213; p. 131.
- Valve device, Triple-. W. V. Turner. No. 1,131,180; Mar. 9; Gaz. vol. 212; p. 498.
- Valve device, Triple-. W. V. Turner. No. 1,136,063; Apr. 20; Gaz. vol. 213; p. 783.
- Valve, Distributing-. J. E. Englessen. No. 1,125,825; Jan. 19; Gaz. vol. 210; p. 1006.
- Valve, Distributing-. C. Garbe. No. 1,124,127; Jan. 5; Gaz. vol. 210; p. 316.
- Valve, Double oppositely-disposed. A. R. Trist. No. 1,133,682; Mar. 30; Gaz. vol. 212; p. 1519.
- Valve, Drainage-. J. R. Reniff. No. 1,127,282; Feb. 2; Gaz. vol. 211; p. 217.
- Valve, Drifting-. A. Ross. No. 1,145,798; July 6; Gaz. vol. 216; p. 288.
- Valve, Dry-. A. C. Rowley. No. 1,162,809; Dec. 7; Gaz. vol. 221; p. 27.
- Valve, Dry-pipe. T. P. Higgins and W. McDermott. No. 1,161,671; Nov. 23; Gaz. vol. 220; p. 1280.
- Valve, Dry-pipe. P. D. Kingberry and W. J. McCarthy. No. 1,144,849; June 29; Gaz. vol. 215; p. 1443.
- Valve, Electrically-controlled. H. G. Geissinger. No. 1,143,530; June 15; Gaz. vol. 215; p. 931.
- Valve, Emergency-. F. A. Fisher. No. 1,131,605; Mar. 9; Gaz. vol. 212; p. 645.
- Valve, Emergency sand-. J. H. McGrath. No. 1,141,131; June 1; Gaz. vol. 215; p. 14.
- Valve, Emergency stop-. C. Fleck and G. R. Magee. No. 1,125,505; Jan. 19; Gaz. vol. 210; p. 890.
- Valve, Engine-. D. Duffy. No. 1,142,316; June 8; Gaz. vol. 215; p. 468.
- Valve, Engine-. W. H. Fauber. No. 1,127,980; Feb. 9; Gaz. vol. 211; p. 502.
- Valve, Engine-. S. Rosenzweig. No. 1,125,724; Jan. 19; Gaz. vol. 210; p. 971.
- Valve, Engine-. J. C. Wendling. No. 1,166,163; Dec. 28; Gaz. vol. 221; p. 1326.
- Valve, Engine-. A. D. Whidden. No. 1,127,837; Feb. 9; Gaz. vol. 211; p. 453.
- Valve, Engineer's brake-. P. Wertz. No. 1,160,800; Nov. 16; Gaz. vol. 220; p. 928.
- Valve, Equalizing-. J. J. Niven. No. 1,142,117; June 8; Gaz. vol. 215; p. 400.
- Valve, Feed-control. T. E. Sturtevant. No. 1,127,822; Feb. 9; Gaz. vol. 211; p. 447.
- Valve, Float-. G. H. Beebe. No. 1,125,046; Jan. 19; Gaz. vol. 210; p. 727.
- Valve, Flush-. S. F. Fairbank. No. 1,135,003; Apr. 13; Gaz. vol. 213; p. 373.
- Valve, Flush-. R. E. Fivey. No. 1,132,570; Mar. 23; Gaz. vol. 212; p. 1078.
- Valve, Float-. T. F. Foley. No. 1,160,395; Nov. 16; Gaz. vol. 220; p. 782.
- Valve, Float-. J. C. Garrott. No. 1,150,513; Aug. 17; Gaz. vol. 217; p. 887.
- Valve, Float-. H. Q. Sharp. No. 1,146,599; July 13; Gaz. vol. 216; p. 590.
- Valve, Float-operated. G. E. Putnam. No. 1,142,910; June 15; Gaz. vol. 215; p. 715.
- Valve, Fluid-operated. L. F. Pigott. No. 1,145,791; July 6; Gaz. vol. 215; p. 285.
- Valve, Fluid-pressure-controlling. J. Brunker and C. A. Mattmiller. No. 1,153,759; Sept. 14; 7 Gaz. vol. 218; p. 531.
- Valve, Fluid-pressure-regulating. C. L. Bastian. No. 1,161,917; Nov. 30; Gaz. vol. 220; p. 1412.
- Valve, Flush-. T. B. Cooper and F. F. Rob. No. 1,144,109; June 22; Gaz. vol. 215; p. 1159.
- Valve, Flush-. A. N. Pasman. No. 1,126,070; Jan. 26; Gaz. vol. 210; p. 1126.
- Valve, Flush-. P. J. Pauly, Jr., and G. Tanner. No. 1,157,035; Oct. 19; Gaz. vol. 219; p. 653.
- Valve, Flush-. F. A. Schossow. No. 1,148,542; Aug. 3; Gaz. vol. 217; p. 20.
- Valve, Flush-. L. C. Vader. No. 1,145,635; July 6; Gaz. vol. 216; p. 230.
- Valve, Flush-. G. S. Vampa. No. 1,160,790; Nov. 16; Gaz. vol. 220; p. 924.
- Valve, Flushing-. R. A. Brooks. No. 1,123,477; Jan. 5; Gaz. vol. 210; p. 96.
- Valve, Flushing-. F. Haas. No. 1,143,384; June 15; Gaz. vol. 215; p. 884.
- Valve, Flushing-. E. L. Kellan. No. 1,123,753; Jan. 5; Gaz. vol. 210; p. 190.
- Valve, Flushing-. W. Nemethy. No. 1,163,442; Dec. 7; Gaz. vol. 221; p. 248.
- Valve, Flushing-. E. Richardson. No. 1,134,488; Apr. 6; Gaz. vol. 213; p. 148.
- Valve, Flushing-. C. S. C. Rock. No. 1,163,462; Dec. 7; Gaz. vol. 221; p. 254.
- Valve, Flushing-. E. G. Watrous. No. 1,162,957; Dec. 7; Gaz. vol. 221; p. 77.
- Valve, Flushing-. C. A. Wulf. No. 1,146,832; July 20; Gaz. vol. 216; p. 689.
- Valve for acetylene-generators. C. J. Clefthon. No. 1,133,618; Mar. 30; Gaz. vol. 212; p. 1494.
- Valve for air-brake apparatus, Feed-. S. G. Neal. No. 1,162,383; Nov. 30; Gaz. vol. 220; p. 1574.
- Valve for air-brake systems, Emergency and equalizing. P. Wertz. No. 1,160,801; Nov. 16; Gaz. vol. 220; p. 929.
- Valve for air-compressors. E. A. Watts. No. 1,135,476; Apr. 13; Gaz. vol. 213; p. 536.
- Valve for automatically stopping the supply of liquid to pipes upon breaking of the latter. E. Meier. No. 1,153,850; Sept. 14; Gaz. vol. 218; p. 565.
- Valve for automobile-engines, Air-. W. C. Engel. No. 1,146,931; July 20; Gaz. vol. 216; p. 725.
- Valve for bath-tubs, Waste-pipe. W. G. Newton. No. 1,134,549; Apr. 6; Gaz. vol. 213; p. 170.
- Valve for boilers, Blow-down. T. F. Clark. No. 1,126,395; Jan. 26; Gaz. vol. 210; p. 1243.
- Valve for boilers, Feed-water. H. Pongrat. No. 1,146,446; July 13; Gaz. vol. 216; p. 537.
- Valve for car-carried mechanism of train-stopping apparatus. G. E. Labit. No. 1,146,080; July 13; Gaz. vol. 216; p. 407.
- Valve for closed-system hot-water heating plants. J. C. Benes. No. 1,150,831; Aug. 17; Gaz. vol. 217; p. 997.
- Valve for conduits, Flow-controlling. L. C. Bayles. No. 1,154,962; Sept. 28; Gaz. vol. 218; p. 1007.
- Valve for down-spouts and the like. C. C. Armstrong. No. 1,134,717; Apr. 6; Gaz. vol. 213; p. 232.
- Valve for engines, Rotary. S. Hughes. No. 1,125,101; Jan. 19; Gaz. vol. 210; p. 747.
- Valve for explosion-engines, Rotary. H. E. Coffin. No. 1,126,706; Feb. 2; Gaz. vol. 211; p. 13.
- Valve for explosive-engines, Rotary. F. P. Blubaugh. No. 1,141,758; June 1; Gaz. vol. 215; p. 236.
- Valve for explosive-engines, Rotary. J. O. Heinze, Jr. No. 1,126,998; Feb. 2; Gaz. vol. 211; p. 117.
- Valve for explosive-engines, Rotary. C. E. Mead. No. 1,134,693; Apr. 6; Gaz. vol. 213; p. 222.
- Valve for fluid-pressure mains, Safety-. J. R. Cable. No. 1,139,952; May 18; Gaz. vol. 214; p. 858.
- Valve for fluid-reservoirs, Vent-. B. S. Randall. No. 1,165,901; Dec. 28; Gaz. vol. 221; p. 1231.
- Valve for flush-tanks. G. Banker. No. 1,162,209; Nov. 30; Gaz. vol. 220; p. 1514.
- Valve for flushing-tanks. E. Ferran. No. 1,134,949; Apr. 6; Gaz. vol. 213; p. 308.
- Valve for flushing-tanks and the like. W. A. Williams. No. 1,129,533; Feb. 23; Gaz. vol. 211; p. 1129.
- Valve for flushing toilet-bowls. N. Larocca. No. 1,145,249; July 6; Gaz. vol. 216; p. 96.
- Valve for fuel-oil tanks, Locking. W. H. Smith. No. 1,124,965; Jan. 12; Gaz. vol. 210; p. 664.
- Valve for gas-burners. F. V. Detwiler. No. 1,154,177; Sept. 21; Gaz. vol. 218; p. 711.
- Valve for gas-engines. E. Berliner and H. D. Chapman. No. 1,139,807; May 18; Gaz. vol. 214; p. 818.
- Valve for gas-engines. G. H. Johnston. No. 1,124,911; Jan. 12; Gaz. vol. 210; p. 645.
- Valve for gas-engines, Rotary. G. B. Briney. No. 1,154,479; Sept. 21; Gaz. vol. 218; p. 814.
- Valve for gas-engines, Rotary. E. L. Faber. No. 1,128,965; Feb. 16; Gaz. vol. 211; p. 896.
- Valve for gas-engines, Rotary. L. C. Kemming. No. 1,134,461; Apr. 6; Gaz. vol. 213; p. 138.
- Valve for gas, Pressure-reducing. L. Lemoine. No. 1,145,601; July 6; Gaz. vol. 216; p. 218.
- Valve for heating systems. J. S. Brennan. No. 1,158,893; Nov. 2; Gaz. vol. 220; p. 170.
- Valve for heating systems and the like. E. E. Gold. No. 1,133,853; Mar. 30; Gaz. vol. 212; p. 1579.
- Valve for hollow steel percussive drills, Exhaust-closing. L. C. Bayles. No. 1,144,991; July 6; Gaz. vol. 216; p. 4.
- Valve for hydraulic door-operating systems, By-pass. F. J. Pike and H. Neville. No. 1,147,542; July 20; Gaz. vol. 216; p. 938.
- Valve for hydraulic governors and the like, Distributing-. T. Gregersen. No. 1,123,273; Jan. 5; Gaz. vol. 210; p. 24.
- Valve for hydraulic machines. H. Gille. No. 1,157,215; Oct. 19; Gaz. vol. 219; p. 716.
- Valve for instantaneous water-heaters, Water-. R. C. Frampton. No. 1,138,859; May 11; Gaz. vol. 214; p. 439.
- Valve for internal-combustion engines. C. P. Breese. No. 1,123,233; Jan. 5; Gaz. vol. 210; p. 11.
- Valve for internal-combustion engines. H. B. Doherty. No. 1,127,868; Feb. 9; Gaz. vol. 211; p. 464.
- Valve for internal-combustion engines. R. P. Flinn. No. 1,123,863; Jan. 5; Gaz. vol. 210; p. 227.
- Valve for internal-combustion engines. G. E. Frazer. No. 1,139,661; May 18; Gaz. vol. 214; p. 756.
- Valve for internal-combustion engines. A. Lafon. No. 1,160,292; Nov. 16; Gaz. vol. 220; p. 747.
- Valve for internal-combustion engines. J. A. Marr. No. 1,129,582; Feb. 23; Gaz. vol. 211; p. 1146.
- Valve for internal-combustion engines. J. L. Quinn. No. 1,162,189; Nov. 30; Gaz. vol. 220; p. 1508.
- Valve for internal-combustion engines. W. E. Taft. No. 1,146,460; July 13; Gaz. vol. 216; p. 542.
- Valve for internal-combustion engines. J. T. Wright. No. 1,160,028; Nov. 9; Gaz. vol. 220; p. 601.
- Valve for internal-combustion engines, Auxiliary. F. Morgan. No. 1,142,194; June 8; Gaz. vol. 215; p. 426.
- Valve for internal-combustion engines, Disk. J. S. O'Neal. No. 1,130,427; Mar. 2; Gaz. vol. 212; p. 204.
- Valve for internal-combustion engines, Puppet-. S. Curran. No. 1,129,555; Feb. 23; Gaz. vol. 211; p. 1137.

Alphabetical list of inventions—Continued.

- Valve for internal-combustion engines, Rotary. S. G. Crossley. No. 1,148,288; July 27; Gaz. vol. 216; p. 1229.
- Valve for internal-combustion engines, Rotary. W. A. Gill. No. 1,130,896; Mar. 9; Gaz. vol. 212; p. 402.
- Valve for internal-combustion engines, Rotary. W. Schutte. No. 1,151,499; Aug. 24; Gaz. vol. 217; p. 1281.
- Valve for internal-combustion engines, Rotary. J. P. Wilson and J. F. Jackson. No. 1,164,605; Dec. 14; Gaz. vol. 221; p. 698.
- Valve for internal-combustion motors, Rotary conical. O. B. Campbell, Jr. No. 1,139,953; May 18; Gaz. vol. 214; p. 858.
- Valve for liquid-containing vessels, Air-. H. P. Kraft. No. 1,159,687; Nov. 9; Gaz. vol. 220; p. 479.
- Valve for liquid-measuring apparatus, Piston-. C. F. Brown. No. 1,162,562; Nov. 30; Gaz. vol. 220; p. 1635.
- Valve for liquid-sprayers, Relief-. L. A. Aspinwall. No. 1,133,785; Mar. 30; Gaz. vol. 212; p. 1554.
- Valve for locomotives, Drifting-. W. H. Foster. No. 1,137,201; Apr. 27; Gaz. vol. 213; p. 1226.
- Valve for locomotives, Throttle-. T. H. Walker. No. 1,126,595; Jan. 26; Gaz. vol. 210; p. 1318.
- Valve for lubricators, Filling-. J. W. Pate. No. 1,134,153; Apr. 6; Gaz. vol. 213; p. 25.
- Valve for molten solids. W. P. Tarrant. No. 1,123,817; Jan. 5; Gaz. vol. 210; p. 211.
- Valve for motors. M. Fischer. No. 1,129,461; Feb. 23; Gaz. vol. 211; p. 1104.
- Valve for oil-tanks, Outlet-. J. E. Wooley. No. 1,155,537; Oct. 5; Gaz. vol. 219; p. 75.
- Valve for percolators and other apparatus. L. Wodjickow. No. 1,145,641; July 6; Gaz. vol. 216; p. 233.
- Valve for percussive tools. L. C. Bayles. No. 1,126,940; Feb. 2; Gaz. vol. 211; p. 96.
- Valve for percussive tools. W. Clement. (Reissue.) No. 1,395,9; Aug. 10; Gaz. vol. 217; p. 648.
- Valve for pneumatic instruments, Cut-off. R. W. Cooper, F. A. Lee, and R. J. Meyer. No. 1,131,471; Mar. 9; Gaz. vol. 212; p. 600.
- Valve for radiators, Air-. T. A. Nelson. No. 1,161,877; Nov. 30; Gaz. vol. 220; p. 1397.
- Valve for refrigerator plants, Cooling-liquid-supply. J. F. Hoffman. No. 1,150,518; Aug. 17; Gaz. vol. 217; p. 888.
- Valve for safes, Safety-. W. H. Ritchie. No. 1,129,016; Feb. 16; Gaz. vol. 211; p. 913.
- Valve for spraying-machines. J. Wilcox. No. 1,135,342; Apr. 13; Gaz. vol. 213; p. 489.
- Valve for steam-engines. J. W. Adams and W. Leach. No. 1,148,425; July 27; Gaz. vol. 216; p. 1277.
- Valve for steam-engines. J. Trysna. No. 1,153,736; Sept. 14; Gaz. vol. 218; p. 524.
- Valve for steam-engines, Distributing-. J. Stumpf. No. 1,155,451; Oct. 5; Gaz. vol. 219; p. 44.
- Valve for steam-engines or the like, Sliding. J. and E. Williamson. No. 1,142,071; June 8; Gaz. vol. 215; p. 383.
- Valve for steam-lines, Controlling and cut-off. J. A. Golliber. No. 1,144,357; June 29; Gaz. vol. 215; p. 1274.
- Valve for steam or water or other liquids or fluids. J. Clayton and R. Taylor. No. 1,165,073; Dec. 21; Gaz. vol. 221; p. 903.
- Valve for steam-radiators, Automatic air-. G. D. Hoffman. No. 1,132,009; Mar. 16; Gaz. vol. 212; p. 825.
- Valve for suction-sweepers. J. R. Van der Putten. No. 1,163,716; Dec. 14; Gaz. vol. 221; p. 389.
- Valve for sumps, Automatic ejector-. W. P. Anderson. No. 1,157,491; Oct. 19; Gaz. vol. 219; p. 813.
- Valve for tank-cars. J. F. Ewell. No. 1,150,586; Aug. 17; Gaz. vol. 217; p. 913.
- Valve for turbines, Balanced. C. W. Dake. No. 1,145,566; July 6; Gaz. vol. 216; p. 206.
- Valve for turbines, Unbalanced. C. W. Dake. No. 1,134,317; Apr. 6; Gaz. vol. 213; p. 86.
- Valve for waste pipes or tubes. O. G. Hitchcock. No. 1,127,622; Feb. 9; Gaz. vol. 211; p. 373.
- Valve for water-backs, Safety-. O. O. Lemon. No. 1,149,272; Aug. 10; Gaz. vol. 217; p. 382.
- Valve, Fuel-economizing. W. J. Kennedy. No. 1,144,209; June 22; Gaz. vol. 215; p. 1195.
- Valve, Fuel-gas-controlling. H. H. Southworth and G. A. Gase. No. 1,162,314; Nov. 30; Gaz. vol. 220; p. 1552.
- Valve, Full-way. E. W. Shaw. No. 1,136,841; Apr. 20; Gaz. vol. 213; p. 1060.
- Valve, Gas-. H. A. Cochran. No. 1,156,347; Oct. 12; Gaz. vol. 219; p. 379.
- Valve, Gas-. J. J. Sullivan. No. 1,126,914; Feb. 2; Gaz. vol. 211; p. 87.
- Valve, Gas-engine. H. V. Bowman. No. 1,157,077; Oct. 19; Gaz. vol. 219; p. 667.
- Valve, Gas-engine. H. F. Holmquest. No. 1,147,023; July 20; Gaz. vol. 216; p. 757.
- Valve, Gas-engine. C. H. Parker. No. 1,137,890; May 4; Gaz. vol. 214; p. 58.
- Valve, Gas-regulating. C. A. Thomas. No. 1,140,420; May 25; Gaz. vol. 214; p. 1057.
- Valve, Gas-shut-off. S. H. Brooks. No. 1,164,461; Dec. 14; Gaz. vol. 221; p. 650.
- Valve, Gas-shut-off. G. L. Burlingame. No. 1,154,561; Sept. 21; Gaz. vol. 218; p. 842.
- Valve, Gate-. H. S. Berger. No. 1,134,811; Apr. 6; Gaz. vol. 213; p. 265.
- Valve, Gate-. E. T. Bowen. No. 1,141,374; June 1; Gaz. vol. 215; p. 103.
- Valve, Gate-. D. Hamilton. No. 1,135,280; Apr. 13; Gaz. vol. 213; p. 468.
- Valve, Gate-. F. W. Hudson. No. 1,149,057; Aug. 3; Gaz. vol. 217; p. 202.
- Valve, Gate-. F. W. Hudson. No. 1,159,677; Nov. 9; Gaz. vol. 220; p. 475.
- Valve, Gate-. W. C. Marsh. No. 1,149,848; Aug. 10; Gaz. vol. 217; p. 591.
- Valve, Gate-. T. White. No. 1,159,453; Nov. 9; Gaz. vol. 220; p. 397.
- Valve-gear. R. Borchardt. No. 1,137,112; Apr. 27; Gaz. vol. 213; p. 1194.
- Valve-gear. E. A. Burrow. No. 1,144,585; June 29; Gaz. vol. 215; p. 1349.
- Valve-gear. V. L. Capwell. No. 1,129,272; Feb. 23; Gaz. vol. 211; p. 1037.
- Valve-gear. G. K. Davol. No. 1,160,582; Nov. 16; Gaz. vol. 220; p. 849.
- Valve-gear. W. H. Miller. No. 1,125,367; Jan. 19; Gaz. vol. 210; p. 844.
- Valve-gear. J. J. Moock. No. 1,132,207; Mar. 16; Gaz. vol. 212; p. 897.
- Valve-gear. C. Reeves. No. 1,124,524; Jan. 12; Gaz. vol. 210; p. 506.
- Valve-gear. G. F. Richart. No. 1,141,416; June 1; Gaz. vol. 215; p. 119.
- Valve-gear, Automatic. C. A. Joy. No. 1,155,245; Sept. 28; Gaz. vol. 218; p. 1104.
- Valve-gear, Engine. G. J. Rathbun. No. 1,159,708; Nov. 9; Gaz. vol. 220; p. 487.
- Valve-gear, Engine. W. H. Smith. No. 1,132,692; Mar. 23; Gaz. vol. 212; p. 1123.
- Valve-gear, Engine. R. C. Stevens. No. 1,125,204; Jan. 19; Gaz. vol. 210; p. 784.
- Valve-gear, Engine. L. J. Willner. No. 1,159,145; Nov. 2; Gaz. vol. 220; p. 253.
- Valve-gear for direct-acting fluid-pressure engines. R. P. Finlay. No. 1,153,613; Sept. 14; Gaz. vol. 218; p. 482.
- Valve-gear for explosive-engines. C. S. Ross. No. 1,161,343; Nov. 23; Gaz. vol. 220; p. 1166.
- Valve-gear for internal-combustion engines. R. Ritter. No. 1,135,719; Apr. 13; Gaz. vol. 213; p. 623.
- Valve-gear for locomotives. T. E. Paradise. No. 1,159,600; Nov. 9; Gaz. vol. 220; p. 448.
- Valve-gear, Gas-engine. O. A. En Holm. No. 1,149,565; Aug. 10; Gaz. vol. 217; p. 486.
- Valve-gear, Hydraulic. R. H. Rice. No. 1,143,437; June 15; Gaz. vol. 215; p. 902.
- Valve-gear, Locomotive. F. W. Fritchey. No. 1,138,207; May 4; Gaz. vol. 214; p. 170.
- Valve-gear, Locomotive. J. E. Winchester. No. 1,146,678; July 13; Gaz. vol. 216; p. 617.
- Valve-gear of explosion-engines. L. Dufour. No. 1,132,247; Mar. 16; Gaz. vol. 212; p. 914.
- Valve-gear, Power. E. P. Robinson. No. 1,126,657; Jan. 26; Gaz. vol. 210; p. 1339.
- Valve-gear-shifting mechanism. K. Rushton. No. 1,141,008; May 25; Gaz. vol. 214; p. 1263.
- Valve-gear, Steam-engine. W. S. Brown. (Reissue.) No. 1,4014; Nov. 23; Gaz. vol. 220; p. 1332.
- Valve-gear, Steam-engine. S. G. Colson. No. 1,136,893; Apr. 20; Gaz. vol. 213; p. 1078.
- Valve-gear, Steam-engine. L. Skinner and E. F. Williams. No. 1,142,853; June 15; Gaz. vol. 215; p. 695.
- Valve, Globe-. M. N. Lenning. No. 1,141,565; June 1; Gaz. vol. 215; p. 171.
- Valve-governing device for combustion-motors, Fuel-. F. Schwarz. No. 1,141,013; May 25; Gaz. vol. 214; p. 1264.
- Valve, Governor-. W. F. Cameron. No. 1,165,315; Dec. 21; Gaz. vol. 221; p. 987.
- Valve, Gravity-. F. S. Oliver. No. 1,161,243; Nov. 23; Gaz. vol. 220; p. 1131.
- Valve-grinder. A. Ashworth. No. 1,158,021; Oct. 26; Gaz. vol. 219; p. 1060.
- Valve-grinder. G. K. Carlson. No. 1,134,511; Apr. 6; Gaz. vol. 213; p. 156.
- Valve-grinder. J. Ekeke. No. 1,135,677; Apr. 13; Gaz. vol. 213; p. 609.
- Valve-grinder. C. F. Hess. No. 1,155,489; Oct. 5; Gaz. vol. 219; p. 58.
- Valve-grinder. H. M. Neer. No. 1,161,070; Nov. 23; Gaz. vol. 220; p. 1067.
- Valve-grinder. J. W. Wilson. No. 1,134,362; Apr. 6; Gaz. vol. 213; p. 102.
- Valve-grinder bit. A. Ashworth. No. 1,154,159; Sept. 21; Gaz. vol. 218; p. 704.
- Valve-grinding apparatus. M. B. Durga. No. 1,126,735; Feb. 2; Gaz. vol. 211; p. 24.
- Valve-grinding device. S. A. Bostwick. No. 1,154,605; Sept. 28; Gaz. vol. 218; p. 886.
- Valve-grinding device. R. N. Strine. No. 1,146,037; July 13; Gaz. vol. 216; p. 392.
- Valve-grinding device. E. Westman. No. 1,158,758; Nov. 2; Gaz. vol. 220; p. 122.

Alphabetical list of inventions—Continued.

- Valve-grinding machine. F. E. Devine. No. 1,135,505; Apr. 13; Gaz. vol. 213; p. 546.
- Valve-grinding machine. E. Newman and L. A. Seppi. No. 1,131,611; Mar. 9; Gaz. vol. 212; p. 647.
- Valve-grinding machine. W. A. Powell. No. 1,151,966; Aug. 31; Gaz. vol. 217; p. 1489.
- Valve-grinding tool. J. J. Morris and M. Eitel. No. 1,150,874; Aug. 24; Gaz. vol. 217; p. 1071.
- Valve-grinding tool. W. H. Pearce. No. 1,131,789; Mar. 16; Gaz. vol. 212; p. 746.
- Valve-grinding tool, Gas-engine. H. P. Johnson. No. 1,135,585; Apr. 13; Gaz. vol. 213; p. 575.
- Valve guide, Flush-. H. Hobbie. No. 1,128,980; Feb. 16; Gaz. vol. 211; p. 901.
- Valve-handles, Sprocket attachment for. I. N. Babbitt. No. 1,151,749; Aug. 31; Gaz. vol. 217; p. 1413.
- Valve, High-pressure. J. Foster. No. 1,147,157; July 20; Gaz. vol. 216; p. 803.
- Valve, High-pressure. T. S. Grimes. No. 1,160,070; Nov. 9; Gaz. vol. 220; p. 615.
- Valve, High-pressure. H. Slater. No. 1,143,236; June 15; Gaz. vol. 215; p. 832.
- Valve, Homogenizing-. W. P. M. Grellck. No. 1,131,368; Mar. 9; Gaz. vol. 212; p. 563.
- Valve, Hot and cold water mixing. B. H. Jansen. No. 1,134,273; Apr. 6; Gaz. vol. 213; p. 70.
- Valve, Hydraulic. A. J. Collar. No. 1,128,228; Feb. 9; Gaz. vol. 211; p. 588.
- Valve, Hydraulic. A. L. Grandstaff. No. 1,158,204; Oct. 26; Gaz. vol. 219; p. 1125.
- Valve, Hydraulic motor-. E. S. Matthews. No. 1,165,430; Dec. 28; Gaz. vol. 221; p. 1067.
- Valve, Inlet-. C. A. Dunham. No. 1,128,426; Feb. 16; Gaz. vol. 211; p. 706.
- Valve, Inlet and waste. W. W. Kemp and W. H. Van Horn. No. 1,124,455; Jan. 12; Gaz. vol. 210; p. 481.
- Valve, Intake-. L. L. Knox. No. 1,165,007; Dec. 21; Gaz. vol. 221; p. 880.
- Valve, Internal-combustion-engine. H. D. Brodie. No. 1,145,398; July 6; Gaz. vol. 216; p. 147.
- Valve, Internal-combustion-engine. G. E. Frazer. No. 1,145,008; July 6; Gaz. vol. 216; p. 10.
- Valve, Internal-combustion-engine. G. F. Gillette. No. 1,132,084; Mar. 16; Gaz. vol. 212; p. 852.
- Valve, Irrigating-. H. F. Gardner. No. 1,140,510; May 25; Gaz. vol. 214; p. 1091.
- Valve, Laminary. G. J. Bryen. No. 1,145,113; July 6; Gaz. vol. 216; p. 50.
- Valve-lifter. D. Alefs. No. 1,158,618; Nov. 2; Gaz. vol. 220; p. 74.
- Valve-lifter. F. Fischer. No. 1,127,610; Feb. 9; Gaz. vol. 211; p. 370.
- Valve-lifter. L. H. Holcomb. No. 1,157,223; Oct. 19; Gaz. vol. 219; p. 719.
- Valve-lifter. G. G. Thau. No. 1,131,440; Mar. 9; Gaz. vol. 212; p. 588.
- Valve, Lock-. J. F. Blything. No. 1,153,189; Sept. 14; Gaz. vol. 218; p. 329.
- Valve-lock. H. T. Taylor. No. 1,145,278; July 6; Gaz. vol. 216; p. 105.
- Valve lock, Gasolene-. H. M. Shedd. No. 1,150,305; Aug. 17; Gaz. vol. 217; p. 815.
- Valve, Locking-. H. E. Kuhner. No. 1,131,065; Mar. 9; Gaz. vol. 212; p. 459.
- Valve, Locking-. C. R. Tobin. No. 1,159,880; Nov. 9; Gaz. vol. 220; p. 550.
- Valve-locking attachment. C. A. Patterson. No. 1,144,056; June 22; Gaz. vol. 215; p. 1139.
- Valve, Locomotive drifting-. F. Shoemaker. No. 1,149,960; Aug. 10; Gaz. vol. 217; p. 631.
- Valve, Locomotive-engine cut-out. S. A. Dugan. No. 1,145,757; July 6; Gaz. vol. 216; p. 274.
- Valve, Magnet-. G. P. Thurber. No. 1,142,382; June 8; Gaz. vol. 215; p. 493.
- Valve, Means for releasing a check-. J. B. Mowry. No. 1,138,239; May 4; Gaz. vol. 214; p. 180.
- Valve mechanism. W. Arter. No. 1,126,679; Feb. 2; Gaz. vol. 211; p. 3.
- Valve mechanism. W. Arter and B. E. Delle. No. 1,129,944; Mar. 2; Gaz. vol. 212; p. 38.
- Valve mechanism. H. P. Ballou. No. 1,157,972; Oct. 26; Gaz. vol. 219; p. 1044.
- Valve mechanism. J. W. Brown, Jr. No. 1,126,381; Jan. 26; Gaz. vol. 210; p. 1238.
- Valve mechanism. J. G. Buchanan. No. 1,141,376; June 1; Gaz. vol. 215; p. 103.
- Valve mechanism. F. D. Butler. No. 1,157,081; Oct. 19; Gaz. vol. 219; p. 668.
- Valve mechanism. L. L. Dodds. No. 1,125,980; Jan. 26; Gaz. vol. 210; p. 1093.
- Valve mechanism. J. Good. No. 1,156,991; Oct. 19; Gaz. vol. 219; p. 636.
- Valve mechanism. H. A. Hatfield. No. 1,149,259; Aug. 10; Gaz. vol. 217; p. 377.
- Valve mechanism. H. A. Hatfield. No. 1,149,365; Aug. 10; Gaz. vol. 217; p. 416.
- Valve mechanism. C. L. Johnson. No. 1,131,707; Mar. 16; Gaz. vol. 212; p. 715.
- Valve mechanism. F. L. Morse. No. 1,156,920; Oct. 19; Gaz. vol. 219; p. 611.
- Valve mechanism. H. G. O'Reilly and C. C. Sampson. No. 1,126,843; Feb. 2; Gaz. vol. 211; p. 64.
- Valve mechanism. W. H. Rayner. No. 1,147,891; July 27; Gaz. vol. 216; p. 1087.
- Valve mechanism. J. A. Skinner and H. D. Thomas. No. 1,134,493; Apr. 6; Gaz. vol. 213; p. 149.
- Valve mechanism. F. P. Snow. No. 1,138,324; May 4; Gaz. vol. 214; p. 213.
- Valve mechanism. H. L. F. Trebert. No. 1,145,631; July 6; Gaz. vol. 216; p. 229.
- Valve mechanism. H. P. T. Van Keuren. No. 1,159,553; Nov. 9; Gaz. vol. 220; p. 431.
- Valve mechanism. J. F. Webb, Jr. No. 1,141,161; June 1; Gaz. vol. 215; p. 25.
- Valve mechanism, Automatic stop-. E. S. Matthews. No. 1,132,203; Mar. 16; Gaz. vol. 212; p. 896.
- Valve mechanism, Combined automatic and straight air. J. A. Adams. No. 1,152,258; Aug. 31; Gaz. vol. 217; p. 1589.
- Valve mechanism, Engine-. L. H. Cobb. No. 1,136,408; Apr. 20; Gaz. vol. 213; p. 907.
- Valve mechanism, Engine-. H. E. Coffin. No. 1,136,104; Apr. 20; Gaz. vol. 213; p. 797.
- Valve mechanism, Float-. R. L. Stokes. No. 1,156,719; Oct. 12; Gaz. vol. 219; p. 511.
- Valve mechanism for automatic-rotation hammer-drills, Throttle-. A. H. Taylor. No. 1,127,110; Feb. 2; Gaz. vol. 211; p. 158.
- Valve mechanism for engines, Slide-. F. A. Bowman and J. E. Briggs. No. 1,123,986; Jan. 5; Gaz. vol. 210; p. 267.
- Valve mechanism for gas-compressors. H. W. Jacobs and H. H. Lanning. No. 1,144,360; June 29; Gaz. vol. 215; p. 1275.
- Valve mechanism for gas-engines, Rotary. J. M. Triner. No. 1,135,078; Apr. 13; Gaz. vol. 213; p. 399.
- Valve mechanism for gas-retorts. H. A. Carpenter. No. 1,149,026; Aug. 3; Gaz. vol. 217; p. 191.
- Valve mechanism for gas-retorts. H. A. Carpenter. No. 1,166,184; Dec. 28; Gaz. vol. 221; p. 1332.
- Valve mechanism for internal-combustion engines. M. E. Bertram. No. 1,128,935; Feb. 16; Gaz. vol. 211; p. 884.
- Valve mechanism for internal-combustion engines. A. Eckert. No. 1,150,751; Aug. 17; Gaz. vol. 217; p. 968.
- Valve mechanism for internal-combustion engines. T. J. Fay. No. 1,149,745; Aug. 10; Gaz. vol. 217; p. 553.
- Valve mechanism for internal-combustion engines. T. J. Fay. No. 1,157,374; Oct. 19; Gaz. vol. 219; p. 772.
- Valve mechanism for internal-combustion engines. W. F. Koken and A. J. Pichl. No. 1,161,221; Nov. 23; Gaz. vol. 220; p. 1123.
- Valve mechanism for internal-combustion engines. W. F. Koken and A. J. Pichl. No. 1,161,222; Nov. 23; Gaz. vol. 220; p. 1123.
- Valve mechanism for internal-combustion engines. W. F. Koken and A. J. Pichl. No. 1,161,223; Nov. 23; Gaz. vol. 220; p. 1123.
- Valve mechanism for internal-combustion engines. W. F. Koken and A. J. Pichl. No. 1,161,224; Nov. 23; Gaz. vol. 220; p. 1124.
- Valve mechanism for internal-combustion engines. W. F. Koken and A. J. Pichl. No. 1,161,225; Nov. 23; Gaz. vol. 220; p. 1124.
- Valve mechanism for internal-combustion engines. A. J. Seaman. No. 1,142,987; June 15; Gaz. vol. 215; p. 743.
- Valve mechanism for internal-combustion engines. A. J. Seaman. No. 1,165,291; Dec. 21; Gaz. vol. 221; p. 979.
- Valve mechanism for internal-combustion engines. W. Stead. No. 1,149,002; Aug. 3; Gaz. vol. 217; p. 183.
- Valve mechanism for locomotives, Screw reverse. K. Rushton. No. 1,145,800; July 6; Gaz. vol. 216; p. 288.
- Valve mechanism for locomotives, Throttle-. W. E. Woodard. No. 1,140,091; May 18; Gaz. vol. 214; p. 909.
- Valve mechanism for steam-engines, Reverse-. O. L. Lewis and J. W. Moon. No. 1,123,902; Jan. 5; Gaz. vol. 210; p. 240.
- Valve mechanism for turbines, Oil-actuated. F. Hodgkinson. No. 1,151,522; Aug. 24; Gaz. vol. 217; p. 1289.
- Valve mechanism, Gas-engine. M. A. Thiel. No. 1,128,078; Feb. 9; Gaz. vol. 211; p. 537.
- Valve mechanism, Molding-machine. W. Lewis. No. 1,157,406; Oct. 19; Gaz. vol. 219; p. 784.
- Valve mechanism, Pneumatic. G. A. Hanly. No. 1,152,811; Sept. 7; Gaz. vol. 218; p. 158.
- Valve mechanism, Rotary-. F. E. Harpst. No. 1,141,958; June 8; Gaz. vol. 215; p. 342.
- Valve mechanism, Sprinkler-. J. R. Drozeski. No. 1,136,897; Apr. 20; Gaz. vol. 213; p. 1079.
- Valve, Mixing-. A. A. Carson. No. 1,152,291; Aug. 31; Gaz. vol. 217; p. 1602.
- Valve, Mixing-. W. J. Cook. No. 1,138,628; May 11; Gaz. vol. 214; p. 354.
- Valve, Mixing-. T. H. Kenney. No. 1,148,455; July 27; Gaz. vol. 216; p. 1286.
- Valve mold, Rotary-. G. Gorton. No. 1,137,203; Apr. 27; Gaz. vol. 213; p. 1226.
- Valve-motion mechanism. W. E. Adams and C. B. Hall. No. 1,144,987; July 6; Gaz. vol. 216; p. 3.
- Valve-movement. C. W. Carroll. No. 1,124,857; Jan. 12; Gaz. vol. 210; p. 626.
- Valve, Noiseless float-. S. T. Swanberg. No. 1,158,743; Nov. 2; Gaz. vol. 220; p. 116.
- Valve, Non-return stop-. A. Schade. No. 1,137,910; May 4; Gaz. vol. 214; p. 65.

Alphabetical list of inventions—Continued.

- Valve of gas-fired smelting-furnaces and the like, Reversing-. E. Lewis. No. 1,146,582; July 13; Gaz. vol. 216; p. 585.
- Valve of internal-combustion engines. W. I. Phifer. No. 1,156,309; Oct. 12; Gaz. vol. 219; p. 365.
- Valve operating and controlling means. B. G. Campbell. No. 1,159,175; Nov. 2; Gaz. vol. 220; p. 266.
- Valve-operating device, Locking-. G. A. Arnold. No. 1,150,162; Aug. 17; Gaz. vol. 217; p. 765.
- Valve-operating gear of internal-combustion engines. J. D. Roots. No. 1,127,924; Feb. 9; Gaz. vol. 211; p. 483.
- Valve-operating mechanism. D. B. Charters. No. 1,129,452; Feb. 23; Gaz. vol. 211; p. 1101.
- Valve-operating mechanism. O. Junggren. No. 1,133,288; Mar. 30; Gaz. vol. 212; p. 1376.
- Valve-operating mechanism. O. Junggren. No. 1,157,941; Oct. 26; Gaz. vol. 219; p. 1032.
- Valve-operating mechanism. F. L. Morse. No. 1,156,921; Oct. 19; Gaz. vol. 219; p. 611.
- Valve-operating mechanism. M. J. Myszkier. No. 1,134,892; Apr. 6; Gaz. vol. 213; p. 290.
- Valve-operating mechanism. T. F. Rainsford. No. 1,137,532; Apr. 27; Gaz. vol. 213; p. 1345.
- Valve-operating mechanism. J. H. Swan. No. 1,157,059; Oct. 19; Gaz. vol. 219; p. 661.
- Valve-operating mechanism. W. F. Van Hoesen. No. 1,133,343; Mar. 30; Gaz. vol. 212; p. 1395.
- Valve-operating mechanism for flush-valves. E. H. Lawrence. No. 1,146,505; July 13; Gaz. vol. 216; p. 558.
- Valve-operating mechanism for internal-combustion engines. C. M. Blanchard. No. 1,124,838; Jan. 12; Gaz. vol. 210; p. 619.
- Valve-operating mechanism for internal-combustion engines. J. G. Buis. No. 1,165,841; Dec. 28; Gaz. vol. 221; p. 1209.
- Valve-operating mechanism for internal-combustion engines. R. Urtel. No. 1,156,508; Oct. 12; Gaz. vol. 219; p. 438.
- Valve or cock, Mixing. V. E. Joyce. No. 1,126,478; Jan. 26; Gaz. vol. 210; p. 1272.
- Valve or damper, Water-cooled. L. L. Knox. No. 1,142,180; June 8; Gaz. vol. 215; p. 421.
- Valve, Outlet. G. Canestti. No. 1,146,846; July 20; Gaz. vol. 216; p. 694.
- Valve-pick-up tool. G. H. Hammond. No. 1,128,135; Feb. 9; Gaz. vol. 211; p. 557.
- Valve, Pillow-. M. C. Schweinert and H. P. Kraft. No. 1,158,420; Oct. 26; Gaz. vol. 219; p. 1202.
- Valve, Plate-. M. J. Moore. No. 1,150,141; Aug. 17; Gaz. vol. 217; p. 757.
- Valve-plug for volatile-containers. R. M. Taylor and A. G. Broe. No. 1,139,463; May 11; Gaz. vol. 214; p. 650.
- Valve, Pneumatic. A. J. Tyler. No. 1,140,634; May 25; Gaz. vol. 214; p. 1133.
- Valve, Pressure-. B. S. Price. No. 1,140,713; May 25; Gaz. vol. 214; p. 1158.
- Valve, Pressure-actuated. G. H. Gilman. No. 1,164,497; Dec. 14; Gaz. vol. 221; p. 662.
- Valve, Pressure-controlled. J. H. Castle and W. G. Rogers. No. 1,138,278; May 4; Gaz. vol. 214; p. 194.
- Valve, Pressure-controlled. A. M. Houser. No. 1,157,870; Oct. 26; Gaz. vol. 219; p. 1007.
- Valve, Pressure-controlled. W. F. Treiber and E. L. Bulkley. No. 1,145,043; July 6; Gaz. vol. 216; p. 25.
- Valve, Pressure-controlling. T. W. Davis. No. 1,154,385; Sept. 21; Gaz. vol. 218; p. 783.
- Valve, Pressure-reducing. J. Graham. No. 1,166,357; Dec. 28; Gaz. vol. 221; p. 1395.
- Valve, Pressure regulating or reducing. C. R. Arcus. No. 1,132,424; Mar. 16; Gaz. vol. 212; p. 977.
- Valve, primer, and auxiliary air-valve, Combined lighting-. C. M. Jewell. No. 1,151,793; Aug. 31; Gaz. vol. 217; p. 1429.
- Valve, Radiator-. A. H. Buckelew. No. 1,123,480; Jan. 5; Gaz. vol. 210; p. 97.
- Valve, Radiator-. E. D. Peerstone. No. 1,134,415; Apr. 6; Gaz. vol. 213; p. 120.
- Valve, Radiator-. W. B. Poindexter. No. 1,146,276; July 13; Gaz. vol. 216; p. 475.
- Valve, Radiator air-. G. D. Hoffman. No. 1,132,010; Mar. 16; Gaz. vol. 212; p. 826.
- Valve, Radiator-control. C. D. Allan. No. 1,142,389; June 8; Gaz. vol. 215; p. 495.
- Valve, Reducing-. L. M. Lewis. No. 1,148,596; Aug. 3; Gaz. vol. 217; p. 40.
- Valve, Regulating-. A. Beler. No. 1,126,177; Jan. 26; Gaz. vol. 210; p. 1167.
- Valve, Regulating-. G. W. Collin. No. 1,161,190; Nov. 23; Gaz. vol. 220; p. 1111.
- Valve, Regulating-. F. T. Kitchen. No. 1,139,533; May 18; Gaz. vol. 214; p. 710.
- Valve-regulator. L. T. Mart and G. M. Stains. No. 1,160,926; Nov. 16; Gaz. vol. 220; p. 971.
- Valve-regulator, Expansion-. J. M. Larson. No. 1,146,803; July 20; Gaz. vol. 216; p. 679.
- Valve, Relief-. W. H. Bees. No. 1,148,568; Aug. 3; Gaz. vol. 217; p. 31.
- Valve, Relief-. W. J. Burkart. No. 1,149,023; Aug. 3; Gaz. vol. 217; p. 191.
- Valve, Relief-. J. A. Butcher. No. 1,145,671; July 6; Gaz. vol. 216; p. 243.
- Valve, Relief-. L. M. Cooper. No. 1,163,974; Dec. 14; Gaz. vol. 221; p. 479.
- Valve, Relief-. E. F. Gebhardt. No. 1,138,551; May 4; Gaz. vol. 214; p. 289.
- Valve, Relief-. M. Mintz. No. 1,133,738; Mar. 30; Gaz. vol. 212; p. 1537.
- Valve, Relief-. R. S. Whitney. No. 1,138,338; May 4; Gaz. vol. 214; p. 218.
- Valve reseating or milling tool, Adjustable. C. I. Sedlmayer and J. W. Brooks. No. 1,132,396; Mar. 16; Gaz. vol. 212; p. 967.
- Valve, Reserve-supply. T. B. Hyatt. No. 1,132,350; Mar. 16; Gaz. vol. 212; p. 950.
- Valve, Reversible flush-. J. B. Williams. (Reissue.) No. 13,913; May 4; Gaz. vol. 214; p. 314.
- Valve, Reversing-. J. A. Wohlberg. No. 1,153,280; Sept. 14; Gaz. vol. 218; p. 361.
- Valve-reversing gear, Steam-engine. C. J. Mellin. No. 1,140,328; May 18; Gaz. vol. 214; p. 989.
- Valve-reversing gear, Steam-engine. H. R. Stafford. No. 1,165,811; Dec. 28; Gaz. vol. 221; p. 1200.
- Valve, Rotary. D. Bowman. No. 1,138,446; May 4; Gaz. vol. 214; p. 255.
- Valve, Rotary. R. B. Ewart. No. 1,131,776; Mar. 16; Gaz. vol. 212; p. 741.
- Valve, Rotary. J. Ferrer and E. Alonso. No. 1,157,684; Oct. 26; Gaz. vol. 219; p. 943.
- Valve, Rotary. E. R. Hobbs. No. 1,137,758; May 4; Gaz. vol. 214; p. 13.
- Valve, Rotary. J. P. King. No. 1,130,521; Mar. 2; Gaz. vol. 212; p. 239.
- Valve, Rotary. E. E. Moore. No. 1,146,644; July 13; Gaz. vol. 216; p. 605.
- Valve, Rotary. J. D. Rourke. No. 1,131,089; Mar. 9; Gaz. vol. 212; p. 467.
- Valve, Rotary. W. Schutte. No. 1,160,330; Nov. 16; Gaz. vol. 220; p. 759.
- Valve, Rotary. L. A. Sherman. No. 1,161,813; Nov. 23; Gaz. vol. 220; p. 1329.
- Valve, Rotary. C. A. Swackhammer. No. 1,140,206; May 18; Gaz. vol. 214; p. 948.
- Valve, Rotary. W. Von Hacht, C. R. Taylor, and W. F. Clewe. No. 1,154,899; Sept. 28; Gaz. vol. 218; p. 986.
- Valve, Rubber float ball-. D. Stephen. No. 1,158,395; Oct. 26; Gaz. vol. 219; p. 1192.
- Valve, Safety-. F. C. Blanchard and E. B. Crocker. No. 1,143,027; June 15; Gaz. vol. 215; p. 756.
- Valve, Safety-. F. C. Blanchard and E. B. Crocker. No. 1,151,508; Aug. 24; Gaz. vol. 217; p. 1284.
- Valve, Safety-. J. L. Butts. No. 1,150,743; Aug. 17; Gaz. vol. 217; p. 966.
- Valve, Safety-. D. Cockburn and D. MacNicol. No. 1,164,990; Dec. 21; Gaz. vol. 221; p. 875.
- Valve, Safety-. Z. E. Crook. No. 1,124,113; Jan. 5; Gaz. vol. 210; p. 311.
- Valve, Safety-. P. Gensheimer. No. 1,162,153; Nov. 30; Gaz. vol. 220; p. 1495.
- Valve, Safety-. A. M. Houser. No. 1,152,733; Sept. 7; Gaz. vol. 218; p. 130.
- Valve, Safety-. W. Lange. No. 1,162,935; Dec. 7; Gaz. vol. 221; p. 69.
- Valve, Safety-. M. W. Loyd and A. Phelps. No. 1,136,606; Apr. 20; Gaz. vol. 213; p. 977.
- Valve, Sanitary filling-. G. W. Haverstick and T. J. McKee. No. 1,140,514; May 25; Gaz. vol. 214; p. 1092.
- Valve-seat-refacing tool. J. W. Brooks. No. 1,127,175; Feb. 2; Gaz. vol. 211; p. 180.
- Valve, Segmental rotary. W. A. Gill. No. 1,164,495; Dec. 14; Gaz. vol. 221; p. 661.
- Valve, Self-closing. R. Osvaldella. No. 1,144,860; June 29; Gaz. vol. 215; p. 1446.
- Valve, Self-closing flush-. F. De Vaux. No. 1,147,219; July 20; Gaz. vol. 216; p. 826.
- Valve, Self-seating. F. F. Tripp. No. 1,125,606; Jan. 19; Gaz. vol. 210; p. 927.
- Valve-setting mechanism for locomotives. P. W. Williams. No. 1,125,240; Jan. 19; Gaz. vol. 210; p. 798.
- Valve signal, Gate. L. A. Grimes. No. 1,127,232; Feb. 2; Gaz. vol. 211; p. 200.
- Valve, Slide-. J. W. Miller. No. 1,136,696; Apr. 20; Gaz. vol. 213; p. 1008.
- Valve, Slide feed-. J. P. Murphy. No. 1,166,242; Dec. 28; Gaz. vol. 221; p. 1356.
- Valve, Slow-closing. J. H. Carr. No. 1,162,134; Nov. 30; Gaz. vol. 220; p. 1489.
- Valve-spring. G. H. M. Canton, P. G. Unne, and E. J. J. Salmson. No. 1,154,971; Sept. 28; Gaz. vol. 218; p. 1010.
- Valve-spring compressor. J. J. Eagan. No. 1,138,462; May 4; Gaz. vol. 214; p. 261.
- Valve-spring compressor. A. R. Gellersdorf. No. 1,164,452; Dec. 14; Gaz. vol. 221; p. 646.
- Valve-spring lifter. F. J. Vlichek. No. 1,159,626; Nov. 9; Gaz. vol. 220; p. 458.
- Valve-spring remover. E. N. Kraemer. No. 1,147,804; July 27; Gaz. vol. 216; p. 1056.
- Valve springs, Tool for compressing tappet-. H. P. Johnson. No. 1,135,586; Apr. 13; Gaz. vol. 213; p. 576.
- Valve starting mechanism for explosive engines, Distributing-. C. J. Pembroke. No. 1,143,778; June 22; Gaz. vol. 215; p. 1041.

Alphabetical list of inventions—Continued.

- Valve, Steam-. N. J. Lockyer. No. 1,126,537; Jan. 26; Gaz. vol. 210; p. 1297.
- Valve, Steam-cushion. N. B. Henry. No. 1,132,718; Mar. 23; Gaz. vol. 212; p. 1132.
- Valve-stem. G. Hughes and D. F. Givens. No. 1,163,927; Dec. 14; Gaz. vol. 221; p. 463.
- Valve-stem protective device. G. M. Stadelman. No. 1,141,219; June 1; Gaz. vol. 215; p. 46.
- Valve-stem shell. L. C. Woelz. No. 1,159,310; Nov. 2; Gaz. vol. 220; p. 314.
- Valve-stems, Protecting-jacket for. S. A. Swenson. No. 1,127,107; Feb. 2; Gaz. vol. 211; p. 157.
- Valve, Stop-. J. Dewrance. No. 1,137,194; Apr. 27; Gaz. vol. 213; p. 1223.
- Valve, Stop-. W. G. Potter. No. 1,139,221; May 11; Gaz. vol. 214; p. 565.
- Valve, Stop and waste. C. Walker. No. 1,127,552; Feb. 9; Gaz. vol. 211; p. 351.
- Valve structure. W. A. Campbell. No. 1,126,171; Jan. 26; Gaz. vol. 210; p. 1164.
- Valve, Suction relief-. J. T. Atwood. No. 1,156,872; Oct. 19; Gaz. vol. 219; p. 593.
- Valve, Supply-. D. W. McNeil. No. 1,150,216; Aug. 17; Gaz. vol. 217; p. 783.
- Valve, Supply-. E. H. Nolan. No. 1,147,639; July 20; Gaz. vol. 216; p. 973.
- Valve, Supply-. G. F. Voigt. No. 1,148,000; June 15; Gaz. vol. 215; p. 747.
- Valve, Swivel combination-. G. W. Bowie and C. R. Smith. No. 1,145,742; July 6; Gaz. vol. 216; p. 269.
- Valve, Tank-. W. J. Eggers. No. 1,162,852; Dec. 7; Gaz. vol. 221; p. 42.
- Valve, Tank-. F. W. Robertshaw. No. 1,125,596; Jan. 19; Gaz. vol. 210; p. 923.
- Valve, Tank-. N. Zimbaum. No. 1,143,014; June 15; Gaz. vol. 215; p. 752.
- Valve, Temperature-controlled. C. F. Johnson. No. 1,127,627; Feb. 9; Gaz. vol. 211; p. 375.
- Valve, Tender-tank. S. S. Riegel. No. 1,143,726; June 22; Gaz. vol. 215; p. 1023.
- Valve-testing apparatus, Triple. C. C. Farmer. No. 1,143,620; June 22; Gaz. vol. 215; p. 988.
- Valve, Thermal. H. Stewart. No. 1,161,013; Nov. 16; Gaz. vol. 220; p. 1003.
- Valve, Thermally-controlled. W. H. Paine. No. 1,142,528; June 8; Gaz. vol. 215; p. 545.
- Valve, Thermally-controlled. W. H. Paine. No. 1,147,426; July 20; Gaz. vol. 216; p. 898.
- Valve, Thermally-controlled. R. C. Patton. No. 1,129,597; Feb. 23; Gaz. vol. 211; p. 1153.
- Valve, Thermostatic. G. L. Bottum. No. 1,147,297; July 20; Gaz. vol. 216; p. 850.
- Valve, Thermostatic. E. S. Caldwell. No. 1,149,182; Aug. 10; Gaz. vol. 217; p. 349.
- Valve, Thermostatic. R. T. McConlogue. No. 1,161,060; Nov. 23; Gaz. vol. 220; p. 1064.
- Valve, Thermostatic water-. J. J. Finney. No. 1,153,547; Sept. 14; Gaz. vol. 218; p. 459.
- Valve, Throttle-. J. Ellis. No. 1,130,500; Mar. 2; Gaz. vol. 212; p. 232.
- Valve, Throttle-. G. Frink. No. 1,140,738; May 25; Gaz. vol. 214; p. 1167.
- Valve, Throttle or starting. A. E. Hudson. No. 1,136,133; Apr. 20; Gaz. vol. 213; p. 807.
- Valve-timer, Internal-combustion-engine. T. W. Morgan. No. 1,150,291; Aug. 17; Gaz. vol. 217; p. 811.
- Valve, Train-pipe end. J. F. McElroy. No. 1,157,236; Oct. 19; Gaz. vol. 219; p. 723.
- Valve, Triple. J. R. Snyder. No. 1,136,057; Apr. 20; Gaz. vol. 213; p. 781.
- Valve, Triple. J. R. Snyder. No. 1,146,970; July 20; Gaz. vol. 216; p. 739.
- Valve, Triple. J. R. Snyder. No. 1,164,025; Dec. 14; Gaz. vol. 221; p. 497.
- Valve, Vacuum-. S. A. Kinsey, Jr. No. 1,164,098; Dec. 14; Gaz. vol. 221; p. 522.
- Valve, Vacuum radiator-. G. Van Dyke. No. 1,131,096; Mar. 9; Gaz. vol. 212; p. 469.
- Valve, Vacuum reducing-. W. P. Burke. No. 1,162,731; Nov. 30; Gaz. vol. 220; p. 1690.
- Valve, Waste-. T. H. Kenney. No. 1,148,456; July 27; Gaz. vol. 216; p. 1287.
- Valve, Water-cooled. L. L. Knox. No. 1,151,193; Aug. 24; Gaz. vol. 217; p. 1178.
- Valve, Water-seal. W. Thumm. No. 1,141,668; June 1; Gaz. vol. 215; p. 206.
- Valve-wheel. G. Lidseen. No. 1,160,421; Nov. 16; Gaz. vol. 220; p. 792.
- Valves, Automatic control for burner-. C. W. Gould. No. 1,135,891; Apr. 13; Gaz. vol. 213; p. 683.
- Valves, Automatic draining attachment for. P. Burns. No. 1,126,385; Jan. 26; Gaz. vol. 210; p. 1240.
- Valves, Bonnet for hot-air. C. Nock. No. 1,144,664; June 29; Gaz. vol. 215; p. 1376.
- Valves, Driving mechanism for rotary. C. E. Mead. No. 1,130,753; Mar. 9; Gaz. vol. 212; p. 352.
- Valves, Lever mechanism for operating throttle-. K. Rushton. No. 1,149,951; Aug. 10; Gaz. vol. 217; p. 628.
- Valves, Making. G. J. Bryen. No. 1,145,114; July 6; Gaz. vol. 216; p. 50.
- Valves, Making rubber float ball-. D. Stephen. No. 1,158,009; Oct. 26; Gaz. vol. 219; p. 1056.
- Valves of explosive-engines, Device for grinding and removing the. E. Forster. No. 1,158,796; Nov. 2; Gaz. vol. 220; p. 136.
- Valves of internal-combustion engines, Cam control for. E. Herkt. No. 1,164,183; Dec. 14; Gaz. vol. 221; p. 551.
- Valves, Packing for piston-. J. T. Wilson. No. 1,145,730; July 6; Gaz. vol. 216; p. 265.
- Valves, Safety-lock for gas-. M. J. Svoboda. No. 1,151,304; Aug. 24; Gaz. vol. 217; p. 1216.
- Valves, Screw reverse-gear for engine-. W. A. Austin and S. S. Lawson. No. 1,144,455; June 29; Gaz. vol. 215; p. 1307.
- Valves, Supervisory system for sprinkler-. W. A. Rogers and M. Parker. No. 1,153,573; Sept. 14; Gaz. vol. 218; p. 469.
- Valves, Tool for removing engine-. T. A. Knutson. No. 1,163,018; Dec. 7; Gaz. vol. 221; p. 99.
- Vamp-marking machine. P. R. Glass. No. 1,141,329; June 1; Gaz. vol. 215; p. 86.
- Vamp-steaming apparatus. J. W. Gore. No. 1,135,450; Apr. 13; Gaz. vol. 213; p. 528.
- Vanadium and selenium, Compound of. F. Von Oefele. No. 1,154,949; Sept. 28; Gaz. vol. 218; p. 1003.
- Vanadium, uranium, and radium from ores, Extracting. R. B. Moore. No. 1,165,692; Dec. 28; Gaz. vol. 221; p. 1159.
- Vanadium, uranium, and radium from ores, Extracting. R. B. Moore. No. 1,165,693; Dec. 28; Gaz. vol. 221; p. 1160.
- Vane, Stabilizing-. C. R. Wittenmann. No. 1,160,354; Nov. 16; Gaz. vol. 220; p. 768.
- Vanity-box. M. N. Ross. No. 1,163,773; Dec. 14; Gaz. vol. 221; p. 409.
- Vanity-box and program, Combined. W. G. Restorff. No. 1,156,815; Oct. 12; Gaz. vol. 219; p. 542.
- Vanity-clasp. F. M. Swartz. No. 1,145,628; July 6; Gaz. vol. 216; p. 228.
- Vapor-apparatus-controlling means. P. C. Hewitt. No. 1,156,228; Oct. 12; Gaz. vol. 219; p. 338.
- Vapor-apparatus protecting device. P. C. Hewitt. No. 1,163,665; Dec. 14; Gaz. vol. 221; p. 369.
- Vapor-burner. A. C. E. Erichsen. No. 1,130,501; Mar. 2; Gaz. vol. 212; p. 232.
- Vapor-burner furnace. C. R. Lambert. No. 1,136,965; Apr. 27; Gaz. vol. 213; p. 1140.
- Vapor burner, Liquid-hydrocarbon-. A. I. Blanchard. No. 1,129,783; Feb. 23; Gaz. vol. 211; p. 1212.
- Vapor-burning apparatus. G. L. Hogan. No. 1,158,687; Nov. 2; Gaz. vol. 220; p. 97.
- Vapor-converter. P. H. Thomas. No. 1,163,705; Dec. 14; Gaz. vol. 221; p. 385.
- Vapor-converter and circuits therefor. P. H. Thomas. No. 1,131,292; Mar. 9; Gaz. vol. 212; p. 537.
- Vapor-converters in operation, Means for maintaining. P. H. Thomas. (Reissue.) No. 13,906; Apr. 27; Gaz. vol. 213; p. 1410.
- Vapor-generator. T. W. Dixon. No. 1,144,820; June 29; Gaz. vol. 215; p. 1432.
- Vapor-generators, Means for regulating the supply of liquid to. J. Wilkinson. No. 1,154,467; Sept. 21; Gaz. vol. 218; p. 811.
- Vapor-heater. W. S. Hadaway, Jr. No. 1,163,657; Dec. 14; Gaz. vol. 221; p. 367.
- Vapor, Method and apparatus for obtaining work from. J. G. Prosser. No. 1,165,626; Dec. 28; Gaz. vol. 221; p. 1135.
- Vapor-rectifier. D. C. Davis. No. 1,150,017; Aug. 17; Gaz. vol. 217; p. 712.
- Vapor-rectifier. G. M. Eaton. No. 1,166,196; Dec. 28; Gaz. vol. 221; p. 1338.
- Vaporizer. F. G. Bee. No. 1,135,151; Apr. 13; Gaz. vol. 213; p. 426.
- Vaporizer and burner. H. C. Fox. No. 1,145,135; July 6; Gaz. vol. 216; p. 56.
- Vaporizer, Electric. F. Kuhn. No. 1,125,028; Jan. 12; Gaz. vol. 210; p. 685.
- Vaporizer, Electric. C. G. Tate. No. 1,136,845; Apr. 20; Gaz. vol. 213; p. 1061.
- Vaporizer, Gasolene-. R. H. MacDonald. No. 1,128,470; Feb. 16; Gaz. vol. 211; p. 722.
- Vaporizing apparatus. C. A. Waldeck. No. 1,124,979; Jan. 12; Gaz. vol. 210; p. 669.
- Vaporizing attachment. A. W. Mansbridge and S. J. Nash. No. 1,130,915; Mar. 9; Gaz. vol. 212; p. 408.
- Vaporizing device. H. P. Macdonald. No. 1,147,416; July 20; Gaz. vol. 216; p. 895.
- Variable-stroke motor or pump. H. S. Hele-Shaw. No. 1,152,729; Sept. 7; Gaz. vol. 218; p. 128.
- Varnish, Composition of matter to be used for bronze-powder. M. Fehring. No. 1,157,768; Oct. 26; Gaz. vol. 219; p. 971.
- Varnish-drying oven. J. C. Gillette. No. 1,139,858; May 18; Gaz. vol. 214; p. 825.
- Varnish, enamel, or lacquer composition. J. W. Aylsworth. No. 1,137,374; Apr. 27; Gaz. vol. 213; p. 1291.
- Varnish, Insulating-. C. Baeder. No. 1,149,171; Aug. 10; Gaz. vol. 217; p. 345.

Alphabetical list of inventions—Continued.

- Varnish reviving and polishing composition. G. S. A. Cassimus. No. 1,161,187; Nov. 23; Gaz. vol. 220; p. 1110.
- Varnishes and other like materials and producing same. A. B. and F. P. Walker. No. 1,131,578; Mar. 9; Gaz. vol. 212; p. 635.
- Varnishing-machine. C. W. Smith. No. 1,164,023; Dec. 14; Gaz. vol. 221; p. 496.
- Vase and lamp stand, Combined. W. N. Reed. No. 1,164,211; Dec. 14; Gaz. vol. 221; p. 560.
- Vat: See—
Press-vat.
- Vat-drier. S. T. Willson. No. 1,150,920; Aug. 24; Gaz. vol. 217; p. 1085.
- Vat-racking device. A. Greppo. No. 1,151,457; Aug. 24; Gaz. vol. 217; p. 1265.
- Vault, Burial-. F. E. Arndt. No. 1,144,579; June 29; Gaz. vol. 215; p. 1347.
- Vault, Burial-. F. E. Arndt. No. 1,149,488; Aug. 10; Gaz. vol. 217; p. 458.
- Vault, Burial-. G. G. Babich. No. 1,153,535; Sept. 14; Gaz. vol. 218; p. 455.
- Vault, Burial-. D. C. Boyd. No. 1,158,399; Oct. 26; Gaz. vol. 219; p. 1194.
- Vault, Burial-. C. L. Sherwood. No. 1,129,745; Feb. 23; Gaz. vol. 211; p. 1199.
- Vault, Burial-. C. L. Sherwood. No. 1,129,836; Feb. 23; Gaz. vol. 211; p. 1230.
- Vault, Cement burial-. T. Berry and W. Breymaier. No. 1,154,085; Sept. 21; Gaz. vol. 218; p. 680.
- Vault-doors, Means for automatically closing. F. W. Rodler. No. 1,139,074; May 11; Gaz. vol. 214; p. 515.
- Vault, Grave-. F. Rabkin. No. 1,151,217; Aug. 24; Gaz. vol. 217; p. 1188.
- Vault, Grave-. F. S. Wisterman. No. 1,131,886; Mar. 16; Gaz. vol. 212; p. 781.
- Vault, Grave-. J. Young and J. H. Geler. No. 1,125,626; Jan. 19; Gaz. vol. 210; p. 934.
- Vault-head. A. W. Kurz. No. 1,149,652; Aug. 10; Gaz. vol. 217; p. 522.
- Vault-light. W. J. Garrison. No. 1,155,348; Oct. 5; Gaz. vol. 219; p. 9.
- Vault-light. C. B. Jacobs. No. 1,157,002; Oct. 19; Gaz. vol. 219; p. 640.
- Vault-light construction and securing lenses therein. L. W. Mulford. No. 1,159,858; Nov. 9; Gaz. vol. 220; p. 543.
- Vault lock, Grave-. M. E. Cobb. No. 1,154,235; Sept. 21; Gaz. vol. 218; p. 730.
- Vault lock, Grave-. C. L. Johnson. No. 1,131,522; Mar. 9; Gaz. vol. 212; p. 617.
- Vault-locking mechanism. J. W. Carpenter. No. 1,137,739; May 4; Gaz. vol. 214; p. 7.
- Vaults, Rest-rail for grave-. C. L. Sherwood. No. 1,152,853; Sept. 7; Gaz. vol. 218; p. 174.
- Vaulting-standard. P. S. Medart. No. 1,128,705; Feb. 16; Gaz. vol. 211; p. 802.
- Vegetable base, Manufacture of products having a. H. Schmidt. No. 1,128,628; Feb. 16; Gaz. vol. 211; p. 776.
- Vegetable-cutter. J. Rudnicki. No. 1,150,969; Aug. 24; Gaz. vol. 217; p. 1102.
- Vegetable-cutter. J. Segere. No. 1,155,762; Oct. 5; Gaz. vol. 219; p. 151.
- Vegetable-cutter. A. Stollenberg. No. 1,157,448; Oct. 19; Gaz. vol. 219; p. 799.
- Vegetable-mashing machine. E. Franke. No. 1,158,198; Oct. 26; Gaz. vol. 219; p. 1123.
- Vegetable material, Bucking. R. Bohn. No. 1,156,048; Oct. 12; Gaz. vol. 219; p. 278.
- Vegetable substances for the recovery of their values, Treating. M. W. Marsden. No. 1,165,689; Dec. 28; Gaz. vol. 221; p. 1158.
- Vegetable-washer. J. P. Marlin. No. 1,132,597; Mar. 23; Gaz. vol. 212; p. 1088.
- Vehicle. G. B. Ambler. No. 1,148,276; July 27; Gaz. vol. 216; p. 1225.
- Vehicle. J. H. Carr. No. 1,125,960; Jan. 26; Gaz. vol. 210; p. 1085.
- Vehicle. B. L. Davis. No. 1,154,616; Sept. 28; Gaz. vol. 218; p. 890.
- Vehicle. G. M. Eaton. No. 1,155,224; Sept. 28; Gaz. vol. 218; p. 1097.
- Vehicle. H. C. Ehmke. No. 1,150,509; Aug. 17; Gaz. vol. 217; p. 885.
- Vehicle. S. H. Goodin. No. 1,148,769; Aug. 3; Gaz. vol. 217; p. 103.
- Vehicle. R. H. Hassler. No. 1,149,756; Aug. 10; Gaz. vol. 217; p. 558.
- Vehicle. C. T. Henderson. No. 1,143,195; June 15; Gaz. vol. 215; p. 817.
- Vehicle. J. F. Livingood. No. 1,158,137; Oct. 26; Gaz. vol. 219; p. 1102.
- Vehicle. F. E. and A. S. Messier. No. 1,133,444; Mar. 30; Gaz. vol. 212; p. 1431.
- Vehicle. J. O. Morris. No. 1,142,196; June 8; Gaz. vol. 215; p. 427.
- Vehicle. F. T. Ramsey. No. 1,138,148; May 4; Gaz. vol. 214; p. 151.
- Vehicle. C. Senfer. No. 1,164,228; Dec. 14; Gaz. vol. 221; p. 565.
- Vehicle. H. N. Whittelsey. No. 1,126,326; Jan. 26; Gaz. vol. 210; p. 1219.
- Vehicle air-spring. J. S. Green. No. 1,149,363; Aug. 10; Gaz. vol. 217; p. 416.
- Vehicle air-spring. J. S. Green. No. 1,164,182; Dec. 14; Gaz. vol. 221; p. 551.
- Vehicle air-spring. R. Liebau. No. 1,128,014; Feb. 9; Gaz. vol. 211; p. 514.
- Vehicle air-spring. R. Liebau. No. 1,148,177; July 27; Gaz. vol. 216; p. 1191.
- Vehicle-alarm. A. H. Marhenke. No. 1,123,774; Jan. 5; Gaz. vol. 210; p. 197.
- Vehicle, Ammunition-. O. Heubach. No. 1,160,713; Nov. 16; Gaz. vol. 220; p. 899.
- Vehicle and boat, Motor. R. C. Johnson. No. 1,151,272; Aug. 24; Gaz. vol. 217; p. 1205.
- Vehicle and mower, Combined motor-. P. E. Shirk. No. 1,154,662; Sept. 28; Gaz. vol. 218; p. 907.
- Vehicle, Armored. G. Glem. No. 1,149,127; Aug. 3; Gaz. vol. 217; p. 224.
- Vehicle-arrester. P. J. Weber, Jr. No. 1,141,291; June 1; Gaz. vol. 215; p. 72.
- Vehicle attachment. A. J. Cook. No. 1,143,751; June 22; Gaz. vol. 215; p. 1032.
- Vehicle attachment. J. Hagel. No. 1,125,516; Jan. 19; Gaz. vol. 210; p. 895.
- Vehicle attachment. R. O. McClure and H. P. Johnson. No. 1,124,932; Jan. 12; Gaz. vol. 210; p. 652.
- Vehicle attachment. W. E. Raymond. No. 1,158,556; Nov. 2; Gaz. vol. 220; p. 53.
- Vehicle attachment, Motor-. J. B. Corser. No. 1,148,759; Aug. 3; Gaz. vol. 217; p. 100.
- Vehicle attachment, Wheeled-. A. L. Duncan. No. 1,162,585; Nov. 30; Gaz. vol. 220; p. 1642.
- Vehicle, Automatic dump-. L. A. Welsch. No. 1,164,604; Dec. 14; Gaz. vol. 221; p. 697.
- Vehicle automatic safeguard. E. Swindell. No. 1,160,341; Nov. 16; Gaz. vol. 220; p. 763.
- Vehicle auxiliary spring. F. J. Kitowski. No. 1,159,232; Nov. 2; Gaz. vol. 220; p. 286.
- Vehicle-bodies, Collapsible window-frame for. A. F. Koerber. No. 1,157,875; Oct. 26; Gaz. vol. 219; p. 1009.
- Vehicle-bodies, Resilient support for. W. G. Wood. No. 1,137,176; Apr. 27; Gaz. vol. 213; p. 1216.
- Vehicle-body. J. E. Kilburn. No. 1,148,236; July 27; Gaz. vol. 216; p. 1209.
- Vehicle-body, Convertible. W. I. Twombly. No. 1,157,266; Oct. 19; Gaz. vol. 219; p. 736.
- Vehicle body-elevating mechanism. T. Wright. No. 1,157,487; Oct. 19; Gaz. vol. 219; p. 812.
- Vehicle body expansion-joint. E. E. Collison. No. 1,162,980; Dec. 7; Gaz. vol. 221; p. 85.
- Vehicle body-fastener. E. R. Jackson. No. 1,136,532; Apr. 20; Gaz. vol. 213; p. 950.
- Vehicle body-inclosure. E. F. Whartenby. No. 1,163,727; Dec. 14; Gaz. vol. 221; p. 393.
- Vehicle-body, Metallic. J. Ledwinka. No. 1,139,457; May 11; Gaz. vol. 214; p. 648.
- Vehicle body, Motor-road-. A. Legrand. No. 1,142,590; June 8; Gaz. vol. 215; p. 566.
- Vehicle body-mounting. W. R. Tennille. No. 1,155,528; Oct. 5; Gaz. vol. 219; p. 72.
- Vehicle body-supporting means. C. A. Behlen. No. 1,123,661; Jan. 5; Gaz. vol. 210; p. 159.
- Vehicle body-ventilator, Closed-. M. R. Hull. No. 1,154,399; Sept. 21; Gaz. vol. 218; p. 788.
- Vehicle bolster-spring. W. T. Shaver. No. 1,135,213; Apr. 13; Gaz. vol. 213; p. 445.
- Vehicle bow-socket. J. C. Coss. No. 1,141,527; June 1; Gaz. vol. 215; p. 158.
- Vehicle bow support and fastener. P. Broadbooks. No. 1,126,948; Feb. 2; Gaz. vol. 211; p. 99.
- Vehicle-brake. H. W. Alden. No. 1,135,148; Apr. 13; Gaz. vol. 213; p. 425.
- Vehicle-brake. J. A. Duke. No. 1,134,597; Apr. 6; Gaz. vol. 213; p. 187.
- Vehicle-brake. L. C. Freeman. No. 1,162,048; Nov. 30; Gaz. vol. 220; p. 1457.
- Vehicle-brake. J. Hartman. No. 1,142,880; June 15; Gaz. vol. 215; p. 705.
- Vehicle-brake. E. Hays. No. 1,135,897; Apr. 13; Gaz. vol. 213; p. 685.
- Vehicle-brake. A. G. Helfer. No. 1,138,561; May 4; Gaz. vol. 214; p. 293.
- Vehicle-brake. R. Huff. No. 1,147,728; July 27; Gaz. vol. 216; p. 1030.
- Vehicle-brake. E. C. Jenkins. No. 1,145,592; July 6; Gaz. vol. 216; p. 215.
- Vehicle-brake. R. E. Relyea. No. 1,143,996; June 22; Gaz. vol. 215; p. 1117.
- Vehicle-brake. W. E. Roberson. No. 1,143,320; June 15; Gaz. vol. 215; p. 861.
- Vehicle-brake. F. Van der Straeten. No. 1,129,249; Feb. 23; Gaz. vol. 211; p. 1029.
- Vehicle-brake. D. P. Weir. No. 1,134,570; Apr. 6; Gaz. vol. 213; p. 178.
- Vehicle-brake. J. M. White. No. 1,124,084; Jan. 5; Gaz. vol. 210; p. 301.
- Vehicle brake and lock. G. W. McKinny. No. 1,166,138; Dec. 28; Gaz. vol. 221; p. 1316.
- Vehicle-brake, Automatic. M. Imamura. No. 1,123,538; Jan. 5; Gaz. vol. 210; p. 117.
- Vehicle-brake, Automatic. C. H. Likely. No. 1,137,500; Apr. 27; Gaz. vol. 213; p. 1334.

Alphabetical list of inventions—Continued.

- Vehicle-brake, Automatic. J. T. Stephens. No. 1,137,095; Apr. 27; Gaz. vol. 213; p. 1188.
- Vehicle-brake, Emergency. D. E. Schimmel. No. 1,150,707; Aug. 17; Gaz. vol. 217; p. 954.
- Vehicle brake, Motor-. J. E. Stone. No. 1,153,726; Sept. 14; Gaz. vol. 218; p. 521.
- Vehicle buffer, Motor-. G. A. Lyon. No. 1,140,909; May 25; Gaz. vol. 214; p. 1229.
- Vehicle-canopy. J. L. Kollenborn. No. 1,130,299; Mar. 2; Gaz. vol. 212; p. 159.
- Vehicle canopy-tops, Curtain-support for. E. A. Nelson. No. 1,160,947; Nov. 16; Gaz. vol. 220; p. 980.
- Vehicle, Changeable. O. T. Aasen. No. 1,164,051; Dec. 14; Gaz. vol. 221; p. 507.
- Vehicle, Coaster-. B. A. Cole and R. E. Bondurant. No. 1,123,686; Jan. 5; Gaz. vol. 210; p. 167.
- Vehicle construction. R. C. Bartlett. No. 1,156,875; Oct. 19; Gaz. vol. 219; p. 594.
- Vehicle construction, Motor-. G. D. Chiville. No. 1,165,848; Dec. 28; Gaz. vol. 221; p. 1212.
- Vehicle control. E. A. Sperry. No. 1,137,804; May 4; Gaz. vol. 214; p. 29.
- Vehicle control mechanism, Motor-. N. E. Wahlberg. No. 1,126,925; Feb. 2; Gaz. vol. 211; p. 91.
- Vehicle control system. J. T. Cade. No. 1,140,356; May 25; Gaz. vol. 214; p. 1034.
- Vehicle controlling mechanism, Motor-. E. K. Conover. No. 1,143,361; June 15; Gaz. vol. 215; p. 875.
- Vehicle controlling mechanism, Motor-. H. H. Shelters. No. 1,141,421; June 1; Gaz. vol. 215; p. 121.
- Vehicle, Convertible. J. Rittchen. No. 1,163,460; Dec. 7; Gaz. vol. 221; p. 254.
- Vehicle, Convertible motor-. J. Butterworth. No. 1,132,435; Mar. 16; Gaz. vol. 212; p. 981.
- Vehicle-coupling. T. Brown. No. 1,163,611; Dec. 7; Gaz. vol. 221; p. 307.
- Vehicle-coupling. M. J. Todd. No. 1,136,564; Apr. 20; Gaz. vol. 213; p. 962.
- Vehicle cranking device, Motor-. H. C. Stitt. No. 1,129,026; Feb. 16; Gaz. vol. 211; p. 916.
- Vehicle curtain-fastener. F. Laible. No. 1,157,312; Oct. 19; Gaz. vol. 219; p. 751.
- Vehicle curtain-mounting. J. N. Collins. (Reissue.) No. 14,026; Dec. 7; Gaz. vol. 221; p. 314.
- Vehicle-curtains, Detachable light for. A. Loomis. No. 1,125,352; Jan. 19; Gaz. vol. 210; p. 838.
- Vehicle cushioning means. J. A. and D. L. Young. No. 1,149,882; Aug. 10; Gaz. vol. 217; p. 602.
- Vehicle, Delivery-. M. Workman. No. 1,146,296; July 13; Gaz. vol. 216; p. 482.
- Vehicle demonstrating and testing device. B. Bond. No. 1,155,126; Sept. 28; Gaz. vol. 218; p. 1066.
- Vehicle direction-indicator. A. W. Youngkvist. No. 1,140,229; May 18; Gaz. vol. 214; p. 955.
- Vehicle direction-indicator, Motor-. S. F. Douglass. No. 1,165,949; Dec. 28; Gaz. vol. 221; p. 1247.
- Vehicle door-fastener. W. Harter and A. A. Stephens. No. 1,132,341; Mar. 16; Gaz. vol. 212; p. 947.
- Vehicle door-lock. A. J. Scholfield and J. E. Redman. No. 1,154,439; Sept. 21; Gaz. vol. 218; p. 801.
- Vehicle door-operating mechanism. G. H. Wemple. No. 1,150,468; Aug. 17; Gaz. vol. 217; p. 871.
- Vehicle draft attachment. O. R. Manville. No. 1,124,484; Jan. 12; Gaz. vol. 210; p. 493.
- Vehicle draft connection. W. M. Ricketts. No. 1,126,281; Jan. 26; Gaz. vol. 210; p. 1202.
- Vehicle drive mechanism. W. E. Bock. No. 1,144,752; June 29; Gaz. vol. 215; p. 1408.
- Vehicle drive mechanism. A. P. Brush. No. 1,130,793; Mar. 9; Gaz. vol. 212; p. 366.
- Vehicle-drive, Universal. O. O. Hootman. No. 1,144,845; June 29; Gaz. vol. 215; p. 1441.
- Vehicle driving and steering mechanism, Motor-. F. I. and B. P. Remy and A. Berger. No. 1,128,818; Feb. 16; Gaz. vol. 211; p. 842.
- Vehicle driving-gear, Mechanically-propelled-. A. S. Christensen. No. 1,129,643; Feb. 23; Gaz. vol. 211; p. 1167.
- Vehicle driving mechanism. J. Buchli. No. 1,141,764; June 1; Gaz. vol. 215; p. 238.
- Vehicle driving mechanism, Motor-. W. J. Evans. No. 1,156,766; Oct. 12; Gaz. vol. 219; p. 527.
- Vehicle driving mechanism, Motor-. R. E. Hamilton. No. 1,126,992; Feb. 2; Gaz. vol. 211; p. 115.
- Vehicle driving mechanism, Motor-. J. P. Schmit. No. 1,129,021; Feb. 16; Gaz. vol. 211; p. 915.
- Vehicle, Dumping-. E. J. Bring. No. 1,153,369; Sept. 14; Gaz. vol. 218; p. 394.
- Vehicle, Dumping-. K. G. F. Conrad. No. 1,160,379; Nov. 16; Gaz. vol. 220; p. 777.
- Vehicle, Dumping-. W. Y. Gambee. No. 1,141,113; June 1; Gaz. vol. 215; p. 8.
- Vehicle, Dumping-. G. Schlatter. No. 1,123,391; Jan. 5; Gaz. vol. 210; p. 67.
- Vehicle dust-guard. T. C. Dobbins. No. 1,125,274; Jan. 19; Gaz. vol. 210; p. 811.
- Vehicle, Electric motor-. F. A. Lambert and F. H. Hardy. No. 1,138,122; May 4; Gaz. vol. 214; p. 142.
- Vehicle, Electrically-propelled. E. Cross. No. 1,154,293; Sept. 21; Gaz. vol. 218; p. 750.
- Vehicle, Electrically-propelled. J. M. Klingensmith. No. 1,165,784; Dec. 28; Gaz. vol. 221; p. 1191.
- Vehicle-elevator. H. E. Shumway and W. T. Scholz. No. 1,136,726; Apr. 20; Gaz. vol. 213; p. 1020.
- Vehicle-elevator. H. E. Shumway and W. T. Scholz. No. 1,144,004; June 22; Gaz. vol. 215; p. 1120.
- Vehicle emergency running-gear. R. F. Meiners. No. 1,163,354; Dec. 7; Gaz. vol. 221; p. 217.
- Vehicle equalizing device. C. H. Martin. No. 1,144,943; June 29; Gaz. vol. 215; p. 1473.
- Vehicle extension drive-shaft, Motor-. G. S. Davison. No. 1,163,643; Dec. 14; Gaz. vol. 221; p. 362.
- Vehicle-fender. O. L. Anderson. No. 1,132,546; Mar. 23; Gaz. vol. 212; p. 1068.
- Vehicle-fender. J. M. Doty. No. 1,129,179; Feb. 23; Gaz. vol. 211; p. 1005.
- Vehicle-fender. E. S. Jones. No. 1,152,320; Aug. 31; Gaz. vol. 217; p. 1611.
- Vehicle-fender. J. O'Leary. No. 1,126,558; Jan. 26; Gaz. vol. 210; p. 1304.
- Vehicle-fender. H. Wiesenfeld. No. 1,147,992; July 27; Gaz. vol. 216; p. 1123.
- Vehicle-fender, Foldable. P. Chovanecz. No. 1,142,490; June 8; Gaz. vol. 215; p. 531.
- Vehicle fender, Motor-. J. W. Saunders and O. K. Forster. No. 1,144,869; June 29; Gaz. vol. 215; p. 1449.
- Vehicle fender, Motor-. W. Wimpfheimer. No. 1,146,830; July 20; Gaz. vol. 216; p. 689.
- Vehicle fender, Moving-. P. G. Owen. No. 1,163,031; Dec. 7; Gaz. vol. 221; p. 103.
- Vehicle fender, Wheeled-. L. V. Gregson and A. P. Gough. No. 1,143,823; June 22; Gaz. vol. 215; p. 1057.
- Vehicle, Folding. S. Day. No. 1,136,659; Apr. 20; Gaz. vol. 213; p. 996.
- Vehicle folding top. N. Holden. No. 1,147,091; July 20; Gaz. vol. 216; p. 780.
- Vehicle folding top. N. Holden. No. 1,155,728; Oct. 5; Gaz. vol. 219; p. 141.
- Vehicle, Foot-propelled. J. F. White. No. 1,148,419; July 27; Gaz. vol. 216; p. 1275.
- Vehicle-frame. M. S. Chapin. No. 1,153,602; Sept. 14; Gaz. vol. 218; p. 478.
- Vehicle-frame. W. H. Gamble. No. 1,134,952; Apr. 6; Gaz. vol. 213; p. 309.
- Vehicle frame and body construction, Motor-. E. A. Nelson. No. 1,143,987; June 22; Gaz. vol. 215; p. 1114.
- Vehicle frame, Motor-. C. E. Baker and E. M. De Long. No. 1,125,442; Jan. 19; Gaz. vol. 210; p. 870.
- Vehicle frame, Motor-. A. W. Medhurst. No. 1,128,802; Feb. 16; Gaz. vol. 211; p. 835.
- Vehicle frame suspension and shock-absorber. C. Simon. No. 1,163,476; Dec. 7; Gaz. vol. 221; p. 259.
- Vehicle-frames from their axles, Means for spring-supporting. A. A. Remington. No. 1,149,084; Aug. 3; Gaz. vol. 217; p. 211.
- Vehicle front-end construction. R. L. Boyd. No. 1,158,168; Oct. 26; Gaz. vol. 219; p. 1112.
- Vehicle front running-gear. M. L. Johnson. No. 1,135,939; Apr. 13; Gaz. vol. 213; p. 698.
- Vehicle-gate and means for mounting same. W. S. Mendon. No. 1,142,264; June 8; Gaz. vol. 215; p. 451.
- Vehicle-gear. C. A. Wiberg. No. 1,163,731; Dec. 14; Gaz. vol. 221; p. 394.
- Vehicle-gear. F. E. Wilcox. No. 1,128,276; Feb. 9; Gaz. vol. 211; p. 605.
- Vehicle guiding mechanism. G. W. Bulley. No. 1,136,652; Apr. 20; Gaz. vol. 213; p. 993.
- Vehicle-heater. W. H. Miller. No. 1,164,841; Dec. 21; Gaz. vol. 221; p. 823.
- Vehicle heating attachment, Motor-. G. C. Wolfe. No. 1,165,643; Dec. 28; Gaz. vol. 221; p. 1142.
- Vehicle-hood. A. S. Cheston. No. 1,158,443; Nov. 2; Gaz. vol. 220; p. 11.
- Vehicle hood, Motor-. C. F. Johnson. No. 1,147,801; July 27; Gaz. vol. 216; p. 1055.
- Vehicle, Horse-drawn. J. P. Brownlee. No. 1,138,352; May 4; Gaz. vol. 214; p. 223.
- Vehicle-inclosure. O. L. Herron. No. 1,142,959; June 15; Gaz. vol. 215; p. 733.
- Vehicle indicating device, Motor-. H. Kramer. No. 1,124,463; Jan. 12; Gaz. vol. 210; p. 484.
- Vehicle-indicator. F. H. Fielding and F. E. Lewis, 2d. No. 1,141,701; June 1; Gaz. vol. 215; p. 218.
- Vehicle-indicator. J. F. Frazer. No. 1,157,157; Oct. 19; Gaz. vol. 219; p. 695.
- Vehicle-indicator. H. K. Hodgeboom. No. 1,142,038; June 8; Gaz. vol. 215; p. 372.
- Vehicle-indicator. L. J. Horan. No. 1,161,130; Nov. 23; Gaz. vol. 220; p. 1089.
- Vehicle-jack. C. G. Ette. No. 1,158,192; Oct. 26; Gaz. vol. 219; p. 1121.
- Vehicle-jack. P. J. A. Schnoor. No. 1,134,233; Apr. 6; Gaz. vol. 213; p. 55.
- Vehicle-jack. C. E. Warner. No. 1,139,243; May 11; Gaz. vol. 214; p. 572.
- Vehicle-jack. C. E. Warner. No. 1,158,754; Nov. 2; Gaz. vol. 220; p. 120.
- Vehicle jack and turn-table. J. Hajduk. No. 1,139,516; May 18; Gaz. vol. 214; p. 704.
- Vehicle jack, Motor-. J. A. Johnston and C. D. Jacobs. No. 1,151,106; Aug. 24; Gaz. vol. 217; p. 1148.
- Vehicle lift-jack. J. H. Burkholder. No. 1,161,610; Nov. 23; Gaz. vol. 220; p. 1259.

- Vehicle lifting appliance. E. B. Wills and L. W. Reck. No. 1,145,729; July 6; Gaz. vol. 216; p. 265.
- Vehicle lighting system. H. L. Wohlers. No. 1,157,748; Oct. 26; Gaz. vol. 219; p. 966.
- Vehicle-lights, Cord-reel for. B. E. McCoy and K. Nash. No. 1,125,858; Jan. 19; Gaz. vol. 210; p. 1016.
- Vehicle loading and unloading mechanism. W. L. Moreland. No. 1,132,960; Mar. 23; Gaz. vol. 212; p. 1222.
- Vehicle-lock. O. E. Braun. No. 1,158,891; Nov. 2; Gaz. vol. 220; p. 170.
- Vehicle lock, Motor-. S. Seckendorf. No. 1,151,830; Aug. 31; Gaz. vol. 217; p. 1443.
- Vehicle luggage and tire carrier, Combined. H. E. Coffin. No. 1,161,028; Nov. 23; Gaz. vol. 220; p. 1053.
- Vehicle, Motor-. W. Barber. No. 1,153,536; Sept. 14; Gaz. vol. 218; p. 455.
- Vehicle, Motor-. W. Barber. No. 1,153,537; Sept. 14; Gaz. vol. 218; p. 455.
- Vehicle, Motor-. W. P. Bradshaw. No. 1,138,447; May 4; Gaz. vol. 214; p. 256.
- Vehicle, Motor-. H. D. Church. No. 1,158,638; Nov. 2; Gaz. vol. 220; p. 81.
- Vehicle, Motor-. A. Coleman. No. 1,131,678; Mar. 16; Gaz. vol. 212; p. 706.
- Vehicle, Motor-. E. P. Cowles. No. 1,123,492; Jan. 5; Gaz. vol. 210; p. 100.
- Vehicle, Motor-. E. P. Cowles. No. 1,165,496; Dec. 28; Gaz. vol. 221; p. 1090.
- Vehicle, Motor-. C. E. Duryea. No. 1,149,431; Aug. 10; Gaz. vol. 217; p. 440.
- Vehicle, Motor-. L. H. Dyer. No. 1,125,079; Jan. 19; Gaz. vol. 210; p. 739.
- Vehicle, Motor-. L. H. Dyer. No. 1,139,853; May 18; Gaz. vol. 214; p. 823.
- Vehicle, Motor-. P. Forschler. No. 1,154,500; Sept. 21; Gaz. vol. 218; p. 821.
- Vehicle, Motor-. O. Gardner. No. 1,154,755; Sept. 28; Gaz. vol. 218; p. 938.
- Vehicle, Motor-. E. Gruenfeldt. No. 1,139,674; May 18; Gaz. vol. 214; p. 761.
- Vehicle, Motor-. T. Hedges. No. 1,135,938; Apr. 13; Gaz. vol. 213; p. 697.
- Vehicle, Motor-. J. A. Hill. No. 1,131,781; Mar. 16; Gaz. vol. 212; p. 743.
- Vehicle, Motor-. R. Huff. No. 1,132,850; Mar. 23; Gaz. vol. 212; p. 1183.
- Vehicle, Motor-. R. Huff. No. 1,142,257; June 8; Gaz. vol. 215; p. 449.
- Vehicle, Motor-. R. Huff. No. 1,148,842; Aug. 3; Gaz. vol. 217; p. 128.
- Vehicle, Motor-. O. E. Hunt. No. 1,147,865; July 27; Gaz. vol. 216; p. 1078.
- Vehicle, Motor-. O. E. Hunt. No. 1,160,287; Nov. 16; Gaz. vol. 220; p. 745.
- Vehicle, Motor-. H. B. Joy. No. 1,161,389; Nov. 23; Gaz. vol. 220; p. 1183.
- Vehicle, Motor-. H. Kinnel. No. 1,154,321; Sept. 21; Gaz. vol. 218; p. 760.
- Vehicle, Motor-. S. B. Kurtz. No. 1,152,821; Sept. 7; Gaz. vol. 218; p. 162.
- Vehicle, Motor-. J. M. Lansden, Jr. No. 1,147,411; July 20; Gaz. vol. 216; p. 893.
- Vehicle, Motor-. W. A. Lee. No. 1,155,250; Sept. 28; Gaz. vol. 218; p. 1106.
- Vehicle, Motor-. J. C. Lobato. No. 1,136,605; Apr. 20; Gaz. vol. 213; p. 976.
- Vehicle, Motor-. A. Loomis. No. 1,131,395; Mar. 9; Gaz. vol. 212; p. 572.
- Vehicle, Motor-. A. Loomis. No. 1,148,697; Aug. 3; Gaz. vol. 217; p. 77.
- Vehicle, Motor-. A. Loomis. No. 1,157,878; Oct. 26; Gaz. vol. 219; p. 1010.
- Vehicle, Motor-. A. Loomis. No. 1,157,879; Oct. 26; Gaz. vol. 219; p. 1010.
- Vehicle, Motor-. H. H. Marker. No. 1,136,026; Apr. 20; Gaz. vol. 213; p. 771.
- Vehicle, Motor-. R. B. Morton. No. 1,162,640; Nov. 30; Gaz. vol. 220; p. 1658.
- Vehicle, Motor-. W. H. Muzzy. No. 1,145,208; July 6; Gaz. vol. 216; p. 81.
- Vehicle, Motor-. W. H. Muzzy. No. 1,161,006; Nov. 16; Gaz. vol. 220; p. 1000.
- Vehicle, Motor-. J. Neznalski and J. Maslanik. No. 1,157,174; Oct. 19; Gaz. vol. 219; p. 701.
- Vehicle, Motor-. D. R. and G. K. Parsons. No. 1,147,043; July 20; Gaz. vol. 216; p. 764.
- Vehicle, Motor-. L. S. Pfouts. No. 1,157,803; Oct. 26; Gaz. vol. 219; p. 983.
- Vehicle, Motor-. E. Schaefer. No. 1,159,107; Nov. 2; Gaz. vol. 220; p. 241.
- Vehicle, Motor-. G. W. Schwoob. No. 1,123,400; Jan. 5; Gaz. vol. 210; p. 70.
- Vehicle, Motor-. W. I. Twombly. No. 1,126,592; Jan. 26; Gaz. vol. 210; p. 1317.
- Vehicle, Motor-. T. G. Van Sant. No. 1,156,853; Oct. 12; Gaz. vol. 219; p. 558.
- Vehicle, Motor-. J. G. Vincent. No. 1,147,056; July 20; Gaz. vol. 216; p. 769.
- Vehicle, Motor-. J. G. Vincent. No. 1,157,068; Oct. 19; Gaz. vol. 219; p. 664.
- Vehicle, Motor-. F. E. Watts and D. T. Hastings. No. 1,158,602; Nov. 2; Gaz. vol. 220; p. 69.
- Vehicle, Motor-propelled. W. Schierding. No. 1,142,204; June 8; Gaz. vol. 215; p. 429.
- Vehicle, Motor-propelled. J. Sonnenberg. No. 1,129,748; Feb. 23; Gaz. vol. 211; p. 1200.
- Vehicle movement-controlling means. P. J. Simmen. No. 1,150,309; Aug. 17; Gaz. vol. 217; p. 817.
- Vehicle moving attachment, Motor-. S. M. Wetzel. No. 1,138,915; May 11; Gaz. vol. 214; p. 457.
- Vehicle mud-guard, Motor-. H. Markham. No. 1,129,702; Feb. 23; Gaz. vol. 211; p. 1185.
- Vehicle, Passenger-. A. F. Paul. No. 1,137,893; May 4; Gaz. vol. 214; p. 59.
- Vehicle, Passenger-. A. F. Paul and A. J. Tanner. No. 1,141,408; June 1; Gaz. vol. 215; p. 116.
- Vehicle, Passenger-. R. T. Senter. No. 1,125,192; Jan. 19; Gaz. vol. 210; p. 780.
- Vehicle, Passenger-. R. T. Senter. No. 1,130,026; Mar. 2; Gaz. vol. 212; p. 64.
- Vehicle, Passenger-. A. J. Tanner. No. 1,133,678; Mar. 30; Gaz. vol. 212; p. 1517.
- Venue pneumatic spring. W. W. Annable. No. 1,130,656; Mar. 2; Gaz. vol. 212; p. 284.
- Vehicle, Portable-track. J. Eberhard. No. 1,151,251; Aug. 24; Gaz. vol. 217; p. 1199.
- Vehicle power transmission, Motor-. E. J. Wendle. No. 1,148,879; Aug. 3; Gaz. vol. 217; p. 140.
- Vehicle propeller-actuating mechanism. R. C. Sayer. No. 1,156,712; Oct. 12; Gaz. vol. 219; p. 508.
- Vehicle propelling mechanism. A. Boyd. No. 1,126,947; Feb. 2; Gaz. vol. 211; p. 99.
- Vehicle-rack. G. S. Washburn. No. 1,125,610; Jan. 19; Gaz. vol. 210; p. 928.
- Vehicle rain and snow shield. D. F. and C. B. Cowell. No. 1,155,705; Oct. 5; Gaz. vol. 219; p. 133.
- Vehicle-raiser. C. D. Tompkins. No. 1,146,671; July 13; Gaz. vol. 216; p. 614.
- Vehicle raising device. H. Lohmiller, A. Claus, and A. Stamler. No. 1,161,706; Nov. 23; Gaz. vol. 220; p. 1292.
- Vehicle rear-end signal. G. J. Wohltmann. No. 1,123,454; Jan. 5; Gaz. vol. 210; p. 88.
- Vehicle rear indicator. G. A. Laubersheimer. No. 1,124,030; Jan. 12; Gaz. vol. 210; p. 686.
- Vehicle retarding mechanism, Motor-. E. Moewes. No. 1,144,372; June 29; Gaz. vol. 215; p. 1279.
- Vehicle, Road-. W. E. Meeham. No. 1,135,461; Apr. 13; Gaz. vol. 213; p. 531.
- Vehicle runner, Wheeled-. T. W. Robertson. No. 1,123,800; Jan. 5; Gaz. vol. 210; p. 206.
- Vehicle running-gear. F. L. Burns. No. 1,160,258; Nov. 16; Gaz. vol. 220; p. 735.
- Vehicle running-gear. R. B. Fageol. No. 1,160,499; Nov. 16; Gaz. vol. 220; p. 819.
- Vehicle running-gear. E. G. Schleicher. No. 1,149,150; Aug. 3; Gaz. vol. 217; p. 234.
- Vehicle running-gear, Motor-. D. M. Dearing. No. 1,155,801; Oct. 5; Gaz. vol. 219; p. 167.
- Vehicle running-gear, Stabilizing mechanism for. W. E. Bock. No. 1,138,183; May 4; Gaz. vol. 214; p. 162.
- Vehicle running-gear, Wheeled-. R. H. Moore. No. 1,126,251; Jan. 26; Gaz. vol. 210; p. 1193.
- Vehicle safety appliance. H. O. Johnson. No. 1,129,985; Mar. 2; Gaz. vol. 212; p. 52.
- Vehicle safety attachment. H. H. McCormick. No. 1,142,449; June 8; Gaz. vol. 215; p. 518.
- Vehicle safety device, Motor-. P. Haworth. No. 1,127,241; Feb. 2; Gaz. vol. 211; p. 203.
- Vehicle safety device, Motor-driven-road-. M. Clark. No. 1,127,406; Feb. 9; Gaz. vol. 211; p. 299.
- Vehicle safety life-guard. J. E. Dobson. No. 1,145,004; July 6; Gaz. vol. 216; p. 9.
- Vehicle-scotch. J. H. Holt. No. 1,141,798; June 1; Gaz. vol. 215; p. 249.
- Vehicle-seat. H. E. Blood. No. 1,125,801; Jan. 19; Gaz. vol. 210; p. 998.
- Vehicle-seat. J. Dodd. No. 1,131,487; Mar. 9; Gaz. vol. 212; p. 605.
- Vehicle-seat. G. Hill. No. 1,161,051; Nov. 23; Gaz. vol. 220; p. 1061.
- Vehicle-seat. A. W. Pattison. No. 1,143,310; June 15; Gaz. vol. 215; p. 857.
- Vehicle-seat. D. Warner. No. 1,150,982; Aug. 24; Gaz. vol. 217; p. 1106.
- Vehicle seat attachment. D. Warner. No. 1,147,771; July 27; Gaz. vol. 216; p. 1044.
- Vehicle-seat, Collapsible. F. Kiehler. No. 1,156,408; Oct. 12; Gaz. vol. 219; p. 402.
- Vehicle seat construction. J. E. Luse. No. 1,157,880; Oct. 26; Gaz. vol. 219; p. 1011.
- Vehicle seat-fastener. T. H. Parry. No. 1,149,682; Aug. 10; Gaz. vol. 217; p. 532.
- Vehicle, Self-jacking. L. C. Zega. No. 1,166,398; Dec. 28; Gaz. vol. 221; p. 1411.
- Vehicle, Self-loading. O. W. Bradsher. No. 1,157,291; Oct. 19; Gaz. vol. 219; p. 743.
- Vehicle, Self-propelled. J. B. Entz. No. 1,164,588; Dec. 14; Gaz. vol. 221; p. 692.
- Vehicle shaft-poles, Splice for. J. M. Clark. No. 1,158,895; Nov. 2; Gaz. vol. 220; p. 171.
- Vehicle-signal. R. E. Boyle. No. 1,142,016; June 8; Gaz. vol. 215; p. 364.

Alphabetical list of inventions—Continued.

- Vehicle-signal. S. F. Douglass. No. 1,146,693; July 13; Gaz. vol. 216; p. 621.
- Vehicle-signal. C. Heidemann. No. 1,163,918; Dec. 14; Gaz. vol. 221; p. 459.
- Vehicle-signal. O. Menrad and A. E. Wittig. No. 1,124,497; Jan. 12; Gaz. vol. 210; p. 497.
- Vehicle-signal. L. O'Brien. No. 1,140,393; May 25; Gaz. vol. 214; p. 1048.
- Vehicle-signal. C. A. Switzer. No. 1,128,547; Feb. 16; Gaz. vol. 211; p. 749.
- Vehicle-signal. C. A. Switzer. No. 1,137,364; Apr. 27; Gaz. vol. 213; p. 1287.
- Vehicle-signal. R. L. Warburton and H. Wolfe. No. 1,165,472; Dec. 28; Gaz. vol. 221; p. 1081.
- Vehicle signal apparatus, Motor-. J. A. Wilhelm. No. 1,142,650; June 8; Gaz. vol. 215; p. 585.
- Vehicle-signal. Automatic. C. Koch. No. 1,129,691; Feb. 23; Gaz. vol. 211; p. 1181.
- Vehicle signal device. J. C. Edwards. No. 1,138,361; May 4; Gaz. vol. 214; p. 226.
- Vehicle signal, Motor-. E. B. Hopkins. No. 1,144,903; June 29; Gaz. vol. 215; p. 1460.
- Vehicle signaling device, Motor-. W. J. Burke. No. 1,133,002; Mar. 23; Gaz. vol. 212; p. 1238.
- Vehicle signaling device, Motor-. W. J. Burke. No. 1,133,003; Mar. 23; Gaz. vol. 212; p. 1239.
- Vehicle signaling mechanism. H. E. Carr. No. 1,123,845; Jan. 5; Gaz. vol. 210; p. 221.
- Vehicle speed-control device. W. S. Menden. No. 1,137,882; May 4; Gaz. vol. 214; p. 55.
- Vehicle speed-controlling device, Motor-. W. F. Vallier. No. 1,166,023; Dec. 28; Gaz. vol. 221; p. 1273.
- Vehicle speed-controlling mechanism. F. T. Jones. No. 1,131,637; Mar. 9; Gaz. vol. 212; p. 658.
- Vehicle speed-regulator, Motor-. M. R. Hutchison. No. 1,142,099; June 8; Gaz. vol. 215; p. 394.
- Vehicle-spindle. W. L. Black. No. 1,140,792; May 25; Gaz. vol. 214; p. 1186.
- Vehicle splash-preventer, Road-. A. Dechy. No. 1,142,680; June 8; Gaz. vol. 215; p. 595.
- Vehicle-spring. C. G. Booth and F. Sanks. No. 1,134,030; Mar. 30; Gaz. vol. 212; p. 1636.
- Vehicle-spring. C. W. Crawford. No. 1,124,708; Jan. 12; Gaz. vol. 210; p. 573.
- Vehicle-spring. C. W. Crawford. No. 1,130,380; Mar. 2; Gaz. vol. 212; p. 187.
- Vehicle-spring. P. B. Donahoo. No. 1,129,796; Feb. 23; Gaz. vol. 211; p. 1217.
- Vehicle-spring. W. Dornan. No. 1,139,504; May 18; Gaz. vol. 214; p. 701.
- Vehicle-spring. J. L. Dougan. No. 1,129,560; Feb. 23; Gaz. vol. 211; p. 1139.
- Vehicle-spring. J. Frosig and L. W. Walstrom. No. 1,125,505; Jan. 19; Gaz. vol. 210; p. 891.
- Vehicle-spring. J. O. Gillfillan. No. 1,153,058; Sept. 7; Gaz. vol. 218; p. 246.
- Vehicle-spring. J. O. Hague. No. 1,135,577; Apr. 13; Gaz. vol. 213; p. 573.
- Vehicle-spring. R. E. Hammer. No. 1,147,503; July 20; Gaz. vol. 216; p. 925.
- Vehicle-spring. R. Haupt. No. 1,156,996; Oct. 19; Gaz. vol. 219; p. 638.
- Vehicle-spring. L. D. Jones. No. 1,145,686; July 6; Gaz. vol. 216; p. 248.
- Vehicle-spring. E. Koeb and R. P. Thompson. No. 1,156,909; Oct. 19; Gaz. vol. 219; p. 607.
- Vehicle-spring. M. C. Krarup. No. 1,137,145; Apr. 27; Gaz. vol. 213; p. 1206.
- Vehicle-spring. A. M. Lane. No. 1,137,987; May 4; Gaz. vol. 214; p. 92.
- Vehicle-spring. M. M. McIntyre. No. 1,135,036; Apr. 13; Gaz. vol. 213; p. 385.
- Vehicle-spring. M. M. McIntyre. No. 1,141,194; June 1; Gaz. vol. 215; p. 36.
- Vehicle-spring. M. M. McIntyre. No. 1,155,752; Oct. 5; Gaz. vol. 219; p. 148.
- Vehicle-spring. J. J. Moran. No. 1,154,999; Sept. 28; Gaz. vol. 218; p. 1019.
- Vehicle-spring. O. M. Nacker. No. 1,126,832; Feb. 2; Gaz. vol. 211; p. 60.
- Vehicle-spring. R. E. Olsen. No. 1,146,273; July 13; Gaz. vol. 216; p. 474.
- Vehicle-spring. F. J. Palmer. No. 1,156,546; Oct. 12; Gaz. vol. 219; p. 450.
- Vehicle-spring. W. J. Parsons. No. 1,155,265; Sept. 28; Gaz. vol. 218; p. 1110.
- Vehicle-spring. R. R. Potter. No. 1,127,511; Feb. 9; Gaz. vol. 211; p. 338.
- Vehicle-spring. W. H. Smith. No. 1,124,964; Jan. 12; Gaz. vol. 210; p. 663.
- Vehicle-spring. J. G. Utz. No. 1,153,357; Sept. 14; Gaz. vol. 218; p. 390.
- Vehicle-spring. C. H. Wilcken. (Reissue.) No. 13,955; July 27; Gaz. vol. 216; p. 1304.
- Vehicle spring apparatus. T. H. Sparks. No. 1,150,714; Aug. 17; Gaz. vol. 217; p. 956.
- Vehicle spring attachment. A. Collette. No. 1,128,587; Feb. 16; Gaz. vol. 211; p. 762.
- Vehicle spring-bar. A. W. Curtis. No. 1,160,858; Nov. 16; Gaz. vol. 220; p. 948.
- Vehicle-spring, Combination bow and multiple cantaliver. F. N. Sprague. No. 1,165,634; Dec. 28; Gaz. vol. 221; p. 1139.
- Vehicle spring-gear. J. Piehoud. No. 1,147,439; July 20; Gaz. vol. 216; p. 904.
- Vehicle spring-guide. M. W. Morris. No. 1,135,832; Apr. 13; Gaz. vol. 213; p. 663.
- Vehicle spring-lubricator. J. A. and L. F. Mustee. No. 1,159,982; Nov. 9; Gaz. vol. 220; p. 587.
- Vehicle spring mechanism. J. H. Sager. No. 1,136,721; Apr. 20; Gaz. vol. 213; p. 1018.
- Vehicle spring-mounting, Motor-. C. L. Heisler. No. 1,155,062; Sept. 28; Gaz. vol. 218; p. 1042.
- Vehicle-spring, Pneumatic. W. L. Rice. No. 1,160,321; Nov. 16; Gaz. vol. 220; p. 757.
- Vehicle-spring, Reinforced pivotally-mounted. R. C. Hartin. No. 1,163,917; Dec. 14; Gaz. vol. 221; p. 459.
- Vehicle spring-rigging. G. A. Anderson. No. 1,137,720; Apr. 27; Gaz. vol. 213; p. 1406.
- Vehicle spring-rigging. G. A. Anderson. No. 1,137,721; Apr. 27; Gaz. vol. 213; p. 1406.
- Vehicle spring-support. J. W. Kenevel. No. 1,148,590; Aug. 3; Gaz. vol. 217; p. 38.
- Vehicle spring suspension. J. J. Charley. No. 1,137,741; May 4; Gaz. vol. 214; p. 7.
- Vehicle spring suspension. F. W. Erickson. No. 1,151,771; Aug. 31; Gaz. vol. 217; p. 1421.
- Vehicle spring suspension. R. H. Hassler. No. 1,130,897; Mar. 9; Gaz. vol. 212; p. 402.
- Vehicle spring suspension. T. H. Sparks. No. 1,131,281; Mar. 9; Gaz. vol. 212; p. 533.
- Vehicle spring suspension. G. A. Stanton. No. 1,162,414; Nov. 30; Gaz. vol. 220; p. 1584.
- Vehicle spring suspension. C. W. Van Vleet. No. 1,165,350; Dec. 21; Gaz. vol. 221; p. 999.
- Vehicle spring suspension device. V. H. Sears. No. 1,139,909; May 18; Gaz. vol. 214; p. 844.
- Vehicle spring suspension device. J. A. Shearer. No. 1,129,743; Feb. 23; Gaz. vol. 211; p. 1198.
- Vehicle spring suspension device. J. A. Shearer. No. 1,129,744; Feb. 23; Gaz. vol. 211; p. 1199.
- Vehicle spring suspension for absorbing road-shocks. H. House. No. 1,129,680; Feb. 23; Gaz. vol. 211; p. 1178.
- Vehicle spring-wheel. H. C. Brown. No. 1,149,624; Aug. 10; Gaz. vol. 217; p. 511.
- Vehicle-spring with air-cushion. D. B. Adams. No. 1,140,095; May 18; Gaz. vol. 214; p. 911.
- Vehicle-springs, Casing for. A. N. Jeavons. No. 1,135,186; Apr. 13; Gaz. vol. 213; p. 436.
- Vehicle starter attachment, Motor-. F. M. Guy. No. 1,130,814; Mar. 9; Gaz. vol. 212; p. 373.
- Vehicle starting device, Motor-. E. C. Russell. No. 1,155,511; Oct. 5; Gaz. vol. 219; p. 66.
- Vehicle starting device, Motor-. R. F. Webber and G. W. Slater. No. 1,160,474; Nov. 16; Gaz. vol. 220; p. 811.
- Vehicle steering and driving wheel, Motor-. R. H. Rosenberg. No. 1,137,288; Apr. 27; Gaz. vol. 213; p. 1260.
- Vehicle steering and running gear. E. G. Schleicher. No. 1,125,184; Jan. 19; Gaz. vol. 210; p. 777.
- Vehicle steering device. W. H. Appleman. No. 1,135,247; Apr. 13; Gaz. vol. 213; p. 456.
- Vehicle steering device. W. H. Appleman. No. 1,150,161; Aug. 17; Gaz. vol. 217; p. 764.
- Vehicle steering device and antirattler. A. Havens. No. 1,160,888; Nov. 16; Gaz. vol. 220; p. 958.
- Vehicle steering device, Motor-. A. S. Burnell and I. L. Lavender. No. 1,144,754; June 29; Gaz. vol. 215; p. 1409.
- Vehicle-steering device, Motor-. D. J. Sandham. No. 1,166,389; Dec. 28; Gaz. vol. 221; p. 1408.
- Vehicle steering-gear. D. E. Ross. (Reissue.) No. 13,866; Jan. 12; Gaz. vol. 210; p. 689.
- Vehicle steering-gear, Motor-. W. H. Appleman. No. 1,131,590; Mar. 9; Gaz. vol. 212; p. 640.
- Vehicle steering-gear, Motor-. W. H. Appleman. No. 1,159,348; Nov. 9; Gaz. vol. 220; p. 358.
- Vehicle steering-gear, Motor-. J. A. Baucum. No. 1,136,503; Apr. 20; Gaz. vol. 213; p. 941.
- Vehicle steering-gear, Motor-. R. Huff. No. 1,124,444; Jan. 12; Gaz. vol. 210; p. 477.
- Vehicle steering-gear, Motor-. J. M. Scott. No. 1,153,961; Sept. 21; Gaz. vol. 218; p. 637.
- Vehicle steering-gear, Motor-. P. J. Smith. No. 1,126,111; Jan. 26; Gaz. vol. 210; p. 1141.
- Vehicle steering mechanism. J. H. Ayre. No. 1,142,658; June 8; Gaz. vol. 215; p. 588.
- Vehicle steering mechanism. L. J. Weatherwax. No. 1,141,290; June 1; Gaz. vol. 215; p. 72.
- Vehicle steering mechanism, Motor-. C. B. Hepler. No. 1,163,406; Dec. 7; Gaz. vol. 221; p. 235.
- Vehicle steering mechanism, Motor-. R. B. Morton. No. 1,126,551; Jan. 26; Gaz. vol. 210; p. 1301.
- Vehicle steering mechanism, Motor-. F. Neudorff. No. 1,131,729; Mar. 16; Gaz. vol. 212; p. 723.
- Vehicle steering mechanism, Motor-. L. C. Vaughn. No. 1,152,455; Sept. 7; Gaz. vol. 218; p. 26.
- Vehicle-step. J. A. Butcher. No. 1,149,338; Aug. 10; Gaz. vol. 217; p. 407.
- Vehicle-step. J. F. Clarke. No. 1,134,032; Mar. 30; Gaz. vol. 212; p. 1637.
- Vehicle stopping device, Automatic. E. M. Jones. No. 1,142,885; June 15; Gaz. vol. 215; p. 707.

Alphabetical list of inventions—Continued.

- Vehicle storm-front. G. W. Scott. No. 1,142,061; June 8; Gaz. vol. 215; p. 380.
- Vehicle storm-front and sun-shield. Combined. T. S. Crapp. No. 1,138,280; May 4; Gaz. vol. 214; p. 195.
- Vehicle structure. A. J. Erickson. No. 1,162,465; Nov. 30; Gaz. vol. 220; p. 1602.
- Vehicle support-actuating device. J. M. Herrington. No. 1,150,821; Aug. 17; Gaz. vol. 217; p. 993.
- Vehicle suspension. C. H. Smoot. No. 1,158,575; Nov. 2; Gaz. vol. 220; p. 58.
- Vehicle suspension. E. E. Wemp. No. 1,142,468; June 8; Gaz. vol. 215; p. 524.
- Vehicle suspension device. C. Contal. No. 1,140,955; May 25; Gaz. vol. 214; p. 1245.
- Vehicle suspension device. E. V. Hartford. No. 1,154,569; Sept. 21; Gaz. vol. 218; p. 845.
- Vehicle suspension-spring. E. Fuller. No. 1,140,671; May 25; Gaz. vol. 214; p. 1145.
- Vehicle time-recorder. C. E. Larrabee. No. 1,133,045; Mar. 23; Gaz. vol. 212; p. 1255.
- Vehicle-top. G. E. Anderson. No. 1,163,632; Dec. 14; Gaz. vol. 221; p. 358.
- Vehicle-top. G. R. Cooke. No. 1,150,811; Aug. 17; Gaz. vol. 217; p. 990.
- Vehicle-top. W. P. Dorl. No. 1,157,977; Oct. 26; Gaz. vol. 219; p. 1046.
- Vehicle-top. W. P. Dorl. No. 1,162,042; Nov. 30; Gaz. vol. 220; p. 1456.
- Vehicle-top. W. O. Eakin. No. 1,151,930; Aug. 31; Gaz. vol. 217; p. 1476.
- Vehicle-top. L. M. La Roque. No. 1,158,815; Nov. 2; Gaz. vol. 220; p. 143.
- Vehicle-top. A. H. Lichter. No. 1,148,598; Aug. 3; Gaz. vol. 217; p. 41.
- Vehicle-top. A. Moorhouse. No. 1,133,654; Mar. 30; Gaz. vol. 212; p. 1508.
- Vehicle-top. E. G. Odette. No. 1,164,852; Dec. 21; Gaz. vol. 221; p. 827.
- Vehicle-top. G. E. Seidel. No. 1,140,404; May 25; Gaz. vol. 214; p. 1052.
- Vehicle-top. L. C. Shipley. No. 1,136,054; Apr. 20; Gaz. vol. 213; p. 779.
- Vehicle top attachment. C. S. Fall. No. 1,142,317; June 8; Gaz. vol. 215; p. 469.
- Vehicle top-bow clamp. J. P. McGinnis. No. 1,144,659; June 29; Gaz. vol. 215; p. 1374.
- Vehicle top-bow construction. A. H. Stokes. No. 1,149,965; Aug. 10; Gaz. vol. 217; p. 633.
- Vehicle-top, Folding. N. Holden. No. 1,146,162; July 13; Gaz. vol. 216; p. 436.
- Vehicle top-holder. R. C. Wall. No. 1,139,742; May 18; Gaz. vol. 214; p. 784.
- Vehicle top-operating mechanism. D. C. Watt and F. A. Grearson. No. 1,154,463; Sept. 21; Gaz. vol. 218; p. 809.
- Vehicle top raising and lowering mechanism. D. C. Watt and F. A. Grearson. No. 1,144,925; June 29; Gaz. vol. 215; p. 1466.
- Vehicle top raising and lowering mechanism. R. Young. No. 1,149,013; Aug. 3; Gaz. vol. 217; p. 188.
- Vehicle-top side curtain. D. Galloway. No. 1,164,493; Dec. 14; Gaz. vol. 221; p. 660.
- Vehicle-Traction-. J. A. Vansickler. No. 1,160,794; Nov. 16; Gaz. vol. 220; p. 925.
- Vehicle-tractor. A. B. Vernon. No. 1,147,581; July 20; Gaz. vol. 216; p. 952.
- Vehicle transmission. F. C. Avery. No. 1,147,669; July 20; Gaz. vol. 216; p. 983.
- Vehicle turn-table. Portable. J. Lieskovan. No. 1,124,628; Jan. 12; Gaz. vol. 210; p. 545.
- Vehicle, Two-wheeled. V. C. Koons. No. 1,126,033; Jan. 26; Gaz. vol. 210; p. 1112.
- Vehicle warning-indicator. F. Triest. No. 1,147,829; July 27; Gaz. vol. 216; p. 1065.
- Vehicle-wheel. C. T. Allen. No. 1,129,157; Feb. 23; Gaz. vol. 211; p. 997.
- Vehicle-wheel. W. R. Allen and A. McNally. No. 1,143,480; June 15; Gaz. vol. 215; p. 916.
- Vehicle-wheel. B. J. Aurand. No. 1,132,148; Mar. 16; Gaz. vol. 212; p. 876.
- Vehicle-wheel. E. K. Baker. No. 1,155,395; Oct. 5; Gaz. vol. 219; p. 25.
- Vehicle-wheel. E. K. Baker. No. 1,155,397; Oct. 5; Gaz. vol. 219; p. 25.
- Vehicle-wheel. E. K. Baker. No. 1,159,313; Nov. 2; Gaz. vol. 220; p. 315.
- Vehicle-wheel. C. M. Bartholomew. No. 1,151,238; Aug. 24; Gaz. vol. 217; p. 1194.
- Vehicle-wheel. J. B. Bartholomew. No. 1,138,177; May 4; Gaz. vol. 214; p. 161.
- Vehicle-wheel. R. S. Bryant. No. 1,160,254; Nov. 16; Gaz. vol. 220; p. 734.
- Vehicle-wheel. J. J. Butcher. No. 1,142,487; June 8; Gaz. vol. 215; p. 530.
- Vehicle-wheel. J. and C. Cerny. No. 1,139,638; May 18; Gaz. vol. 214; p. 747.
- Vehicle-wheel. J. W. Coburn. No. 1,128,760; Feb. 16; Gaz. vol. 211; p. 820.
- Vehicle-wheel. N. Cornfield. No. 1,158,183; Oct. 26; Gaz. vol. 219; p. 1117.
- Vehicle-wheel. N. Cornfield. No. 1,163,509; Dec. 7; Gaz. vol. 221; p. 270.
- Vehicle-wheel. N. Cornfield. No. 1,163,510; Dec. 7; Gaz. vol. 221; p. 271.
- Vehicle-wheel. G. G. Davis. No. 1,152,150; Aug. 31; Gaz. vol. 217; p. 1554.
- Vehicle-wheel. L. Diesel. No. 1,136,214; Apr. 20; Gaz. vol. 213; p. 836.
- Vehicle-wheel. M. C. Dugger. No. 1,146,314; July 13; Gaz. vol. 216; p. 488.
- Vehicle-wheel. S. H. Easterday. No. 1,164,706; Dec. 21; Gaz. vol. 221; p. 774.
- Vehicle-wheel. B. F. Early. No. 1,132,462; Mar. 16; Gaz. vol. 212; p. 990.
- Vehicle-wheel. L. A. Frayer and C. O. Howard. No. 1,128,595; Feb. 16; Gaz. vol. 211; p. 764.
- Vehicle-wheel. A. C. Gibeault. No. 1,162,474; Nov. 30; Gaz. vol. 220; p. 1606.
- Vehicle-wheel. T. W. Guthrie. No. 1,146,763; July 13; Gaz. vol. 216; p. 646.
- Vehicle-wheel. N. L. Hayden. No. 1,144,473; June 29; Gaz. vol. 215; p. 1313.
- Vehicle-wheel. A. C. Hopkins. No. 1,153,919; Sept. 21; Gaz. vol. 218; p. 622.
- Vehicle-wheel. W. R. Hopson. No. 1,146,796; July 20; Gaz. vol. 216; p. 677.
- Vehicle-wheel. W. L. Howard. No. 1,135,804; Apr. 13; Gaz. vol. 213; p. 652.
- Vehicle-wheel. E. Jones and W. S. Williams. No. 1,125,025; Jan. 12; Gaz. vol. 210; p. 684.
- Vehicle-wheel. M. P. Kelly. No. 1,155,582; Oct. 5; Gaz. vol. 219; p. 89.
- Vehicle-wheel. W. Kingsley. No. 1,135,290; Apr. 13; Gaz. vol. 213; p. 471.
- Vehicle-wheel. C. E. Krebs. No. 1,156,486; Oct. 12; Gaz. vol. 219; p. 430.
- Vehicle-wheel. R. Kronenberg. No. 1,156,153; Oct. 12; Gaz. vol. 219; p. 314.
- Vehicle-wheel. W. W. Krutsch. No. 1,162,079; Nov. 30; Gaz. vol. 220; p. 1470.
- Vehicle-wheel. W. W. Krutsch. No. 1,162,080; Nov. 30; Gaz. vol. 220; p. 1470.
- Vehicle-wheel. H. B. Layman. No. 1,142,334; June 8; Gaz. vol. 215; p. 475.
- Vehicle-wheel. A. J. Mansfield. No. 1,132,787; Mar. 23; Gaz. vol. 212; p. 1159.
- Vehicle-wheel. A. J. Meyer. No. 1,124,319; Jan. 12; Gaz. vol. 210; p. 432.
- Vehicle-wheel. V. M. Moore. No. 1,163,360; Dec. 7; Gaz. vol. 221; p. 220.
- Vehicle-wheel. T. E. Murray. No. 1,132,675; Mar. 23; Gaz. vol. 212; p. 1117.
- Vehicle-wheel. T. E. Murray. No. 1,139,894; May 18; Gaz. vol. 214; p. 838.
- Vehicle-wheel. T. E. Murray. No. 1,139,895; May 18; Gaz. vol. 214; p. 838.
- Vehicle-wheel. T. E. Murray. No. 1,139,896; May 18; Gaz. vol. 214; p. 838.
- Vehicle-wheel. T. E. Murray. No. 1,142,836; June 15; Gaz. vol. 215; p. 688.
- Vehicle-wheel. T. E. Murray. No. 1,149,593; Aug. 10; Gaz. vol. 217; p. 496.
- Vehicle-wheel. T. E. Murray. No. 1,150,293; Aug. 17; Gaz. vol. 217; p. 812.
- Vehicle-wheel. T. E. Murray. No. 1,150,294; Aug. 17; Gaz. vol. 217; p. 812.
- Vehicle-wheel. T. E. Murray. No. 1,156,427; Oct. 12; Gaz. vol. 219; p. 409.
- Vehicle-wheel. W. H. Parham. No. 1,163,258; Dec. 7; Gaz. vol. 221; p. 184.
- Vehicle-wheel. C. M. Petersen. No. 1,140,766; May 25; Gaz. vol. 214; p. 1176.
- Vehicle-wheel. C. V. Popp. No. 1,140,284; May 18; Gaz. vol. 214; p. 973.
- Vehicle-wheel. G. F. Reber. No. 1,129,729; Feb. 23; Gaz. vol. 211; p. 1193.
- Vehicle-wheel. E. Retzlaff. No. 1,134,011; Mar. 30; Gaz. vol. 212; p. 1628.
- Vehicle-wheel. T. Rhodus. No. 1,159,091; Nov. 2; Gaz. vol. 220; p. 235.
- Vehicle-wheel. T. Rhodus. No. 1,159,092; Nov. 2; Gaz. vol. 220; p. 236.
- Vehicle-wheel. J. A. Rhone. No. 1,152,220; Aug. 31; Gaz. vol. 217; p. 1577.
- Vehicle-wheel. L. Risk. No. 1,156,099; Oct. 12; Gaz. vol. 219; p. 296.
- Vehicle-wheel. A. J. Rodriguez. No. 1,128,724; Feb. 16; Gaz. vol. 211; p. 808.
- Vehicle-wheel. F. A. Schaefer. No. 1,156,318; Oct. 12; Gaz. vol. 219; p. 367.
- Vehicle-wheel. J. M. Scheurich. No. 1,132,039; Mar. 16; Gaz. vol. 212; p. 836.
- Vehicle-wheel. J. Schles. No. 1,142,985; June 15; Gaz. vol. 215; p. 742.
- Vehicle-wheel. C. J. Shackelford. No. 1,158,314; Oct. 26; Gaz. vol. 219; p. 1164.
- Vehicle-wheel. T. C. Shepherd, Jr. No. 1,164,554; Dec. 14; Gaz. vol. 221; p. 682.
- Vehicle-wheel. S. T. Sheppard and A. Munro. No. 1,166,013; Dec. 28; Gaz. vol. 221; p. 1270.
- Vehicle-wheel. S. L. Simpson. No. 1,141,429; June 1; Gaz. vol. 215; p. 123.
- Vehicle-wheel. E. H. Sipes. No. 1,160,004; Nov. 9; Gaz. vol. 220; p. 593.

Alphabetical list of inventions—Continued.

- Vehicle-wheel. C. Sjögren. No. 1,164,763; Dec. 21; Gaz. vol. 221; p. 794.
- Vehicle-wheel. A. T. Smith. No. 1,131,965; Mar. 16; Gaz. vol. 212; p. 809.
- Vehicle-wheel. A. T. Smith. No. 1,166,268; Dec. 28; Gaz. vol. 221; p. 1365.
- Vehicle-wheel. G. W. Smith. No. 1,166,416; Dec. 28; Gaz. vol. 221; p. 1417.
- Vehicle-wheel. R. T. Smith, Jr. No. 1,160,779; Nov. 16; Gaz. vol. 220; p. 921.
- Vehicle-wheel. E. Stancliff. No. 1,136,377; Apr. 20; Gaz. vol. 213; p. 895.
- Vehicle-wheel. M. F. Tydings. No. 1,151,423; Aug. 24; Gaz. vol. 217; p. 1254.
- Vehicle-wheel. F. V. Ubezzi. No. 1,144,879; June 29; Gaz. vol. 215; p. 1453.
- Vehicle-wheel. C. O. Vantrease. No. 1,125,220; Jan. 19; Gaz. vol. 210; p. 790.
- Vehicle-wheel. J. R. Vickery. No. 1,154,948; Sept. 28; Gaz. vol. 218; p. 1002.
- Vehicle-wheel. J. H. Wagenhorst. No. 1,160,223; Nov. 16; Gaz. vol. 220; p. 723.
- Vehicle-wheel. J. H. Wagenhorst. No. 1,160,224; Nov. 16; Gaz. vol. 220; p. 723.
- Vehicle-wheel. C. F. Ward and W. H. Clay. No. 1,138,335; May 4; Gaz. vol. 214; p. 217.
- Vehicle-wheel. L. A. Young. No. 1,125,627; Jan. 19; Gaz. vol. 210; p. 934.
- Vehicle-wheel. O. Zancan. No. 1,133,779; Mar. 30; Gaz. vol. 212; p. 1552.
- Vehicle-wheel and demountable rim. F. Carter. No. 1,145,115; July 6; Gaz. vol. 216; p. 50.
- Vehicle-wheel and manufacturing same. H. M. Foulke. No. 1,144,116; June 22; Gaz. vol. 215; p. 1161.
- Vehicle wheel, Common-road. G. E. Doyle and G. Barden. No. 1,141,384; June 1; Gaz. vol. 215; p. 107.
- Vehicle-wheel, Detachable. A. De Coninck. No. 1,141,234; June 1; Gaz. vol. 215; p. 51.
- Vehicle-wheel, Detachable. F. A. Ellis. No. 1,151,450; Aug. 24; Gaz. vol. 217; p. 1263.
- Vehicle-wheel, Pneumatic-tired. M. Clark. No. 1,135,258; Apr. 13; Gaz. vol. 213; p. 460.
- Vehicle-wheel, Resilient. A. P. Giakoumis. No. 1,163,653; Dec. 14; Gaz. vol. 221; p. 365.
- Vehicle-wheel, Resilient. A. Lanzdorf. No. 1,151,109; Aug. 24; Gaz. vol. 217; p. 1149.
- Vehicle-wheel, Resilient. E. S. Morris. No. 1,141,255; June 1; Gaz. vol. 215; p. 58.
- Vehicle-wheel, Resilient. W. J. Peterson. No. 1,158,837; Nov. 2; Gaz. vol. 220; p. 151.
- Vehicle wheel, Road. E. W. Thomas. No. 1,139,924; May 18; Gaz. vol. 214; p. 848.
- Vehicle wheel, Self-propelled. J. McGeorge. No. 1,155,315; Sept. 28; Gaz. vol. 218; p. 1126.
- Vehicle-wheel, Spring. G. W. Harlan. No. 1,123,529; Jan. 5; Gaz. vol. 210; p. 114.
- Vehicle-wheel, Spring. G. B. Hickok. No. 1,151,878; Aug. 31; Gaz. vol. 217; p. 1460.
- Vehicle-wheel, Spring. F. R. Willson. No. 1,156,960; Oct. 19; Gaz. vol. 219; p. 625.
- Vehicle-wheel, Spring. F. R. Willson. No. 1,159,308; Nov. 2; Gaz. vol. 220; p. 313.
- Vehicle-wheel, Spring-controlled. J. Escherich. No. 1,149,432; Aug. 10; Gaz. vol. 217; p. 440.
- Vehicle-wheel with demountable rim. R. S. Bryant. No. 1,153,481; Sept. 14; Gaz. vol. 218; p. 434.
- Vehicle-wheel with demountable rim. R. S. Bryant. No. 1,153,482; Sept. 14; Gaz. vol. 218; p. 435.
- Vehicle-wheel with demountable rim. R. F. Mertz. No. 1,142,350; June 8; Gaz. vol. 215; p. 480.
- Vehicle-wheels, Antislipping device for. J. P. Miller. No. 1,151,371; Aug. 24; Gaz. vol. 217; p. 1236.
- Vehicle, Wheeled. W. F. Schmidt. No. 1,146,107; July 13; Gaz. vol. 216; p. 415.
- Vehicle wind-shield. C. Carlson. No. 1,129,451; Feb. 23; Gaz. vol. 211; p. 1101.
- Vehicle wind-shield. O. M. Edwards. No. 1,143,616; June 22; Gaz. vol. 215; p. 987.
- Vehicle wind-shield, Motor. R. Huff. No. 1,154,313; Sept. 21; Gaz. vol. 218; p. 758.
- Vehicle-windows, Balancing mechanism for. G. B. Münch. No. 1,130,189; Mar. 2; Gaz. vol. 212; p. 121.
- Vehicles, Adjustable sand-shields for. H. H. Fleckenstein. No. 1,165,584; Dec. 28; Gaz. vol. 221; p. 1119.
- Vehicles, Alarm device for motor. F. E. Cline and W. L. Baskerville. No. 1,131,824; Mar. 16; Gaz. vol. 212; p. 760.
- Vehicles and locomotives, Driving. H. Pieper. No. 1,129,227; Feb. 23; Gaz. vol. 211; p. 1021.
- Vehicles and stationary tipping devices, Tipping device for. C. Marq and O. Helson. No. 1,165,890; Dec. 28; Gaz. vol. 221; p. 1227.
- Vehicles and the like, Change-speed mechanism for motor. J. G. MacPherson. No. 1,160,922; Nov. 16; Gaz. vol. 220; p. 970.
- Vehicles, Antidrip subframe for. R. H. and F. H. Bachman. No. 1,148,426; July 27; Gaz. vol. 216; p. 1277.
- Vehicles, Automatic coupling with funnel-shaped head for. K. Künzi. No. 1,145,494; July 6; Gaz. vol. 216; p. 182.
- Vehicles, Automatic foot-throttle for motor. F. L. Smith. No. 1,161,898; Nov. 30; Gaz. vol. 220; p. 1405.
- Vehicles, Automatic lighting control for. J. G. Egerton. No. 1,135,999; Apr. 20; Gaz. vol. 213; p. 762.
- Vehicles, Automatic regulator and safety appliance for the control of motor. H. J. Lyman. No. 1,154,328; Sept. 21; Gaz. vol. 218; p. 763.
- Vehicles, Automatic speed control for. A. G. Helfer. No. 1,138,560; May 4; Gaz. vol. 214; p. 292.
- Vehicles, Auxiliary spring for motor. L. P. Halladay. No. 1,131,370; Mar. 9; Gaz. vol. 212; p. 563.
- Vehicles, Baby-carrier for. O. O. Clark. No. 1,125,005; Jan. 12; Gaz. vol. 210; p. 679.
- Vehicles, Closet for traveling. E. H. Sloman. No. 1,161,895; Nov. 30; Gaz. vol. 220; p. 1404.
- Vehicles, Combined brace and cushioning device for. J. A. Michael. No. 1,128,996; Feb. 16; Gaz. vol. 211; p. 905.
- Vehicles, Combined cushioning and rebound-checking device for. D. F. Oliver. No. 1,152,752; Sept. 7; Gaz. vol. 218; p. 136.
- Vehicles, Combined foot-rest and heater for motor. E. Knauss and F. H. Pettitmaire. No. 1,134,870; Apr. 6; Gaz. vol. 213; p. 282.
- Vehicles, Combined front gear and steering connection for children's. W. J. Siefel. No. 1,156,023; Oct. 5; Gaz. vol. 219; p. 242.
- Vehicles, Combined radiator and headlight for motor. H. L. Bock. No. 1,138,182; May 4; Gaz. vol. 214; p. 162.
- Vehicles, Controlling mechanism for power. C. M. Manly. No. 1,132,665; Mar. 23; Gaz. vol. 212; p. 1114.
- Vehicles, Convertible body for motor. E. L. Thompson. No. 1,131,875; Mar. 16; Gaz. vol. 212; p. 777.
- Vehicles, Device for indicating the movement of. E. F. Marrs. No. 1,134,631; Apr. 6; Gaz. vol. 213; p. 200.
- Vehicles, Differential gear for motor-propelled. R. Odell. No. 1,126,264; Jan. 26; Gaz. vol. 210; p. 1197.
- Vehicles, Differential mechanism for. H. W. Sherman. No. 1,134,235; Apr. 6; Gaz. vol. 213; p. 56.
- Vehicles, Direction-indicator for. T. W. Byrne. No. 1,127,730; Feb. 9; Gaz. vol. 211; p. 413.
- Vehicles, Direction-indicator for motor and other. J. Dunn. No. 1,142,505; June 8; Gaz. vol. 215; p. 537.
- Vehicles driven by mixed power, Apparatus for controlling motor. H. Pieper. No. 1,140,849; May 25; Gaz. vol. 214; p. 1206.
- Vehicles, Driving-gearing for motor. R. H. Rosenberg. No. 1,164,870; Dec. 21; Gaz. vol. 221; p. 832.
- Vehicles, Driving of. J. Rebstein. No. 1,144,246; June 22; Gaz. vol. 215; p. 1207.
- Vehicles, Drying apparatus for railway. C. D. Young. No. 1,132,142; Mar. 16; Gaz. vol. 212; p. 874.
- Vehicles, Electric apparatus for motor. H. W. Leonard. No. 1,157,011; Oct. 19; Gaz. vol. 219; p. 643.
- Vehicles, Engine-canopy for motor. F. W. Preston. No. 1,164,864; Dec. 21; Gaz. vol. 221; p. 830.
- Vehicles, Foldable-hood fittings of. R. Medley. No. 1,154,527; Sept. 21; Gaz. vol. 218; p. 830.
- Vehicles, Folding package-carrier for. S. F. Goss. No. 1,135,517; Apr. 13; Gaz. vol. 213; p. 551.
- Vehicles, Foot-retainer for motor. L. M. Young. No. 1,152,257; Aug. 31; Gaz. vol. 217; p. 1589.
- Vehicles, Friction-drive for motor. C. A. Obermaier. No. 1,128,715; Feb. 16; Gaz. vol. 211; p. 805.
- Vehicles from their axles, Means for supporting bodies of. A. A. Remington. No. 1,147,547; July 20; Gaz. vol. 216; p. 940.
- Vehicles, Fusible-plug mechanism for steam motor. W. C. Blundell. No. 1,123,669; Jan. 5; Gaz. vol. 210; p. 162.
- Vehicles, Gear-controlling mechanism for motor. R. Huff. No. 1,157,693; Oct. 26; Gaz. vol. 219; p. 946.
- Vehicles into tractors, Attachment for converting motor-propelled. W. P. Wynne. No. 1,147,131; July 20; Gaz. vol. 216; p. 794.
- Vehicles, King-bolt connection for. P. Heinz and W. A. Goebel. No. 1,134,267; Apr. 6; Gaz. vol. 213; p. 68.
- Vehicles, Knuckle-joint for motor. C. M. Smith. No. 1,158,323; Oct. 26; Gaz. vol. 219; p. 1166.
- Vehicles, Lifting device for motor. F. P. Cady. No. 1,133,703; Mar. 30; Gaz. vol. 212; p. 1526.
- Vehicles, Lighting system for motor. R. Head. No. 1,157,105; Oct. 19; Gaz. vol. 219; p. 676.
- Vehicles, Lock for the steering-gear of motor. W. G. Walton. No. 1,145,281; July 6; Gaz. vol. 216; p. 106.
- Vehicles, Means for controlling the illumination of. W. S. Menden. No. 1,135,605; Apr. 13; Gaz. vol. 213; p. 582.
- Vehicles, Means for journaling the motor-shaft in self-propelled. E. Bugatti. No. 1,143,887; June 22; Gaz. vol. 215; p. 1079.
- Vehicles, Number-plate holder for motor. A. Willhardt. No. 1,142,002; June 8; Gaz. vol. 215; p. 358.
- Vehicles, particularly motor-cars, Device for lifting. F. Ilseemann. No. 1,150,599; Aug. 17; Gaz. vol. 217; p. 917.
- Vehicles, Pneumatic cushioning device for. E. V. Sanders. No. 1,140,002; May 18; Gaz. vol. 214; p. 877.
- Vehicles, Pneumatic starter for motor. A. L. McMurtry. No. 1,133,488; Mar. 30; Gaz. vol. 212; p. 1445.
- Vehicles, Power-increasing apparatus for motor-driven. W. W. Green. No. 1,146,154; July 13; Gaz. vol. 216; p. 433.

- Vehicles, Pressure-indicating mechanism for pneumatic-tired. W. E. Heberling. No. 1,165,876; Dec. 28; Gaz. vol. 221; p. 1223.
- Vehicles, Radiator-support for motor-. R. Huff. No. 1,153,227; Sept. 14; Gaz. vol. 218; p. 343.
- Vehicles, Rail and bracket construction for. E. L. Ackerman. No. 1,141,915; June 8; Gaz. vol. 215; p. 329.
- Vehicles, Reflecting device for motor-. W. E. Fellowes. No. 1,135,446; Apr. 13; Gaz. vol. 213; p. 527.
- Vehicles, Resilient apparatus for. L. L. Scott. No. 1,159,872; Nov. 9; Gaz. vol. 220; p. 547.
- Vehicles, Safety guard attachment for. W. W. Talbot. No. 1,148,553; Aug. 3; Gaz. vol. 217; p. 24.
- Vehicles, Side mud-splash guard for motor and other. A. C. Adams. No. 1,137,688; Apr. 27; Gaz. vol. 213; p. 1395.
- Vehicles, Speed-limiting apparatus for motor-. G. W. Pierce. No. 1,140,060; May 18; Gaz. vol. 214; p. 897.
- Vehicles, Spring-frame for motor-driven. W. E. Bock. No. 1,138,181; May 4; Gaz. vol. 214; p. 162.
- Vehicles, Spring-supported system for. J. W. Safford. No. 1,123,808; Jan. 5; Gaz. vol. 210; p. 208.
- Vehicles, Spring suspension mechanism of motor-. C. W. Bick. No. 1,149,617; Aug. 10; Gaz. vol. 217; p. 507.
- Vehicles, Springless suspension for. G. Bravi. No. 1,142,395; June 8; Gaz. vol. 215; p. 498.
- Vehicles, Track device for motor-. L. W. Dickinson. No. 1,159,657; Nov. 9; Gaz. vol. 220; p. 468.
- Vehicles, Tractable means for. W. H. Preston. No. 1,151,389; Aug. 24; Gaz. vol. 217; p. 1243.
- Vehicles, Tractor system for motor-. A. H. Hoadley. No. 1,137,620; Apr. 27; Gaz. vol. 213; p. 1373.
- Vehicles, Transmission mechanism for motor-. A. Loomis. No. 1,157,015; Oct. 19; Gaz. vol. 219; p. 645.
- Vehicles with kinematic equilibrium, Wind-dividing apparatus for transport-. E. Bunan-Varilla. No. 1,135,337; Apr. 13; Gaz. vol. 213; p. 488.
- Vehicles, Worm-drive for motor-. W. S. Morton. No. 1,140,390; Dec. 28; Gaz. vol. 221; p. 1421.
- Veil. M. U. Dixey. No. 1,141,531; June 1; Gaz. vol. 215; p. 159.
- Veil. B. Van Raalte. No. 1,163,287; Dec. 7; Gaz. vol. 221; p. 193.
- Veil-fastener. G. Cheyne. No. 1,161,799; Nov. 23; Gaz. vol. 220; p. 1324.
- Veil, Mosquito-. D. C. A. Hulström. No. 1,164,351; Dec. 14; Gaz. vol. 221; p. 611.
- Velocipede. J. C. Smith. No. 1,141,278; June 1; Gaz. vol. 215; p. 67.
- Velocipede, Double-geared. A. M. Allen. No. 1,149,422; Aug. 10; Gaz. vol. 217; p. 437.
- Velocipede-frame. D. H. Rinehart. No. 1,146,280; July 13; Gaz. vol. 216; p. 476.
- Velocipede or the like steering means. W. G. Jahnke. No. 1,162,364; Nov. 30; Gaz. vol. 220; p. 1568.
- Velocipede-propelling means. J. M. Cook. No. 1,160,048; Nov. 9; Gaz. vol. 220; p. 607.
- Velocipede-sled. J. Steen. No. 1,146,210; July 13; Gaz. vol. 216; p. 453.
- Velvet-presser. R. Bass. No. 1,161,283; Nov. 23; Gaz. vol. 220; p. 1146.
- Velvet-pressing apparatus. R. Bass. No. 1,127,580; Feb. 9; Gaz. vol. 211; p. 360.
- Vender, Change-giving. A. E. H. Barili. No. 1,128,281; Feb. 16; Gaz. vol. 211; p. 658.
- Vending apparatus, Automatic. S. Madsen. No. 1,137,648; Apr. 27; Gaz. vol. 213; p. 1383.
- Vending apparatus, Automatic gasoline-. H. Foster, W. C. Turner, C. E. Bennett, and W. B. Linn. No. 1,153,376; Sept. 14; Gaz. vol. 218; p. 396.
- Vending apparatus, Coin-controlled. S. E. Moss and W. H. White. No. 1,165,271; Dec. 21; Gaz. vol. 221; p. 973.
- Vending apparatus, Coin-controlled mechanism for. O. L. Bristol and A. F. Vorce. No. 1,135,934; Apr. 13; Gaz. vol. 213; p. 696.
- Vending-cabinet, Coin-controlled. E. E. Boling. No. 1,134,509; Apr. 6; Gaz. vol. 213; p. 155.
- Vending device. C. E. Bridges. No. 1,152,931; Sept. 7; Gaz. vol. 218; p. 202.
- Vending device. B. M. Hair. No. 1,156,140; Oct. 12; Gaz. vol. 219; p. 310.
- Vending-machine. A. D. Antoine and C. C. Travis. No. 1,145,453; July 6; Gaz. vol. 216; p. 170.
- Vending-machine. C. S. Bachman. No. 1,125,037; Jan. 19; Gaz. vol. 210; p. 724.
- Vending-machine. C. S. Bachman. No. 1,164,911; Dec. 21; Gaz. vol. 221; p. 846.
- Vending-machine. J. A. Birsfield. No. 1,149,618; Aug. 10; Gaz. vol. 217; p. 508.
- Vending-machine. H. Boerner. No. 1,141,170; June 1; Gaz. vol. 215; p. 28.
- Vending-machine. E. A. Bolen. No. 1,144,100; June 22; Gaz. vol. 215; p. 1155.
- Vending-machine. A. H. Bowman. No. 1,138,075; May 4; Gaz. vol. 214; p. 124.
- Vending-machine. J. Cartun. No. 1,141,772; June 1; Gaz. vol. 215; p. 240.
- Vending-machine. C. V. Dearing. No. 1,152,009; Aug. 31; Gaz. vol. 217; p. 1503.
- Vending-machine. C. E. Dueber. No. 1,151,347; Aug. 24; Gaz. vol. 217; p. 1229.
- Vending-machine. M. Elzas. No. 1,127,417; Feb. 9; Gaz. vol. 211; p. 303.
- Vending-machine. C. E. Fanning. No. 1,149,997; Aug. 10; Gaz. vol. 217; p. 645.
- Vending-machine. C. P. Gifford. No. 1,163,080; Dec. 7; Gaz. vol. 221; p. 120.
- Vending-machine. M. O. Griswold. No. 1,131,058; Mar. 9; Gaz. vol. 212; p. 457.
- Vending-machine. S. Guadagnino. No. 1,155,918; Oct. 5; Gaz. vol. 219; p. 207.
- Vending-machine. E. A. and W. L. Hamilton. No. 1,133,640; Mar. 30; Gaz. vol. 212; p. 1502.
- Vending-machine. H. D. Hinckley. No. 1,155,312; Sept. 28; Gaz. vol. 218; p. 1125.
- Vending-machine. J. H. Hogan. No. 1,133,143; Mar. 23; Gaz. vol. 212; p. 1288.
- Vending-machine. O. J. Hotaling. No. 1,135,802; Apr. 13; Gaz. vol. 213; p. 651.
- Vending-machine. R. L. Johnstone. No. 1,128,323; Feb. 16; Gaz. vol. 211; p. 671.
- Vending-machine. J. F. Krema. No. 1,141,557; June 1; Gaz. vol. 215; p. 168.
- Vending-machine. O. L. Lance. No. 1,158,692; Nov. 2; Gaz. vol. 220; p. 99.
- Vending-machine. S. A. Liss. No. 1,145,027; July 6; Gaz. vol. 216; p. 18.
- Vending-machine. A. D. Loveren. No. 1,149,377; Aug. 10; Gaz. vol. 217; p. 421.
- Vending-machine. C. V. Martin. No. 1,152,533; Sept. 7; Gaz. vol. 218; p. 57.
- Vending-machine. F. J. McGettrick and H. J. Kennedy. No. 1,128,164; Feb. 9; Gaz. vol. 211; p. 566.
- Vending-machine. C. A. Melchert. No. 1,152,430; Sept. 7; Gaz. vol. 218; p. 17.
- Vending-machine. C. A. Melchert. No. 1,157,792; Oct. 26; Gaz. vol. 219; p. 979.
- Vending-machine. C. N. Ogden. No. 1,139,711; May 18; Gaz. vol. 214; p. 774.
- Vending-machine. R. H. Pollock. No. 1,161,334; Nov. 23; Gaz. vol. 220; p. 1163.
- Vending-machine. M. C. Quigley and L. Trees. No. 1,131,955; Mar. 16; Gaz. vol. 212; p. 805.
- Vending-machine. F. Q. Rast. No. 1,150,062; Aug. 17; Gaz. vol. 217; p. 727.
- Vending-machine. F. Q. Rast and C. G. Peirce. No. 1,137,715; Apr. 27; Gaz. vol. 213; p. 1404.
- Vending-machine. N. E. Rice. No. 1,123,378; Jan. 5; Gaz. vol. 210; p. 63.
- Vending-machine. E. F. Spaulding. No. 1,148,807; Aug. 3; Gaz. vol. 217; p. 117.
- Vending-machine. H. L. Sultzbaugh. No. 1,131,015; Mar. 9; Gaz. vol. 212; p. 442.
- Vending-machine. H. J. Sweany. No. 1,155,172; Sept. 28; Gaz. vol. 218; p. 1082.
- Vending-machine. J. Troidl. No. 1,138,261; May 4; Gaz. vol. 214; p. 188.
- Vending-machine. C. E. Turnquist and H. E. Rich. No. 1,157,650; Oct. 19; Gaz. vol. 219; p. 865.
- Vending-machine. L. A. Valdettaro. No. 1,159,298; Nov. 2; Gaz. vol. 220; p. 309.
- Vending-machine. L. A. Vandiver. No. 1,145,947; July 13; Gaz. vol. 216; p. 359.
- Vending-machine. S. Wein and J. Huda. No. 1,140,220; May 18; Gaz. vol. 214; p. 952.
- Vending-machine. O. C. Wiesner. No. 1,134,305; Apr. 6; Gaz. vol. 213; p. 81.
- Vending-machine. R. P. Wilton. No. 1,160,557; Nov. 16; Gaz. vol. 220; p. 840.
- Vending-machine. J. Winkelmeyer. No. 1,139,248; May 11; Gaz. vol. 214; p. 574.
- Vending machine, Air-. A. P. Holden and R. J. Copeland. No. 1,156,078; Oct. 12; Gaz. vol. 219; p. 288.
- Vending-machine, Automatic. H. Hartman. No. 1,142,702; June 8; Gaz. vol. 215; p. 602.
- Vending-machine, Automatic. C. J. Rohland. No. 1,128,518; Feb. 16; Gaz. vol. 211; p. 738.
- Vending-machine, Automatic. C. A. Wollner. No. 1,150,319; Aug. 17; Gaz. vol. 217; p. 820.
- Vending machine, Automatic stamp-. R. T. and B. B. Ray. No. 1,128,721; Feb. 16; Gaz. vol. 211; p. 807.
- Vending machine, Clear-. R. O. Hoffman. No. 1,134,742; Apr. 6; Gaz. vol. 213; p. 241.
- Vending-machine, Coin. J. W. Forbes. No. 1,140,451; May 25; Gaz. vol. 214; p. 1068.
- Vending-machine, Coin. G. E. Messinger. No. 1,154,711; Sept. 28; Gaz. vol. 218; p. 923.
- Vending-machine, Coin-controlled. E. A. Bolen. No. 1,140,438; May 25; Gaz. vol. 214; p. 1064.
- Vending-machine, Coin-controlled. C. W. Hitchner. No. 1,159,939; Nov. 9; Gaz. vol. 220; p. 572.
- Vending-machine, Coin-operated. J. W. Patterson. No. 1,153,440; Sept. 14; Gaz. vol. 218; p. 420.
- Vending-machine, Coin-controlled. E. M. Story. No. 1,160,548; Nov. 16; Gaz. vol. 220; p. 837.
- Vending-machine, Coin-operated. J. A. Webster. No. 1,157,069; Oct. 19; Gaz. vol. 219; p. 664.
- Vending-machine, Key-controlled. J. B. Hurd. No. 1,152,638; Sept. 7; Gaz. vol. 218; p. 95.
- Vending-machines, Locking device for coin-actuated. R. T. Hosking. No. 1,163,012; Dec. 7; Gaz. vol. 221; p. 97.
- Vending-machine material-testing device. E. H. Kelley. No. 1,147,407; July 20; Gaz. vol. 216; p. 892.

Alphabetical list of inventions—Continued.

- Vending-machine, Multiple-compartment coin-controlled. H. D. Kippen, A. T. Brown, and J. T. White. No. 1,139,039; May 11; Gaz. vol. 214; p. 503.
- Vending machine, Newspaper-. A. Campbell. No. 1,126,702; Feb. 2; Gaz. vol. 211; p. 12.
- Vending machine, Newspaper-. A. Rossmannith. No. 1,160,449; Nov. 16; Gaz. vol. 220; p. 801.
- Vending machine, Package-. F. L. Rowntree. No. 1,152,051; Aug. 31; Gaz. vol. 217; p. 1519.
- Vending machine, Post-card-. F. J. Pfeeger. No. 1,151,711; Aug. 31; Gaz. vol. 217; p. 1400.
- Vending machine, Raisin-. A. F. Wells and J. Saxton. No. 1,139,828; May 18; Gaz. vol. 214; p. 815.
- Vending machine, Sandwich-. J. I. Gemmill. No. 1,125,904; Jan. 19; Gaz. vol. 210; p. 1033.
- Vending machine, Stamp-. T. Briegel and M. O. Griswold. No. 1,162,128; Nov. 30; Gaz. vol. 220; p. 1487.
- Vending machine, Stamp-. F. P. Dunn. No. 1,158,905; Nov. 2; Gaz. vol. 220; p. 173.
- Vending machine, Stamp-. J. F. Tefft. No. 1,140,210; May 18; Gaz. vol. 214; p. 949.
- Vending machine, Sugar-. H. Rosen. No. 1,127,520; Feb. 9; Gaz. vol. 211; p. 340.
- Vending machine, Toothpick-. W. T. Bradshaw and W. E. Joost. No. 1,132,239; Mar. 16; Gaz. vol. 212; p. 911.
- Vending-machines and the like, Coin-controlled mechanism for. E. V. Boddy. No. 1,139,477; May 18; Gaz. vol. 214; p. 691.
- Vending-machines, Coin-controlled actuating mechanism for. C. W. Hitchner. No. 1,159,940; Nov. 9; Gaz. vol. 220; p. 573.
- Vending-machines, Fraud-preventive for coin-controlled. H. J. Sweany. No. 1,128,385; Feb. 16; Gaz. vol. 211; p. 691.
- Vending or actuating mechanism, Coin-controlled. W. H. Walker. No. 1,139,242; May 11; Gaz. vol. 214; p. 572.
- Vending stamps, tickets, coupons, &c., Machine for. W. G. Templeton. No. 1,157,649; Oct. 19; Gaz. vol. 219; p. 864.
- Veneer and making same, Composite. H. L. Staley and W. B. Simmons. No. 1,154,138; Sept. 21; Gaz. vol. 218; p. 697.
- Veneer box, Collapsible. O. C. Fenlason. No. 1,142,084; June 8; Gaz. vol. 215; p. 388.
- Veneer box, Collapsible. O. C. Fenlason. No. 1,152,084; Aug. 31; Gaz. vol. 217; p. 1531.
- Veneer-clippers, Cutting-gage for. J. E. Elwing. No. 1,127,975; Feb. 9; Gaz. vol. 211; p. 500.
- Veneer jointing and taping machine. H. Runne. No. 1,126,292; Jan. 26; Gaz. vol. 210; p. 1206.
- Veneer-jointing machine. H. Runne. No. 1,154,730; Sept. 28; Gaz. vol. 218; p. 929.
- Veneer or slicing machine. J. Shellenberger. No. 1,143,081; June 15; Gaz. vol. 215; p. 776.
- Veneer pad. L. F. Flipse. No. 1,156,895; Oct. 19; Gaz. vol. 219; p. 602.
- Veneer-press-screw wrench. O. Bergstrom. No. 1,145,856; July 6; Gaz. vol. 216; p. 308.
- Veneer trimmer and gage. L. Waligorski. No. 1,129,531; Feb. 23; Gaz. vol. 211; p. 1128.
- Veneers, Bleaching. B. E. Strong and H. G. Clemenger. No. 1,128,073; Feb. 9; Gaz. vol. 211; p. 535.
- Vent. Air-. A. L. Gadsby. No. 1,135,449; Apr. 13; Gaz. vol. 213; p. 527.
- Vent-pipe. F. J. Moore. No. 1,137,778; May 4; Gaz. vol. 214; p. 20.
- Vent-regulator for pneumatic actions. M. Clark. No. 1,132,650; Mar. 23; Gaz. vol. 212; p. 1108.
- Ventilated compartment. H. C. Ford. No. 1,137,473; Apr. 27; Gaz. vol. 213; p. 1324.
- Ventilating and lighting construction. P. Schwickart. No. 1,146,660; July 13; Gaz. vol. 213; p. 610.
- Ventilating apparatus. T. H. Garland. No. 1,163,138; Dec. 7; Gaz. vol. 221; p. 140.
- Ventilating apparatus. L. S. Hackney. No. 1,138,470; May 4; Gaz. vol. 214; p. 264.
- Ventilating apparatus. C. Limburg and W. D. Segelhorst. No. 1,133,047; Mar. 23; Gaz. vol. 212; p. 1255.
- Ventilating apparatus. J. L. Waterbury. No. 1,146,980; July 20; Gaz. vol. 216; p. 743.
- Ventilating apparatus and method. P. C. Hewitt. No. 1,133,027; Mar. 23; Gaz. vol. 212; p. 1248.
- Ventilating appliance. J. Razatch. No. 1,140,609; May 25; Gaz. vol. 214; p. 1125.
- Ventilating device. G. C. Breidert. No. 1,147,369; July 20; Gaz. vol. 216; p. 877.
- Ventilating device. F. M. Gunn, O. Bark, and W. Scowcroft. No. 1,135,685; Apr. 13; Gaz. vol. 213; p. 611.
- Ventilating device. L. S. Hackney. No. 1,153,067; Sept. 7; Gaz. vol. 218; p. 249.
- Ventilating-screen. A. R. Mollison. No. 1,127,068; Feb. 2; Gaz. vol. 211; p. 142.
- Ventilating-screen. H. S. Wilson. No. 1,141,163; June 1; Gaz. vol. 215; p. 26.
- Ventilation system. A. Knapen. No. 1,151,692; Aug. 31; Gaz. vol. 217; p. 1394.
- Ventilating system. J. B. Strauss. No. 1,160,667; Nov. 16; Gaz. vol. 220; p. 881.
- Ventilator: See—
- Automatic ventilator.
- Berth-ventilator.
- Car-ventilator.
- Hat-ventilator.
- Railway-carriage ventilator.
- Ventilator. A. L. Adams. No. 1,126,333; Jan. 26; Gaz. vol. 210; p. 1222.
- Ventilator. I. Ashorn. No. 1,162,205; Nov. 30; Gaz. vol. 220; p. 1513.
- Ventilator. W. J. Coleman. No. 1,128,414; Feb. 16; Gaz. vol. 211; p. 701.
- Ventilator. J. R. Elliott. No. 1,134,259; Apr. 6; Gaz. vol. 213; p. 65.
- Ventilator. J. Frumveller. No. 1,150,184; Aug. 17; Gaz. vol. 217; p. 773.
- Ventilator. T. H. Garland. No. 1,131,362; Mar. 9; Gaz. vol. 212; p. 561.
- Ventilator. D. P. Gosline. No. 1,139,672; May 18; Gaz. vol. 214; p. 760.
- Ventilator. R. T. Greene. No. 1,129,482; Feb. 23; Gaz. vol. 211; p. 1112.
- Ventilator. H. Maugras. No. 1,133,304; Mar. 30; Gaz. vol. 212; p. 1381.
- Ventilator. C. W. Renner. No. 1,124,805; Jan. 12; Gaz. vol. 210; p. 608.
- Ventilator. C. Saunders. No. 1,126,875; Feb. 2; Gaz. vol. 211; p. 74.
- Ventilator. G. C. Treman. No. 1,146,215; July 13; Gaz. vol. 216; p. 454.
- Ventilator. C. H. Williams. No. 1,128,085; Feb. 9; Gaz. vol. 211; p. 540.
- Ventilator and clean-out tee, Combination. O. H. Rotermundt. No. 1,146,451; July 13; Gaz. vol. 216; p. 539.
- Ventilator-guard. E. E. Kilmer. No. 1,128,329; Feb. 16; Gaz. vol. 211; p. 674.
- Ventilator-hood. A. M. Basman. No. 1,126,348; Jan. 26; Gaz. vol. 210; p. 1227.
- Vermicelli and similar products, Machine for folding. A. S. Amouroux. No. 1,145,874; July 13; Gaz. vol. 216; p. 335.
- Vermicelli-folding machine. B. F. A. Courtine. No. 1,143,509; June 15; Gaz. vol. 215; p. 924.
- Vermis-extermimator for poultry-perches. A. E. Odmark. No. 1,155,088; Sept. 28; Gaz. vol. 218; p. 1053.
- Vessel. C. Gora. No. 1,138,862; May 11; Gaz. vol. 214; p. 440.
- Vessel. A. McDougall. No. 1,157,022; Oct. 19; Gaz. vol. 219; p. 648.
- Vessel, Amphibious. W. T. Taylor. No. 1,161,267; Nov. 23; Gaz. vol. 220; p. 1140.
- Vessel, Cargo. J. J. Bittlestone and H. T. Johnson. No. 1,148,822; Aug. 3; Gaz. vol. 217; p. 121.
- Vessel-closure. J. R. Harbeck. No. 1,152,413; Sept. 7; Gaz. vol. 218; p. 11.
- Vessel closure, Containing-. J. E. Doldt. No. 1,153,897; Sept. 21; Gaz. vol. 218; p. 615.
- Vessel, Enameled metallic. W. A. Dunlap. No. 1,165,952; Dec. 28; Gaz. vol. 221; p. 1248.
- Vessel-guiding mechanism. C. R. Stedman. No. 1,165,032; Dec. 21; Gaz. vol. 221; p. 888.
- Vessel, Jacketed. C. Riddle. No. 1,133,821; Mar. 30; Gaz. vol. 212; p. 1567.
- Vessel-lifter. S. Paja. No. 1,133,742; Mar. 30; Gaz. vol. 212; p. 1538.
- Vessel loading and trimming apparatus. F. W. Lovell. No. 1,124,047; Jan. 5; Gaz. vol. 210; p. 288.
- Vessel-raising apparatus. H. A. Dicks. No. 1,150,255; Aug. 17; Gaz. vol. 217; p. 799.
- Vessel, Self-unloading. K. Barther. No. 1,128,572; Feb. 16; Gaz. vol. 211; p. 757.
- Vessel, Sheet-metal. F. Westerbeck. No. 1,138,268; May 4; Gaz. vol. 214; p. 191.
- Vessel, Submarine. C. Laurenti. No. 1,161,484; Nov. 23; Gaz. vol. 220; p. 1216.
- Vessel, Submarine. N. P. Nelson. No. 1,165,535; Dec. 28; Gaz. vol. 221; p. 1102.
- Vessel, Submarine. J. T. Parker. No. 1,154,126; Sept. 21; Gaz. vol. 218; p. 693.
- Vessel, Submarine. C. G. Ullin. No. 1,125,772; Jan. 19; Gaz. vol. 210; p. 988.
- Vessels, Building longitudinally-framed. J. W. Isherwood. No. 1,147,732; July 27; Gaz. vol. 216; p. 1032.
- Vessels, Construction of. J. Ritter. No. 1,160,763; Nov. 16; Gaz. vol. 220; p. 916.
- Vessels, Device for locating and raising sunken. G. McKenzie. No. 1,124,231; Jan. 5; Gaz. vol. 210; p. 353.
- Vessels, Device for raising sunken. H. Lotz. No. 1,133,160; Mar. 23; Gaz. vol. 212; p. 1295.
- Vessels, Device for raising sunken. S. Parshall. No. 1,136,608; Apr. 20; Gaz. vol. 213; p. 977.
- Vessels, Exhausting. C. J. Thatcher. No. 1,124,555; Jan. 12; Gaz. vol. 210; p. 518.
- Vessels, Flotation-belt for. C. M. Buzuk. No. 1,124,208; Jan. 5; Gaz. vol. 210; p. 345.
- Vessels, Floating device for. A. Miceli. No. 1,154,195; Sept. 21; Gaz. vol. 218; p. 715.
- Vessels, Neck and closure for containing. E. D. Chellis. No. 1,128,948; Feb. 16; Gaz. vol. 211; p. 889.
- Vessels, Safety appliance for submarine. J. S. Fraser. No. 1,139,409; May 11; Gaz. vol. 214; p. 630.
- Revolving ventilator.
- Vehicle body-ventilator.
- Window-ventilator.

Alphabetical list of inventions—Continued.

- Vessels, Safety attachment for. J. S. Neumann. No. 1,129,895; Mar. 2; Gaz. vol. 212; p. 21.
- Vessels with sealed passageways. Providing enameled. W. A. Dunlap. No. 1,165,951; Dec. 28; Gaz. vol. 221; p. 1248.
- Vest, Nursing-. G. B. Smith. No. 1,136,727; Apr. 20; Gaz. vol. 213; p. 1020.
- Vestibule-diaphragm, Accordion-plated. H. H. Schroyer. No. 1,123,397; Jan. 5; Gaz. vol. 210; p. 69.
- Vestibule-diaphragm, Metal. T. H. Russum. No. 1,157,182; Oct. 19; Gaz. vol. 219; p. 704.
- Vestibule face-plates, Upper buffing device for. O. Hochberg and J. J. Cooper. No. 1,164,000; Dec. 14; Gaz. vol. 221; p. 488.
- Vestibule, Folding. F. R. Allen. No. 1,133,693; Mar. 30; Gaz. vol. 212; p. 1523.
- Vestibule-frame, Cast-steel. G. L. Wall. No. 1,138,028; May 4; Gaz. vol. 214; p. 106.
- Veterinarian's obstetrical instrument. D. H. Miller. No. 1,130,098; Mar. 2; Gaz. vol. 212; p. 89.
- Veterinary apparatus. J. J. Biasiolli. No. 1,150,848; Aug. 24; Gaz. vol. 217; p. 1061.
- Veterinary instrument. S. B. Dunn. No. 1,149,562; Aug. 10; Gaz. vol. 217; p. 485.
- Veterinary instrument. C. J. Korinek. No. 1,142,715; June 8; Gaz. vol. 215; p. 606.
- Veterinary instrument. J. S. Vinnedge. No. 1,162,669; Nov. 30; Gaz. vol. 220; p. 1668.
- Veterinary surgical instrument. F. G. Lang. No. 1,151,197; Aug. 24; Gaz. vol. 217; p. 1181.
- Vibrating rectifier. J. T. Dempster. No. 1,159,189; Nov. 2; Gaz. vol. 220; p. 272.
- Vibrating screen. R. P. Akins. No. 1,160,812; Nov. 16; Gaz. vol. 220; p. 932.
- Vibration-absorbing motor-stand. J. G. Rimmer. No. 1,165,288; Dec. 21; Gaz. vol. 221; p. 978.
- Vibration-absorbing support. F. S. Boerries. No. 1,139,158; May 11; Gaz. vol. 214; p. 544.
- Vibration, Device for detecting mechanical. F. Gottschalk. No. 1,137,478; Apr. 27; Gaz. vol. 213; p. 1326.
- Vibration, Prevention of disturbing. A. Aichele. No. 1,161,575; Nov. 23; Gaz. vol. 220; p. 1248.
- Vibrator. H. Behm. No. 1,141,373; June 1; Gaz. vol. 215; p. 102.
- Vibrator. M. Nakata. No. 1,144,308; June 22; Gaz. vol. 215; p. 1228.
- Vibrator. E. J. Rohne. No. 1,124,808; Jan. 12; Gaz. vol. 210; p. 609.
- Vibrator. F. P. Tessmer. No. 1,164,889; Dec. 21; Gaz. vol. 221; p. 839.
- Vibrator, Electrically-operated. G. L. Patterson and I. F. Badeau. No. 1,145,507; July 6; Gaz. vol. 216; p. 186.
- Vibratory apparatus. P. Rice. No. 1,164,018; Dec. 14; Gaz. vol. 221; p. 494.
- View apparatus, Consecutive-. E. Schneider. No. 1,153,578; Sept. 14; Gaz. vol. 218; p. 470.
- View-changing device. C. F. Jenkins. No. 1,153,110; Sept. 7; Gaz. vol. 218; p. 263.
- View-changing device. F. Schwanhauser. No. 1,151,221; Aug. 24; Gaz. vol. 217; p. 1189.
- View-finder. C. F. Speidel. No. 1,144,074; June 22; Gaz. vol. 215; p. 1145.
- View-finder, Automatic. W. W. King. No. 1,137,864; May 4; Gaz. vol. 214; p. 49.
- Views in color, Apparatus for reproducing. J. K. Holbrook. No. 1,151,786; Aug. 31; Gaz. vol. 217; p. 1427.
- Views in color, Projection apparatus for reproducing. J. K. Holbrook. No. 1,151,787; Aug. 31; Gaz. vol. 217; p. 1427.
- Vignetter. C. Vantrees. No. 1,161,170; Nov. 23; Gaz. vol. 220; p. 1104.
- Vignetter, Sectional. D. Cohen. No. 1,149,030; Aug. 3; Gaz. vol. 217; p. 193.
- Vine cutter, Potato-. G. L. McCready. No. 1,134,629; Apr. 6; Gaz. vol. 213; p. 199.
- Vinegar, Manufacture of. H. Boulard. No. 1,164,063; Dec. 14; Gaz. vol. 221; p. 511.
- Violin. J. T. Anderson. No. 1,133,782; Mar. 30; Gaz. vol. 212; p. 1553.
- Violin. F. M. Mecartea. No. 1,140,697; May 25; Gaz. vol. 214; p. 1153.
- Violin, Automatic. H. Hegeler. No. 1,147,504; July 20; Gaz. vol. 216; p. 925.
- Violin-bow. P. O. Anderson. No. 1,151,918; Aug. 31; Gaz. vol. 217; p. 1473.
- Violin-bow. F. J. Steckenreiter. No. 1,151,413; Aug. 24; Gaz. vol. 217; p. 1251.
- Violin-bow, Automatic. G. K. Hennig. No. 1,131,930; Mar. 16; Gaz. vol. 212; p. 797.
- Violin finger-board. F. Consoli. No. 1,126,957; Feb. 2; Gaz. vol. 211; p. 102.
- Violin friction-peg. N. B. Bailey and I. A. Lutz. No. 1,128,835; Feb. 16; Gaz. vol. 211; p. 848.
- Violin-mold. H. G. Leland. No. 1,133,482; Mar. 30; Gaz. vol. 212; p. 1443.
- Violin or other stringed-instrument body. J. H. Ingram. No. 1,149,059; Aug. 3; Gaz. vol. 217; p. 203.
- Violin sound-post. C. Steuer. No. 1,123,946; Jan. 5; Gaz. vol. 210; p. 254.
- Violins and other musical instruments. Shoulder-rest for. B. Poehland. No. 1,156,925; Oct. 19; Gaz. vol. 219; p. 612.
- Violins and other stringed instruments, Mute for. B. A. and M. C. Andraud. No. 1,125,929; Jan. 26; Gaz. vol. 210; p. 1074.
- Violins and similar musical instruments, Thumb-rest for. C. Hamlin. No. 1,144,194; June 22; Gaz. vol. 215; p. 1188.
- Viscose, Production of articles or materials from. B. Borzykowski. No. 1,143,569; June 15; Gaz. vol. 215; p. 945.
- Viscosimeter. G. M. Saybolt. No. 1,132,621; Mar. 23; Gaz. vol. 212; p. 1098.
- Vise. C. S. Evans. No. 1,141,237; June 1; Gaz. vol. 215; p. 52.
- Vise. T. J. Fegley and G. O. Leopold. No. 1,132,320; Mar. 16; Gaz. vol. 212; p. 940.
- Vise. T. J. Fegley and G. O. Leopold. No. 1,144,828; June 29; Gaz. vol. 215; p. 1435.
- Vise. A. C. Harrington. No. 1,124,730; Jan. 12; Gaz. vol. 210; p. 580.
- Vise. J. Kinzey. No. 1,133,156; Mar. 23; Gaz. vol. 212; p. 1294.
- Vise. H. S. Kuhn. No. 1,150,041; Aug. 17; Gaz. vol. 217; p. 721.
- Vise. C. P. Periolat. No. 1,125,911; Jan. 19; Gaz. vol. 210; p. 1036.
- Vise. A. W. Peterson. No. 1,134,347; Apr. 6; Gaz. vol. 213; p. 96.
- Vise. E. A. Schade. No. 1,150,632; Aug. 17; Gaz. vol. 217; p. 929.
- Vise. C. H. Shoemaker. No. 1,150,397; Aug. 17; Gaz. vol. 217; p. 847.
- Vise. C. A. Soderberg. No. 1,154,815; Sept. 28; Gaz. vol. 218; p. 957.
- Vise, Adjustable. W. D. C. Wright. No. 1,155,027; Sept. 28; Gaz. vol. 218; p. 1029.
- Vise and saw-clamp. W. T. King. No. 1,135,815; Apr. 13; Gaz. vol. 213; p. 656.
- Vise attachment. P. Reconi. No. 1,125,395; Jan. 19; Gaz. vol. 210; p. 855.
- Vise-automatic. T. S. Homans. No. 1,139,420; May 11; Gaz. vol. 214; p. 635.
- Vise, Bench-. J. R. Long. No. 1,136,473; Apr. 20; Gaz. vol. 213; p. 930.
- Vise-bench, Pipe-fitter's. F. Ackerman. No. 1,156,965; Oct. 19; Gaz. vol. 219; p. 627.
- Vise, Chain pipe-. G. Amborn. No. 1,158,414; Oct. 26; Gaz. vol. 219; p. 1200.
- Vise, Hand-. R. F. Hersey. No. 1,162,059; Nov. 30; Gaz. vol. 220; p. 1462.
- Vise, Mirror attachment for a. J. W. Ivory. No. 1,134,679; Apr. 6; Gaz. vol. 213; p. 218.
- Vise or draft mechanism. M. B. Lloyd. No. 1,124,761; Jan. 12; Gaz. vol. 210; p. 592.
- Vise, Pipe-. H. H. Bever. No. 1,161,593; Nov. 23; Gaz. vol. 220; p. 1254.
- Vise, Pipe-. H. S. Kuhn. No. 1,150,040; Aug. 17; Gaz. vol. 217; p. 720.
- Vise, Quick-acting. R. E. Jack. No. 1,125,329; Jan. 19; Gaz. vol. 210; p. 829.
- Vise, Rapid-acting. H. H. Abernathy. No. 1,140,646; May 25; Gaz. vol. 214; p. 1137.
- Vise screw and handle. H. S. Kuhn. No. 1,150,042; Aug. 17; Gaz. vol. 217; p. 721.
- Vise-support. V. and E. Terry. No. 1,148,130; July 27; Gaz. vol. 216; p. 1174.
- Vise, Woodworking-. J. Halterbeck. No. 1,130,082; Mar. 2; Gaz. vol. 212; p. 83.
- Vises, Folding supporting-frame for portable hand-. A. A. McKenzie. No. 1,151,959; Aug. 31; Gaz. vol. 217; p. 1486.
- Vises, Work-holder for bench-. S. C. Walters. No. 1,136,853; Apr. 20; Gaz. vol. 213; p. 1064.
- Visiograph. S. Cruset. No. 1,160,096; Nov. 9; Gaz. vol. 220; p. 624.
- Vision-guard. J. D. Morgan. No. 1,151,603; Aug. 31; Gaz. vol. 217; p. 1365.
- Vitamins, Obtaining. C. Funk. No. 1,162,908; Dec. 7; Gaz. vol. 221; p. 60.
- Vitreous ware and metal and making same. R. G. Miller. No. 1,164,840; Dec. 21; Gaz. vol. 221; p. 822.
- Vitrified block. L. E. Armstrong. No. 1,163,880; Dec. 14; Gaz. vol. 221; p. 446.
- Vitrified objects, Making. C. W. Thomas. No. 1,144,395; June 29; Gaz. vol. 215; p. 1287.
- Volatile compounds and producing same. S. Peacock. No. 1,134,411; Apr. 6; Gaz. vol. 213; p. 119.
- Volatile compounds and producing same, Mixed. S. Peacock. No. 1,129,514; Feb. 23; Gaz. vol. 211; p. 1122.
- Volatile liquids, Cleaning device utilizing. F. D. Farnam. No. 1,137,959; May 4; Gaz. vol. 214; p. 83.
- Volatile magnesium compounds and producing same. S. Peacock. No. 1,134,412; Apr. 6; Gaz. vol. 213; p. 119.
- Volt-ampere meter. P. M. Lincoln. No. 1,156,413; Oct. 12; Gaz. vol. 219; p. 404.
- Volt-ampere meter. P. M. Lincoln. No. 1,161,395; Nov. 23; Gaz. vol. 220; p. 1186.
- Voltage protection. High-. W. Petersen. No. 1,153,821; Sept. 14; Gaz. vol. 218; p. 554.
- Voltage-regulator. E. Lehr. No. 1,144,604; June 29; Gaz. vol. 215; p. 1356.
- Voltage-regulator. A. H. Olmsted. No. 1,166,150; Dec. 28; Gaz. vol. 221; p. 1321.

Alphabetical list of inventions—Continued.

- Voltage-regulator. A. Pollak. No. 1,137,019; Apr. 27; Gaz. vol. 213; p. 1160.
- Voltage-regulator. A. A. Tirrill. No. 1,147,659; July 20; Gaz. vol. 216; p. 947.
- Voltage-regulator, Automatic. G. S. Neeley. No. 1,158,001; Oct. 26; Gaz. vol. 219; p. 1053.
- Voltaic body-battery. A. A. Pratt. No. 1,123,370; Jan. 5; Gaz. vol. 210; p. 60.
- Vote machine, Ballot-. W. Haney. No. 1,140,033; May 18; Gaz. vol. 214; p. 888.
- Voting-chart. O. A. Walstad and S. O. Peterson. No. 1,123,439; Jan. 5; Gaz. vol. 210; p. 83.
- Voting, Indicator mechanism for restrictive. J. A. Butler. No. 1,155,041; Sept. 28; Gaz. vol. 218; p. 1033.
- Voting-machine. W. C. Brumder. No. 1,149,113; Aug. 3; Gaz. vol. 217; p. 219.
- Voting-machine. J. A. Butler. No. 1,134,724; Apr. 6; Gaz. vol. 213; p. 234.
- Voting-machine. T. P. Caulkins. No. 1,148,575; Aug. 3; Gaz. vol. 217; p. 33.
- Voting-machine. K. De Vries. No. 1,159,191; Nov. 2; Gaz. vol. 220; p. 272.
- Voting-machine. J. H. Dean. No. 1,158,643; Nov. 2; Gaz. vol. 220; p. 83.
- Voting-machine. J. H. Dean. No. 1,158,644; Nov. 2; Gaz. vol. 220; p. 83.
- Voting-machine. J. H. Dean. No. 1,158,645; Nov. 2; Gaz. vol. 220; p. 83.
- Voting-machine. J. H. Dean. No. 1,158,646; Nov. 2; Gaz. vol. 220; p. 84.
- Voting-machine. J. H. Dean. No. 1,158,647; Nov. 2; Gaz. vol. 220; p. 84.
- Voting-machine. K. Fitzpatrick. No. 1,162,853; Dec. 7; Gaz. vol. 221; p. 42.
- Voting-machine. J. C. Garrett. No. 1,131,363; Mar. 9; Gaz. vol. 212; p. 561.
- Voting-machine. H. O. Rugh. No. 1,141,075; May 25; Gaz. vol. 214; p. 1285.
- Voting-machine. H. O. Rugh. No. 1,142,058; June 8; Gaz. vol. 215; p. 378.
- Voting-machine. F. A. Suck. No. 1,145,817; July 6; Gaz. vol. 216; p. 294.
- Voting-machine control. H. O. Rugh. No. 1,141,074; May 25; Gaz. vol. 214; p. 1284.
- Voting-machine, Multiple. S. Loe. No. 1,158,518; Nov. 2; Gaz. vol. 220; p. 38.
- Voting-machines and similar structures, Interlocking mechanism for. J. H. McElroy. No. 1,141,645; June 1; Gaz. vol. 215; p. 198.
- Voting-machines and the like, Controlling device for. J. A. Butler. No. 1,156,028; Oct. 5; Gaz. vol. 219; p. 244.
- Voting-machines, Interlock for cumulative voting on. W. J. Lausterer. No. 1,137,766; May 4; Gaz. vol. 214; p. 15.
- Voting mechanism, Primary-. C. C. Abbott. No. 1,127,149; Feb. 2; Gaz. vol. 211; p. 171.
- Vulcanized articles, Apparatus for producing. P. I. Murrill. No. 1,161,951; Nov. 30; Gaz. vol. 220; p. 1425.
- Vulcanized articles, Manufacture of. R. B. Price. No. 1,161,966; Nov. 30; Gaz. vol. 220; p. 1430.
- Vulcanized plastic articles, Producing. R. B. Price. No. 1,161,967; Nov. 30; Gaz. vol. 220; p. 1431.
- Vulcanizer. J. E. Bancroft. No. 1,141,519; June 1; Gaz. vol. 215; p. 154.
- Vulcanizer. B. R. Barder. No. 1,144,683; June 29; Gaz. vol. 215; p. 1383.
- Vulcanizer. E. P. Berk. No. 1,123,223; Jan. 5; Gaz. vol. 210; p. 7.
- Vulcanizer. D. P. Einrem. No. 1,159,197; Nov. 2; Gaz. vol. 220; p. 275.
- Vulcanizer. F. L. Gibson. No. 1,155,909; Oct. 5; Gaz. vol. 219; p. 203.
- Vulcanizer. J. M. Ginter. No. 1,153,059; Sept. 7; Gaz. vol. 218; p. 246.
- Vulcanizer. W. P. Graves, M. J. Frambach, and L. A. Graves. No. 1,146,424; July 13; Gaz. vol. 216; p. 527.
- Vulcanizer. A. Magri and A. V. Griffith. No. 1,156,793; Oct. 12; Gaz. vol. 219; p. 535.
- Vulcanizer. H. C. Schnoebelen. No. 1,124,815; Jan. 12; Gaz. vol. 210; p. 611.
- Vulcanizer. D. R. Searles. No. 1,139,234; May 11; Gaz. vol. 214; p. 570.
- Vulcanizer. C. A. Shaler. No. 1,158,315; Oct. 26; Gaz. vol. 219; p. 1164.
- Vulcanizer. C. Taarud. No. 1,157,340; Oct. 19; Gaz. vol. 219; p. 760.
- Vulcanizer. P. D. Thropp. No. 1,152,993; Sept. 7; Gaz. vol. 218; p. 225.
- Vulcanizer, Portable. W. G. Sandford. No. 1,161,414; Nov. 23; Gaz. vol. 220; p. 1193.
- Vulcanizer-press. A. Adamson. No. 1,128,831; Feb. 16; Gaz. vol. 211; p. 847.
- Vulcanizer, Steam-. J. O. Drew. No. 1,125,276; Jan. 19; Gaz. vol. 210; p. 811.
- Vulcanizing apparatus. J. W. Arthur. No. 1,157,751; Oct. 26; Gaz. vol. 219; p. 966.
- Vulcanizing apparatus. J. W. Arthur. No. 1,164,054; Dec. 14; Gaz. vol. 221; p. 508.
- Vulcanizing apparatus. C. M. Reardsley. No. 1,152,267; Aug. 31; Gaz. vol. 217; p. 1593.
- Vulcanizing apparatus. D. S. Hershon. No. 1,162,235; Nov. 30; Gaz. vol. 220; p. 1523.
- Vulcanizing apparatus. C. E. Miller. No. 1,142,526; June 8; Gaz. vol. 215; p. 544.
- Vulcanizing apparatus. T. H. Rieder. No. 1,138,791; May 11; Gaz. vol. 214; p. 414.
- Vulcanizing apparatus. E. W. Rutherford. No. 1,161,892; Nov. 30; Gaz. vol. 220; p. 1403.
- Vulcanizing apparatus. W. F. Stearns. No. 1,154,737; Sept. 28; Gaz. vol. 218; p. 931.
- Vulcanizing device. C. A. Willey. No. 1,162,531; Nov. 30; Gaz. vol. 220; p. 1627.
- Vulcanizing device, Portable. L. C. Lawall. No. 1,140,381; May 25; Gaz. vol. 214; p. 1043.
- Vulcanizing method and apparatus. J. R. Gammeter. No. 1,129,084; Feb. 23; Gaz. vol. 211; p. 971.
- Wafers, Forming filled. E. E. Lawrence. No. 1,166,056; Dec. 28; Gaz. vol. 221; p. 1283.
- Wagon. J. Chein. No. 1,160,574; Nov. 16; Gaz. vol. 220; p. 846.
- Wagon. J. Chein. No. 1,160,575; Nov. 16; Gaz. vol. 220; p. 846.
- Wagon. C. Dietz. No. 1,128,299; Feb. 16; Gaz. vol. 211; p. 664.
- Wagon. C. M. Haynes. No. 1,161,049; Nov. 23; Gaz. vol. 220; p. 1061.
- Wagon. Adjustable side-hill. M. D. Bollinger. No. 1,151,561; Aug. 31; Gaz. vol. 217; p. 1349.
- Wagon and sled, Combined. W. E. Wickline. No. 1,133,207; Mar. 23; Gaz. vol. 212; p. 1311.
- Wagon attachment. L. Hareland. No. 1,124,019; Jan. 5; Gaz. vol. 210; p. 278.
- Wagon attachment, Farm-. J. G. Buescher. No. 1,162,564; Nov. 30; Gaz. vol. 220; p. 1636.
- Wagon, Automatic dumping and readjusting. J. F. Hughes. No. 1,130,735; Mar. 9; Gaz. vol. 212; p. 346.
- Wagon-bed. M. Klopp. No. 1,149,069; Aug. 3; Gaz. vol. 217; p. 206.
- Wagon-body. J. McDermott. No. 1,135,826; Apr. 13; Gaz. vol. 213; p. 661.
- Wagon-body attachment. B. G. Richbourg. No. 1,146,100; July 13; Gaz. vol. 216; p. 414.
- Wagon-body frame. S. R. Sturgis. No. 1,126,912; Feb. 2; Gaz. vol. 211; p. 86.
- Wagon-body, hay and hog rack, and hog-chute, Combination. Z. T. Kirkham. No. 1,136,813; Apr. 20; Gaz. vol. 213; p. 1050.
- Wagon-body, Tilting. J. Ledwinka. No. 1,139,456; May 11; Gaz. vol. 214; p. 648.
- Wagon-bolsters, Hay-rack attachment for. L. E. Stump. No. 1,155,015; Sept. 28; Gaz. vol. 218; p. 1025.
- Wagon-box. A. I. Headley. No. 1,131,695; Mar. 16; Gaz. vol. 212; p. 712.
- Wagon-box lining. H. Skreberg. No. 1,151,972; Aug. 31; Gaz. vol. 217; p. 1492.
- Wagon-box, Rodless. T. W. McBride. No. 1,128,161; Feb. 9; Gaz. vol. 211; p. 566.
- Wagon-brake. L. R. Allen. No. 1,153,745; Sept. 14; Gaz. vol. 218; p. 527.
- Wagon-brake. T. F. Caulk. No. 1,147,677; July 20; Gaz. vol. 216; p. 986.
- Wagon-brake. T. Findley and O. G. Rieske. No. 1,127,982; Feb. 9; Gaz. vol. 211; p. 503.
- Wagon-brake. J. P. Hise. No. 1,151,879; Aug. 31; Gaz. vol. 217; p. 1460.
- Wagon-brake. A. Johnson. No. 1,124,744; Jan. 12; Gaz. vol. 210; p. 585.
- Wagon-brake. C. A. Kirby. No. 1,163,546; Dec. 7; Gaz. vol. 221; p. 283.
- Wagon-brake. R. C. Overton. No. 1,165,623; Dec. 28; Gaz. vol. 221; p. 1134.
- Wagon-brake. C. B. Stevens. No. 1,165,295; Dec. 21; Gaz. vol. 221; p. 981.
- Wagon-brake. W. A. Underhill. No. 1,136,851; Apr. 20; Gaz. vol. 213; p. 1063.
- Wagon-brake. F. Watson. No. 1,155,453; Oct. 5; Gaz. vol. 219; p. 45.
- Wagon-brake. R. V. Williams. No. 1,124,371; Jan. 12; Gaz. vol. 210; p. 451.
- Wagon-brake and horse-hitching apparatus, Combined. C. M. Singleton. No. 1,140,195; May 18; Gaz. vol. 214; p. 945.
- Wagon-brake, Automatic. T. M. Smith. No. 1,153,967; Sept. 21; Gaz. vol. 218; p. 639.
- Wagon-brake, Automatic. J. O. Summerville. No. 1,164,678; Dec. 21; Gaz. vol. 221; p. 766.
- Wagon-brake rack. J. P. Hise. No. 1,149,051; Aug. 3; Gaz. vol. 217; p. 200.
- Wagon, Child's and toy. C. A. Longman and J. C. Minshall. No. 1,131,254; Mar. 9; Gaz. vol. 212; p. 524.
- Wagon, Coaster-. H. L. Austin. No. 1,165,832; Dec. 28; Gaz. vol. 221; p. 1206.
- Wagon; Combination van-. M. V. Reger. No. 1,156,693; Oct. 12; Gaz. vol. 219; p. 502.
- Wagon-covering-fastening means. J. Jackson. No. 1,145,684; July 6; Gaz. vol. 216; p. 248.
- Wagon, Delivery-. J. S. Dunham. No. 1,131,045; Mar. 9; Gaz. vol. 212; p. 452.
- Wagon, Dirt-. H. C. Copenhagen. No. 1,153,179; Sept. 7; Gaz. vol. 218; p. 286.

Alphabetical list of inventions—Continued.

- Wagon, Display-. C. H. Northrup. No. 1,139,215; May 11; Gaz. vol. 214; p. 563.
- Wagon, Dump-. T. Davidson. No. 1,152,303; Aug. 31; Gaz. vol. 217; p. 1605.
- Wagon, Dump-. F. E. Ertzman. No. 1,149,815; Aug. 10; Gaz. vol. 217; p. 579.
- Wagon, Dump-. J. W. Haywood. No. 1,164,281; Dec. 14; Gaz. vol. 221; p. 585.
- Wagon, Dump-. C. C. King. No. 1,143,405; June 15; Gaz. vol. 215; p. 891.
- Wagon, Dump-. S. Miller. No. 1,127,063; Feb. 2; Gaz. vol. 211; p. 141.
- Wagon, Dump-. G. W. Otterson. No. 1,163,949; Dec. 14; Gaz. vol. 221; p. 470.
- Wagon, Dump-. F. Weber. No. 1,159,140; Nov. 2; Gaz. vol. 220; p. 252.
- Wagon, Dump-. T. Wright. No. 1,157,486; Oct. 19; Gaz. vol. 219; p. 812.
- Wagon, Dumping-. A. Benson. No. 1,159,640; Nov. 9; Gaz. vol. 220; p. 463.
- Wagon, Dumping-. J. Heberling. No. 1,142,325; June 8; Gaz. vol. 215; p. 471.
- Wagon, Dumping-. I. Hilb. No. 1,136,800; Apr. 20; Gaz. vol. 213; p. 1045.
- Wagon, Dumping-. W. H. Hunt. No. 1,152,510; Sept. 7; Gaz. vol. 218; p. 46.
- Wagon, Dumping-. F. J. Kunkel. No. 1,155,739; Oct. 5; Gaz. vol. 219; p. 144.
- Wagon, Dumping-. H. Luedinghaus, Jr. No. 1,158,138; Oct. 26; Gaz. vol. 219; p. 1102.
- Wagon, Dumping-. H. S. Marshall. No. 1,127,059; Feb. 2; Gaz. vol. 211; p. 139.
- Wagon, Dumping-. J. J. McGuire. No. 1,133,301; Mar. 30; Gaz. vol. 212; p. 1380.
- Wagon, Dumping-. J. F. O'Connor. No. 1,143,308; June 15; Gaz. vol. 215; p. 856.
- Wagon, Dumping-. G. W. Shartle. No. 1,158,571; Nov. 2; Gaz. vol. 220; p. 57.
- Wagon, Dumping-. J. Thompson. No. 1,140,213; May 18; Gaz. vol. 214; p. 950.
- Wagon, Dumping-. T. Wright. No. 1,139,945; May 18; Gaz. vol. 214; p. 856.
- Wagon end door, Delivery-. J. Ledwinka. No. 1,139,458; May 11; Gaz. vol. 214; p. 648.
- Wagon foot-rest. J. A. McAllister. No. 1,143,770; June 22; Gaz. vol. 215; p. 1039.
- Wagon for coal. J. Whartnaby and R. Clarke. No. 1,124,825; Jan. 12; Gaz. vol. 210; p. 615.
- Wagon, Garbage-. L. F. Martin. No. 1,135,602; Apr. 13; Gaz. vol. 213; p. 581.
- Wagon-gear. W. P. Gentle. No. 1,154,505; Sept. 21; Gaz. vol. 218; p. 823.
- Wagon-gear. M. Klopp. No. 1,123,894; Jan. 5; Gaz. vol. 210; p. 237.
- Wagon-gear, Combination stiff and drop tongue. C. F. Milburn. No. 1,165,987; Dec. 28; Gaz. vol. 221; p. 1261.
- Wagon-hoist. G. R. Rikert. No. 1,128,626; Feb. 16; Gaz. vol. 211; p. 775.
- Wagon-jack support. J. E. Camp. No. 1,146,131; July 13; Gaz. vol. 216; p. 424.
- Wagon-loading apparatus. G. Haiss. No. 1,132,338; Mar. 16; Gaz. vol. 212; p. 946.
- Wagon-locking mechanism, Dump-. H. D. Johnson, Jr. No. 1,127,444; Feb. 9; Gaz. vol. 211; p. 314.
- Wagon-pole attachment. R. G. Harrier. No. 1,145,309; July 6; Gaz. vol. 216; p. 116.
- Wagon-reach, Metal. R. C. Sharp. No. 1,132,398; Mar. 16; Gaz. vol. 212; p. 967.
- Wagon running-gear. D. F. Aleshire. No. 1,158,155; Oct. 26; Gaz. vol. 219; p. 1108.
- Wagon running-gear. J. A. Bourbonnais. No. 1,163,806; Dec. 14; Gaz. vol. 221; p. 421.
- Wagon running-gear. F. K. Ricks. No. 1,165,287; Dec. 21; Gaz. vol. 221; p. 978.
- Wagon screening attachment, Coal-. J. R. Lawrence. No. 1,129,994; Mar. 2; Gaz. vol. 212; p. 55.
- Wagon-seat. C. F. Blakeslee. No. 1,150,739; Aug. 17; Gaz. vol. 217; p. 965.
- Wagon-seat. J. K. Downie. No. 1,147,711; July 27; Gaz. vol. 216; p. 1024.
- Wagon-seat. T. H. Farrington. No. 1,134,444; Apr. 6; Gaz. vol. 213; p. 132.
- Wagon-seat. E. E. Lloyd. No. 1,132,948; Mar. 23; Gaz. vol. 212; p. 1219.
- Wagon-seat, Adjustable. O. E. Andersen. No. 1,158,953; Nov. 2; Gaz. vol. 220; p. 190.
- Wagon seat, Grain-. J. J. Lee. No. 1,136,685; Apr. 20; Gaz. vol. 213; p. 1004.
- Wagon-seat lock. R. J. Smith. No. 1,124,542; Jan. 12; Gaz. vol. 210; p. 513.
- Wagon-seat support. C. R. Sachs. No. 1,140,769; May 25; Gaz. vol. 214; p. 1177.
- Wagon-standard. R. R. Costello. No. 1,123,249; Jan. 5; Gaz. vol. 210; p. 16.
- Wagon-step. A. C. Smith. No. 1,141,017; May 25; Gaz. vol. 214; p. 1266.
- Wagon-tongue draft-rigging. R. R. Savoy. No. 1,124,961; Jan. 12; Gaz. vol. 210; p. 662.
- Wagon-top, Sanitary. J. J. King. No. 1,127,019; Feb. 2; Gaz. vol. 211; p. 126.
- Wagon-wheel. W. F. Jarrett. No. 1,155,154; Sept. 28; Gaz. vol. 218; p. 1075.
- Wagons, Bottom door for dump-. C. G. Streich. No. 1,144,389; June 29; Gaz. vol. 215; p. 1285.
- Wagons, Combined scoop and dump-gate for. D. W. Zeh-rung. No. 1,149,014; Aug. 3; Gaz. vol. 217; p. 188.
- Wagons, Road-grader attachment for. A. Amundson. No. 1,138,172; May 4; Gaz. vol. 214; p. 159.
- Waist-closure. E. T. Baskin. No. 1,156,518; Oct. 12; Gaz. vol. 219; p. 441.
- Waist-closure. J. Sklar. No. 1,162,260; Nov. 30; Gaz. vol. 220; p. 1533.
- Waist-line supporting and adjusting means for garments. Combined. G. J. Miller. No. 1,154,584; Sept. 21; Gaz. vol. 218; p. 851.
- Waistband. M. H. Loeffler. No. 1,159,512; Nov. 9; Gaz. vol. 220; p. 417.
- Waistband adjustment. H. Klein. No. 1,149,587; Aug. 10; Gaz. vol. 217; p. 494.
- Waistband construction for garments. S. Baruch. No. 1,151,333; Aug. 24; Gaz. vol. 217; p. 1225.
- Waistband for trousers, Elastic. A. Lazarus. No. 1,149,271; Aug. 10; Gaz. vol. 217; p. 382.
- Walking-stick transformable into a seat. C. Vernet. No. 1,157,604; Oct. 19; Gaz. vol. 219; p. 849.
- Walks, roads, and the like, Border-strip for. C. E. Haas. No. 1,139,515; May 18; Gaz. vol. 214; p. 704.
- Wall and column structure, Molded. P. J. A. Stockmann. No. 1,131,437; Mar. 9; Gaz. vol. 212; p. 587.
- Wall and tile construction, Imitation. A. Bruckner. No. 1,147,704; July 27; Gaz. vol. 216; p. 1022.
- Wall-board. P. J. Carey. No. 1,156,753; Oct. 12; Gaz. vol. 219; p. 522.
- Wall, Collapsible sheet-metal. S. Brown. No. 1,156,053; Oct. 12; Gaz. vol. 219; p. 279.
- Wall construction. J. L. Jensen and N. A. Olson. No. 1,151,952; Aug. 31; Gaz. vol. 217; p. 1483.
- Wall construction. G. A. Leonard. No. 1,150,044; Aug. 17; Gaz. vol. 217; p. 722.
- Wall-construction apparatus. W. C. Edwards, Jr. No. 1,153,205; Sept. 14; Gaz. vol. 218; p. 334.
- Wall construction, Composite. R. H. Robinson. No. 1,150,967; Aug. 24; Gaz. vol. 217; p. 1101.
- Wall-coverings, Manufacture of. O. Wiedemann. No. 1,129,933; Mar. 2; Gaz. vol. 212; p. 35.
- Wall-fastening. W. Rubly. No. 1,159,420; Nov. 9; Gaz. vol. 220; p. 384.
- Wall for buildings and the like. S. J. Anderson. No. 1,132,995; Mar. 23; Gaz. vol. 212; p. 1236.
- Wall, Hollow-tile. P. H. Bevier. No. 1,153,362; Oct. 26; Gaz. vol. 219; p. 1180.
- Wall-molding apparatus. G. W. Hadden. No. 1,162,913; Dec. 7; Gaz. vol. 221; p. 62.
- Wall-molding device. J. S. Ambrose. No. 1,160,033; Nov. 9; Gaz. vol. 220; p. 603.
- Wall-molding structure. G. Cousins. No. 1,149,032; Aug. 3; Gaz. vol. 217; p. 193.
- Wall or partition. W. M. Goldsmith. No. 1,136,792; Apr. 20; Gaz. vol. 213; p. 1042.
- Wall-seat. A. M. Freise. No. 1,132,004; Mar. 16; Gaz. vol. 212; p. 824.
- Wall, Sheet-metal. E. G. Caghey. No. 1,153,601; Sept. 14; Gaz. vol. 218; p. 478.
- Wall structure, Insulated. V. E. Lane. No. 1,140,687; May 25; Gaz. vol. 214; p. 1150.
- Wall-surfaces, Finishing. C. M. Gaulocher and J. N. Stacy. No. 1,160,708; Nov. 16; Gaz. vol. 220; p. 897.
- Wall-surfaces, Plastering. C. Weber. No. 1,139,901; May 11; Gaz. vol. 214; p. 520.
- Wall-socket and bolt. W. C. Fawkes. No. 1,154,580; Sept. 21; Gaz. vol. 218; p. 849.
- Wall-switch. D. D. Gordon. No. 1,149,362; Aug. 10; Gaz. vol. 217; p. 415.
- Walls and means for adjusting the apparatus, Apparatus for building circular. A. Q. Nash. No. 1,127,369; Feb. 2; Gaz. vol. 211; p. 244.
- Walls and other surfaces, Covering for. M. B. Church. No. 1,166,325; Dec. 28; Gaz. vol. 221; p. 1384.
- Walls, Chips for the corners of partition-. M. H. Jester. No. 1,165,413; Dec. 28; Gaz. vol. 221; p. 1061.
- Walls, Constructing plastic. W. C. Swift. No. 1,159,615; Nov. 9; Gaz. vol. 220; p. 454.
- Walls, Corner-strip for. W. R. Hunter. No. 1,138,955; May 11; Gaz. vol. 214; p. 471.
- Walls, Device for pointing brick. R. H. Chappell. No. 1,142,022; June 8; Gaz. vol. 215; p. 386.
- Walls, Flashing for parapet-. F. D. Renaud. No. 1,154,435; Sept. 21; Gaz. vol. 218; p. 800.
- Walls, Ground for cement-coated. E. D. Coddington. No. 1,164,334; Dec. 14; Gaz. vol. 221; p. 605.
- Walls, Perforating separated obstructions in hollow. A. R. Locke. No. 1,154,035; Sept. 21; Gaz. vol. 218; p. 662.
- Wallet or purse. H. Borg. No. 1,165,746; Dec. 28; Gaz. vol. 221; p. 1178.
- War-ship, Semisubmersible. S. D. Simmons and H. Am-ling. No. 1,164,415; Dec. 14; Gaz. vol. 221; p. 633.
- War-ships, Powder or explosive magazine for. J. E. Starr and C. C. Palmer. No. 1,161,992; Nov. 30; Gaz. vol. 220; p. 1438.
- Wardrobe. C. J. Coleman. No. 1,149,343; Aug. 10; Gaz. vol. 217; p. 409.

Alphabetical list of inventions—Continued.

- Wardrobe. H. A. Roat, Jr. No. 1,137,534; Apr. 27; Gaz. vol. 213; p. 1345.
- Wardrobe. C. A. Schlachter. No. 1,154,659; Sept. 28; Gaz. vol. 218; p. 906.
- Wardrobe, Collapsible folding. T. Doucet. No. 1,154,693; Sept. 28; Gaz. vol. 218; p. 917.
- Wardrobe, Foldable. F. Macdaniel. No. 1,151,491; Aug. 24; Gaz. vol. 217; p. 1278.
- Wardrobe, Portable. A. S. Lawton. No. 1,141,468; June 1; Gaz. vol. 215; p. 137.
- Wardrobe, Portable. F. A. Pflug. No. 1,145,264; July 6; Gaz. vol. 216; p. 101.
- Wardrobe-rack, Portable. W. Volkhardt. No. 1,159,813; Nov. 9; Gaz. vol. 220; p. 526.
- Wardrobe, Sanitary. R. H. Vance. No. 1,157,346; Oct. 19; Gaz. vol. 219; p. 762.
- Wardrobes, Extensible supporting-rack for. M. Kurtzon. No. 1,127,782; Feb. 9; Gaz. vol. 211; p. 432.
- Ware-manufacturing. C. E. Quimby. No. 1,152,969; Sept. 7; Gaz. vol. 218; p. 217.
- Warning-signal. A. N. Pierman. No. 1,135,048; Apr. 13; Gaz. vol. 213; p. 390.
- Warp-drawing-in machine. C. E. Blair. No. 1,153,855; Sept. 14; Gaz. vol. 218; p. 567.
- Warp-drawing-in machine. C. E. Blair. No. 1,153,856; Sept. 14; Gaz. vol. 218; p. 567.
- Warp-frame. F. E. Wirth. No. 1,133,520; Mar. 30; Gaz. vol. 212; p. 1458.
- Warp-leasing machine. C. D. Lanning. No. 1,145,322; July 6; Gaz. vol. 216; p. 120.
- Warp separator, Leased-. C. Lea. No. 1,147,413; July 20; Gaz. vol. 216; p. 894.
- Warp stop mechanism. T. J. O'Connell. No. 1,139,994; May 18; Gaz. vol. 214; p. 873.
- Warp stop-motion. E. H. Ryon. No. 1,128,367; Feb. 16; Gaz. vol. 211; p. 686.
- Warp-tensioning device. E. Ebell. No. 1,124,878; Jan. 12; Gaz. vol. 210; p. 634.
- Warp-thread-separating mechanism. E. F. Hathaway. No. 1,147,395; July 20; Gaz. vol. 216; p. 888.
- Warp-threads, Machine for operating upon. C. D. Lanning and E. F. Hathaway. No. 1,147,412; July 20; Gaz. vol. 216; p. 894.
- Warp-threads, Machine for piecing together. M. Wenzel. No. 1,133,830; Mar. 30; Gaz. vol. 212; p. 1570.
- Warp-threads or the like, Mechanism for selecting. E. F. Hathaway and C. Lea. No. 1,147,394; July 20; Gaz. vol. 216; p. 888.
- Warp-threads, Treating. H. D. Colman. No. 1,129,849; Mar. 2; Gaz. vol. 212; p. 6.
- Warping and beaming machines, Beaming attachment for. H. Watson and C. M. Whritenour. No. 1,153,528; Sept. 14; Gaz. vol. 218; p. 452.
- Warping-frames, Bobbin or cop supporting means for. L. Fessmann and G. Hämmerle. No. 1,125,679; Jan. 19; Gaz. vol. 210; p. 954.
- Warping-machine. E. Bloom. No. 1,138,620; May 11; Gaz. vol. 214; p. 352.
- Warping-machine. E. P. Searing. No. 1,133,749; Mar. 30; Gaz. vol. 212; p. 1541.
- Warping-machine. W. R. Widdup. No. 1,160,349; Nov. 16; Gaz. vol. 220; p. 767.
- Warping-machines, Bobbin frame or creel for. L. Fessmann and G. Hämmerle. No. 1,153,862; Sept. 14; Gaz. vol. 218; p. 569.
- Washbasins, Adjustable support for. G. H. King. No. 1,130,907; Mar. 9; Gaz. vol. 212; p. 406.
- Washbench, Folding. H. W. Power. No. 1,153,836; Sept. 14; Gaz. vol. 218; p. 381.
- Washbench, Rotatable. E. D. Dumond. No. 1,163,327; Dec. 7; Gaz. vol. 221; p. 207.
- Washboard. J. Cipolloni. No. 1,155,888; Oct. 5; Gaz. vol. 219; p. 196.
- Washboard. E. W. Clinchard. No. 1,139,847; May 18; Gaz. vol. 214; p. 821.
- Washboard. H. T. Dahly. No. 1,134,517; Apr. 6; Gaz. vol. 213; p. 158.
- Washboard. M. S. Kjellstrom. No. 1,135,816; Apr. 13; Gaz. vol. 213; p. 656.
- Washboard. B. M. Moore. No. 1,160,746; Nov. 16; Gaz. vol. 220; p. 910.
- Washboard. J. T. Sargent. No. 1,152,766; Sept. 7; Gaz. vol. 218; p. 141.
- Washboard. E. M. Whitney. No. 1,124,985; Jan. 12; Gaz. vol. 210; p. 671.
- Washboard attachment. S. Hook. No. 1,153,081; Sept. 7; Gaz. vol. 218; p. 254.
- Washboard-clamp. W. Lawless. No. 1,132,362; Mar. 16; Gaz. vol. 212; p. 955.
- Washboard-retainer. P. A. Paul. No. 1,148,615; Aug. 3; Gaz. vol. 217; p. 48.
- Washboard, Self-soaping. W. J. Kennedy. No. 1,135,904; Apr. 13; Gaz. vol. 213; p. 687.
- Washboard with rubbing attachment. B. Rudloff. No. 1,158,859; Nov. 2; Gaz. vol. 220; p. 159.
- Washboiler. H. E. Brown. No. 1,132,431; Mar. 16; Gaz. vol. 212; p. 979.
- Washboiler. M. J. Cheeseman. No. 1,133,097; Mar. 23; Gaz. vol. 212; p. 1272.
- Washboiler. C. E. Ewings. No. 1,149,566; Aug. 10; Gaz. vol. 217; p. 486.
- Washboiler. A. A. Potterf. No. 1,130,430; Mar. 2; Gaz. vol. 212; p. 205.
- Washboiler attachment. J. C. Martin. No. 1,132,955; Mar. 23; Gaz. vol. 212; p. 1221.
- Washboiler clothes-drainer. M. A. Long. No. 1,139,782; May 18; Gaz. vol. 214; p. 798.
- Washer: See—
- | | |
|---------------------|---------------------|
| Automobile-washer. | Hand-washer. |
| Bottle-washer. | Hose-washer. |
| Clothes-washer. | Lock-washer. |
| Coal-washer. | Nut-locking washer. |
| Coupling-washer. | Ore-washer. |
| Dish-washer. | Spool-washer. |
| Film-washer. | Tumbler-washer. |
| Filter-mass washer. | Vegetable-washer. |
| Fruit-washer. | Window-washer. |
| Glass-washer. | |
- Washer. G. T. Beckett. No. 1,146,917; July 20; Gaz. vol. 216; p. 719.
- Washer. A. J. Green. No. 1,124,890; Jan. 12; Gaz. vol. 210; p. 638.
- Washer. W. J. Kirk. No. 1,153,232; Sept. 14; Gaz. vol. 218; p. 344.
- Washer. L. O. Miller. No. 1,130,531; Mar. 2; Gaz. vol. 212; p. 243.
- Washer. E. B. Stimpson. No. 1,143,091; June 15; Gaz. vol. 215; p. 779.
- Washer-holder rivet-set. N. Raptias. No. 1,156,434; Oct. 12; Gaz. vol. 219; p. 411.
- Washing and bleaching compound. J. Barrington. No. 1,160,563; Nov. 16; Gaz. vol. 220; p. 843.
- Washing and drying clothes or other textile materials. W. A. E. Henrich. No. 1,160,109; Nov. 9; Gaz. vol. 220; p. 630.
- Washing and wringing machine, Combined power. T. G. Brady. (Reissue.) No. 13,923; June 8; Gaz. vol. 215; p. 634.
- Washing and wringing machine, Combined vacuum. S. B. Miller. No. 1,155,946; Oct. 5; Gaz. vol. 219; p. 215.
- Washing apparatus. A. L. Cox. No. 1,132,449; Mar. 16; Gaz. vol. 212; p. 986.
- Washing apparatus. W. S. Pierce. No. 1,153,823; Sept. 14; Gaz. vol. 218; p. 555.
- Washing apparatus, Vehicle. F. Klingensmith. No. 1,148,690; Aug. 3; Gaz. vol. 217; p. 75.
- Washing appliance, Pneumatic. M. L. Smith. No. 1,138,806; May 11; Gaz. vol. 214; p. 420.
- Washing compound. J. T. Freestone. No. 1,144,186; June 22; Gaz. vol. 215; p. 1186.
- Washing device. J. M. Hattersley. No. 1,163,533; Dec. 7; Gaz. vol. 221; p. 279.
- Washing device. L. W. Serrell. No. 1,151,832; Aug. 31; Gaz. vol. 217; p. 1444.
- Washing-machine. I. H. Arnold. No. 1,154,832; Sept. 28; Gaz. vol. 218; p. 964.
- Washing-machine. E. F. Beebe. No. 1,135,565; Apr. 13; Gaz. vol. 213; p. 569.
- Washing-machine. T. W. Craven. No. 1,161,621; Nov. 23; Gaz. vol. 220; p. 1263.
- Washing-machine. G. J. De Hay. No. 1,141,235; June 1; Gaz. vol. 215; p. 51.
- Washing-machine. O. Deakins. No. 1,151,444; Aug. 24; Gaz. vol. 217; p. 1261.
- Washing-machine. S. J. Goff. No. 1,154,242; Sept. 21; Gaz. vol. 218; p. 733.
- Washing-machine. W. S. Ginter. No. 1,127,884; Feb. 9; Gaz. vol. 211; p. 469.
- Washing-machine. G. Hallidin. No. 1,133,638; Mar. 30; Gaz. vol. 212; p. 1501.
- Washing-machine. L. Hamilton. No. 1,141,628; June 1; Gaz. vol. 215; p. 192.
- Washing-machine. A. H. Hornsby. No. 1,134,613; Apr. 6; Gaz. vol. 213; p. 193.
- Washing-machine. F. G. Hotzel and J. B. Allen. No. 1,136,231; Apr. 20; Gaz. vol. 213; p. 842.
- Washing-machine. J. Huebner. No. 1,135,584; Apr. 13; Gaz. vol. 213; p. 575.
- Washing-machine. A. R. Huson. No. 1,150,598; Aug. 17; Gaz. vol. 217; p. 917.
- Washing-machine. J. Lustenberger. No. 1,134,471; Apr. 6; Gaz. vol. 213; p. 142.
- Washing-machine. W. D. MacQuesten. No. 1,127,473; Feb. 9; Gaz. vol. 211; p. 325.
- Washing-machine. S. M. Marshall. No. 1,129,219; Feb. 23; Gaz. vol. 211; p. 1018.
- Washing-machine. T. J. Nash. No. 1,123,785; Jan. 5; Gaz. vol. 210; p. 201.
- Washing-machine. C. W. Ney. No. 1,132,484; Mar. 16; Gaz. vol. 212; p. 999.
- Washing-machine. J. Nickelsen and M. Thompson. No. 1,147,260; July 20; Gaz. vol. 216; p. 839.
- Washing-machine. N. N. Nunn. No. 1,164,851; Dec. 21; Gaz. vol. 221; p. 827.
- Washing-machine. W. Pavlik. No. 1,134,409; Apr. 6; Gaz. vol. 213; p. 119.
- Washing-machine. J. W. Pecinovsky and E. N. Brown. No. 1,163,686; Dec. 14; Gaz. vol. 221; p. 377.
- Washing-machine. J. C. Petit. No. 1,157,178; Oct. 19; Gaz. vol. 219; p. 702.
- Washing-machine. D. A. Prows. No. 1,149,947; Aug. 10; Gaz. vol. 217; p. 626.

- Washing-machine. M. L. Ramey. No. 1,139,907; May 18; Gaz. vol. 214; p. 843.
- Washing-machine. W. Randall. No. 1,145,795; July 6; Gaz. vol. 216; p. 287.
- Washing-machine. E. Renisch. No. 1,128,722; Feb. 16; Gaz. vol. 211; p. 808.
- Washing-machine. E. E. Riggs. No. 1,156,177; Oct. 12; Gaz. vol. 219; p. 322.
- Washing-machine. W. Ripley. No. 1,136,835; Apr. 20; Gaz. vol. 213; p. 1058.
- Washing-machine. P. Schrock. No. 1,161,416; Nov. 23; Gaz. vol. 220; p. 1193.
- Washing-machine. J. K. Shelton. No. 1,159,281; Nov. 2; Gaz. vol. 220; p. 302.
- Washing-machine. C. Shorman. No. 1,165,136; Dec. 21; Gaz. vol. 221; p. 927.
- Washing-machine. H. C. Stamm. No. 1,133,890; Mar. 30; Gaz. vol. 212; p. 1591.
- Washing-machine. G. A. Starkweather and D. D. Hutson. No. 1,127,305; Feb. 2; Gaz. vol. 211; p. 224.
- Washing-machine. C. E. Taylor. No. 1,129,248; Feb. 23; Gaz. vol. 211; p. 1029.
- Washing-machine. R. L. Wearne. No. 1,147,285; July 20; Gaz. vol. 216; p. 847.
- Washing-machine. J. D. Willome. No. 1,124,089; Jan. 5; Gaz. vol. 210; p. 303.
- Washing-machine-actuating mechanism. C. M. Dumond. No. 1,139,404; May 11; Gaz. vol. 214; p. 628.
- Washing-machine agitator. J. M. Hoffman. No. 1,157,222; Oct. 19; Gaz. vol. 219; p. 718.
- Washing-machine agitator. H. L. Staley. No. 1,155,107; Sept. 28; Gaz. vol. 218; p. 1059.
- Washing-machine agitator. F. J. Tallant. No. 1,138,157; May 4; Gaz. vol. 214; p. 153.
- Washing-machine bench. O. H. Watkins. No. 1,126,597; Jan. 26; Gaz. vol. 210; p. 1319.
- Washing machine, Clothes-. F. H. McCune. No. 1,133,732; Mar. 30; Gaz. vol. 212; p. 1535.
- Washing-machine, Cylinder. W. Bartholomew. No. 1,151,993; Aug. 31; Gaz. vol. 217; p. 1499.
- Washing-machine, Cylinder. W. Bartholomew. No. 1,151,994; Aug. 31; Gaz. vol. 217; p. 1499.
- Washing-machine cylinder. O. K. Oppen. No. 1,157,121; Oct. 19; Gaz. vol. 219; p. 682.
- Washing-machine dolly-support. S. T. White. No. 1,160,555; Nov. 16; Gaz. vol. 220; p. 840.
- Washing-machine driving-head. W. Erni and A. H. Ward. No. 1,150,855; Aug. 24; Gaz. vol. 217; p. 1064.
- Washing-machine-driving mechanism. H. S. Judd and H. Pietsch. No. 1,147,406; July 20; Gaz. vol. 216; p. 892.
- Washing-machine gearing. L. P. Keyser. No. 1,161,480; Nov. 23; Gaz. vol. 220; p. 1215.
- Washing-machine gearing. W. H. Voss. No. 1,156,116; Oct. 12; Gaz. vol. 219; p. 301.
- Washing-machine gearing. O. H. Watkins. No. 1,157,474; Oct. 19; Gaz. vol. 219; p. 808.
- Washing-machine gearing. W. M. Wobbe and J. E. Yost. No. 1,161,178; Nov. 23; Gaz. vol. 220; p. 1107.
- Washing-machine gearing, Alternating rotary. O. G. Pfeiffer. No. 1,149,283; Aug. 10; Gaz. vol. 217; p. 386.
- Washing machine, Laundry-. J. W. Bercau. (Reissue.) No. 13,922; June 8; Gaz. vol. 215; p. 634.
- Washing-machine-operating gearing. G. More. No. 1,139,893; May 18; Gaz. vol. 214; p. 837.
- Washing-machine-operating means. T. E. Unks. No. 1,142,543; June 8; Gaz. vol. 215; p. 549.
- Washing-machine-operating mechanism. T. H. Alfreds. No. 1,165,377; Dec. 28; Gaz. vol. 221; p. 1047.
- Washing-machine-operating mechanism. W. H. George. No. 1,154,005; Sept. 21; Gaz. vol. 218; p. 652.
- Washing-machine-operating mechanism. W. H. George. No. 1,154,007; Sept. 21; Gaz. vol. 218; p. 652.
- Washing-machine-operating mechanism. W. H. George. No. 1,154,008; Sept. 21; Gaz. vol. 218; p. 653.
- Washing-machine-operating mechanism. J. E. Kelly. No. 1,138,487; May 4; Gaz. vol. 214; p. 269.
- Washing machine, Package-. G. and R. C. Schock. No. 1,139,377; May 11; Gaz. vol. 214; p. 619.
- Washing-machine, Pounder. N. Fulcher and J. H. Pickett. No. 1,139,511; May 18; Gaz. vol. 214; p. 703.
- Washing-machine, Steam. J. W. Jackson. No. 1,136,808; Apr. 20; Gaz. vol. 213; p. 1048.
- Washing-machine wringer attachment. G. Wenzelmann. No. 1,123,447; Jan. 5; Gaz. vol. 210; p. 86.
- Washing-machines and the like, Gearing for. C. A. Shive. No. 1,143,326; June 15; Gaz. vol. 215; p. 863.
- Washing-machines, Dolly-post for. E. L. Watrous. No. 1,134,302; Apr. 6; Gaz. vol. 213; p. 80.
- Washing-machines, Mechanical movement for. C. C. Lamb. No. 1,124,464; Jan. 12; Gaz. vol. 210; p. 485.
- Washing-machines, Mechanical movement for. S. T. White. No. 1,126,166; Jan. 26; Gaz. vol. 210; p. 1162.
- Washing-machines, Plunger-operating means for. J. W. Jackson. No. 1,151,362; Aug. 24; Gaz. vol. 217; p. 1234.
- Washing-machines, Power mechanism for. C. E. Roberts. No. 1,123,050; Feb. 9; Gaz. vol. 211; p. 527.
- Washing-machines, Reversing mechanism for cylinder. F. Balzer. No. 1,151,990; Aug. 31; Gaz. vol. 217; p. 1497.
- Washing-machines, Reversing mechanism for electrically-driven. F. Balzer. No. 1,151,991; Aug. 31; Gaz. vol. 217; p. 1498.
- Washing or rinsing machine for textile material. I. E. Palmer. No. 1,165,896; Dec. 28; Gaz. vol. 221; p. 1229.
- Washing-pounder. C. Fry. No. 1,150,817; Aug. 17; Gaz. vol. 217; p. 992.
- Washing waste and other material, Centrifugal machine for. E. W. Phillips. No. 1,146,445; July 13; Gaz. vol. 216; p. 536.
- Washmitt. L. M. Hicks. No. 1,132,475; Mar. 16; Gaz. vol. 212; p. 995.
- Washmitt. L. M. Hicks. (Reissue.) No. 13,977; Sept. 14; Gaz. vol. 218; p. 575.
- Washstand, Adjustable. M. Hastreiter. No. 1,135,181; Apr. 13; Gaz. vol. 213; p. 435.
- Washstand, Benzin-. R. Bosch. No. 1,143,354; June 15; Gaz. vol. 215; p. 872.
- Washtray-cover holder and fastener, Adjustable. J. Malaspina. No. 1,124,048; Jan. 5; Gaz. vol. 210; p. 289.
- Washtray, sink, and drain-board, Combination. P. A. Marcy. No. 1,164,540; Dec. 14; Gaz. vol. 221; p. 677.
- Washtub. W. E. Gray. No. 1,144,191; June 22; Gaz. vol. 215; p. 1187.
- Washtub-cover. H. Greason. No. 1,131,367; Mar. 9; Gaz. vol. 212; p. 563.
- Washub-leg, Adjustable. F. Pfeffer. No. 1,147,886; July 27; Gaz. vol. 216; p. 1085.
- Waste and revent fitting. J. Grigg. No. 1,145,679; July 6; Gaz. vol. 216; p. 245.
- Waste-outlet and stopper therefor. A. C. Badger. No. 1,163,582; Dec. 7; Gaz. vol. 221; p. 296.
- Waste-outlet, Non-freezing. J. M. Coleman. No. 1,164,473; Dec. 14; Gaz. vol. 221; p. 654.
- Waste-preventing apparatus. W. Albrecht. No. 1,124,246; Jan. 12; Gaz. vol. 210; p. 405.
- Waste-soaking tank. L. L. Johnson and A. D. Wyckoff. No. 1,153,690; Sept. 14; Gaz. vol. 218; p. 507.
- Watch. C. L. Depollier. No. 1,139,111; May 11; Gaz. vol. 214; p. 528.
- Watch. H. Melocco. No. 1,153,559; Sept. 14; Gaz. vol. 218; p. 463.
- Watch-adjusting means. J. A. Meroz. No. 1,159,242; Nov. 2; Gaz. vol. 220; p. 290.
- Watch and clock holding case. J. Counter. No. 1,154,382; Sept. 21; Gaz. vol. 218; p. 783.
- Watch and umbrella-handle, Combined. S. Schlesinger. No. 1,146,351; July 13; Gaz. vol. 216; p. 500.
- Watch attachment. Wrist-. T. F. Hathaway. No. 1,153,075; Sept. 7; Gaz. vol. 218; p. 251.
- Watch attachment. Wrist-. T. F. Hathaway. No. 1,162,480; Nov. 30; Gaz. vol. 220; p. 1607.
- Watch-bezel with unbreakable concavo-convex tensional crystal. B. C. Ames. No. 1,133,780; Mar. 30; Gaz. vol. 212; p. 1552.
- Watch, Bracelet-. I. Ditesheim. No. 1,142,554; June 8; Gaz. vol. 215; p. 553.
- Watch-carrying device. B. R. Jolly. No. 1,165,262; Dec. 21; Gaz. vol. 221; p. 970.
- Watch case and movement protector. E. A. Roney. No. 1,139,374; May 11; Gaz. vol. 214; p. 618.
- Watch-casing. H. Honegger. No. 1,128,873; Feb. 16; Gaz. vol. 211; p. 860.
- Watch-charm. T. Rosten and N. Trydal. No. 1,137,088; Apr. 27; Gaz. vol. 213; p. 1185.
- Watch-guard. W. H. Harmon. No. 1,159,494; Nov. 9; Gaz. vol. 220; p. 411.
- Watch-holder. C. H. Allen. No. 1,164,621; Dec. 21; Gaz. vol. 221; p. 745.
- Watch holder, Wrist-. A. J. Johnson and R. L. Skinner. No. 1,153,111; Sept. 7; Gaz. vol. 218; p. 264.
- Watch-holding device. C. G. Schmidt. No. 1,130,438; Mar. 2; Gaz. vol. 212; p. 208.
- Watch-mainspring-winding device. A. F. Robbins. No. 1,161,887; Nov. 30; Gaz. vol. 220; p. 1401.
- Watch movement and case. J. W. Rushton. No. 1,128,526; Feb. 16; Gaz. vol. 211; p. 741.
- Watch-pocket, Safety. R. E. Jones. No. 1,134,458; Apr. 6; Gaz. vol. 213; p. 137.
- Watch-protector. L. Cohn. No. 1,150,930; Aug. 24; Gaz. vol. 217; p. 1089.
- Watch-protector. M. Fleischer and A. C. O. Bock. No. 1,144,830; June 29; Gaz. vol. 215; p. 1435.
- Watch-protector. G. Kaak. No. 1,139,187; May 11; Gaz. vol. 214; p. 555.
- Watch staff-bearings and regulating-fingers, Combined resilient support for. T. Sokolowski. No. 1,128,068; Feb. 9; Gaz. vol. 211; p. 533.
- Watch-stand. E. L. White. No. 1,143,340; June 15; Gaz. vol. 215; p. 867.
- Watch, Stop-. F. A. De Lay. No. 1,156,893; Oct. 19; Gaz. vol. 219; p. 601.
- Watch winding-clutch. G. F. Eberhard. No. 1,144,827; June 29; Gaz. vol. 215; p. 1435.
- Watch-wristlet, bracelet, glove and sleeve holder, and the like. B. R. Simmons. No. 1,135,409; Apr. 13; Gaz. vol. 213; p. 513.
- Watches, Adjustable holder for wrist-. C. W. and H. R. Morris. No. 1,143,548; June 15; Gaz. vol. 215; p. 938.
- Watches, Balance-staff for. J. Freistader. No. 1,136,595; Apr. 20; Gaz. vol. 213; p. 973.
- Watches, Cigar-cutter crown for. E. E. Stockton. No. 1,138,256; May 4; Gaz. vol. 214; p. 186.
- Watches, clocks, and the like, Banking-pin for. W. T. Maloney. No. 1,144,857; June 29; Gaz. vol. 215; p. 1446.

Alphabetical list of inventions—Continued.

- Watches, Control for the setting and winding stem of. O. Ohlson. No. 1,145,699; July 6; Gaz. vol. 216; p. 253.
- Watches, Hair-spring collet for. J. Freistadter. No. 1,136,950; Apr. 27; Gaz. vol. 213; p. 1135.
- Watchcase. C. L. Depollier. No. 1,131,827; Mar. 16; Gaz. vol. 212; p. 761.
- Watchcase, &c. C. L. Depollier. No. 1,139,107; May 11; Gaz. vol. 214; p. 527.
- Watchcase, &c. C. L. Depollier. No. 1,139,108; May 11; Gaz. vol. 214; p. 527.
- Watchcase, &c. C. L. Depollier. No. 1,139,109; May 11; Gaz. vol. 214; p. 527.
- Watchcase, &c. C. L. Depollier. No. 1,139,110; May 11; Gaz. vol. 214; p. 528.
- Watchcase. J. W. Forsman. No. 1,135,573; Apr. 13; Gaz. vol. 213; p. 571.
- Watchcase construction. J. Murset. No. 1,152,537; Sept. 7; Gaz. vol. 218; p. 59.
- Watchcase, Convertible. T. F. Hathaway. No. 1,139,415; May 11; Gaz. vol. 214; p. 633.
- Watchcase, Convertible. T. F. Hathaway. No. 1,139,416; May 11; Gaz. vol. 214; p. 633.
- Watchcase-crown. L. F. Verberckmoes. No. 1,152,673; Sept. 7; Gaz. vol. 218; p. 109.
- Watchmaker's lathe. M. Witart. No. 1,160,353; Nov. 16; Gaz. vol. 220; p. 768.
- Watchmaker's tool for adjusting balance-wheels. L. Kohn. No. 1,153,695; Sept. 14; Gaz. vol. 218; p. 509.
- Water and air heater, Combined. J. S. Nichols. No. 1,135,911; Apr. 13; Gaz. vol. 213; p. 689.
- Water and material lifting elevator, Rotatable inclined. A. W. Hille. No. 1,132,775; Mar. 23; Gaz. vol. 212; p. 1154.
- Water and other liquids by ultra-violet rays, Apparatus for the treatment of. V. Henri, A. Heilbronner, and M. von Recklinghausen. No. 1,132,266; Mar. 16; Gaz. vol. 212; p. 920.
- Water and other liquids by ultra-violet rays, Apparatus for the treatment of. V. Henri, A. Heilbronner, and M. von Recklinghausen. No. 1,140,819; May 25; Gaz. vol. 214; p. 1195.
- Water and other liquids by ultra-violet rays, Treatment of. V. Henri, A. Heilbronner, and M. von Recklinghausen. No. 1,150,117; Aug. 17; Gaz. vol. 217; p. 747.
- Water, Antisepticizing. G. Ornstein. No. 1,142,361; June 8; Gaz. vol. 215; p. 485.
- Water-bag. F. R. Adams. No. 1,127,384; Feb. 9; Gaz. vol. 211; p. 291.
- Water-bag. R. B. Whitmarsh. No. 1,126,601; Jan. 26; Gaz. vol. 210; p. 1320.
- Water-bag. R. B. Whitmarsh. (Reissue.) No. 1,402,4; Nov. 30; Gaz. vol. 220; p. 1696.
- Water bag, Drinking. C. A. Swanson. No. 1,123,951; Jan. 5; Gaz. vol. 210; p. 256.
- Water bag or bottle. I. F. Kepler. No. 1,145,687; July 6; Gaz. vol. 216; p. 248.
- Water bags or bottles, Manufacturing. I. F. Kepler. No. 1,164,196; Dec. 14; Gaz. vol. 221; p. 556.
- Water-brake, Reversible. R. N. Ehrhart. No. 1,161,117; Nov. 23; Gaz. vol. 220; p. 1084.
- Water by means of ozonized air, Apparatus for purifying. G. E. Erlwein and C. Knips. No. 1,138,202; May 4; Gaz. vol. 214; p. 168.
- Water-calming device. J. F. White. No. 1,139,246; May 11; Gaz. vol. 214; p. 573.
- Water-casing-off mechanism. W. Y. Fuqua and C. J. Johnson. No. 1,124,602; Jan. 12; Gaz. vol. 210; p. 534.
- Water-circulating system, Hot. W. D. Knight. No. 1,153,233; Sept. 14; Gaz. vol. 218; p. 344.
- Water-circulator. J. H. Taylor. No. 1,163,704; Dec. 14; Gaz. vol. 221; p. 384.
- Water-closet. K. S. Blanchard. No. 1,165,836; Dec. 28; Gaz. vol. 221; p. 1208.
- Water-closet. G. P. Bowdren. No. 1,141,375; June 1; Gaz. vol. 215; p. 103.
- Water-closet. I. P. Clark. No. 1,140,252; May 18; Gaz. vol. 214; p. 963.
- Water-closet. J. F. Kelly. No. 1,155,661; Oct. 5; Gaz. vol. 219; p. 117.
- Water-closet. J. H. Leonard. No. 1,157,989; Oct. 26; Gaz. vol. 219; p. 1049.
- Water-closet. W. H. Lloyd. No. 1,155,498; Oct. 5; Gaz. vol. 219; p. 62.
- Water-closet. I. A. Mann. No. 1,128,799; Feb. 16; Gaz. vol. 211; p. 834.
- Water-closet. C. H. Muckenhirn. No. 1,152,962; Sept. 7; Gaz. vol. 218; p. 214.
- Water-closet. F. Schuh. No. 1,134,914; Apr. 6; Gaz. vol. 213; p. 296.
- Water-closet. E. G. Watrous. No. 1,130,046; Mar. 2; Gaz. vol. 212; p. 71.
- Water-closet apparatus, Valve-operating mechanism for. W. U. Griffiths. No. 1,165,591; Dec. 28; Gaz. vol. 221; p. 1122.
- Water-closet, Aseptic. W. C. Rees. No. 1,156,175; Oct. 12; Gaz. vol. 219; p. 321.
- Water-closet bend. O. W. Rice. No. 1,152,974; Sept. 7; Gaz. vol. 218; p. 219.
- Water-closet bowl. B. Catchings. No. 1,155,885; Oct. 5; Gaz. vol. 219; p. 195.
- Water-closet bowl. C. H. Muckenhirn. No. 1,132,109; Mar. 16; Gaz. vol. 212; p. 861.
- Water-closet bowl. E. G. Watrous. No. 1,159,445; Nov. 9; Gaz. vol. 220; p. 493.
- Water-closet connection. J. J. Cosgrove. No. 1,151,087; Aug. 24; Gaz. vol. 217; p. 1142.
- Water-closet connection. O. W. Rice. No. 1,152,973; Sept. 7; Gaz. vol. 218; p. 218.
- Water-closet-controlling device. M. J. Kelly. No. 1,123,550; Jan. 5; Gaz. vol. 210; p. 121.
- Water-closet disinfectant-holder. D. A. Brown. No. 1,129,066; Feb. 23; Gaz. vol. 211; p. 965.
- Water-closet disinfector, Automatic. J. E. Cooney. No. 1,161,027; Nov. 23; Gaz. vol. 220; p. 1053.
- Water-closet flush-valve. A. C. Jackson. No. 1,147,024; July 20; Gaz. vol. 216; p. 758.
- Water-closet for yachts and other small boats. P. E. Monroe. No. 1,139,700; May 18; Gaz. vol. 214; p. 770.
- Water-closet gage. G. Middleton. No. 1,157,567; Oct. 19; Gaz. vol. 219; p. 838.
- Water-closet of the squat or non-contact type. J. H. Moore. No. 1,132,374; Mar. 16; Gaz. vol. 212; p. 959.
- Water-closet, Sanitary. J. L. Gish. No. 1,128,243; Feb. 9; Gaz. vol. 211; p. 593.
- Water-closet, Sanitary. F. J. Graves. No. 1,140,814; May 25; Gaz. vol. 214; p. 1194.
- Water-closet seat. L. A. Jaubard. No. 1,132,939; Mar. 23; Gaz. vol. 212; p. 1214.
- Water-closet seat. W. C. Rees. No. 1,165,123; Dec. 21; Gaz. vol. 221; p. 922.
- Water-closet seat and connection therefor. E. I. Seavey. No. 1,163,111; Dec. 7; Gaz. vol. 221; p. 131.
- Water-closet seats, Buffer for. C. Pfau. No. 1,129,010; Feb. 16; Gaz. vol. 211; p. 911.
- Water-closet seats, Sanitary guard for. H. Müller. No. 1,158,142; Oct. 26; Gaz. vol. 219; p. 1103.
- Water-closet soil-pipe connection. H. G. Wheeler. No. 1,164,771; Dec. 21; Gaz. vol. 221; p. 797.
- Water-closet tank. I. Fenton. No. 1,146,558; July 13; Gaz. vol. 216; p. 576.
- Water-closet tank. A. C. Recker. No. 1,134,556; Apr. 6; Gaz. vol. 213; p. 173.
- Water-closet valve. P. Haas. No. 1,142,092; June 8; Gaz. vol. 215; p. 391.
- Water-closet valve, Self-closing. W. U. Griffiths. No. 1,148,836; Aug. 3; Gaz. vol. 217; p. 126.
- Water-closet-ventilating device. G. C. Richard. No. 1,147,120; July 20; Gaz. vol. 216; p. 790.
- Water-closets, Discharging-nozzle for. W. U. Griffiths. No. 1,142,249; June 8; Gaz. vol. 215; p. 445.
- Water-closets, Soil-receptacle for. S. Peter. No. 1,141,976; June 8; Gaz. vol. 215; p. 348.
- Water-closets, Valve for seat-action. W. G. Newton. No. 1,138,241; May 4; Gaz. vol. 214; p. 181.
- Water-conductors, Device for detachably supporting. G. G. Overn and J. C. Thoreson. No. 1,126,845; Feb. 2; Gaz. vol. 211; p. 65.
- Water-conveying apparatus. J. D. Bell. No. 1,124,197; Jan. 5; Gaz. vol. 210; p. 341.
- Water-cooler. W. L. Davis. No. 1,157,927; Oct. 26; Gaz. vol. 219; p. 1027.
- Water-cooler. T. F. Lamb and W. L. Dickinson. No. 1,144,940; June 29; Gaz. vol. 215; p. 1472.
- Water-craft. J. C. Caldwell. No. 1,137,695; Apr. 27; Gaz. vol. 213; p. 1397.
- Water, Device for supplying cooling. H. H. Southworth. No. 1,139,461; May 11; Gaz. vol. 214; p. 650.
- Water-distributor. J. R. Patton. No. 1,129,898; Mar. 2; Gaz. vol. 212; p. 22.
- Water-distributor. G. M. Pinckney. No. 1,127,508; Feb. 9; Gaz. vol. 211; p. 337.
- Water-distributing mechanism. W. Coburn and C. W. Davis. No. 1,139,848; May 18; Gaz. vol. 214; p. 822.
- Water-elevating device. J. N. Grimes. No. 1,142,089; June 8; Gaz. vol. 215; p. 390.
- Water-elevating device. B. F. Wilson. No. 1,150,408; Aug. 17; Gaz. vol. 217; p. 851.
- Water-escape for buildings. S. S. Covert. No. 1,143,946; June 22; Gaz. vol. 215; p. 1099.
- Water-expressing machine. E. J. Noble. No. 1,146,810; July 20; Gaz. vol. 216; p. 682.
- Water-feed control, Float. O. E. Olson. No. 1,161,958; Nov. 30; Gaz. vol. 220; p. 1428.
- Water-fountain. B. Kaminsky. No. 1,128,001; Feb. 9; Gaz. vol. 211; p. 509.
- Water-fountain, Electric. O. F. Battaglia. No. 1,136,995; Apr. 27; Gaz. vol. 213; p. 1151.
- Water-fountain, Sanitary. J. J. Piper. No. 1,149,856; Aug. 10; Gaz. vol. 217; p. 593.
- Water from draining sludge, Manufacturing substance for purifying waste. F. Richter. No. 1,133,446; Mar. 30; Gaz. vol. 212; p. 1431.
- Water-gage. J. E. Cunliff. No. 1,141,381; June 1; Gaz. vol. 215; p. 106.
- Water-gage. W. F. Green. No. 1,138,285; May 4; Gaz. vol. 214; p. 197.
- Water-gage. L. Kassander. No. 1,126,226; Jan. 26; Gaz. vol. 210; p. 1184.
- Water-gage. W. Riley. No. 1,128,516; Feb. 16; Gaz. vol. 211; p. 737.
- Water-gage, Automatic. J. A. Janes. No. 1,142,328; June 8; Gaz. vol. 215; p. 472.

- Water-gages, Safety-cage for. E. Schulz. No. 1,126,301; Jan. 26; Gaz. vol. 210; p. 1210.
- Water-gate. W. H. Smith and G. Kaericher. No. 1,134,923; Apr. 6; Gaz. vol. 213; p. 299.
- Water-glass guard. R. S. Mears. No. 1,132,372; Mar. 16; Gaz. vol. 212; p. 958.
- Water-glasses, Guard for. G. W. Ames. No. 1,144,805; June 29; Gaz. vol. 215; p. 1428.
- Water-heater. J. H. Ashton. No. 1,132,757; Mar. 23; Gaz. vol. 212; p. 1148.
- Water-heater. R. P. Barnstead. No. 1,132,548; Mar. 23; Gaz. vol. 212; p. 1069.
- Water-heater. J. C. Beckfield. No. 1,164,061; Dec. 14; Gaz. vol. 221; p. 510.
- Water-heater. R. E. Clisdell. No. 1,142,495; June 8; Gaz. vol. 215; p. 533.
- Water-heater. J. W. Davis. No. 1,133,271; Mar. 30; Gaz. vol. 212; p. 1369.
- Water-heater. A. Forsyth. No. 1,140,896; May 25; Gaz. vol. 214; p. 1225.
- Water-heater. A. L. Gassett. No. 1,149,576; Aug. 10; Gaz. vol. 217; p. 490.
- Water-heater. C. A. Gilkey. No. 1,161,855; Nov. 30; Gaz. vol. 220; p. 1390.
- Water-heater. D. Hamilton. No. 1,153,781; Sept. 14; Gaz. vol. 218; p. 539.
- Water-heater. A. Herzinger. No. 1,159,221; Nov. 2; Gaz. vol. 220; p. 283.
- Water-heater. J. J. Hiebert. No. 1,158,806; Nov. 2; Gaz. vol. 220; p. 140.
- Water-heater. C. L. Holden. No. 1,146,566; July 13; Gaz. vol. 216; p. 579.
- Water-heater. H. S. Humphrey. No. 1,129,293; Feb. 23; Gaz. vol. 211; p. 1045.
- Water-heater. H. S. Humphrey. No. 1,142,433; June 8; Gaz. vol. 215; p. 512.
- Water-heater. S. E. Jackson and A. P. Barnes. No. 1,150,522; Aug. 17; Gaz. vol. 217; p. 890.
- Water-heater. H. Jarvis. No. 1,129,870; Mar. 2; Gaz. vol. 212; p. 13.
- Water-heater. T. B. Jarvies. No. 1,161,216; Nov. 23; Gaz. vol. 220; p. 1121.
- Water-heater. F. E. Keyes. No. 1,123,755; Jan. 5; Gaz. vol. 210; p. 191.
- Water-heater. M. C. Kruse. No. 1,126,230; Jan. 26; Gaz. vol. 210; p. 1186.
- Water-heater. J. J. Lawler. No. 1,123,765; Jan. 5; Gaz. vol. 210; p. 194.
- Water-heater. L. D. Lovekin. No. 1,143,291; June 15; Gaz. vol. 215; p. 850.
- Water-heater. V. Mauck and K. Howie. No. 1,126,248; Jan. 26; Gaz. vol. 210; p. 1192.
- Water-heater. R. F. Metcalfe. No. 1,140,910; May 25; Gaz. vol. 214; p. 1229.
- Water-heater. J. T. Migchelbrink. No. 1,159,784; Nov. 9; Gaz. vol. 220; p. 516.
- Water-heater. E. A. Mills and R. H. Richards. No. 1,144,227; June 22; Gaz. vol. 215; p. 1200.
- Water-heater. J. B. Moran. No. 1,165,696; Dec. 28; Gaz. vol. 221; p. 1160.
- Water-heater. D. H. Mosteller. No. 1,138,593; May 4; Gaz. vol. 214; p. 303.
- Water-heater. F. A. Nieberding. No. 1,127,078; Feb. 2; Gaz. vol. 211; p. 145.
- Water-heater. C. E. Reed. No. 1,156,814; Oct. 12; Gaz. vol. 219; p. 542.
- Water-heater. C. A. Robbins and W. F. Roth. No. 1,141,830; June 1; Gaz. vol. 215; p. 259.
- Water-heater. W. M. Shaw. No. 1,148,546; Aug. 3; Gaz. vol. 217; p. 22.
- Water-heater. G. A. Sims. No. 1,148,866; Aug. 3; Gaz. vol. 217; p. 136.
- Water-heater. J. Sklar. No. 1,127,532; Feb. 9; Gaz. vol. 211; p. 344.
- Water-heater. W. Spencer. No. 1,149,301; Aug. 10; Gaz. vol. 217; p. 393.
- Water-heater. E. S. Stack. No. 1,125,758; Jan. 19; Gaz. vol. 210; p. 983.
- Water-heater. J. Stott. No. 1,135,860; Apr. 13; Gaz. vol. 213; p. 672.
- Water-heater. S. C. Wells. No. 1,159,304; Nov. 2; Gaz. vol. 220; p. 311.
- Water-heater, Automatic. C. L. Hudler. No. 1,141,247; June 1; Gaz. vol. 215; p. 55.
- Water-heater, Automatic. J. E. Osmer. No. 1,134,406; Apr. 6; Gaz. vol. 213; p. 117.
- Water-heater, casing, Instantaneous. H. S. Humphrey. No. 1,135,805; Apr. 13; Gaz. vol. 213; p. 652.
- Water-heater construction. F. L. O. Wadsworth. No. 1,131,020; Mar. 9; Gaz. vol. 212; p. 444.
- Water-heater construction. F. L. O. Wadsworth. No. 1,131,021; Mar. 9; Gaz. vol. 212; p. 445.
- Water-heater construction. F. L. O. Wadsworth. No. 1,146,826; July 20; Gaz. vol. 216; p. 687.
- Water-heater construction. F. L. O. Wadsworth. No. 1,156,949; Oct. 19; Gaz. vol. 219; p. 620.
- Water-heater, Electric. R. P. Barnstead. No. 1,143,568; June 15; Gaz. vol. 215; p. 945.
- Water-heater, Electric. L. C. Henriksen. No. 1,163,536; Dec. 7; Gaz. vol. 221; p. 280.
- Water-heater, Electric. C. H. Quinlan. No. 1,136,365; Apr. 20; Gaz. vol. 213; p. 891.
- Water-heater, Electric. R. C. Sage. No. 1,150,390; Aug. 17; Gaz. vol. 217; p. 844.
- Water-heater, Electrical. S. L. Varvel. No. 1,139,001; May 11; Gaz. vol. 214; p. 488.
- Water-heater for automobile-radiators, Electrically-operated. E. M. Rosenbluth. No. 1,155,098; Sept. 28; Gaz. vol. 218; p. 1056.
- Water-heater for ranges. E. W. Vest. No. 1,131,634; Mar. 9; Gaz. vol. 212; p. 657.
- Water-heater furnace. C. J. Reilly. No. 1,159,090; Nov. 2; Gaz. vol. 220; p. 235.
- Water-heater, Gas. A. J. Rasanen. No. 1,148,799; Aug. 3; Gaz. vol. 217; p. 114.
- Water-heater, Instantaneous. R. C. Frampton. No. 1,133,016; Mar. 23; Gaz. vol. 212; p. 1243.
- Water-jacket. E. Medina. No. 1,143,642; June 22; Gaz. vol. 215; p. 996.
- Water-heater, Portable. C. Schütz. No. 1,128,534; Feb. 16; Gaz. vol. 211; p. 744.
- Water-heater, Portable. O. W. Tucker and J. R. Shirley. No. 1,124,362; Jan. 12; Gaz. vol. 210; p. 448.
- Water-heating system for dwellings, hotels, and the like. S. Smith. No. 1,135,410; Apr. 13; Gaz. vol. 213; p. 513.
- Water-hoisting system. J. P. Muller. No. 1,127,490; Feb. 9; Gaz. vol. 211; p. 331.
- Water-jacketing. J. B. Meriam. No. 1,135,037; Apr. 13; Gaz. vol. 213; p. 386.
- Water-level indicator. J. J. Oglvie and F. F. Dier. No. 1,127,084; Feb. 2; Gaz. vol. 211; p. 148.
- Water-level indicator. F. E. Stanley. No. 1,123,611; Jan. 5; Gaz. vol. 210; p. 141.
- Water-level indicator, Electric. W. E. Moorefield and A. J. Brady. No. 1,124,055; Jan. 5; Gaz. vol. 210; p. 291.
- Water-lifting device. B. Muhsold. No. 1,133,996; Mar. 30; Gaz. vol. 212; p. 1623.
- Water-measuring device. P. A. Koehring. No. 1,149,922; Aug. 10; Gaz. vol. 217; p. 617.
- Water, Metallic receptacle for hot. J. S. De Forrest. No. 1,131,338; Mar. 9; Gaz. vol. 212; p. 553.
- Water-meter. L. T. Barnes. No. 1,127,849; Feb. 9; Gaz. vol. 211; p. 457.
- Water-meter. C. G. Brodie. No. 1,140,661; May 25; Gaz. vol. 214; p. 1142.
- Water-meter. J. M. Burton. No. 1,128,657; Feb. 16; Gaz. vol. 211; p. 786.
- Water-meter. J. M. Burton. No. 1,142,141; June 8; Gaz. vol. 215; p. 408.
- Water-meter. H. I. Dilts. No. 1,138,640; May 11; Gaz. vol. 214; p. 359.
- Water-meter. L. H. Nash. No. 1,150,955; Aug. 24; Gaz. vol. 217; p. 1098.
- Water-meter. H. A. Stephens. No. 1,164,425; Dec. 14; Gaz. vol. 221; p. 636.
- Water-meter. R. C. Thomas. No. 1,160,465; Nov. 16; Gaz. vol. 220; p. 806.
- Water-meter. L. Van Gilder. No. 1,146,674; July 13; Gaz. vol. 216; p. 615.
- Water-meter. H. J. Woodman. No. 1,164,441; Dec. 14; Gaz. vol. 221; p. 643.
- Water-meter box. M. M. Kane. No. 1,139,188; May 11; Gaz. vol. 214; p. 555.
- Water-meter, Current. A. J. Collar. No. 1,130,572; Mar. 2; Gaz. vol. 212; p. 257.
- Water-meter setting or connection. J. W. Calhoun. No. 1,142,667; June 8; Gaz. vol. 215; p. 590.
- Water-meters and the like, Hand-hole cover for. H. Kahrs. No. 1,165,783; Dec. 28; Gaz. vol. 221; p. 1190.
- Water-motor. H. J. Criner. No. 1,130,671; Mar. 2; Gaz. vol. 212; p. 290.
- Water-motor. B. F. Fowler. No. 1,166,199; Dec. 28; Gaz. vol. 221; p. 1339.
- Water-motor. J. Hawley. No. 1,143,905; June 22; Gaz. vol. 215; p. 1085.
- Water-motor. J. W. Kinney. No. 1,156,692; Oct. 12; Gaz. vol. 219; p. 502.
- Water-motor. R. E. Kirtley. No. 1,140,598; May 25; Gaz. vol. 214; p. 1121.
- Water-motor. T. Maltby. No. 1,140,756; May 25; Gaz. vol. 214; p. 1173.
- Water-motor. O. H. Olive. No. 1,157,416; Oct. 19; Gaz. vol. 219; p. 788.
- Water-motor. F. W. Oman. No. 1,123,357; Jan. 5; Gaz. vol. 210; p. 56.
- Water-motor. J. T. Plumer. No. 1,125,594; Jan. 19; Gaz. vol. 210; p. 922.
- Water-motor. M. O. Snediker. No. 1,152,566; Sept. 7; Gaz. vol. 218; p. 69.
- Water-motor. J. M. Stukes. No. 1,147,658; July 20; Gaz. vol. 216; p. 950.
- Water-pipes, Automatic low-temperature cut-off for. W. C. Lowe. No. 1,134,882; Apr. 6; Gaz. vol. 213; p. 286.
- Water or gas box. E. S. Landis. No. 1,153,631; Sept. 14; Gaz. vol. 218; p. 487.
- Water-pipes, Water-tight joint for concrete. A. M. Hirsh. C. Meriwether, and J. C. Mitchell. No. 1,143,117; June 15; Gaz. vol. 215; p. 788.
- Water-power. F. Brungess. No. 1,155,881; Oct. 5; Gaz. vol. 219; p. 194.
- Water-power apparatus. J. Hoffman. No. 1,143,118; June 15; Gaz. vol. 215; p. 788.

Alphabetical list of inventions—Continued.

- Water-power device. F. S. Morrison. No. 1,127,489; Feb. 9; Gaz. vol. 211; p. 331.
- Water-power plant. E. Bassett. No. 1,157,922; Oct. 26; Gaz. vol. 219; p. 1025.
- Water. Preservation of mineral. D. M. Perine. No. 1,160,317; Nov. 16; Gaz. vol. 220; p. 755.
- Water-purification apparatus. J. A. Murdock. No. 1,159,699; Nov. 9; Gaz. vol. 220; p. 483.
- Water-purifier. M. B. Cresswell. No. 1,158,450; Nov. 2; Gaz. vol. 220; p. 14.
- Water-purifier. J. C. Eckliff. No. 1,140,302; May 18; Gaz. vol. 214; p. 980.
- Water purifying and aerating apparatus. J. F. Quigley. No. 1,161,971; Nov. 30; Gaz. vol. 220; p. 1431.
- Water-purifying apparatus. J. C. W. Greth and M. F. Newman. No. 1,149,045; Aug. 3; Gaz. vol. 217; p. 198.
- Water-purifying apparatus. J. C. W. Greth and M. F. Newman. No. 1,149,750; Aug. 10; Gaz. vol. 217; p. 555.
- Water-purifying apparatus. H. B. Hartman. No. 1,139,969; May 18; Gaz. vol. 214; p. 864.
- Water-purifying apparatus. H. B. Hartman. No. 1,139,970; May 18; Gaz. vol. 214; p. 864.
- Water-purifying apparatus. J. M. Noll. No. 1,148,920; Aug. 3; Gaz. vol. 217; p. 154.
- Water-purifying appliance. Electrical. H. Clark. No. 1,163,321; Dec. 7; Gaz. vol. 221; p. 205.
- Water-purifying device. L. C. Lashmet. No. 1,157,233; Oct. 19; Gaz. vol. 219; p. 722.
- Water-purifying means. H. L. Ferguson. No. 1,128,121; Feb. 9; Gaz. vol. 211; p. 552.
- Water purifying or softening system. R. H. Gray and A. F. Stahlhut. No. 1,159,929; Nov. 9; Gaz. vol. 220; p. 568.
- Water, Raising and purifying. W. S. Franklin. No. 1,124,600; Jan. 12; Gaz. vol. 210; p. 534.
- Water raising and purifying apparatus. W. S. Franklin. No. 1,124,601; Jan. 12; Gaz. vol. 210; p. 534.
- Water-raising apparatus. W. T. Croslen. No. 1,153,198; Sept. 14; Gaz. vol. 218; p. 332.
- Water-raising apparatus. J. H. Henderson. No. 1,145,482; July 6; Gaz. vol. 216; p. 178.
- Water, Softening. K. Schrempf. No. 1,139,378; May 11; Gaz. vol. 214; p. 619.
- Water-softening apparatus. L. D. Kinzig. No. 1,153,931; Sept. 21; Gaz. vol. 218; p. 627.
- Water-softening means. G. Buchner. No. 1,162,024; Nov. 30; Gaz. vol. 220; p. 1450.
- Water-stage recorder. J. C. Stevens. No. 1,163,279; Dec. 7; Gaz. vol. 221; p. 190.
- Water-stage recorder, Long-distance. J. C. Stevens. No. 1,163,280; Dec. 7; Gaz. vol. 221; p. 190.
- Water-supply apparatus. M. J. Howlett. No. 1,125,319; Jan. 19; Gaz. vol. 210; p. 825.
- Water supply, Installation for warm-. H. Jungers. No. 1,140,597; May 25; Gaz. vol. 214; p. 1121.
- Water-supply system. L. A. Nitsche. No. 1,161,512; Nov. 23; Gaz. vol. 220; p. 1226.
- Water-supply system. C. Wolf. No. 1,155,024; Sept. 28; Gaz. vol. 218; p. 1028.
- Water system. J. W. Butts. No. 1,136,406; Apr. 20; Gaz. vol. 213; p. 907.
- Water system, Hydropneumatic. O. C. Cover. No. 1,129,334; Feb. 23; Gaz. vol. 211; p. 1059.
- Water-system-testing device. E. Kennedy. No. 1,155,821; Oct. 5; Gaz. vol. 219; p. 174.
- Water tank and filter. C. J. Wilkerson. No. 1,152,998; Sept. 7; Gaz. vol. 218; p. 227.
- Water-tank, Stock. O. L. Davis. No. 1,166,411; Dec. 28; Gaz. vol. 221; p. 1415.
- Water-tanks, Means for the control of the flow of air in. G. Sinclair. No. 1,159,721; Nov. 9; Gaz. vol. 220; p. 491.
- Water-tight joints, Compound for. J. M. Ferry. No. 1,163,427; Sept. 14; Gaz. vol. 218; p. 415.
- Water-tower. L. H. Gerding. No. 1,133,631; Mar. 30; Gaz. vol. 212; p. 1499.
- Water trap, High-. G. P. Bower. No. 1,147,702; July 27; Gaz. vol. 216; p. 1021.
- Water, Treating. W. H. Williams. No. 1,139,618; May 18; Gaz. vol. 214; p. 740.
- Water-treating apparatus, Automatic. L. D. Kinzig. No. 1,147,736; July 27; Gaz. vol. 216; p. 1033.
- Water-trough. G. Dynes. No. 1,149,507; Aug. 10; Gaz. vol. 217; p. 466.
- Water-tube boiler. J. E. Bell. No. 1,129,538; Feb. 23; Gaz. vol. 211; p. 1131.
- Water-tube boiler. J. E. Bell. No. 1,141,520; June 1; Gaz. vol. 215; p. 155.
- Water-tube boiler. W. D. Chester. No. 1,124,392; Jan. 12; Gaz. vol. 210; p. 458.
- Water-tube boiler. W. Hopf. No. 1,129,803; Feb. 23; Gaz. vol. 211; p. 1219.
- Water-tube boiler. W. Hopf. No. 1,162,063; Nov. 30; Gaz. vol. 220; p. 1463.
- Water-tube boiler. D. S. Jacobus. No. 1,134,077; Mar. 30; Gaz. vol. 212; p. 1652.
- Water-tube boiler. D. S. Jacobus. No. 1,162,065; Nov. 30; Gaz. vol. 220; p. 1464.
- Water-tube boiler. D. S. Jacobus. No. 1,162,066; Nov. 30; Gaz. vol. 220; p. 1464.
- Water-tube boiler. G. T. Ladd. No. 1,130,745; Mar. 9; Gaz. vol. 212; p. 350.
- Water-tube boiler. G. T. Ladd. No. 1,130,746; Mar. 9; Gaz. vol. 212; p. 350.
- Water-tube boiler. P. P. Palen and W. Burlingham. No. 1,152,341; Aug. 31; Gaz. vol. 217; p. 1619.
- Water-tube boiler. J. A. Scott. No. 1,158,865; Nov. 2; Gaz. vol. 220; p. 160.
- Water-tube boiler. S. Thurstensen. No. 1,157,737; Oct. 26; Gaz. vol. 219; p. 962.
- Water-tube boiler. C. and C. E. Ward. No. 1,152,248; Aug. 31; Gaz. vol. 217; p. 1586.
- Water-tube boiler. E. H. Wells. No. 1,150,913; Aug. 24; Gaz. vol. 217; p. 1033.
- Water-tube fire-box boiler. W. F. W. Henry. No. 1,152,021; Aug. 31; Gaz. vol. 217; p. 1508.
- Water-tube marine boiler. M. Vallino. No. 1,135,636; Apr. 13; Gaz. vol. 213; p. 594.
- Water under pressure, Device for controlling the flow of. R. E. Case and F. M. Wait. No. 1,132,439; Mar. 16; Gaz. vol. 212; p. 982.
- Water, Utilizing beet-molasses waste. F. W. Huber and R. W. Poindexter, Jr. No. 1,145,484; July 6; Gaz. vol. 216; p. 179.
- Water-wheel. J. Hay. No. 1,149,260; Aug. 10; Gaz. vol. 217; p. 378.
- Water-wheel governor. J. Pearson. No. 1,129,830; Feb. 23; Gaz. vol. 211; p. 1228.
- Water-wings. C. Holroyd. No. 1,132,346; Mar. 16; Gaz. vol. 212; p. 949.
- Waterer, Hog-. P. Bernard. No. 1,130,662; Mar. 2; Gaz. vol. 212; p. 287.
- Waterer, Stock-. G. Zimmerman. No. 1,162,539; Nov. 30; Gaz. vol. 220; p. 1628.
- Watering and water heating and supply tank, Automatically controlled stock-. J. E. Simmonds. No. 1,164,880; Dec. 21; Gaz. vol. 221; p. 835.
- Watering apparatus, Float-operated stock-. E. Springman. No. 1,161,745; Nov. 23; Gaz. vol. 220; p. 1305.
- Watering apparatus, Live-stock-. E. Thomas and P. V. Housman. No. 1,150,978; Aug. 24; Gaz. vol. 217; p. 1105.
- Watering apparatus, Stock-. A. I. Ralston. No. 1,157,122; Oct. 19; Gaz. vol. 219; p. 683.
- Watering device, Automatic stock-. F. McCracken. No. 1,126,806; Feb. 2; Gaz. vol. 211; p. 51.
- Watering device, Cattle-. H. L. Ferris. No. 1,160,588; Nov. 16; Gaz. vol. 220; p. 851.
- Watering device, Cattle-. H. L. Ferris. No. 1,162,286; Nov. 30; Gaz. vol. 220; p. 1542.
- Watering device, Stock-. S. T. Kelley. No. 1,137,214; Apr. 27; Gaz. vol. 213; p. 1231.
- Watering device, Stock-. E. L. Riley. No. 1,151,125; Aug. 24; Gaz. vol. 217; p. 1155.
- Watering fountain, Chicken-. G. Winkle. No. 1,154,825; Sept. 28; Gaz. vol. 218; p. 961.
- Watering-fountain, Sled. B. H. Gedge. No. 1,162,473; Nov. 30; Gaz. vol. 220; p. 1605.
- Watering tank and heater. S. B. Scheppmann. No. 1,135,851; Apr. 13; Gaz. vol. 213; p. 670.
- Watering-trough. J. A. Maynard. No. 1,139,132; May 11; Gaz. vol. 214; p. 535.
- Watering-trough. J. A. Maynard. No. 1,150,051; Aug. 17; Gaz. vol. 217; p. 723.
- Watering-trough. J. P. Olson. No. 1,150,877; Aug. 24; Gaz. vol. 217; p. 1072.
- Watering-trough. N. G. Olson. No. 1,158,831; Nov. 2; Gaz. vol. 220; p. 149.
- Watering-trough for fowls. J. L. Shute. No. 1,127,296; Feb. 2; Gaz. vol. 211; p. 222.
- Watering-trough, Sanitary. B. F. Simpson. No. 1,133,755; Mar. 30; Gaz. vol. 212; p. 1543.
- Waterproof composition. C. W. Bullock. No. 1,127,181; Feb. 2; Gaz. vol. 211; p. 182.
- Waterproof compound, Flexible hydraulic. A. F. Lester. No. 1,157,234; Oct. 19; Gaz. vol. 219; p. 723.
- Waterproof fabric and manufacturing same. H. Swain. No. 1,152,349; Aug. 31; Gaz. vol. 217; p. 1622.
- Waterproof materials and coatings, Making. J. F. Ryan. No. 1,132,687; Mar. 23; Gaz. vol. 212; p. 1122.
- Waterproof object or article. L. H. Baekeland. No. 1,160,363; Nov. 16; Gaz. vol. 220; p. 771.
- Waterproofing composition, Plastic. A. C. Horn. No. 1,149,519; Aug. 10; Gaz. vol. 217; p. 470.
- Waterproofing compound for cement, concrete, and the like. F. R. Stehm. No. 1,141,848; June 1; Gaz. vol. 215; p. 265.
- Waterproofing material and supplying the same to paper, Heating. G. R. Wyman. No. 1,165,367; Dec. 21; Gaz. vol. 221; p. 1006.
- Waterproofing material, Apparatus for treating articles of paper, cardboard, and the like with. A. Stephen. No. 1,140,626; May 25; Gaz. vol. 214; p. 1131.
- Waterproofing of fabrics, yarns, and other materials. A. M. Hart. No. 1,131,929; Mar. 16; Gaz. vol. 212; p. 797.
- Wattmeter, Electric. P. M. Lincoln. No. 1,156,412; Oct. 12; Gaz. vol. 219; p. 404.
- Wattmeters, Recording instrument for. S. B. Storer. No. 1,141,729; June 1; Gaz. vol. 215; p. 227.
- Wave-motor. H. E. Fisher. No. 1,156,355; Oct. 12; Gaz. vol. 219; p. 382.

- Wave-motor. J. H. Henderson. No. 1,126,999; Feb. 2; Gaz. vol. 211; p. 118.
- Wave-motor. J. Lachance. No. 1,154,033; Sept. 21; Gaz. vol. 218; p. 661.
- Wave-motor. H. J. Lawrence. No. 1,154,326; Sept. 21; Gaz. vol. 218; p. 762.
- Wave-motor. L. Mayolino. No. 1,140,521; May 25; Gaz. vol. 214; p. 1095.
- Waves, Method and apparatus for utilizing Hertzian. E. R. Gill. No. 1,155,653; Oct. 5; Gaz. vol. 219; p. 114.
- Wax. H. P. Vest. No. 1,139,603; May 18; Gaz. vol. 214; p. 735.
- Wax applicer, Sealing. A. Engländer. No. 1,150,584; Aug. 17; Gaz. vol. 217; p. 913.
- Wax-carver. J. B. Buchanan. No. 1,129,634; Feb. 23; Gaz. vol. 211; p. 1165.
- Wax-extractor. W. J. Brizius. No. 1,140,660; May 25; Gaz. vol. 214; p. 1142.
- Wax melter, Sealing. G. S. Proctor and J. B. Prendergast. No. 1,129,900; Mar. 2; Gaz. vol. 212; p. 23.
- Waxing paper, Machine and method for. W. L. Carter. No. 1,140,873; May 25; Gaz. vol. 214; p. 1216.
- Way-signal. J. M. Rossetot. No. 1,134,909; Apr. 6; Gaz. vol. 213; p. 294.
- Weaner, Calif. G. W. Benage. No. 1,144,020; June 22; Gaz. vol. 215; p. 1126.
- Weaner, Calif. W. A. Cobban. No. 1,142,026; June 8; Gaz. vol. 215; p. 368.
- Weaner, Calif. L. R. Dehler. No. 1,131,482; Mar. 9; Gaz. vol. 212; p. 603.
- Weaner, Calif. M. C. Hoover. No. 1,125,538; Jan. 19; Gaz. vol. 210; p. 902.
- Weaner, Calif. or colt. G. A. Holthaus and J. H. Ulbricht. No. 1,123,745; Jan. 5; Gaz. vol. 210; p. 187.
- Weaner, Colt and calf. J. Cox. No. 1,166,328; Dec. 28; Gaz. vol. 221; p. 1385.
- Weather and flame resistant composition for fibrous materials, &c. S. R. Church. No. 1,162,453; Nov. 30; Gaz. vol. 220; p. 1598.
- Weather-strip. S. P. Bricker. No. 1,143,033; June 15; Gaz. vol. 215; p. 758.
- Weather-strip. E. J. Faires. No. 1,149,355; Aug. 10; Gaz. vol. 217; p. 413.
- Weather-strip. C. C. Fisher. No. 1,132,323; Mar. 16; Gaz. vol. 212; p. 941.
- Weather-strip. G. H. Forsyth. No. 1,148,476; July 27; Gaz. vol. 216; p. 1294.
- Weather-strip. A. E. Gould. No. 1,136,794; Apr. 20; Gaz. vol. 213; p. 1043.
- Weather-strip. H. Higgin. No. 1,145,196; July 6; Gaz. vol. 216; p. 78.
- Weather-strip. C. R. Ingham. No. 1,166,413; Dec. 28; Gaz. vol. 221; p. 1416.
- Weather-strip. A. M. Lane. No. 1,134,209; Apr. 6; Gaz. vol. 213; p. 46.
- Weather-strip. W. C. Rands. No. 1,159,867; Nov. 9; Gaz. vol. 220; p. 546.
- Weather-strip. H. H. Schroyer. No. 1,157,125; Oct. 19; Gaz. vol. 219; p. 684.
- Weather-strip. G. St. John. No. 1,145,089; July 6; Gaz. vol. 216; p. 42.
- Weather-strip. J. F. Stevenson. No. 1,151,973; Aug. 31; Gaz. vol. 217; p. 1492.
- Weather-strip. W. M. Thompson. No. 1,142,995; June 15; Gaz. vol. 215; p. 745.
- Weather-strip attachment. W. H. Godfrey. No. 1,141,390; June 1; Gaz. vol. 215; p. 109.
- Weather-strip for doors. H. Bauer. No. 1,145,539; July 6; Gaz. vol. 216; p. 197.
- Weather-strip for doors. E. Youngquist. No. 1,149,108; Aug. 3; Gaz. vol. 217; p. 218.
- Weather-strip for wind-shields for automobiles. A. L. McCormick. (Reissue.) No. 1,3945; July 13; Gaz. vol. 216; p. 652.
- Weather-strip-making machine. J. A. Pearl. No. 1,150,145; Aug. 17; Gaz. vol. 217; p. 758.
- Weather-strip or draft-excluder for windows, doors, &c. L. J. Le Clair. No. 1,124,148; Jan. 5; Gaz. vol. 210; p. 322.
- Weather-stripping. D. Hoyt. No. 1,157,871; Oct. 26; Gaz. vol. 219; p. 1007.
- Weather-stripping. D. Hoyt. No. 1,157,872; Oct. 26; Gaz. vol. 219; p. 1007.
- Weatherproof covering. F. C. Overbury and H. C. Platts. No. 1,158,266; Oct. 26; Gaz. vol. 219; p. 1145.
- Weaving ribbons and fabrics, Apparatus for. L. Chomier and B. Fressinet. No. 1,132,440; Mar. 16; Gaz. vol. 212; p. 983.
- Web-changing device. F. W. Wood. No. 1,154,682; Sept. 28; Gaz. vol. 218; p. 914.
- Web-cutting mechanism. L. Huffman. No. 1,139,528; May 18; Gaz. vol. 214; p. 708.
- Web-cutting mechanism. A. Novick. No. 1,140,392; May 25; Gaz. vol. 214; p. 1047.
- Web-guiding device. Automatic. W. I. Lewis. No. 1,136,686; Apr. 20; Gaz. vol. 213; p. 1005.
- Web-handling apparatus, Automatic. L. H. A. Schwartz. No. 1,163,565; Dec. 7; Gaz. vol. 221; p. 290.
- Web-handling mechanism. W. A. Pringle. No. 1,149,684; Aug. 10; Gaz. vol. 217; p. 532.
- Web-roll renewer. A. W. Proctor. No. 1,147,750; July 27; Gaz. vol. 216; p. 1038.
- Web-rip. R. A. Moore. No. 1,130,100; Mar. 2; Gaz. vol. 212; p. 90.
- Web-transforming mechanism. W. A. Pringle. No. 1,152,436; Sept. 7; Gaz. vol. 218; p. 19.
- Webs, Machine for operating upon. S. G. Goss and R. C. Seymour. No. 1,159,017; Nov. 2; Gaz. vol. 220; p. 210.
- Webs, Tracker and guide apparatus for traveling. J. O'Connor. No. 1,160,193; Nov. 16; Gaz. vol. 220; p. 713.
- Webs, Treatment of the bast of the linden or lime-tree and willow for the manufacture of. A. Waganoff. No. 1,149,876; Aug. 10; Gaz. vol. 217; p. 600.
- Webbing to frames, Machine for securing. J. W. Snedeker. No. 1,152,565; Sept. 7; Gaz. vol. 218; p. 69.
- Wedge. D. E. Luten. No. 1,141,250; June 1; Gaz. vol. 215; p. 56.
- Wedge-lock for couplings. E. P. Kinne. No. 1,124,914; Jan. 12; Gaz. vol. 210; p. 645.
- Weed-burner. E. E. Allen. No. 1,166,305; Dec. 28; Gaz. vol. 221; p. 1378.
- Weed-cutter or cultivator. D. J. E. Conti. No. 1,157,150; Oct. 19; Gaz. vol. 219; p. 693.
- Weed-cutter, Self-cleaning. N. Hoffman, C. L. Triplett, T. D. and W. H. Fawcett. No. 1,125,534; Jan. 19; Gaz. vol. 210; p. 901.
- Weed-cutting implement. C. E. Douglas. No. 1,142,503; June 8; Gaz. vol. 215; p. 537.
- Weed-cutting machine. O. H. Bjur. No. 1,154,364; Sept. 21; Gaz. vol. 218; p. 776.
- Weed-cutting machine. M. Schoren. No. 1,160,774; Nov. 16; Gaz. vol. 220; p. 919.
- Weed-destroyer. H. P. Barnhart. No. 1,135,346; Apr. 13; Gaz. vol. 213; p. 491.
- Weed-destroying machine. P. J. Gannon. No. 1,152,940; Sept. 7; Gaz. vol. 218; p. 206.
- Weed-digging machine. C. O. Henderson. No. 1,147,241; July 20; Gaz. vol. 216; p. 833.
- Weed-puller. S. Kaufman. No. 1,134,618; Apr. 6; Gaz. vol. 213; p. 195.
- Weed-remover. J. Tomlin. No. 1,152,574; Sept. 7; Gaz. vol. 218; p. 72.
- Weeder. R. L. Bengel. No. 1,135,755; Apr. 13; Gaz. vol. 213; p. 635.
- Weeder. O. F. Busch. No. 1,161,109; Nov. 23; Gaz. vol. 220; p. 1081.
- Weeder. S. M. Isbell. No. 1,158,689; Nov. 2; Gaz. vol. 220; p. 98.
- Weeder. J. A. Kress. No. 1,131,714; Mar. 16; Gaz. vol. 212; p. 717.
- Weeder. A. J. Riggs. No. 1,149,949; Aug. 10; Gaz. vol. 217; p. 627.
- Weeder. E. H. Scott. No. 1,141,659; June 1; Gaz. vol. 215; p. 203.
- Weeder. S. A. Weitman. No. 1,144,013; June 22; Gaz. vol. 215; p. 1123.
- Weeder and cultivator. K. F. Gerhard. No. 1,149,126; Aug. 3; Gaz. vol. 217; p. 224.
- Weeder and cultivator. G. C. and H. K. Wolfe. (Reissue.) No. 1,3899; Apr. 6; Gaz. vol. 213; p. 325.
- Weeder and cultivator, Combined. A. H. Bastian. No. 1,144,314; June 22; Gaz. vol. 215; p. 1230.
- Weeder and cultivator, Combined. P. Hansen. No. 1,163,660; Dec. 14; Gaz. vol. 221; p. 368.
- Weeder and cultivator, Rotary. A. E. and H. F. Vrooman, and S. S. Swanson. No. 1,141,997; June 8; Gaz. vol. 215; p. 356.
- Weeder and hoe. F. H. Reichard. No. 1,136,438; Apr. 20; Gaz. vol. 213; p. 917.
- Weeder and pulverizer, Combined garden. O. H. Temte. No. 1,165,636; Dec. 28; Gaz. vol. 221; p. 1140.
- Weeder, Hand. S. Alunan. No. 1,142,869; June 15; Gaz. vol. 215; p. 701.
- Weeder or cultivator. A. Haworth. No. 1,144,196; June 22; Gaz. vol. 215; p. 1189.
- Weeding and scraping implement, Compound. A. E. Staples. No. 1,153,721; Sept. 14; Gaz. vol. 218; p. 520.
- Weeding and thinning plants and other purposes, Implement for. A. Rose. No. 1,128,051; Feb. 9; Gaz. vol. 211; p. 527.
- Weeding implement. A. A. Wirt. No. 1,133,776; Mar. 30; Gaz. vol. 212; p. 1551.
- Weeding-machine. T. A. Town. No. 1,126,917; Feb. 2; Gaz. vol. 211; p. 88.
- Welt-detecting machine. E. H. Ryon. No. 1,142,121; June 8; Gaz. vol. 215; p. 402.
- Weigher. C. Buchholz. No. 1,137,836; May 4; Gaz. vol. 214; p. 40.
- Weigher, Duplex. E. H. Messiter. No. 1,163,678; Dec. 14; Gaz. vol. 221; p. 374.
- Weighing and bagging machine. J. E. Henderson. No. 1,155,487; Oct. 5; Gaz. vol. 219; p. 57.
- Weighing and counting machine, Combined. M. Ruckes. No. 1,161,009; Nov. 16; Gaz. vol. 220; p. 1001.
- Weighing and filling machine. C. Redd. No. 1,126,083; Jan. 26; Gaz. vol. 210; p. 1132.
- Weighing and filling machine, Automatic. H. G. Dewey. No. 1,125,271; Jan. 19; Gaz. vol. 210; p. 809.
- Weighing and sorting apparatus. W. Fazackerley. No. 1,141,048; May 25; Gaz. vol. 214; p. 1276.

Alphabetical list of inventions—Continued.

- Weighing apparatus. P. Ghezzi. No. 1,128,128; Feb. 9; Gaz. vol. 211; p. 554.
- Weighing apparatus. G. Hutchinson. No. 1,147,400; July 20; Gaz. vol. 216; p. 890.
- Weighing apparatus. Z. Lipofsky. No. 1,143,638; June 22; Gaz. vol. 215; p. 994.
- Weighing apparatus. E. Outrebon. No. 1,157,716; Oct. 26; Gaz. vol. 219; p. 954.
- Weighing apparatus. J. D. Webber. No. 1,157,350; Oct. 19; Gaz. vol. 219; p. 764.
- Weighing apparatus, Automatic. S. H. Johnson. No. 1,135,379; Apr. 13; Gaz. vol. 213; p. 501.
- Weighing apparatus, Automatic. H. Richardson. No. 1,160,762; Nov. 16; Gaz. vol. 220; p. 915.
- Weighing apparatus, Automatic Liquid. L. N. Moeschler. No. 1,154,042; Sept. 21; Gaz. vol. 218; p. 665.
- Weighing apparatus, Computing. H. A. Carpenter and A. W. Warner. No. 1,156,864; Oct. 12; Gaz. vol. 219; p. 562.
- Weighing device. S. T. Neeley. No. 1,147,259; July 20; Gaz. vol. 216; p. 839.
- Weighing device. T. J. Sturtevant. No. 1,161,011; Nov. 16; Gaz. vol. 220; p. 1002.
- Weighing device, Automatic. O. O. Ozias. No. 1,135,609; Apr. 13; Gaz. vol. 213; p. 584.
- Weighing-machine. J. Bishop and E. P. Hughes. No. 1,131,108; Mar. 9; Gaz. vol. 212; p. 474.
- Weighing-machine. F. W. Burpee. No. 1,148,826; Aug. 3; Gaz. vol. 217; p. 123.
- Weighing-machine. J. Dobson. No. 1,130,154; Mar. 2; Gaz. vol. 212; p. 108.
- Weighing-machine. J. Dobson. No. 1,130,155; Mar. 2; Gaz. vol. 212; p. 109.
- Weighing-machine. W. L. Ross. No. 1,164,873; Dec. 21; Gaz. vol. 221; p. 833.
- Weighing-machine. T. J. Sturtevant. No. 1,163,792; Dec. 14; Gaz. vol. 221; p. 417.
- Weighing-machine. G. Walker. No. 1,132,891; Mar. 23; Gaz. vol. 212; p. 1196.
- Weighing-machine, Automatic. W. J. Phelps. No. 1,139,070; May 11; Gaz. vol. 214; p. 513.
- Weighing-machine recorder. H. Quertier. No. 1,125,710; Jan. 19; Gaz. vol. 210; p. 966.
- Weighing-machines, Feed-control device for automatic. J. A. Jamieson. No. 1,148,845; Aug. 3; Gaz. vol. 217; p. 130.
- Weighing mechanism. J. Paupa and G. F. Hochriem. No. 1,143,224; June 15; Gaz. vol. 215; p. 827.
- Weighing mechanism, Coin-controlled. W. Vanderziel and J. T. Goodall. No. 1,153,650; Sept. 14; Gaz. vol. 218; p. 493.
- Weighing pulverized material, Apparatus for automatically. W. Popow. No. 1,149,079; Aug. 3; Gaz. vol. 217; p. 210.
- Weight-motor. G. C. Andrews and L. V. Barnes. No. 1,164,323; Dec. 14; Gaz. vol. 221; p. 601.
- Weight-motor. C. McQueen. No. 1,136,251; Apr. 20; Gaz. vol. 213; p. 849.
- Weight-testing machine. E. H. Waugh. No. 1,137,936; May 4; Gaz. vol. 214; p. 74.
- Weights, Means for suspending counterbalance. J. B. Clermont. No. 1,150,173; Aug. 17; Gaz. vol. 217; p. 769.
- Welded joint. L. S. Schmidt. No. 1,158,307; Oct. 26; Gaz. vol. 219; p. 1162.
- Welded metal-work. M. Lachman. No. 1,134,079; Mar. 30; Gaz. vol. 212; p. 1653.
- Welded pipe. F. N. Speller. No. 1,149,696; Aug. 10; Gaz. vol. 217; p. 537.
- Welder, Electric. J. A. Osborn. No. 1,164,009; Dec. 14; Gaz. vol. 221; p. 491.
- Welder, Metallic electric. W. H. Dralle. No. 1,128,116; Feb. 9; Gaz. vol. 211; p. 550.
- Welder, Tube. M. B. Lloyd. No. 1,124,755; Jan. 12; Gaz. vol. 210; p. 589.
- Welding. J. H. L. De Bats. No. 1,152,610; Sept. 7; Gaz. vol. 218; p. 84.
- Welding. M. B. Lloyd. No. 1,141,068; May 25; Gaz. vol. 214; p. 1283.
- Welding. E. E. Slick. No. 1,161,419; Nov. 23; Gaz. vol. 220; p. 1195.
- Welding. E. L. Walker. No. 1,132,989; Mar. 23; Gaz. vol. 212; p. 1234.
- Welding aluminium and aluminium-containing alloys, Compound for. E. Thaulow. No. 1,139,923; May 18; Gaz. vol. 214; p. 848.
- Welding and apparatus for use therein, Method of electric. W. B. Cleveland. No. 1,160,261; Nov. 16; Gaz. vol. 220; p. 736.
- Welding and brazing the seams of metal tubes. M. B. Lloyd. No. 1,123,330; Jan. 5; Gaz. vol. 210; p. 46.
- Welding and fusion deposition of metals, Electric. A. P. Strommenger. No. 1,144,390; June 29; Gaz. vol. 215; p. 1285.
- Welding apparatus, Electric. W. B. Cleveland. No. 1,147,209; July 20; Gaz. vol. 216; p. 823.
- Welding apparatus, Electric. W. E. Haskin. No. 1,162,918; Dec. 7; Gaz. vol. 221; p. 64.
- Welding apparatus, Electric. J. A. Heany. No. 1,153,384; Sept. 14; Gaz. vol. 218; p. 399.
- Welding apparatus, Electric. O. A. Kenyon. No. 1,154,320; Sept. 21; Gaz. vol. 218; p. 760.
- Welding apparatus, Electric. L. S. Lachman. No. 1,123,558; Jan. 5; Gaz. vol. 210; p. 123.
- Welding apparatus, Electric. T. E. Murray. No. 1,156,426; Oct. 12; Gaz. vol. 219; p. 409.
- Welding apparatus, Electric. H. R. Woodrow. No. 1,145,642; July 6; Gaz. vol. 216; p. 233.
- Welding apparatus, Electric seam-. R. Mack. No. 1,135,539; Apr. 13; Gaz. vol. 213; p. 559.
- Welding apparatus, Electrical. W. E. Andrews. No. 1,141,517; June 1; Gaz. vol. 215; p. 154.
- Welding, Arc-. J. A. Seede. No. 1,156,502; Oct. 12; Gaz. vol. 219; p. 435.
- Welding, Electric. E. F. Collins. No. 1,144,350; June 29; Gaz. vol. 215; p. 1272.
- Welding, Electric. C. H. Kicklighter. No. 1,123,308; Jan. 5; Gaz. vol. 210; p. 37.
- Welding, Electric. C. H. Kicklighter. No. 1,123,309; Jan. 5; Gaz. vol. 210; p. 37.
- Welding, Electric. R. Mack. No. 1,143,220; June 15; Gaz. vol. 215; p. 826.
- Welding, Electric. J. A. Muir. No. 1,142,833; June 15; Gaz. vol. 215; p. 687.
- Welding, Electric-arc. M. Arendt. No. 1,146,989; July 20; Gaz. vol. 216; p. 746.
- Welding, Electric-resistance. A. M. Stanley. No. 1,138,154; May 4; Gaz. vol. 214; p. 152.
- Welding, Electric seam-. E. Thomson. No. 1,123,624; Jan. 5; Gaz. vol. 210; p. 146.
- Welding-flux. W. W. Hout. No. 1,131,521; Mar. 9; Gaz. vol. 212; p. 617.
- Welding-machine. C. B. Auel and J. A. Burns. No. 1,130,239; Mar. 2; Gaz. vol. 212; p. 138.
- Welding-machine. G. W. Beadle. No. 1,153,283; Sept. 14; Gaz. vol. 218; p. 362.
- Welding-machine. J. Cook. No. 1,130,258; Mar. 2; Gaz. vol. 212; p. 144.
- Welding-machine. A. S. Hatch. No. 1,145,413; July 6; Gaz. vol. 216; p. 153.
- Welding-machine, Electric. S. B. Field. No. 1,127,425; Feb. 9; Gaz. vol. 211; p. 306.
- Welding-machine, Electric. W. C. Lindemann and K. D. Camp. No. 1,155,497; Oct. 5; Gaz. vol. 219; p. 61.
- Welding-machine, Electric. F. Müller. No. 1,151,706; Aug. 31; Gaz. vol. 217; p. 1398.
- Welding-machine, Electric. W. C. Winfield and A. C. Taylor. No. 1,154,476; Sept. 21; Gaz. vol. 218; p. 812.
- Welding machine, Ring-. A. M. Bates. No. 1,124,258; Jan. 12; Gaz. vol. 210; p. 409.
- Welding machine, Tube-. M. B. Lloyd. No. 1,124,756; Jan. 12; Gaz. vol. 210; p. 589.
- Welding machine, Tube-. M. B. Lloyd. No. 1,124,763; Jan. 12; Gaz. vol. 210; p. 592.
- Welding mechanism, Continuous. M. B. Lloyd. No. 1,124,760; Jan. 12; Gaz. vol. 210; p. 591.
- Welding mechanism, Tube-. M. B. Lloyd. No. 1,124,764; Jan. 12; Gaz. vol. 210; p. 593.
- Welding mechanism, Tube-. M. B. Lloyd. No. 1,124,765; Jan. 12; Gaz. vol. 210; p. 593.
- Welding metals. S. W. Wohlrab. No. 1,161,366; Nov. 23; Gaz. vol. 220; p. 1175.
- Welding-piece for electrically-welded metal work. A. F. Rietzel. No. 1,128,515; Feb. 16; Gaz. vol. 211; p. 737.
- Welding pipe ends. O. Klinck. No. 1,162,698; Nov. 30; Gaz. vol. 220; p. 1678.
- Welding system, Arc-. J. Seede. No. 1,141,980; June 8; Gaz. vol. 215; p. 349.
- Welding the links of chains, rings, or the like, Machine for electrically. M. B. Ryan. No. 1,150,150; Aug. 17; Gaz. vol. 217; p. 760.
- Welding the longitudinal seams of metal tubes, Apparatus for. M. B. Lloyd. No. 1,124,758; Jan. 12; Gaz. vol. 210; p. 590.
- Welding the meeting edges of metallic articles, Apparatus for. M. Altman. (Reissue.) No. 1,3941; June 29; Gaz. vol. 215; p. 1480.
- Welding, Tube-. M. B. Lloyd. No. 1,124,766; Jan. 12; Gaz. vol. 210; p. 594.
- Welding turbine-blades, Electrically. S. Z. de Ferranti. No. 1,148,221; July 27; Gaz. vol. 216; p. 1205.
- Well-bailer. L. L. Richard. No. 1,160,654; Nov. 16; Gaz. vol. 220; p. 877.
- Well-boring apparatus. A. G. Willard and C. E. Wilcox. No. 1,149,486; Aug. 10; Gaz. vol. 217; p. 458.
- Well-boring apparatus, Gripping device for. G. S. Myers. No. 1,143,430; June 15; Gaz. vol. 215; p. 900.
- Well-boring tool. D. D. Buick. No. 1,159,172; Nov. 2; Gaz. vol. 220; p. 264.
- Well capper, Oil-. J. R. Lock. No. 1,130,181; Mar. 2; Gaz. vol. 212; p. 118.
- Well-casing drill. J. O. Kafader. No. 1,127,011; Feb. 2; Gaz. vol. 211; p. 123.
- Well-casing head. W. B. Wigle. No. 1,144,626; June 29; Gaz. vol. 215; p. 1364.
- Well-casing perforator. A. C. Graham. No. 1,162,601; Nov. 30; Gaz. vol. 220; p. 1647.
- Well-casing spear. W. Y. Jack. No. 1,155,926; Oct. 5; Gaz. vol. 219; p. 209.
- Well-cleaner. J. L. Wilson. No. 1,140,225; May 18; Gaz. vol. 214; p. 954.
- Well closure, Oil-. W. L. Bliss. No. 1,157,498; Oct. 19; Gaz. vol. 219; p. 816.

- Well coupling, Oil-. A. B. Solinger. No. 1,138,421; May 4; Gaz. vol. 214; p. 247.
- Well-drill jar. J. F. Craven. No. 1,133,841; Mar. 30; Gaz. vol. 212; p. 1574.
- Well-drilling apparatus. J. L. Dyson. No. 1,148,366; July 27; Gaz. vol. 216; p. 1258.
- Well-drilling apparatus, Driving-gearing for. C. F. Rigby. No. 1,157,582; Oct. 19; Gaz. vol. 219; p. 842.
- Well-drilling-cable clamp. C. F. Rigby. No. 1,159,096; Nov. 2; Gaz. vol. 220; p. 237.
- Well-drilling engines, Bracing for. E. E. Greve. No. 1,144,837; June 29; Gaz. vol. 215; p. 1437.
- Well-drilling implement. A. De Bretteville. No. 1,138,188; May 4; Gaz. vol. 214; p. 164.
- Well-drilling machinery, Deep-. A. W. Rinebold. No. 1,156,178; Oct. 12; Gaz. vol. 219; p. 322.
- Well-drilling machines, Stem-holder for. A. S. Donze and B. L. Walton. No. 1,162,144; Nov. 30; Gaz. vol. 220; p. 1492.
- Well-drilling register. N. M. Jones. No. 1,164,002; Dec. 14; Gaz. vol. 221; p. 489.
- Well-drilling tool. J. V. Sr., and A. G. Ridley. No. 1,166,153; Dec. 28; Gaz. vol. 221; p. 1322.
- Well-drilling tool. J. C. Theriot. No. 1,134,930; Apr. 6; Gaz. vol. 213; p. 302.
- Well jacks and swing-levers, Bearing for oil-. W. O. Platt. No. 1,129,229; Feb. 23; Gaz. vol. 211; p. 1022.
- Well, Locating liquid strata in a. T. A. Beecher. No. 1,133,218; Mar. 23; Gaz. vol. 212; p. 1315.
- Well outfit, Deep-. C. L. Parker. No. 1,149,677; Aug. 10; Gaz. vol. 217; p. 530.
- Well-packer. P. H. and F. H. Mack. No. 1,145,155; July 6; Gaz. vol. 216; p. 63.
- Well packer, Deep-. J. C. Stinson. No. 1,136,904; Apr. 20; Gaz. vol. 213; p. 1082.
- Well-packing. D. F. Hunt. No. 1,136,879; Apr. 20; Gaz. vol. 213; p. 1073.
- Well packing mechanism, Oil and water. W. Y. Fuqua. No. 1,127,423; Feb. 9; Gaz. vol. 211; p. 307.
- Well-pipe perforator. A. C. Graham. No. 1,125,513; Jan. 19; Gaz. vol. 210; p. 894.
- Well-piping, Machine for raising and lowering. M. B. Whisenant. No. 1,137,101; Apr. 27; Gaz. vol. 213; p. 1190.
- Well plug, Oil-. J. T. Hall. No. 1,137,205; Apr. 27; Gaz. vol. 213; p. 1227.
- Well-reamer. H. R. Hughes. No. 1,139,529; May 18; Gaz. vol. 214; p. 709.
- Well rig, Oil-. T. Fontenot. No. 1,156,678; Oct. 12; Gaz. vol. 219; p. 497.
- Well-sinking apparatus. P. Boyd and A. M. Saunders. No. 1,141,927; June 8; Gaz. vol. 215; p. 332.
- Well-sinking apparatus. M. T. Chapman. No. 1,163,213; Dec. 7; Gaz. vol. 221; p. 168.
- Well-strainer. E. Jones. No. 1,135,809; Apr. 13; Gaz. vol. 213; p. 654.
- Well-strainer. R. A. Rylie. No. 1,162,810; Dec. 7; Gaz. vol. 221; p. 28.
- Well stuffing-box. G. W. Church. No. 1,160,691; Nov. 16; Gaz. vol. 220; p. 891.
- Well system, Cold-storage-. F. M. Dunn and R. G. Kroh. No. 1,138,547; May 4; Gaz. vol. 214; p. 289.
- Well-tool. H. A. Bardeen. No. 1,132,062; Mar. 16; Gaz. vol. 212; p. 845.
- Well-tube-closing apparatus. V. Tacit and V. Puscarlu. No. 1,153,973; Sept. 21; Gaz. vol. 218; p. 641.
- Well-tubing anchor. R. C. Baker. No. 1,140,789; May 25; Gaz. vol. 214; p. 1184.
- Well-tubing anchor, Gas-. F. J. Moser. No. 1,150,875; Aug. 24; Gaz. vol. 217; p. 1071.
- Well-tubing catcher. T. H. Hanratty. No. 1,160,073; Nov. 9; Gaz. vol. 220; p. 616.
- Well-tubings, Device for holding. W. H. McKissick. No. 1,147,108; July 20; Gaz. vol. 216; p. 736.
- Wells, Apparatus for expelling oil or water from natural-gas. J. S. L. Purdy. No. 1,153,253; Sept. 14; Gaz. vol. 218; p. 351.
- Wells, Device for treating Artesian. R. Conrader. No. 1,123,690; Jan. 5; Gaz. vol. 210; p. 168.
- Wells, Ejector for. S. T. Nelson. No. 1,151,529; Aug. 24; Gaz. vol. 217; p. 1292.
- Wells, Hanger for polished-rod adjusters for. T. Cox. No. 1,154,486; Sept. 21; Gaz. vol. 218; p. 816.
- Wells, Head for oil-. F. J. Moser. No. 1,143,302; June 15; Gaz. vol. 215; p. 854.
- Wells, Horn-socket for oil and gas. E. E. Shaffer. No. 1,166,010; Dec. 28; Gaz. vol. 221; p. 1269.
- Wells, Increasing the flow of gas and vapors from. H. D. Hildebrand. No. 1,126,215; Jan. 26; Gaz. vol. 210; p. 1180.
- Wells, Means for preventing the accumulation of gas within oil-. A. Ames. No. 1,139,745; May 18; Gaz. vol. 214; p. 785.
- Wells, Method and apparatus for drilling oil and gas. E. E. Shaffer. No. 1,166,011; Dec. 28; Gaz. vol. 221; p. 1269.
- Wells, Oil-saving device for oil-. F. T. Kerns. No. 1,159,230; Nov. 2; Gaz. vol. 220; p. 286.
- Wells, Operating oil-. W. D. Huff. No. 1,140,982; May 25; Gaz. vol. 214; p. 1254.
- Wells or caissons, Light for. W. J. Newman. No. 1,134,959; Apr. 6; Gaz. vol. 213; p. 312.
- Wells, Packer for oil-. J. D. Griffin. No. 1,149,751; Aug. 10; Gaz. vol. 217; p. 556.
- Wells, Rotary drill-bit for oil-. W. M. Keck. No. 1,125,553; Jan. 19; Gaz. vol. 210; p. 907.
- Wells, Shoe for drilling oil-. E. E. Shaffer. No. 1,163,867; Dec. 14; Gaz. vol. 221; p. 442.
- Wells, Tool for drawing casings from. J. W. Davis. No. 1,145,125; July 6; Gaz. vol. 216; p. 54.
- Wells, Treating subterranean. E. N. Breitung and A. Pick. No. 1,152,392; Sept. 7; Gaz. vol. 218; p. 4.
- Welt-beating machine. A. F. Littlefield. No. 1,165,789; Dec. 28; Gaz. vol. 221; p. 1192.
- Welt-beating machine. F. H. Perry. No. 1,164,858; Dec. 21; Gaz. vol. 221; p. 829.
- Welt-beating machine. T. H. Seely. No. 1,158,570; Nov. 2; Gaz. vol. 220; p. 57.
- Welt-groover. P. A. Peterson. No. 1,152,757; Sept. 7; Gaz. vol. 218; p. 138.
- Welt guide, Stitch-down-. W. R. Bolton. No. 1,158,434; Nov. 2; Gaz. vol. 220; p. 7.
- Welt laying and attaching machine. A. H. Prenzel. No. 1,142,119; June 8; Gaz. vol. 215; p. 401.
- Welt-laying machine. J. Cavanagh. No. 1,161,843; Nov. 30; Gaz. vol. 220; p. 1386.
- Welt-preparing machine. T. H. Seely. No. 1,143,078; June 15; Gaz. vol. 215; p. 775.
- Welt-strip. O. C. Davis. No. 1,139,403; May 11; Gaz. vol. 214; p. 628.
- Welt-winding machine. A. Eppler. No. 1,141,449; June 1; Gaz. vol. 215; p. 129.
- Welts, Machine for preparing. T. H. Seely. No. 1,127,376; Feb. 2; Gaz. vol. 211; p. 247.
- Weltung-preparing machine. A. L. Black. No. 1,158,433; Nov. 2; Gaz. vol. 220; p. 7.
- Wheat-cleaning machine. O. M. and S. E. Friend. No. 1,136,596; Apr. 20; Gaz. vol. 213; p. 973.
- Wheat-huller. O. M. Graves. No. 1,127,430; Feb. 9; Gaz. vol. 211; p. 308.
- Wheat or grain, Appliance for picking. A. J. Bishop. No. 1,136,763; Apr. 20; Gaz. vol. 213; p. 1033.
- Wheat, Treating. O. M. and S. E. Friend. No. 1,136,597; Apr. 20; Gaz. vol. 213; p. 973.
- Wheel—See—
- Abrasive wheel.
 - Antiskid and traction wheel.
 - Apron-wheel.
 - Artillery-wheel.
 - Auto-wheel.
 - Automobile-wheel.
 - Automobile front wheel.
 - Automobile hand-wheel.
 - Automobile rear wheel.
 - Automobile steering-wheel.
 - Automobile-wheel.
 - Band-wheel.
 - Brake-wheel.
 - Bull-wheel.
 - Car-wheel.
 - Covering-wheel.
 - Crank-wheel.
 - Cushion-wheel.
 - Cushioned wheel.
 - Cycle and the like wheel.
 - Demountable wheel.
 - Dental grinding-wheel.
 - Detachable wheel.
 - Draft-wheel.
 - Elastic wheel.
 - Elastic or cushion wheel.
 - Elastic or cushioned wheel.
 - Engine-steering wheel.
 - Equalizing-wheel.
 - Fan-wheel.
 - Fifth-wheel.
 - Gear-wheel.
 - Grinding-wheel.
 - Hand or steering wheel.
 - Metal wheel.
 - Metallic wheel.
 - Motor-wheel.
 - Packing-wheel.
 - Platform-wheel.
 - Pneumatic wheel.
 - Polishing-wheel.
 - Propeller-wheel.
 - Pulley-wheel.
 - Puncture-proof wheel.
 - Resilient wheel.
 - Resilient-hub wheel.
 - Resilient or cushion wheel.
 - Self-oiling wheel.
 - Shock-absorbing wheel.
 - Skate-wheel.
 - Spring-wheel.
 - Spring-mounted wheel.
 - Spring telescopic-spoke wheel.
 - Sprocket-wheel.
 - Steel wheel.
 - Steering-wheel.
 - Suspension-wheel.
 - Toy wheel.
 - Toy decoration-wheel.
 - Traction-wheel.
 - Tractor-wheel.
 - Trammel-wheel.
 - Trolley-wheel.
 - Turbine-wheel.
 - Turbine bucket-wheel.
 - Valve-wheel.
 - Vehicle-wheel.
 - Vehicle spring-wheel.
 - Wagon-wheel.
 - Water-wheel.
 - Wind-wheel.
 - Windmill-wheel.
 - Wire wheel.
- Wheel. O. H. Attridge. No. 1,127,377; Feb. 2; Gaz. vol. 211; p. 248.
- Wheel. J. R. Ayotte. No. 1,142,226; June 8; Gaz. vol. 215; p. 438.
- Wheel. B. G. Baker. No. 1,133,355; Mar. 30; Gaz. vol. 212; p. 1399.
- Wheel. B. G. Baker. No. 1,151,988; Aug. 31; Gaz. vol. 217; p. 1497.
- Wheel. C. E. Bean. No. 1,144,632; June 29; Gaz. vol. 215; p. 1366.
- Wheel. T. C. Benbow. No. 1,138,442; May 4; Gaz. vol. 214; p. 254.
- Wheel. E. E. Berry. No. 1,161,285; Nov. 23; Gaz. vol. 220; p. 1146.
- Wheel. J. A. Borland. No. 1,126,174; Jan. 26; Gaz. vol. 210; p. 1166.
- Wheel. J. A. Borland. No. 1,144,996; July 6; Gaz. vol. 216; p. 6.
- Wheel. C. E. Bridges. No. 1,139,951; May 18; Gaz. vol. 214; p. 857.

Alphabetical list of inventions—Continued.

- Wheel. J. Brothers. No. 1,135,482; Apr. 13; Gaz. vol. 213; p. 522.
- Wheel. E. G. Budd and J. Ledwinka. No. 1,137,458; Apr. 27; Gaz. vol. 213; p. 1320.
- Wheel. R. J. Burrows and E. D. Ross. No. 1,131,819; Mar. 16; Gaz. vol. 212; p. 758.
- Wheel. W. W. Byam. No. 1,127,729; Feb. 9; Gaz. vol. 211; p. 413.
- Wheel. W. W. Byam. No. 1,130,886; Mar. 9; Gaz. vol. 212; p. 398.
- Wheel. J. L. Clark. No. 1,152,295; Aug. 31; Gaz. vol. 217; p. 1603.
- Wheel. W. H. and W. J. Clark. No. 1,145,553; July 6; Gaz. vol. 216; p. 202.
- Wheel. S. S. Conant. No. 1,160,140; Nov. 16; Gaz. vol. 220; p. 694.
- Wheel. Z. B. Custer. No. 1,150,103; Aug. 17; Gaz. vol. 217; p. 743.
- Wheel. G. F. Danielson. No. 1,161,291; Nov. 23; Gaz. vol. 220; p. 1148.
- Wheel. J. Y. Downing. No. 1,157,302; Oct. 19; Gaz. vol. 219; p. 747.
- Wheel. J. F. Evans. No. 1,154,497; Sept. 21; Gaz. vol. 218; p. 820.
- Wheel. E. Ferriss. No. 1,156,676; Oct. 12; Gaz. vol. 219; p. 497.
- Wheel. M. Leitch. No. 1,150,131; Aug. 17; Gaz. vol. 217; p. 753.
- Wheel. J. W. Lewellen. No. 1,157,559; Oct. 19; Gaz. vol. 219; p. 836.
- Wheel. A. McKillop. No. 1,124,934; Jan. 12; Gaz. vol. 210; p. 652.
- Wheel. C. D. Miller. No. 1,145,842; July 6; Gaz. vol. 216; p. 304.
- Wheel. T. A. Miller. No. 1,161,505; Nov. 23; Gaz. vol. 220; p. 1224.
- Wheel. H. D. Mills. No. 1,139,209; May 11; Gaz. vol. 214; p. 562.
- Wheel. H. V. Pannecoucke and H. Schaefer. No. 1,153,948; Sept. 21; Gaz. vol. 218; p. 633.
- Wheel. J. V. Pugh and F. Pountney. No. 1,148,987; Aug. 3; Gaz. vol. 217; p. 178.
- Wheel. U. S. Renne. No. 1,158,850; Nov. 2; Gaz. vol. 220; p. 156.
- Wheel. C. G. Tate. No. 1,159,289; Nov. 2; Gaz. vol. 220; p. 306.
- Wheel. P. C. Venske. No. 1,159,555; Nov. 9; Gaz. vol. 220; p. 432.
- Wheel. L. Willis. No. 1,148,268; July 27; Gaz. vol. 216; p. 1222.
- Wheel. L. A. Young. No. 1,156,124; Oct. 12; Gaz. vol. 219; p. 304.
- Wheel and rim therefor. Vehicle. J. H. Wagenhorst. No. 1,160,222; Nov. 16; Gaz. vol. 220; p. 722.
- Wheel and tire. M. C. Overman. No. 1,150,223; Aug. 17; Gaz. vol. 217; p. 786.
- Wheel and track heater. T. P. Burke. No. 1,124,289; Jan. 12; Gaz. vol. 210; p. 422.
- Wheel attachment. H. Grotzky. No. 1,163,004; Dec. 7; Gaz. vol. 221; p. 95.
- Wheel attachment. Auto. F. H. Babcock. No. 1,130,366; Mar. 2; Gaz. vol. 212; p. 182.
- Wheel attachment. Vehicle. S. Horváth. No. 1,150,597; Aug. 17; Gaz. vol. 217; p. 916.
- Wheel-balancing apparatus. F. A. Nichols. No. 1,158,712; Nov. 2; Gaz. vol. 220; p. 105.
- Wheel-balancing device. W. G. Schmitt. No. 1,160,000; Nov. 9; Gaz. vol. 220; p. 592.
- Wheel-brake. R. H. Rosenberg. No. 1,124,332; Jan. 12; Gaz. vol. 210; p. 436.
- Wheel-brake. H. A. Steen. No. 1,125,759; Jan. 19; Gaz. vol. 210; p. 983.
- Wheel-brake. J. T. Westwood. No. 1,138,707; May 11; Gaz. vol. 214; p. 383.
- Wheel buffer. Vehicle. P. de Pfyffer. No. 1,130,927; Mar. 9; Gaz. vol. 212; p. 412.
- Wheel-chair. M. F. Potter and R. F. Robinson. No. 1,164,863; Dec. 21; Gaz. vol. 221; p. 830.
- Wheel-chair or wheel-chair truck. J. R. Motes. No. 1,124,717; Jan. 12; Gaz. vol. 210; p. 576.
- Wheel-clamp. J. M. Williams. No. 1,166,029; Dec. 28; Gaz. vol. 221; p. 1275.
- Wheel construction. H. W. Sanford. (Reissue.) No. 13,872; Jan. 26; Gaz. vol. 210; p. 1346.
- Wheel construction. Car. W. A. Dorsey. No. 1,142,315; June 8; Gaz. vol. 215; p. 468.
- Wheel construction. Car. W. S. Purdy. No. 1,165,445; Dec. 28; Gaz. vol. 221; p. 1072.
- Wheel construction. Metal. R. B. McMullen. No. 1,161,491; Nov. 23; Gaz. vol. 220; p. 1218.
- Wheel construction. Spring. A. V. Mitchell. No. 1,127,271; Feb. 2; Gaz. vol. 211; p. 213.
- Wheel construction. Vehicle. E. O. Lindner. No. 1,137,154; Apr. 27; Gaz. vol. 213; p. 1210.
- Wheel control. Steering. J. P. Handy. No. 1,132,771; Mar. 23; Gaz. vol. 212; p. 1152.
- Wheel demountable rim. Automobile. E. K. Baker. No. 1,140,652; May 25; Gaz. vol. 214; p. 1139.
- Wheel demountable rim. Vehicle. N. Schenk. No. 1,128,531; Feb. 16; Gaz. vol. 211; p. 743.
- Wheel-direction indicator. E. Leap. No. 1,165,186; Dec. 21; Gaz. vol. 221; p. 944.
- Wheel dresser and truer. W. E. Adams. No. 1,144,277; June 22; Gaz. vol. 215; p. 1218.
- Wheel-driving mechanism. M. W. Peters. No. 1,141,578; June 1; Gaz. vol. 215; p. 176.
- Wheel-fender. F. Leach. No. 1,137,872; May 4; Gaz. vol. 214; p. 52.
- Wheel-fender. R. F. Rogers. No. 1,143,071; June 15; Gaz. vol. 215; p. 773.
- Wheel-fender and brake. Combined. F. M. Hayes. No. 1,158,804; Nov. 2; Gaz. vol. 220; p. 139.
- Wheel-fender. Vehicle. A. A. Puddefoot. No. 1,126,861; Feb. 2; Gaz. vol. 211; p. 70.
- Wheel-flange-lubricating device. J. Crouch and F. S. Robbins. No. 1,160,385; Nov. 16; Gaz. vol. 220; p. 779.
- Wheel-flange-lubricating mechanism. R. H. Scroggins. No. 1,129,127; Feb. 23; Gaz. vol. 211; p. 987.
- Wheel-flange lubricator. B. H. Gray. No. 1,136,003; Apr. 20; Gaz. vol. 213; p. 764.
- Wheel for motor and like vehicles. A. Roe. No. 1,127,285; Feb. 2; Gaz. vol. 211; p. 218.
- Wheel-forming machine. W. A. Denney. No. 1,164,172; Dec. 14; Gaz. vol. 221; p. 548.
- Wheel-guard. A. A. Blennerhassett. No. 1,134,178; Apr. 6; Gaz. vol. 213; p. 35.
- Wheel-guard. F. N. Root. No. 1,163,689; Dec. 14; Gaz. vol. 221; p. 378.
- Wheel-guard. O. Smith. No. 1,130,207; Mar. 2; Gaz. vol. 212; p. 127.
- Wheel-guard and sleigh-runner. Combined. W. E. Graham. No. 1,156,284; Oct. 12; Gaz. vol. 219; p. 356.
- Wheel-guard. Vehicle. E. J. Buckingham. No. 1,143,035; June 15; Gaz. vol. 215; p. 759.
- Wheel gudgeon. Bull. W. M. Keck. No. 1,160,513; Nov. 16; Gaz. vol. 220; p. 824.
- Wheel-lock. C. F. Herrmann. No. 1,160,893; Nov. 16; Gaz. vol. 220; p. 960.
- Wheel-lock. F. E. Winchester. No. 1,156,197; Oct. 12; Gaz. vol. 219; p. 327.
- Wheel-lock. Vehicle. O. E. Braun. No. 1,141,100; June 1; Gaz. vol. 215; p. 4.
- Wheel-lubricator. W. E. King. No. 1,163,414; Dec. 7; Gaz. vol. 221; p. 237.
- Wheel-mount. P. F. Chanute. No. 1,140,573; May 25; Gaz. vol. 214; p. 1112.
- Wheel-mount for perambulators. J. E. Loshbough. No. 1,123,905; Jan. 5; Gaz. vol. 210; p. 241.
- Wheel-mounting. L. Brown. No. 1,123,236; Jan. 5; Gaz. vol. 210; p. 12.
- Wheel-mounting. S. F. McBride. No. 1,147,739; July 27; Gaz. vol. 216; p. 1034.
- Wheel-mounting. D. Van Law. No. 1,155,175; Sept. 28; Gaz. vol. 218; p. 1083.
- Wheel-mounting. A. H. Worrest. No. 1,155,538; Oct. 5; Gaz. vol. 219; p. 75.
- Wheel mounting. Drive. E. M. Heylman. No. 1,135,794; Apr. 13; Gaz. vol. 213; p. 648.
- Wheel-mounting. Vehicle. J. Bolick. No. 1,132,825; Mar. 23; Gaz. vol. 212; p. 1174.
- Wheel mud-guard. Vehicle. E. Brunswick. No. 1,161,288; Nov. 23; Gaz. vol. 220; p. 1147.
- Wheel mud-guard. Vehicle. F. Malraux. No. 1,128,704; Feb. 16; Gaz. vol. 211; p. 802.
- Wheel of motor-cycles and other vehicles. E. Murray. No. 1,142,606; June 8; Gaz. vol. 215; p. 570.
- Wheel-press. A. A. Longaker. No. 1,137,643; Apr. 27; Gaz. vol. 213; p. 1381.
- Wheel-puller. J. R. Murphy. No. 1,146,897; July 20; Gaz. vol. 216; p. 711.
- Wheel-remover. P. Honn. No. 1,146,567; July 13; Gaz. vol. 216; p. 579.
- Wheel-rim. B. Dahl. No. 1,134,592; Apr. 6; Gaz. vol. 213; p. 186.
- Wheel-rim. J. A. Reid. No. 1,159,797; Nov. 9; Gaz. vol. 220; p. 521.
- Wheel-rim. M. J. Selzer. No. 1,161,348; Nov. 23; Gaz. vol. 220; p. 1168.
- Wheel-rim. Demountable. P. D. Harrower. No. 1,134,740; Apr. 6; Gaz. vol. 213; p. 240.
- Wheel-rim. Demountable. Q. L. Sparks. No. 1,165,810; Dec. 28; Gaz. vol. 221; p. 1200.
- Wheel-rim. Detachable. H. P. Kraft and M. C. Schweinert. No. 1,163,670; Dec. 14; Gaz. vol. 221; p. 371.
- Wheel-rim for holding pneumatic tires. H. Austin. No. 1,132,898; Mar. 23; Gaz. vol. 212; p. 1199.
- Wheel-rim-operating tool. Vehicle. R. W. Funk. No. 1,146,419; July 13; Gaz. vol. 216; p. 525.
- Wheel-rim-operating tool. Vehicle. R. W. Funk. No. 1,146,421; July 13; Gaz. vol. 216; p. 526.
- Wheel-rim. Rubber-jacketed. W. F. Stearns. No. 1,163,701; Dec. 14; Gaz. vol. 221; p. 384.
- Wheel-rim. Vehicle. R. S. Bryant. No. 1,125,055; Jan. 19; Gaz. vol. 210; p. 731.
- Wheel-rim. Vehicle. R. S. Bryant. No. 1,125,456; Jan. 19; Gaz. vol. 210; p. 875.
- Wheel-rim. Vehicle. R. S. Bryant. No. 1,162,563; Nov. 30; Gaz. vol. 220; p. 1635.
- Wheel-rim. Vehicle. R. S. Bryant. No. 1,163,736; Dec. 14; Gaz. vol. 221; p. 396.
- Wheel-rim. Vehicle. W. E. Copithorn. No. 1,165,390; Dec. 28; Gaz. vol. 221; p. 1052.
- Wheel-rim. Vehicle. B. Darrow. No. 1,127,412; Feb. 9; Gaz. vol. 211; p. 301.

Alphabetical list of inventions—Continued.

- Wheel-rim, Vehicle. R. W. Dick. No. 1,157,156; Oct. 19; Gaz. vol. 219; p. 695.
- Wheel-rim, Vehicle. R. W. Funk. No. 1,146,420; July 13; Gaz. vol. 216; p. 525.
- Wheel-rim, Vehicle. R. W. Funk. No. 1,146,422; July 13; Gaz. vol. 216; p. 526.
- Wheel-rim, Vehicle. J. C. Lewis. No. 1,127,785; Feb. 9; Gaz. vol. 211; p. 433.
- Wheel-rim, Vehicle. E. Q. Moses. No. 1,139,702; May 18; Gaz. vol. 214; p. 771.
- Wheel-rim, Vehicle. A. F. Pels. No. 1,129,899; Mar. 2; Gaz. vol. 212; p. 23.
- Wheel-rim, Vehicle. E. C. Shaw. No. 1,141,496; June 1; Gaz. vol. 215; p. 146.
- Wheel-rim, Vehicle. W. F. Stengel. No. 1,154,216; Sept. 21; Gaz. vol. 218; p. 723.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,136,981; Apr. 27; Gaz. vol. 213; p. 1145.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,136,982; Apr. 27; Gaz. vol. 213; p. 1145.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,136,983; Apr. 27; Gaz. vol. 213; p. 1146.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,136,984; Apr. 27; Gaz. vol. 213; p. 1147.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,136,985; Apr. 27; Gaz. vol. 213; p. 1147.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,160,221; Nov. 16; Gaz. vol. 220; p. 722.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,160,225; Nov. 16; Gaz. vol. 220; p. 724.
- Wheel-rim, Vehicle. J. H. Wagenhorst. No. 1,160,226; Nov. 16; Gaz. vol. 220; p. 724.
- Wheel-rim, Vehicle. P. S. Whiting. No. 1,163,577; Dec. 7; Gaz. vol. 221; p. 294.
- Wheel-rims, Operating device for split. D. J. Raymond. No. 1,163,456; Dec. 7; Gaz. vol. 221; p. 252.
- Wheel-runner. O. Keltstead. No. 1,148,386; July 27; Gaz. vol. 216; p. 1265.
- Wheel-scraper. G. W. Taylor. No. 1,139,599; May 18; Gaz. vol. 214; p. 733.
- Wheel scraper, Traction-. R. S. Nichol. No. 1,156,248; Oct. 12; Gaz. vol. 219; p. 345.
- Wheel scraper, Vehicle-. W. T. S. Pate. No. 1,153,108; Sept. 7; Gaz. vol. 218; p. 263.
- Wheel take-up mechanism. G. O. Bodenhoff. No. 1,150,989; Aug. 24; Gaz. vol. 217; p. 1109.
- Wheel traction device, Vehicle. J. B. Bartholomew. No. 1,150,846; Aug. 24; Gaz. vol. 217; p. 1061.
- Wheel-tread fender. J. H. Kuhns. No. 1,156,604; Oct. 12; Gaz. vol. 219; p. 470.
- Wheel-tread, Vehicle. L. H. Homrighausen. No. 1,155,925; Oct. 5; Gaz. vol. 219; p. 208.
- Wheel-truing apparatus. J. M. Griffin and O. P. Allen. No. 1,136,124; Apr. 20; Gaz. vol. 213; p. 804.
- Wheel with detachable rim. G. J. Arnold. No. 1,147,477; July 20; Gaz. vol. 216; p. 916.
- Wheel with detachable rim for solid-rubber tires. M. Polack. No. 1,146,205; July 13; Gaz. vol. 216; p. 451.
- Wheels and the like, Locking means for demountable rims for automobile-. F. D. Hiller, Jr., and M. R. Kohn. No. 1,137,319; Apr. 27; Gaz. vol. 213; p. 1270.
- Wheels, Antislipping attachment for vehicle-. G. J. Motter. No. 1,159,068; Nov. 2; Gaz. vol. 220; p. 227.
- Wheels, Antislipping device for power-driven-vehicle. J. A. Tautphaeus. No. 1,149,305; Aug. 10; Gaz. vol. 217; p. 395.
- Wheels, Antislipping device for traction-. C. H. Melvin. No. 1,161,148; Nov. 23; Gaz. vol. 220; p. 1095.
- Wheels, Apparatus for the manufacture of car and similar. J. M. Hansen. No. 1,142,419; June 8; Gaz. vol. 215; p. 506.
- Wheels, Armor for vehicle-. M. M. Jones. No. 1,146,076; July 13; Gaz. vol. 216; p. 406.
- Wheels, Attachable sleigh-shoe for vehicle-. J. E. Hobbs. No. 1,127,762; Feb. 9; Gaz. vol. 211; p. 425.
- Wheels, Balancing device for. O. C. Little. No. 1,138,592; May 4; Gaz. vol. 214; p. 303.
- Wheels, Brake-drum for vehicle-. N. Cornfield. No. 1,135,770; Apr. 13; Gaz. vol. 213; p. 640.
- Wheels, Combined bearing and lubricating device for vehicle-. O. A. Frick. No. 1,145,238; July 6; Gaz. vol. 216; p. 93.
- Wheels, Combined non-skid and traction device for dual-tired. M. H. Cleaver. No. 1,160,577; Nov. 16; Gaz. vol. 220; p. 847.
- Wheels, Construction of resilient. A. Speight. No. 1,160,336; Nov. 16; Gaz. vol. 220; p. 762.
- Wheels, Demountable rim for automobile-. E. K. Baker. No. 1,155,398; Oct. 5; Gaz. vol. 219; p. 26.
- Wheels, Demountable rim for automobile-. W. E. Copthorn. No. 1,160,977; Nov. 16; Gaz. vol. 220; p. 990.
- Wheels, Device for applying chains to. E. A. Harris. No. 1,153,490; Sept. 14; Gaz. vol. 218; p. 437.
- Wheels, Driving connection for traction-. J. Wagar. No. 1,128,082; Feb. 9; Gaz. vol. 211; p. 539.
- Wheels, Flexible non-skid device for dual-tired. M. H. Cleaver. No. 1,160,576; Nov. 16; Gaz. vol. 220; p. 847.
- Wheels having a smooth circumference, Device for starting. W. Egeling. No. 1,148,300; July 27; Gaz. vol. 216; p. 1233.
- Wheels, Helicoidal body and cutter for gear-. W. F. Zimmermann. No. 1,151,324; Aug. 24; Gaz. vol. 217; p. 1222.
- Wheels, Knuckle connection for automobile-. N. C. Miller. No. 1,142,190; June 8; Gaz. vol. 215; p. 425.
- Wheels, Lug-fastener for traction-. W. L. and J. M. Hackney. No. 1,165,403; Dec. 28; Gaz. vol. 221; p. 1058.
- Wheels, Manufacture of. F. A. Ellis. No. 1,134,674; Apr. 6; Gaz. vol. 213; p. 216.
- Wheels, Means for producing teeth on gear-. C. E. Drummond and C. Ridley. No. 1,135,780; Apr. 13; Gaz. vol. 213; p. 643.
- Wheels of vehicles, Carrying means for the road-. W. A. McCurd. No. 1,164,203; Dec. 14; Gaz. vol. 221; p. 557.
- Wheels or pulleys, Machine for truing. W. R. Anthony. No. 1,148,563; Aug. 3; Gaz. vol. 217; p. 29.
- Wheels, Protective device for steering-. T. E. Fogalsang. No. 1,154,389; Sept. 21; Gaz. vol. 218; p. 785.
- Wheels, Resilient tread for vehicle-. J. P. Murrey. No. 1,156,620; Oct. 12; Gaz. vol. 219; p. 476.
- Wheels, Shoe for pneumatic. J. W. Comer. No. 1,148,957; Aug. 3; Gaz. vol. 217; p. 167.
- Wheels, Traction device for vehicle-. E. J. Solomon. No. 1,132,805; Mar. 23; Gaz. vol. 212; p. 1167.
- Wheels, Traction means for vehicle-. H. A. Johnston. No. 1,127,362; Feb. 2; Gaz. vol. 211; p. 242.
- Wheels, Trammel-gage for vehicle-. C. C. Dedreux. No. 1,138,736; May 11; Gaz. vol. 214; p. 394.
- Wheels with wire spokes, Manufacture of. J. Zugmaier and J. Wörnag. No. 1,149,015; Aug. 3; Gaz. vol. 217; p. 188.
- Wheelbarrow. J. P. Bem. No. 1,146,046; July 13; Gaz. vol. 216; p. 396.
- Wheelbarrow. W. W. Boright. No. 1,135,431; Apr. 13; Gaz. vol. 213; p. 521.
- Wheelbarrow. J. D. Curtis. No. 1,134,258; Apr. 6; Gaz. vol. 213; p. 64.
- Wheelbarrow. G. S. Nichols. No. 1,154,536; Sept. 21; Gaz. vol. 218; p. 833.
- Wheelbarrow. J. C. Page. No. 1,157,034; Oct. 19; Gaz. vol. 219; p. 652.
- Wheelbarrow. M. O. Rickards. No. 1,158,291; Oct. 26; Gaz. vol. 219; p. 1155.
- Wheelbarrow. J. H. Royall. No. 1,137,425; Apr. 27; Gaz. vol. 213; p. 1309.
- Wheelbarrow, Folding. O. L. Thompson. No. 1,145,523; July 6; Gaz. vol. 216; p. 191.
- Whiffetree. T. F. Gregory. No. 1,154,246; Sept. 21; Gaz. vol. 218; p. 735.
- Whiffetree. B. P. Hanson. No. 1,137,712; Apr. 27; Gaz. vol. 213; p. 1402.
- Whiffetree. F. E. Lack. No. 1,149,372; Aug. 10; Gaz. vol. 217; p. 419.
- Whiffetree. E. D. Townsend. No. 1,159,811; Nov. 9; Gaz. vol. 220; p. 525.
- Whiffetree clip and hook. D. B. Jacobs. No. 1,125,546; Jan. 19; Gaz. vol. 210; p. 905.
- Whiffetree-guard. J. Weber. No. 1,143,924; June 22; Gaz. vol. 215; p. 1091.
- Whiffetree-hook. G. H. Griff. No. 1,125,308; Jan. 19; Gaz. vol. 210; p. 822.
- Whiffetree-hook. P. M. Hardy. No. 1,129,671; Feb. 23; Gaz. vol. 211; p. 1176.
- Whiffetree-hook. W. H. Spear. No. 1,135,733; Apr. 13; Gaz. vol. 213; p. 628.
- Whiffetree hook and clip. J. C. Vaughan. No. 1,144,573; June 29; Gaz. vol. 215; p. 1345.
- Whip. J. E. Bloomberg. No. 1,157,838; Oct. 26; Gaz. vol. 219; p. 996.
- Whip. V. Bourikas. No. 1,160,490; Nov. 16; Gaz. vol. 220; p. 816.
- Whip. A. J. Schmidt. No. 1,151,620; Aug. 31; Gaz. vol. 217; p. 1371.
- Whip. A. J. Schmidt. No. 1,157,424; Oct. 19; Gaz. vol. 219; p. 791.
- Whip, Buggy-. S. Hootman. No. 1,161,129; Nov. 23; Gaz. vol. 220; p. 1089.
- Whip, Electric. H. C. Dixon. No. 1,140,365; May 25; Gaz. vol. 214; p. 1037.
- Whip-holder. W. R. Harmon. No. 1,142,703; June 8; Gaz. vol. 215; p. 603.
- Whip-holder. C. H. Williams. No. 1,154,151; Sept. 21; Gaz. vol. 218; p. 702.
- Whip lock-socket. A. J. Evans. No. 1,134,599; Apr. 6; Gaz. vol. 213; p. 188.
- Whip-operating device. A. J. Chanut. No. 1,130,668; Mar. 2; Gaz. vol. 212; p. 289.
- Whip-socket. A. A. Walters. No. 1,165,302; Dec. 21; Gaz. vol. 221; p. 982.
- Whipping device. H. J. Schwartz. No. 1,159,805; Nov. 9; Gaz. vol. 220; p. 523.
- Whipping device. J. T. Walsh. No. 1,139,606; May 18; Gaz. vol. 214; p. 735.
- Whipping device, Animal-. H. Reid. No. 1,128,512; Feb. 16; Gaz. vol. 211; p. 736.
- Whistle. S. Dressler. No. 1,133,713; Mar. 30; Gaz. vol. 212; p. 1530.
- Whistle. R. Tikijan. No. 1,154,672; Sept. 28; Gaz. vol. 218; p. 911.
- Whistling device, Automatic. G. J. Juntunen. No. 1,141,344; June 1; Gaz. vol. 215; p. 91.

Alphabetical list of inventions—Continued.

- Wick-burner. W. McArthur, Jr. No. 1,152,742; Sept. 7; Gaz. vol. 218; p. 133.
- Wick-burner and wick. H. Ruppel. No. 1,146,658; July 18; Gaz. vol. 216; p. 610.
- Wick-raising device for oil-burners. L. T. Wilcox. No. 1,128,740; Feb. 16; Gaz. vol. 211; p. 814.
- Wick raising or adjusting device for shaving-mugs. J. O. Anderson. No. 1,124,250; Jan. 12; Gaz. vol. 210; p. 407.
- Wigwag flagman. J. A. Bell. No. 1,134,071; Mar. 30; Gaz. vol. 212; p. 1649.
- Wigwag flagman. J. A. Bell, C. R. Twitchell, and D. M. Palmer. No. 1,160,243; Nov. 16; Gaz. vol. 220; p. 730.
- Winch. G. C. Card and W. Myers. No. 1,125,813; Jan. 19; Gaz. vol. 210; p. 1002.
- Winch. T. L. Elmore. No. 1,150,351; Aug. 17; Gaz. vol. 217; p. 832.
- Winch. D. Jacques. No. 1,125,107; Jan. 19; Gaz. vol. 210; p. 749.
- Winch. I. F. Taylor. No. 1,159,290; Nov. 2; Gaz. vol. 220; p. 306.
- Winch mechanism. M. F. Torazzi. No. 1,131,574; Mar. 9; Gaz. vol. 212; p. 633.
- Wind-deflector and lockout. E. J. McMillan. No. 1,164,374; Dec. 14; Gaz. vol. 221; p. 619.
- Wind instrument. Brass. M. B. Martin. No. 1,158,384; Oct. 26; Gaz. vol. 219; p. 1188.
- Wind instruments, Making metal reeds for. E. Lynn. No. 1,133,868; Mar. 30; Gaz. vol. 212; p. 1584.
- Wind-power. Device for utilizing. P. Medved. No. 1,132,956; Mar. 23; Gaz. vol. 212; p. 1221.
- Wind-shield. E. P. Bidwell. No. 1,143,491; June 15; Gaz. vol. 215; p. 919.
- Wind-shield. A. W. Crouch. No. 1,159,476; Nov. 9; Gaz. vol. 220; p. 404.
- Wind-shield. M. S. Hart. No. 1,136,229; Apr. 20; Gaz. vol. 213; p. 842.
- Wind-shield. P. N. Landine. No. 1,161,230; Nov. 23; Gaz. vol. 220; p. 1126.
- Wind-shield. H. Marmon. No. 1,146,007; July 13; Gaz. vol. 216; p. 381.
- Wind-shield. W. B. McCarthy and J. T. Allmand. No. 1,162,733; Nov. 30; Gaz. vol. 220; p. 1691.
- Wind-shield. T. R. Minturn, Jr. No. 1,129,710; Feb. 23; Gaz. vol. 211; p. 1187.
- Wind-shield. J. L. Strickler. No. 1,146,666; July 13; Gaz. vol. 216; p. 612.
- Wind-shield and top construction. A. Moorhouse. No. 1,151,961; Aug. 31; Gaz. vol. 217; p. 1487.
- Wind-shield cleaner. B. C. Loring. No. 1,153,848; Sept. 14; Gaz. vol. 218; p. 564.
- Wind-shield-clearing device. G. Horniacheck. No. 1,163,011; Dec. 7; Gaz. vol. 221; p. 97.
- Wind-shield pivot. A. P. Bail. No. 1,143,932; June 22; Gaz. vol. 215; p. 1094.
- Wind-shield ventilator-bracket. C. F. Hess. No. 1,160,170; Nov. 16; Gaz. vol. 220; p. 705.
- Wind-shields. Hinge-joint for. H. W. Robbins. No. 1,155,441; Oct. 5; Gaz. vol. 219; p. 41.
- Wind-shields. Rain-protector for. E. C. Bartow. No. 1,132,900; Mar. 23; Gaz. vol. 212; p. 1200.
- Wind-wheel. W. W. Cain. No. 1,127,400; Feb. 9; Gaz. vol. 211; p. 297.
- Wind-wheel. Horizontally-rotatable. W. F. Palmer. No. 1,126,069; Jan. 26; Gaz. vol. 210; p. 1126.
- Windmill. S. G. Barr. No. 1,129,779; Feb. 23; Gaz. vol. 211; p. 1211.
- Windmill. C. A. Renbow. No. 1,143,803; June 22; Gaz. vol. 215; p. 1050.
- Windmill. A. Buttafoco. No. 1,144,932; June 29; Gaz. vol. 215; p. 1469.
- Windmill. R. Clade. No. 1,139,103; May 11; Gaz. vol. 214; p. 525.
- Windmill. J. J. Donnelly. No. 1,142,502; June 8; Gaz. vol. 215; p. 536.
- Windmill. C. L. Guley and W. L. Mann. No. 1,162,912; Dec. 7; Gaz. vol. 221; p. 61.
- Windmill. R. McMullan. No. 1,157,563; Oct. 19; Gaz. vol. 219; p. 837.
- Windmill. L. Noyes. No. 1,163,681; Dec. 14; Gaz. vol. 221; p. 375.
- Windmill. L. Noyes. No. 1,163,682; Dec. 14; Gaz. vol. 221; p. 375.
- Windmill. V. T. Palmer. No. 1,130,326; Mar. 2; Gaz. vol. 212; p. 168.
- Windmill. D. R. Scholes. No. 1,155,518; Oct. 5; Gaz. vol. 219; p. 69.
- Windmill. C. A. Sterner. No. 1,144,737; June 29; Gaz. vol. 215; p. 1404.
- Windmill. O. N. Vansyoc. No. 1,149,875; Aug. 10; Gaz. vol. 217; p. 600.
- Windmill. W. Weiner. No. 1,140,221; May 18; Gaz. vol. 214; p. 953.
- Windmill. F. Wenger. No. 1,133,595; Mar. 30; Gaz. vol. 212; p. 1485.
- Windmill attachment. T. A. Libke. No. 1,135,592; Apr. 13; Gaz. vol. 213; p. 578.
- Windmill, Automatic. L. Might. No. 1,154,930; Sept. 28; Gaz. vol. 218; p. 997.
- Windmill-brake. R. A. Bisbee. No. 1,152,271; Aug. 31; Gaz. vol. 217; p. 1594.
- Windmill control for electrical equipment. C. A. Sterner. No. 1,152,666; Sept. 7; Gaz. vol. 218; p. 106.
- Windmill crank and lever mechanism. H. Kallis. No. 1,154,404; Sept. 21; Gaz. vol. 218; p. 790.
- Windmill operating mechanism. G. Cuff. No. 1,143,811; June 22; Gaz. vol. 215; p. 1052.
- Windmill operating mechanism. A. E. Johnson and C. Nelson. No. 1,148,172; July 27; Gaz. vol. 216; p. 1189.
- Windmill-regulator. G. Sippert. No. 1,158,393; Oct. 26; Gaz. vol. 219; p. 1191.
- Windmill-wheel. W. J. Artibee. No. 1,123,465; Jan. 5; Gaz. vol. 210; p. 92.
- Windmills, Cam-operating mechanism for. M. C. Braga. No. 1,165,837; Dec. 28; Gaz. vol. 221; p. 1208.
- Windmotor. H. H. Macomber. No. 1,148,519; Aug. 3; Gaz. vol. 217; p. 13.
- Winding apparatus. C. R. Uebelmesser. No. 1,145,633; July 6; Gaz. vol. 216; p. 230.
- Winding apparatus, Bobbin-. A. De Laski. No. 1,132,076; Mar. 16; Gaz. vol. 212; p. 850.
- Winding-cages, hoists, &c., Safety device or arrester for colliery. J. Yates and C. Heyes. No. 1,127,713; Feb. 9; Gaz. vol. 211; p. 406.
- Winding device, Quick-. J. E. Johnson. No. 1,149,062; Aug. 3; Gaz. vol. 217; p. 204.
- Winding-drum. W. M. Keck. No. 1,152,895; Sept. 7; Gaz. vol. 218; p. 190.
- Winding-drum. L. Peloquin. No. 1,157,897; Oct. 26; Gaz. vol. 219; p. 1018.
- Winding-drum. P. H. Voight and O. C. Kuehne. No. 1,133,592; Mar. 30; Gaz. vol. 212; p. 1484.
- Winding-drums, Thrust-pin for. S. J. Baldwin and J. W. Sly. No. 1,129,441; Feb. 23; Gaz. vol. 211; p. 1097.
- Winding, Electrical. E. Keldel and F. Sieber. No. 1,159,228; Nov. 2; Gaz. vol. 220; p. 285.
- Winding-frame for small wares. A. Goets. No. 1,151,580; Aug. 31; Gaz. vol. 217; p. 1356.
- Winding-head. W. F. Smith. No. 1,144,618; June 29; Gaz. vol. 215; p. 1361.
- Winding-indicator. A. Aune. No. 1,143,567; June 15; Gaz. vol. 215; p. 945.
- Winding-machine. R. D. De Wolf. No. 1,123,256; Jan. 5; Gaz. vol. 210; p. 18.
- Winding-machine. M. Helm. No. 1,134,268; Apr. 6; Gaz. vol. 213; p. 68.
- Winding-machine. E. C. Lewis. No. 1,126,039; Jan. 26; Gaz. vol. 210; p. 1114.
- Winding-machine. J. O. McKean. No. 1,126,808; Feb. 2; Gaz. vol. 211; p. 51.
- Winding-machine. J. O. McKean. No. 1,126,809; Feb. 2; Gaz. vol. 211; p. 51.
- Winding-machine. W. E. Moll. No. 1,137,514; Apr. 27; Gaz. vol. 213; p. 1339.
- Winding-machine. F. S. Rand and G. N. Taylor. No. 1,163,037; Dec. 7; Gaz. vol. 221; p. 105.
- Winding-machine. C. Ryden. No. 1,138,320; May 4; Gaz. vol. 214; p. 210.
- Winding-machine. C. Ryden. No. 1,141,583; June 1; Gaz. vol. 215; p. 177.
- Winding-machine. P. Saracco. No. 1,147,752; July 27; Gaz. vol. 216; p. 1038.
- Winding-machine. C. R. Underhill. No. 1,140,924; May 25; Gaz. vol. 214; p. 1235.
- Winding-machine. C. R. Underhill. No. 1,143,335; June 15; Gaz. vol. 215; p. 865.
- Winding-machine-controlling device. J. W. West. No. 1,143,003; June 15; Gaz. vol. 215; p. 748.
- Winding-machine-driving mechanism. G. Sipp. No. 1,123,812; Jan. 5; Gaz. vol. 210; p. 209.
- Winding-machine for ribbons, laces, or the like. E. J. Marcouiller. No. 1,141,646; June 1; Gaz. vol. 215; p. 199.
- Winding machine, Package-. G. E. Allen. No. 1,135,090; Apr. 13; Gaz. vol. 213; p. 404.
- Winding machine, Pirn or cop. T. A. Boyd. No. 1,139,332; May 11; Gaz. vol. 214; p. 602.
- Winding machine, Spool-. C. Scott. No. 1,132,739; Mar. 23; Gaz. vol. 212; p. 1140.
- Winding-machine stop device. S. W. Wardwell. No. 1,151,073; Aug. 24; Gaz. vol. 217; p. 1137.
- Winding-machine stop mechanism. W. E. Beadle. No. 1,124,260; Jan. 12; Gaz. vol. 210; p. 410.
- Winding machine, Thread-. W. Marlow. No. 1,160,429; Nov. 16; Gaz. vol. 220; p. 794.
- Winding-machines, Tension device for. J. F. Benoit. No. 1,158,432; Nov. 2; Gaz. vol. 220; p. 7.
- Winding mechanism. J. V. Cuniff. No. 1,141,892; June 1; Gaz. vol. 215; p. 282.
- Winding mechanism. F. L. Sessions. No. 1,137,237; Apr. 27; Gaz. vol. 213; p. 1240.
- Winding mechanism. C. B. Webster. No. 1,141,890; June 1; Gaz. vol. 215; p. 280.
- Winding mechanism for forming yarn or thread packages. J. V. Cuniff. No. 1,141,894; June 1; Gaz. vol. 215; p. 283.
- Winding mechanism for forming yarn or thread packages. C. D. Lanning. No. 1,141,876; June 1; Gaz. vol. 215; p. 274.
- Winding mechanism for forming yarn or thread packages. J. K. Lanning. No. 1,141,875; June 1; Gaz. vol. 215; p. 274.

Alphabetical list of inventions—Continued.

- Winding strips. W. T. McCoy. No. 1,159,781; Nov. 9; Gaz. vol. 220; p. 515.
- Winding, twisting, and doubling machine. Yarn. M. Gordon. No. 1,164,343; Dec. 14; Gaz. vol. 221; p. 608.
- Winding. Two-speed induction-motor. B. G. Lamme. No. 1,158,512; Nov. 2; Gaz. vol. 220; p. 36.
- Winding wool into balls. Revolving holder for. G. G. Kent. No. 1,128,686; Feb. 16; Gaz. vol. 211; p. 795.
- Windlass. T. M. Torson. No. 1,142,738; June 8; Gaz. vol. 215; p. 613.
- Windlass-operating mechanism. C. S. Aldrich. No. 1,150,800; Aug. 17; Gaz. vol. 217; p. 986.
- Window. J. S. Berry. No. 1,155,200; Sept. 28; Gaz. vol. 218; p. 1091.
- Window. J. S. Berry. No. 1,158,887; Nov. 2; Gaz. vol. 220; p. 168.
- Window. D. R. Caler. No. 1,149,024; Aug. 3; Gaz. vol. 217; p. 191.
- Window. J. B. Clermont. No. 1,150,929; Aug. 24; Gaz. vol. 217; p. 1089.
- Window. J. J. Cooney. No. 1,124,298; Jan. 12; Gaz. vol. 210; p. 425.
- Window. H. W. Crane. No. 1,132,652; Mar. 23; Gaz. vol. 212; p. 1109.
- Window. R. Donaldson. No. 1,128,954; Feb. 16; Gaz. vol. 211; p. 891.
- Window. O. M. Edwards. No. 1,126,160; Jan. 26; Gaz. vol. 210; p. 1159.
- Window. L. W. Eiser. No. 1,153,208; Sept. 14; Gaz. vol. 218; p. 335.
- Window. J. A. Ferris. No. 1,127,981; Feb. 9; Gaz. vol. 211; p. 503.
- Window. K. L. Lodvee. No. 1,137,991; May 4; Gaz. vol. 214; p. 94.
- Window. F. Marsh. No. 1,145,159; July 6; Gaz. vol. 216; p. 65.
- Window. F. Mesker and J. Benc. No. 1,139,308; May 11; Gaz. vol. 214; p. 594.
- Window. G. Miller. No. 1,138,392; May 4; Gaz. vol. 214; p. 237.
- Window. C. B. Repp and I. L. Cochrane. No. 1,151,823; Aug. 31; Gaz. vol. 217; p. 1441.
- Window. J. J. Rojas. No. 1,147,188; July 20; Gaz. vol. 216; p. 814.
- Window. A. C. Sherman. No. 1,147,559; July 20; Gaz. vol. 216; p. 944.
- Window. M. F. Sitta. No. 1,145,274; July 6; Gaz. vol. 216; p. 104.
- Window. A. C. Soule. No. 1,124,671; Jan. 12; Gaz. vol. 210; p. 560.
- Window. A. C. Soule. No. 1,155,014; Sept. 28; Gaz. vol. 218; p. 1025.
- Window. A. C. Soule and L. A. Larsen. No. 1,159,604; Nov. 9; Gaz. vol. 220; p. 450.
- Window. W. S. Warren. No. 1,139,244; May 11; Gaz. vol. 214; p. 573.
- Window and casement. V. G. Crittall. No. 1,132,834; Mar. 23; Gaz. vol. 212; p. 1177.
- Window and door screen. J. W. Rhoades. No. 1,166,260; Dec. 28; Gaz. vol. 221; p. 1362.
- Window and like attachment. J. B. Clermont. No. 1,150,174; Aug. 17; Gaz. vol. 217; p. 769.
- Window and veranda box. A. J. Martin. No. 1,139,883; May 18; Gaz. vol. 214; p. 834.
- Window. Antifrosting. W. N. Johnson. No. 1,143,402; June 15; Gaz. vol. 215; p. 890.
- Window-antirattler. J. Saul. No. 1,145,925; July 13; Gaz. vol. 216; p. 352.
- Window attachment. A. Abraham. No. 1,139,008; May 11; Gaz. vol. 214; p. 491.
- Window attachment. W. Faulhaber. No. 1,164,340; Dec. 14; Gaz. vol. 221; p. 607.
- Window attachment. T. Podmore. No. 1,141,579; June 1; Gaz. vol. 215; p. 176.
- Window automatic lock, Metallic. D. C. Briggs. No. 1,125,951; Jan. 26; Gaz. vol. 210; p. 1082.
- Window-balance. J. B. Walser. No. 1,131,097; Mar. 9; Gaz. vol. 212; p. 470.
- Window-head fastener. A. J. Des Champs. No. 1,142,029; June 8; Gaz. vol. 215; p. 369.
- Window-head fastener. H. C. Tripp. No. 1,144,571; June 29; Gaz. vol. 215; p. 1345.
- Window. Burglar-proof. W. W. Davis. No. 1,142,403; June 8; Gaz. vol. 215; p. 501.
- Window-button. G. V. Bratzel. No. 1,165,151; Dec. 21; Gaz. vol. 221; p. 932.
- Window, Casement-. R. F. Nichols. No. 1,143,059; June 15; Gaz. vol. 215; p. 768.
- Window-catch. M. Piotrowski. No. 1,148,334; July 27; Gaz. vol. 216; p. 1246.
- Window-catch, Automatic. F. W. Doering, Jr. No. 1,157,854; Oct. 26; Gaz. vol. 219; p. 1001.
- Window-catch, Automatic. I. R. Williams. No. 1,135,147; Apr. 13; Gaz. vol. 213; p. 425.
- Window-chair. E. Theraul. No. 1,149,165; Aug. 3; Gaz. vol. 217; p. 239.
- Window-cleaner. W. T. Baugh. No. 1,139,834; May 18; Gaz. vol. 214; p. 817.
- Window-cleaner. L. Bottenstein. No. 1,151,758; Aug. 31; Gaz. vol. 217; p. 1417.
- Window-cleaner. L. F. Briggs. No. 1,130,566; Mar. 2; Gaz. vol. 212; p. 254.
- Window-cleaner. O. G. Clay. No. 1,156,522; Oct. 12; Gaz. vol. 219; p. 442.
- Window-cleaner. M. R. K. Fowlkes. No. 1,163,398; Dec. 7; Gaz. vol. 221; p. 233.
- Window-cleaner. W. Kajardt. No. 1,162,784; Dec. 7; Gaz. vol. 221; p. 18.
- Window-cleaner. F. S. Neydhardt. No. 1,142,609; June 8; Gaz. vol. 215; p. 571.
- Window-cleaner. L. Sonderegger. No. 1,137,546; Apr. 27; Gaz. vol. 213; p. 1349.
- Window-cleaner. Pneumatically-operated. F. W. Hogg. No. 1,144,203; June 22; Gaz. vol. 215; p. 1192.
- Window-cleaner's life-belt. W. C. Fawkes. No. 1,164,589; Dec. 14; Gaz. vol. 221; p. 692.
- Window-cleaner's platform. M. Mishel. No. 1,165,435; Dec. 28; Gaz. vol. 221; p. 1069.
- Window-cleaning attachment. W. Yamada and G. K. Suzuki. No. 1,162,122; Nov. 30; Gaz. vol. 220; p. 1485.
- Window-cleaning device. M. Black. No. 1,130,703; Mar. 9; Gaz. vol. 212; p. 336.
- Window-cleaning device. E. Gallo. No. 1,165,771; Dec. 28; Gaz. vol. 221; p. 1187.
- Window-cleaning device. T. E. Kirk. No. 1,152,519; Sept. 7; Gaz. vol. 218; p. 50.
- Window-cleaning device. C. B. Runge. No. 1,140,001; May 18; Gaz. vol. 214; p. 876.
- Window-cleaning device. J. J. Tracy. No. 1,158,590; Nov. 2; Gaz. vol. 220; p. 64.
- Window cleaning device and ventilator. Safety. J. B. Morrow and C. P. Geritz. No. 1,133,306; Mar. 30; Gaz. vol. 212; p. 1381.
- Window-closing device. J. A. Stockwell. No. 1,124,969; Jan. 12; Gaz. vol. 210; p. 665.
- Window-closing mechanism. A. Kiekert. No. 1,131,247; Mar. 9; Gaz. vol. 212; p. 522.
- Window construction. L. M. Carl. No. 1,123,681; Jan. 5; Gaz. vol. 210; p. 165.
- Window construction. P. La Framboise. No. 1,125,504; Jan. 19; Gaz. vol. 210; p. 891.
- Window construction. J. F. O'Brien. No. 1,157,031; Oct. 19; Gaz. vol. 219; p. 651.
- Window construction. C. E. Somers. No. 1,138,326; May 4; Gaz. vol. 214; p. 213.
- Window construction for buildings. W. L. Welton and J. Herndon. No. 1,159,142; Nov. 2; Gaz. vol. 220; p. 253.
- Window construction, Metal. G. H. Forsyth. No. 1,131,625; Mar. 9; Gaz. vol. 212; p. 652.
- Window control. J. Sinnott. No. 1,145,623; July 6; Gaz. vol. 216; p. 226.
- Window. Disappearing. A. S. Falconer. No. 1,125,992; Jan. 26; Gaz. vol. 210; p. 1097.
- Window-envelope inclosures, Folder for. S. H. Mudge. No. 1,164,844; Dec. 21; Gaz. vol. 221; p. 824.
- Window-fastener. M. Fitzgerald. No. 1,142,412; June 8; Gaz. vol. 215; p. 504.
- Window-fastener. A. Leal. No. 1,126,793; Feb. 2; Gaz. vol. 211; p. 46.
- Window-fastener. W. H. McAllister. No. 1,143,417; June 15; Gaz. vol. 215; p. 895.
- Window-fastening. J. W. Hogg, Jr. No. 1,137,321; Apr. 27; Gaz. vol. 213; p. 1271.
- Window-fastening. W. C. Kentzer. No. 1,135,696; Apr. 13; Gaz. vol. 213; p. 615.
- Window-fixture. D. E. Hipolito. No. 1,123,742; Jan. 5; Gaz. vol. 210; p. 186.
- Window-frame. T. Christoffel. No. 1,135,662; Apr. 13; Gaz. vol. 213; p. 604.
- Window-frame. P. S. Delany. No. 1,146,138; July 13; Gaz. vol. 216; p. 427.
- Window-frame. E. J. Laragy. No. 1,129,497; Feb. 23; Gaz. vol. 211; p. 1117.
- Window-frame, Extensible. J. Marci. No. 1,144,046; June 22; Gaz. vol. 215; p. 1136.
- Window-frame guard-strip. C. P. Gifford. No. 1,145,303; July 6; Gaz. vol. 216; p. 114.
- Window-frame, Metallic. D. E. Shrauger. No. 1,134,642; Apr. 6; Gaz. vol. 213; p. 205.
- Window-guard. H. Le Guornick. No. 1,143,588; June 15; Gaz. vol. 215; p. 953.
- Window guard and sign. L. F. Ryan. No. 1,123,930; Jan. 5; Gaz. vol. 210; p. 249.
- Window-guard device. H. F. Jones. No. 1,165,782; Dec. 28; Gaz. vol. 221; p. 1190.
- Window-holder. O. Johnson. No. 1,154,317; Sept. 21; Gaz. vol. 218; p. 759.
- Window holder, Casement-. A. F. Kleinschmidt. No. 1,144,212; June 22; Gaz. vol. 215; p. 1196.
- Window-lock. L. E. De Neergaard. No. 1,157,767; Oct. 26; Gaz. vol. 219; p. 971.
- Window-lock. E. M. Hoagland. No. 1,154,861; Sept. 28; Gaz. vol. 218; p. 972.
- Window-lock. A. Hundert. No. 1,139,870; May 18; Gaz. vol. 214; p. 830.
- Window-lock. T. A. Monsees. No. 1,148,705; Aug. 3; Gaz. vol. 217; p. 79.
- Window-lock. R. D. Shumate. No. 1,141,841; June 1; Gaz. vol. 215; p. 263.
- Window-lock. P. J. Stadtherr. No. 1,144,007; June 22; Gaz. vol. 215; p. 1121.

Alphabetical list of inventions—Continued.

- Window lock and stop, Combined. R. Murn. No. 1,160,641; Nov. 16; Gaz. vol. 220; p. 872.
- Window-lock, Automatic. P. M. Armbruster. No. 1,161,583; Nov. 23; Gaz. vol. 220; p. 1251.
- Window-locking device. J. G. Locke. No. 1,137,502; Apr. 27; Gaz. vol. 213; p. 1334.
- Window meeting-rail, Metal-. E. R. Probert. No. 1,163,365; Dec. 7; Gaz. vol. 221; p. 222.
- Window, Metal-frame. W. D. Watson and O. H. Iman. No. 1,132,233; Mar. 16; Gaz. vol. 212; p. 908.
- Window-mounting. J. Bast. No. 1,160,366; Nov. 16; Gaz. vol. 220; p. 772.
- Window opening and closing device. A. Struthers. No. 1,142,207; June 8; Gaz. vol. 215; p. 430.
- Window-operating apparatus. A. K. Lovell. No. 1,152,425; Sept. 7; Gaz. vol. 218; p. 16.
- Window-operating device. H. Henderson. No. 1,125,317; Jan. 19; Gaz. vol. 210; p. 825.
- Window-operating device, Self-locking. S. E. Cibulas. No. 1,157,760; Oct. 26; Gaz. vol. 219; p. 969.
- Window-operating mechanism. C. P. Pond. No. 1,151,388; Aug. 24; Gaz. vol. 217; p. 1243.
- Window-operating mechanism. P. Rasmussen and M. F. Goularte. No. 1,153,404; Sept. 14; Gaz. vol. 218; p. 407.
- Window operator, Casement-. B. S. Gallup. No. 1,148,375; July 27; Gaz. vol. 216; p. 1261.
- Window or door, Sash-controlled ventilating. G. A. Fair. No. 1,136,785; Apr. 20; Gaz. vol. 213; p. 1040.
- Window or door, Ventilating. G. A. Fair. No. 1,136,784; Apr. 20; Gaz. vol. 213; p. 1039.
- Window-platform. J. M. Embree. No. 1,159,368; Nov. 9; Gaz. vol. 220; p. 365.
- Window-regulator. J. E. Marsden. No. 1,155,754; Oct. 5; Gaz. vol. 219; p. 148.
- Window, Reversible. E. T. Galley. No. 1,166,356; Dec. 28; Gaz. vol. 221; p. 1395.
- Window safety device. L. Saladino. No. 1,162,517; Nov. 30; Gaz. vol. 220; p. 1621.
- Window-screen. W. S. Bridges. No. 1,131,204; Mar. 9; Gaz. vol. 212; p. 507.
- Window-screen. C. C. Burgwald. No. 1,158,116; Oct. 26; Gaz. vol. 219; p. 1094.
- Window-screen. M. E. Crandall. No. 1,142,311; June 8; Gaz. vol. 215; p. 466.
- Window-screen. J. I. Duntley. No. 1,159,194; Nov. 2; Gaz. vol. 220; p. 273.
- Window-screen. C. H. Fulde. No. 1,126,442; Jan. 26; Gaz. vol. 210; p. 1260.
- Window-screen. J. L. Gill. No. 1,133,127; Mar. 23; Gaz. vol. 212; p. 1283.
- Window-screen. F. M. Gustin. No. 1,123,276; Jan. 5; Gaz. vol. 210; p. 25.
- Window-screen. R. Heinsohn. No. 1,150,865; Aug. 17; Gaz. vol. 217; p. 836.
- Window-screen. H. Higgin. No. 1,143,965; June 22; Gaz. vol. 215; p. 1106.
- Window-screen. W. E. James. No. 1,138,295; May 4; Gaz. vol. 214; p. 200.
- Window-screen. A. Kuczor. No. 1,125,127; Jan. 19; Gaz. vol. 210; p. 756.
- Window-screen. A. Kuczor. No. 1,125,128; Jan. 19; Gaz. vol. 210; p. 756.
- Window-screen. G. H. Lambert. No. 1,139,982; May 18; Gaz. vol. 214; p. 869.
- Window-screen. G. A. Matter. No. 1,145,603; July 6; Gaz. vol. 216; p. 219.
- Window-screen. A. C. Oesterla. No. 1,128,815; Feb. 16; Gaz. vol. 211; p. 841.
- Window-screen. C. W. Rodecker. No. 1,146,818; July 20; Gaz. vol. 216; p. 685.
- Window-screen. W. A. Sanders. No. 1,127,289; Feb. 2; Gaz. vol. 211; p. 220.
- Window-screen. E. C. Schenk. No. 1,143,863; June 22; Gaz. vol. 215; p. 1071.
- Window-screen. E. Sonntag. No. 1,136,730; Apr. 20; Gaz. vol. 213; p. 1021.
- Window-screen. H. E. Southworth. No. 1,153,140; Sept. 7; Gaz. vol. 218; p. 273.
- Window-screen. R. J. Stanley. No. 1,140,413; May 25; Gaz. vol. 214; p. 1055.
- Window-screen. J. E. Taylor. No. 1,161,084; Nov. 23; Gaz. vol. 220; p. 1072.
- Window-screen. J. B. Toth. No. 1,160,789; Nov. 16; Gaz. vol. 220; p. 923.
- Window-screen. O. E. Vanasdale. No. 1,141,996; June 8; Gaz. vol. 215; p. 355.
- Window-screen, Adjustable. A. A. Hoyt. No. 1,148,513; Aug. 3; Gaz. vol. 217; p. 10.
- Window-screen attachment. H. Higgin. No. 1,140,376; May 25; Gaz. vol. 214; p. 1041.
- Window-screen, Automatic. R. M. Matthews. No. 1,150,000; Aug. 10; Gaz. vol. 217; p. 646.
- Window-screen, Disappearing. J. A. Bridges. No. 1,155,546; Oct. 5; Gaz. vol. 219; p. 78.
- Window-screen, Extensible. R. T. Bishop. No. 1,130,565; Mar. 2; Gaz. vol. 212; p. 254.
- Window-screen, Extensible metallic. C. W. Burkhead. No. 1,158,440; Nov. 2; Gaz. vol. 220; p. 10.
- Window-screen guide. G. R. Taylor. No. 1,127,316; Feb. 2; Gaz. vol. 211; p. 227.
- Window-screen lock. K. L. Sherwood. No. 1,149,790; Aug. 10; Gaz. vol. 217; p. 569.
- Window screen, Revolving-. H. Higgin and C. Traut. No. 1,165,670; Dec. 28; Gaz. vol. 221; p. 1151.
- Window screen, Revolving-. H. Higgin and C. Traut. No. 1,165,671; Dec. 28; Gaz. vol. 221; p. 1152.
- Window-screen, Roller. W. H. Haskins. No. 1,132,773; Mar. 23; Gaz. vol. 212; p. 1153.
- Window-screen, Roller. S. E. McPherson. No. 1,143,718; June 22; Gaz. vol. 215; p. 1021.
- Window-screen, Rolling. W. P. Underhill. No. 1,151,424; Aug. 24; Gaz. vol. 217; p. 1255.
- Window-sill seat. H. H. Paul. No. 1,151,818; Aug. 31; Gaz. vol. 217; p. 1439.
- Window-stay. D. C. Briggs and C. W. Davock. No. 1,142,140; June 8; Gaz. vol. 215; p. 407.
- Window structure. D. J. Murnane. No. 1,159,071; Nov. 2; Gaz. vol. 220; p. 228.
- Window supporter, Reversible-. E. Holsinger. No. 1,132,520; Mar. 16; Gaz. vol. 212; p. 1013.
- Window-trough. C. M. Frary. No. 1,154,182; Sept. 21; Gaz. vol. 218; p. 712.
- Window, Ventilating safety-. A. Mujo. No. 1,152,900; Sept. 7; Gaz. vol. 218; p. 191.
- Window-ventilator. M. G. Bunnell. No. 1,147,074; July 20; Gaz. vol. 216; p. 774.
- Window-ventilator. H. W. Drew. No. 1,128,235; Feb. 9; Gaz. vol. 211; p. 591.
- Window-ventilator. H. W. Drew. No. 1,141,532; June 1; Gaz. vol. 215; p. 159.
- Window-ventilator. H. W. Drew. No. 1,145,882; July 13; Gaz. vol. 216; p. 337.
- Window-ventilator. G. C. Field and A. H. Albertson. No. 1,125,015; Jan. 12; Gaz. vol. 210; p. 682.
- Window-ventilator. W. H. Gardner. No. 1,123,726; Jan. 5; Gaz. vol. 210; p. 180.
- Window-ventilator. H. Higgin. No. 1,137,139; Apr. 27; Gaz. vol. 213; p. 1204.
- Window-ventilator. A. V. Keyrouse. No. 1,162,241; Nov. 30; Gaz. vol. 220; p. 1526.
- Window-ventilator. T. H. Leary. No. 1,136,541; Apr. 20; Gaz. vol. 213; p. 953.
- Window-ventilator. M. McKinzie. No. 1,158,252; Oct. 26; Gaz. vol. 219; p. 1141.
- Window-washer. J. A. Whitlock. No. 1,133,419; Mar. 30; Gaz. vol. 212; p. 1422.
- Window-wicket-operating mechanism. H. B. Gabbe. No. 1,130,504; Mar. 2; Gaz. vol. 212; p. 233.
- Window-wiper. G. W. Ousley. No. 1,165,704; Dec. 28; Gaz. vol. 221; p. 1163.
- Windows, Alarm device on. C. W. Ervin. No. 1,147,795; July 27; Gaz. vol. 216; p. 1053.
- Windows, Antirattler for. J. Saul. No. 1,155,446; Oct. 5; Gaz. vol. 219; p. 42.
- Windows, &c., Apparatus for preventing and removing deposit of moisture on. C. Holz. No. 1,158,218; Oct. 26; Gaz. vol. 219; p. 1129.
- Windows, Glass-holding device for metallic. R. S. Drummond. No. 1,140,887; May 25; Gaz. vol. 214; p. 1221.
- Windows, Mechanism for opening and closing sliding. G. B. Münch. No. 1,137,076; Apr. 27; Gaz. vol. 213; p. 1181.
- Windows, Metal strip for. W. Steger. No. 1,160,209; Nov. 16; Gaz. vol. 220; p. 718.
- Windows, Roller-mounting for. W. A. Semerak. No. 1,162,407; Nov. 30; Gaz. vol. 220; p. 1582.
- Windows, Spacing-clip for double-pane. A. L. Baldwin. No. 1,129,839; Mar. 2; Gaz. vol. 212; p. 3.
- Windows, Storm and insect shield for. S. T. Brock. No. 1,125,805; Jan. 19; Gaz. vol. 210; p. 1000.
- Windrower. L. Franzmeier. No. 1,133,550; Mar. 30; Gaz. vol. 212; p. 1469.
- Windrower-rod connector. F. and F. A. Blocki. No. 1,125,260; Jan. 19; Gaz. vol. 210; p. 806.
- Wine, Making a fermented but non-alcoholic. M. E. Dönitz. No. 1,152,154; Aug. 31; Gaz. vol. 217; p. 1555.
- Wines, spirits, or other potable liquors, Artificially maturing or aging. V. H. A. Helbronner and M. von Recklinghausen. No. 1,130,400; Mar. 2; Gaz. vol. 212; p. 194.
- Winker-strap attachment. J. T. Palmatary. No. 1,130,836; Mar. 9; Gaz. vol. 212; p. 380.
- Wire and producing the same, Alloy-surfaced. W. M. Page. No. 1,156,170; Oct. 12; Gaz. vol. 219; p. 319.
- Wire and terminal therefor, Insulated. A. M. Wentworth. No. 1,157,916; Oct. 26; Gaz. vol. 219; p. 1024.
- Wire around wooden pipes, Device for stretching. G. W. Sutherland. No. 1,154,275; Sept. 21; Gaz. vol. 218; p. 744.
- Wire-bar ends, Protecting-tip for drop-. T. F. Brazell. No. 1,144,686; June 29; Gaz. vol. 215; p. 1385.
- Wire belts, Apparatus for testing and truing woven-. H. Lindsay. No. 1,161,703; Nov. 23; Gaz. vol. 220; p. 1291.
- Wire-bending machine. M. Sleeth. No. 1,165,293; Dec. 21; Gaz. vol. 221; p. 980.
- Wire-bound article. E. I. Braddock. No. 1,156,131; Oct. 12; Gaz. vol. 219; p. 307.
- Wire-bound box. L. C. and R. Steele. No. 1,123,416; Jan. 5; Gaz. vol. 210; p. 75.

Alphabetical list of inventions—Continued.

- Wire-bound box. L. C. and R. Steele. No. 1,123,417; Jan. 5; Gaz. vol. 210; p. 75.
- Wire-clamp. W. H. Kempton. No. 1,147,870; July 27; Gaz. vol. 216; p. 1079.
- Wire clamp or stretcher. J. M. Klein and P. J. Spies. No. 1,146,801; July 20; Gaz. vol. 216; p. 679.
- Wire-clamping device. J. Cuthbert. No. 1,166,114; Dec. 28; Gaz. vol. 221; p. 1305.
- Wire-clamping device. W. L. Hall. No. 1,152,943; Sept. 7; Gaz. vol. 218; p. 207.
- Wire-cloth rack. W. G. Newman. No. 1,147,115; July 20; Gaz. vol. 216; p. 789.
- Wire-cloth racks, Adjustable table for. W. G. Newman. No. 1,133,055; Mar. 23; Gaz. vol. 212; p. 1258.
- Wire-coiling mechanism. E. James. No. 1,139,872; May 18; Gaz. vol. 214; p. 830.
- Wire-connector. R. H. Miller. No. 1,165,273; Dec. 21; Gaz. vol. 221; p. 973.
- Wire, cord, elastic, &c., Machine for covering. E. W. Cooper. No. 1,165,495; Dec. 28; Gaz. vol. 221; p. 1089.
- Wire-cutter. G. D. James. No. 1,147,631; July 20; Gaz. vol. 216; p. 970.
- Wire-cutter attachment. A. W. Slee. No. 1,164,765; Dec. 21; Gaz. vol. 221; p. 795.
- Wire, Cutting-. B. Schlub. No. 1,159,871; Nov. 9; Gaz. vol. 220; p. 547.
- Wire cutting and counting device. E. L. Kahler. No. 1,162,929; Dec. 7; Gaz. vol. 221; p. 67.
- Wire-cutting machine. M. O. Anthony. No. 1,163,121; Dec. 7; Gaz. vol. 221; p. 134.
- Wire delivered by finishing-rolls, Plant for cooling, removing scale from, chalking, and drying. H. Schliggerman. No. 1,152,848; Sept. 7; Gaz. vol. 218; p. 172.
- Wire-drawing die. L. C. Belz and A. Nacke. No. 1,163,062; Dec. 7; Gaz. vol. 221; p. 114.
- Wire-drawing machine. J. Mostečník. No. 1,160,189; Nov. 16; Gaz. vol. 220; p. 712.
- Wire ends, Shaping. F. G. Breul. No. 1,164,254; Dec. 14; Gaz. vol. 221; p. 575.
- Wire fabric. H. Richardson. No. 1,160,655; Nov. 16; Gaz. vol. 220; p. 877.
- Wire fabric. H. Richardson. No. 1,160,656; Nov. 16; Gaz. vol. 220; p. 877.
- Wire fabric. J. Schwartzman. No. 1,141,418; June 1; Gaz. vol. 215; p. 119.
- Wire fabric. J. Schwartzman. No. 1,145,517; July 6; Gaz. vol. 216; p. 189.
- Wire fabric. F. A. Zielke. No. 1,127,715; Feb. 9; Gaz. vol. 211; p. 408.
- Wire fabric for ornamental wear. F. P. and H. W. Collingwood. No. 1,140,445; May 25; Gaz. vol. 214; p. 1066.
- Wire-fabric-machine reel. C. E. Safford. No. 1,139,077; May 11; Gaz. vol. 214; p. 516.
- Wire fabric, Making. H. E. White. No. 1,137,441; Apr. 27; Gaz. vol. 213; p. 1314.
- Wire fastener and stretcher. F. S. Dunham. No. 1,142,555; June 8; Gaz. vol. 215; p. 553.
- Wire-fastening device. H. E. White. No. 1,136,746; Apr. 20; Gaz. vol. 213; p. 1027.
- Wire-feeding mechanism. C. C. Hammond. No. 1,149,825; Aug. 10; Gaz. vol. 217; p. 583.
- Wire finding and coupling device. I. J. H. Toffey. No. 1,130,775; Mar. 9; Gaz. vol. 212; p. 360.
- Wire-finishing machine. A. Lilliquist. No. 1,156,299; Oct. 12; Gaz. vol. 219; p. 362.
- Wire gate. W. H. Sommer. No. 1,157,054; Oct. 19; Gaz. vol. 219; p. 659.
- Wire-gate and detector, Automatic. J. Herman. No. 1,141,707; June 1; Gaz. vol. 215; p. 220.
- Wire-gauze, Means for giving a finished surface to. F. Stonier. No. 1,138,257; May 4; Gaz. vol. 214; p. 186.
- Wire-grip. W. O. Lane. No. 1,124,034; Jan. 5; Gaz. vol. 210; p. 284.
- Wire grooving and milling machine. E. E. Johnson. No. 1,141,713; June 1; Gaz. vol. 215; p. 222.
- Wire handle and cover-fastener for grape-baskets, &c. F. B. Townsend. No. 1,125,212; Jan. 19; Gaz. vol. 210; p. 787.
- Wire-handling tool. R. H. Norton. No. 1,141,257; June 1; Gaz. vol. 215; p. 59.
- Wire, hoops, sheets, and the like, Galvanizing. H. H. Field, M. Howarth, and E. A. Atkins. No. 1,133,628; Mar. 30; Gaz. vol. 212; p. 1497.
- Wire lengths or other strips, Mechanism for producing and applying. W. L. Wright. No. 1,140,228; May 18; Gaz. vol. 214; p. 954.
- Wire-line wrench and making same. W. T. Herrick. No. 1,157,938; Oct. 26; Gaz. vol. 219; p. 1031.
- Wire link fabric. W. B. Anderson. No. 1,135,979; Apr. 20; Gaz. vol. 213; p. 755.
- Wire, Low-expansion. B. E. Eldred. No. 1,140,136; May 18; Gaz. vol. 214; p. 925.
- Wire-making machine. A. Shedlock. No. 1,136,373; Apr. 20; Gaz. vol. 213; p. 894.
- Wire, Means for forming lead. A. T. Eyton. No. 1,137,199; Apr. 27; Gaz. vol. 213; p. 1225.
- Wire-placer. W. E. Taylor. No. 1,136,183; Apr. 20; Gaz. vol. 213; p. 825.
- Wire-reducing machine. F. H. Sleeper. No. 1,137,920; May 4; Gaz. vol. 214; p. 69.
- Wire, Reducing the diameter of. V. S. Whyland. No. 1,162,960; Dec. 7; Gaz. vol. 221; p. 79.
- Wire-reel. M. W. Watkins. No. 1,156,569; Oct. 12; Gaz. vol. 219; p. 459.
- Wire reeling and unreeling device. J. H. Sailer. No. 1,126,090; Jan. 26; Gaz. vol. 210; p. 1135.
- Wire reeling and unreeling machine. C. H. Dooley. No. 1,138,940; May 11; Gaz. vol. 214; p. 466.
- Wire-reeling apparatus. A. K. Hageness. No. 1,144,840; June 29; Gaz. vol. 215; p. 1439.
- Wire rope. T. C. Batchelor. No. 1,137,690; Apr. 27; Gaz. vol. 213; p. 1396.
- Wire-scraper-reeling machines, Ejecting mechanism for. G. W. Staley. No. 1,124,070; Jan. 5; Gaz. vol. 210; p. 296.
- Wire screen. C. W. Warnhoff. No. 1,157,349; Oct. 19; Gaz. vol. 219; p. 763.
- Wire, Solder-cored. V. Feeser. No. 1,148,223; July 27; Gaz. vol. 216; p. 1206.
- Wire-splicer. E. S. Acheson. No. 1,158,018; Oct. 26; Gaz. vol. 219; p. 1059.
- Wire-splicer. J. Mumford. No. 1,129,711; Feb. 23; Gaz. vol. 211; p. 1188.
- Wire-splicing tool. J. W. Barton. No. 1,136,760; Apr. 20; Gaz. vol. 213; p. 1032.
- Wire-straightener, Rotary. H. F. Hubbard. No. 1,123,297; Jan. 5; Gaz. vol. 210; p. 33.
- Wire straightening and cutting-off machine. E. F. Shuster. No. 1,126,892; Feb. 2; Gaz. vol. 211; p. 80.
- Wire straightening and planishing machine. E. R. Burgher. No. 1,128,223; Feb. 9; Gaz. vol. 211; p. 586.
- Wire-straightening machine. C. E. Bradshaw and W. B. Runk. No. 1,145,345; July 6; Gaz. vol. 216; p. 128.
- Wire-strainer. D. Donald. No. 1,151,670; Aug. 31; Gaz. vol. 217; p. 1386.
- Wire-stretcher. T. J. Blossick. No. 1,130,704; Mar. 9; Gaz. vol. 212; p. 336.
- Wire-stretcher. W. M. Dalton. No. 1,133,367; Mar. 30; Gaz. vol. 212; p. 1404.
- Wire-stretcher. A. B. Dill. No. 1,134,729; Apr. 6; Gaz. vol. 213; p. 236.
- Wire-stretcher. C. N. Edwards. No. 1,160,056; Nov. 9; Gaz. vol. 220; p. 610.
- Wire-stretcher. T. V. Fleming. No. 1,162,999; Dec. 7; Gaz. vol. 221; p. 93.
- Wire-stretcher. H. G. Furman, Jr. No. 1,142,952; June 15; Gaz. vol. 215; p. 731.
- Wire-stretcher. A. C. Hanson. No. 1,156,597; Oct. 12; Gaz. vol. 219; p. 467.
- Wire-stretcher. F. Hays. No. 1,131,061; Mar. 9; Gaz. vol. 212; p. 458.
- Wire-stretcher. M. Jarvis. No. 1,165,604; Dec. 28; Gaz. vol. 221; p. 1127.
- Wire-stretcher. B. L. Kidd. No. 1,143,911; June 22; Gaz. vol. 215; p. 1087.
- Wire-stretcher. J. E. Lockett. No. 1,131,937; Mar. 16; Gaz. vol. 212; p. 799.
- Wire-stretcher. E. J. Lowe. No. 1,131,846; Mar. 16; Gaz. vol. 212; p. 768.
- Wire-stretcher. C. E. Martin. No. 1,147,525; July 20; Gaz. vol. 216; p. 932.
- Wire-stretcher. J. L. McFadden. No. 1,153,093; Sept. 7; Gaz. vol. 218; p. 258.
- Wire-stretcher. T. B. McMillan. No. 1,133,487; Mar. 30; Gaz. vol. 212; p. 1445.
- Wire-stretcher. T. J. Meiser. No. 1,134,055; Mar. 30; Gaz. vol. 212; p. 1644.
- Wire-stretcher. E. T. Morris. No. 1,142,352; June 8; Gaz. vol. 215; p. 481.
- Wire-stretcher. H. P. Owens. No. 1,144,310; June 22; Gaz. vol. 215; p. 1229.
- Wire-stretcher. W. H. Payne. No. 1,132,874; Mar. 23; Gaz. vol. 212; p. 1191.
- Wire-stretcher. A. Rasmussen. No. 1,124,522; Jan. 12; Gaz. vol. 210; p. 505.
- Wire-stretcher. M. E. Sewalt. No. 1,156,322; Oct. 12; Gaz. vol. 219; p. 369.
- Wire-stretcher. T. M. Snelling. No. 1,147,655; July 20; Gaz. vol. 216; p. 979.
- Wire-stretcher. R. C. Sturdevant. No. 1,154,456; Sept. 21; Gaz. vol. 218; p. 807.
- Wire-stretcher. O. A. Tiedtke. No. 1,164,146; Dec. 14; Gaz. vol. 221; p. 540.
- Wire-stretcher. N. and F. Whitesel. No. 1,152,583; Sept. 7; Gaz. vol. 218; p. 76.
- Wire-stretcher. W. B. Wilson. No. 1,144,677; June 29; Gaz. vol. 215; p. 1381.
- Wire-stretcher and buggy-jack. E. Young. No. 1,151,323; Aug. 24; Gaz. vol. 217; p. 1222.
- Wire-stretcher clamp. J. W. Urie. No. 1,132,133; Mar. 16; Gaz. vol. 212; p. 871.
- Wire-stretchers, Intermittent-grip device for. O. Koonce. No. 1,132,724; Mar. 23; Gaz. vol. 212; p. 1135.
- Wire-stretching appliance. W. J. Kingcade. No. 1,157,551; Oct. 19; Gaz. vol. 219; p. 833.
- Wire-stretching machine. E. Preator. No. 1,142,908; June 15; Gaz. vol. 215; p. 714.
- Wire stretching or pulling device. L. E. Carson. No. 1,140,115; May 18; Gaz. vol. 214; p. 917.
- Wire-stripper. J. H. Courtney. No. 1,131,473; Mar. 9; Gaz. vol. 212; p. 600.

Alphabetical list of inventions—Continued.

- Wire-stripping device, Insulated-. S. G. Wood. No. 1,151,319; Aug. 24; Gaz. vol. 217; p. 1220.
- Wire-stripping tool. H. A. Hornor. No. 1,165,176; Dec. 21; Gaz. vol. 221; p. 940.
- Wire structures, Machine for making. J. F. Gail. No. 1,152,889; Sept. 7; Gaz. vol. 218; p. 187.
- Wire-support. A. F. Fest. No. 1,155,716; Oct. 5; Gaz. vol. 219; p. 136.
- Wire-supporting device. R. H. Uhrbrock. No. 1,164,558; Dec. 14; Gaz. vol. 221; p. 683.
- Wire-suspension clamp. H. M. Somerville. No. 1,149,096; Aug. 3; Gaz. vol. 217; p. 215.
- Wiring system. E. A. Walz, Jr. No. 1,154,462; Sept. 21; Gaz. vol. 218; p. 809.
- Wire tie. A. M. Bates. No. 1,158,957; Nov. 2; Gaz. vol. 220; p. 191.
- Wire-tie-forming machine. A. M. Bates. No. 1,162,675; Nov. 30; Gaz. vol. 220; p. 1670.
- Wire-tie twister. F. W. Fegely. No. 1,136,220; Apr. 20; Gaz. vol. 213; p. 839.
- Wire-tightener. A. P. Johnson. No. 1,157,110; Oct. 19; Gaz. vol. 219; p. 678.
- Wire-tightener. W. N. Rose. No. 1,151,399; Aug. 24; Gaz. vol. 217; p. 1246.
- Wire-twisting device. J. W. Watson. No. 1,125,417; Jan. 19; Gaz. vol. 210; p. 862.
- Wire-twisting machine. G. B. Smith. No. 1,165,550; Dec. 28; Gaz. vol. 221; p. 1107.
- Wire-tying tool. J. S. McChesney. No. 1,124,633; Jan. 12; Gaz. vol. 210; p. 547.
- Wire wheel. R. W. Ashley and F. Oberkirch. No. 1,135,424; Apr. 13; Gaz. vol. 213; p. 518.
- Wire-winder. W. F. Schulz. No. 1,132,622; Mar. 23; Gaz. vol. 212; p. 1098.
- Wire-winding machine. C. A. Hanson. No. 1,142,035; June 8; Gaz. vol. 215; p. 371.
- Wire-working device. M. McCarter. No. 1,144,217; June 22; Gaz. vol. 215; p. 1197.
- Wire-working machine. J. F. Gail. No. 1,126,746; Feb. 2; Gaz. vol. 211; p. 29.
- Wire-working machine. F. R. Holdred. No. 1,155,729; Oct. 5; Gaz. vol. 219; p. 141.
- Wire-wrapping device. M. McCarter and R. Venis. No. 1,160,182; Nov. 16; Gaz. vol. 220; p. 709.
- Wires, Device for forming loops in. B. W. Whitworth. No. 1,151,639; Aug. 31; Gaz. vol. 217; p. 1376.
- Wires, Manufacture of fine refractory-metal. F. Blau. No. 1,157,288; Oct. 19; Gaz. vol. 219; p. 742.
- Wires, Seam for Fourdrinier. J. D. Watson. No. 1,143,742; June 22; Gaz. vol. 215; p. 1029.
- Wires, Tool for securing ends of. B. W. Whitworth. No. 1,151,640; Aug. 31; Gaz. vol. 217; p. 1377.
- Wiring system. J. A. Cole. No. 1,131,469; Mar. 9; Gaz. vol. 212; p. 599.
- Wireless communication. C. V. Logwood. No. 1,161,142; Nov. 23; Gaz. vol. 220; p. 1093.
- Wireless receiving apparatus. J. S. Leach. No. 1,136,683; Apr. 20; Gaz. vol. 213; p. 1004.
- Wireless receiving improvement. G. W. Pickard. No. 1,156,625; Oct. 12; Gaz. vol. 219; p. 478.
- Wireless systems, Rectifying-detector for. E. T. Turney. No. 1,144,399; June 29; Gaz. vol. 215; p. 1288.
- Wireless, Valve-detector for. G. W. Pickard. No. 1,128,817; Feb. 16; Gaz. vol. 211; p. 842.
- Wood and producing the same, Impregnated. R. A. Marr. (Reissue). No. 13,952; July 27; Gaz. vol. 216; p. 1301.
- Wood and producing the same, Waterproofed. D. H. Bibb. No. 1,165,355; Dec. 21; Gaz. vol. 221; p. 1001.
- Wood and product thereof, Preserving. A. P. Goodell. No. 1,134,044; Mar. 30; Gaz. vol. 212; p. 1641.
- Wood-barking apparatus. A. A. Alfson. No. 1,148,136; July 27; Gaz. vol. 216; p. 1176.
- Wood-clamp. W. G. Strozler. No. 1,141,365; June 1; Gaz. vol. 215; p. 99.
- Wood, Coloring. L. Doyen. No. 1,135,167; Apr. 13; Gaz. vol. 213; p. 430.
- Wood fiber, Preparing. J. H. Thickens. No. 1,138,907; May 11; Gaz. vol. 214; p. 455.
- Wood filler and stain and making same. N. A. Harris. No. 1,126,993; Feb. 2; Gaz. vol. 211; p. 116.
- Wood, Imitation. D. M. Sutherland, Jr. No. 1,153,970; Sept. 21; Gaz. vol. 218; p. 640.
- Wood, Increasing the resonance capacity of. R. Markstein. No. 1,159,402; Nov. 9; Gaz. vol. 220; p. 378.
- Wood-polishing machine. W. J. Sumner. No. 1,150,155; Aug. 17; Gaz. vol. 217; p. 762.
- Wood-preserved. J. A. De Cew. No. 1,140,127; May 18; Gaz. vol. 214; p. 922.
- Wood, Preserving. H. S. Loud. No. 1,151,204; Aug. 24; Gaz. vol. 217; p. 1183.
- Wood, Preserving. R. I. Smith. No. 1,129,430; Feb. 23; Gaz. vol. 211; p. 1093.
- Wood-preserving compound. J. W. Carr. No. 1,150,499; Aug. 17; Gaz. vol. 217; p. 882.
- Wood-pulp, Grinder for the production of. A. Curtis. No. 1,164,074; Dec. 14; Gaz. vol. 221; p. 575.
- Wood-pulp machinery. H. F. Storrer. No. 1,164,426; Dec. 14; Gaz. vol. 221; p. 636.
- Wood-splitting machine. W. Kent. No. 1,150,038; Aug. 17; Gaz. vol. 217; p. 719.
- Wood to pulp, Process and apparatus for reducing. E. M. Hall. No. 1,132,258; Mar. 16; Gaz. vol. 212; p. 917.
- Wood, Treating. W. W. Norman. No. 1,142,610; June 8; Gaz. vol. 215; p. 571.
- Wood treating and distilling apparatus. B. Loomis. No. 1,148,104; July 27; Gaz. vol. 216; p. 1164.
- Wood-treating apparatus. W. W. Norman. No. 1,142,611; June 8; Gaz. vol. 215; p. 572.
- Wood-trimmer. A. S. Billings. No. 1,137,453; Apr. 27; Gaz. vol. 213; p. 1318.
- Wood-trimmer and the like. J. Hollis. No. 1,144,844; June 29; Gaz. vol. 215; p. 1441.
- Woods, Apparatus for the treatment of red gum and other like. T. H. Sampson. No. 1,131,427; Mar. 9; Gaz. vol. 212; p. 584.
- Wooden articles while being shaped, Means for holding. H. B. Hewitt. No. 1,148,899; Aug. 3; Gaz. vol. 217; p. 147.
- Woodwork, Producing material for ornamental. D. Redmon. No. 1,154,806; Sept. 28; Gaz. vol. 218; p. 955.
- Woodwork, Veneered and reinforced. W. B. Cuppett. No. 1,133,106; Mar. 23; Gaz. vol. 212; p. 1275.
- Woodworker's gage and measure. P. B. Leathers. No. 1,142,717; June 8; Gaz. vol. 215; p. 606.
- Woodworking-machine. J. C. Dunton. No. 1,159,909; Nov. 9; Gaz. vol. 220; p. 560.
- Woodworking-machine. J. W. Fosterling. No. 1,136,594; Apr. 20; Gaz. vol. 213; p. 972.
- Woodworking-machine. T. Lund. No. 1,131,719; Mar. 16; Gaz. vol. 212; p. 719.
- Woodworking-machine guard. T. W. Doolittle. No. 1,154,911; Sept. 28; Gaz. vol. 218; p. 990.
- Woodworking-machine guard. L. J. Halverstadt. No. 1,134,738; Apr. 6; Gaz. vol. 213; p. 240.
- Woodworking-machine guard. C. H. Wacholz. No. 1,160,219; Nov. 16; Gaz. vol. 220; p. 721.
- Woodworking-machinery. W. F. McDowell. No. 1,163,098; Dec. 7; Gaz. vol. 221; p. 126.
- Woodworking-machinery. P. A. Solem. No. 1,135,411; Apr. 13; Gaz. vol. 213; p. 514.
- Woodworking-machinery guard. O. H. Courson. No. 1,154,098; Sept. 21; Gaz. vol. 218; p. 684.
- Woodworking-tool. C. L. Oakley. No. 1,138,777; May 11; Gaz. vol. 214; p. 408.
- Wool-combers, Stationary non-brush device for. F. B. McMahon. No. 1,156,912; Oct. 19; Gaz. vol. 219; p. 608.
- Wool-delivering device. E. P. O'Brien. No. 1,159,259; Nov. 2; Gaz. vol. 220; p. 296.
- Wool-drying device. M. J. McHale. No. 1,134,053; Mar. 30; Gaz. vol. 212; p. 1643.
- Wool-washing machines, Rake-operating device for. F. W. Swain. No. 1,164,888; Dec. 21; Gaz. vol. 221; p. 838.
- Woolen goods, Treatment of. A. E. Garrett. No. 1,147,011; July 20; Gaz. vol. 216; p. 753.
- Woollike effects on cotton fabrics, Producing. G. Heberlein. No. 1,141,872; June 1; Gaz. vol. 215; p. 273.
- Work-bench. A. D. Converse. No. 1,160,380; Nov. 16; Gaz. vol. 220; p. 777.
- Work-bench. H. H. Eaton. No. 1,151,576; Aug. 31; Gaz. vol. 217; p. 1354.
- Work-bench. J. Mosiman. No. 1,149,671; Aug. 10; Gaz. vol. 217; p. 528.
- Work-bench attachment. L. H. Brimhall. No. 1,140,243; May 18; Gaz. vol. 214; p. 960.
- Work-carrier. R. E. Jean. No. 1,129,296; Feb. 23; Gaz. vol. 211; p. 1046.
- Work-feeding mechanism. H. A. Griffiths. No. 1,164,503; Dec. 14; Gaz. vol. 221; p. 664.
- Work-holder. D. E. Allen and D. M. Forbess. No. 1,147,357; July 20; Gaz. vol. 216; p. 872.
- Work-holder. F. B. Barber. No. 1,125,253; Jan. 19; Gaz. vol. 210; p. 803.
- Work-holder. E. R. Darling. No. 1,155,706; Oct. 5; Gaz. vol. 219; p. 133.
- Work-holder. O. B. Gross. No. 1,163,145; Dec. 7; Gaz. vol. 221; p. 143.
- Work-holder. M. Guett. No. 1,164,505; Dec. 14; Gaz. vol. 221; p. 665.
- Work-holder. L. Tunich. No. 1,147,830; July 27; Gaz. vol. 216; p. 1065.
- Work-holder for machine-tools. M. Smolensky. No. 1,154,450; Sept. 21; Gaz. vol. 218; p. 805.
- Work-holder, Vacuum. G. Staunton. No. 1,130,679; Mar. 2; Gaz. vol. 212; p. 293.
- Work-holding clamp. C. Schultze. No. 1,161,983; Nov. 30; Gaz. vol. 220; p. 1435.
- Work-holding jaw. J. M. Hargrave. No. 1,161,210; Nov. 23; Gaz. vol. 220; p. 1119.
- Work-register, Automatic. G. R. Murray. No. 1,132,110; Mar. 16; Gaz. vol. 212; p. 861.
- Work-securing means. W. L. Schellenbach. No. 1,133,064; Mar. 23; Gaz. vol. 212; p. 1261.
- Work-stand. H. P. Martin. No. 1,126,544; Jan. 26; Gaz. vol. 210; p. 1299.
- Work-stand, Portable. J. W. Barr. No. 1,145,663; July 6; Gaz. vol. 216; p. 241.
- Work-support. W. C. Baxter. No. 1,123,220; Jan. 5; Gaz. vol. 210; p. 6.
- Work-support. I. C. Buckminster. No. 1,133,533; Mar. 30; Gaz. vol. 212; p. 1463.
- Work-support. E. A. Cridland. No. 1,130,801; Mar. 9; Gaz. vol. 212; p. 369.

Alphabetical list of inventions—Continued.

- Work-support. J. B. Hadaway. No. 1,160,163; Nov. 16; Gaz. vol. 220; p. 703.
- Work-support. W. V. Robertson. No. 1,131,736; Mar. 16; Gaz. vol. 212; p. 725.
- Work-support. T. H. Seely. No. 1,161,894; Nov. 30; Gaz. vol. 220; p. 1404.
- Work-support. E. A. Steggins. No. 1,132,630; Mar. 23; Gaz. vol. 212; p. 1101.
- Work-support. E. E. Winkley. No. 1,138,710; May 11; Gaz. vol. 214; p. 384.
- Work-support and cooperating tool mechanism, Combined. C. B. and L. H. Williams. No. 1,142,923; June 15; Gaz. vol. 215; p. 719.
- Work-support, Machine-shop. C. A. Offiter. No. 1,154,333; Sept. 21; Gaz. vol. 218; p. 765.
- Work-supporting plate. J. P. Weis. No. 1,145,175; July 6; Gaz. vol. 216; p. 70.
- Work-table for a machine for driving metallic fasteners. H. R. Bliss and L. Johnston. No. 1,131,321; Mar. 9; Gaz. vol. 212; p. 548.
- Working-space, Apparatus for determining. J. B. Replogle. No. 1,151,716; Aug. 31; Gaz. vol. 217; p. 1402.
- Worm-truing machine. W. E. Bock. No. 1,159,739; Nov. 9; Gaz. vol. 220; p. 498.
- Wort from mashies, Extracting. J. Schaefer. No. 1,141,491; June 1; Gaz. vol. 215; p. 145.
- Woven bar-screen. W. S. Potter. No. 1,139,468; May 11; Gaz. vol. 214; p. 652.
- Woven fabric. W. G. Stewart. No. 1,141,665; June 1; Gaz. vol. 215; p. 205.
- Woven fabric. J. M. Whittemore. No. 1,130,868; Mar. 9; Gaz. vol. 212; p. 391.
- Woven fabric and weaving the same. C. G. Bates. No. 1,132,508; Mar. 16; Gaz. vol. 212; p. 1008.
- Woven fabric for belts. B. R. Benjamin. No. 1,157,755; Oct. 26; Gaz. vol. 219; p. 968.
- Woven fabric with widening, Tubular. V. H. Jennings. No. 1,129,037; Feb. 16; Gaz. vol. 211; p. 920.
- Woven screen. W. S. Potter. No. 1,139,469; May 11; Gaz. vol. 214; p. 652.
- Woven strap. F. R. Batchelder. No. 1,147,135; July 20; Gaz. vol. 216; p. 795.
- Woven tube and weaving the same. V. H. Jennings. No. 1,137,405; Apr. 27; Gaz. vol. 213; p. 1302.
- Wrapper. L. D. Morton. No. 1,148,115; July 27; Gaz. vol. 216; p. 1169.
- Wrapper. H. L. Page. No. 1,134,285; Apr. 6; Gaz. vol. 213; p. 74.
- Wrapper. G. H. Ralph. No. 1,132,212; Mar. 16; Gaz. vol. 212; p. 899.
- Wrapper. E. H. Roden. No. 1,148,928; Aug. 3; Gaz. vol. 217; p. 157.
- Wrapper, Bundle-. K. B. Tudor. No. 1,128,388; Feb. 16; Gaz. vol. 211; p. 692.
- Wrapper-cutter. S. S. Gierhart. No. 1,134,043; Mar. 30; Gaz. vol. 212; p. 1640.
- Wrapper for articles of merchandise. E. Hopkinson. No. 1,156,080; Oct. 12; Gaz. vol. 219; p. 289.
- Wrapper for newspapers, periodicals, &c. E. H. Roden. No. 1,148,929; Aug. 3; Gaz. vol. 217; p. 158.
- Wrapper, Merchandise-. G. Woddingham. No. 1,133,522; Mar. 30; Gaz. vol. 212; p. 1459.
- Wrapper or binder. W. H. Jacobs. No. 1,148,487; July 27; Gaz. vol. 216; p. 1298.
- Wrapping. F. M. Pierce. No. 1,153,704; Sept. 14; Gaz. vol. 218; p. 513.
- Wrapping and checking device for store-service. H. L. Walbridge. No. 1,149,548; Aug. 10; Gaz. vol. 217; p. 480.
- Wrapping and labeling machine. R. A. Jones. No. 1,162,611; Nov. 30; Gaz. vol. 220; p. 1650.
- Wrapping annuli, Machine for. P. E. Welton. No. 1,140,729; May 25; Gaz. vol. 214; p. 1163.
- Wrapping, binding, and tying packages, Machine for automatically. A. J. Coon. No. 1,132,164; Mar. 16; Gaz. vol. 212; p. 882.
- Wrapping, binding, and tying packages, Machine for automatically. A. J. Coon. No. 1,132,165; Mar. 16; Gaz. vol. 212; p. 882.
- Wrapping commercial coils of wire, Machine for. F. M. and W. B. Pierce. No. 1,158,405; Oct. 26; Gaz. vol. 219; p. 1196.
- Wrapping irregular articles, Machine for. J. W. Dearborn. No. 1,126,719; Feb. 2; Gaz. vol. 211; p. 18.
- Wrapping-machine. C. Chartrand. No. 1,163,320; Dec. 7; Gaz. vol. 221; p. 204.
- Wrapping-machine. W. C. Cutler. No. 1,133,621; Mar. 30; Gaz. vol. 212; p. 1495.
- Wrapping-machine. F. Giroud. No. 1,129,975; Mar. 2; Gaz. vol. 212; p. 47.
- Wrapping-machine. E. Haas and A. Heck. No. 1,159,934; Nov. 9; Gaz. vol. 220; p. 569.
- Wrapping-machine. D. T. and D. C. Igou. No. 1,147,402; July 20; Gaz. vol. 216; p. 890.
- Wrapping-machine. E. Jagenberg. No. 1,140,039; May 18; Gaz. vol. 214; p. 890.
- Wrapping-machine. T. G. McGirr. No. 1,158,522; Nov. 2; Gaz. vol. 220; p. 40.
- Wrapping-machine. W. B. and F. M. Pierce. No. 1,158,278; Oct. 26; Gaz. vol. 219; p. 1150.
- Wrapping-machine. F. M. and W. B. Pierce. No. 1,158,406; Oct. 26; Gaz. vol. 219; p. 1196.
- Wrapping-machine. M. O. and J. G. Rehfuß. No. 1,164,548; Dec. 14; Gaz. vol. 221; p. 679.
- Wrapping-machine. E. G. Staude. No. 1,130,938; Mar. 9; Gaz. vol. 212; p. 416.
- Wrapping-machine. J. Tomlinson. No. 1,135,077; Apr. 13; Gaz. vol. 213; p. 399.
- Wrapping-machine. L. H. Wilbur. No. 1,131,881; Mar. 16; Gaz. vol. 212; p. 779.
- Wrapping machine, Package-. J. W. Dearborn. No. 1,158,186; Oct. 26; Gaz. vol. 219; p. 1119.
- Wrapping-machines, Folding apparatus for. W. Rose. No. 1,157,585; Oct. 19; Gaz. vol. 219; p. 843.
- Wrapping or packaging machine. F. Giroud. No. 1,133,633; Mar. 30; Gaz. vol. 212; p. 1499.
- Wrapping sweets, Machine for. R. A. Berger. No. 1,144,022; June 22; Gaz. vol. 215; p. 1127.
- Wrapping-tube. D. Appel. No. 1,133,253; Mar. 30; Gaz. vol. 212; p. 1363.
- Wreath, vine, or spray of artificial leaves. A. G. Rossig and T. S. Crane. No. 1,153,076; Oct. 26; Gaz. vol. 219; p. 1080.
- Wreck-lifting device. A. R. Bissett. No. 1,129,376; Feb. 23; Gaz. vol. 211; p. 1073.
- Wrench: *See—*
- Adjustable wrench.
 - Alligator-wrench.
 - Expanding wrench.
 - Flange-union wrench.
 - Jar-cover wrench.
 - Monkey-wrench.
 - Nut-wrench.
 - Pipe-wrench.
 - Pipe and nut wrench.
 - Pipe and rod wrench.
 - Pneumatic wrench.
 - Quick-acting wrench.
 - Quick-action wrench.
 - Quick-release wrench.
 - Ratchet-wrench.
 - Ratchet sleeve-wrench.
 - Sliding-jaw wrench.
 - Socket-wrench.
 - Spanner-wrench.
 - Spring-jaw wrench.
 - Strap-wrench.
 - Tap-wrench.
 - Tire-wrench.
 - Veneer-press-screw wrench.
 - Wire-line wrench.
- Wrench. O. Agnew. No. 1,137,942; May 4; Gaz. vol. 214; p. 76.
- Wrench. A. A. Allan and E. T. Elliott. No. 1,126,335; Jan. 26; Gaz. vol. 210; p. 1222.
- Wrench. A. A. Allan and E. T. Elliott. No. 1,126,336; Jan. 26; Gaz. vol. 210; p. 1223.
- Wrench. F. R. Allen. No. 1,124,191; Jan. 5; Gaz. vol. 210; p. 339.
- Wrench. H. Allen. No. 1,132,146; Mar. 16; Gaz. vol. 212; p. 876.
- Wrench. J. and J. E. Anderson. No. 1,123,462; Jan. 5; Gaz. vol. 210; p. 91.
- Wrench. M. E. Anderson. No. 1,146,544; July 13; Gaz. vol. 216; p. 571.
- Wrench. B. V. Apfeld. No. 1,126,678; Feb. 2; Gaz. vol. 211; p. 3.
- Wrench. C. P. Baker. No. 1,136,755; Apr. 20; Gaz. vol. 213; p. 1030.
- Wrench. J. M. Barnett. No. 1,162,550; Nov. 30; Gaz. vol. 220; p. 1631.
- Wrench. G. R. and J. T. Bays. No. 1,160,128; Nov. 16; Gaz. vol. 220; p. 690.
- Wrench. G. L. Baxter. No. 1,157,834; Oct. 26; Gaz. vol. 219; p. 994.
- Wrench. J. A. Bean. No. 1,140,018; May 18; Gaz. vol. 214; p. 882.
- Wrench. J. D. Belanger. No. 1,150,094; Aug. 17; Gaz. vol. 217; p. 740.
- Wrench. W. L. Bessolo. No. 1,158,164; Oct. 26; Gaz. vol. 219; p. 1111.
- Wrench. L. J. Black. No. 1,157,362; Oct. 19; Gaz. vol. 219; p. 768.
- Wrench. W. Borer. No. 1,164,164; Dec. 14; Gaz. vol. 221; p. 545.
- Wrench. W. C. Bott. No. 1,166,320; Dec. 28; Gaz. vol. 221; p. 1382.
- Wrench. R. Y. Bovee. No. 1,133,530; Mar. 30; Gaz. vol. 212; p. 1462.
- Wrench. A. Brandetti. No. 1,161,287; Nov. 23; Gaz. vol. 220; p. 1147.
- Wrench. C. A. Brockman and T. D. Conroy. No. 1,143,746; June 22; Gaz. vol. 215; p. 1030.
- Wrench. J. F. Bronosky. No. 1,142,929; June 15; Gaz. vol. 215; p. 722.
- Wrench. J. H. Brown. No. 1,131,035; Mar. 9; Gaz. vol. 212; p. 449.
- Wrench. H. B. Bush. No. 1,160,494; Nov. 16; Gaz. vol. 220; p. 818.
- Wrench. T. J. Calhoon. No. 1,154,612; Sept. 28; Gaz. vol. 218; p. 889.
- Wrench. J. Csányi. No. 1,133,107; Mar. 23; Gaz. vol. 212; p. 1275.
- Wrench. A. Cudoszki. No. 1,138,847; May 11; Gaz. vol. 214; p. 435.
- Wrench. C. P. Culbertson. No. 1,151,088; Aug. 24; Gaz. vol. 217; p. 1142.
- Wrench. J. M. Denham. No. 1,166,334; Dec. 28; Gaz. vol. 221; p. 1387.
- Wrench. C. A. Dies. No. 1,155,136; Sept. 28; Gaz. vol. 218; p. 1069.
- Wrench. D. H. Donnelly. No. 1,164,175; Dec. 14; Gaz. vol. 221; p. 549.
- Wrench. C. Druck. No. 1,156,764; Oct. 12; Gaz. vol. 219; p. 526.

Alphabetical list of inventions—Continued.

- Wrench. G. A. Duplantis. No. 1,137,709; Apr. 27; Gaz. vol. 213; p. 1401.
- Wrench. H. C. Earle. No. 1,134,948; Apr. 6; Gaz. vol. 213; p. 308.
- Wrench. J. Ehrhard. No. 1,129,966; Mar. 2; Gaz. vol. 212; p. 45.
- Wrench. W. O. Eilert. No. 1,141,786; June 1; Gaz. vol. 215; p. 246.
- Wrench. C. W. Epperson. No. 1,136,323; Apr. 20; Gaz. vol. 213; p. 875.
- Wrench. J. V. Erixon. No. 1,161,382; Nov. 23; Gaz. vol. 220; p. 1181.
- Wrench. W. F. Estes. No. 1,153,050; Sept. 7; Gaz. vol. 218; p. 244.
- Wrench. L. E. Gaisser. No. 1,160,160; Nov. 16; Gaz. vol. 220; p. 702.
- Wrench. K. A. Gestgifoar. No. 1,143,115; June 15; Gaz. vol. 215; p. 787.
- Wrench. J. A. Giles. No. 1,153,303; Sept. 14; Gaz. vol. 218; p. 368.
- Wrench. J. W. Greb. No. 1,133,132; Mar. 23; Gaz. vol. 212; p. 1285.
- Wrench. G. M. Hagey. No. 1,132,843; Mar. 23; Gaz. vol. 212; p. 1180.
- Wrench. J. B. Haley. No. 1,136,599; Apr. 20; Gaz. vol. 213; p. 974.
- Wrench. T. Hand. No. 1,163,532; Dec. 7; Gaz. vol. 221; p. 278.
- Wrench. W. L. Hannsz. No. 1,156,902; Oct. 19; Gaz. vol. 219; p. 604.
- Wrench. J. G. Harter. No. 1,152,727; Sept. 7; Gaz. vol. 218; p. 127.
- Wrench. F. S. Hay. No. 1,135,896; Apr. 13; Gaz. vol. 213; p. 685.
- Wrench. A. B. Heimbach. No. 1,142,426; June 8; Gaz. vol. 215; p. 509.
- Wrench. H. R. Hill. No. 1,163,407; Dec. 7; Gaz. vol. 221; p. 235.
- Wrench. C. C. Hole. No. 1,128,983; Feb. 16; Gaz. vol. 211; p. 901.
- Wrench. E. Huffman. No. 1,131,136; Mar. 9; Gaz. vol. 212; p. 483.
- Wrench. F. Humphris. No. 1,157,540; Oct. 19; Gaz. vol. 219; p. 830.
- Wrench. S. A. Hunter. No. 1,164,815; Dec. 21; Gaz. vol. 221; p. 813.
- Wrench. J. W. Hurley. No. 1,123,880; Jan. 5; Gaz. vol. 210; p. 233.
- Wrench. J. C. Ingram. No. 1,149,060; Aug. 3; Gaz. vol. 217; p. 203.
- Wrench. W. A. Jackson. No. 1,135,806; Apr. 13; Gaz. vol. 213; p. 653.
- Wrench. W. Kaylor. No. 1,138,572; May 4; Gaz. vol. 214; p. 296.
- Wrench. R. M. Kelly. No. 1,145,067; July 6; Gaz. vol. 216; p. 34.
- Wrench. O. P. Kilpatrick. No. 1,138,957; May 11; Gaz. vol. 214; p. 472.
- Wrench. J. Kish. No. 1,141,715; June 1; Gaz. vol. 215; p. 223.
- Wrench. H. W. Klingensmith. No. 1,147,514; July 20; Gaz. vol. 216; p. 929.
- Wrench. C. W. Knipple. No. 1,144,907; June 29; Gaz. vol. 215; p. 1461.
- Wrench. F. Koons. No. 1,146,000; July 13; Gaz. vol. 216; p. 378.
- Wrench. J. Lerfald. No. 1,155,937; Oct. 5; Gaz. vol. 219; p. 212.
- Wrench. A. Liese. No. 1,127,786; Feb. 9; Gaz. vol. 211; p. 434.
- Wrench. F. Mancusso. No. 1,127,269; Feb. 2; Gaz. vol. 211; p. 213.
- Wrench. G. I. Marland. No. 1,154,192; Sept. 21; Gaz. vol. 218; p. 715.
- Wrench. J. H. Maxwell. No. 1,152,195; Aug. 31; Gaz. vol. 217; p. 1568.
- Wrench. J. W. McCurley. No. 1,160,737; Nov. 16; Gaz. vol. 220; p. 907.
- Wrench. A. McLean. No. 1,150,687; Aug. 17; Gaz. vol. 217; p. 948.
- Wrench. W. H. McNutt. No. 1,142,111; June 8; Gaz. vol. 215; p. 398.
- Wrench. H. L. Melheim. No. 1,153,399; Sept. 14; Gaz. vol. 218; p. 405.
- Wrench. J. E. Milcoff. No. 1,140,276; May 18; Gaz. vol. 214; p. 971.
- Wrench. E. S. Miller. No. 1,137,884; May 4; Gaz. vol. 214; p. 56.
- Wrench. L. W. Millsap, Jr. No. 1,155,948; Oct. 5; Gaz. vol. 219; p. 216.
- Wrench. B. E. Moore. No. 1,155,673; Oct. 5; Gaz. vol. 219; p. 121.
- Wrench. J. Morheuser. No. 1,132,483; Mar. 16; Gaz. vol. 212; p. 999.
- Wrench. F. Mosberg. No. 1,145,995; Dec. 28; Gaz. vol. 221; p. 1263.
- Wrench. C. B. Mouthrop and L. C. Jackson. No. 1,155,158; Sept. 28; Gaz. vol. 218; p. 1077.
- Wrench. D. W. Null. No. 1,152,832; Sept. 7; Gaz. vol. 218; p. 166.
- Wrench. W. G. Nymon. No. 1,158,713; Nov. 2; Gaz. vol. 220; p. 105.
- Wrench. W. S. Owen. No. 1,126,846; Feb. 2; Gaz. vol. 211; p. 65.
- Wrench. C. Pedersen. No. 1,154,544; Sept. 21; Gaz. vol. 218; p. 835.
- Wrench. K. Peterson. No. 1,133,236; Mar. 23; Gaz. vol. 212; p. 1319.
- Wrench. P. O. Petterson. No. 1,147,340; July 20; Gaz. vol. 216; p. 866.
- Wrench. J. C. Pugh. No. 1,147,119; July 20; Gaz. vol. 216; p. 790.
- Wrench. C. V. Reams and J. B. Hopkins. No. 1,165,207; Dec. 21; Gaz. vol. 221; p. 951.
- Wrench. E. E. Rhoads. No. 1,146,099; July 13; Gaz. vol. 216; p. 413.
- Wrench. H. E. Rose. No. 1,152,764; Sept. 7; Gaz. vol. 218; p. 140.
- Wrench. L. Roth. No. 1,128,904; Feb. 16; Gaz. vol. 211; p. 873.
- Wrench. F. E. Rush. No. 1,155,278; Sept. 28; Gaz. vol. 218; p. 1113.
- Wrench. J. J. Sands. No. 1,135,929; Apr. 13; Gaz. vol. 213; p. 694.
- Wrench. R. Scott. No. 1,133,509; Mar. 30; Gaz. vol. 212; p. 1454.
- Wrench. M. V. Selvert. No. 1,157,427; Oct. 19; Gaz. vol. 219; p. 793.
- Wrench. A. J. Seybert. No. 1,155,841; Oct. 5; Gaz. vol. 219; p. 181.
- Wrench. M. M. Shuster. No. 1,127,100; Feb. 2; Gaz. vol. 211; p. 154.
- Wrench. J. C. Skaliky. No. 1,131,567; Mar. 9; Gaz. vol. 212; p. 631.
- Wrench. J. Sokolov. No. 1,159,428; Nov. 9; Gaz. vol. 220; p. 387.
- Wrench. H. O. Spade. No. 1,147,761; July 27; Gaz. vol. 216; p. 1042.
- Wrench. C. Starks. No. 1,123,612; Jan. 5; Gaz. vol. 210; p. 142.
- Wrench. L. A. Swint. No. 1,153,271; Sept. 14; Gaz. vol. 218; p. 358.
- Wrench. G. S. Tappan. No. 1,135,334; Apr. 13; Gaz. vol. 213; p. 487.
- Wrench. C. Thom. No. 1,147,462; July 20; Gaz. vol. 216; p. 912.
- Wrench. W. S. Thomson. No. 1,123,423; Jan. 5; Gaz. vol. 210; p. 77.
- Wrench. L. Treboul. No. 1,163,185; Dec. 7; Gaz. vol. 221; p. 158.
- Wrench. A. D. Tuttle and J. G. Duncan. No. 1,162,529; Nov. 30; Gaz. vol. 220; p. 1625.
- Wrench. O. Urbach. No. 1,123,820; Jan. 5; Gaz. vol. 210; p. 212.
- Wrench. A. Vacarezza. No. 1,123,958; Jan. 5; Gaz. vol. 210; p. 258.
- Wrench. J. C. Wallgursky. No. 1,158,343; Oct. 26; Gaz. vol. 219; p. 1173.
- Wrench. A. L. Wallace. No. 1,130,863; Mar. 9; Gaz. vol. 212; p. 390.
- Wrench. J. W. Walters. No. 1,155,979; Oct. 5; Gaz. vol. 219; p. 226.
- Wrench. E. Washington and H. Anderson. No. 1,152,064; Aug. 31; Gaz. vol. 217; p. 1524.
- Wrench. J. I. Weisnek. No. 1,164,149; Dec. 14; Gaz. vol. 221; p. 540.
- Wrench. W. P. Whitaker. No. 1,159,631; Nov. 9; Gaz. vol. 220; p. 459.
- Wrench. C. A. Williams. No. 1,160,680; Nov. 16; Gaz. vol. 220; p. 887.
- Wrench. C. D. Wilson. No. 1,155,857; Oct. 5; Gaz. vol. 219; p. 186.
- Wrench. C. Wiseman, J. J. McKinney and J. A. Wiseman. No. 1,166,295; Dec. 28; Gaz. vol. 221; p. 1374.
- Wrench. A. H. Wolfe. No. 1,129,771; Feb. 23; Gaz. vol. 211; p. 1208.
- Wrench. W. F. Wulff. No. 1,128,214; Feb. 9; Gaz. vol. 211; p. 583.
- Wrench. H. Ysskin. No. 1,140,862; May 25; Gaz. vol. 214; p. 1212.
- Wrench attachment. J. C. Showalter. No. 1,131,430; Mar. 9; Gaz. vol. 212; p. 585.
- Wrench-bars, Machine for drilling. A. L. Moore. No. 1,125,868; Jan. 19; Gaz. vol. 210; p. 1019.
- Wrench-jaw. W. Shannon. No. 1,149,788; Aug. 10; Gaz. vol. 217; p. 568.
- Wrench-lock. F. E. and G. W. Smith. No. 1,148,410; July 27; Gaz. vol. 216; p. 1272.
- Wrenches, Clamp attachment for. E. Hakey. No. 1,157,383; Oct. 19; Gaz. vol. 219; p. 776.
- Wringer. See Clothes-wringer.
- Wringer. Mop-wringer.
- Wringer. W. F. Kurtz. No. 1,140,989; May 25; Gaz. vol. 214; p. 1257.
- Wringer. M. Faluska. No. 1,158,148; Oct. 26; Gaz. vol. 219; p. 1105.
- Wringer. W. Robertson. No. 1,131,087; Mar. 9; Gaz. vol. 212; p. 466.
- Wringer attachment. O. H. Watkins. No. 1,134,709; Apr. 6; Gaz. vol. 213; p. 229.
- Wringer for use in tanneries. C. R. Keys. No. 1,126,782; Feb. 2; Gaz. vol. 211; p. 42.
- Wringer-guard. E. L. Young and H. N. Miller. No. 1,136,387; Apr. 20; Gaz. vol. 213; p. 899.

- Wringer guard and feeding device. W. Pawlak. No. 1,161,245; Nov. 23; Gaz. vol. 220; p. 1132.
 Wringer hopper and guard. W. Pawlak. No. 1,161,244; Nov. 23; Gaz. vol. 220; p. 1132.
 Wringer-rolls, Quick release for. S. M. Marshall. No. 1,138,770; May 11; Gaz. vol. 214; p. 406.
 Wringer safety attachment. F. G. N. Kranich. No. 1,136,241; Apr. 20; Gaz. vol. 213; p. 846.
 Wringer-support. J. L. Kelleher. No. 1,161,390; Nov. 23; Gaz. vol. 220; p. 1184.
 Wringers. Bearing for clothes-. G. W. Moore. No. 1,143,299; June 15; Gaz. vol. 215; p. 853.
 Wringers. Delivery device for. E. D. Dumond. No. 1,136,218; Apr. 20; Gaz. vol. 213; p. 838.
 Wringers. Mechanical movement for laundry-. S. T. White. No. 1,132,815; Mar. 23; Gaz. vol. 212; p. 1170.
 Wringers. Safety attachment for clothes-. H. Loeffler. No. 1,139,546; May 18; Gaz. vol. 214; p. 714.
 Wrist-pin. J. H. Portman. No. 1,154,883; Sept. 28; Gaz. vol. 218; p. 980.
 Wrist-pin fastening. M. D. Franey. No. 1,139,962; May 18; Gaz. vol. 214; p. 861.
 Writer, Check-. E. Ocumpaugh. No. 1,162,388; Nov. 30; Gaz. vol. 220; p. 1575.
 Writer, Check-. L. M. Todd and C. G. Tiefel. No. 1,138,330; May 4; Gaz. vol. 214; p. 215.
 Writers. Attachment for check-. J. B. Dennis. No. 1,161,629; Nov. 23; Gaz. vol. 220; p. 1265.
 Writers. Attachment for check-. J. B. Dennis. No. 1,161,817; Nov. 23; Gaz. vol. 220; p. 1330.
 Writer's guide and pad. M. Boyde. No. 1,150,990; Aug. 24; Gaz. vol. 217; p. 1109.
 Writing device. C. E. Higbee. No. 1,143,393; June 15; Gaz. vol. 215; p. 887.
 Writing implement. H. Dennis. No. 1,148,661; Aug. 3; Gaz. vol. 217; p. 64.
 Writing implement. Trick. A. Meger. No. 1,153,809; Sept. 14; Gaz. vol. 218; p. 549.
 Writing instrument. H. G. Schroeder. No. 1,150,068; Aug. 17; Gaz. vol. 217; p. 730.
 Writing-machine. O. F. Bamberg and E. Weinhold. No. 1,138,832; May 11; Gaz. vol. 214; p. 429.
 Writing-machine. A. B. Edwards and F. K. Russell. No. 1,162,689; Nov. 30; Gaz. vol. 220; p. 1675.
 Writing-machine. E. B. Hess. No. 1,145,017; July 6; Gaz. vol. 216; p. 15.
 Writing machine. Automatic safety-check-. T. Bilyeu. No. 1,161,808; Nov. 23; Gaz. vol. 220; p. 1327.
 Writing machine. Check-. E. Ocumpaugh. No. 1,160,646; Nov. 16; Gaz. vol. 220; p. 874.
 Writing machine. Cipher-. E. H. Hebern. No. 1,141,035; May 25; Gaz. vol. 214; p. 1279.
 Writing machine. Multiple-. F. A. Johnson. No. 1,130,087; Mar. 2; Gaz. vol. 212; p. 85.
 Writing-machines. Striking mechanism for stenographic. A. B. Edwards and F. K. Russell. No. 1,162,688; Nov. 30; Gaz. vol. 220; p. 1674.
 Writing. Means for practising rapid. J. L. Cook. No. 1,162,849; Dec. 7; Gaz. vol. 221; p. 41.
 Writing-table. W. Konemann. No. 1,153,501; Sept. 14; Gaz. vol. 218; p. 442.
 X-ray apparatus. S. T. Hutton. No. 1,138,113; May 4; Gaz. vol. 214; p. 138.
 X-ray apparatus. H. F. Waite. No. 1,137,557; Apr. 27; Gaz. vol. 213; p. 1353.
 X-ray-control device. W. Meyer. No. 1,161,238; Nov. 23; Gaz. vol. 220; p. 1129.
 X-ray system. Polyphase. H. C. Snook. No. 1,131,870; Mar. 16; Gaz. vol. 212; p. 776.
 X-ray system. Stereoscopic. H. C. Snook and E. W. Kelly. No. 1,123,942; Jan. 5; Gaz. vol. 210; p. 253.
 X-ray system. Stereoscopic. H. C. Snook and E. W. Kelly. No. 1,163,959; Dec. 14; Gaz. vol. 221; p. 474.
 X-ray systems. Mechanical time-switch for. W. A. Winter and R. Klett. No. 1,129,263; Feb. 23; Gaz. vol. 211; p. 1034.
 X-ray systems. Wave-modifier for. C. M. Peabody. No. 1,129,424; Feb. 23; Gaz. vol. 211; p. 1091.
 X-ray target. W. D. Coolidge. No. 1,153,290; Sept. 14; Gaz. vol. 218; p. 364.
 X-ray tube. M. S. Clawson. No. 1,132,442; Mar. 16; Gaz. vol. 212; p. 983.
 X-ray tube. E. W. Kelly. No. 1,160,177; Nov. 16; Gaz. vol. 220; p. 708.
 X-ray tube. R. H. Machlett. No. 1,150,530; Aug. 17; Gaz. vol. 217; p. 892.
 X-ray tube. J. E. Seeley. No. 1,147,125; July 20; Gaz. vol. 216; p. 792.
 X-ray tube. H. C. Snook and G. H. White. No. 1,165,138; Dec. 21; Gaz. vol. 221; p. 928.
 X-ray tube. R. H. Wappler. No. 1,152,578; Sept. 7; Gaz. vol. 218; p. 74.
 Yardstick-support. J. A. Berchtold. No. 1,143,489; June 15; Gaz. vol. 215; p. 918.
 Yarn and the like. Treating. G. D. Burton. No. 1,131,623; Mar. 9; Gaz. vol. 212; p. 651.
 Yarn-cleaning apparatus. E. Frein. No. 1,144,864; June 29; Gaz. vol. 215; p. 1447.
 Yarn hanks. Machine for dyeing, bleaching, washing, scouring, &c. E. Kruse. No. 1,150,685; Aug. 17; Gaz. vol. 217; p. 947.
 Yarn-holder. C. Lea. No. 1,153,870; Sept. 14; Gaz. vol. 218; p. 572.
 Yarn, Manufacturing. J. Thame. No. 1,150,464; Aug. 17; Gaz. vol. 217; p. 870.
 Yarn or thread package and winding same. J. V. Cuniff. No. 1,141,893; June 1; Gaz. vol. 215; p. 282.
 Yarn-setting machine. Skein-. J. Cardin and E. Deady. No. 1,164,167; Dec. 14; Gaz. vol. 221; p. 546.
 Yarn-sizing apparatus. W. A. Nivling. No. 1,153,244; Sept. 14; Gaz. vol. 218; p. 348.
 Yarn, thread, or similar materials. Compensator device for controlling the unwinding of. G. Marcroft. No. 1,156,913; Oct. 19; Gaz. vol. 219; p. 608.
 Yarns and fabrics. Composition of matter for weighting silk. E. Butte. No. 1,154,174; Sept. 21; Gaz. vol. 218; p. 710.
 Yarns, hosiery, and weavings. Producing melange-like dyed. G. R. Pester. No. 1,145,846; July 6; Gaz. vol. 216; p. 305.
 Yarns. Method and apparatus for producing core-. W. E. Clogher. No. 1,124,863; Jan. 12; Gaz. vol. 210; p. 629.
 Yarns, Sizing. W. A. Nivling. No. 1,153,245; Sept. 14; Gaz. vol. 218; p. 349.
 Yeast and the like drier. J. H. A. Wiesener. No. 1,129,031; Feb. 16; Gaz. vol. 211; p. 918.
 Yoke. A. Guérineau. No. 1,142,091; June 8; Gaz. vol. 215; p. 391.
 Yoke attachment. Neck-. R. S. Mix. No. 1,146,643; July 13; Gaz. vol. 216; p. 605.
 Yoke attachment. Neck-. A. A. Ogden. No. 1,155,089; Sept. 28; Gaz. vol. 218; p. 1053.
 Yoke attachment. Neck-. C. E. Redfield. No. 1,165,343; Dec. 21; Gaz. vol. 221; p. 996.
 Yoke. Cattle. J. D. Carr. No. 1,137,572; Apr. 27; Gaz. vol. 213; p. 1358.
 Yoke. Combined cast-steel and wrought-iron. A. Copony. No. 1,131,041; Mar. 9; Gaz. vol. 212; p. 451.
 Yoke coupling. Neck-. L. W. Hammond. No. 1,159,020; Nov. 2; Gaz. vol. 220; p. 211.
 Yoke. Draft-gear. C. C. Kinsman. No. 1,164,725; Dec. 21; Gaz. vol. 221; p. 781.
 Yoke. Draft-gear. C. J. Nash. No. 1,137,348; Apr. 27; Gaz. vol. 213; p. 1281.
 Yoke. Draft-gear. V. Willoughby. No. 1,164,046; Dec. 14; Gaz. vol. 221; p. 505.
 Yoke. Draft-gear. H. I. Wrigley. No. 1,164,695; Dec. 21; Gaz. vol. 221; p. 771.
 Yoke. Draft-gear coupling-. V. Willoughby. No. 1,132,819; Mar. 23; Gaz. vol. 212; p. 1172.
 Yoke. Draw-bar. G. C. Murray. No. 1,153,242; Sept. 14; Gaz. vol. 218; p. 348.
 Yoke. Extensible neck-. G. L. Waddell. No. 1,138,518; May 4; Gaz. vol. 214; p. 279.
 Yoke-fastener. C. F. Murray. No. 1,161,876; Nov. 30; Gaz. vol. 220; p. 1397.
 Yoke-fastener. C. F. Murray. No. 1,161,952; Nov. 30; Gaz. vol. 220; p. 1426.
 Yoke for cattle. H. R. Knox. No. 1,139,538; May 18; Gaz. vol. 214; p. 712.
 Yoke for draft-gears. C. J. Nash. No. 1,156,618; Oct. 12; Gaz. vol. 219; p. 476.
 Yoke for draft-riggings. A. Copony. No. 1,131,040; Mar. 9; Gaz. vol. 212; p. 451.
 Yoke for draw-bars. E. Walters. No. 1,135,474; Apr. 13; Gaz. vol. 213; p. 535.
 Yoke for railway draft mechanism. Cast-metal. G. T. Johnson. No. 1,153,793; Sept. 14; Gaz. vol. 218; p. 544.
 Yoke holder. Safety neck-. J. M. Vandy. No. 1,130,945; Mar. 9; Gaz. vol. 212; p. 418.
 Yoke. Neck-. J. J. Bey. No. 1,145,540; July 6; Gaz. vol. 216; p. 197.
 Yoke. Neck-. J. Bothman. No. 1,133,918; Mar. 30; Gaz. vol. 212; p. 1599.
 Yoke. Neck-. B. P. Hanson. No. 1,134,968; Apr. 6; Gaz. vol. 213; p. 315.
 Yoke. Neck-. J. Mussell. No. 1,127,800; Feb. 9; Gaz. vol. 211; p. 440.
 Yoke-strap slide. Breast-. T. Noakes. No. 1,146,648; July 13; Gaz. vol. 216; p. 606.
 Yokes. Making combined cast-steel and wrought-iron. A. Copony. No. 1,128,296; Feb. 16; Gaz. vol. 211; p. 663.
 Yokes. Making draft-gear. A. Copony. No. 1,128,295; Feb. 16; Gaz. vol. 211; p. 663.
 Yokes. Manufacturing draft-. J. F. O'Connor. No. 1,153,331; Sept. 14; Gaz. vol. 218; p. 379.
 Yokes. Wearing-shoes for coupling. W. E. Coffin. No. 1,133,538; Mar. 30; Gaz. vol. 212; p. 1465.
 Zeolites. Manufacture of. P. de Brunn. No. 1,161,200; Nov. 23; Gaz. vol. 220; p. 1115.
 Zinc and lead vapors. Condenser for. E. A. Johansson. No. 1,145,685; July 6; Gaz. vol. 216; p. 248.
 Zinc. Arrangement for preventing the formation of smoke in the production of. A. Roitzheim. No. 1,152,050; Aug. 31; Gaz. vol. 217; p. 1519.
 Zinc-bearing materials. Treating. W. M. Johnson. No. 1,146,075; July 13; Gaz. vol. 216; p. 405.
 Zinc from an acid sulfate solution. Recovering. C. S. Vadner. No. 1,163,286; Dec. 7; Gaz. vol. 221; p. 193.
 Zinc from smelter-fumes, zinc ores, &c., Extraction, purification, and electrolytic precipitation of metallic. O. Best. No. 1,154,601; Sept. 28; Gaz. vol. 218; p. 885.

Alphabetical list of inventions—Continued.

-
- Zinc, Hydrometallurgy of. O. Best. No. 1,154,602; Sept. 28; Gaz. vol. 218; p. 885.
- Zinc ore or zinc-bearing material, Treatment of. S. Truax. No. 1,155,628; Oct. 5; Gaz. vol. 219; p. 105.
- Zinc-ore reduction, Electric. W. M. Johnson. No. 1,150,271; Aug. 17; Gaz. vol. 217; p. 804.
- Zinc ore, Removing cadmium from. G. Rigg. No. 1,161,885; Nov. 30; Gaz. vol. 220; p. 1400.
- Zinc ore, Removing cadmium from. G. Rigg. No. 1,161,886; Nov. 30; Gaz. vol. 220; p. 1400.
- Zinc ores, Removal of cadmium from. G. Rigg. No. 1,129,904; Mar. 2; Gaz. vol. 212; p. 24.
- Zinc oxid and recovering substances from waste and like liquors. W. Asef. No. 1,135,981; Apr. 20; Gaz. vol. 213; p. 756.
- Zinc oxid, Making pure. W. Asef. No. 1,165,743; Dec. 28; Gaz. vol. 221; p. 1177.
- Zinc, Process and apparatus for removing drossy residues from vertical muffles in the extraction of. A. Roltzheim. No. 1,144,066; June 22; Gaz. vol. 215; p. 1142.
- Zinc-producing furnace. A. Zavelberg. No. 1,136,304; Apr. 20; Gaz. vol. 213; p. 869.
- Zinc, Production of. O. Baltin. No. 1,166,170; Dec. 28; Gaz. vol. 221; p. 1328.
- Zinc, Roasting of compounds or ores containing. A. L. J. Queneau. No. 1,132,684; Mar. 23; Gaz. vol. 212; p. 1120.
- Zinc sulfate, Production of. R. Bonastre Llopert. No. 1,140,354; May 25; Gaz. vol. 214; p. 1033.
- Zinc sulfate, Production of. R. Bonastre Llopert. No. 1,142,795; June 15; Gaz. vol. 215; p. 675.
- Zinc tailings, Treating. A. C. Spencer. No. 1,150,897; Aug. 24; Gaz. vol. 217; p. 1077.
- Zirconium oxid free of iron, Producing white. P. Askenasy. No. 1,158,769; Nov. 2; Gaz. vol. 220; p. 126.
- Zither, Keyed. H. C. Marx. No. 1,150,284; Aug. 17; Gaz. vol. 217; p. 809.
- Zither, Keyed. H. C. Marx. No. 1,150,285; Aug. 17; Gaz. vol. 217; p. 809.
- Zither-playing mechanism. H. C. Marx. No. 1,150,283; Aug. 17; Gaz. vol. 217; p. 808.
-

ALPHABETICAL LIST OF DESIGNS.

- Absorbent block. W. M. Wilgus. No. 47,768; Aug. 24; Gaz. vol. 217; p. 1320.
- Advertising-easel. R. L. Graefe. No. 47,784; Sept. 7; Gaz. vol. 218; p. 289.
- Altar. G. Rathner. No. 48,009; Oct. 19; Gaz. vol. 219; p. 891.
- Anchor or similar article. H. W. Pleister. Nos. 48,258-64; Dec. 7; Gaz. vol. 221; pp. 320-2.
- Antirattling device. H. H. Jensen. No. 47,851; Sept. 21; Gaz. vol. 218; p. 859.
- Apron. A. Stern. No. 48,203; Nov. 23; Gaz. vol. 220; p. 1348.
- Aquarium. J. Halterbeck. No. 48,108; Nov. 9; Gaz. vol. 220; p. 638.
- Armband-clasp. C. P. Kuehn. No. 48,250; Dec. 7; Gaz. vol. 221; p. 319.
- Article of manufacture. A. K. Altkin. No. 47,680; Aug. 10; Gaz. vol. 217; p. 651.
- Article of manufacture. S. Berry. No. 47,745; Aug. 24; Gaz. vol. 217; p. 1316.
- Article of manufacture. W. Blakeman. No. 47,373; May 25; Gaz. vol. 214; p. 1292.
- Article of manufacture. L. de la Garza. Nos. 47,028-33; Mar. 2; Gaz. vol. 212; pp. 300-1.
- Article of manufacture. W. De Ville. No. 47,377; May 25; Gaz. vol. 214; p. 1293.
- Article of manufacture. J. Després. No. 46,863; Jan. 19; Gaz. vol. 210; p. 1043.
- Article of manufacture. J. S. Dunbar. No. 47,556; July 13; Gaz. vol. 216; p. 653.
- Article of manufacture. E. A. Farr. No. 47,379; May 25; Gaz. vol. 214; p. 1293.
- Article of manufacture. T. Haviland. No. 47,667; Aug. 8; Gaz. vol. 217; p. 244.
- Article of manufacture. M. W. Hinrichs. No. 47,107; Mar. 16; Gaz. vol. 212; p. 1027.
- Article of manufacture. W. E. Hunter. Nos. 47,489-90; June 22; Gaz. vol. 215; p. 1252.
- Article of manufacture. G. A. Kelch. No. 47,958; Oct. 12; Gaz. vol. 219; p. 569.
- Article of manufacture. W. T. Johnson. No. 47,731; Aug. 17; Gaz. vol. 217; p. 1010.
- Article of manufacture. G. Moore. No. 47,433; June 8; Gaz. vol. 215; p. 639.
- Article of manufacture. E. E. Walter. No. 47,206; Apr. 6; Gaz. vol. 213; p. 331.
- Article of manufacture. J. T. Wigley. No. 47,207; Apr. 6; Gaz. vol. 213; p. 331.
- Article of manufacture. J. T. Wigley. Nos. 47,314-15; May 4; Gaz. vol. 214; p. 321.
- Article of manufacture. D. C. Wilhelm. No. 46,980; Feb. 16; Gaz. vol. 211; p. 940.
- Article, Pocket. H. Kalnianszyn. No. 48,065; Nov. 2; Gaz. vol. 220; p. 329.
- Ash-receiver. C. F. Fisher. No. 47,749; Aug. 24; Gaz. vol. 217; p. 1316.
- Ash-tray. A. Hollander. No. 46,995; Feb. 23; Gaz. vol. 211; p. 1236.
- Ash-tray. T. G. Strater. No. 47,172; Mar. 30; Gaz. vol. 212; p. 1663.
- Atomizer, Coupling for the air-tube and heelpiece of an. T. A. De Vilbiss. No. 48,026; Oct. 26; Gaz. vol. 219; p. 1208.
- Auto-mat. F. W. Hutton. No. 46,832; Jan. 5; Gaz. vol. 210; p. 371.
- Auto pedal-pad. J. Winkler. No. 48,341; Dec. 21; Gaz. vol. 221; p. 1019.
- Automobile. A. F. Rockwell. No. 47,802; Sept. 7; Gaz. vol. 218; p. 292.
- Automobile-body. J. P. Grady. No. 46,898; Feb. 2; Gaz. vol. 211; p. 253.
- Automobile-body. W. A. Henderson. No. 48,110; Nov. 9; Gaz. vol. 220; p. 639.
- Automobile-body. F. Richard. No. 47,895; Sept. 28; Gaz. vol. 218; p. 1138.
- Automobile-body. L. Rubay. Nos. 47,626-7; July 20; Gaz. vol. 216; p. 1004.
- Automobile-body. L. Rubay. No. 47,777; Aug. 31; Gaz. vol. 217; p. 1645.
- Automobile-body. L. Rubay. Nos. 47,803-4; Sept. 7; Gaz. vol. 218; p. 292.
- Automobile-body. H. Smith. No. 47,252; Apr. 20; Gaz. vol. 213; p. 1090.
- Automobile-body. H. Smith. No. 47,630; July 20; Gaz. vol. 216; p. 1005.
- Automobile-body. W. B. West. No. 47,313; May 4; Gaz. vol. 214; p. 320.
- Automobile bumper-bar bracket-arm. H. H. Leckler. No. 46,855; Jan. 12; Gaz. vol. 210; p. 693.
- Automobile-fender. J. F. and H. E. Dodges. No. 48,345; Dec. 28; Gaz. vol. 221; p. 1423.
- Automobile-hood. D. M. Livingston. No. 47,854; Sept. 21; Gaz. vol. 218; p. 860.
- Automobile signal-casing. J. B. Hoge and C. W. Ward. No. 47,668; Aug. 3; Gaz. vol. 217; p. 244.
- Automobile-top. J. Bohnet. No. 48,270; Dec. 14; Gaz. vol. 221; p. 705.
- Automobile-wheel. L. C. Schwab. No. 47,390; May 25; Gaz. vol. 214; p. 1295.
- Automobiles, Hood and cowl-dash attachment for. J. and H. Schneider. No. 47,307; May 4; Gaz. vol. 214; p. 319.
- Awl. W. C. Porter. No. 47,893; Sept. 28; Gaz. vol. 218; p. 1137.
- Back-plate. J. J. Nash. No. 46,958; Feb. 16; Gaz. vol. 211; p. 936.
- Badge. C. J. Dieges. No. 47,555; July 13; Gaz. vol. 216; p. 653.
- Badge. S. C. Kull. No. 47,926; Oct. 5; Gaz. vol. 219; p. 255.
- Badge. L. A. McDonagh. No. 47,247; Apr. 20; Gaz. vol. 213; p. 1089.
- Badge. G. Pomeroy. No. 46,967; Feb. 16; Gaz. vol. 211; p. 937.
- Badge. T. C. Underwood. No. 46,977; Feb. 16; Gaz. vol. 211; p. 939.
- Badge. C. Whitney. No. 47,514; June 22; Gaz. vol. 215; p. 1256.
- Badge, emblem, or similar article. G. Adams. No. 47,707; Aug. 17; Gaz. vol. 217; p. 1006.
- Badge, emblem, or similar article. E. J. Berlet. No. 48,167; Nov. 23; Gaz. vol. 220; p. 1341.
- Badge or button. F. E. Wheaton. No. 47,661; July 27; Gaz. vol. 216; p. 1312.
- Badge or similar article. J. Milewski. No. 47,248; Apr. 20; Gaz. vol. 213; p. 1089.
- Badge or similar article, Fraternal-association. R. P. Stevens. No. 48,333; Dec. 21; Gaz. vol. 221; p. 1018.
- Badge or similar ornament. M. C. Barnard. No. 47,128; Mar. 23; Gaz. vol. 212; p. 1326.
- Badge or similar ornament. G. B. McKenzie. No. 47,647; July 27; Gaz. vol. 216; p. 1309.
- Bag. A. L. Adams. No. 47,064; Mar. 9; Gaz. vol. 212; p. 668.
- Bag for ladies' knitting or sewing, Arm-. M. Davison. No. 47,533; July 6; Gaz. vol. 216; p. 318.
- Bag-frame member. F. A. Fuller. Nos. 47,223-4; Apr. 13; Gaz. vol. 213; p. 720.
- Bag-frame member. F. A. Fuller. Nos. 47,587-8; July 20; Gaz. vol. 216; p. 997.
- Bag, Hand-. C. A. Whiting. No. 47,636; July 20; Gaz. vol. 216; p. 1006.
- Bag, Shopping-. A. L. Hettrich. No. 47,106; Mar. 16; Gaz. vol. 212; p. 1027.
- Bags and suitcases, Fastener member for. C. E. Smith. No. 48,087; Nov. 2; Gaz. vol. 220; p. 333.
- Bait, Artificial. L. Yakeley. No. 47,706; Aug. 10; Gaz. vol. 217; p. 655.
- Ball, Golf or playing. E. Kempshall. No. 47,159; Mar. 30; Gaz. vol. 212; p. 1661.
- Bank, Pocket savings-. I. J. Kusel. No. 47,237; Apr. 13; Gaz. vol. 213; p. 723.
- Bank, Savings-. A. T. Harrell. No. 47,395; June 1; Gaz. vol. 215; p. 292.
- Bank, Savings-. B. Manovill. No. 47,929; Oct. 5; Gaz. vol. 219; p. 256.
- Barber's chair. W. F. Koken. No. 47,236; Apr. 13; Gaz. vol. 213; p. 722.
- Basket, Crochet work-. M. L. Garrison. No. 47,557; July 13; Gaz. vol. 216; p. 653.
- Bassinet. H. Barker. No. 47,415; June 8; Gaz. vol. 215; p. 636.
- Batteries, Grid for electric storage. K. Knobloch. No. 46,834; Jan. 5; Gaz. vol. 210; p. 371.
- Battery-casing. R. H. Manson. No. 47,538; July 6; Gaz. vol. 216; p. 318.
- Battery handle, Storage-. T. A. Willard. No. 47,978; Oct. 12; Gaz. vol. 219; p. 573.
- Bed-cover clamp. W. L. Powell. No. 48,125; Nov. 9; Gaz. vol. 220; p. 641.
- Bed head and frame, Wall-. N. B. Douglass. No. 46,927; Feb. 9; Gaz. vol. 211; p. 610.
- Bed or couch. E. J. D. Knapp. Nos. 46,907-8; Feb. 2; Gaz. vol. 211; p. 255.
- Bed or couch and desk cabinet, Combined. F. L. Huntoon. No. 47,535; July 6; Gaz. vol. 216; p. 318.
- Bed-spring. P. Krakauer. No. 47,336; May 11; Gaz. vol. 214; p. 658.

- Bed, Table. J. Kekkonen. No. 47,234; Apr. 13; Gaz. vol. 213; p. 722.
- Bed-trimming. J. J. Nash. No. 47,469; June 15; Gaz. vol. 215; p. 968.
- Bed-trimmings, Neck for. J. J. Nash. No. 48,038; Oct. 26; Gaz. vol. 219; p. 1210.
- Bedquilt. I. Wilkinson. Nos. 47,477-9; June 15; Gaz. vol. 215; p. 970.
- Bedstead-trimming. J. J. Nash. Nos. 47,856-8; Sept. 21; Gaz. vol. 218; pp. 861-2.
- Beet knife, Sugar. J. Gustara. No. 46,878; Jan. 26; Gaz. vol. 210; p. 1349.
- Bell-crown. F. C. White. No. 48,211; Nov. 23; Gaz. vol. 220; p. 1349.
- Belt. J. Hanzel. No. 47,819; Sept. 14; Gaz. vol. 218; p. 580.
- Beverage-dispensing apparatus, Housing for a. C. Jr., and H. H. Doering. No. 47,453; June 15; Gaz. vol. 215; p. 966.
- Beverage-dispensing devices, Casing for. C. Doering, Jr. No. 48,171; Nov. 23; Gaz. vol. 220; p. 1342.
- Biscuit. J. L. Kellogg. No. 48,001; Oct. 19; Gaz. vol. 219; p. 890.
- Biscuit, Loaf of. A. F. Ward. Nos. 47,060-1; Mar. 2; Gaz. vol. 212; p. 306.
- Biscuit or rolls, Loaf of. D. J. Hanna. No. 47,253; Apr. 20; Gaz. vol. 213; p. 1090.
- Biscuit or rolls, Loaf of. D. J. Hanna. No. 48,179; Nov. 23; Gaz. vol. 220; p. 1343.
- Bits, Check-piece for. G. Buermann. No. 47,023; Mar. 2; Gaz. vol. 212; p. 300.
- Boat, Pleasure. I. Chase. No. 47,375; May 25; Gaz. vol. 214; p. 1295.
- Bob-sled. P. K. Heisler. No. 47,593; July 20; Gaz. vol. 216; p. 998.
- Bolster and sham-holder. F. Newkirk. No. 47,140; Mar. 23; Gaz. vol. 212; p. 1328.
- Book-rack. J. H. Jewett. No. 47,302; May 4; Gaz. vol. 214; p. 318.
- Boot, Rubber. F. E. Payne. No. 47,861; Sept. 21; Gaz. vol. 218; p. 862.
- Bottle. A. G. Carling. No. 48,151; Nov. 16; Gaz. vol. 220; p. 1011.
- Bottle. J. F. Carver. No. 47,640; July 27; Gaz. vol. 216; p. 1307.
- Bottle. R. Coane. No. 47,355; May 18; Gaz. vol. 214; p. 1000.
- Bottle. A. O. Freedman. No. 47,418; June 8; Gaz. vol. 215; p. 637.
- Bottle. E. Lehmann. Nos. 47,114-16; Mar. 16; Gaz. vol. 212; p. 1028.
- Bottle. H. C. G. Luyties. No. 48,119; Nov. 9; Gaz. vol. 220; p. 640.
- Bottle. J. F. O'Connor. No. 47,565; July 13; Gaz. vol. 216; p. 655.
- Bottle. W. Orem. No. 48,007; Oct. 19; Gaz. vol. 219; p. 891.
- Bottle. J. C. Roach. No. 47,650; July 27; Gaz. vol. 216; p. 1309.
- Bottle. T. L. Schofield. No. 48,265; Dec. 7; Gaz. vol. 221; p. 322.
- Bottle. T. Weicker. No. 47,278; Apr. 27; Gaz. vol. 213; p. 1417.
- Bottle. T. C. Wheaton. No. 47,393; May 25; Gaz. vol. 214; p. 1296.
- Bottle. G. Wiegand. No. 48,212; Nov. 23; Gaz. vol. 220; p. 1350.
- Bottle. C. D. Wolfson. No. 48,140; Nov. 9; Gaz. vol. 220; p. 644.
- Bottle. F. K. Woodworth. No. 47,062; Mar. 2; Gaz. vol. 212; p. 307.
- Bottle. B. Zwack. Nos. 48,215-16; Nov. 23; Gaz. vol. 220; p. 1350.
- Bottle case, Vacuum. C. F. Smith. No. 47,015; Feb. 23; Gaz. vol. 211; p. 1240.
- Bottle, Hot-water. B. F. Stauffer. No. 47,763; Aug. 24; Gaz. vol. 217; p. 1319.
- Bottle-opener. J. Hutter. No. 47,850; Sept. 21; Gaz. vol. 218; p. 859.
- Bottle-opener and button-hook, Combined. J. Bauman. No. 47,096; Mar. 16; Gaz. vol. 212; p. 1025.
- Bottle or jar. G. J. French. No. 46,992; Feb. 23; Gaz. vol. 211; p. 1235.
- Bottle or jar. A. Lloyd. No. 47,002; Feb. 23; Gaz. vol. 211; p. 1237.
- Bottle or similar article. A. Samuelson. No. 48,160; Nov. 16; Gaz. vol. 220; p. 1013.
- Bottle, Perfume. W. Orem. No. 47,434; June 8; Gaz. vol. 215; p. 640.
- Bottle, Poison. W. Burnett. No. 47,150; Mar. 30; Gaz. vol. 212; p. 1658.
- Bottle, Poison. W. W. and E. Hays. No. 47,298; May 4; Gaz. vol. 214; p. 318.
- Bottle, Poison. D. Scallione. No. 48,011; Oct. 19; Gaz. vol. 219; p. 891.
- Bottle, Poison. A. F. Stephenson. No. 47,348; May 11; Gaz. vol. 214; p. 660.
- Bottle-receptacle. G. C. Kindt. No. 47,564; July 13; Gaz. vol. 216; p. 655.
- Bottle-stopper, Pour-out. W. I. Ferris. No. 47,716; Aug. 17; Gaz. vol. 217; p. 1007.
- Bottles and fountain-syringes, Container for. L. L. Britton. No. 47,874; Sept. 28; Gaz. vol. 218; p. 1134.
- Bowl or similar article, Sugar. F. A. Sebring. No. 47,200; Apr. 6; Gaz. vol. 213; p. 329.
- Box. A. Danziger. No. 47,182; Apr. 6; Gaz. vol. 213; p. 326.
- Box. J. D. Gunder. No. 47,692; Aug. 10; Gaz. vol. 217; p. 653.
- Box. E. Hoffman. No. 46,866; Jan. 19; Gaz. vol. 210; p. 1043.
- Box. P. J. Swearingen. No. 47,440; June 8; Gaz. vol. 215; p. 641.
- Box. C. White. No. 47,528; June 29; Gaz. vol. 215; p. 1492.
- Box. S. Woods. No. 47,678; Aug. 3; Gaz. vol. 217; p. 246.
- Box, Confectionery. D. J. O'Brien. No. 47,606; July 20; Gaz. vol. 216; p. 1000.
- Box, Pocket. J. Jasus. No. 48,064; Nov. 2; Gaz. vol. 220; p. 329.
- Box, Tobacco and match. W. J. Fricke. No. 47,289; May 4; Gaz. vol. 214; p. 316.
- Bracelet. J. Cohn. No. 47,746; Aug. 24; Gaz. vol. 217; p. 1316.
- Bracelet. E. M. Davis. No. 48,243; Dec. 7; Gaz. vol. 221; p. 318.
- Bracelet. F. F. Wells. No. 47,148; Mar. 23; Gaz. vol. 212; p. 1329.
- Bracelet-link. M. H. Cox. No. 47,993; Oct. 19; Gaz. vol. 219; p. 888.
- Bracelet, Watch. C. L. Depollier. No. 47,376; May 25; Gaz. vol. 214; p. 1293.
- Bracelet, watch-fob, or vest-chain. J. M. Fisher. No. 47,717; Aug. 17; Gaz. vol. 217; p. 1007.
- Bracket. J. F. Egan. No. 47,287; May 4; Gaz. vol. 214; p. 315.
- Bracket and lamp for street illumination. F. H. Murphy. No. 46,913; Feb. 2; Gaz. vol. 211; p. 256.
- Braid. E. Israel. No. 47,396; June 1; Gaz. vol. 215; p. 292.
- Bread-board. J. Campbell. No. 47,322; May 11; Gaz. vol. 214; p. 656.
- Breastpin or similar article of jewelry. L. D. Frenot. No. 48,175; Nov. 23; Gaz. vol. 220; p. 1343.
- Brick. B. W. Ballou. No. 47,844; Sept. 21; Gaz. vol. 218; p. 858.
- Bridge. L. B. Smith. No. 47,171; Mar. 30; Gaz. vol. 212; p. 1663.
- Broom. V. B. Bright. No. 47,101; Mar. 16; Gaz. vol. 212; p. 1026.
- Broom or mop holder. J. S. Leonhardt. No. 47,927; Oct. 5; Gaz. vol. 219; p. 255.
- Brush, Fountain. P. J. Bertelsen and G. Keenan, Jr. No. 47,098; Mar. 16; Gaz. vol. 212; p. 1025.
- Brush handle, Shaving. C. E. Thompson. No. 48,050; Oct. 26; Gaz. vol. 219; p. 1212.
- Brush, Tooth. C. Boccia. No. 47,100; Mar. 16; Gaz. vol. 212; p. 1026.
- Brush, Tooth. W. J. Hunt. No. 47,669; Aug. 3; Gaz. vol. 217; p. 244.
- Buckle. J. V. Christl. No. 46,861; Jan. 19; Gaz. vol. 210; p. 1042.
- Buckle, Bale-tie. S. W. Parsons. No. 47,699; Aug. 10; Gaz. vol. 217; p. 654.
- Buffet, Luncheonette. L. G. Gray and A. J. Blyth. No. 47,462; June 15; Gaz. vol. 215; p. 967.
- Button. F. C. Mintie. No. 47,734; Aug. 17; Gaz. vol. 217; p. 1011.
- Button. M. Silverman. No. 47,391; May 25; Gaz. vol. 214; p. 1295.
- Button, badge, or similar article. L. Cohn. No. 47,709; Aug. 17; Gaz. vol. 217; p. 1006.
- Button, badge, or similar article. B. R. Jolly and P. L. Fowler. No. 47,303; May 4; Gaz. vol. 214; p. 319.
- Button, Beehive. A. S. Levy. No. 47,466; June 15; Gaz. vol. 215; p. 968.
- Button, Collar. F. A. Canfield. No. 47,374; May 25; Gaz. vol. 214; p. 1293.
- Button, Collar. A. Friedberg. No. 46,873; Jan. 26; Gaz. vol. 210; p. 1348.
- Button, Collar. H. A. Oehlke. No. 47,543; July 6; Gaz. vol. 216; p. 319.
- Button-face. S. Goldberg. No. 46,929; Feb. 9; Gaz. vol. 211; p. 610.
- Button-head. J. A. Palmer. No. 47,860; Sept. 21; Gaz. vol. 218; p. 861.
- Button-hooks or similar articles, Handle for. J. L. Somer. No. 48,015; Oct. 19; Gaz. vol. 219; p. 892.
- Cabinet, Barber's. F. F. and E. S. Fishback. No. 48,061; Nov. 2; Gaz. vol. 220; p. 329.
- Cabinet, Display. A. S. Garland. No. 47,664; Aug. 3; Gaz. vol. 217; p. 243.
- Cabinet, Kitchen. F. Coss. No. 48,308; Dec. 21; Gaz. vol. 221; p. 1012.
- Cabinet, Scale. J. B. Watling. No. 48,051; Oct. 26; Gaz. vol. 219; p. 1212.
- Calculator-casing. R. E. McClelland. No. 46,933; Feb. 9; Gaz. vol. 211; p. 611.
- Calendar, Desk. A. E. Bates. No. 46,938; Feb. 16; Gaz. vol. 211; p. 931.
- Calendar-frame. H. G. Query. No. 47,862; Sept. 21; Gaz. vol. 218; p. 862.

Alphabetical list of designs—Continued.

- Can-opener cutting-blade. H. Popper. No. 46,886; Jan. 26; Gaz. vol. 210; p. 1350.
- Can, Sifter-. F. Eberhart. No. 47,663; Aug. 3; Gaz. vol. 217; p. 243.
- Candle. H. H. Will. No. 47,086; Mar. 9; Gaz. vol. 212; p. 672.
- Candles, Adjustable clamp-arm for supporting. C. E. Jones. No. 47,260; Apr. 27; Gaz. vol. 213; p. 1414.
- Candy-container or bank. Novelty. G. Semler. Nos. 48,130-1; Nov. 9; Gaz. vol. 220; p. 642.
- Canopy. L. W. Andersen. No. 48,056; Nov. 2; Gaz. vol. 220; p. 328.
- Canopy, Bracket-. J. J. Nash. No. 46,957; Feb. 16; Gaz. vol. 211; p. 935.
- Canopy or reflector for artificial light. E. F. Guth. Nos. 47,590-1; July 20; Gaz. vol. 216; p. 998.
- Canopy or reflector for artificial light. R. V. Owen. No. 47,521; June 29; Gaz. vol. 215; p. 1491.
- Canopy or reflector for artificial light. R. V. Owen. Nos. 47,523-4; June 29; Gaz. vol. 215; p. 1491.
- Canopy or reflector for artificial light. R. V. Owen. Nos. 47,609-10; July 20; Gaz. vol. 216; p. 1001.
- Cap, Bathing-. V. Guinzburg. Nos. 46,899-902; Feb. 2; Gaz. vol. 211; pp. 253-4.
- Cap, Bathing-. T. W. Miller. Nos. 47,165-8; Mar. 30; Gaz. vol. 212; p. 1662.
- Cap, Bathing-. G. F. Wentz. No. 47,176; Mar. 30; Gaz. vol. 212; p. 1664.
- Car-replacer. H. A. Eaton. No. 47,949; Oct. 12; Gaz. vol. 219; p. 568.
- Cars, motor-busses, or the like vehicles, Cover for drivers of motor-. M. C. Morris. No. 47,306; May 4; Gaz. vol. 214; p. 319.
- Carbureter. C. B. Kent. No. 47,304; May 4; Gaz. vol. 214; p. 319.
- Card. W. B. Powell. No. 47,828; Sept. 14; Gaz. vol. 218; p. 582.
- Card-case. C. J. Dieges. No. 46,926; Feb. 9; Gaz. vol. 211; p. 610.
- Card, Color-. J. F. W. Kroeger. No. 48,226; Nov. 30; Gaz. vol. 220; p. 1698.
- Card-holder and paper-weight. T. H. Walker. No. 48,210; Nov. 23; Gaz. vol. 220; p. 1349.
- Carpet. G. Reybet. No. 48,229; Nov. 30; Gaz. vol. 220; p. 1698.
- Carriage. N. Mancini. No. 48,121; Nov. 9; Gaz. vol. 220; p. 640.
- Carriage or bassinet canopy, Baby-. O. W. Siebert and O. N. Turner. No. 48,267; Dec. 7; Gaz. vol. 221; p. 322.
- Casket handle, Burial-. C. Blesch. Nos. 46,892-3; Feb. 2; Gaz. vol. 211; p. 252.
- Casket handle, Burial-. C. Blesch. No. 47,281; May 4; Gaz. vol. 214; p. 315.
- Casket-trimming. J. H. Holt. No. 46,879; Jan. 26; Gaz. vol. 210; p. 1349.
- Casket-trimming. E. R. Sargent. No. 46,888; Jan. 26; Gaz. vol. 210; p. 1351.
- Casserole. T. Haviland. No. 47,665; Aug. 3; Gaz. vol. 217; p. 243.
- Casserole. G. S. Jenkins. No. 48,112; Nov. 9; Gaz. vol. 220; p. 639.
- Ceiling-plate. L. W. Andersen. No. 48,057; Nov. 2; Gaz. vol. 220; p. 328.
- Chafing-dish. F. Kuhn and F. E. Shallor. No. 47,884; May 25; Gaz. vol. 214; p. 1294.
- Chain connector, Insulated. G. W. Goodridge. No. 47,917; Oct. 5; Gaz. vol. 219; p. 254.
- Chain-link. A. Cooper. Nos. 48,023-5; Oct. 26; Gaz. vol. 219; p. 1208.
- Chain safety-clasp. Watch-. P. B. White. No. 47,446; June 8; Gaz. vol. 215; p. 642.
- Chair. J. P. Gibson. No. 47,036; Mar. 2; Gaz. vol. 212; p. 301.
- Chair. E. McLarty. No. 48,324; Dec. 21; Gaz. vol. 221; p. 1016.
- Chair, Bent-stock. F. H. Herhold. No. 48,030; Oct. 26; Gaz. vol. 219; p. 1209.
- Chair, Child's hair-cutting. W. F. Koken. No. 48,322; Dec. 21; Gaz. vol. 221; p. 1015.
- Chair, Combination study-. E. C. Klemm and E. W. Schreiber. No. 47,464; June 15; Gaz. vol. 215; p. 968.
- Chandelier arm-hook. A. W. Reiser. No. 47,621; July 20; Gaz. vol. 216; p. 1003.
- Chandelier cluster-hook. A. W. Reiser. No. 47,620; July 20; Gaz. vol. 216; p. 1003.
- Chandelier cluster-hook. A. W. Reiser. No. 48,127; Nov. 9; Gaz. vol. 220; p. 641.
- Chandelier, Illuminating-. E. C. McKinnie. No. 48,034; Oct. 26; Gaz. vol. 219; p. 1209.
- Chandeliers and brackets, Arm for. C. E. Jones. Nos. 46,930-2; Feb. 9; Gaz. vol. 211; p. 611.
- Chandeliers and brackets, Arm for. C. E. Jones. No. 47,597; July 20; Gaz. vol. 216; p. 999.
- Chandeliers and brackets, Arm for. C. E. Jones. No. 47,920; Oct. 5; Gaz. vol. 219; p. 254.
- Chandeliers and brackets, Arm for. C. E. Jones. No. 48,032; Oct. 26; Gaz. vol. 219; p. 1209.
- Charm. H. Brandon. No. 46,941; Feb. 16; Gaz. vol. 211; p. 932.
- Charm. A. H. Kraft. No. 47,262; Apr. 27; Gaz. vol. 213; p. 1414.
- Charm, badge, or similar article. J. Bain. Nos. 47,980-81; Oct. 19; Gaz. vol. 219; p. 886.
- Charm, stick-pin, statuette, lucky dog, or comic dog. S. Kondow. No. 48,002; Oct. 19; Gaz. vol. 219; p. 890.
- Chart, Game-. A. F. Fields. No. 47,869; Sept. 21; Gaz. vol. 218; p. 863.
- Check holder and punch. S. C. Steetle. No. 48,332; Dec. 21; Gaz. vol. 221; p. 1017.
- Chuck, Magnetic. W. S. Griffith. No. 47,038; Mar. 2; Gaz. vol. 212; p. 302.
- Cigar-holder. W. H. Saart. No. 47,437; June 8; Gaz. vol. 215; p. 640.
- Cigars, Package of. S. G. Salomon. No. 46,968; Feb. 16; Gaz. vol. 211; p. 937.
- Cinch-ring. G. Buerman. No. 47,282; May 4; Gaz. vol. 214; p. 315.
- Claw-hook. S. E. Parker. No. 47,008; Feb. 23; Gaz. vol. 211; p. 1238.
- Cleaner casing, Suction-. F. A. English. No. 46,987; Feb. 23; Gaz. vol. 211; p. 1234.
- Cleaner casing, Suction-. W. W. Rosenfield. No. 47,409; June 1; Gaz. vol. 215; p. 295.
- Cleaner frame, Suction-. W. G. Doty. No. 47,257; Apr. 27; Gaz. vol. 213; p. 1413.
- Clock. W. G. Campbell. No. 47,946; Oct. 12; Gaz. vol. 219; p. 567.
- Clock-casing. W. J. Herschede. No. 47,187; Apr. 6; Gaz. vol. 213; p. 327.
- Clock-frame. W. C. Horner. No. 47,695; Aug. 10; Gaz. vol. 217; p. 653.
- Clock-frame. J. E. Steinmeier. No. 47,203; Apr. 6; Gaz. vol. 213; p. 330.
- Clock-frame. J. E. Steinmeier. No. 47,439; June 8; Gaz. vol. 215; p. 640.
- Closet-partition frame. J. McClelland. No. 46,883; Jan. 26; Gaz. vol. 210; p. 1350.
- Cloth-cutting machines, Housing for. C. W. Thomas. No. 46,919; Feb. 2; Gaz. vol. 211; p. 257.
- Clothes-pin. J. Grimes. No. 46,852; Jan. 12; Gaz. vol. 210; p. 692.
- Clothes-pin. J. J. Henry. No. 48,223; Nov. 30; Gaz. vol. 220; p. 1697.
- Coffee and tea pots, percolators, and tea-ball pots, Body for. F. J. Cross. No. 48,104; Nov. 9; Gaz. vol. 220; p. 638.
- Coffee-grinder pedestal. W. F. Stimpson. No. 47,204; Apr. 6; Gaz. vol. 213; p. 330.
- Coffee-mill casing. F. F. Wear and B. M. Ely. No. 47,660; July 27; Gaz. vol. 216; p. 1312.
- Coffee-percolator. C. A. Allen, Jr. No. 47,681; Aug. 10; Gaz. vol. 217; p. 651.
- Coffins and caskets, Corner-piece for. A. M. Holstein. Nos. 46,820-31; Jan. 5; Gaz. vol. 210; pp. 368-71.
- Coin-actuating-machine casing. W. L. Bratton. No. 47,945; Oct. 12; Gaz. vol. 219; p. 567.
- Collar. W. Scheuer. No. 47,805; Sept. 7; Gaz. vol. 218; p. 293.
- Collar, Fold-. H. F. Hurd. No. 48,000; Oct. 19; Gaz. vol. 219; p. 890.
- Comb. W. W. Weitling. No. 47,147; Mar. 23; Gaz. vol. 212; p. 1329.
- Concrete bridge. D. B. Luten. No. 47,928; Oct. 5; Gaz. vol. 219; p. 255.
- Concrete grave-lot marker. A. H. Havard. No. 46,817; Jan. 5; Gaz. vol. 210; p. 367.
- Condiment-holder. M. Davison and E. Kanderson. No. 46,986; Feb. 23; Gaz. vol. 211; p. 1234.
- Cork or seal for capping bottles, Crown. S. Kaye. No. 48,033; Oct. 26; Gaz. vol. 219; p. 1209.
- Cork-puller frame. C. Morgan. No. 47,755; Aug. 24; Gaz. vol. 217; p. 1317.
- Cooler. K. E. Bruton. No. 47,022; Mar. 2; Gaz. vol. 212; p. 299.
- Corn or fruit holder. C. H. Brunow. No. 48,305; Dec. 21; Gaz. vol. 221; p. 1012.
- Cornet. W. E. Higgins. No. 48,319; Dec. 21; Gaz. vol. 221; p. 1015.
- Cotton-receiver. A. D. Childerhose. No. 46,982; Feb. 16; Gaz. vol. 211; p. 940.
- Couch, Invalid's. G. L. Hunt. No. 47,108; Mar. 16; Gaz. vol. 212; p. 1027.
- Cream, sugar, and butter set. A. J. Sanford. No. 47,573; July 13; Gaz. vol. 216; p. 656.
- Crochet-needle. M. E. Fitch. No. 47,718; Aug. 17; Gaz. vol. 217; p. 1008.
- Cruet-stand. W. Kelsow. No. 47,261; Apr. 27; Gaz. vol. 213; p. 1414.
- Cruiser, Pleasure-. I. Chase. No. 48,220; Nov. 30; Gaz. vol. 220; p. 1697.
- Cuff. W. Scheuer. No. 48,128; Nov. 9; Gaz. vol. 220; p. 641.
- Cuff-holder. A. Blattmann. No. 47,583; July 20; Gaz. vol. 216; p. 997.
- Cup. F. A. Sebring. No. 47,342; May 11; Gaz. vol. 214; p. 659.
- Cup-dispenser. C. Errett. No. 48,173; Nov. 23; Gaz. vol. 220; p. 1342.
- Cup-dispenser. C. W. La Rue. No. 48,185; Nov. 23; Gaz. vol. 220; p. 1345.
- Cup or similar article. J. H. Venon. No. 47,413; June 1; Gaz. vol. 215; p. 295.

- Curtain. G. J. Martin. No. 46,912; Feb. 2; Gaz. vol. 211; p. 256.
- Curtain-fixture. A. Almasy. No. 46,937; Feb. 16; Gaz. vol. 211; p. 931.
- Curtain-light. C. E. Titchener. No. 47,146; Mar. 23; Gaz. vol. 212; p. 1329.
- Curtain-pole and shade-roller support. A. Martin. No. 47,004; Feb. 23; Gaz. vol. 211; p. 1238.
- Deflating implement. C. E. Delaplain. No. 47,877; Sept. 28; Gaz. vol. 218; p. 1135.
- Dental mold. S. A. Levin. No. 47,493; June 22; Gaz. vol. 215; p. 1252.
- Desk. L. O. Fisher and C. D. Massey. No. 46,815; Jan. 5; Gaz. vol. 210; p. 367.
- Desk. Cabinet. T. J. Edwards. No. 47,813; Sept. 14; Gaz. vol. 218; p. 579.
- Desk-pad and inkstand, Combination. C. H. Numan. No. 47,495; June 22; Gaz. vol. 215; p. 1253.
- Desk. School. S. M. Jones. No. 47,598; July 20; Gaz. vol. 216; p. 999.
- Desk. School. L. H. McKee. No. 48,076; Nov. 2; Gaz. vol. 220; p. 331.
- Dial. Price. J. R. Scott. No. 46,915; Feb. 2; Gaz. vol. 211; p. 257.
- Diamond or other similar precious stone. E. G. H. Schenck. Nos. 47,012-14; Feb. 23; Gaz. vol. 211; p. 1299.
- Dish. J. P. Eustis. No. 47,846; Sept. 21; Gaz. vol. 218; p. 859.
- Dish. C. Graff. No. 47,751; Aug. 24; Gaz. vol. 217; p. 1317.
- Dish. A. D. Ketcher. No. 48,340; Dec. 21; Gaz. vol. 221; p. 1019.
- Dish. G. D. Sailer. No. 47,572; July 13; Gaz. vol. 216; p. 656.
- Dish. H. P. Sinclair. Nos. 47,411-12; June 1; Gaz. vol. 215; p. 295.
- Dish. R. H. Stoltz. No. 47,368; May 18; Gaz. vol. 214; p. 1002.
- Dish and tooth-brush holder, Combined soap. P. M. Shepard. No. 46,975; Feb. 16; Gaz. vol. 211; p. 939.
- Dish. College ice. J. Hughes. No. 47,790; Sept. 7; Gaz. vol. 218; p. 290.
- Dish cover, Transparent cooking. W. Churchill. No. 48,168; Nov. 23; Gaz. vol. 220; p. 1341.
- Dish. Covered. T. Haviland. No. 47,666; Aug. 3; Gaz. vol. 217; p. 243.
- Dish or similar article. J. N. Ovens. No. 47,142; Mar. 23; Gaz. vol. 212; p. 1328.
- Dish or similar article, Glass. P. Ebeling. No. 48,245; Dec. 7; Gaz. vol. 221; p. 318.
- Dish ornamentation. J. H. Venon. No. 47,767; Aug. 24; Gaz. vol. 217; p. 1320.
- Dish. Soap. S. Hipkins. No. 47,188; Apr. 6; Gaz. vol. 213; p. 327.
- Dish. Soap. P. M. Shepard. Nos. 46,973-4; Feb. 16; Gaz. vol. 211; pp. 938-9.
- Dish. Transparent cooking. W. Churchill. No. 48,169; Nov. 23; Gaz. vol. 220; p. 1341.
- Dish. Transparent cooking. W. Churchill. No. 48,241; Dec. 7; Gaz. vol. 221; p. 317.
- Dispensing apparatus. R. P. Wilton. No. 48,164; Nov. 16; Gaz. vol. 220; p. 1014.
- Dispensing device. L. Bergman and J. L. Mendel. No. 47,871; Sept. 28; Gaz. vol. 218; p. 1134.
- Dispensing device. R. A. Courtney. No. 47,948; Oct. 12; Gaz. vol. 219; p. 568.
- Display-cabinet. M. J. Karpeles. Nos. 47,954-7; Oct. 12; Gaz. vol. 219; p. 569.
- Display-cabinet. A. W. Murdock and A. J. Dougherty, Jr. No. 47,776; Aug. 31; Gaz. vol. 217; p. 1645.
- Display-case. L. E. Kingman. No. 46,999; Feb. 23; Gaz. vol. 211; p. 1237.
- Display-case. P. Rappaport. No. 47,829; Sept. 14; Gaz. vol. 218; p. 582.
- Display-case. F. Verplast. No. 48,337; Dec. 21; Gaz. vol. 221; p. 1018.
- Display device. O. B. Carson. No. 47,781; Sept. 7; Gaz. vol. 218; p. 289.
- Display-rack. A. Waldeck. No. 47,174; Mar. 30; Gaz. vol. 212; p. 1663.
- Display rack. Shoe. J. Moore. No. 47,797; Sept. 7; Gaz. vol. 218; p. 291.
- Display-stand. A. H. Bamberger. No. 47,575; July 20; Gaz. vol. 216; p. 995.
- Display-stand. B. and A. B. Block. No. 47,772; Aug. 31; Gaz. vol. 217; p. 1644.
- Display-stand. O. B. Carson. No. 47,780; Sept. 7; Gaz. vol. 218; p. 289.
- Display-stand. O. Moberg. No. 46,934; Feb. 9; Gaz. vol. 211; p. 611.
- Distributor-block. G. L. Lang. No. 46,951; Feb. 16; Gaz. vol. 211; p. 934.
- Dolly. R. Gair. Nos. 47,455-61; June 15; Gaz. vol. 215; pp. 966-7.
- Doll. C. Avery. No. 47,180; Apr. 6; Gaz. vol. 213; p. 326.
- Doll. G. Averill. No. 47,447; June 15; Gaz. vol. 215; p. 965.
- Doll. G. W. Cooley. No. 48,221; Nov. 30; Gaz. vol. 220; p. 1697.
- Doll. L. Gould. No. 47,037; Mar. 2; Gaz. vol. 212; p. 302.
- Doll. J. B. Gruelle. No. 47,789; Sept. 7; Gaz. vol. 218; p. 290.
- Doll. T. H. Hindle, Jr. No. 47,361; May 18; Gaz. vol. 214; p. 1001.
- Doll. E. Karg. No. 47,041; Mar. 2; Gaz. vol. 212; p. 302.
- Doll. E. Karg. No. 47,599; July 20; Gaz. vol. 216; p. 999.
- Doll. G. C. Ormsby. No. 47,496; June 22; Gaz. vol. 215; p. 1253.
- Doll. A. C. Renwick. No. 47,408; June 1; Gaz. vol. 215; p. 294.
- Doll. K. Silverman. No. 47,761; Aug. 24; Gaz. vol. 217; p. 1318.
- Doll. Eskimo. W. Hofacker. No. 48,111; Nov. 9; Gaz. vol. 220; p. 639.
- Doll or statuette. S. W. Straus. No. 47,657; July 27; Gaz. vol. 216; p. 1311.
- Doll or toy. A. R. Hodge. No. 47,259; Apr. 27; Gaz. vol. 213; p. 1213.
- Doll. Slavonian-peasant. Z. Walovich. No. 47,513; June 22; Gaz. vol. 215; p. 1256.
- Door checks and closers, Casing for. A. A. Page. No. 48,327; Dec. 21; Gaz. vol. 221; p. 1016.
- Doors, Push-plate for panic. J. H. Stewart. No. 48,134; Nov. 9; Gaz. vol. 220; p. 643.
- Drawer-pull. O. H. L. Wernicke. No. 47,445; June 8; Gaz. vol. 215; p. 642.
- Drawers, Closed. A. Heuser. No. 47,423; June 8; Gaz. vol. 215; p. 638.
- Dress. H. Collins. Nos. 47,255-6; Apr. 27; Gaz. vol. 213; pp. 1412-13.
- Dress. J. N. Greathouse. No. 46,851; Jan. 12; Gaz. vol. 210; p. 692.
- Dresser, Combination. A. H. Hamilton. No. 47,818; Sept. 14; Gaz. vol. 218; p. 580.
- Drinking-glass. F. E. Anderson. No. 48,217; Nov. 30; Gaz. vol. 220; p. 1696.
- Drum for containing material. D. D. McTavish. No. 47,191; Apr. 6; Gaz. vol. 213; p. 328.
- Dust-pan, shovel, or scoop. L. C. Schindler. No. 47,170; Mar. 30; Gaz. vol. 212; p. 1663.
- Electric-candle-base hickey. C. E. Jones. No. 47,924; Oct. 5; Gaz. vol. 219; p. 255.
- Electric-light globe. F. Schwartz. No. 48,161; Nov. 16; Gaz. vol. 220; p. 1013.
- Electric-light globe. F. Schwartz. No. 48,201; Nov. 23; Gaz. vol. 220; p. 1348.
- Electric-light hanger-fixture. F. C. Morrell. No. 48,158; Nov. 16; Gaz. vol. 220; p. 1013.
- Electric-light shade. H. Pickhardt. No. 47,367; May 18; Gaz. vol. 214; p. 1002.
- Electric-light shade, Glass. A. W. Reiser. No. 48,126; Nov. 9; Gaz. vol. 220; p. 641.
- Electric-light socket. W. B. Cosgrave. No. 47,241; Apr. 20; Gaz. vol. 213; p. 1088.
- Electric-lighting fixture. S. H. Shiminsky. No. 47,899; Sept. 28; Gaz. vol. 218; p. 1138.
- Electric-lighting fixture adapted for use as a suspended room ornamentation. L. Gudeman. No. 48,274; Dec. 14; Gaz. vol. 221; p. 705.
- Electric-lighting-fixture canopy and socket cover. F. K. Maerz. No. 48,036; Oct. 26; Gaz. vol. 219; p. 1210.
- Electric-lighting fixtures, Ring for. F. K. Maerz. No. 48,035; Oct. 26; Gaz. vol. 219; p. 1210.
- Electric-lighting fixtures, Ring for. F. K. Maerz. No. 48,037; Oct. 26; Gaz. vol. 219; p. 1210.
- Electrical conduit outlet-box. C. H. Bissell. Nos. 47,985-6; Oct. 19; Gaz. vol. 219; p. 887.
- Electrical-conduit outlet-box. C. H. Bissell and D. C. Gidley. No. 47,987; Oct. 19; Gaz. vol. 219; p. 887.
- Electrical-conduit outlet-box. E. G. Smith. No. 48,331; Dec. 21; Gaz. vol. 221; p. 1017.
- Electrical fixture. H. R. Gilson. Nos. 47,104-5; Mar. 16; Gaz. vol. 212; pp. 1026-7.
- Emblem. O. Miller. No. 46,954; Feb. 16; Gaz. vol. 211; p. 935.
- Emblem. J. A. Salzman. No. 47,169; Mar. 30; Gaz. vol. 212; p. 1662.
- Emblem, badge, medal, or ornament. E. D. Knowles. No. 48,183; Nov. 23; Gaz. vol. 220; p. 1344.
- Emblem. Base-ball. W. F. Hirschmann. No. 47,488; June 22; Gaz. vol. 215; p. 1251.
- Emblem or similar article. J. C. Miller. No. 47,387; May 25; Gaz. vol. 214; p. 1295.
- Emblem or similar article of jewelry. M. Wolfe. Nos. 47,839-40; Sept. 14; Gaz. vol. 218; p. 584.
- Emblem, Fraternal. A. M. Shipman. No. 46,916; Feb. 2; Gaz. vol. 211; p. 257.
- Emblem, Society. A. Friedman. No. 48,106; Nov. 9; Gaz. vol. 220; p. 638.
- Emblem, Society. M. A. Norkunas. No. 46,960; Feb. 16; Gaz. vol. 211; p. 936.
- Embroidered trimming. C. F. Ikle. Nos. 47,073-8; Mar. 9; Gaz. vol. 212; pp. 670-1.
- Embroidered trimming. C. F. Ikle. No. 47,562; July 13; Gaz. vol. 216; p. 654.
- Embroidered trimming. W. Wirth. Nos. 47,087-8; Mar. 9; Gaz. vol. 212; p. 672.
- Embroidered trimming. H. Zeller. Nos. 47,089-94; Mar. 9; Gaz. vol. 212; pp. 672-3.
- Embroidery. H. Schwarber. No. 47,276; Apr. 27; Gaz. vol. 213; p. 1417.

Alphabetical list of designs—Continued.

- Embroidery. H. Schwarber. No. 48,129; Nov. 9; Gaz. vol. 220; p. 642.
- Embroidery-pattern. W. C. White. No. 48,139; Nov. 9; Gaz. vol. 220; p. 644.
- Engine body, Gas-. A. B. Shultz. No. 47,673; Aug. 8; Gaz. vol. 217; p. 245.
- Engine body, Traction-. G. C. Andrews. No. 48,871; Jan. 26; Gaz. vol. 210; p. 1348.
- Engine casing, Gas-. S. I. Fekete. No. 47,689; Aug. 10; Gaz. vol. 217; p. 652.
- Envelop. F. J. Parks. No. 47,569; July 13; Gaz. vol. 216; p. 656.
- Eye-shield. R. M. Dillon. No. 46,872; Jan. 26; Gaz. vol. 210; p. 1348.
- Fabric. S. L. Crownfield. No. 47,356; May 18; Gaz. vol. 214; p. 1000.
- Fabric. R. B. Griffin. No. 47,226; Apr. 13; Gaz. vol. 213; p. 720.
- Fabric, Cut pile. N. Albrecht. Nos. 47,841-3; Sept. 21; Gaz. vol. 218; p. 858.
- Fabric, Embossed. F. H. Walker. No. 47,059; Mar. 2; Gaz. vol. 212; p. 806.
- Fabric, Embossed. F. H. Walker. No. 47,205; Apr. 6; Gaz. vol. 213; p. 330.
- Fabric lace. A. E. Newton. Nos. 48,005-6; Oct. 19; Gaz. vol. 219; pp. 890-1.
- Fabric, Lace. E. J. Ozanne. Nos. 47,566-8; July 13; Gaz. vol. 216; p. 655.
- Fabric or similar article, Woven. G. H. Perkins. No. 47,671; Aug. 3; Gaz. vol. 217; p. 244.
- Fabric, Plush. B. A. Strock. No. 47,277; Apr. 27; Gaz. vol. 213; p. 1417.
- Fabric, Printed cotton. C. M. Howard. No. 47,517; June 29; Gaz. vol. 215; p. 1490.
- Fabric, Textile. E. W. Doughty. No. 47,715; Aug. 17; Gaz. vol. 217; p. 1007.
- Fabric, Textile. H. R. Mallinson. No. 47,338; May 11; Gaz. vol. 214; p. 659.
- Fabric, Textile. H. R. Mallinson. No. 47,889; Sept. 28; Gaz. vol. 218; p. 1137.
- Fabric, Textile. H. R. Mallinson. No. 48,077; Nov. 2; Gaz. vol. 220; p. 331.
- Fabric, Textile. H. R. Mallinson. No. 48,120; Nov. 9; Gaz. vol. 220; p. 640.
- Fabric, Textile. C. H. Ritscher. No. 47,546; July 6; Gaz. vol. 216; p. 320.
- Fabric, Woven. J. E. Jagger. No. 46,833; Jan. 5; Gaz. vol. 210; p. 371.
- Face spanner-wrench. C. A. Martin. No. 47,855; Sept. 21; Gaz. vol. 218; p. 860.
- Fan. M. A. Joslin. No. 47,536; July 6; Gaz. vol. 216; p. 318.
- Fan, Base and standard of a motor-driven. W. J. H. Strong. No. 48,206; Nov. 23; Gaz. vol. 220; p. 1349.
- Fan, Base of a motor-driven. W. J. H. Strong. Nos. 48,204-5; Nov. 23; Gaz. vol. 220; p. 1348.
- Fan frame, Engine-driven-. W. J. H. Strong. No. 48,016; Oct. 19; Gaz. vol. 219; p. 892.
- Fan frame, Engine-driven-. W. J. H. Strong. No. 48,089; Nov. 2; Gaz. vol. 220; p. 334.
- Fan frame, Motor-driven-. L. D. Freeland. No. 47,783; Sept. 7; Gaz. vol. 218; p. 289.
- Fans, Base and standard of motor-driven. W. J. H. Strong. Nos. 47,901-2; Sept. 28; Gaz. vol. 218; p. 1139.
- Fans, Base for motor-driven. W. J. H. Strong. No. 47,900; Sept. 28; Gaz. vol. 218; p. 1139.
- Fans, Base for motor-driven. W. J. H. Strong. No. 47,903; Sept. 28; Gaz. vol. 218; p. 1139.
- Fans, Frame for engine-driven. L. D. Freeland. No. 47,879; Sept. 28; Gaz. vol. 218; p. 1135.
- Faucet, Fountain-. C. L. Scott. No. 47,475; June 15; Gaz. vol. 215; p. 970.
- Feed-bag for horses. J. H. Hucke, Jr. No. 47,519; June 29; Gaz. vol. 215; p. 1490.
- Fence. M. Lachman. Nos. 47,110-13; Mar. 16; Gaz. vol. 212; pp. 1027-8.
- Fence-panel. G. W. Miller and E. S. George. Nos. 47,005-6; Feb. 23; Gaz. vol. 211; p. 1238.
- Fender, Front. R. J. Myers. No. 47,340; May 11; Gaz. vol. 214; p. 659.
- File, Flesh-. N. E. Sibley. No. 46,976; Feb. 16; Gaz. vol. 211; p. 939.
- Filter. J. F. Stocking. No. 47,970; Oct. 12; Gaz. vol. 219; p. 572.
- Fire-extinguisher casing. R. S. Hickish. Nos. 47,299-300; May 4; Gaz. vol. 214; p. 318.
- Fireplace. H. J. Groth. No. 47,243; Apr. 20; Gaz. vol. 213; p. 1088.
- Flash-light, Pocket. H. M. Koretzky. No. 47,870; Sept. 21; Gaz. vol. 218; p. 863.
- Flask. J. O. Ludwig. No. 47,795; Sept. 7; Gaz. vol. 218; p. 291.
- Flower and plant holder. K. Booth. No. 48,149; Nov. 16; Gaz. vol. 220; p. 1011.
- Flower and plant holder. K. Booth. No. 48,239; Dec. 7; Gaz. vol. 221; p. 317.
- Flower-holder. A. J. Bennett. No. 48,166; Nov. 23; Gaz. vol. 220; p. 1341.
- Flower-pot holder. H. Molke, Jr. No. 48,355; Dec. 28; Gaz. vol. 221; p. 1425.
- Flush-tank. A. J. Podmore. No. 47,611; July 20; Gaz. vol. 216; p. 1001.
- Fly-catcher. J. Liska. No. 48,186; Nov. 23; Gaz. vol. 220; p. 1345.
- Fob. J. E. Price. No. 47,145; Mar. 23; Gaz. vol. 212; p. 1329.
- Folding stand. C. W. Smith. No. 47,742; Aug. 17; Gaz. vol. 217; p. 1012.
- Food warmer, Baby-. F. Kuhn and F. E. Shailor. No. 47,698; Aug. 10; Gaz. vol. 217; p. 654.
- Force-cup and cleaner, Combined. L. O. Howell. Nos. 46,996-7; Feb. 23; Gaz. vol. 211; p. 1236.
- Forks, spoons, or similar articles, Handle for. T. B. Lashar. No. 48,281; Dec. 14; Gaz. vol. 221; p. 707.
- Frame. P. E. Whitson. No. 47,127; Mar. 16; Gaz. vol. 212; p. 1030.
- Furnace for melting type-metal. I. Hall. No. 47,592; July 20; Gaz. vol. 216; p. 998.
- Furniture leg, Store-. M. Taussig. No. 47,937; Oct. 5; Gaz. vol. 219; p. 257.
- Gage-case. H. H. Boyce. No. 47,773; Aug. 31; Gaz. vol. 217; p. 1645.
- Game-board. J. Barringham. No. 48,301; Dec. 21; Gaz. vol. 221; p. 1011.
- Game-board. F. J. Claveloux. No. 46,943; Feb. 16; Gaz. vol. 211; p. 932.
- Game-board. J. O. Gendron. No. 47,184; Apr. 6; Gaz. vol. 213; p. 326.
- Game-board. H. C. Hazzard. No. 47,487; June 22; Gaz. vol. 215; p. 1251.
- Game-board. C. A. Hughes. No. 46,853; Jan. 12; Gaz. vol. 210; p. 692.
- Game-board. J. B. Ingalls. No. 47,563; July 13; Gaz. vol. 216; p. 654.
- Game-board. D. H. Wiggins. No. 47,370; May 18; Gaz. vol. 214; p. 1002.
- Game-board. D. H. Wiggins. No. 47,637; July 20; Gaz. vol. 216; p. 1006.
- Game, Playing-track of a board. G. S. Parker. No. 48,008; Oct. 19; Gaz. vol. 219; p. 891.
- Garment-hanger. E. J. Langley and E. Foley. No. 48,067; Nov. 2; Gaz. vol. 220; p. 330.
- Garter. G. B. Glidden. No. 47,486; June 22; Gaz. vol. 215; p. 1251.
- Garter. M. B. Hammond. No. 47,999; Oct. 19; Gaz. vol. 219; p. 889.
- Garter. D. E. Latham. No. 48,068; Nov. 2; Gaz. vol. 220; p. 330.
- Garter. C. J. White. No. 48,138; Nov. 9; Gaz. vol. 220; p. 643.
- Gas and electric fixtures, Canopy for. J. F. Andrews. No. 47,769; Aug. 31; Gaz. vol. 217; p. 1644.
- Gas-cocks or the like, Key for. H. Hultgren. Nos. 47,325-7; May 11; Gaz. vol. 214; pp. 656-7.
- Gas-plate frame. G. E. Pickup. No. 47,197; Apr. 6; Gaz. vol. 213; p. 329.
- Gate for children's fences. G. M. Quackenbush. No. 47,472; June 15; Gaz. vol. 215; p. 969.
- Gear-case. C. F. Karberg. No. 47,429; June 8; Gaz. vol. 215; p. 639.
- Gem, Cut. E. B. Shepard. Nos. 47,510-11; June 22; Gaz. vol. 215; pp. 1255-6.
- Gem-setting. L. E. Ladd. No. 47,245; Apr. 20; Gaz. vol. 213; p. 1089.
- Glass and cream-glass holder, Combined water-. J. P. Gadle, Jr. No. 47,750; Aug. 24; Gaz. vol. 217; p. 1317.
- Glass bowl. M. Schaffer. No. 47,652; July 27; Gaz. vol. 216; p. 1310.
- Glass bowl. M. Schaffer. No. 48,046; Oct. 26; Gaz. vol. 219; p. 1212.
- Glass dish. A. J. Sanford. No. 47,118; Mar. 16; Gaz. vol. 212; p. 1029.
- Glass dish, Cut-. C. Levin. No. 48,117; Nov. 9; Gaz. vol. 220; p. 640.
- Glass, Drinking-. F. E. Anderson. No. 47,354; May 18; Gaz. vol. 214; p. 999.
- Glass jar. A. J. Sanford. No. 46,870; Jan. 19; Gaz. vol. 210; p. 1044.
- Glass light-shade. K. Booth. No. 47,907; Oct. 5; Gaz. vol. 219; p. 252.
- Glass, Piece of. P. Ebeling. No. 47,284; May 4; Gaz. vol. 214; p. 316.
- Glass, Rolled. T. M. Farmiloe. No. 46,896; Feb. 2; Gaz. vol. 211; p. 253.
- Glass vessel. P. Ebeling. No. 47,102; Mar. 16; Gaz. vol. 212; p. 1026.
- Glass vessel. R. Haley. No. 47,693; Aug. 10; Gaz. vol. 217; p. 653.
- Glass vessel. G. G. Wilmarth. No. 47,352; May 11; Gaz. vol. 214; p. 661.
- Glass vessel or similar article. E. M. Bottome. Nos. 47,449-51; June 15; Gaz. vol. 215; p. 965.
- Glass vessel or similar article. T. B. Campbell. No. 47,151; Mar. 30; Gaz. vol. 212; p. 1659.
- Glass vessel or similar article. P. Ebeling. No. 47,285; May 4; Gaz. vol. 214; p. 316.
- Glass vessel or similar article. P. Ebeling. No. 47,455; June 15; Gaz. vol. 215; p. 966.
- Glass vessel or similar article. R. Haley. No. 47,721; Aug. 17; Gaz. vol. 217; p. 1008.
- Glass vessel or similar article. D. F. Provance. No. 48,081; Nov. 2; Gaz. vol. 220; p. 332.

- Glass vessel or similar article. C. L. Sullivan. No. 46,918; Feb. 2; Gaz. vol. 211; p. 257.
- Glass vessel or similar article. C. L. Sullivan. No. 47,632; July 20; Gaz. vol. 216; p. 1005.
- Globe. W. F. M. Hawe. No. 46,994; Feb. 23; Gaz. vol. 211; p. 1236.
- Glove. H. A. Taylor. Nos. 48,334-5; Dec. 21; Gaz. vol. 221; p. 1018.
- Goblet. J. D. Blaze. No. 47,684; Aug. 10; Gaz. vol. 217; p. 652.
- Goblet, Footed. A. J. Bennett. No. 47,639; July 27; Gaz. vol. 216; p. 1307.
- Goggles, Pair of. H. E. Fenno. No. 47,916; Oct. 5; Gaz. vol. 219; p. 253.
- Golf-tee. H. Abert. No. 47,942; Oct. 12; Gaz. vol. 219; p. 566.
- Grace-prayer holder. J. H. Garrity. No. 47,133; Mar. 23; Gaz. vol. 212; p. 1327.
- Grave-marker. W. J. Logan. Nos. 47,887-8; Sept. 28; Gaz. vol. 218; pp. 1136-7.
- Grave-marker. W. J. Logan. No. 48,187; Nov. 23; Gaz. vol. 220; p. 1345.
- Grease-cup and oiler. J. D. Corcoran. No. 47,845; Sept. 21; Gaz. vol. 218; p. 858.
- Grocery-bin. J. S. Reaves and J. G. Wells. No. 47,806; Sept. 7; Gaz. vol. 218; p. 293.
- Grocery-bin. N. J. Weber. No. 47,974; Oct. 12; Gaz. vol. 219; p. 572.
- Gum, Candy-coated chewing. M. M. Swaab, Jr. No. 47,083; Mar. 9; Gaz. vol. 212; p. 671.
- Hair-fastener. G. A. Gleeson. No. 47,950; Oct. 12; Gaz. vol. 219; p. 568.
- Hair ornament. A. L. Preston. No. 47,198; Apr. 6; Gaz. vol. 213; p. 329.
- Hair-pin. M. C. Stone. No. 47,971; Oct. 12; Gaz. vol. 219; p. 572.
- Hair-pin. M. M. Strickler. No. 48,088; Nov. 2; Gaz. vol. 220; p. 334.
- Hair-pin. M. M. Strickler. No. 48,162; Nov. 16; Gaz. vol. 220; p. 1014.
- Hames, Attaching-plate for. W. H. Rottger. No. 47,967; Oct. 12; Gaz. vol. 219; p. 571.
- Hammer. A. J. Thompson. No. 47,124; Mar. 16; Gaz. vol. 212; p. 1030.
- Hammer, Tinner's. E. E. Kretschmar. No. 46,882; Jan. 26; Gaz. vol. 210; p. 1350.
- Hammer, Window-trimmer's. J. M. Walters. No. 47,906; Sept. 28; Gaz. vol. 218; p. 1140.
- Hand-bag. L. A. Samstag. No. 47,968; Oct. 12; Gaz. vol. 219; p. 571.
- Hand-bag or similar article. H. Margolin. No. 47,824; Sept. 14; Gaz. vol. 218; p. 581.
- Hand-hole plate. E. C. Meier. No. 47,468; June 15; Gaz. vol. 215; p. 968.
- Hand-hole plate. E. C. Meier. No. 47,931; Oct. 5; Gaz. vol. 219; p. 256.
- Hand-hole yoke. E. C. Meier. No. 47,753; Aug. 24; Gaz. vol. 217; p. 1317.
- Handle. F. S. Dickinson. No. 47,034; Mar. 2; Gaz. vol. 212; p. 301.
- Handle. A. F. Schroeder. No. 47,082; Mar. 9; Gaz. vol. 212; p. 671.
- Handle. A. K. Ternstedt. No. 47,058; Mar. 2; Gaz. vol. 212; p. 306.
- Harness ornament. A. Albright, Jr. No. 47,943; Oct. 12; Gaz. vol. 219; p. 566.
- Hat. W. Edson. Nos. 48,346-7; Dec. 28; Gaz. vol. 221; p. 1423.
- Hat. L. Galitzki, Jr. No. 48,246; Dec. 7; Gaz. vol. 221; p. 318.
- Hat-fastener. W. J. Lewis. No. 47,853; Sept. 21; Gaz. vol. 218; p. 860.
- Hat, Outing and sport. F. Oldendorf. No. 47,544; July 6; Gaz. vol. 216; p. 319.
- Hat-pin, button, cuff-link, or similar article of jewelry. J. H. Price. No. 48,080; Nov. 2; Gaz. vol. 220; p. 332.
- Hat-pin guard. J. Chalupsky. No. 47,027; Mar. 2; Gaz. vol. 212; p. 300.
- Hat-rack. J. Fetzner. No. 47,359; May 18; Gaz. vol. 214; p. 1000.
- Heater-casing. A. H. Koch. No. 47,600; July 20; Gaz. vol. 216; p. 999.
- Heating device. L. F. Parkhurst. No. 48,123; Nov. 9; Gaz. vol. 220; p. 641.
- Heel-pad for footwear, Rubber. W. W. Phillips. No. 48,042; Oct. 26; Gaz. vol. 219; p. 1211.
- Hinge. W. W. Wood. No. 47,353; May 11; Gaz. vol. 214; p. 661.
- Hinge for refrigerators. H. C. Leonard. No. 47,000; Feb. 23; Gaz. vol. 211; p. 1237.
- Hoe-blade. L. A. Tyson. No. 48,090; Nov. 2; Gaz. vol. 220; p. 334.
- Hook. F. S. King. No. 48,116; Nov. 9; Gaz. vol. 220; p. 640.
- Hose, Rubber. E. J. Coughlin. No. 46,944; Feb. 16; Gaz. vol. 211; p. 933.
- Hose spraying device, Lawn. A. Thompson. No. 48,137; Nov. 9; Gaz. vol. 220; p. 643.
- Hose-washer. E. F. J. Breuer. No. 47,989; Oct. 19; Gaz. vol. 219; p. 888.
- Hose-washer. R. Mueller. No. 48,004; Oct. 19; Gaz. vol. 219; p. 890.
- Hub-cap, Vehicle. J. W. Drake. No. 47,070; Mar. 9; Gaz. vol. 212; p. 669.
- Ice-cream cone. P. D. Roberts. No. 47,436; June 8; Gaz. vol. 215; p. 640.
- Ice-cream-cone server. M. Levin. No. 47,001; Feb. 23; Gaz. vol. 211; p. 1237.
- Image. A. G. Newmyer. No. 47,542; July 6; Gaz. vol. 216; p. 319.
- Implement, Hand. M. A. Ladd. No. 47,263; Apr. 27; Gaz. vol. 213; p. 1414.
- Incense-burner. S. Teshima. No. 48,209; Nov. 23; Gaz. vol. 220; p. 1349.
- Ink-well. E. R. Carnahan. No. 47,026; Mar. 2; Gaz. vol. 212; p. 300.
- Ink-well, pincushion, and pen-rack, Combined. J. H. Kulow. Nos. 47,160-1; Mar. 30; Gaz. vol. 212; p. 1661.
- Inkstand. B. Ota. No. 46,856; Jan. 12; Gaz. vol. 210; p. 693.
- Inkstand. F. A. Weeks. No. 48,091; Nov. 2; Gaz. vol. 220; p. 334.
- Insulator. A. O. Austin. No. 47,208; Apr. 13; Gaz. vol. 213; p. 717.
- Insulator. R. A. Clapper. No. 46,862; Jan. 19; Gaz. vol. 210; p. 1043.
- Insulator-body for trolley-wire hangers. A. L. Fox. No. 48,174; Nov. 23; Gaz. vol. 220; p. 1342.
- Jacket. H. V. Metzger and H. Von Hartz. No. 47,264; Apr. 13; Gaz. vol. 213; p. 1414.
- Jar, Dispensing. A. C. Crimmel. No. 48,060; Nov. 2; Gaz. vol. 220; p. 328.
- Jar, Mustard. G. S. Jenkins. No. 47,696; Aug. 10; Gaz. vol. 217; p. 654.
- Jar-opener. A. Holden. No. 46,983; Feb. 16; Gaz. vol. 211; p. 941.
- Jar or bottle. C. Heisey. No. 46,864; Jan. 19; Gaz. vol. 210; p. 1043.
- Jardinière-stand and tree-support, Combined. J. W. Vanamburgh. No. 47,766; Aug. 24; Gaz. vol. 217; p. 1319.
- Jewelry-gallery. L. E. Ladd. Nos. 47,400-2; June 1; Gaz. vol. 215; p. 293.
- Jewelry-ring. H. H. Lott. Nos. 48,074-5; Nov. 2; Gaz. vol. 220; p. 331.
- Kettle-cleaner. H. H. Campbell. No. 46,895; Feb. 2; Gaz. vol. 211; p. 252.
- Key-holder and cork-puller, Combined. A. Wakao. No. 46,935; Feb. 9; Gaz. vol. 211; p. 612.
- Kitchen-indicator. A. Wilson. No. 48,052; Oct. 26; Gaz. vol. 219; p. 1212.
- Kitchen utensil. J. L. Sommer. No. 47,016; Feb. 23; Gaz. vol. 211; p. 1240.
- Knife. P. Korpa. No. 47,697; Aug. 10; Gaz. vol. 217; p. 654.
- Knife and fork, Combined. A. W. Cox. No. 48,103; Nov. 9; Gaz. vol. 220; p. 637.
- Knife blade, Grape-fruit and orange. D. F. Alvord. No. 48,236; Nov. 30; Gaz. vol. 220; p. 1700.
- Knife for table use and other purposes. A. W. Cox. No. 47,586; July 20; Gaz. vol. 216; p. 997.
- Knife, fork, spoon, and toothpick, Combination. V. M. Villemain. No. 47,443; June 8; Gaz. vol. 215; p. 641.
- Knife, Grape-fruit. C. F. Smith. No. 48,202; Nov. 23; Gaz. vol. 220; p. 1348.
- Knob, Glass. W. F. Burns. Nos. 47,068-9; Mar. 9; Gaz. vol. 212; p. 669.
- Knob, Glass. W. F. Burns. No. 47,254; Apr. 27; Gaz. vol. 213; p. 1412.
- Knocker, Door. A. R. Page. Nos. 47,194-5; Apr. 6; Gaz. vol. 213; p. 328.
- Label. O. E. Cloud. No. 48,242; Dec. 7; Gaz. vol. 221; p. 317.
- Lace. M. A. Haldeman. Nos. 47,293-7; May 4; Gaz. vol. 214; pp. 317-18.
- Lace doily. E. Karfiol. Nos. 48,113-5; Nov. 9; Gaz. vol. 220; p. 639.
- Lace edging. S. N. Goodman. No. 47,291; May 4; Gaz. vol. 214; p. 317.
- Lace edging. D. Jarvis, Jr. No. 47,491; June 22; Gaz. vol. 215; p. 1252.
- Lace edging. C. Strickhouser. Nos. 47,764-5; Aug. 24; Gaz. vol. 217; p. 1319.
- Lace, Embroidered. H. Schwarber. No. 48,085; Nov. 2; Gaz. vol. 220; p. 333.
- Lace, Embroidered. H. Schwarber. No. 48,266; Dec. 7; Gaz. vol. 221; p. 322.
- Lace fabric. E. J. Ozzanne. Nos. 47,825-6; Sept. 14; Gaz. vol. 218; pp. 581-2.
- Lace, Levers. C. W. Birkin. Nos. 47,212-15; Apr. 13; Gaz. vol. 213; p. 718.
- Lace, Levers. R. L. Birkin. Nos. 47,807-10; Sept. 14; Gaz. vol. 218; pp. 578-9.
- Laces, Tlp for. F. Wiberley. No. 47,551; July 6; Gaz. vol. 216; p. 320.
- Lamp. J. S. Green. No. 47,816; Sept. 14; Gaz. vol. 218; p. 580.
- Lamp. D. D. King. No. 47,925; Oct. 5; Gaz. vol. 219; p. 255.
- Lamp. J. R. Pagin. No. 47,196; Apr. 6; Gaz. vol. 213; p. 329.
- Lamp and stand, Electric. F. X. Chassaing. No. 46,922; Feb. 9; Gaz. vol. 211; p. 609.

Alphabetical list of designs—Continued.

- Lamp, Automobile-. D. H. Elkins. No. 47,915; Oct. 5; Gaz. vol. 219; p. 253.
- Lamp, Automobile-. L. M. Giroux. No. 48,176; Nov. 23; Gaz. vol. 220; p. 1343.
- Lamp body, Acetylene-. A. L. Hansen. No. 46,905; Feb. 2; Gaz. vol. 211; p. 255.
- Lamp, Body for a pendant or similar. B. Schwartzman. No. 48,284; Dec. 14; Gaz. vol. 221; p. 707.
- Lamp-bowl. W. F. M. Hawe. No. 47,227; Apr. 13; Gaz. vol. 213; p. 720.
- Lamp-box. F. C. Hansel. No. 47,848; Sept. 21; Gaz. vol. 218; p. 859.
- Lamp-bracket. H. E. Sheward. No. 48,132; Nov. 9; Gaz. vol. 220; p. 642.
- Lamp, Candle-. M. H. Burger. No. 47,483; June 22; Gaz. vol. 215; p. 1251.
- Lamp-chimney. A. Jenkins. No. 47,301; May 4; Gaz. vol. 214; p. 318.
- Lamp, Electric. J. J. Ashworth. No. 47,530; July 6; Gaz. vol. 216; p. 317.
- Lamp fixture, Electric-light hanging-. F. C. Baker. No. 47,982; Oct. 19; Gaz. vol. 219; p. 886.
- Lamp, Gas-. C. A. Campbell. No. 48,240; Dec. 7; Gaz. vol. 221; p. 317.
- Lamp-globe. J. L. Dawes. No. 47,747; Aug. 24; Gaz. vol. 217; p. 1316.
- Lamp-globe. W. F. M. Hawe. No. 47,155; Mar. 30; Gaz. vol. 212; p. 1660.
- Lamp globe, Electric-. B. W. Long. No. 46,952; Feb. 16; Gaz. vol. 211; p. 934.
- Lamp housing, Gas-. J. Lederer. No. 47,080; Mar. 9; Gaz. vol. 212; p. 671.
- Lamp, Incandescent electric. A. Bouchery. No. 47,217; Apr. 13; Gaz. vol. 213; p. 719.
- Lamp, Miner's acetylene-. A. L. Hansen. No. 48,109; Nov. 9; Gaz. vol. 220; p. 638.
- Lamp, Portable electric. J. T. Janette. No. 48,224; Nov. 30; Gaz. vol. 220; p. 1697.
- Lamp, Portable electric. H. A. Jennings. No. 46,881; Jan. 26; Gaz. vol. 210; p. 1350.
- Lamp-reflector. P. M. Hotchkiss. No. 47,136; Mar. 9; Gaz. vol. 212; p. 1327.
- Lamp-shade. J. Beiswanger. No. 47,321; May 11; Gaz. vol. 214; p. 656.
- Lamp-shade. R. G. Dickson. No. 47,220; Apr. 13; Gaz. vol. 213; p. 719.
- Lamp-shade. W. L. Franks. No. 47,153; Mar. 30; Gaz. vol. 212; p. 1659.
- Lamp-shade. I. T. Frary. No. 48,153; Nov. 16; Gaz. vol. 220; p. 1012.
- Lamp-shade. E. F. Guth. No. 47,918; Oct. 5; Gaz. vol. 219; p. 254.
- Lamp-shade. E. C. Herrmann. No. 46,819; Jan. 5; Gaz. vol. 210; p. 368.
- Lamp-shade. E. C. Herrmann. No. 47,186; Apr. 6; Gaz. vol. 213; p. 327.
- Lamp-shade. G. C. Lynch. No. 47,646; July 27; Gaz. vol. 216; p. 1309.
- Lamp-shade. G. C. Lynch. No. 48,228; Nov. 30; Gaz. vol. 220; p. 1698.
- Lamp-shade. L. W. Young. No. 47,280; Apr. 27; Gaz. vol. 213; p. 1417.
- Lamp-shade, Glass. K. Booth. No. 48,148; Nov. 16; Gaz. vol. 220; p. 1011.
- Lamp shade, Incandescent-. L. A. Kelley. No. 48,157; Nov. 16; Gaz. vol. 220; p. 1012.
- Lamp shade or reflector. F. L. Grant. No. 48,107; Nov. 9; Gaz. vol. 220; p. 638.
- Lamp-sign. D. J. Creeden. No. 47,532; July 6; Gaz. vol. 216; p. 317.
- Lamp, signal, and tray, Combined table-. J. E. Erickson. No. 47,814; Sept. 14; Gaz. vol. 218; p. 579.
- Lamp socket, Electric-. F. P. Gates. No. 48,028; Oct. 26; Gaz. vol. 219; p. 1208.
- Lamp socket, Electric-. T. O'Donnell. No. 48,252; Dec. 7; Gaz. vol. 221; p. 319.
- Lamps, Combination burner and shade-holder for hydrocarbon-. L. Baxter. No. 46,891; Feb. 2; Gaz. vol. 211; p. 252.
- Lamps, Glass blank for portable electric. R. S. Giese. No. 46,928; Feb. 9; Gaz. vol. 211; p. 610.
- Lantern. O. E. Hill. No. 48,031; Oct. 26; Gaz. vol. 219; p. 1209.
- Lantern, Battery hand-. C. F. Burgess. No. 48,059; Nov. 2; Gaz. vol. 220; p. 328.
- Lantern, Hydrocarbon-. L. Baxter. No. 47,770; Aug. 31; Gaz. vol. 217; p. 1644.
- Lavallière. S. A. Katibah. No. 47,520; June 29; Gaz. vol. 215; p. 1490.
- Lavatory-fitting. J. H. Glauber. No. 46,946; Feb. 16; Gaz. vol. 211; p. 933.
- Leather. C. Brandt. Nos. 47,066-7; Mar. 9; Gaz. vol. 212; p. 669.
- Lemon-squeezer frame. C. Morgan. No. 47,932; Oct. 5; Gaz. vol. 219; p. 256.
- Lens-strap. W. R. Uhlemann. No. 47,638; July 20; Gaz. vol. 216; p. 1006.
- Letter, Sign-. H. H. Jacobowitz. No. 47,426; June 8; Gaz. vol. 215; p. 638.
- Light, Ceiling-. L. W. Andersen. No. 48,053; Nov. 2; Gaz. vol. 220; p. 327.
- Light-reflecting-bowl hanger. C. E. Jones. No. 47,596; July 20; Gaz. vol. 216; p. 999.
- Light-reflecting-bowl hanger. W. E. Surface. No. 48,207; Nov. 23; Gaz. vol. 220; p. 1349.
- Light-reflecting bowls, Hanger for. R. E. Ewing. No. 47,688; Aug. 10; Gaz. vol. 217; p. 652.
- Light-reflecting bowls, Hanger for. M. Herskovitz. No. 48,280; Dec. 14; Gaz. vol. 221; p. 706.
- Light-reflecting bowls, Hanger for. M. Herskovitz. No. 48,318; Dec. 21; Gaz. vol. 221; p. 1015.
- Light-reflecting bowls, Hanger for. C. E. Jones. Nos. 47,921-3; Oct. 5; Gaz. vol. 219; pp. 254-5.
- Light-reflecting bowls, Hanger for. N. Kopp and R. E. Ewing. No. 47,138; Mar. 23; Gaz. vol. 212; p. 1328.
- Light-reflecting bowls, Hanger for. J. M. White. No. 47,705; Aug. 10; Gaz. vol. 217; p. 655.
- Light-reflecting bowls, Ribbon-clamp for. C. E. Jones. No. 48,155; Nov. 16; Gaz. vol. 220; p. 1012.
- Lighting, Bowl for indirect. P. Mohrmann. No. 47,271; Apr. 27; Gaz. vol. 212; p. 1416.
- Lighting-fixture. H. C. Adam. No. 48,094; Nov. 9; Gaz. vol. 220; p. 636.
- Lighting-fixture. H. C. Adam. Nos. 48,141-6; Nov. 16; Gaz. vol. 220; p. 1010.
- Lighting-fixture. G. M. Beardslee and I. L. French. No. 46,939; Feb. 16; Gaz. vol. 211; p. 932.
- Lighting-fixture. R. B. Benjamin. No. 47,531; July 6; Gaz. vol. 216; p. 317.
- Lighting-fixture. A. Bouchery. No. 47,218; Apr. 13; Gaz. vol. 213; p. 719.
- Lighting-fixture. J. Chassaing. No. 47,991; Oct. 19; Gaz. vol. 219; p. 888.
- Lighting-fixture. H. E. Gleason. Nos. 46,874-7; Jan. 26; Gaz. vol. 210; pp. 1348-9.
- Lighting-fixture. H. E. Gleason. No. 47,225; Apr. 13; Gaz. vol. 213; p. 720.
- Lighting-fixture. E. F. Guth. No. 47,324; May 11; Gaz. vol. 214; p. 656.
- Lighting-fixture. E. F. Guth. Nos. 48,278-9; Dec. 14; Gaz. vol. 221; p. 706.
- Lighting-fixture. E. F. Guth and R. V. Owen. No. 47,589; July 20; Gaz. vol. 216; p. 998.
- Lighting-fixture. E. F. Guth and R. V. Owen. No. 47,997; Oct. 19; Gaz. vol. 219; p. 889.
- Lighting-fixture. R. V. Owen. Nos. 47,607-8; July 20; Gaz. vol. 216; p. 1001.
- Lighting-fixture. H. Pickhardt. Nos. 46,964-6; Feb. 16; Gaz. vol. 211; p. 937.
- Lighting-fixture. H. Pickhardt. No. 47,934; Oct. 5; Gaz. vol. 219; p. 257.
- Lighting-fixture. J. D. Raymond. No. 48,082; Nov. 2; Gaz. vol. 220; p. 332.
- Lighting-fixture. A. W. Reiser. No. 48,084; Nov. 2; Gaz. vol. 220; p. 333.
- Lighting-fixture. D. Woodhead. No. 47,677; Aug. 3; Gaz. vol. 217; p. 245.
- Lighting-fixture. L. W. Young. No. 46,936; Feb. 9; Gaz. vol. 211; p. 612.
- Lighting-fixture back plate. P. Mohrmann. No. 47,273; Apr. 27; Gaz. vol. 213; p. 1416.
- Lighting-fixture back plate. P. Mohrmann. No. 47,275; Apr. 27; Gaz. vol. 213; p. 1417.
- Lighting-fixture back plate. H. F. Voshardt. No. 47,939; Oct. 5; Gaz. vol. 219; p. 258.
- Lighting-fixture bowl. H. C. Adam. No. 48,147; Nov. 16; Gaz. vol. 220; p. 1010.
- Lighting-fixture canopy. P. Mohrmann. No. 47,274; Apr. 27; Gaz. vol. 213; p. 1416.
- Lighting-fixture ornament, Tassel-pendant for. C. E. Jones. No. 48,156; Nov. 16; Gaz. vol. 220; p. 1012.
- Lighting-fixture part. P. I. Ansonge. Nos. 47,316-20; May 11; Gaz. vol. 214; p. 655.
- Lighting-fixture part. P. I. Ansonge. Nos. 47,682-3; Aug. 10; Gaz. vol. 217; p. 651.
- Lighting-fixture shell. A. E. Tepfer. No. 48,136; Nov. 9; Gaz. vol. 220; p. 643.
- Lighting-fixture shower-plate. P. Mohrmann. No. 47,604; July 20; Gaz. vol. 216; p. 1000.
- Lighting fixture, Street-. O. H. Mohr. No. 46,955; Feb. 16; Gaz. vol. 211; p. 935.
- Lighting-fixture, Back plate for. P. Mohrmann. No. 47,540; July 6; Gaz. vol. 216; p. 319.
- Lighting-fixture, Back plate for. B. Schwartzman. No. 48,286; Dec. 14; Gaz. vol. 221; p. 708.
- Lighting-fixture, Back plate for. B. Schwartzman. No. 48,291; Dec. 14; Gaz. vol. 221; p. 708.
- Lighting-fixture, Bowl for. V. S. Pearlman. Nos. 47,756-8; Aug. 24; Gaz. vol. 217; p. 1318.
- Lighting-fixture, Canopy for. B. Schwartzman. No. 48,292; Dec. 14; Gaz. vol. 221; p. 708.
- Lighting-fixture, Canopy for. B. Schwartzman. No. 48,294; Dec. 14; Gaz. vol. 221; p. 709.
- Lighting-fixture, Glass bowl for. A. W. Reiser. No. 48,083; Nov. 2; Gaz. vol. 220; p. 333.
- Lighting-fixture, Shell for. A. E. Tepfer. No. 47,173; Mar. 30; Gaz. vol. 212; p. 1663.
- Lighting-fixture, Shell for. A. E. Tepfer. No. 47,349; May 11; Gaz. vol. 214; p. 660.
- Lighting-fixture, Shell for. S. Tepfer. No. 48,163; Nov. 16; Gaz. vol. 220; p. 1014.
- Lighting-fixture, Shower-pan for. B. E. Holton. No. 47,244; Apr. 20; Gaz. vol. 213; p. 1088.

- Lighting-fixtures, Shower-pan for. E. Mitchell. No. 47,266; Apr. 27; Gaz. vol. 213; p. 1415.
- Lighting-fixtures, Shower-pan for. P. Mohrmann. No. 47,249; Apr. 20; Gaz. vol. 213; p. 1089.
- Lighting-fixtures, Shower-pan for. P. Mohrmann. Nos. 47,267-70; Apr. 27; Gaz. vol. 213; pp. 1415-16.
- Lighting-fixtures, Shower-pan for. P. Mohrmann. No. 47,339; May 11; Gaz. vol. 214; p. 659.
- Lighting-fixtures, Shower-plate for. P. Mohrmann. No. 47,670; Aug. 3; Gaz. vol. 217; p. 244.
- Lighting-fixtures, Shower-plate for. B. Schwartzman. No. 48,285; Dec. 14; Gaz. vol. 221; p. 707.
- Lighting-fixtures, Shower-plate for. B. Schwartzman. Nos. 48,288-90; Dec. 14; Gaz. vol. 221; p. 708.
- Lighting-fixtures, Shower-plate for. B. Schwartzman. No. 48,295; Dec. 14; Gaz. vol. 221; p. 709.
- Lighting-fixtures, Shower-plate for. H. F. Voshardt. Nos. 47,633-4; July 20; Gaz. vol. 216; pp. 1005-6.
- Lighting-fixtures, Socket-cover for. B. Schwartzman. No. 48,287; Dec. 14; Gaz. vol. 221; p. 708.
- Lighting-fixtures, Socket-cover for. B. Schwartzman. No. 48,293; Dec. 14; Gaz. vol. 221; p. 709.
- Lighting-fixtures, Socket-cover for. G. M. Tepfer. No. 47,973; Oct. 12; Gaz. vol. 219; p. 572.
- Lighting-standard. E. D. Allen. No. 46,985; Feb. 23; Gaz. vol. 211; p. 1234.
- Lighting, Support for bowls for indirect. P. Mohrmann. No. 47,272; Apr. 27; Gaz. vol. 213; p. 1416.
- Lighting systems, Reflecting-bowl for indirect. J. R. Cravath. No. 48,309; Dec. 21; Gaz. vol. 221; p. 1013.
- Lime-squeezer. E. Walker. No. 48,269; Dec. 7; Gaz. vol. 221; p. 322.
- Linooleum, oil-cloth, or floor-covering. C. F. Humphreys. Nos. 47,328-32; May 11; Gaz. vol. 214; pp. 657-8.
- Linooleum, oil-cloth, or floor-covering. C. M. Post. No. 47,341; May 11; Gaz. vol. 214; p. 659.
- Linooleum, oil-cloth, or floor-covering. M. H. Solms. Nos. 47,345-6; May 11; Gaz. vol. 214; p. 660.
- Liquid-cooler and base. C. H. Boeck. No. 46,894; Feb. 2; Gaz. vol. 211; p. 252.
- Liquid-dispenser. H. G. Cordley. No. 48,022; Oct. 26; Gaz. vol. 219; p. 1208.
- Liquid dispensing and registering apparatus. J. B. Davis. No. 46,813; Jan. 5; Gaz. vol. 210; p. 367.
- Lunch chair, Dairy. H. B. Ruggles. No. 47,897; Sept. 28; Gaz. vol. 218; p. 1138.
- Magnet, Permanent. E. B. Cutten. No. 47,812; Sept. 14; Gaz. vol. 218; p. 579.
- Massage-device body. A. L. Hansen. No. 47,952; Oct. 12; Gaz. vol. 219; p. 568.
- Match-box, Pocket. E. R. Sheppard. No. 47,741; Aug. 17; Gaz. vol. 217; p. 1012.
- Match, cigar, or cigarette case. T. F. Hathaway. No. 46,947; Feb. 16; Gaz. vol. 211; p. 933.
- Match-safe. L. De Reamer. No. 47,774; Aug. 31; Gaz. vol. 217; p. 1645.
- Match-scratcher. E. J. Ryan. No. 47,250; Apr. 20; Gaz. vol. 213; p. 1090.
- Measuring and computing machines, Housing for. W. E. Hosch. No. 48,248; Dec. 7; Gaz. vol. 221; p. 319.
- Meat-tenderer. J. F. Colley. No. 48,170; Nov. 23; Gaz. vol. 220; p. 1342.
- Medallion, badge, watch-fob, or similar article. S. N. Acker. Nos. 47,480-1; June 22; Gaz. vol. 215; p. 1250.
- Medallion, badge, watch-fob, watch-charm, ring, scarf-pin, brooch, button, or similar article of jewelry. F. A. Berry. No. 47,983; Oct. 19; Gaz. vol. 219; p. 886.
- Medallion or similar article. D. Fried. No. 47,154; Mar. 30; Gaz. vol. 212; p. 1659.
- Medallion or similar article. A. C. Guinli. No. 48,222; Nov. 30; Gaz. vol. 220; p. 1697.
- Medallion or similar article of jewelry. G. Karabatos. No. 47,383; May 25; Gaz. vol. 214; p. 1294.
- Menn-holder. J. Peterson. No. 48,079; Nov. 2; Gaz. vol. 220; p. 332.
- Metal molding, Ornamental. W. H. Heulings, Jr. Nos. 47,723-30; Aug. 17; Gaz. vol. 217; pp. 1009-10.
- Metallic band or border. E. L. White. No. 47,838; Sept. 14; Gaz. vol. 218; p. 583.
- Metallic band or border. E. L. White. No. 47,940; Oct. 5; Gaz. vol. 219; p. 258.
- Minnow-trap. P. E. Getz. No. 46,993; Feb. 23; Gaz. vol. 211; p. 1235.
- Mirror, brush, or similar toilet article. C. F. Bostock. No. 48,271; Dec. 14; Gaz. vol. 221; p. 705.
- Mirror-frame. F. W. Davenport. No. 48,152; Nov. 16; Gaz. vol. 220; p. 1011.
- Mirror-stand. P. R. Seamon. No. 47,863; Sept. 21; Gaz. vol. 218; p. 862.
- Mirrors, brushes, or similar toilet articles. Back for. G. H. Berry. Nos. 47,578-82; July 20; Gaz. vol. 216; p. 996.
- Molding. A. Janson. No. 47,881; Sept. 28; Gaz. vol. 218; p. 1136.
- Molding, Metal. A. C. Terrell. No. 47,309; May 4; Gaz. vol. 214; p. 320.
- Monument, Grave-protecting. H. B. Weiper. No. 47,444; June 8; Gaz. vol. 215; p. 641.
- Mop. H. L. Feasel. No. 47,035; Mar. 2; Gaz. vol. 212; p. 301.
- Motor-bus. C. Berg. No. 47,211; Apr. 13; Gaz. vol. 213; p. 717.
- Motor-car body. E. N. Howe and H. C. Archambeau. No. 47,233; Apr. 13; Gaz. vol. 213; p. 722.
- Mud-guard and bracket therefor for a motor-cycle or similar device. W. R. Green. No. 47,817; Sept. 14; Gaz. vol. 218; p. 580.
- Mud-guard, Drop side. W. R. Green. No. 47,258; Apr. 27; Gaz. vol. 213; p. 1413.
- Muffer-vest. W. Scheuer. No. 47,653; July 27; Gaz. vol. 216; p. 1310.
- Napkin-dispenser. H. H. and H. J. Marrs. No. 46,911; Feb. 2; Gaz. vol. 211; p. 256.
- Napkin-holder. T. Rosie. No. 48,357; Dec. 28; Gaz. vol. 221; p. 1425.
- Necktie. A. N. Bachrach. No. 47,708; Aug. 17; Gaz. vol. 217; p. 1006.
- Necktie. A. Bennett. No. 47,097; Mar. 16; Gaz. vol. 212; p. 1025.
- Necktie. A. Bennett. No. 47,181; Apr. 6; Gaz. vol. 213; p. 326.
- Nozzle, Suction-cleaner. W. G. Doty. No. 47,063; Mar. 2; Gaz. vol. 212; p. 307.
- Nutracker. B. S. Rosenblatt. No. 47,831; Sept. 14; Gaz. vol. 218; p. 582.
- Ornament, Head. K. M. Guinis and S. D. Vamvas. No. 47,996; Oct. 19; Gaz. vol. 219; p. 889.
- Ornament, Table or mantel. W. Ramsing. No. 47,801; Sept. 7; Gaz. vol. 218; p. 292.
- Package-tie. P. M. Engelhardt. No. 48,273; Dec. 14; Gaz. vol. 221; p. 705.
- Package-tie. H. T. Keel. No. 47,042; Mar. 2; Gaz. vol. 212; p. 302.
- Package-tie. C. S. Waltower. No. 46,849; Jan. 5; Gaz. vol. 210; p. 374.
- Packing-sheet of fibrous material. P. Bendix. No. 46,860; Jan. 19; Gaz. vol. 210; p. 1042.
- Padlock. A. C. Jackson. No. 47,109; Mar. 16; Gaz. vol. 212; p. 1027.
- Padlock. J. F. Lemon. Nos. 47,885-6; Sept. 28; Gaz. vol. 218; p. 1136.
- Padlock. A. A. Page. No. 47,239; Apr. 13; Gaz. vol. 213; p. 723.
- Pan. Z. Armstrong. No. 48,095; Nov. 9; Gaz. vol. 220; p. 636.
- Pan-lifter. W. H. McDonough. No. 47,961; Oct. 12; Gaz. vol. 219; p. 570.
- Panel for children's furniture, bedsteads, fences, and similar toys. G. M. Quackenbush. No. 47,471; June 15; Gaz. vol. 215; p. 969.
- Paper box. L. Rubenstein. No. 46,887; Jan. 26; Gaz. vol. 210; p. 1351.
- Paper box. P. R. Warren. No. 47,574; July 13; Gaz. vol. 216; p. 656.
- Paper-clip. B. B. Goldsmith. No. 47,558; July 13; Gaz. vol. 216; p. 654.
- Paper-cutter or similar article. H. B. Newhall, Jr. No. 46,869; Jan. 19; Gaz. vol. 210; p. 1044.
- Paper-cutter or similar article. W. Speitel. No. 47,392; May 25; Gaz. vol. 214; p. 1296.
- Paper-cutters or similar articles, Handle for. H. W. Pleister. No. 48,124; Nov. 9; Gaz. vol. 220; p. 641.
- Paper display-box. L. Hirschfeld. No. 47,228; Apr. 13; Gaz. vol. 213; p. 720.
- Paper ice-cream plates, Holder for sanitary. B. A. Grasperger. Nos. 47,785-6; Sept. 7; Gaz. vol. 218; p. 290.
- Paper, Ornamented. H. S. Slayter. Nos. 47,832-4; Sept. 14; Gaz. vol. 218; p. 583.
- Paper-roll holder. C. F. Hubbs. No. 47,518; June 29; Gaz. vol. 215; p. 1490.
- Paper-weight, curio, toy figure, or similar article. C. Biesch. No. 47,019; Mar. 2; Gaz. vol. 212; p. 299.
- Parasol. O. M. Arnold. No. 47,179; Apr. 6; Gaz. vol. 213; p. 326.
- Parasol. C. J. Follmer. Nos. 46,989-91; Feb. 23; Gaz. vol. 211; p. 1235.
- Parasol. C. J. Follmer. No. 47,103; Mar. 16; Gaz. vol. 212; p. 1026.
- Parasol. C. J. Follmer. No. 47,690; Aug. 10; Gaz. vol. 217; p. 653.
- Parasol. M. I. Henderson. No. 47,559; July 13; Gaz. vol. 216; p. 654.
- Parasol. C. E. Liedberg. No. 47,246; Apr. 20; Gaz. vol. 213; p. 1089.
- Parasol. J. McNeill. No. 47,164; Mar. 30; Gaz. vol. 212; p. 1662.
- Parasol. J. Rose. No. 47,525; June 29; Gaz. vol. 215; p. 1491.
- Peeling oranges, Device for. O. Hoheisen. No. 46,867; Jan. 19; Gaz. vol. 210; p. 1044.
- Pen and pencil clip. O. Huber. No. 47,595; July 20; Gaz. vol. 216; p. 999.
- Pen holder, Fountain. W. M. Hicks. No. 47,752; Aug. 24; Gaz. vol. 217; p. 1317.
- Pen or pencil clip. S. M. Riker. No. 47,896; Sept. 28; Gaz. vol. 218; p. 1138.
- Penholder. J. H. Kulow. No. 47,794; Sept. 7; Gaz. vol. 218; p. 291.
- Penholder. J. H. Kulow. No. 47,852; Sept. 21; Gaz. vol. 218; p. 860.
- Penholder. J. H. Kulow. No. 48,227; Nov. 30; Gaz. vol. 220; p. 1698.
- Pencil. E. J. Dukes. No. 47,643; July 27; Gaz. vol. 216; p. 1308.

Alphabetical list of designs—Continued.

- Pencil. C. W. Reitler. No. 47,473; June 15; Gaz. vol. 215; p. 969.
- Pencil-casing. D. Wall. No. 47,311; May 4; Gaz. vol. 214; p. 320.
- Pencil-clip. J. P. and K. K. Nielsen. No. 48,326; Dec. 21; Gaz. vol. 221; p. 1016.
- Pencil-container. J. M. Van Alst. No. 47,350; May 11; Gaz. vol. 214; p. 661.
- Pendant, bar-pin, bracelet, scarf-pin, or similar article. J. A. and E. C. Abel. No. 47,177; Apr. 6; Gaz. vol. 213; p. 325.
- Pennant. J. S. Potter and A. Tough. No. 47,894; Sept. 28; Gaz. vol. 218; p. 1138.
- Percolator. F. Riccardelli and J. B. Bleichrode. No. 47,545; July 6; Gaz. vol. 216; p. 319.
- Percolator. B. P. Wagner. No. 47,549; July 6; Gaz. vol. 216; p. 320.
- Percolator, Electric. F. Kuhn and F. E. Shailor. No. 47,465; June 15; Gaz. vol. 215; p. 968.
- Phonograph box or cabinet. L. Markels. No. 48,188; Nov. 23; Gaz. vol. 220; p. 1345.
- Phonograph-cabinet. H. B. Greene. Nos. 48,311-17; Dec. 21; Gaz. vol. 221; pp. 1013-14.
- Phonograph-cabinet. A. W. Menns. No. 48,325; Dec. 21; Gaz. vol. 221; p. 1016.
- Phonograph-cabinet. A. Shales. No. 48,330; Dec. 21; Gaz. vol. 221; p. 1017.
- Phonograph-casing. P. Hunt. No. 48,249; Dec. 7; Gaz. vol. 221; p. 319.
- Photograph-mount. T. Kajiwarra. No. 46,950; Feb. 16; Gaz. vol. 211; p. 934.
- Piano case, Player-. W. Lane. No. 47,959; Oct. 12; Gaz. vol. 219; p. 570.
- Pick point, Beet-. A. L. Wilkes. No. 47,240; Apr. 13; Gaz. vol. 213; p. 723.
- Picture. J. Wojcik. No. 47,979; Oct. 12; Gaz. vol. 219; p. 573.
- Picture-frame. P. Szabo. No. 47,835; Sept. 14; Gaz. vol. 218; p. 583.
- Picture machines, Casing for moving-. H. E. Roys. No. 47,410; June 1; Gaz. vol. 215; p. 295.
- Pin. E. Chacon. No. 47,452; June 15; Gaz. vol. 215; p. 966.
- Pin. J. F. Faber. No. 47,378; May 25; Gaz. vol. 214; p. 1293.
- Pin or badge. J. A. Briegel. No. 47,990; Oct. 19; Gaz. vol. 219; p. 888.
- Pin, Stick-. E. A. Degan. Nos. 47,712-14; Aug. 17; Gaz. vol. 217; p. 1007.
- Pipe. R. G. Nelson. No. 47,007; Feb. 23; Gaz. vol. 211; p. 1238.
- Pipe bowl, Tobacco-. E. Thern. No. 47,476; June 15; Gaz. vol. 215; p. 970.
- Pipe-cleaner. J. Pfister. No. 47,144; Mar. 23; Gaz. vol. 212; p. 1329.
- Pipe, Tobacco-. L. and U. N. Jobey. No. 46,998; Feb. 23; Gaz. vol. 211; p. 1236.
- Pistols, Casing for liquid-. A. Blankenhagen. No. 47,099; Mar. 16; Gaz. vol. 212; p. 1025.
- Pitcher. W. Mischler. No. 48,354; Dec. 28; Gaz. vol. 221; p. 1425.
- Pitcher. F. A. Sebring. No. 47,201; Apr. 6; Gaz. vol. 213; p. 330.
- Pitcher, Glass. J. M. Frazier. No. 48,351; Dec. 28; Gaz. vol. 221; p. 1424.
- Pitcher or similar article. B. P. Jenks. No. 47,428; June 8; Gaz. vol. 215; p. 639.
- Plate. W. Abrams. No. 47,178; Apr. 6; Gaz. vol. 213; p. 325.
- Plate. P. Albrecht. No. 47,372; May 25; Gaz. vol. 214; p. 1292.
- Plate. P. Jenner. No. 48,225; Nov. 30; Gaz. vol. 220; p. 1698.
- Plate. A. J. Knopf. No. 47,363; May 18; Gaz. vol. 214; p. 1001.
- Plate. A. J. Koch. No. 46,909; Feb. 2; Gaz. vol. 211; p. 255.
- Plate. F. A. Sebring. No. 47,344; May 11; Gaz. vol. 214; p. 660.
- Plate. J. T. Tubby. No. 47,659; July 27; Gaz. vol. 216; p. 1311.
- Plate. A. Westerlind. Nos. 47,975-6; Oct. 12; Gaz. vol. 219; pp. 572-3.
- Plate or similar article. W. Abrams. Nos. 48,092-3; Nov. 9; Gaz. vol. 220; p. 636.
- Plate or similar article. A. Bihr. Nos. 48,237-8; Nov. 30; Gaz. vol. 220; p. 1700.
- Plate or similar article. A. Bihr. Nos. 48,302-3; Dec. 21; Gaz. vol. 221; p. 1011.
- Plate or similar article. P. T. Frost. No. 46,945; Feb. 16; Gaz. vol. 211; p. 933.
- Plate or similar article. L. C. Lewis. No. 47,337; May 11; Gaz. vol. 214; p. 658.
- Plate or similar article. T. W. Obert. No. 46,836; Jan. 5; Gaz. vol. 210; p. 372.
- Plate or similar article. E. Picault. No. 47,009; Feb. 23; Gaz. vol. 211; p. 1239.
- Plate, Surface. W. C. Commons. No. 47,686; Aug. 10; Gaz. vol. 217; p. 652.
- Platter or similar article. B. P. Jenks. No. 47,645; July 27; Gaz. vol. 216; p. 1308.
- Platter, tray, or similar article. H. H. Hamilton. No. 47,998; Oct. 19; Gaz. vol. 219; p. 889.
- Pliers, cutters, and similar articles, Member of a pair. K. Peterson. No. 47,389; May 25; Gaz. vol. 214; p. 1295.
- Plows, Heel-scraper for. H. A. Dean. No. 46,925; Feb. 9; Gaz. vol. 211; p. 610.
- Plug, receptacle, Attachment-. H. Hubbell. No. 47,953; Oct. 12; Gaz. vol. 219; p. 568.
- Pneumatic sweepers, Suction-nozzle for. L. L. Ferguson. No. 47,358; May 18; Gaz. vol. 214; p. 1000.
- Pocket article. J. Lemiesz. No. 47,492; June 22; Gaz. vol. 215; p. 1252.
- Pocket article. S. Yapczenski. No. 47,778; Aug. 31; Gaz. vol. 217; p. 1645.
- Popcorn-bag. F. A. Veith. No. 47,085; Mar. 9; Gaz. vol. 212; p. 672.
- Powder box, Talcum-. E. Hoffman. Nos. 46,948-9; Feb. 16; Gaz. vol. 211; pp. 933-4.
- Powder box, Talcum-. E. Hoffman. No. 47,134; Mar. 23; Gaz. vol. 212; p. 1327.
- Powder container, Toilet-. G. C. Bradford. No. 47,909; Oct. 5; Gaz. vol. 219; p. 252.
- Powder container, Toilet-. F. J. M. Miles. No. 48,078; Nov. 2; Gaz. vol. 220; p. 332.
- Powder-receptacle, Sanitary. S. S. Newman. No. 47,605; July 20; Gaz. vol. 216; p. 1000.
- Prayer-box. F. S. Hickey. No. 47,516; June 29; Gaz. vol. 215; p. 1490.
- Precious, semiprecious, or synthetic stone or an imitation thereof. S. Heller. No. 46,818; Jan. 5; Gaz. vol. 210; p. 368.
- Printer's make-ready table. F. M. Bashellier. No. 47,448; June 15; Gaz. vol. 215; p. 965.
- Pump-frame. G. Shelton. No. 47,251; Apr. 20; Gaz. vol. 213; p. 1090.
- Puzzle-board. T. L. Smith. No. 47,121; Mar. 16; Gaz. vol. 212; p. 1029.
- Puzzle-box. A. M. Eckert. No. 47,484; June 22; Gaz. vol. 215; p. 1251.
- Quilted article. J. Ross. No. 47,651; July 27; Gaz. vol. 216; p. 1310.
- Rack for supporting watches, watch-chains, key-rings, &c. W. P. Stroke. No. 47,123; Mar. 16; Gaz. vol. 212; p. 1030.
- Radiator. W. B. Reed. No. 48,045; Oct. 26; Gaz. vol. 219; p. 1211.
- Radiator and hood, Automobile. C. Cavalli. No. 48,219; Nov. 30; Gaz. vol. 220; p. 1697.
- Radiator, Automobile-. H. M. Crane. No. 47,152; Mar. 30; Gaz. vol. 212; p. 1659.
- Radiator, Automobile-. J. A. Kuenz. No. 47,775; Aug. 31; Gaz. vol. 217; p. 1645.
- Radiator-cap ornament. F. R. Day. No. 47,711; Aug. 17; Gaz. vol. 217; p. 1006.
- Radiator cowl and hood. E. K. F. Streichert. No. 47,631; July 20; Gaz. vol. 216; p. 1005.
- Radiator, Electric steam-. A. C. Hulbert. No. 47,039; Mar. 2; Gaz. vol. 212; p. 302.
- Radiator-emblem. L. V. Aronson. No. 48,165; Nov. 23; Gaz. vol. 220; p. 1341.
- Radiator for automobiles, Cooling-. C. P. Hollister. No. 48,180; Nov. 23; Gaz. vol. 220; p. 1344.
- Radiator-hood. D. Livingston. No. 47,162; Mar. 30; Gaz. vol. 212; p. 1661.
- Radiator-mask. D. M. Livingston. No. 48,323; Dec. 21; Gaz. vol. 221; p. 1015.
- Radiator-register. C. F. Merriman. No. 47,754; Aug. 24; Gaz. vol. 217; p. 1317.
- Radiator-section. W. B. Reed. No. 48,044; Oct. 26; Gaz. vol. 219; p. 1211.
- Railway-coach body. E. B. Jones. No. 47,791; Sept. 7; Gaz. vol. 218; p. 290.
- Railway-crossing signal. E. D. Mayberry. No. 47,190; Apr. 6; Gaz. vol. 213; p. 327.
- Rake. A. C. Bruce. No. 47,021; Mar. 2; Gaz. vol. 212; p. 299.
- Range, Combination coal and gas. W. M. Seymour. No. 48,086; Nov. 2; Gaz. vol. 220; p. 333.
- Range, Electric. J. C. Patten. Nos. 48,191-3; Nov. 23; Gaz. vol. 220; p. 1346.
- Range, Gas-. R. B. Caverly and A. B. Bell. No. 48,102; Nov. 9; Gaz. vol. 220; p. 637.
- Rattle, Child's. L. and A. R. Sametz. No. 46,969; Feb. 16; Gaz. vol. 211; p. 938.
- Rattle or toy, Baby. J. N. Whitehouse. Nos. 47,125-6; Mar. 16; Gaz. vol. 212; p. 1030.
- Razor-strap holder. M. Mihills. No. 47,386; May 25; Gaz. vol. 214; p. 1295.
- Razor-strops and other articles, Hanger for. M. L. Brandt. No. 47,584; July 20; Gaz. vol. 216; p. 997.
- Receptacle, Waste-. S. S. Wells. No. 47,635; July 20; Gaz. vol. 216; p. 1006.
- Reflector for artificial light. R. V. Owen. No. 47,522; June 29; Gaz. vol. 215; p. 1491.
- Reflector for light-fixtures. R. M. Dixon. No. 47,642; July 27; Gaz. vol. 216; p. 1308.
- Refrigerating show-case. E. E. Boyce. No. 46,940; Feb. 16; Gaz. vol. 211; p. 932.
- Refrigerator, Candy-. C. O. Ullin. Nos. 47,441-2; June 8; Gaz. vol. 215; p. 641.
- Register-shield. H. W. Neal. No. 47,541; July 6; Gaz. vol. 216; p. 319.

- Ribbon. J. Grossgebauer. No. 47,720; Aug. 17; Gaz. vol. 217; p. 1008.
- Ribbon. C. P. Schlegel. Nos. 47,119-20; Mar. 16; Gaz. vol. 212; p. 1029.
- Ribbon, Woven and printed. R. Jacob and E. Speck. No. 47,137; Mar. 23; Gaz. vol. 212; p. 1327.
- Ridge-roll finish. P. Mohrmann. No. 47,388; May 25; Gaz. vol. 214; p. 1295.
- Ring. J. F. Faber. No. 47,417; June 8; Gaz. vol. 215; p. 637.
- Ring. J. F. Faber. No. 47,815; Sept. 14; Gaz. vol. 218; p. 580.
- Ring. J. F. Faber. No. 48,349; Dec. 28; Gaz. vol. 221; p. 1424.
- Ring. C. Rosenberger. No. 48,232; Nov. 30; Gaz. vol. 220; p. 1699.
- Ring, bracelet, pin, button, or similar article of jewelry. W. Loeb. No. 47,163; Mar. 30; Gaz. vol. 212; p. 1661.
- Ripper case, Safety-. H. A. Smith. No. 46,889; Jan. 26; Gaz. vol. 210; p. 1351.
- Ring, scarf-pin, brooch, button, or similar article of jewelry. G. H. Edward, V. H. King, and H. J. Skipp. No. 47,485; June 22; Gaz. vol. 215; p. 1251.
- Ring, Wedding-. J. R. Woznica. Nos. 48,213-14; Nov. 23; Gaz. vol. 220; p. 1350.
- Revolver or pistol handle. F. Biffar. No. 47,984; Oct. 19; Gaz. vol. 219; p. 887.
- Robe, Sleeping-. L. G. Milkes. No. 47,494; June 22; Gaz. vol. 215; p. 1252.
- Rocking-horse. D. W. Lynch. No. 47,117; Mar. 16; Gaz. vol. 212; p. 1029.
- Rompers. M. R. Fitch. No. 46,988; Feb. 23; Gaz. vol. 211; p. 1235.
- Roofing, Ornamental flexible. W. P. Dunhany. No. 48,172; Nov. 23; Gaz. vol. 220; p. 1342.
- Rug. W. A. Elliot. No. 46,814; Jan. 5; Gaz. vol. 210; p. 367.
- Rug. F. A. Haas. No. 46,903; Feb. 2; Gaz. vol. 211; p. 254.
- Rug. R. M. De Hart. No. 47,323; May 11; Gaz. vol. 214; p. 656.
- Rug. H. C. Lacouture. No. 46,910; Feb. 2; Gaz. vol. 211; p. 256.
- Rug. W. McCabe. No. 47,603; July 20; Gaz. vol. 216; p. 1000.
- Rug. J. Merry. No. 46,835; Jan. 5; Gaz. vol. 210; p. 371.
- Rug. L. C. Noble. No. 47,141; Mar. 23; Gaz. vol. 212; p. 1328.
- Rug. A. Petzold. Nos. 46,837-44; Jan. 5; Gaz. vol. 210; pp. 372-3.
- Rug. A. Petzold. Nos. 46,961-3; Feb. 16; Gaz. vol. 211; pp. 936-7.
- Rug. A. Petzold. Nos. 47,403-7; June 1; Gaz. vol. 215; pp. 293-4.
- Rug. A. Petzold. Nos. 47,497-508; June 22; Gaz. vol. 215; pp. 1253-5.
- Rug. A. Petzold. Nos. 47,570-1; July 13; Gaz. vol. 216; p. 656.
- Rug. H. A. S. Read. Nos. 47,613-19; July 20; Gaz. vol. 216; pp. 1002-3.
- Rug. H. A. S. Read. Nos. 48,194-200; Nov. 23; Gaz. vol. 220; pp. 1346-7.
- Rug. R. F. Riddell. Nos. 47,622-5; July 20; Gaz. vol. 216; p. 1004.
- Rug. E. G. Sauer. Nos. 46,846-8; Jan. 5; Gaz. vol. 210; p. 374.
- Rug. E. G. Sauer. No. 46,914; Feb. 2; Gaz. vol. 211; p. 256.
- Rug. E. G. Sauer. No. 46,970; Feb. 16; Gaz. vol. 211; p. 938.
- Rug. C. N. Scholler. No. 46,972; Feb. 16; Gaz. vol. 211; p. 938.
- Rug. N. S. Stewart. No. 47,675; Aug. 3; Gaz. vol. 217; p. 245.
- Rug-border. E. G. Sauer. No. 46,971; Feb. 16; Gaz. vol. 211; p. 938.
- Rug or carpet, Grass. O. T. Waite. No. 47,550; July 6; Gaz. vol. 216; p. 320.
- Sad-iron handle and guard. L. Rosenbaum. No. 46,857; Jan. 12; Gaz. vol. 210; p. 693.
- Sad-iron, Self-heating. R. E. Hart. No. 47,820; Sept. 14; Gaz. vol. 218; p. 580.
- Safety-pin. E. M. Gilbride. No. 46,850; Jan. 12; Gaz. vol. 210; p. 692.
- Safety-pin. R. Smith. No. 47,674; Aug. 3; Gaz. vol. 217; p. 245.
- Saucer. F. A. Sebring. No. 47,843; May 11; Gaz. vol. 214; p. 659.
- Saw-handle. L. Shireman. No. 47,547; July 6; Gaz. vol. 216; p. 320.
- Salt and pepper shaker, Combined. S. Stanton. No. 47,866; Sept. 21; Gaz. vol. 218; p. 862.
- Salt and pepper shakers, Supporting-base for. S. L. Wilcox. No. 48,234; Nov. 30; Gaz. vol. 220; p. 1699.
- Scale frame or casing, Weighing-. T. W. B. Watling. No. 46,978; Feb. 16; Gaz. vol. 211; p. 939.
- Scale-weight. G. E. Chatillon. No. 48,339; Dec. 21; Gaz. vol. 221; p. 1019.
- Search-light. J. C. McCall. No. 48,282; Dec. 14; Gaz. vol. 221; p. 707.
- Server. L. Raesser. No. 46,845; Jan. 5; Gaz. vol. 210; p. 373.
- Scissors, Pair of. T. K. Piggott. No. 47,735; Aug. 17; Gaz. vol. 217; p. 1011.
- Score-board. W. H. Read. No. 47,422; June 8; Gaz. vol. 215; p. 638.
- Screw-driver. T. F. Bowker. No. 48,218; Nov. 30; Gaz. vol. 220; p. 1696.
- Seal or label blank or similar article. N. A. Cossenas. No. 47,662; Aug. 3; Gaz. vol. 217; p. 243.
- Settle for lunch-rooms. H. S. Kelsey. No. 47,792; Sept. 7; Gaz. vol. 218; p. 291.
- Settee-rockers. J. W. Severt. No. 48,329; Dec. 21; Gaz. vol. 221; p. 1017.
- Shade. R. Haley. No. 46,816; Jan. 5; Gaz. vol. 210; p. 367.
- Shade. N. Kopp. Nos. 47,334-5; May 11; Gaz. vol. 214; p. 658.
- Shade-holder. J. J. Nash. No. 46,956; Feb. 16; Gaz. vol. 211; p. 935.
- Shield or similar article. H. W. Pleister. No. 48,254; Dec. 7; Gaz. vol. 221; p. 320.
- Shock-absorber. W. S. Daniels. No. 48,310; Dec. 21; Gaz. vol. 221; p. 1013.
- Shoe. W. Menge, Jr. Nos. 48,189-90; Nov. 23; Gaz. vol. 220; p. 1345.
- Shoe, Athletic. E. F. Miller. No. 47,238; Apr. 13; Gaz. vol. 213; p. 723.
- Shoe horn and button hook. J. L. Sommer. No. 47,762; Aug. 24; Gaz. vol. 217; p. 1319.
- Shoe, Rubber. F. E. Payne. No. 47,933; Oct. 5; Gaz. vol. 219; p. 256.
- Shoe-upper. G. M. Howell. No. 46,906; Feb. 2; Gaz. vol. 211; p. 255.
- Shovel. S. Makbulian. No. 46,868; Jan. 19; Gaz. vol. 210; p. 1044.
- Show-case. J. G. French. No. 48,027; Oct. 26; Gaz. vol. 219; p. 1208.
- Shower-plate. J. J. Nash. No. 46,959; Feb. 16; Gaz. vol. 211; p. 936.
- Side-wall plate. L. W. Andersen. No. 48,058; Nov. 2; Gaz. vol. 220; p. 328.
- Sign. H. Conover. No. 48,307; Dec. 21; Gaz. vol. 221; p. 1012.
- Sign. H. Cusack. No. 47,242; Apr. 20; Gaz. vol. 213; p. 1088.
- Sign. J. Junquera. No. 48,182; Nov. 23; Gaz. vol. 220; p. 1344.
- Sign. J. L. Quinn. No. 47,965; Oct. 12; Gaz. vol. 219; p. 571.
- Sign. L. Rich. No. 48,328; Dec. 21; Gaz. vol. 221; p. 1016.
- Sign, Barber's. F. P. Kempf. No. 47,822; Sept. 14; Gaz. vol. 218; p. 581.
- Sign, Electric. M. Norden. No. 47,192; Apr. 6; Gaz. vol. 213; p. 328.
- Sign, Electric. M. Norden. No. 47,964; Oct. 12; Gaz. vol. 219; p. 571.
- Sign for vehicles and the like, Novelty. W. H. Heady. No. 47,156; Mar. 30; Gaz. vol. 212; p. 1660.
- Sign, Road-. J. H. Beeson. No. 47,679; Aug. 3; Gaz. vol. 217; p. 246.
- Sign frame, Illuminated-. F. J. Maixner. No. 46,885; Jan. 26; Gaz. vol. 210; p. 1350.
- Sign or insignia. J. A. Burke. No. 48,101; Nov. 9; Gaz. vol. 220; p. 637.
- Sign, Safety-first. R. R. Hill and C. C. Robinson. No. 47,849; Sept. 21; Gaz. vol. 218; p. 859.
- Signal. W. Sparks. No. 46,917; Feb. 2; Gaz. vol. 211; p. 257.
- Signal device. H. L. Hullinger. No. 47,425; June 8; Gaz. vol. 215; p. 638.
- Smoking implement. C. C. Dula. No. 47,687; Aug. 10; Gaz. vol. 217; p. 652.
- Soap-distributors, Casing for. M. M. Marcuse. No. 47,366; May 18; Gaz. vol. 214; p. 1002.
- Socket-cover. L. W. Andersen. Nos. 48,054-5; Nov. 2; Gaz. vol. 220; pp. 327-8.
- Sole-pad for boots and shoes, India-rubber. W. W. Phillips. Nos. 48,040-1; Oct. 26; Gaz. vol. 219; pp. 1210-11.
- Sound-producing instruments, Casing for. S. H. Stirrup. No. 47,935; Oct. 5; Gaz. vol. 219; p. 257.
- Souvenir emblematic gate. A. R. Teters. No. 47,867; Sept. 21; Gaz. vol. 218; p. 863.
- Souvenir-penny of California. H. W. Lansing. No. 47,537; July 6; Gaz. vol. 216; p. 318.
- Spark-plug. W. S. Witter. No. 47,941; Oct. 5; Gaz. vol. 219; p. 258.
- Spectacle-frame. A. J. Harrison. No. 47,420; June 8; Gaz. vol. 215; p. 637.
- Spectacles, Pair of. F. Willson and N. Bourquin. No. 48,300; Dec. 14; Gaz. vol. 221; p. 710.
- Spike-gripping tool. C. T. Parabo. No. 47,046; Mar. 2; Gaz. vol. 212; p. 303.
- Spoon. A. J. Frankland. No. 47,071; Mar. 9; Gaz. vol. 212; p. 669.
- Spoon. T. J. Lowery. No. 47,305; May 4; Gaz. vol. 214; p. 319.
- Spoon-bowl. N. Dedrick. No. 47,132; Mar. 23; Gaz. vol. 212; p. 1327.

Alphabetical list of designs—Continued.

- Spoon, fork, and similar article. G. H. Pinney. No. 47,470; June 15; Gaz. vol. 215; p. 969.
- Spoon, fork, or similar article. F. W. Bray. No. 48,272; Dec. 14; Gaz. vol. 221; p. 705.
- Spoon, fork, or similar article. G. L. Crowell, Jr. No. 46,924; Feb. 9; Gaz. vol. 211; p. 610.
- Spoon, fork, or similar article. G. L. Crowell, Jr. No. 47,782; Sept. 7; Gaz. vol. 218; p. 289.
- Spoon, fork, or similar article. H. Hilbom. No. 47,072; Mar. 9; Gaz. vol. 212; p. 670.
- Spoon, fork, or similar article. W. H. Host. No. 46,880; Jan. 26; Gaz. vol. 210; p. 1349.
- Spoon, fork, or similar article. A. G. Kintz. No. 47,043; Mar. 2; Gaz. vol. 212; p. 303.
- Spoon, fork, or similar article. B. D. Myers. No. 48,283; Dec. 14; Gaz. vol. 221; p. 707.
- Spoon, fork, or similar article. F. E. Pretat. No. 47,010; Feb. 23; Gaz. vol. 211; p. 1239.
- Spoon, fork, or similar article. J. Rothlisberger. No. 47,760; Aug. 24; Gaz. vol. 217; p. 1318.
- Spoon, fork, or similar article. G. Strohaker. No. 47,017; Feb. 23; Gaz. vol. 211; p. 1240.
- Spoon, fork, or similar article. G. Strohaker. No. 48,356; Dec. 28; Gaz. vol. 221; p. 1425.
- Spoon, fork, or similar article. G. P. Tilton. No. 47,512; June 22; Gaz. vol. 215; p. 1256.
- Spoon, fork, or similar article. G. L. Turner. No. 48,336; Dec. 21; Gaz. vol. 221; p. 1018.
- Spoon, fork, or similar article. H. L. Wallace. No. 47,018; Feb. 23; Gaz. vol. 211; p. 1240.
- Spoon, fork, or similar article. H. L. Wallace. No. 47,175; Mar. 30; Gaz. vol. 212; p. 1664.
- Spoon, fork, or similar article. H. L. Wallace. No. 47,414; June 1; Gaz. vol. 215; p. 295.
- Spoon, fork, or similar article. H. L. Wallace. No. 47,744; Aug. 17; Gaz. vol. 217; p. 1013.
- Spoon, fork, or similar article. H. L. Wallace. Nos. 47,836-7; Sept. 14; Gaz. vol. 218; p. 583.
- Spoon, fork, or similar article handle. S. A. Keller. No. 47,732; Aug. 17; Gaz. vol. 217; p. 1010.
- Spoon, fork, or similar article handle. L. A. Littlefield. No. 47,733; Aug. 17; Gaz. vol. 217; p. 1011.
- Spoon, fork, or similar article handle. A. H. Staf. No. 47,743; Aug. 17; Gaz. vol. 217; p. 1013.
- Spoon, fork, or similar article, Pierced. F. Schwinn. No. 47,509; June 22; Gaz. vol. 215; p. 1255.
- Spoon, fork, or similar article, Pierced. F. Schwinn. No. 47,629; July 20; Gaz. vol. 216; p. 1005.
- Spoon, fork, or similar article, Pierced. F. Schwinn. No. 47,740; Aug. 17; Gaz. vol. 217; p. 1012.
- Spoon supporter, Medicine-. L. S. Niper. No. 48,039; Oct. 26; Gaz. vol. 219; p. 1210.
- Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 47,065; Mar. 9; Gaz. vol. 212; p. 668.
- Spoons, forks, or similar articles, Handle for. W. A. Jameson. No. 47,040; Mar. 2; Gaz. vol. 212; p. 302.
- Spoons, forks, or similar articles, Handle for. W. A. Jameson. No. 47,157; Mar. 30; Gaz. vol. 212; p. 1660.
- Spoons, forks, or similar articles, Handle for. W. A. Jameson. No. 47,362; May 18; Gaz. vol. 214; p. 1001.
- Spoons, forks, or similar articles, Handle for. B. P. Jenks. No. 47,381; May 25; Gaz. vol. 214; p. 1294.
- Spoons, forks, or similar articles, Handle for. S. A. Keller. No. 47,158; Mar. 30; Gaz. vol. 212; p. 1660.
- Spoons, forks, or similar articles, Handle for. T. B. Lashar. No. 47,364; May 18; Gaz. vol. 214; p. 1001.
- Spoons, forks, or similar articles, Handle for. G. C. Lunt. No. 47,365; May 18; Gaz. vol. 214; p. 1001.
- Spoons, forks, or similar articles, Handle for. M. Masson. No. 47,432; June 8; Gaz. vol. 215; p. 639.
- Spoons, forks, or similar articles, Handle for. C. F. Simms. No. 48,296; Dec. 14; Gaz. vol. 221; p. 709.
- Spoons, forks, or similar articles, Handle for. A. H. Staf. No. 48,298; Dec. 14; Gaz. vol. 221; p. 710.
- Spoons, knives, forks, and other table and toilet articles, Handle for. G. N. Allen. No. 47,482; June 22; Gaz. vol. 215; p. 1250.
- Spoons or analogous articles, Handle for. P. J. Chéron. No. 48,306; Dec. 21; Gaz. vol. 221; p. 1012.
- Stamp, Scrip-. E. L. Lowe. No. 47,602; July 20; Gaz. vol. 216; p. 1000.
- Stand and clock-casing, Combined. H. E. Johnson. No. 47,919; Oct. 5; Gaz. vol. 219; p. 254.
- Stationery-holder, Portable. J. H. Lindsay. No. 46,984; Feb. 16; Gaz. vol. 211; p. 941.
- Statue. H. W. Cass. No. 47,219; Apr. 13; Gaz. vol. 213; p. 719.
- Statuette. G. E. Erickson. No. 47,222; Apr. 13; Gaz. vol. 213; p. 719.
- Statuette. W. F. Hirschmann. No. 47,189; Apr. 6; Gaz. vol. 213; p. 327.
- Statuette. W. S. Smallwood and J. T. Sergeant. No. 48,133; Nov. 9; Gaz. vol. 220; p. 642.
- Statuette. M. Stinemetz. No. 47,704; Aug. 10; Gaz. vol. 217; p. 655.
- Statuette, Cat. E. J. Haney. No. 47,951; Oct. 12; Gaz. vol. 219; p. 568.
- Steering-column switch unit. R. C. Scaife. No. 47,898; Sept. 28; Gaz. vol. 218; p. 1138.
- Stereopticon-slide. A. F. Victor. No. 47,938; Oct. 5; Gaz. vol. 219; p. 258.
- Stick-pin or similar article of jewelry. L. A. Kelly. No. 47,430; June 8; Gaz. vol. 215; p. 639.
- Stirrup. G. Buermann. No. 47,024; Mar. 2; Gaz. vol. 212; p. 300.
- Stocking. B. S. Gosztola. No. 47,847; Sept. 21; Gaz. vol. 218; p. 859.
- Stone or an imitation thereof, Precious or semiprecious or synthetic. S. Heller. No. 47,694; Aug. 10; Gaz. vol. 217; p. 653.
- Stone or an imitation thereof, Precious or semiprecious or synthetic. S. Heller. No. 47,722; Aug. 17; Gaz. vol. 217; p. 1008.
- Stone or an imitation thereof, Precious or semiprecious or synthetic. E. B. Shepard. Nos. 47,701-3; Aug. 10; Gaz. vol. 217; pp. 654-5.
- Stool, Counter-. H. R. Reischmann. No. 47,966; Oct. 12; Gaz. vol. 219; p. 571.
- Stool foot-rest, Counter-. H. R. Reischmann. No. 48,010; Oct. 19; Gaz. vol. 219; p. 891.
- Stove. L. S. Bixler. No. 48,099-100; Nov. 9; Gaz. vol. 220; p. 637.
- Stove. M. R. Lehman. Nos. 48,069-73; Nov. 2; Gaz. vol. 220; pp. 330-1.
- Stove. A. J. Lindemann. No. 48,118; Nov. 9; Gaz. vol. 220; p. 640.
- Stove. W. L. Mersfelder. No. 47,962; Oct. 12; Gaz. vol. 219; p. 570.
- Stove. L. D. Smith. No. 47,438; June 8; Gaz. vol. 215; p. 640.
- Stove. L. D. Smith. No. 48,297; Dec. 14; Gaz. vol. 221; p. 709.
- Stove. E. G. Van Wie. No. 47,084; Mar. 9; Gaz. vol. 212; p. 672.
- Stove, Gas-. A. H. Humphrey. No. 48,063; Nov. 2; Gaz. vol. 220; p. 329.
- Stove, Gas heating-. H. C. Fritz. No. 47,380; May 25; Gaz. vol. 214; p. 1294.
- Stove, Oil-. F. E. White. No. 48,338; Dec. 21; Gaz. vol. 221; p. 1019.
- Stove or range. L. R. Halloway. No. 47,644; July 27; Gaz. vol. 216; p. 1308.
- Stove-shelf. R. Hoffman. No. 47,463; June 15; Gaz. vol. 215; p. 967.
- Straw-brad fabric for hats, Imitation-. E. Israel. No. 47,397; June 1; Gaz. vol. 215; p. 292.
- Syringe bowl, Fountain-. R. B. Newcome. No. 47,859; Sept. 21; Gaz. vol. 218; p. 861.
- Syringe bowl, Fountain-. R. B. Newcome. No. 48,159; Nov. 16; Gaz. vol. 220; p. 1013.
- Table. G. L. Harrison. No. 47,360; May 18; Gaz. vol. 214; p. 1000.
- Table. H. Huskey. No. 47,821; Sept. 14; Gaz. vol. 218; p. 581.
- Table, Luncheon-. H. H. Labadie. No. 47,601; July 20; Gaz. vol. 216; p. 1000.
- Table or stand. A. B. Hodge. No. 48,320; Dec. 21; Gaz. vol. 221; p. 1015.
- Table ornament. A. G. Weiser. No. 47,312; May 4; Gaz. vol. 214; p. 320.
- Table ornament. A. G. Weiser. No. 47,369; May 18; Gaz. vol. 214; p. 1002.
- Table ornamentation adapted for use as a vase, Article of. L. Gudeman. Nos. 48,275-7; Dec. 14; Gaz. vol. 221; p. 706.
- Tag. W. W. Shaw. Nos. 47,864-5; Sept. 21; Gaz. vol. 218; p. 862.
- Talcum-box. E. Hoffman. No. 46,865; Jan. 19; Gaz. vol. 210; p. 1043.
- Talking-machine cabinet. P. Duffy. Nos. 47,910-14; Oct. 5; Gaz. vol. 219; pp. 252-3.
- Talking-machine cabinet. E. R. Johnson and E. T. Kleffer. No. 47,398; June 1; Gaz. vol. 215; p. 293.
- Talking-machine cabinet. A. D. Jones. No. 48,353; Dec. 28; vol. 221; p. 1425.
- Talking-machine cabinet. E. T. Kleffer. No. 47,399; June 1; Gaz. vol. 215; p. 293.
- Talking-machine cabinet. C. E. Livengood and C. W. Baldwin. No. 48,003; Oct. 19; Gaz. vol. 219; p. 890.
- Talking-machine cabinet. H. C. Moyer. No. 48,122; Nov. 9; Gaz. vol. 220; p. 641.
- Talking-machine cabinet. G. M. Willson. Nos. 48,019-21; Oct. 19; Gaz. vol. 219; p. 893.
- Tank cover, Flush-. N. W. Stern. Nos. 47,654-6; July 27; Gaz. vol. 216; pp. 1310-11.
- Tap-chuck. W. L. Procnier. No. 47,199; Apr. 6; Gaz. vol. 213; p. 329.
- Tatting-shuttle. A. B. Collingbourne. No. 47,811; Sept. 14; Gaz. vol. 218; p. 579.
- Teapot. F. A. Sebring. No. 47,202; Apr. 6; Gaz. vol. 213; p. 330.
- Teapot or similar article. C. A. Bennett. Nos. 48,096-7; Nov. 9; Gaz. vol. 220; p. 636.
- Teapot or similar article. B. P. Jenks. No. 47,427; June 8; Gaz. vol. 215; p. 638.
- Teething apparatus. J. R. Golden. No. 47,419; June 8; Gaz. vol. 215; p. 637.
- Telephone attachment. C. R. Denny. No. 48,105; Nov. 9; Gaz. vol. 220; p. 638.
- Telephone-stand. A. Schrenkelsen. No. 48,013; Oct. 19; Gaz. vol. 219; p. 892.
- Telephonic transmitting appliance. K. M. Turner. No. 47,905; Sept. 28; Gaz. vol. 218; p. 1140.

- Thread-cutter. F. D. Clarke. No. 47,992; Oct. 19; Gaz. vol. 219; p. 888.
- Tile, Furnace. E. C. Meier. No. 47,930; Oct. 5; Gaz. vol. 219; p. 256.
- Tile, Wall-. H. N. Goldsmith. No. 47,290; May 4; Gaz. vol. 214; p. 317.
- Tire. H. C. Arnold. No. 47,944; Oct. 12; Gaz. vol. 219; p. 567.
- Tire. W. W. Lux. No. 46,953; Feb. 16; Gaz. vol. 211; p. 935.
- Tire. H. W. Raymann. No. 47,612; July 20; Gaz. vol. 216; p. 1001.
- Tire. H. W. Raymann. No. 47,830; Sept. 14; Gaz. vol. 218; p. 582.
- Tire. D. Spence. No. 47,347; May 11; Gaz. vol. 214; p. 660.
- Tire. W. H. Yule. No. 47,371; May 18; Gaz. vol. 214; p. 1002.
- Tire, Automobile-. H. H. Holdaway. No. 47,135; Mar. 23; Gaz. vol. 212; p. 1327.
- Tire, Automobile-. H. J. Leab. No. 47,431; June 8; Gaz. vol. 215; p. 639.
- Tire-casing. J. H. Christian. No. 47,947; Oct. 12; Gaz. vol. 219; p. 567.
- Tire-casing. T. R. McKennan. No. 47,139; Mar. 23; Gaz. vol. 212; p. 1328.
- Tire-casing. E. A. Miller. No. 47,285; Apr. 27; Gaz. vol. 213; p. 1414.
- Tire-core, Vehicle. J. A. MacMillan. No. 46,884; Jan. 26; Gaz. vol. 210; p. 1350.
- Tire, Elastic vehicle-. M. J. Del Grego. No. 48,244; Dec. 7; Gaz. vol. 221; p. 318.
- Tire, Pneumatic. H. R. Holmes. No. 47,424; June 8; Gaz. vol. 215; p. 638.
- Tire-tread. D. P. Harris. No. 48,029; Oct. 26; Gaz. vol. 219; p. 1209.
- Tire-tread. J. Hauvette-Michelin. No. 47,892; Sept. 28; Gaz. vol. 218; p. 1137.
- Tire-tread. W. D. McNaull. No. 47,467; June 15; Gaz. vol. 215; p. 968.
- Tire-tread. A. Palder. No. 47,143; Mar. 23; Gaz. vol. 212; p. 1329.
- Tire-tread. D. Spence. No. 47,969; Oct. 12; Gaz. vol. 219; p. 571.
- Tire-tread. R. F. Teall. No. 47,972; Oct. 12; Gaz. vol. 219; p. 572.
- Tire-tread or similar article. J. S. Patterson. No. 48,253; Dec. 7; Gaz. vol. 221; p. 320.
- Tire tread, Pneumatic. P. B. Bosworth. No. 47,872; Sept. 28; Gaz. vol. 218; p. 1134.
- Tire tread, Rubber-. N. J. and F. Mooney. No. 47,963; Oct. 12; Gaz. vol. 219; p. 570.
- Tire, Vehicle-. M. Bergougnan. No. 47,771; Aug. 31; Gaz. vol. 217; p. 1644.
- Tire, Vehicle-. W. F. Bowers. No. 47,873; Sept. 28; Gaz. vol. 218; p. 1134.
- Tire, Vehicle-. J. Christy. No. 46,942; Feb. 16; Gaz. vol. 211; p. 932.
- Tire, Vehicle-. J. Christy. Nos. 47,875-6; Sept. 28; Gaz. vol. 218; p. 1135.
- Tire, Vehicle-. H. G. Ellis. No. 48,348; Dec. 28; Gaz. vol. 221; p. 1423.
- Tire, Vehicle-. M. J. Gillen. No. 48,247; Dec. 7; Gaz. vol. 221; p. 318.
- Tire, Vehicle-. J. W. Henry. No. 48,154; Nov. 16; Gaz. vol. 220; p. 1012.
- Tire, Vehicle-. E. J. Willis. No. 47,351; May 11; Gaz. vol. 214; p. 661.
- Tire, Vehicle wheel-. M. D. Kuhlke. No. 48,066; Nov. 2; Gaz. vol. 220; p. 330.
- Tire, Vehicle wheel-. E. C. May. No. 47,890; Sept. 28; Gaz. vol. 218; p. 1137.
- Toaster-frame. G. E. Curtiss. No. 47,394; June 1; Gaz. vol. 215; p. 292.
- Toaster-frame. E. A. Farr. No. 46,897; Feb. 2; Gaz. vol. 211; p. 253.
- Toilet-rack, Hanging. H. C. McDonald. No. 47,891; Sept. 28; Gaz. vol. 218; p. 1137.
- Tombstone. C. Blodgett. No. 48,344; Dec. 28; Gaz. vol. 221; p. 1422.
- Tool-body. O. Z. Coutant. No. 47,585; July 20; Gaz. vol. 216; p. 997.
- Tool, Combination-. A. E. Rice. No. 48,231; Nov. 30; Gaz. vol. 220; p. 1699.
- Tool, Combination-. F. T. Skogland. No. 48,014; Oct. 19; Gaz. vol. 219; p. 892.
- Tool, Combination-. K. Stimesz. No. 46,890; Jan. 26; Gaz. vol. 210; p. 1351.
- Tool-handle. E. E. Ellis. No. 47,416; June 8; Gaz. vol. 215; p. 637.
- Towel. J. J. Ward. No. 47,676; Aug. 3; Gaz. vol. 217; p. 245.
- Towel or mat, Turkish. H. L. Hohlfeld. Nos. 47,229-32; Apr. 13; Gaz. vol. 213; p. 721.
- Towel or mat, Turkish. H. L. Hohlfeld. Nos. 47,560-1; July 13; Gaz. vol. 216; p. 654.
- Towel-support. H. F. Grandy. No. 47,880; Sept. 28; Gaz. vol. 218; p. 1135.
- Toy. J. Boe. No. 47,988; Oct. 19; Gaz. vol. 219; p. 888.
- Toy. H. D. Bowie. No. 47,908; Oct. 5; Gaz. vol. 219; p. 252.
- Toy. L. F. Davidson. No. 47,994; Oct. 19; Gaz. vol. 219; p. 889.
- Toy. H. Elliott. No. 47,183; Apr. 6; Gaz. vol. 213; p. 326.
- Toy. L. A. Mapel. No. 47,796; Sept. 7; Gaz. vol. 218; p. 291.
- Toy. G. Otstot. No. 47,045; Mar. 2; Gaz. vol. 212; p. 303.
- Toy. H. Razny. No. 47,011; Feb. 23; Gaz. vol. 211; p. 1239.
- Toy. G. P. Schmidt. No. 48,012; Oct. 19; Gaz. vol. 219; p. 892.
- Toy. C. A. Son. No. 48,233; Nov. 30; Gaz. vol. 220; p. 1699.
- Toy. W. M. F. M. and C. M. Underhill. No. 46,858; Jan. 12; Gaz. vol. 210; p. 693.
- Toy, Aerial. J. Brown. No. 48,304; Dec. 21; Gaz. vol. 221; p. 1012.
- Toy animal, Bale-of-cotton. J. R. Jarnagin. No. 46,854; Jan. 12; Gaz. vol. 210; p. 693.
- Toy balloon. F. F. Brucker. No. 48,150; Nov. 16; Gaz. vol. 220; p. 1011.
- Toy bank. C. A. Bailey. No. 47,095; Mar. 16; Gaz. vol. 212; p. 1025.
- Toy bank. W. J. Somerville. No. 47,308; May 4; Gaz. vol. 214; p. 320.
- Toy bank or similar article. G. G. Drayton. No. 47,221; Apr. 13; Gaz. vol. 213; p. 719.
- Toy bank or similar article. G. G. Drayton. No. 47,357; May 18; Gaz. vol. 214; p. 1000.
- Toy candy-container. T. G. Stough. No. 47,122; Mar. 16; Gaz. vol. 212; p. 1030.
- Toy dog. W. Seyburn. Nos. 47,047-57; Mar. 2; Gaz. vol. 212; pp. 303-6.
- Toy duck. J. B. Gruelle. Nos. 47,787-8; Sept. 7; Gaz. vol. 218; p. 290.
- Toy or toy bank. J. H. Hartman. No. 47,421; June 8; Gaz. vol. 215; p. 637.
- Toy pop-gun. F. L. Ordway. No. 47,193; Apr. 6; Gaz. vol. 213; p. 328.
- Toy rattle. C. M. Watrous. No. 46,859; Jan. 12; Gaz. vol. 210; p. 693.
- Toy rattle. C. M. Watrous. No. 46,979; Feb. 16; Gaz. vol. 211; p. 940.
- Toy scoop-cart. L. D. Bozorth. No. 47,515; June 29; Gaz. vol. 215; p. 1490.
- Toy store. P. J. McAllister. No. 47,044; Mar. 2; Gaz. vol. 212; p. 303.
- Toys, furniture, and fences, Post for children's. G. M. Quackenbush. No. 48,043; Oct. 26; Gaz. vol. 219; p. 1211.
- Trace-carrier. C. M. Bentley and E. W. Hargess. No. 47,779; Sept. 7; Gaz. vol. 218; p. 288.
- Trace-carrier. W. A. Schleicher. No. 47,628; July 20; Gaz. vol. 216; p. 1005.
- Tractor-body. L. E. Waterman. No. 48,018; Oct. 19; Gaz. vol. 219; p. 893.
- Tractor-body. L. E. Waterman and H. R. Traphagen. No. 48,017; Oct. 19; Gaz. vol. 219; p. 892.
- Tray, Change-. E. Brunhoff. No. 47,129; Mar. 23; Gaz. vol. 212; p. 1326.
- Tray. T. Wilson. No. 47,529; June 29; Gaz. vol. 215; p. 1492.
- Trimming, Embroidered. F. Rau. Nos. 47,648-9; July 27; Gaz. vol. 216; p. 1309.
- Trolley-wire-hanger yoke. A. L. Fox. No. 47,719; Aug. 17; Gaz. vol. 217; p. 1008.
- Truck frame, Vending-. J. F. Huckel. No. 48,352; Dec. 28; Gaz. vol. 221; p. 1424.
- Trunk. G. H. Wheary. No. 46,921; Feb. 2; Gaz. vol. 211; p. 258.
- Trunk bracket, Wardrobe-. N. Goldsmith. Nos. 48,177-8; Nov. 23; Gaz. vol. 220; p. 1343.
- Tumbler. A. Pick. No. 47,759; Aug. 24; Gaz. vol. 217; p. 1318.
- Tumbler. H. Pick. Nos. 47,798-800; Sept. 7; Gaz. vol. 218; pp. 291-2.
- Tumbler or similar article. G. L. Borden. No. 47,216; Apr. 13; Gaz. vol. 213; p. 718.
- Tumbler or similar article. A. J. Sanford. No. 47,527; June 29; Gaz. vol. 215; p. 1491.
- Tuning pipe, Ukulele-. E. C. Holstein. No. 48,181; Nov. 23; Gaz. vol. 220; p. 1344.
- Twine-holder. S. L. Murphy. No. 47,081; Mar. 9; Gaz. vol. 212; p. 671.
- Type, Font of. M. F. Benton. No. 46,981; Feb. 16; Gaz. vol. 211; p. 940.
- Type, Font of. M. F. Benton. No. 47,149; Mar. 30; Gaz. vol. 212; p. 1658.
- Type, Font of. M. F. Benton. Nos. 47,209-10; Apr. 13; Gaz. vol. 213; p. 717.
- Type, Font of. M. F. Benton. Nos. 47,552-4; July 13; Gaz. vol. 216; p. 653.
- Type, Font of. M. F. Benton. No. 47,577; July 20; Gaz. vol. 216; p. 996.
- Type, Font of. M. F. Benton. No. 48,098; Nov. 9; Gaz. vol. 220; p. 637.
- Type, Font of. R. F. Burfeind. No. 47,025; Mar. 2; Gaz. vol. 212; p. 300.
- Type, Font of. R. F. Burfeind. No. 47,130; Mar. 23; Gaz. vol. 212; p. 1326.

Alphabetical list of designs—Continued.

- Type, Font of. O. Cooper. No. 47,641; July 27; Gaz. vol. 216; p. 1308.
- Type, Font of. P. C. Holden. No. 47,594; July 20; Gaz. vol. 216; p. 998.
- Undervest or similar undergarment, Lady's. H. A. Taylor. No. 47,658; July 27; Gaz. vol. 216; p. 1311.
- Undervest or similar undergarment, Lady's. H. A. Taylor. No. 48,155; Nov. 9; Gaz. vol. 220; p. 643.
- Vaccination-shield. E. E. Kleinschmidt. No. 47,333; May 11; Gaz. vol. 214; p. 658.
- Vacuum-cleaner casing. C. A. Boyer. No. 47,020; Mar. 2; Gaz. vol. 212; p. 299.
- Valve-handle or similar article. B. T. Williston. No. 48,235; Nov. 30; Gaz. vol. 220; p. 1700.
- Valves, Dust-cap for. M. C. Schweinert. No. 47,672; Aug. 3; Gaz. vol. 217; p. 244.
- Valves or the like, Dust-cap for. H. P. Kraft. Nos. 47,882-4; Sept. 28; Gaz. vol. 218; p. 1136.
- Vanity-case. E. A. Guthman. No. 47,292; May 4; Gaz. vol. 214; p. 317.
- Vase. G. D. Dougherty. No. 47,878; Sept. 28; Gaz. vol. 218; p. 1135.
- Vase. A. J. Sanford. Nos. 47,736-9; Aug. 17; Gaz. vol. 217; pp. 1011-12.
- Vault, Burial-. C. L. Johnson. No. 47,382; May 25; Gaz. vol. 214; p. 1294.
- Vehicle-body. R. B. Fageol. Nos. 47,287-8; May 4; Gaz. vol. 214; p. 316.
- Vehicle-body. R. B. Fageol. No. 48,350; Dec. 28; Gaz. vol. 221; p. 1424.
- Vehicle-body. W. C. Heitzmann. No. 47,185; Apr. 6; Gaz. vol. 213; p. 327.
- Vehicle-body. W. I. Twombly. No. 48,299; Dec. 14; Gaz. vol. 221; p. 710.
- Vehicle, Motor-. R. A. Hankinson. No. 46,904; Feb. 2; Gaz. vol. 211; p. 255.
- Vehicle-signal. H. R. Kells. No. 47,235; Apr. 13; Gaz. vol. 213; p. 722.
- Vehicle-signal. F. G. Novy. No. 48,251; Dec. 7; Gaz. vol. 221; p. 319.
- Vehicles, Generator and radiator cooling fan for motor-. H. K. Kouyoumjian. No. 47,079; Mar. 9; Gaz. vol. 212; p. 671.
- Veiling. Z. Van Raalte. No. 46,920; Feb. 2; Gaz. vol. 211; p. 258.
- Vending-machine casing. C. L. Hughes. No. 48,321; Dec. 21; Gaz. vol. 221; p. 1015.
- Vessel, Spun metal. G. C. Kindt. No. 47,793; Sept. 7; Gaz. vol. 218; p. 291.
- Waist, Suspender-. L. S. Cooney. No. 47,710; Aug. 17; Gaz. vol. 217; p. 1006.
- Washboiler. C. Wacaser. No. 47,310; May 4; Gaz. vol. 214; p. 320.
- Washing implement, Clothes-. K. Ulrych. No. 47,548; July 6; Gaz. vol. 216; p. 320.
- Watch-charm. G. D. Berko. No. 48,343. Dec. 28; Gaz. vol. 221; p. 1422.
- Watch-charm. M. A. Lacey. No. 47,823; Sept. 14; Gaz. vol. 218; p. 581.
- Watch-fob. G. D. Berko. No. 48,342; Dec. 28; Gaz. vol. 221; p. 1422.
- Watch-fob. F. Büttler. No. 47,131; Mar. 23; Gaz. vol. 212; p. 1326.
- Watch-fob. H. Russell. No. 47,526; June 29; Gaz. vol. 215; p. 1491.
- Watch protector, Wrist-. L. E. F. Wachter. No. 48,268; Dec. 7; Gaz. vol. 221; p. 322.
- Watchcase. J. C. Gleason. No. 47,691; Aug. 10; Gaz. vol. 217; p. 653.
- Water-bag. C. H. Place. No. 47,827; Sept. 14; Gaz. vol. 218; p. 582.
- Water-closet bowl. A. Cochran. No. 46,923; Feb. 9; Gaz. vol. 211; p. 609.
- Water-cooler. G. D. Sailer. No. 47,474; June 15; Gaz. vol. 215; p. 970.
- Water-heater. H. J. Long. No. 47,960; Oct. 12; Gaz. vol. 219; p. 570.
- Water-heater casing. L. S. Chadwick. No. 47,685; Aug. 10; Gaz. vol. 217; p. 652.
- Water or liquid cooler. H. C. Jr., and M. Doering. No. 47,454; June 15; Gaz. vol. 215; p. 966.
- Weapon. F. Donas. No. 47,748; Aug. 24; Gaz. vol. 217; p. 1316.
- Weapon. A. Kula. No. 48,184; Nov. 23; Gaz. vol. 220; p. 1344.
- Weapon. M. Refermat. No. 47,700; Aug. 10; Gaz. vol. 217; p. 654.
- Weapon. A. Szenasy and M. Zserai. No. 47,904; Sept. 28; Gaz. vol. 218; p. 1139.
- Weapon. S. Szostak. No. 48,208; Nov. 23; Gaz. vol. 220; p. 1349.
- Weighing-machine casing. J. W. McMillan. No. 47,539; July 6; Gaz. vol. 216; p. 318.
- Wigwag signal. J. A. Bell. No. 47,576; July 20; Gaz. vol. 216; p. 995.
- Wind-shield frames, Tubing for. W. H. Thoeming. No. 47,868; Sept. 21; Gaz. vol. 218; p. 863.
- Window-cleaning implement. F. W. Hastings. No. 48,062; Nov. 2; Gaz. vol. 220; p. 329.
- Work-bench. R. L. Gordon. No. 47,995; Oct. 19; Gaz. vol. 219; p. 889.
- Wrench. H. P. Petersen. No. 47,435; June 8; Gaz. vol. 215; p. 640.
- Wrench. G. W. White. No. 47,977; Oct. 12; Gaz. vol. 219; p. 573.
- Wrench, Alligator-. A. E. Rice. No. 48,230; Nov. 30; Gaz. vol. 220; p. 1699.
- Zither-box. G. Mantei. No. 47,003; Feb. 23; Gaz. vol. 211; p. 1238.

ALPHABETICAL LIST OF TRADE-MARKS.

- Abdominal supporters and bandages, trusses, and suspensories. The Ohio Truss Co. No. 106,479; Oct. 19; Gaz. vol. 219; p. 925.
- Abrasive, detergent, and polishing materials, Certain. A/S Arendal Smelteverk. No. 105,632; Aug. 10; Gaz. vol. 217; p. 694.
- Abrasive, detergent, and polishing materials, Certain. LBO Company. No. 106,869; Nov. 2; Gaz. vol. 220; p. 344.
- Abrasive, detergent, and polishing materials, Certain named. McClinton's Limited. No. 102,881; Feb. 23; Gaz. vol. 211; p. 1261.
- Absorbent cotton and gauze, bandages, &c. Lewis Manufacturing Company. No. 103,242; Mar. 23; Gaz. vol. 212; p. 1354.
- Acid phosphate of calcium. Provident Chemical Works. No. 104,030; Apr. 27; Gaz. vol. 213; p. 1442.
- Adding and calculating machines. Firm of H. W. Egli. No. 104,868; June 22; Gaz. vol. 215; p. 1258.
- Adding-machines and combined adding and listing machines. Dalton Adding Machine Company. No. 103,049; Mar. 16; Gaz. vol. 212; p. 1050.
- Adhesive. E. A. Rogers. No. 106,182; Oct. 12; Gaz. vol. 219; p. 584.
- Adhesive paste. L. N. Adler. No. 103,079; Mar. 16; Gaz. vol. 212; p. 1051.
- Adhesives. Foster Chemical Co. No. 102,398; Feb. 9; Gaz. vol. 211; p. 635.
- Agate and enamel ware. Lalance & Grosjean Mfg. Co. No. 105,545; Aug. 3; Gaz. vol. 217; p. 336.
- Air-circulating apparatus. V. E. Mertz. No. 101,745; Jan. 12; Gaz. vol. 210; p. 709.
- Air-compressors, Electric. The Black & Decker Manufacturing Company. No. 107,731; Dec. 28; Gaz. vol. 221; p. 1445.
- Air-springs or pneumatic suspension for vehicles. The Westinghouse Air Spring Company. No. 107,410; Nov. 23; Gaz. vol. 220; p. 1370.
- Alcohol-measuring apparatus and condenser water-meters. Gebruder Siemens & Company. No. 104,674; June 8; Gaz. vol. 215; p. 663.
- Alcohol, Solidified. The Solakol Company. No. 107,794; Dec. 28; Gaz. vol. 221; p. 1447.
- Ale, beer, and stout. Holland System, Inc. No. 102,631; Feb. 16; Gaz. vol. 211; p. 953.
- Ale, cluo-soda, grape-juice, Ginger-. Abraham & Straus. No. 107,134; Nov. 16; Gaz. vol. 220; p. 1035.
- Ale, porter, and lager-beer. The James Hanley Brewing Company. Nos. 106,432-5; Oct. 19; Gaz. vol. 219; p. 924.
- Alfalfa for feed. Virginia Alfalfa Corporation. No. 104,521; June 1; Gaz. vol. 215; p. 319.
- Alfalfa-seed. S. Bullock. No. 107,046; Nov. 9; Gaz. vol. 220; p. 672.
- Alimentary paste. American Macaroni Co. No. 102,012; Jan. 26; Gaz. vol. 210; p. 1387.
- Alimentary paste products. Southern Macaroni Mfg. Co. No. 105,400; July 20; Gaz. vol. 216; p. 1009.
- Alimentary paste products and cereal breakfast food. Skinner Mfg. Co. No. 104,652; June 8; Gaz. vol. 215; p. 663.
- Alimentary pastes. Anger-Brohel Co. No. 107,592; Dec. 14; Gaz. vol. 221; p. 731.
- Alimentary preparations used in medicine. Emil Scheller & Co., A. G. No. 106,803; Oct. 26; Gaz. vol. 219; p. 1235.
- Alkaline antiseptic and a non-toxic prophylactic preparation. W. G. Geety. No. 106,229; Oct. 19; Gaz. vol. 219; p. 918.
- Alloy. G. A. Joyce. No. 102,523; Feb. 9; Gaz. vol. 211; p. 638.
- Alloy and castings made therefrom. Metal. Doehler Die Casting Co. No. 104,795; June 15; Gaz. vol. 215; p. 974.
- Alloy. Gold. L. Leber & Son. No. 105,300; July 13; Gaz. vol. 216; p. 660.
- Alloy of metals in imitation of silver, Certain named articles made of. Fishel & Company. Nos. 103,584-6; Apr. 6; Gaz. vol. 213; p. 356.
- Alloy used as a filling for teeth, Certain metal. I. Stern & Co. No. 102,460; Feb. 9; Gaz. vol. 211; p. 637.
- Alterative mixture, tonic, and laxative. Nyal Company. No. 106,478; Oct. 19; Gaz. vol. 219; p. 925.
- Aluminum and enameled iron ware, Hollow. Geo. Borgfeldt & Co. No. 102,673; Feb. 23; Gaz. vol. 211; p. 1255.
- Aluminum and enameled metal ware. Geo. Borgfeldt & Co. No. 104,413; May 25; Gaz. vol. 214; p. 1317.
- Aluminum and enameled metal ware, Hollow. Geo. Borgfeldt & Co. No. 102,675; Feb. 23; Gaz. vol. 211; p. 1255.
- Aluminum and enameled metal ware, Hollow. Geo. Borgfeldt & Co. Nos. 103,218-19; Mar. 23; Gaz. vol. 212; p. 1353.
- Aluminum, magnesium, and aluminum-magnesium alloys. Magnalium-Industrie Gesellschaft m. b. H. No. 106,877; Nov. 2; Gaz. vol. 220; p. 344.
- Aluminum ware. The Cleveland Metal Products Company. No. 102,510; Feb. 9; Gaz. vol. 211; p. 638.
- Aluminum ware. The Massillon Aluminum Co. No. 103,787; Apr. 13; Gaz. vol. 213; p. 743.
- Aluminum ware and wire screens. Hardware Buyers Association. No. 104,611; June 8; Gaz. vol. 215; p. 661.
- Aluminum ware, Hollow. Geo. Borgfeldt & Co. No. 104,928; June 29; Gaz. vol. 215; p. 1493.
- Ammonia and bluing. So-Jer Manufacturing Company. No. 105,990; Sept. 7; Gaz. vol. 218; p. 317.
- Ammonia, Anhydrous. The National Ammonia Company. No. 102,432; Feb. 9; Gaz. vol. 211; p. 636.
- Ammonia, Aqua and anhydrous. Pacific Ammonia & Chemical Co. No. 105,469; July 27; Gaz. vol. 216; p. 1314.
- Amusement apparatus. W. F. Mangels. No. 103,106; Mar. 16; Gaz. vol. 212; p. 1052.
- Anchovies, pies, patties, pepper, &c. Crosse & Blackwell. No. 103,689; Apr. 13; Gaz. vol. 213; p. 740.
- Anesthetics. G. W. Edwards. No. 106,755; Oct. 26; Gaz. vol. 219; p. 1233.
- Anesthetics, Local. L. J. Smith. No. 101,881; Jan. 12; Gaz. vol. 210; p. 713.
- Anesthetics, obtundents, &c. Genung & Mayer. No. 104,507; June 1; Gaz. vol. 215; p. 319.
- Ankle and athletic supporters, wristbands. H. J. Collis. No. 103,340; Mar. 30; Gaz. vol. 212; p. 1685.
- Ankle-supporters and wristbands. Athletic. H. J. Collis. No. 104,300; May 18; Gaz. vol. 214; p. 1021.
- Antipyretic. The Bayer Company. No. 106,829; Nov. 2; Gaz. vol. 220; p. 343.
- Antirheumatic. The Bayer Company. No. 106,200; Oct. 19; Gaz. vol. 219; p. 917.
- Antiseptic. Hello-Boy Manufacturing Company. No. 104,726; June 15; Gaz. vol. 215; p. 972.
- Antiseptic and disinfectant preparation. Van Antwerp's Drug Corporation. No. 107,798; Dec. 28; Gaz. vol. 221; p. 1447.
- Antiseptic and styptic applicators, Individual. L. S. Irgens. No. 103,898; Apr. 20; Gaz. vol. 213; p. 1112.
- Antiseptic compound. Sazel Corporation. Nos. 102,184-5; Jan. 26; Gaz. vol. 210; p. 1392.
- Antiseptic compound for certain named ailments. C. C. Sparing. No. 105,925; Aug. 24; Gaz. vol. 217; p. 1337.
- Antiseptic compound for general use. Comar & Cie. No. 105,975; Sept. 7; Gaz. vol. 218; p. 317.
- Antiseptic compound for local applications and as a gargle. The Weatherhead Drug Company. No. 102,318; Feb. 2; Gaz. vol. 211; p. 281.
- Antiseptic fluid having medicinal properties. F. M. Pushlin. No. 105,700; Aug. 10; Gaz. vol. 217; p. 696.
- Antiseptic, Liquid. Steenol Laboratories. No. 103,802; Apr. 13; Gaz. vol. 213; p. 744.
- Antiseptic, Powdered. J. Rubel. No. 105,141; July 6; Gaz. vol. 216; p. 324.
- Antiseptic preparation. H. Eagle. No. 105,344; July 20; Gaz. vol. 216; p. 1008.
- Antiseptic preparation, Alkaline. Bristol-Myers Company. No. 105,416; July 20; Gaz. vol. 216; p. 1010.
- Antiseptic solution. M. Landesman. No. 105,487; July 27; Gaz. vol. 216; p. 1314.
- Antiseptics for internal and external use. Dr. E. Riltser. No. 107,098; Nov. 9; Gaz. vol. 220; p. 674.
- Antiseptics, germicides, and deodorants. General Purification Co. Nos. 107,167-8; Nov. 16; Gaz. vol. 220; p. 1036.
- Antitoxin, opsonin, and general antiseptic. E. W. Pierce. No. 106,493; Oct. 19; Gaz. vol. 219; p. 926.
- Aperient or laxative. F. K. Stearns. No. 103,183; Mar. 16; Gaz. vol. 212; p. 1054.
- Apparel, Certain named female. Bonwit, Teller & Co. No. 107,597; Dec. 14; Gaz. vol. 221; p. 731.
- Apparel, Certain named wearing-. F. Simon. No. 106,807; Oct. 26; Gaz. vol. 219; p. 1235.
- Apparel, Children's and infants' wearing-. J. Joseph. No. 101,742; Jan. 12; Gaz. vol. 210; p. 709.
- Apple-butter. R. F. Brinton. No. 104,285; May 18; Gaz. vol. 214; p. 1021.
- Apples and peaches, Fresh. Piedmont Orchard Co. No. 102,339; Feb. 9; Gaz. vol. 211; p. 633.
- Apples and peaches, Fresh. Spokane Fruit Growers Co. No. 104,132; May 4; Gaz. vol. 214; p. 339.

- Apples, Fresh. Touchet Valley Growers Union. No. 102,462; Feb. 9; Gaz. vol. 211; p. 637.
- Apples, Fresh raw. J. K. Exall & Co. No. 106,953; Nov. 9; Gaz. vol. 220; p. 620.
- Apples, peaches, berries, vegetables, &c. G. W. Kuchler. No. 107,074; Nov. 9; Gaz. vol. 220; p. 673.
- Application for relief of certain named affections, External. Big Six Co. No. 107,595; Dec. 14; Gaz. vol. 221; p. 731.
- Application for relief of certain named ailments. A. C. Trump. No. 103,575; Apr. 6; Gaz. vol. 213; p. 356.
- Application for relief of certain named ailments and sickness. Daggett & Ramsdell. No. 105,156; July 6; Gaz. vol. 216; p. 324.
- Aprons. L. H. Clark Mfg. Co. No. 105,716; Aug. 17; Gaz. vol. 217; p. 1049.
- Aprons. A. Kaplan. No. 104,289; May 18; Gaz. vol. 214; p. 1021.
- Aprons. R. H. Macy & Company. No. 106,641; Oct. 26; Gaz. vol. 219; p. 1230.
- Aquaria, Glass. N. Wapler. No. 106,714; Oct. 26; Gaz. vol. 219; p. 1232.
- Arches, Iron and sugaring-off. The Leader Evaporator Co. No. 105,215; July 13; Gaz. vol. 216; p. 658.
- Art reproductions and facsimile oil-paintings. Our Art Department. No. 107,093; Nov. 9; Gaz. vol. 220; p. 674.
- Articles made of certain named materials, (not precious metal). Geo. Borgfeldt & Co. No. 104,704; June 15; Gaz. vol. 215; p. 971.
- Artificial stone, Certain named articles made from. Hall Concrete-Products Company. No. 103,348; Mar. 30; Gaz. vol. 212; p. 1685.
- Asbestos or other fibrous composition held together with fire-resisting binder. Pressed Asbestos Products Co. No. 103,597; Apr. 6; Gaz. vol. 213; p. 357.
- Asphaltum. Anglo Mexican Petroleum Products Company. No. 104,282; May 18; Gaz. vol. 214; p. 1021.
- Asphaltum product of crude oil for paving, roofing, &c. Standard Oil Company. No. 101,882; Jan. 12; Gaz. vol. 210; p. 713.
- Asphyxiated or apparently-drowned persons. Apparatus for reviving or resuscitating. Siebe, Gorman & Co. No. 104,890; June 22; Gaz. vol. 215; p. 1259.
- Asthma, Treatment for. Nu-Life Remedy Co. No. 107,088; Nov. 9; Gaz. vol. 220; p. 674.
- Astringent, Intestinal. The Bayer Company. No. 107,144; Nov. 16; Gaz. vol. 220; p. 1035.
- Atomizers and nebulizers. The De Vilbiss Manufacturing Company. No. 102,068; Jan. 26; Gaz. vol. 210; p. 1389.
- Auger-bits. The Irwin Auger Bit Company. No. 101,741; Jan. 12; Gaz. vol. 210; p. 709.
- Autographic registers and manifold devices, parts thereof, &c. The Egly Register Company. No. 102,939; Mar. 2; Gaz. vol. 212; p. 324.
- Automobile and motor-cycle accessories. Garage Equipment Manufacturing Company. No. 102,838; Feb. 23; Gaz. vol. 211; p. 1260.
- Automobile-frames, side rails, motor-pans, &c. The Hydraulic Pressed Steel Company. No. 107,553; Dec. 7; Gaz. vol. 221; p. 347.
- Automobile-horns. Mecca Manufacturing & Specialty Co. No. 107,624; Dec. 14; Gaz. vol. 221; p. 732.
- Automobile-horns, Electrical. H. W. Johns-Manville Co. No. 101,640; Jan. 5; Gaz. vol. 210; p. 394.
- Automobile-jacks. W. L. Widlar. No. 105,282; July 13; Gaz. vol. 216; p. 660.
- Automobile-locks. G. T. Trundle, Jr. No. 105,029; June 29; Gaz. vol. 215; p. 1496.
- Automobile-polish. W. C. Strawn. No. 103,128; Mar. 16; Gaz. vol. 212; p. 1053.
- Automobile steering appliance. W. H. Housman. No. 107,685; Dec. 21; Gaz. vol. 221; p. 1035.
- Automobile, &c., steering-wheels, Hand-grip for. Interstate Electric Co. No. 106,235; Oct. 19; Gaz. vol. 219; p. 918.
- Automobile top-holders and parts and automobile bow-hinges. Auto Specialties Manufacturing Co. No. 102,871; Feb. 23; Gaz. vol. 211; p. 1261.
- Automobile tops or covers. Ford Knock Down Winter Top Co. No. 105,998; Sept. 14; Gaz. vol. 218; p. 599.
- Automobile, vehicle, furniture, floor, &c., polish. F. S. Chance & Son. No. 107,051; Nov. 9; Gaz. vol. 220; p. 673.
- Automobiles. Chalmers Motor Company. Nos. 107,545-6; Dec. 7; Gaz. vol. 221; p. 347.
- Automobiles. Chandler Motor Car Company. No. 107,153; Nov. 16; Gaz. vol. 220; p. 1035.
- Automobiles. The Cummins Auto Sales Co. No. 105,720; Aug. 17; Gaz. vol. 217; p. 1049.
- Automobiles. Dodge Brothers. No. 103,779; Apr. 13; Gaz. vol. 213; p. 743.
- Automobiles. The Garford Company. No. 102,561; Feb. 16; Gaz. vol. 211; p. 951.
- Automobiles. Pilot Motor Car Co. No. 106,795; Oct. 26; Gaz. vol. 219; p. 1234.
- Automobiles. Societe "Ing. P. Pestalozza & C." No. 101,633; Jan. 5; Gaz. vol. 210; p. 394.
- Automobiles. Standard Steel Car Company. No. 107,394; Nov. 23; Gaz. vol. 220; p. 1369.
- Automobiles. The Thomas B. Jeffery Company. No. 101,950; Jan. 19; Gaz. vol. 210; p. 1060.
- Automobiles. The Wolseley Tool and Motor Car Company. No. 106,276; Oct. 19; Gaz. vol. 219; p. 919.
- Automobiles. Woods Mobillette Company. No. 102,727; Feb. 23; Gaz. vol. 211; p. 1257.
- Automobiles and buggies. F. A. Ames. No. 107,485; Dec. 7; Gaz. vol. 221; p. 345.
- Automobiles and parts thereof. Mecca Manufacturing & Specialty Co. No. 107,360; Nov. 23; Gaz. vol. 220; p. 1368.
- Automobiles, cycle-cars, and motor-cycles. W. I. Twombly. No. 104,355; May 25; Gaz. vol. 214; p. 1315.
- Automobiles, motor-vehicles, and parts thereof. Chevrolet Motor Company. No. 104,903; June 22; Gaz. vol. 215; p. 1259.
- Axles and springs, Vehicle. Sheldon Axle and Spring Company. No. 105,676; Aug. 10; Gaz. vol. 217; p. 696.
- Babbitt metals. Virginia Iron & Metal Company. Nos. 103,740-1; Apr. 13; Gaz. vol. 213; p. 742.
- Baby jumpers or exercisers. L. P. Whitcomb. No. 102,233; Jan. 26; Gaz. vol. 210; p. 1393.
- Baby-pants. I. B. Kleinert Rubber Company. No. 105,419; July 20; Gaz. vol. 216; p. 1010.
- Bacon. J. C. C. Waldeck. No. 107,123; Nov. 9; Gaz. vol. 220; p. 675.
- Bacon. J. C. C. Waldeck. Nos. 107,125-7; Nov. 9; Gaz. vol. 220; p. 675.
- Baggage-checks. American Sales and Service Co. No. 102,350; Feb. 9; Gaz. vol. 211; p. 633.
- Baggage, horse equipments, portfolios, &c. Compagnie Francaise De La Chamoiserie Nouvelle. No. 102,062; Jan. 26; Gaz. vol. 210; p. 1388.
- Bagging. M. M. Graves Co. No. 107,610; Dec. 14; Gaz. vol. 221; p. 732.
- Bags and hand-grips. Travelers'. Kennedy Manufacturing Company. No. 104,330; May 18; Gaz. vol. 214; p. 1022.
- Bags, Cotton. Amoskeag Manufacturing Company. No. 102,017; Jan. 26; Gaz. vol. 210; p. 1387.
- Bags, Cotton. Amoskeag Manufacturing Company. Nos. 102,954-5; Mar. 9; Gaz. vol. 212; p. 685.
- Bags, Cotton. Amoskeag Manufacturing Company. No. 105,684; Aug. 10; Gaz. vol. 217; p. 696.
- Bags, Cotton. Boot Mills. No. 106,401; Oct. 19; Gaz. vol. 219; p. 923.
- Bags, Leather vanity-. H. S. Rains. No. 104,126; May 4; Gaz. vol. 214; p. 339.
- Bait, Artificial. J. K. Rush. No. 104,991; June 29; Gaz. vol. 215; p. 1495.
- Bait for fishing, Artificial. Edw. K. Tryon Company. No. 105,622; Aug. 10; Gaz. vol. 217; p. 694.
- Bakers' and confectioners' appliances, Certain named. J. C. Montague. No. 107,423; Nov. 23; Gaz. vol. 220; p. 1370.
- Baking-pans. The August Maag Co. No. 102,926; Mar. 2; Gaz. vol. 212; p. 324.
- Baking-powder. Calumet Baking Powder Company. No. 103,276; Mar. 30; Gaz. vol. 212; p. 1683.
- Baking-powder. Dean & Co. No. 107,056; Nov. 9; Gaz. vol. 220; p. 673.
- Baking-powder. Egg Baking Powder Company. No. 105,979; Sept. 7; Gaz. vol. 218; p. 317.
- Baking-powder. Elite Baking Powder Co. No. 103,023; Mar. 16; Gaz. vol. 212; p. 1050.
- Baking-powder. General Chemical Company. No. 104,798; June 15; Gaz. vol. 215; p. 974.
- Baking-powder. Gowan-Lenning-Brown Co. No. 101,633; Jan. 5; Gaz. vol. 210; p. 393.
- Baking-powder. J. C. Grant Chemical Company. No. 101,846; Jan. 12; Gaz. vol. 210; p. 712.
- Baking-powder. Grocers Chemical Works. No. 104,767; June 15; Gaz. vol. 215; p. 973.
- Baking-powder. M. Hentges. No. 103,753; Apr. 13; Gaz. vol. 213; p. 742.
- Baking-powder. Kansas City Wholesale Grocery Co. No. 107,688; Dec. 21; Gaz. vol. 221; p. 1035.
- Baking-powder. Kroger Grocery & Baking Co. No. 102,632; Feb. 16; Gaz. vol. 211; p. 955.
- Baking-powder. McKnight-Keaton Grocery Co. No. 106,351; Oct. 19; Gaz. vol. 219; p. 922.
- Baking-powder. Mohawk Mfg. Co. No. 105,552; Aug. 3; Gaz. vol. 217; p. 336.
- Baking-powder. D. & L. Slade Co. No. 102,869; Feb. 23; Gaz. vol. 211; p. 1261.
- Baking-powder. The Southern Mfg Co. No. 103,920; Apr. 20; Gaz. vol. 213; p. 1113.
- Baking-powder. R. C. Staples Chemical Company. No. 104,754; June 15; Gaz. vol. 215; p. 972.
- Baking powder and soda. Layton Pure Food Company. No. 102,976; Mar. 9; Gaz. vol. 212; p. 685.
- Baking-powder, baking and washing soda, starch, &c. Klauber Wangenheim Co. No. 101,957; Jan. 19; Gaz. vol. 210; p. 1061.
- Baking-powder, cream of tartar, &c. Klauber Wangenheim Co. No. 101,784; Jan. 12; Gaz. vol. 210; p. 710.
- Baking soda and powder, bluing, and ammonia. National Grocery Company. No. 104,472; June 1; Gaz. vol. 215; p. 318.
- Baling-presses. The Davenport Manufacturing Co. No. 104,144; May 4; Gaz. vol. 214; p. 339.

Alphabetical list of trade-marks—Continued.

- Ball bats, Base-. J. F. Hillerich & Son Co. No. 105,816; Aug. 17; Gaz. vol. 217; p. 1052.
- Ball for exercising, Light. A. J. Reach Co. No. 102,173; Jan. 26; Gaz. vol. 210; p. 1392.
- Ball-pitching machines, Base-. Reynolds Base-Ball Pitching Machine Co. No. 106,901; Nov. 2; Gaz. vol. 220; p. 345.
- Balls and rollers, Metal. The Norma Company. No. 107,498; Dec. 7; Gaz. vol. 221; p. 346.
- Balls, Base-. J. de Beer. No. 105,642; Aug. 10; Gaz. vol. 217; p. 695.
- Balls, Golf-. The Worthington Ball Company. No. 107,035; Nov. 9; Gaz. vol. 220; p. 672.
- Balls, Rubber. Lambertville Rubber Co. Nos. 105,664-5; Aug. 10; Gaz. vol. 217; p. 695.
- Balls, Rubber and gutta-percha. The Santo Rubber Co. No. 101,650; Jan. 5; Gaz. vol. 210; p. 394.
- Balm, Nasal. E. Powers. No. 106,898; Nov. 2; Gaz. vol. 220; p. 345.
- Bandannas, handkerchiefs, neckerchiefs, and shawls. Geo. Borgfeldt & Co. Nos. 102,674-5; Feb. 23; Gaz. vol. 211; p. 1255.
- Barium and sodium products and compounds. Baryta Manufacturing Co. No. 107,235; Nov. 16; Gaz. vol. 220; p. 1038.
- Barium compounds. Barbour Chemical Works. No. 104,857; June 22; Gaz. vol. 215; p. 1258.
- Barley, wheat, peas, pepper, and malt. L. Kohn. No. 105,734; Aug. 17; Gaz. vol. 217; p. 1049.
- Bars, billets, castings, forgings, &c., of pure iron. The American Rolling Mill Co. No. 104,245; May 11; Gaz. vol. 214; p. 678.
- Base-balls. J. de Beer. No. 105,186; July 13; Gaz. vol. 216; p. 657.
- Bath apparatus, Shower-. J. H. McElroy. No. 101,788; Jan. 12; Gaz. vol. 210; p. 711.
- Bath-garments. Ward Meehan Company. No. 106,531; Oct. 19; Gaz. vol. 219; p. 927.
- Bath preparations, Foot-. The Bromo Remedy Co. No. 107,412; Nov. 23; Gaz. vol. 220; p. 1370.
- Bath-room trimmings and fittings, Vitreous-china. Thomas Maddock's Sons Company. No. 106,458; Oct. 19; Gaz. vol. 219; p. 925.
- Bathing-suits and woven swimming-tights. Max Mayer & Sons Co. No. 103,172; Mar. 16; Gaz. vol. 212; p. 1054.
- Bats. E. Schwalm. No. 105,277; July 13; Gaz. vol. 216; p. 660.
- Batteries and arc-lamps, Secondary. Hellos Manufacturing Company. No. 104,325; May 18; Gaz. vol. 214; p. 1022.
- Batteries and arc-lamps, Secondary. Hellos Manufacturing Company. No. 105,591; Aug. 10; Gaz. vol. 217; p. 693.
- Batteries, Dry. The Champion Carbon Company. No. 101,914; Jan. 19; Gaz. vol. 210; p. 1059.
- Batteries, Dry. National Carbon Company. No. 106,007; Sept. 14; Gaz. vol. 218; p. 599.
- Batteries, Dry. Williams Articulator Company. No. 107,033; Nov. 9; Gaz. vol. 220; p. 672.
- Batteries, Electric. Bright Star Battery Co. Nos. 105,037-8; July 6; Gaz. vol. 216; p. 321.
- Batteries, Electric. Interstate Electric Novelty Company. No. 101,850; Jan. 12; Gaz. vol. 210; p. 712.
- Batteries, Electric. National Carbon Company. No. 103,069; Mar. 16; Gaz. vol. 212; p. 1051.
- Batteries, Electric. National Carbon Company. No. 103,269; Mar. 23; Gaz. vol. 212; p. 1355.
- Batteries, Electric storage. The Prest-O-Lite Company. No. 107,006; Nov. 9; Gaz. vol. 220; p. 671.
- Batteries, fire-alarm boxes, electric lanterns, &c., Dry. J. H. Bunnell & Co. No. 104,176; May 4; Gaz. vol. 214; p. 340.
- Batteries, Open-circuit electric. Samson Electric Company. No. 101,876; Jan. 12; Gaz. vol. 210; p. 713.
- Batteries, Storage. Victor Storage Battery Co. No. 106,917; Nov. 2; Gaz. vol. 220; p. 346.
- Batteries, Storage. The Willard Storage Battery Co. No. 106,275; Oct. 19; Gaz. vol. 219; p. 919.
- Battery-jars. India Rubber Company. No. 104,410; May 25; Gaz. vol. 214; p. 1317.
- Battery plates or electrodes, Storage-. Gould Storage Battery Company. No. 105,391; July 20; Gaz. vol. 216; p. 1009.
- Battery solution, Primary and secondary. L. & M. Auto Specialty Co. No. 104,096; Apr. 27; Gaz. vol. 213; p. 1444.
- Beads and buttons, Ornamental. American Bead Company. No. 105,331; July 20; Gaz. vol. 216; p. 1007.
- Beans, Dried. The Aplin Company. No. 107,752; Dec. 28; Gaz. vol. 221; p. 1445.
- Bearing metal. R. E. Rich. No. 103,362; Mar. 30; Gaz. vol. 212; p. 1685.
- Bearing retainers, Ball-. Bearings Company of America. Nos. 104,787-8; June 15; Gaz. vol. 215; p. 973.
- Bearings. Flint and Walling Manufacturing Co. No. 107,324; Nov. 23; Gaz. vol. 220; p. 1367.
- Bearings. John Wigmore & Sons Co. No. 102,348; Feb. 9; Gaz. vol. 211; p. 633.
- Bearings and their parts, Ball and roller. The Norma Company of America. No. 107,501; Dec. 7; Gaz. vol. 221; p. 346.
- Bearings, Antifriction-. Pressed Steel Manufacturing Company. No. 104,231; May 11; Gaz. vol. 214; p. 678.
- Bearings, Ball-. Nordiska Kullager Aktiebolaget. No. 106,659; Oct. 26; Gaz. vol. 219; p. 1230.
- Bearings, bearing hanger-boxes, balls, &c., Antifriction. The Fafnir Bearing Company. No. 104,534; June 1; Gaz. vol. 215; p. 320.
- Bearings, collars, couplings, hangers, &c. Bond Foundry & Machine Co. No. 102,249; Feb. 2; Gaz. vol. 211; p. 279.
- Bed-springs. Fort Pitt Bedding Co. No. 104,765; June 15; Gaz. vol. 215; p. 973.
- Bed-springs. Fort Pitt Bedding Co. No. 105,159; July 6; Gaz. vol. 216; p. 324.
- Beds. Hill and Dreyer Mfg. Co. No. 102,098; Jan. 26; Gaz. vol. 210; p. 1389.
- Beds. The C. F. Streit Mfg. Co. No. 105,764; Aug. 17; Gaz. vol. 217; p. 1050.
- Beds, bed springs and mattresses, and material therefor. New York Couch Bed Co. No. 104,061; Apr. 27; Gaz. vol. 213; p. 1443.
- Beds, chairs, cots, &c. Gold Medal Camp Furniture Manufacturing Co. No. 101,939; Jan. 19; Gaz. vol. 210; p. 1060.
- Beds, cushions, and pillows, water beds and cushions, Air. Maryland Rubber Company. No. 102,135; Jan. 26; Gaz. vol. 210; p. 1391.
- Bedbug, roach, and ant killer. L. Shapiro. No. 106,373; Oct. 19; Gaz. vol. 219; p. 922.
- Bedspreads, pillow-cases, sheets, blankets, &c. The Tremont Stores. No. 107,457; Nov. 30; Gaz. vol. 220; p. 1715.
- Bee-escapes. M. E. Porter. No. 105,868; Aug. 24; Gaz. vol. 217; p. 1336.
- Beef, bloaters, smoked herring, &c., Dried. Rust-Parker-Martin Company. No. 104,129; May 4; Gaz. vol. 214; p. 339.
- Beef, Sliced dried. Libby, McNeill & Libby. No. 107,430; Nov. 23; Gaz. vol. 220; p. 1370.
- Beefs, meat extract, bouillon, &c., cubes, Fluid. Liebig's Extract of Meat Company. No. 102,421; Feb. 9; Gaz. vol. 211; p. 636.
- Beer. Abner-Drury Brewing Co. No. 105,573; Aug. 10; Gaz. vol. 217; p. 693.
- Beer. Auto City Brewing Company. No. 107,510; Dec. 7; Gaz. vol. 221; p. 346.
- Beer. Bartels Brewing Company. No. 102,025; Jan. 26; Gaz. vol. 210; p. 1387.
- Beer. Clausen-Flanagan Brewery. No. 103,256; Mar. 23; Gaz. vol. 212; p. 1354.
- Beer. German American Brewing Co. No. 104,303; May 18; Gaz. vol. 214; p. 1021.
- Beer. The John Hauck Brewing Company. Nos. 104,386-7; May 25; Gaz. vol. 214; p. 1316.
- Beer. H. Ilse. No. 104,833; June 22; Gaz. vol. 215; p. 1257.
- Beer. Independent Brewing Ass'n. No. 104,688; June 8; Gaz. vol. 215; p. 664.
- Beer. Independent Brewing Company of Pittsburgh. Nos. 106,104-7; Oct. 12; Gaz. vol. 219; p. 581.
- Beer. The Kamm & Schellinger Brewing Co. No. 104,171; May 4; Gaz. vol. 214; p. 340.
- Beer. S. Liebmann's Sons Brewing Company. No. 101,960; Jan. 19; Gaz. vol. 210; p. 1061.
- Beer. S. Liebmann's Sons Brewing Company. Nos. 102,124-5; Jan. 26; Gaz. vol. 210; p. 1390.
- Beer. Fred Miller Brewing Co. No. 107,578; Dec. 14; Gaz. vol. 221; p. 731.
- Beer. Ferdinand Neuner, Inc. No. 104,949; June 29; Gaz. vol. 215; p. 1493.
- Beer. Obermeyer & Liebmann. No. 103,358; Mar. 30; Gaz. vol. 212; p. 1685.
- Beer. Pittsburgh Brewing Company. No. 102,637; Feb. 16; Gaz. vol. 211; p. 953.
- Beer. Pittsburgh Brewing Company. No. 103,596; Apr. 6; Gaz. vol. 213; p. 357.
- Beer. Pittsburgh Brewing Company. No. 104,479; June 1; Gaz. vol. 215; p. 318.
- Beer. George Ringler & Company. No. 107,285; Nov. 16; Gaz. vol. 220; p. 1039.
- Beer. Sandlerbräu Ges. m. b. Hftg. No. 103,036; Mar. 16; Gaz. vol. 212; p. 1050.
- Beer. Seattle Brewing and Malting Co. No. 101,651; Jan. 5; Gaz. vol. 210; p. 394.
- Beer. Seattle Brewing and Malting Co. No. 106,124; Oct. 12; Gaz. vol. 219; p. 582.
- Beer. Standard Brewing Co. No. 107,295; Nov. 16; Gaz. vol. 220; p. 1040.
- Beer. I. Sumida. Nos. 107,565-6; Dec. 7; Gaz. vol. 221; p. 348.
- Beer. The Thieme & Wagner Brewing Co. No. 105,947; Aug. 31; Gaz. vol. 217; p. 1657.
- Beer. Wacker & Birk Brewing Co. No. 103,771; Apr. 13; Gaz. vol. 213; p. 743.
- Beer. The Walter Brewing Co. No. 104,896; June 22; Gaz. vol. 215; p. 1259.
- Beer. The Wetterer Brewing Company. No. 105,569; Aug. 3; Gaz. vol. 217; p. 537.
- Beer, ale, and porter. Obermeyer & Liebmann. No. 102,808; Feb. 23; Gaz. vol. 211; p. 1259.
- Beer, Bottled. Houston Ice & Brewing Co. No. 102,895; Mar. 2; Gaz. vol. 212; p. 323.

- Beer, Bottled. Schwenk-Barth Brewing Co. No. 107,864; Dec. 28; Gaz. vol. 221; p. 1449.
- Beer, Lager-. American Brewing Co. No. 105,969; Sept. 7; Gaz. vol. 218; p. 317.
- Beer, Lager-. The Gottlieb Bauernschmidt Straus Brewing Company. No. 103,853; Apr. 20; Gaz. vol. 213; p. 1111.
- Beer, Lager-. The Gottlieb Bauernschmidt Straus Brewing Company. No. 104,610; June 8; Gaz. vol. 215; p. 661.
- Beer, Lager-. The Gottlieb Bauernschmidt Straus Brewing Company. No. 106,763; Oct. 26; Gaz. vol. 219; p. 1233.
- Beer, Lager-. Voigt Brewery Co. No. 106,022; Sept. 14; Gaz. vol. 218; p. 600.
- Beer, porter, ale. The Kittanning Brewing Co. No. 101,783; Jan. 12; Gaz. vol. 210; p. 710.
- Belt-fastening plates and rivets for machinery-belt. Crescent Belt Fastener Company. No. 102,628; Feb. 16; Gaz. vol. 211; p. 953.
- Belt hooks, fasteners, and pins. Clipper Belt Lacer Co. No. 106,741; Oct. 26; Gaz. vol. 219; p. 1233.
- Belt-lacing. Cut. Chas. A. Schieren Company. No. 103,680; Apr. 13; Gaz. vol. 213; p. 740.
- Belts, Abdominal. The Well Corset Co. No. 104,500; June 1; Gaz. vol. 215; p. 319.
- Belts, Apparel-. United Jewelers Inc. No. 102,950; Mar. 2; Gaz. vol. 212; p. 325.
- Belts for personal wear. Brewer Belt and Buckle Company. No. 102,368; Feb. 9; Gaz. vol. 211; p. 634.
- Belting and hose. E. L. Burrell. No. 104,863; June 22; Gaz. vol. 215; p. 1258.
- Belting, Fabric. C. P. Landreth. No. 106,452; Oct. 19; Gaz. vol. 219; p. 925.
- Belting fastener, Machinery-. W. S. Langford. No. 106,633; Oct. 26; Gaz. vol. 219; p. 1229.
- Belting, Hair. "Scandinavia" Belting Ltd. No. 105,143; July 6; Gaz. vol. 216; p. 324.
- Belting, hose, and machinery packing. The Republic Rubber Company. No. 105,755; Aug. 17; Gaz. vol. 217; p. 1050.
- Belting, hose, machinery packing, and tires, Certain named. Montgomery Ward & Co. No. 105,667; Aug. 10; Gaz. vol. 217; p. 695.
- Belting, hose, machinery packing, &c., Certain named. J. W. Buckley Rubber Co. No. 107,600; Dec. 14; Gaz. vol. 221; p. 732.
- Belting, Leather. Fabreka Belting Co. No. 103,422; Apr. 6; Gaz. vol. 213; p. 351.
- Belting, Leather. C. Nitta. No. 104,776; June 15; Gaz. vol. 215; p. 973.
- Belting, Leather. Olmsted Flint Company. Nos. 106,991-2; Nov. 9; Gaz. vol. 220; p. 671.
- Belting, Stitched canvas. The Carton Belting Company. No. 105,289; July 13; Gaz. vol. 216; p. 660.
- Beltings, Leather. Chas. L. Ireson (Inc.) No. 103,876; Apr. 20; Gaz. vol. 213; p. 1112.
- Beverage and syrup for making same. H. C. Ferguson. No. 106,073; Oct. 5; Gaz. vol. 219; p. 267.
- Beverage and syrup for making same, Carbonated non-alcoholic. Brecht & Richter Company. No. 107,599; Dec. 14; Gaz. vol. 221; p. 732.
- Beverage and syrup for making same, Carbonated non-alcoholic. H. B. Weed. No. 105,475; July 27; Gaz. vol. 216; p. 1314.
- Beverage and syrup for making same, Non-alcoholic carbonated. J. C. O'Dell. No. 103,326; Mar. 30; Gaz. vol. 212; p. 1684.
- Beverage, Carbonated effervescent. Citro Chemical Co. of America. No. 105,648; Aug. 10; Gaz. vol. 217; p. 695.
- Beverage compound, Food-. Postum Cereal Co. No. 107,527; Dec. 7; Gaz. vol. 221; p. 347.
- Beverage, Grape. H. H. Fries. No. 105,840; Aug. 24; Gaz. vol. 217; p. 1335.
- Beverage made from a beer base carbonated. Jacob Ries Bottling Works. No. 103,444; Apr. 6; Gaz. vol. 213; p. 352.
- Beverage made from raisin-juice, Non-alcoholic. National Fruit Products Company of California. No. 102,336; Feb. 9; Gaz. vol. 211; p. 633.
- Beverage, Non-alcoholic. Northwest Fruit Products Co. No. 107,558; Dec. 7; Gaz. vol. 221; p. 347.
- Beverage, Non-alcoholic and carbonated. Glee-Cola Co. No. 104,830; June 22; Gaz. vol. 215; p. 1257.
- Beverage, Non-alcoholic carbonated. Golden Grain Juice Company. No. 105,893; Aug. 24; Gaz. vol. 217; p. 1336.
- Beverage, Non-alcoholic carbonated. R. S. Patterson. No. 106,176; Oct. 12; Gaz. vol. 219; p. 583.
- Beverage, Non-alcoholic tonic syrup. Phospho-Ginger Company. No. 107,560; Dec. 7; Gaz. vol. 221; p. 348.
- Beverage, Non-intoxicating carbonated. S. C. Sitterson. No. 105,678; Aug. 10; Gaz. vol. 217; p. 696.
- Beverage, Non-intoxicating malt. Fitger Brewing Co. Nos. 101,931-2; Jan. 19; Gaz. vol. 210; p. 1060.
- Beverage or cereal substitute for coffee, Non-alcoholic. A. L. Vickery. No. 107,114; Nov. 9; Gaz. vol. 220; p. 675.
- Beverage, Powdered substance to produce a non-alcoholic food. W. F. Butterman. No. 106,737; Oct. 26; Gaz. vol. 219; p. 1233.
- Beverage-powders used as treatment for certain named diseases. A. Grausam. No. 107,609; Dec. 14; Gaz. vol. 221; p. 732.
- Beverage, Soluble compound for making a food. Kellogg Toasted Corn Flake Company. No. 102,416; Feb. 9; Gaz. vol. 211; p. 635.
- Beverage, table-water, or tonic. W. J. Schieffelin. No. 105,491; July 27; Gaz. vol. 216; p. 1315.
- Beverages and bottled drink-flavoring syrup, Certain non-alcoholic. Latsch & Sullivan. No. 102,122; Jan. 26; Gaz. vol. 210; p. 1390.
- Beverages and flavoring extracts, Certain named non-alcoholic. M. L. Eppstein. No. 105,347; July 20; Gaz. vol. 216; p. 1008.
- Beverages and fruit essences for making same, Non-alcoholic carbonated. Stevenson & Howell. No. 105,566; Aug. 3; Gaz. vol. 217; p. 336.
- Beverages and syrups and colors for making same, Non-intoxicating tonic. Kirk, Geary & Co. No. 101,956; Jan. 19; Gaz. vol. 210; p. 1061.
- Beverages, and syrups and flavoring extracts, Non-alcoholic. H. R. Meister. No. 103,391; Mar. 30; Gaz. vol. 212; p. 1686.
- Beverages and syrups for making same, Carbonated non-alcoholic. B. L. Warner. No. 101,993; Jan. 19; Gaz. vol. 210; p. 1062.
- Beverages and syrups for making same, Non-intoxicating carbonated. J. A. Hatke. No. 102,406; Feb. 9; Gaz. vol. 211; p. 635.
- Beverages, Carbonated non-alcoholic. G. A. Bancroft. No. 104,526; June 1; Gaz. vol. 215; p. 319.
- Beverages, Carbonated non-alcoholic. P. Garrett. No. 105,959; Aug. 31; Gaz. vol. 217; p. 1658.
- Beverages, Carbonated non-alcoholic. My-Coca Co. No. 102,576; Feb. 16; Gaz. vol. 211; p. 951.
- Beverages, Certain named non-alcoholic. H. M. Porter. No. 106,796; Oct. 26; Gaz. vol. 219; p. 1234.
- Beverages, Certain named non-alcoholic. F. Westheimer & Sons. No. 105,803; Aug. 17; Gaz. vol. 217; p. 1051.
- Beverages, Malt. The Bavarian Brewing Company. No. 104,409; May 25; Gaz. vol. 214; p. 1317.
- Beverages, Non-alcoholic. Carl H. Schultze. No. 107,289; Nov. 16; Gaz. vol. 220; p. 1039.
- Beverages, Non-alcoholic. The Schuster Company. No. 101,755; Jan. 12; Gaz. vol. 210; p. 710.
- Beverages, Non-alcoholic. Tropical Fruit Nectar Company. No. 102,773; Feb. 23; Gaz. vol. 211; p. 1258.
- Beverages, Non-alcoholic carbonated. E. Diehl. No. 104,050; Apr. 27; Gaz. vol. 213; p. 1443.
- Beverages, Non-alcoholic carbonated. R. V. Pillsbury. No. 102,657; Feb. 16; Gaz. vol. 211; p. 954.
- Beverages, Non-alcoholic carbonated. Wood-Dunnells Co. No. 101,815; Jan. 12; Gaz. vol. 210; p. 711.
- Beverages, Non-alcoholic tonic carbonated. C. F. Thatcher. No. 107,396; Nov. 23; Gaz. vol. 220; p. 1366.
- Beverages, Non-intoxicating malt. William J. Lemp Brewing Company. No. 106,346; Oct. 19; Gaz. vol. 219; p. 921.
- Beverages, Orange-flavored uncarbonated. Anacortes Ice Co. No. 106,826; Nov. 2; Gaz. vol. 220; p. 343.
- Beverages sold as soft drinks. D. Humphrey. No. 107,262; Nov. 16; Gaz. vol. 220; p. 1039.
- Beverages sold as soft drinks, Cereal. Kellogg Toasted Corn Flake Company. Nos. 105,018-19; June 29; Gaz. vol. 215; p. 1496.
- Bichromate of potash. Natural Products Ref. Co. Nos. 107,085-6; Nov. 9; Gaz. vol. 220; p. 674.
- Bicycles. H. B. Jones. No. 101,952; Jan. 19; Gaz. vol. 210; p. 1060.
- Bicycles. The Pope Manufacturing Company. No. 102,639; Feb. 16; Gaz. vol. 211; p. 953.
- Bicycles. Sears, Roebuck and Co. No. 105,560; Aug. 3; Gaz. vol. 217; p. 336.
- Bicycles. Sears, Roebuck and Company. No. 107,388; Nov. 23; Gaz. vol. 220; p. 1369.
- Billiard-cloth. The Brunswick-Balke-Collender Co. Nos. 106,556-9; Oct. 26; Gaz. vol. 219; p. 1227.
- Binders, Load-. A. B. Goodyear. No. 102,401; Feb. 9; Gaz. vol. 211; p. 635.
- Binders, loose-sheet holders, &c., Temporary. The Helm Company. No. 107,518; Dec. 7; Gaz. vol. 221; p. 346.
- Binding, Bias seam-. Freyberg Brothers. No. 107,166; Nov. 16; Gaz. vol. 220; p. 1036.
- Bindings and bias folds, Seam-. J. H. Friedman. No. 107,607; Dec. 14; Gaz. vol. 221; p. 732.
- Bindings, Seam-. Freyberg Bros. Nos. 104,091-2; Apr. 27; Gaz. vol. 213; p. 1444.
- Biscuit. Robert A. Johnston Co. No. 102,282; Feb. 2; Gaz. vol. 211; p. 280.
- Biscuit. The Lakeside Biscuit Company. No. 102,119; Jan. 26; Gaz. vol. 210; p. 1390.
- Biscuit. Loose-Wiles Biscuit Company. No. 102,422; Feb. 9; Gaz. vol. 211; p. 636.
- Biscuit. Loose-Wiles Biscuit Company. No. 103,904; Apr. 20; Gaz. vol. 213; p. 1112.
- Biscuit. Loose-Wiles Biscuit Company. No. 104,391; May 25; Gaz. vol. 214; p. 1316.
- Biscuit. Loose-Wiles Biscuit Co. No. 104,621; June 8; Gaz. vol. 215; p. 662.
- Biscuit. Loose-Wiles Biscuit Company. No. 105,070; July 6; Gaz. vol. 216; p. 322.

Alphabetical list of trade-marks—Continued.

- Biscuit. Loose-Wiles Biscuit Company. No. 107,356; Nov. 23; Gaz. vol. 220; p. 1368.
- Biscuit. National Biscuit Company. No. 102,758; Feb. 23; Gaz. vol. 211; p. 1259.
- Biscuit. National Biscuit Company. No. 103,730; Apr. 13; Gaz. vol. 213; p. 742.
- Biscuit. National Biscuit Company. Nos. 103,958-9; Apr. 20; Gaz. vol. 213; p. 1114.
- Biscuit. National Biscuit Company. Nos. 104,630-40; June 8; Gaz. vol. 215; p. 662.
- Biscuit. National Biscuit Company. Nos. 105,794-800; Aug. 17; Gaz. vol. 217; p. 1051.
- Biscuit. National Biscuit Company. Nos. 106,467-8; Oct. 19; Gaz. vol. 219; p. 925.
- Biscuit. National Biscuit Company. No. 106,789; Oct. 26; Gaz. vol. 219; p. 1234.
- Biscuit. National Biscuit Company. No. 106,885; Nov. 2; Gaz. vol. 220; p. 345.
- Biscuit. National Biscuit Company. No. 107,273; Nov. 16; Gaz. vol. 220; p. 1039.
- Biscuit. National Biscuit Company. No. 107,627; Dec. 14; Gaz. vol. 221; p. 732.
- Biscuit. National Biscuit Company. Nos. 107,853-4; Dec. 28; Gaz. vol. 221; p. 1448.
- Biscuits. Firm of J. W. Surbrug. No. 105,621; Aug. 10; Gaz. vol. 217; p. 694.
- Bitter-sweets, whipped cream, and chocolates. Pacific Coast Biscuit Company. No. 105,607; Aug. 10; Gaz. vol. 217; p. 694.
- Bitters. R. A. Hine. No. 101,778; Jan. 12; Gaz. vol. 210; p. 710.
- Bitters, Liqueur stomach-. D. Vandewart & Sons. No. 106,815; Oct. 26; Gaz. vol. 219; p. 1235.
- Bitters, Stomach-. The Ahrend & Sons Co. No. 104,501; June 1; Gaz. vol. 215; p. 314.
- Blankets. Esmond Mills. No. 102,430; Feb. 9; Gaz. vol. 211; p. 636.
- Blankets, Bed-. Sears, Roebuck and Co. No. 101,879; Jan. 12; Gaz. vol. 210; p. 713.
- Bleaching, cleansing, and antiseptic compounds. Electro-Alkaline Co. No. 102,650; Feb. 16; Gaz. vol. 211; p. 954.
- Bleaching compositions. Kali Manufacturing Co. No. 107,711; Dec. 21; Gaz. vol. 221; p. 1036.
- Bleaching salts and sodas, cleaning and dyeing preparations. Surpass Chemical Co. No. 105,765; Aug. 17; Gaz. vol. 217; p. 1050.
- Block and tackle, Certain geared. Pull-U-Out Sales Co. No. 107,813; Dec. 28; Gaz. vol. 221; p. 1447.
- Blocks and figure toys, Wooden. W. Meyner. No. 106,881; Nov. 2; Gaz. vol. 220; p. 344.
- Blocks, Construction-. Burlington Toy & Novelty Company. No. 105,288; July 13; Gaz. vol. 216; p. 660.
- Blood-purifiers and remedies for rheumatism. A. H. Reed. No. 103,826; Apr. 13; Gaz. vol. 213; p. 744.
- Blouses, Boys'. Reliance Manufacturing Company. No. 104,265; May 11; Gaz. vol. 214; p. 679.
- Blouses, Boys'. Reliance Manufacturing Company. No. 104,675; June 8; Gaz. vol. 215; p. 663.
- Blouses, Middy-. Jacobs Bros. & Levene. No. 105,210; July 13; Gaz. vol. 216; p. 658.
- Blouses, overalls, coats, &c. Children's. Rice-Stix Dry Goods Company. No. 101,874; Jan. 12; Gaz. vol. 210; p. 713.
- Blouses, top skirts, underskirts, &c. C. Pestcoe. No. 103,824; Apr. 13; Gaz. vol. 213; p. 744.
- Blue and laundry articles containing blue. Reckitts (U. S. A.). No. 104,481; June 1; Gaz. vol. 215; p. 318.
- Blue and laundry articles containing blue. Reckitts (U. S. A.). No. 107,197; Nov. 16; Gaz. vol. 220; p. 1037.
- Blue, Wash-. F. Schulze. No. 103,181; Mar. 16; Gaz. vol. 212; p. 1054.
- Bluing. B. Heller & Co. No. 104,938; June 29; Gaz. vol. 215; p. 1493.
- Bluing. Reckitts (U. S. A.), Ltd. No. 104,750; June 15; Gaz. vol. 215; p. 972.
- Bluing, ammonia, and starch. The Morey Mercantile Company. No. 102,141; Jan. 26; Gaz. vol. 210; p. 1391.
- Bluing compound. Condensed Bluing Company. No. 101,699; Jan. 5; Gaz. vol. 210; p. 395.
- Board or panel, Composite. Bestwall Manufacturing Company. No. 105,287; July 13; Gaz. vol. 216; p. 660.
- Boats. J. Slade. No. 106,038; Sept. 14; Gaz. vol. 218; p. 600.
- Boiler compounds for preventing and removing scale. Arrow Boiler Compound Company. No. 105,309; July 20; Gaz. vol. 216; p. 1007.
- Boiler-disinfectant and metal-preservative compound. United Indigo and Chemical Company. No. 106,915; Nov. 2; Gaz. vol. 220; p. 346.
- Boiler feeds and pump-governors, Automatic. Ronald Trist and Company. No. 102,820; Feb. 23; Gaz. vol. 211; p. 1259.
- Boiler-fue or soot cleaners. W. L. Cronin. No. 105,976; Sept. 7; Gaz. vol. 218; p. 317.
- Boiler metals and removing oil, scale from boilers. Chemical compounds for preserving. The Perolin Company of America. No. 102,583; Feb. 16; Gaz. vol. 211; p. 952.
- Boilers, feed-water heaters, smoke-stacks, &c. Wm. Bros Boiler & Manufacturing Co. No. 105,148; July 8; Gaz. vol. 216; p. 324.
- Boilers, Preparation for the removal and prevention of scale in. Paige & Jones Chemical Co. No. 105,698; Aug. 10; Gaz. vol. 217; p. 696.
- Boilers, Substances for prevention of incrustation in. The Bird Archer Company. No. 106,028; Sept. 14; Gaz. vol. 218; p. 600.
- Bolts and nuts. Flannery Bolt Company. No. 105,052; July 6; Gaz. vol. 216; p. 321.
- Bolts, Expansion, anchor, and toggle. Ankyra Manufacturing Company. No. 105,804; Aug. 17; Gaz. vol. 217; p. 1051.
- Book of nursery-rhymes and adhesive illustrative posters thereof. J. D. Rosenberg. No. 104,807; June 15; Gaz. vol. 215; p. 974.
- Book series. A. L. Burt Company. No. 105,834; Aug. 24; Gaz. vol. 217; p. 1335.
- Book series. A. L. Burt Company. No. 106,294; Oct. 19; Gaz. vol. 219; p. 920.
- Books and periodicals, Printed. Boy Scouts of America. No. 105,407; July 20; Gaz. vol. 216; p. 1010.
- Books and stationery used in keeping accounts, Blank. I. W. Ball. No. 103,042; Mar. 16; Gaz. vol. 212; p. 1050.
- Books, Blank. E. G. Soltmann, Jr. No. 107,534; Dec. 7; Gaz. vol. 221; p. 347.
- Books, booklets, pamphlets, &c., Printed. Blackstone Institute. No. 104,860; June 22; Gaz. vol. 215; p. 1258.
- Books for teaching proper speech to those defective in hearing or speech. E. E. Reed. No. 107,200; Nov. 16; Gaz. vol. 220; p. 1037.
- Books, magazines, and Bible lessons, Printed. M. B. G. Eddy. No. 103,439; Apr. 6; Gaz. vol. 213; p. 352.
- Books, pamphlets, and periodicals, Printed. The Hydrex Felt & Engineering Company. No. 102,896; Mar. 2; Gaz. vol. 212; p. 323.
- Books, Series of. Barse & Hopkins. No. 104,359; May 25; Gaz. vol. 214; p. 1315.
- Bookbinding-cloth. The Holliston Mills. No. 104,453; June 1; Gaz. vol. 215; p. 317.
- Boot and shoe counters. W. H. McElwain Company. No. 101,963; Jan. 19; Gaz. vol. 210; p. 1061.
- Boot and shoe heels and soles, Rubber. C. J. Bailey. No. 105,453; July 27; Gaz. vol. 216; p. 1313.
- Boot and shoe soles. Plymouth Rubber Company. No. 101,975; Jan. 19; Gaz. vol. 210; p. 1061.
- Boot and shoe soles and heels. The Goodyear Tire and Rubber Company. No. 106,762; Oct. 26; Gaz. vol. 219; p. 1233.
- Boot and shoe soles or bottoms made of textile fiber. Geo. H. Snow Co. No. 105,241; July 13; Gaz. vol. 216; p. 659.
- Boots and shoes. Ashuelot Shoe Company. No. 106,283; Oct. 19; Gaz. vol. 219; p. 919.
- Boots and shoes. Belgrade Shoe Manufacturing Company. No. 105,454; July 27; Gaz. vol. 216; p. 1313.
- Boots and shoes. Burley & Stevens. No. 104,141; May 4; Gaz. vol. 214; p. 339.
- Boots and shoes. D. J. Cameron. Nos. 103,277-9; Mar. 30; Gaz. vol. 212; p. 1683.
- Boots and shoes. Chipman, Harwood & Co. No. 104,204; May 11; Gaz. vol. 214; p. 677.
- Boots and shoes. Nathan D. Dodge Shoe Co. No. 106,582; Oct. 26; Gaz. vol. 219; p. 1228.
- Boots and shoes. R. H. Hoskins Co. No. 103,101; Mar. 16; Gaz. vol. 212; p. 1052.
- Boots and shoes. George R. Jones Company. No. 107,474; Dec. 7; Gaz. vol. 221; p. 345.
- Boots and shoes. The Kaut-Reith Shoe Company. No. 105,732; Aug. 17; Gaz. vol. 217; p. 1049.
- Boots and shoes. F. P. Kirkendall & Co. No. 106,773; Oct. 26; Gaz. vol. 219; p. 1234.
- Boots and shoes. Neenah Shoe Company. No. 105,696; Aug. 10; Gaz. vol. 217; p. 696.
- Boots and shoes. I. Rosenbaum. No. 102,692; Feb. 23; Gaz. vol. 211; p. 1255.
- Boots and shoes and tops therefor, Leather and rubber. Pioneer Shoe & Rubber Co. No. 105,411; July 20; Gaz. vol. 216; p. 1010.
- Boots and shoes, Arch-support for. Revere Rubber Company. No. 1,101,872; Jan. 12; Gaz. vol. 210; p. 713.
- Boots and shoes, Ladies' and misses'. Allen-Foster-Willett Co. No. 101,894; Jan. 19; Gaz. vol. 210; p. 1059.
- Boots and shoes, Leather. Davis Shoe Company. No. 106,751; Oct. 26; Gaz. vol. 219; p. 1233.
- Boots and shoes, Leather. Davis Shoe Company. No. 107,737; Dec. 28; Gaz. vol. 221; p. 1445.
- Boots and shoes, Leather. W. L. Douglas Shoe Co. No. 102,833; Feb. 23; Gaz. vol. 211; p. 1260.
- Boots and shoes, Leather. Dunn & McCarthy. No. 102,381; Feb. 9; Gaz. vol. 211; p. 634.
- Boots and shoes, Leather. Charles A. Eaton Company. No. 102,649; Feb. 16; Gaz. vol. 211; p. 954.
- Boots and shoes, Leather. S. Fleming. No. 104,118; May 4; Gaz. vol. 214; p. 339.
- Boots and shoes, Leather. Grass & Luddy. No. 103,894; Apr. 20; Gaz. vol. 213; p. 1112.
- Boots and shoes, Leather. I. Hausman & Sons. No. 105,017; June 29; Gaz. vol. 215; p. 1496.

- Boots and shoes, Leather. W. J. Hoar Shoe Manufacturing Co. No. 105,062; July 6; Gaz. vol. 216; p. 321.
- Boots and shoes, Leather. Keller & Rhodes. No. 103,063; Mar. 16; Gaz. vol. 212; p. 1051.
- Boots and shoes, Leather and canvas. The Forbush Shoe Company. No. 101,933; Jan. 19; Gaz. vol. 210; p. 1060.
- Boots and shoes, Leather, canvas, and rubber. Union Lock Stitch Co. No. 107,801; Dec. 28; Gaz. vol. 221; p. 1447.
- Boots and shoes, Leather, textile fabric, or rubber. Healy Shoe Company. No. 104,613; June 8; Gaz. vol. 215; p. 662.
- Boots and shoes, Men's and women's. Ault-Williamson Shoe Co. No. 106,393; Oct. 19; Gaz. vol. 219; p. 923.
- Boots and shoes, Men's and women's leather. S. Niederman. No. 105,921; Aug. 24; Gaz. vol. 217; p. 1337.
- Boots, shoes, and sandals. Adams Brothers. No. 103,932; Apr. 20; Gaz. vol. 213; p. 1113.
- Boots, shoes, and slippers. The Clay-Gunnell Co. No. 106,408; Oct. 19; Gaz. vol. 219; p. 923.
- Boots, shoes, and slippers. G. T. Hawkins. No. 105,960; Aug. 31; Gaz. vol. 217; p. 1658.
- Boots, shoes, and slippers. W. J. MacFarland. No. 101,859; Jan. 12; Gaz. vol. 210; p. 713.
- Boots, shoes, and slippers. W. J. MacFarland. No. 105,363; July 20; Gaz. vol. 216; p. 1008.
- Boots, shoes, and slippers. Thomas G. Plant Company. Nos. 106,496-7; Oct. 19; Gaz. vol. 219; p. 926.
- Boots, shoes, and slippers, Leather. E. A. Weil Company. No. 104,137; May 4; Gaz. vol. 214; p. 339.
- Boots, shoes, slippers. Edwin Bostock & Company. No. 107,732; Dec. 28; Gaz. vol. 221; p. 1445.
- Boots, shoes, slippers. L. Eckert. No. 104,213; May 11; Gaz. vol. 214; p. 677.
- Boots, shoes, slippers, and footwear. E. C. Simen and L. Eckert. No. 104,235; May 11; Gaz. vol. 214; p. 678.
- Boots, shoes, slippers, and rubbers. Clauson Shoe Co. No. 103,224; Mar. 23; Gaz. vol. 212; p. 1353.
- Boots, shoes, slippers, and rubbers. Powell & Campbell. No. 103,677; Apr. 13; Gaz. vol. 213; p. 740.
- Boots, shoes, slippers, and sandals. Leather. The Anatomik Footwear Company. No. 103,935; Apr. 20; Gaz. vol. 213; p. 1113.
- Boring and drilling machines. Moline Tool Company. No. 104,626; June 8; Gaz. vol. 215; p. 662.
- Bottle, &c., caps or closures. The Pa Pro Company. No. 103,963; Apr. 20; Gaz. vol. 213; p. 1114.
- Bottle and other receptacle closures. Primo Cork & Seal Company. No. 107,196; Nov. 16; Gaz. vol. 220; p. 1037.
- Bottle-cap, Metal. O. Spahr. No. 107,294; Nov. 16; Gaz. vol. 220; p. 1040.
- Bottle-seals. Ferdinand Gutmann & Co. No. 107,722; Dec. 21; Gaz. vol. 221; p. 1036.
- Bottle-stopples. J. W. Douglass. No. 104,796; June 15; Gaz. vol. 215; p. 974.
- Bottle washing, soaking, and brushing machines and conveying apparatus. Barry-Wehmiller Machinery Company. No. 105,181; July 13; Gaz. vol. 216; p. 657.
- Bottles, alcohol-flasks, and tea-caddies. Vacuum. Landers, Frary & Clark. No. 106,784; Oct. 26; Gaz. vol. 219; p. 1234.
- Bottles and cork disks and washers therefor. Closures for. Crown Cork and Seal Co. No. 105,341; July 20; Gaz. vol. 216; p. 1008.
- Bottles and jars, Glass. Smalley, Kivlan & Ontbank. No. 105,423; July 20; Gaz. vol. 216; p. 1010.
- Bottles, Glass. J. W. Douglass. No. 102,329; Feb. 9; Gaz. vol. 211; p. 633.
- Bottles, Glass. J. T. & A. Hamilton. No. 102,404; Feb. 9; Gaz. vol. 211; p. 635.
- Bottles, Glass milk. The Belle Vernon Mapes Dairy Co. No. 103,641; Apr. 13; Gaz. vol. 213; p. 739.
- Bottles, Hot-water. The Icy-Hot Bottle Company. No. 102,971; Mar. 9; Gaz. vol. 212; p. 685.
- Bottles, Narrow-neck glass. Graham Glass Company. No. 102,755; Feb. 23; Gaz. vol. 211; p. 1257.
- Box or carton for wearing-apparel. Salant & Salant. No. 107,203; Nov. 16; Gaz. vol. 220; p. 1037.
- Box-shooks. Main Brothers Box & Lumber Co. No. 107,712; Dec. 21; Gaz. vol. 221; p. 1036.
- Box-strapping, Metal. Cary Manufacturing Co. No. 104,177; May 4; Gaz. vol. 214; p. 340.
- Boxes. J. J. Vanderveer. No. 107,751; Dec. 28; Gaz. vol. 221; p. 1445.
- Boxes. Young Brothers. No. 102,237; Jan. 26; Gaz. vol. 210; p. 1394.
- Boxes, cake-boards, troughs, Wooden bread, &c. Jaburg Bros. No. 107,422; Nov. 23; Gaz. vol. 220; p. 1370.
- Boxes, Candy-. Hansen & Co. No. 105,266; July 13; Gaz. vol. 216; p. 659.
- Boxes, cans, collapsible tubes, &c., Metal. The Hero Manufacturing Co. No. 105,205; July 13; Gaz. vol. 216; p. 658.
- Boxes, envelopes, wrappers, or containers for laundry. J. & J. G. Wallach. No. 105,991; Sept. 7; Gaz. vol. 218; p. 317.
- Boxes, Party-. L. Rubenstein. No. 102,178; Jan. 26; Gaz. vol. 210; p. 1392.
- Boxes, Safety-deposit. Art Metal Construction Co. No. 107,701; Dec. 21; Gaz. vol. 221; p. 1035.
- Boxes, Souvenir-. A. Jouannet. No. 105,662; Aug. 10; Gaz. vol. 217; p. 695.
- Bracelets and parts thereof, belt-buckles, &c. Eisenstadt Manufacturing Company. No. 106,587; Oct. 26; Gaz. vol. 219; p. 1228.
- Braids. Friedberger-Aaron Manufacturing Company. No. 105,459; July 27; Gaz. vol. 216; p. 1314.
- Braids. Rhode Island Textile Company. No. 105,079; July 6; Gaz. vol. 216; p. 322.
- Braids, Alsatian. Dollfus-Mieg & Cie, Société anonyme. No. 102,265; Feb. 2; Gaz. vol. 211; p. 279.
- Braids and passementerie. Dollfus-Mieg & Cie, Société anonyme. No. 102,266; Feb. 2; Gaz. vol. 211; p. 279.
- Braids and passementerie. Dollfus-Mieg & Cie, Société anonyme. Nos. 102,268-9; Feb. 2; Gaz. vol. 211; p. 279.
- Braids, shoe and corset laces, and galloons. United Lace & Braid Manufacturing Company. No. 104,820; June 15; Gaz. vol. 215; p. 975.
- Brake apparatus and railway draft-gear, Air-. The Westinghouse Air Brake Company. No. 106,386; Oct. 19; Gaz. vol. 219; p. 923.
- Brake blocks and linings, surfacing materials for brakes. The Herbert Froid Company. No. 102,085; Jan. 26; Gaz. vol. 210; p. 1389.
- Brake-lining. The Royal Equipment Company. No. 102,640; Feb. 16; Gaz. vol. 211; p. 953.
- Brake-linings. American Asbestos Company. No. 104,194; May 11; Gaz. vol. 214; p. 677.
- Brake-shoes. American Brake Shoe & Foundry Company. No. 102,594; Feb. 16; Gaz. vol. 211; p. 952.
- Brake-shoes. American Brake Shoe & Foundry Company. No. 106,193; Oct. 19; Gaz. vol. 219; p. 917.
- Brake-shoes. American Brake Shoe & Foundry Company. No. 106,280; Oct. 19; Gaz. vol. 219; p. 919.
- Bran and mixed feed. Sparks Milling Company. No. 105,449; July 27; Gaz. vol. 216; p. 1313.
- Brandy. Firm of B. Kasprovicz. No. 102,415; Feb. 9; Gaz. vol. 211; p. 635.
- Brassières and corset-covers. I. B. Kleiner Rubber Company. No. 107,787; Dec. 28; Gaz. vol. 221; p. 1446.
- Bread. R. J. Bryant. No. 105,936; Aug. 31; Gaz. vol. 217; p. 1657.
- Bread. Cable-Draper Baking Co. No. 105,581; Aug. 10; Gaz. vol. 217; p. 693.
- Bread. L. L. Downing. No. 106,946; Nov. 9; Gaz. vol. 220; p. 669.
- Bread. General Baking Company. No. 103,230; Mar. 23; Gaz. vol. 212; p. 1354.
- Bread. H. Korn Baking Co. No. 105,361; July 20; Gaz. vol. 216; p. 1008.
- Bread. L. & A. Baking Company. No. 104,331; May 18; Gaz. vol. 214; p. 1022.
- Bread. G. Mueller. No. 104,026; Apr. 27; Gaz. vol. 213; p. 1442.
- Bread. Nutro Baking Company. No. 106,889; Nov. 2; Gaz. vol. 220; p. 345.
- Bread. Old Dutch Market. No. 106,483; Oct. 19; Gaz. vol. 219; p. 926.
- Bread. Oswald Jaeger Baking Co. No. 104,454; June 1; Gaz. vol. 215; p. 317.
- Bread. The Parsons-Powers Co. No. 106,362; Oct. 19; Gaz. vol. 219; p. 922.
- Bread. Russell-Miller Milling Company. No. 104,648; June 8; Gaz. vol. 215; p. 663.
- Bread. Schulze Baking Company. No. 102,545; Feb. 9; Gaz. vol. 211; p. 639.
- Bread. Schulze Baking Company. No. 104,032; Apr. 27; Gaz. vol. 213; p. 1442.
- Bread. J. J. Shupe. No. 104,889; June 22; Gaz. vol. 215; p. 1259.
- Bread. A. C. Spengler. No. 103,684; Apr. 13; Gaz. vol. 213; p. 740.
- Bread. H. T. Stewart. No. 105,946; Aug. 31; Gaz. vol. 217; p. 1657.
- Bread. The Toledo Bread Company. No. 101,805; Jan. 12; Gaz. vol. 210; p. 711.
- Bread. Ward Baking Company. No. 103,714; Apr. 13; Gaz. vol. 213; p. 741.
- Bread. Ward Bros. Co. No. 104,163; May 4; Gaz. vol. 214; p. 340.
- Bread. Ward Bros. Co. Nos. 105,625-6; Aug. 10; Gaz. vol. 217; p. 694.
- Bread, biscuit, and pastry. E. Hick. No. 103,061; Mar. 16; Gaz. vol. 212; p. 1051.
- Bread, biscuits, cake, and pastry. Carter and Rand. No. 102,043; Jan. 26; Gaz. vol. 210; p. 1388.
- Bread, cake, and crackers. Tasty Baking Co. No. 101,657; Jan. 5; Gaz. vol. 210; p. 394.
- Bread, cake, and pies. Holmes & Son. No. 104,979; June 29; Gaz. vol. 215; p. 1494.
- Bread, cake, pies, &c. Carolina Baking Company. No. 103,723; Apr. 13; Gaz. vol. 213; p. 741.
- Bread, cake, pies, &c. Carolina Baking Company. Nos. 107,047-8; Nov. 9; Gaz. vol. 220; p. 673.
- Bread, including zwieback. Ralston Purina Company. No. 102,845; Feb. 23; Gaz. vol. 211; p. 1260.
- Bread, loaf-cake, and salt-rising bread. Ward Baking Company. No. 107,655; Dec. 14; Gaz. vol. 221; p. 733.
- Bread, Mush-. Stratton & Johnson. No. 105,762; Aug. 17; Gaz. vol. 217; p. 1050.
- Bread, rolls, biscuits, cakes, &c. Ward Baking Company. No. 104,162; May 4; Gaz. vol. 214; p. 340.

Alphabetical list of trade-marks—Continued.

- Bread, Rye. M. Pechter. No. 103,329; Mar. 30; Gaz. vol. 212; p. 1684.
- Bread, Rye. Firm of M. Pechter. No. 106,999; Nov. 9; Gaz. vol. 220; p. 671.
- Bread, salad-dressing, jellied meats, &c. R. Hellmann. No. 104,964; June 29; Gaz. vol. 215; p. 1494.
- Bread, wrapped and unwrapped. Marsh Baking Co. No. 104,172; May 4; Gaz. vol. 214; p. 340.
- Breakfast food, Graham flour, and stock and poultry food, Emmer. Emmer Products Company. No. 103,848; Apr. 20; Gaz. vol. 213; p. 1111.
- Brick. Farr Brick Company. Nos. 103,056-7; Mar. 16; Gaz. vol. 212; p. 1051.
- Brick. Hydraulic-Press Brick Company. No. 104,423; May 25; Gaz. vol. 214; p. 1317.
- Brick. Sioux City Brick and Tile Company. No. 104,340; May 18; Gaz. vol. 214; p. 1022.
- Brick and construction-tile. Boone Brick Tile and Paving Company. No. 104,284; May 18; Gaz. vol. 214; p. 1021.
- Brick and tile. Fliske & Company. No. 106,954; Nov. 9; Gaz. vol. 220; p. 670.
- Brick, Fire-. Stevens Bros. & Co. No. 101,802; Jan. 12; Gaz. vol. 210; p. 711.
- Brick-kilns. R. C. Penfield. No. 102,537; Feb. 9; Gaz. vol. 211; p. 639.
- Bricks. Hocking Valley Products Company. No. 102,686; Feb. 23; Gaz. vol. 211; p. 1255.
- Bricks. Twin City Brick Company. No. 107,028; Nov. 9; Gaz. vol. 220; p. 672.
- Bricks and blocks. Mack Manufacturing Company. No. 102,132; Jan. 26; Gaz. vol. 210; p. 1390.
- Bricks, Clay. Beaver Clay Manufacturing Company. No. 105,641; Aug. 10; Gaz. vol. 217; p. 695.
- Bricks, tiles, blocks, floors, &c. C. H. Parkin. No. 105,989; Sept. 7; Gaz. vol. 218; p. 317.
- Bristle goods, Certain named. Bloomingdale Bros. No. 103,089; Mar. 16; Gaz. vol. 212; p. 1052.
- Broilers, toasters, and pancake-griddles. The Cleveland Foundry Co. No. 104,961; June 29; Gaz. vol. 215; p. 1494.
- Bronze. E. A. Williams & Son. No. 105,385; July 20; Gaz. vol. 216; p. 1009.
- Bronzing-powder. Crown Bronze Powder Company. No. 104,322; May 18; Gaz. vol. 214; p. 1022.
- Brooms, clothes and scrubbing brushes, and feather dusters. Klauber Wangenheim Co. No. 103,002; Mar. 16; Gaz. vol. 212; p. 1049.
- Brooms, scrub-brushes, and feather dusters. Klauber Wangenheim Co. No. 102,802; Feb. 23; Gaz. vol. 211; p. 1259.
- Brooms, whisk-brooms, and brushes. F. D. Schleicher. No. 106,804; Oct. 26; Gaz. vol. 219; p. 1235.
- Brush and casing. Shaving-. The Sterrick Sales Corporation. No. 104,892; June 22; Gaz. vol. 215; p. 1259.
- Brushes. Geo. Borgfeldt & Co. No. 105,935; Aug. 31; Gaz. vol. 217; p. 1657.
- Brushes. Druggists' Supply Corporation. No. 106,947; Nov. 9; Gaz. vol. 220; p. 669.
- Brushes. W. Morrison. No. 103,031; Mar. 16; Gaz. vol. 212; p. 1050.
- Brushes. W. H. Sheets, Jr., & Co. No. 103,918; Apr. 20; Gaz. vol. 213; p. 1113.
- Brushes. W. H. Sheets, Jr., & Co. No. 104,109; Apr. 27; Gaz. vol. 213; p. 1444.
- Brushes. United Drug Company. No. 102,213; Jan. 26; Gaz. vol. 210; p. 1393.
- Brushes and dental instruments. Combined tooth-. P. E. E. Nuyts. No. 106,010; Sept. 14; Gaz. vol. 218; p. 599.
- Brushes and mops. Sargent Brush Co. No. 102,986; Mar. 9; Gaz. vol. 212; p. 686.
- Brushes, Artists'. Jap-Art Brush Co. No. 105,540; Aug. 3; Gaz. vol. 217; p. 336.
- Brushes, Painters'. J. C. Pushee & Sons. No. 107,375; Nov. 23; Gaz. vol. 220; p. 1369.
- Brushes, Tooth-. C. E. Carroll. No. 107,663; Dec. 14; Gaz. vol. 221; p. 733.
- Brushes, Tooth-. I. Sekine. No. 104,427; May 25; Gaz. vol. 214; p. 1317.
- Brushes, Tooth and toilet. The Royal Brush Company. No. 101,681; Jan. 5; Gaz. vol. 210; p. 395.
- Buckets, counterweight-drums, &c. The Hayward Company. No. 102,096; Jan. 26; Gaz. vol. 210; p. 1389.
- Bug and insect exterminator. Flash Chemical Company. No. 104,505; June 1; Gaz. vol. 215; p. 319.
- Building-blocks. Peg Lock Block Company. No. 101,974; Jan. 19; Gaz. vol. 210; p. 1061.
- Building-blocks. Peg Lock Block Company. No. 106,671; Oct. 26; Gaz. vol. 219; p. 1231.
- Building-blocks, Hollow-tile. New York Clay Products Co. No. 105,864; Aug. 24; Gaz. vol. 217; p. 1336.
- Building-blocks, Hollow-tile. New York Clay Products Company. No. 106,061; Sept. 21; Gaz. vol. 218; p. 873.
- Buildings and parts thereof, Ready-cut. North American Construction Co. No. 105,222; July 13; Gaz. vol. 216; p. 658.
- Buildings, Steel portable. The C. D. Pruden Company. No. 106,498; Oct. 19; Gaz. vol. 219; p. 926.
- Bulbs, Compression-. The De Vilbiss Mfg. Company. No. 106,416; Oct. 19; Gaz. vol. 219; p. 924.
- Bulletins, Technical, engineering, and scientific. Standard Corporation. No. 104,998; June 29; Gaz. vol. 215; p. 1495.
- Butchers' supplies. Tilden Saw Co. No. 103,629; Apr. 6; Gaz. vol. 213; p. 358.
- Butter. Ammon & Person. No. 107,591; Dec. 14; Gaz. vol. 221; p. 731.
- Butter. Blue Valley Creamery Company. No. 103,747; Apr. 13; Gaz. vol. 213; p. 742.
- Butter. Danish Butter Import Co. No. 105,785; Aug. 17; Gaz. vol. 217; p. 1051.
- Butter. E. Feldman. No. 103,285; Mar. 30; Gaz. vol. 212; p. 1683.
- Butter. M. E. and W. E. Flint. No. 105,014; June 29; Gaz. vol. 215; p. 1495.
- Butter. Home Creamery Manufacturing Company. No. 102,100; Jan. 26; Gaz. vol. 210; p. 1390.
- Butter. Humboldt Creamery Co. No. 106,971; Nov. 9; Gaz. vol. 220; p. 670.
- Butter. T. P. Grant. No. 105,894; Aug. 24; Gaz. vol. 217; p. 1336.
- Butter. S. S. Lard. No. 104,458; June 1; Gaz. vol. 215; p. 317.
- Butter. Lincoln Produce & Refrigerating Co. No. 106,875; Nov. 2; Gaz. vol. 220; p. 344.
- Butter. J. B. Morgan Co. No. 102,142; Jan. 26; Gaz. vol. 210; p. 1391.
- Butter. Old Dutch Market. Nos. 106,480-2; Oct. 19; Gaz. vol. 219; p. 926.
- Butter. Omaha Cold Storage Company. No. 105,901; Aug. 24; Gaz. vol. 217; p. 1337.
- Butter. Peoria Creamery Co. No. 105,024; June 29; Gaz. vol. 215; p. 1496.
- Butter. Springfield Creamery Co. No. 106,063; Sept. 21; Gaz. vol. 218; p. 873.
- Butter. T. E. Warehime & Bro. No. 102,227; Jan. 26; Gaz. vol. 210; p. 1393.
- Butter and cheese. McCanna & Fraser Co. No. 103,698; Apr. 13; Gaz. vol. 213; p. 741.
- Butter and eggs. S. Goldstein. No. 104,449; June 1; Gaz. vol. 215; p. 317.
- Butter and eggs. Houston Packing Company. No. 106,970; Nov. 9; Gaz. vol. 220; p. 670.
- Butter and eggs. Schlosser Brothers. No. 102,544; Feb. 9; Gaz. vol. 211; p. 639.
- Butter, Certain named cutlery, machinery, and appliances for making and working. H. Lanz. No. 104,771; June 15; Gaz. vol. 215; p. 973.
- Butter, cheese, and eggs. Tilden Produce Co. No. 107,110; Nov. 9; Gaz. vol. 220; p. 674.
- Butter, cheese, eggs, milk, and milk-producing cattle. Ayer & McKinney. No. 104,589; June 8; Gaz. vol. 215; p. 661.
- Butter-coloring materials, annatto liquids, and cheese-rennets. Danish Butter Colour Co. Blauenfeldt & Tyede. No. 101,671; Jan. 5; Gaz. vol. 210; p. 394.
- Butter, ice-cream, and milk. The Ohio Dairy Company. No. 107,089; Nov. 9; Gaz. vol. 220; p. 674.
- Butter of coconut for frying, &c. Pure. Sauté Products Corporation. No. 104,549; June 1; Gaz. vol. 215; p. 320.
- Butter, Prints of process or renovated. The R. E. Cobb Co. No. 106,742; Oct. 26; Gaz. vol. 219; p. 1233.
- Buttons. Hawkeye Pearl Button Co. No. 106,969; Nov. 9; Gaz. vol. 220; p. 670.
- Buttons for trousers, &c. Scovill Manufacturing Company. No. 107,561; Dec. 7; Gaz. vol. 221; p. 348.
- Buttons, Precious-metal cuff-. Parks Bros. & Rogers. No. 104,777; June 15; Gaz. vol. 215; p. 973.
- Buttons, Shell. H. Chalmers & Son. No. 102,373; Feb. 9; Gaz. vol. 211; p. 634.
- Buttons, Snap-. The International Manufacturers Agency. No. 105,538; Aug. 3; Gaz. vol. 217; p. 336.
- Buttons, Snap-. Waldes & Co. No. 101,687; Jan. 5; Gaz. vol. 210; p. 395.
- Buttons, Snap-. Waldes & Co. No. 106,023; Sept. 14; Gaz. vol. 218; p. 600.
- Buttons, Snap-. Waldes & Co. No. 106,712; Oct. 26; Gaz. vol. 219; p. 1232.
- Buttons. The Winwall Company. No. 106,819; Oct. 26; Gaz. vol. 219; p. 1235.
- Cabinets and music-cases. File. P. A. Wetzel. No. 103,137; Mar. 16; Gaz. vol. 212; p. 1053.
- Cabinets and safes, Heat-resisting. The Safe-Cabinet Company. Nos. 106,509-10; Oct. 19; Gaz. vol. 219; p. 926.
- Cabinets, cupboards, and tables. Butlers' and kitchen. Hoosier Manufacturing Company. No. 106,611; Oct. 26; Gaz. vol. 219; p. 1229.
- Cabinets, dressers, bedsteads, &c. Kitchen-. Rodgers-Wade Furniture Co. No. 102,442; Feb. 9; Gaz. vol. 211; p. 636.
- Cabinets, Kitchen-. Coppes Bros. & Zook. No. 104,014; Apr. 27; Gaz. vol. 213; p. 1441.
- Cabinets, Kitchen-. D. Hall. No. 104,874; June 22; Gaz. vol. 215; p. 1258.
- Cabinets, Kitchen-. McDougall Company. No. 102,137; Jan. 26; Gaz. vol. 210; p. 1391.
- Cabinets, Kitchen-. McDougall Company. No. 103,907; Apr. 20; Gaz. vol. 213; p. 1113.
- Cabinets, Kitchen-. C. F. Schmoer Furniture Co. No. 105,082; July 6; Gaz. vol. 216; p. 322.

- Cabinets, Kitchen-. Wasmuth-Endicott Company. No. 103,403; Mar. 30; Gaz. vol. 212; p. 1687.
- Cabinets, sectional furniture, &c., Filling-. Yawman & Erbe Mfg. Co. No. 104,899; June 22; Gaz. vol. 215; p. 1259.
- Cabinets, tables, safes, and chairs, Kitchen-. C. F. Wiley. No. 107,406; Nov. 23; Gaz. vol. 220; p. 1370.
- Cake, Emery & Company. No. 104,715; June 15; Gaz. vol. 215; p. 971.
- Cake, John Hamm Baking Company. No. 103,384; Mar. 30; Gaz. vol. 212; p. 1686.
- Cake, Palmer Candy Co. No. 106,997; Nov. 9; Gaz. vol. 220; p. 671.
- Cake, Schulze Baking Company. No. 107,638; Dec. 14; Gaz. vol. 221; p. 733.
- Cake and nut-bread, Loaf-. Ward Baking Company. No. 107,656; Dec. 14; Gaz. vol. 221; p. 733.
- Cake, bread, biscuits, and cakes, Keebler-Weyl Baking Company. No. 105,733; Aug. 17; Gaz. vol. 217; p. 1049.
- Cake, English home-made fruit. E. Gillespie. No. 103,560; Apr. 6; Gaz. vol. 213; p. 356.
- Cake, Fruit. Capital Grocery Company. No. 105,339; July 20; Gaz. vol. 216; p. 1008.
- Cake, pies, and doughnuts, The Dietz Baking Company. No. 106,580; Oct. 26; Gaz. vol. 219; p. 1228.
- Cakes, The Gunzenhauser Bakery. No. 105,298; July 13; Gaz. vol. 216; p. 660.
- Cakes, Loose-Wiles Biscuit Company. No. 103,757; Apr. 13; Gaz. vol. 213; p. 742.
- Cakes, Stude Baking Company. No. 107,213; Nov. 16; Gaz. vol. 220; p. 1037.
- Cakes, Ward Baking Company. Nos. 102,221-6; Jan. 26; Gaz. vol. 210; p. 1395.
- Cakes, Ward Baking Company. No. 103,742; Apr. 13; Gaz. vol. 213; p. 742.
- Cakes and crackers, The Grocers' Biscuit Company. No. 106,097; Oct. 12; Gaz. vol. 219; p. 581.
- Cakes and crackers, Grocers' Biscuit Company. Nos. 106,855-6; Nov. 2; Gaz. vol. 220; p. 344.
- Cakes and crackers, Loose-Wiles Biscuit Company. No. 104,620; June 8; Gaz. vol. 215; p. 662.
- Cakes called snaps, Loose-Wiles Biscuit Company. No. 104,619; June 8; Gaz. vol. 215; p. 662.
- Cakes, pies, pastry, &c. J. M. Shattuck. No. 103,123; Mar. 16; Gaz. vol. 212; p. 1053.
- Calcium carbide, Union Carbide Company of Canada. Nos. 102,344-5; Feb. 9; Gaz. vol. 211; p. 633.
- Calendar and collection of mottoes, Barse & Hopkins. No. 103,408; Apr. 6; Gaz. vol. 213; p. 351.
- Calfskins for shoe-vamps or shoe-uppers, Whole, Creese & Cook Co. No. 105,042; July 6; Gaz. vol. 216; p. 321.
- Calipers, Hammel, Riglander & Co. No. 104,976; June 29; Gaz. vol. 215; p. 1494.
- Callipers and dividers, Brown & Sharpe Manufacturing Company. No. 106,292; Oct. 19; Gaz. vol. 219; p. 920.
- Calks, Crescent Calk Corporation. No. 105,291; July 13; Gaz. vol. 216; p. 660.
- Cameras, Sears, Roebuck and Co. No. 105,875; Aug. 24; Gaz. vol. 217; p. 1336.
- Cameras, films, and sensitized photographic papers, Ansco Company. No. 102,779; Feb. 23; Gaz. vol. 211; p. 1258.
- Cameras, Photographic, Levy-Roth G. m. b. H. No. 107,076; Nov. 9; Gaz. vol. 220; p. 673.
- Cancer, Treatment for, C. Freeman. No. 107,053; Nov. 9; Gaz. vol. 220; p. 673.
- Candies, M. E. Abel Estate. No. 104,584; June 8; Gaz. vol. 215; p. 661.
- Candies, Automatic Candy Machine Company. No. 102,023; Jan. 26; Gaz. vol. 210; p. 1387.
- Candies, G. Casale & Sons. No. 107,602; Dec. 14; Gaz. vol. 221; p. 732.
- Candies, Cox Confectionery Company. No. 106,842; Nov. 2; Gaz. vol. 220; p. 343.
- Candies, J. Golden. No. 103,561; Apr. 6; Gaz. vol. 213; p. 356.
- Candies, E. Greenfield's Sons. No. 103,428; Apr. 6; Gaz. vol. 213; p. 351.
- Candies, Lovell & Covell Company. No. 106,876; Nov. 2; Gaz. vol. 220; p. 344.
- Candies, Sisco Brothers. No. 105,877; Aug. 24; Gaz. vol. 217; p. 1336.
- Candies and chocolates, Park & Tilford. No. 102,158; Jan. 26; Gaz. vol. 210; p. 1391.
- Candies and chocolates, Park & Tilford. No. 103,359; Mar. 30; Gaz. vol. 212; p. 1685.
- Candies and chocolates, Park & Tilford. No. 105,988; Sept. 7; Gaz. vol. 218; p. 317.
- Candies and nuts, B. L. Howe. No. 107,177; Nov. 16; Gaz. vol. 220; p. 1036.
- Candies, bakers' pastes, cake-fillers, &c. H. Heide. No. 103,102; Mar. 16; Gaz. vol. 212; p. 1052.
- Candies, bonbons, fruit tablets, and sugar-coated popcorn, F. S. Love Manufacturing Co. No. 106,455; Oct. 19; Gaz. vol. 219; p. 925.
- Candies, chocolates, jellies, &c. Mary Elizabeth's. No. 101,703; Jan. 5; Gaz. vol. 210; p. 395.
- Candies, cocoa, and chocolate, H. Heide. No. 103,659; Apr. 13; Gaz. vol. 213; p. 739.
- Candies in tablet form, E. Greenfield's Sons. No. 104,304; May 18; Gaz. vol. 214; p. 1021.
- Candies, Mint, Park & Tilford. No. 102,761; Feb. 23; Gaz. vol. 211; p. 1258.
- Candies of all kinds and cocoa and chocolate, H. Heide. No. 105,053; July 6; Gaz. vol. 216; p. 321.
- Candies, syrups, and honey, Certain named, Rigney & Company. No. 104,572; June 1; Gaz. vol. 215; p. 321.
- Candy, Augustine & Kyer. No. 102,646; Feb. 16; Gaz. vol. 211; p. 953.
- Candy, Barbara Fritchle Shops. No. 107,438; Nov. 30; Gaz. vol. 220; p. 1715.
- Candy, C. Bianchi. No. 106,732; Oct. 26; Gaz. vol. 219; p. 1232.
- Candy, Brandle & Smith Co. No. 104,705; June 15; Gaz. vol. 215; p. 971.
- Candy, Brown-White Inc. No. 105,250; July 13; Gaz. vol. 216; p. 659.
- Candy, Bugler & Goebel Company. No. 106,561; Oct. 26; Gaz. vol. 219; p. 1227.
- Candy, Bunte Brothers. Nos. 104,316-17; May 18; Gaz. vol. 214; p. 1022.
- Candy, Bunte Brothers. No. 105,152; July 6; Gaz. vol. 216; p. 324.
- Candy, Bunte Brothers. No. 105,251; July 13; Gaz. vol. 216; p. 659.
- Candy, Bunte Brothers. No. 106,562; Oct. 26; Gaz. vol. 219; p. 1227.
- Candy, Chocolate Products Company. No. 103,941; Apr. 20; Gaz. vol. 213; p. 1114.
- Candy, Duluth Candy Co. No. 101,926; Jan. 19; Gaz. vol. 210; p. 1060.
- Candy, H. N. Fish Co. No. 107,605; Dec. 14; Gaz. vol. 221; p. 732.
- Candy, The Max Glick Company. No. 102,517; Feb. 9; Gaz. vol. 211; p. 638.
- Candy, The Max Glick Company. No. 106,595; Oct. 26; Gaz. vol. 219; p. 1228.
- Candy, Gunz-Durler Candy Co. No. 102,564; Feb. 16; Gaz. vol. 211; p. 951.
- Candy, W. F. Hall & Co. No. 103,752; Apr. 13; Gaz. vol. 213; p. 742.
- Candy, W. T. Hall & Co. No. 106,601; Oct. 26; Gaz. vol. 219; p. 1229.
- Candy, The C. F. Hickok Company. No. 102,796; Feb. 23; Gaz. vol. 211; p. 1259.
- Candy, Jay Chocolate Company. No. 102,281; Feb. 2; Gaz. vol. 211; p. 280.
- Candy, Johnson Biscuit Company. No. 102,113; Jan. 26; Gaz. vol. 210; p. 1390.
- Candy, Kahn-Beck Co. No. 107,710; Dec. 21; Gaz. vol. 221; p. 1036.
- Candy, F. X. Kuchler & Son. No. 104,835; June 22; Gaz. vol. 215; p. 1257.
- Candy, P. Leon. No. 101,959; Jan. 19; Gaz. vol. 210; p. 1061.
- Candy, Liebenthal Bros. & Co. No. 105,792; Aug. 17; Gaz. vol. 217; p. 1051.
- Candy, Lohede Manufacturing Company. No. 105,068; July 6; Gaz. vol. 216; p. 322.
- Candy, F. S. Love Manufacturing Company. No. 105,438; July 27; Gaz. vol. 216; p. 1313.
- Candy, The Walter M. Lowney Company. No. 107,357; Nov. 23; Gaz. vol. 220; p. 1368.
- Candy, Robert F. Mackenzie Co. No. 106,983; Nov. 9; Gaz. vol. 220; p. 671.
- Candy, F. C. Mankin. No. 106,459; Oct. 19; Gaz. vol. 219; p. 925.
- Candy, James A. McClurg & Sons. No. 103,028; Mar. 16; Gaz. vol. 212; p. 1050.
- Candy, Merchants Candy Company. No. 105,986; Sept. 7; Gaz. vol. 218; p. 317.
- Candy, The Mirror. No. 107,430; Nov. 23; Gaz. vol. 220; p. 1370.
- Candy, A. G. Morse Co. No. 105,442; July 27; Gaz. vol. 216; p. 1313.
- Candy, Mueller-Keller Candy Co. Nos. 105,072-6; July 6; Gaz. vol. 216; p. 322.
- Candy, Mueller-Keller Candy Co. No. 106,884; Nov. 2; Gaz. vol. 220; p. 345.
- Candy, The Nuss Confectionery Co. No. 104,806; June 15; Gaz. vol. 215; p. 974.
- Candy, D. J. O'Brien Company. No. 102,809; Feb. 23; Gaz. vol. 211; p. 1259.
- Candy, Orange Blossom, Inc. No. 103,032; Mar. 16; Gaz. vol. 212; p. 1050.
- Candy, Package Confectionery Company. Nos. 102,945-9; Mar. 2; Gaz. vol. 212; pp. 324-5.
- Candy, Package Confectionery Company. No. 103,071; Mar. 16; Gaz. vol. 212; p. 1051.
- Candy, Package Confectionery Company. No. 105,740; Aug. 17; Gaz. vol. 217; p. 1050.
- Candy, Package Confectionery Co. No. 105,867; Aug. 24; Gaz. vol. 217; p. 1336.
- Candy, Package Confectionery Co. No. 106,487; Oct. 19; Gaz. vol. 219; p. 926.
- Candy, Pieratt & Collins Co. No. 104,645; June 8; Gaz. vol. 215; p. 662.
- Candy, F. Plate. No. 102,538; Feb. 9; Gaz. vol. 211; p. 639.
- Candy, Powells. No. 106,081; Oct. 5; Gaz. vol. 219; p. 267.
- Candy, The Princess Confectionery Company. No. 102,815; Feb. 23; Gaz. vol. 211; p. 1259.

Alphabetical list of trade-marks—Continued.

- Candy. The Ric Rac Company. No. 107,283; Nov. 16; Gaz. vol. 220; p. 1039.
- Candy. The R. E. Rodda Candy Co. No. 106,906; Nov. 2; Gaz. vol. 220; p. 345.
- Candy. D. and J. Rovegno. No. 107,765; Dec. 28; Gaz. vol. 221; p. 1446.
- Candy. E. Sheetz. No. 103,972; Apr. 20; Gaz. vol. 213; p. 1114.
- Candy. Showley Bros. No. 103,448; Apr. 6; Gaz. vol. 213; p. 352.
- Candy. Simmons & Hammond Manufacturing Co. No. 107,391; Nov. 23; Gaz. vol. 220; p. 1369.
- Candy. Techemeyer Candy Co. No. 103,040; Mar. 16; Gaz. vol. 212; p. 1050.
- Candy. Tri-State Candy Co. No. 106,702; Oct. 26; Gaz. vol. 219; p. 1232.
- Candy. Westmoreland Candy Company. No. 103,982; Apr. 20; Gaz. vol. 213; p. 1115.
- Candy. Windsor Chocolate Company. No. 106,534; Oct. 19; Gaz. vol. 219; p. 927.
- Candy. Wadsworth J. Zittel Company. No. 107,409; Nov. 23; Gaz. vol. 220; p. 1370.
- Candy and cake. Peter Kern Company. No. 107,264; Nov. 16; Gaz. vol. 220; p. 1039.
- Candy and confections. R. B. McLean. No. 103,107; Mar. 16; Gaz. vol. 212; p. 1052.
- Candy and confections. E. J. Schuenemann. No. 105,278; July 13; Gaz. vol. 216; p. 660.
- Candy and salted peanuts. Winona Candy Co. No. 102,825; Feb. 23; Gaz. vol. 211; p. 1259.
- Candy, chewing-gum, chocolates, &c. A. H. Burt. No. 106,941; Nov. 9; Gaz. vol. 220; p. 669.
- Candy. Chocolate. National Candy Company. No. 106,469; Oct. 19; Gaz. vol. 219; p. 925.
- Candy, Chocolate-coated. George Ziegler Co. No. 102,552; Feb. 9; Gaz. vol. 211; p. 639.
- Candy confection. P. A. Mandabach. No. 104,803; June 15; Gaz. vol. 215; p. 974.
- Candy figs. Loose-Wiles Biscuit Company. No. 105,069; July 6; Gaz. vol. 216; p. 322.
- Candy, ice-cream and ices, salted nuts, &c. Oakes Candy Co. No. 107,559; Dec. 7; Gaz. vol. 221; p. 348.
- Candy in pastil form. W. J. Smadbeck. No. 106,911; Nov. 2; Gaz. vol. 220; p. 345.
- Candy, popcorn, and peanuts. Amalgamated Concessions Co. Nos. 105,886-7; Aug. 24; Gaz. vol. 217; p. 1336.
- Candy, popcorn confections, salted, &c., almonds and peanuts. F. S. Love Manufacturing Company. No. 105,439; July 27; Gaz. vol. 216; p. 1313.
- Candy. Stick. Loose-Wiles Biscuit Company. No. 104,332; May 18; Gaz. vol. 214; p. 1022.
- Candy tablets, Compressed. The Aromint Company. No. 102,491; Feb. 9; Gaz. vol. 211; p. 638.
- Candle-holders and sconces. D. H. Lind. No. 104,058; Apr. 27; Gaz. vol. 213; p. 1443.
- Candles. The Burmah Oil Company. No. 101,910; Jan. 19; Gaz. vol. 210; p. 1059.
- Candles. G. C. Schneider. No. 104,398; May 25; Gaz. vol. 214; p. 1316.
- Candles. Standard Oil Company of New York. Nos. 105,564-5; Aug. 3; Gaz. vol. 217; p. 336.
- Canned and bottled vegetables and fruits. Geo. S. Daugherty Company. No. 105,292; July 13; Gaz. vol. 216; p. 660.
- Canned and bottled vegetables and fruits. Geo. S. Daugherty Company. No. 105,342; July 20; Gaz. vol. 216; p. 1008.
- Canned and preserved fish. Strohmeyer & Arpe Company. No. 107,025; Nov. 9; Gaz. vol. 220; p. 672.
- Canned beef-stew. R. C. Williams & Co. No. 107,407; Nov. 23; Gaz. vol. 220; p. 1370.
- Canned chop suey. Chop Suey Cannery. No. 105,973; Sept. 7; Gaz. vol. 218; p. 317.
- Canned clams and fruits. Friend Brothers. No. 104,002; Apr. 27; Gaz. vol. 213; p. 1441.
- Canned corn. The Sears & Nichols Co. No. 102,588; Feb. 16; Gaz. vol. 211; p. 952.
- Canned corn and succotash. H. C. Baxter & Bro. No. 102,781; Feb. 23; Gaz. vol. 211; p. 1258.
- Canned corn and succotash. H. C. Baxter & Bro. No. 103,216; Mar. 23; Gaz. vol. 212; p. 1353.
- Canned corn, succotash, and Lima beans. H. C. Baxter & Bro. No. 102,933; Mar. 2; Gaz. vol. 212; p. 324.
- Canned fish. Homelike Canning & Packing Co. No. 103,000; Mar. 16; Gaz. vol. 212; p. 1049.
- Canned fish. The Jaeger-Smedsvik Co. Nos. 105,594-5; Aug. 10; Gaz. vol. 217; p. 693.
- Canned fish. A/S. Norwegian Canner's Export Office. Nos. 102,151-2; Jan. 26; Gaz. vol. 210; p. 1391.
- Canned fish. Southern California Fish Company. No. 105,084; July 6; Gaz. vol. 216; p. 322.
- Canned fish and vegetables. J. H. Mercian. No. 106,077; Oct. 5; Gaz. vol. 219; p. 267.
- Canned fruit. J. R. Thomas' Sons. No. 101,758; Jan. 12; Gaz. vol. 210; p. 710.
- Canned fruits. Benton County Growers' Association. No. 104,314; May 18; Gaz. vol. 214; p. 1022.
- Canned fruits. California Canneries Co. No. 101,912; Jan. 19; Gaz. vol. 210; p. 1059.
- Canned fruits and vegetables. Appleby Brothers. No. 105,035; July 6; Gaz. vol. 216; p. 321.
- Canned fruits and vegetables. The J. K. Armsby Co. No. 102,750; Feb. 23; Gaz. vol. 211; p. 1258.
- Canned fruits and vegetables. The J. K. Armsby Co. Nos. 103,080-3; Mar. 16; Gaz. vol. 212; p. 1051.
- Canned fruits and vegetables and canned pork and beans. W. F. Assau Canning Company. No. 103,990; Apr. 27; Gaz. vol. 213; p. 1441.
- Canned fruits and vegetables and coffee. G. Lindberg. No. 105,601; Aug. 10; Gaz. vol. 217; p. 693.
- Canned fruits and vegetables, coffee. Kansas City Wholesale Grocery Co. No. 101,954; Jan. 19; Gaz. vol. 210; p. 1060.
- Canned fruits and vegetables, spices, tea, &c. L. R. Yangco. No. 101,690; Jan. 5; Gaz. vol. 210; p. 395.
- Canned fruits and vegetables, spices, tea, coffee, &c. L. R. Yangco. No. 101,692; Jan. 5; Gaz. vol. 210; p. 395.
- Canned fruits, including berries, and canned vegetables. Cobb Preserving Company. No. 102,255; Feb. 2; Gaz. vol. 211; p. 279.
- Canned fruits, vegetables, and fish. L. Cohen Grocer Company. No. 103,378; Mar. 30; Gaz. vol. 212; p. 1686.
- Canned fruits, vegetables, and fish. The H. Lesinsky Company. No. 103,617; Apr. 6; Gaz. vol. 213; p. 357.
- Canned fruits, vegetables, and oysters. H. J. McGrath Company. No. 104,623; June 8; Gaz. vol. 215; p. 662.
- Canned fruits, vegetables, and salmon, condensed milk, &c. Austin-Nichols & Co. No. 103,407; Apr. 6; Gaz. vol. 213; p. 351.
- Canned fruits, vegetables, and sauer-kraut. All-Package Grocery Stores Co. No. 106,724; Oct. 26; Gaz. vol. 219; p. 1232.
- Canned fruits, vegetables, salmon, &c. Steele-Wedeles Company. No. 107,022; Nov. 9; Gaz. vol. 220; p. 672.
- Canned fruits, vegetables, sauer-kraut, &c. Gibbs Preserving Co. No. 102,088; Jan. 26; Gaz. vol. 210; p. 1389.
- Canned fruits, vegetables, shrimp, &c. The Daniels Cornell Co. No. 107,249; Nov. 16; Gaz. vol. 220; p. 1058.
- Canned goods and butter. The Ashford Company. No. 103,145; Mar. 16; Gaz. vol. 212; p. 1053.
- Canned herring-roes and oysters. T. S. Southgate & Co. No. 102,197; Jan. 26; Gaz. vol. 210; p. 1392.
- Canned herrings in tomato sauce. Chr. Bjelland & Co. No. 103,087; Mar. 16; Gaz. vol. 212; p. 1051.
- Canned meat products, Certain named. Houston Packing Company. No. 101,738; Jan. 12; Gaz. vol. 210; p. 709.
- Canned peas, corn, and tomatoes. Girard Grocery Company. No. 104,558; June 1; Gaz. vol. 215; p. 320.
- Canned peas, corn, pumpkin, &c. Jno. H. Orr Co. No. 101,972; Jan. 19; Gaz. vol. 210; p. 1061.
- Canned pineapple. Hawaiian Pineapple Co. No. 103,430; Apr. 6; Gaz. vol. 213; p. 351.
- Canned pineapple. Pearl City Fruit Co. Nos. 103,008-9; Mar. 16; Gaz. vol. 212; p. 1049.
- Canned pineapple. Pearl City Fruit Co. No. 104,545; June 1; Gaz. vol. 215; p. 320.
- Canned pineapple. S. S. Pierce Co. No. 107,095; Nov. 9; Gaz. vol. 220; p. 674.
- Canned pineapple. The Thomas Pineapple Company. No. 105,089; July 6; Gaz. vol. 216; p. 322.
- Canned salmon. Alaska Fish Co. No. 107,135; Nov. 16; Gaz. vol. 220; p. 1035.
- Canned salmon. Coast Fish Company. No. 103,225; Mar. 23; Gaz. vol. 212; p. 1354.
- Canned salmon. Everett Packing Co. No. 106,307; Oct. 19; Gaz. vol. 219; p. 920.
- Canned salmon. Everett Packing Co. Nos. 107,321-3; Nov. 23; Gaz. vol. 220; p. 1367.
- Canned salmon. Hawk Fish Company. No. 104,119; May 4; Gaz. vol. 214; p. 339.
- Canned salmon. Hidden Inlet Canning Co. No. 105,206; July 13; Gaz. vol. 216; p. 658.
- Canned salmon. Hidden Inlet Canning Co. No. 107,259; Nov. 16; Gaz. vol. 220; p. 1038.
- Canned salmon. Libby, McNeill & Libby. No. 106,872; Nov. 2; Gaz. vol. 220; p. 344.
- Canned salmon. Lindenberger Packing Co. No. 103,785; Apr. 13; Gaz. vol. 213; p. 743.
- Canned salmon. The Macleay Estate Co. No. 104,306; May 18; Gaz. vol. 214; p. 1021.
- Canned salmon. J. L. Smiley & Company. No. 102,547; Feb. 9; Gaz. vol. 211; p. 639.
- Canned salmon. J. L. Smiley & Company. No. 102,659; Feb. 16; Gaz. vol. 211; p. 954.
- Canned salmon. J. L. Smiley & Company. No. 103,769; Apr. 13; Gaz. vol. 213; p. 743.
- Canned salmon. J. L. Smiley & Company. No. 107,019; Nov. 9; Gaz. vol. 220; p. 672.
- Canned salmon. L. H. Wakefield. Nos. 107,115-22; Nov. 9; Gaz. vol. 220; p. 675.
- Canned salmon. J. W. Wilk & Company. No. 101,660; Jan. 5; Gaz. vol. 210; p. 394.
- Canned salmon. Willapa Harbor Fish Co. Nos. 102,480-1; Feb. 9; Gaz. vol. 211; p. 637.
- Canned salmon, sardines, and herring. A. C. Clark. No. 105,582; Aug. 10; Gaz. vol. 217; p. 693.
- Canned sardines. Chr. Bjelland & Co. No. 102,030; Jan. 26; Gaz. vol. 210; p. 1387.
- Canned sardines. Chr. Bjelland & Co. No. 102,360; Feb. 9; Gaz. vol. 211; p. 634.
- Canned sardines. Chr. Bjelland & Co. Nos. 103,084-6; Mar. 16; Gaz. vol. 212; p. 1051.

Alphabetical list of trade-marks—Continued.

- Canned sardines. Chr. Bjelland & Co. No. 103,088; Mar. 16; Gaz. vol. 212; p. 1051.
- Canned sardines. Chr. Bjelland & Co. Nos. 103,745-6; Apr. 13; Gaz. vol. 213; p. 742.
- Canned sardines. A. S. Gouvea & Co. No. 102,563; Feb. 16; Gaz. vol. 211; p. 951.
- Canned sweet corn. S. J. Ady. No. 102,776; Feb. 23; Gaz. vol. 211; p. 1258.
- Canned sweet corn and peas. Barron County Canning Co. No. 106,546; Oct. 26; Gaz. vol. 219; p. 1227.
- Canned sweet corn and peas. Barron County Canning Co. No. 106,931; Nov. 9; Gaz. vol. 220; p. 669.
- Canned tomatoes, peas, and corn. W. King & Co. No. 103,168; Mar. 16; Gaz. vol. 212; p. 1054.
- Canned vegetables. The J. K. Armsby Co. No. 107,041; Nov. 9; Gaz. vol. 220; p. 672.
- Canned vegetables. The Cedar Rapids Canning Co. Nos. 103,995-7; Apr. 27; Gaz. vol. 213; p. 1441.
- Canned vegetables. Cray Pure Food Company. No. 102,065; Jan. 26; Gaz. vol. 210; p. 1388.
- Canned vegetables. Inderrieden Canning Co. No. 103,240; Mar. 23; Gaz. vol. 212; p. 1354.
- Canned vegetables. Norfolk Packing Co. No. 102,928; Mar. 2; Gaz. vol. 212; p. 324.
- Canned vegetables. Norfolk Packing Co. Nos. 103,567-8; Apr. 6; Gaz. vol. 213; p. 356.
- Canned vegetables. Ocean Shore Canning Co. No. 103,325; Mar. 30; Gaz. vol. 212; p. 1684.
- Canned vegetables. Reedsburg Canning Company. No. 107,008; Nov. 9; Gaz. vol. 220; p. 671.
- Canned vegetables. Reeves, Parvin & Co. No. 107,097; Nov. 9; Gaz. vol. 220; p. 674.
- Canned vegetables. Sargeant and Rice Company. No. 102,451; Feb. 9; Gaz. vol. 211; p. 636.
- Canned vegetables and baked beans. Onalaska Pickle & Canning Co. No. 102,810; Feb. 23; Gaz. vol. 211; p. 1259.
- Canned vegetables and canned fruits. Canastota Canning Company. No. 105,154; July 6; Gaz. vol. 216; p. 324.
- Canned vegetables and fish, fruit, &c. Consolidated Grocery Company. No. 107,678; Dec. 21; Gaz. vol. 221; p. 1035.
- Canned vegetables and fish-roe. W. A. Dameron & Bro. No. 102,239; Jan. 26; Gaz. vol. 210; p. 1394.
- Canned vegetables and fruits. Canastota Canning Company. No. 103,312; Mar. 30; Gaz. vol. 212; p. 1684.
- Canned vegetables and fruits. Canastota Canning Company. Nos. 104,666-7; June 8; Gaz. vol. 215; p. 663.
- Canned vegetables and fruits. L. M. Langrall. No. 106,342; Oct. 19; Gaz. vol. 219; p. 921.
- Canned vegetables and fruits, flavoring extracts, &c. Lebanon Wholesale Grocer Co. No. 102,805; Feb. 23; Gaz. vol. 211; p. 1259.
- Canned vegetables, dried and jarred fruits. The Coast Products Co. No. 107,677; Dec. 21; Gaz. vol. 221; p. 1035.
- Canned vegetables, wheat-flour, and pepper. The George J. Hales Co. No. 103,100; Mar. 16; Gaz. vol. 212; p. 1052.
- Cans and collapsible tubes. Tin. National Can Co. No. 104,099; Apr. 27; Gaz. vol. 213; p. 1444.
- Canoes. Peterborough Canoe Company. No. 103,594; Apr. 6; Gaz. vol. 213; p. 357.
- Cantaloupes. Layton & Owens. No. 107,075; Nov. 9; Gaz. vol. 220; p. 677.
- Canteens. W. J. Brett. No. 104,902; June 22; Gaz. vol. 215; p. 1259.
- Caps and gloves. Bathing. Maryland Rubber Company. No. 102,134; Jan. 26; Gaz. vol. 210; p. 1391.
- Caps and slippers, Washable. A. Hale. No. 106,600; Oct. 26; Gaz. vol. 219; p. 1229.
- Caps, corset-covers, baby-dresses, &c. Boudoir. D. B. Hill. No. 105,788; Aug. 17; Gaz. vol. 217; p. 1051.
- Car-movers. Appleton Car-Mover Co. No. 102,555; Feb. 16; Gaz. vol. 211; p. 951.
- Cars and cycles, automobiles, and cycle-cars. Motor. Rudge-Whitworth. No. 104,397; May 25; Gaz. vol. 214; p. 1316.
- Cars, delivery-vans, and other motor-cycle carriers. Side. H. H. Young. No. 105,708; Aug. 10; Gaz. vol. 217; p. 697.
- Caramel compound to be added to coffee. Rice Bros. No. 106,679; Oct. 26; Gaz. vol. 219; p. 1231.
- Caramels. Blanke-Wennecker Candy Co. No. 104,247; May 11; Gaz. vol. 214; p. 678.
- Caramels and candles. American Caramel Company. No. 103,881; Apr. 20; Gaz. vol. 213; p. 1112.
- Caramels and candles. American Caramel Company. No. 104,919; June 22; Gaz. vol. 215; p. 1260.
- Carbon, deodorizing and catalytic oxidizing materials, Deodorizing-. Industrial Chemical Company. No. 103,782; Apr. 13; Gaz. vol. 213; p. 743.
- Carbon-eradicator. Spd. Accessories Co. No. 106,184; Oct. 12; Gaz. vol. 219; p. 584.
- Carbon from automobiles, Preparation for removing. M. L. Moore. No. 107,185; Nov. 16; Gaz. vol. 220; p. 1036.
- Carbon-remover. Cyclone Co. No. 104,866; June 22; Gaz. vol. 215; p. 1258.
- Carbon-remover. Grahamoline Products Company. No. 106,325; Oct. 19; Gaz. vol. 219; p. 921.
- Carbon-remover. J. J. Walsh. No. 104,242; May 11; Gaz. vol. 214; p. 678.
- Carbureter. Diamond Carburetor Company. No. 106,091; Oct. 12; Gaz. vol. 219; p. 581.
- Carbureters, pumps, wrench sets, &c. Mecca Manufacturing & Specialty Co. No. 106,880; Nov. 2; Gaz. vol. 220; p. 344.
- Carcinoma extract for treatment of malignant tumors. Farbwerke vorm. Meister Lucius & Brüning. No. 102,332; Feb. 9; Gaz. vol. 211; p. 633.
- Cards, Printed score-. A. A. Foster. No. 104,053; Apr. 27; Gaz. vol. 213; p. 1443.
- Carpet-sweeper. The Fair. No. 104,420; May 25; Gaz. vol. 214; p. 1317.
- Carpet-sweepers. Bissell Carpet Sweeper Company. Nos. 102,736-42; Feb. 23; Gaz. vol. 211; p. 1257.
- Carpet-sweepers. Metal Stampings Corporation. No. 107,272; Nov. 16; Gaz. vol. 220; p. 1039.
- Carpet-sweepers and vacuum-cleaners. Clements Mfg. Co. No. 103,198; Mar. 23; Gaz. vol. 212; p. 1353.
- Carpets and rugs. Textile. W. M. Stevenson. No. 104,309; May 18; Gaz. vol. 214; p. 1022.
- Carpets and textile rugs. Mogridge & Fiscus. No. 102,633; Feb. 16; Gaz. vol. 211; p. 953.
- Carriages and go-carts, Baby-. The Buckley-Newhall Company. Nos. 106,207-8; Oct. 19; Gaz. vol. 219; p. 917.
- Carriages and sulkies, Baby-. La Porte Outing Sulky Company. Nos. 107,352-3; Nov. 23; Gaz. vol. 220; p. 1368.
- Carriages and wagons. The Highland Body Manufacturing Company. No. 107,173; Nov. 16; Gaz. vol. 220; p. 1036.
- Carriages, buggies, and wagons. The J. M. Selzer C. & B. W. Mfg. Co. No. 101,799; Jan. 12; Gaz. vol. 210; p. 711.
- Carriages, buggies, and wagons. The J. M. Selzer C. & B. W. Mfg. Co. No. 102,190; Jan. 26; Gaz. vol. 210; p. 1392.
- Carriages, carts, and delivery-wagons. W. Wettengel & Son. No. 105,883; Aug. 24; Gaz. vol. 217; p. 1336.
- Carriage-ropes, blankets, and steamer-rugs. T. Kelly & Co. No. 106,866; Nov. 2; Gaz. vol. 220; p. 344.
- Cartons, boxes, and paper bags. A. Jarvis. No. 103,855; Apr. 20; Gaz. vol. 213; p. 1111.
- Cartoons and drawings. R. W. Satterfield. No. 103,446; Apr. 6; Gaz. vol. 213; p. 352.
- Cartoons, Series of. H. C. Fisher. No. 102,968; Mar. 9; Gaz. vol. 212; p. 685.
- Case-hardening compound. A. C. Fay. No. 105,047; July 6; Gaz. vol. 216; p. 321.
- Casters. G G G Metal Stamping Company. No. 102,276; Feb. 2; Gaz. vol. 211; p. 280.
- Castings and forgings, Carbon and manganese steel and iron. Edgar Allen American Manganese Steel Company. No. 101,625; Jan. 5; Gaz. vol. 210; p. 393.
- Catalogue, Monthly. Butler Brothers. No. 107,661; Dec. 14; Gaz. vol. 221; p. 733.
- Catarrhal jelly. B. Sewell & Co. No. 107,206; Nov. 16; Gaz. vol. 220; p. 1037.
- Cathartic. M. R. White. No. 104,897; June 22; Gaz. vol. 215; p. 1259.
- Cathartic and laxative. T. M. Griffiths. No. 104,723; June 15; Gaz. vol. 215; p. 972.
- Cathartic pastils. H. P. Simpson. No. 104,996; June 29; Gaz. vol. 215; p. 1495.
- Cathartic preparations. The Castor Products Company. No. 105,889; Aug. 24; Gaz. vol. 217; p. 1336.
- Catsup, Grape. R. B. Frese. No. 107,606; Dec. 14; Gaz. vol. 221; p. 732.
- Catsup, Jells, jams, &c. The New Wooster Preserving Co. No. 101,969; Jan. 19; Gaz. vol. 210; p. 1061.
- Catsup, spices, rolled oats, canned beef, &c. The W. W. Harper Company. No. 102,794; Feb. 23; Gaz. vol. 211; p. 1259.
- Cement. E. N. Donnelly. No. 102,071; Jan. 26; Gaz. vol. 210; p. 1389.
- Cement, Alkaline. Amies Cement Company. No. 102,016; Jan. 26; Gaz. vol. 210; p. 1387.
- Cement and lime, Portland. The Colorado Portland Cement Company. No. 102,559; Feb. 16; Gaz. vol. 211; p. 851.
- Cement and paving-cement and fillers for cement, Bituminous. C. G. Betts Company. No. 103,217; Mar. 23; Gaz. vol. 212; p. 1353.
- Cement and waterproofing compositions, Bituminous. Warren Chemical & Manufacturing Company. No. 101,811; Jan. 12; Gaz. vol. 210; p. 711.
- Cement, Hydraulic. Sterling Portland Cement Company. No. 104,133; May 4; Gaz. vol. 214; p. 339.
- Cement-like compound for flooring, &c. The Flexstone Products Co. Nos. 101,838-9; Jan. 12; Gaz. vol. 210; p. 712.
- Cement, Liquid. A. Brandriss. No. 103,195; Mar. 23; Gaz. vol. 212; p. 1353.
- Cement, Portland. Marquette Cement Manufacturing Co. No. 104,984; June 29; Gaz. vol. 215; p. 1495.
- Cement, Portland. Marquette Cement Manufacturing Co. No. 106,350; Oct. 19; Gaz. vol. 219; p. 922.
- Cement, Portland. The Ogden Portland Cement Co. No. 104,568; June 1; Gaz. vol. 215; p. 321.
- Cement, Structural. H. B. French. No. 105,016; June 29; Gaz. vol. 215; p. 1495.

Alphabetical list of trade-marks—Continued.

- Cement, White Portland. The Sandusky Portland Cement Company. No. 106,260; Oct. 19; Gaz. vol. 219; p. 919.
- Cements, Acid-proof construction. Chemical Construction Company. No. 105,784; Aug. 17; Gaz. vol. 217; p. 1051.
- Cements, Asphaltum. The National Roofing Company. No. 102,720; Feb. 23; Gaz. vol. 211; p. 1256.
- Cements, milliners' and hatters' glue, Adhesive and leather. Boston Blacking Company. No. 107,775; Dec. 28; Gaz. vol. 221; p. 1446.
- Cereal, Breakfast. Kellogg Toasted Corn Flake Co. No. 106,623; Oct. 26; Gaz. vol. 219; p. 1229.
- Cereal for chronic constipation. Medicated. W. A. Rullman. No. 106,183; Oct. 12; Gaz. vol. 219; p. 584.
- Cereals, Breakfast. Old Dutch Market. No. 107,762; Dec. 28; Gaz. vol. 221; p. 1446.
- Ceresin. Ernst Schliemann's Export-Ceresin-Fabrik, Gesellschaft mit beschränkter Haftung. Nos. 104,157-8; May 4; Gaz. vol. 214; p. 340.
- Chafing-dishes, coffee-percolators, &c., Electrically-heated. Landers, Frary & Clark. No. 103,203; Mar. 23; Gaz. vol. 212; p. 1353.
- Chains and parts thereof. The Jeffrey Manufacturing Company. No. 105,915; Aug. 24; Gaz. vol. 217; p. 1337.
- Chain, Base-metal. American Chain Company. No. 107,772; Dec. 28; Gaz. vol. 221; p. 1446.
- Chains, Drive, conveying, and power-transmission. Chain Belt Company. Nos. 106,836-9; Nov. 2; Gaz. vol. 220; p. 343.
- Chains for personal wear, Metal. W. Forstner Co. No. 106,318; Oct. 19; Gaz. vol. 219; p. 921.
- Chair-seats, Fiber. Bison Fibre Company. No. 104,438; June 1; Gaz. vol. 215; p. 317.
- Chairs, Babies' high. Wabash Sani-Tray Co. No. 104,493; June 1; Gaz. vol. 215; p. 318.
- Chairs, baskets for tennis-balls, bedroom suits, &c., Barbers' arm-. "Mundus" Aktiengesellschaft der Vereinigten Oesterreichischen Bugholzmöbel-Fabriken ("Mundus" United Austrian Bent Wood Furniture Manufacturers Ltd.). No. 104,151; May 4; Gaz. vol. 214; p. 340.
- Chamois face-cloths. Black Horn Sales Co. No. 106,831; Nov. 2; Gaz. vol. 220; p. 343.
- Champagne and sparkling wines. L. Pommery, fils & Cie. Nos. 106,011-12; Sept. 14; Gaz. vol. 218; p. 599.
- Change-making machines. Barrett Changer Co. No. 107,809; Nov. 23; Gaz. vol. 220; p. 1367.
- Charcoal. Thomas Brothers & Klein. No. 106,266; Oct. 19; Gaz. vol. 219; p. 919.
- Charcoal compound used in the treatment of certain diseases. J. M. Gilmore. No. 105,587; Aug. 10; Gaz. vol. 217; p. 693.
- Charts for computation, Printed. Felsenthal Brothers. No. 105,653; Aug. 10; Gaz. vol. 217; p. 695.
- Checks, drafts, notes, &c., Profit-sharing, rebate, &c. N. Greig. No. 101,631; Jan. 5; Gaz. vol. 210; p. 393.
- Cheese. Alpine Dairy Company. No. 103,637; Apr. 13; Gaz. vol. 213; p. 739.
- Cheese. Gerber & Co. No. 105,586; Aug. 10; Gaz. vol. 217; p. 693.
- Cheese. L. Kleinerman. No. 107,786; Dec. 28; Gaz. vol. 221; p. 1446.
- Cheese. J. L. Kraft & Bros. Co. No. 107,429; Nov. 23; Gaz. vol. 220; p. 1370.
- Cheese. C. C. Martin. No. 103,390; Mar. 30; Gaz. vol. 212; p. 1686.
- Cheese. C. C. Martin. No. 104,307; May 18; Gaz. vol. 214; p. 1021.
- Cheese. Phenix Cheese Co. No. 104,546; June 1; Gaz. vol. 215; p. 320.
- Cheese. Phenix Cheese Co. No. 104,748; June 15; Gaz. vol. 215; p. 972.
- Cheese. Rothlisberger & Co. No. 101,979; Jan. 19; Gaz. vol. 210; p. 1061.
- Cheese. Rothlisberger & Co. No. 107,377; Nov. 23; Gaz. vol. 220; p. 1369.
- Cheese. E. Wittwer & Bro. No. 102,236; Jan. 26; Gaz. vol. 210; p. 1394.
- Cheese, Brick-. C. F. Franke. No. 102,274; Feb. 2; Gaz. vol. 211; p. 280.
- Cheese, Foreign and domestic. O. Roth & Co. No. 103,965; Apr. 20; Gaz. vol. 213; p. 1114.
- Chemical and pharmaceutical preparations, Certain named. Manufacturers and Retailers Company. No. 102,573; Feb. 16; Gaz. vol. 211; p. 951.
- Chemical and pharmaceutical preparations, Certain specified. Johnstown Chemical Company. No. 102,972; Mar. 9; Gaz. vol. 212; p. 685.
- Chemical combination for internal use for dyspepsia, &c. J. B. Graham. No. 107,327; Nov. 23; Gaz. vol. 220; p. 1367.
- Chemical combination for treatment of certain named diseases. O. J. Parham. No. 107,370; Nov. 23; Gaz. vol. 220; p. 1369.
- Chemical compound for purifying gasoline and preventing formation of carbon in explosive-engines. J. Falkenberg. No. 102,892; Mar. 2; Gaz. vol. 212; p. 323.
- Chemical preparation for intensifying the heat of fires. Seldonte Laboratories Limited. No. 105,305; July 13; Gaz. vol. 216; p. 661.
- Chemical product for finishing, giving body and hand, and as a filler for fabrics. Onyx Oil & Chemical Co. No. 107,526; Dec. 7; Gaz. vol. 221; p. 347.
- Chemical products for exterminating diseases of plants and vegetables. Amsterdamsche Superfosfaatfabriek. No. 103,882; Apr. 20; Gaz. vol. 213; p. 1112.
- Chemical substance having germicidal qualities adapted for certain named purposes. Crookes Callosols Limited. No. 103,283; Mar. 30; Gaz. vol. 212; p. 1683.
- Chemicals, Certain named. Stockholms Superfosfat Fabriks Aktiebolag. No. 102,201; Jan. 26; Gaz. vol. 210; p. 1393.
- Chemicals, medicines, and pharmaceutical preparations, Certain named. Kirk-Geary & Co. No. 102,118; Jan. 26; Gaz. vol. 210; p. 1390.
- Chemicals, medicines, and pharmaceutical preparations, Certain named. Sharp & Dohme. Nos. 101,982-3; Jan. 19; Gaz. vol. 210; p. 1061.
- Chemicals producing a peroxid solution when dissolved in water. The Roessler & Hasslacher Chemical Co. No. 102,443; Feb. 9; Gaz. vol. 211; p. 636.
- Cherries, pineapple, assorted fruits, &c. Rheinstrom Bros. No. 103,598; Apr. 6; Gaz. vol. 213; p. 357.
- Chests and utility-boxes. Cedar. The Roos Mfg. Co. No. 106,367; Oct. 19; Gaz. vol. 219; p. 922.
- Chianti, Red and white. Viola Importing Company. No. 104,895; June 22; Gaz. vol. 215; p. 1259.
- Chicory, Genuine. E. B. Müller & Co. No. 105,077; July 6; Gaz. vol. 216; p. 322.
- Chiffon, Silk. Wullschlegel & Co. No. 105,707; Aug. 10; Gaz. vol. 217; p. 697.
- Chilli powder, &c. Gebhardt Chilli Powder Co. No. 102,562; Feb. 16; Gaz. vol. 211; p. 951.
- Chilli sauce and marmalade. Home Maid Products Co. No. 104,727; June 15; Gaz. vol. 215; p. 972.
- China and earthenware. Minton's. No. 105,793; Aug. 17; Gaz. vol. 217; p. 1051.
- Chiropractical appliances, Certain named. A. C. Levy. No. 105,301; July 13; Gaz. vol. 216; p. 660.
- Chocolate. Walter Baker & Company. No. 102,996; Mar. 16; Gaz. vol. 212; p. 1049.
- Chocolate. D. H. De Jong. No. 102,681; Feb. 23; Gaz. vol. 211; p. 1255.
- Chocolate creams. Imperial Candy Co. No. 107,520; Dec. 7; Gaz. vol. 221; p. 346.
- Chocolates. Bruns Bros. No. 105,185; July 13; Gaz. vol. 216; p. 657.
- Chocolates. The Dolly Varden Chocolate Co. No. 102,513; Feb. 9; Gaz. vol. 211; p. 638.
- Chocolates. E. Greenfield's Sons. No. 105,844; Aug. 24; Gaz. vol. 217; p. 1335.
- Chocolates. H. R. Hoefler. No. 106,440; Oct. 19; Gaz. vol. 219; p. 924.
- Chocolates. Jaynes Drug Company. No. 105,268; July 13; Gaz. vol. 216; p. 659.
- Chocolates. Miller-Elmer Manufacturing Co. No. 105,218; July 13; Gaz. vol. 216; p. 658.
- Chocolates. J. W. Surbrug. No. 105,427; July 20; Gaz. vol. 216; p. 1010.
- Chocolates. Sweet Candy Company. Nos. 104,849-50; June 22; Gaz. vol. 215; p. 1257.
- Chocolates. Wadsworth Chocolate Co. No. 103,833; Apr. 13; Gaz. vol. 213; p. 745.
- Chocolates. Wadsworth Chocolate Co. No. 103,867; Apr. 20; Gaz. vol. 213; p. 1111.
- Chocolates. Wadsworth Chocolate Co. No. 106,711; Oct. 26; Gaz. vol. 219; p. 1232.
- Chocolates and bonbons. Park & Tilford. No. 103,006; Mar. 16; Gaz. vol. 212; p. 1049.
- Chocolates and bonbons. G. Rickard. No. 106,504; Oct. 19; Gaz. vol. 219; p. 926.
- Chocolates and candies. Kahn-Beck Co. No. 107,344; Nov. 23; Gaz. vol. 220; p. 1368.
- Chocolates and candies. Wallace & Co. No. 103,015; Mar. 16; Gaz. vol. 212; p. 1049.
- Chocolates and candy. Loose-Wiles Company. Nos. 102,529-30; Feb. 9; Gaz. vol. 211; p. 639.
- Chocolate and chocolate candy, Eating-. D. Ghirardelli Co. No. 106,424; Oct. 19; Gaz. vol. 219; p. 924.
- Chocolates, bonbons, caramels, &c. E. M. Attridge. No. 104,588; June 8; Gaz. vol. 215; p. 661.
- Chocolates, candies, and bonbons. Park & Tilford. No. 102,760; Feb. 23; Gaz. vol. 211; p. 1258.
- Chop-suey sauce. Chop Suey Sauce Company. No. 107,468; Dec. 7; Gaz. vol. 221; p. 345.
- Churns. United States Manufacturing Co. No. 105,003; June 29; Gaz. vol. 215; p. 1495.
- Cider, ginger-ale, grape and orange juices, &c. Berdan and Company. No. 105,643; Aug. 10; Gaz. vol. 217; p. 695.
- Cigar and cigarette holders, pipes, pipe-cleaners, &c. United Drug Company. No. 103,602; Apr. 6; Gaz. vol. 213; p. 357.
- Cigars. M. Balistocky. No. 107,308; Nov. 23; Gaz. vol. 220; p. 1367.
- Cigars. G. Bluthardt & Co. No. 106,289; Oct. 19; Gaz. vol. 219; p. 920.
- Cigars. Buerkle Cigar Company. No. 103,709; Apr. 13; Gaz. vol. 213; p. 741.
- Cigars. L. Edelman. No. 101,732; Jan. 12; Gaz. vol. 210; p. 709.

- Cigars. El-Rees-So Cigar Company. No. 105,046; July 6; Gaz. vol. 216; p. 321.
- Cigars. M. L. Fernandez. Nos. 105,294-7; July 13; Gaz. vol. 216; p. 660.
- Cigars. Fernandez & Garcia. No. 103,098; Mar. 16; Gaz. vol. 212; p. 1052.
- Cigars. Gowan-Lenning-Brown Co. No. 101,634; Jan. 5; Gaz. vol. 210; p. 393.
- Cigars. Greenwood & Company. No. 106,326; Oct. 19; Gaz. vol. 219; p. 921.
- Cigars. J. B. Harrison. No. 107,517; Dec. 7; Gaz. vol. 221; p. 346.
- Cigars. Heineman Bros. No. 104,450; June 1; Gaz. vol. 215; p. 317.
- Cigars. La Poppea Cigar Company. Nos. 105,961-2; Aug. 31; Gaz. vol. 217; p. 1658.
- Cigars. José Lovera Co. No. 102,864; Feb. 23; Gaz. vol. 211; p. 1261.
- Cigars. J. A. McAdoo. No. 107,670; Dec. 14; Gaz. vol. 221; p. 734.
- Cigars. The Mendelsohn Co. No. 107,851; Dec. 28; Gaz. vol. 221; p. 1448.
- Cigars. O. Mintz. No. 103,440; Apr. 6; Gaz. vol. 213; p. 352.
- Cigars. J. C. Newman. No. 107,497; Dec. 7; Gaz. vol. 221; p. 346.
- Cigars. C. H. Pattengill Corporation. No. 102,689; Feb. 23; Gaz. vol. 211; p. 1255.
- Cigars. J. B. Regan. Nos. 101,870-1; Jan. 12; Gaz. vol. 210; p. 713.
- Cigars. Salomon Bros. No. 103,363; Mar. 30; Gaz. vol. 212; p. 1685.
- Cigars. Simon & Salzenstein. No. 104,131; May 4; Gaz. vol. 214; p. 339.
- Cigars. Steeves & Tilton. No. 105,026; June 29; Gaz. vol. 215; p. 1496.
- Cigars. I. Teltelbaum. No. 104,550; June 1; Gaz. vol. 215; p. 320.
- Cigars. Wertheimer Bros. No. 104,659; June 8; Gaz. vol. 215; p. 663.
- Cigars. J. H. Wetzler. No. 104,660; June 8; Gaz. vol. 215; p. 663.
- Cigars. L. M. White. No. 102,347; Feb. 9; Gaz. vol. 211; p. 633.
- Cigars and cigarettes. Petri-Italian-American Cigar Co. No. 102,167; Jan. 26; Gaz. vol. 210; p. 1391.
- Cigars and cigarettes. Sociedad Anonima Manufactura de Tabacos Piccardo y Compania Limitada. No. 107,020; Nov. 9; Gaz. vol. 220; p. 672.
- Cigars, cheroots, and cigarettes. Cayey-Caguas Tobacco Company. No. 105,290; July 13; Gaz. vol. 216; p. 660.
- Cigars, cheroots, cigarettes, and stogies. C. Rosenberg. No. 103,877; Apr. 20; Gaz. vol. 213; p. 1112.
- Cigars, cheroots, stogies, cigarettes, tobacco. O'Brien and Edmonds. No. 106,661; Oct. 26; Gaz. vol. 219; p. 1230.
- Cigars, cigarettes, and cheroots. E. Noack. No. 103,960; Apr. 20; Gaz. vol. 213; p. 1114.
- Cigars, cigarettes, and smoking-tobacco. The Fair. No. 102,516; Feb. 9; Gaz. vol. 211; p. 638.
- Cigars, cigarettes, cheroots, and cut tobacco. Jaynes Drug Co. No. 101,949; Jan. 19; Gaz. vol. 210; p. 1060.
- Cigars, cigarettes, cheroots, and cut tobacco. V. J. Schulteis. No. 107,863; Dec. 28; Gaz. vol. 221; p. 1449.
- Cigars, cigarettes, cheroots, and manufactured tobacco. Swaab, San & Marqusee. No. 101,655; Jan. 5; Gaz. vol. 210; p. 394.
- Cigars, cigarettes, tobaccos, and snuff. John Blaul's Sons Co. No. 103,411; Apr. 6; Gaz. vol. 213; p. 351.
- Cigars, little cigars, cigarettes, and tobacco. Lilly, Dungan & Company. No. 105,116; July 6; Gaz. vol. 216; p. 323.
- Cigars, little cigars, cigarettes, and tobacco. Lilly, Dungan & Company. No. 105,164; July 6; Gaz. vol. 216; p. 324.
- Cigars, little cigars, cigarettes, tobacco, and snuff. F. Westheimer & Sons. No. 106,716; Oct. 26; Gaz. vol. 219; p. 1232.
- Cigars, tobacco, cigarettes, and cheroots. Kansas City Wholesale Grocery Co. No. 104,769; June 15; Gaz. vol. 215; p. 973.
- Cigarette-paper. Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils. No. 107,766; Dec. 28; Gaz. vol. 221; p. 1446.
- Cigarettes. The Barkmahn Company. No. 106,198; Oct. 19; Gaz. vol. 219; p. 917.
- Cigarettes. A. Batschari Cigarettenfabrik G. m. b. H. No. 107,540; Dec. 7; Gaz. vol. 221; p. 347.
- Cigarettes. Tobias Bluestein, Inc. No. 103,939; Apr. 20; Gaz. vol. 213; p. 1113.
- Cigarettes. Cado Co. No. 101,765; Jan. 12; Gaz. vol. 210; p. 710.
- Cigarettes. 50/50 Manufacturing Co. No. 101,725; Jan. 12; Gaz. vol. 210; p. 709.
- Cigarettes. J. Goldberg. No. 105,495; July 27; Gaz. vol. 216; p. 1315.
- Cigarettes. P. D. Horasan. No. 105,114; July 5; Gaz. vol. 216; p. 323.
- Cigarettes. P. D. Horasan. No. 105,850; Aug. 24; Gaz. vol. 217; p. 1335.
- Cigarettes. The London Blend Cigarette Co. No. 103,618; Apr. 6; Gaz. vol. 213; p. 357.
- Cigarettes. The London Blend Cigarette Company. No. 107,850; Dec. 28; Gaz. vol. 221; p. 1448.
- Cigarettes. D. Maragousis Co. No. 105,499; July 27; Gaz. vol. 216; p. 1315.
- Cigarettes. Schinas Bros. No. 105,873; Aug. 24; Gaz. vol. 217; p. 1336.
- Cigarettes. J. F. Sturm. No. 103,880; Apr. 20; Gaz. vol. 213; p. 1112.
- Cigarettes. H. M. Wolfe. No. 103,984; Apr. 20; Gaz. vol. 213; p. 1115.
- Cigarettes and smoking-tobacco. A. L. Mock. No. 104,181; May 4; Gaz. vol. 214; p. 341.
- Cigarettes, cigars, and tobacco. Oracle Tobacco Company. No. 102,811; Feb. 23; Gaz. vol. 211; p. 1259.
- Cigarettes, cigars, cheroots, and manufactured tobacco. E. M. Attridge. No. 105,097; July 6; Gaz. vol. 216; p. 322.
- Cinematograph-films. Società Anonima Leonardo Film. No. 103,664; Apr. 13; Gaz. vol. 213; p. 740.
- Clamps, Machinists'. C. B. Periolat. No. 106,036; Sept. 14; Gaz. vol. 218; p. 600.
- Clay, Ferruginous. Brown Brothers. No. 106,405; Oct. 19; Gaz. vol. 219; p. 923.
- Cleaner and polish. Paint and varnish. Marshall & Hedricks. No. 106,878; Nov. 2; Gaz. vol. 220; p. 344.
- Cleaner for solid and plated gold and silver ware. F. H. Gross. No. 102,623; Feb. 16; Gaz. vol. 211; p. 953.
- Cleaner. Glass. Elite Glass Cleaner Company. No. 107,721; Dec. 21; Gaz. vol. 221; p. 1036.
- Cleaner. Liquid. The Perkins-Campbell Co. No. 102,900; Mar. 2; Gaz. vol. 212; p. 323.
- Cleaner, silver cleaner and plater, rust-remover, Clothes. C. H. Hultzen. No. 102,923; Mar. 2; Gaz. vol. 212; p. 324.
- Cleaners, Electric vacuum-. The Apex Electrical Manufacturing Co. No. 105,007; June 29; Gaz. vol. 215; p. 1495.
- Cleaners, Electrical vacuum-. Frank Ridlon Company. No. 106,902; Nov. 2; Gaz. vol. 220; p. 345.
- Cleaners, Vacuum-. The Brand Manufacturing Corporation. No. 107,238; Nov. 16; Gaz. vol. 220; p. 1038.
- Cleaners, Vacuum-. Jewel Vacuum Cleaner Co. No. 103,290; Mar. 30; Gaz. vol. 212; p. 1683.
- Cleaners, Vacuum-. United Distributing Companies. No. 104,756; June 15; Gaz. vol. 215; p. 973.
- Cleaning and polishing compound for metal surfaces. G. E. Simons. No. 104,517; June 1; Gaz. vol. 215; p. 319.
- Cleaning and polishing preparation. Carisa Mfg. Co. No. 107,239; Nov. 16; Gaz. vol. 220; p. 1038.
- Cleaning and polishing preparation for automobiles. Pimbley Paint & Glass Co. No. 105,225; July 13; Gaz. vol. 216; p. 658.
- Cleaning and polishing preparation for vehicle-bodies. Cooper & Osterhout. No. 102,679; Feb. 23; Gaz. vol. 211; p. 1255.
- Cleaning and polishing preparations for metal, leather, glass, wood, &c. Chemische Fabrik Düsseldorf Aktiengesellschaft. No. 104,930; June 29; Gaz. vol. 215; p. 1497.
- Cleaning and preserving preparation for varnished and painted surfaces, Liquid. E. J. Janes. No. 105,163; July 6; Gaz. vol. 216; p. 324.
- Cleaning carpets, rugs, delicate fabrics, &c., Compound for. J. Fabey. No. 106,032; Sept. 14; Gaz. vol. 218; p. 600.
- Cleaning compound. R. H. Plumb. No. 102,171; Jan. 26; Gaz. vol. 210; p. 1392.
- Cleaning compound for cylinders of internal-combustion engines. C. E. Kubick. No. 103,003; Mar. 16; Gaz. vol. 212; p. 1049.
- Cleaning compound for wire screens and metal surfaces. D. Briscoe, Jr. No. 107,466; Dec. 7; Gaz. vol. 221; p. 345.
- Cleaning compounds. Harrah & Stewart Mfg. Co. No. 106,765; Oct. 26; Gaz. vol. 219; p. 1233.
- Cleaning, dressing, and polishing liquid. Leather. W. Coates. No. 106,409; Oct. 19; Gaz. vol. 219; p. 923.
- Cleaning, dusting, and polishing compound. Veneer Manufacturing Co. No. 103,454; Apr. 6; Gaz. vol. 213; p. 352.
- Cleaning or detergent compound. John Knight, Limited. No. 102,898; Mar. 2; Gaz. vol. 212; p. 323.
- Cleaning preparation, Detergent. Faxon, Williams & Faxon. No. 104,448; June 1; Gaz. vol. 215; p. 317.
- Cleaning preparation, Detergent. Fitzpatrick Bros. No. 107,680; Dec. 21; Gaz. vol. 221; p. 1035.
- Cleaning preparation for removing iron-rust, ink, fruit-stains, &c. J. H. Gartside. No. 101,630; Jan. 5; Gaz. vol. 210; p. 393.
- Cleanser. The Grady Mfg. Co. No. 104,422; May 25; Gaz. vol. 214; p. 1317.
- Cleanser. Kohler Co. No. 104,121; May 4; Gaz. vol. 214; p. 339.
- Cleanser, Detergent. J. D. La Croix. No. 107,265; Nov. 16; Gaz. vol. 220; p. 1039.
- Cleanser, hand-soap, and stove-polisher, Household and carpet. E. J. Schabel. No. 102,452; Feb. 9; Gaz. vol. 211; p. 636.
- Cleansing and polishing preparation, Liquid. The Wonder Mist Co. No. 107,768; Dec. 28; Gaz. vol. 221; p. 1446.
- Cleansing and scouring powder. C. Lamping. No. 102,568; Feb. 16; Gaz. vol. 211; p. 951.

Alphabetical list of trade-marks—Continued.

- Cleansing cream, Skin-. Toilette Products Company. No. 102,550; Feb. 9; Gaz. vol. 211; p. 639.
- Cleansing, polishing, and scouring article. H. S. Williams. No. 104,498; June 1; Gaz. vol. 215; p. 319.
- Cleansing-powder for closet-bowls, porcelain and vitreous ware. Porcela Radax Company. No. 105,749; Aug. 17; Gaz. vol. 217; p. 1050.
- Cleansing, scouring, and polishing compound. The Globe Soap Company. No. 105,202; July 13; Gaz. vol. 216; p. 658.
- Cloaks, coats, suits, and dresses. I. E. Goldman. No. 104,831; June 22; Gaz. vol. 215; p. 1257.
- Cloaks, suits, dresses, and rain-coats. Carson, Pirle, Scott & Co. No. 105,937; Aug. 31; Gaz. vol. 217; p. 1657.
- Clock-dials. I. Wigdor. No. 107,405; Nov. 23; Gaz. vol. 220; p. 1370.
- Clocks. F. L. Bosworth Co. No. 107,311; Nov. 23; Gaz. vol. 220; p. 1367.
- Clocks. The E. Ingraham Company. No. 104,799; June 15; Gaz. vol. 215; p. 974.
- Clocks. The New Haven Clock Co. No. 107,855; Dec. 28; Gaz. vol. 221; p. 1448.
- Clocks. Western Clock Co. No. 103,457; Apr. 6; Gaz. vol. 213; p. 352.
- Clocks and clock parts. Herschede Hall Clock Company. No. 101,677; Jan. 5; Gaz. vol. 210; p. 395.
- Clocks and clock-works, Chime-. C. A. Jacques. No. 107,615; Dec. 14; Gaz. vol. 221; p. 732.
- Clocks and watches. Western Clock Co. No. 102,951; Mar. 2; Gaz. vol. 212; p. 325.
- Clocks and watches. Western Clock Co. Nos. 103,927-9; Apr. 20; Gaz. vol. 213; p. 1113.
- Clocks and watches. Western Clock Co. No. 106,385; Oct. 19; Gaz. vol. 219; p. 923.
- Clocks and watches. Western Clock Co. No. 107,459; Nov. 30; Gaz. vol. 220; p. 1715.
- Clocks, Automobile-. H. W. Johns-Manville Co. No. 103,587; Apr. 6; Gaz. vol. 213; p. 356.
- Closet fixtures, Water-. The John Douglas Company. No. 104,380; May 25; Gaz. vol. 214; p. 1316.
- Closet toilet-bowls, Water-. Cronk-Salter Company. No. 103,201; Mar. 23; Gaz. vol. 212; p. 1353.
- Closets and sanitary washstands, Chemical. Rowe Sanitary Mfg. Co. No. 104,483; June 1; Gaz. vol. 215; p. 318.
- Closets, lavatories, &c., Vitreous-china water-. The Trenton Potteries Company. No. 107,219; Nov. 16; Gaz. vol. 220; p. 1037.
- Closets, urinals, &c., Vitreous-china water-. Thomas Madcock's Sons Company. No. 104,802; June 15; Gaz. vol. 215; p. 974.
- Cloth for oil-mills, Press-. Freeman-Summer Co. No. 105,839; Aug. 24; Gaz. vol. 217; p. 1335.
- Cloth, Pocketing-. W. B. West. No. 107,458; Nov. 30; Gaz. vol. 220; p. 1715.
- Cloth, Scrub-. S. Lewis. No. 101,857; Jan. 12; Gaz. vol. 210; p. 713.
- Cloths and stuffs. Perrotts Limited. No. 102,901; Mar. 2; Gaz. vol. 212; p. 323.
- Clothes and overcoats, Men's outer. Landau, Goldberg & Levy. No. 105,599; Aug. 10; Gaz. vol. 217; p. 693.
- Clothes-driers. A. Nosworthy. No. 104,950; June 29; Gaz. vol. 215; p. 1493.
- Clothes-lines, sash-cord, horse-ties, &c. Beebe Cordage Mfg. Co. No. 107,704; Dec. 21; Gaz. vol. 221; p. 1036.
- Clothes-pins. F. & F. Specialty Co. No. 102,056; Jan. 26; Gaz. vol. 210; p. 1389.
- Clothes-powder. Commonwealth Supply Company. No. 104,067; Apr. 27; Gaz. vol. 213; p. 1443.
- Clothes-washers, Electric. The Frantz Premier Company. No. 106,955; Nov. 9; Gaz. vol. 220; p. 670.
- Clothes-wringers and washing-machines. The Buckley-Newhall Company. No. 107,488; Dec. 7; Gaz. vol. 221; p. 345.
- Clothing, Boys'. Glaser & Rosenbaum. No. 106,594; Oct. 26; Gaz. vol. 219; p. 1228.
- Clothing, Boys' and men's. Brooks Brothers. No. 103,992; Apr. 27; Gaz. vol. 213; p. 1441.
- Clothing, Certain named. Brooks Brothers. No. 103,889; Apr. 20; Gaz. vol. 213; p. 1112.
- Clothing, Certain named. Cache Knitting Works. No. 103,416; Apr. 6; Gaz. vol. 213; p. 351.
- Clothing, Certain named. The Charles Williams Stores. No. 107,799; Dec. 28; Gaz. vol. 221; p. 1447.
- Clothing, Certain named. Cohen, Goldman & Co. No. 102,961; Mar. 9; Gaz. vol. 212; p. 685.
- Clothing, Certain named. Cohen, Goldman & Co. No. 104,167; May 4; Gaz. vol. 214; p. 340.
- Clothing, Certain named. N. Corah & Sons. No. 106,744; Oct. 26; Gaz. vol. 219; p. 1233.
- Clothing, Certain named. N. Corah & Sons. No. 107,054; Nov. 9; Gaz. vol. 220; p. 673.
- Clothing, Certain named. B. L. Herman. No. 104,685; June 8; Gaz. vol. 215; p. 664.
- Clothing, Certain named. Kantleek Raincoat Company. No. 101,711; Jan. 5; Gaz. vol. 210; p. 396.
- Clothing, Certain named. F. A. Patrick & Co. No. 101,748; Jan. 12; Gaz. vol. 210; p. 709.
- Clothing, Certain named. Perrotts Limited. No. 103,625; Apr. 6; Gaz. vol. 213; p. 358.
- Clothing, Certain named. O. M. Potterf. No. 103,361; Mar. 30; Gaz. vol. 212; p. 1685.
- Clothing, Certain named. Rice-Stix Dry Goods Company. No. 103,915; Apr. 20; Gaz. vol. 213; p. 1113.
- Clothing, Certain named. Henry Sonneborn & Co. No. 105,376; July 20; Gaz. vol. 216; p. 1009.
- Clothing, Certain named. Henry Sonneborn & Co. No. 107,293; Nov. 16; Gaz. vol. 220; p. 1039.
- Clothing, Certain named. Waldes & Company. Nos. 106,528-30; Oct. 19; Gaz. vol. 219; p. 927.
- Clothing, Certain named articles of. The Wood-Wilson Co. No. 103,192; Mar. 16; Gaz. vol. 212; p. 1055.
- Clothing, Certain named infants' and ladies'. Best & Company. No. 102,704; Feb. 23; Gaz. vol. 211; p. 1256.
- Clothing, Certain named men's. Briede & Rogovsky. No. 104,166; May 4; Gaz. vol. 214; p. 340.
- Clothing, Certain named men's and boys'. Heidelberg, Wolff & Co. No. 107,172; Nov. 16; Gaz. vol. 220; p. 1036.
- Clothing for ladies and children, Certain named. Reins & Meiss. No. 105,368; July 20; Gaz. vol. 216; p. 1009.
- Clothing for men and boys, Certain named. M. M. Konski. No. 105,735; Aug. 17; Gaz. vol. 217; p. 1049.
- Clothing for men, boys, and women, Certain named. A. Shuman & Co. No. 102,618; Feb. 16; Gaz. vol. 211; p. 953.
- Clothing for men, Certain named textile and knitted. Silverberg and Lince. No. 106,020; Sept. 14; Gaz. vol. 218; p. 600.
- Clothing for women. Guy D. Sisson Company. No. 105,562; Aug. 3; Gaz. vol. 217; p. 336.
- Clothing for women and children. M. E. Smith & Co. No. 105,471; July 27; Gaz. vol. 216; p. 1314.
- Clothing for women, Certain named. Edward L. Mayer, Inc. No. 102,574; Feb. 16; Gaz. vol. 211; p. 951.
- Clutch-linings, surfacing materials for clutches, &c. The Herbert Froid Company. Nos. 102,836-7; Feb. 23; Gaz. vol. 211; p. 1260.
- Clutches. E. E. Brown. No. 104,861; June 22; Gaz. vol. 215; p. 1258.
- Coach and carriage bodies. Kellner Frères. No. 102,714; Feb. 23; Gaz. vol. 211; p. 1256.
- Coach and carriage bodies. Kellner Frères. No. 106,236; Oct. 19; Gaz. vol. 219; p. 918.
- Coal. Blocton Cahaba Coal Co. No. 104,439; June 1; Gaz. vol. 215; p. 317.
- Coal. City Fuel Company. No. 103,646; Apr. 13; Gaz. vol. 213; p. 739.
- Coal. Clinchfield Coal Corporation. No. 107,734; Dec. 28; Gaz. vol. 221; p. 1445.
- Coal. Eastern Kentucky Coal Company. No. 103,648; Apr. 13; Gaz. vol. 213; p. 739.
- Coal. The Ethel Coal Co. No. 105,158; July 6; Gaz. vol. 216; p. 324.
- Coal. Katzmaier Coal Co. No. 101,642; Jan. 5; Gaz. vol. 210; p. 394.
- Coal. Martin-Howe Coal Co. No. 103,956; Apr. 20; Gaz. vol. 213; p. 1114.
- Coal. The Maynard Coal Company. No. 106,168; Oct. 12; Gaz. vol. 219; p. 583.
- Coal. C. M. Moderwell & Company. No. 102,295; Feb. 2; Gaz. vol. 211; p. 280.
- Coal. New England Coal & Coke Company. No. 104,228; May 11; Gaz. vol. 214; p. 678.
- Coal. Pennsylvania Coal Company. No. 107,633; Dec. 14; Gaz. vol. 221; p. 732.
- Coal. Schwind Brothers Coal Company. No. 102,948; Mar. 2; Gaz. vol. 212; p. 324.
- Coal. United Fuel & Supply Co. No. 104,343; May 18; Gaz. vol. 214; p. 1022.
- Coal, Block, mine-run, &c. Wyatt Coal Company. No. 107,810; Dec. 28; Gaz. vol. 221; p. 1447.
- Coal-chutes and garbage-receivers. The Majestic Company. No. 107,184; Nov. 16; Gaz. vol. 220; p. 1036.
- Coal, coke, and briquets. Eberts Bros. Co. No. 105,194; July 13; Gaz. vol. 216; p. 657.
- Coating apparatus, Surface-. De Vilbiss Manufacturing Co. No. 104,581; June 1; Gaz. vol. 215; p. 321.
- Coating or paint, Liquid protective. Bayway Chemical Company. No. 103,744; Apr. 13; Gaz. vol. 213; p. 742.
- Coats and costumes, Ladies'. A. Wilkie. No. 104,243; May 11; Gaz. vol. 214; p. 678.
- Coats and junior suits, Children's and misses'. I. Finkenstein. No. 101,930; Jan. 19; Gaz. vol. 210; p. 1060.
- Coats and outer suits, Ladies'. S. L. Silver & Co. No. 104,847; June 22; Gaz. vol. 215; p. 1257.
- Coats and outer suits, Ladies'. S. L. Silver & Co. No. 104,956; June 29; Gaz. vol. 215; p. 1494.
- Coats and overcoats, Men's. The United Woolen Mills Company. No. 107,750; Dec. 28; Gaz. vol. 221; p. 1445.
- Coats and suits. Bischof Sterne & Stein. No. 103,370; Mar. 30; Gaz. vol. 212; p. 1686.
- Coats, cloaks, and suits, Outer. A. Gershel & Co. No. 105,655; Aug. 10; Gaz. vol. 217; p. 695.
- Coats, cloaks, wraps, and capes. The Salt's Textile Manufacturing Company. Nos. 102,181-2; Jan. 26; Gaz. vol. 210; p. 1392.
- Coats, cloaks, wraps, and capes. The Salt's Textile Manufacturing Company. No. 102,449; Feb. 9; Gaz. vol. 211; p. 636.

- Coats, cloaks, wraps, and capes. The Salt's Textile Manufacturing Company. No. 104,266; May 11; Gaz. vol. 214; p. 679.
- Coats, cloaks, wraps, and capes. The Salt's Textile Manufacturing Company. Nos. 105,613-14; Aug. 10; Gaz. vol. 217; p. 694.
- Coats, cloaks, wraps, capes, and hats. Salt's Textile Manufacturing Company. No. 105,371; July 20; Gaz. vol. 216; p. 1009.
- Coats, cloaks, wraps, suits, costumes, and capes. The Salt's Textile Manufacturing Company. Nos. 104,677-8; June 8; Gaz. vol. 215; p. 663.
- Coats, dresses, outer suits and skirts, &c., Women's. Original Sample Cloak & Suit Company. No. 105,697; Aug. 10; Gaz. vol. 217; p. 696.
- Coats, outer suits, and undermuslins, Ladies'. Carson, Pirie, Scott & Co. No. 102,371; Feb. 9; Gaz. vol. 211; p. 634.
- Coats, suits, skirts, &c., Ladies'. Torrey-Epstein Co. No. 105,403; July 20; Gaz. vol. 216; p. 1010.
- Coats, sweaters, shirts, and underwear, &c. The New York Athletic Club of The City of New York. No. 103,789; Apr. 13; Gaz. vol. 213; p. 743.
- Coats, Tennis and women's. S. Einhorn & Son. Nos. 106,585-6; Oct. 26; Gaz. vol. 219; p. 1228.
- Coats, trousers, and waistcoats. Bashwitz Bros. & Co. No. 101,901; Jan. 19; Gaz. vol. 210; p. 1059.
- Coats, trousers, shirts, and underwear, knitted and textile. Wald, Walker & Co. No. 102,473; Feb. 9; Gaz. vol. 211; p. 637.
- Coats, vests, and trousers. M. Born & Company. No. 106,554; Oct. 26; Gaz. vol. 219; p. 1227.
- Coats, vests, trousers, and overcoats. United Woolen Mills Company. No. 105,242; July 13; Gaz. vol. 216; p. 659.
- Coats, vests, trousers, and overcoats, Men's. H. M. Lindenthal & Sons. No. 105,548; Aug. 3; Gaz. vol. 217; p. 336.
- Coats, vests, trousers, overcoats, &c. Aero Tailoring Company. No. 103,274; Mar. 30; Gaz. vol. 212; p. 1683.
- Coats, vests, trousers, overcoats, and balmacaans. Cohn, Rissman & Company. No. 102,600; Feb. 16; Gaz. vol. 211; p. 952.
- Coats, women's coats, and outer and under skirts. Sport. H. S. Friend & Co. No. 107,550; Dec. 7; Gaz. vol. 221; p. 347.
- Cocktails and brandy. Singer Bros. No. 103,682; Apr. 13; Gaz. vol. 213; p. 740.
- Cocoa. Huyler's. No. 102,413; Feb. 9; Gaz. vol. 211; p. 635.
- Cocoa. Runkel Brothers. No. 106,684; Oct. 26; Gaz. vol. 219; p. 1231.
- Cocoa and milk-chocolate. Runkel Brothers. No. 105,370; July 20; Gaz. vol. 216; p. 1009.
- Cocoa, lozenges, and chewing-gum, Breakfast. The Frederick W. Lipps Company of Baltimore City. No. 107,824; Dec. 28; Gaz. vol. 221; p. 1448.
- Cocoa prepared ready for use. The Frederick W. Lipps Company of Baltimore City. No. 102,127; Jan. 26; Gaz. vol. 210; p. 1390.
- Cocoonut, Shredded. The Franklin Baker Company. No. 102,355; Feb. 9; Gaz. vol. 211; p. 634.
- Coffee. Arbuckle Brothers. No. 103,638; Apr. 13; Gaz. vol. 213; p. 739.
- Coffee. Black Hawk Coffee & Spice Company. No. 106,553; Oct. 26; Gaz. vol. 219; p. 1227.
- Coffee. Blecker & Simons. No. 102,958; Mar. 9; Gaz. vol. 212; p. 685.
- Coffee. Bowers Bros. No. 104,345; May 18; Gaz. vol. 214; p. 1023.
- Coffee. Clark & Host Co. No. 105,155; July 6; Gaz. vol. 216; p. 324.
- Coffee. Denison Coffee Co. No. 106,415; Oct. 19; Gaz. vol. 219; p. 924.
- Coffee. Denison Coffee Co. No. 106,844; Nov. 2; Gaz. vol. 220; p. 343.
- Coffee. Denison Coffee Co. No. 107,840; Dec. 28; Gaz. vol. 221; p. 1448.
- Coffee. Denison & Company. No. 104,602; June 8; Gaz. vol. 215; p. 661.
- Coffee. Dwinell-Wright Co. No. 106,848; Nov. 2; Gaz. vol. 220; p. 343.
- Coffee. The Federal Coffee Mills Company. No. 104,870; June 22; Gaz. vol. 215; p. 1258.
- Coffee. Foley Bros. & Quinlan. No. 106,852; Nov. 2; Gaz. vol. 220; p. 344.
- Coffee. Jas. H. Forbes Tea & Coffee Co. No. 102,969; Mar. 9; Gaz. vol. 212; p. 685.
- Coffee. Jas. H. Forbes Tea & Coffee Co. No. 107,165; Nov. 16; Gaz. vol. 220; p. 1036.
- Coffee. Frick & Kaupke. No. 107,059; Nov. 9; Gaz. vol. 220; p. 673.
- Coffee. The Geiger-Fishback Co. No. 107,257; Nov. 16; Gaz. vol. 220; p. 1038.
- Coffee. R. L. Gerhart. Nos. 107,061-2; Nov. 9; Gaz. vol. 220; p. 673.
- Coffee. O. F. Hageman. No. 107,551; Dec. 7; Gaz. vol. 221; p. 347.
- Coffee. Hanley & Kinsella Coffee & Spice Company. No. 102,793; Feb. 23; Gaz. vol. 211; p. 1258.
- Coffee. Firm of A. Held. No. 106,437; Oct. 19; Gaz. vol. 219; p. 924.
- Coffee. Hills Bros. Nos. 105,725-6; Aug. 17; Gaz. vol. 217; p. 1049.
- Coffee. Howard & Casey Co. No. 105,435; July 27; Gaz. vol. 216; p. 1313.
- Coffee. The Johnson-Layne Coffee Co. No. 102,522; Feb. 9; Gaz. vol. 211; p. 638.
- Coffee. Kansas City Wholesale Grocery Co. No. 107,071; Nov. 9; Gaz. vol. 220; p. 673.
- Coffee. Kempler Bros. No. 102,417; Feb. 9; Gaz. vol. 211; p. 635.
- Coffee. C. D. Kenny Co. No. 106,624; Oct. 26; Gaz. vol. 219; p. 1229.
- Coffee. Knickerbocker Mills Company. No. 102,925; Mar. 2; Gaz. vol. 212; p. 324.
- Coffee. Lekas and Drivas. No. 106,636; Oct. 26; Gaz. vol. 219; p. 1230.
- Coffee. G. Lindberg. No. 104,541; June 1; Gaz. vol. 215; p. 320.
- Coffee. The Lowry Coffee Co. No. 102,571; Feb. 16; Gaz. vol. 211; p. 951.
- Coffee. Henry May & Co. No. 102,428; Feb. 9; Gaz. vol. 211; p. 636.
- Coffee. Mississippi Coffee Company. No. 103,861; Apr. 20; Gaz. vol. 213; p. 1111.
- Coffee. National Grocer Company. No. 102,719; Feb. 23; Gaz. vol. 211; p. 1256.
- Coffee. New Orleans Coffee Co. No. 107,580; Dec. 14; Gaz. vol. 221; p. 731.
- Coffee. Oulliber Coffee Company. Nos. 107,091-2; Nov. 9; Gaz. vol. 220; p. 674.
- Coffee. Puhl-Webb Co. No. 103,010; Mar. 16; Gaz. vol. 212; p. 1049.
- Coffee. R. G. Thomas. No. 106,057; Sept. 21; Gaz. vol. 218; p. 873.
- Coffee. H. R. Tippenhauer. No. 104,272; May 11; Gaz. vol. 214; p. 679.
- Coffee. Triumph Mills. No. 101,888; Jan. 12; Gaz. vol. 210; p. 714.
- Coffee. Triumph Mills. Nos. 101,989-90; Jan. 19; Gaz. vol. 210; p. 1061.
- Coffee. Ross W. Weir & Co. No. 103,981; Apr. 20; Gaz. vol. 213; p. 1115.
- Coffee. The Woolson Spice Company. No. 105,283; July 13; Gaz. vol. 216; p. 660.
- Coffee. The Woolson Spice Company. Nos. 105,629-30; Aug. 10; Gaz. vol. 217; p. 694.
- Coffee and chicory. Bowers Bros. No. 102,367; Feb. 9; Gaz. vol. 211; p. 634.
- Coffee and chicory. Latin-American Coffee Co. No. 105,547; Aug. 3; Gaz. vol. 217; p. 336.
- Coffee and chicory. Mississippi Coffee Company. No. 103,860; Apr. 20; Gaz. vol. 213; p. 1111.
- Coffee and chicory. Triumph Mills. No. 101,887; Jan. 12; Gaz. vol. 210; p. 714.
- Coffee and chicory compound and tea. Importers Coffee Co. No. 107,338; Nov. 23; Gaz. vol. 220; p. 1368.
- Coffee and chicory mixture. Cheek-Neal Coffee Co. No. 102,254; Feb. 2; Gaz. vol. 211; p. 279.
- Coffee and chicory preparation, Liquid. C. M. Brooke & Sons. No. 102,035; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee and rice. B. Fischer & Co. No. 104,001; Apr. 27; Gaz. vol. 213; p. 1441.
- Coffee and rice, Roasted. The Overbacker Coffee Co. No. 104,292; May 18; Gaz. vol. 214; p. 1021.
- Coffee and tea. B. J. Bean. No. 104,590; June 8; Gaz. vol. 215; p. 661.
- Coffee and tea. The Ennis-Hanly-Blackburn Coffee Co. No. 105,258; July 13; Gaz. vol. 216; p. 659.
- Coffee and tea. The Holbrook Grocery Co. Nos. 104,560-1; June 1; Gaz. vol. 215; p. 320.
- Coffee and tea. Holbrook Grocery Co. No. 105,482; July 27; Gaz. vol. 216; p. 1314.
- Coffee and tea. The Holbrook Grocery Co. No. 107,614; Dec. 14; Gaz. vol. 221; p. 732.
- Coffee and tea, Blended. Cheek-Neal Coffee Co. No. 102,048; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee and tea, Blended. Cheek-Neal Coffee Co. No. 102,050; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee, Blended. Cheek-Neal Coffee Co. No. 102,049; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee, Blended. Cheek-Neal Coffee Co. No. 102,051; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee, Blended. Cheek-Neal Coffee Co. No. 102,053; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee, Blended. Hanley & Kinsella Coffee & Spice Company. No. 107,332; Nov. 23; Gaz. vol. 220; p. 1367.
- Coffee, Blended. W. F. McLaughlin & Company. No. 107,081; Nov. 9; Gaz. vol. 220; p. 674.
- Coffee, Blended. W. F. McLaughlin & Company. No. 107,623; Dec. 14; Gaz. vol. 221; p. 732.
- Coffee, Blended. The Universal Tea Co. No. 103,922; Apr. 20; Gaz. vol. 213; p. 1113.
- Coffee-clarifier. Morley & Co. No. 104,774; June 15; Gaz. vol. 215; p. 973.
- Coffee compound. Mutual Coffee Co. No. 106,466; Oct. 19; Gaz. vol. 219; p. 925.
- Coffee essence. National Essence For Coffee Company. No. 106,470; Oct. 19; Gaz. vol. 219; p. 925.
- Coffee essence and substitutes. National Essence For Coffee Company. No. 106,886; Nov. 2; Gaz. vol. 220; p. 345.

Alphabetical list of trade-marks—Continued.

- Coffee extract. A. Koloc. No. 106,979; Nov. 9; Gaz. vol. 220; p. 670.
- Coffee extracts. Concentrated. C. Hammer. No. 103,164; Mar. 16; Gaz. vol. 212; p. 1054.
- Coffee, Green. C. A. Mackey. Nos. 105,303-4; July 13; Gaz. vol. 216; p. 660.
- Coffee-grinders. The Adroit Manufacturing Co. No. 104,585; June 8; Gaz. vol. 215; p. 661.
- Coffee, Imitation. F. K. Handy. No. 101,675; Jan. 5; Gaz. vol. 210; p. 395.
- Coffee, Imitation. E. Prokesch. No. 106,797; Oct. 26; Gaz. vol. 219; p. 1234.
- Coffee preparations. Société du Café Soluble Belna. No. 102,548; Feb. 9; Gaz. vol. 211; p. 639.
- Coffee, Roasted. Cheek-Neal Coffee Co. No. 102,047; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee, Roasted. Cheek-Neal Coffee Co. No. 102,052; Jan. 26; Gaz. vol. 210; p. 1388.
- Coffee, Roasted. Nave-McCord Mer. Co. No. 102,577; Feb. 16; Gaz. vol. 211; p. 951.
- Coffee, Roasted. The Overbacker Coffee Co. Nos. 104,028-9; Apr. 27; Gaz. vol. 213; p. 1442.
- Coffee, Roasted. The Overbacker Coffee Co. No. 104,569; June 1; Gaz. vol. 215; p. 321.
- Coffee, Roasted. William Schotten Coffee Co. No. 104,845; June 22; Gaz. vol. 215; p. 1257.
- Coffee, Roasted. William Schotten Coffee Co. No. 107,016; Nov. 9; Gaz. vol. 220; p. 672.
- Coffee, Roasted. Steinwender-Stoffregen Coffee Co. No. 104,810; June 15; Gaz. vol. 215; p. 974.
- Coffee, Roasted. Steinwender-Stoffregen Coffee Co. No. 107,023; Nov. 9; Gaz. vol. 220; p. 672.
- Coffee, Roasted. The Western Coffee Co. No. 103,633; Apr. 6; Gaz. vol. 213; p. 358.
- Coffee, Roasted ground. A. M. & J. C. Dupont. No. 104,963; June 29; Gaz. vol. 215; p. 1494.
- Coffee substitute. Cereal. Kono Cereal Co. No. 104,735; June 15; Gaz. vol. 215; p. 972.
- Coffee substitute. Cereal. Monroe Drug Co. No. 106,465; Oct. 19; Gaz. vol. 219; p. 925.
- Coffee substitute. Cereal. O. H. Reynolds. No. 102,867; Feb. 23; Gaz. vol. 211; p. 1261.
- Coffee, tea, and cocoa. Ceylana Tea Company. No. 103,645; Apr. 13; Gaz. vol. 213; p. 739.
- Coffee, tea, and cocoa. C. F. Smith. No. 106,808; Oct. 26; Gaz. vol. 219; p. 1235.
- Coffee, tea, and spices. Eureka Coffee Co. No. 107,163; Nov. 16; Gaz. vol. 220; p. 1036.
- Coffee, tea, and spices. Triumph Mills. No. 102,210; Jan. 26; Gaz. vol. 210; p. 1393.
- Coffee, tea, cocoa, sugar, &c. A. O. Mojo. No. 105,167; July 6; Gaz. vol. 216; p. 324.
- Coffee, tea, olive-oils, and cocoa. A. J. Sheldon Co. No. 105,945; Aug. 31; Gaz. vol. 217; p. 1657.
- Coffee, tea, spices, and flavoring extracts. German American Coffee Company. No. 105,390; July 20; Gaz. vol. 216; p. 1009.
- Coffees and teas. Gowan-Lenning-Brown Co. No. 105,348; July 20; Gaz. vol. 216; p. 1008.
- Coffees, Blended. The Campbell & Woods Company. No. 104,013; Apr. 27; Gaz. vol. 213; p. 1441.
- Coffees, cocoas, and teas. A. F. MacDougall. No. 107,761; Dec. 28; Gaz. vol. 221; p. 1446.
- Coffees, teas, rice, spices, &c. C. F. Bonsor & Co. No. 103,371; Mar. 30; Gaz. vol. 212; p. 1686.
- Cognacs and brandies. Barbalessos Bros. No. 104,856; June 22; Gaz. vol. 215; p. 1258.
- Collar supporters and foundations. Joseph W. Schloss Co. No. 102,453; Feb. 9; Gaz. vol. 211; p. 636.
- Collar supporters and foundations. Joseph W. Schloss Co. No. 103,968; Apr. 20; Gaz. vol. 213; p. 1114.
- Collar-supports. The Warren Featherbone Company. No. 101,994; Jan. 19; Gaz. vol. 210; p. 1062.
- Collar-supports. The Warren Featherbone Company. No. 102,228; Jan. 26; Gaz. vol. 210; p. 1393.
- Collars. J. & M. Cohn. No. 104,443; June 1; Gaz. vol. 215; p. 317.
- Collars. Hall, Hartwell & Co. No. 103,657; Apr. 13; Gaz. vol. 213; p. 739.
- Collars, Ladies'. Timothy F. Crowley, Incorporated. No. 104,668; June 8; Gaz. vol. 215; p. 663.
- Collars, Ladies'. Timothy F. Crowley, Incorporated. No. 104,962; June 29; Gaz. vol. 215; p. 1494.
- Collars made of fancy and plain nets, laces, chiffons, &c., Ladies'. Timothy F. Crowley Incorporated. No. 102,560; Feb. 16; Gaz. vol. 211; p. 951.
- Collars made of nets, laces, chiffons, &c., Ladies'. Timothy F. Crowley, Incorporated. No. 102,680; Feb. 23; Gaz. vol. 211; p. 1255.
- Collars made of nets, laces, chiffons, &c., Ladies'. Timothy F. Crowley, Incorporated. No. 102,856; Feb. 23; Gaz. vol. 211; p. 1260.
- Collars, Women's. S. M. Schwartz & Co. No. 103,037; Mar. 16; Gaz. vol. 212; p. 1050.
- Collarets. C. Dernburg & Son. No. 102,069; Jan. 26; Gaz. vol. 210; p. 1389.
- Cologne. F. B. Lackland. No. 103,616; Apr. 6; Gaz. vol. 213; p. 357.
- Color to surfaces. Specially-prepared material for imparting. L. G. Reynolds. No. 102,539; Feb. 9; Gaz. vol. 211; p. 639.
- Colors, Artists'. H. Schmincke & Co. No. 103,249; Mar. 23; Gaz. vol. 212; p. 1354.
- Colors, painters' oils, and varnishes. Oil and water. H. Schmincke & Co. No. 103,250; Mar. 23; Gaz. vol. 212; p. 1354.
- Combs, Aluminum toilet. Aluminum Goods Mfg. Company. No. 106,538; Oct. 26; Gaz. vol. 219; p. 1227.
- Combs and hair-curlers other than electric. Toilet. F. Wolkow & Sons. No. 107,302; Nov. 16; Gaz. vol. 220; p. 1040.
- Combs, Toilet. Noyes Comb Company. No. 102,581; Feb. 16; Gaz. vol. 211; p. 952.
- Composition of certain named ingredients. E. A. Bullis & Co. No. 103,777; Apr. 13; Gaz. vol. 213; p. 743.
- Composition used in manufacturing, cleansing, and improving the texture of certain named articles. The United Yeast Company. No. 103,014; Mar. 16; Gaz. vol. 212; p. 1049.
- Compound capable of resisting high temperatures. Estate of A. E. Foote. Nos. 106,756-7; Oct. 26; Gaz. vol. 219; p. 1233.
- Compound for the treatment of rheumatism. A. Lang. No. 103,169; Mar. 16; Gaz. vol. 212; p. 1054.
- Compound for treating eczema. J. I. Sims. No. 106,263; Oct. 19; Gaz. vol. 219; p. 919.
- Compound for treatment of dandruff and eczema and for a hair-tonic. Whetzel, Billups & Pickrell. No. 104,496; June 1; Gaz. vol. 215; p. 318.
- Compounds of whisky, grenadine and rock-candy syrups, and lime-juice. Santa Clara Company. No. 103,599; Apr. 6; Gaz. vol. 213; p. 357.
- Concrete-hardener, waterproofing compound for concrete. Pittsburgh Crushed Steel Co. No. 101,792; Jan. 12; Gaz. vol. 210; p. 711.
- Concrete-hardening preparation. Penetum Manufacturing Company. No. 105,367; July 20; Gaz. vol. 216; p. 1008.
- Concrete *in situ*, Molding apparatus for casting. Unit-Wall Construction Company. No. 104,579; June 1; Gaz. vol. 215; p. 321.
- Concrete-mixers. The Miles Manufacturing Co. No. 107,432; Nov. 23; Gaz. vol. 220; p. 1370.
- Concrete-reinforcement bars. The Consolidated Expanded Metal Companies. No. 102,377; Feb. 9; Gaz. vol. 211; p. 634.
- Condensers, Steam-. Alberger Pump and Condenser Company. No. 101,761; Jan. 12; Gaz. vol. 210; p. 710.
- Condensers, Steam-. C. H. Wheeler Manufacturing Company. No. 107,130; Nov. 9; Gaz. vol. 220; p. 675.
- Condiment for salads, Liquid. American Food Products Company. No. 103,551; Apr. 6; Gaz. vol. 213; p. 355.
- Confection, Corn. Kellogg Toasted Corn Flake Co. No. 106,978; Nov. 9; Gaz. vol. 220; p. 670.
- Confection, Popcorn. C. L. Smith. No. 104,269; May 11; Gaz. vol. 214; p. 679.
- Confections. Rohrer Candy Company. No. 106,017; Sept. 14; Gaz. vol. 218; p. 599.
- Confections, Popcorn and peanut. Amalgamated Concessions Co. No. 106,823; Nov. 2; Gaz. vol. 220; p. 343.
- Confectionery and bakery goods. Snow's Fountains, Inc. No. 105,375; July 20; Gaz. vol. 216; p. 1009.
- Conserved cherries. Rheinstrom Bros. No. 104,989; June 29; Gaz. vol. 215; p. 1495.
- Conserved cherries, pineapple, and grape-fruit. Rheinstrom Bros. No. 105,275; July 13; Gaz. vol. 216; p. 660.
- Construction-blocks. M. E. Converse & Son. No. 107,515; Dec. 7; Gaz. vol. 221; p. 346.
- Construction material, Certain named. General Roofing Manufacturing Company. No. 103,781; Apr. 13; Gaz. vol. 213; p. 743.
- Construction material, Certain named. Tompkins-Kiel Marble Co. No. 107,298; Nov. 16; Gaz. vol. 220; p. 1040.
- Construction materials, Certain named. Badger Steel Roofing and Corrugating Co. No. 107,753; Dec. 28; Gaz. vol. 221; p. 1445.
- Construction materials, Certain named. Baltimore Roofing & Asbestos Mfg. Co. No. 107,143; Nov. 16; Gaz. vol. 220; p. 1035.
- Construction materials, Certain named. The Binder Company. No. 103,338; Mar. 30; Gaz. vol. 212; p. 1685.
- Construction materials, Certain named. The Philip Carey Manufacturing Company. No. 105,340; July 20; Gaz. vol. 216; p. 1008.
- Construction materials, Certain named. The Moeschl-Edwards Corrugating Co. No. 107,626; Dec. 14; Gaz. vol. 221; p. 732.
- Construction materials, Certain named. Warren Chemical and Manufacturing Company. No. 102,663; Feb. 16; Gaz. vol. 211; p. 954.
- Conveyers and conveying machinery. The Alvey-Ferguson Co. No. 107,508; Dec. 7; Gaz. vol. 221; p. 346.
- Cookies and cakes. Robert A. Johnston Co. No. 107,343; Nov. 23; Gaz. vol. 220; p. 1368.
- Cooking compound containing cotton-seed oil and oleo-stearin. The N. K. Fairbank Company. No. 102,744; Feb. 23; Gaz. vol. 211; p. 1257.
- Cooking utensils, Aluminum. R. Johns. No. 102,112; Jan. 26; Gaz. vol. 210; p. 1390.
- Cooking utensils, Certain named. Aluminum Goods Mfg. Company. No. 106,279; Oct. 19; Gaz. vol. 219; p. 919.

- Cooking utensils made of aluminum or alloys of same. The Aluminum Cooking Utensil Co. No. 106,135; Oct. 12; Gaz. vol. 219; p. 582.
- Cord for clothing, Stiffening. Green Shoulder Form & Pad Company. No. 105,843; Aug. 24; Gaz. vol. 217; p. 1335.
- Cordial. J. Rodriguez. No. 105,369; July 20; Gaz. vol. 216; p. 1009.
- Cordial, a compound. Sanchez Leal Hermanos. No. 105,204; July 13; Gaz. vol. 216; p. 658.
- Cordials. Puziello, Luccaro & Co. No. 103,120; Mar. 16; Gaz. vol. 212; p. 1052.
- Cork disks and tin bottle-caps made up with granulated-cork disks. J. Torres. No. 104,842; May 18; Gaz. vol. 214; p. 1022.
- Cork, disks made therefrom, and bottle-closures, Artificial. The Crown Cork & Seal Co. of Baltimore City. No. 104,419; May 25; Gaz. vol. 214; p. 1317.
- Corks, and particularly wood-top corks. Armstrong Cork Company. No. 106,195; Oct. 19; Gaz. vol. 219; p. 917.
- Corn flakes, wheat biscuits and flakes, Toasted. Kellogg Toasted Corn Flake Co. No. 107,072; Nov. 9; Gaz. vol. 220; p. 673.
- Corn-plasters. C. T. Langdon. No. 102,288; Feb. 2; Gaz. vol. 211; p. 280.
- Corn-starch. Corn Products Refining Co. No. 102,064; Jan. 26; Gaz. vol. 210; p. 1388.
- Corn-starch. National Starch Co. No. 106,471; Oct. 19; Gaz. vol. 219; p. 925.
- Corn-starch. National Starch Co. No. 107,363; Nov. 23; Gaz. vol. 220; p. 1368.
- Corn, White dent. Farmer Seed & Nursery Co. No. 104,015; Apr. 27; Gaz. vol. 213; p. 1441.
- Corn, Yellow dent. Farmer Seed & Nursery Co. No. 103,262; Mar. 23; Gaz. vol. 212; p. 1355.
- Cornmeal. The Ansted & Burk Co. No. 107,593; Dec. 14; Gaz. vol. 221; p. 731.
- Cornmeal. C. Broeker & Co. No. 102,783; Feb. 23; Gaz. vol. 211; p. 1258.
- Cornmeal. The William Lea & Sons Company. No. 104,390; May 25; Gaz. vol. 214; p. 1316.
- Cornmeal. The Park & Pollard Company. No. 106,488; Oct. 19; Gaz. vol. 219; p. 926.
- Cornmeal, grits, corn chops, mixed feed, &c. Marsh Commission Company. No. 106,053; Sept. 21; Gaz. vol. 218; p. 873.
- Corset-lacings. Weingarten Bros. No. 103,835; Apr. 13; Gaz. vol. 213; p. 745.
- Corset-waists. Birdsey-Somers Company. No. 107,833; Dec. 28; Gaz. vol. 221; p. 1448.
- Corsets. Francé Corset Company. No. 101,627; Jan. 5; Gaz. vol. 210; p. 393.
- Corsets. Kops Bros. No. 106,451; Oct. 19; Gaz. vol. 219; p. 925.
- Corsets. F. R. Macdonald. No. 107,760; Dec. 28; Gaz. vol. 221; p. 1446.
- Corsets. M. E. Smith & Co. No. 102,192; Jan. 26; Gaz. vol. 210; p. 1392.
- Corsets, brassières, underbodies, &c. Benjamin & Johnes. No. 102,027; Jan. 26; Gaz. vol. 210; p. 1387.
- Corsets, brassières, underbodies, &c. Benjamin & Johnes. No. 102,358; Feb. 9; Gaz. vol. 211; p. 634.
- Corsets, corset covers and pads. Kops Bros. No. 105,436; July 27; Gaz. vol. 216; p. 1313.
- Corsets, corset-waists, brassières, &c. G. A. Barclay. No. 103,938; Apr. 20; Gaz. vol. 213; p. 1113.
- Corundum, Artificial. E. Moyat. No. 106,248; Oct. 19; Gaz. vol. 219; p. 918.
- Cosmetic for effecting growth of eyelashes and eyebrows. Lashneen Company. No. 104,459; June 1; Gaz. vol. 215; p. 317.
- Costume, Outing. Drezwell Co. No. 107,755; Dec. 28; Gaz. vol. 221; p. 1445.
- Costumes, waists, and dresses, Ladies' mourning. Max Greenberg & Company. No. 107,682; Dec. 21; Gaz. vol. 221; p. 1035.
- Cotton, Absorbent. C. A. Kittle. No. 104,351; May 25; Gaz. vol. 214; p. 1315.
- Cotton, Absorbent. Southern Aseptic Laboratories. No. 106,376; Oct. 19; Gaz. vol. 219; p. 922.
- Cotton and knit goods in the piece, and blankets. Staudt & Co. No. 102,819; Feb. 23; Gaz. vol. 211; p. 1259.
- Cotton and linen fabrics, Certain named. California Cotton Mills Co. No. 103,091; Mar. 16; Gaz. vol. 212; p. 1052.
- Cotton and silk and cotton piece goods. Devonshire Mills Co. No. 106,845; Nov. 2; Gaz. vol. 220; p. 343.
- Cotton and silk or wool plush, velours, and velvet piece goods, Pile. W. H. Rollinson. No. 106,682; Oct. 26; Gaz. vol. 219; p. 1231.
- Cotton and wool piece goods. Currick, Leiken & Bandler. No. 105,506; July 27; Gaz. vol. 216; p. 1315.
- Cotton and wool waste. Royal Manufacturing Company. No. 107,530; Dec. 7; Gaz. vol. 221; p. 347.
- Cotton and woolen midsummer-suiting. Kahn Tailoring Company. No. 106,448; Oct. 19; Gaz. vol. 219; p. 925.
- Cotton, &c., cloth. Bellwill Cotton Mills. No. 107,831; Dec. 28; Gaz. vol. 221; p. 1448.
- Cotton, cotton and wool, and woolen piece goods. French & Ward. No. 106,593; Oct. 26; Gaz. vol. 219; p. 1228.
- Cotton, Crochet. Carson, Pirie, Scott & Co. Nos. 105,938-40; Aug. 31; Gaz. vol. 217; p. 1657.
- Cotton, Crochet. Nonotuck Silk Company. No. 106,658; Oct. 26; Gaz. vol. 219; p. 1230.
- Cotton dress fabrics. N. Erlinger, Blumgart & Co. No. 105,434; July 27; Gaz. vol. 216; p. 1313.
- Cotton dress goods in the piece and cotton linings. Wm. Simpson Sons & Co. No. 101,880; Jan. 12; Gaz. vol. 210; p. 713.
- Cotton duck. Turner, Halsey Company. No. 104,491; June 1; Gaz. vol. 215; p. 318.
- Cotton duck, cotton piece and dress goods. J. Spencer Turner Company. No. 103,832; Apr. 13; Gaz. vol. 213; p. 745.
- Cotton fabrics for making bags. Van Hee, Hunter, and Parsons Company. No. 103,923; Apr. 20; Gaz. vol. 213; p. 1113.
- Cotton fiber in sheet or blanket form stitched throughout, Unspun. Knitted Padding Company. No. 104,801; June 15; Gaz. vol. 215; p. 974.
- Cotton-gathering machinery. Cotton Gathering Corporation. No. 104,068; Apr. 27; Gaz. vol. 213; p. 1443.
- Cotton goods, Printed and dyed. Eddestone Manufacturing Company. No. 105,432; July 27; Gaz. vol. 216; p. 1313.
- Cotton, linen, silk, and woolen piece goods. B. F. Bailey. No. 106,545; Oct. 26; Gaz. vol. 219; p. 1227.
- Cotton, linen, silk, and woolen piece goods. Prince Lauten Co. No. 105,827; Aug. 17; Gaz. vol. 217; p. 1052.
- Cotton, linen, silk, and wool piece goods and mixtures thereof. Rice-Strix Dry Goods Company. No. 101,978; Jan. 19; Gaz. vol. 210; p. 1061.
- Cotton, linen, woolen, and silk goods. J. H. Meyer & Co. No. 103,174; Mar. 16; Gaz. vol. 212; p. 1054.
- Cotton piece and dress goods. Amoskeag Manufacturing Company. No. 101,823; Jan. 12; Gaz. vol. 210; p. 712.
- Cotton piece and dress goods. Jackson Company. No. 104,057; Apr. 27; Gaz. vol. 213; p. 1443.
- Cotton piece and dress goods. Lancaster Mills. No. 107,266; Nov. 16; Gaz. vol. 220; p. 1039.
- Cotton piece and dress goods. Nashua Manufacturing Company. No. 103,715; Apr. 13; Gaz. vol. 213; p. 741.
- Cotton piece and dress goods and drills. Indian Head Mills of Alabama. No. 103,615; Apr. 6; Gaz. vol. 213; p. 357.
- Cotton piece goods. Appleton Company. No. 103,143; Mar. 16; Gaz. vol. 212; p. 1053.
- Cotton piece goods. Carl Co. No. 104,708; June 15; Gaz. vol. 215; p. 971.
- Cotton piece goods. S. A. Crozer & Son. No. 106,843; Nov. 2; Gaz. vol. 220; p. 343.
- Cotton piece goods. R. del Castillo & Company. No. 105,647; Aug. 10; Gaz. vol. 217; p. 695.
- Cotton piece goods. Dilisizian Bros. No. 105,512; Aug. 3; Gaz. vol. 217; p. 335.
- Cotton piece goods. Doyle-Kidd Dry Goods Co. No. 103,097; Mar. 16; Gaz. vol. 212; p. 1052.
- Cotton piece goods. M. H. Ellenbogen. No. 103,155; Mar. 16; Gaz. vol. 212; p. 1053.
- Cotton piece goods. Everett Mills. No. 103,157; Mar. 16; Gaz. vol. 212; p. 1054.
- Cotton piece goods. Fall River Bleachery. No. 106,421; Oct. 19; Gaz. vol. 219; p. 924.
- Cotton piece goods. N. Fluegelman & Co. No. 103,649; Apr. 13; Gaz. vol. 213; p. 739.
- Cotton piece goods. King Philip Mills. No. 103,103; Mar. 16; Gaz. vol. 212; p. 1052.
- Cotton piece goods. Lorraine Manufacturing Company. No. 105,237; July 13; Gaz. vol. 216; p. 659.
- Cotton piece goods. The Lowe Mfg. Co. No. 107,759; Dec. 28; Gaz. vol. 221; p. 1446.
- Cotton piece goods. M. M. V. Co. No. 104,837; June 22; Gaz. vol. 215; p. 1257.
- Cotton piece goods. Manchester Cotton Mills. No. 103,666; Apr. 13; Gaz. vol. 213; p. 740.
- Cotton piece goods. The Millville Manufacturing Company. No. 101,964; Jan. 19; Gaz. vol. 210; p. 1061.
- Cotton piece goods. Millville Manufacturing Company. No. 105,467; July 27; Gaz. vol. 216; p. 1314.
- Cotton piece goods. The Millville Manufacturing Company. No. 105,550; Aug. 3; Gaz. vol. 217; p. 336.
- Cotton piece goods. Monaghan Mills. No. 105,501; July 27; Gaz. vol. 216; p. 1315.
- Cotton piece goods. Ostrander & Company. No. 106,893; Nov. 2; Gaz. vol. 220; p. 345.
- Cotton piece goods. Charles L. Poor Co. No. 103,178; Mar. 16; Gaz. vol. 212; p. 1054.
- Cotton piece goods. Quinebaug Company. No. 106,900; Nov. 2; Gaz. vol. 220; p. 345.
- Cotton piece goods. A. L. Reid & Co. No. 105,752; Aug. 17; Gaz. vol. 217; p. 1050.
- Cotton piece goods. Renfrew M'fg Co. No. 105,869; Aug. 24; Gaz. vol. 217; p. 1336.
- Cotton piece goods. Rogers & Thompson. No. 106,681; Oct. 26; Gaz. vol. 219; p. 1231.
- Cotton piece goods. Schwabach & Raphael. No. 102,883; Feb. 23; Gaz. vol. 211; p. 1261.
- Cotton piece goods. J. L. Stifel & Sons. No. 104,033; Apr. 27; Gaz. vol. 213; p. 1442.
- Cotton piece goods. Stix, Baer & Fuller Dry Goods Company. No. 104,428; May 25; Gaz. vol. 214; p. 1317.
- Cotton piece goods. Tremont & Suffolk Mills. No. 103,131; Mar. 16; Gaz. vol. 212; p. 1053.

Alphabetical list of trade-marks—Continued.

- Cotton piece goods. Victor Manufacturing Co. No. 105,327; July 20; Gaz. vol. 216; p. 1007.
- Cotton piece goods. Warner-Godfrey Co. No. 107,031; Nov. 9; Gaz. vol. 220; p. 672.
- Cotton piece goods. Wegelin & Schweizer. No. 104,495; June 1; Gaz. vol. 215; p. 318.
- Cotton piece goods. G. Willis & Company. No. 101,847; Jan. 12; Gaz. vol. 210; p. 712.
- Cotton piece goods. G. Willis & Co. No. 103,099; Mar. 16; Gaz. vol. 212; p. 1052.
- Cotton piece goods. G. Willis & Co. No. 103,163; Mar. 16; Gaz. vol. 212; p. 1054.
- Cotton piece goods. G. Willis & Co. No. 105,093; July 6; Gaz. vol. 216; p. 322.
- Cotton piece goods. G. Willis & Company. No. 107,063; Nov. 9; Gaz. vol. 220; p. 673.
- Cotton piece goods. York Manufacturing Company. Nos. 104,010-11; Apr. 27; Gaz. vol. 213; p. 1441.
- Cotton piece goods. York Manufacturing Company. No. 105,330; July 20; Gaz. vol. 216; p. 1007.
- Cotton piece goods. York Manufacturing Co. No. 107,770; Dec. 28; Gaz. vol. 221; p. 1446.
- Cotton piece goods and napkins. Jackson Company. No. 105,539; Aug. 3; Gaz. vol. 217; p. 336.
- Cotton piece goods, Certain named. Tootal, Broadhurst Lee Company. No. 104,917; June 22; Gaz. vol. 215; p. 1259.
- Cotton plaids, Woven. Neuss Hesslein & Co. No. 105,444; July 27; Gaz. vol. 216; p. 1313.
- Cotton plaids, Woven. Neuss, Hesslein & Co. No. 106,008; Sept. 14; Gaz. vol. 218; p. 599.
- Cotton-seed meal and cake. Choctaw Sales Company. No. 104,319; May 18; Gaz. vol. 214; p. 1022.
- Cotton, silk, mixed silk and cotton, and linen piece goods. A. G. Hyde & Sons. No. 103,165; Mar. 16; Gaz. vol. 212; p. 1054.
- Cotton yarns. Holmes Manufacturing Company. No. 102,861; Feb. 23; Gaz. vol. 211; p. 1261.
- Cotton yarns, Mercerized, &c. Harding, Tilton & Company. No. 102,859; Feb. 23; Gaz. vol. 211; p. 1261.
- Cough compound. J. H. Garriss. No. 107,665; Dec. 14; Gaz. vol. 221; p. 734.
- Cough-drops and catarrh-bonbons. W. Fritz Company. No. 104,873; June 22; Gaz. vol. 215; p. 1258.
- Cough-drops, Menthol. Coughlin Bros. No. 101,622; Jan. 5; Gaz. vol. 210; p. 393.
- Cough-syrup. The Dill Medicine Company. No. 107,754; Dec. 28; Gaz. vol. 221; p. 1445.
- Cough-syrup. B. E. Fletcher. No. 103,947; Apr. 20; Gaz. vol. 213; p. 1114.
- Cough-syrup. E. R. Miller. No. 106,116; Oct. 12; Gaz. vol. 219; p. 582.
- Cough-syrup and hair-tonic. G. W. Collins. No. 102,256; Feb. 2; Gaz. vol. 211; p. 279.
- Cough-syrups. J. H. Morgan. No. 105,860; Aug. 24; Gaz. vol. 217; p. 1335.
- Coughs, colds, and catarrh. Laxago Bitters Co. No. 102,974; Mar. 9; Gaz. vol. 212; p. 685.
- Crab and fish traps. Abbey & Imbrie. No. 105,286; July 13; Gaz. vol. 216; p. 660.
- Crackers. W. H. Daniels. No. 105,409; July 20; Gaz. vol. 216; p. 1010.
- Crackers. The Lindquist Cracker Co. No. 104,563; June 1; Gaz. vol. 215; p. 321.
- Crackers. Walker & Tracy. No. 104,690; June 8; Gaz. vol. 215; p. 664.
- Crackers. Walker & Tracy. No. 104,853; June 22; Gaz. vol. 215; p. 1258.
- Crackers and biscuits. W. M. Brownell. No. 102,037; Jan. 26; Gaz. vol. 210; p. 1385.
- Crackers and biscuits. New England Biscuit Company. No. 104,565; June 1; Gaz. vol. 215; p. 321.
- Crackers and cakes. Item Biscuit Co. No. 103,062; Mar. 16; Gaz. vol. 212; p. 1051.
- Crackers, biscuit, bread, and pastry. N. C. Rand. No. 104,108; Apr. 27; Gaz. vol. 213; p. 1444.
- Crackers, biscuit, wafers, &c. American Bakeries Co. No. 106,924; Nov. 9; Gaz. vol. 220; p. 669.
- Crackers, biscuits, snaps, and candy. Pacific Coast Biscuit Company. No. 106,996; Nov. 9; Gaz. vol. 220; p. 671.
- Crackers, cakes, and biscuits. Iten Biscuit Co. No. 103,897; Apr. 20; Gaz. vol. 213; p. 1112.
- Crackers, Oyster. The Geo. H. Strietmann's Sons Co. No. 104,851; June 22; Gaz. vol. 215; p. 1257.
- Cranberries. G. W. Davis. No. 104,601; June 8; Gaz. vol. 215; p. 661.
- Crayons. Binney & Smith Company. No. 104,814; June 15; Gaz. vol. 215; p. 974.
- Crayons. Max Rosner Co. No. 106,536; Oct. 19; Gaz. vol. 219; p. 927.
- Crayons, Chalk writing. E. W. A. Rowles. No. 107,013; Nov. 9; Gaz. vol. 220; p. 672.
- Cream and skin-cleanser. Cold-. L. Rivears. No. 104,515; June 1; Gaz. vol. 215; p. 319.
- Cream and toilet soap, Shaving. H. Wilcox. No. 101,688; Jan. 5; Gaz. vol. 210; p. 395.
- Cream, Cold-. The Emil Schult Toilet Article Company. No. 106,262; Oct. 19; Gaz. vol. 219; p. 919.
- Cream, Cold-. New England Laboratory Co. No. 104,101; Apr. 27; Gaz. vol. 213; p. 1444.
- Cream, Cold-. The Pompeian Mfg. Co. No. 106,121; Oct. 12; Gaz. vol. 219; p. 582.
- Cream, Face-. L. A. Borland. No. 105,833; Aug. 24; Gaz. vol. 217; p. 1335.
- Cream, Face-. R. Finger & Co. No. 105,751; Aug. 17; Gaz. vol. 217; p. 1050.
- Cream, face, &c., powders, and toilet water, Cold-. The Remmers Soap Company. No. 103,035; Mar. 16; Gaz. vol. 212; p. 1050.
- Cream, Greaseless massage face-. J. B. Johnson. No. 106,003; Sept. 14; Gaz. vol. 218; p. 599.
- Cream, manicuring paste and polish, &c., Cold-. G. L. Gibson. No. 106,854; Nov. 2; Gaz. vol. 220; p. 344.
- Cream preparation for toilet use. P. Folkman. No. 105,913; Aug. 24; Gaz. vol. 217; p. 1337.
- Cream-separators. Firm of H. Lanz. No. 104,770; June 15; Gaz. vol. 215; p. 973.
- Cream-separators. Swedish Separator Co. No. 104,785; June 15; Gaz. vol. 215; p. 973.
- Cream-separators, clarifiers, and milking-machines. The Sharples Separator Co. No. 104,955; June 29; Gaz. vol. 215; p. 1494.
- Cream, Toilet. S. Fargo. No. 103,851; Apr. 20; Gaz. vol. 213; p. 1111.
- Cream, Toilet. S. Fargo. No. 106,310; Oct. 19; Gaz. vol. 219; p. 920.
- Cream, Toilet. Morris & Morris. No. 102,688; Feb. 23; Gaz. vol. 211; p. 1255.
- Cream, Toilet. W. G. Rogers. No. 102,542; Feb. 9; Gaz. vol. 211; p. 639.
- Creams, Cold and massage. Colgate & Co. No. 106,218; Oct. 19; Gaz. vol. 219; p. 917.
- Creams, rouge, &c., Cleansing and massaging. Wood & Barnard. No. 106,389; Oct. 19; Gaz. vol. 219; p. 923.
- Creams, Skin-. Richard Hudnut. No. 105,162; July 6; Gaz. vol. 216; p. 324.
- Creams, Toilet. Society Specialty Co. No. 106,039; Sept. 14; Gaz. vol. 218; p. 600.
- Crochet needles and hooks. Campbell, Metzger & Jacobson. No. 105,338; July 20; Gaz. vol. 216; p. 1008.
- Crockery and earthenware, Certain named. The Brush-McCoy Pottery Company. No. 104,665; June 8; Gaz. vol. 215; p. 663.
- Crockery, earthenware, and chinaware. C. E. Wheelock & Co. No. 102,703; Feb. 23; Gaz. vol. 211; p. 1256.
- Crockery, earthenware, and porcelain, Certain named articles of. Geo. Bergfeldt & Co. No. 105,934; Aug. 31; Gaz. vol. 217; p. 1657.
- Crucibles. Alexander Smith, Limited. No. 105,172; July 6; Gaz. vol. 216; p. 325.
- Cuffs. G. P. Helmers. No. 101,944; Jan. 19; Gaz. vol. 210; p. 1060.
- Cultivator-shovel anchor-castings. M. Shrimplin. No. 102,725; Feb. 23; Gaz. vol. 211; p. 1257.
- Cultivator-shovels. Deere & Company. No. 103,847; Apr. 20; Gaz. vol. 213; p. 1111.
- Cultivators. Parlin & Orendorff Co. No. 106,489; Oct. 19; Gaz. vol. 219; p. 926.
- Cultivators and harrows and parts thereof. International Harvester Company of New Jersey. No. 101,779; Jan. 12; Gaz. vol. 210; p. 710.
- Culverts and flumes. C. C. Fouts Co. No. 106,321; Oct. 19; Gaz. vol. 219; p. 921.
- Culverts, Corrugated metal. J. C. Fleming. No. 102,786; Feb. 23; Gaz. vol. 211; p. 1258.
- Culverts, Sheet-metal. Birmingham Metal Products Co. No. 106,932; Nov. 9; Gaz. vol. 220; p. 669.
- Curtain-poles and brackets and trimmings, folding draft-screens. The Roos Mfg. Co. No. 106,368; Oct. 19; Gaz. vol. 219; p. 922.
- Curtain-rods, Metal. The Turner & Seymour Manufacturing Co. No. 105,002; June 29; Gaz. vol. 215; p. 1495.
- Curtain, table-cover, and upholstery goods. The Moss Rose Manufacturing Company. No. 101,863; Jan. 12; Gaz. vol. 210; p. 713.
- Curtains and draperies. The Scranton Lace Company. No. 104,485; June 1; Gaz. vol. 215; p. 318.
- Cutlery and machinery, Certain named. The Gus V. Brecht Butchers' Supply Company. No. 105,994; Sept. 14; Gaz. vol. 218; p. 599.
- Cutlery and machines and parts thereof, Certain named. The D. Eugster Importing Company. No. 106,045; Sept. 21; Gaz. vol. 218; p. 873.
- Cutlery and tools and machinery, Certain named. The Betz-Pierce Company. No. 101,696; Jan. 5; Gaz. vol. 210; p. 395.
- Cutlery and tools, Certain named. The American Axe & Tool Company. Nos. 105,636-7; Aug. 10; Gaz. vol. 217; p. 695.
- Cutlery and tools, Certain named. American Hardware and Supply Company. No. 103,608; Apr. 6; Gaz. vol. 213; p. 857.
- Cutlery and tools, Certain named. Henry Disston & Sons. No. 101,922; Jan. 19; Gaz. vol. 210; p. 1060.
- Cutlery and tools, Certain named. Sargent & Company. No. 104,293; May 18; Gaz. vol. 214; p. 1021.
- Cutlery, machinery, and tools, Certain named. The Charles William Stores. No. 104,811; June 15; Gaz. vol. 215; p. 974.

- Cutlery, machinery, and tools, Certain named. Hibbard, Spencer, Bartlett & Co. No. 104,614; June 8; Gaz. vol. 215; p. 662.
- Cutlery, machinery, &c., Certain named. Pittsburgh Iron and Steel Foundries Company. No. 106,495; Oct. 19; Gaz. vol. 219; p. 926.
- Cutlery, Non-precious-metal. Heinr. Böker & Co. No. 106,934; Nov. 9; Gaz. vol. 220; p. 669.
- Cutlery, Table and kitchen. H. Böker & Co. No. 105,578; Aug. 10; Gaz. vol. 217; p. 693.
- Cutlery, tools, and machinery, Certain named. Curtis & Co. Mfg Co. No. 105,389; July 20; Gaz. vol. 216; p. 6.
- Cutlery, tools, and parts thereof, Certain. The Jennings & Griffin Manufacturing Co. No. 105,356; July 20; Gaz. vol. 216; p. 1008.
- Cutlery, tools, and parts thereof, Certain named. Aktiebolaget Volvo. No. 107,806; Dec. 28; Gaz. vol. 221; p. 1447.
- Cutlery, tools, and parts thereof, Certain named. Elsäskische Werkzeugfabrik Zornhoff vormals Goldenberg & Co. No. 102,834; Feb. 23; Gaz. vol. 211; p. 1260.
- Cutlery, tools, and parts thereof, Certain named. Peck, Stow & Wilcox Co. No. 107,002; Nov. 9; Gaz. vol. 220; p. 671.
- Cutting and milling machines. J. C. Backert. No. 106,139; Oct. 12; Gaz. vol. 219; p. 582.
- Cyanids. The Roessler & Hasslacher Chemical Co. No. 105,872; Aug. 24; Gaz. vol. 217; p. 1336.
- Cycles, motor-cycles, and side cars for motor-cycles. John Marston, Limited. No. 103,857; Apr. 20; Gaz. vol. 213; p. 1111.
- Cylinders, Apparatus for removing water of condensation from. O. W. Dodge. No. 101,925; Jan. 19; Gaz. vol. 210; p. 1060.
- Data-sheets. Society of Automobile Engineers. No. 103,974; Apr. 20; Gaz. vol. 213; p. 1115.
- Dates. The Hills Brothers Company. No. 106,768; Oct. 26; Gaz. vol. 219; p. 1234.
- Dental cream. G. T. Hastings. Nos. 105,461-2; July 27; Gaz. vol. 216; p. 1314.
- Dental cream, mouth-wash, &c. M. Glück. No. 103,427; Apr. 6; Gaz. vol. 213; p. 351.
- Dental engines. F. Ritter. No. 107,011; Nov. 9; Gaz. vol. 220; p. 671.
- Dental floss. M. Heminway & Sons Silk Co. No. 106,327; Oct. 19; Gaz. vol. 219; p. 921.
- Dental impression material, Powdered. A. E. Healy, D. D. S. No. 104,559; June 1; Gaz. vol. 215; p. 320.
- Dental instruments. H. E. S. Chayes. Nos. 102,045-6; Jan. 26; Gaz. vol. 210; p. 1388.
- Dental lotions and antiseptic solutions. The Eli Lilly and Company. No. 106,874; Nov. 2; Gaz. vol. 220; p. 344.
- Dental, medical, and surgical appliances, Certain named. Continental Rubber Works. No. 104,209; May 11; Gaz. vol. 214; p. 677.
- Dental, medical, and surgical appliances, Certain named. Tyler Rubber Co. No. 107,535; Dec. 7; Gaz. vol. 221; p. 347.
- Dental, medical, and surgical supplies and appliances, Certain named. United Drug Company. No. 104,357; May 25; Gaz. vol. 214; p. 1315.
- Dental paste. F. J. R. Price. No. 102,585; Feb. 16; Gaz. vol. 211; p. 952.
- Dental plaster. J. J. Poulsen. No. 105,324; July 20; Gaz. vol. 216; p. 1007.
- Dental supplies. De Trey Bros. No. 104,867; June 22; Gaz. vol. 215; p. 1258.
- Dental technicians, articulators, and articulator-holders. J. P. Harper. No. 104,724; June 15; Gaz. vol. 215; p. 972.
- Dental vulcanite. F. Osius. No. 106,995; Nov. 9; Gaz. vol. 220; p. 671.
- Dentifrice. The Wicomb Dentifrice Co. No. 105,570; Aug. 3; Gaz. vol. 217; p. 537.
- Dentifrice and antiseptic for inflamed gums, &c. H. G. Burke. No. 107,733; Dec. 28; Gaz. vol. 221; p. 1445.
- Dentifrices and antiseptic mouth-washes. The Albodon Company. No. 107,771; Dec. 28; Gaz. vol. 221; p. 1446.
- Dentifrice and tooth-cleaning compound. Lavis Chemical Company. No. 105,736; Aug. 17; Gaz. vol. 217; p. 1049.
- Dentifrice-dispensers. J. L. Mendel. No. 106,169; Oct. 12; Gaz. vol. 219; p. 583.
- Dentifrices. A. W. Knox. No. 104,734; June 15; Gaz. vol. 215; p. 972.
- Dentifrices. The Red Raven Corporation. No. 102,441; Feb. 9; Gaz. vol. 211; p. 636.
- Dentifrices. F. W. Sultan. No. 105,402; July 20; Gaz. vol. 216; p. 1010.
- Dentifrices and mouth-wash. R. G. Blackie. No. 104,198; May 11; Gaz. vol. 214; p. 677.
- Dentifrices, including dental powders, pastes, &c. F. Bosano. No. 101,827; Jan. 12; Gaz. vol. 210; p. 712.
- Dentist-plates. Jacob Petry Suction Retainer Company. No. 104,886; June 22; Gaz. vol. 215; p. 1259.
- Deodorant. The Imperial Manufacturing Company. No. 102,565; Feb. 16; Gaz. vol. 211; p. 951.
- Deodorizer and antiseptic. Republic Chemical Products Company. No. 101,977; Jan. 19; Gaz. vol. 210; p. 1061.
- Deodorizer and disinfectant. The Belleville Chemical Co. No. 106,286; Oct. 19; Gaz. vol. 219; p. 920.
- Deodorizer and external application for inflammations, Liquid antiseptic. Nith Chemical Co. No. 105,900; Aug. 24; Gaz. vol. 217; p. 1337.
- Deplatory. R. Seykota. No. 107,584; Dec. 14; Gaz. vol. 221; p. 731.
- Desks, tables, stands, cabinets, chairs, and parts thereof. The Clemetsen Company. Nos. 105,717-18; Aug. 17; Gaz. vol. 217; p. 1049.
- Digestants and medicinal preparations for dyspepsia, indigestion, &c. Bristol-Myers Company. No. 104,706; June 15; Gaz. vol. 215; p. 971.
- Digester-tankage. Union Meat Co. No. 107,112; Nov. 9; Gaz. vol. 220; p. 674.
- Dish-pans, Metal. Ammidon & Co. No. 106,137; Oct. 12; Gaz. vol. 219; p. 582.
- Dishware such as dinnerware, vases, jardinières. The Oakwood China Co. No. 102,759; Feb. 23; Gaz. vol. 211; p. 1253.
- Dish-washers. F. W. Sterling. No. 107,650; Dec. 14; Gaz. vol. 221; p. 733.
- Dishes, Dissolving-. Farbwerke-Hoechst Company. No. 107,780; Dec. 28; Gaz. vol. 221; p. 1446.
- Disinfectant. Bayway Chemical Company. No. 103,775; Apr. 13; Gaz. vol. 213; p. 743.
- Disinfectant. G. W. Galloway. No. 106,228; Oct. 19; Gaz. vol. 219; p. 918.
- Disinfectant. C. T. Hood. No. 106,103; Oct. 12; Gaz. vol. 219; p. 581.
- Disinfectant and antiseptic for certain named diseases. E. Macaluso. No. 102,290; Feb. 2; Gaz. vol. 211; p. 280.
- Disinfectant, antiseptic, and deodorant. Pasteur Laboratories of America. No. 102,866; Feb. 23; Gaz. vol. 211; p. 1261.
- Disinfectant, antiseptic, insecticide, and germicide. Border Chemical Company. No. 104,529; June 1; Gaz. vol. 215; p. 320.
- Disinfectant, Coal-tar. Alonzo K. Lynch Advance Oil Works. No. 107,183; Nov. 16; Gaz. vol. 220; p. 1036.
- Disinfectant, deodorizer, and bleaching agent. The Electro Chemical Company. No. 106,149; Oct. 12; Gaz. vol. 219; p. 583.
- Disinfectant, deodorizer, &c., Liquid. Orient Spray Co. No. 106,892; Nov. 2; Gaz. vol. 220; p. 345.
- Disinfectant, germicide, and deodorizer preparation. E. Rossmann. No. 107,480; Dec. 7; Gaz. vol. 221; p. 345.
- Disinfectant liquid. C. K. Levy. No. 105,821; Aug. 17; Gaz. vol. 217; p. 1052.
- Disinfectant purposes. H. Hague. No. 104,055; Apr. 27; Gaz. vol. 213; p. 1443.
- Disinfectant, sanaseptic, and germicide for household purposes. Thornton Sanitary Drinking Device Co. No. 104,310; May 18; Gaz. vol. 214; p. 1022.
- Disinfectants and insecticides. West Disinfecting Company. No. 104,407; May 25; Gaz. vol. 214; p. 1317.
- Disinfectants and insecticides. West Disinfecting Company. No. 105,384; July 20; Gaz. vol. 216; p. 1009.
- Disinfectants, wood-preserved, fungicides, and insecticides. Bruno Grosche & Company. No. 106,429; Oct. 19; Gaz. vol. 219; p. 924.
- Display-cases. W. F. Shaffer. No. 107,207; Nov. 16; Gaz. vol. 220; p. 1037.
- Display-fixtures, Store and window. C. H. Streett. No. 105,401; July 20; Gaz. vol. 216; p. 1010.
- Dog-biscuit. Champion Animal Food Company. No. 107,676; Dec. 21; Gaz. vol. 221; p. 1035.
- Doll-form. J. B. Rowland Manufacturing Co. No. 103,122; Mar. 16; Gaz. vol. 212; p. 1053.
- Dolls. Geo. Borgfeldt & Co. No. 105,150; July 6; Gaz. vol. 216; p. 324.
- Dolls. J. W. Dick. No. 105,044; July 6; Gaz. vol. 216; p. 321.
- Dolls. Elektra Toy & Novelty Co. No. 103,613; Apr. 6; Gaz. vol. 213; p. 357.
- Dolls. Elektra Toy & Novelty Co. No. 106,951; Nov. 9; Gaz. vol. 220; p. 670.
- Dolls. Fair & Carnival Trading Co. No. 102,966; Mar. 9; Gaz. vol. 212; p. 685.
- Dolls. German Novelty Co. Nos. 103,651-2; Apr. 13; Gaz. vol. 213; p. 739.
- Dolls. J. B. Gruelle. No. 107,328; Nov. 23; Gaz. vol. 220; p. 1367.
- Dolls. T. H. Hindle, Jr. No. 106,329; Oct. 19; Gaz. vol. 219; p. 921.
- Dolls. E. I. Horsman Co. No. 104,350; May 25; Gaz. vol. 214; p. 1315.
- Dolls. Ideal Novelty & Toy Co. No. 102,109; Jan. 26; Gaz. vol. 210; p. 1390.
- Dolls. The New Era Novelty Co. No. 106,474; Oct. 19; Gaz. vol. 219; p. 925.
- Dolls. A. C. Renwick. No. 104,887; June 22; Gaz. vol. 215; p. 1259.
- Dolls. K. Silverman. No. 107,533; Dec. 7; Gaz. vol. 221; p. 347.
- Dolls. Steinfeld Bros. No. 102,199; Jan. 26; Gaz. vol. 210; p. 1392.
- Dolls. L. Wolf & Co. No. 103,366; Mar. 30; Gaz. vol. 212; p. 1685.

Alphabetical list of trade-marks—Continued.

- Dolls and other toys made of pyroxylin compounds. Rheinische Gummi- und Celluloid-Fabrik. No. 104,499; June 1; Gaz. vol. 215; p. 319.
- Dolls and stuffed toy animals. Politzer Toy Mfg. Co. No. 104,354; May 25; Gaz. vol. 214; p. 1315.
- Dolls and toy figures. Geo. Borgfeldt & Co. No. 107,598; Dec. 14; Gaz. vol. 221; p. 731.
- Dolls and toy vehicles. The New Era Novelty Co. No. 107,365; Nov. 23; Gaz. vol. 220; p. 1368.
- Dolls and toys. George Borgfeldt & Co. No. 102,669; Feb. 23; Gaz. vol. 211; p. 1255.
- Domes, reflectors, diffusers, and bowls. W. J. Peterson. No. 104,426; May 25; Gaz. vol. 214; p. 1317.
- Door-plates, Enameled-metal. Ingram-Richardson Manufacturing Company. No. 106,233; Oct. 19; Gaz. vol. 219; p. 918.
- Doors, Revolving. Van Kannel Revolving Door Company. No. 104,078; Apr. 27; Gaz. vol. 213; p. 1443.
- Dough for pies, timbales, and tarts. E. J. Watson. No. 107,128; Nov. 9; Gaz. vol. 220; p. 675.
- Drafting instrument. F. W. Lane. No. 106,453; Oct. 19; Gaz. vol. 219; p. 925.
- Draftsman supplies, Certain named. M. C. Fuller. No. 106,760; Oct. 26; Gaz. vol. 219; p. 1233.
- Drawers, gowns, slips, and sleeping-garments. J. Binswanger. No. 105,806; Aug. 17; Gaz. vol. 217; p. 1052.
- Dress-shields. Brooklyn Shield & Rubber Co. No. 103,151; Mar. 16; Gaz. vol. 212; p. 1053.
- Dress-shields. The Omo Manufacturing Company. No. 102,156; Jan. 26; Gaz. vol. 210; p. 1391.
- Dress-shields. The Omo Manufacturing Company. No. 106,663; Oct. 26; Gaz. vol. 219; p. 1230.
- Dresses. National Cloak & Suit Company. No. 104,100; Apr. 27; Gaz. vol. 213; p. 1444.
- Dresses. Royal Mfg. Co. No. 105,966; Aug. 31; Gaz. vol. 217; p. 1658.
- Dresses. Textile Products Company. No. 104,110; Apr. 27; Gaz. vol. 213; p. 1444.
- Dresses. Textile Products Company. No. 104,237; May 11; Gaz. vol. 214; p. 678.
- Dresses and dancing-dresses, Ladies'. Woolf & Shulhof. No. 103,931; Apr. 20; Gaz. vol. 213; p. 1113.
- Dresses. Children's. Allwin Dress Company. No. 104,083; Apr. 27; Gaz. vol. 213; p. 1444.
- Dresses. Children's, juniors', and misses'. Vogue Dress Co. No. 106,918; Nov. 2; Gaz. vol. 220; p. 346.
- Dresses for women and children, House-. B. Budweiser. No. 102,735; Feb. 23; Gaz. vol. 211; p. 1257.
- Dresses, Ladies'. C. Nicolas. No. 103,623; Apr. 6; Gaz. vol. 213; p. 358.
- Dresses, Ladies'. M. & H. Rentner. No. 104,127; May 4; Gaz. vol. 214; p. 339.
- Dresses, Ladies' and misses'. The Rosegold Manufacturing Co. No. 104,156; May 4; Gaz. vol. 214; p. 340.
- Dresses, Ladies' and misses'. A. Traina & Co. No. 105,280; July 13; Gaz. vol. 216; p. 660.
- Dresses, waists, and suits, Ladies', misses', and children's. Elsemann Bros. Mfg. Co. No. 104,431; May 25; Gaz. vol. 214; p. 1317.
- Dresses, wrappers, and aprons, Women's. Sears, Roebuck and Co. No. 102,312; Feb. 2; Gaz. vol. 211; p. 281.
- Drills. Goodell-Pratt Company. No. 105,317; July 20; Gaz. vol. 216; p. 1007.
- Drills. Riverside & Dan River Cotton Mills. No. 106,680; Oct. 26; Gaz. vol. 219; p. 1231.
- Drills, Fluid-operated hammer-. Ingersoll-Rand Company. No. 105,660; Aug. 10; Gaz. vol. 217; p. 695.
- Drills, grinders, buffers, and parts thereof, Electric. The Temco Electric Motor Company. No. 103,130; Mar. 16; Gaz. vol. 212; p. 1053.
- Drills, vices, and tap-wrenches. North Bro's Mfg. Co. No. 102,435; Feb. 9; Gaz. vol. 211; p. 636.
- Drink, Composition for preparing a soft. F. C. York. No. 106,130; Oct. 12; Gaz. vol. 219; p. 582.
- Drink, Malt soft. Iroquois Brewing Company. No. 107,491; Dec. 7; Gaz. vol. 221; p. 345.
- Drink, Soft. E. Carré Company. No. 106,041; Sept. 14; Gaz. vol. 218; p. 600.
- Drinks, Soft. B. Cassaday. No. 105,715; Aug. 17; Gaz. vol. 217; p. 1049.
- Drink, Soft. L. L. Mallard. No. 107,690; Dec. 21; Gaz. vol. 221; p. 1035.
- Drinks, Non-alcoholic fruit. Canadana Brewery. No. 106,740; Oct. 26; Gaz. vol. 219; p. 1233.
- Drinks, syrup and flavoring extract for same, Soft. H. Glickman. No. 103,231; Mar. 23; Gaz. vol. 212; p. 1254.
- Drops, Stomach-. R. Simon. No. 104,486; June 1; Gaz. vol. 215; p. 318.
- Dropsy and kidney, bladder, and stomach troubles. T. Robinson. No. 105,871; Aug. 24; Gaz. vol. 217; p. 1336.
- Dry cells. National Carbon Company. No. 101,865; Jan. 12; Gaz. vol. 210; p. 713.
- Dry cells. National Carbon Company. No. 106,006; Sept. 14; Gaz. vol. 218; p. 599.
- Dye, Liquid leather-. E. J. Reilly. No. 105,489; July 27; Gaz. vol. 216; p. 1314.
- Dyes, Wm. Edge & Sons. No. 107,057; Nov. 9; Gaz. vol. 220; p. 673.
- Dyestuffs, colors, lakes, &c. W. Beckers Aniline & Chemical Works. No. 106,204; Oct. 19; Gaz. vol. 219; p. 917.
- Dynamo and motor brushes. Wire. C. E. Chapin. No. 101,915; Jan. 19; Gaz. vol. 210; p. 1059.
- Dynamos. A. W. Houchin. No. 102,103; Jan. 26; Gaz. vol. 210; p. 1390.
- Ear-phones or audiphones. Globe Ear-Phone Company. No. 106,426; Oct. 19; Gaz. vol. 219; p. 924.
- Ear-rings, Pierceless. Juergens Jewelry Company. No. 106,976; Nov. 9; Gaz. vol. 220; p. 670.
- Egg-crates. S. A. Buck. No. 106,043; Sept. 21; Gaz. vol. 218; p. 873.
- Egg-preservers. Philadelphia Quartz Company. No. 103,791; Apr. 13; Gaz. vol. 213; p. 743.
- Egg substitute. C. B. Miller. No. 106,653; Oct. 26; Gaz. vol. 219; p. 1230.
- Egg-tester. H. Niehoff. No. 102,578; Feb. 16; Gaz. vol. 211; p. 951.
- Egg-testers, Electric. H. J. Ferer. No. 104,936; June 29; Gaz. vol. 215; p. 1493.
- Eggs. Dallas County Community Clubs. No. 106,944; Nov. 9; Gaz. vol. 220; p. 669.
- Eggs. A. Grossenbach Co. Nos. 106,598-9; Oct. 26; Gaz. vol. 219; pp. 1228-9.
- Eggs. Harmony Creamery Company. No. 103,265; Mar. 23; Gaz. vol. 212; p. 1355.
- Eggs. Old Dutch Market. No. 106,484; Oct. 19; Gaz. vol. 219; p. 926.
- Eggs. Yesterlaid Egg Farms Company. No. 104,065; Apr. 27; Gaz. vol. 213; p. 1443.
- Electric alarms, batteries, bells, boxes, cables, &c. Frank H. Stewart Electric Co. No. 104,270; May 11; Gaz. vol. 214; p. 679.
- Electric apparatus and utensils, Certain named. Prometheus Fabrik elektrischer Koch- & Heizapparate Gesellschaft mit beschränkter Haftung. No. 102,341; Feb. 9; Gaz. vol. 211; p. 633.
- Electric batteries, Dry-cell. National Carbon Company. No. 102,147; Jan. 26; Gaz. vol. 210; p. 1391.
- Electric-conduit pipe. Central Tube Company. No. 106,297; Oct. 19; Gaz. vol. 219; p. 920.
- Electric conduits, Non-metallic flexible. American Circular Loom Co. No. 102,241; Feb. 2; Gaz. vol. 211; p. 279.
- Electric extension-conductors. Inland Electric Co. No. 104,921; June 22; Gaz. vol. 215; p. 1260.
- Electric generators. H. E. Elrod. No. 104,168; May 4; Gaz. vol. 214; p. 340.
- Electric-light fixtures. G. A. Harter. No. 106,001; Sept. 14; Gaz. vol. 218; p. 599.
- Electric-light fixtures. Luminous Unit Company. No. 106,074; Oct. 5; Gaz. vol. 219; p. 267.
- Electric-light fixtures. St. Louis Brass Manufacturing Company. No. 107,103; Nov. 9; Gaz. vol. 220; p. 674.
- Electric-light fixtures. Westinghouse Electric & Manufacturing Company. No. 105,519; Aug. 3; Gaz. vol. 217; p. 335.
- Electric lights, Incandescent. Central Telephone & Electric Company. No. 102,935; Mar. 2; Gaz. vol. 212; p. 324.
- Electric-lighting apparatus, dimmers for electric-light fixtures. Wirt Company. No. 104,554; June 1; Gaz. vol. 215; p. 320.
- Electric-lighting fixtures. Frank Adam Electric Co. No. 107,040; Nov. 9; Gaz. vol. 220; p. 672.
- Electric-lighting fixtures. B. F. Klein. No. 107,475; Dec. 7; Gaz. vol. 221; p. 345.
- Electric-lighting plants, Individual. K. and W. Engineering Company. No. 106,621; Oct. 26; Gaz. vol. 219; p. 1229.
- Electric-lighting units. M. E. Trimble. No. 102,209; Jan. 26; Gaz. vol. 210; p. 1393.
- Electric machines, Dynamo-. General Electric Company. No. 105,160; July 6; Gaz. vol. 216; p. 324.
- Electric-resistor materials. Hoskins Manufacturing Company. No. 102,839; Feb. 23; Gaz. vol. 211; p. 1260.
- Electric spot, butt, and seam welders. Detroit Electric Welder Company. No. 104,089; Apr. 27; Gaz. vol. 213; p. 1444.
- Electric vaporizer. C. C. Gould. No. 106,764; Oct. 26; Gaz. vol. 219; p. 1233.
- Electric wires, Insulated. Detroit Insulated Wire Company. Nos. 105,254-5; July 13; Gaz. vol. 216; p. 659.
- Electrical and galvanic carbons. C. Conradty. No. 104,532; June 1; Gaz. vol. 215; p. 320.
- Electrical and galvanic carbons. Firm of C. Conradty. Nos. 104,793-4; June 15; Gaz. vol. 215; p. 974.
- Electrical apparatus and supplies. Detroit Stove Works. No. 105,528; Aug. 3; Gaz. vol. 217; p. 335.
- Electrical apparatus and supplies, Certain named. Briggs & Stratton Co. No. 102,033; Jan. 26; Gaz. vol. 210; p. 1388.
- Electrical apparatus and supplies, Certain named. Drew Electric and Manufacturing Company. No. 105,810; Aug. 17; Gaz. vol. 217; p. 1052.
- Electrical apparatus and supplies, Certain named. The Electric Controller and Manufacturing Company. No. 104,714; June 15; Gaz. vol. 215; p. 971.
- Electrical apparatus and supplies, Certain named. The Fairmount Electric and Manufacturing Company. No. 101,928; Jan. 19; Gaz. vol. 210; p. 1060.
- Electrical apparatus and supplies, Certain named. General Devices & Fittings Co. No. 103,058; Mar. 16; Gaz. vol. 212; p. 1051.

- Electrical apparatus and supplies, Certain named. H. T. Paiste Company. No. 105,223; July 13; Gaz. vol. 216; p. 658.
- Electrical apparatus and supplies, Certain named. Splitdorf Electrical Company. No. 106,913; Nov. 2; Gaz. vol. 220; p. 345.
- Electrical apparatus and supplies, Certain named. Victor Electric Company. No. 105,091; July 6; Gaz. vol. 216; p. 322.
- Electrical apparatus and supplies, Certain named. Western Electric Company. No. 102,479; Feb. 9; Gaz. vol. 211; p. 637.
- Electrical apparatus, machines, and supplies, Certain named. Suburban Lighting Co. No. 107,214; Nov. 16; Gaz. vol. 220; p. 1037.
- Electrical apparatus, parts thereof, and supplies, Certain named. Fire Alarm Signal Company. No. 105,112; July 6; Gaz. vol. 216; p. 323.
- Electrical calling, fire-alarm, and signaling systems, &c. American Model & Instrument Company. No. 105,773; Aug. 17; Gaz. vol. 217; p. 1051.
- Electrical conduit-fittings. J. T. Burns. No. 105,153; July 6; Gaz. vol. 216; p. 324.
- Electrical-conduit fittings. Killark Electric Manufacturing Co. No. 104,618; June 8; Gaz. vol. 215; p. 662.
- Electrical conduits. The National Enameling & Manufacturing Company. No. 103,670; Apr. 13; Gaz. vol. 213; p. 740.
- Electrical conduits, Non-metallic flexible. Alphaduct Company. No. 103,636; Apr. 13; Gaz. vol. 213; p. 739.
- Electrical fittings and parts thereof, Certain named. The Arrow Electric Company. No. 106,282; Oct. 19; Gaz. vol. 219; p. 919.
- Electrical lighting means for motion-picture and other auditoriums. Shado-Lite Manufacturing Company. No. 104,516; June 1; Gaz. vol. 215; p. 319.
- Electrical supplies, Certain named. Western Utilities Company. No. 107,460; Nov. 30; Gaz. vol. 220; p. 1715.
- Electrical switches. The Perkins Electric Switch Mfg. Company. No. 106,672; Oct. 26; Gaz. vol. 219; p. 1231.
- Electrical testing and inspecting instruments. W. N. Matthews & Bro. No. 106,650; Oct. 26; Gaz. vol. 219; p. 1230.
- Electrical wires and cables, Rubber-covered. The Electric Cable Company. No. 104,214; May 11; Gaz. vol. 214; p. 677.
- Electrical work, Glass globes and bowls employed in. The General Electric Co. No. 106,761; Oct. 26; Gaz. vol. 219; p. 1233.
- Electricity to the body. Devices for applying. Victor Electric Company. No. 107,403; Nov. 23; Gaz. vol. 220; p. 1370.
- Elevators, escalators, gravity spiral conveyers, &c. Otis Elevator Company. No. 107,369; Nov. 23; Gaz. vol. 220; p. 1369.
- Embossing-machines. The Daylock Corporation. No. 105,315; July 20; Gaz. vol. 216; p. 1007.
- Embroidered initials, monograms, and designs. Manhattan Embroidery Company. No. 107,448; Nov. 30; Gaz. vol. 220; p. 1715.
- Embroidery-patterns. Ideal Art Needlework Company. No. 107,785; Dec. 28; Gaz. vol. 221; p. 1446.
- Embroidery outfits. Fishel & Gorman. No. 103,345; Mar. 30; Gaz. vol. 212; p. 1685.
- Embroidery silk and twist. The Brainerd and Armstrong Company. No. 103,554; Apr. 6; Gaz. vol. 213; p. 355.
- Emulsifier. Diamond Chemical Co. No. 101,672; Jan. 5; Gaz. vol. 210; p. 394.
- Emulsion. Pure-olive-oil. M.-L. P. Bouchet. Nos. 102,598-9; Feb. 16; Gaz. vol. 211; p. 952.
- Enamel. The A. Wilhelm Company. No. 103,307; Mar. 30; Gaz. vol. 212; p. 1684.
- Enamel, polish, naste, bleach, pomade, and tints for the finger-nails. Geo. Borgfeldt & Co. No. 102,672; Feb. 23; Gaz. vol. 211; p. 1255.
- Enamel, steel, and tin ware. Lalance & Grosjean Mfg. Co. No. 105,544; Aug. 3; Gaz. vol. 217; p. 336.
- Enamel, steel, and tin ware. Lalance & Grosjean Mfg. Co. No. 106,111; Oct. 12; Gaz. vol. 219; p. 581.
- Enamels. The Patterson-Sargent Company. No. 103,204; Mar. 23; Gaz. vol. 212; p. 1353.
- Enameled and aluminum ware. The New England Enameling Company. No. 106,792; Oct. 26; Gaz. vol. 219; p. 1234.
- Enameled metal ware. Shapleigh Hardware Company. No. 105,326; July 20; Gaz. vol. 216; p. 1007.
- Engine cylinders, Carbon-remover for internal-combustion. Cortland Auto Supply Co. No. 107,055; Nov. 9; Gaz. vol. 220; p. 673.
- Engine-starters other than electrical. The Standard Starter & Specialty Company. No. 107,564; Dec. 7; Gaz. vol. 221; p. 348.
- Engine, Steam-. J. A. Parsons. No. 102,159; Jan. 26; Gaz. vol. 210; p. 1391.
- Engines and parts thereof, Automobile and gasoline. National Motor Vehicle Co. No. 103,621; Apr. 6; Gaz. vol. 213; p. 357.
- Engines and parts thereof, Four-cycle stationary. International Harvester Corporation. No. 104,389; May 25; Gaz. vol. 214; p. 1316.
- Engines, Gas-. Portable Power Manufacturing Co. No. 107,817; Dec. 28; Gaz. vol. 221; p. 1447.
- Engines, Gas traction-. Minneapolis Steel & Machinery Company. No. 103,620; Apr. 6; Gaz. vol. 213; p. 357.
- Engines, Gas traction-. Phoenix Manufacturing Co. No. 105,699; Aug. 10; Gaz. vol. 217; p. 696.
- Engines, Internal-combustion. Hendee Manufacturing Company. Nos. 103,727-8; Apr. 13; Gaz. vol. 213; p. 742.
- Engines, Liquid carbon-remover for internal-combustion. Clover Manufacturing Company. No. 105,494; July 27; Gaz. vol. 216; p. 1315.
- Engines, Liquid-fuel feed-receptacles for internal-combustion. Stewart-Warner Speedometer Corporation. No. 102,697; Feb. 23; Gaz. vol. 211; p. 1256.
- Engines, pumps, and hoists. Gasolene and kerosene. Jäger Engine Company. No. 102,111; Jan. 26; Gaz. vol. 210; p. 1390.
- Engines, Traction-. Bull Tractor Co. No. 104,593; June 8; Gaz. vol. 215; p. 661.
- Engines, Traction-. The Holt Manufacturing Company. No. 107,069; Nov. 9; Gaz. vol. 220; p. 673.
- Engines, Traction-. The Holt Manufacturing Company. No. 107,260; Nov. 16; Gaz. vol. 220; p. 1039.
- Envelop-sealing machines. Red Square Co. No. 105,673; Aug. 10; Gaz. vol. 217; p. 696.
- Envelop-sealing machines. United Sealing Machine Company. No. 104,185; May 4; Gaz. vol. 214; p. 341.
- Envelops. Security Envelope Co. No. 102,189; Jan. 26; Gaz. vol. 210; p. 1392.
- Envelops. Taylor-Logan Co. Papermakers. No. 102,884; Feb. 23; Gaz. vol. 211; p. 1261.
- Envelops and note-paper. H. Davidson. No. 105,043; July 6; Gaz. vol. 216; p. 321.
- Envelops, letter and bill heads, blank books. Gaw-O'Hara Envelope Company. No. 102,709; Feb. 23; Gaz. vol. 211; p. 1256.
- Envelops with perforated attached stub, Loose-leaf. Hyman & Oppenheim. No. 107,708; Dec. 21; Gaz. vol. 221; p. 1036.
- Enzymes. National Enzyme Co. Nos. 106,354-6; Oct. 19; Gaz. vol. 219; p. 922.
- Escutcheon-pins, curtain-rods, plumbers', safety, &c., chains. The Turner & Seymour Manufacturing Co. No. 102,466; Feb. 9; Gaz. vol. 211; p. 637.
- Exercising-machine. O. E. Boone. No. 102,031; Jan. 26; Gaz. vol. 210; p. 1387.
- Expectorant, Vegetable. H. A. Ingham & Co. No. 105,412; July 20; Gaz. vol. 216; p. 1010.
- Explosives, Certain named. Norsk Hydro-Elektrisk Kvaestofaktieselskab. No. 102,337; Feb. 9; Gaz. vol. 211; p. 633.
- Explosives, Permissive. Burton Powder Company. No. 104,441; June 1; Gaz. vol. 215; p. 317.
- Explosives, priming materials, matches, &c. Kabelwerk Duisburg Aktien-Gesellschaft. No. 103,784; Apr. 13; Gaz. vol. 213; p. 743.
- Extract, Vegetable. J. W. Beardsley's Sons. No. 102,732; Feb. 23; Gaz. vol. 211; p. 1257.
- Eye-protectors, goggles, and spectacles. Sussfeld, Lorsch & Co. No. 101,654; Jan. 5; Gaz. vol. 210; p. 394.
- Eye-protectors, goggles, and spectacles. Sussfeld, Lorsch & Co. No. 102,204; Jan. 26; Gaz. vol. 210; p. 1393.
- Eye shades and shields. F. A. Hardy & Co. No. 104,612; June 8; Gaz. vol. 215; p. 661.
- Eye-water. W. L. Jerkins. No. 105,817; Aug. 17; Gaz. vol. 217; p. 1052.
- Eyeglasses. Emil Busch, Aktiengesellschaft Optische Industrie. No. 105,313; July 20; Gaz. vol. 216; p. 1007.
- Eyeglasses, spectacles, lenses, &c. F. H. Kahn. No. 106,865; Nov. 2; Gaz. vol. 220; p. 344.
- Eyelets, Metal. Ideal Specialties Mfg Corp. No. 106,772; Oct. 26; Gaz. vol. 219; p. 1234.
- Eyeletting-machines. Ideal Specialties Mfg. Corp. No. 106,156; Oct. 12; Gaz. vol. 219; p. 583.
- Fabrics, Certain named textile. The Esmond Mills. No. 103,614; Apr. 6; Gaz. vol. 213; p. 357.
- Fabrics in the form of piece goods, Worsted. Arlington Mills. No. 106,827; Nov. 2; Gaz. vol. 220; p. 343.
- Fancy goods and notions. H. Ramsay. No. 107,096; Nov. 9; Gaz. vol. 220; p. 674.
- Fancy goods and notions, Certain named. International Mfg. Agency. No. 106,335; Oct. 19; Gaz. vol. 219; p. 921.
- Fancy goods, furnishings, and notions, Certain named. Campbell, Metzger & Jacobson. No. 106,296; Oct. 19; Gaz. vol. 219; p. 920.
- Fans and parts. Unitary fluid-pressure-motor-driven. W. J. H. Strong. Nos. 107,107-8; Nov. 9; Gaz. vol. 220; p. 674.
- Fans and parts thereof, Unitary fluid-pressure-motor-driven. W. J. H. Strong. No. 105,906; Aug. 24; Gaz. vol. 217; p. 1337.
- Fans, Electric. The Mysto Mfg. Co. No. 105,520; Aug. 3; Gaz. vol. 217; p. 335.
- Fans, Electric. J. J. O'Toole. No. 105,802; Aug. 17; Gaz. vol. 217; p. 1051.
- Fans, Hot-air-driven. Al-Cool Fan Company. No. 107,437; Nov. 30; Gaz. vol. 220; p. 1715.
- Fasteners, Snap-. Berg Bros. No. 107,773; Dec. 28; Gaz. vol. 221; p. 1446.

Alphabetical list of trade-marks—Continued.

- Fats for shortening, Combination of animal. The Capitol Refining Company. Nos. 102,557-8; Feb. 16; Gaz. vol. 211; p. 951.
- Fats, Vegetable. Berlin Mills Company. No. 105,415; July 20; Gaz. vol. 216; p. 1010.
- Feather trimmings. Stein & Coley. No. 105,619; Gaz. vol. 217; p. 694.
- Featherbone. Castlebone Company. No. 106,835; Nov. 2; Gaz. vol. 220; p. 343.
- Feed, Animal. Edwards & Loomis Co. No. 102,383; Feb. 9; Gaz. vol. 211; p. 634.
- Feed, Bird and poultry. Edwards & Loomis Co. No. 102,331; Feb. 9; Gaz. vol. 211; p. 633.
- Feed, Chick. Loveland & Sons. No. 105,856; Aug. 24; Gaz. vol. 217; p. 1335.
- Feed, Chick. Wm. Pollock Milling & Elevator Co. No. 107,194; Nov. 16; Gaz. vol. 220; p. 1037.
- Feed containing molasses and alfalfa, Mixed. H. M. Hobbie Grocery Company. No. 107,613; Dec. 14; Gaz. vol. 221; p. 732.
- Feed, Dairy. Ralston Purina Company. No. 102,843; Feb. 23; Gaz. vol. 211; p. 1260.
- Feed for cattle. Prepared mixed. J. J. Badenoch Co. No. 107,307; Nov. 23; Gaz. vol. 220; p. 1367.
- Feed for dairy-cattle, Mixed. The Larrowe Milling Co. No. 103,903; Apr. 20; Gaz. vol. 213; p. 1112.
- Feed for horses, Mixed. J. J. Badenoch Co. No. 107,043; Nov. 9; Gaz. vol. 220; p. 672.
- Feed for live stock. Golden Grain Milling Company. No. 101,734; Jan. 12; Gaz. vol. 210; p. 709.
- Feed for live stock, Mixed. International Sugar Feed No. Two Co. Nos. 104,328-9; May 18; Gaz. vol. 214; p. 1022.
- Feed, Horse and mule, dairy, chicken, &c. Ralston Purina Company. No. 102,844; Feb. 23; Gaz. vol. 211; p. 1260.
- Feed, Live-stock. M. C. Peters Mill Co. No. 107,192; Nov. 16; Gaz. vol. 220; p. 1036.
- Feed, Mule. M. C. Peters Mill Co. No. 107,191; Nov. 16; Gaz. vol. 220; p. 1036.
- Feed, Poultry. The Albert Dickinson Company. No. 105,293; July 13; Gaz. vol. 216; p. 660.
- Feed, Poultry. Edwards & Loomis Co. No. 102,330; Feb. 9; Gaz. vol. 211; p. 633.
- Feed, Stock. American Hominy Company. No. 105,245; July 13; Gaz. vol. 216; p. 659.
- Feed, Stock. Sugar Land Feed Company. No. 102,772; Feb. 23; Gaz. vol. 211; p. 1258.
- Feed, Stock and poultry. The Akron Feed and Milling Company. No. 102,006; Jan. 26; Gaz. vol. 210; p. 1387.
- Feed, Stock, dairy-animal, and poultry. Ralston Purina Company. No. 104,915; June 22; Gaz. vol. 215; p. 1259.
- Feeds for horses, cattle, &c., Mixed. Chapin & Company. No. 107,603; Dec. 14; Gaz. vol. 221; p. 732.
- Feeds for horses, cattle, &c., Mixed. Chapin & Company. No. 107,838; Dec. 28; Gaz. vol. 221; p. 1448.
- Feeds, Poultry. Edwards & Loomis Co. No. 105,721; Aug. 17; Gaz. vol. 217; p. 1049.
- Feeds, Scratch, baby-chick, and mash horse. Ritter-Hennings Co. No. 107,859; Dec. 28; Gaz. vol. 221; p. 1449.
- Felts, Paper-making. F. C. Huyck & Sons. No. 107,723; Dec. 21; Gaz. vol. 221; p. 1036.
- Felts, Paper-making. F. C. Huyck & Sons. No. 107,742; Dec. 28; Gaz. vol. 221; p. 1445.
- Felts, Prepared or treated. A. Dubiez. No. 101,701; Jan. 5; Gaz. vol. 210; p. 395.
- Fence-post caps, Metal. J. Eisenmenger. No. 106,950; Nov. 9; Gaz. vol. 220; p. 670.
- Fencing, gates, and fence-posts, Metal. Dwiggin's Wire Fence Company. No. 104,381; May 25; Gaz. vol. 214; p. 1316.
- Ferric sulfate. The Westmoreland Chemical and Color Corporation. Nos. 102,990-1; Mar. 9; Gaz. vol. 212; p. 686.
- Ferris wheels, amusement riding devices, &c. Elh Bridge Company. No. 107,149; Nov. 16; Gaz. vol. 220; p. 1035.
- Fertilizer. American Agricultural Chemical Co. Nos. 101,820-1; Jan. 12; Gaz. vol. 210; p. 712.
- Fertilizer. American Agricultural Chemical Co. Nos. 102,009-10; Jan. 26; Gaz. vol. 210; p. 1387.
- Fertilizer. American Agricultural Chemical Co. No. 102,645; Feb. 16; Gaz. vol. 211; p. 953.
- Fertilizer. American Agricultural Chemical Co. No. 102,778; Feb. 23; Gaz. vol. 211; p. 1258.
- Fertilizer. American Agricultural Chemical Co. No. 104,370; May 25; Gaz. vol. 214; p. 1315.
- Fertilizer. American Agricultural Chemical Co. No. 105,709; Aug. 17; Gaz. vol. 217; p. 1049.
- Fertilizer. J. N. Billingsley. No. 107,145; Nov. 16; Gaz. vol. 220; p. 1035.
- Fertilizer. The Cumberland Fertilizer Co. No. 103,808; Arr. 13; Gaz. vol. 213; p. 744.
- Fertilizer, Decatur Fertilizer Co. No. 102,512; Feb. 9; Gaz. vol. 211; p. 638.
- Fertilizer. T. I. Fuls. No. 106,324; Oct. 19; Gaz. vol. 219; p. 921.
- Fertilizer, Mt. Pleasant Fertilizer Company. No. 102,144; Jan. 26; Gaz. vol. 210; p. 1391.
- Fertilizer. Pafapsoo Guano Co. No. 102,162; Jan. 26; Gaz. vol. 210; p. 1391.
- Fertilizer. Piedmont-Mt. Airy Guano Co. No. 102,169; Jan. 26; Gaz. vol. 210; p. 1392.
- Fertilizer. C. Teerling. No. 106,265; Oct. 19; Gaz. vol. 219; p. 919.
- Fertilizer. Union Meat Co. Nos. 107,400-1; Nov. 23; Gaz. vol. 220; pp. 1369-70.
- Fertilizer. W. E. Whann Company. No. 104,661; June 8; Gaz. vol. 215; p. 663.
- Fertilizer materials. T. Suzuki. No. 103,301; Mar. 30; Gaz. vol. 212; p. 1684.
- Fertilizers. Alexandria Fertilizer & Chemical Co. No. 106,278; Oct. 19; Gaz. vol. 219; p. 919.
- Fertilizers. American Agricultural Chemical Co. No. 102,008; Jan. 26; Gaz. vol. 210; p. 1387.
- Fertilizers. American Agricultural Chemical Co. Nos. 102,484-5; Feb. 9; Gaz. vol. 211; p. 637.
- Fertilizers. American Agricultural Chemical Co. Nos. 102,553-4; Feb. 16; Gaz. vol. 211; p. 951.
- Fertilizers. American Agricultural Chemical Co. No. 103,214; Mar. 23; Gaz. vol. 212; p. 1353.
- Fertilizers. American Agricultural Chemical Company. No. 103,743; Apr. 13; Gaz. vol. 213; p. 742.
- Fertilizers. American Agricultural Chemical Co. No. 104,312; May 18; Gaz. vol. 214; p. 1022.
- Fertilizers. American Agricultural Chemical Co. No. 104,433; June 1; Gaz. vol. 215; p. 317.
- Fertilizers. American Agricultural Chemical Co. No. 105,178; July 13; Gaz. vol. 216; p. 657.
- Fertilizers. The Atlantic Chemical Corporation. No. 102,729; Feb. 23; Gaz. vol. 211; p. 1257.
- Fertilizers. The Atlantic Chemical Corporation. Nos. 105,095-6; July 6; Gaz. vol. 216; p. 322.
- Fertilizers. The Atlantic Chemical Corporation. Nos. 107,231-3; Nov. 16; Gaz. vol. 220; p. 1038.
- Fertilizers. Bowker Fertilizer Co. No. 103,372; Mar. 30; Gaz. vol. 212; p. 1686.
- Fertilizers. Bowker Fertilizer Co. No. 105,183; July 13; Gaz. vol. 216; p. 657.
- Fertilizers. Columbia Guano Co. No. 102,375; Feb. 9; Gaz. vol. 211; p. 634.
- Fertilizers. Columbia Guano Co. No. 103,199; Mar. 23; Gaz. vol. 212; p. 1353.
- Fertilizers. Columbia Guano Company. No. 104,321; May 18; Gaz. vol. 214; p. 1022.
- Fertilizers. Columbia Guano Co. Nos. 105,102-5; July 6; Gaz. vol. 216; p. 323.
- Fertilizers. Columbia Guano Co. Nos. 107,241-3; Nov. 16; Gaz. vol. 220; p. 1038.
- Fertilizers. The Hubbard Fertilizer Company. Nos. 102,606-11; Feb. 16; Gaz. vol. 211; p. 952.
- Fertilizers. G. Kirkegaard. No. 106,450; Oct. 19; Gaz. vol. 219; p. 925.
- Fertilizers. Nitrate Agencies Company. No. 101,971; Jan. 19; Gaz. vol. 210; p. 1061.
- Fertilizers. Old Buck Guano Co. No. 106,174; Oct. 12; Gaz. vol. 219; p. 583.
- Fertilizers. The Pulverized Manure Co. No. 107,503; Dec. 7; Gaz. vol. 221; p. 346.
- Fertilizers. F. S. Royster Guano Co. No. 101,793; Jan. 12; Gaz. vol. 210; p. 711.
- Fertilizers. F. S. Royster Guano Co. Nos. 102,445-8; Feb. 9; Gaz. vol. 211; p. 636.
- Fertilizers. F. S. Royster Guano Co. No. 103,966; Apr. 20; Gaz. vol. 213; p. 1114.
- Fertilizers. F. S. Royster Guano Co. Nos. 105,124-40; July 6; Gaz. vol. 216; pp. 323-4.
- Fertilizers. F. S. Royster Guano Co. Nos. 107,286-8; Nov. 16; Gaz. vol. 220; p. 1039.
- Fertilizers. F. S. Royster Guano Co. Nos. 107,378-83; Nov. 23; Gaz. vol. 220; p. 1369.
- Fertilizers. R. A. Wooldridge Company. No. 104,663; June 8; Gaz. vol. 215; p. 663.
- Fertilizers. The Robert A. Wooldridge Company. No. 102,322; Feb. 2; Gaz. vol. 211; p. 281.
- Fertilizers. The Robert A. Wooldridge Company. No. 105,885; Aug. 24; Gaz. vol. 217; p. 1336.
- Fertilizers. The Robert A. Wooldridge Co. No. 106,721; Oct. 26; Gaz. vol. 219; p. 1232.
- Fertilizers, Ground-bone. American Agricultural Chemical Co. No. 105,710; Aug. 17; Gaz. vol. 217; p. 1049.
- Fiber sheets, rods, tubes, and disks. Diamond State Fibre Co. No. 103,419; Apr. 6; Gaz. vol. 213; p. 351.
- Fichus, laces, chiffons, silks, &c., Ladies'. Timothy F. Crowley, Incorporated. No. 103,944; Apr. 20; Gaz. vol. 213; p. 1114.
- Fig preserves. Bishop & Company. No. 102,325; Feb. 9; Gaz. vol. 211; p. 633.
- Figs. The Hills Brothers Company. No. 104,536; June 1; Gaz. vol. 215; p. 320.
- Figs and dates. The Hills Brothers Company. No. 104,537; June 1; Gaz. vol. 215; p. 320.
- Figs and dates. The Hills Brothers Company. No. 105,354; July 20; Gaz. vol. 216; p. 1008.
- Figs and raisins. T. J. Hammond. Nos. 107,330-1; Nov. 23; Gaz. vol. 220; p. 1367.
- Figs, Preserved. Adam Bros. & Sellers Fig Co. Nos. 104,691-2; June 15; Gaz. vol. 215; p. 971.
- Figures, trays, &c., Arts and crafts wooden. F. H. Babcock. No. 106,544; Oct. 26; Gaz. vol. 219; p. 1227.
- Files. Henry Disston & Sons. No. 102,070; Jan. 26; Gaz. vol. 210; p. 1389.

- Files, Henry Disston & Sons. No. 102,263; Feb. 2; Gaz. vol. 211; p. 279.
- Files, Tacony File and Hardware Company. No. 103,211; Mar. 23; Gaz. vol. 212; p. 1353.
- Files, Corn-. N. E. Sibley. No. 105,701; Aug. 10; Gaz. vol. 217; p. 697.
- Files, Nail-. A. F. Girndt. No. 105,161; July 6; Gaz. vol. 216; p. 324.
- Files, rasps, saws, augers, &c. G. Corts, Gesellschaft mit beschränkter Haftung. No. 103,724; Apr. 13; Gaz. vol. 213; p. 741.
- Films, photographs, and cinematographic and photographic machines. Photo-Drama Producing Co. Società in Accomandita Semplice Uno Dei Soci Gerenti. No. 102,636; Feb. 16; Gaz. vol. 211; p. 953.
- Filter-cloths for presses. F. T. Parker. No. 105,224; July 13; Gaz. vol. 216; p. 658.
- Filters for household-faucets and candy-show-case refrigerators, Water-. United Drug Company. No. 105,830; Aug. 17; Gaz. vol. 217; p. 1052.
- Filters, water-coolers, and refrigerators. Centadriak Filters Co. No. 107,543; Dec. 7; Gaz. vol. 221; p. 347.
- Fire-extinguisher compound. Redwood Chemical Co. No. 105,078; July 6; Gaz. vol. 216; p. 322.
- Fire-extinguishers. Hansen-Nieter Safety Co. No. 107,333; Nov. 23; Gaz. vol. 220; p. 1368.
- Fire-extinguishers. Justrite Manufacturing Company. No. 103,953; Apr. 20; Gaz. vol. 213; p. 1114.
- Fire-extinguishing compositions and ingredients. MacAndrews and Forbes Company. No. 103,786; Apr. 13; Gaz. vol. 213; p. 743.
- Fireproofing fabrics. Compound for. W. B. Price. No. 102,303; Feb. 2; Gaz. vol. 211; p. 280.
- Fireproofing materials. Chemical compound for. L. L. Wolf. No. 107,223; Nov. 16; Gaz. vol. 220; p. 1037.
- Fireworks. Consolidated Fireworks Company of America. No. 104,932; June 29; Gaz. vol. 215; p. 1493.
- Fireworks. E. H. Wagner. No. 104,494; June 1; Gaz. vol. 215; p. 318.
- First-aid or emergency cases. J. A. Moran. No. 105,071; July 6; Gaz. vol. 216; p. 322.
- Fish. J. Frye & Co. No. 105,261; July 13; Gaz. vol. 216; p. 659.
- Fish, canned sardines, anchovies, and kippered herring. Preserved and pickled. C. L. Benson. No. 106,396; Oct. 19; Gaz. vol. 219; p. 923.
- Fish, cervical and salame sausage, Smoked. Richard Schnibbe, Inc. No. 104,954; June 29; Gaz. vol. 215; p. 1494.
- Fish, Cured. The Meyer & Thompson Co. No. 104,259; May 11; Gaz. vol. 214; p. 679.
- Fish, Fresh, salted, pickled, and canned. Davis Bros. No. 107,250; Nov. 16; Gaz. vol. 220; p. 1038.
- Fish, Fresh, salted, smoked, &c. Davis Bros. No. 105,190; July 13; Gaz. vol. 216; p. 657.
- Fish, Fresh, smoked, and cured. Story-Simmons Co. No. 103,039; Mar. 16; Gaz. vol. 212; p. 1050.
- Fish-hooks and fishing-tackle. Robert Ogilvy Co. Nos. 103,672-3; Apr. 13; Gaz. vol. 213; p. 740.
- Fish-hooks, fishing-lines, stuffed toy figures, &c. United Drug Company. No. 104,657; June 8; Gaz. vol. 215; p. 663.
- Fish, Preserved. Stavanger Preserving Co. a/s. No. 103,976; Apr. 20; Gaz. vol. 213; p. 1115.
- Fish, Preserved and canned. Strohmeyer & Arpe Company. No. 106,521; Oct. 19; Gaz. vol. 219; p. 927.
- Fish-scraps. International Glue Company. No. 105,357; July 20; Gaz. vol. 216; p. 1008.
- Fishing-bait, Artificial. The Moonlight Bait Co. No. 101,965; Jan. 19; Gaz. vol. 210; p. 1061.
- Fishing-tackle. Wm. Frankfurth Hardware Co. No. 106,592; Oct. 26; Gaz. vol. 219; p. 1228.
- Flags. W. J. Heller. No. 103,854; Apr. 20; Gaz. vol. 213; p. 1111.
- Flags, Manufactured. Annin & Co. No. 104,313; May 18; Gaz. vol. 214; p. 1022.
- Flags, Manufactured. Annin & Co. No. 105,775; Aug. 17; Gaz. vol. 217; p. 1051.
- Flags, Manufactured. Annin & Co. No. 106,088; Oct. 12; Gaz. vol. 219; p. 581.
- Flat-ware, tableware, hollow ware, &c. The Mount Vernon Company—Silversmiths. No. 104,948; June 29; Gaz. vol. 215; p. 1493.
- Flavor and certain named beverages, Concentrated "pure fruit." I. McEwen. No. 103,067; Mar. 16; Gaz. vol. 212; p. 1051.
- Flavor, Food-. The Roland Co. No. 106,018; Sept. 14; Gaz. vol. 218; p. 599.
- Flavor of butter to certain products, Compound for imparting. T. A. Faulds. No. 105,013; June 29; Gaz. vol. 215; p. 1495.
- Flavoring compound, Vanilla. J. B. Bernbrock. No. 104,347; May 25; Gaz. vol. 214; p. 1315.
- Flavoring compounds for foods. L. F. Bragger. No. 102,934; Mar. 2; Gaz. vol. 212; p. 324.
- Flavoring extract for food. B. E. Sellers. No. 107,640; Dec. 14; Gaz. vol. 221; p. 733.
- Flavoring extracts. F. E. Barr. No. 103,845; Apr. 20; Gaz. vol. 213; p. 1111.
- Flavoring extracts. W. J. Bush & Co. No. 101,911; Jan. 19; Gaz. vol. 210; p. 1059.
- Flavoring extracts. H. Kohnstamm & Co. No. 103,856; Apr. 20; Gaz. vol. 213; p. 1111.
- Flavoring extracts. The Newton Tea & Spice Co. No. 106,066; Sept. 28; Gaz. vol. 218; p. 1153.
- Flavoring extracts. P. M. Watkins. No. 105,446; July 6; Gaz. vol. 216; p. 324.
- Flavoring extracts and jelly-powder. Price Flavoring Extract Company. No. 105,274; July 13; Gaz. vol. 216; p. 660.
- Flavoring extracts and spices. Co-operative Drug Manufacturing Company, now by change of name American Drug Mfg. Co. Nos. 104,597-8; June 8; Gaz. vol. 215; p. 661.
- Flavoring extracts for foods. H. Kohnstamm & Co. Nos. 103,818; Apr. 13; Gaz. vol. 213; p. 744.
- Flavoring extracts, Preparation for the reduction and emulsification of essential oils for manufacturing. M. Offenbergh. No. 101,791; Jan. 12; Gaz. vol. 210; p. 711.
- Flavoring, &c., powder, paste, or tablet. Nutritive. Schiefelin & Company. No. 102,186; Jan. 26; Gaz. vol. 210; p. 1392.
- Flavoring sauces. D. M. Miers. No. 105,604; Aug. 10; Gaz. vol. 217; p. 694.
- Flesh-reducer. M. S. C. V. Lyle. No. 106,052; Sept. 21; Gaz. vol. 218; p. 873.
- Flies, Supports for carrying artificial. F. W. Klinger and Langbein Company. No. 105,359; July 20; Gaz. vol. 216; p. 1008.
- Fly-catchers. Bachenheimer Bros. & Co. No. 103,719; Apr. 13; Gaz. vol. 213; p. 741.
- Fly-catching devices. B. S. Booth. No. 105,099; July 6; Gaz. vol. 216; p. 323.
- Fly-killers. United States Wire Mat Co. No. 104,136; May 4; Gaz. vol. 214; p. 339.
- Fly-killers. Hand. United States Wire Mat Company. No. 104,658; June 8; Gaz. vol. 215; p. 663.
- Floor-cloth. Geo. W. Blaborn Company. No. 103,991; Apr. 27; Gaz. vol. 213; p. 1441.
- Floor polishing, waxing, scrubbing, &c., machine. Vacuum Sales Co. No. 103,251; Mar. 23; Gaz. vol. 212; p. 1354.
- Flooring and magnesite stucco. Sanitary cement. F. R. Muller. No. 103,110; Mar. 16; Gaz. vol. 212; p. 1052.
- Flooring and roof-coating binder. Bituminous. New Haven Gas Light Company. No. 107,186; Nov. 16; Gaz. vol. 220; p. 1036.
- Flooring and wainscoting. Fireproof composition. C. W. Morrison. No. 102,575; Feb. 16; Gaz. vol. 211; p. 951.
- Flooring, Composition. W. K. Freeman. No. 106,956; Nov. 9; Gaz. vol. 220; p. 670.
- Flooring, Maple, Bliss & Van Auker Lumber Co. No. 104,591; June 8; Gaz. vol. 215; p. 661.
- Flooring material, Magnesite-chlorid. The Litosilo Co. of America. No. 103,590; Apr. 6; Gaz. vol. 213; p. 356.
- Floss, yarn, and thread. The Winsted Silk Company. No. 101,998; Jan. 19; Gaz. vol. 210; p. 1002.
- Flour. Shelton Mills. No. 102,806; Feb. 23; Gaz. vol. 211; p. 1259.
- Flour and cornmeal, Wheat and Graham. W. B. Starr. No. 103,038; Mar. 16; Gaz. vol. 212; p. 1050.
- Flour and middlings, Wheat-. Pillsbury Flour Mills Company. No. 103,397; Mar. 30; Gaz. vol. 212; p. 1687.
- Flour and powdered milk, Pancake-. Gruensfelder Bros. No. 101,777; Jan. 12; Gaz. vol. 210; p. 710.
- Flour, animal and poultry feed, Wheat-. K. B. R. Milling Company. No. 103,816; Apr. 13; Gaz. vol. 213; p. 744.
- Flour, bran, and middlings, Wheat-, Clark Paper and Manufacturing Company. No. 103,942; Apr. 20; Gaz. vol. 213; p. 1114.
- Flour, breakfast food, bread for treatment of diabetes, and olive-oil, Processed. Waukesha Health Products Co. No. 103,772; Apr. 13; Gaz. vol. 213; p. 743.
- Flour, Corn-. Blank & Gottshall. No. 103,041; Mar. 16; Gaz. vol. 212; p. 1050.
- Flour, Doughnut and cruller. F. A. Krause. No. 103,902; Apr. 20; Gaz. vol. 213; p. 1112.
- Flour, Graham, entire-wheat, and table bran. G. J. Wilson. No. 107,408; Nov. 23; Gaz. vol. 220; p. 1370.
- Flour, Graham, entire-wheat, and table bran. G. J. Wilson. No. 107,874; Dec. 28; Gaz. vol. 221; p. 1449.
- Flour, Mixed. J. Allen Smith & Company. No. 107,209; Nov. 16; Gaz. vol. 220; p. 1037.
- Flour of wheat, rye, and hemp-seed, Blended. The Life's Health Food Co. No. 102,126; Jan. 26; Gaz. vol. 210; p. 1390.
- Flour, Pancake-. Northern Light Milling Co. No. 105,922; Aug. 24; Gaz. vol. 217; p. 1337.
- Flour, Pancake-. The Otto Weiss Alfalfa Stock Food Co. No. 105,092; July 6; Gaz. vol. 216; p. 322.
- Flour, Prepared wheat-. The Cabell Company. No. 102,997; Mar. 16; Gaz. vol. 212; p. 1049.
- Flour, Prepared wheat-. J. & G. Cox. No. 103,314; Mar. 30; Gaz. vol. 212; p. 1684.
- Flour, Rice-. Dan Talmage's Sons Company. No. 102,461; Feb. 9; Gaz. vol. 211; p. 637.
- Flour, Rye-. The Mauser Mill Company. No. 107,621; Dec. 14; Gaz. vol. 221; p. 732.
- Flour, Self-rising pancake-. Bemmel's Milling Company. No. 105,930; Aug. 31; Gaz. vol. 217; p. 1657.
- Flour, Self-rising pancake-. The Blair Milling Company. No. 103,339; Mar. 30; Gaz. vol. 212; p. 1685.

Alphabetical list of trade-marks—Continued.

- Flour, Self-rising wheat. The Acme Mills. No. 104,432; June 1; Gaz. vol. 215; p. 317.
- Flour, Self-rising wheat. Akin-Erskine Milling Company. No. 106,537; Oct. 26; Gaz. vol. 219; p. 1227.
- Flour, Self-rising wheat. Alabama Grocery Company. No. 105,948; Aug. 31; Gaz. vol. 217; p. 1657.
- Flour, Self-rising wheat. The Ansted & Burk Co. No. 102,019; Jan. 26; Gaz. vol. 210; p. 1387.
- Flour, Self-rising wheat. Arkadelphia Milling Co. Nos. 102,488-9; Feb. 9; Gaz. vol. 211; p. 638.
- Flour, Self-rising wheat. Aunt Jemima Mills Company. No. 106,542; Oct. 26; Gaz. vol. 219; p. 1227.
- Flour, Self-rising wheat. The Automatic Flour Company. No. 102,024; Jan. 26; Gaz. vol. 210; p. 1387.
- Flour, Self-rising wheat. Columbia Star Milling Co. Nos. 102,059-60; Jan. 26; Gaz. vol. 210; p. 1388.
- Flour, Self-rising wheat. Wm. A. Coombs Milling Company. No. 105,107-8; July 6; Gaz. vol. 216; p. 323.
- Flour, Self-rising wheat. The Dunlop Milling Co. No. 103,229; Mar. 23; Gaz. vol. 212; p. 1354.
- Flour, Self-rising wheat. C. A. Gambrell Mfg. Co. No. 102,086; Jan. 26; Gaz. vol. 210; p. 1389.
- Flour, Self-rising wheat. E. Gilster. No. 102,941; Mar. 2; Gaz. vol. 212; p. 324.
- Flour, Self-rising wheat. P. Haupt. No. 107,334; Nov. 23; Gaz. vol. 220; p. 1368.
- Flour, Self-rising wheat. Koenigsmark Mill Company. No. 104,120; May 4; Gaz. vol. 214; p. 339.
- Flour, Self-rising wheat. Phoenix Flour Mill. No. 105,963; Aug. 31; Gaz. vol. 217; p. 1658.
- Flour, Self-rising wheat. Charles Tiedemann Milling Co. No. 101,988; June 19; Gaz. vol. 210; p. 1061.
- Flour, Wheat. Akin-Erskine Milling Company. No. 102,260; Feb. 2; Gaz. vol. 211; p. 279.
- Flour, Wheat. Wm. Alten Co. No. 103,687; Apr. 13; Gaz. vol. 213; p. 740.
- Flour, Wheat. The Ansted & Burk Co. No. 102,018; Jan. 26; Gaz. vol. 210; p. 1387.
- Flour, Wheat. Geo. C. Bagley Elevator Co. No. 103,937; Apr. 20; Gaz. vol. 213; p. 1113.
- Flour, Wheat. Bay State Milling Co. No. 102,247; Feb. 2; Gaz. vol. 211; p. 279.
- Flour, Wheat. The Blake Milling Company. No. 107,596; Dec. 14; Gaz. vol. 221; p. 731.
- Flour, Wheat. G. G. Buse. No. 105,888; Aug. 24; Gaz. vol. 217; p. 1336.
- Flour, Wheat. Canadian Mill & Elevator Co. No. 106,942; Nov. 9; Gaz. vol. 220; p. 669.
- Flour, Wheat. Chippewa Milling Company. No. 103,197; Mar. 23; Gaz. vol. 212; p. 1353.
- Flour, Wheat. Clyde Milling and Elevator Company. No. 105,511; Aug. 3; Gaz. vol. 217; p. 335.
- Flour, Wheat. Columbia Star Milling Co. No. 102,061; Jan. 26; Gaz. vol. 210; p. 1388.
- Flour, Wheat. Columbia Star Milling Co. No. 104,970; June 29; Gaz. vol. 215; p. 1494.
- Flour, Wheat. Commercial Milling Co. No. 104,418; May 25; Gaz. vol. 214; p. 1317.
- Flour, Wheat. Wm. A. Coombs Milling Company. No. 105,188; July 13; Gaz. vol. 216; p. 657.
- Flour, Wheat. H. T. Cottam & Co. No. 103,999; Apr. 27; Gaz. vol. 213; p. 1441.
- Flour, Wheat. Crouch Brothers Company. No. 105,109; July 6; Gaz. vol. 216; p. 323.
- Flour, Wheat. The Diamond Mill Company. No. 107,318; Nov. 23; Gaz. vol. 220; p. 1367.
- Flour, Wheat. Duluth-Superior Milling Company. No. 104,000; Apr. 27; Gaz. vol. 213; p. 1441.
- Flour, Wheat. Eisenmayer Milling Company. No. 103,691; Apr. 13; Gaz. vol. 213; p. 740.
- Flour, Wheat. Ellsworth Mill & Elevator Company. No. 103,260; Mar. 23; Gaz. vol. 212; p. 1355.
- Flour, Wheat. Federal Milling Company. No. 103,809; Apr. 13; Gaz. vol. 213; p. 744.
- Flour, Wheat. Fisher Flouring Mills Company. Nos. 105,050-1; July 6; Gaz. vol. 216; p. 321.
- Flour, Wheat. Fisher Flouring Mills Company. No. 105,195; July 13; Gaz. vol. 216; p. 657.
- Flour, Wheat. The Fort Collins Milling & Elevator Co. No. 103,025; Mar. 16; Gaz. vol. 212; p. 1050.
- Flour, Wheat. Fuhrer-Ford Milling Co. No. 106,957; Nov. 9; Gaz. vol. 220; p. 670.
- Flour, Wheat. Gladney Milling Company. No. 102,277; Feb. 2; Gaz. vol. 211; p. 280.
- Flour, Wheat. W. R. Grace & Co. No. 107,574; Dec. 14; Gaz. vol. 221; p. 731.
- Flour, Wheat. The Hays City Milling & Elevator Company. No. 105,590; Aug. 10; Gaz. vol. 217; p. 693.
- Flour, Wheat. The Hays City Milling and Elevator Company. No. 106,602; Oct. 26; Gaz. vol. 219; p. 1229.
- Flour, Wheat. The Higginsville Milling Co. No. 101,737; Jan. 12; Gaz. vol. 210; p. 709.
- Flour, Wheat. Highland Milling Company. No. 106,606; Oct. 26; Gaz. vol. 219; p. 1229.
- Flour, Wheat. Highland Milling Company. No. 107,068; Nov. 9; Gaz. vol. 220; p. 673.
- Flour, Wheat. Highland Milling Company. No. 107,335; Nov. 23; Gaz. vol. 220; p. 1368.
- Flour, Wheat. Wm. S. Hills Company. No. 104,327; May 18; Gaz. vol. 214; p. 1022.
- Flour, Wheat. Home Mill & Grain Co. No. 102,101; Jan. 26; Gaz. vol. 210; p. 1390.
- Flour, Wheat. Home Mill & Grain Co. No. 102,279; Feb. 2; Gaz. vol. 211; p. 280.
- Flour, Wheat. J. B. A. Kern & Sons. No. 103,291; Mar. 30; Gaz. vol. 212; p. 1683.
- Flour, Wheat. The King Milling Co. No. 102,117; Jan. 26; Gaz. vol. 210; p. 1390.
- Flour, Wheat. Koenigsmark Mill Company. No. 105,663; Aug. 10; Gaz. vol. 217; p. 695.
- Flour, Wheat. Koenigsmark Mill Company. No. 106,630; Oct. 26; Gaz. vol. 219; p. 1229.
- Flour, Wheat. E. F. Kohnke. No. 103,901; Apr. 20; Gaz. vol. 213; p. 1112.
- Flour, Wheat. Kuhlmann & Meyer. No. 102,524; Feb. 9; Gaz. vol. 211; p. 639.
- Flour, Wheat. The Larabee Flour Mills Company. No. 103,756; Apr. 13; Gaz. vol. 213; p. 742.
- Flour, Wheat. M. Lasker & Son. No. 105,362; July 20; Gaz. vol. 216; p. 1008.
- Flour, Wheat. Lawrenceburg Roller Mills Co. No. 106,002; Sept. 14; Gaz. vol. 218; p. 599.
- Flour, Wheat. The Lee-Warren Milling Company. No. 105,516; Aug. 3; Gaz. vol. 217; p. 335.
- Flour, Wheat. The Lee-Warren Milling Company. No. 107,617; Dec. 14; Gaz. vol. 221; p. 732.
- Flour, Wheat. Lewiston Milling Co. No. 102,528; Feb. 9; Gaz. vol. 211; p. 639.
- Flour, Wheat. Lewiston Milling Co. Nos. 102,569-70; Feb. 16; Gaz. vol. 211; p. 951.
- Flour, Wheat. Lexington Flouring Mills. No. 103,433; Apr. 6; Gaz. vol. 213; p. 352.
- Flour, Wheat. Lexington Flouring Mills. No. 105,302; July 13; Gaz. vol. 216; p. 660.
- Flour, Wheat. The Mansfield Milling Co. Nos. 107,619-20; Dec. 14; Gaz. vol. 221; p. 732.
- Flour, Wheat. Marshall Milling Co. No. 106,648; Oct. 26; Gaz. vol. 219; p. 1230.
- Flour, Wheat. Charles P. Matthews & Sons. No. 105,217; July 13; Gaz. vol. 216; p. 658.
- Flour, Wheat. James McDonnell Co. No. 107,359; Nov. 23; Gaz. vol. 220; p. 1368.
- Flour, Wheat. Montana Flour Mills Company. No. 105,859; Aug. 24; Gaz. vol. 217; p. 1335.
- Flour, Wheat. North Adams Wholesale Co. No. 107,087; Nov. 9; Gaz. vol. 220; p. 674.
- Flour, Wheat. The Peterson Power and Milling Company. No. 102,166; Jan. 26; Gaz. vol. 210; p. 1391.
- Flour, Wheat. Pillsbury Flour Mills Company. No. 102,170; Jan. 26; Gaz. vol. 210; p. 1392.
- Flour, Wheat. Pillsbury Flour Mills Company. No. 104,646; June 8; Gaz. vol. 215; p. 662.
- Flour, Wheat. C. L. Plumb. No. 104,125; May 4; Gaz. vol. 214; p. 339.
- Flour, Wheat. Queen City Flour & Feed Co. No. 105,325; July 20; Gaz. vol. 216; p. 1007.
- Flour, Wheat. The Rea-Patterson Milling Co. Nos. 102,816-17; Feb. 23; Gaz. vol. 211; p. 1259.
- Flour, Wheat. The Rea-Patterson Milling Co. No. 103,034; Mar. 16; Gaz. vol. 212; p. 1050.
- Flour, Wheat. Red Wing Milling Company. No. 102,309; Feb. 2; Gaz. vol. 211; p. 281.
- Flour, Wheat. Regina Flour Mill Company. No. 102,587; Feb. 16; Gaz. vol. 211; p. 952.
- Flour, Wheat. Regina Flour Mill Company. No. 103,914; Apr. 20; Gaz. vol. 213; p. 1113.
- Flour, Wheat. Regina Flour Mill Company. No. 105,396; July 20; Gaz. vol. 216; p. 1009.
- Flour, Wheat. Roberts Bros. Flour Mills. No. 102,818; Feb. 23; Gaz. vol. 211; p. 1259.
- Flour, Wheat. Salt Lick Milling Company. No. 105,518; Aug. 3; Gaz. vol. 217; p. 335.
- Flour, Wheat. Sands, Taylor & Wood Company. No. 104,234; May 11; Gaz. vol. 214; p. 678.
- Flour, Wheat. G. A. Schroeder. No. 102,187; Jan. 26; Gaz. vol. 210; p. 1392.
- Flour, Wheat. The Scott County Milling Company. No. 107,204; Nov. 16; Gaz. vol. 220; p. 1037.
- Flour, Wheat. Shannon & Mott Company. No. 105,025; June 29; Gaz. vol. 215; p. 1496.
- Flour, Wheat. Sheffield-King Milling Co. No. 103,767; Apr. 13; Gaz. vol. 213; p. 743.
- Flour, Wheat. Shelton Mills. No. 105,240; July 13; Gaz. vol. 216; p. 659.
- Flour, Wheat. Shelton Mills. No. 105,905; Aug. 24; Gaz. vol. 217; p. 1337.
- Flour, Wheat. J. Allen Smith & Company. No. 107,102; Nov. 9; Gaz. vol. 220; p. 674.
- Flour, Wheat. Smith and Nettle Company. No. 102,194; Jan. 26; Gaz. vol. 210; p. 1392.
- Flour, Wheat. Sparks Milling Company. No. 104,848; June 22; Gaz. vol. 215; p. 1257.
- Flour, Wheat. Sparks Milling Company. No. 106,691; Oct. 29; Gaz. vol. 219; p. 1231.
- Flour, Wheat. St. Jacob Enterprise Mill Co. No. 104,341; May 18; Gaz. vol. 214; p. 1022.
- Flour, Wheat. Stanard-Tilton Milling Co. No. 103,331; Mar. 30; Gaz. vol. 212; p. 1684.
- Flour, Wheat. Stanard-Tilton Milling Co. No. 105,144; July 6; Gaz. vol. 216; p. 324.
- Flour, Wheat. G. Terryberry. No. 104,655; June 8; Gaz. vol. 215; p. 663.
- Flour, Wheat. J. I. Triplett. No. 106,383; Oct. 19; Gaz. vol. 219; p. 923.

- Flour, Wheat. Valier & Spies Milling Co. No. 102,592; Feb. 16; Gaz. vol. 211; p. 952.
- Flour, Wheat. Whaley Mill & Elevator Co. No. 105,031; June 29; Gaz. vol. 215; p. 1496.
- Flour, Wheat. Thornton & Chester Milling Co. No. 107,588; Dec. 14; Gaz. vol. 221; p. 731.
- Flour, Wheat. Thornton & Chester Milling Company. No. 107,796; Dec. 28; Gaz. vol. 221; p. 1447.
- Flour, Wheat. The Wabash Roller Mills Company. No. 103,402; Mar. 30; Gaz. vol. 212; p. 1687.
- Flour, Wheat. I. J. Warren. No. 103,868; Apr. 20; Gaz. vol. 213; p. 1111.
- Flour, Wheat. Washburn-Crosby Co. No. 101,995; Jan. 19; Gaz. vol. 210; p. 1062.
- Flour, Wheat. Washburn-Crosby Company. No. 102,229; Jan. 26; Gaz. vol. 210; p. 1393.
- Flour, Wheat. Washburn-Crosby Co. No. 102,475; Feb. 9; Gaz. vol. 211; p. 637.
- Flour, Wheat. Washburn Crosby Company. No. 106,919; Nov. 2; Gaz. vol. 220; p. 346.
- Flour, Wheat. Whaley Mill & Elevator Co. No. 104,080; Apr. 27; Gaz. vol. 213; p. 1443.
- Flour, Wheat. Whaley Mill & Elevator Co. No. 107,590; Dec. 14; Gaz. vol. 221; p. 731.
- Flour, Wheat. L. R. Yangco. No. 101,689; Jan. 5; Gaz. vol. 210; p. 395.
- Flour, Wheat. L. R. Yangco. No. 101,691; Jan. 5; Gaz. vol. 210; p. 395.
- Flour, Wheat. G. A. Zabriskie. No. 103,460; Apr. 6; Gaz. vol. 213; p. 352.
- Flour, Wheat and corn mixture. Aunt Jemima Mills Company. No. 106,543; Oct. 26; Gaz. vol. 219; p. 1227.
- Flour, White. New Century Company. No. 107,496; Dec. 7; Gaz. vol. 221; p. 346.
- Flours and breakfast foods. F. F. Roby. No. 103,445; Apr. 6; Gaz. vol. 213; p. 352.
- Flours and cornmeal. Wheat, Graham, and pancake. E. O. Harris. No. 104,725; June 15; Gaz. vol. 215; p. 972.
- Flours, cornmeal, scratch, &c. Little Crow Milling Co. No. 104,836; June 22; Gaz. vol. 215; p. 1257.
- Flours, Self-rising pancake, buckwheat, and biscuit. McDonald Milling Company. No. 107,622; Dec. 14; Gaz. vol. 221; p. 732.
- Flours, Wheat and corn. Plymouth Milling Company. No. 104,394; May 25; Gaz. vol. 214; p. 1316.
- Flours, Wheat and self-rising wheat. Schoening-Koenigsmark Milling Company. No. 105,875; Aug. 10; Gaz. vol. 217; p. 696.
- Flowers, Cut. Grimm & Gorly. No. 105,657; Aug. 10; Gaz. vol. 217; p. 695.
- Food and bone-meal for cattle, Poultry. Bowker Fertilizer Co. No. 105,184; July 13; Gaz. vol. 216; p. 657.
- Food, Brain and nerve. St. Ivel, Limited. No. 107,014; Nov. 9; Gaz. vol. 220; p. 672.
- Food, Cereal breakfast. H. A. Lauhoff. No. 107,669; Dec. 14; Gaz. vol. 221; p. 734.
- Food, Certain named. A. A. Horlick. No. 105,355; July 20; Gaz. vol. 216; p. 1008.
- Food compound. Calif. F. B. Dennie. No. 102,066; Jan. 26; Gaz. vol. 210; p. 1388.
- Food consisting of grains, nuts, and fruit. B. Macfadden. No. 104,258; May 11; Gaz. vol. 214; p. 679.
- Food, Cotton-seed stock. Osage Cotton Oil Company. No. 106,994; Nov. 9; Gaz. vol. 220; p. 671.
- Food, Dry malted. Thompson's Malted Food Company. No. 102,208; Jan. 26; Gaz. vol. 210; p. 1393.
- Food for fowls. Windsor Stock Food Company. No. 105,477; July 27; Gaz. vol. 216; p. 1314.
- Food for horses, cattle, &c., Prepared. Chapin & Company. No. 107,837; Dec. 28; Gaz. vol. 221; p. 1448.
- Food for horses, cattle, &c., Prepared. Chapin & Company. No. 107,839; Dec. 28; Gaz. vol. 221; p. 1448.
- Food for horses, cattle, sheep, &c., Prepared. The Windsor Stock Food Company. No. 106,533; Oct. 19; Gaz. vol. 219; p. 927.
- Food for infants made of barley. Prepared. Brooks Barley Co. No. 105,579; Aug. 10; Gaz. vol. 217; p. 693.
- Food for live stock. Mixed. South Texas Grain Company. No. 107,876; Dec. 28; Gaz. vol. 221; p. 1447.
- Food, Infant. Sister Lauras Infant Food Co. No. 102,765; Feb. 23; Gaz. vol. 211; p. 1258.
- Food, Malt and wheat breakfast. Sims Cereal Company. No. 104,339; May 18; Gaz. vol. 214; p. 1022.
- Food, Poultry. "Hen-Cackle" Poultry Supply Co. No. 105,592; Aug. 10; Gaz. vol. 217; p. 693.
- Food preparation for the stomach and bowels. Medicinal. W. W. Knight. No. 105,820; Aug. 17; Gaz. vol. 217; p. 1052.
- Food product consisting of certain named ingredients. Merrell-Soule Company. No. 105,420; July 20; Gaz. vol. 216; p. 1010.
- Food product, Meat. L. Frank & Son Co. No. 105,585; Aug. 10; Gaz. vol. 217; p. 693.
- Food product prepared from wheat. Kellogg Toasted Corn Flake Company. No. 105,358; July 20; Gaz. vol. 216; p. 1008.
- Food, Stock. Domestic Flour Milling Co. No. 102,832; Feb. 23; Gaz. vol. 211; p. 1260.
- Food, Stock. The Fergar Grain Company. No. 102,604; Feb. 16; Gaz. vol. 211; p. 952.
- Food, Stock. F. H. Frayser. No. 104,766; June 15; Gaz. vol. 215; p. 973.
- Food, Stock. E. B. Plummer. No. 103,205; Mar. 23; Gaz. vol. 212; p. 1353.
- Food-warmers and candle-lamps. Prices Patent Candle Company. No. 102,340; Feb. 9; Gaz. vol. 211; p. 633.
- Food, Wheat and barley breakfast. Northern Light Milling Co. No. 102,579; Feb. 16; Gaz. vol. 211; p. 951.
- Food, Wheat breakfast. J. T. Mason. No. 106,461; Oct. 19; Gaz. vol. 219; p. 925.
- Food, Wheat cereal breakfast. Newtown Cut Wheat Cereal and Trading Company. No. 105,468; July 27; Gaz. vol. 216; p. 1314.
- Foods. J. H. Anderson & Co. No. 105,522; Aug. 3; Gaz. vol. 217; p. 335.
- Foods, Certain named. Abenheim & Blessing. No. 105,633; Aug. 10; Gaz. vol. 217; p. 694.
- Foods, Certain named. Abraham & Straus. No. 107,230; Nov. 16; Gaz. vol. 220; p. 1038.
- Foods, Certain named. Acme-Evans Company. No. 106,921; Nov. 9; Gaz. vol. 220; p. 669.
- Foods, Certain named. Acme Packing Company. No. 105,574; Aug. 10; Gaz. vol. 217; p. 693.
- Foods, Certain named. Alart & McGuire. No. 104,082; Apr. 27; Gaz. vol. 213; p. 1444.
- Foods, Certain named. All-Package Grocery Stores Co. No. 107,305; Nov. 23; Gaz. vol. 220; p. 1367.
- Foods, Certain named. Allen & Lewis. No. 101,895; Jan. 13; Gaz. vol. 210; p. 1059.
- Foods, Certain named. Arkansas Grocer Co. No. 103,639; Apr. 13; Gaz. vol. 213; p. 739.
- Foods, Certain named. Berdan & Company. No. 101,617; Jan. 5; Gaz. vol. 210; p. 393.
- Foods, Certain named. Bossemeyer Bros. No. 107,148; Nov. 16; Gaz. vol. 220; p. 1035.
- Foods, Certain named. B. C. Buxton. No. 102,252; Feb. 2; Gaz. vol. 211; p. 279.
- Foods, Certain named. The Cabell Company. No. 107,570; Dec. 14; Gaz. vol. 221; p. 731.
- Foods, Certain named. Campbell Holton Co. No. 102,410; Feb. 9; Gaz. vol. 211; p. 635.
- Foods, Certain named. Campbell Holton & Co. No. 102,798; Feb. 23; Gaz. vol. 211; p. 1259.
- Foods, Certain named. Causse Manufacturing & Importing Company. No. 107,049; Nov. 9; Gaz. vol. 220; p. 673.
- Foods, Certain named. City of Hamburg Co. No. 102,374; Feb. 9; Gaz. vol. 211; p. 634.
- Foods, Certain named. Collins Company. No. 107,572; Dec. 14; Gaz. vol. 221; p. 731.
- Foods, Certain named. Darragh Company. No. 102,511; Feb. 9; Gaz. vol. 211; p. 638.
- Foods, Certain named. Downing Taylor Co. No. 102,270; Feb. 2; Gaz. vol. 211; p. 279.
- Foods, Certain named. Driscoll, Church & Hall. No. 106,753; Oct. 26; Gaz. vol. 219; p. 1233.
- Foods, Certain named. Eberts & Bro. No. 106,949; Nov. 9; Gaz. vol. 220; p. 670.
- Foods, Certain named. S. B. Elliot. No. 106,952; Nov. 9; Gaz. vol. 220; p. 671.
- Foods, Certain named. L. S. Elmer. No. 104,869; June 22; Gaz. vol. 215; p. 1258.
- Foods, Certain named. M. L. Eppstein. No. 105,584; Aug. 10; Gaz. vol. 217; p. 693.
- Foods, Certain named. The Frank Tea & Spice Co. No. 105,196; July 13; Gaz. vol. 216; p. 657.
- Foods, Certain named. Fred L. Norton & West Corporation. No. 101,790; Jan. 12; Gaz. vol. 210; p. 711.
- Foods, Certain named. Gunns Limited. No. 106,967; Nov. 9; Gaz. vol. 220; p. 670.
- Foods, Certain named. Goldberg Bowen & Co. No. 102,399; Feb. 9; Gaz. vol. 211; p. 635.
- Foods, Certain named. Goldberg, Bowen & Co. No. 106,427; Oct. 19; Gaz. vol. 219; p. 924.
- Foods, Certain named. Groneweg & Schoentgen Co. No. 107,845; Dec. 28; Gaz. vol. 221; p. 1448.
- Foods, Certain named. Habicht, Braun & Co. No. 101,942; Jan. 19; Gaz. vol. 210; p. 1060.
- Foods, Certain named. Habicht, Braun & Co. Nos. 102,789-92; Feb. 23; Gaz. vol. 211; p. 1258.
- Foods, Certain named. Habicht, Braun & Co. No. 103,317; Mar. 30; Gaz. vol. 212; p. 1684.
- Foods, Certain named. Habicht, Braun & Co. No. 104,768; June 15; Gaz. vol. 215; p. 973.
- Foods, Certain named. Habicht, Braun & Co. Nos. 105,845-6; Aug. 24; Gaz. vol. 217; p. 1335.
- Foods, Certain named. Habicht, Braun & Co. No. 106,431; Oct. 19; Gaz. vol. 219; p. 924.
- Foods, Certain named. Habicht, Braun & Co. No. 107,065; Nov. 9; Gaz. vol. 220; p. 673.
- Foods, Certain named. Hale-Halsell Gro. Co. No. 107,066; Nov. 9; Gaz. vol. 220; p. 673.
- Foods, Certain named. W. L. Hand Specialty Co. No. 107,846; Dec. 28; Gaz. vol. 221; p. 1448.
- Foods, Certain named. Hawks, Incorporated. No. 105,353; July 20; Gaz. vol. 216; p. 1008.
- Foods, Certain named. Hawks, Incorporated. No. 105,589; Aug. 10; Gaz. vol. 217; p. 693.
- Foods, Certain named. The Inter-State Grocer Co. No. 107,341; Nov. 23; Gaz. vol. 220; p. 1368.
- Foods, Certain named. The J. K. Armsby Co. No. 104,684; June 8; Gaz. vol. 215; p. 664.
- Foods, Certain named. Jahurg Bros. No. 107,342; Nov. 23; Gaz. vol. 220; p. 1368.

Alphabetical list of trade-marks—Continued.

- Foods, Certain named. Jaburg Brothers. No. 107,492; Dec. 7; Gaz. vol. 221; p. 345.
- Foods, Certain named. Kellogg Toasted Corn Flake Company. No. 105,213; July 13; Gaz. vol. 216; p. 658.
- Foods, Certain named. Kirk, Geary & Co. No. 102,803; Feb. 23; Gaz. vol. 211; p. 1259.
- Foods, Certain named. Klabner, Wangenheim Co. No. 102,419; Feb. 9; Gaz. vol. 211; p. 635.
- Foods, Certain named. S. Lipowicz. No. 107,078; Nov. 9; Gaz. vol. 220; p. 673.
- Foods, Certain named. Lippincott & Co. Nos. 103,435-7; Apr. 6; Gaz. vol. 213; p. 352.
- Foods, Certain named. T. Martindale & Co. No. 102,426; Feb. 9; Gaz. vol. 211; p. 636.
- Foods, Certain named. Mayfield Company. No. 107,577; Dec. 14; Gaz. vol. 221; p. 731.
- Foods, Certain named. Mayfield Company. No. 107,792; Dec. 28; Gaz. vol. 221; p. 1447.
- Foods, Certain named. J. Middleby, Jr. No. 106,652; Oct. 26; Gaz. vol. 219; p. 1230.
- Foods, Certain named. National Grocery Company. No. 106,117; Oct. 12; Gaz. vol. 219; p. 582.
- Foods, Certain named. National Tea Importing Co. No. 107,364; Nov. 23; Gaz. vol. 220; p. 1368.
- Foods, Certain named. The New Wooster Preserving Co. No. 106,119; Oct. 12; Gaz. vol. 219; p. 582.
- Foods, Certain named. No-Vary Products Co. No. 107,581; Dec. 14; Gaz. vol. 221; p. 731.
- Foods, Certain named. A/S. Norwegian Cannery Export Office. No. 102,807; Feb. 23; Gaz. vol. 211; p. 1259.
- Foods, Certain named. J. H. Orr Co. No. 104,644; June 8; Gaz. vol. 215; p. 662.
- Foods, Certain named. Parsons & Scoville Co. No. 103,328; Mar. 30; Gaz. vol. 212; p. 1684.
- Foods, Certain named. Pacific Coast Biscuit Company. No. 102,157; Jan. 26; Gaz. vol. 210; p. 1391.
- Foods, Certain named. Rust-Parker-Martin Company. No. 104,128; May 4; Gaz. vol. 214; p. 339.
- Foods, Certain named. Sanitary Food Manufacturing Company. No. 102,342; Feb. 9; Gaz. vol. 211; p. 633.
- Foods, Certain named. Sanitary Food Products Co. No. 103,916; Apr. 20; Gaz. vol. 213; p. 1113.
- Foods, Certain named. Sears, Roebuck and Co. No. 106,805; Oct. 26; Gaz. vol. 219; p. 1235.
- Foods, Certain named. Societe Anonyme des Etablissements Rouzand "a la Marquise de Sevigne" Chocolat de Royat. No. 105,967; Aug. 31; Gaz. vol. 217; p. 1658.
- Foods, Certain named. Société de Conserves Alimentaires de la Vallée du Rhône. No. 103,706; Apr. 13; Gaz. vol. 213; p. 741.
- Foods, Certain named. The Sperry & Barnes Co. No. 102,315; Feb. 2; Gaz. vol. 211; p. 281.
- Foods, Certain named. Spokane Valley Orchard & Land Company. No. 103,271; Mar. 23; Gaz. vol. 212; p. 1355.
- Foods, Certain named. Steele-Wedeles Company. No. 107,021; Nov. 9; Gaz. vol. 220; p. 672.
- Foods, Certain named. Steele-Wedeles Company. No. 107,586; Dec. 14; Gaz. vol. 221; p. 731.
- Foods, Certain named. Strohmeyer & Arpe Company. Nos. 102,768-70; Feb. 23; Gaz. vol. 211; p. 1258.
- Foods, Certain named. Strohmeyer & Arpe Company. No. 103,013; Mar. 16; Gaz. vol. 212; p. 1049.
- Foods, Certain named. Strohmeyer & Arpe Company. Nos. 103,188-9; Mar. 16; Gaz. vol. 212; p. 1054.
- Foods, Certain named. Strohmeyer & Arpe Company. No. 103,300; Mar. 30; Gaz. vol. 212; p. 1683.
- Foods, Certain named. The Struby-Estabrook Mercantile Company. No. 101,684; Jan. 5; Gaz. vol. 210; p. 395.
- Foods, Certain named. F. B. Sullivan. No. 106,083; Oct. 5; Gaz. vol. 219; p. 267.
- Foods, Certain named. The S. Thalmann & Schwab M. B. H. No. 106,700; Oct. 26; Gaz. vol. 219; p. 1231.
- Foods, Certain named. Tillmann & Bendel. No. 105,145; July 6; Gaz. vol. 216; p. 324.
- Foods, Certain named. The Van Camp Packing Co. No. 102,988; Mar. 9; Gaz. vol. 212; p. 686.
- Foods, Certain named. Vittucci Importing Co. No. 102,823; Feb. 23; Gaz. vol. 211; p. 1259.
- Foods, Certain named. S. Warsbawsky & Sons. No. 102,593; Feb. 16; Gaz. vol. 211; p. 952.
- Foods, Certain named prepared. Horlick's Malted Milk Company. No. 105,593; Aug. 10; Gaz. vol. 217; p. 693.
- Foods, Dog, poultry, and stock. M. R. Maurer. No. 107,576; Dec. 14; Gaz. vol. 221; p. 731.
- Foods for domesticated animals, Certain named. A. E. Shultz. No. 107,390; Nov. 23; Gaz. vol. 220; p. 1369.
- Foods for invalids, &c., Medicinal. Arlington Chemical Co. No. 103,774; Apr. 13; Gaz. vol. 213; p. 743.
- Foods in paste form or a dry state, Certain malted. Thompson's Malted Food Company. No. 104,159; May 4; Gaz. vol. 214; p. 340.
- Foods, Preparation for the production of certain named. W. H. Hipolite. No. 102,711; Feb. 23; Gaz. vol. 211; p. 1256.
- Foods, Seasoning sauces for. S. Nagano. No. 105,919; Aug. 24; Gaz. vol. 217; p. 1337.
- Foot-tonsic. J. M. Lang. No. 106,980; Nov. 9; Gaz. vol. 220; p. 670.
- Footwear. Mishawaka Woolen Manufacturing Company. No. 106,654; Oct. 26; Gaz. vol. 219; p. 1230.
- Forgings and castings and steel, Metal. J. H. Williams & Co. No. 103,018; Mar. 16; Gaz. vol. 212; p. 1049.
- Foundry-sand, Powder for renovating spent. H. E. Comings. No. 103,873; Apr. 20; Gaz. vol. 213; p. 1112.
- Friction fabric and insulating-tape. Continental Rubber Works. No. 104,208; May 11; Gaz. vol. 214; p. 677.
- Frosting for cakes. R. G. Fiege. No. 105,049; July 6; Gaz. vol. 216; p. 321.
- Fruit-container, Paper. O. E. Smith. No. 107,453; Nov. 30; Gaz. vol. 220; p. 1715.
- Fruit-mince-meat preparations. A. S. Livermore. No. 105,165; July 6; Gaz. vol. 216; p. 324.
- Fruit-pulp, jellies, vinegar, and mustard, Preserved. S. N. Samaha & Bro. No. 104,916; June 22; Gaz. vol. 215; p. 1259.
- Fruit tablets. Candy Bros. Mfg. Co. No. 102,040; Jan. 26; Gaz. vol. 210; p. 1388.
- Fruits and berries, Certain named fresh. Rogue River Fruit & Produce Association. No. 106,055; Sept. 21; Gaz. vol. 218; p. 873.
- Fruits and raisins, Dried and evaporated. The J. K. Armsby Co. No. 103,989; Apr. 27; Gaz. vol. 213; p. 1441.
- Fruits and vegetables and preserved fruits, Fresh. H. C. Greene. No. 103,162; Mar. 16; Gaz. vol. 212; p. 1054.
- Fruits and vegetables, Dried. L. R. Yangco. No. 101,723; Jan. 5; Gaz. vol. 210; p. 396.
- Fruits and vegetables, Fresh. Mutual Service Corporation. No. 102,757; Feb. 23; Gaz. vol. 211; p. 1257.
- Fruits and vegetables, Fresh. P. Phillips. No. 102,584; Feb. 16; Gaz. vol. 211; p. 952.
- Fruits and vegetables, Fresh. W. S. Shearer. No. 103,681; Apr. 13; Gaz. vol. 213; p. 740.
- Fruits, Citrus. F. C. Buffum. No. 103,373; Mar. 30; Gaz. vol. 212; p. 1686.
- Fruits, Citrus. Eagle Lake Citrus Growers Association. No. 104,503; June 1; Gaz. vol. 215; p. 319.
- Fruits, Citrus. Florida Citrus Exchange. No. 106,590; Oct. 26; Gaz. vol. 219; p. 1228.
- Fruits, Citrus. Lakeland Citrus Growers Association. Nos. 104,512-13; June 1; Gaz. vol. 215; p. 319.
- Fruits, Citrus. J. J. McIndoo. No. 102,429; Feb. 9; Gaz. vol. 211; p. 636.
- Fruits, Citrus. Pitino Brothers. No. 104,988; June 29; Gaz. vol. 215; p. 1495.
- Fruits, Citrus. Plymouth Citrus Growers Assc. No. 103,913; Apr. 20; Gaz. vol. 213; p. 1113.
- Fruits, Citrus. H. C. Schrader Co. No. 103,969; Apr. 20; Gaz. vol. 213; p. 1114.
- Fruits, Citrus. H. C. Schrader Co. No. 105,372; July 20; Gaz. vol. 216; p. 1009.
- Fruits, Citrus. H. C. Schrader Co. No. 106,514; Oct. 19; Gaz. vol. 219; p. 927.
- Fruits, Citrus. Tampa Citrus Growers Association. No. 106,699; Oct. 26; Gaz. vol. 219; p. 1231.
- Fruits, Deciduous. Fresno Fruit Growers Co. No. 101,937; Jan. 19; Gaz. vol. 210; p. 1060.
- Fruits, Dried. The J. K. Armsby Co. No. 104,523; June 1; Gaz. vol. 215; p. 319.
- Fruits, Dried. Guggenheim & Company. No. 107,329; Nov. 23; Gaz. vol. 220; p. 1367.
- Fruits, Dried. W. A. Higgins. No. 102,408; Feb. 9; Gaz. vol. 211; p. 635.
- Fruits, Fresh and dried. Fanning Charters Fruit Distributing Company. No. 107,253; Nov. 16; Gaz. vol. 220; p. 1038.
- Fruits, Fresh. A. S. Congdon. No. 103,943; Apr. 20; Gaz. vol. 213; p. 1114.
- Fruits, Fresh. F. A. Stuart. No. 102,771; Feb. 23; Gaz. vol. 211; p. 1258.
- Fruits, Fresh. W. S. White. No. 103,578; Apr. 6; Gaz. vol. 213; p. 356.
- Fruits, Fresh and preserved. E. Binney. No. 105,247; July 13; Gaz. vol. 216; p. 659.
- Fuel composed mainly of alcohol, Solid. S. Sternau & Co. No. 105,426; July 20; Gaz. vol. 216; p. 1010.
- Fuel for explosive-gas engines, Liquid. The American Coal Refining Company. No. 102,011; Jan. 26; Gaz. vol. 210; p. 1387.
- Fuel for increasing the efficiency of gasoline-engines. F. M. Giddings. No. 105,513; Aug. 3; Gaz. vol. 217; p. 335.
- Fuel-improver, Fluid. C. F. Hawk. No. 101,849; Jan. 12; Gaz. vol. 210; p. 712.
- Fuel-saving devices. Heat Saver Company. No. 107,258; Nov. 16; Gaz. vol. 220; p. 1038.
- Fuels for internal-combustion engines. Preparation for treating. Auto-Gas Oil Company. No. 102,022; Jan. 26; Gaz. vol. 210; p. 1387.
- Fumigating and deodorizing liquids. Sanitary Manufacturing Company. No. 102,617; Feb. 16; Gaz. vol. 211; p. 953.
- Fumigators and insecticides. F. A. Thompson & Company. No. 102,549; Feb. 9; Gaz. vol. 211; p. 639.
- Fungicide for cereals. The Bayer Company. No. 106,547; Oct. 26; Gaz. vol. 219; p. 1227.
- Fungicide for spraying fruits and vegetables. The Sherwin-Williams Co. No. 105,561; Aug. 3; Gaz. vol. 217; p. 336.
- Fur muffs and scarfs. Semons Fur Co. No. 105,759; Aug. 17; Gaz. vol. 217; p. 1050.

Alphabetical list of trade-marks—Continued.

- Fur scarfs and muffs. Jalkoff Bros. Nos. 104,941-3; June 29; Gaz. vol. 215; p. 1493.
- Fur trimmings, edgings, aigrets, and pompons. Lehrburger & Asher. No. 102,527; Feb. 9; Gaz. vol. 211; p. 639.
- Furs and skins. Seiffer & Son. No. 105,239; July 13; Gaz. vol. 216; p. 659.
- Furnaces and garage-heaters, Combination gas and coal. Buckeye Furnace & Clothes Dryer Co. No. 101,828; Jan. 12; Gaz. vol. 210; p. 712.
- Furnaces, Hot-air. Haynes-Langenberg Manufacturing Company. No. 107,067; Nov. 9; Gaz. vol. 220; p. 673.
- Furnaces, Hot-air. Interstate Manufacturing Company. No. 101,781; Jan. 12; Gaz. vol. 210; p. 710.
- Furnishings and notions, Certain named. H. H. Klein. No. 105,819; Aug. 17; Gaz. vol. 217; p. 1052.
- Furnishings, Sheet-metal office. Watson Mfg. Co. No. 102,230; Jan. 26; Gaz. vol. 210; p. 1393.
- Furniture and upholstering-leather cleaning and polishing compound. Mrs. A. Fuller. No. 102,652; Feb. 16; Gaz. vol. 211; p. 954.
- Furniture and upholstery, Certain named. Ludwig Baumann & Comp'y. No. 102,731; Feb. 23; Gaz. vol. 211; p. 1257.
- Furniture and upholstery, Certain named. Daimler-Motoren-Gesellschaft. No. 101,774; Jan. 12; Gaz. vol. 210; p. 710.
- Furniture and upholstery, Certain named. The House of Giordano. No. 102,105; Jan. 26; Gaz. vol. 210; p. 1390.
- Furniture, automobile or carriage, and floor polishes. W. C. Polgreen. No. 102,813; Feb. 23; Gaz. vol. 211; p. 1259.
- Furniture, Certain named. Aimone Manufacturing Company. No. 103,142; Mar. 16; Gaz. vol. 212; p. 1053.
- Furniture, Certain named. Art Metal Construction Co. No. 107,141; Nov. 16; Gaz. vol. 220; p. 1035.
- Furniture, Certain named. Berkey and Gay Furniture Company. No. 106,548; Oct. 26; Gaz. vol. 219; p. 1227.
- Furniture, Certain named. Chicago Hardware Foundry Company. No. 102,056; Jan. 26; Gaz. vol. 210; p. 1388.
- Furniture, Certain named. The Jake Tennebaum Co. No. 102,987; Mar. 9; Gaz. vol. 212; p. 685.
- Furniture, Certain named household and office. The Buckley-Newhall Company. No. 107,487; Dec. 7; Gaz. vol. 221; p. 345.
- Furniture-dressing. R. A. Phillips. No. 104,262; May 11; Gaz. vol. 214; p. 679.
- Furniture, floor, vehicle-body, &c., polish. J. G. Croll & Son. No. 106,146; Oct. 12; Gaz. vol. 219; p. 582.
- Furniture, Grass. Crex Carpet Company. No. 107,154; Nov. 16; Gaz. vol. 220; p. 1035.
- Furniture, Metal, wood, and upholstered. Staudt & Co. No. 102,767; Feb. 23; Gaz. vol. 211; p. 1258.
- Furniture, piano, automobile, carriage, &c., polishes. H. H. Juelg. No. 106,109; Oct. 12; Gaz. vol. 219; p. 581.
- Furniture, piano, automobile, &c., polish and cleaner. Du Mor Specialty Co. No. 104,829; June 22; Gaz. vol. 215; p. 1257.
- Furniture, piano, &c., polishing oil. John W. Masury & Son. No. 105,118; July 6; Gaz. vol. 216; p. 323.
- Furniture-polish. W. H. Garner & Co. No. 105,197; July 13; Gaz. vol. 216; p. 657.
- Furniture-polish. E. S. Kille. No. 106,337; Oct. 19; Gaz. vol. 219; p. 921.
- Furniture-polish. J. H. V. Moody. No. 104,290; May 18; Gaz. vol. 214; p. 1021.
- Furniture-polish. H. L. Stoner. No. 105,968; Aug. 31; Gaz. vol. 217; p. 1658.
- Furniture-polish. Wizard Products Co. No. 106,820; Oct. 26; Gaz. vol. 219; p. 1235.
- Furniture-polish and cleansing compound. C. Keavill & Son. No. 104,094; Apr. 27; Gaz. vol. 213; p. 1444.
- Furniture-polish and finisher of wood surfaces. O. S. Rhoads. No. 105,228; July 13; Gaz. vol. 216; p. 658.
- Furniture-polish and varnish-remover. Cactus Chemical Co. No. 105,010; June 29; Gaz. vol. 215; p. 1495.
- Furniture-polish, cleaner, polisher, and finisher for hardwood surfaces, &c. R. T. Joy. No. 101,710; Jan. 5; Gaz. vol. 210; p. 396.
- Furniture-polish, Liquid. T. C. Dawson. No. 103,418; Apr. 6; Gaz. vol. 213; p. 351.
- Furniture-polish, Liquid. The De Pree Chemical Company. No. 103,259; Mar. 23; Gaz. vol. 212; p. 1355.
- Fuse-plug or cartridge, Safety. C. C. Balassa. No. 101,724; Jan. 12; Gaz. vol. 210; p. 709.
- Fuse-plugs and cartridges, Safety. C. C. Balassa. No. 104,525; June 1; Gaz. vol. 215; p. 319.
- Fuse-plugs, Electrical. The Bryant Electric Company. No. 103,090; Mar. 16; Gaz. vol. 212; p. 1052.
- Fuses. The Ensign-Bickford Company. Nos. 102,387-94; Feb. 9; Gaz. vol. 211; p. 635.
- Fuses. The Ensign-Bickford Company. No. 104,217; May 11; Gaz. vol. 214; p. 677.
- Fuses. The Ensign-Bickford Company. No. 104,286; May 18; Gaz. vol. 214; p. 1021.
- Fuses. Rhein-Westf. Sicherheits-Zündschnurfabrik. No. 102,616; Feb. 16; Gaz. vol. 211; p. 953.
- Fuses, switches, cut-outs, &c. Detroit Fuse and Manufacturing Company. No. 103,050; Mar. 16; Gaz. vol. 212; p. 1050.
- Galactagogue. The Bayer Company. No. 101,762; Jan. 12; Gaz. vol. 210; p. 710.
- Game apparatus, Parlor. W. Raster. No. 101,750; Jan. 12; Gaz. vol. 210; p. 709.
- Game-boards. Home Golf Game Company. No. 107,741; Dec. 28; Gaz. vol. 221; p. 1445.
- Game-boards and accessories. A. A. Rees. No. 102,903; Mar. 2; Gaz. vol. 212; p. 323.
- Games. Booklovers Sales Company. No. 105,431; July 27; Gaz. vol. 216; p. 1313.
- Games. Milton Bradley Co. No. 101,619; Jan. 5; Gaz. vol. 210; p. 393.
- Games. Milton Bradley Co. No. 105,992; Sept. 14; Gaz. vol. 218; p. 599.
- Games. Parker Brothers. Nos. 106,013-14; Sept. 14; Gaz. vol. 218; p. 599.
- Games. H. Sieben. No. 103,735; Apr. 13; Gaz. vol. 213; p. 742.
- Games and toys, Certain named. Geo. Borgfeldt & Co. No. 107,146; Nov. 16; Gaz. vol. 220; p. 1035.
- Games, Card. The Telbax Co. No. 102,206; Jan. 26; Gaz. vol. 210; p. 1393.
- Games, sporting goods, and gymnasium supplies, Certain named. Rogers Peet Company. No. 103,121; Mar. 16; Gaz. vol. 212; p. 1052.
- Games, toys, and sporting goods. W. F. Hirschmann. No. 106,608; Oct. 26; Gaz. vol. 219; p. 1229.
- Games, toys, and sporting goods, Certain named. Geo. Borgfeldt & Co. No. 107,147; Nov. 16; Gaz. vol. 220; p. 1035.
- Games, toys, and sporting goods, Certain named. Continental Rubber Works. No. 105,996; Sept. 14; Gaz. vol. 218; p. 599.
- Games, toys, and sporting goods, Certain named. Montgomery Ward & Co. No. 106,987; Nov. 9; Gaz. vol. 220; p. 671.
- Garbage, oil, and waste cans. Justrite Manufacturing Company. No. 103,952; Apr. 20; Gaz. vol. 213; p. 1114.
- Garment, Combination. D. E. Sicher & Co. No. 104,295; May 18; Gaz. vol. 214; p. 1021.
- Garment-forms. Hall-Borchert Dress Form Co. No. 102,710; Feb. 23; Gaz. vol. 211; p. 1256.
- Garment-hangers. F. P. Johnson. No. 105,211; July 13; Gaz. vol. 216; p. 658.
- Garment-padding. Reinfel Manufacturing Company. No. 102,762; Feb. 23; Gaz. vol. 211; p. 1258.
- Garments, Children's sleeping. Lax & Strauss. No. 103,870; Apr. 20; Gaz. vol. 213; p. 1111.
- Garments, Combination outer and under. J. Goldberg. No. 104,722; June 15; Gaz. vol. 215; p. 972.
- Garments, Ladies' outer. A. Abrahamson. No. 103,988; Apr. 27; Gaz. vol. 213; p. 1441.
- Garments, Sleeping. W. D. Craig. No. 105,034; June 29; Gaz. vol. 215; p. 1496.
- Garters. A. W. Miller. No. 102,534; Feb. 9; Gaz. vol. 211; p. 639.
- Garters. Pioneer Suspender Company. No. 106,673; Oct. 26; Gaz. vol. 219; p. 1231.
- Garters and armbands. The National Garter Company. No. 104,027; Apr. 27; Gaz. vol. 213; p. 1442.
- Garters, suspenders, belts. American Belt Corporation. No. 106,539; Oct. 26; Gaz. vol. 219; p. 1227.
- Gas for fuel, Combustible. Pintsch Compressing Company. No. 106,178; Oct. 12; Gaz. vol. 219; p. 583.
- Gas-generators. The Cleffton Company. No. 102,917; Mar. 2; Gaz. vol. 212; p. 324.
- Gas-reservoirs, hot-air furnaces, blast and air heaters, &c. Danneberg & Quandt. No. 102,830; Feb. 23; Gaz. vol. 211; p. 1260.
- Gaskets of metal and metal and asbestos. Cut. Victor Manufacturing and Gasket Co. No. 104,240; May 11; Gaz. vol. 214; p. 678.
- Gasolene. American Oil Processes. No. 106,087; Oct. 12; Gaz. vol. 219; p. 581.
- Gasolene and lubricating-oil. Hughes Oil Company. No. 106,864; Nov. 2; Gaz. vol. 220; p. 344.
- Gasolene and preventing the deposit of carbon. Preparation for increasing the efficiency of. E. E. Bosca and J. G. Quinn, Jr. No. 106,290; Oct. 19; Gaz. vol. 219; p. 920.
- Gasolene-gages. Boston Auto Gage Co. No. 104,414; May 25; Gaz. vol. 214; p. 1317.
- Gasolene, kerosene, naphtha, &c. The National Refining Company. No. 103,859; Apr. 20; Gaz. vol. 213; p. 1111.
- Gasolene, refined oil, lubricating oils and greases, and candles. Standard Oil Company. Nos. 107,104-5; Nov. 9; Gaz. vol. 220; p. 674.
- Gauzes, compresses, surgeons' operating-coats, &c. The Tetra Company. No. 102,207; Jan. 26; Gaz. vol. 210; p. 1393.
- Gelatin. Charles B. Knox Company. Nos. 107,348-9; Nov. 23; Gaz. vol. 220; p. 1368.
- Gelatin. Plymouth Rock Gelatine Co. Nos. 105,747-8; Aug. 17; Gaz. vol. 217; p. 1050.
- Gelatin, Ingredients which when combined produce flavored. J. H. J. Colman. No. 102,058; Jan. 26; Gaz. vol. 210; p. 1388.
- Germicides. Chicago Germicide Co. No. 104,791; June 15; Gaz. vol. 215; p. 974.
- Germicides, Non-poisonous. T. L. Leeming. No. 106,345; Oct. 19; Gaz. vol. 219; p. 921.

Alphabetical list of trade-marks—Continued.

- Gimp. Geo. S. Harrington Company. No. 102,630; Feb. 16; Gaz. vol. 211; p. 953.
- Gin, Straight dry. Booth's Distillery Limited. No. 103,413; Apr. 6; Gaz. vol. 213; p. 351.
- Gins. A. Forbes. No. 104,555; June 1; Gaz. vol. 215; p. 320.
- Gins and liqueurs. Amsterdamsche Likeurstokerij "T Looftse" der Erven Lucas Bols. Nos. 106,727-8; Oct. 26; Gaz. vol. 219; p. 1232.
- Ginger-ale. California Fruit Beverage Company. No. 106,563; Oct. 26; Gaz. vol. 219; p. 1227.
- Ginger-ale. I. E. Emerson. No. 105,507; July 27; Gaz. vol. 216; p. 1315.
- Ginger-ale and root-beer. Franklin MacVeagh & Company. No. 103,697; Apr. 13; Gaz. vol. 213; p. 741.
- Ginger-ale, distilled water, sarsaparilla, and celery. Bennett Mineral and Distilled Water Co. No. 105,386; July 20; Gaz. vol. 216; p. 1009.
- Ginger-ale, pop, and carbonated waters. Black Diamond Products Company. No. 103,409; Apr. 6; Gaz. vol. 213; p. 351.
- Ginger-ale, sarsaparilla, birch and root beers, &c. Chic-quot Club Company. No. 106,144; Oct. 12; Gaz. vol. 219; p. 582.
- Ginger snap or wafers. J. E. Linihan. No. 107,077; Nov. 9; Gaz. vol. 220; p. 673.
- Ginger-snaps. Bishop & Company. No. 105,036; July 6; Gaz. vol. 216; p. 321.
- Ginger-snaps. Bishop & Company. No. 105,526; Aug. 3; Gaz. vol. 217; p. 335.
- Ginger-snaps. Loose-Wiles Biscuit Company. No. 102,531; Feb. 9; Gaz. vol. 211; p. 639.
- Ginger-snaps. Pacific Coast Biscuit Co. No. 106,361; Oct. 19; Gaz. vol. 219; p. 922.
- Ginghams. Lancaster Mills. No. 103,819; Apr. 13; Gaz. vol. 213; p. 744.
- Ginghams. Lancaster Mills. No. 107,267; Nov. 16; Gaz. vol. 220; p. 1039.
- Ginghams. Ostrander & Company. No. 106,664; Oct. 26; Gaz. vol. 219; p. 1230.
- Ginghams, seersuckers, plaids, &c. Aurora Cotton Mills. No. 104,283; May 18; Gaz. vol. 214; p. 1021.
- Glass. Corning Glass Works. Nos. 107,244-6; Nov. 16; Gaz. vol. 220; p. 1038.
- Glass articles. Certain named cut-. C. E. Wheelock & Co. No. 103,404; Mar. 30; Gaz. vol. 212; p. 1687.
- Glass-cleaning compound. E. Girod. No. 105,200; July 13; Gaz. vol. 216; p. 657.
- Glass-cutters. Smith & Hemenway Company. Nos. 107,865-7; Dec. 28; Gaz. vol. 221; p. 1449.
- Glass drinking-cup. M. P. Offutt. No. 103,701; Apr. 13; Gaz. vol. 213; p. 741.
- Glass for making certain named articles, &c. Raw. Schott & Gen. No. 103,970; Apr. 20; Gaz. vol. 213; p. 1114.
- Glass hollow tableware. Weiss & Biheller. No. 107,301; Nov. 16; Gaz. vol. 220; p. 1040.
- Glass shades and reflectors. General Electric Company. Nos. 103,692-3; Apr. 13; Gaz. vol. 213; p. 740.
- Glass shades for lighting purposes. B. Tomby. No. 103,272; Mar. 23; Gaz. vol. 212; p. 1355.
- Glass shades, globes, and reflectors. Gleason-Tiebout Glass Company. No. 103,694; Apr. 13; Gaz. vol. 213; p. 740.
- Glassware, illuminating-. Steuben Glass Works. No. 104,518; June 1; Gaz. vol. 215; p. 319.
- Globes and shades. Glass. L. Plaut & Co. No. 107,005; Nov. 9; Gaz. vol. 220; p. 671.
- Gloves. The Boss Manufacturing Company. Nos. 103,720-1; Apr. 13; Gaz. vol. 213; p. 741.
- Gloves. Busby Glove Co. Nos. 103,220-2; Mar. 23; Gaz. vol. 212; p. 1353.
- Gloves. Carson Glove Co. Nos. 101,767-70; Jan. 12; Gaz. vol. 210; p. 710.
- Gloves. The Charles William Stores, Inc. No. 105,705; Aug. 10; Gaz. vol. 217; p. 697.
- Gloves. F. Fitz Gibbon & Co. No. 104,720; June 15; Gaz. vol. 215; p. 971.
- Gloves. Julius Kayser & Co. No. 106,449; Oct. 19; Gaz. vol. 219; p. 925.
- Gloves. The Lasalle & Koch Co. No. 106,634; Oct. 26; Gaz. vol. 219; p. 1229.
- Gloves. L. Meyers & Son. No. 102,687; Feb. 23; Gaz. vol. 211; p. 1255.
- Gloves. Steinberger & Kalisher. No. 103,451; Apr. 6; Gaz. vol. 213; p. 352.
- Gloves. Stern Brothers. No. 106,518; Oct. 19; Gaz. vol. 219; p. 927.
- Gloves. C. A. Stevens. No. 101,883; Jan. 12; Gaz. vol. 210; p. 713.
- Gloves, Fine leather. The Heller Leather Company. No. 105,941; Aug. 31; Gaz. vol. 217; p. 1657.
- Gloves, hosiery, bloomers, and vests, Ladies' and misses' silk. Merrill Silk Company. No. 105,737; Aug. 17; Gaz. vol. 217; p. 1049.
- Gloves, Kid. James H. Dunham & Co. No. 104,445; June 1; Gaz. vol. 215; p. 317.
- Gloves, Leather. Carson Glove Co. No. 102,626; Feb. 16; Gaz. vol. 211; p. 953.
- Gloves, rompers, children's dresses, &c. Leather and fabric. Geo. Borgfeldt & Co. No. 102,670; Feb. 23; Gaz. vol. 211; p. 1255.
- Glue. Blinney & Smith Company. No. 107,439; Nov. 30; Gaz. vol. 220; p. 1715.
- Glue, adhesive tape, &c., Fireproof. H. W. Johns-Manville Co. No. 101,854; Jan. 12; Gaz. vol. 210; p. 713.
- Goggles. Julius King Optical Co. No. 106,238; Oct. 19; Gaz. vol. 219; p. 918.
- Goggles, eyeglasses, spectacles, and mountings therefor. F. A. Hardy & Co. No. 104,385; May 25; Gaz. vol. 214; p. 1316.
- Gold and gold-filled articles, Solid-. M. F. Bixler. No. 102,887; Mar. 2; Gaz. vol. 212; p. 323.
- Golf-balls. The B. F. Goodrich Company. No. 104,287; May 18; Gaz. vol. 214; p. 1021.
- Golf-balls. The Worthington Ball Company. Nos. 101,662-6; Jan. 5; Gaz. vol. 210; p. 394.
- Golf-balls. The Worthington Ball Company. Nos. 102,826-7; Feb. 23; Gaz. vol. 211; p. 1257.
- Golf-balls. The Worthington Ball Company. No. 105,005; June 29; Gaz. vol. 215; p. 1495.
- Golf-club heads. R. D. Pryde. No. 105,750; Aug. 17; Gaz. vol. 217; p. 1050.
- Golf-clubs. A. B. Ashforth. No. 105,638; Aug. 10; Gaz. vol. 217; p. 695.
- Goods and combinations of same in the piece, Certain named. G. S. Kelley. No. 101,955; Jan. 19; Gaz. vol. 210; p. 1060.
- Grain, dry-mash chick and stock feeds, and middlings, Poultry-. Tioga Mill & Elevator Company. No. 107,111; Nov. 9; Gaz. vol. 220; p. 674.
- Grains, Brewers' dried. Penn Grains and Feed Company. No. 104,074; Apr. 27; Gaz. vol. 213; p. 1443.
- Grains used as cattle feed. Atlantic Export Company. No. 104,195; May 11; Gaz. vol. 214; p. 677.
- Grape-juice. The Cleveland Fruit Juice Company. No. 105,527; Aug. 3; Gaz. vol. 217; p. 335.
- Grape-juice. Luyties Brothers. No. 106,786; Oct. 26; Gaz. vol. 219; p. 1234.
- Grape-juice. The Welch Grape Juice Co. No. 107,484; Dec. 7; Gaz. vol. 221; p. 345.
- Grape-juice and non-intoxicating beverage made from same. Franklin MacVeigh & Company. No. 107,271; Nov. 16; Gaz. vol. 220; p. 1039.
- Grapes, Fresh. San Joaquin County Table Grape Growers Ass'n. No. 102,450; Feb. 9; Gaz. vol. 211; p. 636.
- Grapes, Fresh table-. Cash Buyers Union. No. 104,595; June 8; Gaz. vol. 215; p. 661.
- Grapes, Fresh table-. Redbanks Orchard Co. No. 107,583; Dec. 14; Gaz. vol. 221; p. 731.
- Graphite, Pulverized. The United States Graphite Company. No. 105,679; Aug. 10; Gaz. vol. 217; p. 696.
- Grease, Axle-. The National Refining Company. No. 104,152; May 4; Gaz. vol. 214; p. 340.
- Grease, Axle-. Pierce Oil Corporation. No. 107,278; Nov. 16; Gaz. vol. 220; p. 1039.
- Grease, Cooking-. Corkran Hill & Co. No. 103,610; Apr. 6; Gaz. vol. 213; p. 357.
- Grease cups, guns, and fittings, Pressed-metal. City Iron Works & Machine Co. No. 104,792; June 15; Gaz. vol. 215; p. 974.
- Grease, Lubricating-. Motor Accessories, Incorporated. No. 104,224; May 11; Gaz. vol. 214; p. 678.
- Grease or dressing for softening leather, rubber, &c. H. W. Johns-Manville Co. No. 101,639; Jan. 5; Gaz. vol. 210; p. 393.
- Greases and lubricants, (rust-preventive.) M. R. Stroud. No. 103,574; Apr. 6; Gaz. vol. 213; p. 356.
- Greases and oils, Lubricating. New York Lubricating Oil Company. No. 106,793; Oct. 26; Gaz. vol. 219; p. 1234.
- Grinders and mills and coffee-mills, Corn. Landers, Frary & Clark. No. 106,112; Oct. 12; Gaz. vol. 219; p. 581.
- Grinding-machines. Greenfield Machine Company. No. 102,093; Jan. 26; Gaz. vol. 210; p. 1389.
- Grinding-mills. Bradley Pulverizer Co. No. 103,045; Mar. 16; Gaz. vol. 212; p. 1050.
- Grinding-mills and parts thereof. W. C. Meadows Mills Company. No. 105,270; July 13; Gaz. vol. 216; p. 660.
- Grinding, turning, and polishing machines. The Norma Company of America. No. 107,500; Dec. 7; Gaz. vol. 221; p. 346.
- Grindstones, scythe, oil, and whet stones. The Read Stone Co. No. 105,226; July 13; Gaz. vol. 216; p. 658.
- Groceries, Certain named dry. A. Ehlers. No. 104,607; June 8; Gaz. vol. 215; p. 661.
- Groceries, Dry. A. Ehlers. No. 105,433; July 27; Gaz. vol. 216; p. 1313.
- Guano-distributers, grain-drills, and peg-tooth harrows. Tifton Farm Tool Manufacturing Company. No. 105,568; Aug. 3; Gaz. vol. 217; p. 537.
- Guimpe-capes, laces, chiffons, &c. Ladies'. Timothy F. Crowley, Incorporated. No. 102,258; Feb. 2; Gaz. vol. 211; p. 279.
- Guimpes, boudoir-caps, vestees, collars, and cuffs, Manufactured. Phillips Boyd Co. No. 106,491; Oct. 19; Gaz. vol. 219; p. 926.
- Guimpes, vestees, chemisettes, collars, and cuffs. Sig Silberberg Company. No. 104,362; May 25; Gaz. vol. 214; p. 1315.
- Gum and candy, Chewing-. Frank H. Fleer Corporation. No. 104,506; June 1; Gaz. vol. 215; p. 319.
- Gum, Chewing-. American Chic Company. No. 102,242; Feb. 2; Gaz. vol. 211; p. 279.

- Gum, Chewing-. The Bee Bee Confection Company. No. 104,824; June 22; Gaz. vol. 215; p. 1257.
- Gum, Chewing-. W. C. Bidlack. No. 102,705; Feb. 23; Gaz. vol. 211; p. 1256.
- Gum, Chewing-. Bishop & Company. No. 103,885; Apr. 20; Gaz. vol. 213; p. 1112.
- Gum, Chewing-. C. W. Ebeling. No. 105,912; Aug. 24; Gaz. vol. 217; p. 1337.
- Gum, Chewing-. The Gem City Specialty Company. No. 107,325; Nov. 23; Gaz. vol. 220; p. 1367.
- Gum, Chewing-. Hershey Chocolate Company. No. 106,605; Oct. 26; Gaz. vol. 219; p. 1229.
- Gum, Chewing-. L. P. Larson, Jr. Company. No. 107,789; Dec. 28; Gaz. vol. 221; p. 1447.
- Gum, Chewing-. T. J. Mulcahy. No. 106,078; Oct. 5; Gaz. vol. 219; p. 267.
- Gum, Chewing-. C. Price. No. 104,336; May 18; Gaz. vol. 214; p. 1022.
- Gum, Chewing-. A. Q. Pryor. No. 103,033; Mar. 16; Gaz. vol. 212; p. 1050.
- Gum, Chewing-. Pulver Company. No. 104,571; June 1; Gaz. vol. 215; p. 321.
- Gum, Chewing-. J. A. Riggi. No. 103,678; Apr. 13; Gaz. vol. 213; p. 740.
- Gum, Chewing-. Sands-Buckley Company. No. 107,386; Nov. 23; Gaz. vol. 220; p. 1369.
- Gum, Chewing-. The Sterling Gum Company. No. 101,757; Jan. 12; Gaz. vol. 210; p. 710.
- Gum, Chewing-. The Sterling Gum Company. Nos. 103,186-7; Mar. 16; Gaz. vol. 212; p. 1054.
- Gum, Chewing-. The Sterling Gum Company. No. 103,685; Apr. 13; Gaz. vol. 213; p. 740.
- Gum, Chewing-. The Sterling Gum Company. No. 107,649; Dec. 14; Gaz. vol. 221; p. 733.
- Gum, Chewing-. The Sterling Gum Company. No. 107,823; Dec. 28; Gaz. vol. 221; p. 1448.
- Gum, Chewing-. A. M. Stockwell. No. 104,519; June 1; Gaz. vol. 215; p. 319.
- Gum, Chewing-. Texas Gum Company. No. 105,088; July 6; Gaz. vol. 216; p. 322.
- Gum, Chewing-. Texas Gum Co. No. 105,567; Aug. 3; Gaz. vol. 217; p. 336.
- Gum, Chewing-. United States Distributing Company. No. 102,821; Feb. 23; Gaz. vol. 211; p. 1259.
- Gum, Chewing-. Wm. Wrigley Jr. Company. Nos. 102,000-2; Jan. 19; Gaz. vol. 210; p. 1062.
- Gum, Chewing-. Wm. Wrigley, Jr. Company. No. 105,032; June 29; Gaz. vol. 215; p. 1496.
- Gum, Chewing-. Wm. Wrigley Jr. Company. No. 105,285; July 13; Gaz. vol. 216; p. 660.
- Gum, Chewing-. Wrigley's Limited. No. 105,284; July 13; Gaz. vol. 216; p. 600.
- Gum confection, Chewing-. The Helmet Company. No. 106,603; Oct. 26; Gaz. vol. 219; p. 1229.
- Gum, Laxative. L. H. Pinco. No. 104,478; June 1; Gaz. vol. 215; p. 318.
- Gum, Laxative chewing-. A. A. Krieg. No. 107,804; Dec. 28; Gaz. vol. 221; p. 1447.
- Gum, peanuts, Chewing-. Gold Band Chewing Gum Co. No. 102,877; Feb. 23; Gaz. vol. 211; p. 1261.
- Guns, Grease-. F. W. Shields. No. 107,482; Dec. 7; Gaz. vol. 221; p. 345.
- Gutta-percha sheets or strips of tissue-like dimension. Bishop Gutta-Percha Company. No. 106,287; Oct. 19; Gaz. vol. 219; p. 920.
- Gypsum plaster, Ground and calcined. Arizona Gypsum Plaster Co. No. 106,133; Oct. 12; Gaz. vol. 219; p. 582.
- Hacksaws. Bay State Saw & Tool Mfg. Co. No. 105,779; Aug. 17; Gaz. vol. 217; p. 1051.
- Hair and hair and fiber products for upholstering. Sulzberger & Sons Company. No. 104,034; Apr. 27; Gaz. vol. 213; p. 1442.
- Hair and hair and fiber products for upholstering. Sulzberger & Sons Company. Nos. 104,036-43; Apr. 27; Gaz. vol. 213; p. 1442.
- Hair-cleanser. J. J. Wittwer, Sr. No. 104,430; May 25; Gaz. vol. 214; p. 1317.
- Hair color-imparter and lotion, scalp-salve, and massage-cream. A. A. E. Rhodes. No. 105,870; Aug. 24; Gaz. vol. 217; p. 1336.
- Hair-color restorers and hair-removers. E. Tausig. No. 106,188; Oct. 12; Gaz. vol. 219; p. 584.
- Hair-color-restoring liquid. E. M. Bennett. No. 106,026; Sept. 14; Gaz. vol. 218; p. 600.
- Hair colorings and dyes. The Empire Regenerator Company. No. 104,716; June 15; Gaz. vol. 215; p. 971.
- Hair-coloring preparation. Philo Hay Specialties Co. No. 106,492; Oct. 19; Gaz. vol. 219; p. 926.
- Hair cream and tonic. E. Kaldy. No. 103,322; Mar. 30; Gaz. vol. 212; p. 1684.
- Hair-curling fluid. J. E. Snyder. No. 102,195; Jan. 26; Gaz. vol. 210; p. 1392.
- Hair-dressing. Tagalog & Tagalog. No. 106,812; Oct. 26; Gaz. vol. 219; p. 1235.
- Hair-dressing, Non-alcoholic. E. H. Conway. No. 103,200; Mar. 23; Gaz. vol. 212; p. 1353.
- Hair-fasteners. G. A. Gleeson. No. 106,961; Nov. 9; Gaz. vol. 220; p. 670.
- Hair grower and tonic and dandruff-destroyer. Liquid. The Dunchard Company. No. 105,045; July 6; Gaz. vol. 216; p. 321.
- Hair, Human. Human Hair Goods Industry. Nos. 101,739-40; Jan. 12; Gaz. vol. 210; p. 709.
- Hair, Human. Human Hair Goods Industry. No. 103,755; Apr. 13; Gaz. vol. 213; p. 742.
- Hair-invigorator and dandruff-killer. A. Leavitt. No. 103,066; Mar. 16; Gaz. vol. 212; p. 1051.
- Hair-invigorator and remedy for scalp diseases, &c. S. Fargo. No. 103,852; Apr. 20; Gaz. vol. 213; p. 1111.
- Hair-nets. A. J. Hague & Co. No. 102,922; Mar. 2; Gaz. vol. 212; p. 324.
- Hair-nets. Hyman & Oppenheim. No. 104,832; June 22; Gaz. vol. 215; p. 1257.
- Hair-nets. A. Klar. No. 105,021; June 29; Gaz. vol. 215; p. 1496.
- Hair-nets. Marlowe Manufacturing Company. No. 103,356; Mar. 30; Gaz. vol. 212; p. 1685.
- Hair-nets. New York Merchandise Co. No. 106,477; Oct. 19; Gaz. vol. 219; p. 925.
- Hair-nets. Rudolph Saenger Co. Nos. 104,573-6; June 1; Gaz. vol. 215; p. 321.
- Hair-nets. Rudolph Saenger Co. No. 106,508; Oct. 19; Gaz. vol. 219; p. 926.
- Hair-nets. Silverberg Import Co. No. 102,619; Feb. 16; Gaz. vol. 211; p. 953.
- Hair pomade or dressing. The Reliable Hair Store. No. 103,705; Apr. 13; Gaz. vol. 213; p. 741.
- Hair-restorer. G. Brunet. No. 101,909; Jan. 19; Gaz. vol. 210; p. 1059.
- Hair-restorer. H. Kallenberg, Jr. No. 104,288; May 18; Gaz. vol. 214; p. 1021.
- Hair restorer and tonic. B. H. Harris. No. 103,950; Apr. 20; Gaz. vol. 213; p. 1114.
- Hair-restorer, Medicinal. H. B. Shreve. No. 103,182; Mar. 16; Gaz. vol. 212; p. 1054.
- Hair, Restoring color of human. J. N. Kohlerman. No. 106,062; Sept. 21; Gaz. vol. 218; p. 873.
- Hair salves and tonics. M. Clisby. No. 101,917; Jan. 19; Gaz. vol. 210; p. 1059.
- Hair switches. National Hair Goods Company. No. 105,023; June 29; Gaz. vol. 215; p. 1496.
- Hair switches and wigs. M. Trolin. No. 102,885; Feb. 23; Gaz. vol. 211; p. 1261.
- Hair-tonic. Barclay & Co. No. 104,436; June 1; Gaz. vol. 215; p. 317.
- Hair-tonic. W. H. Black. No. 102,914; Mar. 2; Gaz. vol. 212; p. 324.
- Hair-tonic. F. W. Doebl. No. 103,051; Mar. 16; Gaz. vol. 212; p. 1050.
- Hair-tonic. M. B. Fareira. No. 103,024; Mar. 16; Gaz. vol. 212; p. 1050.
- Hair-tonic. J. S. Feldman. No. 105,048; July 6; Gaz. vol. 216; p. 321.
- Hair-tonic. M. Hickey. No. 103,813; Apr. 13; Gaz. vol. 213; p. 744.
- Hair-tonic. Kongo Products Company. No. 105,486; July 27; Gaz. vol. 216; p. 1314.
- Hair-tonic. J. M. McRae. No. 106,004; Sept. 14; Gaz. vol. 218; p. 599.
- Hair-tonic. A. Montana. No. 102,634; Feb. 16; Gaz. vol. 211; p. 953.
- Hair-tonic. J. D. Moore. No. 106,882; Nov. 2; Gaz. vol. 220; p. 345.
- Hair-tonic. Sallee & Shaughnessy Co. No. 105,559; Aug. 3; Gaz. vol. 217; p. 336.
- Hair-tonic. H. L. Tilly. No. 103,630; Apr. 6; Gaz. vol. 213; p. 358.
- Hair-tonic. B. Uberall. No. 101,658; Jan. 5; Gaz. vol. 210; p. 394.
- Hair-tonic. L. M. Yenny. No. 102,004; Jan. 19; Gaz. vol. 210; p. 1062.
- Hair tonic and dyes, face-cream, liniments, &c. Barclay & Co. No. 104,437; June 1; Gaz. vol. 215; p. 317.
- Hair-tonic and eczema. W. H. Black. No. 105,009; June 29; Gaz. vol. 215; p. 1495.
- Hair-tonic, Compound. J. Meletis. No. 107,625; Dec. 14; Gaz. vol. 221; p. 732.
- Hair-tonic, depilatories, cold-cream, and face-powders. Derma Viva Company. No. 102,067; Jan. 26; Gaz. vol. 210; p. 1389.
- Hair-tonic, perfumery, &c., Sage-quinin. John H. Wood Company. No. 101,814; Jan. 12; Gaz. vol. 210; p. 711.
- Hair-tonic, Quinin. Covatt and Smith. No. 104,933; June 29; Gaz. vol. 215; p. 1493.
- Hair tonic, restorer and pomade. H. A. Rosenberg. No. 104,548; June 1; Gaz. vol. 215; p. 320.
- Hair-tonics. Meyers and Theiner. No. 103,788; Apr. 13; Gaz. vol. 213; p. 743.
- Hair-tonics. F. A. Thompson & Co. No. 104,893; June 22; Gaz. vol. 215; p. 1259.
- Hair tonics and pomade, skin-lotion, &c. P. Bernardi. No. 105,577; Aug. 10; Gaz. vol. 217; p. 693.
- Hair-tonics and toilet creams. N. Y. International Chemical Co. No. 103,394; Mar. 30; Gaz. vol. 212; p. 1686.
- Hair-tonics, dandruff-lotions, pomade, &c. M. Lawlor. No. 101,643; Jan. 5; Gaz. vol. 210; p. 394.
- Hair-wavers. W. J. Brett. No. 105,910; Aug. 24; Gaz. vol. 217; p. 1337.
- Haircloth. Geo. S. Cox & Bro. No. 107,735; Dec. 28; Gaz. vol. 221; p. 1445.
- Ham and bacon, Prepared. A. Silz, Inc. No. 104,679; June 8; Gaz. vol. 215; p. 664.

Alphabetical list of trade-marks—Continued.

- Ham, bacon, and butter. Gunns Limited. No. 107,064; Nov. 9; Gaz. vol. 220; p. 673.
- Ham, bacon, and lard. The Wm. Focke's Sons Company. No. 104,052; Apr. 27; Gaz. vol. 213; p. 1443.
- Ham, bacon, shoulders, and lard. The John Hoffman Packing Co. No. 107,336; Nov. 23; Gaz. vol. 220; p. 1348.
- Ham, bacon, shoulders, picnics, &c. Paul O. Reymann Co. No. 106,677; Oct. 26; Gaz. vol. 219; p. 1231.
- Hams. J. C. C. Waldeck. No. 107,124; Nov. 9; Gaz. vol. 220; p. 675.
- Hams and bacon. Old Dutch Market. No. 106,891; Nov. 2; Gaz. vol. 220; p. 345.
- Hams and bacon, smoked and boiled. Ogden Packing & Provision Co. No. 106,990; Nov. 9; Gaz. vol. 220; p. 671.
- Hams, bacon, lard, sausage, beef, and pork. Arnold Brothers. No. 102,020; Jan. 26; Gaz. vol. 210; p. 1387.
- Hams, bacon, sausage, and lard. V. W. Joyner. No. 102,801; Feb. 23; Gaz. vol. 211; p. 1259.
- Hams, Smoked. A. Chmel, první česká tovární výroba a vývoz zboží uzenářského na Kr. Vinohraděch. No. 103,936; Apr. 20; Gaz. vol. 213; p. 1113.
- Hames. U. S. Hame Company. No. 103,453; Apr. 6; Gaz. vol. 213; p. 352.
- Hames and parts thereof. U. S. Hame Company. No. 105,914; Aug. 24; Gaz. vol. 217; p. 1337.
- Hammocks. W. H. Davis. No. 106,577; Oct. 26; Gaz. vol. 219; p. 1228.
- Handkerchiefs. T. W. Burgess. No. 107,601; Dec. 14; Gaz. vol. 221; p. 732.
- Handkerchiefs. Cluett, Peabody & Co. No. 103,092; Mar. 16; Gaz. vol. 212; p. 1052.
- Handkerchiefs. Harden Carter Co. No. 107,683; Dec. 21; Gaz. vol. 221; p. 1035.
- Handkerchiefs. Herrmann, Aukam & Co. No. 102,795; Feb. 23; Gaz. vol. 211; p. 1259.
- Handkerchiefs. Herrmann, Aukam & Co. No. 104,093; Apr. 27; Gaz. vol. 213; p. 1444.
- Handkerchiefs. Herrmann, Aukam & Co. No. 106,861; Nov. 2; Gaz. vol. 220; p. 344.
- Handkerchiefs. Titus Blatter and Company. Nos. 103,043-4; Mar. 16; Gaz. vol. 212; p. 1050.
- Handkerchiefs and embroidered linens. Henry Matier & Co. No. 103,171; Mar. 16; Gaz. vol. 212; p. 1054.
- Hardware and plumbers' supplies, Certain named. The Turner & Seymour Manufacturing Co. Nos. 102,851-2; Feb. 23; Gaz. vol. 211; p. 1260.
- Hardware and plumbing supplies, Certain named. The American Hardware Corporation. Nos. 104,138-9; May 4; Gaz. vol. 214; p. 339.
- Hardware and plumbing supplies, Certain named. The American Hardware Corporation. No. 107,821; Dec. 28; Gaz. vol. 221; p. 1447.
- Hardware and plumbing supplies, Certain named. Centadink Filters Co. No. 107,544; Dec. 7; Gaz. vol. 221; p. 347.
- Hardware and plumbing supplies, Certain named. Parker Wire Goods Company. No. 104,182; May 4; Gaz. vol. 214; p. 341.
- Hardware, plumbing, and steam-fitting supplies. The American Hardware Corporation. No. 105,521; Aug. 3; Gaz. vol. 217; p. 335.
- Hardware supplies, Certain named. The American Hardware Corporation. No. 104,281; May 18; Gaz. vol. 214; p. 1021.
- Hardware supplies, Certain named. Andrews Wire and Iron Works. No. 101,728; Jan. 12; Gaz. vol. 210; p. 709.
- Hardware supplies, Certain named. Empire Aluminum Manufacturing Co. No. 105,583; Aug. 10; Gaz. vol. 217; p. 693.
- Hardware supplies, Certain named. Geuder, Paeschke & Frey Co. No. 103,059; Mar. 16; Gaz. vol. 212; p. 1051.
- Hardware supplies, Certain named. A. Hering. No. 103,949; Apr. 20; Gaz. vol. 213; p. 1114.
- Hardware supplies, Certain named. Sargent & Company. No. 104,294; May 18; Gaz. vol. 214; p. 1021.
- Hardware supplies, Certain named. The Turner & Seymour Manufacturing Co. No. 107,300; Nov. 16; Gaz. vol. 220; p. 1040.
- Harness or saddlery hardware and hames. The Steffens-Amberg Co. No. 103,803; Apr. 13; Gaz. vol. 213; p. 744.
- Harness, saddles, horse clothing and equipment. Cottrell Saddlery Co. No. 105,041; July 6; Gaz. vol. 216; p. 321.
- Hat-linings, Adjustable. Lynat, Ltd. No. 104,543; June 1; Gaz. vol. 215; p. 320.
- Hat-pins, stick-pins, and watch-charms. J. H. Morris. No. 102,431; Feb. 9; Gaz. vol. 211; p. 636.
- Hats. J. T. Asch & Sons. No. 103,144; Mar. 16; Gaz. vol. 212; p. 1053.
- Hats. R. Cinelli & Sons. No. 105,456; July 27; Gaz. vol. 216; p. 1313.
- Hats. J. Elshewitz. No. 105,457; July 27; Gaz. vol. 216; p. 1314.
- Hats. The Fair. No. 103,261; Mar. 23; Gaz. vol. 212; p. 1355.
- Hats. The Fair. No. 104,256; May 11; Gaz. vol. 214; p. 679.
- Hats. French Feather Novelty & Hat Co. No. 102,921; Mar. 2; Gaz. vol. 212; p. 324.
- Hats. L. Galitzki. No. 101,938; Jan. 19; Gaz. vol. 210; p. 1060.
- Hats. Knox Hat Company. No. 106,628; Oct. 26; Gaz. vol. 219; p. 1229.
- Hats. Kolb Brothers & Hulsman Company. No. 105,860; July 20; Gaz. vol. 216; p. 1008.
- Hats. J. Smolin. No. 106,809; Oct. 26; Gaz. vol. 219; p. 1235.
- Hats and caps. Goldenbergs. No. 105,814; Aug. 17; Gaz. vol. 217; p. 1052.
- Hats and caps. Knox Hat Company. No. 104,221; May 11; Gaz. vol. 214; p. 677.
- Hats and caps. Vassar Cap Co. No. 104,757; June 15; Gaz. vol. 215; p. 973.
- Hats and caps, Men's and boys'. Wallach Brothers. No. 102,317; Feb. 2; Gaz. vol. 211; p. 281.
- Hats. Braided. Nihon Natsubo Kabushiki Kaisha. No. 106,794; Oct. 26; Gaz. vol. 219; p. 1234.
- Hats, caps, coats, shirts, &c. August E. Steffen Company. No. 103,184; Mar. 16; Gaz. vol. 212; p. 1054.
- Hats, caps, gloves, mittens, and sweater-coats. Western Hat & Manufacturing Company. No. 103,252; Mar. 23; Gaz. vol. 212; p. 1354.
- Hats, Cleaning and bleaching compound for Panama. W. M. and H. Seigel. No. 107,205; Nov. 16; Gaz. vol. 220; p. 1037.
- Hats, Ladies'. Chicago Hat Manufacturing and Bleaching Company. No. 107,548; Dec. 7; Gaz. vol. 221; p. 347.
- Hats, Ladies'. A. L. Howitz & Co. No. 104,686; June 8; Gaz. vol. 215; p. 664.
- Hats, Ladies'. P. Lieberman. No. 104,460; June 1; Gaz. vol. 215; p. 317.
- Hats, Ladies' and children's. Greenberg & Lave. No. 103,604; Apr. 6; Gaz. vol. 213; p. 357.
- Hats, overcoats, gloves, caps, &c. Collins & Fairbanks Co. No. 105,314; July 20; Gaz. vol. 216; p. 1007.
- Hats, sun and baby bonnets, dust and mackinaw caps. Sun-. The Winget Manufacturing Co. No. 105,571; Aug. 3; Gaz. vol. 217; p. 537.
- Hats, Trimmed and untrimmed. Sternberger-Gerber Co. No. 107,651; Dec. 14; Gaz. vol. 221; p. 733.
- Headache and neuralgia. L. F. Christman. No. 107,826; Dec. 28; Gaz. vol. 221; p. 1448.
- Headlight-lens, Automobile. H. W. Johns-Manville Co. No. 101,951; Jan. 19; Gaz. vol. 210; p. 1060.
- Heaters, boilers, ranges, stoves, &c. Richardson & Boynton Company. No. 103,732; Apr. 13; Gaz. vol. 213; p. 742.
- Heaters, Electric. Electrical Steam Radiator Co. No. 103,284; Mar. 30; Gaz. vol. 212; p. 1683.
- Heaters, Steam water-. J. J. Liebert. No. 106,767; Oct. 26; Gaz. vol. 219; p. 1234.
- Heating and lighting apparatus and attachments therefor, Certain named. The Baltimore Gas Appliance & Mfg. Co. No. 102,595; Feb. 16; Gaz. vol. 211; p. 952.
- Heating apparatus and parts thereof, Certain named. International Heater Company. No. 107,339; Nov. 23; Gaz. vol. 220; p. 1368.
- Heating, lighting, and ventilating apparatus, not including electrical apparatus, Certain named. American Blower Company. No. 107,720; Dec. 21; Gaz. vol. 221; p. 1036.
- Heating systems, Vapor, steam, and vacuum. M. E. Bell. No. 107,594; Dec. 14; Gaz. vol. 221; p. 731.
- Heels and rubber inserts for leather heels, Leather and rubber. E. W. Burt & Company. No. 105,783; Aug. 17; Gaz. vol. 217; p. 1051.
- Heels, Cushion-. C. W. Strohbeck. No. 104,997; June 29; Gaz. vol. 215; p. 1495.
- Herrings in barrels, Pickled. A. Wood & Son. No. 104,580; June 1; Gaz. vol. 215; p. 321.
- Hinges, spiral springs, metal washers for nuts and bolts, &c. Daimler-Motoren-Gesellschaft. No. 103,611; Apr. 6; Gaz. vol. 213; p. 357.
- Hog-cholera compound. Oden and Son. No. 107,188; Nov. 16; Gaz. vol. 220; p. 1036.
- Hog-cholera preparation. Kol-Isk Kure Kompany. No. 107,788; Dec. 28; Gaz. vol. 221; p. 1447.
- Hog-cholera, Preparation for. C. E. Teeter. No. 106,381; Oct. 19; Gaz. vol. 219; p. 923.
- Hog-cholera serum and hog-cholera virus. Anti-. H. Statter. No. 103,921; Apr. 20; Gaz. vol. 213; p. 1113.
- Hog-cholera serum and virus. Anti-. The Royal Serum Company. No. 106,259; Oct. 19; Gaz. vol. 219; p. 919.
- Hog-tonic. E. Gamblin. No. 106,958; Nov. 9; Gaz. vol. 220; p. 670.
- Hog tonic and cholera preventive. Brown & Pattison. No. 106,833; Nov. 2; Gaz. vol. 220; p. 343.
- Honey, Lekas and Drivas. No. 106,637; Oct. 26; Gaz. vol. 219; p. 1230.
- Honey. J. Vanden Berg. No. 107,236; Nov. 16; Gaz. vol. 220; p. 1038.
- Honey and cane-syrup. R. Deignan. No. 104,447; June 1; Gaz. vol. 215; p. 317.
- Hoof-pads. The Toronto Rubber Co. No. 101,759; Jan. 12; Gaz. vol. 210; p. 710.
- Hoof-protectors, Fiber. Rutherford Rubber Company. No. 104,233; May 11; Gaz. vol. 214; p. 678.
- Hooks and eyes. The American Pin Company. No. 102,349; Feb. 9; Gaz. vol. 211; p. 633.

- Hooks, Metal coat or hat. J. C. Metzger. No. 105,022; June 29; Gaz. vol. 215; p. 1496.
- Horns, whistles, chimes, &c. Barco Brass & Joint Co. No. 102,596; Feb. 16; Gaz. vol. 211; p. 952.
- Horological indicators. H. H. King. No. 105,033; June 29; Gaz. vol. 215; p. 1496.
- Horological indicators. Sentinel Clock Co. No. 104,995; June 29; Gaz. vol. 215; p. 1495.
- Horological indicators. Sentinel Clock Co. No. 106,372; Oct. 19; Gaz. vol. 219; p. 922.
- Horse-pads. Western Felt Works. No. 102,551; Feb. 9; Gaz. vol. 211; p. 639.
- Horse-powers, windlasses, vises, &c. Flint and Walling Manufacturing Co. No. 105,015; June 29; Gaz. vol. 215; p. 1495.
- Horse-radish and mixture of horse-radish and mustard. F. Yunker. No. 102,238; Jan. 26; Gaz. vol. 210; p. 1394.
- Horsehoe-calks. Challoner Co. No. 105,890; Aug. 24; Gaz. vol. 217; p. 1336.
- Horseshoes. The International Horse Shoe Co. No. 107,340; Nov. 23; Gaz. vol. 220; p. 1368.
- Horseshoes. McCormack & Rimbach. No. 102,614; Feb. 16; Gaz. vol. 211; p. 952.
- Hose. Wheeler & Motter Mercantile Company. No. 105,769; Aug. 17; Gaz. vol. 217; p. 1050.
- Hose, Fabric and rubber. The Republic Rubber Company. No. 105,756; Aug. 17; Gaz. vol. 217; p. 1050.
- Hose, Infants'. Hub Hosiery Mills. No. 103,386; Mar. 30; Gaz. vol. 212; p. 1686.
- Hose, Infants'. Hub Hosiery Mills. No. 104,562; June 1; Gaz. vol. 215; p. 321.
- Hose ironing and drying machines. J. O. V. Stettin. No. 107,212; Nov. 16; Gaz. vol. 220; p. 1037.
- Hose, Linen. Charles Neidner's Sons Co. Nos. 107,628-30; Dec. 11; Gaz. vol. 221; p. 732.
- Hose, Men's and ladies'. Stuart, Milliken & Co. No. 103,628; Apr. 6; Gaz. vol. 213; p. 358.
- Hose, Men's half-. Consolidated Knitting and Spinning Mills. No. 102,678; Feb. 23; Gaz. vol. 211; p. 1255.
- Hose-supporters. Kabo Corset Company. No. 106,622; Oct. 26; Gaz. vol. 219; p. 1229.
- Hose-supporters. The Warner Brothers Company. No. 103,834; Apr. 13; Gaz. vol. 213; p. 745.
- Hosiery. Berkshire Knitting Mills. No. 102,647; Feb. 16; Gaz. vol. 211; p. 953.
- Hosiery. Bibb Manufacturing Company. No. 107,832; Dec. 28; Gaz. vol. 221; p. 1448.
- Hosiery. Bloomingdale Bros. No. 106,399; Oct. 19; Gaz. vol. 219; p. 923.
- Hosiery. Carolina Mills Co. No. 103,223; Mar. 23; Gaz. vol. 212; p. 1353.
- Hosiery. Chicago-Kenosha Hosiery Co. No. 102,509; Feb. 9; Gaz. vol. 211; p. 638.
- Hosiery. C. Chipman's Sons. No. 101,916; Jan. 19; Gaz. vol. 210; p. 1059.
- Hosiery. J. J. Cohen. No. 107,514; Dec. 7; Gaz. vol. 221; p. 346.
- Hosiery. Concordia Silk Hosiery Company. No. 106,569; Oct. 26; Gaz. vol. 219; p. 1228.
- Hosiery. Davis Hosiery Mills. Nos. 103,095-6; Mar. 16; Gaz. vol. 212; p. 1052.
- Hosiery. Defiance Sock Mills. No. 105,316; July 20; Gaz. vol. 216; p. 1007.
- Hosiery. Durham Hosiery Mills. No. 102,382; Feb. 9; Gaz. vol. 211; p. 634.
- Hosiery. Durham Hosiery Mills. No. 104,446; June 1; Gaz. vol. 215; p. 317.
- Hosiery. John M. Given, Inc. No. 105,688; Aug. 10; Gaz. vol. 217; p. 696.
- Hosiery. H. Harris. No. 107,421; Nov. 23; Gaz. vol. 220; p. 1370.
- Hosiery. E. A. Hirner. No. 105,209; July 13; Gaz. vol. 216; p. 658.
- Hosiery. Holeproof Hosiery Co. No. 104,940; June 20; Gaz. vol. 215; p. 1493.
- Hosiery. Holeproof Hosiery Co. No. 106,610; Oct. 26; Gaz. vol. 219; p. 1229.
- Hosiery. Holeproof Hosiery Co. No. 107,819; Dec. 28; Gaz. vol. 221; p. 1447.
- Hosiery. Illinois Knitting Company. No. 103,896; Apr. 20; Gaz. vol. 213; p. 1112.
- Hosiery. Interwoven Stocking Company. No. 105,661; Aug. 10; Gaz. vol. 217; p. 695.
- Hosiery. W. B. Kohlman. No. 104,069; Apr. 27; Gaz. vol. 213; p. 1443.
- Hosiery. S. H. Kress and Company. Nos. 103,461-70; Apr. 6; Gaz. vol. 213; pp. 352-3.
- Hosiery. S. H. Kress & Company. No. 106,631; Oct. 26; Gaz. vol. 219; p. 1229.
- Hosiery. S. H. Kress & Company. Nos. 106,774-81; Oct. 26; Gaz. vol. 219; p. 1234.
- Hosiery. Milwaukee Hosiery Company. No. 107,862; Nov. 23; Gaz. vol. 220; p. 1368.
- Hosiery. Novelty Hosiery Company. No. 102,436; Feb. 9; Gaz. vol. 211; p. 636.
- Hosiery. Parker Hosiery Mill & Dye Works. No. 105,470; July 27; Gaz. vol. 216; p. 1314.
- Hosiery. Pasquotank Hosiery Company. No. 102,724; Feb. 23; Gaz. vol. 211; p. 1256.
- Hosiery. Richmond Hosiery Mills. Nos. 107,635-6; Dec. 14; Gaz. vol. 221; p. 733.
- Hosiery. Ritter Hosiery Company. No. 102,310; Feb. 2; Gaz. vol. 211; p. 281.
- Hosiery. J. H. Semel & Co. No. 104,399; May 25; Gaz. vol. 214; p. 1316.
- Hosiery. Stork Brothers. No. 103,334; Mar. 30; Gaz. vol. 212; p. 1684.
- Hosiery. Taubel Bros. No. 101,987; Jan. 19; Gaz. vol. 210; p. 1061.
- Hosiery. E. M. Townsend & Co. No. 103,132; Mar. 16; Gaz. vol. 212; p. 1053.
- Hosiery. True Shape Hosiery Company. No. 102,211; Jan. 26; Gaz. vol. 210; p. 1393.
- Hosiery. A. V. Victorius Co. No. 104,894; June 22; Gaz. vol. 215; p. 1259.
- Hosiery. J. P. Voorhees. Nos. 106,067-70; Sept. 28; Gaz. vol. 218; p. 1153.
- Hosiery and stockings. Bennington Hosiery Company. No. 102,028; Jan. 26; Gaz. vol. 210; p. 1387.
- Hosiery and underwear. Picador Hosiery Company. No. 105,421; July 20; Gaz. vol. 216; p. 1010.
- Hosiery-drying forms. Paramount Metal Form Drying Company. No. 101,973; Jan. 19; Gaz. vol. 210; p. 1061.
- Hosiery, hats, caps, dresses, &c. The Tiny Togs Company. No. 107,587; Dec. 14; Gaz. vol. 221; p. 731.
- Hosiery, Infants' and misses'. J. W. Fussner. No. 107,060; Nov. 9; Gaz. vol. 220; p. 673.
- Hosiery, Misses'. Parker Hosiery Mill & Dye Works. Nos. 106,666-7; Oct. 26; Gaz. vol. 219; p. 1230.
- Hosiery, sweaters, and knitted underwear. Lastlong Underwear Co. No. 107,181; Nov. 16; Gaz. vol. 220; p. 1036.
- Household utensils, Certain named. The Geo. H. Bowman Company. No. 104,415; May 25; Gaz. vol. 214; p. 1317.
- Houses, Knockdown. North American Construction Company. No. 103,962; Apr. 20; Gaz. vol. 213; p. 1114.
- Humidifiers. Acme Moistener & Mfg. Co. No. 107,039; Nov. 9; Gaz. vol. 220; p. 672.
- Humidifiers, Cigar-show-case. Lobelhe Manufacturing Company. No. 106,161; Oct. 12; Gaz. vol. 219; p. 583.
- Humus. Prepared inoculated. J. T. Caldwell. No. 106,295; Oct. 19; Gaz. vol. 219; p. 920.
- Hydrogen peroxid in solid form. Firm of E. Merck. No. 103,758; Apr. 13; Gaz. vol. 213; p. 742.
- Hypodermic appliances. G. R. Schimmel. No. 105,753; Aug. 17; Gaz. vol. 217; p. 1050.
- Ice-cream. Stallknecht Ice Cream Corporation. No. 106,516; Oct. 19; Gaz. vol. 219; p. 927.
- Ice-cream and ice-cream cones. Blue Seal Ice Cream Co. No. 101,908; Jan. 19; Gaz. vol. 210; p. 1059.
- Ice-cream and water-ices. Fussell Ice Cream Co. No. 107,608; Dec. 14; Gaz. vol. 221; p. 732.
- Ice-cream and water-ices. Fussell Ice Cream Co. No. 107,843; Dec. 28; Gaz. vol. 221; p. 1448.
- Ice-cream cones. Chapin-Sacks Manufacturing Co. No. 107,052; Nov. 9; Gaz. vol. 220; p. 673.
- Ice-cream cones. Roberts Cone Manufacturing Co. No. 107,099; Nov. 9; Gaz. vol. 220; p. 674.
- Ice-cream-sandwich machines. C. R. McDonald. No. 104,912; June 22; Gaz. vol. 215; p. 1259.
- Ice-cream, sherbets, and ices. George T. Budd Company. No. 103,993; Apr. 27; Gaz. vol. 213; p. 1441.
- Ice picks and chisels, kitchen spatulas and knives, &c. The W. G. Browne Mfg. Co. No. 101,730; Jan. 12; Gaz. vol. 210; p. 709.
- Incandescent bulbs. E. J. Deuth. No. 104,252; May 11; Gaz. vol. 214; p. 678.
- Incense. F. K. James Company. No. 107,709; Dec. 21; Gaz. vol. 221; p. 1036.
- Incrustation-preventer and scale-remover. American Mfg. Sales Company. No. 106,925; Nov. 9; Gaz. vol. 220; p. 669.
- Incubator. Radio-Round Incubator Co. No. 104,480; June 1; Gaz. vol. 215; p. 318.
- Incubators. Spratts Patent (America). No. 106,082; Oct. 5; Gaz. vol. 219; p. 267.
- Incubators and brooders. A. W. Bessey. No. 107,237; Nov. 16; Gaz. vol. 220; p. 1038.
- Index boxes, Card-. Tower Manufacturing & Novelty Co. No. 104,852; June 22; Gaz. vol. 215; p. 1258.
- Inhalants in ampuls. Volatile. Eli Lilly and Company. No. 106,982; Nov. 9; Gaz. vol. 220; p. 671.
- Inhalation apparatuses. E. P. Dieseldorff. No. 102,937; Mar. 2; Gaz. vol. 212; p. 324.
- Inhaler devices. G. O. Ferguson. No. 107,573; Dec. 14; Gaz. vol. 221; p. 731.
- Ink, Printing-. American Rotogravure Company. No. 102,015; Jan. 26; Gaz. vol. 210; p. 1387.
- Ink, Writing-. Taylor Chemical Co. No. 104,957; June 29; Gaz. vol. 215; p. 1494.
- Inks and inking-pads, Rubber-stamp. Fulton Rubber Type Co. No. 103,383; Mar. 30; Gaz. vol. 212; p. 1686.
- Inks, Fluid. Scribblers Ink & Paste Manufacturing Company. No. 106,687; Oct. 26; Gaz. vol. 219; p. 1231.
- Inks, Lithographing, printing, and engraving. Chas. Eneu Johnson & Co. No. 102,385; Feb. 9; Gaz. vol. 211; p. 635.
- Insect-extermimating preparation. F. A. Pickering. No. 106,896; Nov. 2; Gaz. vol. 220; p. 345.
- Insect-exterminator and porous holders therefor. Shoemaker & Busch. No. 102,868; Feb. 23; Gaz. vol. 211; p. 1261.

Alphabetical list of trade-marks—Continued.

- Insecticide. H. C. Dusenberry, Inc. No. 104,900; June 22; Gaz. vol. 215; p. 1259.
- Insecticide. S. Kidd. No. 104,733; June 15; Gaz. vol. 215; p. 972.
- Insecticide. E. Leech. No. 104,736; June 15; Gaz. vol. 215; p. 972.
- Insecticides. M. Gianella. No. 105,813; Aug. 17; Gaz. vol. 217; p. 1052.
- Insecticides. M. G. Gibbs. No. 105,262; July 13; Gaz. vol. 216; p. 659.
- Insecticide. C. E. Kenyon. No. 106,110; Oct. 12; Gaz. vol. 219; p. 581.
- Insecticide. Smith, Kline & French Co. No. 103,801; Apr. 13; Gaz. vol. 213; p. 744.
- Insecticide, disinfectant, and deoderizer. The B. & C. Sales Co. No. 106,197; Oct. 19; Gaz. vol. 219; p. 917.
- Insecticide, germicide, &c., and liquid for destruction of bedbugs, ants, &c. W. F. Oakley. No. 107,129; Nov. 9; Gaz. vol. 220; p. 675.
- Insecticide, germicide, antiseptic, and disinfectant. Van Antwerp's Drug Corporation. No. 106,709; Oct. 26; Gaz. vol. 219; p. 1232.
- Insecticides. American Industrial Laboratory. No. 106,540; Oct. 26; Gaz. vol. 219; p. 1227.
- Insecticides and disinfectants. The Worrell Mfg. Co. No. 105,683; Aug. 10; Gaz. vol. 217; p. 696.
- Insecticides and fungicides. Ansbacher Insecticide Co. No. 104,366; May 25; Gaz. vol. 214; p. 1315.
- Insecticides and fungicides. Ansbacher Insecticide Co. No. 104,695; June 15; Gaz. vol. 215; p. 971.
- Insecticides and preventives to ward off attacks of insects. The Hall-Van Gorder Company. No. 107,552; Dec. 7; Gaz. vol. 221; p. 347.
- Insecticides and rodent-poisons. John Opitz, Inc. No. 107,368; Nov. 23; Gaz. vol. 220; p. 1369.
- Insecticides and rodent-poisons. John Opitz. No. 107,857; Dec. 28; Gaz. vol. 221; p. 1449.
- Insecticides, roach powders, rat and mice poisons, &c. F. Kopitzke. No. 103,293; Mar. 30; Gaz. vol. 212; p. 1683.
- Insects. Liquid and powder for the destruction of. W. Branson. No. 105,993; Sept. 14; Gaz. vol. 218; p. 599.
- Instep-arch supports. The Scholl Manufacturing Co. No. 102,764; Feb. 23; Gaz. vol. 211; p. 1258.
- Instruction-boards having shiftable characters. The Fox Novelty Company. No. 106,591; Oct. 26; Gaz. vol. 219; p. 1228.
- Instruments of precision and parts thereof. The Norma Company of America. No. 107,499; Dec. 7; Gaz. vol. 221; p. 346.
- Insulated wire and cables. The Whitney Blake Company. No. 106,128; Oct. 12; Gaz. vol. 219; p. 582.
- Insulating material. Keystone Hair Insulator Co. Nos. 102,285-6; Feb. 2; Gaz. vol. 211; p. 280.
- Insulating material for steel cars, Heat and sound. Metals Company. No. 107,361; Nov. 23; Gaz. vol. 220; p. 1368.
- Insulating material with sound-deadening and heat and cold resisting properties. Ehret Magnesia Manufacturing Co. No. 105,346; July 20; Gaz. vol. 216; p. 1008.
- Insulating substance. Impregnating liquids for coating a material to render it available for. Redmanol Chemical Products Co. No. 104,751; June 15; Gaz. vol. 215; p. 972.
- Insulating-varnish. Sherwin-Williams Co. No. 104,808; June 15; Gaz. vol. 215; p. 974.
- Insulators for magnetos for ignition systems. Distributer-Boonton Rubber Manufacturing Company. No. 103,580; Apr. 6; Gaz. vol. 213; p. 356.
- Interlining. Haircloth. Recher & Co. No. 106,799; Oct. 26; Gaz. vol. 219; p. 1234.
- Iodids, Substitute for the. Bayer Company. No. 105,479; July 27; Gaz. vol. 216; p. 1314.
- Iodin. Sterilized solution of. Sharp & Dohme. No. 106,185; Oct. 12; Gaz. vol. 219; p. 584.
- Iodin, vinum and unguentum Iodin, &c. J. Bohlander. No. 107,411; Nov. 23; Gaz. vol. 220; p. 1370.
- Iron and steel. Forsbacka Jernverks Aktiebolag. No. 107,254; Nov. 16; Gaz. vol. 220; p. 1038.
- Iron and steel. Hofors Aktiebolag. No. 102,777; Feb. 23; Gaz. vol. 211; p. 1258.
- Iron and steel sheets, bars, and rods and wire. The Youngstown Sheet & Tube Company. No. 105,244; July 13; Gaz. vol. 216; p. 659.
- Irons, Gas-. L. Rosenbaum. No. 102,543; Feb. 9; Gaz. vol. 211; p. 639.
- Irons, Gas-. Strause Gas Iron Company. No. 105,763; Aug. 17; Gaz. vol. 217; p. 1050.
- Iron, Gas-. Strause Gas Iron Company. No. 106,520; Oct. 19; Gaz. vol. 219; p. 927.
- Ironing and washing machines, ironing-boards, tubs, wringers. Chicago Dryer Company. No. 103,196; Mar. 23; Gaz. vol. 212; p. 1353.
- Ironing-board covering. A. D. Rochau. No. 104,547; June 1; Gaz. vol. 215; p. 320.
- Irrigating apparatus and appliances, Certain named. Kellar-Thomason Company. No. 102,114; Jan. 26; Gaz. vol. 210; p. 1390.
- Jackets and sweater-coats, Cardigan. Bergman Knitting Mills. No. 106,027; Sept. 14; Gaz. vol. 218; p. 600.
- Jacks, jennets, mules, &c. J. E. Wright. No. 101,999; Jan. 19; Gaz. vol. 210; p. 1062.
- Jams, jellies, and marmalades. The Neuman & Schwiars Co. No. 102,536; Feb. 9; Gaz. vol. 211; p. 639.
- Jams, jellies, preserved fruits, teas, &c. Klauber Wangenheim Co. No. 104,540; June 1; Gaz. vol. 215; p. 320.
- Jewelry. The Alois Kohn Chain Co. No. 106,341; Oct. 19; Gaz. vol. 219; p. 921.
- Jewelry. The Baer & Wilde Co. No. 104,376; May 25; Gaz. vol. 214; p. 1316.
- Jewelry. L. I. Cohen. No. 103,093; Mar. 16; Gaz. vol. 212; p. 1052.
- Jewelry. The Kinney Company. No. 105,692; Aug. 10; Gaz. vol. 217; p. 696.
- Jewelry. Morris, Mann & Reilly. No. 107,852; Dec. 28; Gaz. vol. 221; p. 1448.
- Jewelry. Schein Brothers. No. 106,261; Oct. 19; Gaz. vol. 219; p. 919.
- Jewelry. F. Speidel Company. No. 102,314; Feb. 2; Gaz. vol. 211; p. 281.
- Jewelry. E. L. Spencer Company. No. 102,908; Mar. 2; Gaz. vol. 212; p. 323.
- Jewelry. C. Sydney Smith Company. No. 102,193; Jan. 26; Gaz. vol. 210; p. 1392.
- Jewelry and certain named articles made of or plated with precious metal. Elgin American Manufacturing Co. No. 103,053; Mar. 16; Gaz. vol. 212; p. 1050.
- Jewelry, Certain named. Henry W. Fischei & Sons. No. 107,705; Dec. 21; Gaz. vol. 221; p. 1036.
- Jewelry, Certain named articles of. Novagem Jewel Company. No. 106,250; Oct. 19; Gaz. vol. 219; p. 918.
- Jewelry, gold, silver, and table ware, diamonds. J. Castenberg & Son. No. 107,512; Dec. 7; Gaz. vol. 221; p. 346.
- Jewelry, Pearl. B. Altman & Co. No. 105,635; Aug. 10; Gaz. vol. 217; p. 694.
- Joint cement, Metallic. Thomas & Bishop. No. 104,490; June 1; Gaz. vol. 215; p. 318.
- Journal published periodically, Trade. R. S. Kennedy. No. 106,049; Sept. 21; Gaz. vol. 218; p. 873.
- Journal, Trade. G. B. Armstrong. No. 103,336; Mar. 30; Gaz. vol. 212; p. 1685.
- Journal, Weekly trade. F. E. Saward. No. 106,512; Oct. 19; Gaz. vol. 219; p. 926.
- Juices and syrups and essences used with beverages, Certain. Moritz Löw Fabrik Ätherischer oele Essenzen und Farben. No. 103,354; Mar. 30; Gaz. vol. 212; p. 1685.
- Kerchiefs and handkerchiefs. J. Robinson & Company. Nos. 106,904-5; Nov. 2; Gaz. vol. 220; p. 345.
- Kid, Glazed. McNeely & Price. No. 102,334; Feb. 9; Gaz. vol. 211; p. 633.
- Kieselguhr, Crude, crushed, broken, &c. Kieselguhr Company of America. No. 105,542; Aug. 3; Gaz. vol. 217; p. 336.
- Knife-blades. Joseph Fahys & Company. No. 104,255; May 11; Gaz. vol. 214; p. 679.
- Knives and knife-blades. Nagle Re Blade Knife Company. No. 104,839; June 22; Gaz. vol. 215; p. 1257.
- Knives, Pocket, table, kitchen, and butcher. John Chaitillon & Sons. No. 105,187; July 13; Gaz. vol. 216; p. 657.
- Knit and woven union suits. The Imperial Underwear Company. No. 104,729; June 15; Gaz. vol. 215; p. 972.
- Knit cotton piece goods. A. O. Meyer. No. 101,861; Jan. 12; Gaz. vol. 210; p. 713.
- Knit goods. A. Bergman. No. 102,359; Feb. 9; Gaz. vol. 211; p. 634.
- Knit goods, Athletic. Hygienic Fleeced Underwear Company. No. 107,686; Dec. 21; Gaz. vol. 221; p. 1035.
- Knit sweater-coats, Cardigan jackets, and bathing-suits. Columbia Knitting Mills. No. 103,021; Mar. 16; Gaz. vol. 212; p. 1050.
- Knit underwear. J. J. Byron. No. 104,142; May 4; Gaz. vol. 214; p. 339.
- Knit underwear. Sakonnet Knitting Mills. No. 102,179; Jan. 26; Gaz. vol. 210; p. 1392.
- Knitted drawers. T. W. Rogers. No. 107,637; Dec. 14; Gaz. vol. 221; p. 733.
- Knitted garments. Fuld and Hatch Knitting Company. No. 106,323; Oct. 19; Gaz. vol. 219; p. 921.
- Knitted hosiery and underwear. H. and A. L. Cohen. No. 101,831; Jan. 12; Gaz. vol. 210; p. 712.
- Knitted, netted, and textile fabrics, Certain named. Sears, Roebuck and Co. No. 102,846; Feb. 23; Gaz. vol. 211; p. 1260.
- Knitted shirts, drawers, and union suits, Men's and boys'. The Faith Knitting Company. No. 102,272; Feb. 2; Gaz. vol. 211; p. 280.
- Knitted sweaters, mufflers, caps, and toques. The Monarch Knitting Company. No. 106,788; Oct. 26; Gaz. vol. 219; p. 1234.
- Knitted underclothing. R. Rowley & Co. No. 105,557; Aug. 3; Gaz. vol. 217; p. 336.
- Knitted underwear. Flayell Bros. No. 103,346; Mar. 30; Gaz. vol. 212; p. 1685.
- Knitted underwear. F. A. Patrick & Co. No. 101,749; Jan. 12; Gaz. vol. 210; p. 709.
- Knitted underwear. Ryff & Co. A. G. Strickwarenfabrik Bern. No. 101,795; Jan. 12; Gaz. vol. 210; p. 711.
- Knitted underwear. H. E. Schwarz. No. 107,017; Nov. 9; Gaz. vol. 220; p. 672.
- Knitted underwear. Union Mills. No. 103,133; Mar. 16; Gaz. vol. 212; p. 1053.

- Knitted underwear. Union Mills. Nos. 103,710-13; Apr. 13; Gaz. vol. 213; p. 741.
- Knitted underwear. Union Mills. No. 106,523; Oct. 19; Gaz. vol. 219; p. 927.
- Knitted underwear. Certain named. The N. L. Birge Sons Company. No. 104,197; May 11; Gaz. vol. 214; p. 677.
- Knitted underwear, hosiery and caps. The William Carter Company. No. 107,314; Nov. 23; Gaz. vol. 220; p. 1367.
- Knitted underwear, Ladies'. Cooper, Coate & Casey Dry Goods Co. No. 104,417; May 25; Gaz. vol. 214; p. 1317.
- Knitted underwear, Women's, misses', and children's. C. Gutmann & Co. No. 104,003; Apr. 27; Gaz. vol. 213; p. 1441.
- Knitted union suits. The Northwestern Knitting Company. No. 105,668; Aug. 10; Gaz. vol. 217; p. 696.
- Knitted vests, (outer garments.) Ladies'. Novelty Knitting Mills. No. 101,715; Jan. 5; Gaz. vol. 210; p. 396.
- Knitted washcloths. Electric Knitting Co. No. 107,825; Dec. 28; Gaz. vol. 221; p. 1448.
- Knitted washcloths and towels. Putnam Knitting Company. No. 103,207; Mar. 23; Gaz. vol. 212; p. 1353.
- Knives. The Thomas Manufacturing Company. No. 106,701; Oct. 26; Gaz. vol. 219; p. 1231.
- Knives, Hunting-. The Carlson-Lusk Hdwe. Co. No. 103,376; Mar. 30; Gaz. vol. 212; p. 1686.
- Knives, Pocket and pen. D. Divine & Sons. No. 103,647; Apr. 13; Gaz. vol. 213; p. 739.
- Knives, pruners, budders, and erasers, Pocket and kitchen. D. Divine & Son. No. 102,918; Mar. 2; Gaz. vol. 212; p. 324.
- Knives, scissors and shears. Landers, Frary & Clark. No. 102,120; Jan. 26; Gaz. vol. 210; p. 1390.
- Knobs, cleats, tubes, switch-bases, &c., Electrical. Illinois Electric Porcelain Co. No. 107,575; Dec. 14; Gaz. vol. 221; p. 731.
- Labels, adhesive stamps, calendars, &c. United Drug Company. No. 106,706; Oct. 26; Gaz. vol. 219; p. 1232.
- Lace edgings and insertions and ribbons. Friedberger-Aaron Manufacturing Company. No. 105,458; July 27; Gaz. vol. 216; p. 1314.
- Laces. W. W. Chace. No. 107,467; Dec. 7; Gaz. vol. 221; p. 345.
- Laces. Swiss Lace and Embroidery Co. No. 103,978; Apr. 20; Gaz. vol. 213; p. 1115.
- Laces, Shoe-. Providence Braid Company. No. 106,798; Oct. 26; Gaz. vol. 219; p. 1234.
- Lacing-tips. Joslin Mfg. Co. No. 106,616; Oct. 26; Gaz. vol. 219; p. 1229.
- Lacing-tips. Joslin Mfg. Co. Nos. 106,618-20; Oct. 26; Gaz. vol. 219; p. 1229.
- Lacing tips, Shoe and corset. Joslin Mfg. Co. No. 106,617; Oct. 26; Gaz. vol. 219; p. 1229.
- Lacquer, Book-. F. J. Barnard & Co. No. 105,576; Aug. 10; Gaz. vol. 217; p. 693.
- Lactic ferments. Anglo-American Pharmaceutical Company. No. 107,538; Dec. 7; Gaz. vol. 221; p. 347.
- Lactic ferments for treatment of the intestines and stomach. F. Roy. No. 105,558; Aug. 3; Gaz. vol. 217; p. 336.
- Ladder and stool, Combination step-. The E. T. Burrowes Company. No. 102,251; Feb. 2; Gaz. vol. 211; p. 279.
- Ladders. The John S. Tilley Ladders Co. No. 106,382; Oct. 19; Gaz. vol. 219; p. 923.
- Lamp-brackets, electrical signal, electric sign and lighting devices for automobiles, Combined. C. G. Mollan. No. 102,535; Feb. 9; Gaz. vol. 211; p. 639.
- Lamp-chimneys. The Mantle Lamp Company of America. No. 104,072; Apr. 27; Gaz. vol. 213; p. 1443.
- Lamp connections. Chicago Rubber Company. No. 103,890; Apr. 20; Gaz. vol. 213; p. 1112.
- Lamp glasses and globes. Macbeth Evans Glass Company. Nos. 106,165-6; Oct. 12; Gaz. vol. 219; p. 583.
- Lamp shades and globes, Glass. Lighting Studios Company. No. 105,067; July 6; Gaz. vol. 216; p. 322.
- Lamp supporting stands or supports, Electric-. Wallace Novelty Company. No. 105,474; July 27; Gaz. vol. 216; p. 1314.
- Lamps, Acetylene-. F. E. Baldwin. No. 107,044; Nov. 9; Gaz. vol. 220; p. 672.
- Lamps, Acetylene-. John Simmons Co. No. 105,876; Aug. 24; Gaz. vol. 217; p. 1336.
- Lamps and lanterns, generators and lighters for same, Oil and acetylene. Justrite Manufacturing Company. No. 101,953; Jan. 19; Gaz. vol. 210; p. 1060.
- Lamps and parts thereof, spark-plugs, lamp-adapters, &c., Electric. A. W. Rosen & Co. No. 107,529; Dec. 7; Gaz. vol. 221; p. 347.
- Lamps and stands, electric-light fixtures and brackets, Electric. Maxwell-Ray Company. No. 104,564; June 1; Gaz. vol. 215; p. 321.
- Lamps and their parts, Electric incandescent. Deutsche Gasgluehlicht Aktiengesellschaft (Auergesellschaft). No. 105,192; July 13; Gaz. vol. 216; p. 657.
- Lamps, burners, &c., Incandescent-mantle. The Mantle Lamp Company of America. No. 102,424; Feb. 9; Gaz. vol. 211; p. 636.
- Lamps, Electric. The Adams & Westlake Company. No. 102,993; Mar. 16; Gaz. vol. 212; p. 1049.
- Lamps, Electric incandescent. General Electric Company. No. 104,017; Apr. 27; Gaz. vol. 213; p. 1442.
- Lamps, Electric incandescent. General Electric Company. Nos. 104,169-70; May 4; Gaz. vol. 214; p. 340.
- Lamps, Electric signal-. International Signal Company. No. 103,266; Mar. 23; Gaz. vol. 212; p. 1355.
- Lamps, Gas, vapor, and oil. The Buckley-Newhall Company. No. 106,937; Nov. 9; Gaz. vol. 220; p. 669.
- Lamp globes, shades, reflectors, &c., Glass. Gillinder & Sons. No. 101,733; Jan. 12; Gaz. vol. 210; p. 709.
- Lamps, hangers and carbons for same, projectors, Arc-. Kandes Electric Company. No. 104,800; June 15; Gaz. vol. 215; p. 974.
- Lamps, illuminating-fixtures, and valves, and buoy-lanterns, Gas-. E. Schroeder Lamp Works. No. 103,270; Mar. 23; Gaz. vol. 212; p. 1355.
- Lamps, Incandescent. Westinghouse Lamp Company. No. 103,017; Mar. 16; Gaz. vol. 212; p. 1049.
- Lamps, Incandescent electric. Buchstaben-Lampen-Gessellschaft m. b. H. No. 103,555; Apr. 6; Gaz. vol. 213; p. 355.
- Lamps, Incandescent electric. Independent Lamp & Wire Company. No. 106,334; Oct. 19; Gaz. vol. 219; p. 921.
- Lamps, including burners, &c., Incandescent gas-. Weisbach Company. No. 105,882; Aug. 24; Gaz. vol. 217; p. 1336.
- Lamps, lanterns, gas-burners, &c. Ehrlich & Graetz. No. 101,927; Jan. 19; Gaz. vol. 210; p. 1060.
- Lamps, Miners'. J. S. Sherman. No. 102,191; Jan. 26; Gaz. vol. 210; p. 1392.
- Lamps or search-lights, Electric hand-. Niagara Searchlight Company. No. 105,221; July 13; Gaz. vol. 216; p. 658.
- Lamps, pocket flash-lights, &c., Incandescent electric. The Metalite Company. No. 107,822; Dec. 28; Gaz. vol. 221; p. 1448.
- Lantern-slides. The Vitaslide Company. No. 102,220; Jan. 26; Gaz. vol. 210; p. 1393.
- Lanterns and lamps, Electric. H. A. Woods. No. 102,775; Feb. 23; Gaz. vol. 211; p. 1258.
- Lanterns, arc-lamps, and appliances, Electric. Gebruder Siemens & Company. Nos. 105,198-9; July 13; Gaz. vol. 216; p. 657.
- Lanterns, Hot and cold blast tubular. R. E. Dietz Company. No. 106,752; Oct. 26; Gaz. vol. 219; p. 1233.
- Lap-robies. H. S. Z. Adler. No. 103,141; Mar. 16; Gaz. vol. 212; p. 1053.
- Lard. Old Dutch Market. No. 107,763; Dec. 28; Gaz. vol. 221; p. 1446.
- Lard. Rohe & Brother. No. 103,733; Apr. 13; Gaz. vol. 213; p. 742.
- Lard and salad-oil. Swift and Company. No. 102,590; Feb. 16; Gaz. vol. 211; p. 952.
- Lard, bacon, hams, boiled hams, canned and fresh fruits. Ogden Packing & Provision Co. No. 107,582; Dec. 14; Gaz. vol. 221; p. 731.
- Lard substitute. W. R. Grace & Co. No. 104,509; June 1; Gaz. vol. 215; p. 319.
- Lard substitute. The Southern Lard and Provision Company. No. 104,965; June 29; Gaz. vol. 215; p. 1494.
- Lasts. The Forbush Shoe Company. No. 103,726; Apr. 13; Gaz. vol. 213; p. 741.
- Lathes, saw-tables, &c., Engine, precision, and speed. Patterson, Gottfried & Hunter. No. 107,744; Dec. 28; Gaz. vol. 221; p. 1445.
- Lathing, Expanded-metal. Northwestern Expanded Metal Company. No. 102,153; Jan. 26; Gaz. vol. 210; p. 1391.
- Lathing, Expanded-metal. Northwestern Expanded Metal Company. Nos. 104,642-3; June 8; Gaz. vol. 215; p. 662.
- Lathing, metal for reinforcing concrete and cement, &c., Metal. The General Fireproofing Co. No. 102,087; Jan. 26; Gaz. vol. 210; p. 1389.
- Laundry blue, cream of tartar, baking-powder, &c. Gowan-Lenning-Brown Co. No. 101,632; Jan. 5; Gaz. vol. 210; p. 393.
- Laundry-iron heaters and soldering-furnaces, Gas. Sentinel Automatic Gas Appliance Co. No. 103,400; Mar. 30; Gaz. vol. 212; p. 1686.
- Laundry machines and appliances, Certain named. National Chemical Co. No. 105,271; July 13; Gaz. vol. 216; p. 660.
- Laundry-nets. Hooper Sons' Manufacturing Co. Nos. 105,727-8; Aug. 17; Gaz. vol. 217; p. 1049.
- Laxative. W. H. Black. No. 104,761; June 15; Gaz. vol. 215; p. 973.
- Laxative. Diamond Chemical Co. No. 101,836; Jan. 12; Gaz. vol. 210; p. 712.
- Laxative. I. Goldstein. No. 102,400; Feb. 9; Gaz. vol. 211; p. 635.
- Laxative. J. S. Jacobs. No. 102,110; Jan. 26; Gaz. vol. 210; p. 1390.
- Laxative. The Owl Drug Company. No. 106,252; Oct. 19; Gaz. vol. 219; p. 919.
- Laxative. E. G. Potter. No. 103,179; Mar. 16; Gaz. vol. 212; p. 1054.
- Laxative, Candy. Anthony Pharmacy. No. 105,575; Aug. 10; Gaz. vol. 217; p. 693.
- Laxative candy. J. Schlyen. No. 103,447; Apr. 6; Gaz. vol. 213; p. 352.
- Laxative compound. P. Reiss. No. 107,010; Nov. 9; Gaz. vol. 220; p. 671.

Alphabetical list of trade-marks—Continued.

- Laxative confection. Rite Specialty Company. No. 103,180; Mar. 16; Gaz. vol. 212; p. 1054.
- Laxative confection. W. L. Spoor. No. 107,647; Dec. 14; Gaz. vol. 221; p. 733.
- Laxative or purgative. The Liver Square Company. No. 101,961; Jan. 19; Gaz. vol. 210; p. 1061.
- Laxative syrup. National Remedy Company. No. 104,840; June 22; Gaz. vol. 215; p. 1257.
- Laxative tablets. The Sentanel Remedies Company. No. 101,721; Jan. 5; Gaz. vol. 210; p. 396.
- Laxative, Tonic. F. C. Galehouse. No. 103,948; Apr. 20; Gaz. vol. 213; p. 1114.
- Laxatives. B. D'Emo. No. 101,832; Jan. 12; Gaz. vol. 210; p. 712.
- Laxatives. Mission Chemical Company. No. 103,175; Mar. 16; Gaz. vol. 212; p. 1054.
- Laxatives. Mission Chemical Company. No. 103,245; Mar. 23; Gaz. vol. 212; p. 1354.
- Laxatives. Candy. E. Bolgar. No. 104,703; June 15; Gaz. vol. 215; p. 971.
- Laxatives, Tonic. N. Y. International chemical Co. No. 106,172; Oct. 12; Gaz. vol. 219; p. 583.
- Lead, Tempering. United Lead Company. No. 104,239; May 11; Gaz. vol. 214; p. 678.
- Leather. Perkins & McNeely. No. 107,728; Dec. 21; Gaz. vol. 221; p. 1036.
- Leather. H. Stockman. No. 103,977; Apr. 20; Gaz. vol. 213; p. 1115.
- Leather. Richard Young Company. No. 105,406; July 20; Gaz. vol. 216; p. 1010.
- Leather-dressing for shoes and slippers. Whittemore Bros. & Co. No. 106,387; Oct. 19; Gaz. vol. 219; p. 923.
- Leather-dressings. Colonial Works. No. 106,219; Oct. 19; Gaz. vol. 219; p. 918.
- Leather fabric, Substitute. P. Rielly & Son. No. 105,170; July 6; Gaz. vol. 216; p. 325.
- Leather, Finished. Ryan Leather Co. No. 107,481; Dec. 7; Gaz. vol. 221; p. 345.
- Leather flexing, breaking, and tempering machines and parts. The Basler Machinery Company. No. 106,140; Oct. 12; Gaz. vol. 219; p. 582.
- Leather, Furniture. A. H. Stone. No. 103,127; Mar. 16; Gaz. vol. 212; p. 1053.
- Leather, Glove, shoe, &c. Gloversville Leather Manufacturing Corporation. No. 103,232; Mar. 23; Gaz. vol. 212; p. 1354.
- Leather, Harness, saddle, and sole. Eagle Tannery. Nos. 102,074-5; Jan. 26; Gaz. vol. 210; p. 1389.
- Leather, Imitation. Neilson Brothers. No. 1,105,168; July 6; Gaz. vol. 216; p. 325.
- Leather, Manufactured. F. N. Kimball. No. 106,338; Oct. 19; Gaz. vol. 219; p. 921.
- Leather, Patent. Altenderfer Leather Company. No. 101,726; Jan. 12; Gaz. vol. 210; p. 709.
- Leather, Patent. Jersey Leather Company. No. 107,521; Dec. 7; Gaz. vol. 221; p. 346.
- Leather-preservative. P. C. McChesney. No. 102,136; Jan. 26; Gaz. vol. 210; p. 1391.
- Leather, Sole. J. M. Delaney & Co. No. 106,030; Sept. 14; Gaz. vol. 218; p. 600.
- Leather, Sole. J. W. & A. P. Howard & Co. No. 105,534; Aug. 3; Gaz. vol. 217; p. 335.
- Leather, Sole. G. C. Vaughan. No. 102,218; Jan. 26; Gaz. vol. 210; p. 1393.
- Leather, Sole. G. C. Vaughan. No. 103,739; Apr. 13; Gaz. vol. 213; p. 742.
- Leather-tanning. Haley-Hammond Company. No. 105,496; July 27; Gaz. vol. 216; p. 1315.
- Leather toppings. Peerless Kid Company. No. 107,694; Dec. 21; Gaz. vol. 221; p. 1035.
- Leather treated with a tempering solution. The Basler Machinery Co. No. 102,026; Jan. 26; Gaz. vol. 210; p. 1387.
- Leather, Unmanufactured. E. V. Gale Co. No. 104,421; May 25; Gaz. vol. 214; p. 1317.
- Leather, Unmanufactured. T. Janney & Co. No. 104,305; May 18; Gaz. vol. 214; p. 1021.
- Leather welting. McAdoo & Allen. Nos. 106,462-3; Oct. 19; Gaz. vol. 219; p. 925.
- Lemon-juice, Imitation. Root-Knight Co. No. 101,980; Jan. 19; Gaz. vol. 210; p. 1061.
- Lemons and oranges. P. Brucato. No. 105,311; July 20; Gaz. vol. 216; p. 1007.
- Lemons, oranges, grape-fruit, limes, and other citrus fruits. E. H. Spalding. Nos. 102,847-50; Feb. 23; Gaz. vol. 211; p. 1260.
- Lenses, Eyeglass. Baltimore Optical Company. No. 106,394; Oct. 19; Gaz. vol. 219; p. 923.
- Lenses for illuminating and signaling. Lamp and lantern. Corning Glass Works. No. 104,599; June 8; Gaz. vol. 215; p. 661.
- Lenses for scientific use and ophthalmic lenses. F. A. Hardy & Co. No. 103,287; Mar. 30; Gaz. vol. 212; p. 1683.
- Lenses for scientific use and ophthalmic lenses. F. A. Hardy & Co. No. 103,429; Apr. 6; Gaz. vol. 213; p. 351.
- Lenses for spectacles and eyeglasses. Optical. Woodard, Clarke & Co. No. 106,060; Sept. 21; Gaz. vol. 218; p. 873.
- Lenses, Ophthalmic. F. A. Hardy & Co. No. 104,218; May 11; Gaz. vol. 214; p. 677.
- Lenses, Ophthalmic. F. A. Hardy & Co. No. 105,815; Aug. 17; Gaz. vol. 217; p. 1052.
- Lenses, Spectacle and eyeglass. Globe Optical Company. No. 105,263; July 13; Gaz. vol. 216; p. 659.
- Letter and bill heads, statements, envelopes, &c. Arnold Printing Company. No. 102,021; Jan. 26; Gaz. vol. 210; p. 1387.
- Lettering-blocks, Sign-painters' and draftsmen's. A. Binger. No. 102,624; Feb. 16; Gaz. vol. 211; p. 953.
- Life-preservers. W. G. Richardson. No. 105,276; July 13; Gaz. vol. 216; p. 660.
- Life-saving coats and waistcoats. Buoyant. American Life-Saving Garment Company. No. 102,486; Feb. 9; Gaz. vol. 211; p. 637.
- Lighting apparatus and fixtures and supplies, Certain named. Westf. Gasglühlichtfabrik F. W. & Dr. C. Killing. No. 102,232; Jan. 26; Gaz. vol. 210; p. 1393.
- Lighting plant, Self-contained electric. The Bruston Electrical Co. No. 105,151; July 6; Gaz. vol. 216; p. 324.
- Lightning-rods, lightning-rod parts, fixtures, points, and ornaments. Cole Brothers Lightning Rod Company. Nos. 104,530-1; June 1; Gaz. vol. 215; p. 320.
- Lime. Hannibal Lime Company. No. 106,968; Nov. 9; Gaz. vol. 220; p. 670.
- Lime. The Kelley Island Lime & Transport Company. Nos. 107,425-7; Nov. 23; Gaz. vol. 220; p. 1370.
- Lime. The Kelley Island Lime & Transport Company. No. 107,554; Dec. 7; Gaz. vol. 221; p. 347.
- Lime. H. A. Smith. No. 104,891; June 22; Gaz. vol. 215; p. 1259.
- Lime, Hydrated. Kelley Island Lime & Transport Company. No. 107,555; Dec. 7; Gaz. vol. 221; p. 347.
- Linen, cotton, and mixed linen and cotton piece goods. Marshall Field & Company. No. 104,382; May 25; Gaz. vol. 214; p. 1316.
- Linen piece goods, house-linens, damask, &c. Henry Matier & Co. No. 103,108; Mar. 16; Gaz. vol. 212; p. 1052.
- Linens, cotton goods, &c. H. R. Hopkinson. No. 103,563; Apr. 6; Gaz. vol. 213; p. 356.
- Linens, castings, and forgings, Ball-mill. American Manganeese Steel Company. No. 106,726; Oct. 26; Gaz. vol. 219; p. 1232.
- Lining fabrics. S. M. Hexter & Company. No. 104,875; June 22; Gaz. vol. 215; p. 1258.
- Linings, Worsted. Leshner, Whitman & Co. No. 101,786; Jan. 12; Gaz. vol. 210; p. 710.
- Liniment. R. Brown. No. 104,862; June 22; Gaz. vol. 215; p. 1258.
- Liniment. S. Fargo. No. 102,748; Feb. 23; Gaz. vol. 211; p. 1257.
- Liniment. S. Fargo. No. 103,559; Apr. 6; Gaz. vol. 213; p. 356.
- Liniment. S. Fargo. No. 104,718; June 15; Gaz. vol. 215; p. 971.
- Liniment. S. Fargo. No. 106,311; Oct. 19; Gaz. vol. 219; p. 920.
- Liniment. A. Goldstein. No. 105,631; Aug. 10; Gaz. vol. 217; p. 694.
- Liniment. J. G. Grimes. No. 107,611; Dec. 14; Gaz. vol. 221; p. 732.
- Liniment. Halla Dagger Medicine Company. No. 106,153; Oct. 12; Gaz. vol. 219; p. 583.
- Liniment. W. L. Puckett. No. 102,172; Jan. 26; Gaz. vol. 210; p. 1392.
- Liniment. G. H. Smith. No. 105,083; July 6; Gaz. vol. 216; p. 322.
- Liniment. Smith, Kline & French Co. No. 103,797; Apr. 13; Gaz. vol. 213; p. 744.
- Liniment. Smith, Kline & French Co. No. 103,800; Apr. 13; Gaz. vol. 213; p. 744.
- Liniment. Henry Thayer & Company. No. 107,652; Dec. 14; Gaz. vol. 221; p. 733.
- Liniment. Animal and poultry. J. W. Blalze. No. 106,142; Oct. 12; Gaz. vol. 219; p. 582.
- Liniment for rheumatism, lumbago, and dandruff. M. Loftus. No. 105,487; July 27; Gaz. vol. 216; p. 1313.
- Liniment for the treatment of certain named diseases. J. H. Palmer. No. 102,297; Feb. 2; Gaz. vol. 211; p. 280.
- Liniment for treatment of certain named diseases and affections. M. L. Stefanski. No. 104,755; June 15; Gaz. vol. 215; p. 973.
- Liniment for varicose veins, rheumatism, sprains. C. Ribordy. No. 106,678; Oct. 26; Gaz. vol. 219; p. 1231.
- Liniment, Pain-allaying antiseptic. W. D. Markley. No. 102,613; Feb. 16; Gaz. vol. 211; p. 952.
- Liniment, Rheumatism. J. Norris. No. 106,054; Sept. 21; Gaz. vol. 218; p. 873.
- Liniments. M. Mazarian. No. 101,747; Jan. 12; Gaz. vol. 210; p. 709.
- Liniments. M. L. Mooney. No. 101,746; Jan. 12; Gaz. vol. 210; p. 709.
- Liniments for rheumatism, &c. G. G. Repasé. No. 102,930; Mar. 2; Gaz. vol. 212; p. 324.
- Liniments, ointments, laxative tablets, &c. C. H. M. Partridge. No. 103,117; Mar. 16; Gaz. vol. 212; p. 1052.
- Liniments, salves, and herb decoctions. V. Baudendistel & Son. No. 103,146; Mar. 16; Gaz. vol. 212; p. 1053.

- Linoleum. The Geo. W. Blabon Company. Nos. 102,361-2; Feb. 9; Gaz. vol. 211; p. 634.
- Linoleums. The Nairn Linoleum Co. No. 104,629; June 8; Gaz. vol. 215; p. 662.
- Linoleums. The Nairn Linoleum Co. No. 105,920; Aug. 24; Gaz. vol. 217; p. 1337.
- Liqueur. E. Godfree, Felton & Co. No. 104,508; June 1; Gaz. vol. 215; p. 319.
- Liqueur, Digestive. A. A. M. Caubrière. No. 102,372; Feb. 9; Gaz. vol. 211; p. 634.
- Liquid and salve for skin diseases. J. Langan. No. 106,160; Oct. 12; Gaz. vol. 219; p. 583.
- Liquor containing less than one-half of one per cent. alcohol. Malt. United States Brewing Co. of Chicago. No. 107,567; Dec. 7; Gaz. vol. 221; p. 348.
- Liquor, Fermented malt. Mission Brewing Company. No. 105,825; Aug. 17; Gaz. vol. 217; p. 1052.
- Locks and parts thereof and safes, Certain named. The American Hardware Corporation. Nos. 103,605-7; Apr. 6; Gaz. vol. 213; p. 357.
- Locks, latches, keys, padlocks, &c. Sargent & Company. No. 104,651; June 8; Gaz. vol. 215; p. 663.
- Locomotive-engine parts, Finished. The Locomotive Finished Material Co. Nos. 105,602-3; Aug. 10; Gaz. vol. 217; p. 694.
- Long-cloth and cotton cloth. Sherman & Sons Company. No. 102,457; Feb. 9; Gaz. vol. 211; p. 637.
- Lotion for the skin. Tollet. Vel-o Manufacturing Co. No. 107,700; Dec. 21; Gaz. vol. 221; p. 1035.
- Lotion, Foot-. The Fox Chemical Company. No. 105,530; Aug. 3; Gaz. vol. 217; p. 335.
- Lotion. Mosquito-repelling. L. M. Wittenberger. No. 107,673; Dec. 14; Gaz. vol. 221; p. 734.
- Lotion, Skin-. M. and N. Co. No. 104,165; May 4; Gaz. vol. 214; p. 340.
- Lotion to be applied externally to man or beast. J. T. Paxton. No. 106,669; Oct. 26; Gaz. vol. 219; p. 1231.
- Lotions for chapped hands, lips, and face, &c. J. L. Polk. No. 103,177; Mar. 16; Gaz. vol. 212; p. 1054.
- Lotions. Skin, &c. The Zoz Chemical Company. No. 105,006; June 29; Gaz. vol. 215; p. 1495.
- Lozenges. Wm. Wrigley Jr. Company. No. 102,003; Jan. 19; Gaz. vol. 210; p. 1062.
- Lubricant. W. L. Day. No. 102,890; Mar. 2; Gaz. vol. 212; p. 323.
- Lubricant. Hisgen Brothers. No. 103,660; Apr. 13; Gaz. vol. 213; p. 739.
- Lubricant, Driving-chain. Powerlene Manufacturing Co. No. 105,609; Aug. 10; Gaz. vol. 217; p. 694.
- Lubricant for steam-engine cylinders. E. F. Houghton & Co. No. 107,847; Dec. 28; Gaz. vol. 221; p. 1448.
- Lubricants. H. A. Spiller. No. 107,808; Dec. 28; Gaz. vol. 221; p. 1447.
- Lubricants. A. Warrell. No. 101,659; Jan. 5; Gaz. vol. 210; p. 394.
- Lubricants. A. Warrell. Nos. 104,186-7; May 4; Gaz. vol. 214; p. 341.
- Lubricants for gears, compression-cups, and axles. Continental Asbestos Corporation. No. 105,650; Aug. 10; Gaz. vol. 217; p. 695.
- Lubricants, Gear-. Endurance Autoil Company. No. 102,077; Jan. 26; Gaz. vol. 210; p. 1389.
- Lubricants, oils, and greases. Speedelene Lubricant Company. Nos. 107,645-6; Dec. 14; Gaz. vol. 221; p. 733.
- Lumber. Hewitt-Lea-Funk Co. No. 103,812; Apr. 13; Gaz. vol. 213; p. 744.
- Lumber and millwork, Finished. The Pacific Lumber Company. No. 105,365; July 20; Gaz. vol. 216; p. 1008.
- Lye. E. Myers Lye Company. No. 102,979; Mar. 9; Gaz. vol. 212; p. 685.
- Lye. P. C. Tomson & Co. No. 105,881; Aug. 24; Gaz. vol. 217; p. 1336.
- Macaroni. The Hotaling-Warner Company. No. 106,612; Oct. 26; Gaz. vol. 219; p. 1229.
- Macaroni. The Huron Milling Company. No. 102,280; Feb. 2; Gaz. vol. 211; p. 280.
- Macaroni in packages. Beaumont Macaroni Company. No. 101,695; Jan. 5; Gaz. vol. 210; p. 395.
- Macaroni, olive-oil, cheese, &c. Vola Importing Company. No. 106,527; Oct. 19; Gaz. vol. 219; p. 927.
- Macaroni, spaghetti, and vermicelli. Skinner Manufacturing Company. No. 106,689; Oct. 26; Gaz. vol. 219; p. 1231.
- Macaroni, spaghetti, vermicelli, and noodles. E. Benzoni. No. 107,045; Nov. 9; Gaz. vol. 220; p. 67.
- Macaroni, spaghetti, vermicelli, and noodles. The John B. Canepa Company. No. 102,041; Jan. 26; Gaz. vol. 210; p. 1388.
- Machinery and parts thereof, Certain named. International Harvester Company of New Jersey. No. 101,780; Jan. 12; Gaz. vol. 210; p. 710.
- Machinery and parts thereof, Certain named. International Harvester Company. No. 103,349; Mar. 30; Gaz. vol. 212; p. 1685.
- Machinery and tools and parts thereof, Certain named. Aktiebolaget Svenska Kullagerfabriken. Nos. 103,634-5; Apr. 13; Gaz. vol. 213; p. 739.
- Machinery and tools and parts thereof, Certain named. The Brown Hoisting Machinery Company. No. 104,086; Apr. 27; Gaz. vol. 213; p. 1444.
- Machinery and tools and parts thereof, Certain named. J. H. Williams & Co. No. 104,112; Apr. 27; Gaz. vol. 213; p. 1444.
- Machinery and tools, Certain named. Massey-Harris Co. No. 107,358; Nov. 23; Gaz. vol. 220; p. 1368.
- Machinery and tools, Certain named. The Niles Tool Works Company. No. 103,566; Apr. 6; Gaz. vol. 213; p. 356.
- Machinery and tools, Certain named. J. V. Svensons Motorfabrik. No. 105,328; July 20; Gaz. vol. 216; p. 1007.
- Machinery and tools, Certain named. The Triumph Manufacturing Co. No. 103,076; Mar. 16; Gaz. vol. 212; p. 1057.
- Machinery, Certain named. Aerothrust Engine Company. No. 101,693; Jan. 5; Gaz. vol. 210; p. 395.
- Machinery, Certain named. Whitman Agricultural Company. No. 103,708; Apr. 13; Gaz. vol. 213; p. 741.
- Machinery, tools, and parts thereof. A/B B. A. Hjorth & Co. No. 105,533; Aug. 3; Gaz. vol. 217; p. 335.
- Machinery, tools, and parts thereof. Ingersoll-Rand Company. No. 105,537; Aug. 3; Gaz. vol. 217; p. 336.
- Machinery, tools, and parts thereof, Certain named. American Blower Company. No. 106,824; Nov. 2; Gaz. vol. 220; p. 343.
- Machinery, tools, and parts thereof, Certain named. Cambria Steel Company. No. 107,150; Nov. 13; Gaz. vol. 220; p. 1035.
- Machines and parts thereof, Certain named. International Harvester Company of New Jersey. No. 101,708; Jan. 5; Gaz. vol. 210; p. 396.
- Magazine-catalogue. Annual. Doubleday Page & Company. No. 103,874; Apr. 20; Gaz. vol. 213; p. 1112.
- Magazine, Monthly. American Manufacturing Co. No. 104,522; June 1; Gaz. vol. 215; p. 319.
- Magazine, Monthly. Boy Scouts of America. No. 106,403; Oct. 19; Gaz. vol. 219; p. 923.
- Magazine, Monthly. Cemetery Beautiful Publishing Company. No. 102,916; Mar. 2; Gaz. vol. 212; p. 324.
- Magazine, Monthly. C. R. Cook Paint Company. No. 104,816; June 15; Gaz. vol. 215; p. 974.
- Magazine, Monthly. Current Literature Publishing Company. No. 105,837; Aug. 24; Gaz. vol. 217; p. 1335.
- Magazine, Monthly. The Efficiency Company. No. 102,875; Feb. 23; Gaz. vol. 211; p. 1261.
- Magazine, Monthly. A. J. Fischer. No. 104,764; June 15; Gaz. vol. 215; p. 973.
- Magazine, Monthly. Profitable Storekeeping Company. No. 105,903; Aug. 24; Gaz. vol. 217; p. 1337.
- Magazine, Monthly. M. P. Publishing Co. No. 107,080; Nov. 9; Gaz. vol. 220; p. 673.
- Magazine, Monthly. The Suburban Press. No. 102,909; Mar. 2; Gaz. vol. 212; p. 323.
- Magazine, newspaper, and periodical, Monthly. S. Schwartzman. No. 107,451; Nov. 30; Gaz. vol. 220; p. 1715.
- Magazine, Weekly. Every Week Corporation. No. 106,758; Oct. 26; Gaz. vol. 219; p. 1233.
- Magazine, Weekly. The International Monthly, Inc. No. 101,947; Jan. 19; Gaz. vol. 210; p. 1060.
- Magazine, Weekly. Tradesmen's Publishing Co. No. 106,058; Sept. 21; Gaz. vol. 218; p. 873.
- Magazines, Monthly. Chapple Publishing Company. No. 104,442; June 1; Gaz. vol. 215; p. 317.
- Magazines, Monthly. Chapple Publishing Company. No. 105,995; Sept. 14; Gaz. vol. 218; p. 599.
- Magazines, Monthly. Farm Engineering Publishing Company. No. 106,317; Oct. 19; Gaz. vol. 219; p. 921.
- Magazines, Monthly. La Salle Extension University Incorporated. No. 105,546; Aug. 3; Gaz. vol. 217; p. 336.
- Magazines, Monthly. The Photographic Journal of America, Incorporated. No. 106,364; Oct. 19; Gaz. vol. 219; p. 922.
- Magazines, Monthly trade. The Novelty News Co. No. 105,605; Aug. 10; Gaz. vol. 217; p. 694.
- Magazines published monthly. The Dean-Hicks Company. No. 106,578; Oct. 26; Gaz. vol. 219; p. 1228.
- Magnetic foot-pads. H. G. Sherwood. No. 107,532; Dec. 7; Gaz. vol. 221; p. 347.
- Magnetos. Sumter Electrical Company. Nos. 104,681-2; June 8; Gaz. vol. 215; p. 664.
- Mail-boxes. H. P. Sickels. No. 106,874; Oct. 19; Gaz. vol. 219; p. 922.
- Malt-grinding mills. Simon, Bühler & Baumann. No. 101,652; Jan. 5; Gaz. vol. 210; p. 394.
- Malt sugar or maltose. Buhl-Henrig Company. No. 105,312; July 20; Gaz. vol. 216; p. 1007.
- Malt tonic. The Peter Schoenhofen Brewing Company. No. 103,794; Apr. 13; Gaz. vol. 213; p. 744.
- Mandolin tailpieces, shells, picks, hold-fasts, &c., Banjo-. B. V. Kershner. No. 107,428; Nov. 23; Gaz. vol. 220; p. 1370.
- Mandolins and guitars. Lyon & Healy. No. 105,823; Aug. 17; Gaz. vol. 217; p. 1052.
- Manicule articles, &c. C. J. Bates & Son. No. 102,506; Feb. 9; Gaz. vol. 211; p. 638.
- Manicule implements, Certain named. H. Böker & Co. No. 106,407; Oct. 19; Gaz. vol. 219; p. 923.
- Manicule instruments. M. Klaas. No. 104,878; June 22; Gaz. vol. 215; p. 1258.

Alphabetical list of trade-marks—Continued.

- Mantle-protectors for gas, &c., burners. Wire-mesh. The Safety Wire Gas Globe Co. No. 107,531; Dec. 7; Gaz. vol. 221; p. 347.
- Maps. E. Hencé & Co. No. 104,451; June 1; Gaz. vol. 215; p. 317.
- Marble. The Victoria Marble Company. No. 106,526; Oct. 19; Gaz. vol. 219; p. 927.
- Marble and stone. Quarried. Phenix Marble Company. No. 107,373; Nov. 23; Gaz. vol. 220; p. 1369.
- Marchpane and marchpane surrogates. Kruchen & Haas. No. 106,632; Oct. 26; Gaz. vol. 219; p. 1229.
- Marshmallows. The Rochester Candy Works. No. 103,398; Mar. 30; Gaz. vol. 212; p. 1686.
- Massage instruments. J. F. Brodigan. No. 106,404; Oct. 19; Gaz. vol. 219; p. 923.
- Massage-machines. Vacuum. New Life Massage Co. No. 106,476; Oct. 19; Gaz. vol. 219; p. 925.
- Match-boxes, except precious metal, drinking-cups, &c. United Drug Company. No. 102,214; Jan. 26; Gaz. vol. 210; p. 1393.
- Match-boxes not of precious metal. National Sheet Metal Co. No. 105,826; Aug. 17; Gaz. vol. 217; p. 1052.
- Match-cases. Gold and gold-plated. George W. Dover Company. No. 107,805; Dec. 28; Gaz. vol. 221; p. 1447.
- Matches. Aktieselskabet H. E. Gosch & Co.'s Tændstikfabrikker Og Aktietændstikfabriken Godthaab. No. 106,391; Oct. 19; Gaz. vol. 219; p. 923.
- Matches. North American Mercantile Co. No. 104,883; June 22; Gaz. vol. 215; p. 1258.
- Matches. The Ohio Match Company. No. 106,662; Oct. 26; Gaz. vol. 219; p. 1230.
- Matches. N. V. Teteringsche Stoom-Lucifersfabriek v/h Dijkerman & Co. No. 107,525; Dec. 7; Gaz. vol. 221; p. 346.
- Material and cotton piece goods, Certain named. Lorraine Manufacturing Company. No. 101,858; Jan. 12; Gaz. vol. 210; p. 713.
- Mattresses. Bloom & Godley Co. No. 105,310; July 20; Gaz. vol. 216; p. 1007.
- Mattresses. Jop-pa Mattress Co. No. 102,283; Feb. 2; Gaz. vol. 211; p. 280.
- Mattresses. The Peerless Toledo Bedding Company. No. 107,371; Nov. 23; Gaz. vol. 220; p. 1369.
- Mattresses and bedsteads. Northwestern Bedding and Manufacturing Co. No. 106,009; Sept. 14; Gaz. vol. 218; p. 599.
- Mattresses, box-springs, feather pillows and cushions. Schultz & Hirsch Co. No. 102,906; Mar. 2; Gaz. vol. 212; p. 323.
- Mattresses, Coiled-wire spring. Grand Rapids Bedding Company. Nos. 103,234-6; Mar. 23; Gaz. vol. 212; p. 1354.
- Mattresses, Cotton-felt. Bloom & Godley Co. No. 104,556; June 1; Gaz. vol. 215; p. 320.
- Mayonnaise. Hunkele Bros. No. 106,770; Oct. 26; Gaz. vol. 219; p. 1234.
- Mayonnaise dressing. I. Fleischer. No. 106,851; Nov. 2; Gaz. vol. 220; p. 344.
- Meal, Calif. Bartlett-Tuelli Co. No. 105,929; Aug. 31; Gaz. vol. 217; p. 1657.
- Meal, Calif. International Stock Food Co. No. 106,614; Oct. 26; Gaz. vol. 219; p. 1229.
- Meal, Chick. Northrup, King & Co. No. 107,631; Dec. 14; Gaz. vol. 221; p. 732.
- Meal, Cotton-seed. Empire Cotton Oil Co. No. 102,384; Feb. 9; Gaz. vol. 211; p. 634.
- Meal, Cotton-seed. C. L. Montgomery & Company. No. 106,005; Sept. 14; Gaz. vol. 218; p. 599.
- Meal, Cotton-seed. J. E. Soper Co. No. 103,707; Apr. 13; Gaz. vol. 213; p. 741.
- Meal, Cotton-seed. Union Seed & Fertilizer Company. No. 105,768; Aug. 17; Gaz. vol. 217; p. 1050.
- Measuring and scientific appliances and parts thereof. Certain named. Firm of C. Zeiss. Nos. 106,131-2; Oct. 12; Gaz. vol. 219; p. 582.
- Measuring and scientific appliances, Certain named. American Optical Company. No. 104,664; June 8; Gaz. vol. 215; p. 663.
- Measuring and scientific appliances, Certain named. Sargent & Company. No. 104,649; June 8; Gaz. vol. 215; p. 663.
- Measuring and scientific supplies, Certain named. Universal Optical Corporation. No. 107,221; Nov. 16; Gaz. vol. 220; p. 1037.
- Measuring machines and parts. Cloth and fabric. The Measuregraph Company. No. 104,624; June 8; Gaz. vol. 215; p. 662.
- Measuring-rules. The Stanley Rule & Level Company. No. 1,106,810; Oct. 26; Gaz. vol. 219; p. 1235.
- Measuring rules and tape, thermometers, and lantern-slides. United Drug Company. No. 106,707; Oct. 26; Gaz. vol. 219; p. 1232.
- Meat-choppers and parts thereof. Sander Mfg. Co. No. 106,123; Oct. 12; Gaz. vol. 219; p. 582.
- Meat sauces, salad-dressings, &c. Natural Fruit Co. No. 107,084; Nov. 9; Gaz. vol. 220; p. 674.
- Medical and surgical appliances, Certain named. Lee Tire & Rubber Co. No. 104,879; June 22; Gaz. vol. 215; p. 1258.
- Medical and surgical appliances, Certain named. Nyal Company. No. 103,790; Apr. 13; Gaz. vol. 213; p. 743.
- Medical and surgical appliances, Certain named. Victor Electric Company. No. 104,404; May 25; Gaz. vol. 214; p. 1317.
- Medical compound for coughs, colds, hoarseness, asthma, &c. F. Malina. No. 106,349; Oct. 19; Gaz. vol. 219; p. 922.
- Medical compound for hog-cholera. C. E. Deming. No. 102,262; Feb. 2; Gaz. vol. 211; p. 279.
- Medical compound for sick, &c., headaches. D. Hogg. No. 107,666; Dec. 14; Gaz. vol. 221; p. 734.
- Medical compound for use in the treatment of certain named diseases. E. N. Gilbert. No. 107,445; Nov. 30; Gaz. vol. 220; p. 1715.
- Medical compounds for treating certain diseases, Recipes for preparation of. J. D. Norman. No. 103,569; Apr. 6; Gaz. vol. 213; p. 356.
- Medical preparation for internal and external application. I. E. Brown. No. 102,036; Jan. 26; Gaz. vol. 210; p. 1388.
- Medical substance, Antigonorrheic and astringent. The Bayer Company. No. 106,285; Oct. 19; Gaz. vol. 219; p. 920.
- Medicated bath-tablets. L. C. Landon & Co. No. 102,840; Feb. 23; Gaz. vol. 211; p. 1260.
- Medicated liquids for catarrh, &c. H. E. Brown. No. 106,936; Nov. 9; Gaz. vol. 220; p. 669.
- Medicated pads. J. A. Trotter. No. 102,949; Mar. 2; Gaz. vol. 212; p. 325.
- Medicinal bitters containing iron and quinin. A. Carsana. No. 103,280; Mar. 30; Gaz. vol. 212; p. 1683.
- Medicinal compound for diseases of women. Sansby Brothers. No. 103,399; Mar. 30; Gaz. vol. 212; p. 1686.
- Medicinal compound for treating certain named diseases. J. H. O'Grady. No. 105,987; Sept. 7; Gaz. vol. 218; p. 317.
- Medicinal compound used for various human ailments. S. Fargo. No. 102,750; Feb. 23; Gaz. vol. 211; p. 1257.
- Medicinal compound used for various human ailments. S. Fargo. No. 102,752; Feb. 23; Gaz. vol. 211; p. 1257.
- Medicinal compound used internally for treating certain named affections. T. E. Dusanic. No. 101,702; Jan. 5; Gaz. vol. 210; p. 395.
- Medicinal compounds for diseases of women. H. A. Kingdon. No. 103,954; Apr. 20; Gaz. vol. 213; p. 1114.
- Medicinal preparation. The Eli Lilly and Company. No. 106,348; Oct. 19; Gaz. vol. 219; p. 922.
- Medicinal preparation. A. Lunschloss. No. 105,857; Aug. 24; Gaz. vol. 217; p. 1335.
- Medicinal preparation. The Petrolene Co. No. 104,885; June 22; Gaz. vol. 215; p. 1258.
- Medicinal preparation. Riker & Hegeman Co. No. 102,985; Mar. 9; Gaz. vol. 212; p. 686.
- Medicinal preparation for certain named ailments. R. K. Maguire. No. 106,984; Nov. 9; Gaz. vol. 220; p. 671.
- Medicinal preparation for cholera and other diseases of hogs. J. Csima. No. 106,298; Oct. 19; Gaz. vol. 219; p. 920.
- Medicinal preparation for diseases of poultry. R. Lich. No. 104,946; June 29; Gaz. vol. 215; p. 1493.
- Medicinal preparation for goiter. The Aunt Emma's Co. No. 103,843; Apr. 13; Gaz. vol. 213; p. 745.
- Medicinal preparation for indigestion, dyspepsia, &c. R. J. Stone. No. 106,519; Oct. 19; Gaz. vol. 219; p. 927.
- Medicinal preparation for malaria, chills and fever, &c. The Franklin Co. No. 102,083; Jan. 26; Gaz. vol. 210; p. 1389.
- Medicinal preparation for malaria, fever, and biliousness. M. C. Smith. No. 106,912; Nov. 2; Gaz. vol. 220; p. 345.
- Medicinal preparation for pellagra. American Compound-ing Co. No. 107,509; Dec. 7; Gaz. vol. 221; p. 346.
- Medicinal preparation for producing anesthesia. The Hoffmann-La Roche Chemical Works. No. 102,860; Feb. 23; Gaz. vol. 211; p. 1261.
- Medicinal preparation for producing anesthesia. The Hoffmann-La Roche Chemical Works. No. 103,288; Mar. 30; Gaz. vol. 212; p. 1683.
- Medicinal preparation for stomach diseases. V. R. Levett. No. 102,289; Feb. 2; Gaz. vol. 211; p. 280.
- Medicinal preparation for the cure of certain named diseases. Peters & Company Proprietary Limited. No. 102,902; Mar. 2; Gaz. vol. 212; p. 323.
- Medicinal preparation for treating certain diseases. American Apothecaries Company. No. 103,933; Apr. 20; Gaz. vol. 213; p. 1113.
- Medicinal preparations containing iodine. J. D. Riedel Aktiengesellschaft. No. 104,990; June 29; Gaz. vol. 215; p. 1495.
- Medicinal preparations for catarrh, colds, hay-fever, &c. Dr. Leonhardt Co. No. 103,241; Mar. 23; Gaz. vol. 212; p. 1354.
- Medicinal preparations for the intestinal tract. J. T. McFadden. No. 106,651; Oct. 26; Gaz. vol. 219; p. 1230.
- Medicinal preparations for treating certain named diseases, and certain medicines. J. G. Gordon Co. No. 107,326; Nov. 23; Gaz. vol. 220; p. 1367.
- Medicinal tablet for nervous disorders, Effervescent. Sharp & Dohme. No. 107,290; Nov. 16; Gaz. vol. 220; p. 1039.

- Medicinal tablets for colds, la grippe, headache, &c. G. Van Arkel. No. 102,822; Feb. 23; Gaz. vol. 211; p. 1259.
- Medicinal tonic. B. Burns. No. 106,406; Oct. 19; Gaz. vol. 219; p. 923.
- Medicinal tonic, salve and liniment. W. C. Eyster. No. 102,395; Feb. 9; Gaz. vol. 211; p. 635.
- Medicine, Blood liquid. H. H. von Schlick. No. 107,404; Nov. 23; Gaz. vol. 220; p. 1370.
- Medicine, Chill-. C. W. Staley. No. 102,696; Feb. 23; Gaz. vol. 211; p. 1256.
- Medicine, Cough. M. J. Richards. No. 105,227; July 13; Gaz. vol. 216; p. 658.
- Medicine, Cough-. C. Steiner. No. 103,364; Mar. 30; Gaz. vol. 212; p. 1685.
- Medicine for certain named ailments. T. Gray. No. 104,384; May 25; Gaz. vol. 214; p. 1316.
- Medicine for certain named ailments and diseases. E. W. Coleman. No. 102,601; Feb. 16; Gaz. vol. 211; p. 952.
- Medicine for diseases of the kidneys, bladder, and urinary organs. C. H. Rubel. No. 106,019; Sept. 14; Gaz. vol. 218; p. 599.
- Medicine for dyspepsia, sour stomach, &c. D. E. Haller. No. 107,740; Dec. 28; Gaz. vol. 221; p. 1445.
- Medicine for rheumatism. A. Aggott. No. 107,536; Dec. 7; Gaz. vol. 221; p. 347.
- Medicine for rheumatism, dropsy, eczema, &c. H. B. Bone. No. 105,387; July 20; Gaz. vol. 216; p. 1009.
- Medicine for syphilis. Indian Medicine Company. No. 107,687; Dec. 21; Gaz. vol. 221; p. 1035.
- Medicine for the relief of certain named ailments. The Mayfield Co. No. 103,564; Apr. 6; Gaz. vol. 213; p. 356.
- Medicine for the treatment of certain named diseases. Swampland Medicine Co. No. 102,205; Jan. 26; Gaz. vol. 210; p. 1393.
- Medicine for the treatment of disordered conditions of the female organs. Bell & Lee Drug Co. No. 106,830; Nov. 2; Gaz. vol. 220; p. 343.
- Medicine for venereal diseases. S. W. Smith & Company. No. 107,292; Nov. 16; Gaz. vol. 220; p. 1039.
- Medicine, Tonic. Anglo-American Pharmaceutical Company. No. 104,084; Apr. 27; Gaz. vol. 213; p. 1444.
- Medicine, Tuberculosis. N. Hartford. No. 104,937; June 29; Gaz. vol. 215; p. 1493.
- Medicine used as a tonic, stimulant, &c. The Cooper Medicine Company. No. 104,828; June 22; Gaz. vol. 215; p. 1257.
- Medicines and pharmaceutical preparations. Certain named. Joseph Horne Drug Co. No. 102,102; Jan. 26; Gaz. vol. 210; p. 1390.
- Medicines and pharmaceutical preparations. Certain named. G. F. E. Pawlas. No. 104,884; June 22; Gaz. vol. 215; p. 1258.
- Medicines and pharmaceutical preparations. Certain named. M. W. Savage. No. 107,015; Nov. 9; Gaz. vol. 220; p. 672.
- Medicines and pharmaceutical preparations, Certain named. Weld & Company. No. 106,817; Oct. 26; Gaz. vol. 219; p. 1235.
- Medicines and pharmaceutical preparations. Certain named. John Wyeth & Brother. No. 104,497; June 1; Gaz. vol. 215; p. 319.
- Medicines and remedies for certain diseases. Luse Bros. Chemical Co. No. 103,955; Apr. 20; Gaz. vol. 213; p. 1114.
- Medicines and remedies for certain diseases. Certain named. Henry Thayer & Company. No. 101,886; Jan. 12; Gaz. vol. 210; p. 714.
- Medicines and toilet preparations. Certain named. The De Free Chemical Company. No. 106,042; Sept. 21; Gaz. vol. 218; p. 873.
- Medicines, Digestive. S. Chiba. No. 103,940; Apr. 20; Gaz. vol. 213; p. 1114.
- Medicines for certain named disorders. J. W. R. Laxton. No. 106,635; Oct. 26; Gaz. vol. 219; p. 1230.
- Medicines for coughs, colds, impure blood, &c. Mutual Drug Co. No. 102,718; Feb. 23; Gaz. vol. 211; p. 1256.
- Medicines for diarrhea, dysentery, &c. M. E. Sullivan. No. 105,087; July 6; Gaz. vol. 216; p. 322.
- Medicines for dropsy. J. D. Kinney. No. 103,588; Apr. 6; Gaz. vol. 213; p. 356.
- Medicines for treatment of certain named cases. W. T. Mahon. No. 102,133; Jan. 26; Gaz. vol. 210; p. 1391.
- Medicines for tuberculosis. Parent product for the preparation of. Farbwerke vorm. Meister Lucius & Brüning. No. 102,602; Feb. 16; Gaz. vol. 211; p. 952.
- Medicines for venereal diseases. Fort Worth Chemical Company. No. 106,319; Oct. 19; Gaz. vol. 219; p. 921.
- Medicines, Liquid laxative. California Fig Syrup Co. No. 104,087; Apr. 27; Gaz. vol. 213; p. 1444.
- Medicines or specifics for indigestion, dyspepsia, heartburn, flatulence, &c. The Renzie Drug Company. No. 104,338; May 18; Gaz. vol. 214; p. 1022.
- Medicines prepared from roots and herbs for certain named diseases. Oriental and Occidental Medical Company. No. 102,981; Mar. 9; Gaz. vol. 212; p. 685.
- Medicines, Tonic. Erthol Medicine Co. No. 103,054; Mar. 16; Gaz. vol. 212; p. 1051.
- Metal and aluminum polishes. Republic Chemical Products Company. No. 105,754; Aug. 17; Gaz. vol. 217; p. 1050.
- Metal, Babbitt. Syracuse Smelting Works. No. 107,217; Nov. 16; Gaz. vol. 220; p. 1037.
- Metal, Babbitt. Woodward, Wight & Company. No. 107,769; Dec. 28; Gaz. vol. 221; p. 1446.
- Metal castings and alloys of same. William B. Anderson Foundry Company. No. 101,727; Jan. 12; Gaz. vol. 210; p. 709.
- Metal castings and pipes. Certain metallic compound for repairing. H. W. Johns-Manville Co. No. 101,853; Jan. 12; Gaz. vol. 210; p. 713.
- Metal-cleansers. The Silverase Co. No. 105,677; Aug. 10; Gaz. vol. 217; p. 696.
- Metal compositions, Babbitt metal, &c. Bronze. John Wigmore & Sons Co. No. 102,321; Feb. 2; Gaz. vol. 211; p. 281.
- Metal, Galvanized. Wyatt Metal Works. No. 101,892; Jan. 12; Gaz. vol. 210; p. 714.
- Metal, glass, porcelain, stove, and stone polishes. Siegel & Co. No. 104,130; May 4; Gaz. vol. 214; p. 339.
- Metal in ingots, castings, or forgings. Special-process. R. E. Rich. No. 105,611; Aug. 10; Gaz. vol. 217; p. 694.
- Metal plates and sheets. Follansbee Brothers Company. No. 105,812; Aug. 17; Gaz. vol. 217; p. 1052.
- Metal-polish. Etna Chemical Company. No. 105,786; Aug. 17; Gaz. vol. 217; p. 1051.
- Metal-polish. C. F. C. Herting. No. 101,636; Jan. 5; Gaz. vol. 210; p. 393.
- Metal-polish. Albert Pick & Co. No. 103,825; Apr. 13; Gaz. vol. 213; p. 744.
- Metal-polish. G. P. Rose, Jr. No. 105,231; July 13; Gaz. vol. 216; p. 658.
- Metal-polishes. Adams & Elling Company. No. 102,886; Mar. 2; Gaz. vol. 212; p. 323.
- Metal-polishes. Orona Mfg. Co. Nos. 105,865-6; Aug. 24; Gaz. vol. 217; p. 1336.
- Metal-polishes. Reckitts (U. S. A.) Ltd. No. 107,450; Nov. 30; Gaz. vol. 220; p. 1715.
- Metal-polishes. D. M. Tetzloff. No. 105,001; June 29; Gaz. vol. 215; p. 1495.
- Metal, Rust-resisting anticorrosive. The Canton Culvert and Silo Company. No. 105,972; Sept. 7; Gaz. vol. 218; p. 317.
- Metal, Rust-resisting and anticorrosive. The Stark Rolling Mill Company. No. 107,210; Nov. 16; Gaz. vol. 220; p. 1037.
- Metal shapes, bars, and sheets. Northfield Iron Company. No. 104,261; May 11; Gaz. vol. 214; p. 679.
- Metal, Sheet. Birmingham Metal Products Co. No. 107,774; Dec. 28; Gaz. vol. 221; p. 1446.
- Metal surfaces, Solution for removing rust and grease from. American Chemical Paint Company. No. 104,434; June 1; Gaz. vol. 215; p. 317.
- Metal ware, Copper, brass, and nickel hollow. S. W. Farber. No. 103,751; Apr. 13; Gaz. vol. 213; p. 742.
- Metals and alloys, Bearing. The Young & Vann Supply Co. No. 102,323; Feb. 2; Gaz. vol. 211; p. 281.
- Metals, Electroplated. Rojas Electrochemical Co. No. 105,398; July 20; Gaz. vol. 216; p. 1009.
- Metals, Flux for melting. Standard Brass & Alloy Co. No. 103,332; Mar. 30; Gaz. vol. 212; p. 1684.
- Meters, electric indicators, and testing apparatus, &c. Electricity-. Sangamo Electric Company. No. 105,828; Aug. 17; Gaz. vol. 217; p. 1052.
- Mica. F. F. Chrestien & Company. No. 101,698; Jan. 5; Gaz. vol. 210; p. 395.
- Micrometers. J. T. Slocumb Company. No. 102,458; Feb. 9; Gaz. vol. 211; p. 631.
- Milk and cream. The Belle Vernon Mapes Dairy Co. No. 104,297; May 18; Gaz. vol. 214; p. 1021.
- Milk and cream. Sheffield Farms-Slawson-Decker Company. No. 103,208; Mar. 23; Gaz. vol. 212; p. 1353.
- Milk, Canned evaporated. Mount Vernon Cream Co. No. 104,627; June 8; Gaz. vol. 215; p. 662.
- Milk, Condensed. Borden's Condensed Milk Company. Nos. 105,908-9; Aug. 24; Gaz. vol. 217; p. 1337.
- Milk, Condensed. S. A. C. Dudok van Heel. No. 107,018; Nov. 9; Gaz. vol. 220; p. 672.
- Milk, Condensed. S. A. C. Dudok van Heel. No. 107,639; Dec. 14; Gaz. vol. 221; p. 733.
- Milk, Condensed. N. V. Fabriek van Melkproducten "Excelsior." Nos. 104,466-7; June 1; Gaz. vol. 215; p. 318.
- Milk, Condensed. N. V. Fabriek van Melkproducten "Excelsior." No. 105,259; July 13; Gaz. vol. 216; p. 659.
- Milk, Condensed. N. V. Fabriek van Melkproducten "Excelsior." No. 105,364; July 20; Gaz. vol. 216; p. 1008.
- Milk, Condensed. Naaml. Venn. "Excelsior" Fabriek van Melkproducten. Nos. 104,468-70; June 1; Gaz. vol. 215; p. 318.
- Milk, Condensed. South Holland Milk Corporation. No. 105,924; Aug. 24; Gaz. vol. 217; p. 1337.
- Milk, Condensed. Steinhartder & Nordlinger. No. 106,696; Oct. 26; Gaz. vol. 219; p. 1231.
- Milk, Condensed. Wisconsin Condensed Milk Company. No. 107,132; Nov. 9; Gaz. vol. 220; p. 675.
- Milk, cream, and ice-cream. Borden's Condensed Milk Company. No. 107,310; Nov. 23; Gaz. vol. 220; p. 1367.
- Milk, cream, and ice-cream. Pulpit Farm Dairy. No. 106,899; Nov. 2; Gaz. vol. 220; p. 345.

Alphabetical list of trade-marks—Continued.

- Milk, cream, butter, and cheese. The Canadian Farm Produce Company. No. 105,956; Aug. 31; Gaz. vol. 217; p. 1657.
- Milk, Dried or desiccated. Borden's Condensed Milk Company. No. 106,402; Oct. 19; Gaz. vol. 219; p. 923.
- Milk, Dry or evaporated. A/S Egron. No. 104,606; June 8; Gaz. vol. 215; p. 661.
- Milk, Evaporated. M. A. Fee. No. 102,835; Feb. 23; Gaz. vol. 211; p. 1260.
- Milk, Evaporated. Hudson Condensed Milk Co. No. 102,106; Jan. 26; Gaz. vol. 210; p. 1390.
- Milk, lactated tissue food, &c., Powdered, condensed, and evaporated. Hudson Condensed Milk Co. No. 102,799; Feb. 23; Gaz. vol. 211; p. 1259.
- Milk, milk cocoa and chocolate. Bernese Alps Milk Co. No. 102,733; Feb. 23; Gaz. vol. 211; p. 1257.
- Milk, Powdered. Jaburg Brothers. No. 105,790; Aug. 17; Gaz. vol. 217; p. 1051.
- Milk product, evaporated. The Sheboygan Evaporated Milk Co. No. 105,904; Aug. 24; Gaz. vol. 217; p. 1337.
- Milk scientifically soured, Whole. Childs Company. No. 104,865; June 22; Gaz. vol. 215; p. 1258.
- Milling-cutters. Peninsular Tool Salvage Co. No. 107,002; Nov. 9; Gaz. vol. 220; p. 671.
- Mirror-glass for shaving and toilet purposes. C. W. Wood. No. 104,280; May 11; Gaz. vol. 214; p. 679.
- Mitts and gloves. O. C. Hansen Mfg. Company. No. 104,977; June 29; Gaz. vol. 215; p. 1494.
- Mitts and gloves, Base-ball. Chicago Sporting Goods Manufacturing Company. No. 102,057; Jan. 26; Gaz. vol. 210; p. 1388.
- Molding-machines, foundry cranes and sprue-cutters, &c. The Coleman Foundry Equipment Company. No. 106,568; Oct. 26; Gaz. vol. 219; p. 1228.
- Mops. American Disinfecting Co. No. 106,392; Oct. 19; Gaz. vol. 219; p. 923.
- Mops. P. De Roo Sons. No. 104,711; June 15; Gaz. vol. 215; p. 971.
- Mops. Duncan Bros. Mop Co. No. 107,319; Nov. 23; Gaz. vol. 220; p. 1367.
- Mops and brooms. Gustav Franklin Company. No. 103,423; Apr. 6; Gaz. vol. 213; p. 351.
- Mops and dusters, sanitary household brushes, Dustless. The Kleanol Company. No. 105,855; Aug. 24; Gaz. vol. 217; p. 1335.
- Mops, brooms, and floor-brushes. A. G. Jacobus' Sons. No. 106,048; Sept. 21; Gaz. vol. 218; p. 873.
- Mops, dustless dust-cloths, &c., Polish-. Wizard Products Co. No. 107,568; Dec. 7; Gaz. vol. 221; p. 348.
- Mops, Polish-. Elite Polish Company. No. 102,076; Jan. 26; Gaz. vol. 210; p. 1389.
- Motor-cars. The Sunbeam Motor Car Company. No. 103,864; Apr. 20; Gaz. vol. 213; p. 1111.
- Motor-cycles and bicycles, Certain named accessories and supplies for. Angsten-Koch Company. No. 104,694; June 15; Gaz. vol. 215; p. 971.
- Motor trucks, bodies, chassis, and running-gear. Denov Motor Truck Company. No. 106,302; Oct. 19; Gaz. vol. 219; p. 920.
- Motors, Air-humidifier for explosive-. J. M. Kroyer. No. 102,287; Feb. 2; Gaz. vol. 211; p. 280.
- Motors, Compounds to eradicate and prevent hard carbon formations in internal-combustion. K. A. C. Power Manufacturing Company. No. 105,065; July 6; Gaz. vol. 216; p. 322.
- Motors for boats and canoes, Internal-combustion. Evinrude Motor Co. No. 103,420; Apr. 6; Gaz. vol. 213; p. 351.
- Motors, Hydraulic. W. Hope. No. 106,441; Oct. 19; Gaz. vol. 219; p. 924.
- Motors, Non-electric marine. Hoefler Manufacturing Company. No. 106,102; Oct. 12; Gaz. vol. 219; p. 581.
- Mouth-organs, accordions, and concertinas. Firm of F. A. Böhm. No. 102,364; Feb. 9; Gaz. vol. 211; p. 634.
- Mouth-wash. Zinol Chemical Co. No. 107,225; Nov. 16; Gaz. vol. 220; p. 1037.
- Mouth-wash and tooth-paste. H. B. Shuman. No. 103,795; Apr. 13; Gaz. vol. 213; p. 744.
- Mouth-wash, Antiseptic. L. M. Baughman. No. 105,949; Aug. 31; Gaz. vol. 217; p. 1657.
- Mouth-wash, Antiseptic. Kloczewski & Crisp. No. 105,916; Aug. 24; Gaz. vol. 217; p. 1337.
- Mouth-wash, tooth paste, powder, and cream. Aktlebolaget Grumme & Son. No. 103,550; Apr. 6; Gaz. vol. 213; p. 355.
- Mouth-washes. Bloomingdale Bros. No. 107,465; Dec. 7; Gaz. vol. 221; p. 345.
- Music and music-books, Sheet-. The Boston Music Company. No. 102,366; Feb. 9; Gaz. vol. 211; p. 634.
- Music-playing instruments and music-rolls therefor, Mechanical. The Wilcox & White Company. No. 104,786; June 15; Gaz. vol. 215; p. 973.
- Music-records, Perforated. The Vocalstyle Music Company. No. 107,654; Dec. 14; Gaz. vol. 221; p. 733.
- Music-rolls for player-pianos, &c. C. T. Schoen. No. 103,828; Apr. 13; Gaz. vol. 213; p. 745.
- Music, Sheet-. Waterson-Berlin & Snyder Company. No. 105,627; Aug. 10; Gaz. vol. 217; p. 694.
- Music-sheets for piano-players, Perforated. Connorsized Music Company. No. 105,649; Aug. 10; Gaz. vol. 217; p. 695.
- Musical-instrument note-sheets. American Piano Co. No. 104,140; May 4; Gaz. vol. 214; p. 339.
- Musical-instrument note-sheets, &c., Automatic or partly-automatic. American Piano Company. No. 105,246; July 13; Gaz. vol. 216; p. 659.
- Musical-instrument strings. Fred Gretsch Mfg. Co. No. 103,869; Apr. 20; Gaz. vol. 213; p. 1111.
- Musical-instrument strings. Lyon & Healy. No. 103,243; Mar. 23; Gaz. vol. 212; p. 1354.
- Musical instruments. The Aeolian Company. No. 104,115; May 4; Gaz. vol. 214; p. 339.
- Musical instruments. The Aeolian Company. Nos. 105,176-7; July 13; Gaz. vol. 216; p. 657.
- Musical instruments and apparatus and parts, &c. Ludwig Hupfeld Aktiengesellschaft. No. 103,665; Apr. 13; Gaz. vol. 213; p. 740.
- Musical instruments and parts thereof, Certain named. S. Buegeleisen. No. 103,253; Mar. 23; Gaz. vol. 212; p. 1354.
- Musical instruments and supplies, Certain named. C. Bruno & Son. No. 103,311; Mar. 30; Gaz. vol. 212; p. 1684.
- Musical instruments and supplies, Certain named. Buescher Band Instrument Co. No. 106,560; Oct. 26; Gaz. vol. 219; p. 1227.
- Muslin, Bleached. Carson, Pirie, Scott & Co. Nos. 103,281-2; Mar. 30; Gaz. vol. 212; p. 1683.
- Muslins, Bleached and unbleached. Wheeler & Motter Mercantile Company. No. 101,996; Jan. 19; Gaz. vol. 210; p. 1062.
- Mustard. C. Gulden. No. 105,787; Aug. 17; Gaz. vol. 217; p. 1051.
- Mustard and dessert-powders, Prepared. The Ludlow-Robson Co. No. 102,423; Feb. 9; Gaz. vol. 211; p. 636.
- Mustard, mustard catsup, salad-dressing, &c. The Olds Products Co. No. 105,322; July 20; Gaz. vol. 216; p. 1007.
- Mustard relish. The Widlar Co. No. 103,773; Apr. 13; Gaz. vol. 213; p. 743.
- Nail-polish. O. L. Graf. No. 103,161; Mar. 16; Gaz. vol. 212; p. 1054.
- Nails, Coated. J. C. Pearson Co. No. 102,812; Feb. 23; Gaz. vol. 211; p. 1259.
- Nails, Horse-. The Capewell Horse Nail Company. Nos. 107,541-2; Dec. 7; Gaz. vol. 221; p. 347.
- Nails, Horseshoe-. The Fowler Nail Co. No. 104,872; June 22; Gaz. vol. 215; p. 1258.
- Nails, Iron and steel wire. The Youngstown Sheet & Tube Company. No. 107,462; Nov. 30; Gaz. vol. 220; p. 1715.
- Nails, Triangular aluminum shingle-. S. E. Staggs. No. 105,450; July 27; Gaz. vol. 216; p. 1313.
- Nainsook. King Philip Mills. Nos. 105,319-20; July 20; Gaz. vol. 216; p. 1007.
- Naphtha, benzin, and distillate, Motor-. Petroleum Products Company. No. 106,363; Oct. 19; Gaz. vol. 219; p. 922.
- Neckties. C. Ruben. No. 105,142; July 6; Gaz. vol. 216; p. 324.
- Neckties. The United Neckwear Shops Co. No. 102,346; Feb. 9; Gaz. vol. 211; p. 633.
- Neckties and neckscarfs. H. Rabinowitz. No. 104,107; Apr. 27; Gaz. vol. 213; p. 1444.
- Neckties and neckscarfs. Star Neckwear Co. No. 102,643; Feb. 16; Gaz. vol. 211; p. 953.
- Neckties, neckscarfs, and jabots. Louis Auerbach, Inc. No. 104,698; June 15; Gaz. vol. 215; p. 971.
- Needles, Sewing-. Olney Amsden & Sons. No. 102,352; Feb. 9; Gaz. vol. 211; p. 634.
- Needlework and embroidery, Stamped art. Holzer & Wickner. No. 104,220; May 11; Gaz. vol. 214; p. 677.
- Negligees, Women's. A. Barsa & Bro. No. 106,395; Oct. 19; Gaz. vol. 219; p. 923.
- Net, Brussels silk. Arthur Wolfsohn Co. No. 107,657; Dec. 14; Gaz. vol. 221; p. 733.
- Nettings, veillings, scrims, &c. Geo. Borgfeldt & Co. No. 105,933; Aug. 31; Gaz. vol. 217; p. 1659.
- Newspaper. Morning Journal Association. No. 104,465; June 1; Gaz. vol. 215; p. 318.
- Newspaper, Daily. Enosis Publishing Company. No. 106,226; Oct. 19; Gaz. vol. 219; p. 918.
- Newspaper-section. Star Company. No. 102,198; Jan. 26; Gaz. vol. 210; p. 1392.
- Newspaper-section. Star Company. Nos. 105,615-18; Aug. 10; Gaz. vol. 217; p. 694.
- Newspaper-section. Star Company. Nos. 107,696-9; Dec. 21; Gaz. vol. 221; p. 1035.
- Newspaper-section. Star Company. Nos. 107,868-71; Dec. 28; Gaz. vol. 221; p. 1449.
- Newspaper, Weekly. Merit Corporation. No. 102,842; Feb. 23; Gaz. vol. 211; p. 1260.
- Newspaper, Weekly. The Ohio Saturday Night Publishing Company. No. 107,632; Dec. 14; Gaz. vol. 221; p. 732.
- Newspaper, Weekly. W. Osgood. No. 105,606; Aug. 10; Gaz. vol. 217; p. 694.
- Nippers, Hoof-. The Lowe Manufacturing Company. No. 104,542; June 1; Gaz. vol. 215; p. 320.
- Nipples, Nursing-. H. Schneider. No. 102,455; Feb. 9; Gaz. vol. 211; p. 637.

- Nut-locks. The National Lock Washer Company. No. 102,240; Jan. 26; Gaz. vol. 210; p. 1394.
- Nut paste. Chapman & Smith Company. No. 102,327; Feb. 9; Gaz. vol. 211; p. 633.
- Nut pastes. The Nutto Product Co. No. 103,113; Mar. 16; Gaz. vol. 212; p. 1052.
- Nuts. Daniels Safety Device Co. No. 103,154; Mar. 16; Gaz. vol. 212; p. 1053.
- Nuts and nut pastes. Nutto Product Co. Nos. 103,114-15; Mar. 16; Gaz. vol. 212; p. 1052.
- Nuts, Bakers' granulated. G. A. Reuter. No. 107,858; Dec. 28; Gaz. vol. 221; p. 1449.
- Nuts, Coupling-. The Leslie Company. No. 106,638; Oct. 26; Gaz. vol. 219; p. 1230.
- Nuts, Lock-. American Lock-Nut Company. No. 106,725; Oct. 26; Gaz. vol. 219; p. 1232.
- Nuts, lock-nuts, and nut-locks. Dieter Nut Company. No. 107,158; Nov. 16; Gaz. vol. 220; p. 1035.
- Nuts, nut-meats, honey, gelatin, &c. Habicht, Braun & Co. No. 103,237; Mar. 23; Gaz. vol. 212; p. 1354.
- Nutcrackers. Schroeter Bros. Hardware Company. No. 107,101; Nov. 9; Gaz. vol. 220; p. 674.
- Oats or oatmeal, Rolled. Buffalo Cereal Company. No. 106,940; Nov. 9; Gaz. vol. 220; p. 669.
- Oats, Rolled. The Corno Mills Company. No. 106,072; Oct. 5; Gaz. vol. 219; p. 267.
- Oats, Rolled. Purity Oats Company. No. 103,442; Apr. 6; Gaz. vol. 213; p. 352.
- Odometers, revolution and motion counters. Stewart-Warner Speedometer Corporation. No. 105,027; June 29; Gaz. vol. 215; p. 1496.
- Oil and kindred oil distillates of coal-tar, Creosote-. Barrett Manufacturing Company. No. 105,333; July 20; Gaz. vol. 216; p. 1007.
- Oil and oleo-stearin compound, Cotton-seed. Swift and Company. No. 105,926; Aug. 24; Gaz. vol. 217; p. 1337.
- Oil and white and cider vinegar, Cotton-seed. Glantz & Salkind. No. 103,653; Apr. 13; Gaz. vol. 213; p. 739.
- Oil, arnica and carbolic salves, &c., Hair-. South Texas Drug Company. No. 102,907; Mar. 2; Gaz. vol. 212; p. 323.
- Oil, Automobile-. W. A. Carran. No. 102,370; Feb. 9; Gaz. vol. 211; p. 634.
- Oil, Automobile-. Sears, Roebuck and Co. No. 104,846; June 22; Gaz. vol. 215; p. 1257.
- Oil-cloth. T. R. Goodlatte & Sons. No. 103,654; Apr. 13; Gaz. vol. 213; p. 739.
- Oil, Cotton-seed. A. A. Giunta. No. 105,201; July 13; Gaz. vol. 216; p. 657.
- Oil deodorizer and disinfectant. W. E. Quinn. No. 106,676; Oct. 26; Gaz. vol. 219; p. 1231.
- Oil distillates, Certain named. Barrett Manufacturing Company. No. 101,694; Jan. 5; Gaz. vol. 210; p. 395.
- Oil flavored with olive-oil, Cotton-seed salad-. J. Petrocelli & Company. No. 107,478; Dec. 7; Gaz. vol. 221; p. 345.
- Oil for illuminating and heating, and lubricating oils and greases, Refined. Standard Oil Co. No. 103,012; Mar. 16; Gaz. vol. 212; p. 1049.
- Oil for insulating and cooling purposes, Mineral. Westinghouse Electric & Manufacturing Co. No. 103,016; Mar. 16; Gaz. vol. 212; p. 1049.
- Oil for intestinal torpidity and constipation, White mineral. Sharp & Dohme. No. 106,375; Oct. 19; Gaz. vol. 219; p. 922.
- Oil for repelling mosquitos, flies, &c. A. H. Bryant. No. 103,275; Mar. 30; Gaz. vol. 212; p. 1683.
- Oil for the treatment of certain named affections, Medicinal. Vita Oil Company. No. 101,891; Jan. 12; Gaz. vol. 210; p. 714.
- Oil for topical use, Remedial. N. Sapah. No. 104,843; June 22; Gaz. vol. 215; p. 1257.
- Oil for treatment of constipation, Refined mineral. Standard Oil Company (New Jersey). No. 105,425; July 20; Gaz. vol. 216; p. 1010.
- Oil from cotton-seed or corn, Vegetable. L. Doelman Company. No. 106,846; Nov. 2; Gaz. vol. 220; p. 343.
- Oil, Fuel and road. Standard Oil Company. No. 107,393; Nov. 23; Gaz. vol. 220; p. 1369.
- Oil, gasoline, axle-grease, Lubricating-. The National Refining Company. No. 103,441; Apr. 6; Gaz. vol. 213; p. 352.
- Oil, Kerosene-. L. Cadenas & Co. No. 105,337; July 20; Gaz. vol. 216; p. 1008.
- Oil, Kerosene-. Standard Oil Company. No. 105,504; July 27; Gaz. vol. 216; p. 1315.
- Oil, Linseed-. W. R. Grace & Co. No. 106,096; Oct. 12; Gaz. vol. 219; p. 581.
- Oil, Lubricating-. Blake Oil Co. No. 104,762; June 15; Gaz. vol. 215; p. 973.
- Oil, Lubricating-. Penn Oil & Supply Co. No. 103,119; Mar. 16; Gaz. vol. 212; p. 1052.
- Oil, Lubricating-. Standard Oil Company. No. 104,077; Apr. 27; Gaz. vol. 213; p. 1443.
- Oil, Lubricating-. Standard Oil Co. No. 105,563; Aug. 3; Gaz. vol. 217; p. 336.
- Oil, Lubricating-. Standard Oil Company of New York. No. 107,106; Nov. 9; Gaz. vol. 220; p. 674.
- Oil, Lubricating-. U S Gun Oil Co. No. 106,059; Sept. 21; Gaz. vol. 218; p. 873.
- Oil, Olive-. Crestetto Bros. & Co. No. 107,549; Dec. 7; Gaz. vol. 221; p. 347.
- Oil, Olive-. Enrique Grana é Hijos. No. 104,216; May 11; Gaz. vol. 214; p. 677.
- Oil, Olive-. E. Gambogi & Co. No. 107,256; Nov. 16; Gaz. vol. 220; p. 1038.
- Oil, Olive-. D. Lattarulo. No. 107,790; Dec. 28; Gaz. vol. 221; p. 1447.
- Oil, Olive-. A. Lunschloss. No. 107,079; Nov. 9; Gaz. vol. 220; p. 673.
- Oil, Olive-. V. Marrone. No. 106,460; Oct. 19; Gaz. vol. 219; p. 925.
- Oil, Olive-. G. B. Martino & Figlio. No. 102,716; Feb. 23; Gaz. vol. 211; p. 1256.
- Oil, Olive-. New Orleans Fruit Importing Co. No. 103,112; Mar. 16; Gaz. vol. 212; p. 1052.
- Oil, Olive-. O. L. E. A. Olivicoltori Liquori ed Esportatori Associate. No. 106,660; Oct. 26; Gaz. vol. 219; p. 1230.
- Oil, Olive-. Pisani Figli & Co. No. 106,897; Nov. 2; Gaz. vol. 220; p. 345.
- Oil, Olive-. D. Rocca & Co. No. 102,541; Feb. 9; Gaz. vol. 211; p. 639.
- Oil, Olive-. Rocco Perretta & Co. No. 104,676; June 8; Gaz. vol. 215; p. 663.
- Oil, Olive-. San Antonio Drug Company. No. 104,577; June 1; Gaz. vol. 215; p. 321.
- Oil, Olive-. John Vittucci Co. No. 103,333; Mar. 30; Gaz. vol. 212; p. 1684.
- Oil, Petrolatum-. Standard Oil Company. No. 104,680; June 8; Gaz. vol. 215; p. 664.
- Oil pressed from cotton-seed, Salad-. Aspegren & Co. No. 104,587; June 8; Gaz. vol. 215; p. 661.
- Oil, Refined petroleum illuminating-. Standard Oil Company. No. 104,999; June 29; Gaz. vol. 215; p. 1495.
- Oil-substitute tablets, Castor-. Stotherts Limited. No. 106,811; Oct. 26; Gaz. vol. 219; p. 1235.
- Oil used as a medicine and as an ingredient of medicinal preparations, Mineral. L. Sonneborn Sons. No. 104,653; June 8; Gaz. vol. 215; p. 663.
- Oil, White mineral. Standard Oil Company of New York. No. 106,517; Oct. 19; Gaz. vol. 219; p. 927.
- Oil, Wood-preserving. Page & Hill Co. No. 104,746; June 15; Gaz. vol. 215; p. 972.
- Oils and gasoline, Lubricating-. The Hawkeye Oil Company. No. 106,154; Oct. 12; Gaz. vol. 219; p. 583.
- Oils and greases. Pierce Oil Corporation. No. 104,124; May 4; Gaz. vol. 214; p. 339.
- Oils and greases, also fuel-oils, Lubricating. Penn Oil and Supply Co. No. 104,747; June 15; Gaz. vol. 215; p. 972.
- Oils and greases, Certain named. H. Cooley. No. 103,998; Apr. 27; Gaz. vol. 213; p. 1441.
- Oils and greases, Certain named. J. L. Smith. No. 102,620; Feb. 16; Gaz. vol. 211; p. 953.
- Oils and greases, especially "differential" and "transmission" greases, Lubricating. The Cudahy Refining Company. No. 107,316; Nov. 23; Gaz. vol. 220; p. 1367.
- Oils and greases for illuminating, &c., Certain named. Standard Oil Company. No. 103,125; Mar. 16; Gaz. vol. 212; p. 1053.
- Oils and greases, Illuminating, lubricating, and fuel. L. Kohn. No. 105,543; Aug. 3; Gaz. vol. 217; p. 336.
- Oils and greases, Lubricating. A. C. C. Oil Company. No. 102,992; Mar. 16; Gaz. vol. 212; p. 1049.
- Oils and greases, Lubricating. The Defiance Oil Company. No. 107,156; Nov. 16; Gaz. vol. 220; p. 1035.
- Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 104,504; June 1; Gaz. vol. 215; p. 319.
- Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 106,095; Oct. 12; Gaz. vol. 219; p. 581.
- Oils and lubricants, Fuel-. California Compounding Company. No. 103,581; Apr. 6; Gaz. vol. 213; p. 356.
- Oils and lubricants, Lubricating-. B. G. Desmond. No. 104,603; June 8; Gaz. vol. 215; p. 661.
- Oils, Chemicals for emulsifying mineral. National Oil Products Co. No. 103,323; Mar. 30; Gaz. vol. 212; p. 1684.
- Oils, Fuel-. Union Oil Company of California. No. 103,737; Apr. 13; Gaz. vol. 213; p. 742.
- Oils, gasoline, naphtha, &c., Wool-. Crew Levick Company. No. 103,094; Mar. 16; Gaz. vol. 212; p. 1052.
- Oils, greases, and compounds, Lubricating. The Phoenix Oil Co. No. 107,193; Nov. 16; Gaz. vol. 220; p. 1036.
- Oils, greases, candles, and paraffin-wax. The Atlantic Refining Company. No. 102,243; Feb. 2; Gaz. vol. 211; p. 279.
- Oils, Illuminating-. Vacuum Oil Company. No. 101,992; Jan. 19; Gaz. vol. 210; p. 1062.
- Oils, Illuminating, power, and lubricating. D. E. Aunkst. No. 102,244; Feb. 2; Gaz. vol. 211; p. 279.
- Oils, Intensifier for hydrocarbon. The Buckley Refining Company. No. 102,855; Feb. 23; Gaz. vol. 211; p. 1260.
- Oils, lacquers, enamels, and paints. Paint-. A. Elchier. No. 106,148; Oct. 12; Gaz. vol. 219; p. 583.
- Oils, Lubricating-. M. H. Dodge. No. 101,924; Jan. 19; Gaz. vol. 210; p. 1060.
- Oils, Lubricating-. Schliemann's Oil & Ceresine Company. Nos. 103,765-6; Apr. 13; Gaz. vol. 213; p. 745.
- Oils, Lubricating-. The Texas Company. No. 107,109; Nov. 9; Gaz. vol. 220; p. 674.

Alphabetical list of trade-marks—Continued.

- Oils, Lubricating-. Tiona Oil Company. No. 104,271; May 11; Gaz. vol. 214; p. 679.
- Oils, Lubricating-. Union Oil Company of California. No. 107,797; Dec. 28; Gaz. vol. 221; p. 1447.
- Oils, Lubricating-. John B. Varick Company. No. 106,916; Nov. 2; Gaz. vol. 220; p. 346.
- Oils, Olive-. A. Mazzinghi. No. 104,004; Apr. 27; Gaz. vol. 213; p. 1441.
- Oils, Pure olive-. A. Novaro. No. 106,080; Oct. 5; Gaz. vol. 219; p. 267.
- Oils, Table-. Bartolo Bendin, Inc. No. 106,935; Nov. 9; Gaz. vol. 220; p. 669.
- Oiled clothing. A. J. Tower Company. No. 105,703; Aug. 10; Gaz. vol. 217; p. 697.
- Ointment. J. R. A. Brown. No. 104,929; June 29; Gaz. vol. 215; p. 1493.
- Ointment. E. Burgess. No. 102,038; Jan. 26; Gaz. vol. 210; p. 1388.
- Ointment. The Dennis Manufacturing Company. No. 107,157; Nov. 16; Gaz. vol. 220; p. 1035.
- Ointment. J. Fay. No. 104,719; June 15; Gaz. vol. 215; p. 971.
- Ointment. The Glessner Medicine Co. No. 106,962; Nov. 9; Gaz. vol. 220; p. 670.
- Ointment. C. Hixon. No. 102,894; Mar. 2; Gaz. vol. 212; p. 323.
- Ointment. S. I. Irwin. No. 107,070; Nov. 9; Gaz. vol. 220; p. 673.
- Ointment. Krinol Chemical Co. No. 105,498; July 27; Gaz. vol. 216; p. 1315.
- Ointment. E. I. Leighton. No. 104,982; June 29; Gaz. vol. 215; p. 1494.
- Ointment. W. B. Ridgely. No. 106,181; Oct. 12; Gaz. vol. 219; p. 584.
- Ointment, Antiseptic. A. W. Van Alstine. No. 102,219; Jan. 26; Gaz. vol. 210; p. 1393.
- Ointment, Compound sulfur. Menley & James. No. 104,463; June 1; Gaz. vol. 215; p. 318.
- Ointment for all itchinness of the skin. S. Fargo. No. 102,753; Feb. 23; Gaz. vol. 211; p. 1257.
- Ointment for human use. M. Veno. No. 107,402; Nov. 23; Gaz. vol. 220; p. 1370.
- Ointment for inflammation of udders, caked udders, &c., of cows. R. Crandall. No. 101,700; Jan. 5; Gaz. vol. 210; p. 395.
- Ointment for irritation or inflammation of the mucous membrane. F. W. Schoonmaker. No. 104,888; June 22; Gaz. vol. 215; p. 1259.
- Ointment, Medicated. The American Ointment Co. Nos. 105,307-8; July 20; Gaz. vol. 216; p. 1007.
- Ointment or in plasters, Medicated compound for use as. E. M. Pond. No. 102,439; Feb. 9; Gaz. vol. 211; p. 636.
- Ointments. Biz-Nes Drug Company. No. 106,552; Oct. 26; Gaz. vol. 219; p. 1227.
- Ointments. Nelson, Baker & Co. No. 105,272; July 13; Gaz. vol. 216; p. 660.
- Oleomargarin. H. H. Butler. No. 105,971; Sept. 7; Gaz. vol. 213; p. 317.
- Oleomargarin. R. B. Cramer. No. 104,211; May 11; Gaz. vol. 214; p. 677.
- Oleomargarin. Eckerson Company. No. 103,690; Apr. 13; Gaz. vol. 213; p. 740.
- Oleomargarin. Geo. P. Braun Company. No. 107,660; Dec. 14; Gaz. vol. 221; p. 733.
- Oleomargarin. James T. Downey Company. No. 102,514; Feb. 9; Gaz. vol. 211; p. 638.
- Oleomargarin. James T. Downey Company. No. 103,228; Mar. 23; Gaz. vol. 212; p. 1354.
- Oleomargarin. The Ohio Butterine Co. No. 107,366; Nov. 23; Gaz. vol. 220; p. 1368.
- Oleomargarin and butterin. John F. Jelke Co. No. 103,320; Mar. 30; Gaz. vol. 212; p. 1684.
- Oleomargarin and butterin. John F. Jelke Co. No. 103,321; Mar. 30; Gaz. vol. 212; p. 1684.
- Oleomargarin and butterin. John F. Jelke Co. No. 104,148; May 4; Gaz. vol. 214; p. 340.
- Oleomargarin, butter, and eggs. Eckerson Company. No. 107,159; Nov. 16; Gaz. vol. 220; p. 1035.
- Olives. Curtis Olive Corporation. No. 104,974; June 29; Gaz. vol. 215; p. 1494.
- Olives. Curtis Olive Corporation. No. 107,604; Dec. 14; Gaz. vol. 221; p. 732.
- Ophthalmic mountings and parts. American Optical Company. No. 101,822; Jan. 12; Gaz. vol. 210; p. 712.
- Ophthalmic mountings and parts thereof. T. A. Willson & Co. No. 102,482; Feb. 9; Gaz. vol. 211; p. 637.
- Ophthalmic mountings and parts thereof. T. A. Willson & Co. No. 104,113; Apr. 27; Gaz. vol. 213; p. 1444.
- Oranges. McLees Bros. No. 106,879; Nov. 2; Gaz. vol. 220; p. 344.
- Oranges. Placencia Mutual Orange Association. No. 103,704; Apr. 13; Gaz. vol. 213; p. 741.
- Oranges. Placencia Mutual Orange Association. Nos. 103,838-9; Apr. 13; Gaz. vol. 213; p. 745.
- Oranges and grape-fruit. F. C. Armstrong. No. 103,337; Mar. 30; Gaz. vol. 212; p. 1655.
- Oranges and grape-fruit. Manatee Fruit Co. No. 102,572; Feb. 16; Gaz. vol. 211; p. 951.
- Oranges and grape-fruit. Smyrna & Hawk Park Citrus Growers Association. No. 104,578; June 1; Gaz. vol. 215; p. 321.
- Oranges and grape-fruit. J. S. Taylor Company. No. 107,026; Nov. 9; Gaz. vol. 220; p. 672.
- Oranges and lemons. The Leffingwell Rancho, Inc. No. 102,526; Feb. 9; Gaz. vol. 211; p. 639.
- Oranges, grape-fruit, and tangerines. J. J. Parrish. No. 104,475; June 1; Gaz. vol. 215; p. 318.
- Oranges, lemons, and walnuts. Leffingwell Rancho, Inc. No. 102,525; Feb. 9; Gaz. vol. 211; p. 639.
- Oranges, lemons, limes, and grape-fruit, Fresh. Elephant Orchards. No. 107,161; Nov. 16; Gaz. vol. 220; p. 1035.
- Organs and pianos. The B. Shoninger Co. Nos. 104,267-8; May 11; Gaz. vol. 214; p. 679.
- Organs, Mechanically or automatically operated actions to play. Foley & Williams Piano Co. No. 104,016; Apr. 27; Gaz. vol. 213; p. 1441.
- Organs, Monthly house. Young, Smyth, Field Company. No. 104,344; May 18; Gaz. vol. 214; p. 1023.
- Outer suits and overcoats, Men's and youths'. S. Rosenthal & Bros. No. 106,507; Oct. 19; Gaz. vol. 219; p. 926.
- Overalls. The Globe Overall Company. No. 107,169; Nov. 16; Gaz. vol. 220; p. 1036.
- Overalls. Jiffy Apron Company. No. 102,521; Feb. 9; Gaz. vol. 211; p. 638.
- Overalls. Neustadter Bros. No. 106,791; Oct. 26; Gaz. vol. 219; p. 1234.
- Overalls. The H. L. Willing Co. No. 105,706; Aug. 10; Gaz. vol. 217; p. 697.
- Overalls and jumpers. Western Union Mfg. Co. No. 102,231; Jan. 26; Gaz. vol. 210; p. 1393.
- Overalls and outer garments. Hamilton Carhartt Manufacturer. No. 107,571; Dec. 14; Gaz. vol. 221; p. 731.
- Overalls and work-shirts, Textile. Hirsch Mfg. Co. No. 105,515; Aug. 3; Gaz. vol. 217; p. 335.
- Overalls, jackets, men's pants, vests, and coats. A. Mathias & Co. No. 104,060; Apr. 27; Gaz. vol. 213; p. 1443.
- Overalls, jackets, trousers, and work-shirts, Men's. J. Baker & Sons. No. 101,669; Jan. 5; Gaz. vol. 210; p. 394.
- Overalls, jumpers, coats, and trousers. Rose-Rogers Co. Nos. 106,505-6; Oct. 19; Gaz. vol. 219; p. 926.
- Overalls, jumpers, overall coats and pants. Rose-Rogers Co. No. 104,953; June 29; Gaz. vol. 215; p. 1494.
- Overalls, jumpers, work pants and shirts, &c. Rice Stix Dry Goods Company. No. 104,363; May 25; Gaz. vol. 214; p. 1315.
- Overalls, Men's and boys'. J. Baker & Sons. No. 104,926; June 29; Gaz. vol. 215; p. 1493.
- Overalls, trousers, coats, &c. Marglos Manufacturing Company. No. 102,944; Mar. 2; Gaz. vol. 212; p. 324.
- Overalls, trousers, shirts, &c. D. M. Oberman Mfg. Company. No. 103,324; Mar. 30; Gaz. vol. 212; p. 1684.
- Overcoats. A. Decker & Cohn. No. 103,891; Apr. 20; Gaz. vol. 213; p. 1112.
- Overcoats. Rothstein, Rosenberg & Salny. No. 105,081; July 6; Gaz. vol. 216; p. 322.
- Overcoats, coats, vests, and trousers. C. J. Goodman. No. 102,090; Jan. 26; Gaz. vol. 210; p. 1389.
- Overcoats, suits, ulsters, &c. Heidelberg, Wolff & Co. No. 105,691; Aug. 10; Gaz. vol. 217; p. 696.
- Oxidation-preventive. E. F. Houghton & Company. No. 102,104; Jan. 26; Gaz. vol. 210; p. 1390.
- Oysters, Blue point. N. S. Ackerly & Son Company. No. 107,800; Dec. 28; Gaz. vol. 221; p. 1447.
- Oysters, clams, &c. Smith's Island Oyster Company. No. 103,572; Apr. 6; Gaz. vol. 213; p. 356.
- Oysters, Fresh. C. B. Muench Co. No. 104,628; June 8; Gaz. vol. 215; p. 662.
- Packing, Composite machine-. P. W. Koebig. No. 103,663; Apr. 13; Gaz. vol. 213; p. 739.
- Packing, Composition. Stewart Dickson & Company. No. 105,193; July 13; Gaz. vol. 216; p. 657.
- Packing, hose, belting, and washers. Small & Parkes. No. 103,683; Apr. 13; Gaz. vol. 213; p. 740.
- Packing, Machinery. The Mechanical Rubber Company. No. 107,713; Dec. 21; Gaz. vol. 221; p. 1036.
- Packing, Non-metallic machinery. Bowers Rubber Works. No. 103,150; Mar. 16; Gaz. vol. 212; p. 1053.
- Packing-rings for explosive, &c., engines, Metallic. R. L. Burd. No. 103,152; Mar. 16; Gaz. vol. 212; p. 1053.
- Packing, Sheet. The Mechanical Rubber Company. No. 103,667; Apr. 13; Gaz. vol. 213; p. 740.
- Packings and rubber hose. Wyckoff & Lloyd Company. No. 107,036; Nov. 9; Gaz. vol. 220; p. 672.
- Packings for gas-pipe joints. A. S. Miller. No. 104,122; May 4; Gaz. vol. 214; p. 339.
- Packings, Rubber and composition. The Mechanical Rubber Company. No. 106,352; Oct. 19; Gaz. vol. 219; p. 922.
- Paint and preservative for metallic surfaces, Liquid. Black Dazzle Co. No. 105,182; July 13; Gaz. vol. 216; p. 657.
- Paint and varnish removers. Simplex Manufacturing Co. No. 104,183; May 4; Gaz. vol. 214; p. 341.
- Paint, Disinfecting-. Tmco Mfg. Co. No. 106,522; Oct. 19; Gaz. vol. 219; p. 927.
- Paint for certain named purposes, Ready-mixed. Engineering Products Corporation. No. 107,818; Dec. 23; Gaz. vol. 221; p. 1447.

- Paint for screen-surfaces. A. D. Standeford. No. 105,174; July 6; Gaz. vol. 216; p. 325.
- Paint or varnish removers and the like. New Era Remover Company. No. 106,475; Oct. 19; Gaz. vol. 219; p. 925.
- Paint, Protective. Wadsworth, Howland & Co. No. 102,824; Feb. 23; Gaz. vol. 211; p. 1259.
- Paint, Ready-mixed. D-D. Screen Paint Company. No. 107,155; Nov. 16; Gaz. vol. 220; p. 1035.
- Paint, Ready-mixed. United States Gutta Percha Paint Company. No. 102,217; Jan. 26; Gaz. vol. 210; p. 1393.
- Paint, Ready-mixed liquid. Patton Paint Company. No. 103,007; Mar. 16; Gaz. vol. 212; p. 1049.
- Paint, White. The Sherwin-Williams Co. No. 107,452; Nov. 30; Gaz. vol. 220; p. 1715.
- Paints. Amalgamated Paint Company. No. 107,827; Dec. 28; Gaz. vol. 221; p. 1448.
- Paints. MacAndrews and Forbes Company. No. 105,824; Aug. 17; Gaz. vol. 217; p. 1052.
- Paints. The Western Elaterite Roofing Company. No. 103,136; Mar. 16; Gaz. vol. 212; p. 1053.
- Paints and painters' materials. E. E. Nice. No. 106,888; Nov. 2; Gaz. vol. 220; p. 345.
- Paints and painters' materials, Certain named. The Bridgeport Wood Finishing Co. No. 104,299; May 18; Gaz. vol. 214; p. 1021.
- Paints and painters' materials, Certain named. D-P-W Company. No. 102,648; Feb. 16; Gaz. vol. 211; p. 953.
- Paints and painters' materials, Certain named. W. C. De Armond. Nos. 101,833-4; Jan. 12; Gaz. vol. 210; p. 712.
- Paints and painters' materials, Certain named. Pratt & Lambert. No. 105,610; Aug. 10; Gaz. vol. 217; p. 694.
- Paints and painters' supplies, Certain named. C. R. Cook Paint Company. No. 102,063; Jan. 26; Gaz. vol. 210; p. 1388.
- Paints and painters' supplies, Certain named. E. E. Nice. No. 104,775; June 15; Gaz. vol. 215; p. 973.
- Paints and painters' supplies, Certain named. Paint Products Co. No. 105,273; July 13; Gaz. vol. 216; p. 660.
- Paints and varnishes. Aktiengesellschaft Johannes Jesele. No. 106,086; Oct. 12; Gaz. vol. 219; p. 581.
- Paints and varnishes. Firm of J. D. Flügger. No. 101,628; Jan. 5; Gaz. vol. 210; p. 393.
- Paints and varnishes. Union Paint & Varnish Co. No. 101,808; Jan. 12; Gaz. vol. 210; p. 711.
- Paints and varnishes, Ready-mixed and semipaste. The Atlas Paint Company. Nos. 101,897-8; Jan. 19; Gaz. vol. 210; p. 1059.
- Paints, dressings, and finishes for vehicle-tops. J. Mansfeld. No. 102,977; Mar. 9; Gaz. vol. 212; p. 685.
- Paints, driers, enamels, &c. The Patterson-Sargent Company. No. 106,668; Oct. 26; Gaz. vol. 219; p. 1230.
- Paints, Dry and ready-mixed. Black Diamond Manufacturing Co. No. 107,226; Nov. 16; Gaz. vol. 220; p. 1038.
- Paints, enamels, and varnishes having a cellulose base. Geo. Borgfeldt & Co. No. 105,931; Aug. 31; Gaz. vol. 217; p. 1657.
- Paints, lacs, stains, &c. Davies & Meacham. Nos. 106,572-6; Oct. 26; Gaz. vol. 219; p. 1228.
- Paints, lacs, stains, &c. Davies & Meacham. Nos. 106,748-50; Oct. 26; Gaz. vol. 219; p. 1233.
- Paints, Mixed. Detroit Graphite Co. No. 104,251; May 11; Gaz. vol. 214; p. 678.
- Paints, Mixed. Donaldson and Donaldson. No. 104,212; May 11; Gaz. vol. 214; p. 677.
- Paints, Oil and water proof. Toch Brothers. No. 105,702; Aug. 10; Gaz. vol. 217; p. 697.
- Paints, paint colors and pigments. Clinton Metallic Paint Co. No. 106,217; Oct. 19; Gaz. vol. 219; p. 917.
- Paints, paint-oils, and wood-stain. Waterproofing. Bruno Grosche & Company. No. 106,430; Oct. 19; Gaz. vol. 219; p. 924.
- Paints, Paste and ready-mixed. Barrett Manufacturing Company. No. 106,828; Nov. 2; Gaz. vol. 220; p. 343.
- Paints, Protective iron and steel. Trussed Concrete Steel Company. No. 104,552; June 1; Gaz. vol. 215; p. 320.
- Paints, Ready-mixed. The A. Wilhelm Company. No. 103,308; Mar. 30; Gaz. vol. 212; p. 1684.
- Paints, Ready-mixed. Toch Brothers. No. 103,302; Mar. 30; Gaz. vol. 212; p. 1684.
- Paints, Ready-mixed liquid. Patton Paint Company. No. 105,122; July 6; Gaz. vol. 216; p. 323.
- Paints, Ready-mixed waterproof. Toch Brothers. No. 107,399; Nov. 23; Gaz. vol. 220; p. 1369.
- Paints, stains, varnishes, &c. John Lucas & Company. Nos. 102,128-9; Jan. 26; Gaz. vol. 210; p. 1390.
- Paints, varnishes, and enamels. Mill-mixed liquid. King Paint Mfg. Co. No. 104,944; June 29; Gaz. vol. 215; p. 1493.
- Paints, varnishes, and enamels. Prepared. King Paint Mfg. Co. No. 104,511; June 1; Gaz. vol. 215; p. 319.
- Paints, varnishes, enamels, and paint-oils. The Charles H. Brown Paint Co. No. 106,832; Nov. 2; Gaz. vol. 220; p. 343.
- Paints, varnishes, &c. Liquid. Carpenter-Morton Company. No. 107,414; Nov. 23; Gaz. vol. 220; p. 1370.
- Paints, varnishes, stains, &c. The Vaughan Paint Company. No. 103,577; Apr. 6; Gaz. vol. 213; p. 356.
- Painters' dusters and brushes. Assam Brothers. No. 107,306; Nov. 23; Gaz. vol. 220; p. 1367.
- Painting-booths. The De Vilbiss Manufacturing Company. No. 102,743; Feb. 23; Gaz. vol. 211; p. 1257.
- Paper. C. Beck Company. No. 102,357; Feb. 9; Gaz. vol. 211; p. 634.
- Paper. Odell Manufacturing Company. No. 102,437; Feb. 9; Gaz. vol. 211; p. 636.
- Paper and envelopes and writing pads and tablets. Writing. The Taylor-Atkins Paper Company. No. 101,885; Jan. 12; Gaz. vol. 210; p. 714.
- Paper and stationery, Certain. C. Beck Company. No. 107,679; Dec. 21; Gaz. vol. 221; p. 1035.
- Paper and stationery supplies. Low Cost Company. No. 104,059; Apr. 27; Gaz. vol. 213; p. 1443.
- Paper and stationery, Certain named. William Mann Company. No. 106,986; Nov. 9; Gaz. vol. 220; p. 671.
- Paper and stationery, Certain named. Yawman & Erbe Mfg. Co. No. 107,037; Nov. 9; Gaz. vol. 220; p. 672.
- Paper and stationery supplies, Certain named. Geo. Borgfeldt & Co. No. 102,676; Feb. 23; Gaz. vol. 211; p. 1255.
- Paper and stationery supplies, Certain named. Geo. Borgfeldt & Co. Nos. 103,887-8; Apr. 20; Gaz. vol. 213; p. 1112.
- Paper and stationery supplies, Certain named. Geo. Borgfeldt & Co. No. 105,149; July 6; Gaz. vol. 216; p. 324.
- Paper and stationery supplies, Certain named. Dennison Manufacturing Company. No. 104,710; June 15; Gaz. vol. 215; p. 971.
- Paper and stationery supplies, Certain named. A. Langstadter. No. 106,981; Nov. 9; Gaz. vol. 220; p. 671.
- Paper and stationery supplies, Certain named. F. Soenneken. No. 105,173; July 6; Gaz. vol. 216; p. 325.
- Paper and type-writer ribbons. Carbon. Peerless Carbon & Ribbon Mfg. Co. No. 106,254; Oct. 19; Gaz. vol. 219; p. 919.
- Paper bags. Badger Bag & Paper Co. Nos. 102,492-505; Feb. 9; Gaz. vol. 211; p. 638.
- Paper bags. Badger Bag & Paper Co. Nos. 104,372-5; May 25; Gaz. vol. 214; p. 1316.
- Paper bags. Crown Willamette Paper Co. No. 106,414; Oct. 19; Gaz. vol. 219; p. 924.
- Paper bags. Schorsch & Co. No. 106,909; Nov. 2; Gaz. vol. 220; p. 345.
- Paper bags. The Union Bag & Paper Company. Nos. 106,703-5; Oct. 26; Gaz. vol. 219; p. 1232.
- Paper-board. The West Jersey Paper Manufacturing Company. Nos. 107,872-3; Dec. 28; Gaz. vol. 221; p. 1440.
- Paper-board and wrapping-paper. California Paper & Board Mills. No. 103,374; Mar. 30; Gaz. vol. 212; p. 1686.
- Paper, Bond-. R. P. Andrews Paper Company. No. 105,711; Aug. 17; Gaz. vol. 217; p. 1049.
- Paper, Bond-. C. Beck Company. No. 102,248; Feb. 2; Gaz. vol. 211; p. 279.
- Paper, Bond and ledger. Russell Falls Company. Nos. 106,369-70; Oct. 19; Gaz. vol. 219; p. 922.
- Paper, Bond and writing. Blake, Moffitt & Towne. No. 103,410; Apr. 6; Gaz. vol. 213; p. 351.
- Paper, Bonds and writing-. Neenah Paper Company. No. 107,693; Dec. 21; Gaz. vol. 221; p. 1035.
- Paper boxes. A. T. Harrell. No. 106,766; Oct. 26; Gaz. vol. 219; p. 1233.
- Paper boxes, Folding. Morris Fibre Board Company. No. 106,353; Oct. 19; Gaz. vol. 219; p. 922.
- Paper, Building and roofing. Central Ohio Paper Co. No. 101,771; Jan. 12; Gaz. vol. 210; p. 710.
- Paper, Carbon-. E. H. Walsh. No. 103,456; Apr. 6; Gaz. vol. 213; p. 352.
- Paper case-linings. Waterproof-. National Water-Proofing Company. No. 103,070; Mar. 16; Gaz. vol. 212; p. 1051.
- Paper, Certain named. Kellogg Toasted Corn Flake Company. No. 102,924; Mar. 2; Gaz. vol. 212; p. 324.
- Paper-clips. Metallic. Defiance Manufacturing Company. No. 102,379; Feb. 9; Gaz. vol. 211; p. 634.
- Paper, corrugated paper, paper and fiber boards, &c. The Hinde & Dauch Paper Co. No. 102,879; Feb. 23; Gaz. vol. 211; p. 1261.
- Paper, Cover-. Strathmore Paper Company. No. 106,380; Oct. 19; Gaz. vol. 219; p. 923.
- Paper cups. Public Service Cup Company. No. 101,649; Jan. 5; Gaz. vol. 210; p. 394.
- Paper drinking-cups. The Vortex Mfg. Co. No. 103,303; Mar. 30; Gaz. vol. 212; p. 1684.
- Paper drinking-cups and cartons and cabinets to contain same. United States Envelope Company. Nos. 104,401-3; May 25; Gaz. vol. 214; p. 1316.
- Paper, envelops, and gummed tape. Wrapping and writing. A. R. Rapp. No. 102,690; Feb. 23; Gaz. vol. 211; p. 1255.
- Paper, envelops, lead-pencils, &c. Toilet, printing, &c. Klaubner Wannenheim Co. No. 102,897; Mar. 2; Gaz. vol. 212; p. 323.
- Paper, envelops, tablets, &c. Writing and printing. Eaton, Crane & Pike Company. No. 104,179; May 4; Gaz. vol. 214; p. 341.
- Paper envelops, writing and blotting paper, &c. The St. Joseph Paper Company. No. 101,685; Jan. 5; Gaz. vol. 210; p. 395.
- Paper for manufacture of blank and loose-leaf books, Writing-. Boorum & Pease Co. No. 102,032; Jan. 26; Gaz. vol. 210; p. 1387.

Alphabetical list of trade-marks—Continued.

- Paper, Folding coated. Stone & Andrew. No. 107,504; Dec. 7; Gaz. vol. 221; p. 346.
- Paper ice and nursery blankets. Kalamazoo Vegetable Parchment Company. No. 104,456; June 1; Gaz. vol. 215; p. 317.
- Paper-making machinery. J. Marx & Company. No. 106,114; Oct. 12; Gaz. vol. 219; p. 581.
- Paper other than carbon or coated manifold papers, Writing and type-writing. S. J. Mitchell. Nos. 106,244-5; Oct. 19; Gaz. vol. 219; p. 918.
- Paper, paper napkins and towels, Toilet-. Albany Perforated Wrapping Paper Co. No. 106,922; Nov. 9; Gaz. vol. 220; p. 669.
- Paper, Printing and writing. Whiting-Plover Paper Co. No. 103,306; Mar. 30; Gaz. vol. 212; p. 1684.
- Paper products, Plain, embossed, &c. Milwaukee Lace Paper Company. No. 103,759; Apr. 13; Gaz. vol. 213; p. 742.
- Paper, Sensitized photographic. Eastman Kodak Co. No. 102,857; Feb. 23; Gaz. vol. 211; p. 1260.
- Paper, Sensitized photographic. Eastman Kodak Co. No. 104,254; May 11; Gaz. vol. 214; p. 679.
- Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 105,094; July 6; Gaz. vol. 216; p. 322.
- Paper, Toilet-. Albany Perforated Wrapping Paper Co. No. 106,134; Oct. 12; Gaz. vol. 219; p. 582.
- Paper, Toilet-. Albany Perforated Wrapping Paper Company. Nos. 107,729-30; Dec. 28; Gaz. vol. 221; p. 1445.
- Paper, Toilet-. L. R. Fisher. No. 106,759; Oct. 26; Gaz. vol. 219; p. 1233.
- Paper, Toilet-. The John Hoberg Co. No. 106,439; Oct. 19; Gaz. vol. 219; p. 924.
- Paper, Toilet-. The John Hoberg Company. No. 106,609; Oct. 26; Gaz. vol. 219; p. 1229.
- Paper, Toilet-. The John Hoberg Company. Nos. 107,811-12; Dec. 28; Gaz. vol. 221; p. 1447.
- Paper, Toilet-. A. U. Morse. No. 105,861; Aug. 24; Gaz. vol. 217; p. 1335.
- Paper, Toilet-. Paper Sales Company. No. 107,727; Dec. 21; Gaz. vol. 221; p. 1036.
- Paper, Toilet-. Sauquoit Toilet Paper Co. Nos. 104,779-83; June 15; Gaz. vol. 215; p. 973.
- Paper, Toilet-. Sauquoit Toilet Paper Co. No. 105,674; Aug. 10; Gaz. vol. 217; p. 696.
- Paper, Toilet-. Sauquoit Toilet Paper Co. Nos. 107,671-2; Dec. 14; Gaz. vol. 221; p. 734.
- Paper, Toilet-. Sauquoit Toilet Paper Co. No. 107,695; Dec. 21; Gaz. vol. 221; p. 1035.
- Paper, Toilet-. Sauquoit Toilet Paper Co. Nos. 107,860-2; Dec. 28; Gaz. vol. 221; p. 1449.
- Paper, Toilet, writing, printing, &c. C. H. Dexter & Sons. No. 104,712; June 15; Gaz. vol. 215; p. 971.
- Paper towels and napkins. Central Paper Company. No. 106,064; Sept. 28; Gaz. vol. 218; p. 1153.
- Paper towels or paper suitable for towels and treated so as to be antiseptic. West Disinfecting Company. No. 102,665; Feb. 16; Gaz. vol. 211; p. 954.
- Paper towels, table-covers, diapers, and toilet-paper. Scott Paper Company. No. 106,690; Oct. 26; Gaz. vol. 219; p. 1231.
- Paper, Tracing-. Crane & Co. No. 106,090; Oct. 12; Gaz. vol. 219; p. 581.
- Paper, Tracing-. Keuffel & Esser Company. No. 102,116; Jan. 26; Gaz. vol. 210; p. 1390.
- Papers, Wall-. Asam Brothers. No. 106,929; Nov. 9; Gaz. vol. 220; p. 669.
- Paper, Wall-. Standard Wall Paper Co. No. 105,761; Aug. 17; Gaz. vol. 217; p. 1050.
- Paper, Waterproof. The Stork Company. No. 101,985; Jan. 19; Gaz. vol. 210; p. 1061.
- Paper wrappers for food products. Nashua Card Gummed & Coated Paper Company. No. 104,260; May 11; Gaz. vol. 214; p. 679.
- Paper, Wrapping-. Badger Bag & Paper Co. No. 104,524; June 1; Gaz. vol. 215; p. 319.
- Paper, Writing-. American Pad & Paper Company. No. 106,281; Oct. 19; Gaz. vol. 219; p. 919.
- Paper, Writing-. Crane & Co. Nos. 104,046-9; Apr. 27; Gaz. vol. 213; pp. 1442-3.
- Paper, Writing-. E. E. Lloyd Paper Co. No. 104,461; June 1; Gaz. vol. 215; p. 317.
- Paper, Writing-. H. A. Sarle. No. 104,778; June 15; Gaz. vol. 215; p. 973.
- Paper, Writing-. H. A. Sarle. No. 106,801; Oct. 26; Gaz. vol. 219; p. 1235.
- Paper, Writing-. Taylor-Logan Co. Papermakers. No. 105,829; Aug. 17; Gaz. vol. 217; p. 1052.
- Paper, Writing-. The United Jewelers Inc. No. 107,653; Dec. 14; Gaz. vol. 221; p. 733.
- Paper, Writing and printing. M. Grenebaum. No. 105,689; Aug. 10; Gaz. vol. 217; p. 696.
- Paper, Writing and printing. The Myself-Rollins Bank Note Company. No. 107,807; Dec. 28; Gaz. vol. 221; p. 1447.
- Paper, Writing and printing. Parsons Paper Company. No. 102,160; Jan. 26; Gaz. vol. 210; p. 1391.
- Paper, Writing and printing. Parsons Paper Company. No. 103,675; Apr. 13; Gaz. vol. 213; p. 740.
- Paper, Writing and printing. W. E. Wright. No. 103,019; Mar. 16; Gaz. vol. 212; p. 1049.
- Papers for remanufacture. Waste printed. W. V. Bowater & Sons. No. 104,298; May 18; Gaz. vol. 214; p. 1021.
- Papers, Ledger and writing. Whiting Paper Company. No. 103,305; Mar. 30; Gaz. vol. 212; p. 1684.
- Papers, Photographic developing-out. Burke & James. No. 105,336; July 20; Gaz. vol. 216; p. 1008.
- Papers, Printing and writing. National Papeterie Company. No. 107,477; Dec. 7; Gaz. vol. 221; p. 345.
- Papers, Printing, writing, and cover. Hudson Valley Paper Co. No. 106,442; Oct. 19; Gaz. vol. 219; p. 934.
- Papers, Wall-. Imperial Wall Paper Company. No. 106,157; Oct. 12; Gaz. vol. 219; p. 583.
- Paprika. M. P. Kuczor. No. 103,004; Mar. 16; Gaz. vol. 212; p. 1049.
- Paprika. H. Schoenfeld. No. 101,719; Jan. 5; Gaz. vol. 210; p. 396.
- Paraffin, Liquid. Standard Oil Company. No. 103,736; Apr. 13; Gaz. vol. 213; p. 742.
- Paraffin, Refined liquid. The Stern Sonneborn Oil Co. No. 106,697; Oct. 26; Gaz. vol. 219; p. 1231.
- Partitions and parts and sections thereof, Interior. Improved Office Partition Co. No. 102,566; Feb. 16; Gaz. vol. 211; p. 951.
- Partitions, doors, bronze and steel work for banks, &c., railings, and stairs. Art Metal Construction Co. No. 107,140; Nov. 16; Gaz. vol. 220; p. 1035.
- Paste, Adhesive. The Carter's Ink Company. No. 105,714; Aug. 17; Gaz. vol. 217; p. 1049.
- Paste, Tooth-. New England Laboratory Co. No. 104,102; Apr. 27; Gaz. vol. 213; p. 1444.
- Pastes comprising spaghetti, noodles, and "alphabets," Italian. S. S. Pierce Co. No. 107,276; Nov. 16; Gaz. vol. 220; p. 1039.
- Pasteurizers. S. Shapiro. No. 103,734; Apr. 13; Gaz. vol. 213; p. 742.
- Pastilles. Ungemach, A.-G. Els. Conserven-Fabrik & Import-Gesellschaft. No. 101,807; Jan. 12; Gaz. vol. 210; p. 711.
- Pastry cones. E. A. Hamwi. No. 105,588; Aug. 10; Gaz. vol. 217; p. 693.
- Patterns. The Vogue Company. No. 102,701; Feb. 23; Gaz. vol. 211; p. 1256.
- Patterns. The Vogue Company. No. 103,770; Apr. 13; Gaz. vol. 213; p. 743.
- Patterns, Garment-. The Vanity Fair Publishing Company. No. 105,281; July 13; Gaz. vol. 216; p. 660.
- Pavement, paving and building blocks, Sheet-. Uvalde Rock Asphalt Co. No. 102,316; Feb. 2; Gaz. vol. 211; p. 281.
- Paving blocks, Wood. American Creosoting Company. No. 104,296; May 18; Gaz. vol. 214; p. 1021.
- Paving composition, Bituminous and alkaline. J. H. Amies. No. 104,066; Apr. 27; Gaz. vol. 213; p. 1443.
- Peanut-brittle. Powell's. No. 105,123; July 6; Gaz. vol. 216; p. 323.
- Peanut-butter. G. P. Mariner. No. 107,618; Dec. 14; Gaz. vol. 221; p. 732.
- Peanuts and peanut-butter. Bosman & Lohman Co. No. 105,686; Aug. 10; Gaz. vol. 217; p. 696.
- Peanuts and peanut-butter. Fletcher & Wilson Coffee Co. No. 104,609; June 8; Gaz. vol. 215; p. 661.
- Peanuts, Fresh, salted, and roasted. Werden & Co. No. 106,715; Oct. 26; Gaz. vol. 219; p. 1232.
- Peanuts, Salted. M. P. Taylor. No. 105,000; June 29; Gaz. vol. 215; p. 1495.
- Pearls, Imitation. Albert Lorsch & Co. No. 102,532; Feb. 9; Gaz. vol. 211; p. 639.
- Pearls, rubies, emeralds, sapphires, and other gems, Imitation, &c. F. J. Goldsoll. No. 107,782; Dec. 28; Gaz. vol. 221; p. 1446.
- Peat. E. Dyckerhoff. No. 106,584; Oct. 26; Gaz. vol. 219; p. 1228.
- Pencil and penholder trays and easels, Lead-. Eagle Pencil Company. No. 105,978; Sept. 7; Gaz. vol. 218; p. 317.
- Pencil-sharpeners. Automatic Pencil Sharpener Company. No. 102,245; Feb. 2; Gaz. vol. 211; p. 279.
- Pencil-sharpeners. The Stewart Manufacturing Company. No. 103,365; Mar. 30; Gaz. vol. 212; p. 1685.
- Pencils, Graphite drawing-. The Keuffel & Esser Company. No. 102,418; Feb. 9; Gaz. vol. 211; p. 635.
- Pencils, Lead-. The Joseph Dixon Crucible Company. No. 107,493; Dec. 7; Gaz. vol. 221; p. 346.
- Pencils, Lead-. E. Faber. No. 102,396; Feb. 9; Gaz. vol. 211; p. 635.
- Pencils, rubber erasers, penholders. A. W. Faber. No. 103,421; Apr. 6; Gaz. vol. 213; p. 351.
- Pencils, rubber pencils and erasers, penholders, Lead, &c. A. W. Faber. No. 102,891; Mar. 2; Gaz. vol. 212; p. 323.
- Pencils, Writing and drawing. H. S. Crocker Company. No. 103,226; Mar. 23; Gaz. vol. 212; p. 1354.
- Pencils, Writing and drawing. Eagle Pencil Company. No. 101,626; Jan. 5; Gaz. vol. 210; p. 393.
- Pens and ink-pencils, Fountain-. J. Ullrich. No. 103,600; Apr. 6; Gaz. vol. 213; p. 357.
- Pens and penholders, Steel. Hinks, Wells & Co. No. 106,101; Oct. 12; Gaz. vol. 219; p. 581.
- Pens, file-signals, index-tabs, &c., Metallic. George B. Graff Company. No. 103,233; Mar. 23; Gaz. vol. 212; p. 1354.
- Pens, Fountain-. Eagle Pencil Company. Nos. 106,092-3; Oct. 12; Gaz. vol. 219; p. 581.

- Pens, Fountain-. J. Wallace. No. 103,134; Mar. 16; Gaz. vol. 212; p. 1053.
- Pens, Steel. Hinks, Wells & Co. Nos. 106,098-100; Oct. 12; Gaz. vol. 219; p. 581.
- Pendants, charms, and brooches. Rankin Company. No. 104,155; May 4; Gaz. vol. 214; p. 340.
- Percales and cotton piece goods. J. H. Dunham & Co. No. 101,674; Jan. 5; Gaz. vol. 210; p. 395.
- Percolators, Coffee-. C. A. Allen, Jr. No. 102,728; Feb. 23; Gaz. vol. 211; p. 1257.
- Percolators, Coffee-. J. B. Bleichrode. No. 104,527; June 1; Gaz. vol. 215; p. 319.
- Percolators, Tea and coffee. The Justrite Mfg. Co. No. 105,818; Aug. 17; Gaz. vol. 217; p. 1052.
- Perfume. United Drug Company. No. 107,029; Nov. 9; Gaz. vol. 220; p. 672.
- Perfume, complexion and sachet powders. Solon Palmer. No. 103,116; Mar. 16; Gaz. vol. 212; p. 1052.
- Perfume, toilet water, sachet-powders, and smelling-salts. United Drug Company. No. 102,660; Feb. 16; Gaz. vol. 211; p. 954.
- Perfumes. Agra Company. No. 106,084; Oct. 12; Gaz. vol. 219; p. 581.
- Perfumes and sachet-powder. E. Moulié. No. 104,947; June 29; Gaz. vol. 215; p. 1493.
- Perfumes and talcum powder, Handkerchief extract for. Riker & Hegeman Co. No. 107,284; Nov. 16; Gaz. vol. 220; p. 1039.
- Perfumes and talcum powders. Arly, Inc. No. 107,139; Nov. 16; Gaz. vol. 220; p. 1035.
- Perfumes, incense, hair dye and lotions, &c. Z. Miwa. No. 103,005; Mar. 16; Gaz. vol. 212; p. 1049.
- Perfumes, perfumed powders, and toilet waters. Colgate & Co. No. 105,040; July 6; Gaz. vol. 216; p. 321.
- Perfumes, toilet waters and creams, sachet, talcum, and face powders. C. B. Woodworth Sons Co. No. 107,034; Nov. 9; Gaz. vol. 220; p. 672.
- Perfumes, toilet waters and creams, talcum powder. The C. B. Woodworth Sons Co. No. 103,139; Mar. 16; Gaz. vol. 212; p. 1053.
- Perfumes, toilet waters, and sachet-powders. Goodrich Drug Company. No. 105,265; July 13; Gaz. vol. 216; p. 659.
- Perfumes, toilet waters, creams, rouges, and powders. The C. B. Woodworth Sons Co. No. 106,129; Oct. 12; Gaz. vol. 219; p. 582.
- Perfumes, toilet waters, sachet and talcum powders. C. B. Woodworth Sons Co. No. 104,758; June 15; Gaz. vol. 215; p. 973.
- Perfumes, toilet water, talcum and face powders, &c. Richard Hudnut. No. 101,945; Jan. 19; Gaz. vol. 210; p. 1060.
- Perfumery. Tokalon. No. 103,866; Apr. 20; Gaz. vol. 213; p. 1111.
- Perfumery, face and talcum powders. The Andrew Jergens Co. No. 105,852; Aug. 24; Gaz. vol. 217; p. 1335.
- Perfumery, toilet waters, powders, &c. Hygienic products of. Sargent & Compagnie. No. 107,389; Nov. 23; Gaz. vol. 220; p. 1369.
- Periodical. The Curtis Publishing Company. No. 105,110; July 6; Gaz. vol. 216; p. 323.
- Periodical, Monthly. The Forecast Publishing Co. No. 101,935; Jan. 19; Gaz. vol. 210; p. 1060.
- Periodical, Monthly. National Alfalfa Journal Company. No. 105,220; July 13; Gaz. vol. 216; p. 658.
- Periodical, Monthly. H. W. Phillips. No. 104,819; June 15; Gaz. vol. 215; p. 974.
- Periodical, Weekly. American Buyer. No. 106,194; Oct. 19; Gaz. vol. 219; p. 917.
- Periodical, Weekly. Cahill-Igoe Company. No. 107,312; Nov. 23; Gaz. vol. 220; p. 1367.
- Periodical, Weekly. P. F. Collier & Son. No. 101,918; Jan. 19; Gaz. vol. 210; p. 1059.
- Periodical, Weekly. The Safe-Cabinet Company. No. 103,879; Apr. 20; Gaz. vol. 213; p. 1112.
- Periodicals, Monthly and weekly. Cultivator Publishing Company. No. 101,624; Jan. 5; Gaz. vol. 210; p. 393.
- Periodicals, Weekly. Cultivator Publishing Company. No. 101,623; Jan. 5; Gaz. vol. 210; p. 393.
- Periodicals, Weekly. Federal Legislative Bulletin Service. No. 105,260; July 13; Gaz. vol. 216; p. 659.
- Periodicals, Weekly. Puck Publishing Corporation. No. 104,337; May 18; Gaz. vol. 214; p. 1022.
- Petroleum, gasoline, lubricating-oil, and grease. Phinny Bros. Company. No. 106,015; Sept. 14; Gaz. vol. 218; p. 599.
- Petroleum products. Tide Water Oil Co. No. 107,397; Nov. 23; Gaz. vol. 220; p. 1369.
- Petroleum, Refined. Dilsizian Bros. Nos. 104,604-5; June 8; Gaz. vol. 215; p. 661.
- Petroleum, oils, naphthas, &c. Crude. Cardalitos Oil Company. No. 104,248; May 11; Gaz. vol. 214; p. 678.
- Petticoats. Greenwald Petticoat Co. No. 105,460; July 27; Gaz. vol. 216; p. 1814.
- Petticoats and underskirts. Davis Manufacturing Co. No. 107,317; Nov. 23; Gaz. vol. 220; p. 1367.
- Petticoats and women's and misses' coats and suits. Bloomingdale Bros. No. 103,149; Mar. 16; Gaz. vol. 212; p. 1053.
- Petticoats, princess-slips, and ladies' muslin and silk underwear. Harris Bros. & Barnett. No. 103,658; Apr. 13; Gaz. vol. 213; p. 739.
- Pharmaceutical and chemical preparations, &c. Parke, Davis & Company. Nos. 103,702-3; Apr. 13; Gaz. vol. 213; p. 741.
- Pharmaceutical and chemical preparations, Containers for. The Eli Lilly and Company. No. 107,268; Nov. 16; Gaz. vol. 220; p. 1039.
- Pharmaceutical preparation. Theloh Co. No. 105,451; July 27; Gaz. vol. 216; p. 1313.
- Pharmaceutical preparation for destroying vermin, &c. W. H. Metzger Manufacturing Company. No. 104,772; June 15; Gaz. vol. 215; p. 973.
- Pharmaceutical preparation for toilet and medicinal purposes. W. M. O'Brien. No. 106,890; Nov. 2; Gaz. vol. 220; p. 345.
- Pharmaceutical preparations. Richard Hudnut. No. 105,535; Aug. 3; Gaz. vol. 217; p. 336.
- Pharmaceutical preparations. Win-ner Stock Remedies Co. No. 103,579; Apr. 6; Gaz. vol. 213; p. 356.
- Pharmaceutical preparations and a medicinal preparation for treating certain diseases. Barclay & Barclay. No. 103,640; Apr. 13; Gaz. vol. 213; p. 739.
- Pharmaceutical preparations and remedies for certain diseases. Certain. S. M. Heldfond. No. 103,837; Apr. 13; Gaz. vol. 213; p. 745.
- Pharmaceutical preparations and remedies for certain named diseases. Certain. Co-operative Drug Manufacturing Company, now by change of name American Drug Mfg. Co. No. 104,596; June 8; Gaz. vol. 215; p. 661.
- Pharmaceutical preparations and remedy for certain diseases. Certain. The Antholine Company. No. 106,928; Nov. 9; Gaz. vol. 220; p. 669.
- Pharmaceutical preparations, Certain named. Bullet Brand Laboratories. No. 105,101; July 6; Gaz. vol. 216; p. 323.
- Pharmaceutical preparations, Certain named. The De Free Chemical Company. No. 106,222; Oct. 19; Gaz. vol. 219; p. 918.
- Pharmaceutical preparations, Certain named. Elsner-Mendelson Co. No. 104,713; June 15; Gaz. vol. 215; p. 971.
- Pharmaceutical preparations, Certain named. Elkonin & Nochomowitz. No. 106,850; Nov. 2; Gaz. vol. 220; p. 344.
- Pharmaceutical preparations, Certain named. Holman Soap Co. No. 107,684; Dec. 21; Gaz. vol. 221; p. 1035.
- Pharmaceutical preparations, Certain named. Richard Hudnut. No. 106,863; Nov. 2; Gaz. vol. 220; p. 344.
- Pharmaceutical preparations, Certain named. Kirk Geary & Co. No. 104,945; June 29; Gaz. vol. 215; p. 1493.
- Pharmaceutical preparations, Certain named. Langley & Michaels Co. No. 104,424; May 25; Gaz. vol. 214; p. 1317.
- Pharmaceutical preparations, Certain named. C. B. Spies. No. 104,488; June 1; Gaz. vol. 215; p. 318.
- Pharmaceutical preparations for the treatment of certain named ailments. J. A. Kelly. No. 105,020; June 29; Gaz. vol. 215; p. 1496.
- Pharmaceutical preparations for toilet purposes. R. Hudnut. No. 105,418; July 20; Gaz. vol. 216; p. 1010.
- Pharmaceutical preparations for toilet purposes. Certain named. Brunswick Drug Company. No. 107,463; Nov. 30; Gaz. vol. 220; p. 1716.
- Pharmaceutical preparations for toilet purposes, Certain named. M. Earle. No. 105,157; July 6; Gaz. vol. 216; p. 324.
- Pharmaceutical preparations for toilet purposes, Certain named. J. L. Grossmith. No. 102,094; Jan. 26; Gaz. vol. 210; p. 1389.
- Pharmaceutical preparations for toilet purposes, Certain named. Richard Hudnut, Inc. No. 104,728; June 15; Gaz. vol. 215; p. 972.
- Pharmaceutical preparations for toilet use. N. Warren. No. 102,474; Feb. 9; Gaz. vol. 211; p. 631.
- Pharmaceutical preparations for toilet use, Certain. C. W. Dore. No. 102,072; Jan. 26; Gaz. vol. 210; p. 1389.
- Pharmaceutical preparations for toilet use, Certain. M. Earle. No. 103,780; Apr. 13; Gaz. vol. 213; p. 743.
- Pharmaceutical preparations for toilet use, Certain. Heywood Specialties Co. No. 104,388; May 25; Gaz. vol. 214; p. 1316.
- Pharmaceutical preparations for toilet use, Certain. United Laboratories Company. No. 101,889; Jan. 12; Gaz. vol. 210; p. 714.
- Pharmaceutical preparations for toilet use, Certain. E. L. K. Willison. No. 104,164; May 4; Gaz. vol. 214; p. 340.
- Pharmaceutical preparations for toilet use, Certain named. E. M. Attridge. No. 104,435; June 1; Gaz. vol. 215; p. 317.
- Pharmaceutical preparations for toilet use, Certain named. E. R. Downer. No. 105,256; July 13; Gaz. vol. 216; p. 639.
- Pharmaceutical preparations for toilet use, Certain named. E. I. Simons. No. 104,076; Apr. 27; Gaz. vol. 213; p. 1443.
- Pharmaceutical product. Society of Chemical Industry in Basle. Nos. 107,642-4; Dec. 14; Gaz. vol. 221; p. 733.

Alphabetical list of trade-marks—Continued.

- Phenol and formaldehyde condensation products. Dr. Fritz Pollak G. m. b. H. No. 103,072; Mar. 16; Gaz. vol. 212; p. 1051.
- Phonographs. Talking Doll & Novelty Co. No. 106,187, Oct. 12; Gaz. vol. 219; p. 584.
- Phonographs and phonographic supplies. The Aeolian Company. No. 106,723; Oct. 26; Gaz. vol. 219; p. 1232.
- Phonographs and talking-machines and parts thereof except records. S. A. Ribbolla. No. 107,201; Nov. 16; Gaz. vol. 220; p. 1037.
- Phonographs, talking-machines, &c. The Buckley-Newhall Company. Nos. 106,209-10; Oct. 19; Gaz. vol. 219; p. 917.
- Photo-engravings in the nature of engraved plates. M. E. Pew. No. 103,595; Apr. 6; Gaz. vol. 213; p. 357.
- Photographic apparatus and supplies. Neue Photographische Gesellschaft Aktiengesellschaft. No. 106,473; Oct. 19; Gaz. vol. 219; p. 925.
- Photographic apparatus and supplies, Certain named. Eastman Kodak Co. No. 102,858; Feb. 23; Gaz. vol. 211; p. 1260.
- Photographic chemicals, preparations, and compounds thereof. Ansco Company. No. 103,215; Mar. 23; Gaz. vol. 212; p. 1353.
- Photographic developers. Eastman Kodak Co. No. 103,342; Mar. 30; Gaz. vol. 212; p. 1685.
- Photographic film, Sensitive. Eastman Kodak Co. No. 105,651; Aug. 10; Gaz. vol. 217; p. 695.
- Photographic paper, Sensitized. Eastman Kodak Co. No. 106,147; Oct. 12; Gaz. vol. 219; p. 582.
- Photographic papers, Non-sensitized. Neue Photographische Gesellschaft, Aktiengesellschaft. No. 101,714; Jan. 5; Gaz. vol. 210; p. 396.
- Photographic portraits. Sprague-Hathaway Co. No. 106,378; Oct. 19; Gaz. vol. 219; p. 922.
- Photographic supplies, Certain named. Neue Photographische Gesellschaft Aktiengesellschaft. No. 105,119; July 6; Gaz. vol. 216; p. 323.
- Photographs. Matzene Co. No. 105,917; Aug. 24; Gaz. vol. 217; p. 1337.
- Photographs. Sterling Photo Company. No. 107,211; Nov. 16; Gaz. vol. 220; p. 1037.
- Piano and organ tuning, Tools and supplies for. F. W. Hale. No. 101,848; Jan. 12; Gaz. vol. 210; p. 712.
- Piano-players, player-pianos, and note-sheets for same. American Piano Co. No. 103,335; Mar. 30; Gaz. vol. 212; p. 1685.
- Piano-players, player-pianos, &c., Note-sheets for. American Piano Co. No. 104,346; May 25; Gaz. vol. 214; p. 1315.
- Piano-players, self-playing pianos, orchestrions, &c. The Operators Piano Co. No. 104,473; June 1; Gaz. vol. 215; p. 318.
- Piano-polish. Lyric Publishing Co. No. 101,644; Jan. 5; Gaz. vol. 210; p. 394.
- Pianos. S. W. Clark. No. 102,706; Feb. 23; Gaz. vol. 211; p. 1256.
- Pianos. Jesse French & Sons Piano Co. No. 101,936; Jan. 19; Gaz. vol. 210; p. 1060.
- Pianos. Paul G. Mehlin & Sons. No. 102,899; Mar. 2; Gaz. vol. 212; p. 320.
- Pianos. Miller Organ & Piano Co. No. 104,773; June 15; Gaz. vol. 215; p. 973.
- Pianos. Wagner Piano Company. No. 106,191; Oct. 12; Gaz. vol. 219; p. 584.
- Pianos and orchestrions, Pneumatically-operated. American Photo Player Company. Nos. 102,828-9; Feb. 23; Gaz. vol. 211; pp. 1259-60.
- Pianos and piano-players and piano-player actions. The Schubert Piano Co. No. 103,717; Apr. 13; Gaz. vol. 213; p. 741.
- Pianos and player-pianos. C. E. Byrne Piano Co. No. 102,039; Jan. 26; Gaz. vol. 210; p. 1388.
- Pianos and player-pianos. Drachmann Piano Co. No. 106,031; Sept. 14; Gaz. vol. 218; p. 600.
- Pianos and player-pianos. F. H. Lewis. No. 103,431; Apr. 6; Gaz. vol. 213; p. 351.
- Pianos, Automatic. Lester Piano Company. No. 104,738; June 15; Gaz. vol. 215; p. 972.
- Pianos, organs, player-pianos, horns, &c. The Cussins & Fearn Co. No. 104,934; June 29; Gaz. vol. 215; p. 1493.
- Pianos, piano-players, and piano-player actions. The Schubert Piano Co. No. 104,031; Apr. 27; Gaz. vol. p. 323.
- Pianos, Player-. Koch & Droge Piano Co. No. 106,340; Oct. 19; Gaz. vol. 219; p. 921.
- Pianos, player-pianos, and parts thereof. The Trayser Piano Company. No. 102,912; Mar. 2; Gaz. vol. 212; p. 323.
- Pickles. Pacific Preserve Co. No. 103,327; Mar. 30; Gaz. vol. 212; p. 1684.
- Pickles. E. D. Smith. No. 107,585; Dec. 14; Gaz. vol. 221; p. 731.
- Picture-cards. Campbell Art Company. No. 102,998; Mar. 16; Gaz. vol. 212; p. 1049.
- Picture equipment and screens, Moving-. J. P. Payor & Co. No. 104,105; Apr. 27; Gaz. vol. 213; p. 1444.
- Picture films, Motion-. All Comedy Films. Nos. 105,771-2; Aug. 17; Gaz. vol. 217; p. 1050.
- Picture films, Motion-. The Crystal Film Company. No. 104,817; June 15; Gaz. vol. 215; p. 974.
- Picture films, Motion-. Excelsior Feature Film Co. No. 106,047; Sept. 21; Gaz. vol. 218; p. 873.
- Picture films, Motion-. D. W. Griffith. No. 107,171; Nov. 16; Gaz. vol. 220; p. 1036.
- Picture films, Motion-. Melies Mfg. Co. No. 103,173; Mar. 16; Gaz. vol. 212; p. 1054.
- Picture films, Motion-. A/S Nordisk Films Compagni. No. 103,367; Mar. 30; Gaz. vol. 212; p. 1685.
- Picture films, Motion-. Thanhouser Film Corporation. No. 103,191; Mar. 16; Gaz. vol. 212; p. 1055.
- Picture films, Motion-. Thanhouser Film Corporation. No. 105,766; Aug. 17; Gaz. vol. 217; p. 1050.
- Picture films, Motion-. Thanhouser Film Corporation. No. 107,297; Nov. 16; Gaz. vol. 220; p. 1040.
- Picture films, Motion-. Universal Film Manufacturing Company. No. 103,077; Mar. 16; Gaz. vol. 212; p. 1051.
- Picture films, Motion-. Universal Film Manufacturing Company. No. 105,030; June 29; Gaz. vol. 215; p. 1496.
- Picture films, Motion-. F. Wolff. No. 105,243; July 13; Gaz. vol. 216; p. 659.
- Picture films, Moving-. J. A. Barkey. No. 102,668; Feb. 23; Gaz. vol. 211; p. 1255.
- Picture films, Moving-. California Motion Picture Corporation. No. 106,739; Oct. 26; Gaz. vol. 219; p. 1233.
- Picture films, Moving-. Domino Motion Picture Corporation. No. 107,841; Dec. 28; Gaz. vol. 221; p. 1448.
- Picture films, Moving-. Essanay Film Manufacturing Co. No. 103,055; Mar. 16; Gaz. vol. 212; p. 1051.
- Picture films, Moving-. Ford Motor Company. No. 101,934; Jan. 19; Gaz. vol. 210; p. 1060.
- Picture films, Moving-. The Keystone Film Co. No. 107,849; Dec. 28; Gaz. vol. 221; p. 1448.
- Picture films, Moving-. Melies Mfg. Co. No. 106,115; Oct. 12; Gaz. vol. 219; p. 582.
- Picture films, Moving-. New York Motion Picture Corporation. No. 107,856; Dec. 28; Gaz. vol. 221; p. 1447.
- Picture-films, Moving-. Universal Film Manufacturing Company. No. 104,821; June 15; Gaz. vol. 215; p. 975.
- Picture-frames. The H. Lieber Company. No. 107,182; Nov. 16; Gaz. vol. 220; p. 1036.
- Picture machines, Motion-. The Picture Theatre Equipment Co. No. 107,003; Nov. 9; Gaz. vol. 220; p. 671.
- Picture machines, Moving-. J. I. Hughes. No. 105,063; July 6; Gaz. vol. 216; p. 321.
- Picture or cinematograph films or pictures, Moving-. Prohibition Film Corporation. No. 105,555; Aug. 3; Gaz. vol. 217; p. 336.
- Picture photo-plays and motion-pictures other than photo-plays, Motion-. Vitaphone Company of America. No. 105,623; Aug. 10; Gaz. vol. 217; p. 694.
- Picture-projecting machines and cameras, Motion-. Kinak Motion Picture Company. No. 104,510; June 1; Gaz. vol. 215; p. 319.
- Picture-projection machines and parts thereof, Motion-. Nicholas Power Company. No. 103,823; Apr. 13; Gaz. vol. 213; p. 744.
- Picture theaters, Projection-screens for motion-. L. G. Reynolds. No. 101,751; Jan. 12; Gaz. vol. 210; p. 709.
- Pictures and representations, Lithographed, printed, and mechanically-reproduced. American Lithographic Co. Nos. 107,658-9; Dec. 14; Gaz. vol. 221; p. 733.
- Pictures, Motion-. Jesse L. Lasky Feature Play Co. No. 103,389; Mar. 30; Gaz. vol. 212; p. 1686.
- Pictures, Motion-. Paramount Pictures Corporation. No. 103,248; Mar. 23; Gaz. vol. 212; p. 1354.
- Pictures, Moving. Industrial Moving Picture Company. No. 101,707; Jan. 5; Gaz. vol. 210; p. 396.
- Pie-crust, Prepared. C. A. Nafey. No. 102,145; Jan. 26; Gaz. vol. 210; p. 1391.
- Piece goods. S. W. Long & Co. No. 105,465; July 27; Gaz. vol. 216; p. 1314.
- Piece goods, Certain named. Voss & Stern. No. 106,710; Oct. 26; Gaz. vol. 219; p. 1232.
- Piece goods made from cellulose yarns. Courtaulds, Limited. No. 103,748; Apr. 13; Gaz. vol. 213; p. 742.
- Piece goods of certain named materials. Adair & Bruyere. No. 106,390; Oct. 19; Gaz. vol. 219; p. 923.
- Pile timbers, Ship and dock. Swift & Covington. No. 106,698; Oct. 26; Gaz. vol. 219; p. 1231.
- Pills and tablets for treating certain named diseases. J. Meyer. No. 104,393; May 25; Gaz. vol. 214; p. 1316.
- Pills, candles, suppositories, and salves. L. Trujillo-Marin. No. 103,355; Mar. 30; Gaz. vol. 212; p. 1685.
- Pills, candles, suppositories, and salves. L. Trujillo-Marin. No. 104,425; May 25; Gaz. vol. 214; p. 1317.
- Pills, croup and pneumonia salve, &c., Liver-. Ford Medicine Company. No. 101,705; Jan. 5; Gaz. vol. 210; p. 395.
- Pills for constipation, tooth-paste, salve, and talcum powder. M. A. Filippi. No. 101,776; Jan. 12; Gaz. vol. 210; p. 710.
- Pills, Kidney-. A. E. Besosa. No. 105,524; Aug. 3; Gaz. vol. 217; p. 335.
- Pills, Laxative. Home-Tone Mfg. Co. No. 105,267; July 13; Gaz. vol. 216; p. 659.
- Pills, Laxative. F. C. Morgan. No. 104,741; June 15; Gaz. vol. 215; p. 972.
- Pills, Laxative. E. M. Pond. No. 102,638; Feb. 16; Gaz. vol. 211; p. 953.

- Pills, Liver-. L. S. Barron. No. 104,700; June 15; Gaz. vol. 215; p. 971.
- Pills, Purgative. The W. H. Comstock Company. No. 106,220; Oct. 19; Gaz. vol. 219; p. 918.
- Pills, Tonic. E. M. Pond. No. 102,440; Feb. 9; Gaz. vol. 211; p. 636.
- Pineapple-juice. Hawaiian Pineapple Products Co. No. 102,407; Feb. 9; Gaz. vol. 211; p. 635.
- Pineapple mixture, Non-alcoholic. California Fruit Beverage Company. No. 105,807; Aug. 17; Gaz. vol. 217; p. 1052.
- Pineapples. Griffith-Durney Co. No. 103,656; Apr. 13; Gaz. vol. 213; p. 739.
- Pineapples. Kopf Nursery & Realty Co. No. 102,567; Feb. 16; Gaz. vol. 211; p. 951.
- Pins and hooks and eyes, Toilet-. The American Pin Company. No. 102,013; Jan. 26; Gaz. vol. 210; p. 1387.
- Pins, Headed wire. The National Pin Company. No. 104,226; May 11; Gaz. vol. 214; p. 678.
- Pins, Safety-. Consolidated Safety Pin Co. No. 104,088; Apr. 27; Gaz. vol. 213; p. 1444.
- Pins, Safety-. Oakville Company. No. 106,989; Nov. 9; Gaz. vol. 220; p. 671.
- Pins, Safety-. The Seymour Metal Goods Company. No. 102,456; Feb. 9; Gaz. vol. 211; p. 637.
- Pipe and drain-traps, Lead. United Lead Company. No. 106,524; Oct. 19; Gaz. vol. 219; p. 927.
- Pipe and elbows. Lamb & Ritchie Co. No. 106,783; Oct. 26; Gaz. vol. 219; p. 1234.
- Pipes, cigarette and cigar holders, Tobacco-. William Demuth & Company. No. 102,828; Feb. 9; Gaz. vol. 211; p. 633.
- Pipe-couplings. H. W. Clark Co. No. 104,827; June 22; Gaz. vol. 215; p. 1257.
- Pipe-joint-making-up compound. C. F. Ellis. No. 105,958; Aug. 31; Gaz. vol. 217; p. 1658.
- Pipe mouthpieces or tips and cigar and cigarette holders, Tobacco-. Redmanol Chemical Products Co. No. 101,976; Jan. 19; Gaz. vol. 210; p. 1061.
- Pipe, tubing, wire fencing, &c. The Youngstown Sheet & Tube Company. No. 107,461; Nov. 30; Gaz. vol. 220; p. 1715.
- Pipe, well-casing, and pipe-fittings, Riveted water-. Western Pipe & Steel Company of California. No. 102,666; Feb. 16; Gaz. vol. 211; p. 954.
- Pipes and cigar and cigarette holders, Tobacco. Delacour Brothers. No. 105,343; July 20; Gaz. vol. 216; p. 1008.
- Pipes and fittings, Cast-iron. Essex Foundry. No. 107,779; Dec. 28; Gaz. vol. 221; p. 1446.
- Pipes and tubes. National Tube Company. No. 106,618; Oct. 12; Gaz. vol. 219; p. 582.
- Pipes, Preparation for opening stopped drain-. I. H. Clucas. No. 106,943; Nov. 9; Gaz. vol. 220; p. 669.
- Pipes, tubes, and casings, Metal. National Tube Company. No. 102,635; Feb. 16; Gaz. vol. 211; p. 953.
- Pipes, tubes, and casings, Metal. National Tube Company. Nos. 104,881-2; June 22; Gaz. vol. 215; p. 1258.
- Pipes, tubes, and fittings, Gas, water, and steam. Aktien-gesellschaft der Eisen- & Stahlwerke vorm. Georg Fischer. No. 102,007; Jan. 26; Gaz. vol. 210; p. 1387.
- Piston-rings. The V. A. Longaker Company. No. 106,640; Oct. 26; Gaz. vol. 219; p. 1230.
- Piston-rings. Micro Piston Ring Co. No. 105,440; July 27; Gaz. vol. 216; p. 1313.
- Piston-rings for packing, Metal. Eco Manufacturing Company. No. 105,257; July 13; Gaz. vol. 216; p. 659.
- Piston-rings, Gas, &c, engine. C. White. No. 107,767; Dec. 28; Gaz. vol. 221; p. 1446.
- Pitch substitute for internally coating beer kegs, barrels, &c. Chas. L. Kiewert Co. No. 103,064; Mar. 16; Gaz. vol. 212; p. 1051.
- Planes, screw-drivers, awls and tools, saw-sets, &c. Sargent & Company. No. 104,650; June 8; Gaz. vol. 215; p. 663.
- Plant and vegetable food. C. F. Quincy. No. 106,037; Sept. 14; Gaz. vol. 218; p. 600.
- Plants and flowers and cut flowers, Growing. A. L. Mock. No. 104,805; June 15; Gaz. vol. 215; p. 974.
- Plants, cut flowers, seeds, roots, &c, Growing. National Floral Corporation. No. 105,863; Aug. 24; Gaz. vol. 217; p. 1336.
- Planters, fertilizer and insecticide distributors, and lime-spreaders. Parrish Machine Co. No. 105,366; July 20; Gaz. vol. 216; p. 1008.
- Plastic composition for flooring material, &c. Fibre Company. No. 103,344; Mar. 30; Gaz. vol. 212; p. 1685.
- Plastic compounds for repairing and laying up brickwork. Chicago Fire Brick Co. No. 102,936; Mar. 2; Gaz. vol. 212; p. 324.
- Plastic material, Certain named articles composed of. J. E. Legavre. No. 104,514; June 1; Gaz. vol. 215; p. 319.
- Plastic, Medicated. D. Mybakker. No. 106,171; Oct. 12; Gaz. vol. 219; p. 583.
- Plasters, Hop. King Medicine Co. No. 106,868; Nov. 2; Gaz. vol. 220; p. 344.
- Plaster made of gypsum, Wall-. Southern Gypsum Company. No. 103,299; Mar. 30; Gaz. vol. 212; p. 1683.
- Plaster, Prepared wall-. Wheeling Wall Plaster Co. No. 105,704; Aug. 10; Gaz. vol. 217; p. 697.
- Plasters, Porous. C. C. Truax & Company. No. 101,760; Jan. 12; Gaz. vol. 210; p. 710.
- Plasters, Surgical and medical. P. Beiersdorf & Co. No. 103,776; Apr. 13; Gaz. vol. 213; p. 740.
- Plows. Parlin & Orendorff Company. No. 106,490; Oct. 19; Gaz. vol. 219; p. 926.
- Plows and plow-drawing tractors, Motor-. M. Rumely Company. No. 101,794; Jan. 12; Gaz. vol. 210; p. 711.
- Plows, cultivators, planters, &c., and parts thereof. J. I. Case Plow Works. Nos. 104,189-90; May 4; Gaz. vol. 214; p. 341.
- Plows, harrows, seed-sowing machines, cultivators, &c. O. Baeckman. No. 106,284; Oct. 19; Gaz. vol. 219; p. 920.
- Plows, moldboards, landsides, &c. C. Billups. Nos. 103,805-6; Apr. 13; Gaz. vol. 213; p. 744.
- Plows, moldboards, landsides, &c. C. Billups. No. 105,525; Aug. 3; Gaz. vol. 217; p. 335.
- Plows, moldboards, landsides, plow-points, &c. C. Billups. No. 105,970; Sept. 7; Gaz. vol. 218; p. 317.
- Plows, moldboards, landsides, points, and plow-beams. C. Billups. No. 103,840; Apr. 13; Gaz. vol. 213; p. 745.
- Plowshares. M. Mares. No. 106,076; Oct. 5; Gaz. vol. 219; p. 267.
- Plowshares. M. Mares. No. 106,113; Oct. 12; Gaz. vol. 219; p. 581.
- Plumbers' supplies, shower-baths, &c. Certain named. Jiffy Fire Hose Rack Co. No. 101,709; Jan. 5; Gaz. vol. 210; p. 396.
- Plumbing-paste. C. Rodenhausen. No. 103,793; Apr. 13; Gaz. vol. 213; p. 743.
- Plumbing, Specific for removal of organic matter in. West Disinfecting Company. No. 102,477; Feb. 9; Gaz. vol. 211; p. 637.
- Plushes and velvets in the piece. Sidney Blumenthal & Company. No. 105,248; July 13; Gaz. vol. 216; p. 659.
- Plushes and velvets in the piece. Sidney Blumenthal & Company. No. 105,430; July 27; Gaz. vol. 216; p. 1313.
- Plushes in the piece. The Hind & Harrison Plush Co. Nos. 104,908-9; June 22; Gaz. vol. 215; p. 1259.
- Plushes in the piece. The Hind & Harrison Plush Co. No. 104,939; June 29; Gaz. vol. 215; p. 1493.
- Plushes in the piece. The Hind & Harrison Plush Co. Nos. 105,054-61; July 6; Gaz. vol. 216; p. 321.
- Plushes in the piece. The Hind & Harrison Plush Co. No. 105,208; July 13; Gaz. vol. 216; p. 658.
- Plushes in the piece. Hind & Harrison Plush Co. No. 105,463; July 27; Gaz. vol. 216; p. 1314.
- Pneumatic tubes, Liquid for the sealing of punctures in. Protectair Manufacturing Company. No. 104,005; Apr. 27; Gaz. vol. 213; p. 1441.
- Pocket, Safety-. L. H. Boch. No. 103,310; Mar. 30; Gaz. vol. 212; p. 1684.
- Polish and oil coloring for leather, Liquid and paste. Boyer & Co. No. 102,889; Mar. 2; Gaz. vol. 212; p. 323.
- Polish and soap. Keep-Nu Co. No. 103,817; Apr. 13; Gaz. vol. 213; p. 744.
- Polish, Automobile and furniture. O. J. Allen. No. 103,368; Mar. 30; Gaz. vol. 212; p. 1686.
- Polish, dressings and cleaners, Certain named. The R. M. Hollingshead Co. No. 102,409; Feb. 9; Gaz. vol. 211; p. 635.
- Polish for leather, Liquid and paste. Boyer & Co. No. 102,888; Mar. 2; Gaz. vol. 212; p. 323.
- Polish for wood, leather, and other non-metallic surfaces. Oil-. W. F. Oakley. No. 104,353; May 25; Gaz. vol. 214; p. 1315.
- Polish for wood requiring a glossy finish. E. I. Meadowcroft. No. 106,242; Oct. 19; Gaz. vol. 219; p. 918.
- Polish, Wood-. Armiger Chemical Co. No. 101,729; Jan. 12; Gaz. vol. 210; p. 709.
- Polishes for furniture, automobiles, office-furniture, &c. W. P. Kern. No. 107,347; Nov. 23; Gaz. vol. 220; p. 1368.
- Polishes for restoring finish on varnished-surface work. Berry Brothers. No. 106,141; Oct. 12; Gaz. vol. 219; p. 582.
- Polishes for woodwork, pianos, automobiles, &c. Instant Products Co. No. 104,538; June 1; Gaz. vol. 215; p. 320.
- Polishes, Metal-. Reckitts (U. S. A.) Ltd. No. 107,420; Nov. 23; Gaz. vol. 220; p. 1370.
- Polishing-cloths, Abrasive. M. W. Lindlar. No. 105,983; Sept. 7; Gaz. vol. 218; p. 317.
- Polishing-cloths for glasses. Kleeno-Glass-Kloth Mfg. Co. No. 105,981; Sept. 7; Gaz. vol. 218; p. 317.
- Popcorn. Popcorn Products Co. No. 103,716; Apr. 13; Gaz. vol. 213; p. 741.
- Popcorn. Verder Brothers. No. 104,175; May 4; Gaz. vol. 214; p. 340.
- Popcorn and candy. Lohelde Manufacturing Company. No. 102,841; Feb. 23; Gaz. vol. 211; p. 1260.
- Popcorn and popcorn confections. D. Millar. No. 103,668; Apr. 13; Gaz. vol. 213; p. 740.
- Popcorn and popcorn confections. National Candy Company. No. 106,790; Oct. 26; Gaz. vol. 219; p. 1234.
- Popcorn, Chocolate-flavored. M. J. Laux. No. 106,050; Sept. 21; Gaz. vol. 218; p. 873.
- Popcorn-machines. Holcomb & Hoke Mfg. Co. No. 104,978; June 29; Gaz. vol. 215; p. 1494.
- Poplin, Cotton. Halpren & Mittelman. No. 105,417; July 20; Gaz. vol. 216; p. 1010.

Alphabetical list of trade-marks—Continued.

- Portfolios, pocket-books, hand-bags, &c. Geo. Borgfeldt & Co. No. 104,927; June 29; Gaz. vol. 215; p. 1493.
- Portraits, Photographic. Harris & Ewing. No. 103,385; Mar. 30; Gaz. vol. 212; p. 1686.
- Post-hole diggers and repair parts therefor. L. A. Vinton & Son. No. 104,922; June 22; Gaz. vol. 215; p. 1260.
- Potassium-iodid and iodine-resublimed substitute. National Steel & Copper Plate Company. No. 102,150; Jan. 26; Gaz. vol. 210; p. 1391.
- Potatoes, Fresh sweet or Irish. Morrill & Cohen Co. No. 102,143; Jan. 26; Gaz. vol. 210; p. 1391.
- Poultice. Washington Drug Products Co. No. 104,406; May 25; Gaz. vol. 214; p. 1317.
- Poultry. Moore and Preston. No. 106,883; Nov. 2; Gaz. vol. 220; p. 345.
- Poultry and eggs. W. F. Priebe Co. No. 107,195; Nov. 16; Gaz. vol. 220; p. 1037.
- Poultry and eggs for breeding and hatching. H. V. Tormohlen. No. 104,364; May 25; Gaz. vol. 214; p. 1315.
- Poultry, Dressed. Weinberg Brothers and Company. No. 106,816; Oct. 26; Gaz. vol. 219; p. 1235.
- Poultry, eggs, stock, &c., Dressed and live. Twin Oak Poultry and Egg Company. No. 106,304; Oct. 19; Gaz. vol. 219; p. 923.
- Poultry for food. Crystal Spring Poultry Co. No. 102,707; Feb. 23; Gaz. vol. 211; p. 1256.
- Powder, Absorbent and antiseptic dusting-. Gerhard Mennen Chemical Co. No. 106,464; Oct. 19; Gaz. vol. 219; p. 925.
- Powder, and medicines for treating certain named afflictions, Condition-. The Barker, Moore & Mein Medicine Company. No. 101,615; Jan. 5; Gaz. vol. 210; p. 393.
- Powder and paste and mouth lotion or wash, Tooth. M. A. Evans. No. 102,965; Mar. 9; Gaz. vol. 212; p. 685.
- Powder, Antiseptic. The Limol Chemical Co. No. 105,982; Sept. 7; Gaz. vol. 218; p. 317.
- Powder, Bath-. National Bath Powder Company. No. 104,471; June 1; Gaz. vol. 215; p. 318.
- Powder, Bath-. R. Rapp. No. 104,367; May 25; Gaz. vol. 214; p. 1315.
- Powder, Black sporting-. E. I. du Pont de Nemours Powder Company. No. 106,821; Oct. 26; Gaz. vol. 219; p. 1235.
- Powder, Cleaning, scouring, and polishing. Spar-Light Company. No. 107,456; Nov. 30; Gaz. vol. 220; p. 1715.
- Powder, Face-. Daggett & Ramsdell. No. 102,463; Mar. 9; Gaz. vol. 212; p. 685.
- Powder, Face-. A. Klar. No. 107,228; Nov. 16; Gaz. vol. 220; p. 1038.
- Powder, Face-. M. Kline. No. 107,556; Dec. 7; Gaz. vol. 221; p. 347.
- Powder, Face-. W. L. Schultz. No. 104,752; June 15; Gaz. vol. 215; p. 972.
- Powder, Face-. C. Tetlow. No. 104,489; June 1; Gaz. vol. 215; p. 318.
- Powder, Face-. H. Tetlow Co. No. 103,979; Apr. 20; Gaz. vol. 213; p. 1115.
- Powder, Face-. H. Tetlow Co. No. 105,378; July 20; Gaz. vol. 216; p. 1009.
- Powder, Face-. H. Tetlow Co. No. 105,380; July 20; Gaz. vol. 216; p. 1009.
- Powder, Face-. H. Tetlow Co. No. 105,382; July 20; Gaz. vol. 216; p. 1009.
- Powder, face and cold creams, and rouge, Face-. Minerva Toilet Goods Manufacturing Company, (not incorporated.) No. 105,899; Aug. 24; Gaz. vol. 217; p. 1337.
- Powder, Foot-. Fully & Lewis. No. 104,721; June 15; Gaz. vol. 215; p. 972.
- Powder, Foot-. S. Heindl. No. 105,514; Aug. 3; Gaz. vol. 217; p. 335.
- Powder, Foot-. M. C. Hoard & Co. No. 102,653; Feb. 16; Gaz. vol. 211; p. 954.
- Powder, Foot-. A. J. H. Ries. No. 103,626; Apr. 6; Gaz. vol. 213; p. 358.
- Powder, Liquid complexion-. Perin Inc. No. 106,895; Nov. 2; Gaz. vol. 220; p. 345.
- Powder, massage and cold creams, &c., Face-. E. Mac-Gilvray. No. 103,267; Mar. 23; Gaz. vol. 213; p. 1355.
- Powder, Scouring-. General Specialties Co. No. 107,781; Dec. 28; Gaz. vol. 221; p. 1446.
- Powder, Smokeless rifle-. Hercules Powder Company. No. 106,328; Oct. 19; Gaz. vol. 219; p. 921.
- Powder, Talcum. Cassada Manufacturing Co. No. 103,193; Mar. 16; Gaz. vol. 212; p. 1055.
- Powder, Talcum. Katz & Besthoff. No. 103,001; Mar. 16; Gaz. vol. 212; p. 1049.
- Powder, Talcum. Regal Shoe Company. No. 104,075; Apr. 27; Gaz. vol. 213; p. 1443.
- Powder, Talcum. J. Spooner. No. 103,450; Apr. 6; Gaz. vol. 213; p. 352.
- Powder, Toilet. A. Bourjois & Co. No. 107,776; Dec. 28; Gaz. vol. 221; p. 1446.
- Powder, Toilet. A. Bourjois & Co. Nos. 107,834-6; Dec. 28; Gaz. vol. 221; p. 1448.
- Powder, Toilet. M. L. Vale. No. 107,113; Nov. 9; Gaz. vol. 220; p. 674.
- Powder, Tooth-. The Pyorrhemy Corporation. No. 107,279; Nov. 16; Gaz. vol. 220; p. 1039.
- Powder used in certain construction materials. Light. Harrison Waterproof Materials Co. No. 102,405; Feb. 9; Gaz. vol. 211; p. 635.
- Powder, wash, and paste, Tooth. The C. B. Woodworth Sons Co. No. 103,140; Mar. 16; Gaz. vol. 212; p. 1053.
- Powders and rouge. The J. A. Pozzoni Pharmacal Co. No. 106,865; Oct. 19; Gaz. vol. 219; p. 922.
- Powders, Complexion-. C. Tetlow. No. 104,400; May 25; Gaz. vol. 214; p. 1316.
- Powders, Face-. Parfumerie Marceau Inc. No. 106,894; Nov. 2; Gaz. vol. 220; p. 345.
- Powders, Foot-relief. F. B. Tucker. No. 107,299; Nov. 16; Gaz. vol. 220; p. 1040.
- Powders, toilet water, and dental cream, Talc and face. J. B. Williams Company. No. 105,492; July 27; Gaz. vol. 216; p. 1315.
- Powders, toilet waters, and perfumes, Talcum, &c. A. P. Babcock Co. No. 106,071; Oct. 5; Gaz. vol. 219; p. 267.
- Precious-metal articles, Certain named. Vincent Sorrentino, Inc. No. 104,063; Apr. 27; Gaz. vol. 213; p. 1443.
- Precious metal, Certain named articles made of or plated with. Morris, Mann & Reilly. No. 102,927; Mar. 2; Gaz. vol. 212; p. 324.
- Precious metal, Certain named articles made of or plated with. Paye & Baker Manufacturing Company. No. 105,923; Aug. 24; Gaz. vol. 217; p. 1337.
- Precious-metal goods, Certain named. Wm. Suckling & Sons. No. 102,203; Jan. 26; Gaz. vol. 210; p. 1393.
- Precious-metal tableware, flat-ware, &c. Oneida Community. No. 106,993; Nov. 9; Gaz. vol. 220; p. 671.
- Precious metals, Certain named articles made of or plated with. C. H. Landau-Newman Company. No. 105,666; Aug. 10; Gaz. vol. 217; p. 695.
- Precious metals, Certain named articles made of or plated with. Montgomery Ward & Co. No. 103,246; Mar. 23; Gaz. vol. 212; p. 1354.
- Precious metals, Certain named articles made of or plated with. John M. Roberts & Son Company. No. 101,875; Jan. 12; Gaz. vol. 210; p. 713.
- Preparation for ailments arising from indigestion and constipation. H. Manowitz. No. 105,985; Sept. 7; Gaz. vol. 218; p. 317.
- Preparation for application in the mouth, throat, and nasal passages. W. T. James. No. 103,783; Apr. 13; Gaz. vol. 213; p. 743.
- Preparation for cancers and tumors. G. P. Ramsey. No. 104,749; June 15; Gaz. vol. 215; p. 972.
- Preparation for certain named ailments. E. J. Sormanl. No. 103,330; Mar. 30; Gaz. vol. 212; p. 1684.
- Preparation for chills and fever. W. W. Chill Kill Co. No. 104,904; June 22; Gaz. vol. 215; p. 1259.
- Preparation for dandruff, &c. Nelrow Chemical Company. No. 106,472; Oct. 19; Gaz. vol. 219; p. 925.
- Preparation for diphtheria, sore throat, pneumonia, and la grippe. Border Chemical Company. No. 104,528; June 1; Gaz. vol. 215; p. 319.
- Preparation for external use, Liquid. E. D. Marsh. No. 102,978; Mar. 9; Gaz. vol. 212; p. 685.
- Preparation for invigorating the scalp and developing the growth of the hair. G. S. Noble. No. 103,961; Apr. 20; Gaz. vol. 213; p. 1114.
- Preparation for killing vegetable growths and insects, Chemical. J. F. H. Eason. No. 106,849; Nov. 2; Gaz. vol. 220; p. 343.
- Preparation for lung, throat, and intestinal diseases. The Delson Chemical Company. No. 107,778; Dec. 28; Gaz. vol. 221; p. 1446.
- Preparation for poor circulation of the hands and feet, paralysis, &c. E. Waltner. No. 106,713; Oct. 26; Gaz. vol. 219; p. 1232.
- Preparation for preventing growth of mildew, fungi, or bacilli, Chemical. The Belart Size & Chemical Co. No. 101,763; Jan. 12; Gaz. vol. 210; p. 710.
- Preparation for pyorrhea, Antiseptic. The Meier Dental Manufacturing Co. No. 105,166; July 6; Gaz. vol. 216; p. 324.
- Preparation for removing iron-rust, &c., Chemical gelatinous. J. T. Umpleby. No. 101,806; Jan. 12; Gaz. vol. 210; p. 711.
- Preparation for rheumatism, pains or aches, Chemical. L. Schwartz. No. 105,874; Aug. 24; Gaz. vol. 217; p. 1336.
- Preparation for rheumatism, gout, neuralgia, &c., Liquid. J. B. Carroll. No. 107,240; Nov. 16; Gaz. vol. 220; p. 1038.
- Preparation for scouring and cleaning clothing, &c. Garthwaite Brothers. No. 107,681; Dec. 21; Gaz. vol. 221; p. 1035.
- Preparation for service in the dietetic treatment of wasting diseases. Standard Emulsion Co. No. 107,456; Nov. 30; Gaz. vol. 220; p. 1715.
- Preparation for skin diseases. A. W. Tribbey. No. 102,591; Feb. 16; Gaz. vol. 211; p. 952.
- Preparation for the brain and nerves. St. Ivel Limited. No. 104,809; June 15; Gaz. vol. 215; p. 974.
- Preparation for the destruction of rats and mice. Botanical Manufacturing Company. No. 101,618; Jan. 5; Gaz. vol. 210; p. 393.
- Preparation for the intravenous treatment of syphilis, pellagra, and malaria. The Intravenous Products Company. No. 101,851; Jan. 12; Gaz. vol. 210; p. 712.

- Preparation for the skin. Papier Poudré Limited. No. 103,674; Apr. 13; Gaz. vol. 213; p. 740.
- Preparation for the treatment of certain named ailments. Gilbert & Co. No. 102,683; Feb. 23; Gaz. vol. 211; p. 1255.
- Preparation for the treatment of certain named diseases. G. M. Jackman. No. 104,910; June 22; Gaz. vol. 215; p. 1259.
- Preparation for the treatment of diarrhea and cholera in domestic animals. Compounded. D. F. Waters. No. 104,429; May 25; Gaz. vol. 214; p. 1317.
- Preparation for the treatment of diseases of the stomach. Dry powdered. O. B. Humma. No. 107,261; Nov. 16; Gaz. vol. 220; p. 1039.
- Preparation for the treatment of pyorrhea. W. F. Worthington. No. 107,224; Nov. 16; Gaz. vol. 220; p. 1037.
- Preparation for the treatment of the tobacco habit. The Bako Co. No. 104,246; May 11; Gaz. vol. 214; p. 678.
- Preparation for the treatment of tuberculosis. J. Varga. No. 101,809; Jan. 12; Gaz. vol. 210; p. 711.
- Preparation for the treatment of tuberculosis. Sterilized solution of. Farbwerke vorm. Meister Lucius & Brüning. No. 102,603; Feb. 16; Gaz. vol. 211; p. 952.
- Preparation for treating ailing feet. O. W. Smith. No. 101,722; Jan. 5; Gaz. vol. 210; p. 396.
- Preparation for treatment of affected eyes. J. T. Nulty. No. 106,251; Oct. 19; Gaz. vol. 219; p. 819.
- Preparations for treatment of cancer. Batson & Roberts. No. 102,246; Feb. 2; Gaz. vol. 211; p. 279.
- Preparation for treatment of cancer. C. H. McClanahan. No. 104,880; June 22; Gaz. vol. 215; p. 1258.
- Preparation for treatment of certain named ailments. S. Fargo. No. 102,745; Feb. 23; Gaz. vol. 211; p. 1257.
- Preparation for treatment of certain named ailments. F. Lample. No. 103,352; Mar. 30; Gaz. vol. 212; p. 1685.
- Preparation for treatment of corns, bunions, and warts. S. Schwarz. No. 106,056; Sept. 21; Gaz. vol. 218; p. 873.
- Preparation for treatment of hog-cholera. Eubanks & Mills. No. 102,079; Jan. 26; Gaz. vol. 210; p. 1389.
- Preparation for treatment of hog-cholera. F. W. Smith & Co. No. 103,401; Mar. 30; Gaz. vol. 212; p. 1687.
- Preparation for treatment of kidneys, worms, chicken and hog cholera. G. W. Peeler. No. 106,670; Oct. 26; Gaz. vol. 219; p. 1231.
- Preparation for treatment of lungs, consumption, pneumonia, &c. P. Olivier. No. 103,912; Apr. 20; Gaz. vol. 213; p. 1113.
- Preparation for treatment of old sores, carbuncles, and cancers. Whitaker & Kincaid. No. 106,717; Oct. 26; Gaz. vol. 219; p. 1232.
- Preparation for treatment of scours in live stock and poultry. B. P. Elwood. No. 106,044; Sept. 21; Gaz. vol. 218; p. 873.
- Preparation for treatment of tuberculosis. F. A. Reuther. No. 107,376; Nov. 23; Gaz. vol. 220; p. 1369.
- Preparation for use as a tonic and remedy for stomach and blood trouble. Liquid. F. A. Dillingham. No. 106,224; Oct. 19; Gaz. vol. 219; p. 918.
- Preparation for use as tonic for live stock. Blackman Stock Remedy Co. No. 101,906; Jan. 19; Gaz. vol. 210; p. 1059.
- Preparation for use in internal-combustion engines for augmenting the energy of motor-spirits. Plains Oil Company. No. 106,016; Sept. 14; Gaz. vol. 218; p. 599.
- Preparation for use on glass to prevent accumulation of moisture and dust. Liquid. Mat-Macald Co. No. 103,821; Apr. 13; Gaz. vol. 213; p. 744.
- Preparation for venereal diseases. C. C. Self. No. 103,863; Apr. 20; Gaz. vol. 213; p. 1111.
- Preparation for washing clothes, hand-cleanser, &c., Detergent. Equitable Corporation. No. 107,417; Nov. 23; Gaz. vol. 220; p. 1370.
- Preparation for worn castings or cast-iron to make them look like new. Nu-Iron Mfg. Co. No. 104,230; May 11; Gaz. vol. 214; p. 678.
- Preparation. Liquid iodine. M. E. Robins. No. 105,080; July 6; Gaz. vol. 216; p. 322.
- Preparation noxious to insects and vermin. Chemical. F. J. Nelson. No. 103,111; Mar. 16; Gaz. vol. 212; p. 1052.
- Preparation of iodine for venereal diseases. L. C. Wedge-futh. No. 107,719; Dec. 21; Gaz. vol. 221; p. 1036.
- Preparation or composition of a plastic or liquid consistency. Refractory. A. Dunbar. No. 105,977; Sept. 7; Gaz. vol. 218; p. 317.
- Preparation to assist in the whipping of thin cream. B. D. Smith. No. 107,641; Dec. 14; Gaz. vol. 221; p. 733.
- Preparation to be used for clearing dyes in prints. Kalle Color & Chemical Co. No. 101,641; Jan. 5; Gaz. vol. 210; p. 394.
- Preparation used as a douche. Antiseptic cleansing. Douchinol Company. No. 102,785; Feb. 23; Gaz. vol. 211; p. 1258.
- Preparation used in making and serving certain named foods. White-Stokes Company. No. 103,836; Apr. 13; Gaz. vol. 213; p. 745.
- Preparation. Weed-killer. E. A. Schofield. No. 106,686; Oct. 26; Gaz. vol. 219; p. 1231.
- Preparations for biliousness, constipation, headaches, &c. Riker & Hegeman Co. No. 102,982; Mar. 9; Gaz. vol. 212; p. 685.
- Preparations for certain diseases and certain conditions of the human body. Jaynes Drug Co. No. 101,852; Jan. 12; Gaz. vol. 210; p. 713.
- Preparations for chronic constipation and laxatives. Jaynes Drug Co. No. 107,179; Nov. 16; Gaz. vol. 220; p. 1036.
- Preparations for fertilizing and treating vegetation. Dextrogermoform Propagating Co. No. 106,223; Oct. 19; Gaz. vol. 219; p. 918.
- Preparations for prevention of venereal diseases. S. Meyer. No. 104,740; June 15; Gaz. vol. 215; p. 972.
- Preparations for relieving certain named ailments. Jaynes Drug Co. No. 107,180; Nov. 16; Gaz. vol. 220; p. 1036.
- Preparations for the feet. Riker & Hegeman Co. No. 102,984; Mar. 9; Gaz. vol. 212; p. 686.
- Preparations for the prevention of venereal diseases. S. Meyer. No. 104,985; June 29; Gaz. vol. 215; p. 1495.
- Preparations for treating certain named affections. L. J. Montgomery. No. 103,268; Mar. 23; Gaz. vol. 212; p. 1355.
- Preparations for treatment of dandruff and diseases of the bladder and kidneys. J. M. Alexander. No. 106,025; Sept. 14; Gaz. vol. 218; p. 600.
- Preparations for treatment of headache, constipation, torpid liver, &c. The Strong & Cobb Company. No. 102,202; Jan. 26; Gaz. vol. 210; p. 1393.
- Preparations for undertakers' use. Certain named. The Embalmers' Supply Co. No. 106,303; Oct. 19; Gaz. vol. 219; p. 920.
- Preparations. Hypnotic and sedative. Farbwerke vorm. Meister Lucius & Brüning. No. 107,489; Dec. 7; Gaz. vol. 221; p. 345.
- Preparations to relieve constipation. Botanical Manufacturing Co. No. 103,415; Apr. 6; Gaz. vol. 213; p. 351.
- Preservative coating material. Deutsche Conservierungsgesellschaft mit beschränkter Haftung. No. 103,380; Mar. 30; Gaz. vol. 212; p. 1686.
- Preserves. Wm. Numsen & Sons. No. 107,187; Nov. 16; Gaz. vol. 220; p. 1036.
- Preserves and conserves. Onelda Community. No. 107,367; Nov. 23; Gaz. vol. 220; p. 1369.
- Preserves and jams. F. H. Smith. No. 103,973; Apr. 20; Gaz. vol. 213; p. 1115.
- Preventives of gonorrhea, syphilis, and chancre. L. T. Parker. No. 103,761; Apr. 13; Gaz. vol. 213; p. 743.
- Primers, fillers, surfacers, &c. Valentine & Company. No. 104,812; June 15; Gaz. vol. 215; p. 974.
- Priming or sizing coat for walls and ceilings. Trussed Concrete Steel Company. No. 104,551; June 1; Gaz. vol. 215; p. 320.
- Printed forms. The A. S. Gilman Printing Company. No. 102,940; Mar. 2; Gaz. vol. 212; p. 324.
- Printing-press blankets. New England Fibre Blanket Company. No. 105,120; July 6; Gaz. vol. 216; p. 323.
- Printing-presses. The American Paper Goods Company. No. 104,759; June 15; Gaz. vol. 215; p. 973.
- Prints and publications printed from types, plates, blocks, or stones. Certain. Munder-Thomsen Company. No. 102,717; Feb. 23; Gaz. vol. 211; p. 1256.
- Projection apparatus. Bausch & Lomb Optical Co. No. 102,507; Feb. 9; Gaz. vol. 211; p. 638.
- Projection apparatus. Spencer Lens Company. No. 107,795; Dec. 28; Gaz. vol. 221; p. 1447.
- Publication, Fortnightly financial. The Ticker Publishing Co. No. 105,880; Aug. 24; Gaz. vol. 217; p. 1336.
- Publication, Monthly. D. Barrett. No. 105,776; Aug. 17; Gaz. vol. 217; p. 1051.
- Publication, Monthly. General Electric Company. No. 106,959; Nov. 9; Gaz. vol. 220; p. 670.
- Publication, Monthly. Minnesota Manufacturers Association. No. 105,738; Aug. 17; Gaz. vol. 217; p. 1050.
- Publication, Monthly. The Northwest Farm Press Co. No. 106,357; Oct. 19; Gaz. vol. 219; p. 922.
- Publication, Monthly. William Schotten Coffee Company. No. 101,754; Jan. 12; Gaz. vol. 210; p. 710.
- Publication, Monthly. The Stuyvesant Co. No. 107,505; Dec. 7; Gaz. vol. 221; p. 346.
- Publication, Monthly shoe-trade. Boot and Shoe Recorder Publishing Company. No. 104,315; May 18; Gaz. vol. 214; p. 1022.
- Publication, Monthly trade. The India Rubber Publishing Co. No. 103,166; Mar. 16; Gaz. vol. 212; p. 1054.
- Publication, Periodical. International Association of Rotary Clubs. No. 102,800; Feb. 23; Gaz. vol. 211; p. 1259.
- Publication, Periodical. The Motion Picture Trade Directory Co. No. 105,862; Aug. 24; Gaz. vol. 217; p. 1336.
- Publication, Periodical. The Premier Vacuum Cleaner Company. No. 105,902; Aug. 24; Gaz. vol. 217; p. 1337.
- Publication, Printed annual. R. M. Ford & Co. No. 104,535; June 1; Gaz. vol. 215; p. 320.
- Publication, Semimonthly. The Stenotype Co. No. 102,343; Feb. 9; Gaz. vol. 211; p. 633.
- Publication, Weekly. O. F. Darling. No. 103,583; Apr. 6; Gaz. vol. 213; p. 356.
- Publication, Weekly financial. The Ticker Publishing Co. No. 105,879; Aug. 24; Gaz. vol. 217; p. 1336.
- Publications, Monthly periodical. Western Clock Co. No. 102,319; Feb. 2; Gaz. vol. 211; p. 281.

Alphabetical list of trade-marks—Continued.

- Publications on music, Monthly. E. John. No. 105,853; Aug. 24; Gaz. vol. 217; p. 1335.
- Publications, Periodical. Babson's Statistical Organization. No. 107,234; Nov. 16; Gaz. vol. 220; p. 1038.
- Publications, Printed periodical. T. Leavitt. No. 106,348; Oct. 19; Gaz. vol. 219; p. 921.
- Publications, Serial. The National City Bank of New York. No. 102,882; Feb. 23; Gaz. vol. 211; p. 1261.
- Publications, Title of certain biographical sketches for. J. J. Ryan. No. 103,571; Apr. 6; Gaz. vol. 213; p. 356.
- Pulley-blocks, hoisting-machines, chain hoists, and cranes. Godfrey Mfg. Co. Nos. 101,842-4; Jan. 12; Gaz. vol. 210; p. 712.
- Pulmonary troubles and tuberculosis, Treatment for. N. Cimadomo. No. 106,840; Nov. 2; Gaz. vol. 220; p. 343.
- Pump, Bilge. T. S. Bulmer. No. 104,763; June 15; Gaz. vol. 215; p. 973.
- Pump-rod couplings. E. E. Johnson. No. 103,202; Mar. 23; Gaz. vol. 212; p. 1353.
- Pumps. The Hartford Machine Screw Company. No. 101,735; Jan. 12; Gaz. vol. 210; p. 709.
- Pumps. Stewart-Warner Speedometer Corporation. No. 102,698; Feb. 23; Gaz. vol. 211; p. 1256.
- Pumps, Automobile. Rothweiler & Co. No. 102,931; Mar. 2; Gaz. vol. 212; p. 324.
- Pumps, Automobile, motor-cycle, and bicycle. Apex Electric Manufacturing Company. No. 105,414; July 20; Gaz. vol. 216; p. 1010.
- Pumps, Cistern and well. O. P. Schriver Company. No. 105,448; July 27; Gaz. vol. 216; p. 1313.
- Punch, Fruit. A. G. Spear. No. 105,503; July 27; Gaz. vol. 216; p. 1315.
- Punch in concentrated syrup form. Non-alcoholic fruit. A. M. Luckett. Nos. 106,162-3; Oct. 12; Gaz. vol. 219; p. 583.
- Punches, Conductor and ticket. Bonney-Vehslage Tool Co. No. 101,764; Jan. 12; Gaz. vol. 210; p. 710.
- Purgative. The Bayer Company. No. 106,201; Oct. 19; Gaz. vol. 219; p. 917.
- Purgative and blood-purifier. F. Moczik. No. 106,246; Oct. 19; Gaz. vol. 219; p. 918.
- Purgatives. P. Ferri. No. 102,967; Mar. 9; Gaz. vol. 212; p. 685.
- Purgatives. J. R. Porta. No. 102,299; Feb. 2; Gaz. vol. 211; p. 280.
- Putty-powder. James H. Rhodes & Company. No. 107,282; Nov. 16; Gaz. vol. 220; p. 1039.
- Pyorrhea. C. A. Farlow. No. 103,893; Apr. 20; Gaz. vol. 213; p. 1112.
- Pyorrhea dentitis and alveolaris. The Intravenous Products Company. No. 105,789; Aug. 17; Gaz. vol. 217; p. 1051.
- Quarries, tiles, and bricks, Burned-clay. Mart & Lawton. No. 102,425; Feb. 9; Gaz. vol. 211; p. 636.
- Quercitron for healing sores and bruises on horses. R. R. Weinberg. No. 102,476; Feb. 9; Gaz. vol. 211; p. 637.
- Quilts. T. Kelly & Co. No. 107,848; Dec. 28; Gaz. vol. 221; p. 1448.
- Radiator-valves. Continental Brass and Foundries Co. No. 105,252; July 13; Gaz. vol. 216; p. 659.
- Radiators. James B. Clow & Sons. No. 104,117; May 4; Gaz. vol. 214; p. 339.
- Radiators of internal-combustion engines, Solution for leaks in. Radiator-Fix Company. No. 104,232; May 11; Gaz. vol. 214; p. 678.
- Radio-active emanations. Radium Limited, U. S. A. No. 105,488; July 27; Gaz. vol. 216; p. 1314.
- Radio-active medicinal water, Appliance containing material for the production of. W. J. Schieffelin. No. 101,682; Jan. 5; Gaz. vol. 210; p. 395.
- Radium preparations. E. Schamberg. No. 104,992; June 29; Gaz. vol. 215; p. 1495.
- Railroad spreaders, snow-plows, and flangers. The O. F. Jordan Company. No. 106,158; Oct. 12; Gaz. vol. 219; p. 583.
- Railway-signals, Mechanical. G. Selby. No. 103,298; Mar. 30; Gaz. vol. 212; p. 1683.
- Rain-coats. American Rubber Company of Chicago. No. 105,774; Aug. 17; Gaz. vol. 217; p. 1051.
- Rain-coats. The B. F. Goodrich Company. No. 103,562; Apr. 6; Gaz. vol. 213; p. 356.
- Rain-coats. The B. F. Goodrich Company. No. 104,054; Apr. 27; Gaz. vol. 213; p. 1443.
- Rain-coats. Herman Moritz & Excelsior Shrinking Co. No. 101,645; Jan. 5; Gaz. vol. 210; p. 394.
- Rain-coats. Pioneer Shoe & Rubber Company. No. 105,608; Aug. 10; Gaz. vol. 217; p. 694.
- Rain-coats, cravenetted and rubber coats. D. H. Robinson. No. 103,827; Apr. 13; Gaz. vol. 213; p. 744.
- Raisins and figs. M. A. Roff. No. 102,444; Feb. 9; Gaz. vol. 211; p. 636.
- Raisins, Seeded. Rosenberg Bros. & Co. No. 106,683; Oct. 26; Gaz. vol. 219; p. 1231.
- Ranges. Cabrange Mfg. Co. No. 105,580; Aug. 10; Gaz. vol. 217; p. 693.
- Ranges and stoves and heating-stoves, Cooking. The Stamford Foundry Company. No. 106,186; Oct. 12; Gaz. vol. 219; p. 584.
- Razor-blades, safety-razors and parts thereof, twine-cutters. The Unsinger Razor Blade Company. No. 105,680; Aug. 10; Gaz. vol. 217; p. 696.
- Razor-sharpening machines, Safety-. The Stag Co. No. 105,878; Aug. 24; Gaz. vol. 217; p. 1336.
- Razor-strop abrasive compound. C. B. Periolat. No. 106,035; Sept. 14; Gaz. vol. 218; p. 600.
- Razor-strop dressing. J. S. Simonds. No. 101,801; Jan. 12; Gaz. vol. 210; p. 711.
- Razor-strops. James & Morgan Manufacturing Company. No. 104,731; June 15; Gaz. vol. 215; p. 972.
- Razor-strops and dressings therefor. Dborn Non-honing Pastostrop Co. No. 107,441; Nov. 30; Gaz. vol. 220; p. 1715.
- Razor-strops, Cushion. H. S. Gardner. No. 103,810; Apr. 13; Gaz. vol. 213; p. 744.
- Razors. H. S. Gardner. No. 103,650; Apr. 13; Gaz. vol. 213; p. 739.
- Razors. J. S. Torrence. No. 107,027; Nov. 9; Gaz. vol. 220; p. 672.
- Razors and safety-razors and blades. Yorkshire Steel Co. No. 106,277; Oct. 19; Gaz. vol. 219; p. 919.
- Razors, knives, scissors, &c. Geneva Cutlery Company. No. 106,853; Nov. 2; Gaz. vol. 220; p. 344.
- Razors, knives, scissors, shears. M. Klaas. Nos. 106,625-6; Oct. 26; Gaz. vol. 219; p. 1229.
- Razors, scissors, pocket scissors and knives. Firm of P. L. Schmidt. No. 102,454; Feb. 9; Gaz. vol. 211; p. 637.
- Razors, shears, knives, &c. United Drug Company. No. 102,215; Jan. 26; Gaz. vol. 210; p. 1393.
- Razors, shears, scissors, and files. P. J. Michels. No. 103,109; Mar. 16; Gaz. vol. 212; p. 1052.
- Razors, shears, scissors, and pocket-knives. S. R. Droe-scher. No. 102,073; Jan. 26; Gaz. vol. 210; p. 1389.
- Receptacles and bottles, Glass distributing. E. F. Mallory. No. 105,898; Aug. 24; Gaz. vol. 217; p. 1337.
- Receptacles, Certain named. J. M. Cructet. No. 107,247; Nov. 16; Gaz. vol. 220; p. 1038.
- Refractory mineral capable of resisting high temperatures. Estate of A. E. Foote. Nos. 106,304-6; Oct. 19; Gaz. vol. 219; p. 920.
- Refrigerating apparatus. The Iceless Refrigeration Com-pany. No. 103,239; Mar. 23; Gaz. vol. 212; p. 1354.
- Refrigerators. The Baldwin Refrigerator Co. No. 102,356; Feb. 9; Gaz. vol. 211; p. 634.
- Refrigerators. Borden Stove Company. No. 106,734; Oct. 26; Gaz. vol. 219; p. 1232.
- Refrigerators. The Buckley-Newhall Company. Nos. 106,211-12; Oct. 19; Gaz. vol. 219; p. 917.
- Refrigerators. Loetscher-Ryan Manufacturing Company. No. 105,393; July 20; Gaz. vol. 216; p. 1009.
- Refrigerators. Northern Refrigerator Company. No. 103,910; Apr. 20; Gaz. vol. 213; p. 1113.
- Refrigerators, Heat-insulating material for. Grand Rapids Refrigerator Company. No. 103,695; Apr. 13; Gaz. vol. 213; p. 741.
- Remedies for certain named ailments and diseases. G. F. Johnstone. No. 103,815; Apr. 13; Gaz. vol. 213; p. 744.
- Remedies for certain named ailments and diseases. A. V. White. No. 107,436; Nov. 23; Gaz. vol. 220; p. 1371.
- Remedies for certain named ailments and diseases. C. Widmann. No. 104,111; Apr. 27; Gaz. vol. 213; p. 1444.
- Remedies for certain named ailments, External. M. J. Nunes. No. 104,502; June 1; Gaz. vol. 215; p. 319.
- Remedies for certain named diseases. Chemische Fabrik Reisholz Gesellschaft mit beschränkter Haftung. No. 106,213; Oct. 19; Gaz. vol. 219; p. 917.
- Remedies for colds, headache, and la grippe. A. B. Morse. No. 105,502; July 27; Gaz. vol. 216; p. 1315.
- Remedy for constipation. H. E. Aldrich. No. 107,136; Nov. 16; Gaz. vol. 220; p. 1035.
- Remedies for dental abscesses. E. B. Bliss. No. 102,625; Feb. 16; Gaz. vol. 211; p. 953.
- Remedies for diseases of dogs. Vermilax Company. No. 106,271; Oct. 19; Gaz. vol. 219; p. 919.
- Remedies for diseases of the throat and lungs. S. A. Berry. No. 102,597; Feb. 16; Gaz. vol. 211; p. 952.
- Remedies for stomach and bowel ailments. W. Kalitzky. No. 104,911; June 22; Gaz. vol. 215; p. 1259.
- Remedies for whooping-cough, croup, coughs, and colds. Cactola Remedy Co. No. 102,959; Mar. 9; Gaz. vol. 212; p. 685.
- Remedies, foot-powder, &c., Cough, rheumatic, and fever. The Csilla Pharmaceutical Company. No. 107,248; Nov. 16; Gaz. vol. 220; p. 1038.
- Remedies, Laxative. D. W. Baldwin. No. 101,825; Jan. 12; Gaz. vol. 210; p. 712.
- Remedies, Poultry. The Wright Company. No. 104,898; June 22; Gaz. vol. 215; p. 1259.
- Remedies, Rheumatic. I. M. Dukes. No. 102,964; Mar. 9; Gaz. vol. 212; p. 685.
- Remedy against syphilis, sleeping-sickness, &c. Farb-werke vorm. Meister Lucius & Brüning. No. 106,308; Oct. 19; Gaz. vol. 219; p. 920.
- Remedy and tonic, Restorative liquid-preparation. Or-ganic Products Company. No. 104,104; Apr. 27; Gaz. vol. 213; p. 1444.
- Remedy, Corn. C. F. W. Becker. No. 104,701; June 15; Gaz. vol. 215; p. 971.
- Remedy, Corn. Torpedo Chemical Co. No. 105,927; Aug. 24; Gaz. vol. 217; p. 1337.
- Remedy, Croup. W. W. Lee & Co. No. 101,958; Jan. 19; Gaz. vol. 210; p. 1061.

- Remedy, Dandruff. A. Battaglia. No. 105,505; July 27; Gaz. vol. 216; p. 1315.
- Remedy, Dyspepsia. J. E. Bolvin. No. 102,782; Feb. 23; Gaz. vol. 211; p. 1258.
- Remedy, Eye. J. Ampèy. No. 107,537; Dec. 7; Gaz. vol. 221; p. 347.
- Remedy for affections of the lungs and throat. S. Fargo. No. 102,749; Feb. 23; Gaz. vol. 211; p. 1257.
- Remedy for all throat diseases. W. J. Steele. No. 104,009; Apr. 27; Gaz. vol. 213; p. 1441.
- Remedy for catarrh. R. M. Smith. No. 103,842; Apr. 13; Gaz. vol. 213; p. 745.
- Remedy for catarrh, hay-fever, tonsillitis, &c. The Thymo Company. No. 105,090; July 6; Gaz. vol. 216; p. 322.
- Remedy for certain named ailments. Broma-Mist Co. No. 102,034; Jan. 26; Gaz. vol. 210; p. 1388.
- Remedy for certain named ailments. L. E. Cash. No. 103,375; Mar. 30; Gaz. vol. 212; p. 1686.
- Remedy for certain named ailments. S. Fargo. No. 102,751; Feb. 23; Gaz. vol. 211; p. 1257.
- Remedy for certain named ailments. S. Fargo. No. 103,850; Apr. 20; Gaz. vol. 213; p. 1111.
- Remedy for certain named ailments. H. E. Kendall. No. 103,351; Mar. 30; Gaz. vol. 212; p. 1685.
- Remedy for certain named ailments. Mrs. L. W. James. No. 104,455; June 1; Gaz. vol. 215; p. 317.
- Remedy for certain named ailments and diseases. G. F. Smith. No. 104,753; June 15; Gaz. vol. 215; p. 972.
- Remedy for certain named ailments. Soothing and healing. C. A. J. Murphy. No. 103,393; Mar. 30; Gaz. vol. 212; p. 1686.
- Remedy for certain named diseases. Firm of F. Baldacci. No. 101,899; Jan. 19; Gaz. vol. 210; p. 1059.
- Remedy for certain named diseases. A. Carlson. No. 101,766; Jan. 12; Gaz. vol. 210; p. 710.
- Remedy for certain named diseases. F. A. Hendricks. No. 105,113; July 6; Gaz. vol. 216; p. 323.
- Remedy for certain named diseases. J. N. Murdoch Company. No. 106,173; Oct. 12; Gaz. vol. 219; p. 583.
- Remedy for certain named diseases and ailments. B. L. Mosso. No. 101,864; Jan. 12; Gaz. vol. 210; p. 713.
- Remedy for chills and fever. W. J. Murray. No. 104,742; June 15; Gaz. vol. 215; p. 972.
- Remedy for chronic constipation with associated intestinal atony. W. A. Rullman. No. 102,641; Feb. 16; Gaz. vol. 211; p. 953.
- Remedy for colds and coughs. T. O. Bass. No. 107,539; Dec. 7; Gaz. vol. 221; p. 347.
- Remedy for colds, catarrh, hay-fever, croup, &c. J. R. Mattison. No. 102,427; Feb. 9; Gaz. vol. 211; p. 636.
- Remedy for constipation. S. Fargo. No. 102,746; Feb. 23; Gaz. vol. 211; p. 1257.
- Remedy for constipation, &c. S. Fargo. No. 106,314; Oct. 19; Gaz. vol. 219; p. 921.
- Remedy for constipation, &c. The Arrow Medicine Co. No. 107,675; Dec. 21; Gaz. vol. 221; p. 1035.
- Remedy for constipation, kidney, &c. disorders, and rheumatism. S. Fargo. No. 103,849; Apr. 20; Gaz. vol. 213; p. 1111.
- Remedy for constipation, sour stomach, &c. S. Fargo. No. 106,316; Oct. 19; Gaz. vol. 219; p. 921.
- Remedy for corns. S. Fargo. No. 106,588; Oct. 26; Gaz. vol. 219; p. 1228.
- Remedy for corpulence. A. Horowitz. No. 103,026; Mar. 16; Gaz. vol. 212; p. 1050.
- Remedy for diabetes, mellitus, undernutrition, &c. W. A. Rullman. No. 102,642; Feb. 16; Gaz. vol. 211; p. 953.
- Remedy for diseases of females. S. Chiba. No. 102,055; Jan. 26; Gaz. vol. 210; p. 1388.
- Remedy for diseases of females. F. C. Dilberger. No. 103,558; Apr. 6; Gaz. vol. 213; p. 356.
- Remedy for diseases of the skin and semi-exterior mucous membranes. Geo. H. Lee Company. No. 106,344; Oct. 19; Gaz. vol. 219; p. 921.
- Remedy for diseases of the stomach, liver, and kidneys. Coursey & Munn. No. 101,920; Jan. 19; Gaz. vol. 210; p. 1059.
- Remedy for diseases of the stomach and bowels. Pepsin Syrup Co. No. 107,372; Nov. 23; Gaz. vol. 220; p. 1369.
- Remedy for diseases of women. W. B. Jones. No. 106,447; Oct. 19; Gaz. vol. 219; p. 925.
- Remedy for dyspepsia, biliousness, eczema, &c. S. Fargo. No. 107,471; Dec. 7; Gaz. vol. 221; p. 345.
- Remedy for epilepsy. Faucette Pharmacal Co. No. 103,381; Mar. 30; Gaz. vol. 212; p. 1686.
- Remedy for female ailments. Davis & Lawrence Company. No. 106,221; Oct. 19; Gaz. vol. 219; p. 918.
- Remedy for gouty and rheumatic diseases and neuralgic affections. Farbwerke vorm. Meister Lucius & Brüning. No. 105,811; Aug. 17; Gaz. vol. 217; p. 1052.
- Remedy for hay-fever and catarrh. W. J. Hackett. No. 104,019; Apr. 27; Gaz. vol. 213; p. 1442.
- Remedy for headache and neuralgia. J. L. Pamerleau. No. 106,253; Oct. 19; Gaz. vol. 219; p. 919.
- Remedy for headache, neuralgia, toothache, &c. A. G. Luebert. No. 102,130; Jan. 26; Gaz. vol. 210; p. 1390.
- Remedy for indigestion, biliousness, &c. S. Fargo. No. 106,309; Oct. 19; Gaz. vol. 219; p. 920.
- Remedy for indigestion, liver complaints, and chronic catarrh. M. Franzlich. No. 107,842; Dec. 28; Gaz. vol. 221; p. 1448.
- Remedy for infants' and children's ailments. J. H. Wulf. No. 102,622; Feb. 16; Gaz. vol. 211; p. 953.
- Remedy for intestinal troubles. The Arlington Chemical Co. No. 102,490; Feb. 9; Gaz. vol. 211; p. 638.
- Remedy for la grippe, ague, influenza, and malaria. Thompson Remedy Co. No. 106,814; Oct. 26; Gaz. vol. 219; p. 1235.
- Remedy for laxative purposes and for purifying the blood. S. Fargo. No. 102,747; Feb. 23; Gaz. vol. 211; p. 1257.
- Remedy for laxative purposes and for purifying the blood. S. Fargo. No. 106,312; Oct. 19; Gaz. vol. 219; p. 920.
- Remedy for liver and constipation. H. J. Ruyle. No. 102,694; Feb. 23; Gaz. vol. 211; p. 1256.
- Remedy for liver disorders. C. Rudd. No. 107,384; Nov. 23; Gaz. vol. 220; p. 1369.
- Remedy for liver troubles. H. S. Graves. No. 107,170; Nov. 16; Gaz. vol. 220; p. 1036.
- Remedy for malaria, biliousness, dizziness, &c. C. F. Touchton. No. 102,463; Feb. 9; Gaz. vol. 211; p. 637.
- Remedy for nerves, bladder, and kidneys. Bu Kola Tablet Co. No. 104,707; June 15; Gaz. vol. 215; p. 971.
- Remedy for nervous diseases. Chemische Fabrik Gütstrow, Dr. Hillringhaus & Dr. Heilmann. No. 107,547; Dec. 7; Gaz. vol. 221; p. 347.
- Remedy for nervous disorders. H. A. Brückner. No. 103,688; Apr. 13; Gaz. vol. 213; p. 740.
- Remedy for nervousness, anemia, weakness, &c. S. Fargo. No. 107,472; Dec. 7; Gaz. vol. 221; p. 345.
- Remedy for neuralgia and headache. Albany Chemical Co. No. 101,893; Jan. 19; Gaz. vol. 210; p. 1059.
- Remedy for piles, corns, bunions, &c. J. C. White. No. 103,138; Mar. 16; Gaz. vol. 212; p. 1053.
- Remedy for rheumatic affections and neuralgias. The Bayer Company. No. 105,685; Aug. 10; Gaz. vol. 217; p. 696.
- Remedy for rheumatism. J. Cohen. No. 103,257; Mar. 23; Gaz. vol. 212; p. 1355.
- Remedy for rheumatism. Templeton Rheumatic Capsule Corporation. No. 104,689; June 8; Gaz. vol. 215; p. 664.
- Remedy for rheumatism. S. C. Unruh. No. 104,492; June 1; Gaz. vol. 215; p. 318.
- Remedy for rheumatism, lumbago, and kidney trouble. A. Stewart. No. 104,654; June 8; Gaz. vol. 215; p. 663.
- Remedy for scours. Troy Chemical Co. No. 105,175; July 6; Gaz. vol. 216; p. 325.
- Remedy for seasickness and headaches. G. Shigemura. No. 105,373; July 20; Gaz. vol. 216; p. 1009.
- Remedy for skin and scalp diseases. The Am-o-Lox Company. No. 103,934; Apr. 20; Gaz. vol. 213; p. 1113.
- Remedy for sores, cuts, boils, &c. Salve. N. Morgenstern. No. 107,495; Dec. 7; Gaz. vol. 221; p. 346.
- Remedy for stomach and liver ailments. Jackson Drug Co. No. 107,424; Nov. 23; Gaz. vol. 220; p. 1370.
- Remedy for syphilis, gonorrhea, gleet, &c. H. Winter-smith. No. 103,930; Apr. 20; Gaz. vol. 213; p. 1113.
- Remedy for the eyes. J. Littenberger. No. 106,164; Oct. 12; Gaz. vol. 219; p. 583.
- Remedy for the heart, indigestion, coughs, and rheumatism. Diener and Urban. No. 102,708; Feb. 23; Gaz. vol. 211; p. 1256.
- Remedy for the liquor and tobacco habit. H. W. Elders. No. 103,052; Mar. 16; Gaz. vol. 212; p. 1050.
- Remedy for the liver. B. Brasel. No. 103,020; Mar. 16; Gaz. vol. 212; p. 1049.
- Remedy for the liver and kidneys. Saenger Brothers. No. 101,717; Jan. 5; Gaz. vol. 210; p. 396.
- Remedy for the tobacco habit. J. Stamer. No. 104,236; May 11; Gaz. vol. 214; p. 678.
- Remedy for the treatment of certain named affections. S. Fargo. No. 104,717; June 15; Gaz. vol. 215; p. 971.
- Remedy for the treatment of certain named animal diseases. Spohn Medical Company. No. 106,377; Oct. 19; Gaz. vol. 219; p. 922.
- Remedy for the treatment of certain named diseases. C. Haefner. No. 102,095; Jan. 26; Gaz. vol. 210; p. 1389.
- Remedy for treatment of certain named ailments. Medicinal. A. Rivera. No. 107,764; Dec. 28; Gaz. vol. 221; p. 1446.
- Remedy for treatment of certain named diseases. S. Fargo. No. 106,315; Oct. 19; Gaz. vol. 219; p. 921.
- Remedy, Goitre. G. A. Wester. No. 102,478; Feb. 9; Gaz. vol. 211; p. 637.
- Remedy, Hog-worm. J. J. Culp. No. 106,029; Sept. 14; Gaz. vol. 218; p. 600.
- Remedy, Liquid liver. L. F. Christman. No. 106,564; Oct. 26; Gaz. vol. 219; p. 1227.
- Remedy, Liver. The Marcy Company. No. 104,073; Apr. 27; Gaz. vol. 213; p. 1443.
- Remedy, Nerve. The Nervisana Company. No. 101,866; Jan. 12; Gaz. vol. 210; p. 713.
- Remedy, Pile. A. E. Dessert. No. 102,682; Feb. 23; Gaz. vol. 211; p. 1255.
- Remedy, Pile. Marvel Pile Remedy Co. No. 107,523; Dec. 7; Gaz. vol. 221; p. 346.
- Remedy, Pile. C. H. Warren. No. 106,272; Oct. 19; Gaz. vol. 219; p. 919.
- Remedy, Pile and eczema. J. B. Rice. No. 103,443; Apr. 6; Gaz. vol. 213; p. 352.
- Remedy, Rheumatism. J. J. Bockar. No. 104,557; June 1; Gaz. vol. 215; p. 320.

Alphabetical list of trade-marks—Continued.

- Remedy, Rheumatism. A. Gauthier and D. St. Pierre. No. 105,841; Aug. 24; Gaz. vol. 217; p. 1335.
- Remedy, Rheumatism. E. V. Johnson. No. 104,877; June 22; Gaz. vol. 215; p. 1258.
- Remedy to prevent abortion in cows. The Luxel Company. No. 104,392; May 25; Gaz. vol. 214; p. 1316.
- Remedy, Toothache. V. Genna. No. 103,286; Mar. 30; Gaz. vol. 212; p. 1683.
- Remedy, Toothache. M. Gennarelli. No. 106,152; Oct. 12; Gaz. vol. 219; p. 583.
- Remedy, toothache-drops, cold-tablets, &c., Corn. H. L. Partridge. No. 104,841; June 22; Gaz. vol. 215; p. 1257.
- Remedy used as a laxative and for the treatment of constipation. Knoll & Co. No. 103,900; Apr. 20; Gaz. vol. 213; p. 1112.
- Resin. F. Hides. No. 101,736; Jan. 12; Gaz. vol. 210; p. 709.
- Resuscitating appliances. Life Saving Devices Co. No. 106,639; Oct. 26; Gaz. vol. 219; p. 1230.
- Rheumatism, neuralgia, sprains, &c. J. L. Wooldridge. No. 101,661; Jan. 5; Gaz. vol. 210; p. 394.
- Ribbons. W. E. Dodd. No. 106,581; Oct. 26; Gaz. vol. 219; p. 1228.
- Ribbons. U. R. T. Lund. No. 102,131; Jan. 26; Gaz. vol. 210; p. 1390.
- Ribbons, W. Openhym & Sons. No. 106,485; Oct. 19; Gaz. vol. 219; p. 926.
- Rice. Gannon Grocery Company. No. 104,302; May 18; Gaz. vol. 214; p. 1021.
- Rice. Standard Milling Co. No. 106,694; Oct. 26; Gaz. vol. 219; p. 1231.
- Rice and beans. Staudt & Co. No. 107,395; Nov. 23; Gaz. vol. 220; p. 1369.
- Rice and dried beans. Okada & Ichida Company. No. 105,669; Aug. 10; Gaz. vol. 217; p. 696.
- Rice, Head. C. E. McMahon & Co. No. 101,789; Jan. 12; Gaz. vol. 210; p. 711.
- Rice, Prepared. Mrs. M. R. Kelly. No. 107,346; Nov. 23; Gaz. vol. 220; p. 1368.
- Rice, tapioca, spices, and syrup for foods. The J. K. Armsby Co. No. 102,354; Feb. 9; Gaz. vol. 211; p. 634.
- Rifles and guns. A. H. Fox Gun Company. No. 103,347; Mar. 30; Gaz. vol. 212; p. 1685.
- Rings, Finger. Flint, Blood & Co. No. 107,739; Dec. 28; Gaz. vol. 221; p. 1445.
- Rivets and burs. The American Brass Company. No. 106,136; Oct. 12; Gaz. vol. 219; p. 582.
- Roach, ant, and bedbug exterminator. W. J. Klein. No. 102,863; Feb. 23; Gaz. vol. 211; p. 1261.
- Roads and highways, Composite material for the construction of. A. Reed. Nos. 107,198-9; Nov. 16; Gaz. vol. 220; p. 1037.
- Robes, Sleeping. H. B. Glover Company. No. 103,315; Mar. 30; Gaz. vol. 212; p. 1684.
- Rodent-exterminating preparation. The Botanical Manufacturing Co. No. 103,414; Apr. 6; Gaz. vol. 213; p. 351.
- Roller-coasters. Lockwood Amusement Company. No. 104,983; June 29; Gaz. vol. 215; p. 1494.
- Rompers and outer suits. Children's. Ely & Walker Dry Goods Co. No. 104,145; May 4; Gaz. vol. 214; p. 340.
- Rompers, play-suits, overalls, &c., Woven. Rice-Stix Dry Goods Company. No. 102,691; Feb. 23; Gaz. vol. 211; p. 1255.
- Roof-covering. Warren-Ehret Company. No. 105,452; July 27; Gaz. vol. 216; p. 1313.
- Roofs. Certain compound for covering and repairing. The National Refining Company. No. 103,247; Mar. 23; Gaz. vol. 212; p. 1354.
- Roofing compounds. M. N. Cartier and Sons Company. No. 107,511; Dec. 7; Gaz. vol. 221; p. 346.
- Roofing, Formed steel. The Trumbull Steel Company. No. 103,213; Mar. 23; Gaz. vol. 212; p. 1353.
- Roofing materials. The Philip Carey Manufacturing Company. No. 107,151; Nov. 16; Gaz. vol. 220; p. 1035.
- Roofing materials, Certain named. Peyton Paper Co. No. 104,308; May 18; Gaz. vol. 214; p. 1021.
- Roofing, Prepared. Barrett Manufacturing Company. Nos. 105,334-5; July 20; Gaz. vol. 216; p. 1007.
- Roofing, Prepared. Evansville Paint & Varnish Co. No. 106,046; Sept. 21; Gaz. vol. 218; p. 873.
- Roofing, Prepared. Shaffer Roofing Co. No. 101,800; Jan. 12; Gaz. vol. 210; p. 711.
- Roofing, Ready. Carpenter-Morton Company. No. 101,830; Jan. 12; Gaz. vol. 210; p. 712.
- Roofing, Ready. Warren Chemical & Manufacturing Company. No. 101,813; Jan. 12; Gaz. vol. 210; p. 711.
- Roofing, roofing felt and cement, Ready. Warren Ehret Company. No. 106,273; Oct. 19; Gaz. vol. 219; p. 919.
- Roofings, Prepared. Barrett Manufacturing Company. No. 106,930; Nov. 9; Gaz. vol. 220; p. 669.
- Roofings, tarred felts, and non-metallic sheathings, Prepared. Barrett Manufacturing Company. No. 107,703; Dec. 21; Gaz. vol. 221; p. 1036.
- Rope, binder and other twines. Raffloer, Erbsloh and Company. Nos. 106,500-1; Oct. 19; Gaz. vol. 219; p. 926.
- Rope, cord, lines, and twine. American Manufacturing Co. No. 105,179; July 13; Gaz. vol. 216; p. 657.
- Rope, cord, twine, and binder-twine. International Harvester Company of New Jersey. Nos. 106,972-5; Nov. 9; Gaz. vol. 220; p. 670.
- Rouge. H. Tellow Co. No. 105,379; July 20; Gaz. vol. 216; p. 1009.
- Rouge, liquid face-powder, skin-lotion, &c. Madam Duval Company. No. 106,583; Oct. 26; Gaz. vol. 219; p. 1228.
- Rouges. R. H. Macy & Co. No. 104,462; June 1; Gaz. vol. 215; p. 317.
- Routing-cutters. John Royle & Sons. No. 102,177; Jan. 26; Gaz. vol. 210; p. 1392.
- Rubber and fabric beltings. The National Belting Company. No. 103,395; Mar. 30; Gaz. vol. 212; p. 1686.
- Rubber and leather composition soles. Essex Rubber Company. No. 105,529; Aug. 3; Gaz. vol. 217; p. 335.
- Rubber automobile-casings, inner tubes, &c. Thermoid Rubber Company. No. 103,452; Apr. 6; Gaz. vol. 213; p. 352.
- Rubber balls. Lambertville Rubber Co. No. 105,598; Aug. 10; Gaz. vol. 217; p. 693.
- Rubber belting. The Goodyear Tire and Rubber Company. No. 101,845; Jan. 12; Gaz. vol. 210; p. 712.
- Rubber belting and hose, leather belting, packing. Hudson & Thurber Co. No. 102,107; Jan. 26; Gaz. vol. 210; p. 1390.
- Rubber boots and shoes. American Rubber Company. No. 101,896; Jan. 19; Gaz. vol. 210; p. 1059.
- Rubber boots and shoes. Boston Rubber Shoe Company. No. 106,735; Oct. 26; Gaz. vol. 219; p. 1233.
- Rubber boots and shoes. Colchester Rubber Company. No. 106,567; Oct. 26; Gaz. vol. 219; p. 1228.
- Rubber boots and shoes. G. L. Snow. No. 105,374; July 20; Gaz. vol. 216; p. 1009.
- Rubber boots and shoes. E. G. Stearns. No. 103,871; Apr. 20; Gaz. vol. 213; p. 1111.
- Rubber boots and shoes. E. G. Stearns. No. 107,483; Dec. 7; Gaz. vol. 221; p. 345.
- Rubber boots and shoes. United States Rubber Company. No. 102,472; Feb. 9; Gaz. vol. 211; p. 637.
- Rubber boots and shoes. United States Rubber Company. No. 102,870; Feb. 23; Gaz. vol. 211; p. 1261.
- Rubber boots and shoes and tennis-shoes. Hood Rubber Company. No. 107,337; Nov. 23; Gaz. vol. 220; p. 1368.
- Rubber boots, shoes, and overshoes. Hood Rubber Company. No. 101,637; Jan. 5; Gaz. vol. 210; p. 393.
- Rubber boots, shoes, and overshoes and rubber-soled canvas boots and shoes. Hood Rubber Company. No. 106,331; Oct. 19; Gaz. vol. 219; p. 921.
- Rubber boots, shoes, overshoes, &c. Hood Rubber Company. Nos. 107,756-8; Dec. 28; Gaz. vol. 221; p. 1446.
- Rubber bumpers, antirattlers, hand-grips, &c. Continental Rubber Works. No. 104,207; May 11; Gaz. vol. 214; p. 677.
- Rubber bumpers for automobile-springs. Real. Rutherford Rubber Company. No. 103,967; Apr. 20; Gaz. vol. 213; p. 1114.
- Rubber cement. L. P. Southard. No. 103,129; Mar. 16; Gaz. vol. 212; p. 1053.
- Rubber combs. Geo. Borgfeldt & Co. No. 102,671; Feb. 23; Gaz. vol. 211; p. 1255.
- Rubber during vulcanization process. Chemical substance for use with. Hooley Hill Rubber & Chemical Co. No. 107,175; Nov. 16; Gaz. vol. 220; p. 1036.
- Rubber elastic bands. Arkay Rubber Co. No. 104,697; June 15; Gaz. vol. 215; p. 971.
- Rubber erasers. American Lead Pencil Company. No. 101,614; Jan. 5; Gaz. vol. 210; p. 393.
- Rubber footwear. Mishawaka Woolen Manufacturing Company. No. 105,441; July 27; Gaz. vol. 216; p. 1313.
- Rubber garden-hose. The Fair. No. 102,515; Feb. 9; Gaz. vol. 211; p. 638.
- Rubber garden-hose. Sears, Roebuck and Co. Nos. 105,233-5; July 13; Gaz. vol. 216; p. 658.
- Rubber garden-hose. Sears, Roebuck and Co. No. 105,238; July 13; Gaz. vol. 216; p. 659.
- Rubber garden-hose. Sears, Roebuck and Co. No. 107,387; Nov. 23; Gaz. vol. 220; p. 1369.
- Rubber gloves, diapers, and sanitary aprons. Surgeons'. Miller Rubber Company. No. 102,655; Feb. 16; Gaz. vol. 211; p. 954.
- Rubber gloves, Surgeons'. S. Meyer. No. 107,449; Nov. 30; Gaz. vol. 220; p. 1715.
- Rubber goods and surgical appliances, Certain named. Druggists' Supply Corporation. No. 106,417; Oct. 19; Gaz. vol. 219; p. 924.
- Rubber goods, Cementing and vulcanizing patches for. E. Z. Patch Company. No. 106,418; Oct. 19; Gaz. vol. 219; p. 924.
- Rubber goods, Certain named. United Drug Company. No. 103,603; Apr. 6; Gaz. vol. 213; p. 357.
- Rubber goods, Certain named. United & Globe Rubber Mfg Companies. No. 106,268; Oct. 19; Gaz. vol. 219; p. 919.
- Rubber goods, Certain named manufactured. Continental Rubber Works. No. 104,206; May 11; Gaz. vol. 214; p. 677.
- Rubber heels. McTernan Rubber Manufacturing Co. No. 105,549; Aug. 3; Gaz. vol. 217; p. 336.

- Rubber heels. J. M. van Heusen. No. 105,831; Aug. 17; Gaz. vol. 217; p. 1052.
- Rubber heels and gloves. Continental Rubber Works. No. 105,997; Sept. 14; Gaz. vol. 218; p. 599.
- Rubber heels and soles. Millwall Rubber Company. No. 101,679; Jan. 5; Gaz. vol. 210; p. 395.
- Rubber heels and soles. W. Perkins. No. 104,476; June 1; Gaz. vol. 215; p. 318.
- Rubber heels for boots and shoes. Atlantic Manufacturing Company. No. 104,967; June 29; Gaz. vol. 215; p. 1494.
- Rubber heels for boots and shoes. Plymouth Rubber Company. No. 101,716; Jan. 5; Gaz. vol. 210; p. 396.
- Rubber heels for shoes. Heimbach Rubber Heel Co. No. 107,820; Dec. 28; Gaz. vol. 221; p. 1447.
- Rubber horseshoes. Revere Rubber Company. No. 101,873; Jan. 12; Gaz. vol. 210; p. 713.
- Rubber hose and belting and composite rubber packing for pistons. Bowers Rubber Works. Nos. 105,950-5; Aug. 31; Gaz. vol. 217; p. 1657.
- Rubber-hose connections, rubber-valve bases, &c. Continental Rubber Works. No. 106,841; Nov. 2; Gaz. vol. 220; p. 843.
- Rubber inner tubes. F. T. Murray. No. 105,443; July 27; Gaz. vol. 216; p. 1313.
- Rubber jar-rings and hose. Boston Woven Hose & Rubber Co. No. 104,789; June 15; Gaz. vol. 215; p. 974.
- Rubber machinery-packing. The Goodyear Tire and Rubber Company. No. 102,402; Feb. 9; Gaz. vol. 211; p. 635.
- Rubber machinery packing. Sheet. New York Belting & Packing Company. No. 101,970; Jan. 19; Gaz. vol. 210; p. 1061.
- Rubber mallets, type-writer platens, &c. Continental Rubber Works. No. 104,971; June 29; Gaz. vol. 215; p. 1494.
- Rubber matting, stair-treads, printers' blankets, and hospital-sheeting. Continental Rubber Works. No. 104,210; May 11; Gaz. vol. 214; p. 677.
- Rubber, New. The Henderson Rubber Company. No. 107,473; Dec. 7; Gaz. vol. 221; p. 345.
- Rubber packing. York Manufacturing Company. No. 106,920; Nov. 2; Gaz. vol. 220; p. 346.
- Rubber piston-packing, Composite. Bowers Rubber Works. No. 104,440; June 1; Gaz. vol. 215; p. 317.
- Rubber, Reclaimed. Bloomingdale Rubber Company. No. 106,288; Oct. 19; Gaz. vol. 219; p. 920.
- Rubber, Reclaimed. E. H. Clapp Rubber Company. No. 103,994; Apr. 27; Gaz. vol. 213; p. 1441.
- Rubber repairing compounds and adhesive cements. C. B. Kirkpatrick. No. 101,855; Jan. 12; Gaz. vol. 210; p. 713.
- Rubber roofing. W. S. Nott Company. No. 102,580; Feb. 16; Gaz. vol. 211; p. 951.
- Rubber roofing. Pidgeon-Thomas Iron Company. No. 102,168; Jan. 26; Gaz. vol. 210; p. 1392.
- Rubber-soled boots and shoes with canvas tops. United States Rubber Company. No. 106,708; Oct. 26; Gaz. vol. 219; p. 1232.
- Rubber soles and heels. The B & R Rubber Company. No. 101,824; Jan. 12; Gaz. vol. 210; p. 712.
- Rubber soles and heels. The B & R Rubber Company. No. 102,556; Feb. 16; Gaz. vol. 211; p. 951.
- Rubber solution for the repair of rubber tires, Packages of. The E. F. Goodrich Company. No. 104,383; May 25; Gaz. vol. 214; p. 1316.
- Rubber surgical blankets, hot-water bottles, syringes, &c. New York Mackintosh Clothing Co. No. 105,445; July 27; Gaz. vol. 216; p. 1313.
- Rubber tubing, hose, &c. J. W. Buckley Rubber Co. No. 104,044; Apr. 27; Gaz. vol. 213; p. 1442.
- Ruchings, ruffings, platings, &c. W. S. Finlay. No. 102,081; Jan. 26; Gaz. vol. 210; p. 1389.
- Ruffings. C. Bergenstein & Co. No. 104,582; June 1; Gaz. vol. 215; p. 321.
- Ruge-molds. The Columbus Dental Manufacturing Co. No. 103,417; Apr. 6; Gaz. vol. 213; p. 351.
- Rugs and carpets. Textile. M. J. Whittall. Nos. 103,458-9; Apr. 6; Gaz. vol. 213; p. 352.
- Rugs and carpets, Woven grass. Pacific Coast Rattan Co. No. 104,987; June 29; Gaz. vol. 215; p. 1495.
- Rugs, mats, runners, and cotton bagging. Textile. Palmetto Products Company. No. 104,123; May 4; Gaz. vol. 214; p. 339.
- Rugs, Textile. Dickey & McMaster. No. 104,253; May 11; Gaz. vol. 214; p. 678.
- Rugs, Textile. A. & M. Karagheusian. No. 105,731; Aug. 17; Gaz. vol. 217; p. 1049.
- Rugs, Textile. Persian Rug Manufactory. No. 107,094; Nov. 9; Gaz. vol. 220; p. 674.
- Rules, Circular slide. The Commercial Calculator Co. No. 104,205; May 11; Gaz. vol. 214; p. 677.
- Rules, Circular slide. Keller Mechanical Engraving Co. No. 107,263; Nov. 16; Gaz. vol. 220; p. 1039.
- Rum, Jamaica. A. D. Shaw & Co. No. 103,971; Apr. 20; Gaz. vol. 213; p. 1114.
- Rust or scale preventing materials in water-containing devices. Flint, Eaton & Co. No. 106,423; Oct. 19; Gaz. vol. 219; p. 924.
- Sachet-bags. Regal Sachet Co. No. 107,009; Nov. 9; Gaz. vol. 220; p. 671.
- Safes. Art Metal Construction Co. No. 107,702; Dec. 21; Gaz. vol. 221; p. 1035.
- Salad-dressing. L. Flack. No. 102,273; Feb. 2; Gaz. vol. 211; p. 280.
- Salad-dressing, chilli sauce, mustard, &c. The Horton Cato Mfg. Co. No. 103,696; Apr. 13; Gaz. vol. 213; p. 741.
- Saleratus, bicarbonate of soda, and sal-soda. Church & Dwight Company. Nos. 104,249-50; May 11; Gaz. vol. 214; p. 678.
- Saleratus, bicarbonate of soda, and sal-soda. Church & Dwight Company. No. 104,320; May 18; Gaz. vol. 214; p. 1022.
- Saleratus, bicarbonate of soda, and sal-soda. Church & Dwight Co. Nos. 106,214-16; Oct. 19; Gaz. vol. 219; p. 917.
- Saline laxatives and liver-salts. Wintersmith Chemical Co. No. 107,131; Nov. 9; Gaz. vol. 220; p. 675.
- Salt. Couto & Co. No. 106,145; Oct. 12; Gaz. vol. 219; p. 582.
- Salt. D. G. Cutler Company. Nos. 104,669-71; June 8; Gaz. vol. 215; p. 663.
- Salt. Morton Salt Company. No. 103,357; Mar. 30; Gaz. vol. 212; p. 1685.
- Salt. Morton Salt Company. Nos. 104,913-14; June 22; Gaz. vol. 215; p. 1259.
- Salt. J. L. C. Mulkey. No. 104,986; June 29; Gaz. vol. 215; p. 1495.
- Salt. The Union Salt Company. Nos. 104,160-1; May 4; Gaz. vol. 214; p. 340.
- Salt, Bath-. A. D. Adams. No. 104,193; May 11; Gaz. vol. 214; p. 677.
- Salt, Block. Belmont Stable Supply Co. No. 104,085; Apr. 27; Gaz. vol. 213; p. 1444.
- Salt for a conditioner for stock, Medicated. S. T. King. No. 105,214; July 13; Gaz. vol. 216; p. 658.
- Salt, Medium. D. G. Cutler Company. No. 104,672; June 8; Gaz. vol. 215; p. 663.
- Salt, Table. D. G. Cutler Company. No. 106,747; Oct. 26; Gaz. vol. 219; p. 1233.
- Salts, Effervescent. Imperial Laboratories Co. No. 106,443; Oct. 19; Gaz. vol. 219; p. 924.
- Salve. The Curitite Company. No. 101,772; Jan. 12; Gaz. vol. 210; p. 710.
- Salve. H. W. Howser. No. 106,769; Oct. 26; Gaz. vol. 219; p. 1234.
- Salve. W. J. Lind. No. 106,240; Oct. 19; Gaz. vol. 219; p. 918.
- Salve. M. Moan. No. 104,223; May 11; Gaz. vol. 214; p. 678.
- Salve. J. W. Stolba. No. 103,210; Mar. 23; Gaz. vol. 212; p. 1353.
- Salve. Tomahawk Medicine Co. No. 106,267; Oct. 19; Gaz. vol. 219; p. 919.
- Salve. The Vick Chemical Co. No. 103,601; Apr. 6; Gaz. vol. 213; p. 351.
- Salve and ointment for catarrh, neuralgia, quinsy, &c. Healine Manufacturing Co. No. 104,907; June 22; Gaz. vol. 215; p. 1259.
- Salve and remedy for burns, injuries, and bruises. M. L. Forgette. No. 102,084; Jan. 26; Gaz. vol. 210; p. 1389.
- Salve compound for cuts, sores, and bruises. A. Pavell. No. 106,120; Oct. 12; Gaz. vol. 219; p. 582.
- Salve for cuts, bruises, &c. M. Rabith. No. 104,395; May 25; Gaz. vol. 214; p. 1316.
- Salve for external sores and burns. C. Fink. No. 103,725; Apr. 13; Gaz. vol. 213; p. 741.
- Salve for nasal affections, Medicated. R. Law. No. 103,820; Apr. 13; Gaz. vol. 213; p. 744.
- Salve for preventing skin irritation of infants. M. P. Hynson. No. 101,638; Jan. 5; Gaz. vol. 210; p. 393.
- Salve for sunburn and skin affections. H. Kronengold. No. 104,057; Apr. 27; Gaz. vol. 213; p. 1443.
- Salve for the destruction of lice and mites on poultry, &c. O. B. Andrews. No. 102,253; Feb. 9; Gaz. vol. 211; p. 634.
- Salve, Medicated. J. E. Mahoney. No. 105,216; July 13; Gaz. vol. 216; p. 658.
- Salve or ointment. H. G. Frobase. No. 106,322; Oct. 19; Gaz. vol. 219; p. 921.
- Salve or ointment, Medicinal. T. N. Kenyon. No. 101,782; Jan. 12; Gaz. vol. 210; p. 710.
- Salve, remedy for piles, and liniment, Chilblain-. T. J. Houghtaling. No. 107,176; Nov. 16; Gaz. vol. 220; p. 1036.
- Salves. Bner Chem. Co. No. 105,098; July 6; Gaz. vol. 216; p. 322.
- Salves. L. Oppen. No. 405,121; July 6; Gaz. vol. 216; p. 323.
- Salves. H. E. Plunkett & Co. No. 107,374; Nov. 23; Gaz. vol. 220; p. 1369.
- Salves and rouges, Lip. Riker & Hegeman Co. No. 105,965; Aug. 31; Gaz. vol. 217; p. 1658.
- Salves, medicinal tonics, laxatives, &c. Leselia Remedies Company. No. 106,239; Oct. 19; Gaz. vol. 219; p. 918.
- Salves, medicinal tonics, laxatives, remedies for coughs, epilepsy, &c. Leselia Remedies Company. No. 104,737; June 15; Gaz. vol. 215; p. 972.
- Sand-blast machines. Hoevel Sandblast Machine Co. No. 101,706; Jan. 5; Gaz. vol. 210; p. 395.
- Sandwiches and delicatessen. The German Buffet. No. 106,960; Nov. 9; Gaz. vol. 220; p. 670.

Alphabetical list of trade-marks—Continued.

- Sandwiches, Ice-cream. C. R. McDonald. No. 103,699; Apr. 13; Gaz. vol. 213; p. 741.
- Sanitary napkins. H. W. Holly. No. 102,099; Jan. 26; Gaz. vol. 210; p. 1389.
- Sanitary napkins. H. W. Holly. No. 107,174; Nov. 16; Gaz. vol. 220; p. 1036.
- Sanitary napkins. Standard Mail Order Company. No. 105,306; July 13; Gaz. vol. 216; p. 661.
- Sanitary napkins, Ladies'. F. and J. Clarke Manufacturing Company. No. 105,809; Aug. 17; Gaz. vol. 217; p. 1052.
- Sap or gum of the ficus-vine, Tree. M. Hydes. No. 106,333; Oct. 19; Gaz. vol. 219; p. 921.
- Saratoga chips. The Colorado Potato Flake and Mfg. Co. No. 107,416; Nov. 23; Gaz. vol. 220; p. 1370.
- Sarcoma extract for the treatment of malignant tumors. Farbwerke vorm. Meister Lucius & Brünning. No. 102,333; Feb. 9; Gaz. vol. 211; p. 633.
- Sardines. La Manna, Azema & Farnan. No. 107,351; Nov. 23; Gaz. vol. 220; p. 1368.
- Sardines and herrings, Preserved. C. Borgen. No. 102,734; Feb. 23; Gaz. vol. 211; p. 1257.
- Sash-cord. Geo. B. Carpenter & Co. No. 104,864; June 22; Gaz. vol. 215; p. 1258.
- Sash-cord and Sash-chain fasteners. The Allen-Sponsel Company. No. 102,324; Feb. 9; Gaz. vol. 211; p. 633.
- Sash-cords. B. & B. Sash Cord Co. No. 105,428; July 27; Gaz. vol. 216; p. 1313.
- Satchels, hand-bags, suitcases, &c. Detroit Refrigerator Grip Co. No. 101,835; Jan. 12; Gaz. vol. 210; p. 712.
- Satins. Broad. H. R. Mallinson & Co. No. 106,643; Oct. 26; Gaz. vol. 219; p. 1230.
- Sateen. Alliston, McIntyre & Co. No. 102,854; Feb. 23; Gaz. vol. 211; p. 1260.
- Sauce. Pratt-Low Preserving Co. No. 103,862; Apr. 20; Gaz. vol. 213; p. 1111.
- Sauce or relish. Hoe & Co. No. 104,452; June 1; Gaz. vol. 215; p. 317.
- Sausage-casings. The William Davies Company. No. 106,571; Oct. 26; Gaz. vol. 219; p. 1228.
- Sausage. Pork. Stevenson Packing Company. No. 106,040; Sept. 14; Gaz. vol. 218; p. 600.
- Saws. The Earle Gear & Machine Co. No. 101,731; Jan. 12; Gaz. vol. 210; p. 799.
- Saws. Simonds File Co. No. 104,007; Apr. 27; Gaz. vol. 213; p. 1441.
- Saws, Jewelers' piercing. L. H. Keller & Company. No. 104,539; June 1; Gaz. vol. 215; p. 320.
- Scale and insect exterminator. The Treevax Chemical Co. No. 103,455; Apr. 6; Gaz. vol. 213; p. 352.
- Scalp and dandruff preparation. G. Y. Janelis. No. 104,732; June 15; Gaz. vol. 215; p. 972.
- Scalp and hair tonics. F. De Martino. No. 106,649; Oct. 26; Gaz. vol. 219; p. 1230.
- Scarf-pins, necklaces, lavallières, rings, &c. R. H. Macy & Co. No. 104,071; Apr. 27; Gaz. vol. 213; p. 1443.
- Scarfs, neckscarfs, and jabots, Ladies' head and shoulder. The Hand Embroidery Co. No. 107,419; Nov. 23; Gaz. vol. 220; p. 1370.
- Scopolamin solution, Stable. The Hoffmann-La Roche Chemical Works. No. 103,289; Mar. 30; Gaz. vol. 212; p. 1683.
- Scouring preparation. Fitzpatrick Bros. No. 107,516; Dec. 7; Gaz. vol. 221; p. 346.
- Scissors and shears. The Acme Shear Company. No. 104,244; May 11; Gaz. vol. 214; p. 678.
- Scissors and shears. Landers, Frary & Clark. No. 105,600; Aug. 10; Gaz. vol. 217; p. 693.
- Scissors, shears, and certain named knives having steel blades. Landers, Frary & Clark. No. 105,236; July 13; Gaz. vol. 216; p. 659.
- Screw-cutting dies. Greenfield Tap & Die Corporation. No. 102,788; Feb. 23; Gaz. vol. 211; p. 1258.
- Screw-holder. Girard & Comb. No. 102,684; Feb. 23; Gaz. vol. 211; p. 1255.
- Screws. The Bristol Company. No. 103,846; Apr. 20; Gaz. vol. 213; p. 1111.
- Sealing and stapling machines. R. P. Andrews Paper Company. No. 107,486; Dec. 7; Gaz. vol. 221; p. 345.
- Sedative. The Bayer Company. No. 106,199; Oct. 19; Gaz. vol. 219; p. 917.
- Sedative and hypnotic. The Bayer Company. No. 106,202; Oct. 19; Gaz. vol. 219; p. 917.
- Sedative, antipyretic, antimalgic, &c. compounds. J. D. Riedel Aktiengesellschaft. No. 104,825; June 22; Gaz. vol. 215; p. 1257.
- Sedlitz-powders. Garfield & Co. No. 105,348; July 20; Gaz. vol. 216; p. 1008.
- Seed, Grass-. Whitney-Eckstein Seed Company. No. 103,983; Apr. 20; Gaz. vol. 213; p. 1115.
- Seed, Lawn-. H. B. Burdick. No. 101,829; Jan. 12; Gaz. vol. 210; p. 712.
- Seeds. Blackman & Griffin Co. No. 102,872; Feb. 23; Gaz. vol. 211; p. 1261.
- Seeds. The Illinois Seed Co. No. 105,536; Aug. 3; Gaz. vol. 217; p. 336.
- Seeds. The J. M. McCullough's Sons Company. No. 105,918; Aug. 24; Gaz. vol. 217; p. 1337.
- Seeds. Northfield Seed & Nursery Company. Nos. 102,721-3; Feb. 23; Gaz. vol. 211; p. 1256.
- Seeds. Northrup, King & Co. No. 104,566; June 1; Gaz. vol. 215; p. 321.
- Seeds. Northrup, King & Co. No. 105,447; July 27; Gaz. vol. 216; p. 1313.
- Seeds. Tucson Seed Company. No. 103,576; Apr. 6; Gaz. vol. 213; p. 356.
- Seeds. Wood-Beazley Seed Co. No. 104,662; June 8; Gaz. vol. 215; p. 663.
- Seeds, Alfalfa, clover, timothy, &c. Wood-Beazley Seed Co. No. 104,408; May 25; Gaz. vol. 214; p. 1317.
- Seeds and seed-grain, Certain field and grass. The Illinois Seed Co. Nos. 104,020-2; Apr. 27; Gaz. vol. 213; p. 1442.
- Seeds and seed-grain, Field and grass. The Illinois Seed Co. No. 104,024; Apr. 27; Gaz. vol. 213; p. 1442.
- Seeds, Certain named. The Illinois Seed Co. No. 104,023; Apr. 27; Gaz. vol. 213; p. 1442.
- Seeds, Clover, alsike, timothy, &c., grass-. H. Hirsch. No. 104,349; May 25; Gaz. vol. 214; p. 1315.
- Seeds, Farm and feed. Pedigreed Seed Co. No. 103,676; Apr. 13; Gaz. vol. 213; p. 740.
- Seeds, Lawn-. J. O. Johnson. No. 105,269; July 13; Gaz. vol. 216; p. 659.
- Seeds, Lawn-. J. O. Johnson. Nos. 105,596-7; Aug. 10; Gaz. vol. 217; p. 693.
- Seeds, Lawn-. J. O. Johnson. No. 105,897; Aug. 24; Gaz. vol. 217; p. 1337.
- Seeds, seed-grain, Field and grass. The Illinois Seed Co. No. 102,519; Feb. 9; Gaz. vol. 211; p. 638.
- Semaphore apparatus. Chicago Railway Signal and Supply Company. No. 105,388; July 20; Gaz. vol. 216; p. 1009.
- Semaphores and signaling apparatus for vehicles and craft of all kinds. H. Stobwasser. No. 105,086; July 6; Gaz. vol. 216; p. 322.
- Separators and parts thereof. Aktiebolaget Eskilstuna Separator. No. 106,133; Oct. 12; Gaz. vol. 219; p. 582.
- Serges. P. Katz. No. 103,167; Mar. 16; Gaz. vol. 212; p. 1054.
- Sewing and embroidery silks and silk floss. M. Hemlinway & Sons Silk Company. No. 102,685; Feb. 23; Gaz. vol. 211; p. 1255.
- Sewing-cotton. R. F. & J. Alexander & Co. No. 106,923; Nov. 9; Gaz. vol. 220; p. 669.
- Sewing-cotton or cotton thread. The Clark Thread Co. No. 106,565; Oct. 26; Gaz. vol. 219; p. 1227.
- Sewing-machines. National Cloak & Suit Company. No. 107,083; Nov. 9; Gaz. vol. 220; p. 674.
- Sewing-machines. National Sewing Machine Co. No. 104,227; May 11; Gaz. vol. 214; p. 678.
- Sewing-machines. The Priscilla Publishing Co. No. 104,570; June 1; Gaz. vol. 215; p. 321.
- Sewing-machines and parts thereof. Free Sewing Machine Co. No. 102,275; Feb. 2; Gaz. vol. 211; p. 280.
- Sewing-machines and parts thereof. Union Special Machine Company. No. 103,738; Apr. 13; Gaz. vol. 213; p. 742.
- Sewing-machines, parts, and appurtenances. W. C. Foley. No. 107,164; Nov. 16; Gaz. vol. 220; p. 1036.
- Sewing-machines, vacuum-cleaners, and carpet-sweepers. The Buckley-Newhall Company. Nos. 106,205-6; Oct. 19; Gaz. vol. 219; p. 917.
- Sewing-silk, buttonhole and machine twists. The Brainerd and Armstrong Company. No. 103,553; Apr. 6; Gaz. vol. 213; p. 355.
- Sewing-silk, cotton and linen thread. Henry Campbell & Company. No. 102,369; Feb. 9; Gaz. vol. 211; p. 634.
- Shades and reflectors, Metal. G. A. Harter. No. 101,676; Jan. 5; Gaz. vol. 210; p. 395.
- Shades, Window-. F. Schoenherr. No. 106,513; Oct. 19; Gaz. vol. 219; p. 927.
- Shades, Window-. The Western Shade Cloth Company. No. 102,320; Feb. 2; Gaz. vol. 211; p. 281.
- Shaft-hangers. Standard Pressed Steel Co. No. 106,695; Oct. 26; Gaz. vol. 219; p. 1231.
- Shampoo and hair-tonic, Combined. Miller Mfg. Co. No. 107,714; Dec. 21; Gaz. vol. 221; p. 1036.
- Shampoo, hair-tonic, dandruff-remover, &c. The Wiley Dandruff Remover Company. No. 105,004; June 29; Gaz. vol. 215; p. 1495.
- Shampoo, Liquid. The R. L. Watkins Company. No. 105,681; Aug. 10; Gaz. vol. 217; p. 696.
- Shampoo-powder. F. H. Gazzolo. No. 106,151; Oct. 12; Gaz. vol. 219; p. 583.
- Shampoo preparation. Vail Brothers. No. 106,525; Oct. 19; Gaz. vol. 219; p. 927.
- Shampoo preparations, Dry-. C. M. Foster. No. 101,840; Jan. 12; Gaz. vol. 210; p. 712.
- Shampooing preparation. T. H. Snyder. No. 101,756; Jan. 12; Gaz. vol. 210; p. 710.
- Sharp-pointed implements for treating facial blemishes. C. Blakeney. No. 102,363; Feb. 9; Gaz. vol. 211; p. 634.
- Shaving preparation, Liquid. Societe Anonyme de l'Emulsi-sior des Indes. No. 106,515; Oct. 19; Gaz. vol. 219; p. 927.
- Shawls. Queen City Knitting Mills. Nos. 106,674-5; Oct. 26; Gaz. vol. 219; p. 1231.
- Sheetings and drillings. Enoree Manufacturing Company. No. 102,386; Feb. 9; Gaz. vol. 211; p. 635.
- Sheetings and drillings. Piedmont Manufacturing Company. No. 106,494; Oct. 19; Gaz. vol. 219; p. 926.

- Sheetings, shirtings, muslins, &c., Bleached cotton. Wilson & Bradbury. No. 101,997; Jan. 19; Gaz. vol. 210; p. 1062.
- Shingle, Cement. Trussed Concrete Steel Company. No. 107,220; Nov. 16; Gaz. vol. 220; p. 1037.
- Shingles. J. H. Cavanaugh. No. 105,012; June 29; Gaz. vol. 215; p. 1495.
- Shingles. The National Building Supply Co. No. 106,065; Sept. 28; Gaz. vol. 218; p. 1153.
- Shingles. North Carolina Lumber Co. No. 104,229; May 11; Gaz. vol. 214; p. 678.
- Shirt, Negligée. F. Simon. No. 103,449; Apr. 6; Gaz. vol. 213; p. 352.
- Shirt-waists. Feldman Bros. No. 102,920; Mar. 2; Gaz. vol. 212; p. 324.
- Shirts. Deaver-Kennedy Company. No. 105,911; Aug. 24; Gaz. vol. 217; p. 1337.
- Shirts. Ferguson, Hene & Nevens. No. 104,975; June 29; Gaz. vol. 215; p. 1494.
- Shirts. M. Goldman. No. 106,428; Oct. 19; Gaz. vol. 219; p. 924.
- Shirts. A. Goldstein & Co. No. 102,605; Feb. 16; Gaz. vol. 211; p. 952.
- Shirts. Meyer Levin & Son. No. 106,347; Oct. 19; Gaz. vol. 219; p. 922.
- Shirts. Reliance Manufacturing Company. No. 105,753; Aug. 17; Gaz. vol. 217; p. 1050.
- Shirts and blouses. J. H. Rice & Friedmann Co. No. 102,175; Jan. 26; Gaz. vol. 210; p. 1392.
- Shirts and high-grade underwear. The Manhattan Shirt Company. No. 103,906; Apr. 20; Gaz. vol. 213; p. 1112.
- Shirts and nightgowns, Men's and boys' outside. Carson, Pirie, Scott & Co. No. 102,253; Feb. 2; Gaz. vol. 211; p. 279.
- Shirts and overalls, Negligée and work. S. Heller & Sons. No. 106,438; Oct. 19; Gaz. vol. 219; p. 924.
- Shirts and pajamas, Night. Steiner & Son. No. 104,192; May 4; Gaz. vol. 214; p. 341.
- Shirts and undershirts. National Dollar Shirt Shops. No. 105,694; Aug. 10; Gaz. vol. 217; p. 696.
- Shirts, collars, and cuffs. G. P. Ide & Co. No. 103,662; Apr. 13; Gaz. vol. 213; p. 739.
- Shirts, Convertible negligée. Columbia Shirt Company. No. 102,257; Feb. 2; Gaz. vol. 211; p. 279.
- Shirts, drawers, and union suits. The Manhattan Shirt Company. No. 106,644; Oct. 26; Gaz. vol. 219; p. 1230.
- Shirts, drawers, union suits, gloves, and hose. G. B. Williams Company. No. 104,553; June 1; Gaz. vol. 215; p. 320.
- Shirts, Dress and negligée. Hilker-Wiechers Mfg. Co. No. 103,514; Apr. 13; Gaz. vol. 213; p. 744.
- Shirts, Dress and negligée. Walter M. Steppacher & Bro. No. 107,296; Nov. 16; Gaz. vol. 220; p. 1040.
- Shirts, Dress and negligée. The Textile Shirt Co. No. 104,135; May 4; Gaz. vol. 214; p. 339.
- Shirts, jackets, trousers, and overalls. Work. Mohawk Overall Co. No. 104,464; June 1; Gaz. vol. 215; p. 318.
- Shirts, Men's. Berkowitz Bros. No. 103,147; Mar. 16; Gaz. vol. 212; p. 1053.
- Shirts, Men's dress and negligée. The Textile Shirt Co. No. 104,134; May 4; Gaz. vol. 214; p. 339.
- Shirts, Men's outer. Alexander & Co. No. 104,923; June 29; Gaz. vol. 215; p. 1493.
- Shirts, Negligée. A. L. Myerson. No. 102,296; Feb. 2; Gaz. vol. 211; p. 280.
- Shirts, Negligée and work. G. H. Nicholas. No. 104,191; May 4; Gaz. vol. 214; p. 341.
- Shirts, night-shirts, and pajamas. Oshinsky & Valentine. No. 103,176; Mar. 16; Gaz. vol. 212; p. 1054.
- Shirts, night-shirts, pajamas, and underwear. S. Liebovits and Sons. No. 106,873; Nov. 2; Gaz. vol. 220; p. 344.
- Shirts, Outer. N. Goodman. No. 105,656; Aug. 10; Gaz. vol. 217; p. 695.
- Shirts, Outer. Rice-Stix Dry Goods Company. No. 105,556; Aug. 3; Gaz. vol. 217; p. 336.
- Shirts, Outer. Salant & Salant. No. 101,718; Jan. 5; Gaz. vol. 210; p. 396.
- Shirts, Outing-. Rauh Bros. & Company. No. 102,586; Feb. 16; Gaz. vol. 211; p. 952.
- Shirts, pajamas, and nightgowns, Night. Steiner & Son. No. 103,185; Mar. 16; Gaz. vol. 212; p. 1054.
- Shirts, pajamas, collars, undervests, &c. F. Doble & Sons. No. 101,923; Jan. 19; Gaz. vol. 210; p. 1060.
- Shirts, pajamas, union suits, &c., Outer and dress. J. A. Scriven Company. No. 102,695; Feb. 23; Gaz. vol. 211; p. 1256.
- Shirts, shirt-waists, and blouses. G. H. Nicholas. No. 104,687; June 8; Gaz. vol. 215; p. 664.
- Shirts, undershirts, union suits, drawers, and pajamas. The Gano Downes Clothing Co. No. 105,654; Aug. 10; Gaz. vol. 217; p. 695.
- Shirts, underwear, &c., Men's. Strand Men's Wear Co. No. 107,024; Nov. 9; Gaz. vol. 220; p. 672.
- Shirts, Work-. Reliance Manufacturing Company. No. 107,528; Dec. 7; Gaz. vol. 221; p. 347.
- Shirts, Work-. Lewis Brothers Company. No. 106,785; Oct. 26; Gaz. vol. 219; p. 1234.
- Shirts, Work-. Salant & Salant. No. 102,311; Feb. 2; Gaz. vol. 211; p. 281.
- Shock-absorbers. Comfort Shock Absorber Co. No. 106,412; Oct. 19; Gaz. vol. 219; p. 924.
- Shock-absorbers. The Forest City Electric Company. No. 102,082; Jan. 26; Gaz. vol. 210; p. 1389.
- Shock-absorbers. The R. & R. Mfg. Co. No. 106,499; Oct. 19; Gaz. vol. 219; p. 926.
- Shock-absorbers. The Temco Electric Motor Co. No. 103,190; Mar. 16; Gaz. vol. 212; p. 1055.
- Shock-absorbers and brake-band lining. Gibson Automobile Company. No. 103,060; Mar. 16; Gaz. vol. 212; p. 1051.
- Shock-absorbers, Automobile. H. W. Johns-Manville Co. No. 102,414; Feb. 9; Gaz. vol. 211; p. 635.
- Shock-absorbers, Automobile. J. G. Rock. No. 105,230; July 13; Gaz. vol. 216; p. 658.
- Shoe blackings and polishes. The American Shoe Polish Company. No. 101,668; Jan. 5; Gaz. vol. 210; p. 394.
- Shoe covering and protectors. J. B. Mitchell. No. 105,551; Aug. 3; Gaz. vol. 217; p. 336.
- Shoe dressing and polish. L. B. Kunkel. No. 102,942; Mar. 2; Gaz. vol. 212; p. 324.
- Shoe dressings and polishes. The Feis Company. No. 101,704; Jan. 5; Gaz. vol. 210; p. 395.
- Shoe-heels, Resilient. J. G. Tufford. No. 101,991; Jan. 19; Gaz. vol. 210; p. 1062.
- Shoe-insoles. Sanitary Welt Insole Company. No. 102,183; Jan. 26; Gaz. vol. 210; p. 1392.
- Shoe-laces. The United Lace & Braid Manufacturing Company. Nos. 102,470-1; Feb. 9; Gaz. vol. 211; p. 637.
- Shoe-lacings. Barthels Manufacturing Co. Nos. 105,777-8; Aug. 17; Gaz. vol. 217; p. 1051.
- Shoe-lacings. Joslin Mfg. Co. No. 102,612; Feb. 16; Gaz. vol. 211; p. 952.
- Shoe-polish. W. A. Layman. No. 102,975; Mar. 9; Gaz. vol. 212; p. 685.
- Shoe polishes and dressings. Peppas & Alex Company. No. 105,745; Aug. 17; Gaz. vol. 217; p. 1050.
- Shoe soles and heels, Composition. Avon Sole Company. No. 104,925; June 29; Gaz. vol. 215; p. 1493.
- Shoes. Rogers Peet Company. No. 106,366; Oct. 19; Gaz. vol. 219; p. 922.
- Shoes. Stonefield-Evans Shoe Co. No. 103,830; Apr. 13; Gaz. vol. 213; p. 745.
- Shoes. Watson Shoe Co. No. 106,532; Oct. 19; Gaz. vol. 219; p. 927.
- Shoes and other footwear. De Cou Brothers Company. No. 106,579; Oct. 26; Gaz. vol. 219; p. 1228.
- Shoes and preparation for resisting etching-acids, Preparation for stiffening box-toes of. Durlacque Manufacturing Company. No. 105,891; Aug. 24; Gaz. vol. 217; p. 1336.
- Shoes and slippers, Felt. Daniel Green Felt Shoe Company. No. 104,600; June 8; Gaz. vol. 215; p. 661.
- Shoes and slippers, Felt. Standard Felt Company. No. 105,085; July 6; Gaz. vol. 216; p. 322.
- Shoes and slippers, Leather and felt. Daniel Green Felt Shoe Company. No. 104,301; May 18; Gaz. vol. 214; p. 1021.
- Shoes and slippers, Women's. Su'cs. de Eduardo Gonzalez & Co. S. en C. No. 107,215; Nov. 16; Gaz. vol. 220; p. 1037.
- Shoes, Basket-ball. Beacon Falls Rubber Shoe Co. No. 105,429; July 27; Gaz. vol. 216; p. 1313.
- Shoes, boots, and rubbers. Harry Eby Shoe Co. No. 103,946; Apr. 20; Gaz. vol. 213; p. 1114.
- Shoes, Canvas and leather. Shaft-Pierce Shoe Co. No. 107,793; Dec. 28; Gaz. vol. 217; p. 1447.
- Shoes, Children's. F. M. Fargo. No. 105,791; Aug. 17; Gaz. vol. 217; p. 1051.
- Shoes, Children's. C. F. Kolb, Jr. No. 102,973; Mar. 9; Gaz. vol. 212; p. 685.
- Shoes, Children's leather. Goodwin Shoe Co. No. 102,091; Jan. 26; Gaz. vol. 210; p. 1389.
- Shoes, Infants'. G. W. Chesbrough. No. 107,053; Nov. 9; Gaz. vol. 220; p. 673.
- Shoes, Infants' and children's leather. J. F. Budd Shoe Company. No. 101,620; Jan. 5; Gaz. vol. 210; p. 393.
- Shoes, Infants' and children's leather. Valley Shoe Co. No. 106,021; Sept. 14; Gaz. vol. 218; p. 600.
- Shoes, Ladies' and men's leather. Thomas Cort, Inc. No. 101,621; Jan. 5; Gaz. vol. 210; p. 393.
- Shoes, Ladies' leather and canvas. The A. E. Pitts Shoe Company. No. 104,263; May 11; Gaz. vol. 214; p. 679.
- Shoes, Ladies', misses', and children's. Miller, Hess & Company. No. 104,333; May 18; Gaz. vol. 214; p. 1022.
- Shoes, Leather. Craddock-Terry Company. Nos. 104,972-3; June 29; Gaz. vol. 215; p. 1494.
- Shoes, Leather. Craddock-Terry Company. No. 105,253; July 13; Gaz. vol. 216; p. 659.
- Shoes, Leather. J. B. Greenhut Co., successors to Greenhut-Siegel Cooper Co. No. 105,350; July 20; Gaz. vol. 216; p. 1008.
- Shoes, Leather. Wm. Henne & Co. No. 106,604; Oct. 26; Gaz. vol. 219; p. 1229.
- Shoes, Leather. Kiddo Shoe Company. No. 105,318; July 20; Gaz. vol. 216; p. 1007.
- Shoes, Leather. Lunn & Sweet Shoe Company. No. 101,712; Jan. 5; Gaz. vol. 210; p. 396.
- Shoes, Leather. F. Melville, Jr. No. 104,625; June 8; Gaz. vol. 215; p. 662.
- Shoes, Leather. F. Melville, Jr. No. 107,038; Nov. 9; Gaz. vol. 220; p. 672.

Alphabetical list of trade-marks—Continued.

- Shoes, Leather. J. K. Orr Shoe Co. No. 101,647; Jan. 5; Gaz. vol. 210; p. 394.
- Shoes, Leather. J. K. Orr Shoe Co. No. 101,869; Jan. 12; Gaz. vol. 210; p. 713.
- Shoes, Leather. J. Pearl. No. 102,164; Jan. 26; Gaz. vol. 210; p. 1391.
- Shoes, Leather. The Perfect Shoe Manufacturing Co. No. 102,438; Feb. 9; Gaz. vol. 211; p. 636.
- Shoes, Leather. Washington Shoe Manufacturing Co. No. 102,989; Mar. 9; Gaz. vol. 212; p. 686.
- Shoes, Leather. Wichert & Gardiner. No. 106,719; Oct. 26; Gaz. vol. 219; p. 1232.
- Shoes, Leather. J. H. Winchell & Co. No. 102,235; Jan. 26; Gaz. vol. 210; p. 1394.
- Shoes, Leather and canvas. Bielefeld & Spahn. No. 103,884; Apr. 20; Gaz. vol. 213; p. 1112.
- Shoes, Leather, canvas, and cloth. Dunn-Salmon Company. No. 101,673; Jan. 5; Gaz. vol. 210; p. 394.
- Shoes, Leather parts for. Daniel Forbes Company. No. 107,815; Dec. 28; Gaz. vol. 221; p. 1447.
- Shoes, Leather, rubber, and canvas. Northern Shoe Company. No. 101,867; Jan. 12; Gaz. vol. 210; p. 713.
- Shoes, Men's leather and canvas. The A. E. Pitts Shoe Company. No. 104,264; May 11; Gaz. vol. 214; p. 679.
- Shoes, millinery, (hats,) wearing-apparel, &c. Maison Blanche Co. No. 103,170; Mar. 16; Gaz. vol. 212; p. 1054.
- Shoes, Misses' and children's leather. J. J. Schuiten & Co. No. 105,399; July 20; Gaz. vol. 216; p. 1009.
- Shoes, slippers, caps, corsets, and suits, Bathing. E. A. Guinzburg. No. 107,707; Dec. 21; Gaz. vol. 221; p. 1036.
- Shoe soles and heels. A. & A. Rubber Company. No. 103,194; Mar. 23; Gaz. vol. 212; p. 1353.
- Shoe soles and heels. Clark Rubber Manufacturing Co. No. 103,557; Apr. 6; Gaz. vol. 213; p. 355.
- Shoes, Women's leather. Brown Shoe Company. No. 105,249; July 13; Gaz. vol. 216; p. 659.
- Shoepacks. Palmer-McLellan Shoepack Co. No. 105,670; Aug. 10; Gaz. vol. 217; p. 696.
- Shortening, Pastry-. Atlanta Refining & Manufacturing Company. No. 103,844; Apr. 20; Gaz. vol. 213; p. 1111.
- Shovels. American Manufacturing Co. Nos. 107,828-30; Dec. 28; Gaz. vol. 221; p. 1448.
- Shovels. Hardsocg Manufacturing Co. No. 107,784; Dec. 28; Gaz. vol. 221; p. 1446.
- Show, wall, clothing, dress, &c., cases. H. Ehrlich & Sons Mfg. Co. No. 107,160; Nov. 16; Gaz. vol. 220; p. 1035.
- Side dish consisting of certain named ingredients. E. Pretto & C. No. 107,007; Nov. 9; Gaz. vol. 220; p. 671.
- Sieve shakers, Testing-. The W. S. Tyler Company. No. 105,404; July 20; Gaz. vol. 216; p. 1010.
- Signal-lights, Burning. Coston Signal. No. 101,919; Jan. 19; Gaz. vol. 210; p. 1059.
- Signs, Enameled metal. Ingram-Richardson Manufacturing Company. No. 105,851; Aug. 24; Gaz. vol. 217; p. 1335.
- Signs, Illuminated show-window. The Advertogram Co. No. 105,832; Aug. 24; Gaz. vol. 217; p. 1335.
- Signs, Illuminated structural show-window. Minimax Factories. No. 107,691; Dec. 21; Gaz. vol. 221; p. 1035.
- Signs, principally of metal, Advertising-. Passaic Metal Ware Co. No. 102,161; Jan. 26; Gaz. vol. 210; p. 1391.
- Silicate of soda. E. A. Paterson. No. 104,062; Apr. 27; Gaz. vol. 213; p. 1443.
- Silicon carbide used for refractory purposes, By-product obtained in producing. The Exolon Company. No. 105,838; Aug. 24; Gaz. vol. 217; p. 1335.
- Silk and cotton dress goods. Haas Brothers. No. 101,635; Jan. 5; Gaz. vol. 210; p. 393.
- Silk and silk ribbons, Broad. H. R. Mallinson. No. 107,802; Dec. 28; Gaz. vol. 221; p. 1447.
- Silk, cotton, and wool and combinations thereof piece goods. Sebro Dress Fabric Co. No. 106,806; Oct. 26; Gaz. vol. 219; p. 1235.
- Silk, cotton, linen, &c. piece goods. Manville Company. No. 103,438; Apr. 6; Gaz. vol. 213; p. 352.
- Silk dress goods. Haas Brothers. Nos. 106,033-4; Sept. 14; Gaz. vol. 218; p. 600.
- Silk in the piece. Woven. H. R. Mallinson & Co. No. 106,985; Nov. 9; Gaz. vol. 220; p. 671.
- Silk in the piece. Woven. H. R. Mallinson & Co. No. 107,791; Dec. 28; Gaz. vol. 221; p. 1447.
- Silk piece goods. H. R. Mallinson & Co. No. 105,466; July 27; Gaz. vol. 216; p. 1314.
- Silk piece goods. M. C. Migel & Co. No. 104,804; June 15; Gaz. vol. 215; p. 974.
- Silk piece goods. Wechsler-Barber Silk Co. Nos. 104,854-5; June 22; Gaz. vol. 215; p. 1258.
- Silk piece goods and lining-silks. W. Aisberg & Co. No. 106,822; Nov. 2; Gaz. vol. 220; p. 343.
- Silk piece goods and printed silks. M. C. Migel & Company. No. 101,862; Jan. 12; Gaz. vol. 210; p. 713.
- Silk, satin, cotton, and mixed silk and cotton piece goods. Burton Bros. & Co. No. 105,713; Aug. 17; Gaz. vol. 217; p. 1049.
- Silk, velvet, satin, &c., ribbons. E. & H. Levy. No. 105,066; July 6; Gaz. vol. 216; p. 322.
- Silk, Wash-. J. Simpson & Company. No. 107,208; Nov. 16; Gaz. vol. 220; p. 1037.
- Silk, wool, linen, and cotton piece goods. Bianchini, Férier. Nos. 106,549-51; Oct. 26; Gaz. vol. 219; p. 1227.
- Silks. J. Hirsch & Sons. No. 102,712; Feb. 23; Gaz. vol. 211; p. 1256.
- Silks, Broad. H. R. Mallinson & Co. No. 106,642; Oct. 26; Gaz. vol. 219; p. 1230.
- Silks, Broad. J. A. Migel. No. 107,803; Dec. 28; Gaz. vol. 221; p. 1447.
- Silks in the piece. T. J. Mitchell. No. 102,756; Feb. 23; Gaz. vol. 211; p. 1257.
- Silks in the piece. L. Roessel & Co. No. 104,006; Apr. 27; Gaz. vol. 213; p. 1441.
- Silks, Sewing, knitting, &c. The Brainerd and Armstrong Company. Nos. 103,642-3; Apr. 13; Gaz. vol. 213; p. 739.
- Silos and tanks. The C. C. Fouts Co. No. 106,320; Oct. 19; Gaz. vol. 219; p. 921.
- Silos and tanks. Pacific Tank & Pipe Co. No. 103,297; Mar. 30; Gaz. vol. 212; p. 1683.
- Silver and nickel polish. W. Colville. No. 105,974; Sept. 7; Gaz. vol. 218; p. 317.
- Silver burnishing and cleaning machines. Tahara Company of America. No. 101,656; Jan. 5; Gaz. vol. 210; p. 394.
- Silver-lead, Ceylon plumbago, and flake graphite, East India. H. M. Riddle. No. 106,180; Oct. 12; Gaz. vol. 219; p. 583.
- Silver novelties, Certain named. Bay State Jewelry and Silversmiths Co. No. 104,012; Apr. 27; Gaz. vol. 213; p. 1441.
- Silver-plating preparation. National Silver Plating Laboratories. No. 106,887; Nov. 2; Gaz. vol. 220; p. 345.
- Silverware, Flat sterling. Weidlich Sterling Spoon Co. No. 103,304; Mar. 30; Gaz. vol. 212; p. 1684.
- Silverware, Hollow, &c. The Sheffield Silver Co. No. 107,747; Dec. 28; Gaz. vol. 221; p. 1445.
- Silverware, jewelry, &c., cases or containers. The United Jewelers. No. 102,216; Jan. 26; Gaz. vol. 210; p. 1393.
- Sinks, basins, lavatories, closets, &c. The Sanitary Earthenware Specialty Co. No. 101,981; Jan. 19; Gaz. vol. 210; p. 1061.
- Sized and stiffened cloth. The Holliston Mills. No. 103,318; Mar. 30; Gaz. vol. 212; p. 1684.
- Sizing, Adhesive. The Gum Tragacal Supply Company. No. 106,964; Nov. 9; Gaz. vol. 220; p. 670.
- Sizing, Adhesive. The Gum Tragacal Supply Company. No. 106,966; Nov. 9; Gaz. vol. 220; p. 670.
- Sizing and finishing product for textile fabrics. John Campbell & Co. No. 105,011; June 29; Gaz. vol. 215; p. 1495.
- Sizing, dressing, and finishing fabrics, &c., Mucilaginous product for. The Gum Tragacal Supply Company. No. 106,963; Nov. 9; Gaz. vol. 220; p. 670.
- Sizing, dressing, and finishing fabrics, Mucilaginous product for. The Gum Tragacal Supply Company. No. 106,965; Nov. 9; Gaz. vol. 220; p. 670.
- Skirts and dresses, Ladies' outer. Royal Skirt & Dress Mfg. Co. No. 102,658; Feb. 16; Gaz. vol. 211; p. 954.
- Slate and roofing-slate. Rising & Nelson Slate Co. No. 106,903; Nov. 2; Gaz. vol. 220; p. 345.
- Slates, School-. National School Slate Company. No. 103,622; Apr. 6; Gaz. vol. 213; p. 357.
- Sleds. S. L. Allen & Co. No. 104,116; May 4; Gaz. vol. 214; p. 339.
- Slipper-soles. J. H. Wallace. No. 102,774; Feb. 23; Gaz. vol. 211; p. 1258.
- Slippers, Leather. J. J. O'Connell. No. 102,929; Mar. 2; Gaz. vol. 212; p. 324.
- Smoke-indicators. Boiler Room Improvement Co. No. 106,933; Nov. 9; Gaz. vol. 220; p. 669.
- Smokers' articles and appliances not of precious metal. W. F. Hirschmann. No. 106,607; Oct. 26; Gaz. vol. 219; p. 1229.
- Snap-fasteners. Walde & Co. No. 104,241; May 11; Gaz. vol. 214; p. 678.
- Snuff. C. Kaplan. No. 107,616; Dec. 14; Gaz. vol. 221; p. 732.
- Snuff, Catarrh-. M. R. Valenzuela. No. 106,269; Oct. 19; Gaz. vol. 219; p. 919.
- Soap, Block & Co. No. 102,873; Feb. 23; Gaz. vol. 211; p. 1261.
- Soap. Bristol-Myers Company. No. 105,646; Aug. 10; Gaz. vol. 217; p. 695.
- Soap. C. M. Conneft. No. 105,957; Aug. 31; Gaz. vol. 217; p. 1657.
- Soap. D. A. B. Soap Company. No. 103,750; Apr. 13; Gaz. vol. 213; p. 742.
- Soap. H. Gabilla. No. 105,999; Sept. 14; Gaz. vol. 218; p. 599.
- Soap. The Gardner Pine Needle Extract Company. No. 107,227; Nov. 16; Gaz. vol. 220; p. 1038.
- Soap. J. Gordon. No. 102,518; Feb. 9; Gaz. vol. 211; p. 638.
- Soap. Interstate Cotton Oil Refining Co. No. 101,948; Jan. 19; Gaz. vol. 210; p. 1060.
- Soap. Iowa Soap Co. No. 102,880; Feb. 23; Gaz. vol. 211; p. 1261.
- Soap. B. J. Johnson Soap Company. No. 102,862; Feb. 23; Gaz. vol. 211; p. 1261.
- Soap. J. S. Merrell Drug Co. No. 102,294; Feb. 2; Gaz. vol. 211; p. 280.

- Soap. H. J. Kohl. No. 107,350; Nov. 23; Gaz. vol. 220; p. 1368.
- Soap. Lantz Bros. & Co. No. 102,123; Jan. 26; Gaz. vol. 210; p. 1390.
- Soap. Lantz Bros. & Co. No. 103,432; Apr. 6; Gaz. vol. 213; p. 352.
- Soap. Los Angeles Soap Company. No. 101,787; Jan. 12; Gaz. vol. 210; p. 710.
- Soap. Los Angeles Soap Company. No. 105,943; Aug. 31; Gaz. vol. 217; p. 1657.
- Soap. Z. Miwa. No. 103,822; Apr. 13; Gaz. vol. 213; p. 744.
- Soap. The Morey Mercantile Company. No. 102,140; Jan. 26; Gaz. vol. 210; p. 1391.
- Soap. Peet Bros. Mfg. Co. No. 106,177; Oct. 12; Gaz. vol. 219; p. 583.
- Soap. John T. Stanley Co. Nos. 106,126-7; Oct. 12; Gaz. vol. 219; p. 582.
- Soap. John T. Stanley Co. No. 106,379; Oct. 19; Gaz. vol. 219; p. 923.
- Soap. United Drug Company. No. 103,980; Apr. 20; Gaz. vol. 213; p. 1115.
- Soap. Wm. Walfke & Co. No. 105,624; Aug. 10; Gaz. vol. 217; p. 694.
- Soap and shaving-soap. Yozo Co. No. 101,817; Jan. 12; Gaz. vol. 210; p. 711.
- Soaps and soap chips. Colgate & Co. No. 107,777; Dec. 28; Gaz. vol. 221; p. 1446.
- Soap and soap powder. P. C. Tomson & Co. No. 104,958; June 29; Gaz. vol. 215; p. 1494.
- Soap and soap powder, Perfumed, &c. John Gosnell & Company. No. 107,753; Dec. 28; Gaz. vol. 221; p. 1446.
- Soap, Cold-water. Swift and Company. No. 101,884; Jan. 12; Gaz. vol. 210; p. 713.
- Soap-dishes, Glass. S. Hipkins. No. 105,849; Aug. 24; Gaz. vol. 217; p. 1335.
- Soap for the face and hands, Cream. Embury & De Melt. No. 104,215; May 11; Gaz. vol. 214; p. 677.
- Soap, Hand-. The Northwestern Chemical Company. No. 104,103; Apr. 27; Gaz. vol. 213; p. 1444.
- Soap, Laundry and toilet. C. F. Bartenfeld. No. 102,957; Mar. 9; Gaz. vol. 212; p. 685.
- Soap, Laundry, bath, and toilet. James S. Kirk & Company. No. 106,339; Oct. 19; Gaz. vol. 219; p. 921.
- Soap, Liquid toilet. National Chemical Company of California. No. 102,980; Mar. 9; Gaz. vol. 212; p. 685.
- Soap, Paste. The Skat Company. No. 107,291; Nov. 16; Gaz. vol. 220; p. 1039.
- Soap, Perfumed. J. L. Grossmith. No. 104,361; May 25; Gaz. vol. 214; p. 1315.
- Soap, Preparation of liquid and hard. L. C. Wedgefuth. No. 103,925; Apr. 20; Gaz. vol. 213; p. 1113.
- Soap, Solid and liquid. Richard Hudnut. No. 101,946; Jan. 19; Gaz. vol. 210; p. 1060.
- Soap, (solid and liquid.) Richard Hudnut. No. 102,412; Feb. 9; Gaz. vol. 211; p. 635.
- Soap, soap powder, and cleansers. P. C. Tomson & Co. No. 102,910; Mar. 2; Gaz. vol. 212; p. 323.
- Soap, soap powder, cleanser, &c. Liquid. Theo. B. Robertson Soap Co. No. 107,012; Nov. 9; Gaz. vol. 220; p. 671.
- Soap, Substitute for shaving-. De Joigny Shaving Mist Co. No. 103,227; Mar. 23; Gaz. vol. 212; p. 1354.
- Soap, Toilet. The Cincinnati Soap Co. No. 104,931; June 29; Gaz. vol. 215; p. 1493.
- Soap, Toilet. Colgate & Co. No. 104,416; May 25; Gaz. vol. 214; p. 1317.
- Soap, Toilet. The Cudahy Packing Company. No. 105,836; Aug. 24; Gaz. vol. 217; p. 1335.
- Soap, Toilet. M. Osterman. No. 104,291; May 18; Gaz. vol. 214; p. 1021.
- Soap, Toilet. The J. B. Williams Company. No. 105,770; Aug. 17; Gaz. vol. 217; p. 1050.
- Soap, Toilet. The J. B. Williams Company. No. 106,388; Oct. 19; Gaz. vol. 219; p. 923.
- Soap, Toilet and laundry. Colgate & Co. No. 106,411; Oct. 19; Gaz. vol. 219; p. 924.
- Soap, Toilet and laundry. Colgate & Co. No. 106,743; Oct. 26; Gaz. vol. 219; p. 1233.
- Soap, washing powders and compounds, &c. McClinton's Limited. No. 103,957; Apr. 20; Gaz. vol. 213; p. 1114.
- Soap, White laundry. Swift and Company. No. 103,831; Apr. 13; Gaz. vol. 213; p. 745.
- Soaps. C. Barrie. No. 102,326; Feb. 9; Gaz. vol. 211; p. 633.
- Soaps. Gesellschaft für Fett- und Oel-Raffination mit beschränkter Haftung. No. 102,576; Feb. 23; Gaz. vol. 211; p. 1261.
- Soaps. G. Montz. No. 102,139; Jan. 26; Gaz. vol. 210; p. 1391.
- Soaps. Frederick Stearns & Co. No. 103,872; Apr. 20; Gaz. vol. 213; p. 1111.
- Soaps. Triumph Liquid Soap Company. No. 104,238; May 11; Gaz. vol. 214; p. 678.
- Soaps and cleansing-powders. Okomo Soap Company. No. 103,593; Apr. 6; Gaz. vol. 213; p. 357.
- Soaps and cleaning preparations. Orona Mfg. Co. No. 101,868; Jan. 12; Gaz. vol. 210; p. 713.
- Soaps and metal-polishes. Automobile-. National Oil & Supply Company. No. 102,433; Feb. 9; Gaz. vol. 211; p. 636.
- Soaps, Medicinal and toilet. Regents Mercantile Corporation. No. 103,964; Apr. 20; Gaz. vol. 213; p. 1114.
- Soaps, Perfumed washing and shaving. J. & E. Atkinson, Limited. No. 103,804; Apr. 13; Gaz. vol. 213; p. 744.
- Soaps, soap pastes, and soap powders. Gallet, Pellerin et Cie. No. 101,629; Jan. 5; Gaz. vol. 210; p. 393.
- Soaps, Toilet. S. Fargo. No. 102,754; Feb. 23; Gaz. vol. 211; p. 1257.
- Soaps, Toilet. S. Fargo. No. 106,313; Oct. 19; Gaz. vol. 219; p. 920.
- Soaps, Toilet. Goodrich Drug Co. No. 106,000; Sept. 14; Gaz. vol. 218; p. 599.
- Soaps, Toilet. Piesse & Lubin. No. 103,360; Mar. 30; Gaz. vol. 212; p. 1635.
- Soaps, Toilet. The Remmers Soap Company. No. 103,731; Apr. 13; Gaz. vol. 213; p. 742.
- Soaps, Toilet. J. T. Stanley. No. 103,126; Mar. 16; Gaz. vol. 212; p. 1053.
- Soaps, Toilet. Swift and Company. No. 107,435; Nov. 23; Gaz. vol. 220; p. 1371.
- Soaps, Toilet, medicinal, and shaving. Barclay & Co. No. 104,412; May 25; Gaz. vol. 214; p. 1317.
- Soaps, washing powders and compounds, Toilet, &c. E. M. Attridge. No. 104,699; June 15; Gaz. vol. 215; p. 971.
- Sockets, Pendant and wall. The New England Electric Company. No. 101,968; Jan. 19; Gaz. vol. 210; p. 1061.
- Socks. Wheeler & Motter Mercantile Company. No. 105,682; Aug. 10; Gaz. vol. 217; p. 696.
- Soda-ash. The Columbia Chemical Company. No. 102,962; Mar. 9; Gaz. vol. 212; p. 685.
- Soda for washing and scouring. Colgate & Co. No. 105,481; July 27; Gaz. vol. 216; p. 1314.
- Soda-water and soda-fountain beverage. A. Seidel & Sons. No. 103,917; Apr. 20; Gaz. vol. 213; p. 1113.
- Sodium powder used as a cleansing compound. Charon Products Company. No. 104,143; May 4; Gaz. vol. 214; p. 339.
- Soil and seed inoculator. M. O. Reiche. No. 102,904; Mar. 2; Gaz. vol. 212; p. 323.
- Solder, Aluminum. K. R. Peters. No. 105,323; July 20; Gaz. vol. 216; p. 1007.
- Soldering-flux. I. R. Lederer. No. 107,355; Nov. 23; Gaz. vol. 220; p. 1368.
- Soldering liquid. Krolkowski Bros. & Grzymkowski. No. 102,420; Feb. 9; Gaz. vol. 211; p. 636.
- Soldering salts and fluid, borax, cyanid of potash, &c. L. A. Harris. No. 103,895; Apr. 20; Gaz. vol. 213; p. 1112.
- Solution for eczema and other skin diseases, Chemical. G. T. Burnham. No. 106,293; Oct. 19; Gaz. vol. 219; p. 920.
- Soup-bours. Thompson Milling Company. No. 104,520; June 1; Gaz. vol. 215; p. 319.
- Soup stock and dressing for salads. S. R. Takasugi. No. 103,865; Apr. 20; Gaz. vol. 213; p. 1111.
- Sorghum with corn-syrup. Best-Clymer Manufacturing Company. No. 105,644; Aug. 10; Gaz. vol. 217; p. 695.
- Sound-reproducers. Thomas A. Edison, Inc. No. 107,252; Nov. 16; Gaz. vol. 220; p. 1038.
- Spad. Black Diamond Spad Co. No. 104,368; May 25; Gaz. vol. 214; p. 1315.
- Spark-plug. W. S. Brown, Jr. No. 103,046; Mar. 16; Gaz. vol. 212; p. 1050.
- Spark-plugs. Champion Ignition Co. No. 103,255; Mar. 23; Gaz. vol. 212; p. 1354.
- Spark-plugs. Champion Spark Plug Company. No. 104,202; May 11; Gaz. vol. 214; p. 677.
- Spark-plugs. Champion Spark Plug Company. No. 107,050; Nov. 9; Gaz. vol. 220; p. 673.
- Spark-plugs. A. R. Mosler & Co. No. 107,082; Nov. 9; Gaz. vol. 220; p. 674.
- Spark plugs and coils. Heinze Electric Company. No. 105,532; Aug. 3; Gaz. vol. 217; p. 335.
- Spark-plugs and valve-lifters. The Auburn Ignition Mfg. Co. No. 106,089; Oct. 12; Gaz. vol. 219; p. 581.
- Specific activators of the intestinal digestive glands. Armour and Company. No. 105,180; July 13; Gaz. vol. 216; p. 657.
- Spectacle-frames and eyeglass-mountings. The Walman-Benson Optical Co. No. 103,078; Mar. 16; Gaz. vol. 212; p. 1051.
- Spectacles. A. K. Hawkes Co. No. 105,531; Aug. 3; Gaz. vol. 217; p. 335.
- Spectacles. Noyes Bros. & Cutler. No. 102,615; Feb. 16; Gaz. vol. 211; p. 953.
- Spelter. Chance & Hunt. No. 104,377; May 25; Gaz. vol. 214; p. 1316.
- Spices and flavoring extracts for foods. Regents Mercantile Corporation. No. 105,422; July 20; Gaz. vol. 216; p. 1010.
- Spices and mustard. E. R. Durkee & Co. No. 106,754; Oct. 26; Gaz. vol. 219; p. 1233.
- Spices, flavoring extracts. The Kusac Company. No. 106,782; Oct. 26; Gaz. vol. 219; p. 1234.
- Spindle machines, Multiple. The Bullard Machine Tool Co. No. 102,874; Feb. 23; Gaz. vol. 211; p. 1261.
- Spindles, Internal grinding-. The Norma Company of America. No. 107,502; Dec. 7; Gaz. vol. 221; p. 346.
- Springs for vehicles and the like, Leaf-. Betts Spring Co. No. 101,670; Jan. 5; Gaz. vol. 210; p. 394.

Alphabetical list of trade-marks—Continued.

- Sponges. McKesson & Robbins. No. 106,241; Oct. 19; Gaz. vol. 219; p. 918.
- Sporting goods, Certain named. The Enterprise Manufacturing Company. Nos. 106,419-20; Oct. 19; Gaz. vol. 219; p. 924.
- Sporting goods, Certain named. The Horace Partridge Company. No. 105,741; Aug. 17; Gaz. vol. 217; p. 1050.
- Sporting goods, Certain named. The Jack Shannon Company. No. 105,760; Aug. 17; Gaz. vol. 217; p. 1050.
- Sporting implements and apparatus, Certain named. John Wanamaker, New York. No. 107,718; Dec. 21; Gaz. vol. 221; p. 1036.
- Sporting supplies, Certain named. The Enterprise Manufacturing Company. No. 105,722; Aug. 17; Gaz. vol. 217; p. 1049.
- Sprayers, Hand and power. The H. L. Hurst Mfg. Co. No. 104,876; June 22; Gaz. vol. 215; p. 1258.
- Spraying and powdering preparation, Plant. The Kill-Tone Company. No. 107,073; Nov. 9; Gaz. vol. 220; p. 673.
- Springs, Bed-. Minneapolis Bedding Company. No. 104,334; May 18; Gaz. vol. 214; p. 1022.
- Sprinklers, Automatic. Associated Automatic Sprinkler Co. No. 105,008; June 29; Gaz. vol. 215; p. 1495.
- Squares, bevels, levels, &c. Henry Disston & Sons. No. 101,921; Jan. 19; Gaz. vol. 210; p. 1059.
- Stain-remover. T. J. Duffy. No. 103,841; Apr. 13; Gaz. vol. 213; p. 745.
- Stain-remover, gun-cleaner. LBO Company. No. 106,870; Nov. 2; Gaz. vol. 220; p. 344.
- Stakes or anchors, Certain metallic. Pull-U-Out Sales Co. No. 107,814; Dec. 28; Gaz. vol. 221; p. 1447.
- Stamp-fixing machines. The Postmaster Company. No. 104,106; Apr. 27; Gaz. vol. 213; p. 1444.
- Stanchions and metal farm-gates. Moyer Manufacturing Company. No. 103,669; Apr. 13; Gaz. vol. 213; p. 740.
- Starch. Corn Products Refining Co. No. 105,835; Aug. 24; Gaz. vol. 217; p. 1335.
- Starch. National Starch Co. No. 105,695; Aug. 10; Gaz. vol. 217; p. 696.
- Starch. National Starch Co. No. 106,249; Oct. 19; Gaz. vol. 219; p. 918.
- Starch-gloss. C. J. Ibbott. No. 105,659; Aug. 10; Gaz. vol. 217; p. 695.
- Starch, Laundry. National Starch Co. No. 101,966; Jan. 19; Gaz. vol. 210; p. 1061.
- Starch to perfume same and prevent iron from sticking. Compound to be added to. F. W. Dreffein. No. 104,673; June 8; Gaz. vol. 215; p. 663.
- Starch, Wheat and corn. The Keever Starch Company. No. 107,446; Nov. 30; Gaz. vol. 220; p. 1715.
- Statements, auditors' reports, and bulletins, Periodical. Audit-Bureau of Circulations. No. 102,730; Feb. 23; Gaz. vol. 211; p. 1257.
- Stationers' supplies, Certain named. William R. Jenkins Co. No. 106,336; Oct. 19; Gaz. vol. 219; p. 921.
- Stationers' supplies, Certain named. William Mann Company. Nos. 106,645-6; Oct. 26; Gaz. vol. 219; p. 1230.
- Stationery and supplies consisting of certain named articles. Tower Manufacturing & Novelty Company. No. 107,748; Dec. 28; Gaz. vol. 221; p. 1445.
- Stationery supplies, Certain named. Geo. Borgfeldt & Co. No. 103,886; Apr. 20; Gaz. vol. 213; p. 1112.
- Staying-machines. M. D. Knowlton Company. No. 106,627; Oct. 26; Gaz. vol. 219; p. 1229.
- Steam and water meters and recorders and indicating apparatus. E. P. Gabbott. No. 104,797; June 15; Gaz. vol. 215; p. 974.
- Steam-condensers. Cresson-Morris Company. No. 107,415; Nov. 23; Gaz. vol. 220; p. 1370.
- Steel. J. C. McGuire. No. 104,739; June 15; Gaz. vol. 215; p. 972.
- Steel bars. The Betz-Pierce Company. No. 104,901; June 22; Gaz. vol. 215; p. 1259.
- Steel bars. The Betz-Pierce Company. No. 106,131; Oct. 26; Gaz. vol. 219; p. 1232.
- Steel bars and forgings, High-speed. Columbia Tool Steel Company. No. 104,378; May 25; Gaz. vol. 214; p. 1316.
- Steel bars and shapes, Rolled. Lackawanna Steel Company. No. 104,981; June 29; Gaz. vol. 215; p. 1494.
- Steel bars, Hollow and solid. International High Speed Steel Company. No. 104,257; May 11; Gaz. vol. 214; p. 679.
- Steels, Butchers'. Firm of C. & A. Hoffman. No. 103,754; Apr. 13; Gaz. vol. 213; p. 742.
- Steel in blocks and bars, artisans' and cutting tools, &c. Poldihütte Tiegelschussstahlfabrik. No. 103,206; Mar. 23; Gaz. vol. 212; p. 1353.
- Steel sheets, Flat. The Trumbull Steel Company. No. 103,212; Mar. 23; Gaz. vol. 212; p. 1353.
- Steel, Special grade of. Columbia Tool Steel Company. No. 104,709; June 15; Gaz. vol. 215; p. 971.
- Steel, Tool. Fifth-Stirling Steel Company. No. 106,094; Oct. 12; Gaz. vol. 219; p. 581.
- Steels and high-speed steels. J. H. Williams & Co. No. 104,813; June 15; Gaz. vol. 215; p. 974.
- Steering mechanism centering and shock-absorbing device. Walker-Moore Manufacturing Co. No. 107,030; Nov. 9; Gaz. vol. 220; p. 672.
- Stencils. Baumgarten & Co. No. 104,760; June 15; Gaz. vol. 215; p. 973.
- Stereopticon apparatus. Charles Beseler Company. No. 101,902; Jan. 19; Gaz. vol. 210; p. 1059.
- Stiffening cords, blades, and tapes. Castlebone Company. No. 104,201; May 11; Gaz. vol. 214; p. 877.
- Stimulants for subnormal blood and tissue conditions. A. O. Klausner. No. 107,522; Dec. 7; Gaz. vol. 221; p. 346.
- Stockings. O'Callaghan & Fedden. No. 102,582; Feb. 16; Gaz. vol. 211; p. 952.
- Stogies. The Miller Cigar Co. No. 106,243; Oct. 19; Gaz. vol. 219; p. 918.
- Stogies. Pittsburgh Stogie and Cigar Company. No. 101,648; Jan. 5; Gaz. vol. 210; p. 394.
- Store-service equipment, Certain. Samuel Olson & Company. No. 102,148; Jan. 26; Gaz. vol. 210; p. 1391.
- Stove-burners and gas-stoves. J. E. Kennedy. No. 102,115; Jan. 26; Gaz. vol. 210; p. 1390.
- Stove-lining. Hartig & Miller. No. 105,690; Aug. 10; Gaz. vol. 217; p. 696.
- Stove-polish and straw-hat cleaner. United Drug Company. No. 102,932; Mar. 2; Gaz. vol. 212; p. 324.
- Stoves and heaters. American Stove Company. No. 106,541; Oct. 26; Gaz. vol. 219; p. 1227.
- Stoves and heaters. Standard Oil Co. of New York. No. 102,459; Feb. 9; Gaz. vol. 211; p. 637.
- Stoves and lamps, Electric. The Buckley-Newhall Company. Nos. 106,938-9; Nov. 9; Gaz. vol. 220; p. 669.
- Stoves and ranges, Coal-burning and gas-burning. Somerset Stove Foundry Co. No. 107,392; Nov. 23; Gaz. vol. 220; p. 1369.
- Stoves, Enameled gas heating-. L. Lipphardt. No. 103,294; Mar. 30; Gaz. vol. 212; p. 1683.
- Stoves, Gas, coal, wood, and oil. Chicago Dryer Company. No. 103,582; Apr. 6; Gaz. vol. 213; p. 356.
- Stoves, heaters, and boilers. Borden Stove Co. No. 102,365; Feb. 9; Gaz. vol. 211; p. 634.
- Stoves, ranges, and flues therefor. Engman-Matthews Range Co. No. 107,162; Nov. 16; Gaz. vol. 220; p. 1036.
- Stoves, ranges, heaters, irons, &c., Electric. The Michigan Stove Company. No. 106,170; Oct. 12; Gaz. vol. 219; p. 583.
- Stoves, Wood, coal, gas, and vapor. Shapleigh Hardware Company. No. 101,683; Jan. 5; Gaz. vol. 210; p. 395.
- Stovepipe-elbows. The Republic Metalware Co. No. 105,169; July 6; Gaz. vol. 216; p. 325.
- Straps, Jockey-. Ohio Truss Co. No. 107,189; Nov. 16; Gaz. vol. 220; p. 1036.
- Strawberry-plants. O. W. Blacknall. No. 101,907; Jan. 19; Gaz. vol. 210; p. 1059.
- Structural and decorative elements of construction, Certain named. Wheeling Corrugating Company. No. 105,884; Aug. 24; Gaz. vol. 217; p. 1336.
- Stucco, floorings, and linings. Composition-stone. The "Compostone" Co. No. 103,048; Mar. 16; Gaz. vol. 212; p. 1050.
- Sugar. Federal Sugar Refining Co. No. 103,382; Mar. 30; Gaz. vol. 212; p. 1686.
- Sugar. Revere Sugar Refinery. No. 102,174; Jan. 26; Gaz. vol. 210; p. 1392.
- Sugar, cane-syrup, cocoa, &c. Arbuckle Brothers. No. 102,995; Mar. 16; Gaz. vol. 212; p. 1049.
- Sugar, Confectioners'. The Franklin Sugar Refining Co. No. 107,706; Dec. 21; Gaz. vol. 221; p. 1036.
- Sugar, Hard. The National Sugar Refining Company of New Jersey. No. 102,434; Feb. 9; Gaz. vol. 211; p. 634.
- Sugar impurities, Catalytic agent for causing the precipitation of. Kieselguhr Company of America. No. 106,159; Oct. 12; Gaz. vol. 219; p. 583.
- Sugar, Milk-. Hollandsche Melksulkerfabriek. No. 105,483; July 27; Gaz. vol. 216; p. 1314.
- Suits and cloaks, Ladies'. Gimbel Brothers. No. 101,841; Jan. 12; Gaz. vol. 210; p. 712.
- Suits and coats, Misses' outer. I. & M. Phillips. No. 104,477; June 1; Gaz. vol. 215; p. 318.
- Suits and coats, Women's and misses' outer. M. Phillips. No. 105,746; Aug. 17; Gaz. vol. 217; p. 1050.
- Suits and overcoats, Boys'. A. H. Benoit. No. 102,029; Jan. 26; Gaz. vol. 210; p. 1387.
- Suits and overcoats, Men's, youths', boys', and children's cloth. M. Wile & Co. No. 107,032; Nov. 9; Gaz. vol. 220; p. 672.
- Suits and overcoats, Outer. Rogers Peet Company. No. 104,952; June 29; Gaz. vol. 215; p. 1494.
- Suits and overcoats, Outer. H. Sonneborn & Co. No. 102,766; Feb. 23; Gaz. vol. 211; p. 1258.
- Suits, Children's washable. W. Hecht. No. 105,848; Aug. 24; Gaz. vol. 217; p. 1335.
- Suits, Children's washable outer. W. Hecht. No. 102,097; Jan. 26; Gaz. vol. 210; p. 1389.
- Suits, cloaks, and dresses, Ladies'. Blogg & Littauer. No. 106,397; Oct. 19; Gaz. vol. 219; p. 923.
- Suits, cloaks, gowns, waists, &c., Outer. W. E. Bedell. No. 105,780; Aug. 17; Gaz. vol. 217; p. 1051.
- Suits, coats, and trousers, Men's and boys' outer. Manhattan Clothing Company. No. 102,533; Feb. 9; Gaz. vol. 211; p. 639.
- Suits, coats, skirts, shirts, &c. G. S. Bassett. No. 106,730; Oct. 26; Gaz. vol. 219; p. 1232.
- Suits, Ladies' knitted-fabric. J. Silberman & Bro. No. 105,327; July 20; Gaz. vol. 216; p. 1007.

- Suits, Linen and cotton white-duck. The Roehm-Richards Co. Nos. 103,763-4; Apr. 13; Gaz. vol. 213; p. 743.
- Suits, Men's and young men's. A. B. Kirschbaum Company. No. 107,809; Dec. 28; Gaz. vol. 221; p. 1447.
- Suits, Men's outer. Hart Schaffner & Marx. No. 102,905; Mar. 2; Gaz. vol. 212; p. 323.
- Suits, Men's outer. R. Isaacs & Co. No. 105,064; July 6; Gaz. vol. 216; p. 321.
- Suits, overcoats, pants, and knickerbockers, Boys' outer. Gillespie, Shields & Company. No. 102,089; Jan. 26; Gaz. vol. 210; p. 1389.
- Suits, shirts, and drawers, Combination ribbed knitted. P. H. Hanes Knitting Co. No. 105,203; July 13; Gaz. vol. 216; p. 658.
- Sulfur flowers. San Francisco Sulphur Co. No. 106,685; Oct. 26; Gaz. vol. 219; p. 1231.
- Sulfur preparation in soluble form. L. C. Wedgefuth. No. 103,926; Apr. 20; Gaz. vol. 213; p. 1113.
- Sunbonnets, sun-hats, dust-caps, &c. Winget Manufacturing Co. No. 106,818; Oct. 26; Gaz. vol. 219; p. 1235.
- Supercoolers. Fuchs-Kelly Company. No. 105,724; Aug. 17; Gaz. vol. 217; p. 1049.
- Suppositories. P. De Courcy. No. 105,687; Aug. 10; Gaz. vol. 217; p. 696.
- Surgical appliance for sores and falling arches. Corliss Limb Specialty Co. No. 103,379; Mar. 30; Gaz. vol. 212; p. 1686.
- Surgical goods and treatment-cabinets, Certain named. Wayne County Radium Ores Company. No. 102,664; Feb. 16; Gaz. vol. 211; p. 954.
- Surgical ligatures, sutures, threads, and tapes. Davis & Geck. No. 105,111; July 6; Gaz. vol. 216; p. 323.
- Surgical sutures and needles. C. De Witt Lukens Surgical Manufacturing Co. No. 107,270; Nov. 16; Gaz. vol. 220; p. 1039.
- Swage-shapers. E. C. Atkins & Company. No. 104,966; June 29; Gaz. vol. 215; p. 1494.
- Sweaters. Heilpern & Gross. No. 106,860; Nov. 2; Gaz. vol. 220; p. 344.
- Sweaters. Treinis Bros. No. 104,583; June 1; Gaz. vol. 215; p. 321.
- Sweaters. J. A. West. No. 105,628; Aug. 10; Gaz. vol. 217; p. 694.
- Sweaters, leggings, caps, &c. American Knitting Co. No. 105,332; July 20; Gaz. vol. 216; p. 1007.
- Sweaters, stockings, suits, hats, &c., Boys'. K. K. Grant. No. 103,655; Apr. 13; Gaz. vol. 213; p. 739.
- Sweeping compounds, Floor-. C. P. Burton. No. 104,045; Apr. 27; Gaz. vol. 213; p. 1442.
- Swimming-suits. J. Spicer Inc. No. 107,563; Dec. 7; Gaz. vol. 221; p. 348.
- Swings, particularly porch-swings. North Vernon Lumber Co. No. 105,446; July 27; Gaz. vol. 216; p. 1313.
- Switches and receptacles, door, &c., switches, Flush. Newton Manufacturing Company. No. 106,657; Oct. 26; Gaz. vol. 219; p. 1230.
- Syringes. American Hard Rubber Co. No. 106,825; Nov. 2; Gaz. vol. 220; p. 345.
- Syringes. The Eli Lilly and Company. No. 107,447; Nov. 30; Gaz. vol. 220; p. 1715.
- Syringes. W. L. McGuire. No. 102,335; Feb. 9; Gaz. vol. 211; p. 633.
- Syrup and non-alcoholic carbonated beverages, Soda-water. Imperial Birch Beer Co. No. 105,485; July 27; Gaz. vol. 216; p. 1314.
- Syrup for making carbonated non-alcoholic beverages. Alfalfa Foods and Medicine Company. No. 104,586; June 8; Gaz. vol. 215; p. 661.
- Syrup for soft drinks, Fruit. California Fruit Beverage Company. No. 107,440; Nov. 30; Gaz. vol. 220; p. 1715.
- Syrup, Table-. Best-Clymer Manufacturing Company. No. 105,645; Aug. 10; Gaz. vol. 217; p. 695.
- Syrups for soft drinks. F. E. Kelsey. No. 106,867; Nov. 2; Gaz. vol. 220; p. 344.
- Syrups, Soda-fountain. The Morey Mercantile Company. No. 107,579; Dec. 14; Gaz. vol. 221; p. 731.
- Table, Chiropractic adjustment-. M. Broberg. No. 107,569; Dec. 14; Gaz. vol. 221; p. 731.
- Table delicacy containing certain named ingredients. Best-Clymer Manufacturing Company. No. 105,510; Aug. 3; Gaz. vol. 217; p. 335.
- Table-linen, Damask. Young-Hartsell Mills Company. No. 107,303; Nov. 16; Gaz. vol. 220; p. 1040.
- Tables, bookcases, desks, &c. Thompson Manufacturing Company. No. 104,064; Apr. 27; Gaz. vol. 213; p. 1443.
- Tables, chairs, settees, stands, and cedar chests. The E. T. Burrows Company. No. 104,594; June 8; Gaz. vol. 215; p. 661.
- Tableware and ornamental chinaware, China. Onondaga Pottery Company. Nos. 104,744-5; June 15; Gaz. vol. 215; p. 972.
- Tableware and ornamental chinaware, China. Onondaga Pottery Company. No. 106,360; Oct. 19; Gaz. vol. 219; p. 922.
- Tablets and copy-books. M. Brown. No. 101,697; Jan. 5; Gaz. vol. 210; p. 395.
- Tablets and intestinal eliminants, Stomach-. T. A. Dugan. No. 102,271; Feb. 2; Gaz. vol. 211; p. 279.
- Tablets, correspondence-cards, &c., Writing-. Peyton Paper Company. No. 107,479; Dec. 7; Gaz. vol. 221; p. 345.
- Tablets, face-powder, &c., Blood and laxative. The New-Tone Company. No. 106,988; Nov. 9; Gaz. vol. 220; p. 671.
- Tablets for the preparation of baths, massage-creams, &c. J. Grünthal. No. 102,403; Feb. 9; Gaz. vol. 211; p. 635.
- Tablets for the treatment of certain named diseases. J. M. Moulton. Nos. 105,394-5; July 20; Gaz. vol. 216; p. 1009.
- Tablets, Herb. J. C. Crowe. No. 107,315; Nov. 23; Gaz. vol. 220; p. 1367.
- Tablets, Laxative. The Fellows Medical M'fg Co. No. 106,422; Oct. 19; Gaz. vol. 219; p. 924.
- Tablets, Laxative. Home Chemical Company. No. 102,411; Feb. 9; Gaz. vol. 211; p. 635.
- Tablets, Laxative. W. H. Schleizer. No. 104,844; June 22; Gaz. vol. 215; p. 1257.
- Tablets, medical preparations, &c., Foot-bath. The Bromo Remedy Co. No. 105,782; Aug. 17; Gaz. vol. 217; p. 1052.
- Tablets, Medicinal. The Drug Products Co. No. 106,847; Nov. 2; Gaz. vol. 220; p. 343.
- Tablets, wrapping and toilet paper, paper bags, Writing-. Morey Mercantile Company. No. 103,392; Mar. 30; Gaz. vol. 212; p. 1686.
- Tablets, Writing-. The Beneficial Dealing Co. No. 101,616; Jan. 5; Gaz. vol. 210; p. 393.
- Tacks, rivets, burs, &c. Atlas Tack Company. No. 106,729; Oct. 26; Gaz. vol. 219; p. 1232.
- Tags. The Denney Tag Company. No. 102,629; Feb. 16; Gaz. vol. 211; p. 953.
- Tags. The Denney Tag Company. No. 102,831; Feb. 23; Gaz. vol. 211; p. 1260.
- Tags and baggage-checks, Identification-. American Sales and Service Co. No. 103,405; Apr. 6; Gaz. vol. 213; p. 351.
- Talking-machine disks. Pathe Freres Phonograph Company. No. 102,338; Feb. 9; Gaz. vol. 211; p. 633.
- Talking-machine records. H. Waterson. No. 103,718; Apr. 13; Gaz. vol. 213; p. 741.
- Talking-machines. Arlon Manufacturing Company. No. 105,712; Aug. 17; Gaz. vol. 217; p. 1049.
- Talking-machines. Jesse French Plano and Organ Company. No. 105,723; Aug. 17; Gaz. vol. 217; p. 1049.
- Talking-machines. Taux-Wel Talking Machine Company. No. 106,189; Oct. 12; Gaz. vol. 219; p. 584.
- Talking-machines and accessories. "Plantor" Aktiengesellschaft für Platten-Sprechmaschinen. No. 107,716; Dec. 21; Gaz. vol. 221; p. 1036.
- Talking-machines, phonographs, gramophones, &c. Triton Phonograph Co. No. 102,465; Feb. 9; Gaz. vol. 211; p. 637.
- Tanks. Atlas Tank Manufacturing Co. No. 107,142; Nov. 16; Gaz. vol. 220; p. 1035.
- Tanks, Seamless. Janney-Steinmetz & Co. No. 106,446; Oct. 19; Gaz. vol. 219; p. 925.
- Tanks, Water-closet. Thomas Maddock's Sons Co. No. 106,167; Oct. 12; Gaz. vol. 219; p. 583.
- Tanning extracts. Haley-Hammond Company. No. 105,352; July 20; Gaz. vol. 216; p. 1008.
- Tanning extracts for leather. The Haley-Hammond Company. No. 105,357; July 20; Gaz. vol. 216; p. 1008.
- Tanning extracts made from barks and woods used for tanning leather. The Haley-Hammond Company. No. 105,392; July 20; Gaz. vol. 216; p. 1009.
- Tanning materials and extracts. Industrial Chemical Company. No. 104,730; June 15; Gaz. vol. 215; p. 972.
- Tape. National Tape Company. No. 103,565; Apr. 6; Gaz. vol. 213; p. 356.
- Tape, bias bindings, tapes, Bias-seam. The Bias Narrow Fabric Company. Nos. 101,903-5; Jan. 19; Gaz. vol. 210; p. 1059.
- Tape, Elastic. Amazon Knitting Company. No. 102,483; Feb. 9; Gaz. vol. 211; p. 637.
- Tapestries, damasks, corduroys, cretonnes, and plushes. George S. Harrington Company. No. 101,943; Jan. 19; Gaz. vol. 210; p. 1060.
- Tapioca. The Hills Bros. Co. No. 104,326; May 18; Gaz. vol. 214; p. 1022.
- Tea. The Bour Company. No. 102,508; Feb. 9; Gaz. vol. 211; p. 638.
- Tea. Consumers' Importing Company. No. 103,609; Apr. 6; Gaz. vol. 213; p. 357.
- Tea. L. M. Kommel. No. 104,095; Apr. 27; Gaz. vol. 213; p. 1444.
- Tea. Francis H. Leggett & Co. No. 104,070; Apr. 27; Gaz. vol. 213; p. 1443.
- Tea. The Lowry Coffee Co. No. 103,905; Apr. 20; Gaz. vol. 213; p. 1112.
- Tea. J. Musher & Co. No. 103,592; Apr. 6; Gaz. vol. 213; p. 357.
- Tea. A. Nelson. No. 101,967; Jan. 19; Gaz. vol. 210; p. 1061.
- Tea. New Orleans Import Co. No. 105,801; Aug. 17; Gaz. vol. 217; p. 1051.
- Tea. Peek Bros. & Winch (America). No. 103,624; Apr. 6; Gaz. vol. 213; p. 358.
- Tea. Renfro Bros. Co. No. 105,944; Aug. 31; Gaz. vol. 217; p. 1657.

Alphabetical list of trade-marks—Continued.

- Tea. S. S. Pierce Co. No. 107,004; Nov. 9; Gaz. vol. 220; p. 671.
- Tea. S. S. Pierce Co. No. 107,275; Nov. 16; Gaz. vol. 220; p. 1039.
- Tea. William Schotten Coffee Company. No. 104,784; June 15; Gaz. vol. 215; p. 973.
- Tea. Tilzer Brothers. No. 105,028; June 29; Gaz. vol. 215; p. 1496.
- Tea. The Woolson Spice Company. No. 104,683; June 8; Gaz. vol. 215; p. 664.
- Tea. Woolson Spice Company. No. 104,823; June 15; Gaz. vol. 215; p. 975.
- Tea. S. Zechnowitz. No. 103,987; Apr. 20; Gaz. vol. 213; p. 1115.
- Tea and coffee. The Milnes Supply Company. No. 103,619; Apr. 6; Gaz. vol. 213; p. 357.
- Tea and roasted coffee. John Blaul's Sons Co. No. 106,733; Oct. 26; Gaz. vol. 219; p. 1232.
- Tea-balls. G. H. Peal. No. 102,163; Jan. 26; Gaz. vol. 210; p. 1391.
- Tea, Brazilian and Paraguay. E. L. Woodley. No. 106,024; Sept. 14; Gaz. vol. 218; p. 600.
- Tea, coffee, and cocoa. S. Zechnowitz. No. 103,936; Apr. 20; Gaz. vol. 213; p. 1115.
- Tea, coffee, canned vegetables and fruits, rice, &c. Lippincott & Co. No. 105,984; Sept. 7; Gaz. vol. 218; p. 317.
- Tea, coffee, chocolate, cocoa, and bouillon. American Thermos Bottle Company. No. 104,371; May 25; Gaz. vol. 214; p. 1315.
- Tea, coffee, spices, cocoa, &c. Lippincott & Co. No. 103,434; Apr. 6; Gaz. vol. 213; p. 352.
- Tea, Japan. F. D. Farmer Co. No. 103,309; Mar. 30; Gaz. vol. 212; p. 1684.
- Tea, mustard, roasted coffee, &c. D. Feltenstein. No. 107,490; Dec. 7; Gaz. vol. 221; p. 345.
- Tea, pepper, ginger, cinnamon, &c. Berry-Hall Company. No. 104,858; June 22; Gaz. vol. 215; p. 1258.
- Tea, table-syrup, and vinegar. T. Martindale & Co. No. 101,962; Jan. 19; Gaz. vol. 210; p. 1061.
- Teas. Golden Seal Tea Co. No. 106,596; Oct. 26; Gaz. vol. 219; p. 1228.
- Teas, coffees, cocoa, and salad-oil. Bloomingdale Bros. No. 106,398; Oct. 19; Gaz. vol. 219; p. 923.
- Teas, coffees, mustard, salad-dressing, and flavoring extracts. Vinnedge Coffee Co. No. 107,589; Dec. 14; Gaz. vol. 221; p. 731.
- Teeth, Artificial. The Dentists' Supply Company. No. 103,022; Mar. 16; Gaz. vol. 212; p. 1050.
- Telephone parts, &c. Internationale Galalith-Gesellschaft Hoff & Co. No. 106,234; Oct. 19; Gaz. vol. 219; p. 918.
- Telephones, Electric office-. Red Square Co. No. 105,672; Aug. 10; Gaz. vol. 217; p. 696.
- Temperature-indicators. The J. E. Robinson Mfg. Co. No. 105,397; July 20; Gaz. vol. 216; p. 1009.
- Tennis-rackets. B. Altman & Co. No. 105,634; Aug. 10; Gaz. vol. 217; p. 694.
- Textile-fabric sizing and softeners. Koppe Chemical & Oil Company. No. 105,464; July 27; Gaz. vol. 216; p. 1314.
- Textile machinery, Certain named. Curtis & Marble Machine Company. No. 106,299; Oct. 19; Gaz. vol. 219; p. 920.
- Therapeutic machines, Certain named. The American "Radio-Thor-X" Company. No. 102,014; Jan. 26; Gaz. vol. 210; p. 1387.
- Thermometers. Taylor Instrument Companies. No. 101,804; Jan. 12; Gaz. vol. 210; p. 711.
- Thread. J. C. Mayer. Nos. 103,029-30; Mar. 16; Gaz. vol. 212; p. 1050.
- Thread. The Spool Cotton Company. No. 102,589; Feb. 16; Gaz. vol. 211; p. 952.
- Thread and yarn. Henry Myer Thread Manufacturing Co. No. 103,068; Mar. 16; Gaz. vol. 212; p. 1051.
- Thread and yarn. H. E. Verran Company. No. 104,918; June 22; Gaz. vol. 215; p. 1259.
- Threads and twists. Dollfus-Mieg & Cie. Société anonyme. No. 102,267; Feb. 2; Gaz. vol. 211; p. 279.
- Threads and yarns. Dollfus-Mieg & Cie. Société anonyme. No. 102,264; Feb. 2; Gaz. vol. 211; p. 279.
- Threads and yarns. Lees Mfg. Co. No. 103,105; Mar. 16; Gaz. vol. 212; p. 1052.
- Threads, Cotton and linen. J. Thiriez Pere et Fils. No. 102,298; Feb. 2; Gaz. vol. 211; p. 280.
- Threads, Cotton, silk, and linen. Hammond, Knowlton & Co. Nos. 106,857-9; Nov. 2; Gaz. vol. 220; p. 344.
- Threads, Sewing-. The Singer Manufacturing Company. No. 106,688; Oct. 26; Gaz. vol. 219; p. 1231.
- Throat-pastils. Diamond Remedy Co. No. 103,892; Apr. 20; Gaz. vol. 213; p. 1112.
- Tile, Gypsum. United States Gypsum Company. No. 101,890; Jan. 12; Gaz. vol. 210; p. 714.
- Tile, Hollow building-. Pennsylvania Fire Proofing Company. Nos. 105,742-4; Aug. 17; Gaz. vol. 217; p. 1050.
- Tile, Natural-stone. B. Ridgway & Son. No. 102,176; Jan. 26; Gaz. vol. 210; p. 1392.
- Tire carriers or supports. The Rimolox Tire Carrier Company. No. 102,540; Feb. 9; Gaz. vol. 211; p. 639.
- Tire casings and inner tubes. The M & M Company. No. 105,117; July 6; Gaz. vol. 216; p. 323.
- Tire casings and tubes, Automobile. The National Tire & Rubber Company. No. 103,296; Mar. 30; Gaz. vol. 212; p. 1683.
- Tire casings and tubes, Automobile. The National Tire and Rubber Company. No. 103,671; Apr. 13; Gaz. vol. 213; p. 740.
- Tire-chains, &c., Tools for opening and closing attaching-hooks of non-skid. J. N. Macdonald. No. 104,818; June 15; Gaz. vol. 215; p. 974.
- Tire-cleats, Removable. A. J. Slade. No. 102,546; Feb. 9; Gaz. vol. 211; p. 639.
- Tire-filler. C. C. Emery. No. 103,156; Mar. 16; Gaz. vol. 212; p. 1054.
- Tire fillers and patches for cementing. Service Motor Supply Company. No. 106,125; Oct. 12; Gaz. vol. 219; p. 582.
- Tire-fillings. Vacumit-Gesellschaft m. b. H. No. 102,700; Feb. 23; Gaz. vol. 211; p. 1256.
- Tire fluid. Buffalo Specialty Company. No. 102,784; Feb. 23; Gaz. vol. 211; p. 1258.
- Tire inner tube. The Republic Rubber Company. No. 104,482; June 1; Gaz. vol. 215; p. 318.
- Tire-puncture-sealing preparation. Tire Seal Co. No. 104,656; June 8; Gaz. vol. 215; p. 663.
- Tire-repairing fluid, rim-cement, and rubber cements. K. S. Shickluna. No. 101,984; Jan. 19; Gaz. vol. 210; p. 1061.
- Tire-stock and rubber sponges, Rubber. Continental Rubber Works. No. 105,106; July 6; Gaz. vol. 216; p. 323.
- Tire straps or protectors. J. J. Bukolt. No. 104,826; June 22; Gaz. vol. 215; p. 1257.
- Tires and casings, Rubber. H. Starnes. No. 104,184; May 4; Gaz. vol. 214; p. 341.
- Tires and parts thereof, Automobile-. Airplex Inner Tire Company. No. 102,644; Feb. 16; Gaz. vol. 211; p. 953.
- Tires and parts thereof, tire-casings, and supplies, Pneumatic. Lyon Tire and Rubber Co. No. 104,222; May 11; Gaz. vol. 214; p. 678.
- Tires and tire-casings, Inner tubes for. The Falls Rubber Co. No. 101,929; Jan. 19; Gaz. vol. 210; p. 1060.
- Tires and tubes, Rubber. The National Tire Company. No. 106,079; Oct. 5; Gaz. vol. 219; p. 267.
- Tires, Automobile rubber. Double Tread Tire Company. No. 104,533; June 1; Gaz. vol. 215; p. 320.
- Tires, casings, and inner tubes, Pneumatic vehicle-. Carlsten-Williams Company. No. 107,413; Nov. 23; Gaz. vol. 220; p. 1370.
- Tires, casings, and tubes, Rubber. The Marathon Tire & Rubber Co. No. 102,292; Feb. 2; Gaz. vol. 211; p. 280.
- Tires, casings, blow-out patches, &c. H. Starnes. No. 103,975; Apr. 20; Gaz. vol. 213; p. 1115.
- Tires, Compound for curing punctures in. A. S. Carmichael. No. 102,042; Jan. 26; Gaz. vol. 210; p. 1388.
- Tires, Compound for curing punctures in. Interstate Puncture Proof Company. No. 104,147; May 4; Gaz. vol. 214; p. 340.
- Tires, Elastic vehicle-. The Republic Rubber Company. No. 106,503; Oct. 19; Gaz. vol. 219; p. 926.
- Tires for vehicles, Metallic. The Savage Tire Company. No. 101,877; Jan. 12; Gaz. vol. 210; p. 713.
- Tires, Inner or air tubes for vehicle-. The Savage Tire Co. No. 103,074; Mar. 16; Gaz. vol. 212; p. 1051.
- Tires, inner tubes, and tubing, Rubber automobile-. Tyer Rubber Co. No. 102,621; Feb. 16; Gaz. vol. 211; p. 953.
- Tires, Inner tubes for casings and pneumatic. Gibson Automobile Company. No. 103,875; Apr. 20; Gaz. vol. 213; p. 1112.
- Tires, Inner tubes for pneumatic. Bittel-Leftwich Tire Service Co. No. 104,859; June 22; Gaz. vol. 215; p. 1258.
- Tires, Liquid for use in pneumatic. J. G. Poe. No. 107,634; Dec. 14; Gaz. vol. 221; p. 733.
- Tires, Material for repairing pneumatic. J. Ball. No. 105,509; Aug. 3; Gaz. vol. 217; p. 335.
- Tires of rubber and leather, inner tubes, and piston-rings, Automobile-. Mecca Manufacturing & Specialty Co. No. 107,431; Nov. 23; Gaz. vol. 220; p. 1370.
- Tires or casings and inner tubes, Rubber pneumatic. Automobile Tire Co. No. 105,928; Aug. 31; Gaz. vol. 217; p. 1657.
- Tires, outer shoes and inner tubes for same, Pneumatic. The East Palestine Rubber Company. No. 103,945; Apr. 20; Gaz. vol. 213; p. 1114.
- Tires, Preparation for preventing the puncture of automobile-. Woodbridge Chemical Co. No. 104,822; June 15; Gaz. vol. 215; p. 975.
- Tires, Rubber. Delton Tire & Rubber Company. No. 107,251; Nov. 16; Gaz. vol. 220; p. 1038.
- Tires, Rubber. Lee Tire & Rubber Co. No. 101,856; Jan. 12; Gaz. vol. 210; p. 713.
- Tires, Rubber. The McGraw Tire & Rubber Company. No. 102,865; Feb. 23; Gaz. vol. 211; p. 1261.
- Tires, Rubber. F. T. Murray. No. 105,219; July 13; p. 659.
- Tires, Rubber and pneumatic. C. A. Daniel. No. 102,378; Feb. 9; Gaz. vol. 211; p. 634.
- Tires, Rubber and pneumatic. C. A. Daniel. No. 104,935; June 29; Gaz. vol. 215; p. 1493.
- Tires, Rubber and rubber and canvas. Needham Tire Company. No. 107,692; Dec. 21; Gaz. vol. 221; p. 1035.
- Tires, Rubber automobile-. Mishawaka Woolen Manufacturing Company. Nos. 103,908-9; Apr. 20; Gaz. vol. 213; p. 1113.
- Tires, Rubber, leather, and fabric. Germantown Almegum Manufacturing Co. No. 105,842; Aug. 24; Gaz. vol. 217; p. 1335.

- Tires, Rubber vehicle-. Akron Tire Co. No. 106,085; Oct. 12; Gaz. vol. 219; p. 581.
- Tires, Rubber vehicle-. The Fisk Rubber Company. No. 103,263; Mar. 23; Gaz. vol. 212; p. 1355.
- Tires, Rubber vehicle-. The Portage Rubber Co. No. 105,964; Aug. 31; Gaz. vol. 217; p. 1658.
- Tires, Semiliquid seal for punctures in pneumatic. C-V-Sealer Co. No. 103,153; Mar. 16; Gaz. vol. 212; p. 1053.
- Tires, Snap-on treads for vehicle-. Rutherford Rubber Company. No. 103,878; Apr. 20; Gaz. vol. 213; p. 1112.
- Tires, Solid or cushion rubber vehicle-. The B. F. Goodrich Company. No. 105,264; July 13; Gaz. vol. 216; p. 658.
- Tires, tire casings and tubes, Pneumatic. Carlsten-Williams Company. No. 107,313; Nov. 23; Gaz. vol. 220; p. 1367.
- Tires, &c., Vulcanized pneumatic and cushion. Hood Rubber Company. No. 105,413; July 20; Gaz. vol. 216; p. 1010.
- Tissue napkins and paper towels. Japanese Tissue Mills. No. 107,724; Dec. 21; Gaz. vol. 221; p. 1036.
- Tobacco and cigarettes, Smoking-. Falk Tobacco Co. No. 105,980; Sept. 7; Gaz. vol. 218; p. 317.
- Tobacco and cigarettes, Smoking-. Falk Tobacco Co. No. 107,443; Nov. 30; Gaz. vol. 220; p. 1715.
- Tobacco and snuff, Leaf-. American Tropical Trading Company. No. 102,994; Mar. 16; Gaz. vol. 212; p. 1049.
- Tobacco, cigars, and cigarettes, Smoking-. O. F. Wood. No. 103,985; Apr. 20; Gaz. vol. 213; p. 1115.
- Tobacco-habit cure. J. M. Wade. No. 101,810; Jan. 12; Gaz. vol. 210; p. 711.
- Tobacco, Leaf-. W. P. Kapp. Nos. 101,743-4; Jan. 12; Gaz. vol. 210; p. 709.
- Tobacco, Plug and twist. R. J. Reynolds Tobacco Company. No. 101,680; Jan. 5; Gaz. vol. 210; p. 395.
- Tobacco, Smoking-. E. J. Kelly. No. 107,229; Nov. 16; Gaz. vol. 220; p. 1038.
- Tobacco, Smoking-. A. A. Kohary. No. 102,715; Feb. 23; Gaz. vol. 211; p. 1256.
- Tobacco, Smoking-. S. S. Pierce Co. No. 107,277; Nov. 16; Gaz. vol. 220; p. 1039.
- Tobacco, Smoking-. The Zorro Tobacco Co. No. 107,304; Nov. 16; Gaz. vol. 220; p. 1040.
- Tobacco, Smoking and chewing. W. W. Ford Tobacco Works. No. 103,160; Mar. 16; Gaz. vol. 212; p. 1054.
- Tobacco, Snuff-. J. J. Juskowski. No. 105,212; July 13; Gaz. vol. 216; p. 658.
- Tobacco, Twist-. Barlow-Moore Tobacco Co. No. 105,805; Aug. 17; Gaz. vol. 217; p. 1051.
- Tobaccos. Maclin-Zimmer-McGill Tobacco Co. No. 103,295; Mar. 30; Gaz. vol. 212; p. 1683.
- Tobaccos. Maclin-Zimmer-McGill Tobacco Co. No. 103,729; Apr. 13; Gaz. vol. 213; p. 742.
- Tobaccos, Plug, twist, cut-plug, smoking, and leaf. Maclin-Zimmer-McGill Tobacco Co. No. 104,544; June 1; Gaz. vol. 215; p. 320.
- Tobaccos, Plug, twist, cut-plug, smoking, and leaf. Maclin-Zimmer-McGill Tobacco Co. No. 106,075; Oct. 5; Gaz. vol. 219; p. 267.
- Toilet and pharmaceutical preparations, Certain named. Harriet Hubbard Ayer. No. 107,042; Nov. 9; Gaz. vol. 220; p. 672.
- Toilet and pharmaceutical preparations, Certain named. Richard Hudnut. Nos. 106,231-2; Oct. 19; Gaz. vol. 219; p. 918.
- Toilet articles, Handles for. F. R. Arnold. No. 106,928; Nov. 9; Gaz. vol. 220; p. 669.
- Toilet preparation. Cupid Blush Company. No. 106,746; Oct. 26; Gaz. vol. 219; p. 1233.
- Toilet preparation for use as a deodorant. H. Tetlow Co. No. 105,381; July 20; Gaz. vol. 216; p. 1009.
- Toilet preparations and court-plaster, Certain. J. & E. Atkinson. No. 102,956; Mar. 9; Gaz. vol. 212; p. 685.
- Toilet preparations, Certain named. Holman Soap Co. No. 106,330; Oct. 19; Gaz. vol. 219; p. 921.
- Toilet preparations, Certain named. The Importers Company. Nos. 106,444-5; Oct. 19; Gaz. vol. 219; p. 924.
- Toilet preparations, Certain named. J. Kalish. No. 106,977; Nov. 9; Gaz. vol. 220; p. 670.
- Toilet preparations, Certain named. L. McEwen. No. 102,293; Feb. 2; Gaz. vol. 211; p. 280.
- Toilet preparations, Certain named. Rellinger Bros. & Co. No. 102,947; Mar. 2; Gaz. vol. 212; p. 324.
- Toilet preparations for hair and scalp. A. Froidevaux. No. 107,255; Nov. 16; Gaz. vol. 220; p. 1038.
- Toilet preparations for the complexion. H. R. Davis. No. 106,301; Oct. 19; Gaz. vol. 219; p. 920.
- Toilet use, Pharmaceutical preparation for. Richard Hudnut. No. 105,484; July 27; Gaz. vol. 216; p. 1314.
- Toilet waters and powders, colognes, perfumes. Riker & Hegeman Co. No. 107,202; Nov. 16; Gaz. vol. 220; p. 1037.
- Tomato paste and peeled tomatoes. Società Torrese per Conserve Alimentari Liguori, Mazza & Ci. No. 104,008; Apr. 27; Gaz. vol. 213; p. 1441.
- Tomato sauce. H. G. Prince & Company. No. 102,814; Feb. 23; Gaz. vol. 211; p. 1259.
- Tomatoes. Società Umbro-Emiliana. No. 102,196; Jan. 26; Gaz. vol. 210; p. 1392.
- Tonic and digestive powder, Medicinal. A. Virdone. No. 106,190; Oct. 12; Gaz. vol. 219; p. 584.
- Tonic and hair-dye, Medicinal. M. Palomo. No. 106,998; Nov. 9; Gaz. vol. 220; p. 671.
- Tonic bitters. F. Bisleri. No. 104,968; June 29; Gaz. vol. 215; p. 1494.
- Tonic, Blood-depurating. A. Sclavo. No. 101,798; Jan. 12; Gaz. vol. 210; p. 711.
- Tonic for live stock, Digestive or food. T. H. Adams. No. 102,953; Mar. 9; Gaz. vol. 212; p. 685.
- Tonic for nervous disorders and general debility. Celro-Kola Company. No. 103,807; Apr. 13; Gaz. vol. 213; p. 744.
- Tonic, Medical. The Cooper Medicine Co. No. 104,379; May 25; Gaz. vol. 214; p. 1316.
- Tonic, Nerve-. W. C. Doan. No. 103,341; Mar. 30; Gaz. vol. 212; p. 1685.
- Tonic, Nerve-. Omin Co. No. 107,434; Nov. 23; Gaz. vol. 220; p. 1371.
- Tonic or stimulant. Tona Vita Medicine Co. No. 102,911; Mar. 2; Gaz. vol. 212; p. 323.
- Tonic reconstituent digestive antimalaric. A. De Tullio. No. 104,906; June 22; Gaz. vol. 215; p. 1259.
- Tonic, Stock-. Styers Mercantile Co. No. 102,726; Feb. 23; Gaz. vol. 211; p. 1257.
- Tonic, Tubercular-. J. F. Daley. No. 106,300; Oct. 19; Gaz. vol. 219; p. 920.
- Tonics and antibilious pills, Chill and liver. Crystal Pharmacy. No. 104,360; May 25; Gaz. vol. 214; p. 1315.
- Tonics and flesh-builders, Medicinal. Aktieselskabet Carls Nutranol-Fabrik. No. 101,667; Jan. 5; Gaz. vol. 210; p. 394.
- Tonics, Animal-. Hog-Joy System. Nos. 105,895-6; Aug. 24; Gaz. vol. 217; p. 1336-7.
- Tonics, blood-purifiers, and remedies. The Paramount Drug Co. No. 105,553; Aug. 3; Gaz. vol. 217; p. 336.
- Tonics, liver medicines, &c., Chill-. M. M. Taylor. No. 107,218; Nov. 16; Gaz. vol. 220; p. 1037.
- Tonics, Medicinal. The Norwich Pharmacal Company. No. 105,321; July 20; Gaz. vol. 216; p. 1007.
- Tonics, Medicinal. A. F. Richardson. No. 104,311; May 18; Gaz. vol. 214; p. 1022.
- Tonics, Medicinal. E. Scheller & Co. No. 106,802; Oct. 26; Gaz. vol. 219; p. 1235.
- Tonics, Nerve-. E. Cera. No. 105,455; July 27; Gaz. vol. 216; p. 1313.
- Tonics, Nutritive. Riker & Hegeman Co. No. 102,983; Mar. 9; Gaz. vol. 212; p. 685.
- Tonics, salves, and sanitary wash for abrasions, douches, &c., Medicinal. Eldersen Medicine Co. No. 107,320; Nov. 23; Gaz. vol. 220; p. 1367.
- Tonics, Stomach-. J. Judt. No. 105,541; Aug. 3; Gaz. vol. 217; p. 336.
- Tool, Combination-. Bonney Vise & Tool Works. No. 105,480; July 27; Gaz. vol. 216; p. 1314.
- Tools and machines, Certain named. H. C. Smith. No. 102,313; Feb. 2; Gaz. vol. 211; p. 281.
- Tools, cutlery, and parts thereof, Certain named. Napanoch Knife Company. No. 102,146; Jan. 26; Gaz. vol. 210; p. 1391.
- Tools, machine-tools for clock-makers and fine or precision mechanics. Fabrique de Machines "Mikron" S. A. No. 102,397; Feb. 9; Gaz. vol. 211; p. 635.
- Tooth-cleansers. Holland Specialty Company. No. 107,519; Dec. 7; Gaz. vol. 221; p. 346.
- Tooth cleansing and preserving preparation. F. L. Moss. No. 106,247; Oct. 19; Gaz. vol. 219; p. 918.
- Tooth-paste. Bristol-Myers Company. No. 105,039; July 6; Gaz. vol. 216; p. 321.
- Tooth-paste. Emecol Chemical Co. No. 107,470; Dec. 7; Gaz. vol. 221; p. 345.
- Tooth-paste. C. S. Van Orden. No. 106,270; Oct. 19; Gaz. vol. 219; p. 919.
- Tooth paste and powder and mouth-wash. H. A. Kramer. No. 107,668; Dec. 14; Gaz. vol. 221; p. 734.
- Tooth-paste, talcum powder, and toilet water. R. S. Allan. No. 103,686; Apr. 13; Gaz. vol. 213; p. 740.
- Tooth-paste, tooth, face, and talcum powders, &c. Hydrox Chemical Company. No. 106,771; Oct. 26; Gaz. vol. 219; p. 1234.
- Toothache-drops, cold-cream, tooth-paste, &c. American Drug & Press Association. No. 104,924; June 29; Gaz. vol. 215; p. 1493.
- Toothpicks. Cartwright & Reay. No. 107,152; Nov. 16; Gaz. vol. 220; p. 1035.
- Toothpicks, Wooden. International Mfg. Co. No. 103,388; Mar. 30; Gaz. vol. 212; p. 1686.
- Towels, Bath-. E. A. Guinzburg. No. 107,418; Nov. 23; Gaz. vol. 220; p. 1370.
- Towels, bureau-scarfs, table runners and cloths, &c. D. B. Hill. No. 105,658; Aug. 10; Gaz. vol. 217; p. 695.
- Towels, face-cloths, and textile mats. Star Embroidery Co. No. 107,648; Dec. 14; Gaz. vol. 221; p. 733.
- Towels, terry-cloths, and pile fabrics, &c. Turkish. W. H. & A. E. Margerison & Co. No. 103,027; Mar. 16; Gaz. vol. 212; p. 1050.
- Towels, textile bath sheets and mats. Chautauqua Towel Mills. No. 102,044; Jan. 26; Gaz. vol. 210; p. 1388.
- Towels, washrags, face-cloths, &c. H. L. Hohlfield. No. 102,713; Feb. 23; Gaz. vol. 211; p. 1256.

Alphabetical list of trade-marks—Continued.

- Toweling, bath-mats, wash mats and cloths. Ward, Meehan Company. No. 104,405; May 25; Gaz. vol. 214; p. 1317.
- Toy balls, Elastic inflatable. S. W. Anderson. No. 102,487; Feb. 9; Gaz. vol. 211; p. 638.
- Toy banks. E. J. Shively. No. 103,011; Mar. 16; Gaz. vol. 212; p. 1049.
- Toy building-blocks. W. B. Thurman. No. 105,383; July 20; Gaz. vol. 216; p. 1009.
- Toy building constituents. Acorn Mfg. Co. No. 101,613; Jan. 5; Gaz. vol. 210; p. 393.
- Toy, Emblematic. J. E. Ezell. No. 104,051; Apr. 27; Gaz. vol. 213; p. 1443.
- Toy figure. C. A. Son. No. 107,454; Nov. 30; Gaz. vol. 220; p. 1715.
- Toy game. E. O. Clark Co. No. 103,377; Mar. 30; Gaz. vol. 212; p. 1686.
- Toy pennants. Cruver Manufacturing Company. No. 106,413; Oct. 19; Gaz. vol. 219; p. 924.
- Toy vehicle. R. P. Pay. No. 103,396; Mar. 30; Gaz. vol. 212; p. 1686.
- Toy vehicles. The Cincinnati Pump Company. No. 103,556; Apr. 6; Gaz. vol. 213; p. 355.
- Toys. John C. Dettra & Co. No. 101,775; Jan. 12; Gaz. vol. 210; p. 710.
- Toys. The Mysto Mfg. Co. No. 104,352; May 25; Gaz. vol. 214; p. 1315.
- Toys and parts thereof, Steam, electric, and mechanical. Weeden Manufacturing Co. No. 104,960; June 29; Gaz. vol. 215; p. 1494.
- Toys, Certain named. Geo. Borgfeldt & Co. No. 104,200; May 11; Gaz. vol. 214; p. 677.
- Toys, Certain named. Japan Import and Export Commission Co. No. 107,178; Nov. 16; Gaz. vol. 220; p. 1036.
- Toys, Mechanical. American Flyer Manufacturing Company. No. 107,138; Nov. 16; Gaz. vol. 220; p. 1035.
- Toys, Plain and mechanical. Marshall Field & Company. No. 106,589; Oct. 26; Gaz. vol. 219; p. 1228.
- Toys, Sectional wooden. The A. Schoenhut Company. No. 105,171; July 6; Gaz. vol. 216; p. 325.
- Tracing-cloth. B. K. Elliott Company. No. 103,343; Mar. 30; Gaz. vol. 212; p. 1685.
- Tracing-cloth. The Winterbottom Book Cloth Company. No. 104,081; Apr. 27; Gaz. vol. 213; p. 1443.
- Tracing-cloth. The Winterbottom Book Cloth Company. No. 106,535; Oct. 19; Gaz. vol. 219; p. 927.
- Tractors. The Joliet Oil Tractor Co. No. 106,615; Oct. 26; Gaz. vol. 219; p. 1229.
- Transoms, doors, windows, and panels. The Ventilouvre Co. No. 104,079; Apr. 27; Gaz. vol. 213; p. 1443.
- Transporting-container. Hammock Egg Carrier Company. No. 102,278; Feb. 2; Gaz. vol. 211; p. 280.
- Traps, Animal. Oneida Community. No. 101,646; Jan. 5; Gaz. vol. 210; p. 394.
- Traps, Animal. Oneida Community. No. 107,090; Nov. 9; Gaz. vol. 220; p. 674.
- Traps, Animal. Oshkosh Trap & Novelty Co. No. 104,474; June 1; Gaz. vol. 215; p. 318.
- Traps, Animal. E. Remington. No. 103,762; Apr. 13; Gaz. vol. 213; p. 743.
- Traps, Rodent. J. M. Wolfe. No. 103,273; Mar. 23; Gaz. vol. 212; p. 1355.
- Trays, basins, pans, plates, &c., Fiber. Hoosier Box & Plate Co. No. 105,729; Aug. 17; Gaz. vol. 217; p. 1049.
- Treating rheumatism, neuralgia, dropsy, &c. The Antipainola Company. No. 107,464; Nov. 30; Gaz. vol. 220; p. 1716.
- Treatment for dandruff. Gramatan Co. No. 107,844; Dec. 28; Gaz. vol. 221; p. 1448.
- Treatment for dyspepsia, kidney and liver complaints. J. A. Heintzelman. No. 106,155; Oct. 12; Gaz. vol. 219; p. 583.
- Treatment for gonorrhea, Injection. C. Weeks. No. 107,222; Nov. 16; Gaz. vol. 220; p. 1037.
- Treatment of anemia. Fabrikken Ferrin ved E. Andersen, J. A. Løwengreen, Th. Løwengreen. No. 107,664; Dec. 14; Gaz. vol. 221; p. 733.
- Treatment of anemia, Intravenous. The Intravenous Products Company. No. 104,834; June 22; Gaz. vol. 215; p. 1257.
- Treatment of malaria, Intravenous. The Intravenous Products Company. Nos. 104,616-17; June 8; Gaz. vol. 215; p. 662.
- Treatment of syphilis, pellagra, and malaria, Intravenous. The Intravenous Products Company. No. 104,615; June 8; Gaz. vol. 215; p. 662.
- Trees, Compound for destroying scale on. D. S. Latta. No. 102,943; Mar. 2; Gaz. vol. 212; p. 324.
- Trenching machinery. The Buckeye Traction Ditcher Company. No. 103,644; Apr. 13; Gaz. vol. 213; p. 739.
- Trousers, Corduroy. The W. B. Manufacturing Co. No. 101,686; Jan. 5; Gaz. vol. 210; p. 395.
- Trousers, Men's. J. S. Wojtalowicz. No. 106,720; Oct. 26; Gaz. vol. 219; p. 1232.
- Trousers-waistbands. I. Heller. No. 104,219; May 11; Gaz. vol. 214; p. 677.
- Truck bolster, Railway-car. Pressed Steel Car Company. No. 106,257; Oct. 19; Gaz. vol. 219; p. 919.
- Trucks, Automobile and motor. The Touraine Co. No. 102,464; Feb. 9; Gaz. vol. 211; p. 637.
- Trucks, Metal. The Market Forge Company. No. 104,622; June 8; Gaz. vol. 215; p. 662.
- Trucks, Motor. The Gramm Motor Truck Co. No. 101,940; Jan. 19; Gaz. vol. 210; p. 1060.
- Trucks, Motor. The Thomas B. Jeffery Company. No. 102,520; Feb. 9; Gaz. vol. 211; p. 638.
- Trucks, Motor-driven. Four Wheel Drive Auto Co. No. 107,444; Nov. 30; Gaz. vol. 220; p. 1715.
- Trunks. The Belber Trunk & Bag Company. No. 101,826; Jan. 12; Gaz. vol. 210; p. 712.
- Trunks. Mendel-Drucker Company. No. 105,500; July 27; Gaz. vol. 216; p. 1315.
- Trunks and suitcases. The Hartmann Trunk Company. No. 103,951; Apr. 20; Gaz. vol. 213; p. 1114.
- Trunks, bags, and suitcases. Rogers Brothers & Kevan. No. 107,717; Dec. 21; Gaz. vol. 221; p. 1036.
- Trunks, Wardrobe. L. Goldsmith & Son. No. 104,018; Apr. 27; Gaz. vol. 213; p. 1442.
- Trusses, Rupture. C. D. Speagh. No. 103,796; Apr. 13; Gaz. vol. 213; p. 744.
- Tube-spreading and brick-holding tools. J. Keers. No. 104,980; June 29; Gaz. vol. 215; p. 1494.
- Tubes, Inner. Braender Rubber & Tire Co. No. 102,250; Feb. 2; Gaz. vol. 211; p. 279.
- Tubing and structural elements made therefrom, Metallic. The Standard Welding Company. No. 105,377; July 20; Gaz. vol. 216; p. 1009.
- Tuberculin test-plates. A. H. Keller. No. 107,345; Nov. 23; Gaz. vol. 220; p. 1368.
- Turbines and parts thereof, Steam. W. J. H. Strong. No. 103,627; Apr. 6; Gaz. vol. 213; p. 358.
- Turbines, centrifugal pumps and blowers, &c., Steam. De Laval Steam Turbine Company. No. 105,191; July 13; Gaz. vol. 216; p. 657.
- Turbines, centrifugal pumps and blowers, &c., Steam. De Laval Steam Turbine Co. No. 107,738; Dec. 28; Gaz. vol. 221; p. 1445.
- Tuna, Packed. Coast Fishing Co. No. 102,627; Feb. 16; Gaz. vol. 211; p. 953.
- Twine, cord, and string. United Drug Company. No. 104,959; June 29; Gaz. vol. 215; p. 1494.
- Twine, rope, and cordage. Columbian Rope Company. No. 102,999; Mar. 16; Gaz. vol. 212; p. 1049.
- Twines. American Manufacturing Company. No. 103,369; Mar. 30; Gaz. vol. 212; p. 1686.
- Twines and cordage. Morice Twine Mills. No. 107,725; Dec. 21; Gaz. vol. 221; p. 1036.
- Twines and cords. Lees Mfg. Co. No. 103,104; Mar. 16; Gaz. vol. 212; p. 1052.
- Twines, Cotton and linen. G. Underwood, Jr. No. 105,907; Aug. 24; Gaz. vol. 217; p. 1337.
- Type-metal. Syracuse Smelting Works. No. 107,216; Nov. 16; Gaz. vol. 220; p. 1037.
- Type-writer copy-holders. Lineatime Manufacturing Co. No. 105,822; Aug. 17; Gaz. vol. 217; p. 1052.
- Type-writer ribbons. E. H. Walsh. No. 102,702; Feb. 23; Gaz. vol. 211; p. 1256.
- Type-writer ribbons and carbon-paper. The Carter's Ink Company. No. 104,815; June 15; Gaz. vol. 215; p. 974.
- Type-writers, Repaired. J. S. Morse. No. 107,524; Dec. 7; Gaz. vol. 221; p. 346.
- Type-writing-machine attachment for manifold writing. The Egly Register Company. No. 102,938; Mar. 2; Gaz. vol. 212; p. 324.
- Type-writing machines and parts thereof. Royal Type-writer Co. No. 103,679; Apr. 13; Gaz. vol. 213; p. 740.
- Umbilical-cord and veterinary-surgeon ligatures and sportsmen's sterile cord. J. B. Dunham. No. 107,442; Nov. 30; Gaz. vol. 220; p. 1715.
- Umbrellas. John Murphy Umbrella Co. No. 106,655; Oct. 26; Gaz. vol. 219; p. 1230.
- Umbrellas and parasols. Follmer Clogg & Co. No. 102,787; Feb. 23; Gaz. vol. 211; p. 1258.
- Umbrellas and parasols. Simons & McGill. No. 103,919; Apr. 20; Gaz. vol. 213; p. 1113.
- Umbrellas and parasols. T. Slatter. No. 106,910; Nov. 2; Gaz. vol. 220; p. 345.
- Undergarment, Child's. F. H. Sprague Co. No. 103,829; Apr. 13; Gaz. vol. 213; p. 745.
- Undershirts, drawers, and union suits. The Cooper Mfg Co. No. 106,570; Oct. 26; Gaz. vol. 219; p. 1228.
- Undershirts, drawers, union suits, &c. Oppenheim, Oberndorf & Co. No. 106,486; Oct. 19; Gaz. vol. 219; p. 926.
- Underskirts and petticoats. Greenwald Brothers Incorporated. No. 102,873; Feb. 23; Gaz. vol. 211; p. 1261.
- Underskirts, Silk. H. Zweifel. No. 105,572; Aug. 3; Gaz. vol. 217; p. 537.
- Underwear and hosiery. The Mayo Mills. No. 105,517; Aug. 3; Gaz. vol. 217; p. 335.
- Underwear and undergarments, Children's and infants' certain named. Earnshaw Knitting Company. No. 105,345; July 20; Gaz. vol. 216; p. 1008.
- Underwear, Children's union. Charles E. Shedaker & Sons. No. 107,746; Dec. 28; Gaz. vol. 221; p. 1445.
- Underwear, Linen-mesh. Bardenheuer Hygienic Underwear Co. No. 105,523; Aug. 3; Gaz. vol. 217; p. 335.
- Underwear, Men's and boys'. Guiterman Bros. No. 101,941; Jan. 19; Gaz. vol. 210; p. 1060.
- Underwear of knitted material, Children's. Amazon Products Company. No. 107,137; Nov. 16; Gaz. vol. 220; p. 1035.

- Underwear, &c., Woven and knitted union-suit. G. W. Kelly. No. 102,284; Feb. 2; Gaz. vol. 211; p. 280.
- Uniforms, house-dresses, &c., Nurses' and maids'. Hays & Green. No. 106,436; Oct. 19; Gaz. vol. 219; p. 924.
- Unions. Bridgman Bros. Co. No. 106,555; Oct. 26; Gaz. vol. 219; p. 1227.
- Unions and pipe-fittings. Metal. National Tube Company. No. 105,739; Aug. 17; Gaz. vol. 217; p. 1050.
- Upholstering-cloth. Earnsdale Worsted Co. No. 101,837; Jan. 12; Gaz. vol. 210; p. 712.
- Upholstering purposes, Certain named materials for. Sulzberger & Sons Company. No. 104,035; Apr. 27; Gaz. vol. 213; p. 1442.
- Uric-acid eliminant, urinary and intestinal antiseptic. W. A. Rullman. No. 102,693; Feb. 23; Gaz. vol. 211; p. 1256.
- Urns, vases, trays, pedestals for statuary, &c. Geo. Borgfeldt & Co. No. 105,932; Aug. 31; Gaz. vol. 217; p. 1657.
- Uterine tube. Self-retaining. R. Jentzsch. No. 103,899; Apr. 20; Gaz. vol. 213; p. 1112.
- Valves and compression stops and wastes. Cage and siphon. Exeter Brass Works. No. 103,158; Mar. 16; Gaz. vol. 212; p. 1054.
- Valves and parts thereof, Metallic. Jenkins Bros. No. 105,115; July 6; Gaz. vol. 216; p. 323.
- Valves, Composition disk brass. Penberthy Injector Co. No. 106,255; Oct. 19; Gaz. vol. 219; p. 919.
- Valve-cups constructed of bow-spring metal, graphite, and canvas. Parker Cup & Specialty Works. No. 106,665; Oct. 26; Gaz. vol. 219; p. 1230.
- Valve-disks. G. R. Starrs. No. 106,264; Oct. 19; Gaz. vol. 219; p. 919.
- Valves for heating apparatus and damper-regulators. Safety Vapor Heating Co. No. 104,484; June 1; Gaz. vol. 215; p. 318.
- Valves, gage-cocks, and strainers. Steam, check, and relief. Nathan Manufacturing Company. No. 104,225; May 11; Gaz. vol. 214; p. 678.
- Valves, Metallic. Bishop Babcock Becker Co. No. 105,493; July 27; Gaz. vol. 216; p. 1315.
- Valves, Metallic. The Wm. Powell Co. No. 106,179; Oct. 12; Gaz. vol. 219; p. 583.
- Valves, Metallic. Speakman Supply & Pipe Company. No. 103,124; Mar. 16; Gaz. vol. 212; p. 1053.
- Varnish. Atlantic Varnish Works. No. 103,406; Apr. 6; Gaz. vol. 213; p. 351.
- Varnish. Carpenter-Morton Company. No. 101,913; Jan. 19; Gaz. vol. 210; p. 1059.
- Varnish. The Forbes Varnish Company. No. 106,150; Oct. 12; Gaz. vol. 219; p. 583.
- Varnish. The U-Auto Varnish Co. Nos. 104,273-9; May 11; Gaz. vol. 214; p. 679.
- Varnish. C. A. Willey Company. No. 104,188; May 4; Gaz. vol. 214; p. 341.
- Varnish, enamels, distempers, and paints. Wilkinson, Heywood & Clark. No. 102,234; Jan. 26; Gaz. vol. 210; p. 1394.
- Varnish substitute for internally coating fermenting tubs, casks, &c. Chas. L. Kiewert Co. No. 103,065; Mar. 16; Gaz. vol. 212; p. 1051.
- Varnishes. Berry Brothers. No. 104,196; May 11; Gaz. vol. 214; p. 677.
- Varnishes. H. L. Colman. No. 106,143; Oct. 12; Gaz. vol. 219; p. 582.
- Varnishes. Commonwealth Varnish Company. No. 104,090; Apr. 27; Gaz. vol. 213; p. 1444.
- Varnishes. W. P. Fuller & Co. Nos. 104,323-4; May 18; Gaz. vol. 214; p. 1022.
- Varnishes, enamels, and paints. Berry Brothers. No. 103,552; Apr. 6; Gaz. vol. 213; p. 355.
- Varnishes, driers, japans, &c. Standard Varnish Works. No. 103,075; Mar. 16; Gaz. vol. 212; p. 1051.
- Varnishes, stains, and enamels. John W. Masury & Son. No. 105,693; Aug. 10; Gaz. vol. 217; p. 696.
- Varnishes, stains, enamels, and mixed paints. Atlantic Drier & Varnish Co. No. 105,147; July 6; Gaz. vol. 216; p. 324.
- Vaults, Cement burial. The Norwalk Vault Company. No. 106,358; Oct. 19; Gaz. vol. 219; p. 922.
- Vegetable compound specially treated. E. M. Potter. No. 103,570; Apr. 6; Gaz. vol. 213; p. 356.
- Vegetables and kitchen herbs. Pulverized. G. B. Martino & Figlio. No. 106,787; Oct. 26; Gaz. vol. 219; p. 1234.
- Vegetables, Fresh. The Greeley Mercantile Co. No. 103,264; Mar. 23; Gaz. vol. 212; p. 1355.
- Vegetables, particularly potatoes, Fresh. Eastern Shore of Virginia Produce Exchange. No. 106,948; Nov. 9; Gaz. vol. 220; p. 670.
- Vehicle lighting and starting apparatus, Electrical. Bijur Motor Lighting Company. No. 104,702; June 15; Gaz. vol. 215; p. 971.
- Vehicles and parts thereof, Certain named. Daimler-Motoren-Gesellschaft. No. 101,773; Jan. 12; Gaz. vol. 210; p. 710.
- Vehicles, Children's. The Rattan Mfg. Co. No. 103,792; Apr. 13; Gaz. vol. 213; p. 743.
- Vehicles, Commercial motor-. Wichita Falls Motor Co. No. 106,192; Oct. 12; Gaz. vol. 219; p. 584.
- Vehicles, other than engines, for children's use. A. Mecky Company. No. 103,858; Apr. 20; Gaz. vol. 213; p. 1111.
- Vehicles, trucks, running-gears, &c. Motor. Universal Motor Truck Company. No. 104,365; May 25; Gaz. vol. 214; p. 1315.
- Velocipedes, motor cycles and cars, and cycle-cars. Coventry Premier. No. 105,719; Aug. 17; Gaz. vol. 217; p. 1049.
- Veils and veiling in the piece. E. & Z. Van Raalte. No. 103,924; Apr. 20; Gaz. vol. 213; p. 1113.
- Velvets. J. B. David. No. 102,259; Feb. 2; Gaz. vol. 211; p. 279.
- Velvets. J. B. David. No. 102,261; Feb. 2; Gaz. vol. 211; p. 279.
- Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. Nos. 101,796-7; Jan. 12; Gaz. vol. 210; p. 711.
- Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. No. 102,180; Jan. 26; Gaz. vol. 210; p. 1392.
- Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. Nos. 104,173-4; May 4; Gaz. vol. 214; p. 340.
- Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. No. 104,842; June 22; Gaz. vol. 215; p. 1257.
- Velvets and plushes in the piece. Salt's Textile Manufacturing Company. No. 105,490; July 27; Gaz. vol. 216; p. 1315.
- Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. No. 105,612; Aug. 10; Gaz. vol. 217; p. 694.
- Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. No. 106,511; Oct. 19; Gaz. vol. 219; p. 926.
- Velvets and plushes in the piece. The Salt's Textile Manufacturing Company. No. 106,907; Nov. 2; Gaz. vol. 220; p. 345.
- Velvets, velveteens, and corduroys. Rosen, Plechner & Lipschutz. No. 106,800; Oct. 26; Gaz. vol. 219; p. 1234.
- Velvets, woollens, worsteds, dress-linens, &c. The John S. Naylor Company. No. 106,656; Oct. 26; Gaz. vol. 219; p. 1230.
- Venerical diseases. W. H. Self. No. 107,562; Dec. 7; Gaz. vol. 221; p. 348.
- Ventilators. J. C. Kerchen. No. 103,292; Mar. 30; Gaz. vol. 212; p. 1683.
- Vermifuge. Smith, Kline & French Co. Nos. 103,798-9; Apr. 13; Gaz. vol. 213; p. 744.
- Vermin and noxious insects, Means for destroying. Fritz Schulz Aktiengesellschaft. No. 106,227; Oct. 19; Gaz. vol. 219; p. 918.
- Vermin-exterminator. Parsoline Company. No. 105,671; Aug. 10; Gaz. vol. 217; p. 696.
- Vessel closures, Metal. National Metal Seal Corporation. No. 105,408; July 20; Gaz. vol. 216; p. 1010.
- Veterinary instruments, apparatus, and contrivances. John Dewsbury & Son. No. 102,380; Feb. 9; Gaz. vol. 211; p. 634.
- Veterinary medicine, &c. The Bluetts Company. No. 103,412; Apr. 6; Gaz. vol. 213; p. 351.
- Veterinary remedies for distemper, Influenza, &c. Wells Medicine Company. No. 106,274; Oct. 19; Gaz. vol. 219; p. 917.
- Veterinary remedy for sores, cuts, &c. Huntsman Remedy Company. No. 106,332; Oct. 19; Gaz. vol. 219; p. 927.
- Vibrators and sparking points, Master-. W. S. Daniels. No. 105,189; July 13; Gaz. vol. 216; p. 657.
- Viburnum compound. J. C. Beach, M. D. No. 106,203; Oct. 19; Gaz. vol. 219; p. 917.
- Vinegar. J. M. Eshleman. No. 102,078; Jan. 26; Gaz. vol. 210; p. 1389.
- Vinegar. The Latimer Chemical Company, doing business as Latimer Cider & Vinegar Co. No. 102,804; Feb. 23; Gaz. vol. 211; p. 1259.
- Vinegar. Yakima Fruit Products Co. No. 102,952; Mar. 2; Gaz. vol. 212; p. 325.
- Vinegar. Apple-cider. National Fruit Product Company. No. 104,641; June 8; Gaz. vol. 215; p. 662.
- Violin-strings, accordions, concertinas, &c. The Fred Gretsch Mfg. Co. No. 104,146; May 4; Gaz. vol. 214; p. 340.
- Violin, viola, &c., strings. V. C. Squier. No. 106,692; Oct. 26; Gaz. vol. 219; p. 1231.
- Viruses, serums, toxins, and antitoxins. Parke, Davis & Co. No. 102,656; Feb. 16; Gaz. vol. 211; p. 954.
- Viruses, serums, toxins, and antitoxins. Parke Davis & Co. No. 106,175; Oct. 12; Gaz. vol. 219; p. 583.
- Vises and lathe-dogs. Bonney Vise & Tool Works. No. 104,199; May 11; Gaz. vol. 214; p. 677.
- Voile. E. McKittrick & Co. No. 105,858; Aug. 24; Gaz. vol. 217; p. 1335.
- Wafer for cervical inflammations, &c., Uterine. Luyties Pharmacy Company. No. 106,051; Sept. 21; Gaz. vol. 218; p. 873.
- Wafers or crackers. Sanitary Food Manufacturing Company. No. 103,073; Mar. 16; Gaz. vol. 212; p. 1051.
- Waffle compounds. O. B. Clow. No. 104,969; June 29; Gaz. vol. 215; p. 1494.
- Wagons and carts. The Sechler & Company. No. 106,371; Oct. 19; Gaz. vol. 219; p. 922.
- Wagons and parts thereof. International Harvester Corporation. No. 103,387; Mar. 30; Gaz. vol. 212; p. 1686.

Alphabetical list of trade-marks—Continued.

- Wagons, automobiles, and motor-trucks and parts thereof. International Harvester Corporation. No. 105,497; July 27; Gaz. vol. 216; p. 1315.
- Wagons, Farm and delivery. Gestring Wagon Co. No. 105,892; Aug. 24; Gaz. vol. 217; p. 1336.
- Wagons, Hand-propelled children's. Rundle Novelty Co. No. 107,385; Nov. 23; Gaz. vol. 220; p. 1369.
- Walnuts. California Walnut Growers Association. No. 106,834; Nov. 2; Gaz. vol. 220; p. 343.
- Waists and dresses, Shirt-. Rand Brothers. No. 106,502; Oct. 19; Gaz. vol. 219; p. 926.
- Waists and suits, Ladies'. Hynard & Jung Company. No. 103,319; Mar. 30; Gaz. vol. 212; p. 1684.
- Waists, Children's clothing-supporting. Amazon Products Co. No. 104,693; June 15; Gaz. vol. 215; p. 971.
- Waists, Ladies' outer. Swan Waist Co. No. 105,279; July 13; Gaz. vol. 216; p. 660.
- Wall-board. John Schroeder Lumber Company. No. 107,745; Dec. 28; Gaz. vol. 221; p. 1445.
- Wall-board and building-paper. The Beaver Company. No. 105,640; Aug. 10; Gaz. vol. 217; p. 695.
- Wall-boards. A. G. Cameron. No. 105,808; Aug. 17; Gaz. vol. 217; p. 1052.
- Wall-coating, Liquid-cement. Trussed Concrete Steel Company. No. 105,472; July 27; Gaz. vol. 216; p. 1314.
- Wallets, pocket-books, and bill-folds. H. Scheuer & Sons. No. 102,763; Feb. 23; Gaz. vol. 211; p. 1258.
- Walnuts. E. D. Day. No. 106,945; Nov. 9; Gaz. vol. 220; p. 669.
- Washboards. The Monarch Manufacturing Company. No. 107,557; Dec. 7; Gaz. vol. 221; p. 347.
- Washboards. National Washboard Company. Nos. 103,471-549; Apr. 6; Gaz. vol. 213; pp. 353-5.
- Washboards. National Washboard Company. No. 104,335; May 18; Gaz. vol. 214; p. 1022.
- Washing fluid. National Grocery Company. No. 107,274; Nov. 16; Gaz. vol. 220; p. 1039.
- Washing and cleaning solids, liquids, or pastes. Chemische Fabrik Stockhausen & Cie. No. 102,054; Jan. 26; Gaz. vol. 210; p. 1388.
- Washing compounds for walls, ceilings, floors, &c. H. E. Snyder. No. 104,487; June 1; Gaz. vol. 215; p. 318.
- Washing-machines. P. O. Hagen. No. 103,238; Mar. 23; Gaz. vol. 212; p. 1354.
- Washing-machines. The Home Washing Mach. Co. No. 103,661; Apr. 13; Gaz. vol. 213; p. 739.
- Washing-machines. W. Hope. No. 105,730; Aug. 17; Gaz. vol. 217; p. 1049.
- Washing-machines and benches for same. American Washer Co. No. 102,667; Feb. 23; Gaz. vol. 211; p. 1255.
- Washing-machines and wringers. The Salt Lake Hardware Co. No. 105,232; July 13; Gaz. vol. 216; p. 658.
- Washing machines, Clothes-. Capital Electric Company. No. 103,254; Mar. 23; Gaz. vol. 212; p. 1354.
- Washing-machines, Electric equipments for power. R. D. Robinson. No. 105,757; Aug. 17; Gaz. vol. 217; p. 1050.
- Washing-powder. The Cudahy Packing Company. No. 104,444; June 1; Gaz. vol. 215; p. 317.
- Washing-powder. Los Angeles Soap Company. No. 105,942; Aug. 31; Gaz. vol. 217; p. 1657.
- Washing-powder. Los Angeles Soap Company. No. 106,454; Oct. 19; Gaz. vol. 219; p. 925.
- Washing-powder. J. Macpherson. No. 103,244; Mar. 23; Gaz. vol. 212; p. 1354.
- Washing-powder. Sierra Chemical Company. No. 103,768; Apr. 13; Gaz. vol. 213; p. 743.
- Washing-powder for kettles, pots, fabrics, &c. Merry Cleanser Company. No. 101,860; Jan. 12; Gaz. vol. 210; p. 713.
- Washing preparation. Clothes-. S. Strunz & Son. No. 101,803; Jan. 12; Gaz. vol. 210; p. 711.
- Washing-tablets. Naptha Washing Tablet Co. No. 107,743; Dec. 28; Gaz. vol. 221; p. 1445.
- Watch and clock movements, Parts of. Henry Zimmern & Company. No. 104,114; Apr. 27; Gaz. vol. 213; p. 1442.
- Watches. Knickerbocker Watch Co. No. 103,589; Apr. 6; Gaz. vol. 213; p. 356.
- Watches. R. H. Macy & Co. No. 106,457; Oct. 19; Gaz. vol. 219; p. 925.
- Watches and clocks. Leonard Watch Company. No. 103,353; Mar. 30; Gaz. vol. 212; p. 1685.
- Watches and clocks. Oneida Community. No. 107,715; Dec. 21; Gaz. vol. 221; p. 1036.
- Watches and watch-movements. J. Racine & Co. No. 106,258; Oct. 19; Gaz. vol. 219; p. 919.
- Watches and watch-movements. A. Schwob. No. 102,188; Jan. 26; Gaz. vol. 210; p. 1392.
- Watches, clocks, and their parts and cases. Aegler S. A. Nos. 101,818-19; Jan. 12; Gaz. vol. 210; p. 711.
- Watches, watchcases, watch-movements, and parts thereof. The Keystone Watch Case Company. No. 106,237; Oct. 19; Gaz. vol. 219; p. 918.
- Watchmaker's tool for adjusting balance-wheels. L. Kohn. No. 107,689; Dec. 21; Gaz. vol. 221; p. 1035.
- Water. W. J. H. Strong. No. 103,573; Apr. 6; Gaz. vol. 213; p. 356.
- Water and ginger-ale, Mineral. Waukesha Roxo Company. No. 102,853; Feb. 23; Gaz. vol. 211; p. 1260.
- Water and non-alcoholic carbonated beverages, Natural and distilled. A. Wegener's Sons. No. 105,405; July 20; Gaz. vol. 216; p. 1010.
- Water-gages. Nathan Manufacturing Company. No. 104,098; Apr. 27; Gaz. vol. 213; p. 1444.
- Water, Laxative mineral. Aquamarine Company. No. 104,696; June 15; Gaz. vol. 215; p. 971.
- Water, Mineral. The Kentucky Carlisbad Springs Hotel Co. No. 107,667; Dec. 14; Gaz. vol. 221; p. 734.
- Water, Mineral. Lenox Supply Company. No. 104,097; Apr. 27; Gaz. vol. 213; p. 1444.
- Water, Mineral. J. Thomas. No. 106,813; Oct. 26; Gaz. vol. 219; p. 1235.
- Water, Natural mineral. I. Du Bouchet. No. 106,291; Oct. 19; Gaz. vol. 219; p. 920.
- Water-softeners and cleansers. Kleanall Chemical Company. No. 104,457; June 1; Gaz. vol. 215; p. 317.
- Water, Toilet. L. C. Darbour. No. 103,258; Mar. 23; Gaz. vol. 212; p. 1355.
- Water, Toilet. O-Do-Cure Toilet Company. No. 103,911; Apr. 20; Gaz. vol. 213; p. 1113.
- Waters, Mineral. Alqua Medicinal Water Co. No. 104,411; May 25; Gaz. vol. 214; p. 1317.
- Waters, Mineral. C. Conde. No. 103,313; Mar. 30; Gaz. vol. 212; p. 1684.
- Waters, Natural mineral. Compagnie fermière de l'Etablissement thermal de Vichy. No. 103,778; Apr. 13; Gaz. vol. 213; p. 743.
- Waters, Table-. St. Louis Agency of National Pure Water Company. No. 106,693; Oct. 26; Gaz. vol. 219; p. 1231.
- Waterproof coating, Ready-mixed washable flat wall. The O'Brien Varnish Co. No. 104,567; June 1; Gaz. vol. 215; p. 321.
- Waterproof fabric. British American Manufacturing Company. No. 105,100; July 6; Gaz. vol. 216; p. 323.
- Waterproof textile fabrics. Eastern Finishing Works. No. 106,225; Oct. 19; Gaz. vol. 219; p. 918.
- Waterproofed fabric. British American Manufacturing Company. No. 104,790; June 15; Gaz. vol. 215; p. 974.
- Waterproofing and roofing felts, &c., Membrane. Warren Chemical & Manufacturing Company. No. 101,812; Jan. 12; Gaz. vol. 210; p. 711.
- Waterproofing composition for fabrics. W. B. Price. Nos. 102,301-2; Feb. 2; Gaz. vol. 211; p. 280.
- Waterproofing composition for fabrics. W. B. Price. Nos. 102,304-7; Feb. 2; Gaz. vol. 211; pp. 280-1.
- Waterproofing compound. W. B. Price. No. 102,308; Feb. 2; Gaz. vol. 211; p. 281.
- Waterproofing compound for all kinds of textiles. Perrotts Limited. No. 102,946; Mar. 2; Gaz. vol. 212; p. 324.
- Waterproofing compound for leather and leather belting. Olmsted-Flint Company. No. 106,359. Oct. 19; Gaz. vol. 219; p. 922.
- Waterproofing compounds for incorporating in mortar and concrete. The Sandusky Portland Cement Company. No. 106,908; Nov. 2; Gaz. vol. 220; p. 345.
- Wax and fire-extinguishing compound, Ironing-. Wizard Products Co. No. 106,722; Oct. 26; Gaz. vol. 219; p. 1232.
- Wax, library-paste, mucilage, &c., Sealing-. United Drug Company. No. 104,356; May 25; Gaz. vol. 214; p. 1315.
- Wax, Paraffin-. W. R. Grace & Co. No. 106,597; Oct. 26; Gaz. vol. 219; p. 1228.
- Waxes, Sealing-. Insulating Materials Company. No. 104,025; Apr. 27; Gaz. vol. 213; p. 1442.
- Waxes, Sealing-. Insulating Materials Company. No. 105,299; July 13; Gaz. vol. 216; p. 660.
- Waxes, wood-dye, paste wood-filler, &c., Powdered and prepared. S. C. Johnson & Son. No. 106,108; Oct. 12; Gaz. vol. 219; p. 581.
- Weather-strips. The National Metal Weather Strip Co. No. 102,149; Jan. 26; Gaz. vol. 210; p. 1391.
- Webbing, tapes, and braids, Woven and braided. The Ansonia O & C Company. No. 102,351; Feb. 9; Gaz. vol. 211; p. 633.
- Webbing, woven straps, fabric belting, &c. L. H. Gilmer Co. No. 106,425; Oct. 19; Gaz. vol. 219; p. 924.
- Weed-killing compounds, Chemical. The Railway Chemical Company. No. 101,678; Jan. 5; Gaz. vol. 210; p. 395.
- Weighing machines and scales. John Chatillon & Sons. No. 104,203; May 11; Gaz. vol. 214; p. 677.
- Welding and cutting torches or blowpipes. Carbo Hydrogen Co. of America. No. 107,662; Dec. 14; Gaz. vol. 221; p. 733.
- Wheat, Macerated. B. Tyler. No. 102,212; Jan. 26; Gaz. vol. 210; p. 1393.
- Wheat-shorts. Akin-Erskine Milling Company. No. 102,005; Jan. 26; Gaz. vol. 210; p. 1387.
- Wheel-rims, Vehicle. Clincher Automobile Tire Manufacturers' Association. No. 104,905; June 22; Gaz. vol. 215; p. 1259.
- Wheels, Motor and Gear Improvement Company. No. 101,713; Jan. 5; Gaz. vol. 210; p. 396.
- Wheels and parts thereof, felly-bands, &c., Vehicle-. The Standard Welding Company. No. 105,424; July 20; Gaz. vol. 216; p. 1010.
- Wheels, Cast-metal machinery-. Link-Belt Company. No. 107,494; Dec. 7; Gaz. vol. 221; p. 346.

- Wheels, Motor and cycle car, automobile, and motor-cycle. Rudge-Whitworth. No. 104,396; May 25; Gaz. vol. 214; p. 1316.
- Whips. C. H. Clark. No. 107,513; Dec. 7; Gaz. vol. 221; p. 346.
- Whiskies, Blend of straight. R. M. Rose Company. No. 106,122; Oct. 12; Gaz. vol. 219; p. 582.
- Whisky. J. J. Doherty Co. No. 107,469; Dec. 7; Gaz. vol. 221; p. 345.
- Whisky. Fishel & Levy. No. 102,651; Feb. 16; Gaz. vol. 211; p. 954.
- Whisky. The Gottschalk Co. No. 102,092; Jan. 26; Gaz. vol. 210; p. 1389.
- Whisky. Gottschalk Co. No. 102,893; Mar. 2; Gaz. vol. 212; p. 323.
- Whisky. The Gottschalk Co. No. 104,920; June 22; Gaz. vol. 215; p. 1260.
- Whisky. H. Huber & Co. No. 106,613; Oct. 26; Gaz. vol. 219; p. 1229.
- Whisky. F. W. Hunt & Co. No. 102,108; Jan. 26; Gaz. vol. 210; p. 1390.
- Whisky. Johnstone, Sadler and Company. No. 105,854; Aug. 24; Gaz. vol. 217; p. 1335.
- Whisky. S. J. Lang. No. 101,785; Jan. 12; Gaz. vol. 210; p. 710.
- Whisky. S. J. Lang. No. 102,121; Jan. 26; Gaz. vol. 210; p. 1390.
- Whisky. A. Margulls. No. 106,647; Oct. 26; Gaz. vol. 219; p. 1230.
- Whisky. M. O'Brien. No. 104,743; June 15; Gaz. vol. 215; p. 972.
- Whisky. Old Victoria Distillery. No. 107,190; Nov. 16; Gaz. vol. 220; p. 1036.
- Whisky. Porter & Jones. No. 102,300; Feb. 2; Gaz. vol. 211; p. 280.
- Whisky. Robert Brown Limited. No. 102,677; Feb. 23; Gaz. vol. 211; p. 1255.
- Whisky. Rosenfield Bros. & Co. No. 101,752; Jan. 12; Gaz. vol. 210; p. 709.
- Whisky. Hiram Walker & Sons. Nos. 102,661-2; Feb. 16; Gaz. vol. 211; p. 954.
- Whisky. Hiram Walker & Sons. No. 102,913; Mar. 2; Gaz. vol. 212; p. 323.
- Whisky, Blend. Cahn, Belt & Co. No. 103,047; Mar. 16; Gaz. vol. 212; p. 1050.
- Whisky, Blend. W. G. & E. G. Murphy Co. Nos. 104,149-50; May 4; Gaz. vol. 214; p. 340.
- Whisky, Blended Scotch. Macdonald & Muir. No. 106,456; Oct. 19; Gaz. vol. 219; p. 925.
- Whisky, Blended Scotch. F. Mansfield. No. 102,291; Feb. 2; Gaz. vol. 211; p. 280.
- Whisky, brandy, cordials, and rum. R. Petri Wine Company. No. 104,154; May 4; Gaz. vol. 214; p. 340.
- Whisky, gin, and brandy. Goldberg, Bowen & Co. No. 103,316; Mar. 30; Gaz. vol. 212; p. 1684.
- Whisky, gin, brandy, and kohl. United Wine & Trading Co. No. 107,507; Dec. 7; Gaz. vol. 221; p. 346.
- Whisky, gin, rum, brandy, and cordial. F. Westhelmer & Sons. No. 105,476; July 27; Gaz. vol. 216; p. 1314.
- Whisky, Scotch. T. J. Molloy. No. 107,476; Dec. 7; Gaz. vol. 221; p. 345.
- Whisky, Scotch. C. S. Proctor. No. 104,647; June 8; Gaz. vol. 215; p. 662.
- Whisky, Straight. P. A. Horback. No. 102,654; Feb. 16; Gaz. vol. 211; p. 954.
- Whistle-calls. C. L. Butts. No. 106,738; Oct. 26; Gaz. vol. 219; p. 1233.
- Willows and willow-cuttings. Rattan and Cane Company. Nos. 107,280-1; Nov. 16; Gaz. vol. 220; p. 1039.
- Window-screen and storm-sash hangers and fasteners. E. J. Fellman. No. 104,608; June 8; Gaz. vol. 215; p. 661.
- Wine. P. J. Murray & Company. No. 107,726; Dec. 21; Gaz. vol. 221; p. 1036.
- Wine, Champagne. Chandon et Cie. No. 102,960; Mar. 9; Gaz. vol. 212; p. 685.
- Wine, Champagne. Chandon et Cie. No. 104,178; May 4; Gaz. vol. 214; p. 341.
- Wine, Marsala. Florio & C. Società Anonima Vinicola Italiana. No. 103,159; Mar. 16; Gaz. vol. 212; p. 1054.
- Wine, Muscatel. H. N. Gilbey. No. 106,230; Oct. 19; Gaz. vol. 219; p. 918.
- Wine, Port. J. Wile, Sons & Co. No. 107,506; Dec. 7; Gaz. vol. 221; p. 346.
- Wine, Sherry. J. W. Burdon. No. 102,915; Mar. 2; Gaz. vol. 212; p. 324.
- Wine, Sherry. Piury & Co. No. 106,256; Oct. 19; Gaz. vol. 219; p. 919.
- Wines. Bloomingdale Bros. No. 103,148; Mar. 16; Gaz. vol. 212; p. 1053.
- Wines. R. Petri Wine Company. No. 104,153; May 4; Gaz. vol. 214; p. 340.
- Wines. Stone Hill Wine Company. No. 102,699; Feb. 23; Gaz. vol. 211; p. 1256.
- Wines. Stone Hill Wine Company. No. 105,620; Aug. 10; Gaz. vol. 217; p. 694.
- Wines, Certain named. The Schuster Company. Nos. 104,993-4; June 29; Gaz. vol. 215; p. 1495.
- Wines, Medicinal. B. Prebol. No. 104,951; June 29; Gaz. vol. 215; p. 1494.
- Wines, Sparkling. Compagnie Generale des Vins Mousseux de Saumur, Maison Ackerman-Laurance. No. 102,376; Feb. 9; Gaz. vol. 211; p. 634.
- Wire fabric for screening. The W. S. Tyler Company. Nos. 102,467-9; Feb. 9; Gaz. vol. 211; p. 637.
- Wires and cables, Rubber-covered. Electric Cable Company. No. 104,180; May 4; Gaz. vol. 214; p. 341.
- Witch-hazel. American Chemical Company. No. 105,478; July 27; Gaz. vol. 216; p. 1314.
- Witch-hazel, blood-purifier, cold-cream, &c. McCormick & Co. No. 103,591; Apr. 6; Gaz. vol. 213; p. 357.
- Wood and furniture polish. Etna Chemical Company. No. 105,652; Aug. 10; Gaz. vol. 217; p. 695.
- Wood, concrete, &c., preserving and hardening liquid. Tylose Products Company. No. 105,473; July 27; Gaz. vol. 216; p. 1314.
- Wood-conserving products. Q. Förster. No. 104,871; June 22; Gaz. vol. 215; p. 1258.
- Wood-polish. A. Beardslee. No. 105,639; Aug. 10; Gaz. vol. 217; p. 695.
- Wood-preservative, Flame-proof. Penetim Manufacturing Company. No. 102,165; Jan. 26; Gaz. vol. 210; p. 1391.
- Wood-preserving and damp-proofing compounds. Montanin Company. No. 102,138; Jan. 26; Gaz. vol. 210; p. 1391.
- Woodworking tools and machinery, Certain named. The Sidney Tool Company. No. 101,753; Jan. 12; Gaz. vol. 210; p. 709.
- Wool tops. Arlington Mills. No. 106,927; Nov. 9; Gaz. vol. 220; p. 669.
- Wool tops. Middlebrook Wool Combing Company. No. 104,838; June 22; Gaz. vol. 215; p. 1257.
- Woolen and worsted piece goods. Forstmann & Hoffmann Co. No. 105,508; July 27; Gaz. vol. 216; p. 1315.
- Woolen and worsted piece goods. The W & K Company. Nos. 103,631-2; Apr. 6; Gaz. vol. 213; p. 358.
- Woolen fabrics in the piece. Worumbo Manufacturing Company. No. 107,674; Dec. 14; Gaz. vol. 221; p. 734.
- Woolen piece goods. The Cleveland Worsted Mills Co. No. 106,410; Oct. 19; Gaz. vol. 219; p. 923.
- Woolen piece goods. C. R. Hurd. No. 104,369; May 25; Gaz. vol. 214; p. 1315.
- Woolen piece goods. Arthur Koenig Company. No. 106,629; Oct. 26; Gaz. vol. 219; p. 1229.
- Woolen piece goods. Learoyd Brothers & Company. No. 106,871; Nov. 2; Gaz. vol. 220; p. 344.
- Woolen piece goods. C. Lovibond. No. 107,269; Nov. 16; Gaz. vol. 220; p. 1039.
- Woolen piece goods. Pawcatuck Woolen Mills. No. 103,118; Mar. 16; Gaz. vol. 212; p. 1052.
- Woolen piece goods. Wool Products Co. No. 107,133; Nov. 9; Gaz. vol. 220; p. 675.
- Woolen piece goods and blankets. Faribault Woolen Mill Company. No. 102,919; Mar. 2; Gaz. vol. 212; p. 324.
- Woolen textile fabrics. Hopeville Manufacturing Co. No. 106,862; Nov. 2; Gaz. vol. 220; p. 344.
- Woolen worsted goods in the piece. Yorkshire Worsted Mills. No. 101,816; Jan. 12; Gaz. vol. 210; p. 711.
- Woolen, worsted, silk, mohair, and cotton piece goods. G. J. Geer. Nos. 103,424-6; Apr. 6; Gaz. vol. 213; p. 351.
- Worsted goods in the piece. Samuel Hird & Sons. No. 105,410; July 20; Gaz. vol. 216; p. 1010.
- Worsted piece goods. Firm of R. Clough. No. 106,566; Oct. 26; Gaz. vol. 219; p. 1227.
- Woven and knitted fabrics of wool, cotton, and silk or mixture of same. Botany Worsted Mills. No. 106,736; Oct. 26; Gaz. vol. 219; p. 1233.
- Wrenches. Automatic Wrench Manufacturing Company. No. 106,196; Oct. 19; Gaz. vol. 219; p. 917.
- Wrenches. Bonney Vise & Tool Works. No. 105,781; Aug. 17; Gaz. vol. 217; p. 1051.
- Wrenches. Bonney Vise & Tool Works. No. 106,400; Oct. 19; Gaz. vol. 219; p. 923.
- Wrenches. Walworth Manufacturing Co. No. 103,135; Mar. 16; Gaz. vol. 212; p. 1053.
- Wrenches and vises. Screw. Bonney Vise & Tool Works. No. 104,592; June 8; Gaz. vol. 215; p. 661.
- Wrenches, tire-tools, pliers, &c. Central Automobile Supply Company. No. 104,318; May 18; Gaz. vol. 214; p. 1022.
- Writing fluid, carbon-paper, ink pads and ribbons. United Drug Company. No. 104,358; May 25; Gaz. vol. 214; p. 1315.
- Writing-machine, Stenographic. The Stenotype Co. No. 102,200; Jan. 26; Gaz. vol. 210; p. 1392.
- Yarn. G. Robison & Son. No. 105,229; July 13; Gaz. vol. 216; p. 658.
- Yarn. William Whitman Company. No. 106,718; Oct. 26; Gaz. vol. 219; p. 1232.
- Yarn, thread, and twine and wound packages thereof. H. L. Tiffany. No. 105,767; Aug. 17; Gaz. vol. 217; p. 1050.
- Yarn, thread, and twine in wound condition, Cone-tubs for receiving. H. L. Tiffany. No. 107,398; Nov. 23; Gaz. vol. 220; p. 1369.
- Yarn, Worsted. Sächsische Wollgarnfabrik Aktiengesellschaft. No. 107,100; Nov. 9; Gaz. vol. 220; p. 674.
- Yarns. Paul Schulze & Co. No. 101,720; Jan. 5; Gaz. vol. 210; p. 396.

Alphabetical list of trade-marks—Continued.

-
- | | |
|---|---|
| <p>Yarns. J. Sutcliffe & Sons. No. 101,986; Jan. 19; Gaz. vol. 210; p. 1061.</p> <p>Yarns. Textile Yarn Agency. No. 106,914; Nov. 2; Gaz. vol. 220; p. 345.</p> <p>Yarns and thread. Howard Manufacturing Company. No. 102,970; Mar. 9; Gaz. vol. 212; p. 685.</p> <p>Yarns and threads. Dexter Yarn Company. No. 103,612; Apr. 6; Gaz. vol. 213; p. 357.</p> <p>Yarns, Cotton. Cynthia Mills. No. 107,736; Dec. 28; Gaz. vol. 221; p. 1445.</p> <p>Yarns, Cotton. Holmes Manufacturing Company. No. 102,797; Feb. 23; Gaz. vol. 211; p. 1259.</p> <p>Yarns, Embroidery. H. A. James & Co. No. 103,350; Mar. 30; Gaz. vol. 212; p. 1685.</p> <p>Yarns, French spun worsted and merino. Monomac Spinning Company. No. 103,760; Apr. 13; Gaz. vol. 213; p. 742.</p> | <p>Yarns made of cellulose. Courtaulds, Limited. No. 103,749; Apr. 13; Gaz. vol. 213; p. 742.</p> <p>Yarns, Mercerized and otherwise-processed cotton. Harding, Tilton & Company. No. 105,847; Aug. 24; Gaz. vol. 217; p. 1335.</p> <p>Yarns, Mercerized, &c., cotton. Harding, Tilton & Company. No. 104,348; May 25; Gaz. vol. 214; p. 1315.</p> <p>Yarns of wool, worsted, or hair. J. and J. Baldwin & Partners. No. 103,883; Apr. 20; Gaz. vol. 213; p. 1112.</p> <p>Yarns, Wool, worsted, or hair. J. & J. Baldwin & Partners. No. 101,900; Jan. 19; Gaz. vol. 210; p. 1059.</p> <p>Yeast. C. M. Le Bow. No. 107,354; Nov. 23; Gaz. vol. 220; p. 1368.</p> <p>Yeast. Northwestern Yeast Company. Nos. 102,154-5; Jan. 26; Gaz. vol. 210; p. 1391.</p> |
|---|---|
-

ALPHABETICAL LIST OF LABELS.

- "A Healthful Drink." (For a Beverage.) Lime-Kola Co. No. 18,795; Oct. 5; Gaz. vol. 219; p. 268.
- "Absorbine, Jr., The Antiseptic Liniment." (For Liniment.) W. F. Young. Nos. 18,964-5; Dec. 28; Gaz. vol. 221; p. 1451.
- "Aickelin Salad Dressing." (For a Salad-Dressing.) H. A. Aickelin & Co. No. 18,358; Apr. 13; Gaz. vol. 213; p. 747.
- "Ainsworth's Distemper and Barn Fever Cure." (For a Remedy for Distemper and Barn-Fever.) H. A. Ainsworth. No. 18,578; July 6; Gaz. vol. 216; p. 326.
- "Air-Vulc." (For a Preparation for Repairing Pneumatic Tires.) W. A. Freeburger. No. 18,275; Mar. 2; Gaz. vol. 212; p. 326.
- "Albifine." (For a Cosmetic.) E. J. Hamp. No. 18,797; Oct. 12; Gaz. vol. 219; p. 585.
- "Aleppo Cold Cream." (For Cold-Cream.) New England Laboratory Co. No. 18,703; Aug. 24; Gaz. vol. 217; p. 1339.
- "Alexander Sole Leather." (For Sole-Leather.) Alexander Brothers. No. 18,761; Sept. 21; Gaz. vol. 218; p. 874.
- "Alfax." (For Sail-Twine.) G. H. Davis, Jr. No. 18,326; Apr. 6; Gaz. vol. 213; p. 359.
- "Algonquin 'Ye Living Water.'" (For Mineral-Spring Water.) F. C. Smith. No. 18,713; Aug. 24; Gaz. vol. 217; p. 1339.
- "All Over Land Shirt." (For Shirts.) M. D. Harris. No. 18,694; Aug. 24; Gaz. vol. 217; p. 1339.
- "Allasch Doppelt Kummel." (For Cordial.) W. Michelson. No. 18,215; Feb. 2; Gaz. vol. 211; p. 283.
- "Alliance." (For Coffee.) Brazil Syndicate. No. 18,859; Nov. 16; Gaz. vol. 220; p. 1041.
- "Allwood 'Vienna Brand' Lime." (For a Lime Product.) Allwood Lime Company. No. 18,301; Mar. 16; Gaz. vol. 212; p. 1056.
- "Almond Cream." (For Almond Cream.) The S. S. White Dental Mfg. Co. No. 18,458; May 11; Gaz. vol. 214; p. 681.
- "Aloha." (For Hawaiian Ukulele-Strings.) Southern California Music Company. No. 18,267; Feb. 23; Gaz. vol. 211; p. 1262.
- "Alt-Holstein." (For Beer.) The Smith Brewing Co. No. 18,676; Aug. 17; Gaz. vol. 217; p. 1053.
- "Alundum." (For Grinding-Wheels.) Norton Company. No. 18,792; Oct. 5; Gaz. vol. 219; p. 268.
- "Amaro Romano." (For a Tonic.) A. A. Romano & Co. No. 18,453; May 11; Gaz. vol. 214; p. 681.
- "Ambassador." (For Whisky.) M. Wollstein Mercantile Co. No. 18,284; Mar. 2; Gaz. vol. 212; p. 326.
- "American Beauty." (For Tea.) McCarthy Brothers. No. 18,247; Feb. 9; Gaz. vol. 211; p. 640.
- "American Perfect Beer." (For Beer.) American Brewing Ass'n. No. 18,165; Jan. 12; Gaz. vol. 210; p. 715.
- "Annette Kellermann Swimming Tights." (For Swimming-Tights.) L. C. Asch. No. 18,394; Apr. 27; Gaz. vol. 213; p. 1445.
- "Antiseptic Dental Cream." (For Dentifrice.) F. Andrews. No. 18,316; Apr. 6; Gaz. vol. 213; p. 359.
- "Aquatone The Water-Way To Health." (For Mineral Water.) Paulson Medicinal Well Co. No. 18,279; Mar. 2; Gaz. vol. 212; p. 326.
- "Argolyte." (For Incandescent Electric Lamps.) Independent Lamp & Wire Company. No. 18,643; Aug. 3; Gaz. vol. 217; p. 338.
- "Aromints." (For Mints.) The Aromint Co. No. 18,435; May 11; Gaz. vol. 214; p. 681.
- "Aromita Silver Cleanzap." (For a Silver-Cleaner.) The Wm. M. Palmer Mfg. Co. No. 18,430; May 4; Gaz. vol. 214; p. 342.
- "Aronit." (For Knitted Sweaters.) L. A. Tennis. No. 18,230; Feb. 2; Gaz. vol. 211; p. 283.
- "Ascot." (For Garter-Elastic.) Smith Webbing Company. No. 18,714; Aug. 24; Gaz. vol. 217; p. 1339.
- "Atlas Home Brew." (For Lager-Beer.) Atlas Brewing Company. No. 18,594; July 20; Gaz. vol. 216; p. 1011.
- "Aunt Mary's Loaf Cake." (For Cake.) Consumers Bread Co. No. 18,473; May 25; Gaz. vol. 214; p. 1318.
- "Aut-O-Mint, A Dainty Confection." (For Lozenges.) Mint Products Company. No. 18,467; May 18; Gaz. vol. 214; p. 1024.
- "Auto City." (For Beer.) Auto City Brewing Co. No. 18,783; Oct. 5; Gaz. vol. 219; p. 268.
- "Automobile Sweets." (For Candy and Confectionery.) Brown-White. No. 18,399; Apr. 27; Gaz. vol. 213; p. 1445.
- "Avon-More." (For Mineral Waters.) Dry Ridge Sanatorium and Hotel Co. No. 18,846; Nov. 9; Gaz. vol. 220; p. 676.
- "B Cured Bread." (For Bread.) E. J. F. Hanson. No. 18,174; Jan. 12; Gaz. vol. 210; p. 715.
- "B & G." (For Sauterne Wines.) E. La Montagne's Sons. No. 18,341; Apr. 6; Gaz. vol. 213; p. 359.
- "B & G." (For Medoc Wines.) E. La Montagne's Sons. No. 18,342; Apr. 6; Gaz. vol. 213; p. 359.
- "Babcock's." (For Talcum Powder.) A. P. Babcock Co. No. 18,516; June 15; Gaz. vol. 215; p. 976.
- "Baker Gelatine." (For Gelatin.) The Franklin Baker Company. No. 18,730; Sept. 7; Gaz. vol. 218; p. 319.
- "Baker's Fresh Grated Coconut." (For Grated Coconut.) The Franklin Baker Company. No. 18,825; Nov. 2; Gaz. vol. 220; p. 347.
- "Banner Brand." (For Apples.) J. W. Teasdale & Co. No. 18,191; Jan. 12; Gaz. vol. 210; p. 715.
- "Banner Brand." (For Dried Fruit.) J. W. Teasdale & Co. No. 18,269; Feb. 23; Gaz. vol. 211; p. 1262.
- "Base Ball." (For a Game-Board.) O. R. Tompkins. No. 18,752; Sept. 7; Gaz. vol. 218; p. 319.
- "Baughn's Pellagra Remedy—Prescription No. 1—For Internal Use." (For a Pellagra Remedy.) American Compounding Co. No. 18,361; Apr. 13; Gaz. vol. 213; p. 747.
- "Beats-All Soda Fountain Flavor." (For Flavoring Extracts.) Brechet & Richter Company. No. 18,687; Aug. 24; Gaz. vol. 217; p. 1339.
- "Beatsall Hair Tonic." (For Hair-Tonic.) W. A. Renz. No. 18,583; July 6; Gaz. vol. 216; p. 326.
- "Beech-Nut Cigars." (For Beech-Nut Cigars.) Fritsch & Son. No. 18,333; Apr. 6; Gaz. vol. 213; p. 359.
- "Bellevue The Coffee Of Quality." (For Coffee.) Alexander Sheppard & Sons. No. 18,955; Dec. 28; Gaz. vol. 221; p. 1451.
- "Berwick." (For Cake.) J. W. Alden. No. 18,490; June 1; Gaz. vol. 215; p. 322.
- "Better Biscuit." (For Crackers.) Taggart Baking Company. No. 18,190; Jan. 12; Gaz. vol. 210; p. 715.
- "Blafold Ties." (For Neckwear.) Stanton Brothers. No. 18,353; Apr. 6; Gaz. vol. 213; p. 359.
- "Biff." (For Hand and Household Cleaners.) C. W. Wellington. No. 18,929; Dec. 21; Gaz. vol. 221; p. 1037.
- "Big-Dandy Bread." (For Bread.) P. Schulze. No. 18,488; May 25; Gaz. vol. 214; p. 1318.
- "Big Game Hunter." (For Toys.) The A. Schoenhut Company. No. 18,351; Apr. 6; Gaz. vol. 213; p. 359.
- "Black and Tan." (For Cigars.) Central Cigar Box Company. No. 18,637; Aug. 3; Gaz. vol. 217; p. 338.
- "Black Leaf 40." (For Nicotin Solution for Insecticides.) The Kentucky Tobacco Product Co. No. 18,407; Apr. 27; Gaz. vol. 213; p. 1445.
- "Blue Leaf." (For Bluing-Leaves.) Wyatt Manufacturing Co. No. 18,896; Nov. 30; Gaz. vol. 220; p. 1717.
- "Blue Point Oyster Crackers." (For Crackers.) Taggart Baking Company. No. 18,226; Feb. 2; Gaz. vol. 211; p. 283.
- "Blue Ribbon Parlor Brooms." (For Brooms.) Grove City Broom Company. No. 18,248; Feb. 16; Gaz. vol. 211; p. 954.
- "Blue Ribbon Tuna." (For Canned Tuna.) Long Beach Tuna Packing Co. No. 18,658; Aug. 10; Gaz. vol. 217; p. 698.
- "Blue Seal." (For Cigars.) C. Fortriede. No. 18,443; May 11; Gaz. vol. 214; p. 681.
- "Bonita." (For a Cleaner.) W. E. Hawley. No. 18,472; May 18; Gaz. vol. 214; p. 1024.
- "Boriclor." (For Tooth-Paste.) Borine Mfg. Co. No. 18,685; Aug. 24; Gaz. vol. 217; p. 1339.
- "Bosco Gold Label Brut." (For Wine.) Bosco & Company. No. 18,856; Nov. 16; Gaz. vol. 220; p. 1041.
- "Bosco Gold Label Red." (For Wine.) Bosco & Company. No. 18,854; Nov. 16; Gaz. vol. 220; p. 1041.
- "Bosco Gold Label Sec." (For Wine.) Bosco & Company. No. 18,855; Nov. 16; Gaz. vol. 220; p. 1041.
- "Boston Roasted Coffee." (For Coffee.) Dwinell-Wright Company. No. 18,882; Nov. 30; Gaz. vol. 220; p. 1717.
- "Boulevard Cigarettes." (For Cigarettes.) Tobias Bluestein, Inc. No. 18,249; Feb. 23; Gaz. vol. 211; p. 1262.
- "Bouquet de Habana." (For Cigars.) The Moehle Lithographic Co. No. 18,540; June 15; Gaz. vol. 215; p. 976.
- "Bowen's Fresno Brand." (For Confections.) Fresno Raisin and Fruit Products Company. No. 18,172; Jan. 12; Gaz. vol. 210; p. 715.

- "Boy Scouts." (For Popcorn.) J. Catsigianis. No. 18,321; Apr. 6; Gaz. vol. 213; p. 359.
- "Boyara." (For Cigarettes.) D. Spiro. No. 18,577; June 29; Gaz. vol. 215; p. 1497.
- "Bran Nu Bread." (For Bread.) Kalamazoo Vegetable Parchment Co. No. 18,535; June 15; Gaz. vol. 215; p. 976.
- "Brand." (For Coffees, Teas, and Spices.) The Woolson Spice Company. No. 18,421; Apr. 27; Gaz. vol. 213; p. 1445.
- "Bread." (For Bread.) E. J. F. Hanson. No. 18,173; Jan. 12; Gaz. vol. 210; p. 715.
- "Break Up The War—Make Peace." (For Puzzles.) J. L. Steinam. No. 18,189; Jan. 12; Gaz. vol. 210; p. 715.
- "Breitbart's Chocolate Malted Syrup." (For Chocolate Malted Syrup.) S. Breitbart. No. 18,599; July 20; Gaz. vol. 216; p. 1011.
- "Bridgeport Standard." (For Prepared Paint.) The Bridgeport Wood Finishing Co. No. 18,169; Jan. 12; Gaz. vol. 210; p. 715.
- "Bridgeport Standard." (For Prepared Paint.) The Bridgeport Wood Finishing Co. No. 18,286; Mar. 9; Gaz. vol. 212; p. 687.
- "Bromstaff Malt & Hops." (For Extract of Malt and Hops.) Bromstaff Malt Extract Company. No. 18,935; Dec. 28; Gaz. vol. 221; p. 1451.
- "Bryn Mawr Lady's Shirt." (For Shirt-Waists.) L. Adler. No. 18,932; Dec. 28; Gaz. vol. 221; p. 1451.
- "Buffum's Emmer Breakfast Food." (For Breakfast Food.) Emmer Products Company. No. 18,915; Dec. 21; Gaz. vol. 221; p. 1037.
- "Buffum's Emmer Graham." (For Graham Flour.) Emmer Products Company. No. 18,914; Dec. 21; Gaz. vol. 221; p. 1037.
- "Buffum's Emmer Pancake Flour Self-Rising." (For Pancake-Flour.) Emmer Products Company. No. 18,913; Dec. 21; Gaz. vol. 221; p. 1037.
- "Building Blocks." (For Toy Building-Blocks.) New Chicago Specialty Company. No. 18,185; Jan. 12; Gaz. vol. 210; p. 715.
- "Bunte Happy Home." (For Candies.) Bunte Brothers. No. 18,302; Mar. 16; Gaz. vol. 212; p. 1056.
- "Bunte Marshmallows." (For Marshmallows.) Bunte Brothers. No. 18,252; Feb. 23; Gaz. vol. 211; p. 1262.
- "Burrill's Tooth Paste." (For Tooth-Paste.) New England Laboratory Co. No. 18,667; Aug. 17; Gaz. vol. 217; p. 1053.
- "Burrill's Tooth Powder." (For Tooth-Powder.) New England Laboratory Co. No. 18,503; June 1; Gaz. vol. 215; p. 322.
- "Butter-Cream Bread." (For Bread.) R. L. Nafziger. No. 18,801; Oct. 12; Gaz. vol. 219; p. 585.
- "Butter-Nut Bread." (For Bread.) P. Schulze. No. 18,419; Apr. 27; Gaz. vol. 213; p. 1445.
- "Bye, Bye, Bed Bugs!" (For Bedbug, Roach, and Ant Killer.) L. Shapiro. No. 18,953; Dec. 28; Gaz. vol. 221; p. 1451.
- "Cabinet Brand." (For Vanilla Extract.) The Miller Manufacturing Company. No. 18,885; Nov. 30; Gaz. vol. 220; p. 1717.
- "Calciylates." (For Pulvolid Tablets.) The Drug Products Co. No. 18,777; Sept. 28; Gaz. vol. 218; p. 1154.
- "California Fruitstix." (For Confections Made from Fruits.) F. J. Cooper. No. 18,546; June 22; Gaz. vol. 215; p. 1261.
- "California Ripe Olives." (For Canned Olives.) Curtis Olive Corporation. No. 18,194; Jan. 19; Gaz. vol. 210; p. 1063.
- "Campbell's Electric Spark." (For a Cleaning Preparation.) E. C. Campbell. No. 18,755; Sept. 14; Gaz. vol. 218; p. 601.
- "Canary." (For Coffee.) Bernhard Brothers. No. 18,398; Apr. 27; Gaz. vol. 213; p. 1445.
- "Cane-Maple Syrup." (For Cane-Maple Syrup.) E. Normandin. No. 18,555; June 22; Gaz. vol. 215; p. 1261.
- "Carman's Logan Berry Juice." (For Unfermented and Non-Alcoholic Berry-Juice.) Carman & Featherston. No. 18,880; Nov. 30; Gaz. vol. 220; p. 1717.
- "Carter's Dyspepsia Remedy." (For a Dyspepsia Remedy.) E. W. Carter. No. 18,936; Dec. 28; Gaz. vol. 221; p. 1451.
- "Cascade." (For Apples.) J. A. Prentiss. No. 18,952; Dec. 28; Gaz. vol. 221; p. 1451.
- "Cash Premium Coffee, Money in Every Package." (For Coffee.) O. H. Baughman. No. 18,796; Oct. 12; Gaz. vol. 219; p. 585.
- "Cassinelli." (For Macaroni.) P. De Martini. No. 18,589; July 13; Gaz. vol. 216; p. 662.
- "Castle Bone." (For Featherbone.) Castlebone Company. No. 18,171; Jan. 12; Gaz. vol. 210; p. 715.
- "Cella's Chocolates." (For Chocolates.) C. Bianchi. No. 18,853; Nov. 16; Gaz. vol. 220; p. 1041.
- "Cereal Meal." (For a Cereal Health Food.) The Cereal Meal Co. No. 18,436; May 11; Gaz. vol. 214; p. 681.
- "Cherry Blossom Nainsook." (For Nainsook.) King Philip Mills. No. 18,373; Apr. 13; Gaz. vol. 213; p. 747.
- "Cherry Kola." (For a Beverage.) L. O. Fulcher. No. 18,756; Sept. 14; Gaz. vol. 218; p. 601.
- "Cherry Pepsin Tonic, A Compound." (For a Medicine Tonic.) J. A. Bokel. No. 18,422; May 4; Gaz. vol. 214; p. 342.
- "Chicago Booster." (For Cigar-Boxes.) J. R. Strauss. No. 18,851; Nov. 9; Gaz. vol. 220; p. 676.
- "Cigars." (For Cigars.) American Lithographic Company. No. 18,933; Dec. 28; Gaz. vol. 221; p. 1451.
- "Citolene." (For a Medical Application.) Koehler. No. 18,864; Nov. 16; Gaz. vol. 220; p. 1041.
- "City Pride." (For Stogies.) L. A. Mitchell. No. 18,605; July 20; Gaz. vol. 216; p. 1011.
- "Cl-O-Ve Life Savers, A Dainty Confection." (For Lozenges of Clove Flavor.) Mint Products Company. No. 18,485; May 25; Gaz. vol. 214; p. 1318.
- "Clean-O." (For a Cleaning Compound.) J. R. Milnes. No. 18,375; Apr. 13; Gaz. vol. 213; p. 747.
- "Close Fitting." (For Underwear.) Union Mills. No. 18,355; Apr. 6; Gaz. vol. 213; p. 359.
- "Clover." (For Garter-Elastic.) Smith Webbing Company. No. 18,772; Sept. 21; Gaz. vol. 218; p. 874.
- "Clover Belt." (For Cheese.) Clover Belt Cheese Company. No. 18,937; Dec. 28; Gaz. vol. 221; p. 1451.
- "Coffee." (For Coffees.) G. C. Morrison. Nos. 18,412-15; Apr. 27; Gaz. vol. 213; p. 1445.
- "Cole's Eureka." (For a Medicinal Preparation.) J. Cole. No. 18,664; Aug. 17; Gaz. vol. 217; p. 1053.
- "Collis' Famous Combination Ankle Supporter." (For Ankle-Supporters.) H. J. Collis. No. 18,506; June 8; Gaz. vol. 215; p. 665.
- "Columbine Brand." (For Cantaloups.) Crutchfield & Woolfolk. No. 18,776; Sept. 28; Gaz. vol. 218; p. 1154.
- "Comet." (For Silk, Cotton, and Linen Threads.) J. J. & A. Rosenberg. No. 18,869; Nov. 16; Gaz. vol. 220; p. 1041.
- "Community Flax." (For Stationery.) White & Wyckoff Mfg. Co. No. 18,461; May 11; Gaz. vol. 214; p. 681.
- "Compound Alvine Water Carbonated." (For Containers Filled with Carbonated Water.) The Alvine Water Co. No. 18,359; Apr. 13; Gaz. vol. 213; p. 747.
- "Comrade." (For Coffee.) J. A. Folger & Co. No. 18,906; Dec. 14; Gaz. vol. 221; p. 735.
- "Cooper Kenosha-Klosed-Krotch." (For Underwear.) Cooper Underwear Company. No. 18,202; Jan. 26; Gaz. vol. 210; p. 1395.
- "Coopers K-K-K Quality Since 1876." (For Underwear.) Cooper Underwear Company. Nos. 18,517-18; June 15; Gaz. vol. 215; p. 976.
- "Coopers Kenosha-Klosed-Krotch Union Suits." (For Underwear.) Cooper Underwear Company. No. 18,402; Apr. 27; Gaz. vol. 213; p. 1445.
- "Corby Cake." (For Lady-Cake.) Corby Baking Company. No. 18,322; Apr. 6; Gaz. vol. 213; p. 359.
- "Corby Cake." (For Plain Pound-Cake.) Corby Baking Company. No. 18,323; Apr. 6; Gaz. vol. 213; p. 359.
- "Corby Cake." (For Raisin-Cake.) Corby Baking Company. No. 18,324; Apr. 6; Gaz. vol. 213; p. 359.
- "Corby Cake." (For Chocolate Cake.) The Corby Baking Co. No. 18,474; May 25; Gaz. vol. 214; p. 1318.
- "Cotton Boll." (For Seeds.) A. Jouannet. No. 18,509; June 8; Gaz. vol. 215; p. 665.
- "Cotton Queen." (For Mattresses.) National Bedding Co. No. 18,502; June 1; Gaz. vol. 215; p. 322.
- "Country Made." (For Sugar-Cane Syrup.) Crockett & Weil. No. 18,910; Dec. 21; Gaz. vol. 221; p. 1037.
- "Coverall." (For an Automobile Work-Garment.) H. S. Z. Adler. No. 18,845; Nov. 9; Gaz. vol. 220; p. 676.
- "Cream Of Pearls." (For Face-Cream.) G. W. Richie. No. 18,280; Mar. 2; Gaz. vol. 212; p. 326.
- "Crow Ridge." (For Whisky.) Blue Ribbon Liquor Supply House. No. 18,237; Feb. 9; Gaz. vol. 211; p. 640.
- "Crown." (For a Hair-Tonic.) K. M. Hughes. No. 18,309; Mar. 16; Gaz. vol. 212; p. 1056.
- "Cry-No-More." (For Paste.) H. Rohm. No. 18,711; Aug. 24; Gaz. vol. 217; p. 1339.
- "Crystolon." (For Grinding-Wheels.) Norton Company. No. 18,791; Oct. 5; Gaz. vol. 219; p. 268.
- "Cuidado Con Las Imitaciones de Nuestras Latas." (For Paints.) The Charles H. Brown Paint Co. No. 18,860; Nov. 16; Gaz. vol. 220; p. 1041.
- "Cupid." (For Packages Containing Pork and Beans.) Oceana Canning Co. No. 18,346; Apr. 6; Gaz. vol. 213; p. 359.
- "Cyana." (For Cigars.) C. Loeffell. No. 18,698; Aug. 24; Gaz. vol. 217; p. 1339.
- "Cyclone Roofing." (For Composition Rolled Roofing.) The Edwards & Chamberlin Hardware Co. No. 18,441; May 11; Gaz. vol. 214; p. 681.
- "D D D." (For Cigars.) The K. D. Cigar Co. No. 18,582; July 6; Gaz. vol. 216; p. 326.
- "Daddy of 'Em All." (For Whisky.) J. Simon and Sons. No. 18,903; Dec. 14; Gaz. vol. 221; p. 735.
- "Dandy Candy-Bar." (For Candy.) W. W. Scofield. No. 18,718; Aug. 31; Gaz. vol. 217; p. 1659.
- "Dauscha's Combination." (For Cigars.) F. J. Dauscha. No. 18,208; Feb. 2; Gaz. vol. 211; p. 283.
- "De Bevoise Big 48 Bar." (For Confectionery Bars Made of Chocolate and Peanuts.) W. W. De Bevoise. No. 18,861; Nov. 16; Gaz. vol. 220; p. 1041.

Alphabetical list of labels—Continued.

- "De Luxe Linen Lawn Writing Paper." (For Writing-Paper.) Kalamazoo Stationery Co. No. 18,480; May 25; Gaz. vol. 214; p. 1318.
- "Deep-Rock." (For Petroleum Products.) Consumers Refining Company. No. 18,601; July 20; Gaz. vol. 216; p. 1011.
- "Delight Cleaner." (For a Scouring and Cleaning Preparation.) J. D. Jidas Bros. & Co. No. 18,497; June 1; Gaz. vol. 215; p. 322.
- "Delishus." (For Cake.) The Cabell Company. No. 18,400; Apr. 27; Gaz. vol. 213; p. 1445.
- "Diamond B." (For Cigars.) O. Paulson. No. 18,417; Apr. 27; Gaz. vol. 213; p. 1445.
- "Diamond Crisp Wafers." (For Flat Bread.) The Nuubson Baking Company. No. 18,556; June 22; Gaz. vol. 215; p. 1261.
- "Dianella." (For Razors.) J. Palazzolo. No. 18,670; Aug. 17; Gaz. vol. 217; p. 1053.
- "Dixie." (For Sail-Twine.) G. H. Davis, Jr. No. 18,327; Apr. 6; Gaz. vol. 213; p. 359.
- "Dixie B Line Coffee." (For Coffee.) Naas-Sanderson Co. No. 18,875; Nov. 23; Gaz. vol. 220; p. 1372.
- "Dixie Highway." (For Highway Markers or Signs.) Dixie Highway Association. No. 18,881; Nov. 30; Gaz. vol. 220; p. 1717.
- "Dixie Highway." (For Coffee.) W. H. Harrison. No. 18,945; Dec. 28; Gaz. vol. 221; p. 1451.
- "Dixie Highway Cigars." (For Cigars.) C. J. Sievers. No. 18,850; Nov. 9; Gaz. vol. 220; p. 676.
- "Domino Sugarmint." (For Peppermint Lozenges.) Domino Sugarmint Co. No. 18,520; June 15; Gaz. vol. 215; p. 976.
- "Dooley Brand Sweet Potatoes." (For Sweet Potatoes.) A. Lott. No. 18,591; July 13; Gaz. vol. 216; p. 662.
- "Doran's Gape Remedy." (For a Gape Remedy.) W. H. Doran. No. 18,729; Sept. 7; Gaz. vol. 218; p. 319.
- "Dose Record Label." (For Drugs.) Maltby & Schattenberg. No. 18,482; May 25; Gaz. vol. 214; p. 1318.
- "Double Cross." (For Coffee.) Dwinell-Wright Company. No. 18,766; Sept. 21; Gaz. vol. 218; p. 874.
- "Doz-fit Doz-Not-Rip." (For Overalls.) J. W. Turner. No. 18,677; Aug. 17; Gaz. vol. 217; p. 1053.
- "Dr. B. J. Kendall's Hair Tonic For Diseases of the Hair and Scalp." (For a Preparation for Diseases of the Hair and Scalp.) B. J. Kendall. No. 18,426; May 4; Gaz. vol. 214; p. 342.
- "Dr. Willson's Umatilla Indian Medicine." (For Medicine.) E. O. Willson. No. 18,760; Sept. 14; Gaz. vol. 218; p. 601.
- "Driolac." (For Wood Finish or Varnish.) Stewart Wood-Finish Co. No. 18,892; Nov. 30; Gaz. vol. 220; p. 1717.
- "Dunbar's Creole Gumbo." (For Creole Gumbo Soup.) Dunbar Molasses & Syrup Co. No. 18,820; Nov. 2; Gaz. vol. 220; p. 347.
- "Dull Kote." (For Paint.) The R. F. Johnston Paint Co. No. 18,902; Dec. 14; Gaz. vol. 221; p. 735.
- "Duluth Imperial." (For Flour.) Duluth-Superior Milling Co. No. 18,905; Dec. 14; Gaz. vol. 221; p. 735.
- "Durkee's Corn Starch." (For Corn-Starch.) E. R. Durkee & Co. No. 18,526; June 15; Gaz. vol. 215; p. 976.
- "Durkee's Mixed Bird Seed." (For Bird-Seed.) E. R. Durkee & Co. No. 18,525; June 15; Gaz. vol. 215; p. 976.
- "Durkee's Pearl Barley." (For Barley.) E. R. Durkee & Co. No. 18,522; June 15; Gaz. vol. 215; p. 976.
- "Durkee's Rice Flour." (For Flour.) E. R. Durkee & Co. No. 18,523; June 15; Gaz. vol. 215; p. 976.
- "Durkee's Tapioca." (For Tapioca.) E. R. Durkee & Co. No. 18,521; June 15; Gaz. vol. 215; p. 976.
- "Dutch Scene." (For Coffee.) Dwinell-Wright Co. No. 18,609; July 27; Gaz. vol. 216; p. 1317.
- "E-Z Made Dough-Nut Flour." (For Doughnut-Flour.) Brechet & Richter Company. No. 18,686; Aug. 24; Gaz. vol. 217; p. 1339.
- "E Z Shine." (For Stove and Nickel Polish.) Busy Bee Manufacturing Co. No. 18,273; Mar. 2; Gaz. vol. 212; p. 326.
- "Egaday." (For Poultry Feed.) South Texas Grain Company. No. 18,781; Sept. 28; Gaz. vol. 218; p. 1154.
- "Egyptian Cream." (For a Toilet Cream.) E. L. Clouthier. No. 18,816; Nov. 2; Gaz. vol. 220; p. 347.
- "El-Burto." (For Cigar-Boxes.) O. B. Abbott. No. 18,723; Sept. 7; Gaz. vol. 218; p. 319.
- "El Planco." (For Cigars.) R. Suarez & Co. No. 18,842; Nov. 2; Gaz. vol. 220; p. 347.
- "Elendi Brand Coffee." (For Coffee.) Lekas and Drivas. No. 18,553; June 22; Gaz. vol. 215; p. 1261.
- "Emmerol." (For Flour.) Emmer Products Company. No. 18,940; Dec. 28; Gaz. vol. 221; p. 1451.
- "Emerald-Glo." (For Eyeglasses.) Detroit Optical Mfg. Co. No. 18,519; June 15; Gaz. vol. 215; p. 976.
- "Escharol." (For a Medical Preparation.) Lato Pharmacal Company. No. 18,769; Sept. 21; Gaz. vol. 218; p. 874.
- "Eu-ca-lyp-tine." (For a Remedy.) P. S. Frick. No. 18,804; Oct. 19; Gaz. vol. 219; p. 928.
- "Eureka Stove Polish." (For Stove-Polish.) C. W. Aulls. No. 18,883; Apr. 20; Gaz. vol. 213; p. 1116.
- "Eureka Wiggler." (For a Bait.) Eureka Bait Co. No. 18,691; Aug. 24; Gaz. vol. 217; p. 1339.
- "Evans Light Cream-Table Ale." (For Ale.) C. H. Evans & Sons. No. 18,195; Jan. 19; Gaz. vol. 210; p. 1063.
- "Everts Silver Polish." (For Silver-Polish.) Wilkey Mfg. Co. No. 18,246; Feb. 9; Gaz. vol. 211; p. 640.
- "Ex-Corns." (For a Corn-Remover.) L. Shivanov. No. 18,489; May 25; Gaz. vol. 214; p. 1318.
- "Ex-Piles." (For an Ointment.) M. Weissmann. No. 18,282; Mar. 2; Gaz. vol. 212; p. 326.
- "Examination Blank." (For Blank Books.) M. Suzik. No. 18,211; Feb. 2; Gaz. vol. 211; p. 283.
- "Excellent." (For Sail-Twine.) G. H. Davis, Jr. No. 18,328; Apr. 6; Gaz. vol. 213; p. 359.
- "Eye Bath." (For Lotion for the Eyes.) D. A. Smith. No. 18,513; June 8; Gaz. vol. 215; p. 665.
- "Falfaine." (For Flavoring.) The Roland Co. No. 18,433; May 4; Gaz. vol. 214; p. 342.
- "Falls 'Fork-Dipped Chocolates.'" (For Chocolate Candy.) The Niagara Chocolate Company. No. 18,416; Apr. 27; Gaz. vol. 213; p. 1445.
- "Family Cambric." (For Cambric.) M. Smolowitz. No. 18,750; Sept. 7; Gaz. vol. 218; p. 319.
- "Fan Tan." (For a Popcorn Confection.) Lohaide Manufacturing Company. No. 18,179; Jan. 12; Gaz. vol. 210; p. 715.
- "Fan-Tan." (For Roasted Salted Peanuts.) Lohaide Manufacturing Company. No. 18,310; Mar. 16; Gaz. vol. 212; p. 1056.
- "Fan-Tan." (For Assorted Candies.) Lohaide Manufacturing Company. No. 18,315; Mar. 30; Gaz. vol. 212; p. 1688.
- "Farrell's Pure Maple Sap Syrup." (For Maple-Syrup.) Farrell & Co. No. 18,823; Nov. 2; Gaz. vol. 220; p. 347.
- "Favorite Breakfast Brand." (For Cane Maple Syrup.) Farrell & Co. No. 18,824; Nov. 2; Gaz. vol. 220; p. 347.
- "Felton's Crystal Spring Old Rum." (For Rum.) Felton & Son. No. 18,304; Mar. 16; Gaz. vol. 212; p. 1056.
- "Felton's Pure Crystal Spring Rum." (For Rum.) Felton & Son. No. 18,303; Mar. 16; Gaz. vol. 212; p. 1056.
- "Ferrandina." (For Olive-Oil.) F. Albano. No. 18,515; June 15; Gaz. vol. 215; p. 976.
- "Finch's Hair Lotion." (For a Hair-Lotion.) G. M. Finch. No. 18,847; Nov. 9; Gaz. vol. 220; p. 676.
- "First National Bank." (For Check-Books.) The First National Bank. No. 18,306; Mar. 16; Gaz. vol. 212; p. 1056.
- "Fjord." (For Coffee.) William McMurray & Company. No. 18,620; July 27; Gaz. vol. 216; p. 1317.
- "Flaxon Linen Fabric Writing Paper." (For Writing-Paper.) Kalamazoo Stationery Co. No. 18,479; May 25; Gaz. vol. 214; p. 1318.
- "Flower Violet Face Balm." (For a Face-Lotion.) S. Davis. No. 18,716; Aug. 31; Gaz. vol. 217; p. 1659.
- "Fontenelle." (For Coffee.) German-American Coffee Co. No. 18,444; May 11; Gaz. vol. 214; p. 681.
- "For Modern Improvement the 'Leader' leads them all." (For Injectors.) The Randle Machinery Company. No. 18,897; Dec. 7; Gaz. vol. 221; p. 349.
- "Ford Overcoat." (For Overcoats.) M. Golland. No. 18,665; Aug. 17; Gaz. vol. 217; p. 1053.
- "Ford Suit." (For Men's Suits.) M. Golland. No. 18,731; Sept. 7; Gaz. vol. 218; p. 319.
- "Forest City." (For Flavoring Extracts.) Baker Extract Company. No. 18,875; Nov. 30; Gaz. vol. 220; p. 1717.
- "Four Beauties." (For Whisky.) Goodman Liquor Company. No. 18,388; Apr. 20; Gaz. vol. 213; p. 1116.
- "Four Glories." (For Whisky.) Goodman Liquor Company. No. 18,289; Mar. 9; Gaz. vol. 212; p. 687.
- "Frank's Quality Meat-Treats." (For Meat Preparations.) L. Frank & Son Company. No. 18,767; Sept. 21; Gaz. vol. 218; p. 874.
- "French Beautifier—Look Young and Pretty." (For Toilet Preparations.) G. Lee. No. 18,920; Dec. 21; Gaz. vol. 221; p. 1037.
- "French Restaurant." (For Coffee and Chicory.) Importers Coffee Co. No. 18,196; Jan. 19; Gaz. vol. 210; p. 1063.
- "French's." (For Cement.) H. B. French. No. 18,366; Apr. 13; Gaz. vol. 213; p. 747.
- "Fruit Nectar." (For a Flavoring Compound.) Brechet & Richter Company. No. 18,762; Sept. 21; Gaz. vol. 218; p. 874.
- "Fruju." (For Fruit Beverages.) Olympia Brewing Company. No. 18,719; Aug. 31; Gaz. vol. 217; p. 1659.
- "Fruit Stix." (For Confections Made from Fruits.) F. J. Cooper. No. 18,438; May 11; Gaz. vol. 214; p. 681.
- "G Washington's." (For Prepared Tea.) G. Washington Coffee Refining Co. No. 18,753; Sept. 7; Gaz. vol. 218; p. 319.
- "G-R-S Orange XXXX made from Berkshire's Famous Springs." (For an Orange-Flavored Drink.) F. M. Osteyee. No. 18,297; Mar. 9; Gaz. vol. 212; p. 687.
- "Gantemo." (For Cigars.) Friedman Bros. No. 18,343; Dec. 28; Gaz. vol. 221; p. 1451.

- "Gates Pioneer." (For Coffee.) Grocers Coffee Co. No. 18,944; Dec. 28; Gaz. vol. 221; p. 1451.
- "Goddard White Weaves—Goddard for Goodness." (For Textile Fabrics.) J. W. Goddard & Sons. No. 18,917; Dec. 21; Gaz. vol. 221; p. 1037.
- "Gold Cross Brand." (For Absorbent Cotton.) Seabury & Johnson. No. 18,749; Sept. 7; Gaz. vol. 218; p. 319.
- "Gold Label." (For Beer.) The Walter Brewing Co. No. 18,558; June 22; Gaz. vol. 215; p. 1261.
- "Gold Seal." (For Cigars.) Benish & Meyer. No. 18,397; Apr. 27; Gaz. vol. 213; p. 1445.
- "Golden Egg." (For Poultry Remedies and Poultry Feeds.) H. Albeus. No. 18,659; Aug. 17; Gaz. vol. 217; p. 1053.
- "Golden Fruit." (For Chewing-Gum.) Zulu Manufacturing Company. No. 18,464; May 11; Gaz. vol. 214; p. 681.
- "Golden (H. A. J.) Crown Ginger Ale." (For Ginger-Ale.) Lynchburg Bottling Corp. No. 18,180; Jan. 12; Gaz. vol. 210; p. 715.
- "Golden Rod Syrup." (For Cane and Maple Syrup.) Southwestern Syrup Company. No. 18,721; Aug. 31; Gaz. vol. 217; p. 1659.
- "Golden Sugar Corn." (For Sweet Corn.) J. W. Evans. No. 18,590; July 13; Gaz. vol. 216; p. 662.
- "Golo Camel Hair Slippers." (For Slippers.) M. Loewenberg. No. 18,699; Aug. 24; Gaz. vol. 217; p. 1339.
- "Good Nightie." (For Nainsook.) King Philip Mills. No. 18,481; May 25; Gaz. vol. 214; p. 1318.
- "Good Scout." (For a Confection.) Dirnberger Pop Corn Co. No. 18,787; Oct. 5; Gaz. vol. 219; p. 268.
- "Goodway's Sunburn Lotion." (For a Liquid Lotion Having Certain Medicinal Properties.) J. A. Goodway. No. 18,530; June 15; Gaz. vol. 215; p. 976.
- "Goody Two-shoes." (For Stationery.) White & Wyck-off Mfg. Co. No. 18,462; May 11; Gaz. vol. 214; p. 681.
- "Granulated." (For Coffee.) Heyniger, Pitt & Co. No. 18,288; Mar. 9; Gaz. vol. 212; p. 687.
- "Gretchen." (For Coffee.) William McMurray Company. No. 18,618; July 27; Gaz. vol. 216; p. 1317.
- "Grofina Hair Tonic." (For a Hair-Tonic.) Venus Company. No. 18,593; July 13; Gaz. vol. 216; p. 662.
- "Guthridge Indore Sports Base-Ball and Golf." (For Games.) F. G. Guthridge. No. 18,883; Nov. 30; Gaz. vol. 220; p. 1717.
- "H. & G." (For Cigars.) Huntoon & Gorham Co. No. 18,613; July 27; Gaz. vol. 216; p. 1317.
- "H. G. Prince & Co." (For Canned White Cherries.) H. G. Prince & Co. No. 18,840; Nov. 2; Gaz. vol. 220; p. 347.
- "Haimer's." (For Use on Boxes or Packages of Cigars.) L. Haimer. No. 18,335; Apr. 6; Gaz. vol. 213; p. 359.
- "Hairatus." (For a Hair-Tonic.) P. Herbst. No. 18,695; Aug. 24; Gaz. vol. 217; p. 1339.
- "Hammeschlag's Waxed Papers." (For Waxed Papers.) The Hammeschlag Manufacturing Company. No. 18,571; June 29; Gaz. vol. 215; p. 1497.
- "Hanco Brand" Limburgerette." (For Cheese.) The Henri Hanause Co. No. 18,256; Feb. 23; Gaz. vol. 211; p. 1262.
- "Hand Made 5 Cents." (For Cigars.) Central Cigar Box Company. No. 18,663; Aug. 17; Gaz. vol. 217; p. 1053.
- "Hanford's Celery Cure." (For Medicinal Preparations.) G. C. Hanford Mfg. Co. No. 18,862; Nov. 16; Gaz. vol. 220; p. 1041.
- "Hanford's Celery Cure." (For Medicinal Preparations.) G. C. Hanford Mfg. Co. No. 18,873; Nov. 23; Gaz. vol. 220; p. 1372.
- "Hauck's Bock Beer." (For Beer.) The John Hauck Brewing Company. No. 18,308; Mar. 16; Gaz. vol. 212; p. 1056.
- "Hauck's Green Label." (For Near Beer.) C. J. Hauck. No. 18,581; July 6; Gaz. vol. 216; p. 326.
- "Havanol." (For Tobacco-Flavor.) E. E. Sandbach. No. 18,240; Feb. 9; Gaz. vol. 211; p. 640.
- "Henderson Herb Tablets, Indian Remedy." (For a Medicinal Preparation.) Henderson Herb Company. No. 18,827; Nov. 2; Gaz. vol. 220; p. 347.
- "Henley." (For Garter-Elastic.) Smith Webbing Company. No. 18,773; Sept. 21; Gaz. vol. 218; p. 874.
- "Hercules Talking Machine." (For Talking-Machines.) The Hercules Talking Machine Co. No. 18,828; Nov. 2; Gaz. vol. 220; p. 347.
- "Hershey's." (For Chewing-Gum.) Hershey Chocolate Company. No. 18,611; July 27; Gaz. vol. 216; p. 1317.
- "Hewett's Herbal Remedies." (For Medicines.) C. F. Hewett. No. 18,369; Apr. 13; Gaz. vol. 213; p. 747.
- "Hi-Gloss Wood Polish." (For Wood-Polish.) Hi-Gloss Mfg. Co. No. 18,778; Sept. 28; Gaz. vol. 218; p. 1154.
- "Hillside." (For Coffee.) J. A. Folger & Company. No. 18,332; Apr. 6; Gaz. vol. 213; p. 359.
- "Hillside." (For Tea.) J. A. Folger & Co. No. 18,386; Apr. 20; Gaz. vol. 213; p. 1116.
- "Hoarty's." (For a Medicinal Preparation.) P. Hoarty. No. 18,612; July 27; Gaz. vol. 216; p. 1317.
- "Home Dry Cleaner." (For a Cleaning Compound.) H. B. Hutchens and E. M. Graves. No. 18,788; Oct. 5; Gaz. vol. 219; p. 268.
- "Home-Wood." (For Coffee.) C. D. Kenny Co. No. 18,372; Apr. 13; Gaz. vol. 213; p. 747.
- "Hopewell Orchards." (For Fruits.) H. E. Eckstein. No. 18,439; May 11; Gaz. vol. 214; p. 681.
- "Hopson's Mexican Style Pecan Candy." (For Candy.) The A. B. C. Candy Co. No. 18,803; Oct. 19; Gaz. vol. 219; p. 928.
- "Horlick's Biscuit." (For Biscuit.) A. A. Horlick. No. 18,805; Oct. 19; Gaz. vol. 219; p. 928.
- "Horlick's Maltcoat." (For Maltcoat Food.) Horlick Maltcoat Biscuit Co. No. 18,406; Apr. 27; Gaz. vol. 213; p. 1445.
- "Horlick's Oatin Milk." (For Oatin Milk.) A. Horlick. No. 18,405; Apr. 27; Gaz. vol. 213; p. 1445.
- "Hotel Paso del Norte." (For Blend Roasted Coffee.) The Western Coffee Company. No. 18,681; Aug. 17; Gaz. vol. 217; p. 1053.
- "Hotel Utah brand." (For Coffee.) Matson Coffee Co. No. 18,483; May 25; Gaz. vol. 214; p. 1318.
- "Hours Saved." (For a Washing Preparation.) Hours Saved Co. No. 18,733; Sept. 7; Gaz. vol. 218; p. 319.
- "Household Package." (For Abrasive Paper and Cloth.) Baeder, Adamson & Co. No. 18,362; Apr. 13; Gaz. vol. 213; p. 747.
- "Huff's Hoarhound and Honey Drops." (For a Confection.) The H. H. Huff Mfg. Co. No. 18,808; Oct. 26; Gaz. vol. 219; p. 1236.
- "Hughes's Boiler Cleaner." (For a Boiler-Cleaner.) Gunther & Hughes. No. 18,610; July 27; Gaz. vol. 216; p. 1317.
- "Hy-GN-iC Napkins." (For Paper Napkins.) Japanese Tissue Mills. No. 18,447; May 11; Gaz. vol. 214; p. 681.
- "Hymette Greek Honey." (For Honey.) Lekas and Drivas. No. 18,552; June 22; Gaz. vol. 215; p. 1261.
- "I. T. S." (For Rubber Heels.) The I. T. S. Rubber Company. No. 18,642; Aug. 3; Gaz. vol. 217; p. 338.
- "Ice-Land Sea-Foam Hair Tonic." (For a Hair-Tonic.) F. Soele. No. 18,299; Mar. 9; Gaz. vol. 212; p. 687.
- "Iccaciatore Brand Gragnano Style Macaroni." (For Macaroni.) R. Martorelli. No. 18,836; Nov. 2; Gaz. vol. 220; p. 347.
- "Imperial." (For Flavoring Extracts.) Baker Extract Co. No. 18,879; Nov. 30; Gaz. vol. 220; p. 1717.
- "Imperial Art Embroidery Package." (For Art Embroidery.) F. E. Smith. No. 18,222; Feb. 2; Gaz. vol. 211; p. 283.
- "Imperial Crown." (For Cigarettes.) Rosedor Cigarette Co. No. 18,219; Feb. 2; Gaz. vol. 211; p. 283.
- "Imperial Star & Crescent Selected Full Cream Cheese." (For Cheese.) Davis Bros. Cheese Co. No. 18,690; Aug. 24; Gaz. vol. 217; p. 1339.
- "In-B-Tween." (For Cigars.) Kraus & Co. No. 18,259; Feb. 23; Gaz. vol. 211; p. 1262.
- "Invisible Starch." (For Starch.) E. R. Durkee & Co. No. 18,524; June 15; Gaz. vol. 215; p. 976.
- "Iro-Tone." (For Medicine.) J. F. Ryan. No. 18,188; Jan. 12; Gaz. vol. 210; p. 715.
- "Iron and Alum Mass Capsules." (For a Medicinal Preparation.) Piedmont-Bedford Springs Company. No. 18,654; Aug. 3; Gaz. vol. 217; p. 338.
- "Iron Cross." (For Flour.) B. Bleul. No. 18,319; Apr. 6; Gaz. vol. 213; p. 359.
- "Italian Produce Tomatoes." (For Peeled Tomatoes.) Lenci Bros. No. 18,834; Nov. 2; Gaz. vol. 220; p. 347.
- "Ivanoff." (For Cigarettes.) Rosedor Cigarette Co. No. 18,868; Nov. 16; Gaz. vol. 220; p. 1041.
- "Ivory Brand." (For Varnishes.) E. Van Hoogstrate. No. 18,390; Apr. 20; Gaz. vol. 213; p. 1116.
- "Ivory Brand." (For Paints.) E. Van Hoogstrate. No. 18,391; Apr. 20; Gaz. vol. 213; p. 1116.
- "Jackson Square." (For Coffee and Chicory Compound.) Importers Coffee Co. No. 18,768; Sept. 21; Gaz. vol. 218; p. 874.
- "Janet Brand." (For Strawberries.) Louisiana Strawberry Distributing Company. No. 18,807; Oct. 19; Gaz. vol. 219; p. 928.
- "Japana Furniture Polish." (For Furniture-Polish.) M. H. Stokes. No. 18,780; Sept. 28; Gaz. vol. 218; p. 1154.
- "Jay Dees Evangeline Chocolates, Bonbons, Caramels." (For Chocolates, Bonbons, and Caramels.) J. D. Williams. No. 18,233; Feb. 2; Gaz. vol. 211; p. 283.
- "Jersey Crackers." (For Crackers.) Taggart Baking Company. No. 18,229; Feb. 2; Gaz. vol. 211; p. 283.
- "Jessie Kream." (For a Medicinal Cream.) California Chemical Co. No. 18,579; July 6; Gaz. vol. 216; p. 326.
- "Jitney." (For Shoe-Polish.) Archbold Manufacturing Corporation. No. 18,608; July 27; Gaz. vol. 216; p. 1317.
- "Jitney." (For Cigars.) Squires & Garner. No. 18,380; Apr. 13; Gaz. vol. 213; p. 747.
- "Jitney Brand." (For Automobile-Tires.) Germantown Almegum Mfg. Co. No. 18,692; Aug. 24; Gaz. vol. 217; p. 1339.
- "Jitney, Fizz." (For Beverages.) J. S. Crow. No. 18,454; May 11; Gaz. vol. 214; p. 681.

Alphabetical list of labels—Continued.

- "Jitney Jems." (For Popcorn.) W. C. Moore. No. 18,924; Dec. 21; Gaz. vol. 221; p. 1037.
- "John Brand." (For Strawberries.) Louisiana Strawberry Distributing Company. No. 18,835; Nov. 2; Gaz. vol. 220; p. 347.
- "John Jr." (For Cigars.) J. Foege & Son. No. 18,639; Aug. 3; Gaz. vol. 217; p. 338.
- "Joy." (For a Beverage.) H. R. Myers. No. 18,487; May 25; Gaz. vol. 214; p. 1318.
- "Joy-Sip Coffee." (For Coffee.) Naas-Sanderson Co. No. 18,874; Nov. 23; Gaz. vol. 220; p. 1372.
- "Jumbo Roasted Peanuts." (For Peanuts.) Blanke-Wenneker Candy Company. No. 18,724; Sept. 7; Gaz. vol. 218; p. 319.
- "Jumbo Wonders." (For Confectionery.) W. W. De Bevoise. No. 18,253; Feb. 23; Gaz. vol. 211; p. 1262.
- "Justamere Farm." (For Cider.) B. C. Buxton. No. 18,193; Jan. 19; Gaz. vol. 210; p. 1063.
- "K-O." (For a Hog-Cholera Compound.) S. J. Smith. No. 18,557; June 22; Gaz. vol. 215; p. 1261.
- "Kaffee Hag." (For Coffee.) Kaffee Hag Corporation. No. 18,370; Apr. 13; Gaz. vol. 213; p. 747.
- "Kaffee Klatsch." (For Coffee.) William McMurray & Company. No. 18,623; July 27; Gaz. vol. 216; p. 1317.
- "Kalak." (For Artificially-Prepared Medicinal Water.) Kalak Water Company of New York. No. 18,736; Sept. 7; Gaz. vol. 218; p. 319.
- "Kalak Water." (For Artificially-Prepared Medicinal Water.) Kalak Water Company of New York. No. 18,735; Sept. 7; Gaz. vol. 218; p. 319.
- "Kantleak." (For a Roof-Cement.) The R. F. Johnston Paint Co. No. 18,884; Nov. 30; Gaz. vol. 220; p. 1717.
- "Kara." (For Depilation.) Murrey & Ridgeway. No. 18,809; Oct. 26; Gaz. vol. 219; p. 1236.
- "Karina." (For Cigars.) Franklin MacVeagh & Company. No. 18,790; Oct. 5; Gaz. vol. 219; p. 268.
- "Karine." (For Medicine.) Santo Pagano. No. 18,187; Jan. 12; Gaz. vol. 210; p. 715.
- "Keen River." (For Whisky.) Blue Ribbon Liquor Supply House. No. 18,205; Feb. 2; Gaz. vol. 211; p. 283.
- "Kell-Bell Brand." (For Neufchâtel Cheese.) H. H. Covitz. No. 18,325; Apr. 6; Gaz. vol. 213; p. 359.
- "Kellogg's Bran." (For Bran.) The Kellogg Food Company. No. 18,833; Nov. 2; Gaz. vol. 220; p. 347.
- "Kellogg's Drinket." (For a Beverage.) Kellogg Toasted Corn Flake Company. No. 18,948; Dec. 28; Gaz. vol. 221; p. 1451.
- "Kellogg's Toasted Bran Flakes." (For a Bran Food.) Kellogg Toasted Corn Flake Company. No. 18,947; Dec. 28; Gaz. vol. 221; p. 1451.
- "Kenosha-Klosed-Krotch." (For Underwear.) Cooper Underwear Company. No. 18,201; Jan. 26; Gaz. vol. 210; p. 1395.
- "Kenosha-Klosed-Krotch." (For Underwear.) Cooper Underwear Company. No. 18,401; Apr. 27; Gaz. vol. 213; p. 1445.
- "Kenosha-Klosed-Krotch Union Suits." (For Underwear.) Cooper Underwear Company. No. 18,203; Jan. 26; Gaz. vol. 210; p. 1395.
- "Kentucky Carlsbad Water." (For Water.) The Kentucky Carlsbad Springs Co. No. 18,291; Mar. 9; Gaz. vol. 212; p. 687.
- "Kernola." (The Food Drink.) (For a Coffee Substitute.) Kernola Cereal Co. No. 18,551; June 22; Gaz. vol. 215; p. 1261.
- "Kewpie Blankies." (For Doll-Blankets.) Stanton Brothers. No. 18,352; Apr. 6; Gaz. vol. 213; p. 359.
- "Klamensi Spring Water." (For Spring-Water.) National Table Waters Co. No. 18,450; May 11; Gaz. vol. 214; p. 681.
- "Killarney." (For Ginger-Ale.) Foote & Jenks. No. 18,942; Dec. 28; Gaz. vol. 221; p. 1451.
- "King Kool Klothes." (For Clothing.) J. Schoeneman. No. 18,674; Aug. 17; Gaz. vol. 217; p. 1053.
- "King Move-eas." (For Laxative and Cathartic Tablets.) Orchard Chemical Co. No. 18,848; Nov. 9; Gaz. vol. 220; p. 676.
- "King of Soaps, A Mineral Soap, Natures Own Crystals Pure and Harmless." (For Soap.) Doutmaco Selling Associates Incorporated. No. 18,819; Nov. 2; Gaz. vol. 220; p. 347.
- "King Richard's." (For Cigars.) The Richard A. Keller Cigar Co. No. 18,371; Apr. 13; Gaz. vol. 213; p. 747.
- "Kingston." (For Peaches.) Sears, Roebuck and Co. No. 18,379; Apr. 13; Gaz. vol. 213; p. 747.
- "Kir-Mer." (For a Cleaner.) M. E. Kirchuebel. No. 18,789; Oct. 5; Gaz. vol. 219; p. 268.
- "Kleenatone." (For a Cleansing Agent.) Central Chemical Company. No. 18,661; Aug. 17; Gaz. vol. 217; p. 1053.
- "Kleinit." (For Cleaners.) R. T. Davis. No. 18,298; Mar. 9; Gaz. vol. 212; p. 687.
- "Kleenup—The Perfect Cleanser." (For a Cleanser.) J. Sap & Co. No. 18,418; Apr. 27; Gaz. vol. 213; p. 1445.
- "Klenzglas Kloth." (For a Glass-Cleaning Cloth.) Doutmaco Selling Associates Incorporated. No. 18,274; Mar. 2; Gaz. vol. 212; p. 326.
- "Knife and Fork Brand Metal Polish." (For a Metal Polish.) Standard Polish Company. No. 18,504; June 1; Gaz. vol. 215; p. 322.
- "Know Your Flour." (For Flour.) Indiana Millers Association. No. 18,779; Sept. 28; Gaz. vol. 218; p. 1154.
- "L de V." (For Cologne.) F. B. Lackland. No. 18,213; Feb. 2; Gaz. vol. 211; p. 283.
- "La Casera." (For Cigars.) Kohl & Herman. No. 18,799; Oct. 12; Gaz. vol. 219; p. 585.
- "La Dellah Liquid Cold Cream." (For Cold-Cream.) L. A. Webber. No. 18,872; Nov. 16; Gaz. vol. 220; p. 1041.
- "La Flor De Benton, U. S. Senator from Missouri, 1821 to 1851, Havana and Broad Leaf Cigar." (For Cigars.) McConnell & Vesper Cigar Company. No. 18,922; Dec. 21; Gaz. vol. 221; p. 1037.
- "Lacède Bouquet." (For Cigars.) F. J. Dauscha. No. 18,384; Apr. 20; Gaz. vol. 213; p. 1116.
- "Lacquershire Metal Polish." (For Metal-Polish.) E. H. Wiersching. No. 18,463; May 11; Gaz. vol. 214; p. 681.
- "Lactic Dry Ginger Ale." (For Ginger-Ale.) McBride, Earl & Pollard. No. 18,701; Aug. 24; Gaz. vol. 217; p. 1339.
- "Lasses Kisses." (For Candy.) Smith Brothers. No. 18,575; June 29; Gaz. vol. 215; p. 1497.
- "Lastingloss." (For Furniture-Polish.) The Lastingloss Company. No. 18,263; Feb. 23; Gaz. vol. 211; p. 1262.
- "Lax-Ola, The Key To Health." (For Laxative Tablets.) International Pharmaceutical Company. No. 18,496; June 1; Gaz. vol. 215; p. 322.
- "Laxton Constitution Builder For Men." (For Medicine.) J. W. R. Laxton. No. 18,277; Mar. 2; Gaz. vol. 212; p. 326.
- "Laxton Constitution Builder for Women." (For Medicine.) J. W. R. Laxton. No. 18,278; Mar. 2; Gaz. vol. 212; p. 326.
- "Le Secret Gaby Deslys." (For Cosmetics.) The Gaby Deslys Distributing Company. No. 18,603; July 20; Gaz. vol. 216; p. 1011.
- "Leadoil." (For Mediums for Thinning Paste Pigments.) Leadoil Company. No. 18,806; Oct. 19; Gaz. vol. 219; p. 928.
- "Lee's Save The Baby." (For a Medicinal Preparation.) W. W. Lee & Co. No. 18,177; Jan. 12; Gaz. vol. 210; p. 715.
- "Leif Erickson." (For Coffee.) William McMurray & Company. No. 18,621; July 27; Gaz. vol. 216; p. 1317.
- "Liggett Brand Cherriade." (For Cherriade Flavor.) F. L. Daggatt Company. No. 18,726; Sept. 7; Gaz. vol. 218; p. 319.
- "Lightning Puncture Cure." (For Puncture Cure.) C. W. Comegys. No. 18,207; Feb. 2; Gaz. vol. 211; p. 283.
- "Lincoln Highway Sign." (For Signs.) The Lincoln Highway Association. No. 18,374; Apr. 13; Gaz. vol. 213; p. 747.
- "Lincoln Ointment." (For Ointment.) W. A. Lincoln. No. 18,758; Sept. 14; Gaz. vol. 218; p. 601.
- "Linde Oxygen." (For Oxygen Gas.) The Linde Air Products Company. No. 18,178; Jan. 12; Gaz. vol. 210; p. 715.
- "Lindner's Honey Wheat Bread." (For Bread.) G. F. Lindner. No. 18,645; Aug. 3; Gaz. vol. 217; p. 338.
- "Linoleum Oil Soap." (For Soaps.) Fitzpatrick Bros. No. 18,529; June 15; Gaz. vol. 215; p. 976.
- "Lipton's Best Cocoa." (For Cocoa.) T. J. Lipton. No. 18,647; Aug. 3; Gaz. vol. 217; p. 338.
- "Lipton's Tea." (For Tea.) T. J. Lipton. No. 18,646; Aug. 3; Gaz. vol. 217; p. 338.
- "Lipton's Tea." (For Tea.) T. J. Lipton. Nos. 18,648-50; Aug. 3; Gaz. vol. 217; p. 338.
- "Lipton's Yellow Label Coffee." (For Coffee.) T. J. Lipton. No. 18,651; Aug. 3; Gaz. vol. 217; p. 338.
- "Liqueur Supérieure." (For Liqueurs.) W. Michelson. No. 18,343; Apr. 6; Gaz. vol. 213; p. 359.
- "Liquid Horn." (For Varnish.) P. R. Wagner. No. 18,356; Apr. 6; Gaz. vol. 213; p. 359.
- "Little River Whiskey." (For Whisky.) Aycock & Co. No. 18,684; Aug. 24; Gaz. vol. 217; p. 1339.
- "Little Shabbona." (For Cigars.) J. Black. No. 18,168; Jan. 12; Gaz. vol. 210; p. 715.
- "Lomauro's Universal Salve." (For a Salve.) F. R. Lomauro. No. 18,292; Mar. 9; Gaz. vol. 212; p. 687.
- "Lotz's Shankless Ham." (For Ham.) F. W. Lotz. No. 18,408; Apr. 27; Gaz. vol. 213; p. 1445.
- "Louisiana Commerce." (For Cigars.) J. M. Ransom. No. 18,634; July 27; Gaz. vol. 216; p. 1317.
- "Lusterall." (For Furniture-Polish or Varnish-Remover.) H. M. Singleton. No. 18,512; June 8; Gaz. vol. 215; p. 665.
- "Lusterwool." (For Cleaning, Scouring, and Polishing Material.) H. S. Williams. No. 18,232; Feb. 2; Gaz. vol. 211; p. 283.
- "Lyman H. Davis Rheumatic Liniment." (For Rheumatic Liniment.) L. H. Davis. No. 18,728; Sept. 7; Gaz. vol. 218; p. 319.
- "M-B." (For Solder.) M. Bazzanella. No. 18,318; Apr. 6; Gaz. vol. 213; p. 359.

- "Mable Wonder Salve." (For Salve.) L. Mable. No. 18,181; Jan. 12; Gaz. vol. 210; p. 715.
- "Mac'ko Snaps." (For Cakes.) The Grocers' Biscuit Company. No. 18,641; Aug. 3; Gaz. vol. 217; p. 338.
- "Macaroni." (For Macaroni.) The Buckley Bakery & Macaroni Company. No. 18,545; June 22; Gaz. vol. 215; p. 1261.
- "Made Last Night." (For Candy.) Jacobs Candy Company. No. 18,734; Sept. 7; Gaz. vol. 218; p. 319.
- "Magyar Honvéd Huszár." (For Tea Rum.) F. Schwarz. No. 18,889; Nov. 30; Gaz. vol. 220; p. 1717.
- "Maltina, The White Ribbon Tonic." (For a Malt Tonic.) White Ribbon Beer Company. No. 18,895; Nov. 30; Gaz. vol. 220; p. 1717.
- "Mama Doll." (For Dolls.) L. V. Aronson. No. 18,167; Jan. 12; Gaz. vol. 210; p. 715.
- "Manuel Rodriguez." (For Cigars.) M. Rodriguez. No. 18,350; Apr. 6; Gaz. vol. 213; p. 359.
- "Marcelas Juniper Salve." (For Salve.) The Marcelas Juniper Company. No. 18,554; June 22; Gaz. vol. 215; p. 1261.
- "Marcella." (For Tea.) Alexander Sheppard & Sons. No. 18,957; Dec. 28; Gaz. vol. 221; p. 1451.
- "Marcella." (For Coffee.) Alexander Sheppard & Sons. No. 18,959; Dec. 28; Gaz. vol. 221; p. 1451.
- "Marcon-Sloper Refilling Composition." (For a Refilling Composition.) W. S. Fisher. No. 18,580; July 6; Gaz. vol. 216; p. 326.
- "Marian's Burnt Olive Oil Candy." (For a Medicinal Preparation.) M. M. MacGrath. No. 18,293; Mar. 9; Gaz. vol. 212; p. 687.
- "Mariani's Fresno Brand." (For Raisins.) Fresno Raisin & Fruit Products Co. No. 18,210; Feb. 2; Gaz. vol. 211; p. 283.
- "Marshels Intense Black Ink." (For Ink.) B. M. Marshel. No. 18,842; Sept. 7; Gaz. vol. 218; p. 319.
- "Marquise." (For Writing-Paper.) Interstate Tablet Co. No. 18,946; Dec. 28; Gaz. vol. 221; p. 1451.
- "Marvel." (For Tonic-Containers.) Brown & Company. No. 18,688; Aug. 24; Gaz. vol. 217; p. 1339.
- "Master Brand Flux." (For Flux.) Master Roofers Association of Chicago. No. 18,538; June 15; Gaz. vol. 215; p. 976.
- "Master Brand Pitch." (For Pitch.) Master Roofers Association of Chicago. No. 18,536; June 15; Gaz. vol. 215; p. 976.
- "Master Brand Tarred Felt." (For Tarred Felt.) Master Roofers Association of Chicago. No. 18,537; June 15; Gaz. vol. 215; p. 976.
- "Matchless." (For Condensed Tomatoes.) The Acme Preserve Co. No. 18,908; Dec. 21; Gaz. vol. 221; p. 1037.
- "Mayco Fabrics." (For Fabrics.) T. Mayer & Company. No. 18,615; July 27; Gaz. vol. 216; p. 1317.
- "McBrady's Brown Baby Soap." (For a Toilet Soap.) J. E. McBrady. No. 18,183; Jan. 12; Gaz. vol. 210; p. 715.
- "McMahon's Diamalt Health Bread." (For Bread.) McMahon Bros. No. 18,800; Oct. 12; Gaz. vol. 219; p. 585.
- "Medal Bond." (For Cigars.) The Moehle Lithographic Company. No. 18,500; June 1; Gaz. vol. 215; p. 322.
- "Medécine Horke Vino." (For a Bitter Wine.) Weiss & Rauscher. No. 18,962; Dec. 28; Gaz. vol. 221; p. 1451.
- "Menthol-Eaze." (For Salve.) J. Mack Mahon. No. 18,604; July 20; Gaz. vol. 216; p. 1011.
- "Mermaid Supreme." (For Canned Tuna.) Coast Fishing Company. No. 18,763; Sept. 21; Gaz. vol. 218; p. 874.
- "Merry Moment Cocktail." (For Cocktails.) Rheinstrom Bros. No. 18,349; Apr. 6; Gaz. vol. 213; p. 359.
- "Meruco." (For Friction-Tape.) The Mechanical Rubber Company. No. 18,264; Feb. 23; Gaz. vol. 211; p. 1262.
- "Metropolitan Macaroni." (For Macaroni.) Metropolitan Macaroni Manufacturing Co. No. 18,923; Dec. 21; Gaz. vol. 221; p. 1037.
- "Mex cane." (For Table-Syrup.) C. E. Smith & Co. No. 18,588; July 6; Gaz. vol. 216; p. 326.
- "Mikado." (For Table Sauce.) F. Y. Hashiba. No. 18,446; May 11; Gaz. vol. 214; p. 681.
- "Min'a Biscuit." (For Crackers.) The Grocers' Biscuit Company. No. 18,640; Aug. 3; Gaz. vol. 217; p. 338.
- "Mint-Malt." (For a Syrupy Liquid Containing Malt and Mint.) Mint-Malt Corporation. No. 18,410; Apr. 27; Gaz. vol. 213; p. 1445.
- "Mint-O-Green Life Savers, A Dainty Confection." (For Lozenges of Wintergreen Flavor.) Mint Products Company. No. 18,486; May 25; Gaz. vol. 214; p. 1318.
- "Mir-Tile White Enamel." (For White Enamel.) McCaffrey-Hewitt Paint Co. No. 18,573; June 29; Gaz. vol. 215; p. 1497.
- "Mission Punch." (For Punch.) W. H. G. Buck. No. 18,491; June 1; Gaz. vol. 215; p. 322.
- "Mme. Coburn's Genuine Southern Mint Julep." (For Mint Julep.) R. W. Coburn. No. 18,765; Sept. 21; Gaz. vol. 218; p. 874.
- "Mme. Coburn's Maryland Mint Cordial." (For Cordial.) R. W. Coburn. No. 18,764; Sept. 21; Gaz. vol. 218; p. 874.
- "Moffatt's Pure California Honey." (For Honey.) J. Moffatt. No. 18,411; Apr. 27; Gaz. vol. 213; p. 1445.
- "MontaguMello." (For Confectionery Coating.) J. C. Montague. No. 18,468; May 18; Gaz. vol. 214; p. 1024.
- "Montclair." (For Baking-Powder.) Sears, Roebuck and Co. No. 18,378; Apr. 13; Gaz. vol. 213; p. 747.
- "Moose Heart." (For Cigars.) E. B. Horner. No. 18,495; June 1; Gaz. vol. 215; p. 322.
- "Morning Sip Dry Roast." (For Coffee.) Alexander Sheppard & Sons. No. 18,954; Dec. 28; Gaz. vol. 221; p. 1451.
- "Mountain Home Brand." (For Coffee.) Matson Coffee Company. No. 18,428; May 4; Gaz. vol. 214; p. 342.
- "Mr. Dooley Brand Sweet Potatoes." (For Canned Sweet Potatoes.) A. Lott. No. 18,238; Feb. 9; Gaz. vol. 211; p. 640.
- "Mr. Slippery." (For Lubricating Oils and Greases.) Advance Grease & Chemical Co. No. 18,164; Jan. 12; Gaz. vol. 210; p. 715.
- "Mt. Vernon." (For Evaporated Milk.) Mt. Vernon Cream Co. No. 18,312; Mar. 16; Gaz. vol. 212; p. 1056.
- "Muenchener Kind'l Bräu." (For Beer.) Regenfuss Brewing Co. No. 18,314; Mar. 23; Gaz. vol. 212; p. 1355.
- "Muscadine Punch." (For a Beverage.) Green & Green. No. 18,549; June 22; Gaz. vol. 215; p. 1261.
- "Musterking." (For a Medicinal Preparation.) A. W. Peabody. No. 18,745; Sept. 7; Gaz. vol. 218; p. 319.
- "N. A. S. O. Standard First Aid Jar." (For Standard First-Aid Jars.) M. W. Alexander. No. 18,465; May 18; Gaz. vol. 214; p. 1024.
- "Nacco." (For Cleaning Compounds, Disinfectants, and Vermin-Exterminators.) The National Chemical Company. No. 18,744; Sept. 7; Gaz. vol. 218; p. 319.
- "Napoleon Special." (For Whisky.) L. Napoleon. No. 18,184; Jan. 12; Gaz. vol. 210; p. 715.
- "National Benzine—The Ideal Motor Spirit." (For Benzene.) Petroleum Products Company. No. 18,452; May 11; Gaz. vol. 214; p. 681.
- "National Highway Cigars." (For Cigars.) C. J. Slevers. No. 18,890; Nov. 30; Gaz. vol. 220; p. 1717.
- "National Motor Naphtha." (For Motor-Naphtha.) Petroleum Products Company. No. 18,451; May 11; Gaz. vol. 214; p. 681.
- "Never-Mend." (For Metal Ware.) H. Behrens M'fg. Co. No. 18,550; June 22; Gaz. vol. 215; p. 1261.
- "New Five." (For Cigars.) A. C. Henschel & Co. No. 18,798; Oct. 12; Gaz. vol. 219; p. 535.
- "Newbold & Bradley Laxative Capsules Bluefield, W. Va." (For Medicine in Capsule Form.) Newbold & Bradley. No. 18,429; May 4; Gaz. vol. 214; p. 342.
- "Nisse." (For Coffee.) William McMurray & Company. No. 18,622; July 27; Gaz. vol. 216; p. 1317.
- "No-Kaffeen." (For a Substitute for Coffee.) J. R. Daugherty. No. 18,727; Sept. 7; Gaz. vol. 218; p. 319.
- "No-Smart' Face Lotion." (For a Face-Lotion.) R. Di Nonno. No. 18,493; June 1; Gaz. vol. 215; p. 322.
- "Nonpareil." (For Shampoo-Tonic, Hair-Grower, and Dandruff-Remover.) C. H. Tigner. No. 18,281; Mar. 2; Gaz. vol. 212; p. 326.
- "Nu-Lax." (For Medicine.) R. L. Lundgren. No. 18,740; Sept. 7; Gaz. vol. 218; p. 319.
- "Nuhook." (For Hangers for Pictures, Books, Mirrors, Calendars, Thermometers, and other Articles of the Kind.) S. B. Bragg. No. 18,857; Nov. 16; Gaz. vol. 220; p. 1041.
- "O-Cedar Combination Set." (For Mops and Dust-Cloths.) Channell Chemical Company. No. 18,466; May 18; Gaz. vol. 214; p. 1024.
- "O'Donohue's." (For Coffee.) Brazil Syndicate. No. 18,558; Nov. 16; Gaz. vol. 220; p. 1041.
- "Oa Kay." (For Beer.) The Standard Brewery. No. 18,242; Feb. 9; Gaz. vol. 211; p. 640.
- "Old Coon." (For Cigars.) Huntoon & Gorham Co. No. 18,337; Apr. 6; Gaz. vol. 213; p. 359.
- "Old Dutch." (For Beer.) The Krantz Brewing Co. No. 18,340; Apr. 6; Gaz. vol. 213; p. 359.
- "Old Dutch Prepared Mustard, Grandfathers Brand." (For Mustard.) Old Dutch Mustard Co. No. 18,717; Aug. 31; Gaz. vol. 217; p. 1659.
- "Old Fashion." (For Whisky.) Inter-State Distilling Co. No. 18,276; Mar. 2; Gaz. vol. 212; p. 326.
- "Old Glory Extra Fine Ginger Ale, colored." (For Ginger-Ale.) Pratt Bottling Co. No. 18,266; Feb. 23; Gaz. vol. 211; p. 1262.
- "Old Man Oregon." (For Loganberry-Juice.) Northwest Fruit Products Co. No. 18,951; Dec. 28; Gaz. vol. 221; p. 1451.
- "Old 76." (For Coffee and Chicory.) Importers Coffee Co. No. 18,197; Jan. 19; Gaz. vol. 210; p. 1063.
- "Old Time." (For Beer.) Willow Springs Brewing Co. No. 18,683; Aug. 17; Gaz. vol. 217; p. 1053.
- "Olde Browne Health Beer." (For Beer.) Milwaukee-Waukesha Brewing Co. No. 18,539; June 15; Gaz. vol. 215; p. 976.
- "Oldenburger Köhm." (For Cordial.) United Wine & Trading Co. No. 18,678; Aug. 17; Gaz. vol. 217; p. 1053.
- "107." (For Cigars.) F. A. Young. No. 18,471; May 18; Gaz. vol. 214; p. 1024.

Alphabetical list of labels—Continued.

- "108." (For Cigars.) Goldsmith, Silver & Co. No. 18,334; Apr. 6; Gaz. vol. 213; p. 359.
- "Open River." (For Apples.) Tri-State Fruit Co. No. 18,904; Dec. 14; Gaz. vol. 221; p. 735.
- "Orange Manna." (For a Food Product.) W. W. Knight. No. 18,614; July 27; Gaz. vol. 216; p. 1317.
- "Orr's Excellent Cakes." (For Cakes.) O. C. Orr Baking Company. No. 18,296; Mar. 9; Gaz. vol. 212; p. 687.
- "Osceola Brand." (For Sweetened Condensed Milk.) Continental Condensed Milk Co. No. 18,817; Nov. 2; Gaz. vol. 220; p. 347.
- "Our C. C. C. Brand." (For Canned Beans.) Canastota Canning Company. No. 18,559; June 29; Gaz. vol. 215; p. 1497.
- "Our C. C. C. Brand." (For Canned Peas.) Canastota Canning Company. No. 18,562; June 29; Gaz. vol. 215; p. 1497.
- "Our C. C. C. Brand." (For Canned Sugar-Corn.) Canastota Canning Company. No. 18,563; June 29; Gaz. vol. 215; p. 1497.
- "Our Club." (For Cigars.) The Moehle Lithographic Company. No. 18,498; June 1; Gaz. vol. 215; p. 322.
- "Owl Brand." (For Crates Containing Grapes.) Acampo Fruit Growers' Association. No. 18,844; Nov. 9; Gaz. vol. 220; p. 676.
- "Oyama." (For Plant-Food Fertilizer.) J. A. Quinlan, Jr. No. 18,592; July 13; Gaz. vol. 216; p. 662.
- "P. B." (For Cigars.) Pines Bros. No. 18,671; Aug. 17; Gaz. vol. 217; p. 1053.
- "P Q S." (For Pillow-Slips.) Union Bleaching & Finishing Co. No. 18,907; Dec. 14; Gaz. vol. 221; p. 735.
- "Palestine Cigarettes." (For Cigarettes.) D. Spiro. No. 18,576; June 29; Gaz. vol. 215; p. 1497.
- "Pan-in." (For Skin-Cream.) H. Pantini. No. 18,216; Feb. 2; Gaz. vol. 211; p. 283.
- "Pan-Pac." (For Confections.) Amalgamated Concessions Co. No. 18,360; Apr. 13; Gaz. vol. 213; p. 747.
- "Panther Spark Plug." (For Spark-Plugs.) J. N. Healy. No. 18,175; Jan. 12; Gaz. vol. 210; p. 715.
- "Pariloid." (For Paints.) W. H. S. Lloyd Co. No. 18,921; Dec. 21; Gaz. vol. 221; p. 1037.
- "Parker's Toilet Cream." (For a Toilet Cream.) Hiscox Bros. Co. No. 18,532; June 15; Gaz. vol. 215; p. 976.
- "Parkwood Brand." (For Canned Peaches.) The Tiedtke Bros. Co. No. 18,794; Oct. 5; Gaz. vol. 219; p. 268.
- "Passed by The National Board of Censors." (For Motion-Picture Films.) The National Board of Censorship of Motion Pictures. No. 18,265; Feb. 23; Gaz. vol. 211; p. 1262.
- "Passed by The National Board of Censorship." (For Motion-Picture Films.) The National Board of Censorship. No. 18,866; Nov. 16; Gaz. vol. 220; p. 1041.
- "Pastillax." (For a Medical Preparation.) M. Babak. No. 18,598; July 20; Gaz. vol. 216; p. 1011.
- "Peerless." (For Embroidery-Cotton.) F. E. Smith. No. 18,891; Nov. 30; Gaz. vol. 220; p. 1717.
- "Pep-O-Mint Life Savers, A Dainty Confection." Mint Products Company. No. 18,484; May 25; Gaz. vol. 214; p. 1318.
- "Pepto-Prune-Lax." (For a Laxative.) Pepto-Prune-Lax Company. No. 18,377; Apr. 13; Gaz. vol. 213; p. 747.
- "Perfect Ventilating Shirt." (For Shirts.) G. H. Nichols. No. 18,376; Apr. 13; Gaz. vol. 213; p. 747.
- "Perin." (For Cold-Cream.) Perin Inc. No. 18,849; Nov. 9; Gaz. vol. 220; p. 676.
- "Personal Record." (For Sound-Records for Talking-Machines.) Columbia Graphophone Co. No. 18,785; Oct. 5; Gaz. vol. 219; p. 268.
- "Perugia Ointment." (For Ointment.) L. Laurenzi. No. 18,814; Oct. 26; Gaz. vol. 219; p. 1236.
- "Phoenix Komon Beer." (For Beer.) Central Consumers Company. No. 18,320; Apr. 6; Gaz. vol. 213; p. 359.
- "Phy-to-lax." (For Cereals.) Phy-to-lax Company. No. 18,432; May 4; Gaz. vol. 214; p. 342.
- "Phytoform." (For a Tonic.) Lato Pharmacal Company. No. 18,770; Sept. 21; Gaz. vol. 218; p. 874.
- "Pioneer Brand." (For Corn, Tomatoes, Cucumbers, and Cabbage.) Crutchfield & Woolfolk. No. 18,939; Dec. 28; Gaz. vol. 221; p. 1451.
- "Pitcairn Varnish." (For Varnishes.) Pitcairn Varnish Company. No. 18,867; Nov. 16; Gaz. vol. 220; p. 1041.
- "Piury & Co. Sherry." (For Wines.) Sonn Brothers Company. No. 18,542; June 15; Gaz. vol. 215; p. 976.
- "Plowman Overall." (For Overalls.) Happ Brothers Co. No. 18,368; Apr. 13; Gaz. vol. 213; p. 747.
- "Polar Bear Sheathing." (For Sheathing-Paper.) H. Eikenhout & Sons. No. 18,404; Apr. 27; Gaz. vol. 213; p. 1445.
- "Poinsettia Brand." (For Sweetened Condensed Milk.) Continental Condensed Milk Co. No. 18,818; Nov. 2; Gaz. vol. 220; p. 347.
- "Polishine." (For a Liquid for Polishing Varnished Surfaces.) W. S. Kellogg. No. 18,832; Nov. 2; Gaz. vol. 220; p. 347.
- "Pontifical Brand." (For Candles.) F. Marty & Co. No. 18,700; Aug. 24; Gaz. vol. 217; p. 1339.
- "Popular Rag Inverted Mantle." (For Inverted Incandescent Gas-Mantles.) Aurora Mantle & Lamp Company. No. 18,597; July 20; Gaz. vol. 216; p. 1011.
- "Pottery." (For Earthenware Pottery.) J. J. Dale. No. 18,786; Oct. 5; Gaz. vol. 219; p. 268.
- "Premona." (For Beer.) The Kamm & Schellinger Brewing Co. No. 18,176; Jan. 12; Gaz. vol. 210; p. 715.
- "President Suspenders." (For Suspenders.) President Suspenders Company. No. 18,672; Aug. 17; Gaz. vol. 217; p. 1053.
- "Primine." (For Eye-Wash.) W. Kraus. No. 18,949; Dec. 28; Gaz. vol. 221; p. 1451.
- "Priscilla." (For Headwear.) The Winget Manufacturing Co. No. 18,754; Sept. 7; Gaz. vol. 218; p. 319.
- "Protection Barbed Wire Liniment." (For Liniment.) E. E. Gray. No. 18,732; Sept. 7; Gaz. vol. 218; p. 319.
- "Prophy-lac-tic Tooth Brush." (For Tooth-Brushes.) Florence Manufacturing Company. No. 18,307; Mar. 16; Gaz. vol. 212; p. 1056.
- "Pure Linen Writing Paper." (For Writing-Paper.) Kalamazoo Stationery Co. No. 18,478; May 25; Gaz. vol. 214; p. 1318.
- "Pure Olive Oil—Victory Brand." (For Olive-Oil.) P. Bougas. No. 18,660; Aug. 17; Gaz. vol. 217; p. 1053.
- "Pure Powdered German Lye." (For Powdered Lye.) The Sinclair Manufacturing Company. No. 18,675; Aug. 17; Gaz. vol. 217; p. 1053.
- "Pure Standard Baking Powder." (For Baking-Powder.) Reliance Mfg. Company. No. 18,673; Aug. 17; Gaz. vol. 217; p. 1053.
- "Purina Bran Bread." (For Bran-Bread.) Ralston Purina Company. No. 18,771; Sept. 21; Gaz. vol. 218; p. 874.
- "Pyrocine." (For a Tooth-Wash.) H. R. Seessel. No. 18,585; July 6; Gaz. vol. 216; p. 326.
- "Quaker Beer." (For Beer.) Franklin Brewing Company. No. 18,916; Dec. 21; Gaz. vol. 221; p. 1037.
- "Quick Liquid Automobile Polish." (For Liquid Automobile-Polish.) H. W. Nye and M. J. Ebersole. No. 18,668; Aug. 17; Gaz. vol. 217; p. 1053.
- "Queen Skirt Co." (For Ladies' Skirts.) M. Olarsky. No. 18,669; Aug. 17; Gaz. vol. 217; p. 1053.
- "Quick on Auto Suit." (For Auto-Suits.) Wise Brothers. No. 18,930; Dec. 21; Gaz. vol. 221; p. 1037.
- "Quick on Over-All." (For Overalls.) Wise Brothers. No. 18,931; Dec. 21; Gaz. vol. 221; p. 1037.
- "R Cough Medicine." (For Cough Medicine.) M. J. Richards. No. 18,218; Feb. 2; Gaz. vol. 211; p. 283.
- "Radio, A Polish Of Quality." (For a Polish for Woodwork.) R. W. & W. M. Starr. No. 18,223; Feb. 2; Gaz. vol. 211; p. 283.
- "Rainbow Roofing." (For Composition Rolled Roofing.) The Edwards & Chamberlin Hardware Co. No. 18,440; May 11; Gaz. vol. 214; p. 681.
- "Ramona Linen Writing Paper." (For Writing-Paper.) Kalamazoo Stationery Co. No. 18,477; May 25; Gaz. vol. 214; p. 1318.
- "Randall Bros. Liniment." (For a Liniment.) Randall Brothers Company. No. 18,793; Oct. 5; Gaz. vol. 219; p. 268.
- "Rat Swat." (For Rodent-Exterminators.) V. B. Cunningham. No. 18,364; Apr. 13; Gaz. vol. 213; p. 747.
- "Re-Nu-Shine." (For a Cream for Polishing Varnished Surfaces.) W. S. Kellogg. No. 18,830; Nov. 2; Gaz. vol. 220; p. 347.
- "Red Ball." (For Cigars.) Odor Cigar Co. No. 18,925; Dec. 21; Gaz. vol. 221; p. 1037.
- "Red Devil Cement." (For Cement.) C. Jaumann. No. 18,696; Aug. 17; Gaz. vol. 217; p. 1339.
- "Red Devil Roach Destroyer." (For Roach-Destroyers.) The Cox Company. No. 18,569; June 29; Gaz. vol. 215; p. 1497.
- "Red Horse Inn." (For Foods.) The Tebbetts and Garland Store. No. 18,469; May 18; Gaz. vol. 214; p. 1024.
- "Red Mixture." (For a Medicinal Preparation.) F. C. Galehouse. No. 18,367; Apr. 13; Gaz. vol. 213; p. 747.
- "Reliable." (For Shoes.) The Copeland & Ryder Co. No. 18,909; Dec. 21; Gaz. vol. 221; p. 1037.
- "Reo." (For Cigars.) Pamies & Arango. No. 18,606; July 20; Gaz. vol. 216; p. 1011.
- "Republican." (For Piece Goods.) Everett, Heaney & Co. No. 18,423; May 4; Gaz. vol. 214; p. 342.
- "Revil." (For Liver-Tablets.) G. C. Jones. No. 18,739; Sept. 7; Gaz. vol. 218; p. 319.
- "Reynolds Cream Metal Polish." (For Metal-Polish.) Reynolds & Son. No. 18,584; July 6; Gaz. vol. 216; p. 326.
- "Rex." (For Toilet Paper.) Drug Merchants of America. No. 18,254; Feb. 23; Gaz. vol. 211; p. 1262.
- "Rex X-E-Ma Paste for Eczema and other Skin Diseases." (For a Medicinal Preparation.) D. J. Van Fossen. No. 18,381; Apr. 13; Gaz. vol. 213; p. 747.
- "Ric Rac, The Candied Food." (For Candy.) The Ric Rac Company. No. 18,747; Sept. 7; Gaz. vol. 218; p. 319.

- "Rid of Rats." (For Exterminator for Rats and Mice.) The Berg & Beard Mfg. Co. No. 18,815; Nov. 2; Gaz. vol. 220; p. 347.
- "Rising Sun." (For Coffee.) Importers Coffee Co. No. 18,198; Jan. 19; Gaz. vol. 210; p. 1063.
- "Road House." (For Cigars.) Klein Cigar Company. No. 18,697; Aug. 24; Gaz. vol. 217; p. 1339.
- "Rockwood Strawberry Imitation." (For a Soft Drink.) Coca Cola Bottling Works. No. 18,689; Aug. 24; Gaz. vol. 217; p. 1339.
- "Rose of Limerick." (For Irish Whisky.) United Wine & Trading Co. No. 18,870; Nov. 16; Gaz. vol. 220; p. 1041.
- "Rose Tip Themelis Specials." (For Cigarettes.) Themelis Bros. Company. No. 18,505; June 1; Gaz. vol. 215; p. 322.
- "Rosebud Assorted Glace Fruits." (For Assorted Glace Fruits.) Rheinstrom Bros. No. 18,888; Nov. 30; Gaz. vol. 220; p. 1717.
- "Rosebud Cherries." (For Cherries.) Rheinstrom Bros. No. 18,887; Nov. 30; Gaz. vol. 220; p. 1717.
- "Rosemint." (For a Candy Confection.) Mills Novelty Company. No. 18,409; Apr. 27; Gaz. vol. 213; p. 1445.
- "Rosina." (For Medicine.) C. Napoli. No. 18,294; Mar. 9; Gaz. vol. 212; p. 687.
- "Ross's Whole Wheat Biscuit." (For Whole-Wheat Biscuit.) The Ross Food Co. No. 18,841; Nov. 2; Gaz. vol. 220; p. 347.
- "Round Oak Doe-Wah-Jack Stoves, Ranges, Moistair Heating Systems." (For Stoves, Ranges, and Heating Systems.) Estate of P. D. Beckwith. No. 18,941; Dec. 28; Gaz. vol. 221; p. 1451.
- "Round Oak Moistair Heating System." (For Heating Systems.) Estate P D Beckwith Inc. No. 18,363; Apr. 13; Gaz. vol. 213; p. 747.
- "Roundees." (For a Chewing-Gum Confection.) The Helmet Company. No. 18,531; June 15; Gaz. vol. 215; p. 976.
- "Royal Arms, Rare Old Scotch Whisky." (For Scotch Whisky.) J. G. Thomson & Co. No. 18,354; Apr. 6; Gaz. vol. 213; p. 359.
- "Royal Brand Sandwich Paste." (For Paste.) E. Herborg. No. 18,336; Apr. 6; Gaz. vol. 213; p. 359.
- "Royal Fruit Salt." (For a Derivative Compound.) Royal Fruit Salt Co. No. 18,239; Feb. 9; Gaz. vol. 211; p. 640.
- "Royal Muslin." (For Muslins.) I. Reznik. No. 18,217; Feb. 2; Gaz. vol. 211; p. 283.
- "Royal Northern Cream." (For Whisky.) M. MacIntyre. No. 18,182; Jan. 12; Gaz. vol. 210; p. 715.
- "Royalist." (For Tea.) J. A. Folger & Company. No. 18,330; Apr. 6; Gaz. vol. 213; p. 359.
- "Ruba-Lax." (For a Medicinal Preparation.) The Albany Pharmaceutical Company. No. 18,392; Apr. 27; Gaz. vol. 213; p. 1445.
- "S. S. White Cleansing Powder." (For a Cleansing Powder.) The S. S. White Dental Manufacturing Company. No. 18,283; Mar. 2; Gaz. vol. 212; p. 326.
- "S. S. White Shaving Cream." (For Shaving-Cream.) The S. S. White Dental Manufacturing Company. No. 18,682; Aug. 17; Gaz. vol. 217; p. 1053.
- "S. S. White Tooth Paste." (For a Tooth-Paste.) The S. S. White Dental Mfg. Co. No. 18,459; May 11; Gaz. vol. 214; p. 681.
- "Sack White Junior." (For a Composition for Cleaning Leather and Canvas Shoes.) Naptha Starch Enamel Company. No. 18,837; Nov. 2; Gaz. vol. 220; p. 347.
- "Salome." (For Cigarettes.) Rosedor Cigarette Co. No. 18,748; Sept. 7; Gaz. vol. 218; p. 319.
- "Salsa Diablo." (For a Table Condiment.) A. Mitrovich. No. 18,950; Dec. 28; Gaz. vol. 221; p. 1451.
- "Saltpetre." (For Potassium Nitrate.) Battelle & Renwick. No. 18,396; Apr. 27; Gaz. vol. 213; p. 1445.
- "Samson." (For Fresh Apples.) The E. E. Samson Company. No. 18,928; Dec. 21; Gaz. vol. 221; p. 1037.
- "Samson." (For Sail-Twine.) G. H. Davis, Jr. No. 18,329; Apr. 6; Gaz. vol. 213; p. 359.
- "Sandeman's Gold Cord." (For Port-Wines.) E. La Montagne's Sons. No. 18,261; Feb. 23; Gaz. vol. 211; p. 1262.
- "Sandeman's Gold Cord." (For Sherry-Wines.) E. La Montagne's Sons. No. 18,262; Feb. 23; Gaz. vol. 211; p. 1262.
- "Sasnak." (For Tobacco Cigars.) J. Murphy. No. 18,743; Sept. 7; Gaz. vol. 218; p. 319.
- "Scalp Balm." (For a Hair-Tonic.) A. J. Praitano. No. 18,746; Sept. 7; Gaz. vol. 218; p. 319.
- "Scotch Lacquer." (For Scotch Lacquer.) The R. F. Johnston Paint Co. No. 18,258; Feb. 23; Gaz. vol. 211; p. 1262.
- "Scottissue." (For Paper Towels.) Scott Paper Company. No. 18,220; Feb. 2; Gaz. vol. 211; p. 283.
- "Sea Bird." (For Canned Shrimp.) Devitt Clark Packing Company. No. 18,206; Feb. 2; Gaz. vol. 211; p. 283.
- "Sea Foam." (For a Washing-Powder.) Peet Bros. Mfg. Co. No. 18,431; May 4; Gaz. vol. 214; p. 342.
- "Seal of Dakota." (For Wheat-Flour.) The George Orlove Company. No. 18,838; Nov. 2; Gaz. vol. 220; p. 847.
- "Selected Quality Linen Finish Writing Paper." (For Writing-Paper.) Kalamazoo Stationery Co. No. 18,449; May 11; Gaz. vol. 214; p. 681.
- "Sentinel." (For Canned Beans.) Canastota Canning Company. No. 18,560; June 29; Gaz. vol. 215; p. 1497.
- "Sentinel." (For Canned Peas.) Canastota Canning Company. No. 18,564; June 29; Gaz. vol. 215; p. 1497.
- "Sentinel." (For Canned Succotash.) Canastota Canning Company. No. 18,565; June 29; Gaz. vol. 215; p. 1497.
- "Sentinel." (For Canned Sugar-Corn.) Canastota Canning Company. No. 18,566; June 29; Gaz. vol. 215; p. 1497.
- "Serene Mixture." (For Smoking-Tobacco.) Falk Tobacco Company. No. 18,209; Feb. 2; Gaz. vol. 211; p. 283.
- "Service Shoe Leathers." (For Leather.) Anchor Leather Co. No. 18,393; Apr. 27; Gaz. vol. 213; p. 1445.
- "Shasta." (For Coffee.) J. A. Folger & Company. No. 18,331; Apr. 6; Gaz. vol. 213; p. 359.
- "Sheffield Pure Tin Tubes." (For Tin Tubes.) The New England Collapsible Tube Company. No. 18,702; Aug. 24; Gaz. vol. 217; p. 1339.
- "Shinall." (For a Polishing Compound.) H. Bange. No. 18,395; Apr. 27; Gaz. vol. 213; p. 1445.
- "Sigora." (For Cigars.) Greenwood & Company. No. 18,570; June 29; Gaz. vol. 215; p. 1497.
- "Silver Floss." (For Sauer-Kraut.) Empire State Pickling Co. No. 18,822; Nov. 2; Gaz. vol. 220; p. 347.
- "Skinolin." (For an Ointment.) Skinolin Company. No. 18,655; Aug. 3; Gaz. vol. 217; p. 338.
- "Smith Brothers' S. B. Chewing Gum." (For Chewing-Gum.) Smith Brothers. No. 18,720; Aug. 31; Gaz. vol. 217; p. 1659.
- "Snow Drop." (For Toilet-Paper.) Wortendyke Manufacturing Company. No. 18,234; Feb. 2; Gaz. vol. 211; p. 283.
- "Snow White." (For a Water-Color Paint.) J. W. Johnston. No. 18,476; May 25; Gaz. vol. 214; p. 1318.
- "Society Wafers." (For Crackers.) Taggart Baking Company. No. 18,227; Feb. 2; Gaz. vol. 211; p. 283.
- "Sock Surecure Cold." (For a Medicinal Preparation.) The Robinson Company. No. 18,541; June 15; Gaz. vol. 215; p. 976.
- "Solomon Whitfield Smith Three and Nine Dose Venereal Remedy." (For a Medicine for Venereal Diseases.) S. W. Smith & Company. No. 18,656; Aug. 3; Gaz. vol. 217; p. 338.
- "Solosekt The Quality Drink." (For a Beverage.) R. Seumenicht Inc. No. 18,221; Feb. 2; Gaz. vol. 211; p. 283.
- "Solosekt The Quality Drink, Non Alcoholic." (For Non-Alcoholic Beverages.) R. Seumenicht Inc. No. 18,200; Jan. 19; Gaz. vol. 210; p. 1063.
- "Some Biscuit." (For Crackers.) The Grocers Biscuit Company. No. 18,290; Mar. 9; Gaz. vol. 212; p. 687.
- "Southern Girl." (For Coffee.) Dwinell-Wright Co. No. 18,548; June 22; Gaz. vol. 215; p. 1261.
- "Speciale Noubert." (For Cigars.) Scranton Cigar Company. No. 18,712; Aug. 24; Gaz. vol. 217; p. 1339.
- "Sportsman's Chocolate Bracer, Sandwich Form." (For Eating-Chocolate.) Knickerbocker Chocolate Company. No. 18,737; Sept. 7; Gaz. vol. 218; p. 319.
- "St. Martin." (For Medicinal Wine.) J. B. Lambert. No. 18,510; June 8; Gaz. vol. 215; p. 665.
- "Standard Rum of the Country." (For Rum.) Felton & Son. No. 18,305; Mar. 16; Gaz. vol. 212; p. 1056.
- "Standwashe." (For Leather.) The Joseph N. Eisen-drath Company. No. 18,899; Dec. 14; Gaz. vol. 221; p. 735.
- "Standwater." (For Leather.) The Joseph N. Eisen-drath Company. No. 18,898; Dec. 14; Gaz. vol. 221; p. 735.
- "Standwett." (For Leather.) The Joseph N. Eisen-drath Company. No. 18,900; Dec. 14; Gaz. vol. 221; p. 735.
- "Stav Fast." (For Hair-Nets.) Hyman & Oppenheim. No. 18,339; Apr. 6; Gaz. vol. 213; p. 359.
- "Stephens' Duro Ink." (For Ink.) W. P. Stephens. No. 18,543; June 15; Gaz. vol. 215; p. 976.
- "Sterling Brand Clothes." (For Clothing.) David Adler & Sons Clothing Co. No. 18,547; June 22; Gaz. vol. 215; p. 1261.
- "Stimulo." (For Coffee.) Mahon-Stoltz Company. No. 18,427; May 4; Gaz. vol. 214; p. 342.
- "Stoll's." (For Coffee.) Earl Cowan Company. No. 18,403; Apr. 27; Gaz. vol. 213; p. 1445.
- "Strictly Pure Coffee." (For Coffee.) Dwinell-Wright Co. No. 18,507; June 8; Gaz. vol. 215; p. 665.
- "Stuart Arms." (For Cigars.) The Moehle Lithographic Company. No. 18,501; June 1; Gaz. vol. 215; p. 322.
- "Suffer No More for the 'Rattler' Remedy Will Relieve Pain in 3 Minutes." (For Liniment.) B. W. N. Niedzwiecki. No. 18,625; July 27; Gaz. vol. 216; p. 1317.
- "Sugar Pops." (For Candy.) Wadsworth J. Zittel Co. No. 18,236; Feb. 2; Gaz. vol. 211; p. 283.
- "Sulfox." (For Medicinal Waters.) The Eman Manufacturing Company. No. 18,365; Apr. 13; Gaz. vol. 213; p. 747.

Alphabetical list of labels—Continued.

- "Sun Kist Burgundy." (For Wine.) Escondido Vineyard & Winery Company. No. 18,528; June 15; Gaz. vol. 215; p. 976.
- "Sun-Proof Paints." (For Paints.) Patton Paint Company. Nos. 18,626-33; July 27; Gaz. vol. 216; p. 1317.
- "Sun-Proof Paints." (For Paints.) Patton Paint Company. Nos. 18,704-9; Aug. 24; Gaz. vol. 217; p. 1339.
- "Sunny Brand." (For Whisky.) N. W. Blender. No. 18,204; Feb. 2; Gaz. vol. 211; p. 283.
- "Sunshine Shampoo." (For Tin, Glass, and Clay Containers of Shampoo.) S. W. Gillett; No. 18,387; Apr. 20; Gaz. vol. 213; p. 1116.
- "Suntone." (For a Metal-Polishing Agent.) Central Chemical Company. No. 18,662; Aug. 17; Gaz. vol. 217; p. 1053.
- "Supreme Sweets." (For Confections.) G. Haas & Sons. No. 18,445; May 11; Gaz. vol. 214; p. 681.
- "Swan-Grain Brand." (For Food Products.) J. Swangren. No. 18,300; Mar. 9; Gaz. vol. 212; p. 687.
- "Sweethearts." (For Candy.) C. S. Cole. No. 18,725; Sept. 7; Gaz. vol. 218; p. 319.
- "Syrup Kinovic Compound." (For a Tonic.) A. D. Heilmann. No. 18,919; Dec. 21; Gaz. vol. 221; p. 1037.
- "Taggart's Graham Crackers." (For Crackers.) Taggart Baking Company. No. 18,225; Feb. 2; Gaz. vol. 211; p. 283.
- "Taggart's Select Soda Crackers." (For Crackers.) Taggart Baking Company. No. 18,228; Feb. 2; Gaz. vol. 211; p. 283.
- "Tail-Enders." (For Cigars.) J. Schwartz. No. 18,635; July 27; Gaz. vol. 216; p. 1317.
- "Tanks For The World." (For Steel Tanks.) Columbian Steel Tank Co. No. 18,437; May 11; Gaz. vol. 214; p. 681.
- "Tar Heel Croup and Pneumonia Salve." (For Salve.) C. D. Higgins. No. 18,863; Nov. 16; Gaz. vol. 220; p. 1041.
- "Tavern Brand." (For Coffee.) Matson Coffee Company. No. 18,572; June 29; Gaz. vol. 215; p. 1497.
- "Teasel." (For Canned Sugar-Corn.) Canastota Canning Company. No. 18,492; June 1; Gaz. vol. 215; p. 322.
- "Teresa de Rosa." (For Alimentary Pastes.) F. Albano. No. 18,544; June 22; Gaz. vol. 215; p. 1261.
- "Ted." (For Cigars.) Suwannee Cigar Company. No. 18,224; Feb. 2; Gaz. vol. 211; p. 283.
- "Teresa de Rosa." (For Alimentary Pastes.) F. Albano. No. 18,285; Mar. 9; Gaz. vol. 212; p. 687.
- "The Aurora Inverted Mantle." (For Inverted Incandescent Gas-Mantles.) Aurora Mantle & Lamp Company. No. 18,596; July 20; Gaz. vol. 216; p. 1011.
- "The Bag that delivers the goods." (For Bags.) The Selbert Paper Company. No. 18,587; July 6; Gaz. vol. 216; p. 326.
- "The Beer Without A Substitute." (For Beer.) Fenway Breweries. No. 18,424; May 4; Gaz. vol. 214; p. 342.
- "The Bergmann Guaranteed Water Proof Shoe Oil." (For Shoe-Oil.) W. C. Maynard and Company. No. 18,313; Mar. 23; Gaz. vol. 212; p. 1355.
- "The Fram." (For Coffee.) William McMurray & Company. No. 18,619; July 27; Gaz. vol. 216; p. 1317.
- "The K. C." (For Cigars.) W. A. Depue. No. 18,912; Dec. 21; Gaz. vol. 221; p. 1037.
- "The Leader Injector." (For Injectors.) The Randle Machinery Company. No. 18,927; Dec. 21; Gaz. vol. 221; p. 1037.
- "The Major Blend 'Day Dream.'" (For Roasted Coffee.) S. T. Major. No. 18,652; Aug. 3; Gaz. vol. 217; p. 338.
- "The Major Blends, 'Our Matchless.'" (For Roasted Coffee.) S. T. Major. No. 18,741; Sept. 7; Gaz. vol. 218; p. 319.
- "The Miller Hose." (For Hose.) S. S. Miller. No. 18,344; Apr. 6; Gaz. vol. 213; p. 359.
- "The Mule Cigar—The Pride of Missouri." (For Cigars.) F. Wurth. No. 18,235; Feb. 2; Gaz. vol. 211; p. 283.
- "The National Cholera Remedy." (For a Remedy for Hog-Cholera.) The National Hog Cholera Remedy Company. No. 18,802; Oct. 12; Gaz. vol. 219; p. 585.
- "The New Era Doll." (For Dolls and other Toys Made of Plastic Composition.) New Era Novelty Co. No. 18,345; Apr. 6; Gaz. vol. 213; p. 359.
- "The New Tipperary Handkerchief." (For Handkerchiefs.) A. Harden Co. No. 18,693; Aug. 24; Gaz. vol. 217; p. 1339.
- "The Nine Brothers." (For Tasteless Castor-Oil.) The International Drug Co. No. 18,257; Feb. 23; Gaz. vol. 211; p. 1262.
- "The Paint that Lasts." (For Prepared Paints.) The Bridgeport Wood Finishing Co. No. 18,170; Jan. 12; Gaz. vol. 210; p. 715.
- "The Paper that delivers the goods." (For Paper.) The Selbert Paper Company. No. 18,586; July 6; Gaz. vol. 216; p. 326.
- "The Parker Violins." (For Violins.) G. W. Parker. No. 18,839; Nov. 2; Gaz. vol. 220; p. 347.
- "The 'Penny Saver' Sock." (For Socks.) S. S. Miller. No. 18,260; Feb. 23; Gaz. vol. 211; p. 1262.
- "The S. S. White Tooth Brush." (For a Tooth-Brush.) The S. S. White Dental Mfg. Co. Nos. 18,456-7; May 11; Gaz. vol. 214; p. 681.
- "The Safety First Inverted Mantle." (For Inverted Incandescent Gas-Mantles.) Aurora Mantle & Lamp Company. No. 18,595; July 20; Gaz. vol. 216; p. 1011.
- "The Stanley Satin and Leather Dye." (For Dyes.) The Stanley Chemical Co. No. 18,268; Feb. 23; Gaz. vol. 211; p. 1262.
- "The Tipperary Pup." (For a Grotesque Figure of a Dog.) H. Elliott. No. 18,385; Apr. 20; Gaz. vol. 213; p. 1116.
- "The Toast of our Grandparents." (For Coffee.) Dwinell-Wright Co. No. 18,508; June 8; Gaz. vol. 215; p. 665.
- "The Traveller." (For Stationery in Tablet Form.) A. L. Reed Co. No. 18,710; Aug. 24; Gaz. vol. 217; p. 1339.
- "The Watson Magic Hair Restorer." (For a Hair-Tonic.) W. Watson. No. 18,245; Feb. 9; Gaz. vol. 211; p. 640.
- "Thomson's Catarrh and Consumption Remedy." (For a Medicinal Preparation.) J. S. Thomson. No. 18,893; Nov. 30; Gaz. vol. 220; p. 1717.
- "Thoro." (For Powdered Toilet Soap.) Thoro Powdered Toilet Soap Company. No. 18,715; Aug. 24; Gaz. vol. 217; p. 1339.
- "Three C." (For Canned Salmon.) The Coast Canning Co. No. 18,938; Dec. 28; Gaz. vol. 221; p. 1451.
- "Tiz Fliz." (For a Foam-Maker.) L. Anderson. No. 18,166; Jan. 12; Gaz. vol. 210; p. 715.
- "Toedtmann's Honeypepper." (For a Cough Remedy.) F. C. Toedtmann. No. 18,759; Sept. 14; Gaz. vol. 218; p. 601.
- "Tomteuble." (For Coffee.) William McMurray & Company. No. 18,666; Aug. 17; Gaz. vol. 217; p. 1053.
- "Tonsoleum." (For a Medicinal Preparation.) The H-R-Co. No. 18,901; Dec. 14; Gaz. vol. 221; p. 735.
- "Tony Sauce." (For Sauces.) A. D. Teixeira. No. 18,852; Nov. 9; Gaz. vol. 220; p. 676.
- "Trollhattan." (For Coffee.) William McMurray & Company. No. 18,617; July 27; Gaz. vol. 216; p. 1317.
- "Trophy Won February 25th 1915 At The American Art League." (For Gowns and Suits.) W. Burns. No. 18,784; Oct. 5; Gaz. vol. 219; p. 268.
- "True Blue." (For a Veterinary Remedy.) J. Eastman. No. 18,327; June 15; Gaz. vol. 215; p. 976.
- "True Blue." (For Coffee.) L. G. Page. No. 18,876; Nov. 23; Gaz. vol. 220; p. 1372.
- "Turkey Red." (For Paint.) The R. F. Johnston Paint Co. No. 18,829; Nov. 2; Gaz. vol. 220; p. 347.
- "Twin Indian." (For Cigars and Stogies.) L. Bolte. No. 18,250; Feb. 23; Gaz. vol. 211; p. 1262.
- "Twinbred." (For Bread.) L. V. Orsinger. No. 18,653; Aug. 3; Gaz. vol. 217; p. 338.
- "Typewriter Ribbons." (For Type-Writer Ribbons.) Decorated Metal Manufacturing Co. No. 18,911; Dec. 21; Gaz. vol. 221; p. 1037.
- "U-Auto-Varnish." (For Varnish.) The U-Auto-Varnish Co. No. 18,420; Apr. 27; Gaz. vol. 213; p. 1445.
- "U By 2." (For Shirts.) Salant & Salant. No. 18,199; Jan. 19; Gaz. vol. 210; p. 1063.
- "Uluka Raisinette." (For Unfermented and Non-Alcoholic Raisin-Juice.) National Fruit Products Company of California. No. 18,295; Mar. 9; Gaz. vol. 212; p. 687.
- "Ulman's Old Log Cabin Whiskey." (For Whisky.) I. Ulman & Sons. No. 18,813; Oct. 26; Gaz. vol. 219; p. 1236.
- "Ulman's Rose Gin." (For Gin.) I. Ulman & Sons. No. 18,810; Oct. 26; Gaz. vol. 219; p. 1236.
- "Ulso Whiskey." (For Whisky.) I. Ulman & Sons. No. 18,812; Oct. 26; Gaz. vol. 219; p. 1236.
- "Union 100." (For Cigars.) E. S. Blumenkranz. No. 18,934; Dec. 28; Gaz. vol. 221; p. 1451.
- "United States Golf Clothing Company, Makers of Golf Suits." (For Men's Suits.) M. Golland. No. 18,918; Dec. 21; Gaz. vol. 221; p. 1037.
- "Universal." (For Hair-Nets.) Hyman & Oppenheim. No. 18,338; Apr. 6; Gaz. vol. 213; p. 359.
- "Universal Borax Cleanser." (For a Cleanser.) Pacific Coast Borax Company. No. 18,186; Jan. 12; Gaz. vol. 210; p. 715.
- "Unter den Linden." (For Coffee.) William McMurray & Company. No. 18,616; July 27; Gaz. vol. 216; p. 1317.
- "Usemore Screen-Clean." (For a Cleaning Compound for Wire Screens.) D. Briscoe, Jr. No. 18,251; Feb. 23; Gaz. vol. 211; p. 1262.
- "Usit." (For a Medicinal Preparation.) R. W. Morgan. No. 18,865; Nov. 16; Gaz. vol. 220; p. 1041.
- "Utah-Bräu." (For Beer.) The Standard Brewery. No. 18,243; Feb. 9; Gaz. vol. 211; p. 640.
- "Uz-It." (For a Medicinal Preparation.) R. W. Morgan. No. 18,574; June 29; Gaz. vol. 215; p. 1497.
- "Valley Forge Special Beer." (For Beer.) Adam Scheidt Brewing Co. No. 18,163; Jan. 12; Gaz. vol. 210; p. 715.
- "Van Camp's Peanut Butter." (For Peanut-Butter.) The Van Camp Packing Company. No. 18,961; Dec. 28; Gaz. vol. 221; p. 1451.

- "Van's Auto New also Van's Furniture New." (For a Furniture-Polish.) E. A. Van Doran. No. 18,871; Nov. 16; Gaz. vol. 220; p. 1041.
- "Veedol." (For Lubricating-Oils.) Platt & Washburn Refining Company. No. 18,926; Dec. 21; Gaz. vol. 221; p. 1037.
- "Venus Lavender Astringent." (For an Astringent.) Venus Company. No. 18,434; May 4; Gaz. vol. 214; p. 342.
- "Venus Lavender Cream." (For Massage-Cream.) Venus Company. No. 18,382; Apr. 13; Gaz. vol. 213; p. 747.
- "Venus Perfect Writing Paper." (For Writing-Paper.) Kalamazoo Stationery Co. No. 18,448; May 11; Gaz. vol. 214; p. 681.
- "Vermo (compound) an Antiseptic Germicide for the Treatment of Salt-Rheum, Scrofula, Eczema, and Blood Poisoning." (For Bottles, Boxes, and Packages of Medicine.) M. W. Peters. No. 18,348; Apr. 6; Gaz. vol. 213; p. 359.
- "Victor." (For Records for Talking-Machines.) Victor Talking Machine Company. No. 18,244; Feb. 9; Gaz. vol. 211; p. 640.
- "Violet Elice." (For Talc.) A. P. Babcock Co. No. 18,877; Nov. 30; Gaz. vol. 220; p. 1717.
- "Violet Talcum Powder." (For Violet Talcum Powder.) The S. S. White Dental Mfg. Co. No. 18,455; May 11; Gaz. vol. 214; p. 681.
- "Virisol." (For a Medicinal Preparation.) O. Edler. No. 18,287; Mar. 9; Gaz. vol. 212; p. 687.
- "Vogt's Baked Meatcake." (For Canned Meat.) F. G. Vogt & Sons. No. 18,680; Aug. 17; Gaz. vol. 217; p. 1053.
- "Vogt's Philadelphia Scrapple." (For Scrapple.) F. G. Vogt & Sons, Incorporated. No. 18,514; June 8; Gaz. vol. 215; p. 665.
- "Vola." (For Chianti Wine.) Vola Importing Company. No. 18,470; May 18; Gaz. vol. 214; p. 1024.
- "Von Minden." (For Steinhäger.) United Wine & Trading Co. No. 18,960; Dec. 28; Gaz. vol. 221; p. 1451.
- "Votes for Women." (For Chocolate and Confectionery.) Pennsylvania Chocolate Company. No. 18,347; Apr. 6; Gaz. vol. 213; p. 359.
- "Wahneta." (For Toilet-Paper.) The John Hoberg Company. No. 18,534; June 15; Gaz. vol. 215; p. 976.
- "Walla Walla Valley Brand." (For Fresh Apples.) Valley Fruit & Produce Ass'n. No. 18,775; Sept. 21; Gaz. vol. 218; p. 874.
- "Walsh's Head Wash." (For a Head-Wash.) B. P. Walsh and M. Manchik. No. 18,270; Feb. 23; Gaz. vol. 211; p. 1262.
- "Walton Arms." (For Cigars.) The Moebie Lithographic Company. No. 18,499; June 1; Gaz. vol. 215; p. 322.
- "Wan-Sum." (For Canned Beans.) Canastota Canning Company. No. 18,561; June 29; Gaz. vol. 215; p. 1497.
- "Wan-Sum." (For Canned Sugar-Corn.) Canastota Canning Company. No. 18,567; June 29; Gaz. vol. 215; p. 1497.
- "Wan-Sum." (For Canned Peas.) Canastota Canning Company. No. 18,568; June 29; Gaz. vol. 215; p. 1497.
- "Ward's Daintymaid Bread." (For Bread.) Ward Baking Company. No. 18,192; Jan. 12; Gaz. vol. 210; p. 715.
- "Ward's Tip-Top Bread." (For Bread.) Ward Baking Company. No. 18,231; Feb. 2; Gaz. vol. 211; p. 283.
- "Warm Friend." (For Roasted Coffee.) Earl Cowan Company. No. 18,602; June 20; Gaz. vol. 216; p. 1011.
- "Warner's Dustproof." (For a Sweeping Compound.) A. J. Clark. No. 18,600; July 20; Gaz. vol. 216; p. 1011.
- "Warranted Pure Honey H & H Pure Food Products for Health & Happiness Hoffman & Hauck, Woodhaven, N. Y." (For Honey.) Hoffman & Hauck. No. 18,657; Aug. 10; Gaz. vol. 217; p. 698.
- "Warranted Strictly Pure H & H Vermont Maple Syrup H & H Pure Food Products for Health & Happiness. Hoffman & Hauck, Woodhaven, N. Y." (For Maple-Syrup.) Hoffman & Hauck. No. 18,757; Sept. 14; Gaz. vol. 218; p. 601.
- "Washclean." (For a Compound or Composition for Detergent Purposes.) Washclean Mfg. Co. No. 18,722; Aug. 31; Gaz. vol. 217; p. 1659.
- "Watch Your Step." (For Ladies' Dresses.) Woolf & Shulhof. No. 18,271; Feb. 23; Gaz. vol. 211; p. 1262.
- "Waukesha." (For Toilet-Paper.) The John Hoberg Company. No. 18,533; June 15; Gaz. vol. 215; p. 976.
- "Waxbright." (For a Polishing-Wax.) W. S. Kellogg. No. 18,831; Nov. 2; Gaz. vol. 220; p. 347.
- "We Want Your Hay Business." (For Baled Hay.) F. W. Taylor & Co. No. 18,751; Sept. 7; Gaz. vol. 218; p. 319.
- "Wheeler's Hair Coloring." (For Hair-Dye and Hair-Colorings.) Wheeler Beauty Co. No. 18,460; May 11; Gaz. vol. 214; p. 681.
- "White Flake Brand Dry Shelled Sure-Popping Corn." (For Popcorn.) Iowa Pop Corn and Cereal Company. No. 18,212; Feb. 2; Gaz. vol. 211; p. 283.
- "White Pearl Brand." (For Macaroni.) Lorenz Bros. Macaroni Co. No. 18,389; Apr. 20; Gaz. vol. 213; p. 1116.
- "White Ribbon Beer The Food Drink." (For Beer.) White Ribbon Beer Company. No. 18,782; Sept. 28; Gaz. vol. 218; p. 1154.
- "White Rock Rheumatic Remedy." (For Medicine.) A. Kvasnicka. No. 18,738; Sept. 7; Gaz. vol. 218; p. 319.
- "White Seal." (For Cigars.) C. Fortriede. No. 18,442; May 11; Gaz. vol. 214; p. 681.
- "White Star Grape Juice." (For Unfermented Grape-Juice.) The Bass Islands' Vineyards Company. No. 18,317; Apr. 6; Gaz. vol. 213; p. 359.
- "White's Liniment." (For Liniment.) The Albert White Liniment Co. No. 18,963; Dec. 28; Gaz. vol. 221; p. 1451.
- "Wicomico Club Whiskey." (For Whisky.) I. Ulman & Sons. No. 18,811; Oct. 26; Gaz. vol. 219; p. 1236.
- "Wilhelmina." (For Toilet Powders.) A. Veldhuisen. No. 18,679; Aug. 17; Gaz. vol. 217; p. 1053.
- "William Penn." (For Confections.) Reyner & Brothers Incorporated. No. 18,886; Nov. 30; Gaz. vol. 220; p. 1717.
- "Windsor." (For Garter-Elastic.) Smith Webbing Company. No. 18,774; Sept. 21; Gaz. vol. 218; p. 874.
- "Wino Gorzkie." (For Wine.) B. Sarnecki. No. 18,241; Feb. 9; Gaz. vol. 211; p. 640.
- "Wino Kuracyjne Kalwaryjskie." (For Medicinal Wines.) D. Wróblewski. No. 18,843; Nov. 2; Gaz. vol. 220; p. 347.
- "Wm. Fredrick's Hand Made Best by Test Cigars." (For Cigars.) W. Fredrick. No. 18,826; Nov. 2; Gaz. vol. 220; p. 347.
- "Worthmore." (For Tea.) Alexander Sheppard & Sons. No. 18,956; Dec. 28; Gaz. vol. 221; p. 1451.
- "Worthmore." (For Coffee.) Alexander Sheppard & Sons. No. 18,958; Dec. 28; Gaz. vol. 221; p. 1451.
- "Worthe's Brand." (For Flavoring Extracts.) Van Duzer Extract Company. No. 18,894; Nov. 30; Gaz. vol. 220; p. 1717.
- "Writing Fluid." (For Writing-Inks.) L. Gross. No. 18,255; Feb. 23; Gaz. vol. 211; p. 1262.
- "Wunder Wear, The Hose For All Time." (For Hosiery.) McClure & Co. No. 18,214; Feb. 2; Gaz. vol. 211; p. 283.
- "Wyno Pure Mountain Spring Water." (For Spring-Water.) C. H. Titus. No. 18,636; July 27; Gaz. vol. 216; p. 1317.
- "XXX White Diamond Buffing & Polishing." (For an Abrasive Composition.) The Matchless Metal Polish Co. No. 18,311; Mar. 16; Gaz. vol. 212; p. 1056.
- "Ye Kurtin Kall." (For a Telephone-Index.) Douthmaco Selling Associates Incorporated. No. 18,638; Aug. 3; Gaz. vol. 217; p. 338.
- "Ye Olde Colonial Beer." (For Beer.) H. Weinhard. No. 18,357; Apr. 6; Gaz. vol. 213; p. 359.
- "Yellow Newtown." (For Cider Vinegar.) Hood River Apple Vinegar Co. No. 18,475; May 25; Gaz. vol. 214; p. 1318.
- "Yellow Newtown." (For Cider.) Hood River Apple Vinegar Co. No. 18,494; June 1; Gaz. vol. 215; p. 322.
- "Yellowstone Trail." (For Cigars.) N. F. Nelson. No. 18,624; July 27; Gaz. vol. 216; p. 1317.
- "York State." (For Sauer-Kraut.) Empire State Pickling Co. No. 18,821; Nov. 2; Gaz. vol. 220; p. 347.
- "Your-Best-Pal." (For Pianos.) Billings & Sons Piano Co. No. 18,272; Feb. 23; Gaz. vol. 211; p. 1262.
- "Zephyr Plaster Powder." (For Plaster-Powder.) E. Jackson. No. 18,644; Aug. 3; Gaz. vol. 217; p. 338.
- "Ziegler's Malted Milk Sweet Chocolate." (For Malted Milk Sweet Chocolate.) G. Ziegler Co. No. 18,607; July 20; Gaz. vol. 216; p. 1011.
- "Zip The Zip." (For a Non-Alcoholic Beverage.) H. Glickman. No. 18,425; May 4; Gaz. vol. 214; p. 342.
- "Ziska." (For a Hair-Solvent.) Murrey & Powers. No. 18,511; June 8; Gaz. vol. 215; p. 665.

PRINTS.

- "A Dainty Breakfast." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 4,058; Sept. 21; Gaz. vol. 218; p. 874.
- "A Dutch Treat." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,971; June 29; Gaz. vol. 215; p. 1498.
- "A Helping Hand For Every Motorist." (For Vehicle-Tires.) The Fisk Rubber Company. No. 4,048; Aug. 31; Gaz. vol. 217; p. 1659.
- "A Jolly Good Fellow." (For Cigars.) Mayer & Lavenson Co. No. 3,996; July 13; Gaz. vol. 216; p. 662.
- "A run for your money." (For Chewing-Tobacco.) R. J. Reynolds Tobacco Company. No. 3,888; Apr. 27; Gaz. vol. 213; p. 1446.
- "A Thing of Beauty." (For Cigars.) Mayer & Lavenson Co. No. 3,992; July 13; Gaz. vol. 216; p. 662.
- "A Winner." (For Cigars.) Mayer & Lavenson Co. No. 3,994; July 13; Gaz. vol. 216; p. 662.
- "Adjusted in a jiffy." (For Underwear.) Thos. Cusack Company. No. 3,922; May 25; Gaz. vol. 214; p. 1318.
- "Agathon Steels." (For Steel.) The Central Steel Company. No. 4,122; Nov. 16; Gaz. vol. 220; p. 1041.
- "Ah! the Original." (For Cigars.) W. D. Roy Company. No. 4,044; Aug. 31; Gaz. vol. 217; p. 1659.
- "Algola Pills." (For Pills.) Duane Pharmaceutical Company. No. 3,807; Feb. 2; Gaz. vol. 211; p. 284.
- "Almond Cream & Cold Cream." (For Almond Cream and Cold-Cream.) The S. S. White Dental Mfg. Co. No. 4,037; Aug. 24; Gaz. vol. 217; p. 1340.
- "Alvin Silver." (For Alvin Silver.) Alvin Manufacturing Company. No. 4,086; Oct. 19; Gaz. vol. 219; p. 928.
- "Alvin Silver Plate." (For Alvin Silver.) Alvin Manufacturing Company. No. 4,080; Oct. 12; Gaz. vol. 219; p. 585.
- "Always Buy Schulze's Butter-Nut Bread." (For Bread.) Schulze Baking Company. No. 4,053; Sept. 7; Gaz. vol. 218; p. 320.
- "Always good—all ways." (For Sausage.) Thos. Cusack Company. No. 4,059; Sept. 21; Gaz. vol. 218; p. 874.
- "Amazon." (For Knitting-Yarns.) Amazon Cotton Mills. No. 3,904; May 18; Gaz. vol. 214; p. 1024.
- "American Candy Co. Base Ball Stars." (For Chocolates and Confectionery.) American Candy Co. No. 4,020; Aug. 24; Gaz. vol. 217; p. 1340.
- "An American Beauty." (For Cold-Cream.) Colgate & Co. No. 3,941; June 8; Gaz. vol. 215; p. 665.
- "Annette Kellermann Swimming Tights." (For Swimming-Tights.) L. C. Asch. No. 3,871; Apr. 27; Gaz. vol. 213; p. 1446.
- "Armour's Grape Juice." (For Grape-Juice.) Armour and Company. Nos. 3,975-7; July 6; Gaz. vol. 216; p. 326.
- "Around The Globe." (For Cigars.) Mayer & Lavenson Co. No. 3,987; July 13; Gaz. vol. 216; p. 662.
- "As The Modern House-Wife Does It." (For a Mechanical Bread-Mixer.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,103; Oct. 26; Gaz. vol. 219; p. 1236.
- "Ask Dad, he knows." (For Cigarettes.) Thos. Cusack Company. No. 4,060; Sept. 21; Gaz. vol. 218; p. 874.
- "Athena." (For Silver.) R. Wallace & Sons Mfg. Co. No. 3,933; June 1; Gaz. vol. 215; p. 322.
- "B. & G. Médoc and Sauternes." (For Médoc and Sauternes.) E. La Montagne's Sons. No. 3,942; June 8; Gaz. vol. 215; p. 665.
- "B. V. D. Boys' Closed Crotch Union Suit." (For Athletic Underwear.) The B. V. D. Company. No. 4,067; Sept. 28; Gaz. vol. 218; p. 1154.
- "B. V. D. Makes Ours 'The Land of the Free.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,963; June 29; Gaz. vol. 215; p. 1498.
- "B. V. D. Makes Ours 'The Land of the Free.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,968; June 29; Gaz. vol. 215; p. 1498.
- "B. V. D. Men's Union Suit." (For Athletic Underwear.) The B. V. D. Co. No. 4,022; Aug. 24; Gaz. vol. 217; p. 1340.
- "B. V. D. Men's V Neck Two Piece Suit." (For Athletic Underwear.) The B. V. D. Company. No. 4,087; Oct. 19; Gaz. vol. 219; p. 928.
- "B. V. D. Men's V Neck Union Suit." (For Athletic Underwear.) The B. V. D. Company. No. 4,088; Oct. 19; Gaz. vol. 219; p. 928.
- "B. V. D. 1915 Men's Two Piece Suit." (For Athletic Underwear.) The B. V. D. Company. No. 4,021; Aug. 24; Gaz. vol. 217; p. 1340.
- "Baker Boy." (For Bread.) The Dietz Baking Company. No. 4,134; Nov. 30; Gaz. vol. 220; p. 1717.
- "Baking-Powder and Grape Poster." (For Baking-Powder.) A. Schilling & Company. No. 4,009; Aug. 3; Gaz. vol. 217; p. 338.
- "Ballistite." (For Smokeless Shotgun-Powder.) E. I. du Pont de Nemours Powder Co. No. 4,107; Oct. 26; Gaz. vol. 219; p. 1236.
- "Be prepared!" (For Athletic Underwear.) The B. V. D. Company. No. 3,910; May 18; Gaz. vol. 214; p. 1024.
- "Between You and the Sun 'stands B. V. D.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,907; May 18; Gaz. vol. 214; p. 1024.
- "Big Dan." (For Nickel Alarm-Clocks.) E. H. Snow. No. 4,099; Oct. 19; Gaz. vol. 219; p. 928.
- "Big-Dandy." (For Bread.) P. Schulze. No. 3,950; June 15; Gaz. vol. 215; p. 976.
- "Biggest Value In Town—Gumpels." (For Clothing.) J. Gumpel & Son. No. 3,823; Feb. 23; Gaz. vol. 211; p. 1262.
- "Black Band." (For Coal.) The C. Reiss Coal Co. No. 3,998; July 20; Gaz. vol. 216; p. 1011.
- "Blow in on this one." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 4,040; Aug. 31; Gaz. vol. 217; p. 1659.
- "Blue Monday." (For an Electric Washing-Machine.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,079; Oct. 5; Gaz. vol. 219; p. 268.
- "Bobs." (For Candy-Coated Chewing-Gum.) Frank H. Fleer Corporation. No. 3,854; Apr. 6; Gaz. vol. 213; p. 360.
- "Bringing Home The Holly." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,796; Jan. 12; Gaz. vol. 210; p. 716.
- "Build For The Ages." (For Tile, Lining, Brick, Stucco, Roofing, Cement, Plaster, Lime, Stone, Gravel, Sand, and Pipe.) United Fuel Supply Co. No. 3,863; Apr. 13; Gaz. vol. 213; p. 748.
- "Burglars." (For Cigars.) Mayer & Lavenson Co. No. 3,985; July 13; Gaz. vol. 216; p. 662.
- "Burn Your Refuse Before it Becomes Filth." (For a Garbage-Incinerator.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,076; Oct. 5; Gaz. vol. 219; p. 268.
- "Burson." (For Hosiery.) Burson Knitting Company. No. 4,111; Nov. 2; Gaz. vol. 220; p. 348.
- "Burson Fashioned Hose." (For Burson-Fashioned Hose.) Burson Knitting Company. No. 4,110; Nov. 2; Gaz. vol. 220; p. 348.
- "Buy Coffee From Your Grocer—he is Reliable." (For Coffee.) Thos. Cusack Company. No. 4,124; Nov. 16; Gaz. vol. 220; p. 1041.
- "Buy Ferry's Seeds Here." (For Ferry's Seeds.) D. M. Ferry & Co. No. 3,859; Apr. 13; Gaz. vol. 213; p. 748.
- "California's Morning Glory." (For Coffee.) Newmark Brothers. No. 4,147; Dec. 14; Gaz. vol. 221; p. 735.
- "Carter's Knit Underwear Please." (For Knit Underwear.) The William Carter Co. No. 3,940; June 8; Gaz. vol. 215; p. 655.
- "Certainement, That's It! Cream of Wheat!" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,999; July 27; Gaz. vol. 216; p. 1318.
- "Chero-Cola, There's None So Good." (For Chero-Cola.) Chero-Cola Co. No. 3,857; Apr. 13; Gaz. vol. 213; p. 748.
- "Cherry Smash." (For Cherry Smash.) J. E. Fowler. No. 4,000; July 27; Gaz. vol. 216; p. 1318.
- "Cherry Smash." (For Cherry Smash.) J. E. Fowler. No. 4,096; Oct. 19; Gaz. vol. 219; p. 928.
- "Cherry Smash Sundae." (For Sundaes.) J. E. Fowler. No. 4,068; Sept. 28; Gaz. vol. 218; p. 1154.
- "Cincinnati Automatic Pedestal Operating Table." (For Operating-Tables.) The Max Woche & Son Co. No. 4,081; Oct. 12; Gaz. vol. 219; p. 585.
- "Clean, Sweet Clothes with the Least Effort." (For American Family Soap.) Thos. Cusack Company. No. 3,876; Apr. 27; Gaz. vol. 213; p. 1446.
- "Cleaning—The New Way." (For an Electrical Vacuum-Cleaner.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,073; Oct. 5; Gaz. vol. 219; p. 268.
- "Cleaning the Old Way." (For an Electrical Vacuum-Cleaner.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,092; Oct. 19; Gaz. vol. 219; p. 928.
- "Closed comfortable trouser crotch." (For Underwear.) Thos. Cusack Company. No. 3,921; May 25; Gaz. vol. 214; p. 1318.

- "Clothing Swatch Folder." (For Men's Clothing.) Strouse & Brothers. No. 4,137; Nov. 30; Gaz. vol. 220; p. 1717.
- "Colgates." (For Shaving Stick, Powder, and Cream.) Colgate & Co. No. 4,141; Dec. 7; Gaz. vol. 221; p. 349.
- "Colonial Night Lamp." (For Candle Lamps.) F. Marty & Co. No. 3,885; Apr. 27; Gaz. vol. 213; p. 1446.
- "Comfort Without Dirt." (For an Electric Heater.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,153; Dec. 28; Gaz. vol. 221; p. 1452.
- "Contract Cancelled." (For Ranges.) Estate of P. D. Beckwith. No. 4,023; Aug. 24; Gaz. vol. 217; p. 1340.
- "Cook In Comfort." (For a Gas-Range.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,077; Oct. 5; Gaz. vol. 219; p. 268.
- "Cook Stove Size." (For Coal.) J. E. Beebe. No. 4,120; Nov. 16; Gaz. vol. 220; p. 1041.
- "Cooking In Comfort." (For a Gas-Range.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,075; Oct. 5; Gaz. vol. 219; p. 268.
- "Crotch exactly like your trousers." (For Underwear.) Thos. Cusack Company. No. 3,930; May 25; Gaz. vol. 214; p. 1318.
- "D. Canale & Co., Memphis, Tenn." (For Wines and Liquors.) D. Canale & Co. No. 4,152; Dec. 28; Gaz. vol. 221; p. 1452.
- "Dan D. Cream." (For Ice-Cream and Ices.) Utica Ice Cream Company. No. 4,138; Nov. 30; Gaz. vol. 220; p. 1717.
- "Delicious Candy Kid. A Popcorn and Peanut Confection. 5¢ per box." (For Popcorn and Peanut Confection.) F. S. Love Manufacturing Company. No. 4,054; Sept. 7; Gaz. vol. 218; p. 320.
- "Dietz Lanterns." (For Lanterns.) R. E. Dietz Company. No. 3,805; Feb. 2; Gaz. vol. 211; p. 284.
- "Dirt, Discomfort and Discomfiture." (For an Electric Iron.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,094; Oct. 19; Gaz. vol. 219; p. 928.
- "Don't Court Disaster." (For an Electric Iron.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,106; Oct. 26; Gaz. vol. 219; p. 1236.
- "Don't Send Me One Penny." (For Automobiles.) T. O. Warfield. No. 4,151; Dec. 21; Gaz. vol. 221; p. 1037.
- "Dove." (For Undermuslins.) D. D. and S. A. Sicher. No. 4,017; Aug. 17; Gaz. vol. 217; p. 1053.
- "Drink Pepsi-Cola." (For Pepsi-Cola.) The Pepsi-Cola Co. No. 3,862; Apr. 13; Gaz. vol. 213; p. 748.
- "Drive the Dirt Out." (For American Family Soap.) Thos. Cusack Company. No. 3,880; Apr. 27; Gaz. vol. 213; p. 1446.
- "Duke's Mixture." (For Smoking-Tobacco.) Liggett & Myers Tobacco Company. No. 3,914; May 18; Gaz. vol. 214; p. 1024.
- "Durham-Duplex." (For Razors.) Durham Duplex Razor Co. No. 3,978; July 6; Gaz. vol. 216; p. 326.
- "Durkee's Celery Salt." (For Celery-Salt.) E. R. Durkee & Co. No. 3,952; June 22; Gaz. vol. 215; p. 1261.
- "Durkee's Challenge Sauce." (For Sauces.) E. R. Durkee & Co. No. 3,953; June 22; Gaz. vol. 215; p. 1261.
- "Durkee's Curry Powder." (For Curry-Powder.) E. R. Durkee & Co. No. 3,956; June 22; Gaz. vol. 215; p. 1261.
- "Durkee's Flavoring Extracts." (For Flavoring Extracts.) E. R. Durkee & Co. No. 3,957; June 22; Gaz. vol. 215; p. 1261.
- "Durkee's Pastry Spice." (For Spices.) E. R. Durkee & Co. No. 3,945; June 15; Gaz. vol. 215; p. 976.
- "Durkee's Poultry Seasoning." (For Seasoning.) E. R. Durkee & Co. No. 3,954; June 22; Gaz. vol. 215; p. 1261.
- "Durkee's Salad Dressing." (For Salad-Dressing.) E. R. Durkee & Co. No. 3,955; June 22; Gaz. vol. 215; p. 1261.
- "E. C. Smokeless Shotgun Powder." (For Shotgun-Powder.) Hercules Powder Co. No. 3,812; Feb. 2; Gaz. vol. 211; p. 284.
- "E. C. Smokeless Shotgun Powder." (For Smokeless Shotgun-Powder.) Hercules Powder Co. No. 4,162; Dec. 28; Gaz. vol. 221; p. 1452.
- "Early to Bed Early to Rise Short Length Sleeping Suits—Now you're wise." (For Sleeping-Suits.) The B. V. D. Company. No. 3,905; May 18; Gaz. vol. 214; p. 1024.
- "Ease—Comfort." (For Underwear.) Thos. Cusack Company. No. 3,920; May 25; Gaz. vol. 214; p. 1318.
- "Ease—Comfort." (For Underwear.) Thos. Cusack Company. No. 3,928; May 25; Gaz. vol. 214; p. 1318.
- "Economy Coupons." (For Certain Named Foods.) United Manufacturers Service Corporation. No. 4,019; Aug. 17; Gaz. vol. 217; p. 1053.
- "Economy In The Home." (For Black Dye.) E. J. Reilly. No. 4,082; Oct. 12; Gaz. vol. 219; p. 585.
- "Egaday." (For Poultry Feed.) South Texas Grain Company. No. 4,100; Oct. 19; Gaz. vol. 219; p. 928.
- "Electric-Cut." (For Coffee-Mills and Meat-Choppers.) The Canton Electric Cut Company. No. 4,014; Aug. 17; Gaz. vol. 217; p. 1053.
- "Electric Heating Pad." (For an Electric Heating-Pad.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,155; Dec. 28; Gaz. vol. 221; p. 1452.
- "Eleven busy Owl Factories Prove what smokers think of me." (For Cigars.) Thos. Cusack Company. No. 3,837; Mar. 9; Gaz. vol. 212; p. 687.
- "Eleven busy Owl Factories Prove what smokers think of me." (For Cigars.) Thos. Cusack Company. Nos. 3,840-1; Mar. 9; Gaz. vol. 212; p. 687.
- "Empty, By Heck!" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 4,113; Nov. 2; Gaz. vol. 220; p. 348.
- "Eusozo." (For a Medicine.) J. E. Celli. No. 3,898; May 11; Gaz. vol. 214; p. 682.
- "Everybody's Bread." (For Bread.) E. Frisch. No. 4,128; Nov. 16; Gaz. vol. 220; p. 1041.
- "Extreme positions without strain anywhere." (For Underwear.) Thos. Cusack Company. No. 3,918; May 25; Gaz. vol. 214; p. 1318.
- "Face Summer In 'Fine Fettle' With B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 3,961; June 29; Gaz. vol. 215; p. 1498.
- "Face Summer In 'Fine Fettle' With B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 3,967; June 29; Gaz. vol. 215; p. 1498.
- "Falstaff." (For Beer.) Wm. J. Lemp Brewing Co. No. 3,815; Feb. 2; Gaz. vol. 211; p. 284.
- "Fancy Border for Advertising Matter." (For Pianos.) R. W. Martin. No. 3,983; July 6; Gaz. vol. 216; p. 326.
- "Farmers Delight." (For Cigars.) Mayer & Lavenson Co. No. 3,993; July 13; Gaz. vol. 216; p. 662.
- "Ferry's Seeds." (For Ferry's Seeds.) D. M. Ferry & Co. No. 4,143; Dec. 7; Gaz. vol. 221; p. 349.
- "First Aid to a Good Complexion." (For Aleppo Cold-Cream.) New England Laboratory Co. No. 3,932; June 1; Gaz. vol. 215; p. 322.
- "First Aid to the Light Sleeper." (For Sleeping-Suits.) The B. V. D. Company. No. 3,909; May 18; Gaz. vol. 214; p. 1024.
- "Flavor Your Game With Bell's Spiced Seasoning." (For Spiced Seasoning.) The William G. Bell Company. No. 4,121; Nov. 16; Gaz. vol. 220; p. 1041.
- "For the love of mildness! Light up another!" (For Cigars.) Thos. Cusack Company. No. 3,838; Mar. 9; Gaz. vol. 212; p. 687.
- "Forster Treuft." (For Artificial Limbs, Supports, Extensions, Braces, Splints, and Orthopedic Appliances.) Adjustable Soft Socket Artificial Limb Co. No. 3,870; Apr. 20; Gaz. vol. 213; p. 1116.
- "Fragrant and Refreshing." (For Jap Rose Soap.) Thos. Cusack Company. No. 3,877; Apr. 27; Gaz. vol. 213; p. 1446.
- "From Childhood To Old Age." (For a Dental Paste.) Eli Lilly and Company. No. 4,032; Aug. 24; Gaz. vol. 217; p. 1340.
- "Frozen Mints—They Captivate." (For Chewing-Gum.) Edwards & Deutsch Litho. Co. No. 3,843; Mar. 9; Gaz. vol. 212; p. 687.
- "Full View." (For Cake.) M. M. Trembley. No. 4,005; July 27; Gaz. vol. 216; p. 1318.
- "Garco." (For Asbestos Textiles.) General Asbestos & Rubber Company. No. 4,135; Nov. 30; Gaz. vol. 220; p. 1717.
- "Genuine Ivory Panama Bleach." (For Hats.) L. Galitzki. No. 4,129; Nov. 16; Gaz. vol. 220; p. 1041.
- "German Eagle." (For Bread.) N. Ludwig. No. 4,098; Oct. 19; Gaz. vol. 219; p. 928.
- "Get Next To This Inside Stuff." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 3,850; Mar. 30; Gaz. vol. 212; p. 1688.
- "Get the Flavor of Juicy Fruit." (For Chewing-Tobacco.) R. J. Reynolds Tobacco Company. No. 3,889; Apr. 27; Gaz. vol. 213; p. 1446.
- "Girl Massaging Scalp." (For a Scalp Remedy.) The Hyki Company, (not inc.) No. 4,008; Aug. 3; Gaz. vol. 217; p. 338.
- "Giuseppe Garibaldi Brand." (For Macaroni.) A. A. Giunta. No. 3,899; May 11; Gaz. vol. 214; p. 682.
- "Glad Hand." (For Coffee.) Kaufmann & Strauss Co. No. 3,931; June 1; Gaz. vol. 215; p. 322.
- "Globe." (For Tailor-Made Union Suits.) Globe Knitting Works. No. 4,130; Nov. 16; Gaz. vol. 220; p. 1041.
- "Globe Sprinklers." (For Sprinklers.) The Globe Automatic Sprinkler Co. No. 3,891; May 4; Gaz. vol. 214; p. 342.
- "Go Get B. V. D. and Get Cool." (For Athletic Underwear.) The B. V. D. Company. No. 3,960; June 29; Gaz. vol. 215; p. 1498.
- "Go Get B. V. D. and Get Cool." (For Athletic Underwear.) The B. V. D. Company. No. 3,966; June 29; Gaz. vol. 215; p. 1498.
- "Good-Bye Mr. Louse." (For National Automatic Hog-Oiler.) National Factories. No. 3,984; July 13; Gaz. vol. 216; p. 662.
- "Good Natured." (For Cigars.) Mayer & Lavenson Co. No. 3,990; July 13; Gaz. vol. 216; p. 662.
- "Good Night, Daddy." (For Underwear.) Northwestern Knitting Company. No. 4,165; Dec. 28; Gaz. vol. 221; p. 1452.

Alphabetical list of prints—Continued.

- "Good results with Cold water." (For American Family Soap.) Thos. Cusack Company. No. 3,883; Apr. 27; Gaz. vol. 213; p. 1446.
- "Good Ship—Satisfied Customer." (For Gentlemen's Furnishing Goods and Clothing.) D. M. Boyd. No. 4,090; Oct. 19; Gaz. vol. 219; p. 928.
- "Good Taste." (For Cigars.) Mayer & Lavenson Co. No. 3,989; July 13; Gaz. vol. 216; p. 662.
- "Goodrich Safety Tread." (For Pneumatic Tires.) The B. F. Goodrich Co. No. 3,912; May 18; Gaz. vol. 214; p. 1024.
- "Goodyear's." (For Rubber Goods.) Goodyears India Rubber Glove Mfg. Co. No. 4,144; Dec. 7; Gaz. vol. 221; p. 349.
- "Gordon London Dry Gin." (For Gordon London Dry Gin.) E. La Montagne's Sons. No. 3,943; June 8; Gaz. vol. 215; p. 655.
- "Greenfield's Chocolate Sponge." (For Candy.) E. Greenfield's Sons. No. 3,892; May 4; Gaz. vol. 214; p. 342.
- "Hand Work makes me—Head work buys me." (For Cigars.) Thos. Cusack Company. No. 3,839; Mar. 9; Gaz. vol. 212; p. 687.
- "Hannis Whiskey." (For Hannis Whisky.) The Hannis Distilling Co. No. 4,145; Dec. 7; Gaz. vol. 221; p. 349.
- "Have Compassion on Your Clothes." (For American Family Soap.) Thos. Cusack Company. No. 3,875; Apr. 27; Gaz. vol. 213; p. 1446.
- "Heatherbloom." (For Petticoats.) A. G. Hyde & Sons. No. 4,064; Sept. 21; Gaz. vol. 218; p. 874.
- "Heinz Interest & Discount Time Teller and Desk Calendar." (For Calendars.) E. N. Heinz. No. 4,159; Dec. 28; Gaz. vol. 221; p. 1452.
- "Her First Lesson." (For Rumford Baking-Powder.) Rumford Chemical Works. No. 4,146; Dec. 7; Gaz. vol. 221; p. 349.
- "Hercules Brand French Refined." (For Human-Hair Goods.) Scheur & Company. No. 3,800; Jan. 12; Gaz. vol. 210; p. 716.
- "Hercules Dynamite." (For Dynamite.) Hercules Powder Co. No. 4,161; Dec. 28; Gaz. vol. 221; p. 1452.
- "Hercules Explosives." (For Explosives.) Hercules Powder Co. No. 3,808; Feb. 2; Gaz. vol. 211; p. 284.
- "Hercules Explosives." (For Explosives.) Hercules Powder Co. No. 4,160; Dec. 28; Gaz. vol. 221; p. 1452.
- "Hercules Powder." (For Powder.) Hercules Powder Co. No. 3,810; Feb. 2; Gaz. vol. 211; p. 284.
- "Hercules Rifle Powders." (For Rifle-Powders.) Hercules Powder Co. No. 3,809; Feb. 2; Gaz. vol. 211; p. 284.
- "Hickson's Twin Sagless." (For Springs for Beds, Cots, and Couches.) Pittsburgh-Hickson Company. No. 3,902; May 11; Gaz. vol. 214; p. 682.
- "His Bait." (For Cigars.) Liggett & Myers Tobacco Company. No. 3,901; May 11; Gaz. vol. 214; p. 682.
- "Home Treat." (For Ice-Cream Products.) Fussell Ice Cream Company. No. 4,051; Sept. 7; Gaz. vol. 218; p. 320.
- "Horton's Ice Cream." (For Ice-Cream.) J. M. Horton Ice Cream Company. No. 4,025; Aug. 24; Gaz. vol. 217; p. 1340.
- "Hospitality." (For Cigars.) Mayer & Lavenson Co. No. 3,995; July 13; Gaz. vol. 216; p. 662.
- "Hum-Ala." (For Beverages.) D. Humphrey. No. 4,052; Sept. 7; Gaz. vol. 218; p. 320.
- "Hum-Can." (For Candy.) D. Humphrey. No. 4,164; Dec. 28; Gaz. vol. 221; p. 1452.
- "Hurley Combination." (For Shoes.) Hurley Shoe Co. No. 4,149; Dec. 21; Gaz. vol. 221; p. 1037.
- "I'm Ready, Rastus." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 4,123; Nov. 16; Gaz. vol. 220; p. 1041.
- "Ice Cold Beer." (For Beer.) Kaufmann & Strauss Co. No. 3,884; Apr. 27; Gaz. vol. 213; p. 1446.
- "Independent Of The Garbage Man." (For a Garbage-Incinerator.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,078; Oct. 5; Gaz. vol. 219; p. 268.
- "Infallible." (For Smokeless Shotgun-Powder.) Hercules Powder Company. No. 3,797; Jan. 12; Gaz. vol. 210; p. 716.
- "Infallible and E. C." (For Smokeless Shotgun-Powder.) Hercules Powder Co. No. 3,824; Feb. 23; Gaz. vol. 211; p. 1262.
- "Infallible Smokeless Shotgun Powder." (For Infallible Smokeless Shotgun-Powder.) Hercules Powder Co. No. 3,811; Feb. 2; Gaz. vol. 211; p. 284.
- "Infallible Smokeless Shotgun Powder." (For Smokeless Shotgun-Powder.) Hercules Powder Co. No. 4,163; Dec. 28; Gaz. vol. 221; p. 1452.
- "Ingersoll." (For Watches.) Robt. H. Ingersoll & Bro. No. 4,016; Aug. 17; Gaz. vol. 217; p. 1053.
- "Interwoven Toe and Heel Socks." (For Hosiery.) Interwoven Stocking Co. No. 4,136; Nov. 30; Gaz. vol. 220; p. 1717.
- "Into B. V. D. Means 'Back to Nature.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,962; June 29; Gaz. vol. 215; p. 1498.
- "Into B. V. D. Means 'Back to Nature.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,964; June 29; Gaz. vol. 215; p. 1498.
- "It's Cedar." (For Polish for Wood and other Materials.) Gardner Wire Company. No. 3,822; Feb. 23; Gaz. vol. 211; p. 1262.
- "It's the silk in Kayser Silk Gloves." (For Silk Gloves.) Julius Kayser & Co. No. 4,030; Aug. 24; Gaz. vol. 217; p. 1340.
- "Jack Sprat." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 4,050; Sept. 7; Gaz. vol. 218; p. 320.
- "Just as cool as they look." (For Hosiery.) Interwoven Stocking Company. No. 3,980; July 6; Gaz. vol. 216; p. 326.
- "Kayo." (For Sauce.) E. Pennoyer. No. 4,114; Nov. 2; Gaz. vol. 220; p. 348.
- "Kayser Silk Gloves Even after they have been washed." (For Silk Gloves.) Julius Kayser & Co. No. 4,029; Aug. 24; Gaz. vol. 217; p. 1340.
- "Kayser's Silk Gloves Notice especially the shape." (For Silk Gloves.) Julius Kayser & Co. No. 4,028; Aug. 24; Gaz. vol. 217; p. 1340.
- "Kelly-Springfield Tires." (For Tires.) Kelly-Springfield Tire Co. No. 3,826; Feb. 23; Gaz. vol. 211; p. 1262.
- "King Philip Mills." (For Nainsooks.) King Philip Mills. No. 3,849; Mar. 30; Gaz. vol. 212; p. 1688.
- "King Philip Mills Line of Nainsooks." (For Nainsooks.) King Philip Mills. No. 4,065; Sept. 21; Gaz. vol. 218; p. 874.
- "Kirk's Flake Soap, No. 462." (For Soap.) James S. Kirk & Company. No. 3,844; Mar. 9; Gaz. vol. 212; p. 687.
- "Kneipp Malt Better Than Coffee." (For Kneipp Malt.) Kneipp Malt Food Company. No. 3,947; June 15; Gaz. vol. 215; p. 976.
- "Knocks the Devil out of Your Corns." (For Corn Cures.) Omega Corn Cure Medicine Co. No. 4,066; Sept. 21; Gaz. vol. 218; p. 874.
- "Krumm's." (For Noodles.) A. C. Krumm, Sr., and A. C. Krumm, Jr. No. 4,097; Oct. 19; Gaz. vol. 219; p. 928.
- "Lasts Everlastingly." (For Brick.) The American Art Works. No. 3,897; May 11; Gaz. vol. 214; p. 682.
- "Lather the Mennen Way." (For Shaving-Cream.) The G. Mennen Chemical Company. No. 3,979; June 29; Gaz. vol. 215; p. 1498.
- "Lehigh Portland Cement." (For Lehigh Portland Cement.) Lehigh Portland Cement Co. No. 3,861; Apr. 13; Gaz. vol. 213; p. 748.
- "Liberated." (For an Electric Dish-Washing Machine.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,102; Oct. 26; Gaz. vol. 219; p. 1236.
- "Like a clean dish." (For Refrigerators.) Grand Rapids Refrigerator Co. No. 3,900; May 11; Gaz. vol. 214; p. 682.
- "Loaves of Bread." (For Bread.) M. M. Trembley. No. 4,004; July 27; Gaz. vol. 216; p. 1318.
- "Look Around! 'There's an Owl dealer right near you.'" (For Cigars.) Thos. Cusack Company. No. 3,835; Mar. 9; Gaz. vol. 212; p. 687.
- "Luxury." (For Cake.) P. Schulze. No. 3,949; June 15; Gaz. vol. 215; p. 976.
- "M. D. Harris & Co. Known All Over Land, Shirt Makers." (For Shirts.) M. D. Harris. No. 4,063; Sept. 21; Gaz. vol. 218; p. 874.
- "Made In A Minute The Milk's Mixed In It." (For Pancake-Flour.) Aunt Jemima Mills Company. No. 4,049; Sept. 7; Gaz. vol. 218; p. 320.
- "Maiden America." (For Dolls.) K. Silverman. No. 4,117; Nov. 2; Gaz. vol. 220; p. 348.
- "Makes Laundry Work So Easy." (For American Family Soap.) Thos. Cusack Company. No. 3,879; Apr. 27; Gaz. vol. 213; p. 1446.
- "Makes the Dirt Fly." (For American Family Soap.) Thos. Cusack Company. No. 3,882; Apr. 27; Gaz. vol. 213; p. 1446.
- "Mamma's Pancake Flour." (For Pancake-Flour.) F. B. Chamberlain Company. No. 4,112; Nov. 2; Gaz. vol. 220; p. 348.
- "Marathon Angle Tread Tires 'Inspire Confidence.'" (For Automobile-Tires.) The Marathon Tire & Rubber Co. No. 3,944; June 8; Gaz. vol. 215; p. 665.
- "Marker for Public Roads." (For Markers for Public Roads.) J. H. Beeson. No. 4,071; Oct. 5; Gaz. vol. 219; p. 268.
- "Measurements Required When Ordering B. V. D. Underwear." (For Athletic Underwear.) The B. V. D. Company. No. 4,089; Oct. 19; Gaz. vol. 219; p. 928.
- "Millions of other women have already found out." (For Silk Gloves.) Julius Kayser & Co. No. 4,026; Aug. 24; Gaz. vol. 217; p. 1340.
- "Modeled perfectly, they heighten the beauty." (For Silk Gloves.) Julius Kayser & Co. No. 4,027; Aug. 24; Gaz. vol. 217; p. 1340.
- "Models for all shapes." (For Underwear.) Thos. Cusack Company. No. 3,919; May 25; Gaz. vol. 214; p. 1318.
- "Moore Self Winding Clothes Line." (For Clothes-Line Reels.) Moore Drop Forging Company. No. 3,951; June 22; Gaz. vol. 215; p. 1261.
- "More women wear Kayser Silk Gloves." (For Silk Gloves.) Julius Kayser & Co. No. 4,031; Aug. 24; Gaz. vol. 217; p. 1340.

- "Mrs. Coffee's Toast." (For Coffee.) W. T. Brown. No. 3,939; June 8; Gaz. vol. 215; p. 665.
- "Mutt thought all tobaccos bit the tongue till Jeff brought home some 'Good Old P. A.'" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 3,852; Mar. 30; Gaz. vol. 212; p. 1688.
- "National Brand Human Hair." (For Hair Goods and Hair Switches.) National Hair Goods Company. No. 3,817; Feb. 2; Gaz. vol. 211; p. 284.
- "Natural Blouse fullness for extreme positions." (For Underwear.) Thos. Cusack Company. No. 3,925; May 25; Gaz. vol. 214; p. 1318.
- "Nedda Helper?" (For a Mechanical Bread-Mixer.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,104; Oct. 26; Gaz. vol. 219; p. 1236.
- "Needs but One Trial." (For American Family Soap.) Thos. Cusack Company. No. 3,873; Apr. 27; Gaz. vol. 213; p. 1446.
- "No Chance for an Argument." (For American Family Soap.) Thos. Cusack Company. No. 3,874; Apr. 27; Gaz. vol. 213; p. 1446.
- "No hot webbing necessary at the waist." (For Underwear.) Thos. Cusack Company. No. 3,929; May 25; Gaz. vol. 214; p. 1318.
- "Nothing to Conceal." (For Pastry and Confectionery.) M. M. Trembley. No. 4,007; July 27; Gaz. vol. 216; p. 1318.
- "Now, Now, Cool Off—Get Your B. V. D.'s On!" (For Athletic Underwear.) The B. V. D. Company. No. 3,958; June 29; Gaz. vol. 215; p. 1498.
- "Nutritious." (For Milk.) Kaufmann & Strauss Co. No. 3,814; Feb. 2; Gaz. vol. 211; p. 284.
- "Nutty Chocolates." (For Candy.) C. W. Miller. No. 3,845; Mar. 9; Gaz. vol. 212; p. 687.
- "O'Sullivan's Heels." (For Heels.) O'Sullivan Rubber Company. No. 4,013; Aug. 10; Gaz. vol. 217; p. 698.
- "O-Zell Boy." (For a Beverage.) The O-Zell Company. No. 4,034; Aug. 24; Gaz. vol. 217; p. 1340.
- "Oils that Lubricate Most." (For Oils.) Vacuum Oil Company. Nos. 4,083-5; Oct. 12; Gaz. vol. 219; p. 585.
- "Old Ben Coal." (For Coal.) Old Ben Mining Corporation. No. 3,888; Apr. 27; Gaz. vol. 213; p. 1446.
- "Old Ben Coal." (For Coal.) Old Ben Mining Corporation. No. 3,893; May 4; Gaz. vol. 214; p. 342.
- "Old Man Mileage." (For Automobile Tires and Tubes.) The Republic Rubber Company. No. 3,830; Feb. 23; Gaz. vol. 211; p. 1262.
- "Old-time jimmy-pipers rally round the P. A. Standard!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 4,042; Aug. 31; Gaz. vol. 217; p. 1659.
- "\$1 to \$6 a suit." (For Underwear.) Thos. Cusack Company. No. 3,927; May 25; Gaz. vol. 214; p. 1318.
- "Orona Cleans." (For Cleansers.) Orona Mfg. Co. No. 3,948; June 15; Gaz. vol. 215; p. 976.
- "P. A. A.n't Never Horn-swoggled Any-one Yet." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 3,851; Mar. 30; Gaz. vol. 212; p. 1688.
- "Pajama Group." (For Pajamas.) T. F. Baulig. Nos. 4,108-9; Nov. 2; Gaz. vol. 220; p. 348.
- "Panama Pacific Exposition." (For Smoking-Tobacco.) The Bloch Bros. Tobacco Co. No. 3,834; Mar. 9; Gaz. vol. 212; p. 687.
- "Perfection in Munsingwear." (For Underwear.) The Meyercoed Company. No. 3,832; Mar. 2; Gaz. vol. 212; p. 326.
- "Piedmont Cigarettes Of Quality." (For Piedmont Cigarettes.) Thos. Cusack Company. No. 3,842; Mar. 9; Gaz. vol. 212; p. 687.
- "Piel's Beers." (For Beer.) Piel Bros. No. 4,038; Aug. 31; Gaz. vol. 217; p. 1659.
- "Pipe and Fittings." (For Pipe and Fittings.) John Simmons Company. No. 3,890; Apr. 27; Gaz. vol. 213; p. 1446.
- "Plain Talk, Square Dealing, Always on the Level." (For Hardware, Tools, and Paints.) H. Offner. No. 3,855; Apr. 6; Gaz. vol. 213; p. 360.
- "Play The Game Of 'Beat-The-Heat' In B. V. D., and You'll Win." (For Athletic Underwear.) The B. V. D. Company. No. 3,937; June 8; Gaz. vol. 215; p. 665.
- "Playing Store." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,917; May 25; Gaz. vol. 214; p. 1318.
- "Polarine." (For Motor-Oil.) Standard Oil Company. No. 4,045; Aug. 31; Gaz. vol. 217; p. 1659.
- "Price Wrecker." (For Automobiles, Accessories, Tires, and Parts.) Times Square Automobile Co. No. 4,003; July 27; Gaz. vol. 216; p. 1318.
- "Pride of the Farm." (For Catsup.) E. Pritchard. No. 3,829; Feb. 23; Gaz. vol. 211; p. 1262.
- "Prince Albert hands you this line of talk." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 4,039; Aug. 31; Gaz. vol. 217; p. 1659.
- "Priscilla." (For Headwear.) The Winget Manufacturing Co. No. 4,055; Sept. 7; Gaz. vol. 218; p. 320.
- "Promote Health, Cleanliness and Beauty." (For Advertising Display.) The S. S. White Dental Manufacturing Company. No. 4,118; Nov. 2; Gaz. vol. 220; p. 348.
- "Puro Asbestos Roofing." (For Prepared Roofing.) Baltimore Roofing & Asbestos Mfg. Co. No. 4,132; Nov. 30; Gaz. vol. 220; p. 1717.
- "— put that in your pipe and smoke it." (For Smoking-Tobacco.) Thos. Cusack Company. No. 4,142; Dec. 7; Gaz. vol. 221; p. 349.
- "Real Comfort." (For Cigars.) Mayer & Lavenson Co. No. 3,988; July 13; Gaz. vol. 216; p. 662.
- "Red Feather." (For Flour.) Lexington Flouring Mills. No. 3,816; Feb. 2; Gaz. vol. 211; p. 284.
- "Red Top Flour Tops Them All." (For Flour.) Aunt Jemima Mills Company. No. 3,818; Feb. 23; Gaz. vol. 211; p. 1262.
- "Regulars Short Stouts Slim Jims." (For Underwear.) Thos. Cusack Company. No. 3,926; May 25; Gaz. vol. 214; p. 1318.
- "Rice Leaders of the World Association." (For Certain Named Goods.) E. E. Rice. No. 4,166; Dec. 28; Gaz. vol. 221; p. 1452.
- "Rip Van Winkle." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,872; Apr. 27; Gaz. vol. 213; p. 1446.
- "Ro-Tex-Co." (For Underwear.) Rome Textile Company. No. 4,043; Aug. 31; Gaz. vol. 217; p. 1659.
- "Rockinchair." (For Underwear.) Thos. Cusack Company. No. 3,923; May 25; Gaz. vol. 214; p. 1318.
- "Round Oak Doe-Wash-Jack, Stoves, Ranges, Moistair Heating Systems." (For Stoves, Ranges, and Heating Systems.) Estate of P. D. Beckwith. No. 4,148; Dec. 21; Gaz. vol. 221; p. 1037.
- "Round Oak Moistair Heating System." (For Heating Systems.) Estate P. D. Beckwith Inc. No. 3,856; Apr. 13; Gaz. vol. 213; p. 748.
- "S. S. White Tooth Pastes." (For Tooth-Pastes.) The S. S. White Dental Manufacturing Co. No. 3,833; Mar. 2; Gaz. vol. 212; p. 326.
- "Sampson." (For Key Hook and Rings Combined.) H. A. Grammes. No. 4,158; Dec. 28; Gaz. vol. 221; p. 1452.
- "Sanitary Milk Bottle Lock." (For Milk-Bottle Locks.) Sanitary Milk Bottle Lock Co. No. 4,056; Sept. 14; Gaz. vol. 218; p. 601.
- "Santa Claus' Letter." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 4,157; Dec. 28; Gaz. vol. 221; p. 1452.
- "Save Your Wrappers. They are Valuable." (For American Family Soap.) Thos. Cusack Company. No. 3,878; Apr. 27; Gaz. vol. 213; p. 1446.
- "Savings Department Chas. Blum Company, Inc." (For Wines and Liquors.) Chas. Blum Company. No. 4,133; Nov. 30; Gaz. vol. 220; p. 1717.
- "Say 'Cream Of Wheat, You Rascal!'" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,804; Feb. 2; Gaz. vol. 211; p. 284.
- "Scott, The Ice Cream Man." (For Ice-Cream.) H. L. Scott. No. 4,116; Nov. 2; Gaz. vol. 220; p. 348.
- "Self Condensing Steam Turbine." (For Steam-Turbines and Parts Thereof.) W. J. H. Strong. No. 3,831; Feb. 23; Gaz. vol. 211; p. 1262.
- "Sellers' Goldine Hair Tonic." (For a Hair-Tonic.) E. J. Sellers. No. 4,035; Aug. 24; Gaz. vol. 217; p. 1340.
- "Shipwrecked! on the angry deep, while the wind and waves did roar; I Found a Cake of — Soap and washed myself ashore." (For Soap.) P. J. Madigan. No. 4,033; Aug. 24; Gaz. vol. 217; p. 1340.
- "Shredded Wheat, Strawberries and Cream." (For Shredded Wheat.) The Shredded Wheat Company. No. 4,011; Aug. 3; Gaz. vol. 217; p. 338.
- "Smoky and Dangerous." (For an Electric Heater.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,154; Dec. 28; Gaz. vol. 221; p. 1452.
- "Some Nap!" (For Sleeping-Suits.) The B. V. D. Company. No. 3,908; May 18; Gaz. vol. 214; p. 1024.
- "Sullivan's Relief Shu For Tender Feet." (For Shoes.) P. Sullivan & Co. No. 4,002; July 27; Gaz. vol. 216; p. 1318.
- "Summer's 'Rule of Three.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,965; June 29; Gaz. vol. 215; p. 1498.
- "Sunseri Brand." (For Olive-Oil.) P. Sunseri. No. 4,036; Aug. 24; Gaz. vol. 217; p. 1340.
- "Superiora." (For Magnolia-Leaves.) Dr. H. Dux & Bros. No. 4,095; Oct. 19; Gaz. vol. 219; p. 928.
- "Tailored Union Suits." (For Underwear.) Thos. Cusack Company. No. 3,924; May 25; Gaz. vol. 214; p. 1318.
- "Taking The Work Out of Washing." (For Electric Washing-Machines.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,093; Oct. 19; Gaz. vol. 219; p. 928.
- "That Easy-Breezy B. V. D. Feeling." (For Athletic Underwear.) The B. V. D. Company. No. 3,959; June 29; Gaz. vol. 215; p. 1498.
- "That Easy-Breezy B. V. D. Feeling." (For Athletic Underwear.) The B. V. D. Company. No. 3,970; June 29; Gaz. vol. 215; p. 1498.
- "That's Your Friend, The B. V. D. Label, Boys!" (For Athletic Underwear.) The B. V. D. Company. No. 3,936; June 8; Gaz. vol. 215; p. 665.

- "The Bottom Nutritious." (For Pastry.) M. M. Trembley. No. 4,006; July 27; Gaz. vol. 216; p. 1318.
- "The Canvas Tread Tire." (For Canvas-Tread Tires.) D. B. Smith. No. 3,806; Feb. 2; Gaz. vol. 211; p. 284.
- "The 'Century' Breathing Tube." (For a Lung-Developer.) J. Donoghue. No. 4,015; Aug. 17; Gaz. vol. 217; p. 1053.
- "The Cold Weather Motor Oil." (For Motor-Oil.) Standard Oil Company. No. 4,046; Aug. 31; Gaz. vol. 217; p. 1659.
- "The Colossus of Roads." (For Rubber Tires.) The Firestone Tire & Rubber Company. No. 3,946; June 15; Gaz. vol. 215; p. 976.
- "The Cotter with the Point Facilitates Insertion." (For Cotters.) The Wire Goods Company. No. 4,057; Sept. 14; Gaz. vol. 218; p. 601.
- "The Dream." (For Cigars.) Mayer & Lavenson Co. No. 3,991; July 13; Gaz. vol. 216; p. 662.
- "The Emerson Shoe." (For Shoes.) Emerson Shoe Co. Nos. 4,126-7; Nov. 16; Gaz. vol. 220; p. 1041.
- "The Farmer Supports The World." (For Hides, Pelts, Wool, and Fur.) Powell Hide & Fur Company. No. 4,150; Dec. 21; Gaz. vol. 221; p. 1037.
- "The Indian." (For Motor-Cycles.) The Hendee Mfg. Co. No. 3,913; May 18; Gaz. vol. 214; p. 1024.
- "The 'Inspiration Dress.'" (For Dresses.) Goldberg-Goldschmidt Costume Co. No. 3,860; Apr. 13; Gaz. vol. 213; p. 748.
- "The Iron Cross Cigar, Palmer E. Vogel." (For Cigars.) P. E. Vogel. No. 3,864; Apr. 13; Gaz. vol. 213; p. 748.
- "The Latest White Four-Forty-Five Landaulet-Limousine." (For Landaulet-Limousines.) The White Company. No. 3,895; May 4; Gaz. vol. 214; p. 342.
- "The Latest White Four-Forty-Five Touring." (For White Touring Cars.) The White Company. No. 3,867; Apr. 13; Gaz. vol. 213; p. 748.
- "The Latest White Four-Thirty Touring." (For Touring-Cars.) The White Company. No. 3,894; May 4; Gaz. vol. 214; p. 342.
- "The Latest White Four-Thirty Town Car." (For White Town-Cars.) The White Company. No. 3,868; Apr. 13; Gaz. vol. 213; p. 748.
- "The Latest White Six-Sixty Limousine." (For White Limousine-Cars.) The White Company. No. 3,866; Apr. 13; Gaz. vol. 213; p. 748.
- "The Latest White 'Six-Sixty Touring.'" (For White Touring-Cars.) The White Company. No. 3,869; Apr. 13; Gaz. vol. 213; p. 748.
- "The Leader because 'Every bite tastes right.'" (For Chewing-Tobacco.) R. J. Reynolds Tobacco Company. No. 3,887; Apr. 27; Gaz. vol. 213; p. 1446.
- "The Lovera Girl." (For Cigars.) José Lovera Company. No. 3,798; Jan. 12; Gaz. vol. 210; p. 716.
- "The Magic of Efficiency." (For an Electric Iron.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,072; Oct. 5; Gaz. vol. 219; p. 268.
- "The Nations Food." (For Shredded Wheat.) The Shredded Wheat Company. No. 4,010; Aug. 3; Gaz. vol. 217; p. 338.
- "The New Science of Shaving." (For Shaving-Cream.) The G. Mennen Chemical Company. No. 3,973; June 29; Gaz. vol. 215; p. 1498.
- "The Old Way." (For an Electric Heating-Pad.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,156; Dec. 28; Gaz. vol. 221; p. 1452.
- "The Only Girl." (For Cigars.) Mayer & Lavenson Co. No. 3,986; July 13; Gaz. vol. 216; p. 662.
- "The Ordeal." (For a Gas Water-Heater.) Consolidated Gas, Electric Light and Power Company of Baltimore. No. 4,091; Oct. 19; Gaz. vol. 219; p. 928.
- "The Oriole Heater." (For a Gas Water-Heater.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,074; Oct. 5; Gaz. vol. 219; p. 268.
- "The Paste of Good Taste." (For Tooth-Paste.) New England Laboratory Co. No. 4,001; July 27; Gaz. vol. 216; p. 1318.
- "The Penetrating Test." (For Cake, Candies, Fruits, Jellies, Ice-Cream, Liquids, Fabrics, Lumber, Paper, and Pigments.) M. M. Trembley. No. 4,047; Aug. 31; Gaz. vol. 217; p. 1659.
- "The Rice Leaders of the World Association." (For Certain Specified Articles of Manufacture.) E. E. Rice. No. 3,847; Mar. 16; Gaz. vol. 212; p. 1056.
- "The Safe-Cabinet." (For Safe-Cabinets and Steel Furniture.) The Safe-Cabinet Co. Nos. 4,069-70; Sept. 28; Gaz. vol. 218; p. 1154.
- "The Summer 'Rule of Three.'" (For Athletic Underwear.) The B. V. D. Company. No. 3,969; June 29; Gaz. vol. 215; p. 1498.
- "The Sweater Shop." (For Sweater-Garments.) J. A. West. No. 3,916; May 18; Gaz. vol. 214; p. 1024.
- "They Doctor Themselves." (For Stock Remedies.) The Feil Manufacturing Company. No. 4,024; Aug. 24; Gaz. vol. 217; p. 1340.
- "This is the Life." (For Smoking-Tobacco.) Falk Tobacco Co. No. 3,821; Feb. 23; Gaz. vol. 211; p. 1262.
- "This Man Feels Fine." (For Athletic Underwear.) The B. V. D. Company. No. 3,911; May 18; Gaz. vol. 214; p. 1024.
- "To Green River." (For Whisky.) E. La Montagne's Sons. No. 3,915; May 18; Gaz. vol. 214; p. 1024.
- "Tonight's the Night." (For Sleeping-Suits.) The B. V. D. Company. No. 3,906; May 18; Gaz. vol. 214; p. 1024.
- "Try it and you'll buy it." (For Margarin.) Thos. Cusack Company. No. 4,012; Aug. 10; Gaz. vol. 217; p. 698.
- "Turbo Compressors and Blowers." (For Turbo-Compressors and Steam-Turbines.) Ingersoll-Rand Company. No. 3,813; Feb. 2; Gaz. vol. 211; p. 284.
- "Two Magicians." (For an Electric Iron.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,105; Oct. 26; Gaz. vol. 219; p. 1236.
- "Under daily Government Inspection!" (For Margarin.) Thos. Cusack Company. No. 3,858; Apr. 13; Gaz. vol. 213; p. 748.
- "Unfit Petticoat is a Tru-Fit." (For Petticoats.) Pestcoe Brothers & Company. No. 3,799; Jan. 12; Gaz. vol. 210; p. 716.
- "Use Abbotts 'A' Milk." (For Milk.) Abbotts Alderney Dairies. No. 3,803; Feb. 2; Gaz. vol. 211; p. 284.
- "Valentine's Valspar—The Varnish that won't turn white." (For Valentine's Valspar.) Valentine & Company. No. 3,846; Mar. 9; Gaz. vol. 212; p. 687.
- "Veedol." (For Veedol.) Platt & Washburn Refining Company. No. 3,903; May 11; Gaz. vol. 214; p. 682.
- "Veedol Lubrication Chart." (For Veedol.) Platt & Washburn Refining Company. No. 3,828; Feb. 23; Gaz. vol. 211; p. 1262.
- "Very Effective with Cold Water." (For American Family Soap.) Thos. Cusack Company. No. 3,881; Apr. 27; Gaz. vol. 213; p. 1446.
- "Vesper Light." (For Candles.) F. Marty & Co. No. 3,827; Feb. 23; Gaz. vol. 211; p. 1262.
- "Ward Baking Company's Housekeepers Coupon." (For Bread.) Ward Baking Company. Nos. 4,139-40; Nov. 30; Gaz. vol. 220; p. 1717.
- "Weatherproofing." (For Calking-Paste.) Weatherproof Calking Company. No. 3,997; July 13; Gaz. vol. 216; p. 662.
- "Weisel's Superior Sausage Of Unequalled Quality and Purity." (For Sausages.) C. Weisel. No. 3,801; Jan. 12; Gaz. vol. 210; p. 716.
- "Welch's—The National Drink." (For Unfermented Grape-Juice.) The Welch Grape Juice Company. No. 3,819; Feb. 23; Gaz. vol. 211; p. 1262.
- "Welch's—The National Drink.'" (For Welch's Grape-Juice.) The Welch Grape Juice Company. No. 3,865; Apr. 13; Gaz. vol. 213; p. 748.
- "Welcome To Camp B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 3,938; June 8; Gaz. vol. 215; p. 665.
- "Well Lathered is Half Shaved." (For Shaving-Cream.) The G. Mennen Chemical Company. No. 3,972; June 29; Gaz. vol. 215; p. 1498.
- "Well, You're Helping Some!" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,820; Feb. 23; Gaz. vol. 211; p. 1262.
- "Wenatchee Belle Brand Apples." (For Apples.) H. C. Austin. No. 4,131; Nov. 23; Gaz. vol. 220; p. 1372.
- "What do you charge for board, Sir?" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 3,853; Apr. 6; Gaz. vol. 213; p. 360.
- "Whitman's Sampler." (For Candies.) Stephen F. Whitman & Son. No. 3,802; Jan. 12; Gaz. vol. 210; p. 716.
- "Wholesome from the bottom up." (For Bread.) M. M. Trembley. No. 4,018; Aug. 17; Gaz. vol. 217; p. 1053.
- "Why are they sold in every Club and Hotel?" (For Cigarettes.) Thos. Cusack Company. No. 4,061; Sept. 21; Gaz. vol. 218; p. 874.
- "Why be a Dish Washer?" (For an Electric Dish-Washing Machine.) Consolidated Gas, Electric Light & Power Company of Baltimore. No. 4,101; Oct. 26; Gaz. vol. 219; p. 1236.
- "Winner for Nine Seasons." (For Hosiery.) Interwoven Stocking Company. No. 3,979; July 6; Gaz. vol. 216; p. 326.
- "'Workmanship'—hand workmanship counts heavily in a cigar." (For Cigars.) Thos. Cusack Company. No. 3,836; Mar. 9; Gaz. vol. 212; p. 687.
- "Yellow Strand." (For Wire Rope and Cables.) Broderick & Bascom Rope Company. No. 3,848; Mar. 30; Gaz. vol. 212; p. 1688.
- "Yes, Bud! I've Switched to Pure Gold." (For Tobacco.) Thos. Cusack Company. No. 4,125; Nov. 16; Gaz. vol. 220; p. 1041.
- "You can easily tell." (For Hosiery.) Interwoven Stocking Company. No. 3,981; July 6; Gaz. vol. 216; p. 326.
- "You Can't Be Too Careful, Sir—Here's The B. V. D. Label." (For Athletic Underwear.) The B. V. D. Company. No. 3,935; June 8; Gaz. vol. 215; p. 665.
- "You Rascal, It's B. V. D. That Keeps You Cool!" (For Athletic Underwear.) The B. V. D. Company. No. 3,934; June 8; Gaz. vol. 215; p. 665.
- "You'll Freeze Fast to P. A." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 4,041; Aug. 31; Gaz. vol. 217; p. 1659.

Alphabetical list of labels—Continued.

"Young America Brand." (For Boys' Blouses, Shirts, Pajamas, and Night-Robes.) The Wood-Wilson Company. No. 3,896; May 4; Gaz. vol. 214; p. 342.

"Your furniture and woodwork seem to have new beauties when you use O-Cedar Polish." (For O-Cedar Polish.) Channell Chemical Company. No. 4,119; Nov. 9; Gaz. vol. 220; p. 676.

"Your Ideal Bed is Realized." (For a Tuftless Mattress.) Sears, Roebuck and Co. No. 4,115; Nov. 2; Gaz. vol. 220; p. 348.

"Zanzibar Paint." (For Paint.) The Globe Paint Company. No. 4,062; Sept. 21; Gaz. vol. 218; p. 874.

"Zel' Kept Teeth—Well Kept Health." (For Toothbrushes.) Holton & Adams. No. 3,825; Feb. 23; Gaz. vol. 211; p. 1262.

DISCLAIMERS.

Automobile. W. L. Miggett. No. 1,005,863; date of patent Oct. 17, 1911; disclaimer filed Dec. 11, 1915; Gaz. vol. 221; p. 1043.

Caisson. D. E. Moran. No. 759,388; date of patent May 10, 1904; disclaimer filed Jan. 19, 1915; Gaz. vol. 210; p. 1400.

Caisson. D. E. Moran. No. 759,389; date of patent May 10, 1904; disclaimer filed Jan. 19, 1915; Gaz. vol. 210; p. 1400.

Caisson. D. E. Moran and J. W. Doty. No. 828,761; date of patent Aug. 14, 1906; disclaimer filed Jan. 19, 1915; Gaz. vol. 210; p. 1400.

Dust, Apparatus for removing. D. T. Kenny. No. 847,947; date of patent Mar. 19, 1907; disclaimer filed Nov. 19, 1915; Gaz. vol. 221; p. 1.

Electric currents into continuous currents, Instrument for converting alternating. J. A. Fleming. No. 803,684; date of patent Nov. 7, 1905; disclaimer filed Nov. 17, 1915; Gaz. vol. 220; p. 1047.

Eyeglasses. L. F. Add. No. 991,766; date of patent May 9, 1911; disclaimer filed July 3, 1915; Gaz. vol. 216; p. 333.

Form, Dress-. W. Enoch. No. 1,116,047; date of patent Nov. 3, 1914; disclaimer filed Mar. 12, 1915; Gaz. vol. 212; p. 1360.

Hinges, Alining-plate for floor-. O. Katzenberger. No. 1,037,149; date of patent Aug. 27, 1912; disclaimer filed Oct. 6, 1915; Gaz. vol. 219; p. 591.

Hoisting apparatus. A. E. Norris. No. 1,071,010; date of patent Aug. 19, 1913; disclaimer filed Nov. 18, 1915; Gaz. vol. 221; p. 742.

Incubator-heating system. C. S. Bryant. (Reissue.) No. 13,515; date of patent Jan. 21, 1913; disclaimer filed Sept. 28, 1915; Gaz. vol. 219; p. 274.

Jolt ramming-machine. E. H. Mumford. No. 1,105,821; date of patent Aug. 4, 1914; disclaimer filed Dec. 29, 1914; Gaz. vol. 210; p. 1.

Loom warp stop-motion. J. Coldwell and C. G. Gildard. No. 11,923, (reissue); date of patent July 30, 1901; disclaimer filed Jan. 19, 1905; Gaz. vol. 210; p. 1400.

Peanut-picker. T. M. Lilliston. (Reissue.) No. 13,717; date of patent Apr. 21, 1914; disclaimer filed Jan. 27, 1915; Gaz. vol. 211; p. 958.

Poultry exerciser and feeder. J. M. Foster. No. 1,108,566; date of patent Aug. 25, 1914; disclaimer filed Feb. 6, 1915; Gaz. vol. 211; p. 958.

Presses, Safety attachment for. T. A. Dicks and W. A. Warman. No. 618,065; date of patent Jan. 24, 1899; disclaimer filed July 6, 1915; Gaz. vol. 216; p. 333.

Ringin- key, Party - line. A. J. Carter. No. 1,099,164; date of patent June 9, 1914; disclaimer filed Jan. 20, 1915; Gaz. vol. 210; p. 1400.

Sheet-metal structures, Uniting the component parts of composite. A. F. Rietzel. No. 928,701; date of patent July 20, 1909; disclaimer filed June 12, 1915; Gaz. vol. 215; p. 1265.

Signalling apparatus, Wireless. J. L. Hogan, Jr. No. 1,014,002; date of patent Jan. 9, 1912; disclaimer filed Mar. 23, 1915; Gaz. vol. 212; p. 1692.

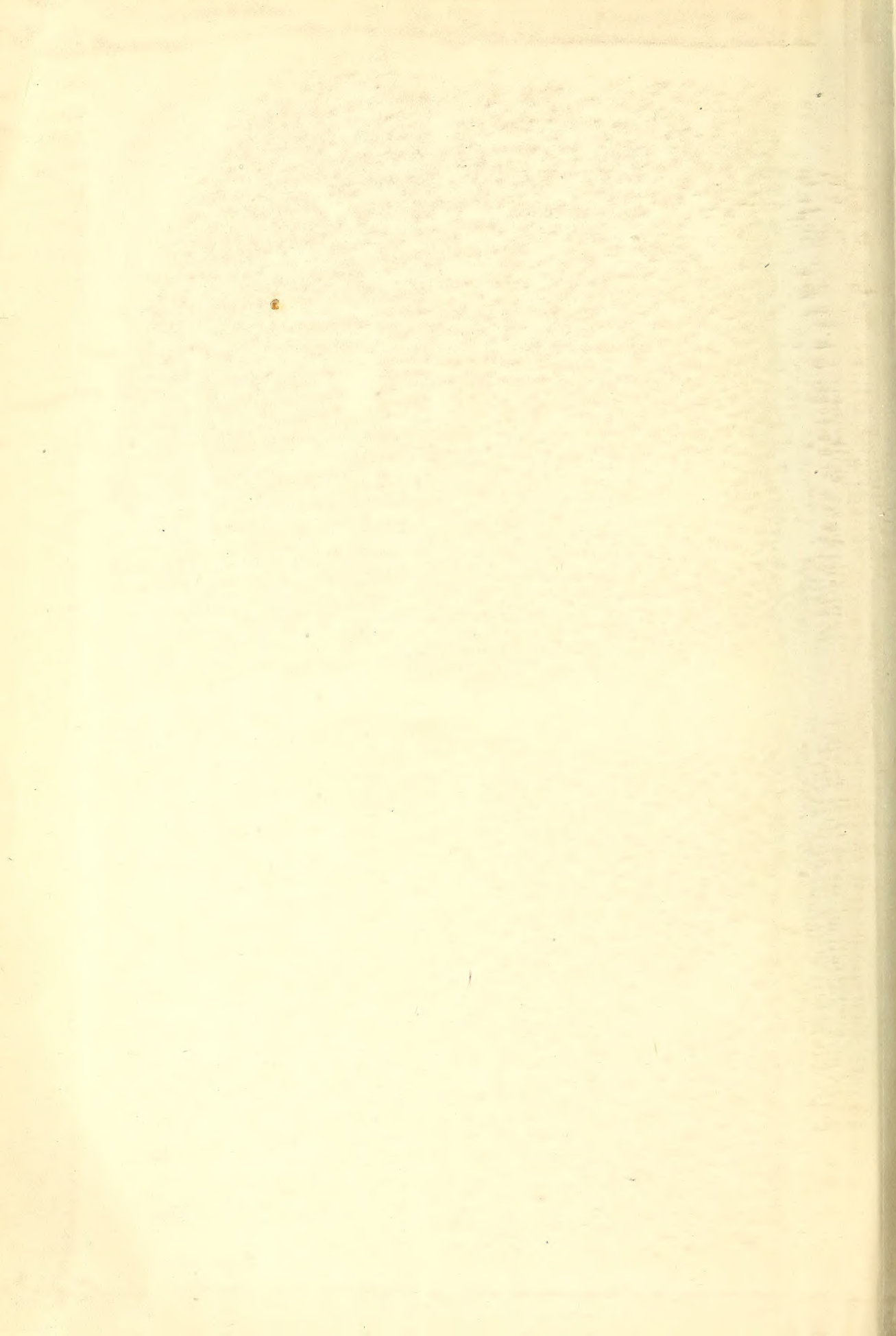
Signaling device. R. H. Manson. No. 1,016,699; date of patent Feb. 6, 1912; disclaimer filed Dec. 10, 1915; Gaz. vol. 221; p. 1043.

Signature-handling mechanism. E. R. Kast. No. 1,083,617; date of patent Jan. 6, 1914; disclaimer filed Apr. 28, 1915; Gaz. vol. 214; p. 346.

Storage battery. T. A. Willard. No. 1,151,077; date of patent Aug. 24, 1915; disclaimer filed Nov. 3, 1915; Gaz. vol. 220; p. 355.

Telephone system. H. G. Webster. No. 931,904; date of patent Aug. 24, 1909; disclaimer filed Mar. 8, 1915; Gaz. vol. 212; p. 693.

Typographical machine. D. S. Kennedy. No. 1,091,347; date of patent Mar. 24, 1914; disclaimer filed June 28, 1915; Gaz. vol. 216; p. 1.



SMITHSONIAN INSTITUTION LIBRARIES



3 9088 01585 3021